GRE

APRIL 2021

PROJECT ID: 1146-75-71

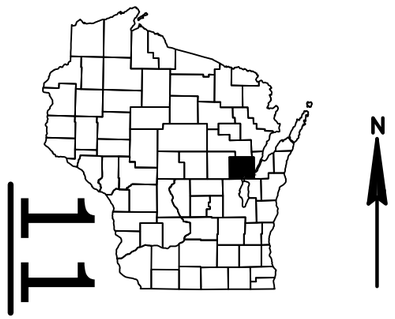
WITH:

COUNTY: OUTAGAMIE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 676



DESIGN DESIGNATION

A.A.D.T.	(2019)	= 12,200
A.A.D.T.	(2044)	= 21,600
D.H.V.		= 2,550
D.D.		= 62-38
T.		= 5.2%
DESIGN SPEED		= 60 MPH
ESALS		= 2,620,700

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STH 76 - NEW LONDON

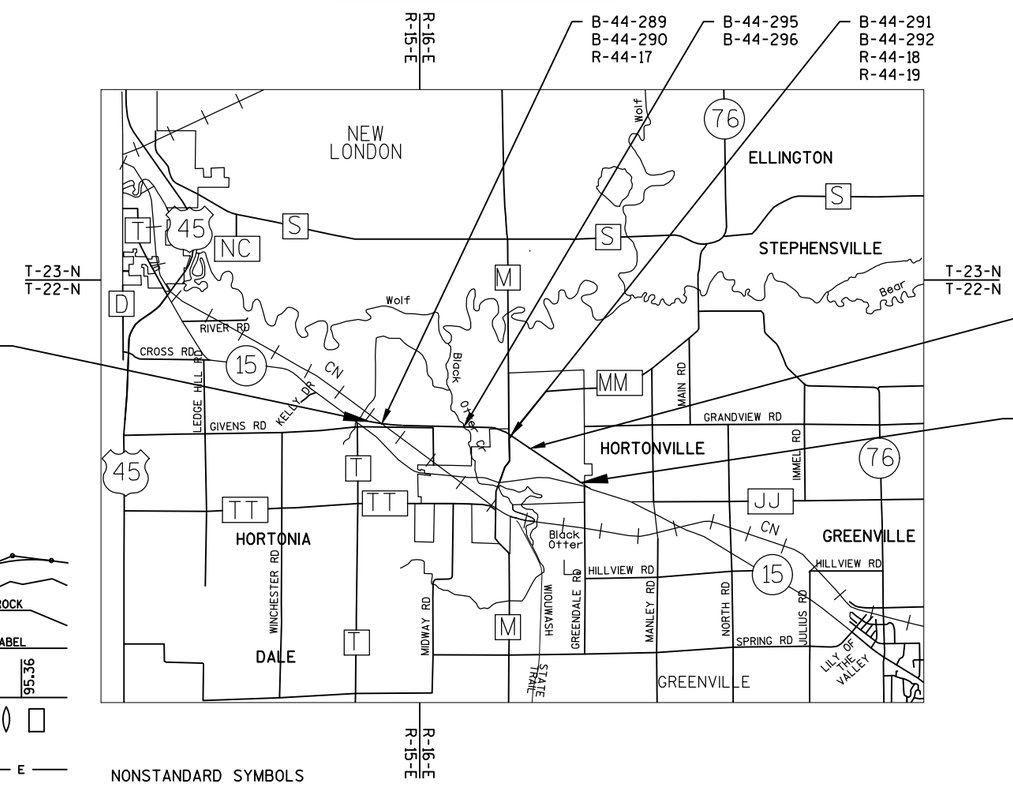
WI CENTRAL RR - CTH JJ

STH 15

OUTAGAMIE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1146-75-71	WISC 2021264	1

STATE PROJECT NUMBER
1146-75-71



BEGIN PROJECT
PROJ ID: 1146-75-71
STA 275'EB'+00
Y=593541.1463
X=757772.3720

B-44-293
B-44-294
R-44-20
R-44-21

END PROJECT
PROJ. ID: 1146-75-71
STA 465'EB'+00

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

NONSTANDARD SYMBOLS

- DRIVEWAY TO BE REMOVED (X)
- PROPOSED RELOCATION
- RETAINING WALL
- DITCH
- MEDIAN DRAIN/OUTFALL

LAYOUT SCALE 0 2 MILE

TOTAL NET LENGTH OF CENTERLINE = 3.598

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, OUTAGAMIE COUNTY, NAD83 (2007) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAN.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) 88 (2007).

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT NORTHEAST REGION
Designer	MASON SIMMONS
Project Manager	WILLIAM BERTRAND
Regional Examiner	XXX
Regional Supervisor	TAMMY RABE

APPROVED FOR THE DEPARTMENT

DATE: 1-27-2021 William R Bertrand (Signature)

E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_010101_TI.DWG
LAYOUT NAME - 010101_TI

PLOT DATE : 1/22/2020 7:36 AM

PLOT BY : SIMMONS, MASON A PLOT NAME :

UTILITIES

AT&T WISCONSIN - COMMUNICATIONS
JOE KASSAB
205 S JEFFERSON ST
GREEN BAY, WI 54301
(920) 433-4200
JK572K@ATT.COM

CHARTER COMMUNICATIONS
RUDI RUDIGER
5024 HEFFRON STREET
STEVENS POINT, WI 54481
(715) 302-1550
RUDI.RUDIGER@CHARTER.COM

HORTONVILLE AREA SCHOOLS
BEN DUMKE
246 NORTH OLK STREET
HORTONVILLE, WI 54944
(920) 799-7900
BENDUMKE@HASD.ORG

VILLAGE OF HORTONVILLE
PUBLIC WORKS - SEWER & WATER
RYAN ST. JOHN
531 N NASH STREET
HORTONVILLE, WI 54944
(920) 819-1749
WWPT@VOHORTONVILLE.COM

WE ENERGIES-ELECTRIC
CHRISTOPHER SCHULZ
800 SOUTH LYNNDALE DRIVE
APPLETON, WI 54914
(414) 944-5553 (O)
(414) 588-0455 (M)
CHRIS.SCHULZ@WE-ENERGIES.COM

WE ENERGIES-GAS/PETROLEUM
CODY BECKMAN
800 SOUTH LYNNDALE DRIVE
APPLETON, WI 54914
(920) 380-3422 (O)
(920) 428-1038 (M)
CODY.BECKMAN@WE-ENERGIES.COM

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

GENERAL NOTES

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO NAVD 88 (2007)

COORDINATES SHOWN ON THE PLAN ARE REFERENCED TO NAD 83 (2007).

CURVE DATA IS BASED ON ARC DEFINITION.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND ALL UTILITIES IN THE VICINITY OF THE PROJECT TO LOCATE THEIR FACILITIES AT LEAST THREE WORKING DAYS PRIOR TO BEGINNING WORK.
ANY UTILITY WHICH IS NOT A MEMBER OF DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

IN PERFORMANCE OF THE WORK UNDER THE ITEM "REMOVING FENCE", THE FENCE SHALL BE REMOVED TO A PULL OR STRETCHER POST ASSEMBLY AS DETERMINED IN THE FIELD BY THE ENGINEER.

EXPANSION JOINTS TO BE CONSTRUCTED AT ALL RADIUS POINTS IN CURB AND GUTTER OR AT LOCATIONS SHOWN ON THE PLAN.

THE LOCATION OF EXISTING MANHOLES AS SHOWN ON THE PLANS IS APPROXIMATE.

EXISTING DRAINAGE DITCHES AND CULVERT PIPES WILL REMAIN FUNCTIONAL DURING EXCAVATION OPERATIONS.-INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE FIRST SECTION OF ALL REINFORCED CONCRETE CULVERT PIPE EXTENSIONS SHALL BE CONSTRUCTED TO MATCH THE EXISTING CULVERT PIPE OR OTHER CONNECTIONS MAY BE USED WITH THE APPROVAL OF THE ENGINEER.

THE EXACT LOCATION OF ACCESS POINTS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER, EXCEPT FOR CONTROLLED LOCATIONS SHOWN ON THE PLAT.

ORDER OF SECTION 2 SHEETS

-GENERAL NOTES
-PROJECT OVERVIEW
-TYPICAL SECTIONS
-CONSTRUCTION DETAILS
-INTERSECTION DETAILS
-PLAN DETAILS
-EROSION CONTROL
-STORM SEWER PLAN
-LANDSCAPING
-PERMANENT SIGNING
-PAVEMENT MARKING
-TRAFFIC CONTROL
-STAGE CONSTRUCTION
-FENCING
-ALIGNMENT

DNR AREA LIAISON

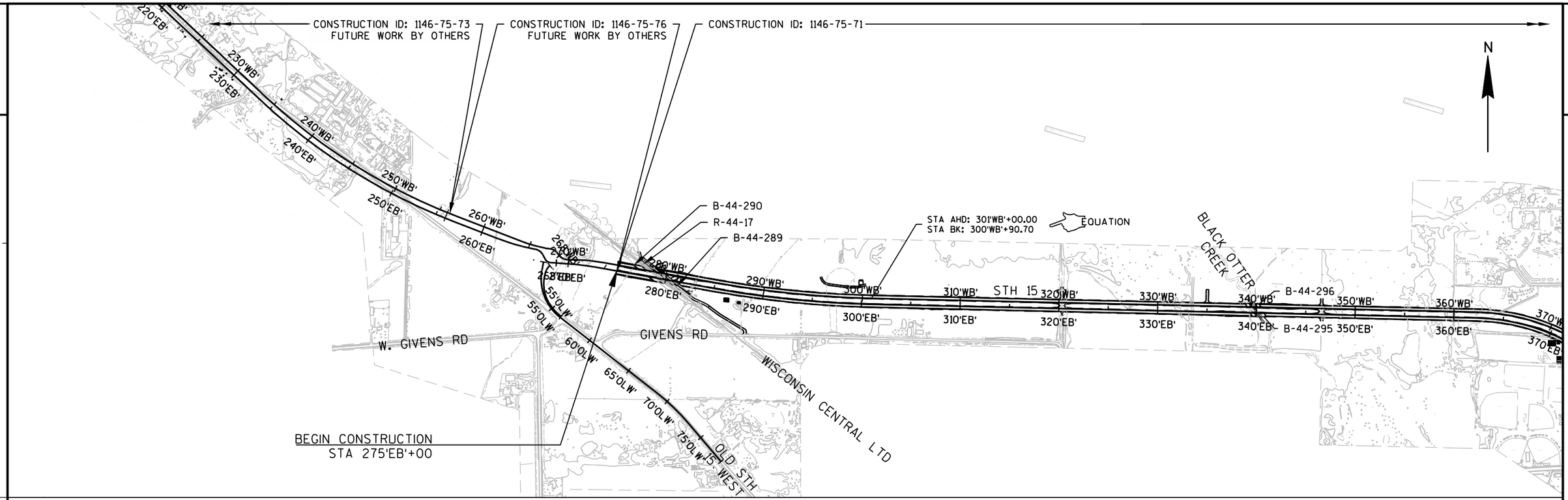
MATTHEW SCHAEVE
DEPARTMENT OF NATURAL RESOURCES
2984 SHAWANO AVE
GREEN BAY, WI 54303
PHONE: 920-662-5472
EMAIL: MATTHEW.SCHAEVE@WISCONSIN.GOV

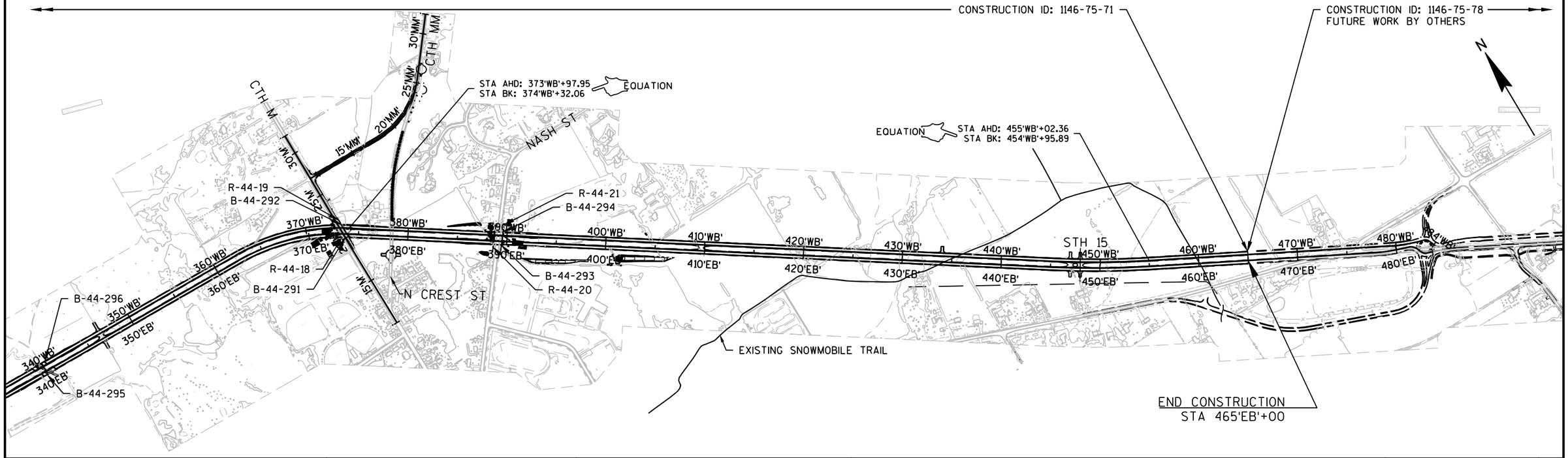
COUNTY SURVEYOR OR SURVEYS CONTACT PERSON

CORMAC MCINNIS
944 VANDERPERREN WAY
GREEN BAY, WI 54304
PHONE: 920 492-5638
EMAIL: CORMAC.MCINNIS@DOT.WI.GOV

STANDARD ABBREVIATIONS

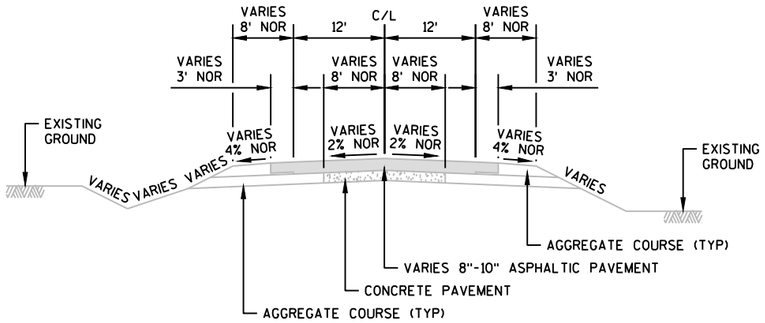
ADT	AVERAGE DAILY TRAFFIC
AEW	APRON ENDWALL
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
C&G	CURB AND GUTTER
C-C	CENTER TO CENTER
CPCM	CULVERT PIPE CORRUGATED METAL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CSD	CONCRETE SURFACE DRAIN
CTR	CENTER
CWT	HUNDRED WEIGHT
CY	CUBIC YARD
D	DEGREE OF CURVE
Δ	DELTA
DD	DIRECTIONAL DISTRIBUTION
DHV	DESIGN HOUR VOLUME
DIA OR Ø	DIAMETER
EL OR ELEV	ELEVATION
FS	FULL SUPERELEVATION
FT	FOOT
HE	HIGHWAY EASEMENT
HMA	HOT MIX ASPHALT
INCID	INCIDENTAL
INL	INLET
L	LENGTH OF CURVE
LF	LINEAR FOOT
LONG	LONGITUDINAL
LT	LEFT
MH	MANHOLE
ML OR M/L	MATCH LINE
NC	NORMAL CROWN
NTS	NOT TO SCALE
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
R/L	REFERENCE LINE
RO	RUN OFF LENGTH
RT	RIGHT
RW OR R/W	RIGHT OF WAY
SDD	STANDARD DETAIL DRAWINGS
SS	STORM SEWER
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STA	STATION
SY	SQUARE YARD
SYM	SYMMETRICAL
T	TANGENT LENGTH
TEMP	TEMPORARY
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
V	VELOCITY OR DESIGN SPEED
VAR	VARIABLE OR VARIES
WM	WATER MAIN
YD	YARD





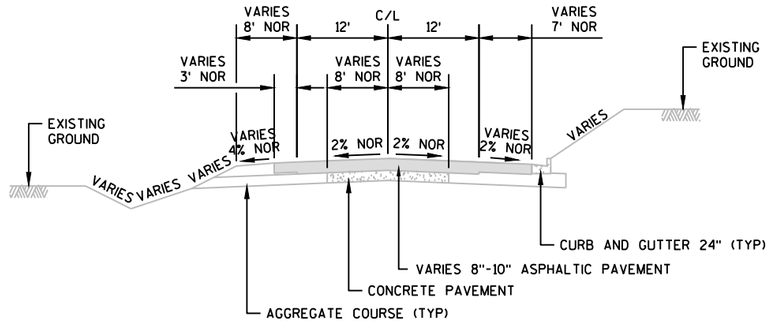
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_020201_PO.DWG
11467571_PLAN - 020201-PO
PLOT DATE : 1/22/2020 7:37 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:1000 FT
WISDOT/CADDS SHEET 42



EXISTING TYPICAL SECTION
STH 15

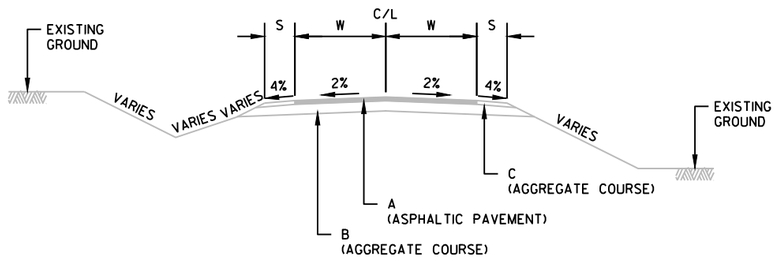
STA 219+50 TO STA 266+57
STA 50+00 TO STA 69+50 (OLD STH 15 WEST ALIGNMENT)



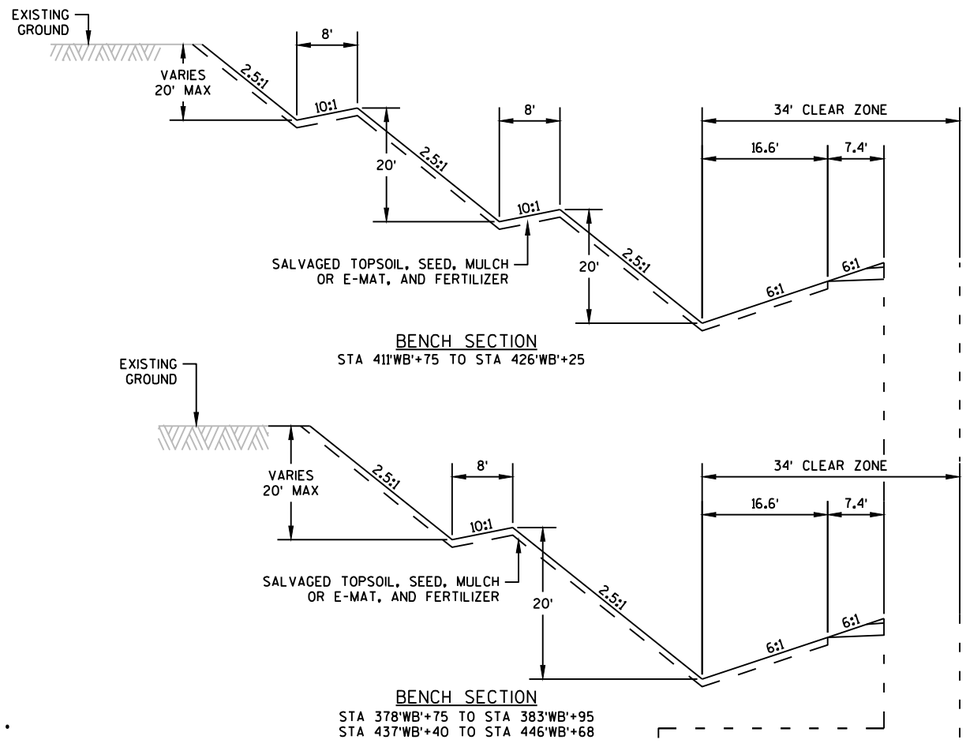
EXISTING TYPICAL SECTION
CTH M

STA 18'M'+62.80 TO STA 19'M'+46

LOCAL ROADS					
ROAD	PAVEMENT		AGGREGATE SHOULDER		BASE
	WIDTH (W)	THICKNESS (A)	WIDTH (S)	THICKNESS (C)	THICKNESS (B)
CTH M	17'	4"	3'	4"	5"
CTH MM / N. CREST ST	13'	4"	2'	4"	5"

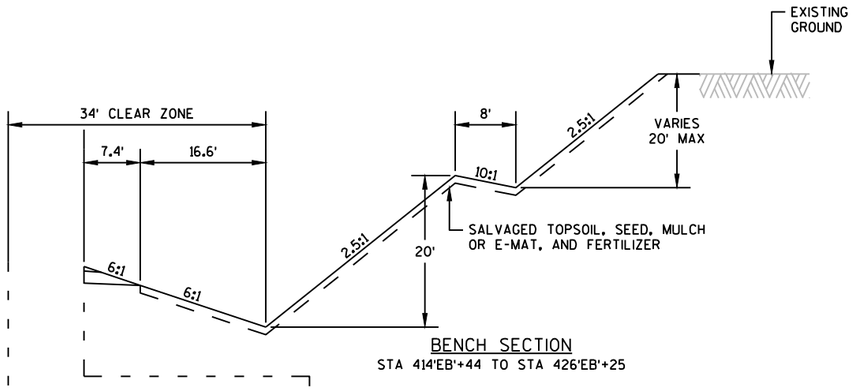


EXISTING TYPICAL SECTION
LOCAL ROADS - SEE TABLE

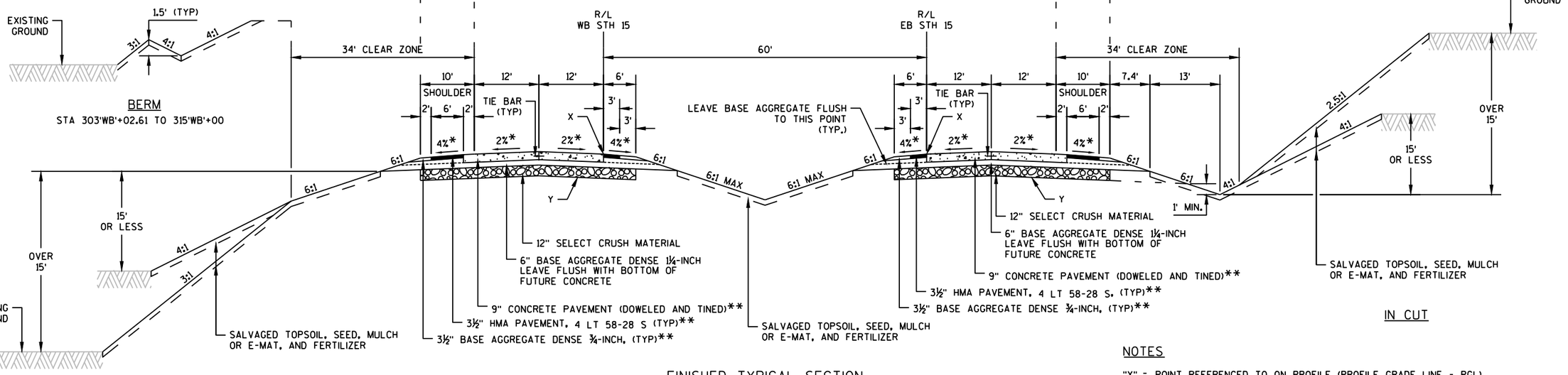


BENCH SECTION
STA 411'WB'+75 TO STA 426'WB'+25

BENCH SECTION
STA 378'WB'+75 TO STA 383'WB'+95
STA 437'WB'+40 TO STA 446'WB'+68



BENCH SECTION
STA 414'EB'+44 TO STA 426'EB'+25



IN FILL

IN CUT

FINISHED TYPICAL SECTION
STH 15

WEST BOUND
STA 275'WB'+00 TO 465'WB'+00

EAST BOUND
STA 275'EB'+00 TO 465'EB'+00

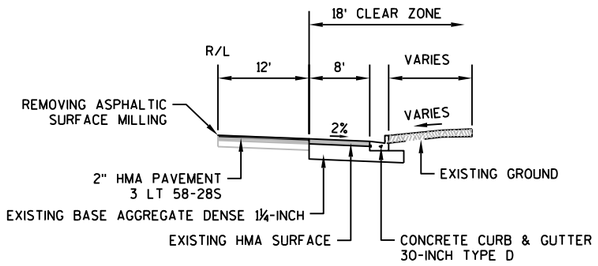
NOTES

"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)
"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS
* CROSS SLOPE VARIES DUE TO SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)
** WORK DONE BY OTHERS, STH 15 PAVEMENT ITEMS SHOWN FOR INFORMATION ONLY

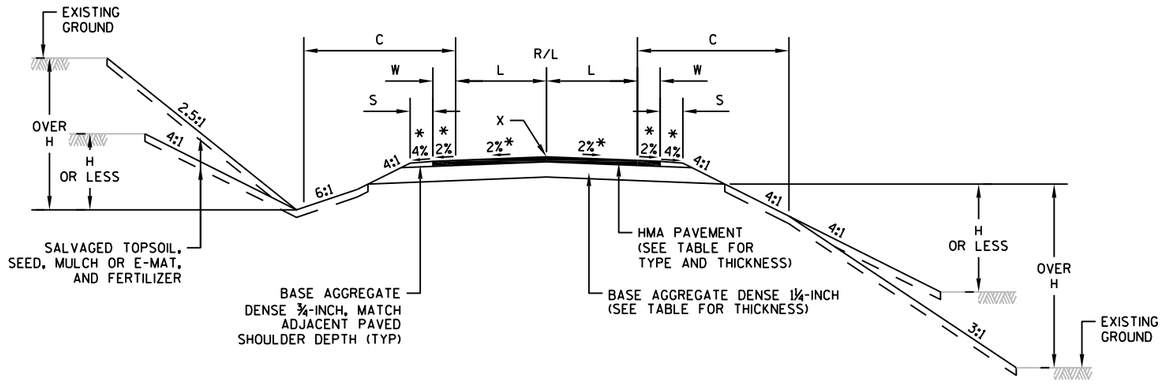
PROJECT NO: 114675-71	HWY: STH 15	COUNTY: OUTAGAMIE	TYPICAL SECTIONS - STH 15	SHEET 5	E

LOCAL ROADS

ROAD	PAVEMENT		AGGREGATE SHOULDER	CLEAR ZONE	SIDE SLOPE	PAVEMENT STRUCTURE				HMA PAVEMENT LAYER THICKNESS	
	LANE WIDTH (L)	SHOULDER WIDTH (W)	WIDTH (S)	WIDTH (C)	HEIGHT (H)	HMA TYPE	HMA THICKNESS	B.A.D. 1¼-INCH THICKNESS	SELECT CRUSH MATERIAL THICKNESS	UPPER LAYER	LOWER LAYER
CTH MM	12'	3'	3'	14'	10'	4 LT 58-28 S UPPER 3 LT 58-28 S LOWER	4.0"	12.0"	N/A	1 3/4"	2 1/4"
N. CREST ST CUL-DE-SAC	VARIES (MATCH 11')	1'	2'	10'	10'	4 LT 58-28 S UPPER 3 LT 58-28 S LOWER	4.0"	12.0"	N/A	1 3/4"	2 1/4"

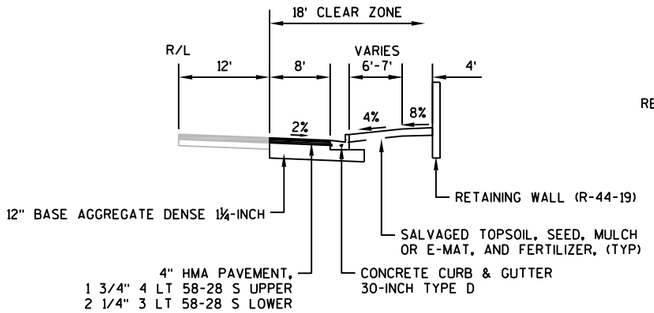


FINISHED TYPICAL HALF SECTION
NASH STREET
STA 107+00 TO STA 113+00

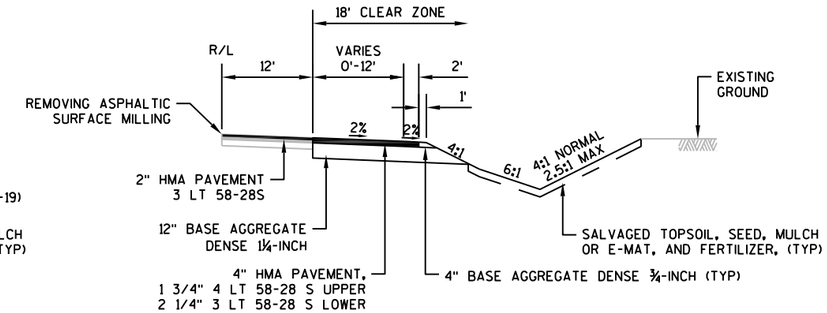


IN CUT IN FILL

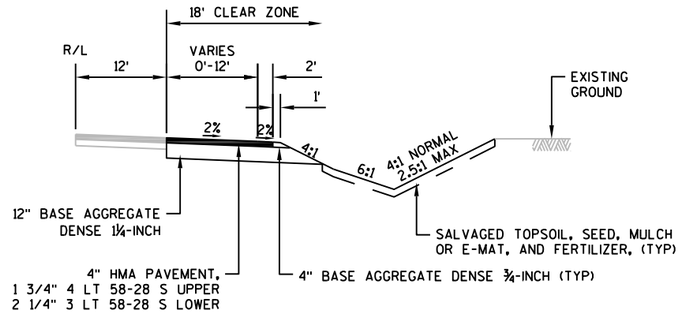
FINISHED TYPICAL SECTION
LOCAL ROADS - SEE TABLE



FINISHED TYPICAL HALF SECTION
CTH M
STA 18'M'+89 TO STA 23'M'+15



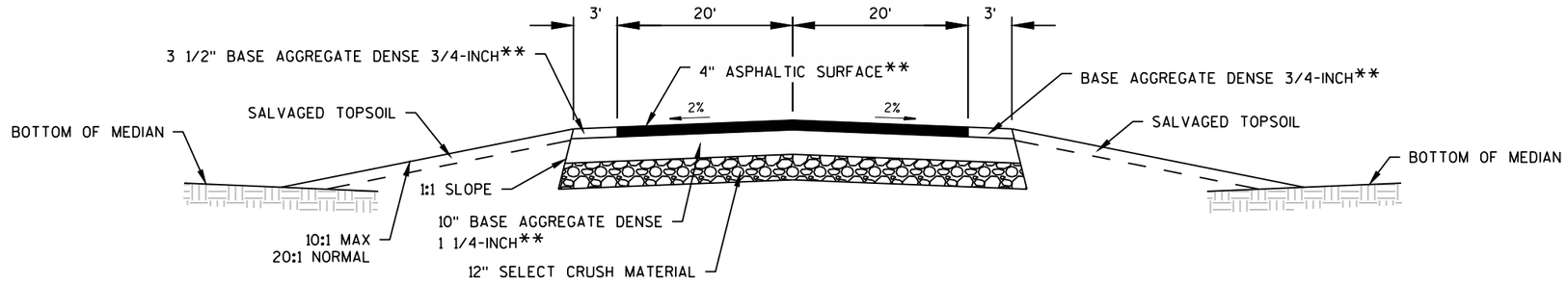
FINISHED TYPICAL HALF SECTION
CTH M
STA 23'M'+15 TO STA 28'M'+55



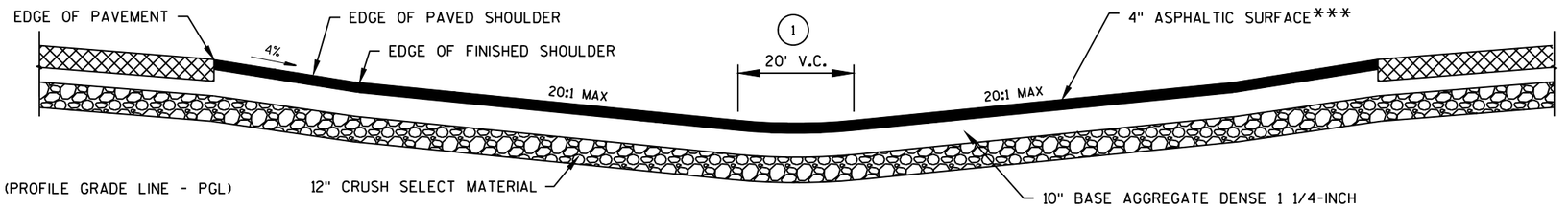
FINISHED TYPICAL HALF SECTION
CTH M
STA 28'M'+55 TO STA 28'M'+71

NOTES

"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)
"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS
* CROSS SLOPE VARIES DUE TO SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)



SECTION A-A



SECTION B-B

NOTES

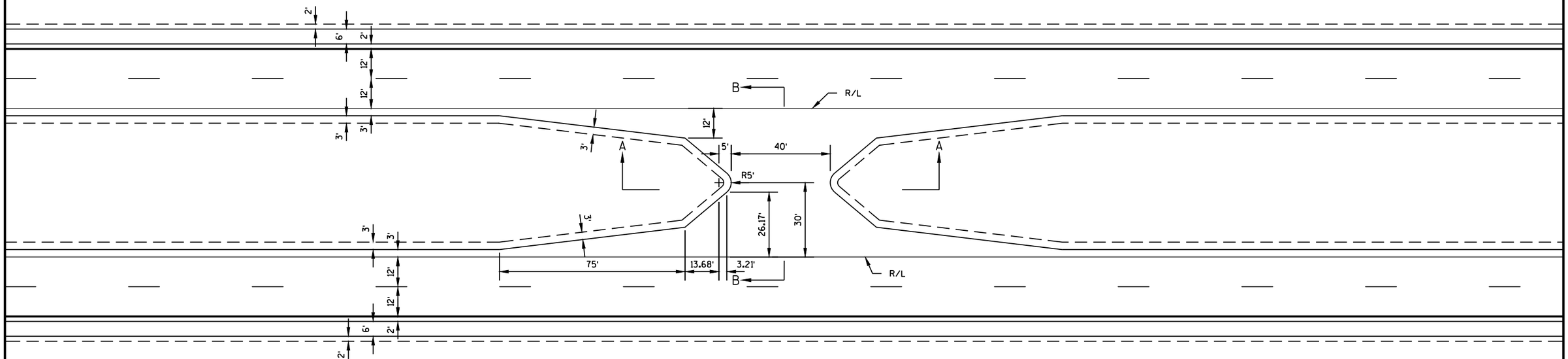
"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)

"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

* CROSS SLOPE VARIES DUE TO SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)

** WORK DONE BY OTHERS, STH 15 PAVEMENT ITEMS SHOWN FOR INFORMATION ONLY

*** USE 4" BASE AGGREGATE DENSE 3/4-INCH FOR THE SNOWMOBILE CROSSING STA 448'EB'+00



MEDIAN CROSSING DETAIL (2)

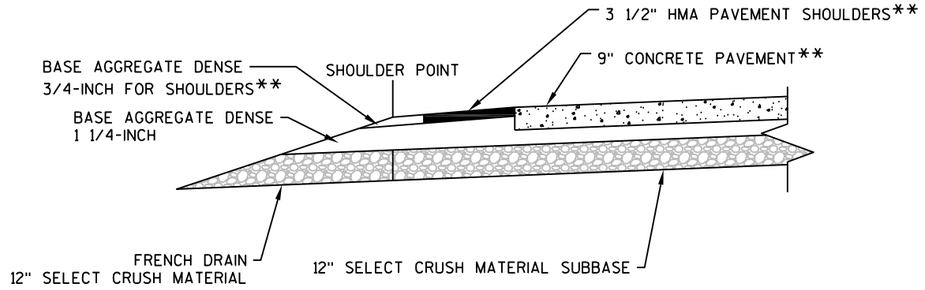
STA 320'EB'+30
STA 346'EB'+60
STA 409'EB'+68
STA 447'EB'+50***

(1) ADJUST VERTICAL CURVE LOCATION LATERALLY TO MAINTAIN 20:1 MAX.

(2) SEE PERMANENT SIGNING PLAN FOR SIGN LOCATIONS.

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS - MEDIAN CROSSINGS	SHEET 7	E

FILE NAME : C:\CIVIL 3D PROJECTS\11467571\SHEETSPLAN\11467571\11467571_021001_CD.DWG
11467571_PLAN - 021001_CD
PLOT DATE : 11/5/2020 11:25 AM PLOT BY : SMITH, JENNIFER B PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



SECTION VIEW

NOTES

"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)

"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

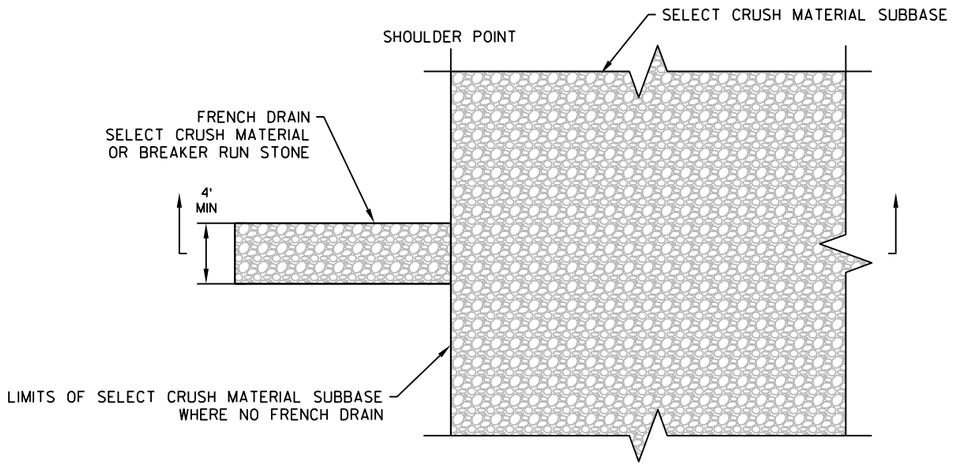
* CROSS SLOPE VARIES DUE TO SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)

** WORK DONE BY OTHERS, STH 15 PAVEMENT ITEMS SHOWN FOR INFORMATION ONLY

DRAINS ARE TO BE CONSTRUCTED AT LEAST EVERY 250' AND AT EACH LOW POINT OF A SAG VERTICAL CURVE IN THE PROFILE.

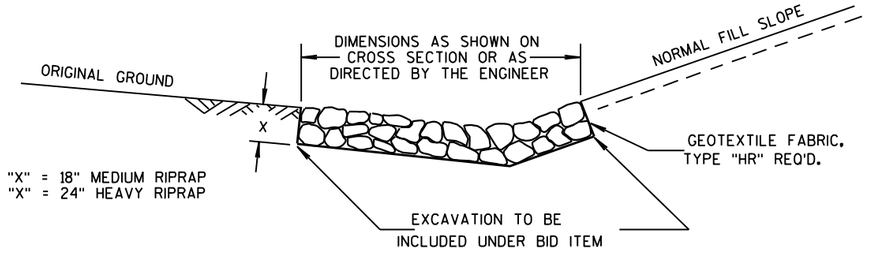
LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

EXCAVATION REQUIRED TO CONSTRUCT FRENCH DRAINS IS INCIDENTAL TO THE ITEM BREAKER RUN STONE.

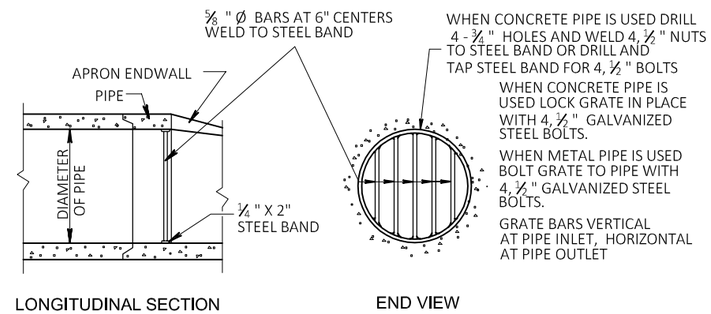


PLAN VIEW

FRENCH DRAIN DETAIL

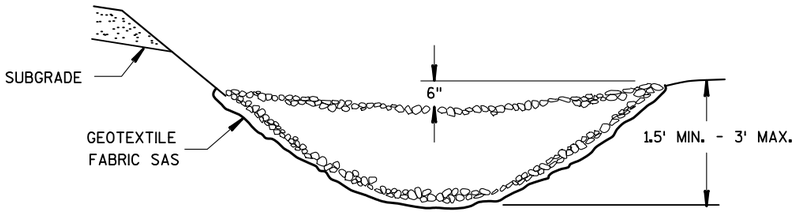


DETAIL FOR RIPRAP IN DITCHES

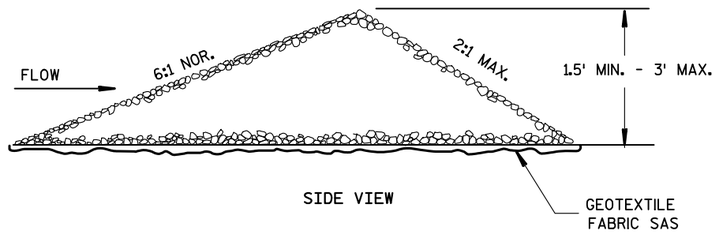


PIPE END GRATE DETAIL

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS - FRENCH DRAIN, EROSION CONTROL	SHEET E

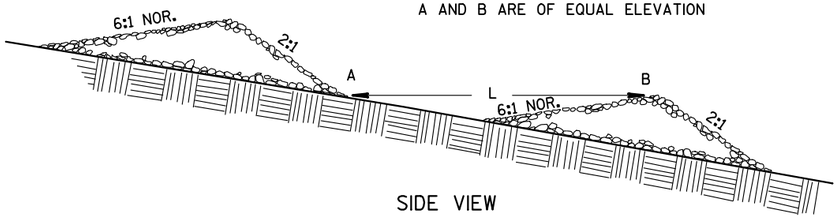


CROSS SECTIONAL VIEW



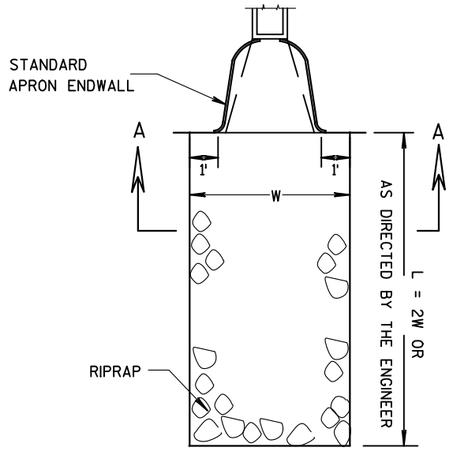
SIDE VIEW

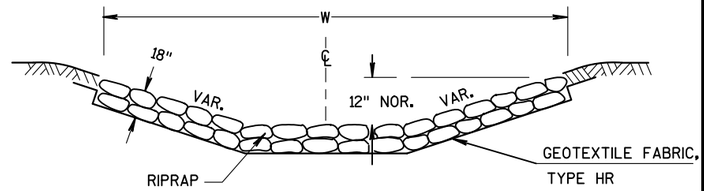
L = THE DISTANCE SUCH THAT POINTS
A AND B ARE OF EQUAL ELEVATION



SIDE VIEW

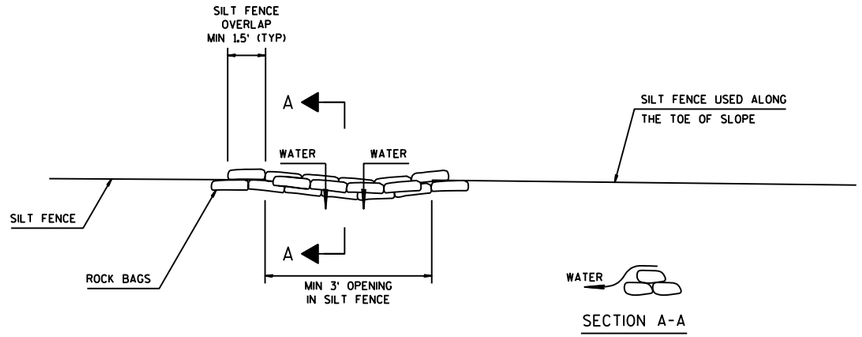
PERMANENT STONE DITCH CHECK





SECTION A-A

RIPRAP MEDIUM DETAIL AT APRON ENDWALLS

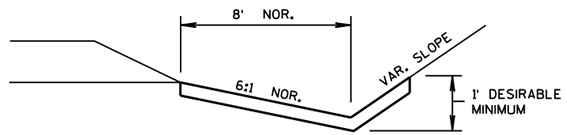


SECTION A-A

TOP VIEW

ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

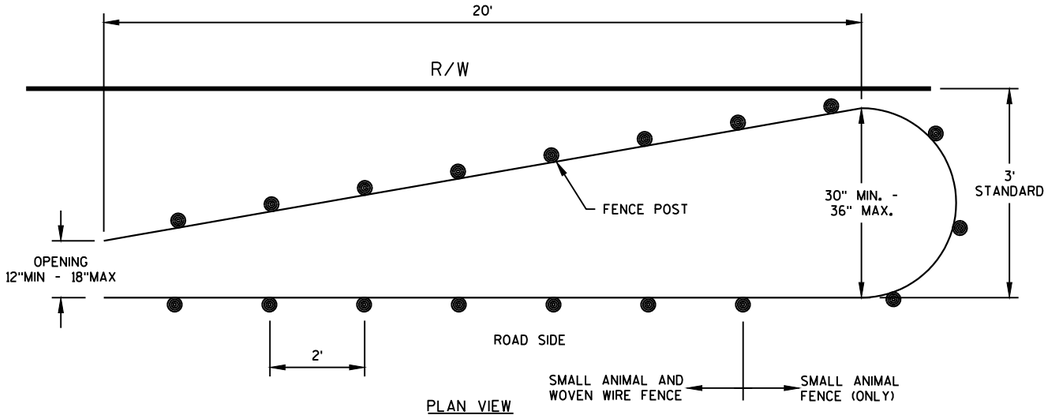
PAID AS ROCK BAGS



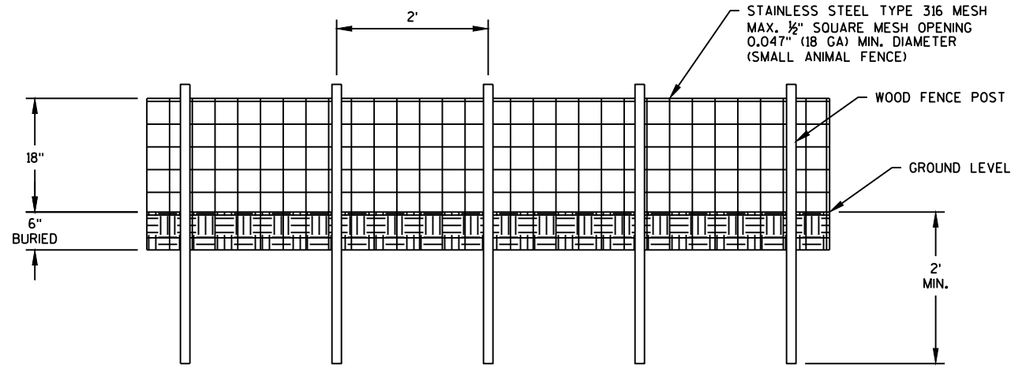
EROSION MAT DETAIL FOR DITCHES

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	EROSION CONTROL DETAILS	SHEET 9	E

FILE NAME : C:\CIVIL 3D PROJECTS\11467571\SHEETSPLAN\11467571\11467571_021001_CD.DWG
LAYOUT NAME - 021009_CD
PLOT DATE : 11/5/2020 11:25 AM PLOT BY : SMITH, JENNIFER B PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

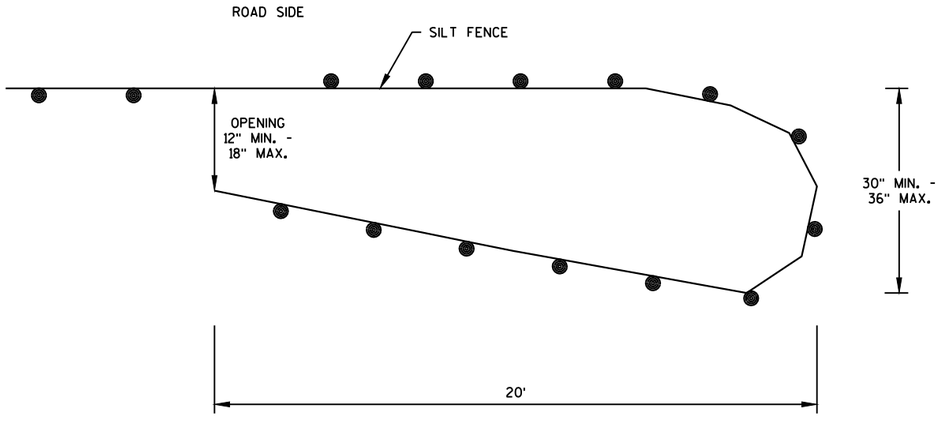


PLAN VIEW



PROFILE VIEW
SMALL ANIMAL FENCE

PERMANENT SMALL ANIMAL FENCE AND TURN-AROUND DETAIL

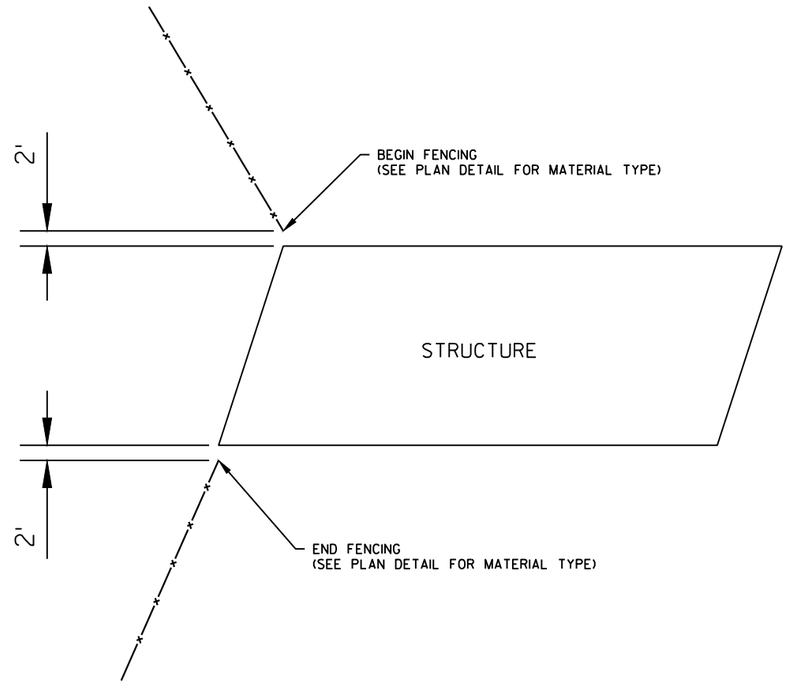


PLAN VIEW

GENERAL NOTES:

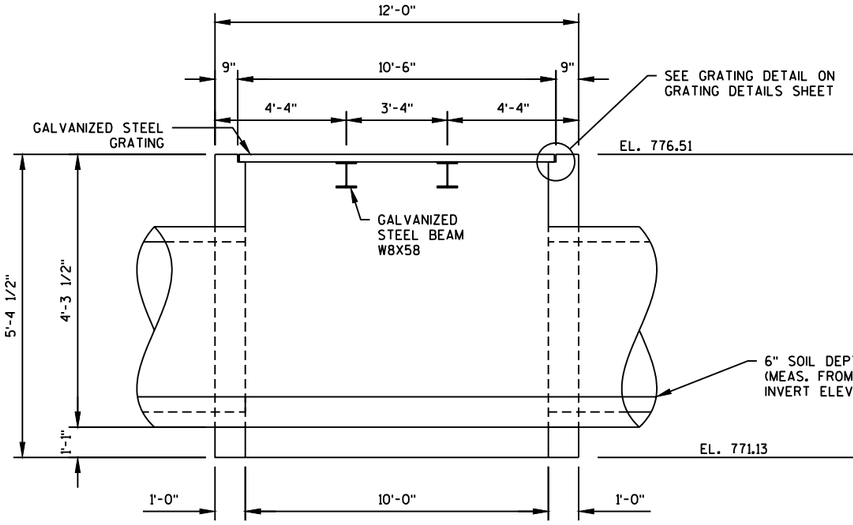
THE PURPOSE OF THE TURTLE TURN-AROUNDS ARE TO REDIRECT THE TURTLES AWAY FROM THE CONSTRUCTION ZONE. DESIGN SHOULD ALSO INCLUDE TRENCHED-IN SEDIMENT FENCING AND FENCING SUPPORTS ON THE UPSLOPE SIDE OF THE FENCE. SILT FENCE POSTS FOR THE TURN-AROUNDSHOULD BE ON THE OUTSIDE OF THE TURN-AROUND.

TEMPORARY TURTLE TURN-AROUND DETAIL

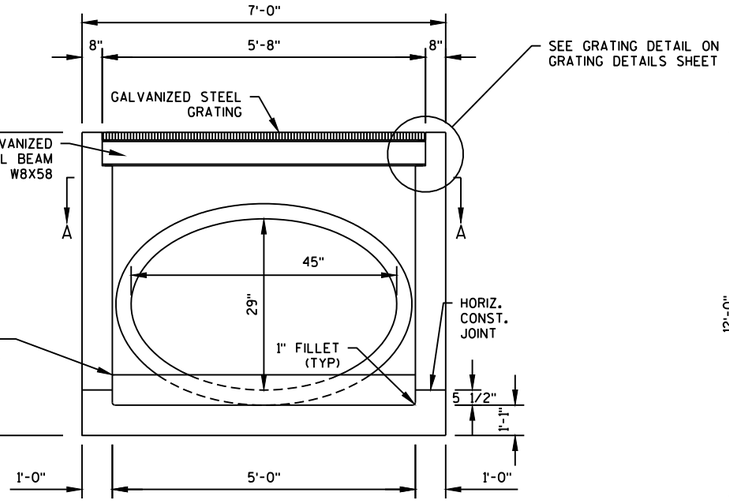


FENCE DETAIL AT STRUCTURES

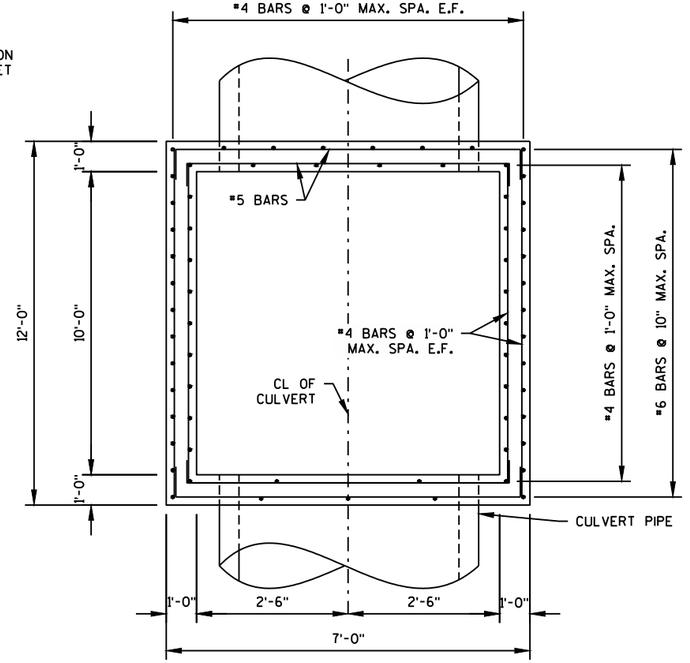
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAIL - FENCING	SHEET 10	E



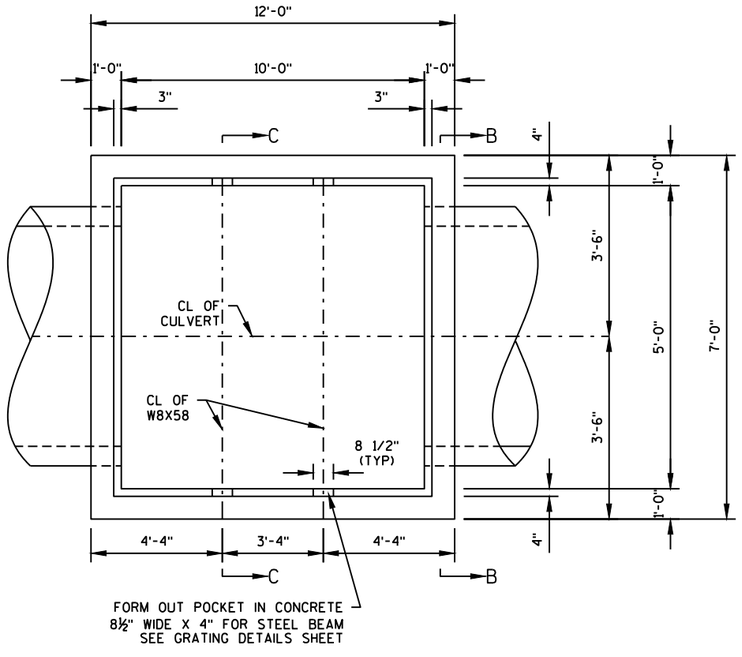
LONG. SECTION THRU MEDIAN INLET



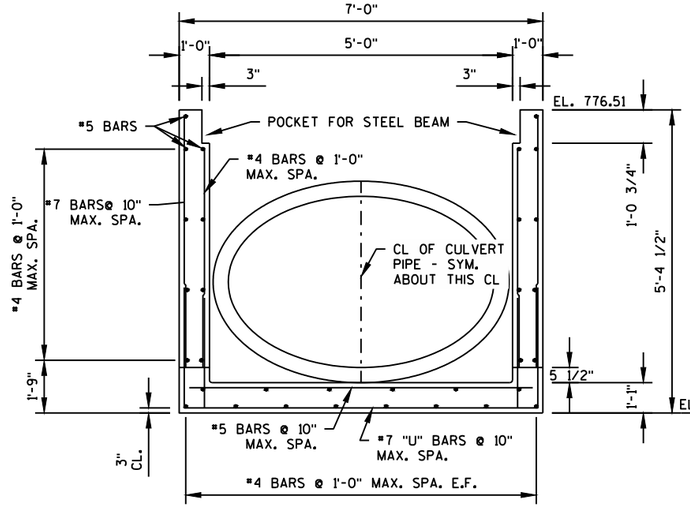
CROSS SECTION THRU MEDIAN INLET



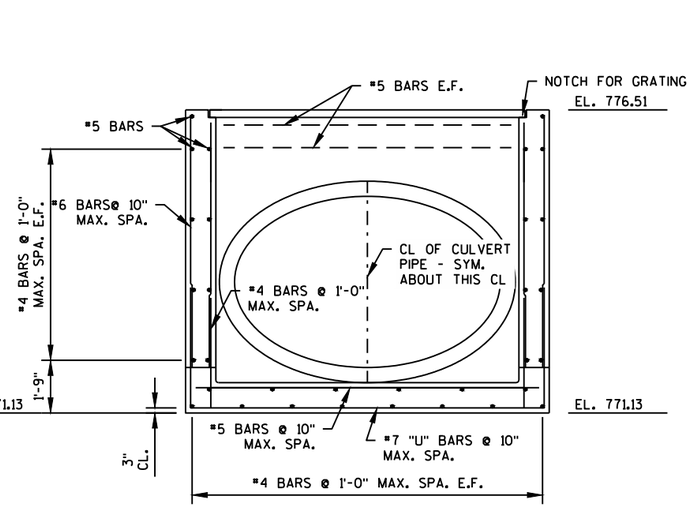
SECTION A



PLAN OF MEDIAN INLET



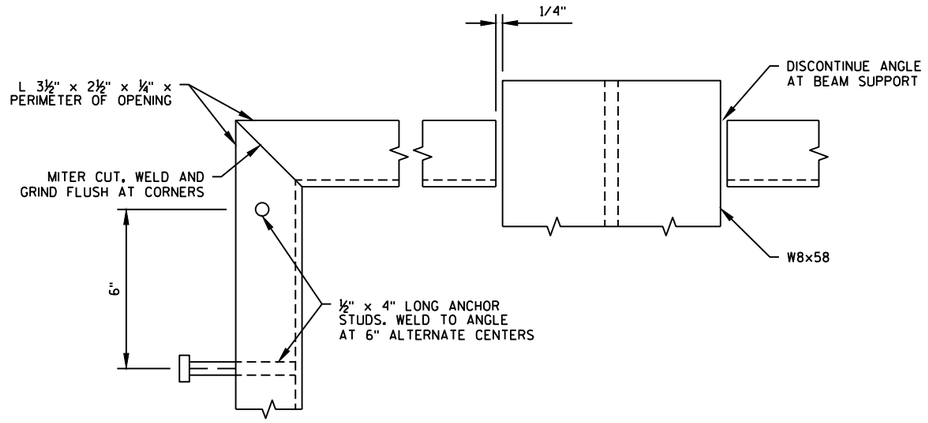
SECTION C



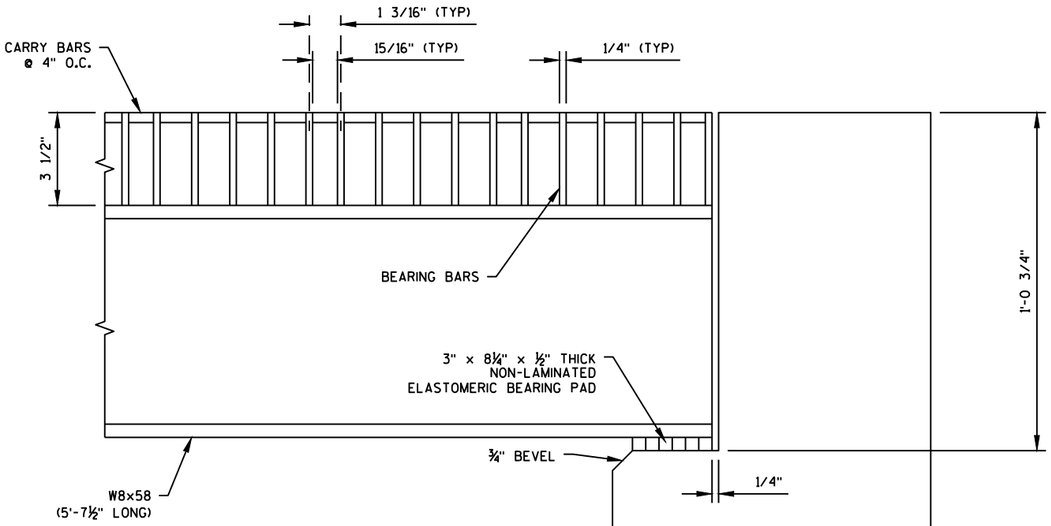
SECTION B

NOTE: E.F. DENOTES EACH FACE

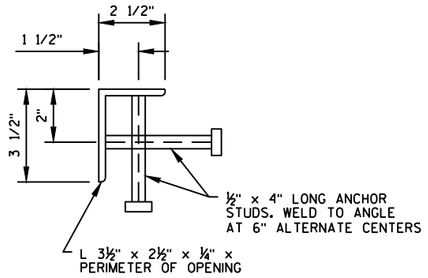
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAIL - ECO PASSAGE STRUCTURE SECTIONS	SHEET 11	E



PLAN AT MEDIAN INLET

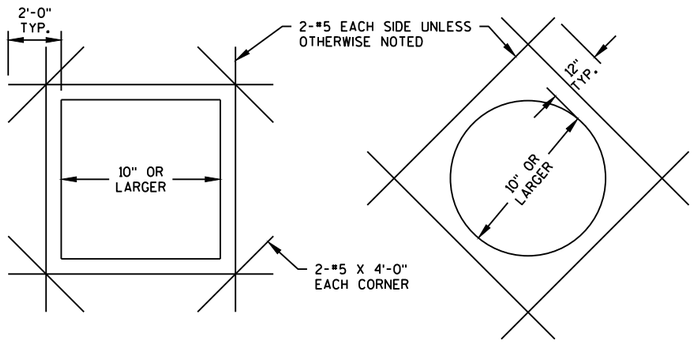


GRATING DETAIL @ MEDIAN INLET



SECTION

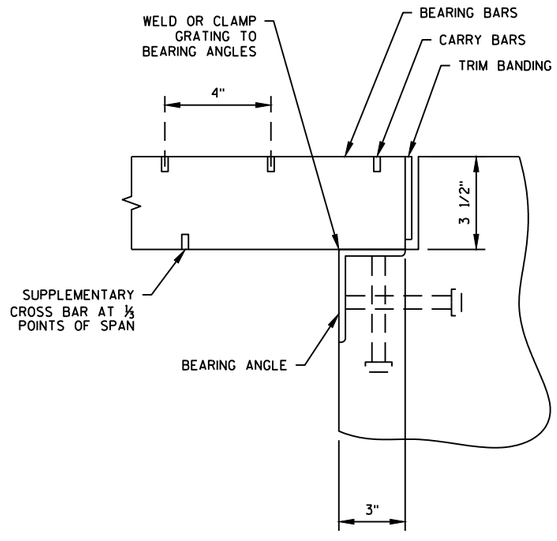
BEARING ANGLE



SUPPLEMENTARY REINFORCEMENT AT WALL OPENINGS

NOTE:

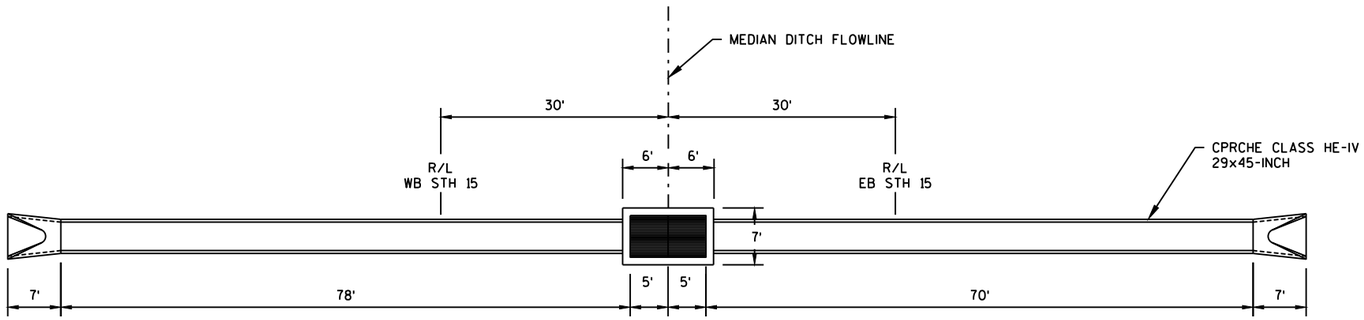
PROVIDE SUPPLEMENTARY REINFORCEMENT FOR EACH LAYER OF REINFORCEMENT.



BEARING BAR SUPPORT DETAIL

STEEL GRATING NOTES:

1. GRATING OPEN AREAS EQUAL 72%.
2. MAXIMUM CLEAR SPAN FOR GRATING EQUALS 3'-2".
3. STEEL GRATING SHALL SUPPORT AN HS20 WHEEL LOAD WITH AN IMPACT FACTOR OF 1.3.
4. GRATING SHALL BEAR FLUSH ON SUPPORT BEAM AND ON ANGLES AT ENDS OF BEARING BARS.
5. GRATING, SUPPORT BEAM, AND BEARING ANGLES SHALL CONFORM TO AASHTO M270 (ASTM A709) GRADE 50. ALL MATERIAL SHALL BE GALVANIZED.
6. PROVIDE SUPPLEMENTARY CROSS BARS AT ⅓ POINTS OF SPANS ON UNDERSIDE OF GRATING.
7. SUPPLY TRIM BANDING AT END OF GRATING PANELS WELDED FLUSH WITH THE TOP OF GRATING AND ¼" LESS THAN THE DEPTH OF GRATING.



PLAN STH 15
STA 309+00

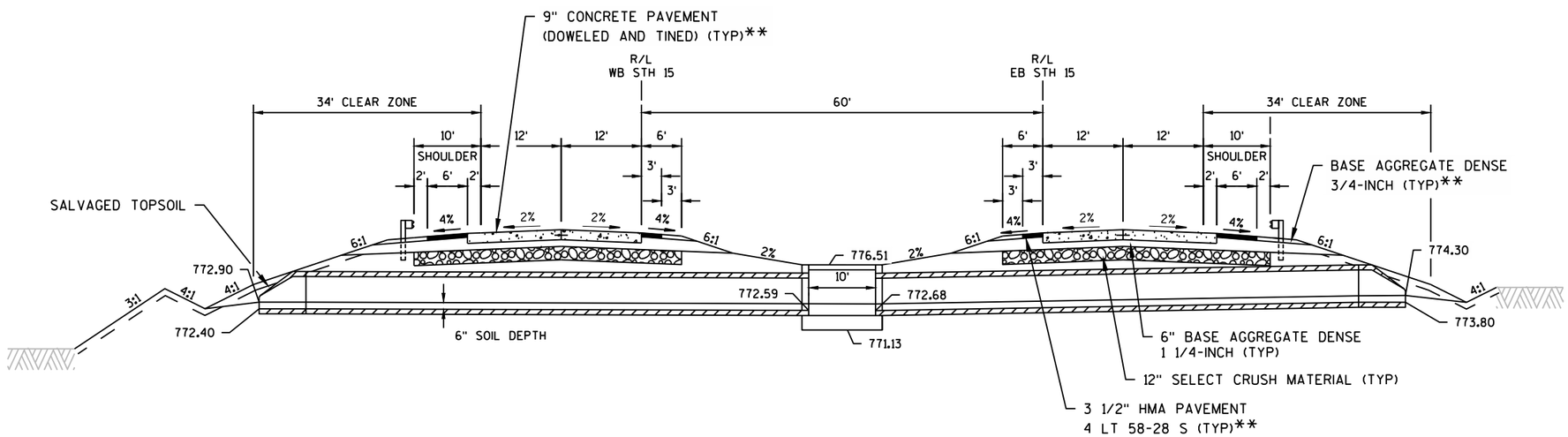
NOTES

"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)

"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

* CROSS SLOPE VARIES DUE TO SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)

** WORK DONE BY OTHERS, STH 15 PAVEMENT ITEMS SHOWN FOR INFORMATION ONLY



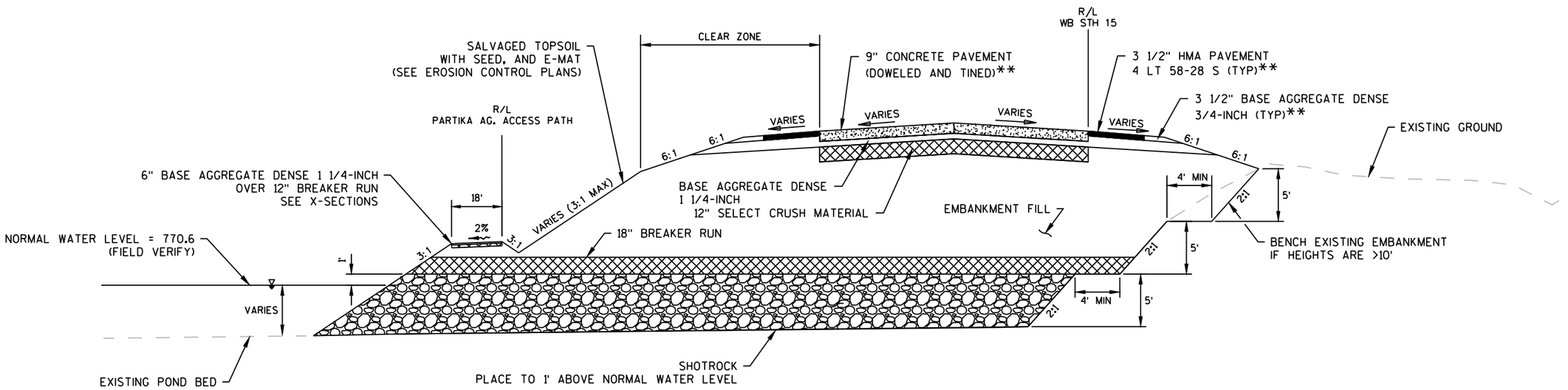
DESIGN DATA

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY	f'c=	3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60)	fy=	60,000 p.s.i.
HIGH STRENGTH STRUCTURAL STEEL (ASTM A709, GRADE 50)	fy=	50,000 p.s.i.

CROSS SECTION STH 15
STA 309+00

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONST. DETAIL - ECO PASSAGE STRUCTURE PLAN & LONG. SECTION	SHEET 13	E



NOTES

"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)

"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

* CROSS SLOPE VARIES DUE TO SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)

** WORK DONE BY OTHERS, STH 15 PAVEMENT ITEMS SHOWN FOR INFORMATION ONLY

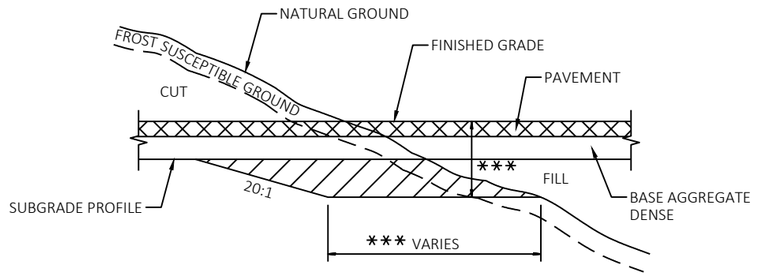
*** DISTANCE/DEPTH TO BE DETERMINED BY ENGINEER IN THE FIELD.

SEE CROSS SECTIONS FOR APPROXIMATE POND DEPTHS AT EACH STATION.

AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER.

PARTIKA POND FILL DETAIL

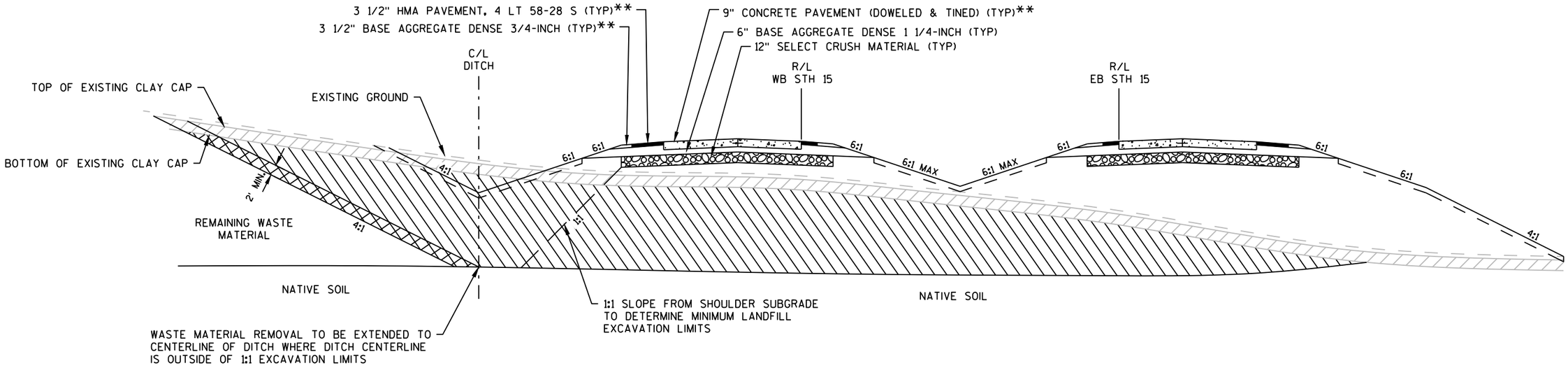
STA 296'WB'+29 TO STA 297'WB'+84



PROFILE VIEW

CUT/FILL TRANSITIONS

STA 375'WB'+50 - 376'WB'+50	STA 377'EB'+00 - 379'EB'+00
STA 384'WB'+50 - 385'WB'+50	STA 384'EB'+00 - 385'EB'+00
STA 403'WB'+00 - 404'WB'+50	STA 406'EB'+00 - 408'EB'+00
STA 427'WB'+00 - 428'WB'+00	STA 426'EB'+00 - 427'EB'+50
STA 448'WB'+00 - 449'WB'+00	STA 447'EB'+50 - 448'EB'+50
STA 460'WB'+00 - 462'WB'+00	STA 461'EB'+00 - 462'EB'+00



LANDFILL WASTE REMOVAL DETAIL

APPROX. STA 431'WB'+75 TO STA 435'WB'+05
APPROX. STA 432'EB'+35 TO STA 435'EB'+25

LEGEND

- LANDFILL MATERIAL TO BE REMOVED
- NEW CLAY CAP (INCLUDES LANDFILL MATERIAL REMOVAL)
- EXISTING CLAY CAP

NOTES

"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)

"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

* CROSS SLOPE VARIES DUE TO SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)

** WORK DONE BY OTHERS. STH 15 PAVEMENT ITEMS SHOWN FOR INFORMATION ONLY

CONTRACTOR SHALL NOTIFY THE DNR WITHIN 10 DAYS OF THE INITIATION OF WASTE REMOVAL.

STORM WATER IS PROHIBITED FROM BEING IN CONTACT WITH SOLID WASTE DURING OR AFTER THIS WORK.

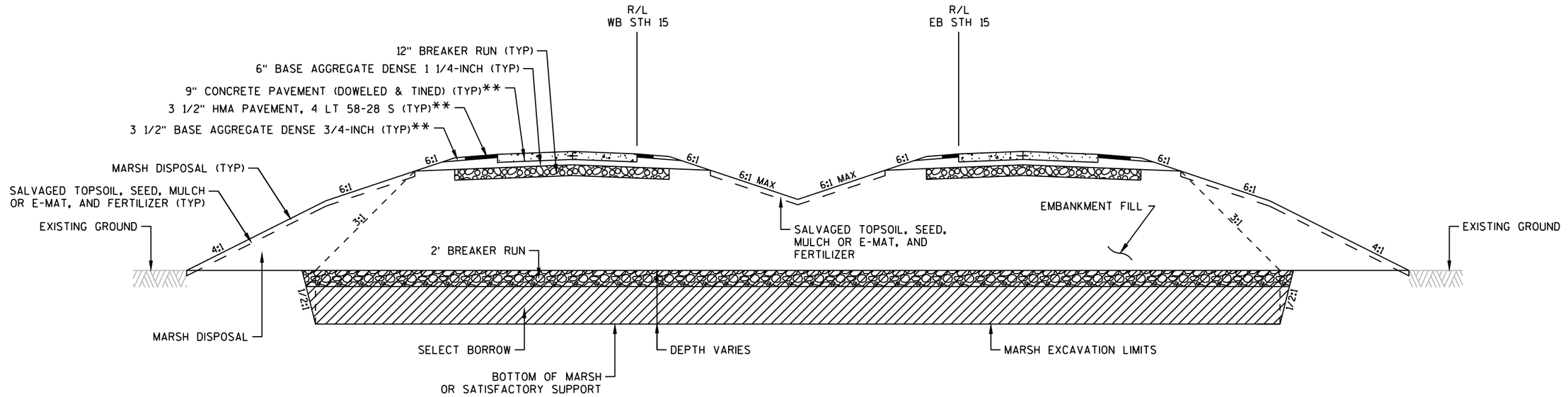
TOPSOIL AND/OR CLAY CAP REMOVED DURING CONSTRUCTION IS ASSUMED TO BE UN-IMPACTED AND HAS UNRESTRICTED USE.

NEW CLAY CAP IS REQUIRED ONLY OVER AREAS OF REMAINING WASTE.

PERFORM RE-GRADING AND REPLACEMENT OF THE CLAY CAP AND TOP SOIL COVER IN ACCORDANCE WITH NR 506 AND NR 504.

COMPLETE SEEDING IN ACCORDANCE WITH NR 506.08 WITHIN 30 DAYS OF COVER PLACEMENT.

SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.



MARSH EXCAVATION DETAIL

STH 15

WEST BOUND	EAST BOUND
STA 331'WB'+00 TO 359'WB'+00	STA 331'EB'+00 TO 359'EB'+00
STA 450'WB'+00 TO STA 458'WB'+00	STA 450'EB'+00 TO STA 458'EB'+00

NOTES

"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)

"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

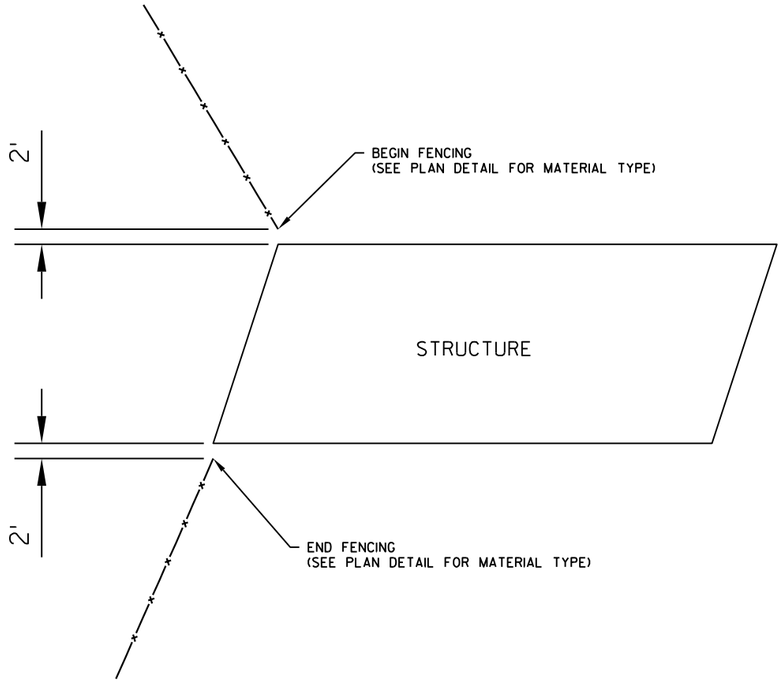
* CROSS SLOPE VARIES DUE TO SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)

** WORK DONE BY OTHERS, STH 15 PAVEMENT ITEMS SHOWN FOR INFORMATION ONLY

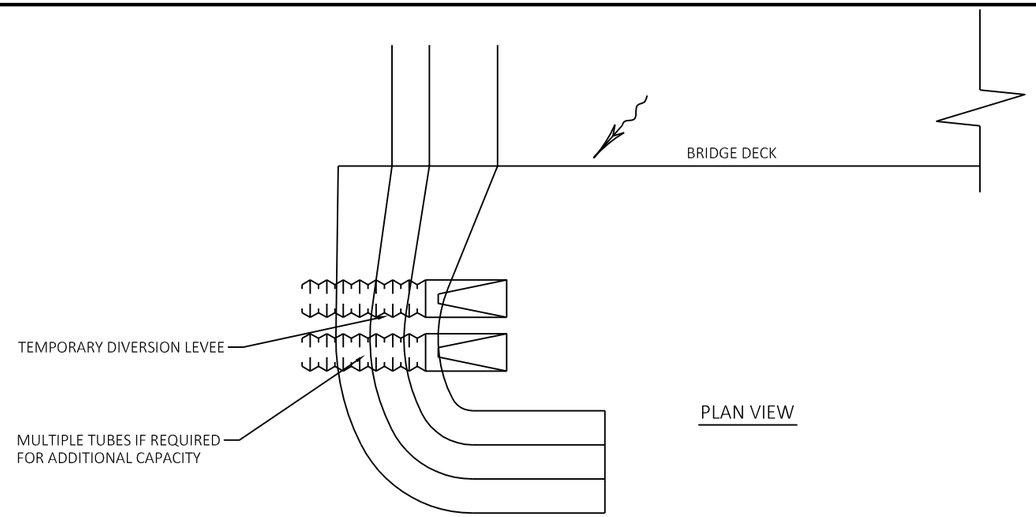
LIMITS OF MARSH EXCAVATION SHALL EXTEND TO 3:1 SLOPE INTERCEPT AS A MINIMUM.

ROADWAY EMBANKMENT SHALL BE USED FOR BACKFILL BETWEEN NORMAL ROADWAY CORE (1:1 SLOPE INTERCEPT FROM SUBGRADE SHOULDER POINT) AND 3:1 SLOPE INTERCEPT.

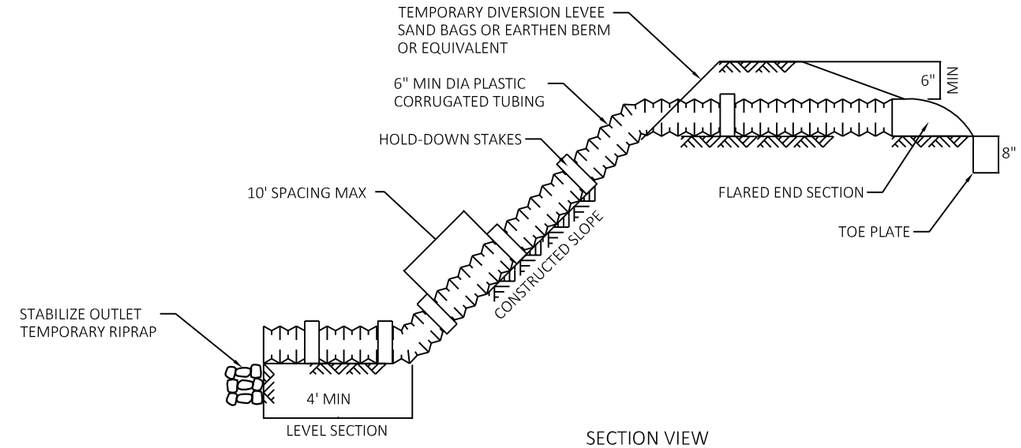
MARSH DISPOSAL IS ALLOWED OUTSIDE OF 3:1 SLOPES PROJECT-WIDE WHERE FILL HEIGHT 'H' DOES NOT EXCEED 10'.



FENCE DETAIL AT STRUCTURES



PLAN VIEW



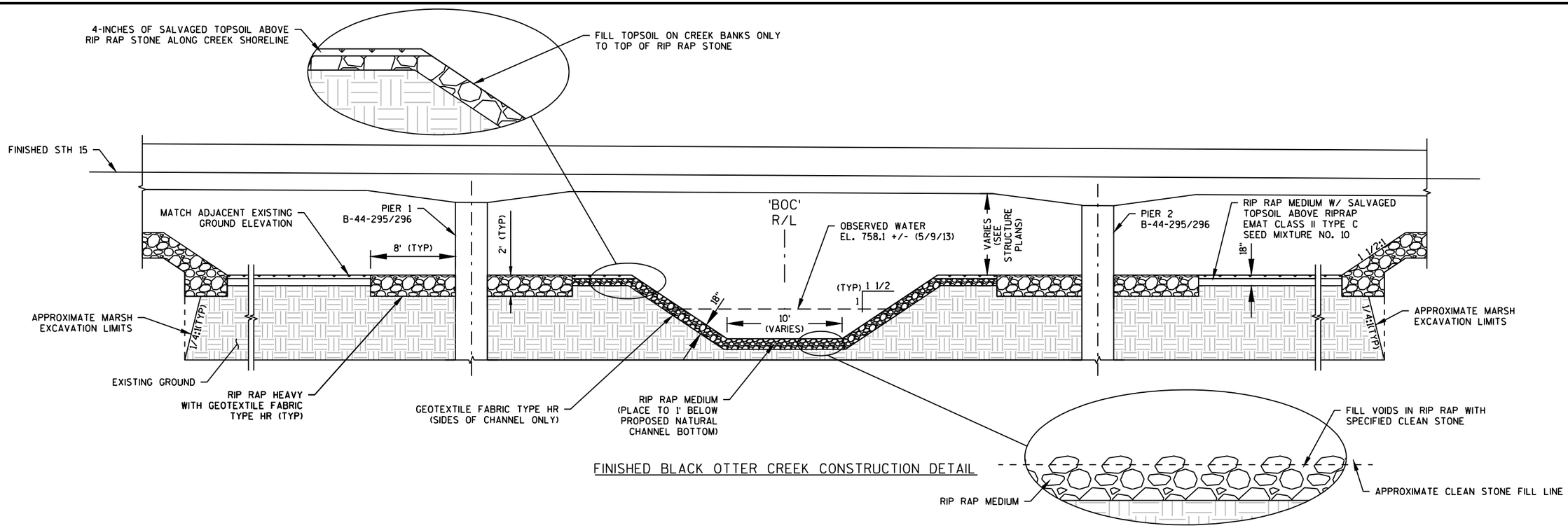
SECTION VIEW

NOTES:

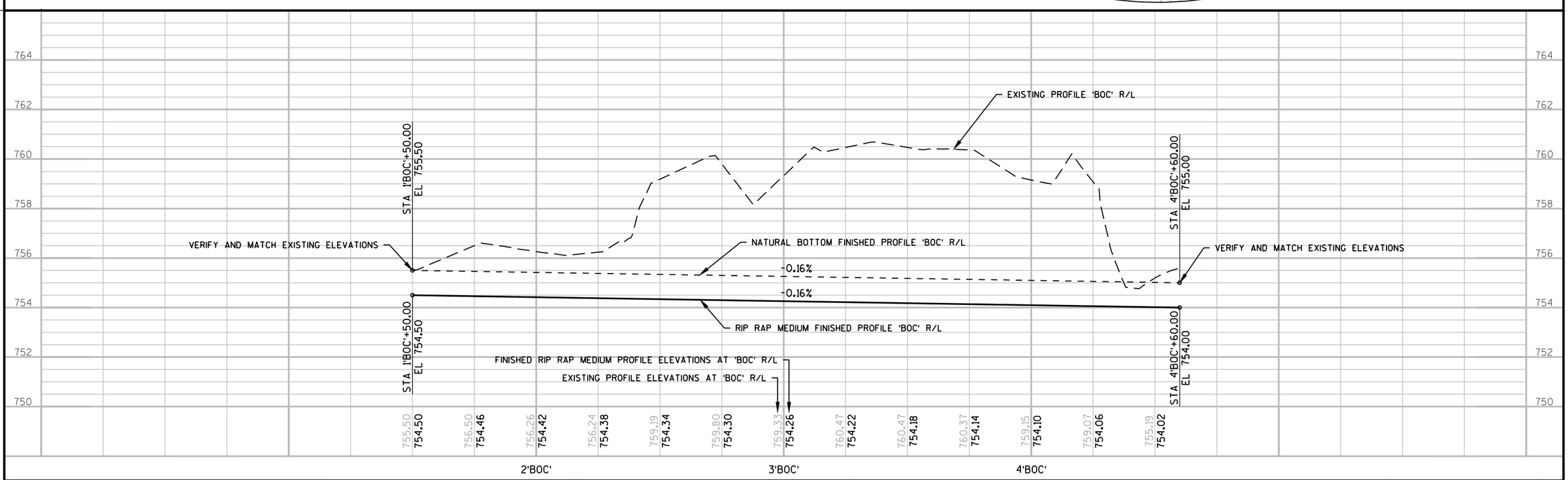
1. TEMPORARY LEVEE SHALL BE CONSTRUCTED FROM EARTHEN BERM, SAND BAGS, OR OTHER EQUIVALENT MATERIAL TO TEMPORARILY DIVERT WATER ALONG THE TOP OF SLOPE.
2. CONDUIT MATERIAL SHALL BE HEAVY DUTY FLEXIBLE MATERIAL SUCH AS NON-PERFORATED CORRUGATED PLASTIC TUBING OR SPECIALLY DESIGNED FLEXIBLE TUBING.
3. THE FLARED END SECTION AT THE INLET SHALL BE WATER-TIGHT WITH HAND COMPACTED MATERIAL AROUND THE PIPE AND END SECTION.
4. THE SOIL MATERIAL AROUND THE PIPE SHALL BE COMPACTED IN 6" LIFTS TO FILL ALL VOIDS IN THE TUBING CORRUGATIONS.
5. REMOVE TEMPORARY DRAINS AND TEMPORARY LEVEES AFTER SLOPE IS FULLY STABILIZED WITH VEGETATION AND EROSION CONTROL FEATURES.
6. TEMPORARY OUTLET STABILIZATION SUCH AS RIPRAP OR OTHER APPROVED METHOD IS INCIDENTAL TO THE TEMPORARY SLOPE DRAIN ITEM.

TEMPORARY SLOPE DRAIN DETAIL

2



FINISHED BLACK OTTER CREEK CONSTRUCTION DETAIL



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAIL - BLACK OTTER CREEK REALIGNMENT	SHEET 18	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021019_CD.DWG
LAYOUT NAME - 021019_CD
PLOT DATE : 1/22/2020 7:41 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 44

2

END 'BOC' ALIGNMENT
Y=593279.3125
X=764184.6184

N

SEE PIKE SCRAPE DETAIL FOR ELEVATION CONTOURS

TEMPORARY SHORING (TYP.)

R/W

SILT FENCE (SEE TEMPORARY EROSION CONTROL PLAN)

LIMITS OF MEDIUM RIP RAP WITH SALVAGED TOPSOIL ABOVE RIPRAP (TYP)

RIP RAP HEAVY

4BOC

PROPOSED B-44-296

339WB

340WB

341WB

STH 15 WB R/L

EMAT CLASS II TYPE C SEED MIXTURE NO. 10 (TYP.)

RIP RAP HEAVY

PROPOSED B-44-295

PRIVATE STRUCTURE

339EB

0EB

341EB

STH 15 EB R/L

SLOPE INTERCEPT (TYP.)

2BOC

R/W

'BOC' R/L

APPROX. MARSH EXCAVATION LIMITS

BEGIN 'BOC' ALIGNMENT
Y=593013.3761
X=764330.3133

STAGE 1

EXCAVATE MARSH SOILS AND CONSTRUCT REALIGNED CHANNEL. CONSTRUCT PIKE SCRAPE ON EAST SIDE OF CREEK.

SWITCHING STAGES

REMOVE DOWNSTREAM SHEETING TO ALLOW NEW STREAM BED TO FILL WITH WATER. REMOVE UPSTREAM SHEETING.

END 'BOC' ALIGNMENT
Y=593279.3125
X=764184.6184

N

SILT FENCE (SEE TEMPORARY EROSION CONTROL PLAN)

'BOC' R/L

R/W

SEE PIKE SCRAPE DETAIL FOR ELEVATION CONTOURS

SLOPE INTERCEPT (TYP.)

APPROXIMATE MARSH EXCAVATION LIMITS

RIP RAP HEAVY

4BOC

PROPOSED B-44-296

STH 15 WB R/L

339WB

340WB

341WB

EMAT CLASS II TYPE C SEED MIXTURE NO. 10 (TYP.)

RIP RAP HEAVY

STH 15 EB R/L

339EB

0EB

341EB

REMOVE PRIVATE STRUCTURE

PROPOSED B-44-295

LIMITS OF MEDIUM RIP RAP WITH SALVAGED TOPSOIL ABOVE RIPRAP (TYP)

2BOC

TEMPORARY SHORING

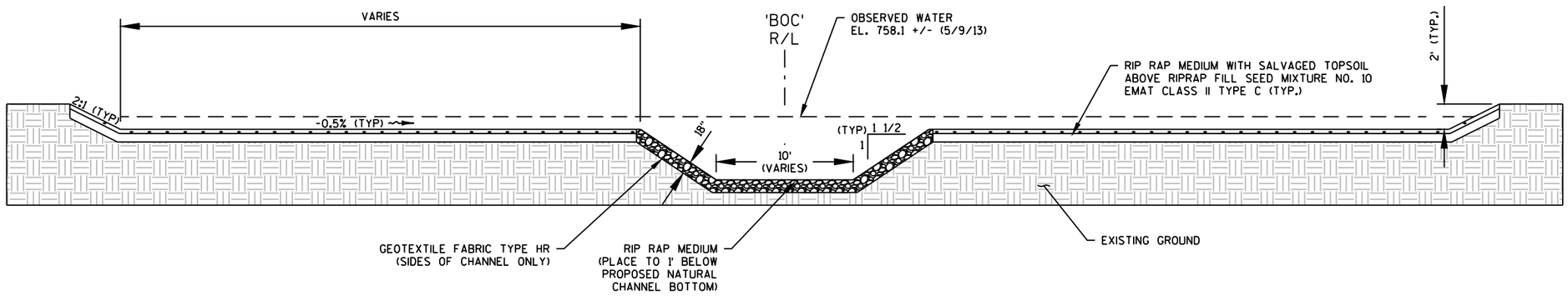
R/W

BEGIN 'BOC' ALIGNMENT
Y=593013.3761
X=764330.3133

STAGE 2

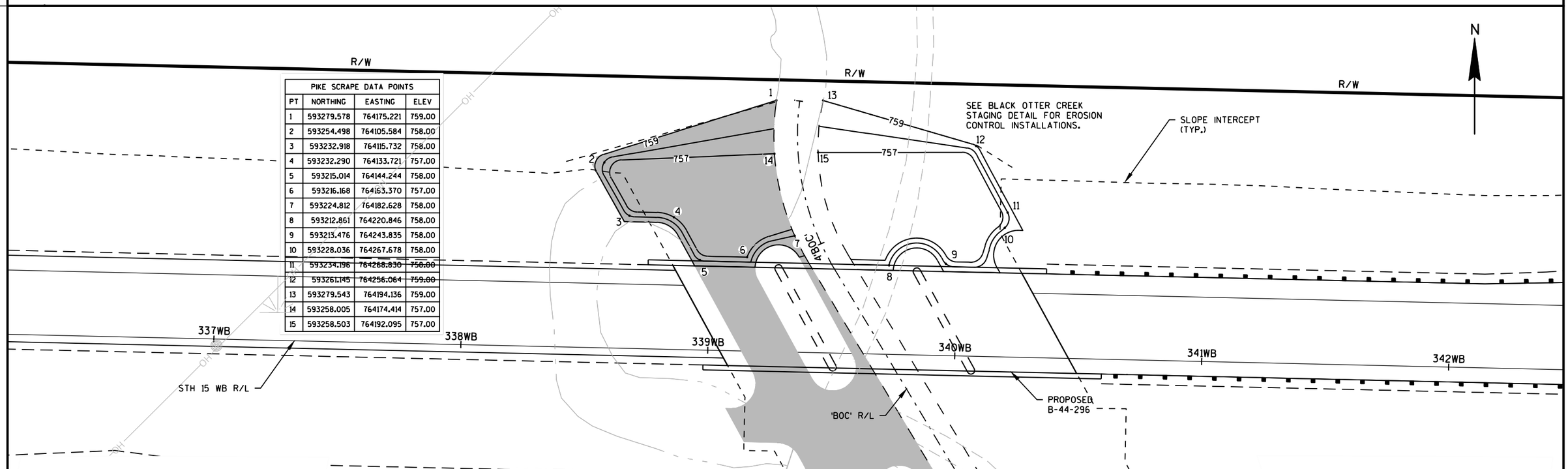
PLACE TEMP. SHORING ALONG NEW CHANNEL AND EXCAVATE MARSH SOILS TO THE WEST OF REALIGNED BLACK OTTER CREEK. CONSTRUCT PIKE SCRAPE ON WEST SIDE OF CREEK.

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS - BLACK OTTER CREEK STAGING	SHEET	E



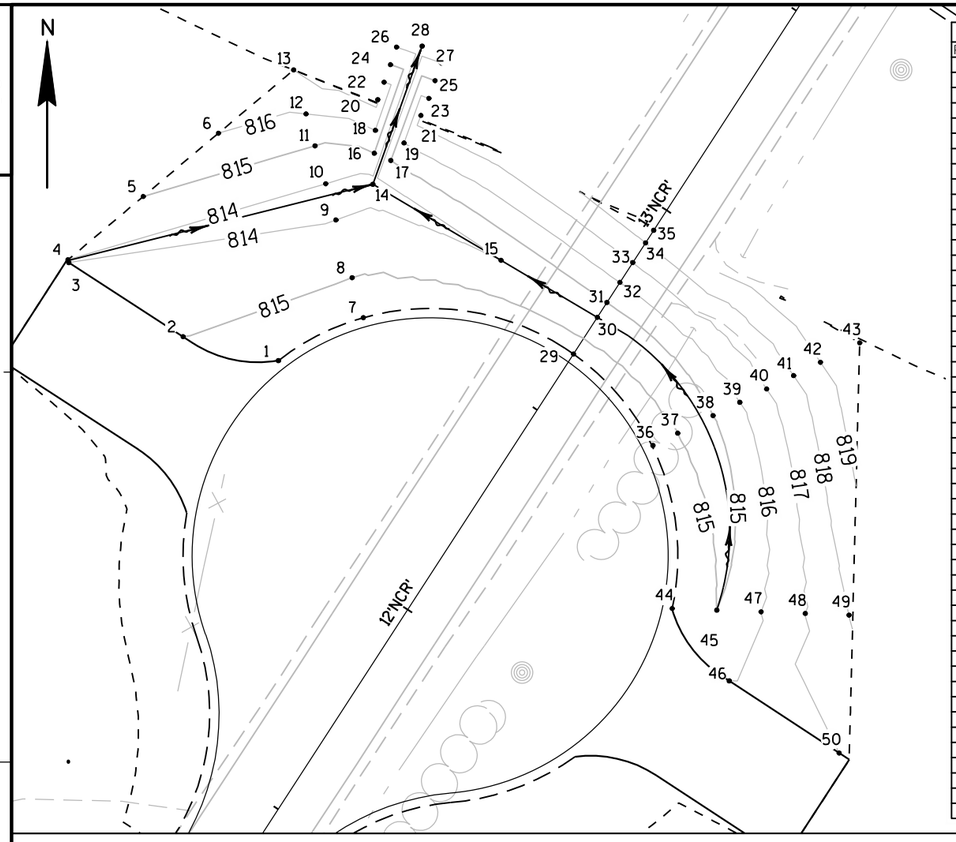
PIKE SCRAPE DETAIL

PIKE SCRAPE DATA POINTS			
PT	NORTHING	EASTING	ELEV
1	593279.578	764175.221	759.00
2	593254.498	764105.584	758.00
3	593232.918	764115.732	758.00
4	593232.290	764133.721	757.00
5	593215.014	764144.244	758.00
6	593216.168	764163.370	757.00
7	593224.812	764182.628	758.00
8	593212.861	764220.846	758.00
9	593213.476	764243.835	758.00
10	593228.036	764267.678	758.00
11	593234.196	764268.830	758.00
12	593261.145	764256.064	759.00
13	593279.543	764194.136	759.00
14	593258.005	764174.414	757.00
15	593258.503	764192.095	757.00

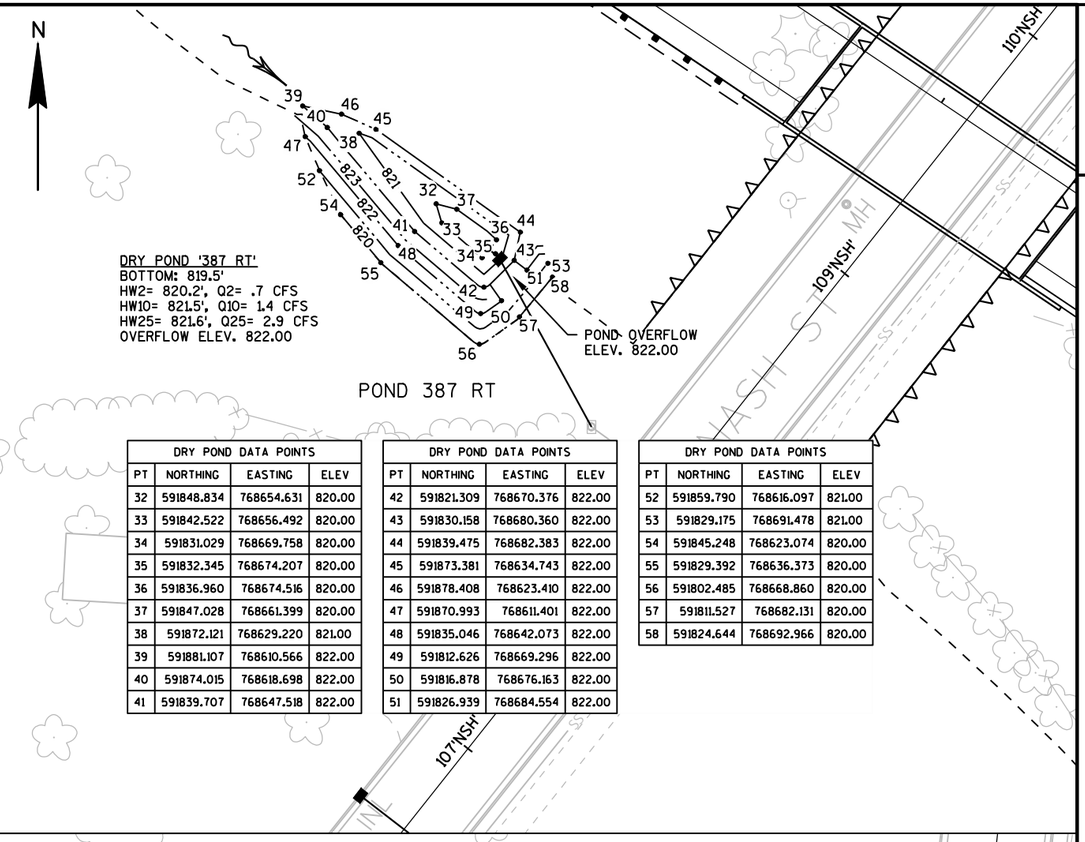


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAIL - BLACK OTTER CREEK PIKE SCRAPE	SHEET 20	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021019_CD.DWG
LAYOUT NAME - 021021_CD
PLOT DATE : 1/22/2020 7:44 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 44



N CREST ST SWALE - DATA POINTS			
POINT	NORTHING	EASTING	ELEVATION
1	592359.4083	767802.7282	815.74
2	592364.4273	767782.7071	815.00
3	592380.0020	767758.6925	814.00
4	592380.5910	767758.5250	814.00
5	592393.8879	767774.3288	815.00
6	592407.1849	767790.1325	816.00
7	592368.4350	767820.5869	815.67
8	592376.8385	767818.2214	815.00
9	592388.9608	767814.8091	814.00
10	592396.5694	767812.6674	814.00
11	592404.5402	767810.4237	815.00
12	592411.2331	767808.5397	816.00
13	592420.4818	767805.9363	817.00
14	592396.4546	767822.5827	813.66
15	592380.4957	767849.5049	814.00
16	592402.9711	767822.8806	815.00
17	592401.4488	767826.3477	815.00
18	592407.7901	767823.1008	816.00
19	592405.1421	767829.1319	816.00
20	592414.2295	767823.6134	817.00
21	592410.9254	767832.6768	817.00
22	592417.9143	767824.9276	816.00
23	592414.5199	767834.3339	816.00
24	592421.5892	767826.2698	815.00
25	592418.2331	767835.6582	815.00
26	592425.2837	767827.5558	814.00
27	592421.9463	767836.9824	814.00
28	592425.4824	767832.9351	813.50
29	592360.8097	767864.7391	815.50
30	592368.5063	767869.7307	814.27
31	592371.6148	767871.7467	815.00
32	592375.8420	767874.4882	816.00
33	592380.0139	767877.1940	817.00
34	592384.1479	767879.8751	818.00
35	592386.7857	767881.5858	818.53
36	592341.5830	767881.4242	815.39
37	592344.1675	767886.6313	815.00
38	592347.8498	767894.0501	815.00
39	592350.6426	767899.6770	816.00
40	592353.4475	767905.3282	817.00
41	592356.2525	767910.9795	818.00
42	592359.0575	767916.6308	819.00
43	592363.1473	767924.8708	820.00
44	592307.3210	767885.4871	815.28
45	592306.9727	767894.8548	815.00
46	592292.1242	767897.4563	816.00
47	592306.6669	767904.1538	816.00
48	592306.2812	767913.4528	817.00
49	592305.9399	767922.6329	818.00
50	592276.9596	767920.5591	817.00



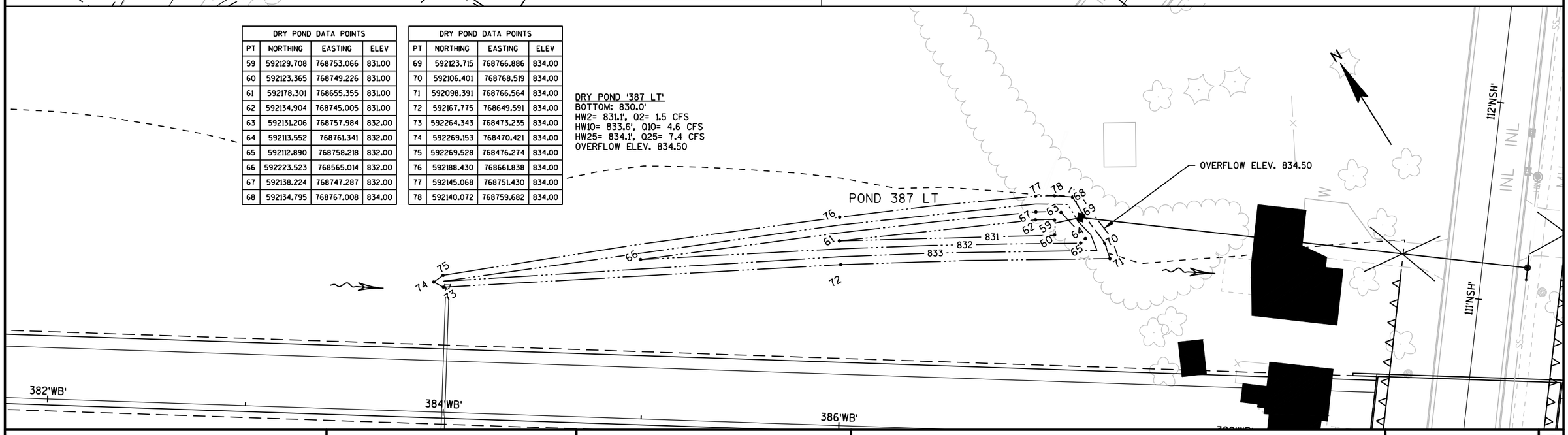
DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
32	591848.834	768654.631	820.00
33	591842.522	768656.492	820.00
34	591831.029	768669.758	820.00
35	591832.345	768674.207	820.00
36	591836.960	768674.516	820.00
37	591847.028	768661.399	820.00
38	591872.121	768629.220	821.00
39	591881.107	768610.566	822.00
40	591874.015	768618.698	822.00
41	591839.707	768647.518	822.00

DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
42	591821.309	768670.376	822.00
43	591830.158	768680.360	822.00
44	591839.475	768682.383	822.00
45	591873.381	768634.743	822.00
46	591878.408	768623.410	822.00
47	591870.993	768611.401	822.00
48	591835.046	768642.073	822.00
49	591812.626	768669.296	822.00
50	591816.878	768676.163	822.00
51	591826.939	768684.554	822.00

DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
52	591859.790	768616.097	821.00
53	591829.175	768691.478	821.00
54	591845.248	768623.074	820.00
55	591829.392	768636.373	820.00
56	591802.485	768668.860	820.00
57	591811.527	768682.131	820.00
58	591824.644	768692.966	820.00

DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
59	592129.708	768753.066	831.00
60	592123.365	768749.226	831.00
61	592178.301	768655.355	831.00
62	592134.904	768745.005	831.00
63	592131.206	768757.984	832.00
64	592113.552	768761.341	832.00
65	592112.890	768758.218	832.00
66	592223.523	768565.014	832.00
67	592138.224	768747.287	832.00
68	592134.795	768767.008	834.00

DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
69	592123.715	768766.886	834.00
70	592106.401	768768.519	834.00
71	592098.391	768766.564	834.00
72	592167.775	768649.591	834.00
73	592264.343	768473.235	834.00
74	592269.153	768470.421	834.00
75	592269.528	768476.274	834.00
76	592188.430	768661.838	834.00
77	592145.068	768751.430	834.00
78	592140.072	768759.682	834.00

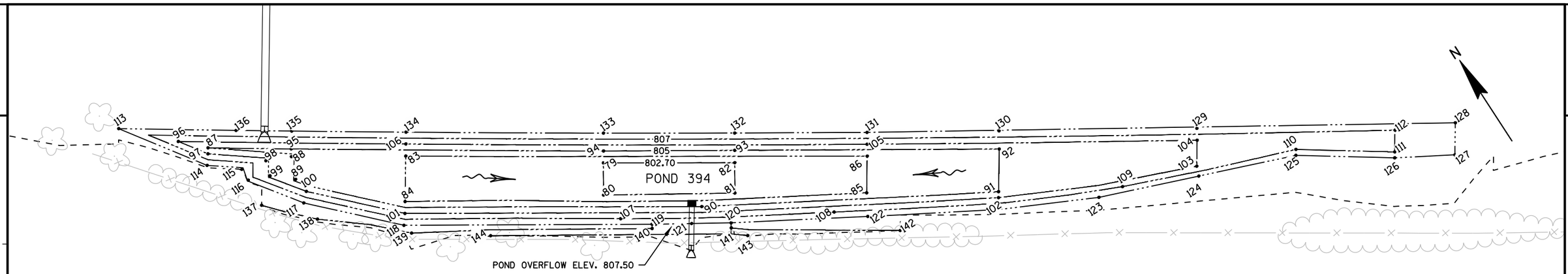


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTR. DETAILS - N CREST ST & DRY PONDS 387 LT, RT	SHEET 21	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021022_CD.DWG
LAYOUT NAME - 021022_CD

PLOT DATE : 1/22/2020 7:47 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42



DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
79	591459.136	769139.530	802.70
80	591445.468	769130.684	802.70
81	591410.043	769186.854	802.70
82	591422.934	769195.194	802.70
83	591516.617	769057.674	804.00
84	591497.467	769044.843	804.00
85	591373.744	769242.779	804.00
86	591389.148	769253.137	804.00
87	591574.628	768976.175	805.00
88	591547.902	769009.071	805.00

DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
89	591537.098	769004.544	805.00
90	591413.466	769169.089	805.00
91	591337.823	769298.958	805.00
92	591355.731	769311.000	805.00
93	591428.193	769198.599	805.00
94	591464.118	769142.874	805.00
95	591551.224	769011.114	805.00
96	591585.561	768965.331	806.00
97	591572.138	768974.502	806.00
98	591553.207	768997.147	806.00

DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
99	591545.688	768994.824	806.00
100	591529.048	769005.795	806.00
101	591492.498	769041.479	806.00
102	591335.320	769297.295	806.00
103	591293.939	769389.945	806.00
104	591304.824	769397.270	806.00
105	591394.232	769256.387	806.00
106	591521.669	769061.024	806.00
107	591430.693	769131.430	807.00
108	591374.612	769223.648	807.00

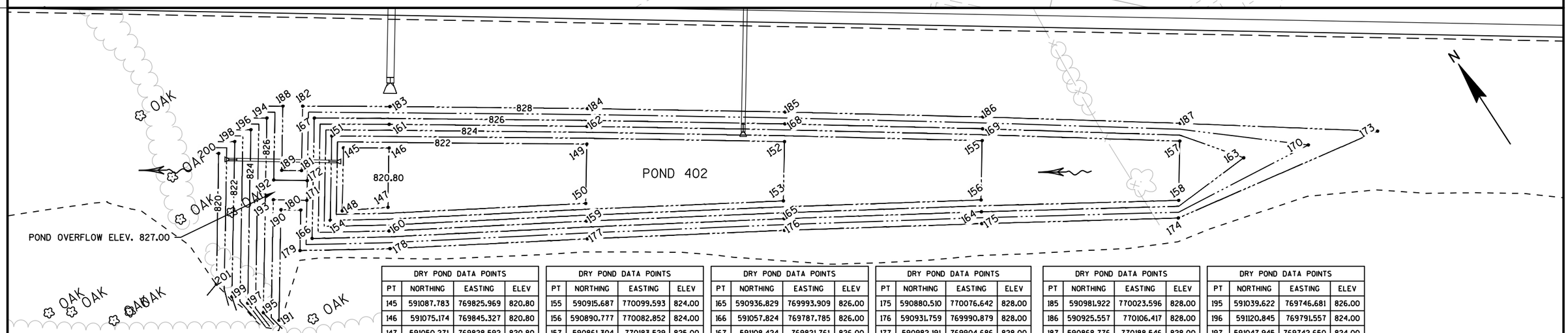
DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
109	591305.738	769352.868	807.00
110	591273.656	769436.568	807.00
111	591245.322	769477.755	807.00
112	591254.448	769483.896	807.00
113	591607.426	768943.644	808.00
114	591567.468	768970.944	808.00
115	591556.202	768984.580	808.00
116	591549.845	768984.303	808.00
117	591524.893	769001.510	808.00
118	591487.743	769037.780	808.00

DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
119	591419.707	769143.169	808.00
120	591398.451	769177.077	808.00
121	591409.079	769160.123	807.50
122	591363.448	769236.746	808.00
123	591307.718	769339.914	808.00
124	591289.171	769388.110	808.00
125	591271.166	769434.895	808.00
126	591242.824	769476.091	808.00
127	591227.477	769502.439	808.00
128	591240.929	769511.478	808.00

DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
129	591309.935	769400.478	808.00
130	591363.500	769315.922	808.00
131	591399.259	769259.600	808.00
132	591435.533	769203.352	808.00
133	591471.722	769147.740	808.00
134	591526.657	769064.332	808.00
135	591558.650	769016.254	808.00
136	591574.276	768992.873	808.00
137	591535.530	768983.004	808.00
138	591514.239	769002.797	808.00

DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
139	591482.327	769038.833	808.00
140	591417.869	769141.992	808.00
141	591396.258	769175.722	808.00
142	591348.546	769246.588	808.00
143	591388.503	769180.575	807.00
144	591459.404	769071.605	807.00

DRY POND '394'
BOTTOM: 802.7'
HW2= 805.2', Q2= 2.3 CFS
HW10= 807.2', Q10= 27 CFS
HW25= 807.9', Q25= 52 CFS
OVERFLOW ELEV. 807.50



DRY POND 402
BOTTOM: 820.8'
HW2= 822.1', Q2= 1.6 CFS
HW10= 824.7', Q10= 5.6 CFS
HW25= 826.0', Q25= 6.7 CFS
OVERFLOW ELEV. 827.00

DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
145	591087.783	769825.969	820.80
146	591075.174	769845.327	820.80
147	591050.271	769828.592	820.80
148	591061.296	769808.184	820.80
149	591022.621	769930.492	822.00
150	590997.715	769913.768	822.00
151	591096.039	769824.286	823.00
152	590969.460	770015.248	823.00
153	590944.553	769998.523	823.00
154	591060.572	769800.471	823.00

DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
155	590915.687	770099.593	824.00
156	590890.777	770082.852	824.00
157	590861.304	770183.529	825.00
158	590836.398	770166.802	825.00
159	590989.957	769909.229	825.00
160	591039.897	769822.609	825.00
161	591085.228	769851.876	825.00
162	591030.134	769935.445	825.00
163	590836.634	770206.145	826.00
164	590885.654	770079.753	826.00

DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
165	590936.829	769993.909	826.00
166	591057.824	769787.785	826.00
167	591108.424	769821.761	826.00
168	590976.934	770020.254	826.00
169	590920.622	770103.005	826.00
170	590824.417	770237.123	827.00
171	591075.469	769796.020	827.00
172	591083.771	769801.594	827.00
173	590811.289	770270.396	828.00
174	590828.991	770161.811	828.00

DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
175	590880.510	770076.642	828.00
176	590931.759	769990.879	828.00
177	590982.191	769904.686	828.00
178	591032.114	769818.121	828.00
179	591055.992	769779.328	828.00
180	591072.990	769790.742	828.00
181	591089.595	769801.891	828.00
182	591116.680	769820.078	828.00
183	591092.608	769857.034	828.00
184	591037.566	769940.526	828.00

DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
185	590981.922	770023.596	828.00
186	590925.557	770106.417	828.00
187	590868.776	770188.546	828.00
188	591122.130	769811.684	828.00
189	591095.170	769793.587	828.00
190	591078.565	769782.440	828.00
191	591032.123	769751.289	828.00
192	591093.239	769787.494	827.00
193	591084.935	769781.923	827.00
194	591121.450	769801.599	826.00

DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
195	591039.622	769746.681	826.00
196	591120.845	769791.557	824.00
197	591047.945	769742.650	824.00
198	591120.238	769781.450	822.00
199	591055.057	769737.707	822.00
200	591119.606	769771.373	820.00
201	591064.610	769734.546	820.00

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS - DRY POND LAYOUT (394 AND 402)	SHEET 22	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021022_CD.DWG
LAYOUT NAME - 021023_CD
PLOT DATE : 1/22/2020 7:48 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 50'_XREF
WISDOT/CADDS SHEET 44

BEGIN CONSTRUCTION
STA 18'M'+62.80
N=592563.12
E=767528.70

SAWCUT REQUIRED
STA 18'M'+62.80 TO
STA 28'M'+71.26

B-44-291

R-44-18

N

18'M' 19'M' 20'M' 21'M' 22'M' 23'M' 24'M'

CTH M

CONCRETE CURB & GUTTER 30-INCH TYPE D

SEE STORM SEWER PLAN

B-44-292

R-44-19

374EB

374WB

2-INCH REMOVING ASPHALTIC SURFACE MILLING,
2-INCH HMA PAVEMENT 4LT58-28S
STA 18+62.80 - 23+86
MATCH EXISTING

12' +75 RT

22.50' +17 RT

22.50' +81 RT

CONCRETE SURFACE
DRAIN (TYP)

SLOPE INTERCEPT
(TYP)

R/W

CTH M CURB GRADES		
STA	O/S	ELEV
18+62.80	20' RT	793.26
19+00	20' RT	792.43
19+50	20' RT	791.63
20+00	20' RT	790.74
20+50	20' RT	789.94
21+00	20' RT	789.29
21+50	20' RT	788.68
22+00	20' RT	788.00
22+50	20' RT	787.27
23+00	20' RT	786.71
23+15	20' RT	786.53

DIMENSIONS AND RADII TO CURB FLANGE
LINE UNLESS OTHERWISE NOTED.

LONE HICKORY LN

SAWCUT REQUIRED
STA 18'M'+62.80 TO
STA 28'M'+71.26

STA 10'MM'+00.00 =
STA 27'M'+00.03
TYPE "B2" INTERSECTION

END CONSTRUCTION
STA 28'M'+55.18
N=593555.37
E=767548.94

N

24'M' 25'M' 26'M' 27'M' 28'M' 29'M' 30'M'

CTH M

90°

12'

783.41

3' SHOULDER
(2' PAVED)

24' +25 RT

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

782.02

+67'M',61
41.52' RT

R60'

CTH M, STA 26'M'+25.24, 84' RT
CTH MM, STA 10'MM'+83.81, 75' RT

+84
15' RT

781.76

STA 10'MM'+64 & 10'MM'+72
2-24"x38" CPRCHE CL IV
4 AEW REQ'D

11'MM'

CTH MM

12'

782.22

782.40

+25'M',61
31.06' LT

R40'

24' +55 RT

+64
15' LT

781.82

CTH M, STA 27'M'+55.19, 64' RT
CTH MM, STA 10'MM'+64.14, 55' LT

3'

15' +35 RT

12' +55 RT

R/W

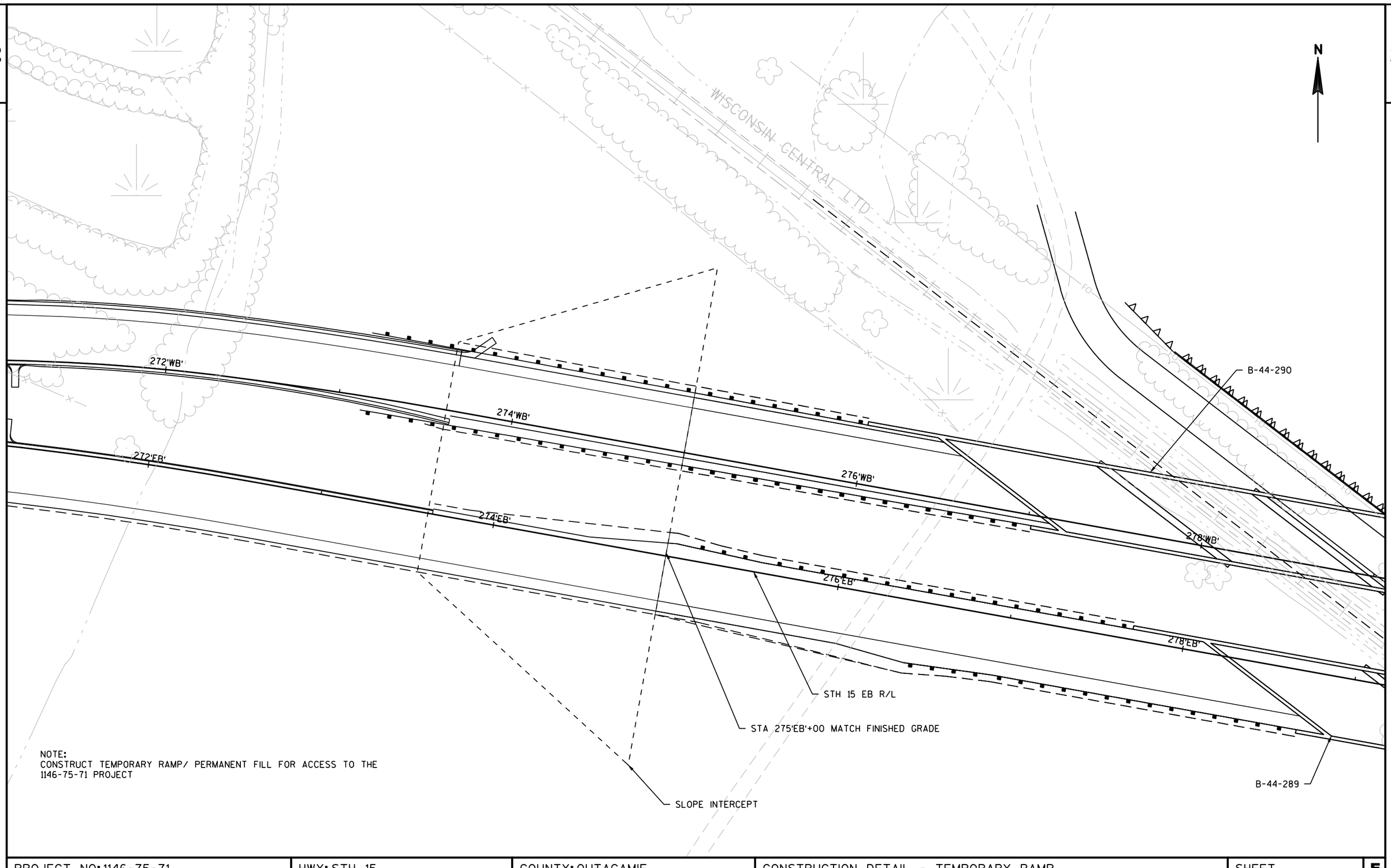
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	INTERSECTION DETAILS - CTH M & CTH MM	SHEET 23	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021103_ID (CTH M & MM).DWG
LAYOUT NAME - 021103_ID

PLOT DATE : 1/22/2020 7:50 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:40 FT

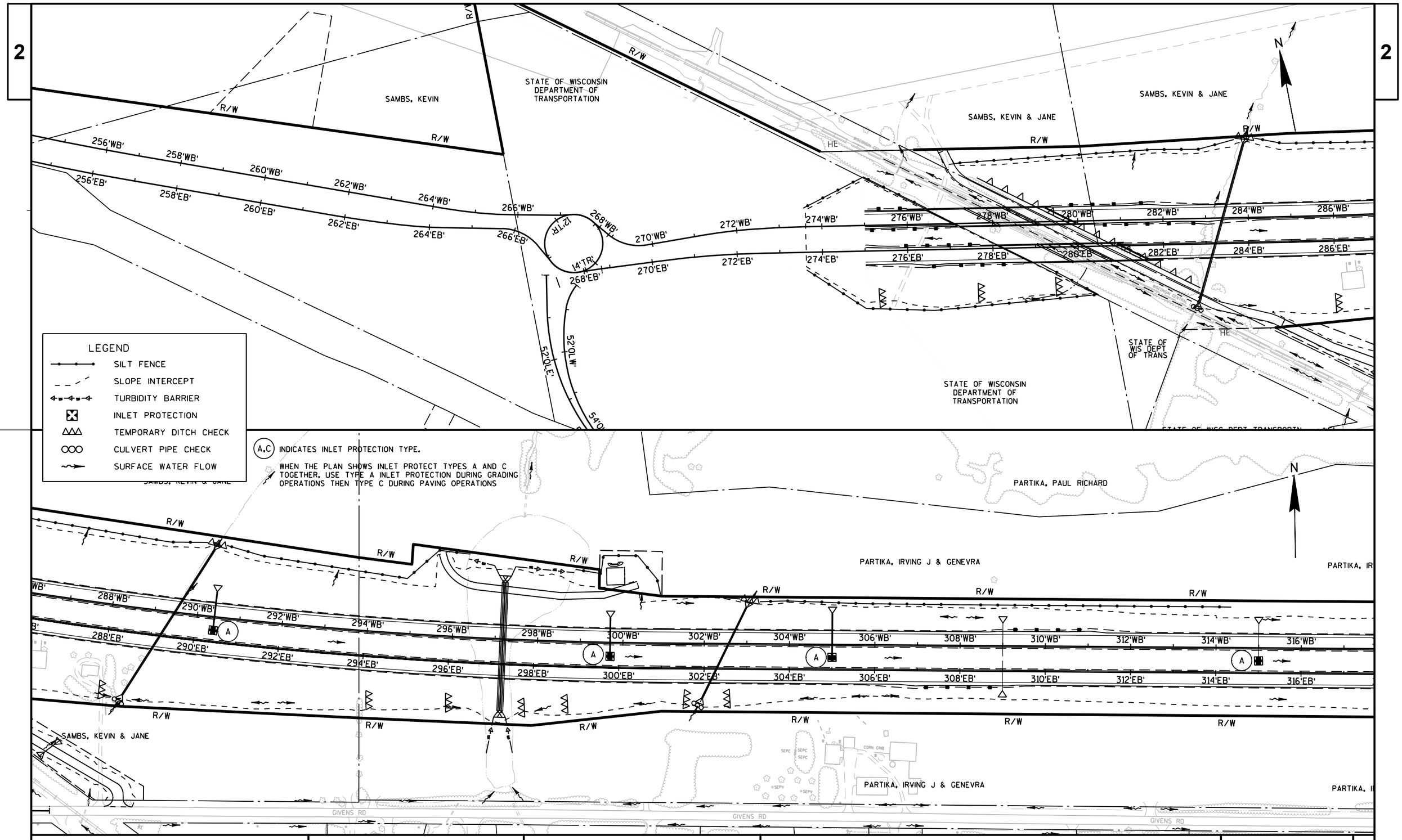
WISDOT/CADDS SHEET 44

2



NOTE:
CONSTRUCT TEMPORARY RAMP/ PERMANENT FILL FOR ACCESS TO THE 1146-75-71 PROJECT

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAIL - TEMPORARY RAMP	SHEET 24	E



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	TEMPORARY EROSION CONTROL - STH 15	SHEET 25	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_022001_EC.DWG
LAYOUT NAME - 022001-EC

PLOT DATE : 1/22/2020 7:53 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1IN : 200FT_XREF

WISDOT/CADDS SHEET 44

2

2

N

SYKES, JAMES I & MARIANN D

PARKER, DON E & MARGARET E

PARTIKA, IRVING J & GENEVRA

SEE BLACK OTTER CREEK CONSTRUCTION DETAILS

R/W

318'WB' 320'WB' 322'WB' 324'WB' 326'WB' 328'WB' 330'WB' 332'WB' 334'WB' 336'WB' 338'WB' 340'WB' 342'WB' 344'WB' 346'WB' 348'

318'EB' 320'EB' 322'EB' 324'EB' 326'EB' 328'EB' 330'EB' 332'EB' 334'EB' 336'EB' 338'EB' 340'EB' 342'EB' 344'EB' 346'EB' 348'

A

PARTIKA, IRVING J & GENEVRA

SYKES, JAMES I & MARIANN D

PARKER, DON E & MARGARET E

LEGEND

- SILT FENCE
- SLOPE INTERCEPT
- TURBIDITY BARRIER
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

A,C INDICATES INLET PROTECTION TYPE.

WHEN THE PLAN SHOWS INLET PROTECT TYPES A AND C TOGETHER, USE TYPE A INLET PROTECTION DURING GRADING OPERATIONS THEN TYPE C DURING PAVING OPERATIONS

GRANT, DARLENE R & BRUCE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

THE ESTATE OF EMELINE A BREITRICK

GRAND VIEW GOLF CLUB INC

SCHERNICK, MICHAEL S

BREITRICK, MARK

348'WB' 350'WB' 352'WB' 354'WB' 356'WB' 358'WB' 360'WB' 362'WB' 364'WB' 366'WB' 368'WB' 370'WB' 372'WB' 374'WB' 376'WB' 378'WB'

348'EB' 350'EB' 352'EB' 354'EB' 356'EB' 358'EB' 360'EB' 362'EB' 364'EB' 366'EB' 368'EB' 370'EB' 372'EB' 374'EB' 376'EB' 378'EB' 380

A,C

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

VILLAGE OF HORTONVILLE

THE ESTATE OF EMELINE A BREITRICK

12"NCP

FINK, KEITH A

24'W

22'W

20'W

18'W

16'W

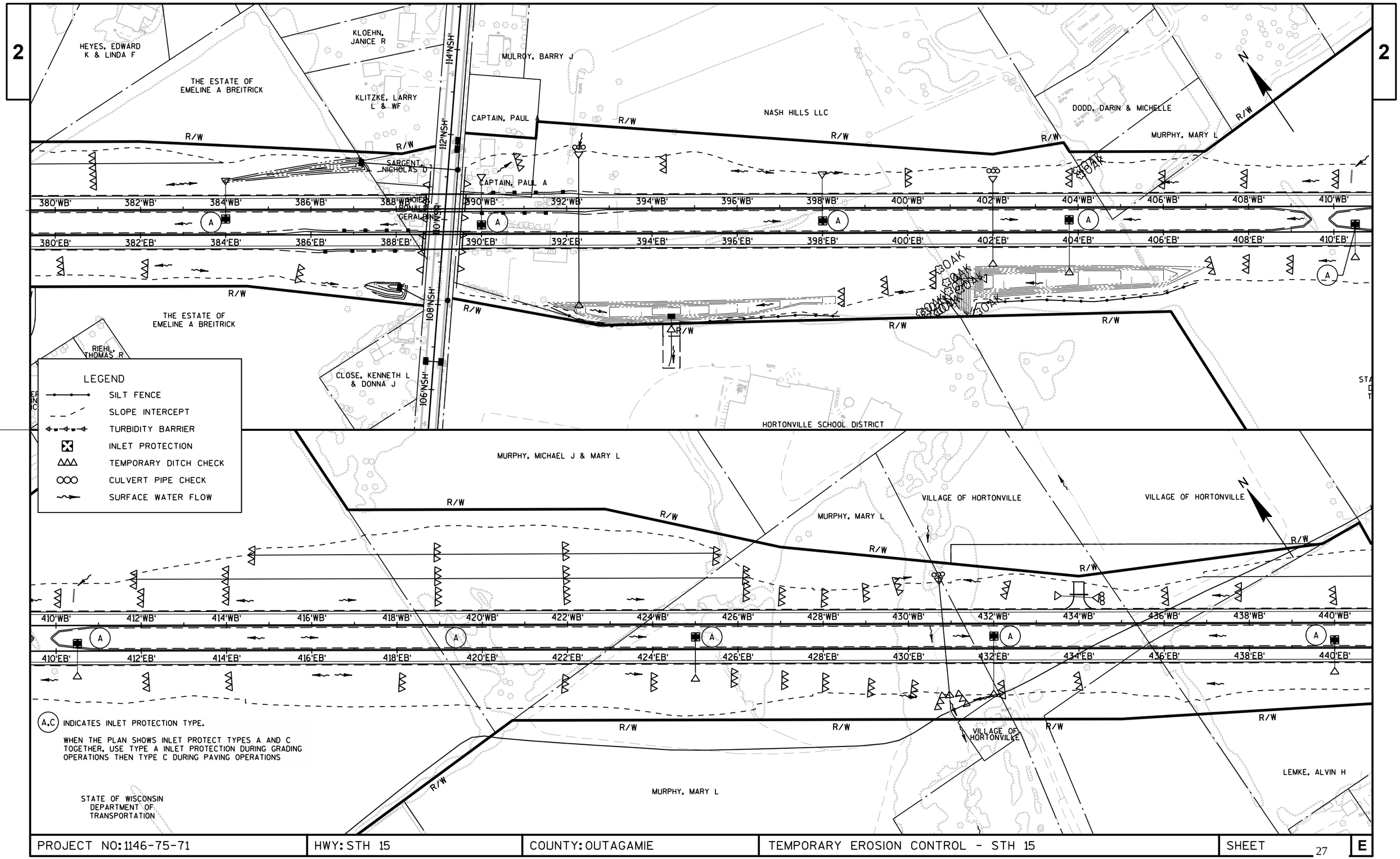
CTH MM

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	TEMPORARY EROSION CONTROL - STH 15	SHEET 26	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_022001_EC.DWG
LAYOUT NAME - 022002-EC

PLOT DATE : 1/22/2020 7:54 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1IN : 200FT_XREF

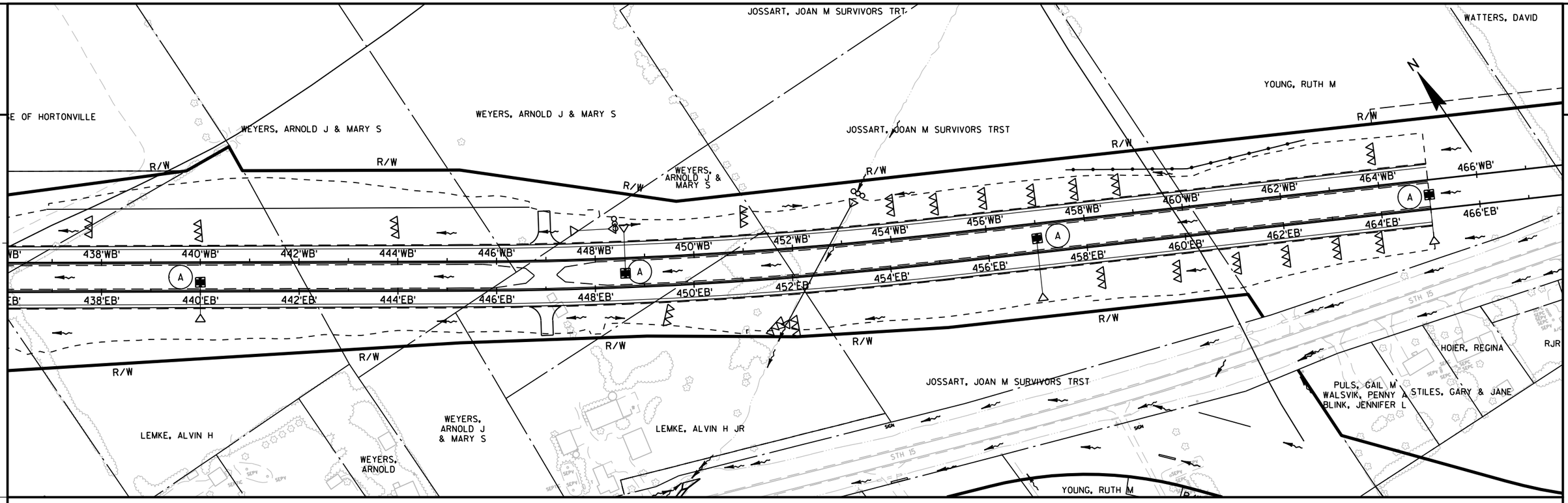
WISDOT/CADDS SHEET 44



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	TEMPORARY EROSION CONTROL - STH 15	SHEET 27	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_022001_EC.DWG
LAYOUT NAME - 022003-EC
PLOT DATE : 1/22/2020 7:55 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1IN : 200FT_XREF
WISDOT/CADDS SHEET 44

2



LEGEND

- SILT FENCE
- SLOPE INTERCEPT
- TURBIDITY BARRIER
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

(A,C) INDICATES INLET PROTECTION TYPE.

WHEN THE PLAN SHOWS INLET PROTECT TYPES A AND C TOGETHER, USE TYPE A INLET PROTECTION DURING GRADING OPERATIONS THEN TYPE C DURING PAVING OPERATIONS

2

HOUSING AUTHORITY
VILLAGE OF HORTONVILLE
VILLAGE OF HORTONVILLE
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
LONE HICKORY LN
JOHN ST
SETZER, KYLE M
BUCHMAN, KEVIN
THOMPSON, MANDIE
LAIRD, DANIEL J & W
ROSE, CRAIG & DIANA T
R/W
SEPTIC
POOL
FOUND
312'EB'
312'WB'
310'WB'
12'M'
14'M'
16'M'
18'M'
20'M'
22'M'
24'M'
26'M'
28'M'
30'M'
CTH M
N
BREITRICK, WAYNE I
HANSEN, DEBRA
DERKS, THOMAS M
TESSEN, JAMES L & WF
FINK, KEITH A
THE ESTATE OF EMELINE A BREITRICK
A,C
WUNDERLICH, MARK A & KIM B
BELLILE, JEREMY M
MODER, LLOYD & GLADYS J
STOIBER, JACOB D
JUSTMANN, DAVID A & LINDA D
JUSTMANN, DAVID A & LINDA D
BAKER, MARTIN M & JANICE M
POLACEK, ANTON & BRENDA SUE
RIEHL, THOMAS R
HARRIS WAY
VILLAGE OF HORTONVILLE
JANDOUREK, ALEXIA L
316'EB'
316'WB'
318'EB'
318'WB'
380'EB'
380'WB'
12'NCR'
BREITRICK, MARK
THE ESTATE OF EMELINE A BREITRICK
THE ESTATE OF EMELINE A BREITRICK
CAMPSHURE,
LILLGE, DREW M & WILHELMI
THE ESTATE OF EMELINE A BREITRICK
WAGNER, LISA K
ROUGEUX, ALAN P & MELODY L
GASSER, GARY S
OAK
LONE HICKORY LN
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
368'WB'
368'EB'
310'WB'
370'EB'
312'WB'
22'M'
24'M'
M/R
THE ESTATE OF EMELINE A BREITRICK
ALBRECHT, BRUCE & DIANE
MERKT, PAUL J
MONROE, JAMES J & MARGIE A
CISMOSKI, JAMES H
KORPELA, GERALD & ARDYTHE

LEGEND

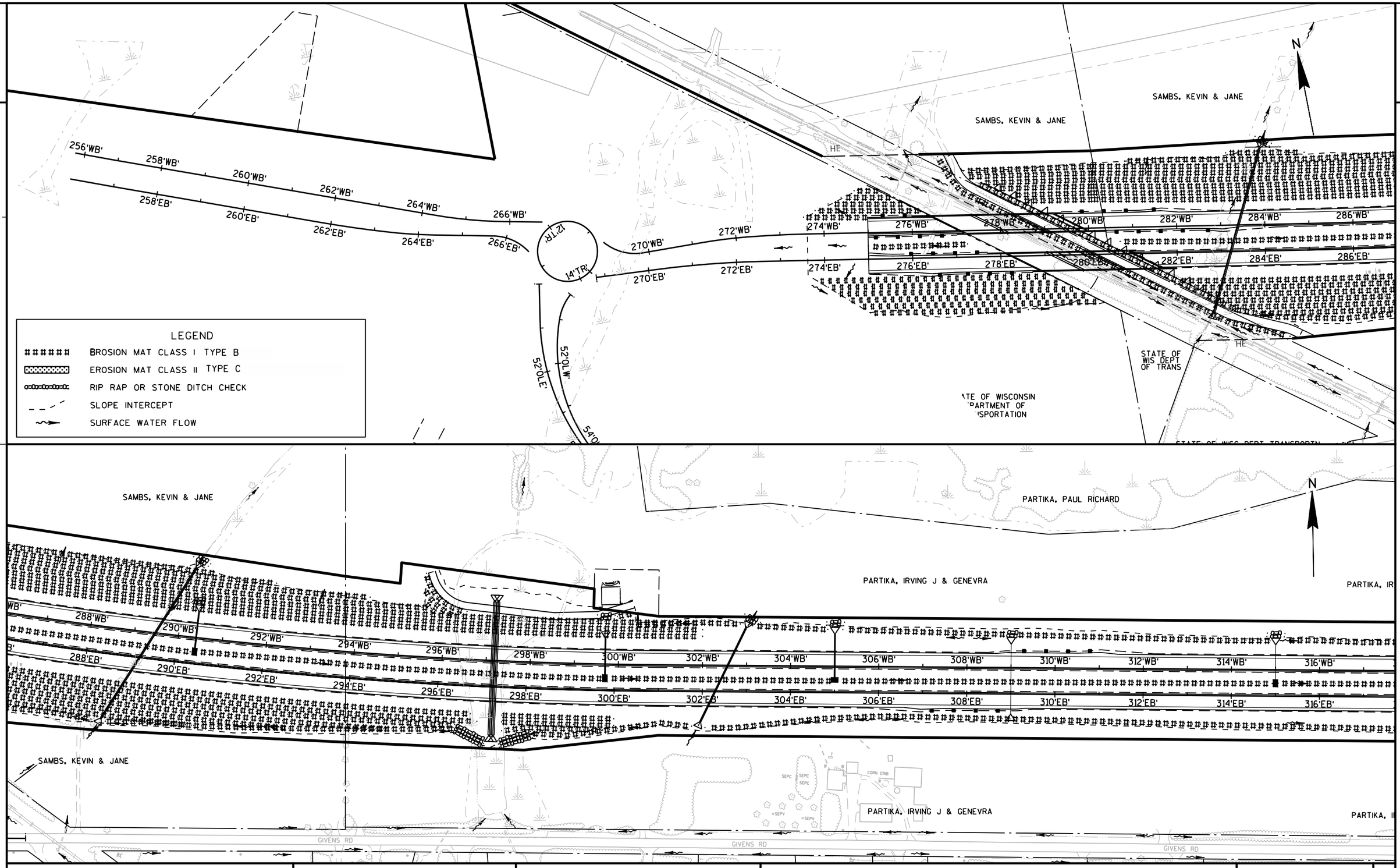
- SILT FENCE
- SLOPE INTERCEPT
- TURBIDITY BARRIER
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- (A,C) INDICATES INLET PROTECTION TYPE.

WHEN THE PLAN SHOWS INLET PROTECT TYPES A AND C TOGETHER, USE TYPE A INLET PROTECTION DURING GRADING OPERATIONS THEN TYPE C DURING PAVING OPERATIONS

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	TEMPORARY EROSION CONTROL - CTH M, CTH MM, N CREST ST.	SHEET 29	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_022001_EC.DWG
LAYOUT NAME - 022005-EC
PLOT DATE : 1/22/2020 7:56 AM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1IN : 200FT_XREF
WISDOT/CADDS SHEET 44

2



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT EROSION CONTROL - STH 15	SHEET 30	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_022006_EC.DWG
LAYOUT NAME - 022006-EC

PLOT DATE : 1/26/2021 12:46 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1IN : 200FT_XREF

2

2

N

SYKES, JAMES I & MARIANN D

PARKER, DON E & MARGARET E

PARTIKA, IRVING J & GENEVRA

SEE CONSTRUCTION DETAILS
FOR PERMANENT EROSION CONTROL AT BLACK OTTER CREEK

318'WB' 320'WB' 322'WB' 324'WB' 326'WB' 328'WB' 330'WB' 332'WB' 334'WB' 336'WB' 338'WB' 340'WB' 342'WB' 344'WB' 346'WB' 348'

318'EB' 320'EB' 322'EB' 324'EB' 326'EB' 328'EB' 330'EB' 332'EB' 334'EB' 336'EB' 338'EB' 340'EB' 342'EB' 344'EB' 346'EB' 348'

PARTIKA, IRVING J & GENEVRA

SYKES, JAMES I & MARIANN D

PARKER, DON E & MARGARET E

GIVENS RD

STATE OF WISCONSIN
DEPARTMENT OF
TRANSPORTATION

GRANT,
DARLENE R
& BRUCE

THE ESTATE OF
EMELINE A BREITRICK

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- SURFACE WATER FLOW

GRAND VIEW GOLF CLUB INC

SCHERNICK, MICHAEL S

RIPRAP MEDIUM
BREITRICK, MARK

350'WB' 352'WB' 354'WB' 356'WB' 358'WB' 360'WB' 362'WB' 364'WB' 366'WB' 368'WB' 370'WB' 372'WB' 374'WB' 376'WB' 378'WB'

348'EB' 350'EB' 352'EB' 354'EB' 356'EB' 358'EB' 360'EB' 362'EB' 364'EB' 366'EB' 368'EB' 370'EB' 372'EB' 374'EB' 376'EB' 378'EB'

RIP RAP MEDIUM

VILLAGE OF HORTONVILLE

VILLAGE OF HORTONVILLE

THE ESTATE OF
EMELINE A BREITRICK

PERMANENT STONE
DITCH CHECK

FINK,
KEITH A

SCHERNICK, MICHAEL S

GRAND VIEW GOLF CLUB INC

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT EROSION CONTROL - STH 15	SHEET 31	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_022006_EC.DWG
LAYOUT NAME - 022007-EC

PLOT DATE : 1/26/2021 12:47 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1IN : 200FT_XREF

WISDOT/CADDS SHEET 44

2

HEYES, EDWARD K & LINDA F

THE ESTATE OF EMELINE A BREITRICK

KLOEHN, JANICE R

KLITZKE, LARRY L & WF

114'NSH'

112'NSH'

MULROY, BARRY J

CAPTAIN, PAUL

CAPTAIN, PAUL A

NASH HILLS LLC

DODD, DARIN & MICHELLE

MURPHY, MARY L

SARGENT, NICHOLAS D

OAK

380'WB' 382'WB' 384'WB' 386'WB' 388'WB' 390'WB' 392'WB' 394'WB' 396'WB' 398'WB' 400'WB' 402'WB' 404'WB' 406'WB' 408'WB' 410'WB'

380'EB' 382'EB' 384'EB' 386'EB' 388'EB' 390'EB' 392'EB' 394'EB' 396'EB' 398'EB' 400'EB' 402'EB' 404'EB' 406'EB' 408'EB' 410'EB'

PERMANENT STONE DITCH CHECK

THE ESTATE OF EMELINE A BREITRICK

RIEHL, THOMAS R

POLACEK, ANTON & BRENDA SUE

JUSTMANN, DAVID A & LINDA D

CLOSE, KENNETH L & DONNA J

108'NSH'

106'NSH'

HORTONVILLE SCHOOL DISTRICT

MURPHY, MICHAEL J & MARY L

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

VILLAGE OF HORTONVILLE

MURPHY, MARY L

RIP RAP MEDIUM

410'WB' 412'WB' 414'WB' 416'WB' 418'WB' 420'WB' 422'WB' 424'WB' 426'WB' 428'WB' 430'WB' 432'WB' 434'WB' 436'WB' 438'WB' 440'WB'

410'EB' 412'EB' 414'EB' 416'EB' 418'EB' 420'EB' 422'EB' 424'EB' 426'EB' 428'EB' 430'EB' 432'EB' 434'EB' 436'EB' 438'EB' 440'EB'

VILLAGE OF HORTONVILLE

PERMANENT STONE DITCH CHECK

LEMKE, ALVIN H

MURPHY, MARY L

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- SURFACE WATER FLOW

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT EROSION CONTROL - STH 15	SHEET 32	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_022006_EC.DWG
LAYOUT NAME - 022008-EC
PLOT DATE : 1/26/2021 12:48 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1IN : 200FT_XREF
WISDOT/CADDS SHEET 44

2

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- SURFACE WATER FLOW

JOSSART, JOAN M SURVIVORS TRT

WATTERS, DAVID

YOUNG, RUTH M

WEYERS, ARNOLD J & MARY S

RIP RAP MEDIUM

JOSSART, JOAN M SURVIVORS TRST

WEYERS, ARNOLD J & MARY S

438'WB' 440'WB' 442'WB' 444'WB' 446'WB' 448'WB' 450'WB' 452'WB' 454'WB' 456'WB' 458'WB' 460'WB' 462'WB' 464'WB' 466'WB'

438'EB' 440'EB' 442'EB' 444'EB' 446'EB' 448'EB' 450'EB' 452'EB' 454'EB' 456'EB' 458'EB' 460'EB' 462'EB' 464'EB' 466'EB'

PERMANENT STONE DITCH CHECK

JOSSART, JOAN M SURVIVORS TRST

HOIER, REGINA

RJR

PULS, GAIL M
WALSVIK, PENNY A
BLINK, JENNIFER L

STILES, GARY & JANE

STH 15

LEMKE, ALVIN H

WEYERS, ARNOLD J & MARY S

WEYERS, ARNOLD

LEMKE, ALVIN H JR

STH 15

YOUNG, RUTH M

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT EROSION CONTROL - STH 15	SHEET 33	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_022006_EC.DWG
LAYOUT NAME - 022009-EC

PLOT DATE : 1/26/2021 12:49 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1IN : 200FT_XREF

2

LEGEND

- EROSION MAT CLASS I B
- EROSION MAT CLASS II TYPE C
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- SURFACE WATER FLOW

WUNDERLICH, SHIRLEY
SETZER, KYLE M
BUCHMAN, KEVIN
THOMPSON, MANDIE
DIANA T
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
LONE HICKORY LN
CTH M
12'M' 14'M' 16'M' 18'M' 20'M' 22'M' 24'M' 26'M' 28'M' 30'M'
RS, EMERY
BREITRICK, WAYNE I
HANSEN, DEBRA
DERKS, THOMAS M
TESSEN, JAMES L & WF
FINK, KEITH A
THE ESTATE OF EMELINE A BREITRICK
WUNDERLICH, MARK A & KIM B
BELLILE, JEREMY M
VILLAGE OF HORTONVILLE
MODER, LLOYD & GLADYS J
STOIBER, JACOB D
BAKER, MARTIN M & JANICE M
JANDOUREK, ALEXIA L
JUSTMANN, DAVID A & LINDA D
POLACEK, ANTON & BRENDA SUE
JUSTMANN, DAVID A & LINDA D
RIEHL, THOMAS R
HARRIS WAY
12'NCR'
BREITRICK, MARK
370'EB 370'WB 372'EB 372'WB 374'EB 374'WB 376'EB 376'WB 378'EB 378'WB 380'EB 380'WB
LILLGE, DREW M & WILHELMI
30'M'
28'M'
26'M'
24'M'
22'M'
LONE HICKORY LN
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
368'WB 368'EB 370'WB 370'EB 372'WB
WAGNER, LISA K
OAK
ROUGEUX, ALAN P & MELODY L
GASSER, GARY S
VATLAND, LARRY A & THERESA
HILKER, LYLE J & DEBRA J
ALBRECHT, BRUCE & DIANE
MERKT, PAUL J
MONROE, JAMES J & MARGIE A
MILLER, STEVEN J
CISMOSKI, JAMES H
KORPELA, GERALD & ARDYTHE
SIEGEL, MARK S LIVING TRUST
12MM 14MM 16MM 18MM 20MM 22MM 24MM 26MM 28MM 30MM
PERMANENT STONE DITCH CHECK
N

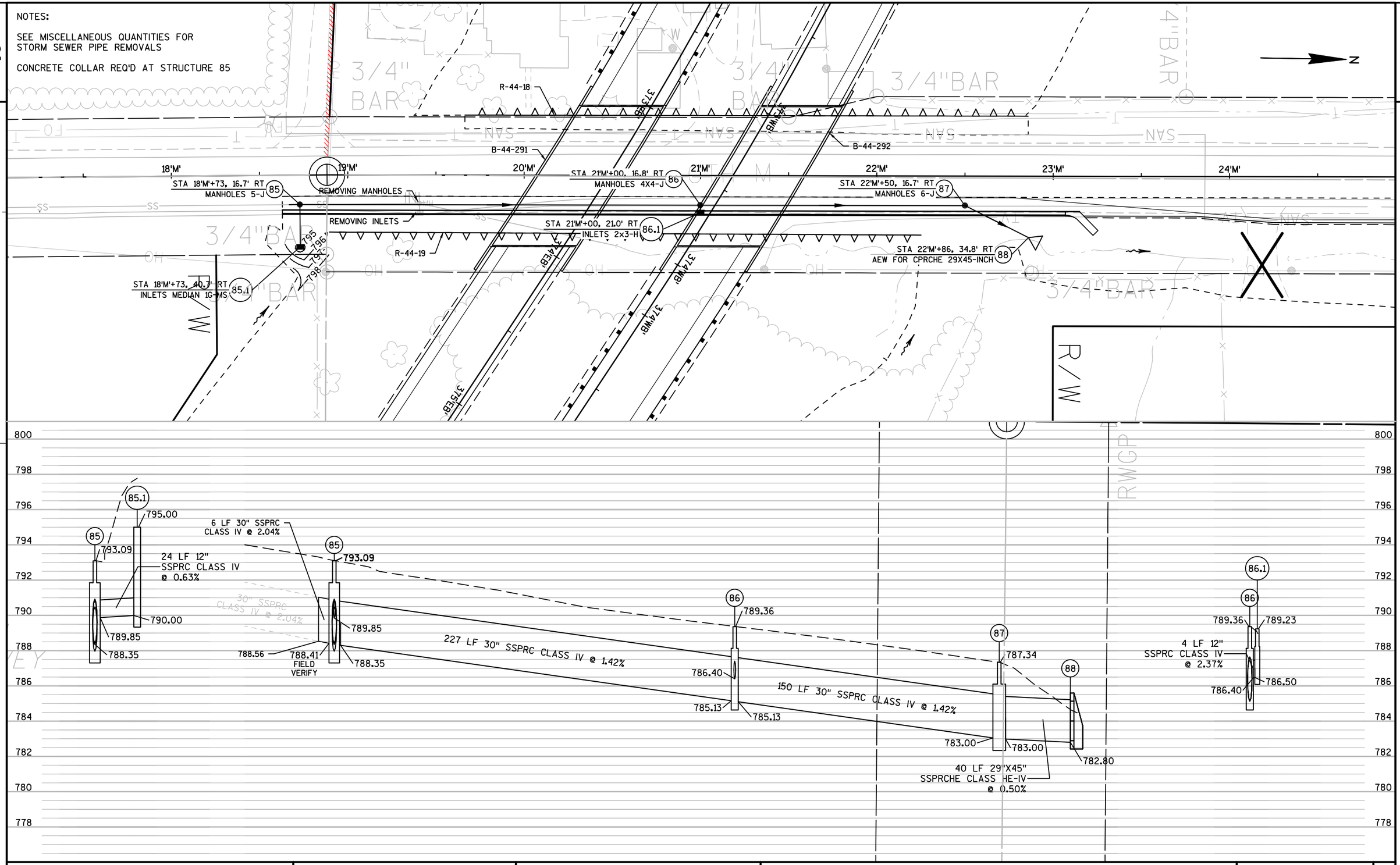
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT EROSION CONTROL - CTH M, CTH MM, N CREST ST.	SHEET 34	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_022006_EC.DWG
LAYOUT NAME - 022010-EC
PLOT DATE : 1/26/2021 12:50 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1IN : 200FT_XREF
WISDOT/CADDS SHEET 44

NOTES:

SEE MISCELLANEOUS QUANTITIES FOR STORM SEWER PIPE REMOVALS

CONCRETE COLLAR REQ'D AT STRUCTURE 85



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER - CTH M	SHEET 35	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_022502_SS.DWG
LAYOUT NAME - 022502_SS

PLOT DATE : 10/25/2017 9:06 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 50'_XREF

WISDOT/CADDS SHEET 41

NOTES:

FOR 12-INCH STORM SEWER CORE DRILLING REQ'D AT STRUCTURE 1.1
2 CONCRETE COLLARS REQ'D AT STRUCTURE 2.0

POND '387 RT'

POND '387 LT'

STA 108'NSH'+33, 92.1' LT
INLET MEDIAN 1G-MS (1.2)

POND OVERFLOW ELEV. 822.00

STA 108'NSH'+08, 34.1' LT
Cylindrical Junction Structure (1.1)

STA 111'NSH'+18, 204.4' LT
INLET MEDIAN 1G-MS (2.1)

ASPHALTIC SURFACE PATCHING 4"

MATCH EXISTING CURB & GUTTER AND ROADWAY GRADES

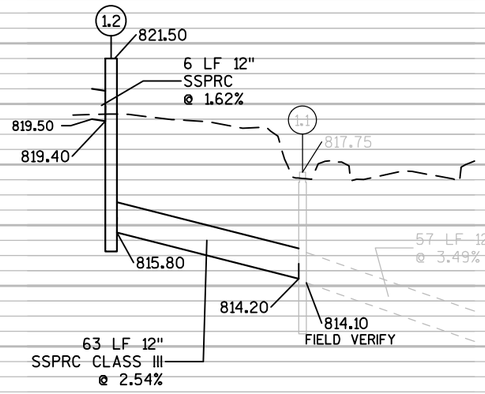
STA 111'NSH'+18, 22.9' RT
MANHOLES 4-C (2.0)

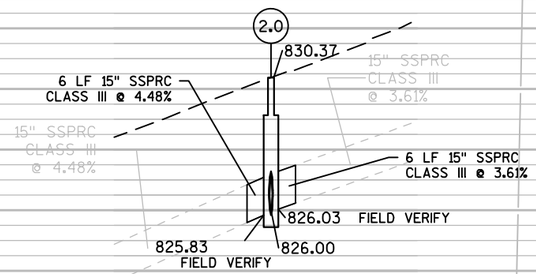
387'EB'
387'WB'
388'EB'
388'WB'
389'EB'
389'WB'

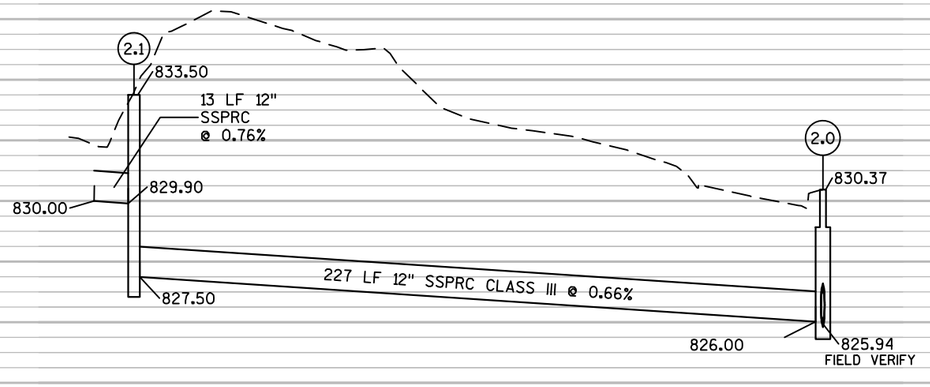
R-44-20
R-44-21
B-44-293
B-44-294

N NASH ST

107'NSH' 108'NSH' 109'NSH' 110'NSH' 111'NSH' 112'NSH' 113'NSH' 114'NSH'







PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	STORM SEWER - NASH STREET	SHEET 36	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_022503_SS.DWG
LAYOUT NAME - 022503_SS

PLOT DATE : 10/25/2017 3:14 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 50'_XREF

WISDOT/CADDS SHEET 41

2

MULROY, BARRY J

CAPTAIN, PAUL A

R/W

R/W

R/W

R/W

HOIER, RONALD & GERALDINE

390'WB' 392'WB' 394'WB' 396'WB' STH 15 398'WB' 400'WB' 402'WB'

390'EB' 392'EB' 394'EB' 396'EB' STH 15 398'EB' 400'EB' 402'EB'

34'

CENTER PLANTINGS WITHIN 10' TERRACE

AA 3 | PB 1 | AA 3 | RD 3 | AA 5 | PB 1 | RD 3 | PB 1 | AA 3 | PB 1 | RD 5 | RD 3 | AA 1 | PB 1 | AA 3 | PB 1 | RD 3 | RD 5 | RD 3 | AA 3 | PB 1 | AA 3 | RD 5 | RD 5 | RD 5 | AA 2 | PB 1 | AA 2 | RD 3 | RD 5 | RD 2 | PB 1

N NASH ST

POND '394'

POND '402'

R/W

R/W

R/W

PLE

TLE

SEPC

HORTONVILLE SCHOOL DISTRICT

INL

MH

W

RUINS

SEPV

LEGEND

aba / xx — PLANT SYMBOL / QUANTITY

PB = PAPER BIRCH

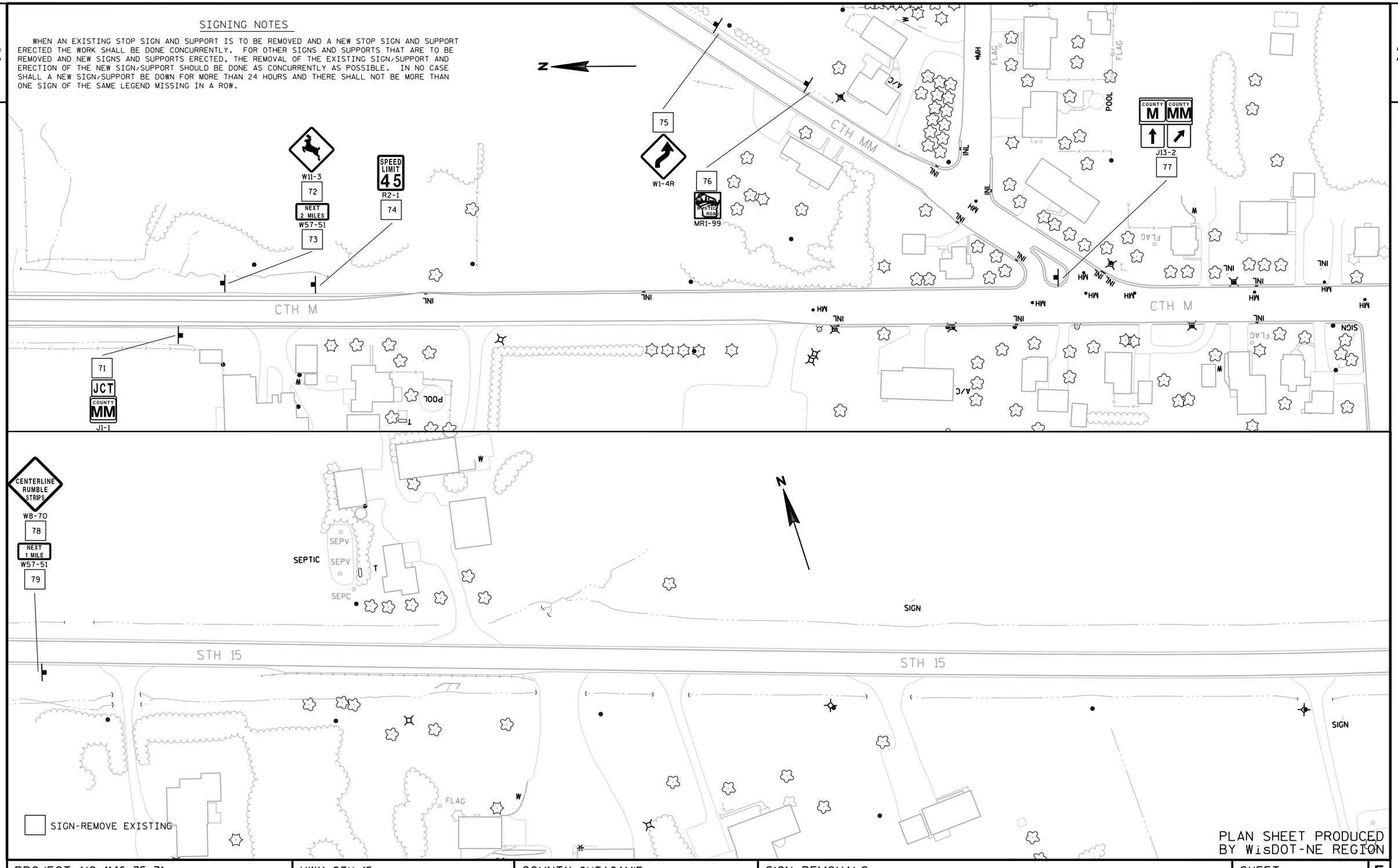
AA = AMERICAN ARBOR VITAE

RD = REDOSIER DOGWOOD

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	LANDSCAPING - HIGH SCHOOL SCREENING	SHEET 37	E

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.



PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	SIGN REMOVALS	SHEET 38 E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1146-75-00 STH 15 Bypass\1146-75-71\023208_ps.dgn PLOT DATE : 10-APR-2017 09:51 PLOT BY : dotets PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

N

N OLK ST

CTH M

CTH MM

NORTH CREST RD

W5-56
18" X 18"
345

W5-56
18" X 18"
346

W5-56
18" X 18"
344

339
JCT
COUNTY
MM
JI-1
24" X 39"

340
COUNTY
MM
JI3-1
24" X 45"

341
A
RUSTIC ROAD
MR1-99
24" X 24"

341
STOP
RI-1
30" X 30"

342
COUNTY
M
JI3-1
24" X 45"

342
A
COUNTY
MM
JI3-1
24" X 45"

342
B
JCT
COUNTY
MM
JI-1
24" X 39"

JCT
COUNTY
M
JI-1
24" X 39"
343

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

LEGEND

- WOOD POST WITH SIGN
- STEEL POST AND V-LOCK WITH SIGN
- SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT SIGNING	SHEET 39 E

2

2

N

22'M'

24'M'

26'M'

28'M'

12'MM'

MWE4 EPOXY

MW8 EPOXY

MWE4 EPOXY

MWE4 EPOXY

MDY4 EPOXY

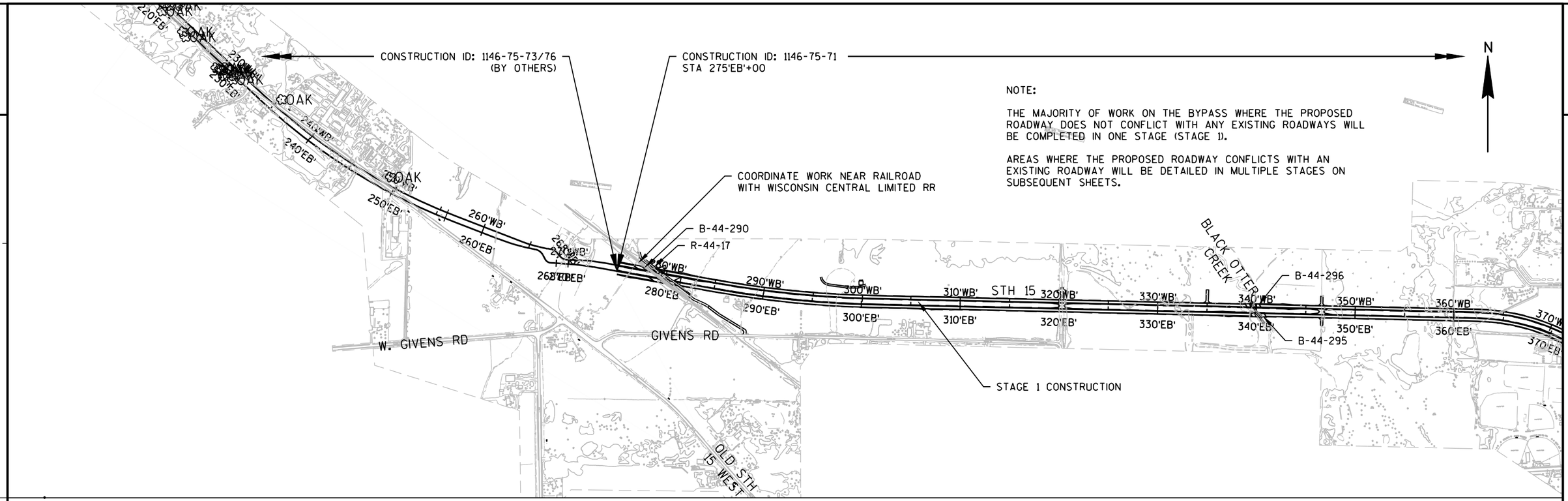
MWE4 EPOXY

MWE4	4-INCH (WHITE EDGE LINE)
MDY4	4-INCH DOUBLE YELLOW
MW8	8-INCH (WHITE CHANNELIZING)

NOTE:

REFER TO "PAVEMENT MARKING (MAINLINE)" FOR ADDITIONAL DETAILS.

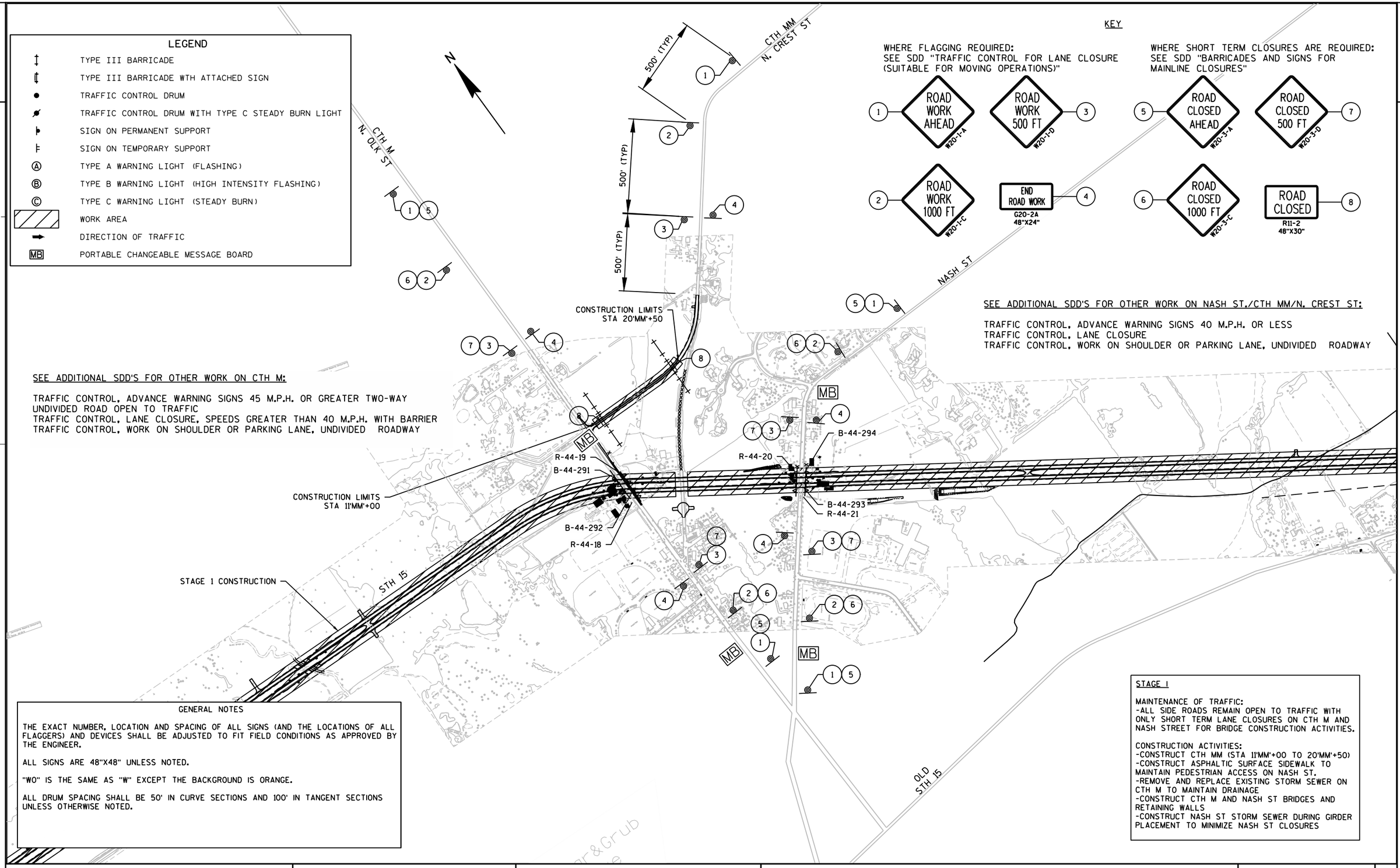
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PAVEMENT MARKING - CTH M & MM	SHEET 40	E



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - PROJECT OVERVIEW	SHEET 41	E

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD



KEY

WHERE FLAGGING REQUIRED:
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)"

1. ROAD WORK AHEAD W20-1-A
2. ROAD WORK 1000 FT W20-1-C
3. ROAD WORK 500 FT W20-1-D
4. END ROAD WORK G20-2A 48"X24"

WHERE SHORT TERM CLOSURES ARE REQUIRED:
SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES"

5. ROAD CLOSED AHEAD W20-3-A
6. ROAD CLOSED 1000 FT W20-3-C
7. ROAD CLOSED 500 FT W20-3-D
8. ROAD CLOSED R11-2 48"X30"

SEE ADDITIONAL SDD'S FOR OTHER WORK ON NASH ST./CTH MM/N. CREST ST:

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
TRAFFIC CONTROL, LANE CLOSURE
TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

SEE ADDITIONAL SDD'S FOR OTHER WORK ON CTH M:

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER
TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS (AND THE LOCATIONS OF ALL FLAGGERS) AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48"X48" UNLESS NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

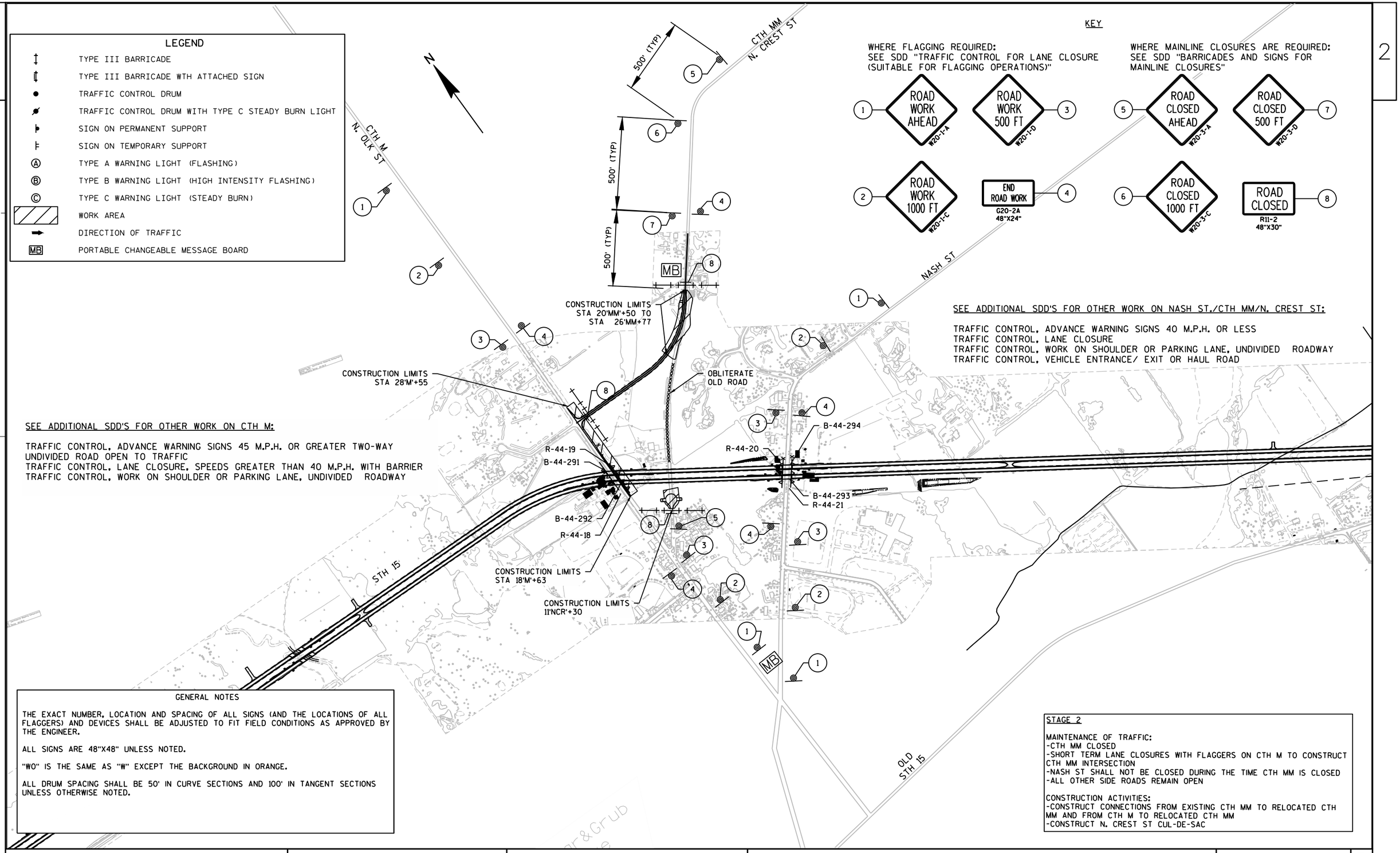
ALL DRUM SPACING SHALL BE 50' IN CURVE SECTIONS AND 100' IN TANGENT SECTIONS UNLESS OTHERWISE NOTED.

STAGE 1

MAINTENANCE OF TRAFFIC:
-ALL SIDE ROADS REMAIN OPEN TO TRAFFIC WITH ONLY SHORT TERM LANE CLOSURES ON CTH M AND NASH STREET FOR BRIDGE CONSTRUCTION ACTIVITIES.

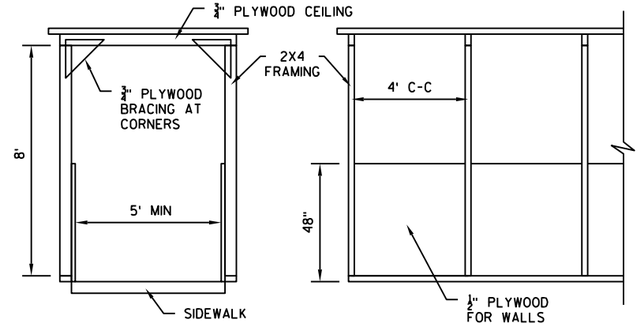
CONSTRUCTION ACTIVITIES:
-CONSTRUCT CTH MM (STA 11'MM'+00 TO 20'MM'+50)
-CONSTRUCT ASPHALTIC SURFACE SIDEWALK TO MAINTAIN PEDESTRIAN ACCESS ON NASH ST.
-REMOVE AND REPLACE EXISTING STORM SEWER ON CTH M TO MAINTAIN DRAINAGE
-CONSTRUCT CTH M AND NASH ST BRIDGES AND RETAINING WALLS
-CONSTRUCT NASH ST STORM SEWER DURING GIRDER PLACEMENT TO MINIMIZE NASH ST CLOSURES

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - CTH M AREA - STAGE 1	SHEET 42	E

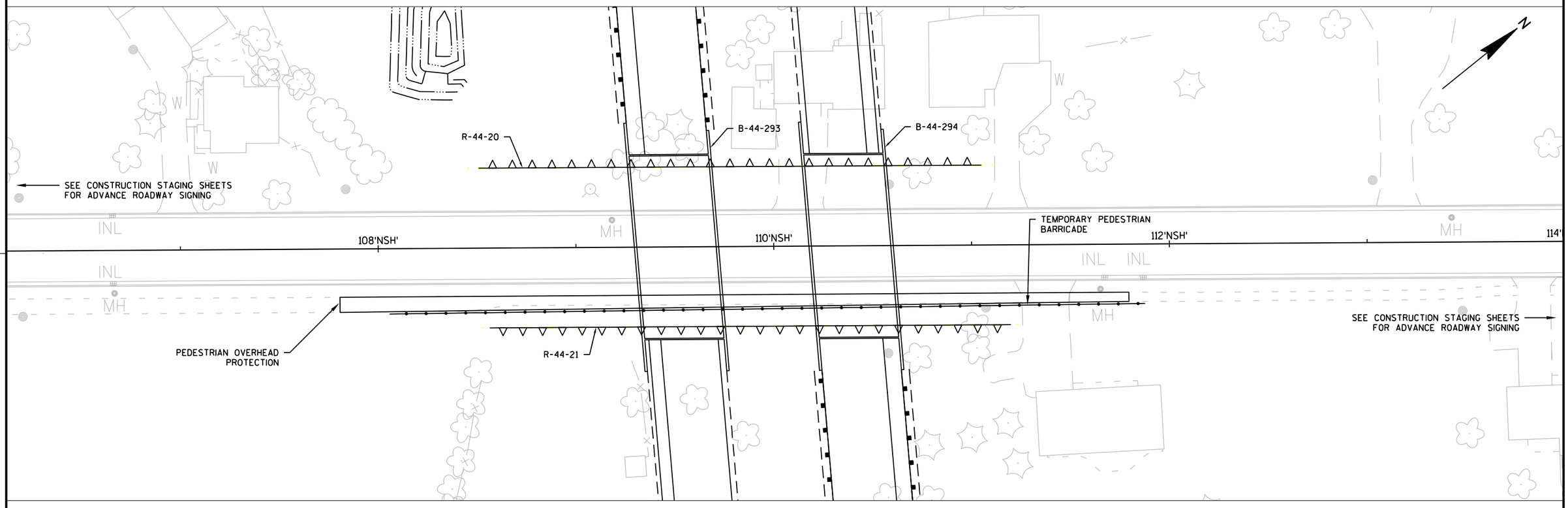


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - CTH M AREA - STAGE 2	SHEET 43	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_026006-S.DWG
11467571_PLAN - 026006-S
PLOT DATE : 2/8/2021 11:13 AM PLOT BY : SIMMONS, MASON A PLOT NAME : ---------- PLOT SCALE : 1 IN:800 FT
WISDOT/CADDS SHEET 42



PEDESTRIAN OVERHEAD PROTECTION



NOTES:

EXACT LOCATION OF PEDESTRIAN OVERHEAD PROTECTION SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AND AS APPROVED BY THE ENGINEER.

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	TEMPORARY PEDESTRIAN ACCESS - NASH ST	SHEET E

2

CHAIN LINK FENCE (1' BURY)
SMALL ANIMAL FENCE
WOVEN WIRE FENCE

N

SAMBS, KEVIN & JANE

SAMBS, KEVIN & JANE

SAMBS, KEV

R/W

P.L.

P.L.

WISCONSIN CENTRAL LTD

277'WB'+09
-172.00' LT

R/W

3'

280'WB'+08
-172.00' LT

284'WB'+95
-192.00' LT

277'WB'+42
-126.30' LT

2-FT GAP AT STRUCTURES (TYP.)
SEE CONSTRUCTION DETAIL

272'WB' 274'WB' 276'WB' 278'WB' 280'WB' 282'WB' 284'WB' 286'WB'

272'EB' 274'EB' 276'EB' 278'EB' 280'EB' 282'EB' 284'EB' 286'EB'

BEGIN PROJECT 1146-75-71
STA 275'EB'+00

283'EB'+43
128.55' RT

284'EB'+45
156.14' RT

20+00.00

WISCONSIN CENTRAL LTD

P.L.

285'EB'+15
192.40' RT

W/W

SAMBS

P.L.

STATE OF
WIS DEPT
OF TRANS

STATE OF WISCONSIN
DEPARTMENT OF
TRANSPORTATION

STATE OF WISC DEPT TRANSPORTN

2

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	FENCING PLAN	SHEET 45	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_027101_FN.DWG
LAYOUT NAME - 027102_FN

PLOT DATE : 8/24/2020 9:14 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:100_XREF

CHAIN LINK FENCE (1' BURY)
SMALL ANIMAL FENCE
WOVEN WIRE FENCE

SAMBS, KEVIN & JANE

P.L.

N

TLE

R/W

3'

294'WB'+94
-160.13' LT

296'WB'+24
-93.19' LT

21'

298'WB'+50
-76.48' LT

299'WB'+75
-82.85' LT

301'WB'+00
-105.99' LT

288'WB' 290'WB' 292'WB' 294'WB' 296'WB' 298'WB' 300'WB'

288'EB' 290'EB' 292'EB' 294'EB' 296'EB' 298'EB' 300'EB'

301'EB'+94
62.14' RT

301'EB'+01
97.00' RT

297'EB'+04
102.46' RT

297'EB'+47
102.44' RT

R/W

298'EB'+03
136.58' RT

297'EB'+81
136.83' RT

296'EB'+70
136.56' RT

288'EB'+50
172.01' RT

3'

SAMBS, KEVIN & JANE

PLACE WOVEN WIRE FENCE AND SMALL ANIMAL FENCE BACK TO BACK AT 3' O/S FROM R/W

PROPOSED 6" UNDERDRAIN RUNS PARALLEL TO FENCING (TYP.) SEE PLAN AND PROFILE SHEETS

PC: 24+43.59

Mid: 24+53.84

PT: 24+64.08

PI: 24+74.30

EP: 25+09.10

GIVENS

SAMBS

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	FENCING PLAN	SHEET E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_027101_FN.DWG
LAYOUT NAME - 027103_FN

PLOT DATE : 1/26/2021 1:03 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

2

CHAIN LINK FENCE (1' BURY)
SMALL ANIMAL FENCE
WOVEN WIRE FENCE

P.L.

P.L.

PARTIKA, PAUL RICHARD

N

N

PARTIKA, IRVING J & GENEVRA

R/W

302'EB'+90
-139.43' LT

303'EB'+00
-139.24' LT

308'EB'+95
-104.14' LT

309'EB'+05
-103.95' LT

3'

302'WB' 304'WB' 306'WB' 308'WB' 310'WB' 312'WB' 314'WB' 316'WB'

302'EB' 304'EB' 306'EB' 308'EB' 310'EB' 312'EB' 314'EB' 316'EB'

301'EB'+94
62.14' RT

302'EB'+04
62.32' RT

308'EB'+95
43.85' RT

309'EB'+05
44.03' RT

R/W

3'

PROPOSED 6" UNDERDRAIN
RUNS PARALLEL TO FENCING (TYP.)
SEE PLAN AND PROFILE SHEETS

PLACE WOVEN WIRE FENCE AND
SMALL ANIMAL FENCE BACK TO
BACK AT 3' O/S FROM R/W

CORN CRIB

SEPV

SEPV

PARTIKA, IRVING J & GENEVRA

CIVENS RD

CIVENS RD

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	FENCING PLAN	SHEET 47	E

2

2

CHAIN LINK FENCE (1' BURY)
SMALL ANIMAL FENCE
WOVEN WIRE FENCE

N

SYKES, JAMES I & MARIANN D

PARTIKA, IRVING J & GENEVRA

R/W

320'WB'+90
-107.00' LT

3'

R/W

318'WB' 320'WB' 322'WB' 324'WB' 326'WB' 328'WB' 330'WB'

318'EB' 320'EB' 322'EB' 324'EB' 326'EB' 328'EB' 330'EB'

FO

3'

R/W

PLACE WOVEN WIRE FENCE AND
SMALL ANIMAL FENCE BACK TO
BACK AT 3' O/S FROM R/W

PARTIKA, IRVING J & GENEVRA

SYKES, JAMES I & MARIANN D

GIVENS RD

SYKES, JAMES I & MARIANN D

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	FENCING PLAN	SHEET 48	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_027101_FN.DWG
LAYOUT NAME - 027105_FN

PLOT DATE : 8/24/2020 9:16 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:100_XREF

2

CHAIN LINK FENCE (1' BURY)
SMALL ANIMAL FENCE
WOVEN WIRE FENCE

P.L.

N

PARKER, DON E & MARGARET E

TLE

R/W

3'

338'WB'+38
-107.00' LT

339'WB'+90
-107.00' LT

2-FT GAP AT STRUCTURES (TYP.)
SEE CONSTRUCTION DETAIL

333'EB'+48
-131.47' LT

333'EB'+58
-131.29' LT

332'WB' 334'WB' 336'WB' 338'WB' 340'WB' 342'WB' 344'WB' 346'WB'

332'EB' 334'EB' 336'EB' 338'EB' 340'EB' 342'EB' 344'EB' 346'EB'

333'EB'+52
67.05' RT

333'EB'+62
67.23' RT

339'EB'+90
97.00' RT

341'EB'+42
97.00' RT

PLACE WOVEN WIRE FENCE AND
SMALL ANIMAL FENCE BACK TO
BACK AT 3' O/S FROM R/W

OH

BLACK OTTER CR

PARKER, DON E & MARGARET E

PARKER, DON E & MARGARET E

2

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	FENCING PLAN	SHEET 49	E

2

CHAIN LINK FENCE (1' BURY)
SMALL ANIMAL FENCE
WOVEN WIRE FENCE

SCHERNICK, MICHAEL S

GRAND VIEW GOLF CLUB INC

P.L.

R/W

3'

348'WB' 350'WB' 352'WB' 354'WB' 356'WB' 358'WB' 360'WB'

348'EB' 350'EB' 352'EB' 354'EB' 356'EB' 358'EB' 360'EB'

359'EB'+79
-134.32' LT

359'EB'+89
-134.14' LT

359'EB'+85
71.30' RT

359'EB'+95
71.48' RT

359'EB'+45
111.87' RT

358'EB'+50
97.00' RT

360'EB'+32
108.54' RT

361'EB'+84
107.84' RT

PIER

FOOTBRIDGE

N

PLACE WOVEN WIRE FENCE AND SMALL ANIMAL FENCE BACK TO BACK AT 3' O/S FROM R/W

STATE OF WI
DEPARTMEN
TRANSPORT

2

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	FENCING PLAN	SHEET 50	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_027101_FN.DWG
LAYOUT NAME - 027107_FN

PLOT DATE : 8/24/2020 9:16 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

2

CHAIN LINK FENCE (1' BURY)
SMALL ANIMAL FENCE
WOVEN WIRE FENCE

FOWLE, DONALD D/ANN L JT RV TR

P.L.

R/W

SEPV

SEPC

366'WB'+41
-122.02' LT

STATE OF WISCONSIN
DEPARTMENT OF
TRANSPORTATION

368'WB'+65
-130.09' LT

370'WB'+94
-145.95' LT

372'WB'+26
-132.05' LT

2-FT GAP AT STRUCTURES (TYP.)
SEE CONSTRUCTION DETAIL

24'M

22'M

20'M

GRANT,
DARLENE R
& BRUCE

362'WB'+38
-117.00' LT

362'WB'

364'WB'

366'WB'

368'WB'

370'WB'

372'WB'

374'WB'

376'WB'

362'EB'

364'EB'

366'EB'

368'EB'

370'EB'

372'EB'

374'EB'

376'EB'

3'

367'EB'+79
120.00' RT

369'EB'+82
138.67' RT

371'EB'+70
124.59' RT

373'EB'+76
118.71' RT

365'EB'+85
115.33' RT

361'EB'+84
107.84' RT

PLACE WOVEN WIRE FENCE AND
SMALL ANIMAL FENCE BACK TO
BACK AT 3' O/S FROM R/W

THE ESTATE OF
EMELINE A BREITRICK

373'WB'+33
-83.77' LT

374'WB'+29
-137.00' LT

374'WB'+99
-137.00' LT

376'WB'+
-87.00'

375'EB'+51
127.00' RT

374'EB'+97
163.08' RT

TILE

FOUND

SAN

FO

VILLAGE OF HORTONVILLE

ATHLETIC FIELD

FINK,
KEITH A

N

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	FENCING PLAN	SHEET 51	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_027101_FN.DWG
LAYOUT NAME - 027108_FN

PLOT DATE : 8/24/2020 9:17 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

CHAIN LINK FENCE (1' BURY)
SMALL ANIMAL FENCE
WOVEN WIRE FENCE

HEYES, EDWARD K & LINDA F

THE ESTATE OF EMELINE A BREITRICK

KLOEHN, JANICE R

KLITZKE, LARRY L & WF

MULROY, BARRY J

CAPTAIN, PAUL A

BREITRICK, MARK

379'WB'+65
-157.00' LT

376'WB'+24
-87.00' LT

378'WB'+00
-87.00' LT

388'WB'+81
-141.41' LT

388'WB'+14
-126.72' LT

391'WB'+34
-201.09' LT

391'WB'+31
-161.63' LT

389'WB'+72
-174.09' LT

SARGENT, NICHOLAS D

HOIER, RONALD & GERALDINE

378'WB' 380'WB' 382'WB' 384'WB' 386'WB' 388'WB' 390'WB'

378'EB' 380'EB' 382'EB' 384'EB' 386'EB' 388'EB' 390'EB'

114'NSH'
112'NSH'
110'NSH'
108'NSH'
106'NSH'

2-FT GAP AT STRUCTURES (TYP.)
SEE CONSTRUCTION DETAIL

377'EB'+61
127.00' RT

379'EB'+15
117.00' RT

384'EB'+50
117.00' RT

388'EB'+52
162.43' RT

389'EB'+41
148.84' RT

12'NCR'

THE ESTATE OF EMELINE A BREITRICK

FINK, KEITH A

BAKER, MARTIN M & JANICE M

POLACEK, ANTON & BRENDA SUE

RIEHL, THOMAS R

JUSTMANN, DAVID A & LINDA D

JUSTMANN, DAVID A & LINDA D

CLOSE, KENNETH L & DONNA J

HARRIS WAY

P.L. R/W TLE 3' CTH "AW" FOND DU LAC

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	FENCING PLAN	SHEET 52	E

CHAIN LINK FENCE (1' BURY)
SMALL ANIMAL FENCE
WOVEN WIRE FENCE

RUINS

391'WB'+31
-161.63' LT

R/W

3'

402'WB'+00
-121.82' LT

403'WB'+65
-148.27' LT

403'WB'+79
-127.00' LT

DODD, DARIN & MICHELLE

P.L.

392'WB' 394'WB' 396'WB' 398'WB' 400'WB' 402'WB' 404'WB' 406'WB'

392'EB' 394'EB' 396'EB' 398'EB' 400'EB' 402'EB' 404'EB' 406'EB'

392'EB'+78
211.44' RT

PLE

TLE

406'EB'+19
182.50' RT

SEPC

HORTONVILLE SCHOOL DISTRICT

HOEWISCH, WALMER/MAX REV TRUST

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	FENCING PLAN	SHEET 53	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_027101_FN.DWG
LAYOUT NAME - 027110_FN

PLOT DATE : 8/24/2020 9:18 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:100_XREF

2

2

CHAIN LINK FENCE (1' BURY)
SMALL ANIMAL FENCE
WOVEN WIRE FENCE

N

R/W

R/W

MURPHY, MICHAEL J & MARY L

416'WB'+84
267.00' LT

STATE OF WISCONSIN
DEPARTMENT OF
TRANSPORTATION

411'WB'+17
-127.00' LT

408'WB' 410'WB' 412'WB' 414'WB' 416'WB' 418'WB' 420'WB'

408'EB' 410'EB' 412'EB' 414'EB' 416'EB' 418'EB' 420'EB'

P.L.

420'EB'+69
162.00' RT

406'EB'+19
182.50' RT

P.L.

R/W

R/W

STATE OF WISCONSIN

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	FENCING PLAN	SHEET 54	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_027101_FN.DWG
LAYOUT NAME - 027111_FN

PLOT DATE : 8/24/2020 9:18 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

2

CHAIN LINK FENCE (1' BURY)
SMALL ANIMAL FENCE
WOVEN WIRE FENCE

MARY L

422'WB'+89
-267.00' LT

R/W

3'

426'WB'+00
-177.03' LT

P.L.

MURPHY, MARY L

VILLAGE OF HORTONVILLE

TLE

VILLAGE OF HORTONVILLE

433'WB'+88
-108.19' LT

434'WB'+12
-108.55' LT

422'WB' 424'WB' 426'WB' 428'WB' 430'WB' 432'WB' 434'WB' 436'WB'

422'EB' 424'EB' 426'EB' 428'EB' 430'EB' 432'EB' 434'EB' 436'EB'

434'EB'+00
162.00' RT

R/W

VILLAGE OF HORTONVILLE

MURPHY, MARY L

HOIER, DONALD & BONNIE

HOIER, GERALD & ROSE

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	FENCING PLAN	SHEET 55	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_027101_FN.DWG
LAYOUT NAME - 027112_FN

PLOT DATE : 8/24/2020 9:19 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

2

CHAIN LINK FENCE (1' BURY)
SMALL ANIMAL FENCE
WOVEN WIRE FENCE

WEYERS, ARNOLD J & MARY S

WEYERS, ARNOLD J & MARY S

439'WB'+74
-182.10' LT

440'WB'+84
-182.00' RT

445'WB'+26
-182.00' LT

447'WB'+38
-147.11' LT

447'WB'+58
-143.91' LT

449'WB'+70
-106.80' LT

SNOWMOBILE TRAIL

WEYERS, ARNOLD J & MARY S

R/W

STA 447+50
WOOD GATE DOUBLE LEAF 20-FT

438'WB' 440'WB' 442'WB' 444'WB' 446'WB' 448'WB' 450'WB'

438'EB' 440'EB' 442'EB' 444'EB' 446'EB' 448'EB' 450'EB'

447'EB'+41
97.27' RT

447'EB'+60
96.34' RT

449'EB'+00
97.00' RT

STA 447+50
WOOD GATE DOUBLE LEAF 20-FT

LEMKE, ALVIN H

LEMKE, ALVIN H JR

WEYERS, ARNOLD J & MARY S

WEYERS, ARNOLD

BANKER, MARK L

ERALD & ROSE

P.L.

N

SEPV

SEPTIC

SEPC

TLE

FO

RWGP

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	FENCING PLAN	SHEET 56	E

2

CHAIN LINK FENCE (1' BURY)
SMALL ANIMAL FENCE
WOVEN WIRE FENCE

N

WATTERS.

YOUNG, RUTH M

JOSSART, JOAN M SURVIVORS TRST

R/W

3'

465'WB'+00
-122.00' LT

452'WB' 454'WB' 456'WB' 458'WB' 460'WB' 462'WB' 464'WB' 466'WB'

452'EB' 454'EB' 456'EB' 458'EB' 460'EB' 462'EB' 464'EB' 466'EB'

END PROJECT 1146-75-71
STA 465'EB'+00

SNOWMOBILE TRAIL

P.L.

452'EB'+00
117.00' RT

455'EB'+02
127.00' RT

459'EB'+68
127.00' RT

R/W

3'

JOSSART, JOAN M SURVIVORS TRST

RWGP

STH 15

SIGN

HOIER, REGINA

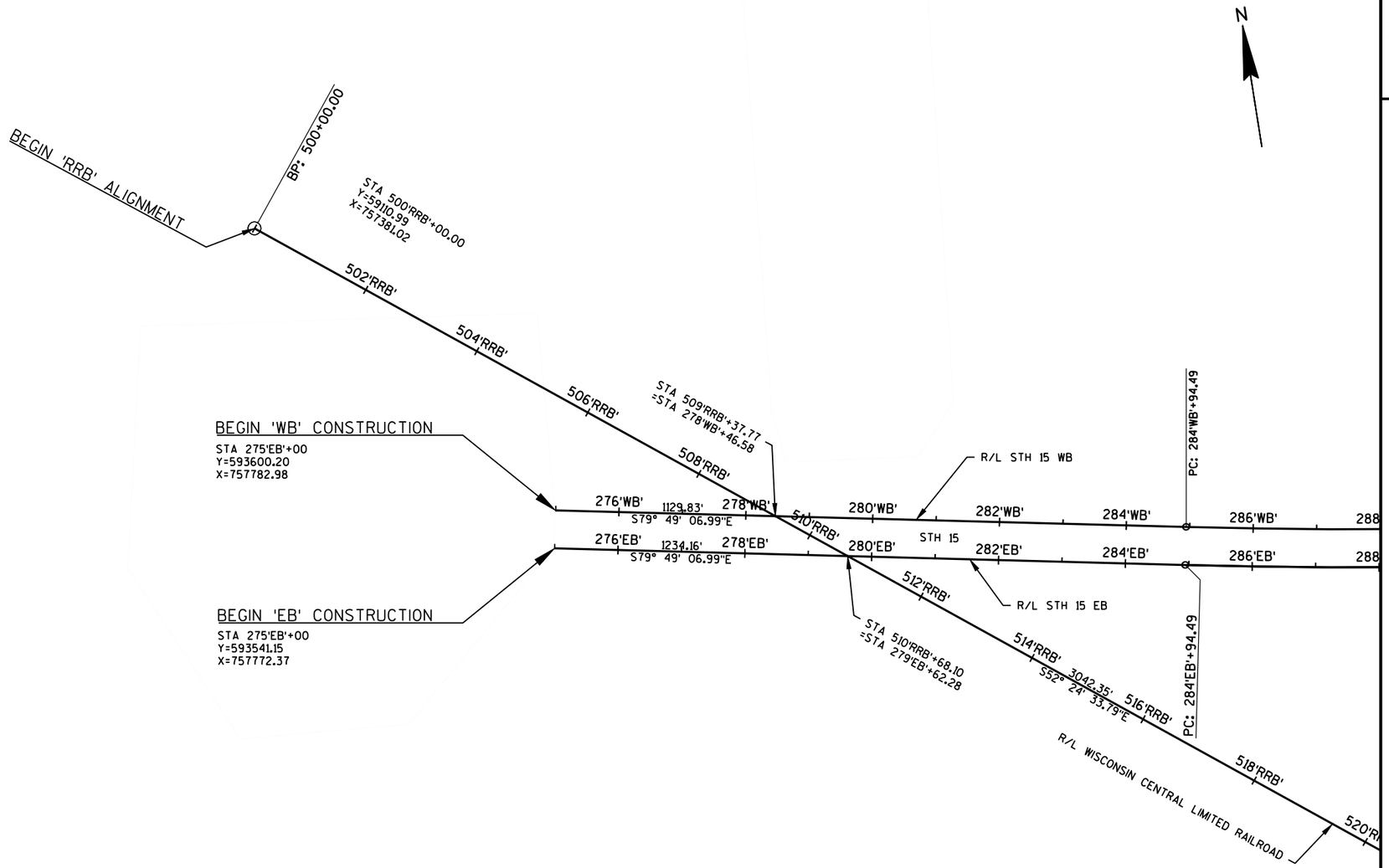
STILES, GARY & JANE

PULS, GAIL M
WALSVIK, PENNY A
BLINK, JENNIFER L

YOUNG, RUTH M

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	FENCING PLAN	SHEET 57	E

2



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	ALIGNMENT DIAGRAM - STH 15	SHEET 58	E

2

CURVE WB-8
PI STA = 292'WB'+94.20
Y = 593283.050
X = 759548.924
DELTA = 8°52'45"
D = 0°33'23"
T = 799.71'
L = 1596.21'
R = 10300.00'
PC STA = 284'WB'+94.49
Y = 593424.410
X = 758761.812
PT STA = 300'WB'+90.70
Y = 593264.876
X = 760348.422
BK = S79°49'07.0"E
AH = S88°41'52.2"E

SUPERELEVATION TABLE (WB-8)			
STATION	LT SLOPE	RT SLOPE	REMARKS
283'WB'+61.16	-2.0%	-2.0%	NORMAL CROWN
284'WB'+41.16	-2.0%	0.0%	ZERO SUPER
285'WB'+21.16	-2.0%	2.0%	FULL SUPER
300'WB'+64.04	-2.0%	2.0%	FULL SUPER
301'WB'+53.34	-2.0%	0.0%	ZERO SUPER
302'WB'+33.34	-2.0%	-2.0%	NORMAL CROWN

N

R/L STH 15 WB

288'WB' 290'WB' 292'WB' CURVE WB-8 294'WB' 296'WB' 298'WB' 300'WB' 302'WB' 304'WB' 306'WB' 308'WB' 310'WB' 312'WB' 314'WB' 316'WB' 318'WB'

PT: 300'WB'+90.70

STA AHEAD: 301'WB'+00.00
STA BACK: 300'WB'+90.70
EQUATION

6138.03'
S88° 41' 52.18"E

STH 15

288'EB' 290'EB' 292'EB' 294'EB' 296'EB' 298'EB' 300'EB' 302'EB' 304'EB' 306'EB' 308'EB' 310'EB' 312'EB' 314'EB' 316'EB' 318'EB'

6138.03'
S88° 41' 52.18"E

R/L STH 15 EB

CURVE EB-8

CURVE EB-8
PI STA = 292'EB'+98.86
Y = 593223.171
X = 759542.903
DELTA = 8°52'45"
D = 0°33'11"
T = 804.36'
L = 1605.51'
R = 10360.00'
PC STA = 284'EB'+94.49
Y = 593365.355
X = 758751.206
PT STA = 301'EB'+00.00
Y = 593204.892
X = 760347.059
BK = S79°49'07.0"E
AH = S88°41'52.2"E

SUPERELEVATION TABLE (EB-8)			
STATION	LT SLOPE	RT SLOPE	REMARKS
283'EB'+61.16	-2.0%	-2.0%	NORMAL CROWN
284'EB'+41.16	-2.0%	0.0%	ZERO SUPER
285'EB'+21.16	-2.0%	2.0%	FULL SUPER
300'EB'+73.34	-2.0%	2.0%	FULL SUPER
301'EB'+53.34	-2.0%	0.0%	ZERO SUPER
302'EB'+33.34	-2.0%	-2.0%	NORMAL CROWN

PT: 301'EB'+00.00

20'RRB' 522'RRB'

2

N

R/L STH 15 WB

318'WB' 320'WB' 322'WB' 324'WB' 326'WB' 328'WB' 330'WB' 332'WB' 334'WB' 336'WB' 338'WB' 340'WB' 342'WB' 344'WB' 346'WB' 348'WB'

6138.03'
S88° 41' 52.18"E

318'EB' 320'EB' 322'EB' 324'EB' 326'EB' 328'EB' 330'EB' 332'EB' 334'EB' 336'EB' 338'EB' 340'EB' 342'EB' 344'EB' 346'EB' 348'EB'

STH 15

6138.03'
S88° 41' 52.18"E

R/L STH 15 EB

END 'BOC' ALIGNMENT
STA 4'BOC'+59.14
Y=593279.3125
X=764184.6184

PC: 3'BOC'+90.78

4'BOC'

PT: 2'BOC'+24.89

2'BOC'

PC: 1'BOC'+86.58

BEGIN 'BOC' ALIGNMENT
STA 1'BOC'+50
Y=593013.3761
X=764330.3133

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	ALIGNMENT DIAGRAM - STH 15	SHEET 59	E

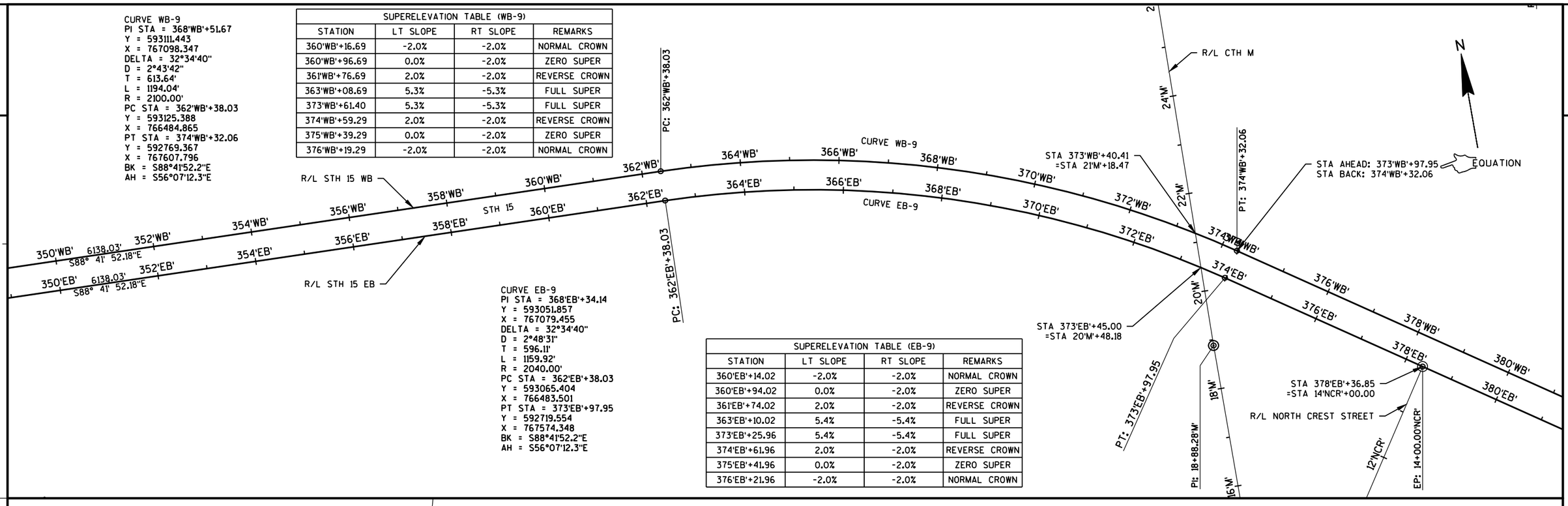
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_027201_AD.DWG
LAYOUT NAME - 027202-AD
PLOT DATE : 1/22/2020 8:23 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44

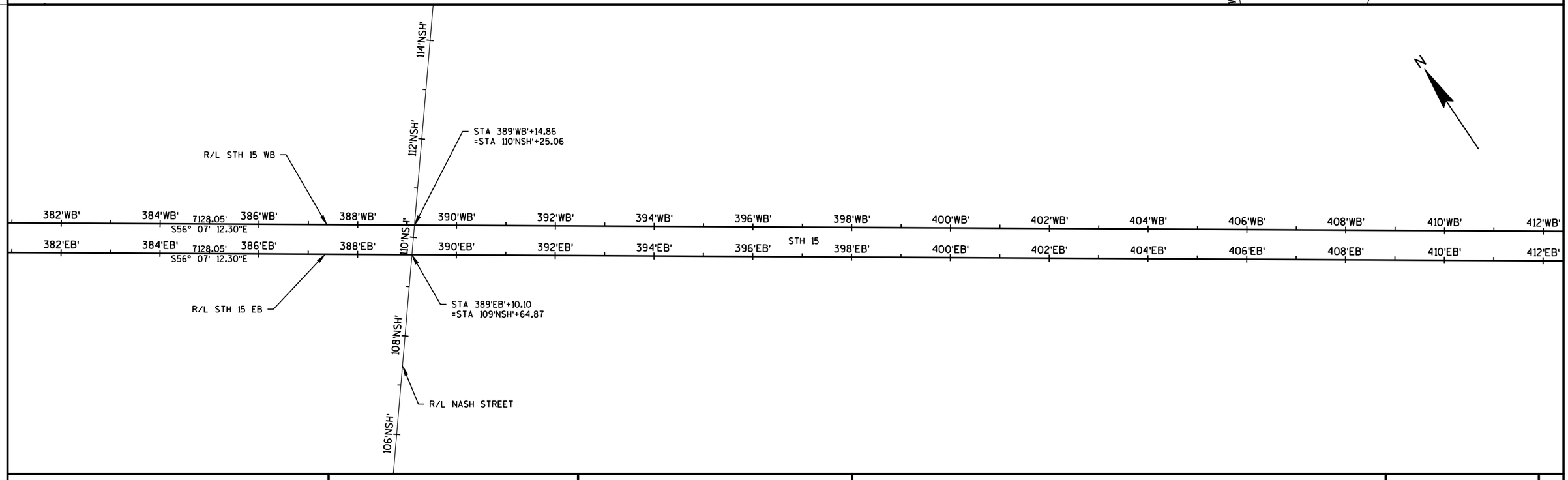
CURVE WB-9
PI STA = 368'WB'+51.67
Y = 593111.443
X = 767098.347
DELTA = 32°34'40"
D = 2°43'42"
T = 613.64'
L = 1194.04'
R = 2100.00'
PC STA = 362'WB'+38.03
Y = 593125.388
X = 766484.865
PT STA = 374'WB'+32.06
Y = 592769.367
X = 767607.796
BK = S88°41'52.2"E
AH = S56°07'12.3"E

SUPERELEVATION TABLE (WB-9)			
STATION	LT SLOPE	RT SLOPE	REMARKS
360'WB'+16.69	-2.0%	-2.0%	NORMAL CROWN
360'WB'+96.69	0.0%	-2.0%	ZERO SUPER
361'WB'+76.69	2.0%	-2.0%	REVERSE CROWN
363'WB'+08.69	5.3%	-5.3%	FULL SUPER
373'WB'+61.40	5.3%	-5.3%	FULL SUPER
374'WB'+59.29	2.0%	-2.0%	REVERSE CROWN
375'WB'+39.29	0.0%	-2.0%	ZERO SUPER
376'WB'+19.29	-2.0%	-2.0%	NORMAL CROWN

CURVE EB-9
PI STA = 368'EB'+34.14
Y = 593051.857
X = 767079.455
DELTA = 32°34'40"
D = 2°48'31"
T = 596.11'
L = 1159.92'
R = 2040.00'
PC STA = 362'EB'+38.03
Y = 593065.404
X = 766483.501
PT STA = 373'EB'+97.95
Y = 592719.554
X = 767574.348
BK = S88°41'52.2"E
AH = S56°07'12.3"E

SUPERELEVATION TABLE (EB-9)			
STATION	LT SLOPE	RT SLOPE	REMARKS
360'EB'+14.02	-2.0%	-2.0%	NORMAL CROWN
360'EB'+94.02	0.0%	-2.0%	ZERO SUPER
361'EB'+74.02	2.0%	-2.0%	REVERSE CROWN
363'EB'+10.02	5.4%	-5.4%	FULL SUPER
373'EB'+25.96	5.4%	-5.4%	FULL SUPER
374'EB'+61.96	2.0%	-2.0%	REVERSE CROWN
375'EB'+41.96	0.0%	-2.0%	ZERO SUPER
376'EB'+21.96	-2.0%	-2.0%	NORMAL CROWN

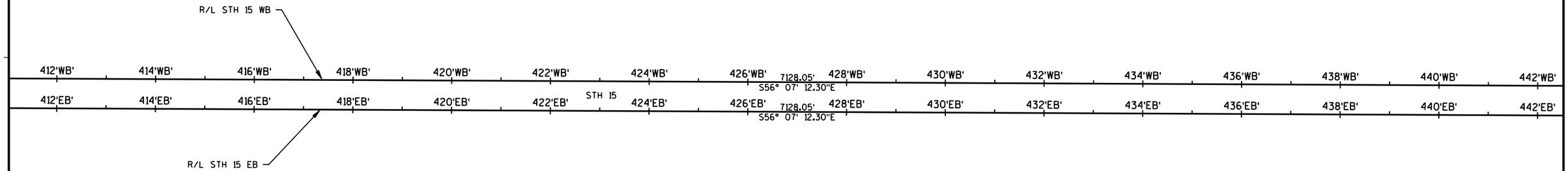




PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	ALIGNMENT DIAGRAM - STH 15	SHEET 60	E

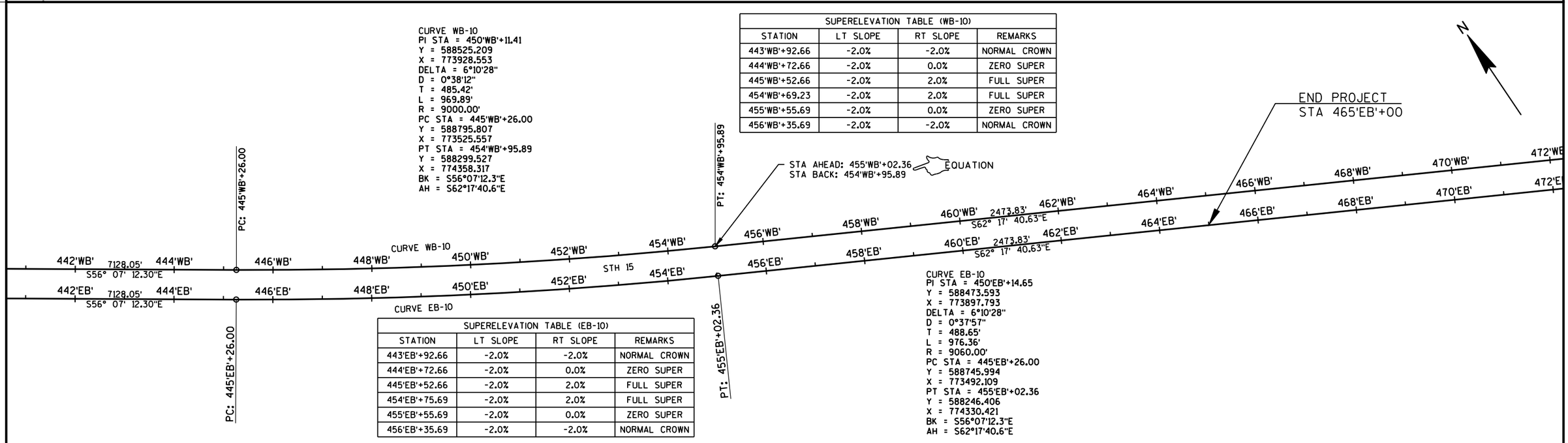
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_027201_AD.DWG
LAYOUT NAME - 027203-AD
PLOT DATE : 1/22/2020 8:23 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:200 FT

2



CURVE WB-10
PI STA = 450'WB'+11.41
Y = 588525.209
X = 773928.553
DELTA = 6°10'28"
D = 0°38'12"
T = 485.42'
L = 969.89'
R = 9000.00'
PC STA = 445'WB'+26.00
Y = 588795.807
X = 773525.557
PT STA = 454'WB'+95.89
Y = 588299.527
X = 774358.317
BK = S56°07'12.3"E
AH = S62°17'40.6"E

SUPERELEVATION TABLE (WB-10)			
STATION	LT SLOPE	RT SLOPE	REMARKS
443'WB'+92.66	-2.0%	-2.0%	NORMAL CROWN
444'WB'+72.66	-2.0%	0.0%	ZERO SUPER
445'WB'+52.66	-2.0%	2.0%	FULL SUPER
454'WB'+69.23	-2.0%	2.0%	FULL SUPER
455'WB'+55.69	-2.0%	0.0%	ZERO SUPER
456'WB'+35.69	-2.0%	-2.0%	NORMAL CROWN



SUPERELEVATION TABLE (EB-10)			
STATION	LT SLOPE	RT SLOPE	REMARKS
443'EB'+92.66	-2.0%	-2.0%	NORMAL CROWN
444'EB'+72.66	-2.0%	0.0%	ZERO SUPER
445'EB'+52.66	-2.0%	2.0%	FULL SUPER
454'EB'+75.69	-2.0%	2.0%	FULL SUPER
455'EB'+55.69	-2.0%	0.0%	ZERO SUPER
456'EB'+35.69	-2.0%	-2.0%	NORMAL CROWN

CURVE EB-10
PI STA = 450'EB'+14.65
Y = 588473.593
X = 773897.793
DELTA = 6°10'28"
D = 0°37'57"
T = 488.65'
L = 976.36'
R = 9060.00'
PC STA = 445'EB'+26.00
Y = 588745.994
X = 773492.109
PT STA = 455'EB'+02.36
Y = 588246.406
X = 774330.421
BK = S56°07'12.3"E
AH = S62°17'40.6"E

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	ALIGNMENT DIAGRAM - STH 15	SHEET 61	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_027201_AD.DWG
LAYOUT NAME - 027204-AD
PLOT DATE : 1/22/2020 8:23 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44

2

12'M' 14'M' 16'M' 18'M' 20'M' 22'M' 24'M' 26'M' 28'M' 30'M'

888.28' N0° 08' 13.18"W

CTH M N OLK STREET

1610.80' N38° 24' 52.09"E

R/L CTH M

BEGIN 'M' ALIGNMENT
STA 10'M'+00.00
Y=591700.33
X=767530.76

STA 20'M'+48.18
=STA 373'EB'+45.00

STA 21'M'+18.47
=STA 373'WB'+40.41

STA 27'M'+00.03
=STA 10'MM'+00.00

END 'M' ALIGNMENT
STA 32'M'+00.00
Y=593900.27
X=767539.91

R/L NORTH CREST STREET

BEGIN 'NCR' ALIGNMENT
STA 10'NCR'+00.00
Y=592139.29
X=767721.07

12'NCR'

NORTH CREST STREET

PI: 18+88.28'M'

374'EB' 374'WB' 376'EB' 376'WB' 378'EB' 378'WB' 380'EB' 380'WB' 382'EB' 382'WB' 384'EB' 384'WB' 386'EB' 386'WB' 388'EB' 388'WB' 390'EB' 390'WB' 392'EB' 392'WB' 394'EB' 394'WB'

STH 15

STA 14'NCR'+00.00
=STA 378'EB'+36.85

END 'NCR' ALIGNMENT
STA 14'NCR'+00.00
Y=592474.89
X=767938.73

BEGIN 'MM' ALIGNMENT
STA 10'MM'+00.00
Y=593400.32
X=767535.61

12'MM' 14'MM' 16'MM' 18'MM' 20'MM' 22'MM' 24'MM' 26'MM' 28'MM' 30'MM' 32'MM'

S89° 39' 02.30"E 794.93'

PC: 17+94.93'MM

CURVE MM-1
PI STA = 22'MM'+01.48
Y = 593392.994
X = 768737.069
DELTA = 51°55'16"
D = 6°51'42"
T = 406.55'
L = 756.67'
R = 835.00'
PC STA = 17'MM'+94.93
Y = 593395.473
X = 768330.531
PT STA = 25'MM'+51.61
Y = 593711.478
X = 768989.751
BK = S89°39'02.3"E
AH = N38°25'41.3"E

R/L CTH MM

CURVE MM-1

CTH MM

PI: 25+51.61'MM'

N38° 25' 41.30"E 648.39'

END 'MM' ALIGNMENT
STA 32'M'+00.00
Y=594219.50
X=769392.77

N37° 50' 08.56"E 31.64'

PI: 100+31.64'NSH'

R/L NASH STREET

102'NSH' 104'NSH' 106'NSH' 108'NSH' 110'NSH' 112'NSH' 114'NSH' 116'NSH'

BEGIN 'NSH' ALIGNMENT
STA 100'NSH'+00.00
Y=591120.39
X=768230.48

N38° 24' 52.09"E 1610.80'

STA 109'NSH'+64.87
=STA 389'EB'+10.10

STA 110'NSH'+25.06
=STA 389'WB'+14.86

NASH STREET

END 'NSH' ALIGNMENT
STA 116'NSH'+42.44
Y=592407.50
X=769250.75

R/L STH 15 EB

R/L STH 15 WB

SUPERELEVATION TABLE (MM-1)			
STATION	LT SLOPE	RT SLOPE	REMARKS
16'MM'+81.39	-2.0%	-2.0%	NORMAL CROWN
17'MM'+22.93	-2.0%	0.0%	ZERO SUPER
17'MM'+64.47	-2.0%	2.0%	REVERSE CROWN
18'MM'+30.93	-5.2%	5.2%	FULL SUPER
25'MM'+15.61	-5.2%	5.2%	FULL SUPER
25'MM'+82.07	-2.0%	2.0%	REVERSE CROWN
26'MM'+23.61	-2.0%	0.0%	ZERO SUPER
26'MM'+65.15	-2.0%	-2.0%	NORMAL CROWN

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	ALIGNMENT DIAGRAM - LOCAL ROADS	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_027205_AD.DWG
LAYOUT NAME - 027205-AD
PLOT DATE : 1/22/2020 8:23 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

1146-75-71

Line	Item	Item Description	Unit	Total	Qty
0002	108.4300	RBC Progress Schedule	EACH	1.000	1.000
0004	201.0105	Clearing	STA	163.000	163.000
0006	201.0205	Grubbing	STA	163.000	163.000
0008	203.0100	Removing Small Pipe Culverts	EACH	2.000	2.000
0010	203.0200	Removing Old Structure (station) 01. STA 339+40	LS	1.000	1.000
0012	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 339+40	LS	1.000	1.000
0014	204.0110	Removing Asphaltic Surface	SY	579.000	579.000
0016	204.0120	Removing Asphaltic Surface Milling	SY	3,565.000	3,565.000
0018	204.0150	Removing Curb & Gutter	LF	103.000	103.000
0020	204.0155	Removing Concrete Sidewalk	SY	36.000	36.000
0022	204.0170	Removing Fence	LF	6,855.000	6,855.000
0024	204.0180	Removing Delineators and Markers	EACH	2.000	2.000
0026	204.0210	Removing Manholes	EACH	1.000	1.000
0028	204.0220	Removing Inlets	EACH	1.000	1.000
0030	204.0230	Removing Building (station) 01. STA 447'EB'+00	LS	1.000	1.000
0032	204.0245	Removing Storm Sewer (size) 01. 30-inch	LF	115.000	115.000
0034	204.9090.S	Removing (item description) 01. Underdrain	LF	525.000	525.000
0036	205.0100	Excavation Common	CY	810,462.000	810,462.000
0038	205.0200	Excavation Rock	CY	25,553.000	25,553.000
0040	205.0400	Excavation Marsh	CY	127,635.000	127,635.000
0042	206.1000	Excavation for Structures Bridges (structure) 01. B-44-289	LS	1.000	1.000
0044	206.1000	Excavation for Structures Bridges (structure) 02. B-44-290	LS	1.000	1.000
0046	206.1000	Excavation for Structures Bridges (structure) 03. B-44-291	LS	1.000	1.000
0048	206.1000	Excavation for Structures Bridges (structure) 04. B-44-292	LS	1.000	1.000
0050	206.1000	Excavation for Structures Bridges (structure) 05. B-44-293	LS	1.000	1.000
0052	206.1000	Excavation for Structures Bridges (structure) 06. B-44-294	LS	1.000	1.000
0054	206.1000	Excavation for Structures Bridges (structure) 07. B-44-295	LS	1.000	1.000
0056	206.1000	Excavation for Structures Bridges (structure) 08. B-44-296	LS	1.000	1.000
0058	206.5000	Cofferdams (structure) 02. B-44-290	LS	1.000	1.000
0060	206.5000	Cofferdams (structure) 03. B-44-289	LS	1.000	1.000
0062	208.1100	Select Borrow	CY	79,757.000	79,757.000
0064	210.1500	Backfill Structure Type A	TON	3,283.000	3,283.000

1146-75-71

Line	Item	Item Description	Unit	Total	Qty
0066	211.0100	Prepare Foundation for Asphaltic Paving (project) 31. 1146-75-71	LS	1.000	1.000
0068	213.0100	Finishing Roadway (project) 01. 1146-75-71	EACH	1.000	1.000
0070	214.0100	Obliterating Old Road	STA	9.300	9.300
0072	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,209.000	1,209.000
0074	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	77,600.000	77,600.000
0076	305.0500	Shaping Shoulders	STA	11.200	11.200
0078	311.0110	Breaker Run	TON	104,262.000	104,262.000
0080	312.0110	Select Crushed Material	TON	89,761.000	89,761.000
0082	415.0410	Concrete Pavement Approach Slab	SY	336.000	336.000
0084	416.1010	Concrete Surface Drains	CY	5.400	5.400
0086	455.0605	Tack Coat	GAL	656.000	656.000
0088	460.2000	Incentive Density HMA Pavement	DOL	1,090.000	1,090.000
0090	460.5223	HMA Pavement 3 LT 58-28 S	TON	934.000	934.000
0092	460.5224	HMA Pavement 4 LT 58-28 S	TON	1,154.000	1,154.000
0094	465.0110	Asphaltic Surface Patching	TON	15.000	15.000
0096	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	13.000	13.000
0098	502.0100	Concrete Masonry Bridges	CY	6,061.000	6,061.000
0100	502.3101	Expansion Device	LF	348.000	348.000
0102	502.3200	Protective Surface Treatment	SY	6,743.000	6,743.000
0104	502.3210	Pigmented Surface Sealer	SY	1,488.000	1,488.000
0106	503.0137	Prestressed Girder Type I 36W-Inch	LF	2,547.000	2,547.000
0108	503.0146	Prestressed Girder Type I 45W-Inch	LF	2,694.000	2,694.000
0110	505.0400	Bar Steel Reinforcement HS Structures	LB	202,740.000	202,740.000
0112	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	688,475.000	688,475.000
0114	505.0800.S	Bar Steel Reinforcement HS Stainless Structures	LB	11,385.000	11,385.000
0116	506.2605	Bearing Pads Elastomeric Non-Laminated	EACH	96.000	96.000
0118	506.2610	Bearing Pads Elastomeric Laminated	EACH	20.000	20.000
0120	506.4000	Steel Diaphragms (structure) 01. B-44-289	EACH	24.000	24.000
0122	506.4000	Steel Diaphragms (structure) 02. B-44-290	EACH	24.000	24.000
0124	506.4000	Steel Diaphragms (structure) 03. B-44-291	EACH	12.000	12.000
0126	506.4000	Steel Diaphragms (structure) 04. B-44-292	EACH	12.000	12.000
0128	506.4000	Steel Diaphragms (structure) 05. B-44-293	EACH	12.000	12.000
0130	506.4000	Steel Diaphragms (structure) 06. B-44-294	EACH	12.000	12.000
0132	511.1200	Temporary Shoring (structure) 03. B-44-295/B-44-296	SF	5,884.000	5,884.000
0134	516.0500	Rubberized Membrane Waterproofing	SY	284.000	284.000
0136	520.8000	Concrete Collars for Pipe	EACH	3.000	3.000
0138	522.0112	Culvert Pipe Reinforced Concrete Class III 12-Inch	LF	46.000	46.000
0140	522.0118	Culvert Pipe Reinforced Concrete Class III 18-Inch	LF	1,414.000	1,414.000
0142	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	322.000	322.000

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Line	Item	Item Description	Unit	Total	Qty
0144	522.0130	Culvert Pipe Reinforced Concrete Class III 30-Inch	LF	654.000	654.000
0146	522.0136	Culvert Pipe Reinforced Concrete Class III 36-Inch	LF	210.000	210.000
0148	522.0142	Culvert Pipe Reinforced Concrete Class III 42-Inch	LF	252.000	252.000
0150	522.0154	Culvert Pipe Reinforced Concrete Class III 54-Inch	LF	214.000	214.000
0152	522.0418	Culvert Pipe Reinforced Concrete Class IV 18-Inch	LF	816.000	816.000
0154	522.0430	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	324.000	324.000
0156	522.0460	Culvert Pipe Reinforced Concrete Class IV 60-Inch	LF	604.000	604.000
0158	522.0536	Culvert Pipe Reinforced Concrete Class V 36-Inch	LF	738.000	738.000
0160	522.0542	Culvert Pipe Reinforced Concrete Class V 42-Inch	LF	392.000	392.000
0162	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	2.000	2.000
0164	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	27.000	27.000
0166	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	13.000	13.000
0168	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	10.000	10.000
0170	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	8.000	8.000
0172	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	4.000	4.000
0174	522.1054	Apron Endwalls for Culvert Pipe Reinforced Concrete 54-Inch	EACH	2.000	2.000
0176	522.1060	Apron Endwalls for Culvert Pipe Reinforced Concrete 60-Inch	EACH	4.000	4.000
0178	522.2319	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 19x30-Inch	LF	120.000	120.000
0180	522.2324	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 24x38-Inch	LF	214.000	214.000
0182	522.2348	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 48x76-Inch	LF	260.000	260.000
0184	522.2414	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 14x23-Inch	LF	82.000	82.000
0186	522.2424	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	LF	126.000	126.000
0188	522.2429	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	LF	148.000	148.000
0190	522.2614	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 14x23-Inch	EACH	1.000	1.000
0192	522.2619	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	EACH	4.000	4.000
0194	522.2624	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	EACH	8.000	8.000

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Line	Item	Item Description	Unit	Total	Qty
0196	522.2629	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	3.000	3.000
0198	522.2648	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 48x76-Inch	EACH	2.000	2.000
0200	550.0020	Pre-Boring Rock or Consolidated Materials	LF	1,200.000	1,200.000
0202	550.0500	Pile Points	EACH	80.000	80.000
0204	550.1120	Piling Steel HP 12-Inch X 53 Lb	LF	7,750.000	7,750.000
0206	550.2126	Piling CIP Concrete 12 3/4 X 0.375-Inch	LF	10,440.000	10,440.000
0208	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	464.000	464.000
0210	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	157.000	157.000
0212	602.0405	Concrete Sidewalk 4-Inch	SF	325.000	325.000
0214	604.0400	Slope Paving Concrete	SY	192.000	192.000
0216	604.0500	Slope Paving Crushed Aggregate	SY	1,160.000	1,160.000
0218	606.0200	Riprap Medium	CY	762.000	762.000
0220	606.0300	Riprap Heavy	CY	1,134.000	1,134.000
0222	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	310.000	310.000
0224	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	12.000	12.000
0226	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	4.000	4.000
0228	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	150.000	150.000
0230	608.2429	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	LF	40.000	40.000
0232	611.0530	Manhole Covers Type J	EACH	4.000	4.000
0234	611.0612	Inlet Covers Type C	EACH	1.000	1.000
0236	611.0624	Inlet Covers Type H	EACH	1.000	1.000
0238	611.0642	Inlet Covers Type MS	EACH	42.000	42.000
0240	611.2004	Manholes 4-FT Diameter	EACH	1.000	1.000
0242	611.2005	Manholes 5-FT Diameter	EACH	2.000	2.000
0244	611.2006	Manholes 6-FT Diameter	EACH	1.000	1.000
0246	611.2044	Manholes 4x4-FT	EACH	1.000	1.000
0248	611.3230	Inlets 2x3-FT	EACH	1.000	1.000
0250	611.3901	Inlets Median 1 Grate	EACH	20.000	20.000
0252	611.3902	Inlets Median 2 Grate	EACH	7.000	7.000
0254	611.3904	Inlets Median 4 Grate	EACH	2.000	2.000
0256	611.9800.S	Pipe Grates	EACH	12.000	12.000
0258	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	2,780.000	2,780.000
0260	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	20.000	20.000
0262	616.0100	Fence Woven Wire (height) 04. 4-FT	LF	31,400.000	31,400.000

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Line	Item	Item Description	Unit	Total	Qty
0264	616.0120.S	Fencing Small Animal	LF	9,837.000	9,837.000
0266	616.0700.S	Fence Safety	LF	400.000	400.000
0268	618.0100	Maintenance And Repair of Haul Roads (project) 06. 1146-75-71	EACH	1.000	1.000
0270	619.1000	Mobilization	EACH	1.000	1.000
0272	624.0100	Water	MGAL	1,290.000	1,290.000
0274	625.0500	Salvaged Topsoil	SY	342,567.000	342,567.000
0276	627.0200	Mulching	SY	211,960.000	211,960.000
0278	628.1104	Erosion Bales	EACH	10.000	10.000
0280	628.1504	Silt Fence	LF	18,521.000	18,521.000
0282	628.1520	Silt Fence Maintenance	LF	18,521.000	18,521.000
0284	628.1905	Mobilizations Erosion Control	EACH	20.000	20.000
0286	628.1910	Mobilizations Emergency Erosion Control	EACH	15.000	15.000
0288	628.2004	Erosion Mat Class I Type B	SY	215,405.000	215,405.000
0290	628.2027	Erosion Mat Class II Type C	SY	2,687.000	2,687.000
0292	628.6005	Turbidity Barriers	SY	464.000	464.000
0294	628.7005	Inlet Protection Type A	EACH	27.000	27.000
0296	628.7015	Inlet Protection Type C	EACH	1.000	1.000
0298	628.7504	Temporary Ditch Checks	LF	1,260.000	1,260.000
0300	628.7515.S	Stone or Rock Ditch Checks	CY	100.000	100.000
0302	628.7555	Culvert Pipe Checks	EACH	275.000	275.000
0304	628.7560	Tracking Pads	EACH	3.000	3.000
0306	628.7570	Rock Bags	EACH	100.000	100.000
0308	629.0210	Fertilizer Type B	CWT	242.000	242.000
0310	630.0110	Seeding Mixture No. 10	LB	3,720.000	3,720.000
0312	630.0120	Seeding Mixture No. 20	LB	10,972.000	10,972.000
0314	630.0140	Seeding Mixture No. 40	LB	16.000	16.000
0316	630.0500	Seed Water	MGAL	9,618.000	9,618.000
0318	632.0101	Trees (species) (size) (root) 28. Paper Birch River 'Fox Valley' (Shrub Form Tree), B&B, 4-Ft Ht	EACH	9.000	9.000
0320	632.0101	Trees (species) (size) (root) 29. Arborvitae, American, American 'Techny',B&B, 5-FT Ht.	EACH	28.000	28.000
0322	632.0201	Shrubs (species) (size) (root) 30. Redosier Dogwood, golden Glory Corneliancherry, B&B 4-FT HT	EACH	50.000	50.000
0324	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	30.000	30.000
0326	633.5200	Markers Culvert End	EACH	70.000	70.000
0328	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	8.000	8.000
0330	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	3.000	3.000
0332	637.2210	Signs Type II Reflective H	SF	51.180	51.180
0334	637.2220	Signs Type II Reflective SH	SF	6.750	6.750
0336	638.2602	Removing Signs Type II	EACH	7.000	7.000

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Line	Item	Item Description	Unit	Total	Qty
0338	638.3000	Removing Small Sign Supports	EACH	7.000	7.000
0340	640.1305.S	Clay Cover	CY	1,189.000	1,189.000
0342	642.5401	Field Office Type D	EACH	1.000	1.000
0344	643.0300	Traffic Control Drums	DAY	2,250.000	2,250.000
0346	643.0410	Traffic Control Barricades Type II	DAY	35.000	35.000
0348	643.0420	Traffic Control Barricades Type III	DAY	3,753.000	3,753.000
0350	643.0705	Traffic Control Warning Lights Type A	DAY	1,850.000	1,850.000
0352	643.0900	Traffic Control Signs	DAY	5,730.000	5,730.000
0354	643.1050	Traffic Control Signs PCMS	DAY	42.000	42.000
0356	643.5000	Traffic Control	EACH	1.000	1.000
0358	644.1810	Temporary Pedestrian Barricade	LF	400.000	400.000
0360	645.0111	Geotextile Type DF Schedule A	SY	370.000	370.000
0362	645.0120	Geotextile Type HR	SY	4,180.000	4,180.000
0364	645.0140	Geotextile Type SAS	SY	300.000	300.000
0366	646.1020	Marking Line Epoxy 4-Inch	LF	6,676.000	6,676.000
0368	646.3020	Marking Line Epoxy 8-Inch	LF	200.000	200.000
0370	649.0105	Temporary Marking Line Paint 4-Inch	LF	120.000	120.000
0372	650.4000	Construction Staking Storm Sewer	EACH	27.000	27.000
0374	650.4500	Construction Staking Subgrade	LF	37,454.000	37,454.000
0376	650.5000	Construction Staking Base	LF	40,145.000	40,145.000
0378	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	621.000	621.000
0380	650.6000	Construction Staking Pipe Culverts	EACH	55.000	55.000
0382	650.6500	Construction Staking Structure Layout (structure) 08. B-44-290	LS	1.000	1.000
0384	650.6500	Construction Staking Structure Layout (structure) 09. B-44-289	LS	1.000	1.000
0386	650.6500	Construction Staking Structure Layout (structure) 10. B-44-291	LS	1.000	1.000
0388	650.6500	Construction Staking Structure Layout (structure) 11. B-44-292	LS	1.000	1.000
0390	650.6500	Construction Staking Structure Layout (structure) 12. B-44-294	LS	1.000	1.000
0392	650.6500	Construction Staking Structure Layout (structure) 13. B-44-293	LS	1.000	1.000
0394	650.6500	Construction Staking Structure Layout (structure) 14. B-44-296	LS	1.000	1.000
0396	650.6500	Construction Staking Structure Layout (structure) 17. R-44-19	LS	1.000	1.000
0398	650.6500	Construction Staking Structure Layout (structure) 18. B-44-295	LS	1.000	1.000
0400	650.6500	Construction Staking Structure Layout (structure) 19. R-44-17	LS	1.000	1.000

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Line	Item	Item Description	Unit	Total	Qty
0402	650.6500	Construction Staking Structure Layout (structure) 20. R-44-18	LS	1.000	1.000
0404	650.6500	Construction Staking Structure Layout (structure) 21. R-44-20	LS	1.000	1.000
0406	650.6500	Construction Staking Structure Layout (structure) 22. R-44-21	LS	1.000	1.000
0408	650.9910	Construction Staking Supplemental Control (project) 23. 1146-75-71	LS	1.000	1.000
0410	650.9920	Construction Staking Slope Stakes	LF	40,145.000	40,145.000
0412	690.0150	Sawing Asphalt	LF	1,157.000	1,157.000
0414	690.0250	Sawing Concrete	LF	40.000	40.000
0416	715.0415	Incentive Strength Concrete Pavement	DOL	500.000	500.000
0418	715.0502	Incentive Strength Concrete Structures	DOL	36,866.000	36,866.000
0420	740.0440	Incentive IRI Ride	DOL	1,240.000	1,240.000
0422	801.0117	Railroad Flagging Reimbursement	DOL	117,000.000	117,000.000
0424	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,100.000	2,100.000
0426	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	5,760.000	5,760.000
0428	SPV.0035	Special 01. Concrete Masonry Eco-Passage	CY	12.900	12.900
0430	SPV.0035	Special 02. Roadway Embankment	CY	1,234,486.000	1,234,486.000
0432	SPV.0060	Special 01. Temporary Slope Drain	EACH	8.000	8.000
0434	SPV.0060	Special 02. Wood Gates Double Leaf 20-Foot	EACH	2.000	2.000
0436	SPV.0075	Special 01. Street Sweeping	HRS	16.000	16.000
0438	SPV.0090	Special 01. Fence Chain Link 5 - FT Special	LF	6,294.000	6,294.000
0440	SPV.0090	Special 02. Pedestrian Overhead Protection	LF	400.000	400.000
0442	SPV.0105	Special 01. Reconnect Pipe Underdrain Parcel 165	LS	1.000	1.000
0444	SPV.0165	Special 01. Steel Grating	SF	144.000	144.000
0446	SPV.0165	Special 02. Wall Concrete Panel Mechanically Stabilized Earth LRFD/ QMP R-44-17	SF	10,510.000	10,510.000
0448	SPV.0165	Special 03. Wall Concrete Panel Mechanically Stabilized Earth LRFD/ QMP R-44-19	SF	4,210.000	4,210.000
0450	SPV.0165	Special 04. Wall Concrete Panel Mechanically Stabilized Earth LRFD/ QMP R-44-20	SF	2,775.000	2,775.000
0452	SPV.0165	Special 05. Wall Concrete Panel Mechanically Stabilized Earth LRFD/ QMP R-44-21	SF	3,063.000	3,063.000
0454	SPV.0165	Special 06. Wall Concrete Panel Mechanically Stabilized Earth LRFD/ QMP R-44-18	SF	3,051.000	3,051.000
0456	SPV.0165	Special 07. Temporary Shoring Railroad	SF	3,520.000	3,520.000
0458	SPV.0180	Special 01. Salvaged Topsoil Above Riprap	SY	2,687.000	2,687.000
0460	SPV.0195	Special 01. 2" Clear Stone	TON	151.000	151.000
0462	SPV.0195	Special 02. Shot Rock	TON	16,230.000	16,230.000
0464	SPV.0195	Special 03. Excavation, Hauling, and Disposal of Contaminated Material	TON	16,958.000	16,958.000

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

Clearing and Grubbing Summary

Station	to	Station	Location	201.0105 Clearing STA.	201.0205 Grubbing STA.	Remarks
277+00	--	284+00	STH 15 EB + WB	14	14	
286+00	--	289+00	STH 15 EB	3	3	
320+00	--	321+00	STH 15 EB + WB	2	2	
326+00	--	328+00	STH 15 WB	2	2	
330+00	--	334+00	STH 15 EB + WB	8	8	
346+00	--	361+00	STH 15 EB + WB	30	30	
363+00	--	365+00	STH 15 WB	2	2	
365+00	--	370+00	STH 15 EB	5	5	
372+00	--	380+00	STH 15 EB + WB	16	16	
387+00	--	394+00	STH 15 EB + WB	14	14	
395+00	--	398+00	STH 15 WB	3	3	
397+00	--	399+00	STH 15 EB	2	2	
400+00	--	402+00	STH 15 WB	2	2	
404+00	--	405+00	STH 15 EB	1	1	
405+00	--	406+00	STH 15 EB + WB	2	2	
406+00	--	408+00	STH 15 EB	2	2	
408+00	--	410+00	STH 15 EB + WB	4	4	
417+00	--	427+00	STH 15 EB + WB	20	20	
429+00	--	433+00	STH 15 EB + WB	8	8	
434+00	--	435+00	STH 15 EB	1	1	
435+00	--	437+00	STH 15 EB + WB	4	4	
446+00	--	448+00	STH 15 EB + WB	4	4	
449+00	--	453+00	STH 15 EB + WB	8	8	
15+00	--	17+00	CTH MM	2	2	RT
22+00	--	26+00	CTH MM	4	4	
			Total	163	163	

211.0100 Prepare Foundation for Asphaltic Paving

Project	LS	Remarks
1146-75-71	1	CTH M, CTH MM, N. Crest
Total	1	

204.0230 Removing Building

Location	STA	Remarks
STH 15 EB	447+00	20'x24' SHED, NO FOUNDATION

Removing Old Culverts Summary

Station	Location	203.0100 Removing Small Pipe Culverts Each	204.0180 Removing Delineators and Markers Each	Remarks
12+90	N. Crest Road	1	1	30-Inch CMCP, RT
24+14	CTH M	1	1	30-Inch CMCP, RT
	Total	2	2	

Removing Curb and Gutter 204.0150

Station	to	Station	Location	L.F.	Remark
18+62	--	19+45	CTH M	83	RT
107+98	--	108+03	Nash	10	LT,RT
111+98	--	112+03	Nash	10	LT,RT
			Total	103	

204.0110 Removing Asphaltic Surface

Station	to	Station	Location	SY	Remarks
11+16	--	11+20	Nash	13	For Storm Sewer Install
111+98	--	112+03	Nash	234	Remove Temp. Surface
18+62	--	28+56	CTH M	331	Remove Shoulder
			Total	579	

214.0100 Obliteratling Old Road

Station	to	Station	Location	STA	Remarks
11+48		20+73	CTH MM	9.3	
			Total	9.3	

203.0200 Removing Old Structure

Station	Location	Each	Remarks
339+40	STH 15	1	Remove Private Structure
	Total	1	

Storm Sewer Removal Summary

Station	Offset	Location	204.0210 Removing Manholes Each	204.0220 Removing Inlets Each	204.0245 Removing StormSewer 30-Inch LF	Remarks
19+41.	20' RT	CTH M	1	1	115	
		Total	1	1	115	

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

Removing Concrete Sidewalk
204.0155

Station			Location	S.Y.	Remarks
107+75	--	108+00	Nash St.	22	RT
111+88	--	112+13	Nash St.	14	RT
			Total	36	

305.0500
Shaping
Shoulders

STA	to	STA	Location	STA	Remarks
107+00	--	113+00	Nash Street	6	Milling Limits
18+62	--	23+86	STH 15 EB + WB	5.2	Marsh Excavation Limits
			Total	11.2	

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204.9090.S
Removing Underdrain

Station	Location	to	Station	Location	LF	Remarks (Information Only)
302+44	STH 15 WB, 110' LT	--	305+80	STH 15 EB, 108' RT	400	--
319+14	STH 15 EB, 100' RT	--	320+04	STH 15 EB, 19' LT	125	west removal limits estimated
				Total	525	

640.1305.S
Clay Cover

SPV.0195.03
Excavation, Hauling and Disposal of Hazardous Materials

STA	to	STA	Location	CY	Tons	Remarks
432+00	--	432+50	STH 15 WB	0	0	
432+50.	--	433+00.	STH 15 WB	97	626	
433+00.	--	433+50.	STH 15 WB	208	1910	
433+50.	--	434+00.	STH 15 WB	215	3019	
434+00.	--	434+50.	STH 15 WB	229	3763	
434+50.	--	435+00.	STH 15 WB	255	3830	
435+00.	--	444+50.	STH 15 WB	157	2868	
435+50.	--	436+00.	STH 15 WB	28	942	
			Total	1189	16,958	

618.0100
Maintenance and Repair
Of Haul Roads

Project	Each	Remarks
1146-75-71	1	
Total	1	

Concrete
Surface Drains
416.1010

Station	Side	Location	C.Y.	Remarks
23+08	RT	CTH M	1.4	
10+68	LT	CTH MM	2	
10+91	RT	CTH MM	2	
		Total	5.4	

642.5401
Field Office
Type D

Project	Each	Remarks
1146-75-71	1	
Total	1	

Concrete Curb and Gutter

Station	to	Station	Location	601.0411 30-inch Type D L.F.	601.0557 6-Inch Sloped 36-Inch Type D L.F.	650.5500 Construction Staking Curb Gutter and Curb & Gutter L.F.	Remarks
18+89	--	23+15	CTH M	444		444	
10+24	--	10+84	CTH MM		157	157	
107+98	--	108+03	Nash	10		10	
111+98	--	112+03	Nash	10		10	
			Total	464	157	621	

643.5000
Traffic Control

Project	Each	Remarks
1146-75-71	1	
Total	1	

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Station	to	Station	Location	208.1100 Select Borrow CY	305.0110 Base Aggregate Dense 3/4-Inch Ton	305.0120* Base Aggregate Dense 1 1/4-Inch Ton	311.0110* Breaker Run Ton	312.0110 Base Select Crush Material Ton	624.0100 Water Compaction Mgal	624.0100 Water Dust Control Mgal	SPV.0195.01 2-Inch Clear Stone Ton	SPV.0195.02 Shot Rock Ton	Remarks
275+00	--	278+88	STH 15 EB			1,787		2,744	18	7			
275+00	--	277+07	STH 15 WB			1,423		2,206	14	6			
319+16	--	321+43	STH 15 EB + WB			284		387	3	1			Median Crossover
320+19	--	--	STH 15 WB		216								Driveway
335+00	--	--	STH 15 WB		20								Driveway
281+02	--	339+40	STH 15 EB			10,818		15,894	108	43			
328+00	--	362+00	STH 15 EB + WB	47,757			88,148						Marsh Excavation
279+86	--	339+05	STH 15 WB			10,968	16,114		271	108		16,230	Shot Rock for Partika Pond
346+60	--	--	STH 15 EB + WB		185								2 driveways
345+46	--	347+74	STH 15 EB + WB			284		387	3	1			Median Crossover
340+80	--	372+99	STH 15 EB			5,965		8,764	60	24			
340+46	--	372+95	STH 15 WB			6,022		8,847	60	24			
373+92	--	388+64	STH 15 EB			2,727		4,007	27	11			
373+87	--	388+69	STH 15 WB			2,746		4,034	27	11			
408+54	--	410+82	STH 15 EB + WB			284		387	3	1			Median Crossover
434+00	--	--	STH 15 WB		72								Driveway
446+86	--	449+14	STH 15 EB + WB			284		387	3	1			Snowmobile Crossover
429+50	--	431+50	STH 15 EB + WB	8,000									Marsh Excavation
450+00	--	458+00	STH 15 EB + WB	24,000									Marsh Excavation
448+00	--	--	STH 15 EB + WB		140				0	0			2 driveways
389+56	--	465+00	STH 15 EB			13,981		20,540	140	56			
389+61	--	465+00	STH 15 WB			13,972		20,527	140	56			
23+15	--	26+26	CTH M			1,180			12	5			
11+30	--	12+62	N. Crest		19	19							Cul-de-sac
12+10	--	--	N. Crest		90								2 driveways
11+00	--	26+77	CTH MM			3,280			33	13			
15+27	--	--	CTH MM		78								2 driveways
25+69	--	--	CTH MM		19								Driveway
20+00	--	24+93	Samb's Driveway		370			650					
1+50	--	4+60	Black Otter Creek								151		
								Subtotal	921	368			
			Total	79,757	1,209	76,021	104,262	89,761	1,290		151	16,230	

*SEE STRUCTURES FOR ADDITIONAL QUANTITIES

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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	MISCELLANEOUS QUANTITIES	SHEET: 73	E

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Street Sweeping
SPV.0075.01

Station	to	Station	Location	Hours	Remarks
18+62.8	--	28+55.19	CTH M	8	
107+00	--	113-00	Nash St	8	
			Total	16	

Pavement Marking Summary

Station	to	Station	Location	646.1020 Marking Line Epoxy 4 - Inch White L.F.	646.1020 Marking Line Epoxy 4 - Inch Yellow L.F.	646.3020 Marking Line Epoxy 8-Inch White L.F.	649.0105 Temporary Marking Line Paint 4 - Inch White L.F.	Remarks
18+62	--	28+56.	CTH M	2,176		200	120	Restored From Stage 2
11+00	--	26+77	CTH MM	3,000	1,500			
			Subtotal	5,176	1,500			
			Total	6,676		200	120	

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Plant Data Summary

Station	to	Station	Location	Common Name	Scientific Name	Type	Size When Planted	Root Zone Mode	Min. Ball Size	Min. Hole Size (Dia.)	Wrapping Req'd	Fert. Units Req'd	Rodent Protection Req'd	Mulch Ring Diameter	632.0101 Trees Each	632.0201 Shrubs Each	632.9101 Landscaping Planting Surveillance and Care Cycles Each
391+00	--	401+00	STH 15 EB	Birch, Paper	Betula Papyrifera	1T	4-FT	CG	16-Inch	40-Inch	Yes	3	Yes	52-Inch	9		
391+00	--	401+00	STH 15 EB	Arborvitae, American	Thuja Occidentalis	4E	5-FT	CG	20-Inch	44-Inch	Yes	3	Yes	56-Inch	28		
391+00	--	401+00	STH 15 EB	Dogwood, Redosier	Cornus Sericea	2S	4-FT	CG	14-Inch	38-Inch	No	1	No	50-Inch		50	
391+00	--	401+00	STH 15 EB														30
		Total													37	50	30

Removing Fence

Station	to	Station	Location	204.0170 L.F.	Remarks
347+00	--	347+00	STH 15 EB + WB	370	along former property line
362+00	--	372+00	STH 15 EB + WB	3,325	
389+68	--	390+83	STH 15 EB	205	
392+02	--	392+16	STH 15 WB	95	to RW
393+17	--	393+21	STH 15 EB + WB	65	
391+42	--	394+65	STH 15 EB	360	to end of PLE only
392+16	--	399+29	STH 15 EB + WB	830	
405+00	--	406+91	STH 15 EB + WB	385	
21+70	--	26+69	CTH M LT	915	includes along Harris Way
22+28	--	23+96	CTH M RT	255	within RW only
11+59	--	12+03	North Crest St. LT	50	
			Total	6,855	

SPV.0105.01
Reconnect Pipe Underdrain

Station	Location	Offset	LS	Remarks (Information Only)
304+67	STH 15 EB	118' RT	--	outfall outside project limits
305+80	STH 15 EB	108' RT	--	Approx 820 LF pipe underdrain req'd
320+04	STH 15 EB	19' LT	--	Appprox 30 LF pipe underdrain req'd
		Total	1	

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CONCRETE SUMMARY

Station	to	Station	Location	415.0410 Concrete Pavement Approach Slab S.Y.	520.8000 Concrete Collar For Pipes Each	602.0405 Concrete Sidewalk 4-Inch S.F.	SPV.0035 Concrete Masonry Eco-Passage C.Y.	SPV.0165.01 Steel Grating S.F.	Remarks
278+88	--	--	STH 15 EB	21					B-44-289
277+07	--	--	STH 15 WB	21					B-44-290
281+02	--	--	STH 15 EB	24					B-44-289
279+87	--	--	STH 15 WB	25					B-44-290
309+00	--	--	STH 15 EB				12.9	144	
373+00	--	--	STH 15 EB	35					B-44-291
372+95	--	--	STH 15 WB	31					B-44-292
373+93	--	--	STH 15 EB	43					B-44-291
373+87	--	--	STH 15 WB	44					B-44-292
388+64	--	--	STH 15 EB	23					B-44-293
388+69	--	--	STH 15 WB	23					B-44-294
389+57	--	--	STH 15 EB	23					B-44-293
389+61	--	--	STH 15 WB	23					B-44-294
18+89	--	23+15	CTH M		1				
107+75	--	108+00	Nash St.		2	200			Replace Temp Asphaltic Surface
111+88	--	112+13	Nash St.			125			Replace Temp Asphaltic Surface
			Total	336	3	325	12.9	144	

Asphalt Summary

Station	to	Station	Location	204.0120 Removing Asphaltic Surface Milling SY	455.0605 Tack Coat GAL	460.5223 HMA Pavement 3 LT 58-28 S TON	460.5224 HMA Pavement 4 LT 58-28 S TON	465.0110 Asphaltic Surface Patching TON	465.0120 Asphaltic Surface Driveway and Field Entrances TON	Remarks
11+00	--	26+77	CTH MM		262.83	680.06	528.94			
25+70	--	--	CTH MM		1.00				13.00	20' PE Wagner Dwy
23+14	--	28+55	CTH M	1,561.22	199.45	127.13	285.88			Includes Intersection
107+00	--	113+00	Nash St.	2,003.78	143.64		240.00	14.70		
11+30	--	12+62	N. Crest		49.01	127.13	98.88			
			Total	3,565	656	934	1,154	15	13	

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Finishing Summary

Station	to	Station	Location	625.0500 Salvaged Topsoil SY	627.0200 Mulching SY	629.0210 Fertilizer Type B CWT	630.0110 Seeding Mixture No. 10 LB	630.0120 Seeding Mixture No. 20 LB	630.0140 Seeding Mixture No. 40 LB	SPV.0180.01 Salvaged Topsoil Above Riprap SY	630.0500 Seed Water MGAL	Remarks
275+00	--	278+88	STH 15 EB	5,954		3.8		35			134	
275+00	--	277+07	STH 15 WB	1,173		0.7		32			26	
281+02	--	339+40	STH 15 EB	44,333	19,072	27.9	598	1,197			996	No. 10 Seed in Black Otter Creek and Partika Pond Wetland Area
279+87	--	339+05	STH 15 WB	40,963	16,413	25.8	553	1,106			920	No. 10 Seed in Black Otter Creek and Partika Pond Wetland Area
340+81	--	373+00	STH 15 EB	27,333	15,783	17.2	369	738		2,687	614	No. 10 Seed in Black Otter Creek Wetland Area
340+46	--	372+95	STH 15 WB	16,889	15,383	10.6	228	456			379	No. 10 Seed in Black Otter Creek Wetland Area
373+93	--	388+64	STH 15 EB	4,593		2.9	92	124			103	No. 10 Seed in Pond Areas
377+87	--	388+69	STH 15 WB	12,185	3,810	7.7	40	329			274	No. 10 Seed in Pond Areas
389+57	--	465+00	STH 15 EB	68,889	23,086	43.4		1,860			1,547	
389+61	--	465+00	STH 15 WB	68,185	29,799	43.0	930	1,841			1,531	No. 10 Seed in Pond Areas and Wetland Fills
11+00	--	26+77	CTH MM	10,185	5,119	6.4	138		11		229	No. 40 Seed in property owners yard
18+89	--	23+15	CTH M	2,074	1,402	1.3	28				47	
11+30	--	12+62	N. Crest	111		0.1			2		2	
20+00	--	24+93	Samb's Driveway	2,200	2,200	1.0		60			49	
--	--	--	Borrow Pits	37,500	37,500	23.6		1,000			842	Estimated
--	--	--	Undistributed		42,392	26.7	744	2,194	3		1,924	
			Total	342,567	211,960	242	3,720	10,972	16	2,687	9,618	

Traffic Control Summary

Location	643.0300 Traffic Control Drums Each	643.0300 Traffic Control Drums Days	643.0410 Traffic Control Barricades Type II Each	643.0410 Traffic Control Barricades Type II Days	643.0420 Traffic Control Barricades Type III Each	643.0420 Traffic Control Barricades Type III Days	643.0705 Traffic Control Warning Lights Type A Each	643.0705 Traffic Control Warning Lights Type A Days	643.0900 Traffic Control Signs Each	643.0900 Traffic Control Signs Days	643.1050 Traffic Control Signs PCMS* Each	643.1050 Traffic Control Signs PCMS* Days	Remarks
Stage 1 - approx. 1 year													
CTH M/MM Area (90 days)	20	1800			8	720	4	360	34	3,060	4	28	CTH M, Nash St. bridge construction activities
Snowmobile Trail (120 days)					16	1,920	8	960	4	480			snowmobile trail remains open, block off access to highway
Stage 2 - approx 37 days													
CTH M/MM Area (30 days)					8	320	4	160	24	960	2	14	CTH MM closure
Nash Street (7 days)			4	28	6	42			12	84			
UNDISTRIBUTED		450		7		751		370		1,146			
Total		2,250		35		3,753		1,850		5,730		42	

* install 7 days prior to beginning of work

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* NOTES ITEM FOUND ELSE WHERE IN PLAN

Temporary Erosion Control Summary

Station	to	Station	Location	511.1200 Temporary Shoring B-44-296/295 SF	628.1104 Erosion Bale Each	628.1504 Silt Fence LF	628.1520 Silt Fence Maintance LF	628.6005 Turbidity Barrier SY	628.7005 Inlet Protection Type A Each	628.7015 Inlet Protection Type C Each	628.7504 Temporary Ditch Checks LF	628.7560 Tracking Pad Each	628.7560.S Stone or Rock Ditch Checks CY	628.7570 Rock Bags* Each	SPV.0060.01 Temporary Slope Drains Each	Remarks
275+00	--	281+02	STH 15 EB			864	864				48				2	
275+00	--	279+87	STH 15 WB			325	325	195								Turb. 251' x 7'
290+40	--	--	STH 15 WB						1							
299+70	--	--	STH 15 WB						1							
305+00	--	--	STH 15 WB						1							
315+00	--	--	STH 15 WB						1							
319+78	--	--	STH 15 WB						1							
328+00	--	--	STH 15 WB						1							
333+54	--	--	STH 15 WB						1							
338+35	--	--	STH 15 WB						1							
281+02	--	339+40	STH 15 EB			628	628	37			80					Turb. 67' x 5'
279+87	--	339+05	STH 15 WB			5,122	5,122	139			48					Turb. 250' x 5'
346+00	--	--	STH 15 WB						1							
346+72	--	--	STH 15 WB						1							
352+00	--	--	STH 15 WB						1							
359+00	--	--	STH 15 WB						1							
366+00	--	--	STH 15 WB						1							
340+81	--	373+00	STH 15 EB	4,707		1,739	1,739				72				2	
340+46	--	372+95	STH 15 WB			3,706	3,706				80					
374+30	--	--	STH 15 WB						1							
384+00	--	--	STH 15 WB						1							
373+93	--	388+64	STH 15 EB								40					
377+87	--	388+69	STH 15 WB								32				2	
390+00	--	--	STH 15 WB						1							
398+00	--	--	STH 15 WB						1							
403+79	--	--	STH 15 EB						1							
410+50	--	--	STH 15 EB						1							
425+00	--	--	STH 15 EB						1							
432+00	--	--	STH 15 EB						1							
440+00	--	--	STH 15 EB						1							
448+60	--	--	STH 15 WB						1							
457+00	--	--	STH 15 EB						1							
465+00	--	--	STH 15 EB						1							
389+57	--	465+00	STH 15 EB			1,277	1,277				240				2	
389+61	--	465+00	STH 15 WB			492	492				232					
11+00	--	26+77	CTH MM			474	474				128					
18+73	--	--	CTH M						1							
22+50	--	--	CTH M						1	1						
18+89	--	23+15	CTH M													
11+30	--	12+62	N. Crest			190	190				8					
--	--	--	Undistributed	1,177	10	3,704	3,704	93			252	3	100	100		
			Total	5,884	10	18,521	18,521	464	27	1	1,260	3	100	100	8	

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				Permenant Erosion Control					
				606.0200	606.0300*	628.2004	628.2027	645.01200*	
				Riprap	Riprap	Erosion Mat Class I	Erosion Mat Class II	Geotextile Fabric	
				Medium	Heavy	Type B	Type C	Type HR	
Station	to	Station	Location	CY	CY	SY	SY	SY	Remarks
273+50	--	281+02	STH 15 EB			5,150			
273+50	--	279+87	STH 15 WB			1,301			
290+40	--	--	STH 15 WB	3				6	
299+70	--	--	STH 15 WB	3				6	
302+98	--	--	STH 15 WB	6				12	
305+00	--	--	STH 15 WB	3				6	
315+00	--	--	STH 15 WB	3				6	
320+00	--	--	STH 15 WB	23				46	
328+00	--	--	STH 15 WB	3				6	
333+55	--	--	STH 15 WB	11				22	
338+55	--	--	STH 15 WB	3				6	
281+02	--	339+40	STH 15 EB			25,261			
279+87	--	339+05	STH 15 WB			24,550			
346+00	--	--	STH 15 WB	3				6	
352+00	--	--	STH 15 WB	3				6	
359+00	--	--	STH 15 WB	3				6	
359+90	--	--	STH 15 WB	10				20	
356+00	--	--	STH 15 WB	3				6	
340+81	--	373+00	STH 15 EB			11,550		466	
340+46	--	372+95	STH 15 WB	413	312	1,506	2,687	1451	Class II C Emat and Heavy Riprap at Black Otter Creek
374+30	--	--	STH 15 WB	3				6	
384+00	--	--	STH 15 WB	2				4	
373+93	--	388+64	STH 15 EB	5		4,593			
377+87	--	388+69	STH 15 WB	3		8,375			
390+00	--	--	STH 15 WB	3				6	
392+28	--	--	STH 15 EB	7				14	
398+00	--	--	STH 15 WB	7				14	
402+00	--	--	STH 15 EB	4				8	
403+79	--	--	STH 15 EB	3				6	
410+50	--	--	STH 15 EB	3				6	
425+00	--	--	STH 15 EB	3				6	
431+00	--	--	STH 15 EB	6				12	
432+00	--	--	STH 15 EB	3				6	
440+00	--	--	STH 15 EB	3				6	
448+60	--	--	STH 15 WB	3				6	
453+29	--	--	STH 15 EB	11				22	
457+00	--	--	STH 15 EB	3				6	
465+00	--	--	STH 15 EB	3				6	
389+57	--	465+00	STH 15 EB			45,803			
389+61	--	465+00	STH 15 WB	10		38,386			
10+30	--	--	CTH MM	2				4	
10+68	--	--	CTH MM	6				12	
10+91	--	--	CTH MM	1				2	
11+00	--	26+77	CTH MM			5,066			
23+00	--	--	CTH M	8				16	
18+89	--	23+15	CTH M			672			
11+30	--	13+13	N. Crest St.	14		111		28	
--	--	--	Undistributed	152	78	43,081		568	
			Total	762	390	215,405	2687	2840	

*SEE STRUCTURES FOR ADDITIONAL QUANTITIES

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Mobilizations Summary

Project	628.1905 Mobilizations Erosion Control Each	628.1910 Mobilizations Emergency Erosion Control Each	Remarks
1146-75-71	20	15	
Total	20	15	

Sawing Summary

Station	to	Station	Location	Sawing Asphalt 690.0150 L.F.	Sawing Concrete 690.0250 L.F.	Remarks
11+30.	--	--	N. Crest St	24		Roadway limits
18+62.8	to	28+55.19	CTH M	1043		Shoulder RT, Milling Limits
107+00.	--	--	Nash St	32		Milling Limit
107+75.	--	108+00.	Nash St		15	Sidewalk, C+G RT
107+85.	--	107+90.	Nash St		5	C+G LT
111+88.	--	112+13.	Nash St		15	Sidewalk, C+G RT
111+98.	--	112+03.	Nash St		5	C+G LT
113+00.	--	--	Nash St	32		Milling Limit
26+77.	--	--	CTH MM	26		Roadway limits
			Total	1,157	40	

Staking Summary

Station	to	Station	Location	650.4500 Construction Staking Subgrade L.F.	650.5000 Construction Staking Base L.F.	650.9920 Construction Staking Slope Stakes L.F.	Remarks
275+00	--	278+88	STH 15 EB	388	388	388	
275+00	--	277+07	STH 15 WB	207	207	207	
281+02	--	349+40	STH 15 EB	6,838	6,838	6,838	
279+87	--	339+05	STH 15 WB	5,918	5,918	5,918	
340+81	--	373+00	STH 15 EB	3,219	3,219	3,219	
340+46	--	372+95	STH 15 WB	3,249	3,249	3,249	
373+93	--	388+64	STH 15 EB	1,471	1,471	1,471	
377+87	--	388+69	STH 15 WB	1,082	1,082	1,082	
389+57	--	465+00	STH 15 EB	7,543	7,543	7,543	
389+61	--	465+00	STH 15 WB	7,539	7,539	7,539	
18+89	--	28+71	CTH M		982	982	
11+00	--	26+77	CTH MM		1,577	1,577	
11+30	--	12+62	N. Crest		132	132	
			Total	37,454	40,145	40,145	

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Fencing Summary

Station	to	Station	Location	616.0100 Wire Woven Fence 4-FT L.F.	616.0120.S Fencing Small Animals L.F.	616.0700.S Fence Safety L.F.	644.1810 Temporary Pedestrian Barricade L.F.	SPV.0060.02 Wooded Gates Double Leaf 20-FT Each	SPV.0090 Fence Chain Link 5-FT Special L.F.	SPV.0090.02 Pedestrian Overhead Protection L.F.	Remarks
281+02	--	349+40	STH 15 EB	6,079	6,079						
279+87	--	339+05	STH 15 WB	2,575	225				3,648		
340+81	--	373+00	STH 15 EB	3,353	3,353						
340+46	--	372+95	STH 15 WB	180	180				2,646		
373+93	--	388+64	STH 15 EB	1,649							
377+87	--	388+69	STH 15 WB	1,793							
389+57	--	465+00	STH 15 EB	7,769				1			
389+61	--	465+00	STH 15 WB	8,002				1			
107+75.	--	112+13.	Nash			400	876			400	LT,RT
			Total	31,400	9,837	400	876	2	6,294	400	

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Location	From/To Station	205.0100 Excavation Common, CY (1)		Available Material, CY (5)	205.0400 Excavation Marsh, CY (6)	205.0200 Excavation Rock, CY (7)	Fill	Mass Ordinate +/- (8)	SPV.0035.02 Roadway Embankment, CY (4)	Remarks:
		Cut, CY (2)	EBS Ex., CY (3)							
TEMPORARY RAMP	273+61/ 275+00	1	0	1	0	0	9,935	-9,934	9,935	
STA 275+00 to WCL RR	275+00/279+00	93	0	93	0	0	48,335	-48,242	48,335	
WCL RR to BLACK OTTER CREEK	279+00/340+00	8,576	0	8,576	35,410	0	584,991	-541,004	584,991	
BLACK OTTER CREEK to CTH M	340+00/373+50	1,776	0	1,776	58,771	0	217,781	-157,235	217,781	
CTH M to NASH ST.	373+50/389+00	39,349	0	39,349	0	25,373	59,473	-20,123	59,473	
CTH M	18+62.78/28+55.18	1,355	0	1,355	0	0	400	955	400	
N. CREST ST.	11+30/12+52.02	534	0	534	0	0	125	409	125	
CTH MM	10+15/26+76.55	9,258	0	9,258	0	180	337	8,921	337	
NASH ST. to STH 15 STA 465+00	389+00/465+00	727,849	21,670	727,849	33,454	0	323,043	459,930	323,043	
	Totals, CY	788,791	21,670	788,791	127,635	25,553	1,234,486	-296,389	1,234,486	
	Grand Total, CY	810,462								

Notes:

(1) Common Excavation is the sum of the Cut and EBS Excavation columns.

(2) Salvaged/Unsuable Pavement Material is included in Cut.

(3) EBS Excavation to be backfilled with Select Borrow material.

(4) Roadway Embankment does not include material used to fill Marsh Excavation

(5) Available Material = Cut - Salvaged/Unusuable Pavement Material

(6) See construction detail for limits of excavation and disposal.

(7) Excavation Rock not included in Cut

(8) The Mass Ordinate is for informational purposes only as common excavation and roadway embankment are not balanced for quantity purposes and does not guarantee the quality of common excavation, or if it can be reused on site. EBS and Marsh Excavation NOT included in Mass Ordinate determination.

3

CULVERT PIPE REINFORCED CONCRETE - STH 15

ALL ITEMS CATEGORY 0010

STATION	INLET OFFSET, FT	ELEVATION	STATION	OUTLET OFFSET, FT	ELEVATION	SLOPE	LOCATION	522.0112 CPRC CLASS III 12 - INCH L.F.	522.0118 CPRC CLASS III 18 - INCH L.F.	522.0124* CPRC CLASS III 24 - INCH L.F.	522.0130* CPRC CLASS III 30 - INCH L.F.	522.0136* CPRC CLASS III 36 - INCH L.F.	522.0142* CPRC CLASS III 42 - INCH L.F.	522.0154* CPRC CLASS III 54 - INCH L.F.	522.0418* CPRC CLASS IV 18 - INCH L.F.	522.0430* CPRC CLASS IV 30 - INCH L.F.	522.0460* CPRC CLASS IV 60 - INCH L.F.	522.0536* CPRC CLASS V 36 - INCH L.F.	522.0542* CPRC CLASS V 42 - INCH L.F.	522.2324* CPRCHE CLASS HE-III 24x38 - INCH L.F.	522.2348 CPRCHE CLASS HE-III 48x76 - INCH L.F.	522.2414 CPRCHE CLASS HE-IV 14x23 - INCH L.F.	522.2429 CPRCHE CLASS HE-IV 29x45 - INCH L.F.	628.7555* CULVERT PIPE CHECKS EACH	REMARKS
282+79	143.9 RT	784.17	283+91	231.7 LT	775.50	2.21%	STH 15 EB												392					5	CLASS B BEDDING REQ'D
288+52	146.2 RT	781.00	290+24	215.9 LT	772.80	2.04%	STH 15 EB											402						5	
290+40	32.3 RT	807.80	290+40	58.9 LT	796.50	2.05%	STH 15 WB		90															5	
297+22	108.8 RT	768.00	297+21	193.0 LT	767.70	0.10%	STH 15 EB										302							5	POND HYDRAULICS REQUIRES PLAN INV. BE UNCHANGED.
297+30	108.8 RT	768.00	297+30	193.0 LT	767.70	0.10%	STH 15 EB										302							5	
299+70	32.1 RT	782.30	299+70	58.2 LT	780.49	2.00%	STH 15 WB		90															5	
301+97	67.0 RT	774.80	302+98	144.0 LT	769.20	2.39%	STH 15 EB				234													5	
305+00	31.0 RT	775.46	305+00	72.6 LT	770.90	4.44%	STH 15 WB		104															5	
309+00	45.1 RT	773.80	309+00	25.0 LT	772.68	1.60%	STH 15 EB																70	5	INVERT BURIED 6"
309+00	25.0 RT	772.59	309+00	53.3 LT	772.40	0.24%	STH 15 WB																78	5	INVERT BURIED 6"
315+00	30.7 RT	772.00	315+00	56.4 LT	770.50	1.72%	STH 15 WB								88									5	
319+78	29.3 LT	769.22	319+94	29.7 LT	769.14	0.50%	STH 15 EB		16															5	MEDIAN
319+93	95.1 LT	768.00	319+95	134.8 LT	767.00	2.52%	STH 15 WB													40				5	FE
319+99	89.9 LT	768.00	320+02	137.7 LT	767.00	2.09%	STH 15 WB													48				5	FE
320+01	46.8 RT	769.80	319+87	115.3 LT	768.40	0.86%	STH 15 EB									162								5	
320+07	46.3 RT	769.80	319+93	115.4 LT	768.40	0.86%	STH 15 EB									162								5	
328+00	30.0 RT	766.00	328+00	73.2 LT	761.70	4.17%	STH 15 WB		104															5	
333+54	73.7 RT	759.10	333+50	135.8 LT	758.40	0.33%	STH 15 EB				210													5	
333+60	73.7 RT	759.10	333+56	135.9 LT	758.40	0.33%	STH 15 EB				210													5	
334+63	84.9 LT	759.00	335+33	84.0 LT	759.50	0.72%	STH 15 WB			70														5	FE
338+35	29.3 RT	761.00	338+35	64.1 LT	759.90	1.18%	STH 15 WB		94															5	
346+00	30.0 RT	760.20	346+00	50.4 LT	760.10	0.12%	STH 15 WB								86									5	
346+72	61.2 LT	760.50	346+45	62.2 LT	760.00	1.88%	STH 15 WB			28														5	FE
346+75	60.4 RT	760.80	346+49	61.1 LT	760.30	1.96%	STH 15 EB			26														5	FE
347+15	30.0 RT	759.62	346+00	30.0 RT	759.62	0.00%	STH 15 WB								116									5	TO STA 346+00
352+00	30.0 RT	761.50	352+00	56.9 LT	760.60	1.03%	STH 15 WB								88									5	
359+00	30.0 RT	770.00	359+00	78.8 LT	763.40	6.06%	STH 15 WB		108															5	
359+90	76.8 RT	762.60	359+84	137.3 LT	762.20	0.19%	STH 15 EB							214										5	
366+00	29.7 RT	783.00	366+00	93.3 LT	773.60	7.71%	STH 15 WB		136															5	
374+30	31.3 RT	808.00	374+30	64.9 LT	807.04	1.00%	STH 15 WB		96															5	
384+00	22.2 RT	835.85	384+00	58.3 LT	833.00	3.54%	STH 15 WB		80															5	
390+00	37.9 RT	840.00	390+00	65.6 LT	838.97	1.00%	STH 15 WB								132									5	
392+28	177.4 LT	820.60	392+28	157.7 RT	804.80	4.72%	STH 15 EB											336						5	
394+45	193.6 RT	802.70	394+45	215.1 RT	801.70	4.67%	STH 15 EB			22														5	POND 394
398+00	30.5 RT	835.50	398+00	69.3 LT	833.10	2.40%	STH 15 WB		100															5	
401+69	106.5 RT	820.80	401+23	106.5 RT	820.20	1.29%	STH 15 EB	46																5	POND 402
402+00	117.5 LT	831.00	402+00	63.4 RT	828.92	1.16%	STH 15 EB					180												5	
403+79	30.4 LT	829.00	403+79	83.9 RT	827.90	5.25%	STH 15 EB		114															5	
410+50	30.5 LT	837.30	410+50	61.3 RT	836.30	1.09%	STH 15 EB								92									5	
425+00	30.0 LT	834.09	425+00	59.0 RT	830.90	1.12%	STH 15 EB								88									5	
430+72	151.7 LT	815.00	430+95	98.9 RT	813.20	0.72%	STH 15 EB						252											5	
432+00	30.0 LT	820.00	432+00	96.6 RT	815.10	3.87%	STH 15 EB		104															5	
434+32	59.8 LT	826.80	433+59	63.8 LT	825.30	2.05%	STH 15 WB			74														5	FE
440+00	19.3 LT	830.05	440+00	45.7 RT	829.80	0.38%	STH 15 EB		66															5	
447+67	58.5 LT	834.30	448+27	60.1 LT	834.30	0.00%	STH 15 WB			60														5	FE
448+60	31.1 RT	834.20	448+50	51.6 LT	834.10	0.12%	STH 15 WB															82		5	
453+29	132.4 LT	829.60	451+87	84.8 RT	826.90	1.04%	STH 15 EB														260			5	
457+00	30.0 LT	838.00	457+00	81.8 RT	835.00	2.68%	STH 15 EB		112															5	
465+00	30.0 LT	861.20	465+00	55.4 RT	860.90	0.35%	STH 15 EB								86									5	
							TOTAL	**46**	**1414**	**280**	**654**	**180**	**252**	**214**	**776**	**324**	**604**	**738**	**392**	**88**	**260**	**82**	**148**	**245**	

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	MISCELLANEOUS QUANTITIES	SHEET: 81	E

APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE - STAGE 1

ALL ITEMS CATEGORY 0010

STATION	INLET OFFSET, FT	ELEVATION	STATION	OUTLET OFFSET, FT	ELEVATION	LOCATION	522.1012 AEW FOR CPRC 12 - INCH EACH	522.1018* AEW FOR CPRC 18 - INCH EACH	522.1024* AEW FOR CPRC 24 - INCH EACH	522.1030* AEW FOR CPRC 30 - INCH EACH	522.1036* AEW FOR CPRC 36 - INCH EACH	522.1042* AEW FOR CPRC 42 - INCH EACH	522.1054* AEW FOR CPRC 54 - INCH EACH	522.1060* AEW FOR CPRC 60 - INCH EACH	522.2614* AEW FOR CPRC 14x23 -INCH EACH	522.2624* AEW FOR CPRC 24x38 -INCH EACH	522.2629 AEW FOR CPRC 29x45 -INCH EACH	522.2648 AEW FOR CPRC 48x76 -INCH EACH	633.5200* MARKERS CULVERT END EACH	611.9800.S PIPE GRATES EACH	650.6000* CONSTRUCTION STAKING PIPE CULVERTS EACH	REMARKS
282+79	143.9 RT	784.17	283+91	231.7 LT	775.50	STH 15 EB						2							2		1	MATCH INV EXIST 2'X2' BOX
288+52	146.2 RT	781.00	290+24	215.9 LT	772.80	STH 15 EB					2								2		1	
290+40	32.3 RT	807.80	290+40	58.9 LT	796.50	STH 15 WB		1											1		1	
297+22	108.8 RT	768.00	297+21	193.0 LT	767.70	STH 15 EB								2					2		1	
297+30	108.8 RT	768.00	297+30	193.0 LT	767.70	STH 15 EB								2					2		1	
299+70	32.1 RT	782.30	299+70	58.2 LT	780.49	STH 15 WB		1											1		1	
301+97	67.0 RT	774.80	302+98	144.0 LT	769.20	STH 15 EB				2									2		1	
305+00	31.0 RT	775.46	305+00	72.6 LT	770.90	STH 15 WB		1											1		1	
309+00	45.1 RT	773.80	309+00	25.0 LT	772.68	STH 15 EB											1		1		1	TURTLE PASSAGE
309+00	25.0 RT	772.59	309+00	53.3 LT	772.40	STH 15 WB											1		1		1	TURTLE PASSAGE
315+00	30.7 RT	772.00	315+00	56.4 LT	770.50	STH 15 WB		1											1		1	
319+78	29.3 LT	769.22	319+94	29.7 LT	769.14	STH 15 EB															1	
319+93	95.1 LT	768.00	319+95	134.8 LT	767.00	STH 15 WB										2					1	FE
319+99	89.9 LT	768.00	320+02	137.7 LT	767.00	STH 15 WB										2					1	FE
320+01	46.8 RT	769.80	319+87	115.3 LT	768.40	STH 15 EB				2									2		1	
320+07	46.3 RT	769.80	319+93	115.4 LT	768.40	STH 15 EB				2									2		1	
328+00	30.0 RT	766.00	328+00	73.2 LT	761.70	STH 15 WB		1											1		1	
333+54	73.7 RT	759.10	333+50	135.8 LT	758.40	STH 15 EB				2									2		1	
333+60	73.7 RT	759.10	333+56	135.9 LT	758.40	STH 15 EB				2									2		1	
334+63	84.9 LT	759.00	335+33	84.0 LT	759.50	STH 15 WB			2												1	FE
338+35	29.3 RT	761.00	338+35	64.1 LT	759.90	STH 15 WB		1											1		1	
346+00	30.0 RT	760.20	346+00	50.4 LT	760.10	STH 15 WB		1											1		1	
346+72	61.2 LT	760.50	346+45	62.2 LT	760.00	STH 15 WB			2												1	FE
346+75	60.4 RT	760.80	346+49	61.1 LT	760.30	STH 15 EB			2												1	FE
347+15	30.0 RT	759.62	346+00	30.0 RT	759.62	STH 15 WB															1	NO AEW REQ'D
352+00	30.0 RT	761.50	352+00	56.9 LT	760.60	STH 15 WB		1											1		1	
359+00	30.0 RT	770.00	359+00	78.8 LT	763.40	STH 15 WB		1											1		1	
359+90	76.8 RT	762.60	359+84	137.3 LT	762.20	STH 15 EB							2						2		1	
366+00	29.7 RT	783.00	366+00	93.3 LT	773.60	STH 15 WB		1											1		1	
374+30	31.3 RT	808.00	374+30	64.9 LT	807.04	STH 15 WB		1											1	1	1	
384+00	22.2 RT	835.85	384+00	58.3 LT	833.00	STH 15 WB		1											1		1	
390+00	37.9 RT	840.00	390+00	65.6 LT	838.97	STH 15 WB		1											1		1	
392+28	177.4 LT	820.60	392+28	157.7 RT	804.80	STH 15 EB					2								2	2	1	
394+45	193.6 RT	802.70	394+45	215.1 RT	801.70	STH 15 EB			1										1	1	1	POND 394
398+00	30.5 RT	835.50	398+00	69.3 LT	833.10	STH 15 WB		1											1	1	1	
401+69	106.5 RT	820.80	401+23	106.5 RT	820.20	STH 15 EB	2												2	2	1	POND 402
402+00	117.5 LT	831.00	402+00	63.4 RT	828.92	STH 15 EB					2								2	2	1	
403+79	30.4 LT	829.00	403+79	83.9 RT	827.90	STH 15 EB		1											1	1	1	
410+50	30.5 LT	837.30	410+50	61.3 RT	836.30	STH 15 EB		1											1		1	
425+00	30.0 LT	832.00	425+00	59.0 RT	831.00	STH 15 EB		1											1		1	
430+72	151.7 LT	815.00	430+95	98.9 RT	813.20	STH 15 EB						2							2		1	
432+00	30.0 LT	820.00	432+00	96.6 RT	815.10	STH 15 EB		1											1		1	
434+32	59.8 LT	826.80	433+59	63.8 LT	825.30	STH 15 WB			2												1	FE
440+00	19.3 LT	830.05	440+00	45.7 RT	829.80	STH 15 EB		1											1		1	
447+67	58.5 LT	834.30	448+27	60.1 LT	834.30	STH 15 WB			2												1	FE
448+60	31.1 RT	834.20	448+50	51.6 LT	834.10	STH 15 WB									1				1		1	
453+29	132.4 LT	829.60	451+87	84.8 RT	826.90	STH 15 EB												2	2		1	
457+00	30.0 LT	838.00	457+00	81.8 RT	835.00	STH 15 EB		1											1		1	
465+00	30.0 LT	861.20	465+00	55.4 RT	860.90	STH 15 EB		1											1	1	1	
						TOTAL	**2**	**21**	**11**	**10**	**6**	**4**	**2**	**4**	**1**	**4**	**2**	**2**	**55**	**11**	**49**	

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CULVERT PIPE REINFORCED CONCRETE - SIDE ROADS

ALL ITEMS CATEGORY 0010

STATION	INLET OFFSET, FT	ELEVATION	STATION	OUTLET OFFSET, FT	ELEVATION	SLOPE	LOCATION	522.0118* CPRC CLASS III 18 - INCH L.F.	522.0124* CPRC CLASS III 24 - INCH L.F.	522.0136* CPRC CLASS III 36-INCH L.F.	522.0318* CPRC CLASS IV 18 - INCH L.F.	522.2319* CPRCHE CLASS IV 19x30 - INCH L.F.	522.2424* CPRCHE CLASS HE-IV 24x38 - INCH L.F.	628.7555* CULVERT PIPE CHECKS EACH	REMARKS
22+60	13.18 RT	787.27	22+71	14.46 LT	787.12	0.50%	SAMBS DWY			30					
10+64	37.3 RT	778.15	10+64	29.2 LT	777.50	0.98%	CTH MM						66	5	
10+72	32.7 RT	778.15	10+72	26.2 LT	777.50	0.98%	CTH MM						60	5	
15+43	34.1 LT	792.75	15+09	24.0 LT	790.75	5.89%	CTH MM	34				60		5	
15+45	38.8 RT	794.50	15+03	35.7 RT	792.00	5.97%	CTH MM		42			60		5	
25+00	24.0 RT	828.33	25+00	24.0 LT	825.84	5.22%	CTH MM				40			5	PE
25+79	32.0 LT	825.80	25+59	33.6 LT	825.50	1.46%	CTH MM	20						5	
							TOTAL	**54**	**42**	**30**	**40**	**120**	**126**	**30**	

APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE - SIDE ROADS

ALL ITEMS CATEGORY 0010

STATION	INLET OFFSET, FT	ELEVATION	STATION	OUTLET OFFSET, FT	ELEVATION	LOCATION	522.1018 AEW FOR CPRC 18 - INCH EACH	522.1024* AEW FOR CPRC 24 - INCH EACH	522.1036* AEW FOR CPRC 36 - INCH EACH	522.2619* AEW FOR CPRC 19x30 -INCH EACH	522.2624* AEW FOR CPRC 24x38 -INCH EACH	633.5200* MARKERS CULVERT END EACH	650.6000* CONSTRUCTION STAKING PIPE CULVERTS EACH	REMARKS
22+60	13.18 RT	787.27	22+71	14.46 LT	787.12	SAMBS DWY			2				1	
10+64	37.3 RT	778.15	10+64	29.2 LT	777.50	CTH MM					2	2	1	
10+72	32.7 RT	778.15	10+72	26.2 LT	777.50	CTH MM					2	2	1	
15+43	34.1 LT	792.75	15+09	24.0 LT	790.75	CTH MM	2			2		4	1	
15+45	38.8 RT	794.50	15+03	35.7 RT	792.00	CTH MM		2		2		4	1	
25+00	24.0 RT	828.33	25+00	24.0 LT	825.84	CTH MM	2					2	1	PE
25+79	32.0 LT	825.80	25+59	33.6 LT	825.50	CTH MM	2						1	
						TOTAL	**6**	**2**	**2**	**4**	**4**	**14**	**6**	

DRAINAGE ITEM NOTES:

1) JOINT TIES FOR CONCRETE PIPE SHALL BE PROVIDED AT ALL CONCRETE APRON ENDWALLS.
   APRON ENDWALLS SHALL BE TIED FOR THE LAST THREE JOINTS AT PIPE ENDS.
   THE COST OF THESE TIES SHALL BE INCIDENTAL TO THE COST OF THE PIPE.
2) STATIONS AND OFFSETS ARE TO THE CENTER OF STRUCTURE OR TO THE END OF PIPE WHERE THERE IS AN ENDWALL.

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STORM SEWER STRUCTURE SUMMARY

STATION	LOCATION	OFFSET, FT	611.0612 INL. COVER TYPE C EACH	611.0530* MH COVER TYPE J EACH	611.0624* INL. COVER TYPE H EACH	611.0642* INL. COVER TYPE MS* EACH	611.2004* MH 4-FT EACH	611.2005* MH 5-FT EACH	611.2006* MH 6-FT EACH	611.2044* MH 4x4-FT EACH	611.3230* INLET 2x3 - FT EACH	611.3901* INLET MEDIAN 1 GRATE EACH	RIM/GRATE ELEVATION	DISCHARGE ELEVATION	STRUCTURE DEPTH, FT	REMARKS
18+73	CTH M	16.7 RT		1				1					793.09	788.35	3.95	
18+73	CTH M	40.7 RT				1						1	795.00	790.00	5.17	
21+00	CTH M	16.8 RT		1						1			789.36	785.13	3.44	
21+00	CTH M	21.0 RT			1						1		789.23	786.51	2.06	
22+50	CTH M	16.7 RT		1					1				787.34	783.00	3.64	
22+86	CTH M	34.8 RT											--	--	--	AEW
108+08	NASH ST	34.1 RT											817.75	814.10	--	EXISTING, (1)
108+33	NASH ST	92.1 LT				1						1	821.50	815.80	5.87	POND 387 RT, (2)
111+18	NASH ST	22.9 RT	1				1						830.37	825.94	3.52	COLLARS REQ'D
111+18	NASH ST	204.4 LT				1						1	833.50	827.50	6.17	POND 387 LT, (3)
		TOTAL	**1**	**3**	**1**	**3**	**1**	**1**	**1**	**1**	**1**	**3**				

O SLOPE INLET COVERS FOR 1G-MS
LLING REQ'D FOR 12-IN SSPRC
ORIFICE FOR 12" SS PIPE INV. 819.40 SIDE OPPOSITE STRUCTURE DISCHARGE
ORIFICE FOR 12" SS PIPE INV. 829.90 SIDE OPPOSITE STRUCTURE DISCHARGE

ALL ITEMS CATEGORY 0010

STORM SEWER PIPE SUMMARY

FROM STR.	TO STR.	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE	522.2629* AEW FOR SSPRCHE 29x45 - INCH EACH	608.0312 SSPRC CLASS III 12 - INCH L.F.	608.0315 SSPRC CLASS III 15 - INCH L.F.	608.0412 SSPRC CLASS IV 12 - INCH L.F.	608.0430 SSPRC CLASS IV 30 - INCH L.F.	608.2429 SSPRCHE CLASS HE-IV 29x45 - INCH L.F.	611.9800.S PIPE GRATES EACH	633.5200* MARKERS CULVERT END EACH	REMARKS
86	87	785.13	783.00	0.014					150				
86.1	86	786.51	786.40	2.37%				4					
87	88	783.00	782.80	0.50%	1					40	1	1	
---	1.2	819.50	819.40	1.62%		6							POND 387 RT, (1)
1.2	1.1	815.80	814.20	2.50%		64							POND 387 RT
---	2.1	830.00	829.90	0.76%		13							POND 387 LT, (2)
2.1	2.0	827.50	826.00	0.66%		227							POND 387 LT
---	2.0	826.25	826.03	4.48%			6						STUB/COLLAR
2.0	---	825.83	825.56	3.61%			6						STUB/COLLAR
				TOTAL	**1**	**310**	**12**	**4**	**150**	**40**	**1**	**1**	

(1) PROVIDE PVC PIPE CAP W/ 6-IN DIA. ORIFICE. INCIDENTAL TO PIPE.
(2) PROVIDE PVC PIPE CAP W/ 8-IN DIA. ORIFICE. INCIDENTAL TO PIPE.

ALL ITEMS CATEGORY 0010

3

MEDIAN INLET SUMMARY

STATION	OFFSET, FT	LOCATION	611.3901* INLET MEDIAN 1 GRATE EACH	611.3902 INLET MEDIAN 2 GRATE EACH	611.3904 INLET MEDIAN 4 GRATE EACH	611.0642* INLET COVER* TYPE MS EACH	611.2005 MH 5-FT EACH	611.0530* MH COVER TYPE J EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	RIM/GRATE ELEVATION	DISCHARGE ELEVATION	STRUCTURE DEPTH, FT	REMARKS
290+40	32.3 RT	STH 15 WB	1			1			1	810.81	807.80	3.22	
299+70	32.1 RT	STH 15 WB	1			1			1	785.32	782.30	3.23	
305+00	31.0 RT	STH 15 WB	1			1			1	777.59	775.46	2.34	
315+00	30.7 RT	STH 15 WB	1			1			1	773.75	771.37	2.59	
319+78	29.3 LT	STH 15 EB	1			1			1	772.04	769.22	3.03	TO JUNCTION MH
319+94	29.7 LT	STH 15 EB					1	1	1	772.75	769.14	2.82	JUNCTION MH
328+00	30.0 RT	STH 15 WB	1			1			1	769.16	766.00	3.37	
333+52	30.5 RT	STH 15 WB		1		2			1	767.34	758.75	8.88	CROSS CULVERT
338+35	29.3 RT	STH 15 WB	1			1			1	765.25	761.00	4.46	
346+00	30.0 RT	STH 15 WB		1		2			1	762.10	760.20	2.69	0.58' SUMP
347+15	30.0 RT	STH 15 WB		1		2			1	762.08	759.62	2.67	TO STA 346+00
352+00	30.0 RT	STH 15 WB	1			1			1	764.00	761.50	2.71	
359+00	30.0 RT	STH 15 EB	1			1			1	772.27	770.00	2.48	
366+00	29.7 RT	STH 15 WB	1			1			1	786.11	783.00	3.32	
374+30	31.3 RT	STH 15 WB	1			1			1	810.56	808.00	2.77	
384+00	22.2 RT	STH 15 WB			1	1			1	837.75	835.85	2.09	
390+00	37.9 RT	STH 15 WB	1			1			1	843.00	840.00	3.19	
394+45	193.6 RT	STH 15 EB		1		2			1	805.50	802.70	3.05	POND 394**
398+00	30.5 RT	STH 15 WB	1			1			1	838.50	835.50	3.21	
403+79	30.4 LT	STH 15 EB		1		2			1	834.46	829.00	5.67	
410+50	30.5 LT	STH 15 EB	1			1			1	839.70	837.30	2.61	
425+00	30.0 LT	STH 15 EB	1			1			1	834.00	832.00	2.21	
432+00	30.0 LT	STH 15 EB		1		2			1	827.40	820.00	7.61	
440+00	19.3 LT	STH 15 EB			1	1			1	831.93	830.05	2.09	
448+60	31.1 RT	STH 15 WB		1		2			1	835.79	834.20	1.82	
457+00	30.0 LT	STH 15 EB	1			1			1	843.60	838.00	5.81	
465+00	30.0 LT	STH 15 EB	1			1			1	864.04	861.20	3.05	
		TOTAL	**17**	**7**	**2**	**33**	**1**	**1**	**27**				

* PROVIDE SINGLE SLOPE INLET COVERS FOR 1G-MS
PROVIDE TWO SLOPE INLET COVERS FOR 2G-MS
** PROVIDE 8" DIA. ORIFICE INV. 805.50 SIDE OPPOSITE STRUCTURE DISCHARGE

ALL ITEMS CATEGORY 0010

FILE NAME: N:\pds\projects\Outagamie\1146-75-00\MISCELLANEOUS\Cost Estimates\QUANTITIES\11467571_dr.ppt PLOT DATE : 2-6-17 PLOT BY : JPS PLOT NAME : _____ PLOT SCALE : 1:1

3

3

REMOVING TYPE II SIGNS AND REMOVING SMALL SIGN SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
71	CTH M	J1-13	1	1	
72	"	W11-3	---	1	PART OF REMOVAL FOR SIGN #73
73	"	W57-51	1		MOUNTED BELOW SIGN #72
74	"	R2-1	1	1	
75	CTH MM	W1-4R	1	1	
76	"	MR1-99	1	1	
77	CTH M/CTH MM INTERSECTION	J13-2	1	1	
78	STH 15, E. OF GREENDALE RD	W8-70	---	1	PART OF REMOVAL FOR SIGN #79
79	"	W57-51	1		MOUNTED BELOW SIGN #78
PROJECT TOTALS			**7**	**7**	

ERECTION OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2220 SIGNS TYPE II REFLECTIVE SH S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	REMARKS
339	CTH M, N. OF STH 15	J1-1	24" X 39"	6.50		1		JCT CTH MM
340	"	J13-1	24" X 45"	7.50			1	CTH MM, SEE PLAN SHEET
341	CTH MM, E. OF CTH M	R1-1	30" X 30"	5.18		1		
341A	"	MR1-99	24" X 24"	4.00		1		
342	"	J13-1	24" X 45"	7.50			1	CTH M, SEE PLAN SHEET
342A	CTH M, N. OF STH 15	J13-1	24" X 45"	7.50			1	CTH MM, SEE PLAN SHEET
342B	"	J1-1	24" X 39"	6.50		1		JCT CTH MM
343	CTH MM, E. OF CTH M	J1-1	24" X 39"	6.50		1		JCT CTH M
344	NORTH CREST RD	W5-56	18" X 18"		2.25	1		
345	"	W5-56	18" X 18"		2.25	1		
346	"	W5-56	18" X 18"		2.25	1		
PROJECT TOTALS				**51.18**	**6.75**	**8**	**3**	

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.18

PART OF THE NE1/4-SE1/4 AND PART OF THE SE1/4-SE1/4 OF SECTION 28, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **2037962**
Date: **03-16-2015** Time: **08:28 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
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RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.18
AMENDMENT NO:

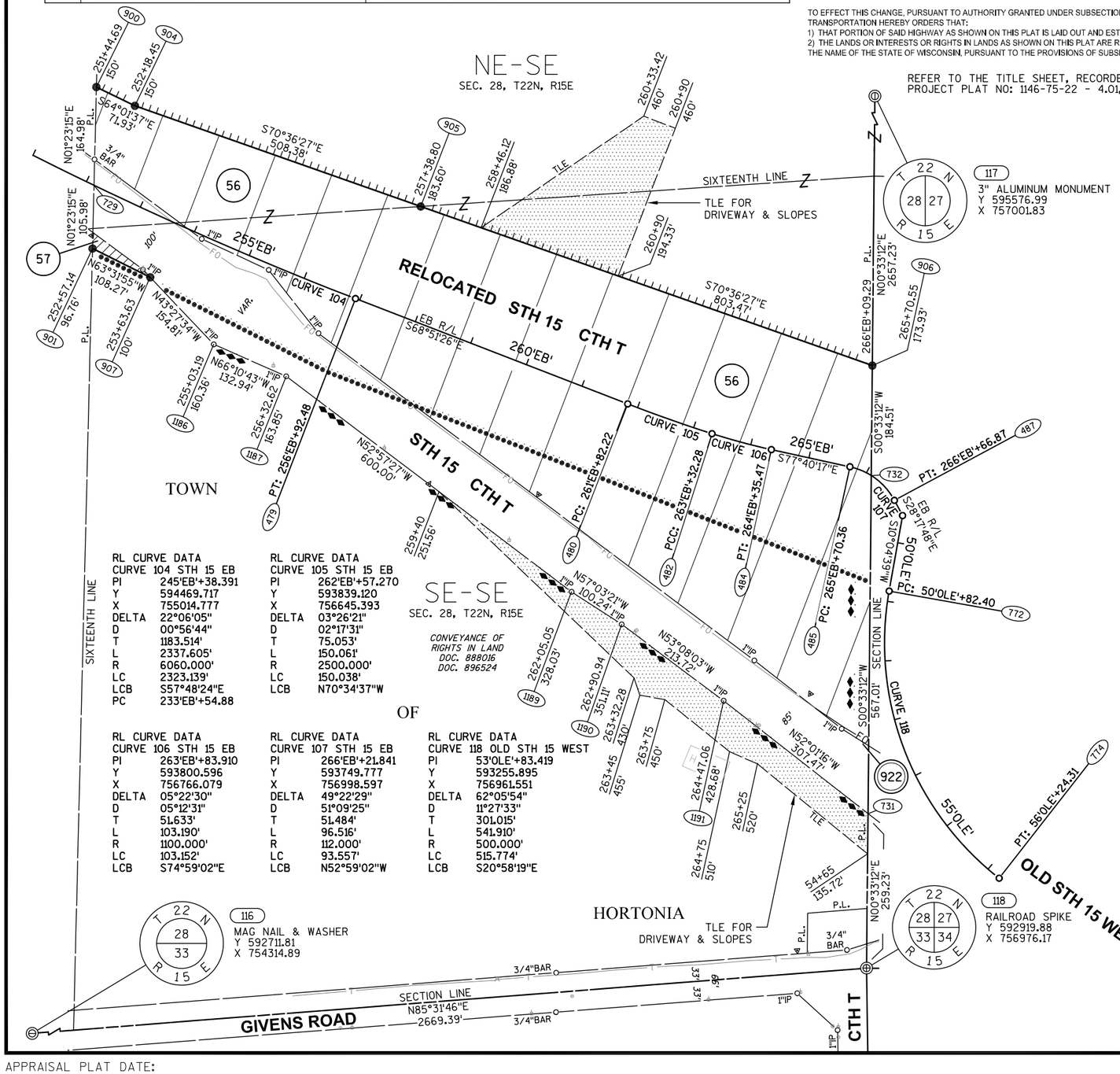
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
56	KEVIN SAMBS	FEE, ACCESS RIGHTS, TLE	11.302	0	11.302	0.921
57	ELIZABETH GAIGG	FEE, TLE	0.034	0	0.034	0.895

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS



RL CURVE DATA CURVE 104 STH 15 EB		RL CURVE DATA CURVE 105 STH 15 EB	
PI	245'EB'+38.391	PI	262'EB'+57.270
Y	594469.717	Y	593839.120
X	755014.777	X	756645.393
DELTA	22°06'05"	DELTA	03°26'21"
D	00°56'44"	D	02°17'31"
T	1183.514'	T	75.053'
L	2337.605'	L	150.061'
R	6060.000'	R	2500.000'
LC	2323.139'	LC	150.038'
LCB	S57°48'24"E	LCB	N70°34'37"W
PC	233'EB'+54.88		

RL CURVE DATA CURVE 106 STH 15 EB		RL CURVE DATA CURVE 107 STH 15 EB		RL CURVE DATA CURVE 118 OLD STH 15 WEST	
PI	263'EB'+83.910	PI	266'EB'+21.841	PI	53'0LE'+83.419
Y	593800.596	Y	593749.777	Y	593255.895
X	756766.079	X	756998.597	X	756961.551
DELTA	05°22'30"	DELTA	49°22'29"	DELTA	62°05'54"
D	05°12'31"	D	51°09'25"	D	11°27'33"
T	51.633'	T	51.484'	T	301.015'
L	103.190'	L	96.516'	L	541.910'
R	1100.000'	R	112.000'	R	500.000'
LC	103.152'	LC	93.557'	LC	515.774'
LCB	S74°59'02"E	LCB	N52°59'02"W	LCB	S20°58'19"E

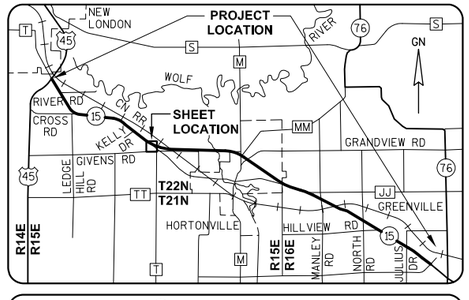
BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.12	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

GN

SCALE, FEET
0' 100' 200'



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.18, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI
RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 3/11/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

040418_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.19

PART OF THE SW1/4-SW1/4 OF SECTION 27, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

Document #: **2037963**
Date: **03-16-2015** Time: **08:28 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.19
AMENDMENT NO:

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

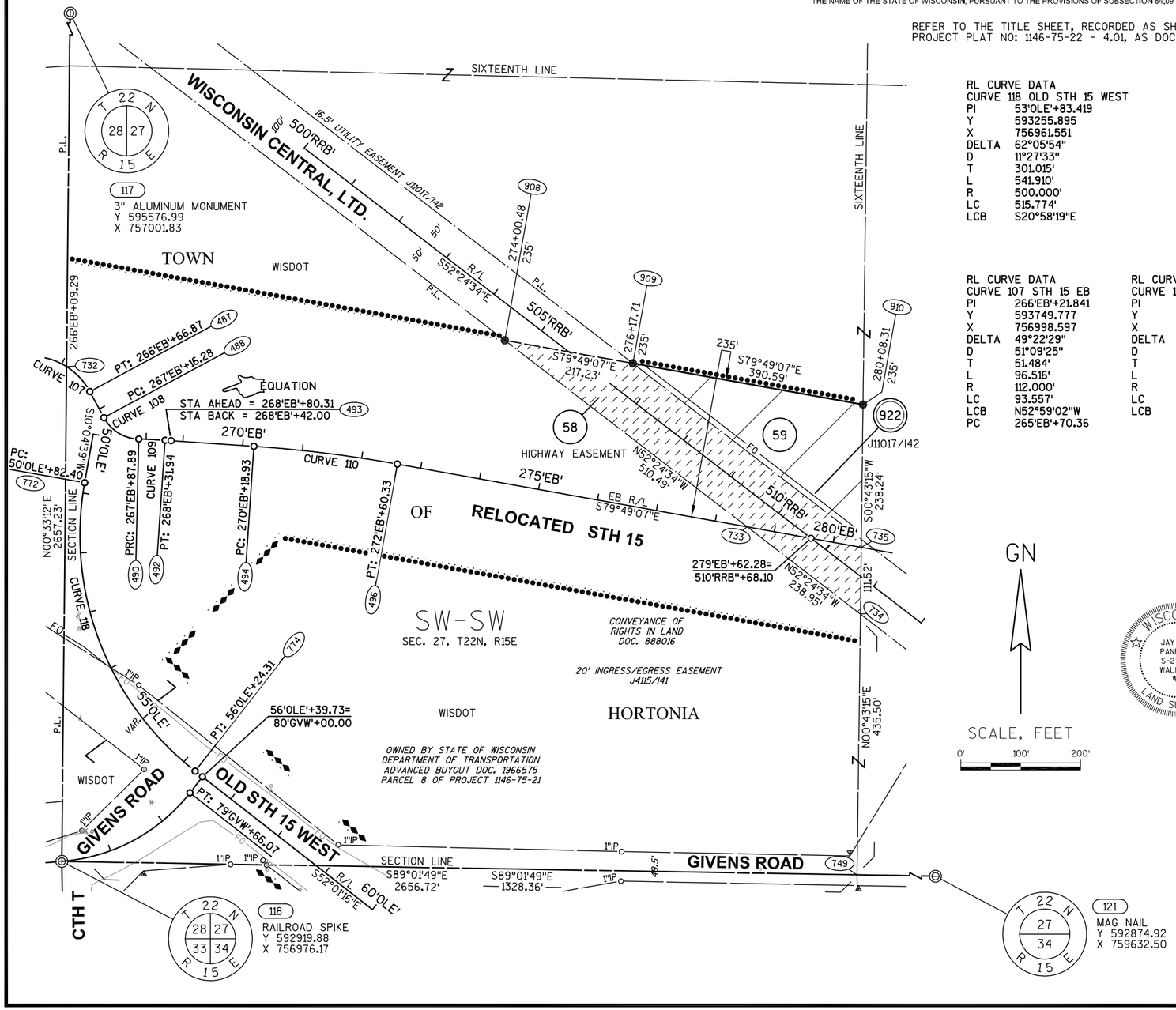
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	H.E. ACRES PERM.	TLE ACRES TEMP.
58	WISCONSIN CENTRAL, LTD.	HIGHWAY EASEMENT	0	0	0	1.413	0
59	KEVIN SAMBS & JANE SAMBS	FEE	0.994	0	0.994	0	0

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS



RL CURVE DATA
CURVE 118 OLD STH 15 WEST

PI	53'OLE'+83.419
Y	593255.895
X	756961.551
DELTA	62°05'54"
D	11°27'33"
T	301.015'
L	541.910'
R	500.000'
LC	515.774'
LCB	S20°58'19"E

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15 AND CTH T	TPP NO: 6430-06-00 - 4.11, 4.12	2011
GIVENS ROAD	TPP NO: 6430-06-00 - 4.11	2011
WISCONSIN CENTRAL, LTD. RAILROAD	V39/P328	1876

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

RL CURVE DATA
CURVE 107 STH 15 EB

PI	266'EB'+21.841
Y	593749.777
X	756998.597
DELTA	49°22'29"
D	51°09'25"
T	51.484'
L	96.516'
R	112.000'
LC	93.557'
LCB	N52°59'02"W
PC	265'EB'+70.36

RL CURVE DATA
CURVE 108 STH 15 EB

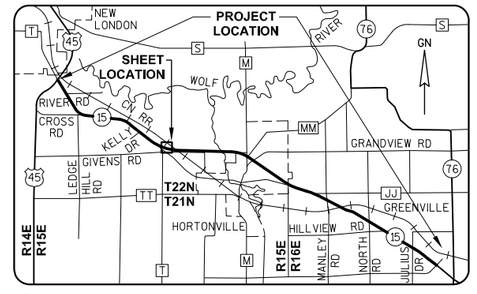
PI	267'EB'+55.804
Y	593626.141
X	757065.159
DELTA	60°20'00"
D	84°15'31"
T	39.524'
L	71.605'
R	68.000'
LC	68.342'
LCB	S58°27'48"E

RL CURVE DATA
CURVE 109 STH 15 EB

PI	268'EB'+09.918
Y	593624.669
X	757126.699
DELTA	02°31'28"
D	05°43'46"
T	22.033'
L	44.059'
R	1000.000'
LC	44.056'
LCB	N87°22'04"W

RL CURVE DATA
CURVE 110 STH 15 EB

PI	271'EB'+39.750
Y	593604.869
X	757417.556
DELTA	06°17'13"
D	02°36'16"
T	120.822'
L	241.401'
R	2200.000'
LC	241.280'
LCB	N82°57'43"W



WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.19, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 3/11/2015 CURT VAN EREM REAL ESTATE SUPERVISOR

040419_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.20
AMENDMENT NO: 1

AMENDS PARCEL 61 AND PARCEL 62 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.20, RECORDED AS DOCUMENT #2037964.
PART OF THE NW1/4-NW1/4 OF SECTION 34, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: **2064107**
Date: **01-21-2016** Time: **09:06 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
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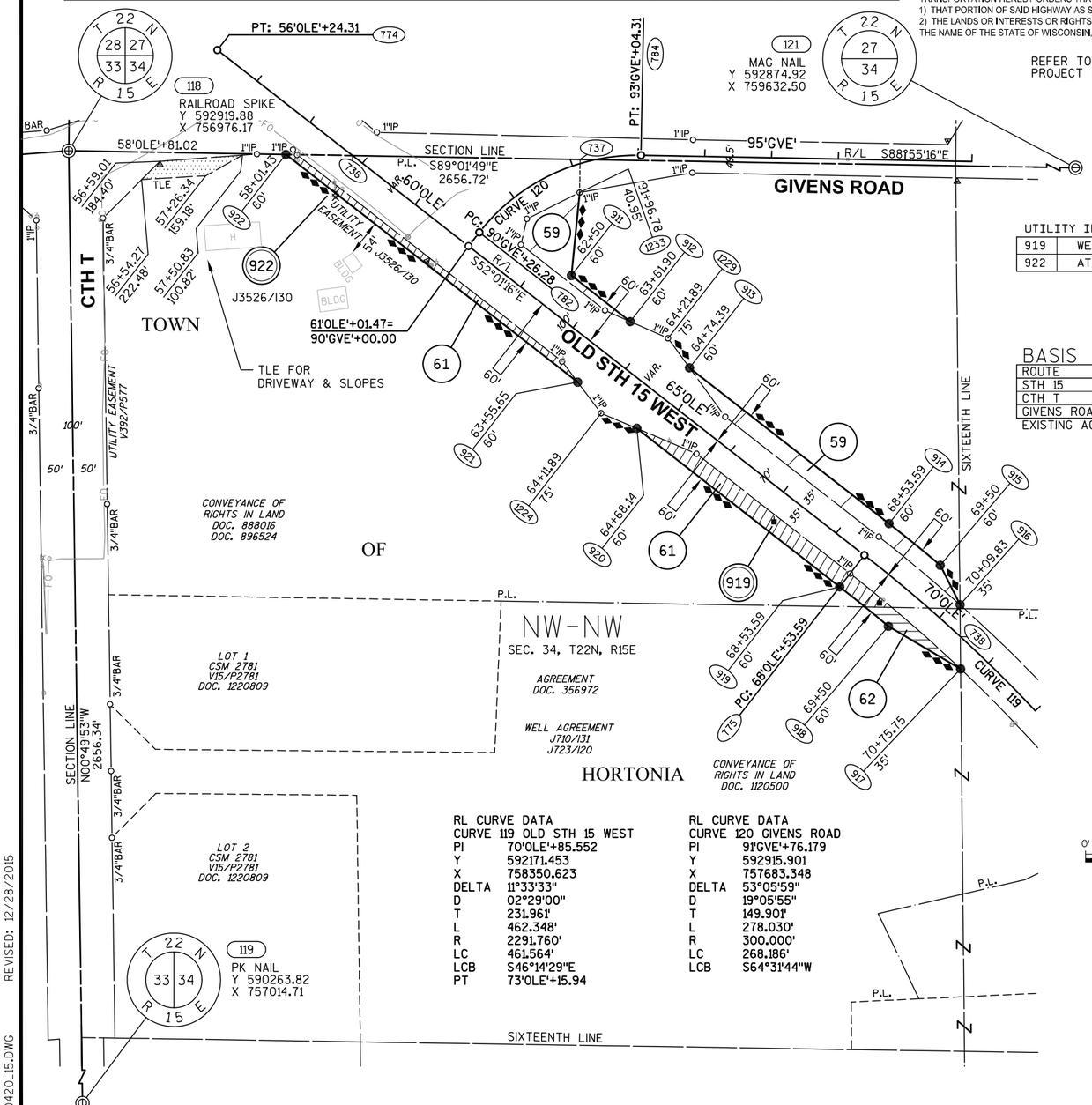
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.20
AMENDMENT NO: 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
59	KEVIN SAMBS & JANE SAMBS	FEE	0.443	0	0.443	0
61	JUDITH M. RIESE, CHARLES M. SAMBS, DANIEL W. SAMBS, GREGORY J. SAMBS, JANICE M. FLENZ, MARY J. RIHA, BARBARA H. REARICK, KEVIN J. SAMBS, AND JANICE M. FLENZ AS TRUSTEE FOR THE 1994 IRREVOCABLE TRUST FOR THE BENEFIT OF JOANN M. SAMBS DATED JULY 14, 1994	FEE, TLE	0.353	0	0.353	0.066
62	THOMAS J. BOETTCHER	FEE	0.054	0	0.054	0



RL CURVE DATA
CURVE 119 OLD STH 15 WEST

PI	70'0LE'+85.552
Y	592171.453
X	758350.623
DELTA	11°33'33"
D	02°29'00"
T	231.961'
L	462.348'
R	2291.760'
LC	461.564'
LCB	S46°14'29"E
PT	73'0LE'+15.94

RL CURVE DATA
CURVE 120 GIVENS ROAD

PI	91'GVE'+76.179
Y	592915.901
X	757683.348
DELTA	53°05'59"
D	19°05'55"
T	149.901'
L	278.030'
R	300.000'
LC	268.186'
LCB	S64°31'44"W

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15	TPP NO: 6430-06-00 - 4.11	2011
CTH T	TPP NO: 6430-06-00 - 4.11	2011
GIVENS ROAD	TPP NO: 6430-06-00 - 4.11	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
118	922	S89°01'49"E	325.39'
922	736	S89°01'49"E	99.68'
736	737	S89°01'49"E	341.00'
737	1233	S00°58'11"W	49.54'
1233	911	S05°39'59"W	125.07'
911	912	S52°01'16"E	111.90'
912	1229	S66°03'26"E	61.84'
1229	913	S36°04'31"E	54.60'
913	914	S52°01'16"E	379.20'
*914	915	S50°48'57"E	98.93'
915	916	S26°35'59"E	65.99'
916	738	S00°34'29"E	47.75'
738	917	S00°34'29"E	48.40'
917	918	N59°30'41"W	125.64'
*918	919	N50°48'57"W	93.88'
919	920	N52°01'16"W	385.45'
920	1224	N66°57'08"W	58.22'
1224	921	N37°05'21"W	58.21'
921	922	N52°01'16"W	554.22'

*SEE CURVE TABLE

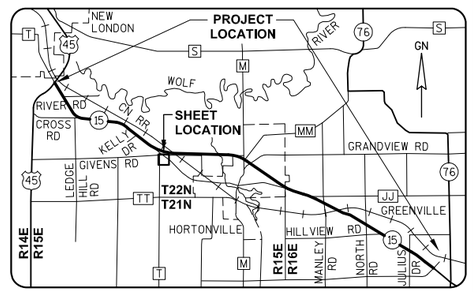
CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
914	915	2351.76'	98.93'	S50°48'57"E	98.93'
918	919	2231.76'	93.89'	N50°48'57"W	93.88'

GN

SCALE, FEET
0' 100' 200'

WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.20, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 12/28/2015 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 1/19/2016 CURT VAN EREM
REAL ESTATE SUPERVISOR

040420_15.DWG REVISED: 12/28/2015

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.20

PART OF THE NW1/4-NW1/4 OF SECTION 34, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

Document #: **2037964**
Date: **03-16-2015** Time: **08:28 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.20
AMENDMENT NO:

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

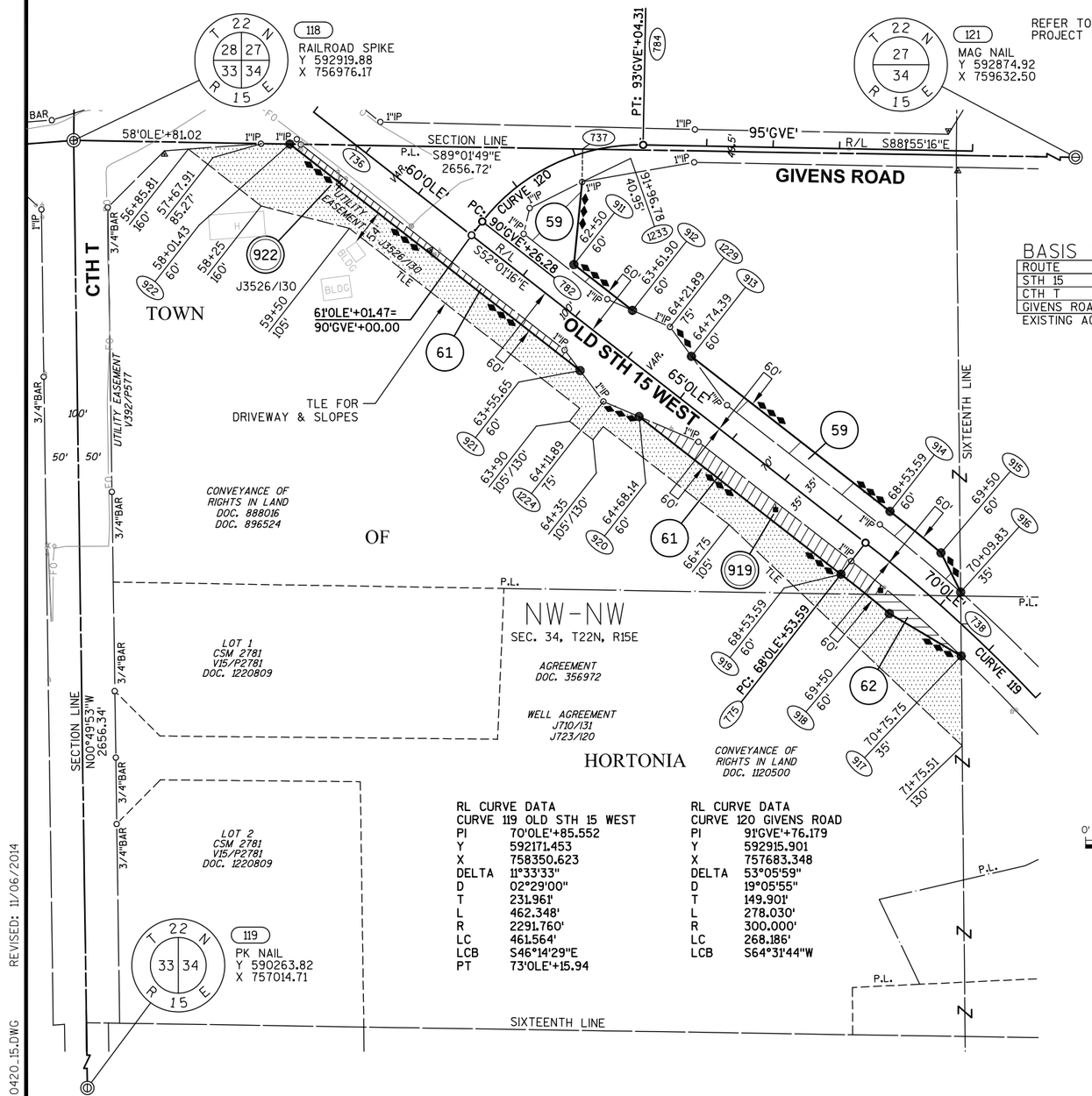
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
59	KEVIN SAMBS & JANE SAMBS	FEE	0.443	0	0.443	0
61	JUDITH M. RIESE, CHARLES M. SAMBS, DANIEL W. SAMBS, GREGORY J. SAMBS, JANICE M. FLENZ, MARY J. RIHA, BARBARA H. REARICK, KEVIN J. SAMBS, AND JANICE M. FLENZ AS TRUSTEE FOR THE 1994 IRREVOCABLE TRUST FOR THE BENEFIT OF JOANN M. SAMBS DATED JULY 14, 1994	FEE, TLE	0.353	0	0.353	1.387
62	THOMAS J. BOETTCHER	FEE, TLE	0.054	0	0.054	0.463

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS



RL CURVE DATA

CURVE 119 OLD STH 15 WEST	
PI	70'OLE'+85.552
Y	592171.453
X	758350.623
DELTA	11°33'33"
D	02°29'00"
T	231.961'
L	462.348'
R	2291.760'
LC	461.564'
LCB	S46°14'29"E
PT	73'OLE'+15.94

CURVE 120 GIVENS ROAD	
PI	91'GVE'+76.179
Y	592915.901
X	757683.348
DELTA	53°05'59"
D	19°05'55"
T	149.901'
L	278.030'
R	300.000'
LC	268.186'
LCB	S64°31'44"W

GN

SCALE, FEET
0' 100' 200'

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15	TPP NO: 6430-06-00 - 4.11	2011
CTH T	TPP NO: 6430-06-00 - 4.11	2011
GIVENS ROAD	TPP NO: 6430-06-00 - 4.11	2011

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

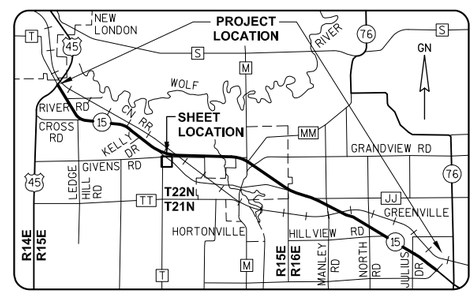
COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
118	922	S89°01'49"E	325.39'
922	736	S89°01'49"E	99.68'
736	737	S89°01'49"E	341.00'
737	1233	S00°58'11"W	49.54'
1233	911	S05°39'59"W	125.07'
911	912	S52°01'16"E	111.90'
912	1229	S66°03'26"E	61.84'
1229	913	S36°04'31"E	54.60'
913	914	S52°01'16"E	379.20'
*914	915	S50°48'57"E	98.93'
915	916	S26°35'59"E	65.99'
916	738	S00°34'29"E	47.75'
738	917	S00°34'29"E	48.40'
917	918	N59°30'41"W	125.64'
*918	919	N50°48'57"W	93.88'
919	920	N52°01'16"W	385.45'
920	1224	N66°57'08"W	58.22'
1224	921	N37°05'21"W	58.21'
921	922	N52°01'16"W	554.22'

*SEE CURVE TABLE

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
914	915	2351.76'	98.93'	S50°48'57"E	98.93'
918	919	2231.76'	93.89'	N50°48'57"W	93.88'



WISCONSIN
JAY W. PANETTI S-2747 WAUPUN, WI
LAND SURVEYOR

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.20, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 3/11/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

040420_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.21

PART LOT 1 OF CSM 2313, PART OF THE NE1/4-NW1/4 AND PART OF THE SE1/4-NW1/4 OF SECTION 34, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: **2037965**
Date: **03-16-2015** Time: **08:29 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.21
AMENDMENT NO:

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

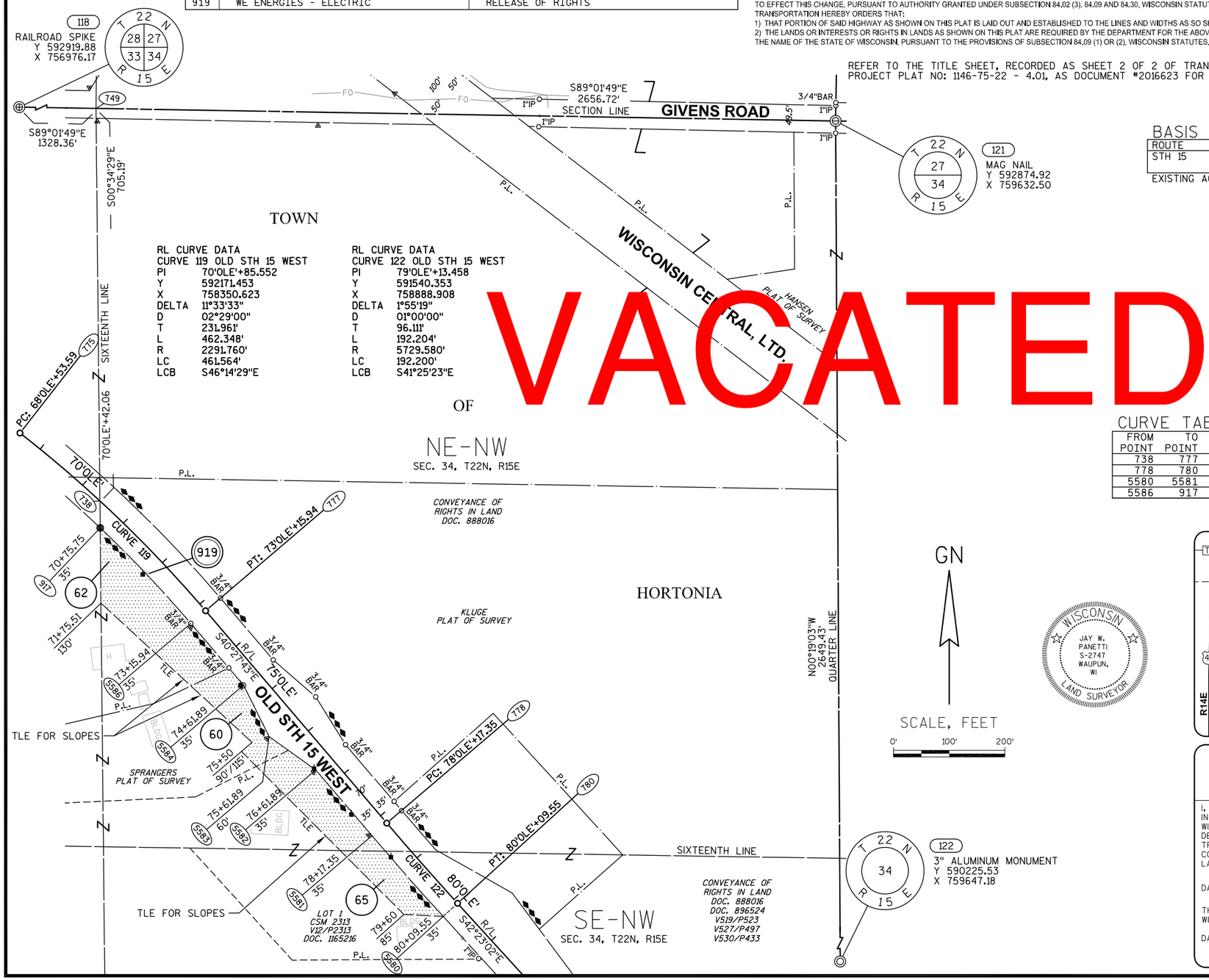
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W NEW	ACRES REQUIRED EXISTING	TOTAL	TLE ACRES TEMP.
60	JOHN WILLIAM SHARKEY & MARY K. SHARKEY	TLE	0	0	0	0.238
62	THOMAS J. BOETTCHER & HOLLY J. BOETTCHER	TLE	0	0	0	0.557
65	JAMES R. BOLSSEN & LINDA M. BOLSSEN	TLE	0	0	0	0.542

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS



BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15	TPP NO: 6430-06-00 - 4.11,	2011
	CERTIFIED SURVEY MAP 2313	1995

EXISTING ACCESS CONTROL: PROJECT 1146-1-22/F 07(19)

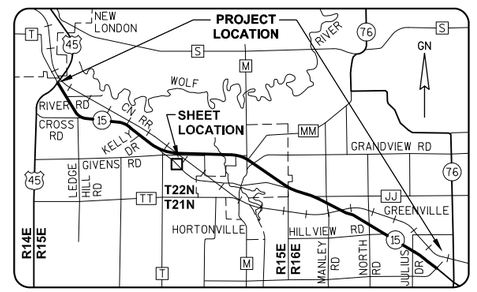
COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
118	749	S89°01'49"E	1328.36'
749	738	S00°34'29"E	705.19'
*738	777	S43°53'08"E	273.71'
777	778	S40°27'43"E	501.41'
*778	780	S41°25'23"E	192.20'
780	5580	S47°36'58"W	35.00'
*5580	5581	N41°25'23"W	193.37'
5581	5582	N40°27'43"W	155.46'
5582	5583	N54°29'54"W	103.07'
5583	5584	N26°25'37"W	103.08'
5584	5586	N40°27'40"W	145.95'
*5586	917	N43°27'54"W	236.41'
917	738	N00°34'29"W	48.40'

*SEE CURVE TABLE

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
738	777	2291.76'	273.88'	S43°53'08"E	273.71'
778	780	5729.58'	192.20'	S41°25'23"E	192.20'
5580	5581	5764.58'	193.38'	N41°25'23"W	193.37'
5586	917	2256.76'	236.52'	N43°27'54"W	236.41'



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.21, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 3/11/2015 CURT VAN EREM REAL ESTATE SUPERVISOR

040421.15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	H.E. ACRES PERM.	PLE ACRES PERM.	TLE ACRES TEMP.
58	WISCONSIN CENTRAL, LTD.	HIGHWAY EASEMENT	0	0	0	0.756	0	0
59	KEVIN SAMBS & JANE SAMBS	FEE	12.190	0	12.190	0	0	0
261	KEVIN SAMBS & JANE SAMBS	PLE	0	0	0	0	0.717	0

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.22 AMENDMENT NO: 2

ADDS PARCEL 261 TO TRANSPORTATION PROJECT PLAT 1146-75-22-4.22 , RECORDED AS DOCUMENT #2037966.
PART OF THE SE1/4-SW1/4 OF SECTION 27, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

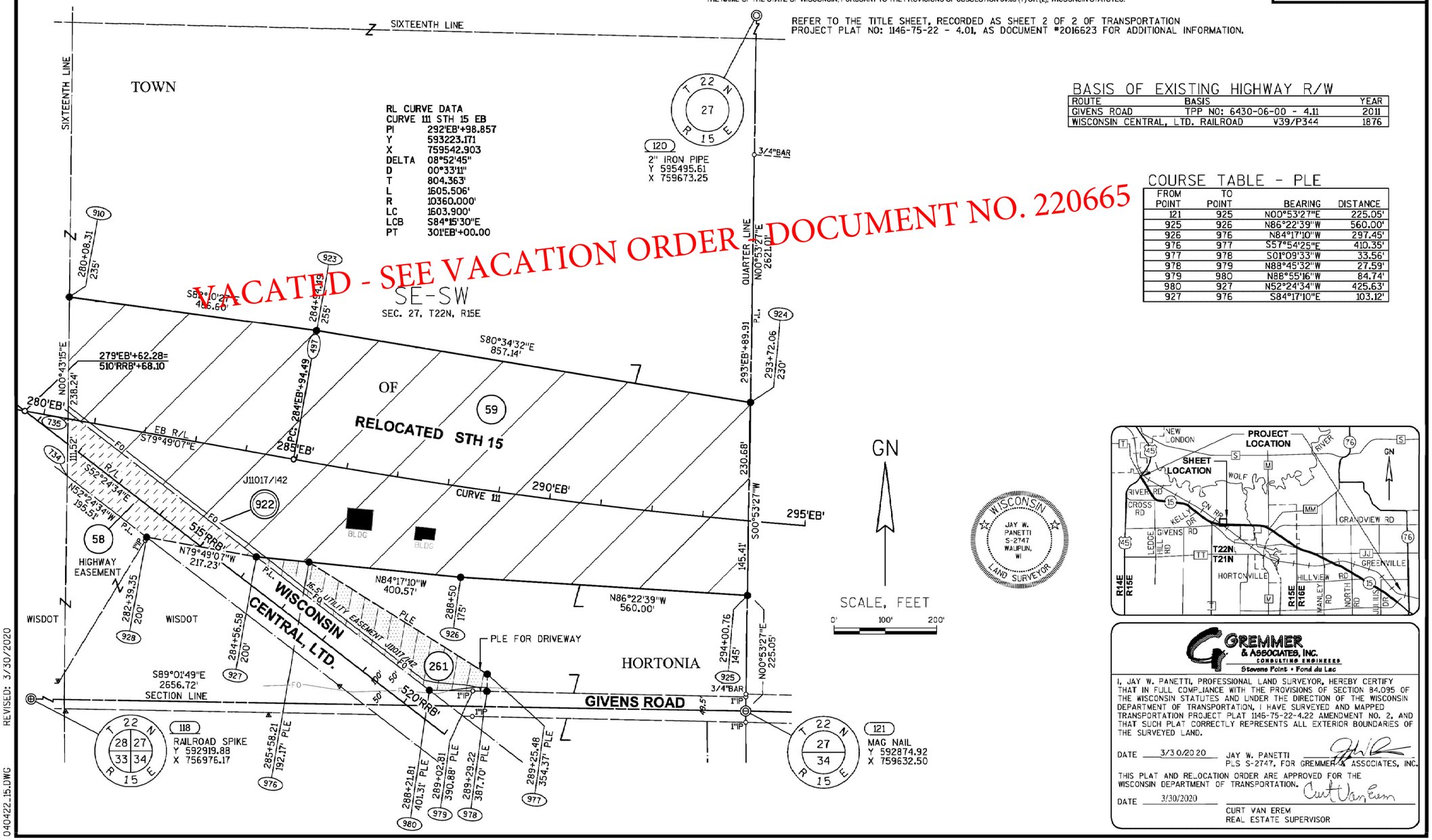
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: 2187877
Date: 03-31-2020 Time: 1:47 PM
Pages: 1 Fee: $25.00
County: OUTAGAMIE COUNTY State: WI

SARAH R VAN CAMP, REGISTER OF DEEDS
This document has been electronically recorded
Return to:
WisDOT - NE Region - Green Bay - PO 39500-000001

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.22
AMENDMENT NO: 2

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.



BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
GIVENS ROAD	TPP NO: 6430-06-00 - 4.11	2011
WISCONSIN CENTRAL, LTD. RAILROAD	V39/P344	1876

COURSE TABLE - PLE

FROM POINT	TO POINT	BEARING	DISTANCE
121	925	NO0°53'27"E	225.05'
925	926	N86°22'39"W	560.00'
926	976	N84°17'10"W	297.45'
976	977	S57°54'25"E	410.35'
977	978	S01°09'33"W	33.56'
978	979	N88°45'32"W	27.59'
979	980	N88°55'16"W	84.74'
980	927	N52°24'34"W	425.63'
927	976	S84°17'10"E	103.12'

VACATED - SEE VACATION ORDER DOCUMENT NO. 220665

WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.22 AMENDMENT NO. 2, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 3/30/2020 JAY W. PANETTI P.L.S S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RE-LOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 3/30/2020 CURT VAN EREM REAL ESTATE SUPERVISOR

040422.15.DWG REVISED: 3/30/2020

APPRAISAL PLAT DATE: 3/30/2020

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	H.E. ACRES PERM.	TLE ACRES TEMP.
58	WISCONSIN CENTRAL, LTD.	HIGHWAY EASEMENT	0	0	0	0.756	0
59	KEVIN SAMBS & JANE SAMBS	FEE	12.190	0	12.190	0	0

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.22 AMENDMENT NO: 1

ADDS STRUCTURES TO BE REMOVED FROM PARCEL 59 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.22, RECORDED AS DOCUMENT #2037966.
PART OF THE SE1/4-SW1/4 OF SECTION 27, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

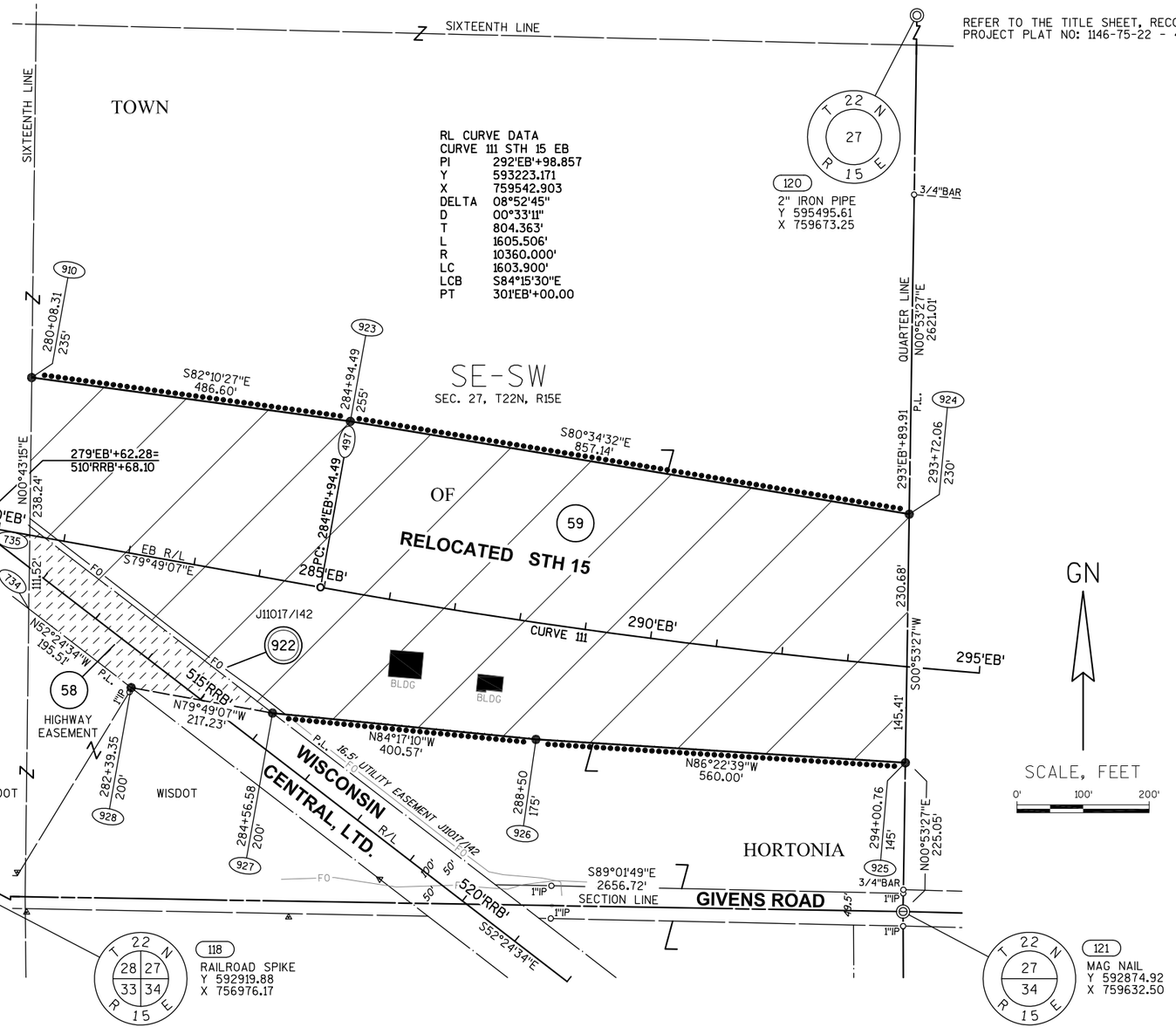
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: **2065979**
Date: **02-18-2016** Time: **02:44 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WIDotNeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.22
AMENDMENT NO: 1

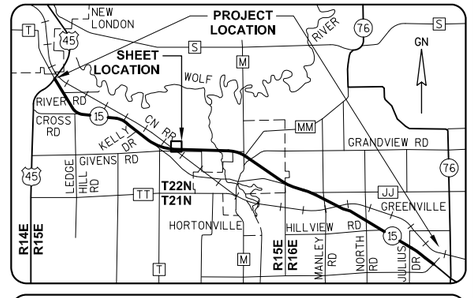


REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
GIVENS ROAD	TPP NO: 6430-06-00 - 4.11	2011
WISCONSIN CENTRAL, LTD. RAILROAD	V39/P344	1876

WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.22, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 2/3/2016 JAY W. PANETTI PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 2/18/2016 CURT VAN EREM
REAL ESTATE SUPERVISOR

040422_15.DWG REVISED: 2/3/2016

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.22

PART OF THE SE1/4-SW1/4 OF SECTION 27, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

Document #: **2037966**
Date: **03-16-2015** Time: **08:29 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.22
AMENDMENT NO:

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

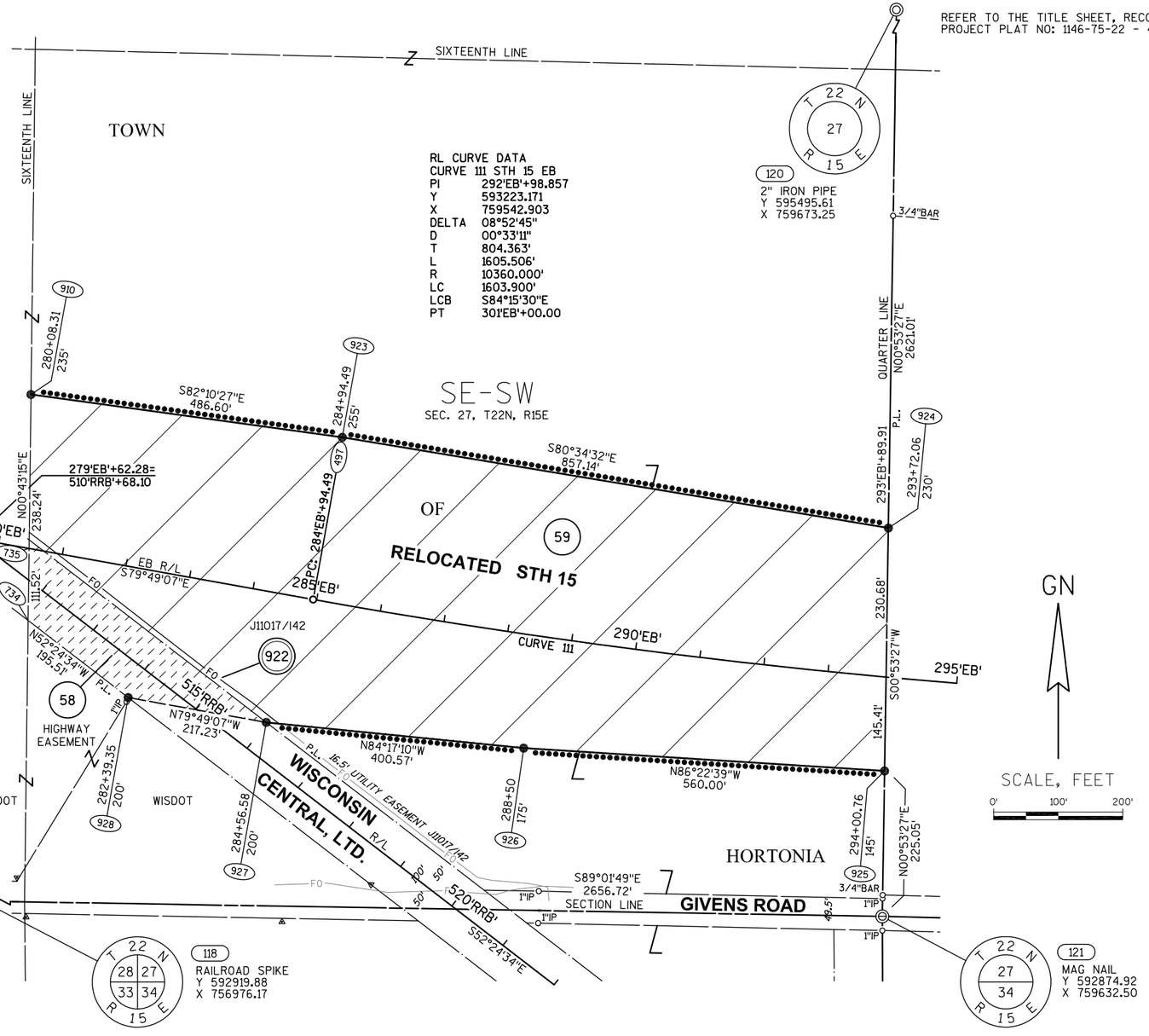
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	H.E. ACRES PERM.	TLE ACRES TEMP.
58	WISCONSIN CENTRAL, LTD.	HIGHWAY EASEMENT	0	0	0	0.756	0
59	KEVIN SAMBS & JANE SAMBS	FEE	12.190	0	12.190	0	0

UTILITY INTERESTS REQUIRED:

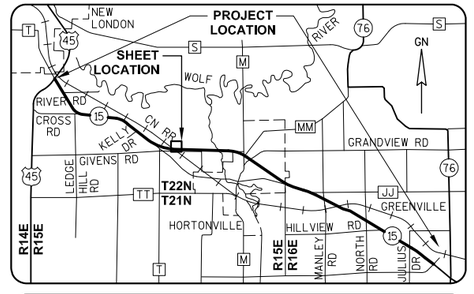
922	AT&T WISCONSIN	RELEASE OF RIGHTS

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
GIVENS ROAD	TPP NO: 6430-06-00 - 4.11	2011
WISCONSIN CENTRAL, LTD. RAILROAD	V39/P344	1876



WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.22, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 3/11/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

REVISED: 11/06/2014

040422_15.DWG

APPRAISAL PLAT DATE:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
63	IRVING J. PARTIKA & GENEVRA PARTIKA	FEE, TLE	9.717	0	9.717	0.326

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.23 AMENDMENT NO: 2

AMENDS PARCEL 63 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.23, AMENDMENT NO. 1, RECORDED AS DOCUMENT #2035590.
PART OF LOT 1 OF CSM 3642 BEING PART OF THE SW1/4-SE1/4 OF SECTION 27, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

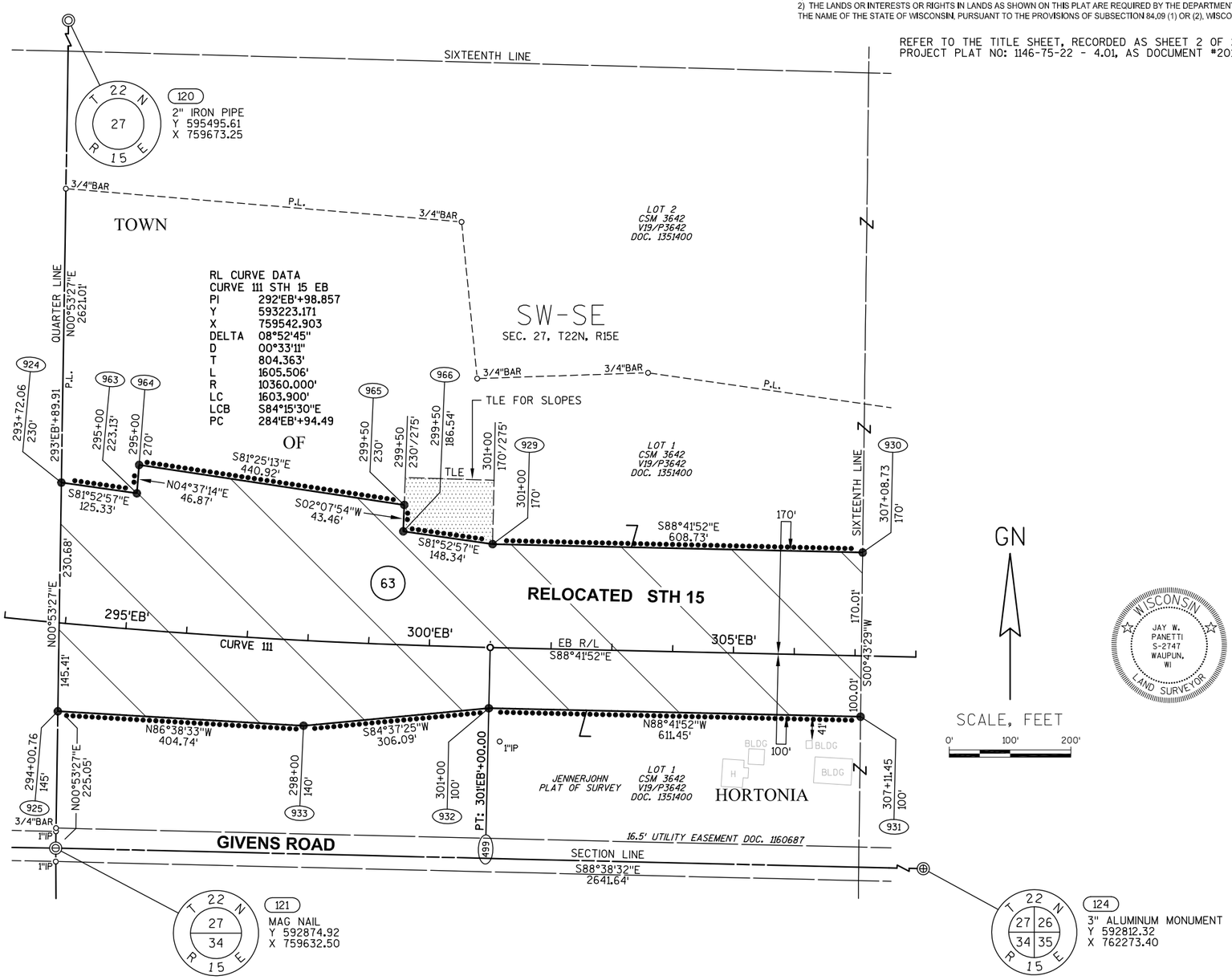
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1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
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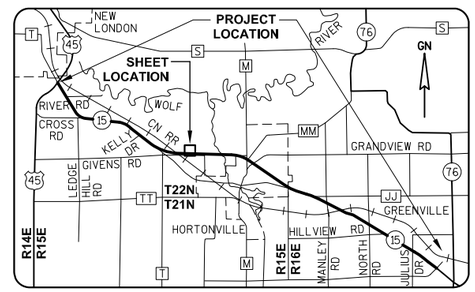
REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **2064144**
Date: **01-21-2016** Time: **10:30 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotNeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.23
AMENDMENT NO: 2





GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.23, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 1/12/2016 JAY W. PANETTI
PLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 1/19/2016 CURT VAN EREM
REAL ESTATE SUPERVISOR

040423_15.DWG REVISED: 1/12/2016

APPRAISAL PLAT DATE:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
63	IRVING J. PARTIKA & GENEVRA PARTIKA	FEE, TLE	9.261	0	9.261	0.782

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.23 AMENDMENT NO: 1

AMENDS PARCEL 63 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.23, RECORDED AS DOCUMENT #2017852. PART OF LOT 1 OF CSM 3642 BEING PART OF THE SW1/4-SE1/4 OF SECTION 27, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

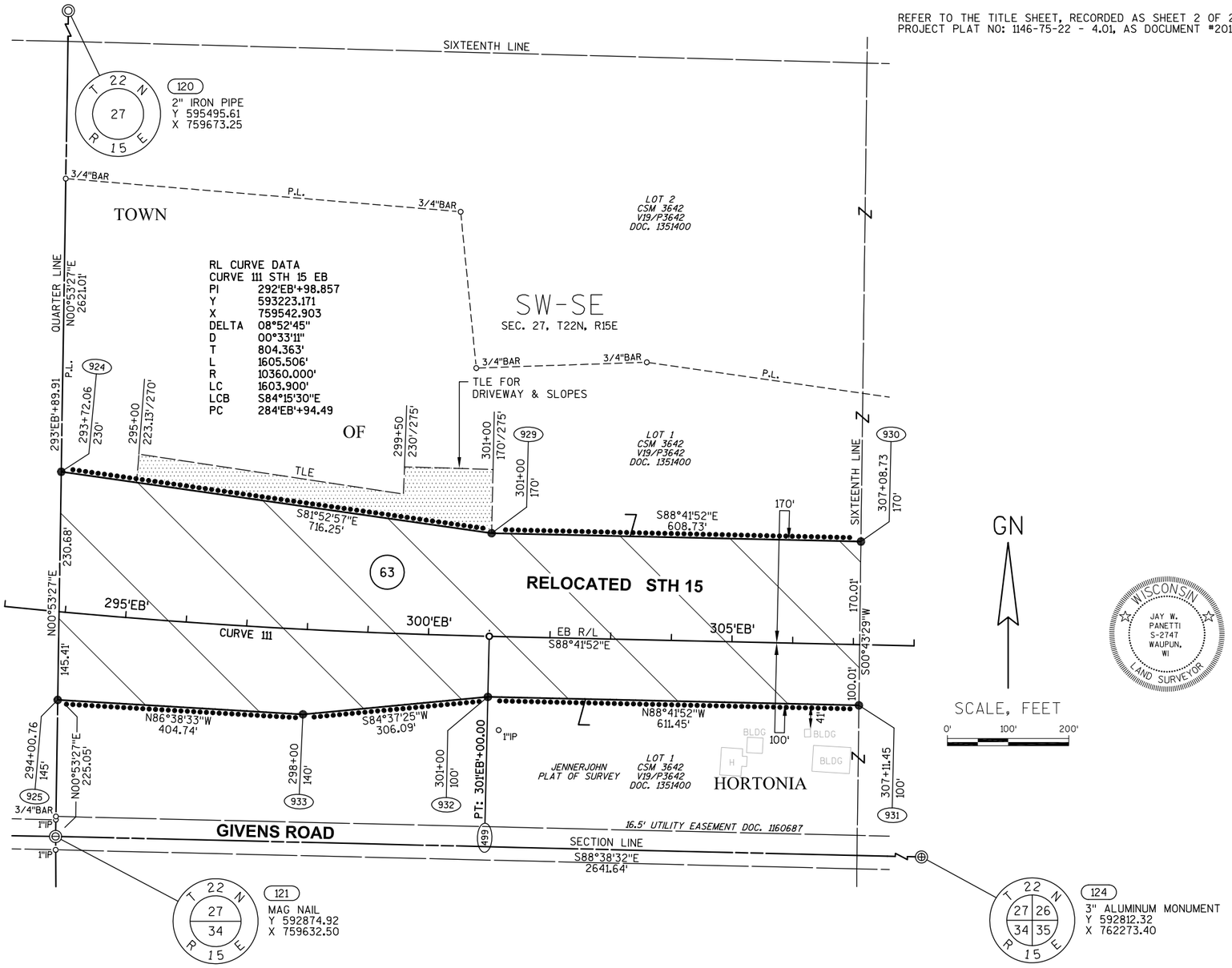
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
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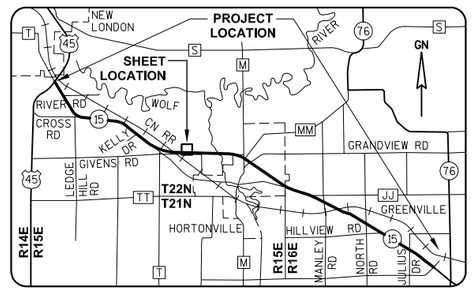
Document #: **2035590**
Date: **02-06-2015** Time: **09:15 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.23
AMENDMENT NO: 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.





GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.23, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 2/4/2015 CURT VAN EREM REAL ESTATE SUPERVISOR

040423_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.23

PART OF LOT 1 OF CSM 3642 BEING PART OF THE SW1/4-SE1/4 OF SECTION 27, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

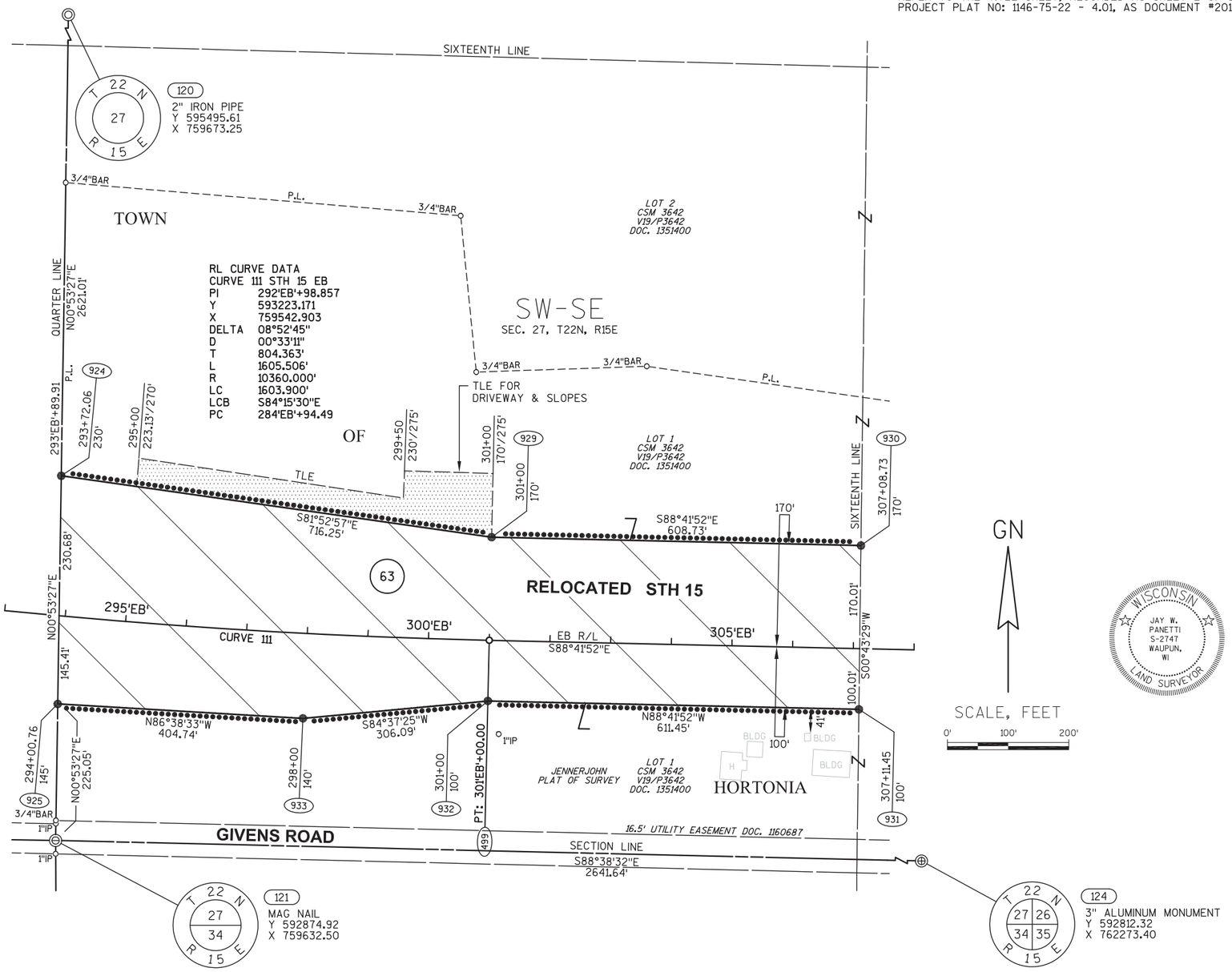
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REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

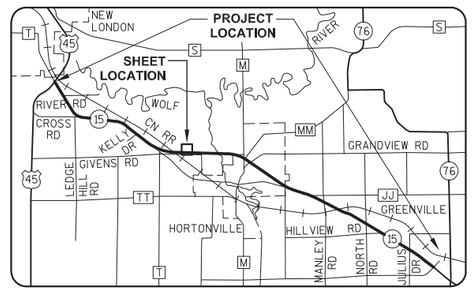
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
63	IRVING J. PARTIKA & GENEVRA PARTIKA	FEE, ACCESS RIGHTS, TLE	9.261	0	9.261	0.782



GN

SCALE, FEET
0' 100' 200'

WISCONSIN
JAY W. PANETTI S-2747 WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.23, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 5/21/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 6/18/2014 CURT VAN EREM REAL ESTATE SUPERVISOR

Document #: **2017852**
Date: **06-19-2014** Time: **09:45 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.23
AMENDMENT NO:

040423_15.DWG REVISED: 05/21/2014

APPRAISAL PLAT DATE:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
63	IRVING J. PARTIKA & GENEVRA PARTIKA	FEE	8.240	0	8.240	0

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.24 AMENDMENT NO: 1

AMENDS PARCEL 63 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.24, RECORDED AS DOCUMENT #2017853. PART OF LOT 1 OF CSM 3642 BEING PART OF THE SE1/4-SE1/4 OF SECTION 27, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

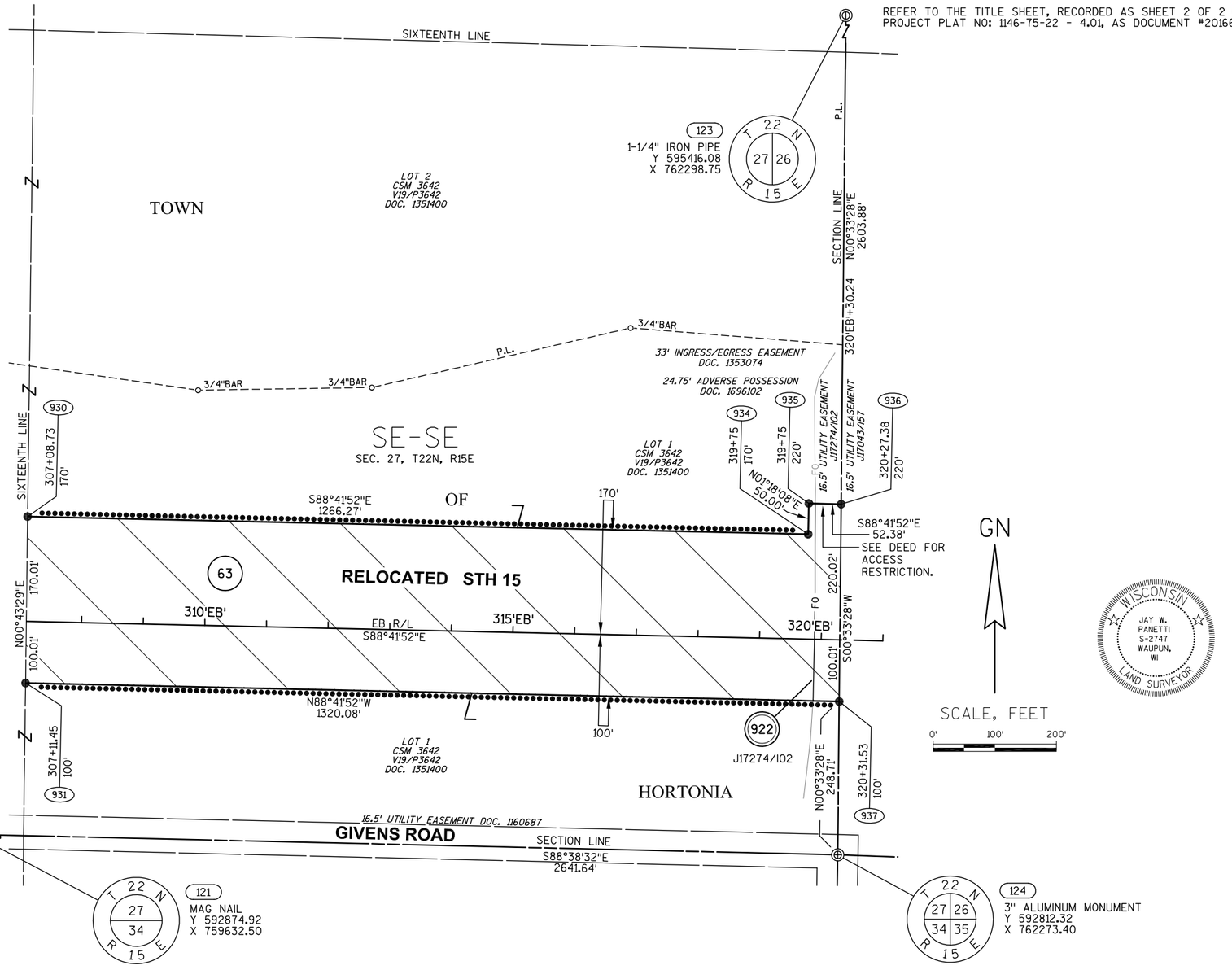
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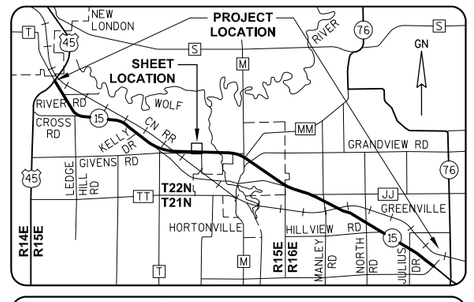
Document #: **2035591**
Date: **02-06-2015** Time: **09:15 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.24
AMENDMENT NO: 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.





GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.24, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 2/4/2015 CURT VAN EREM REAL ESTATE SUPERVISOR

040424_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.24

PART OF LOT 1 OF CSM 3642 BEING PART OF THE SE1/4-SE1/4 OF SECTION 27, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

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1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **2017853**
Date: **06-19-2014** Time: **09:46 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronicaly recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.24
AMENDMENT NO:

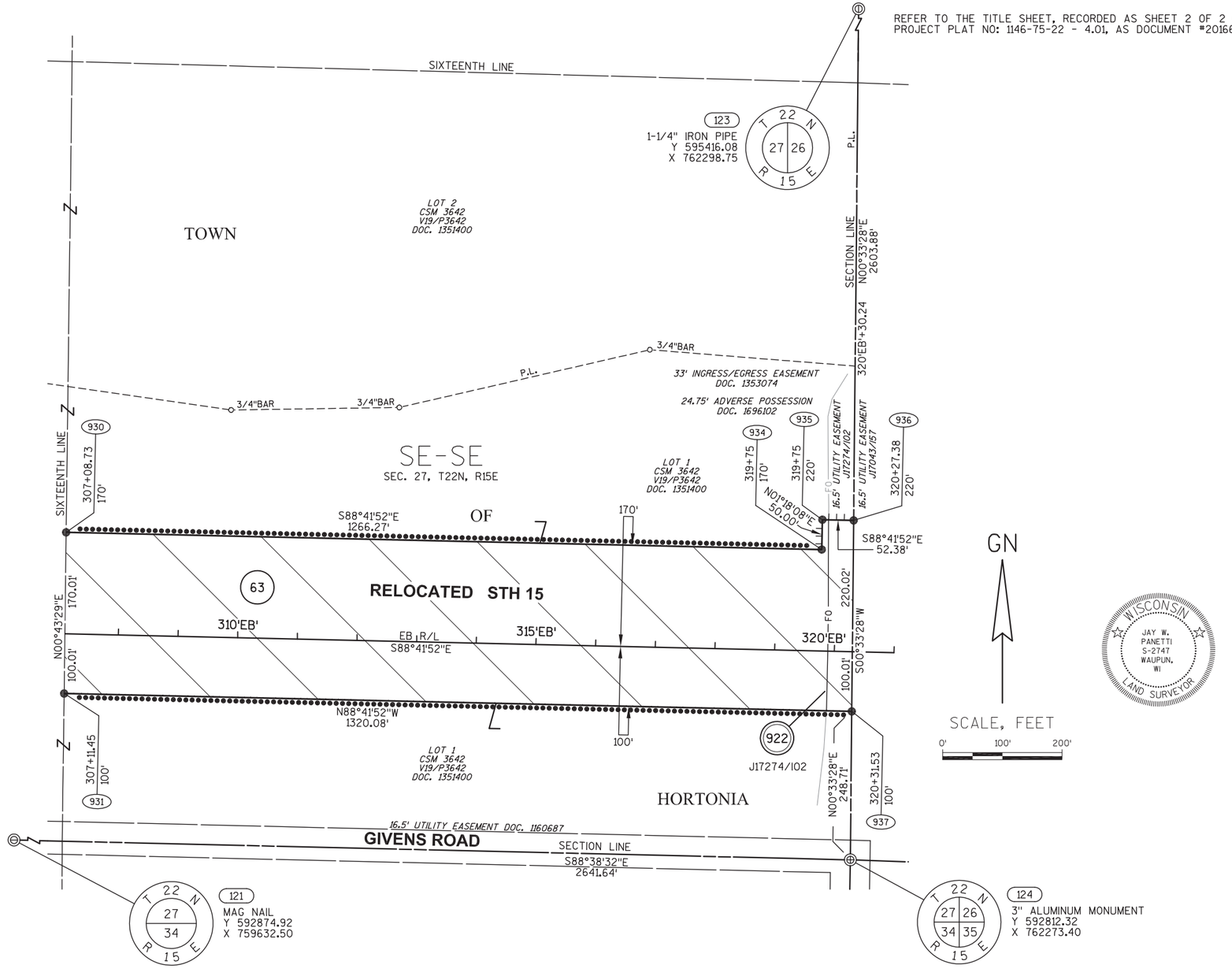
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

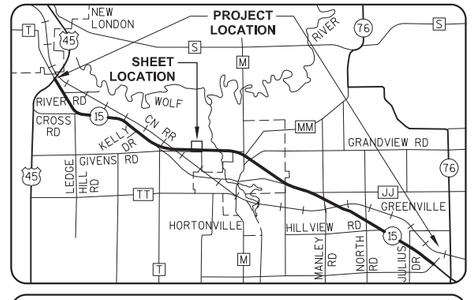
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
63	IRVING J. PARTIKA & GENEVRA PARTIKA	FEE, ACCESS RIGHTS	8.240	0	8.240	0

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS



WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.24, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 5/21/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 6/18/2014 CURT VAN EREM REAL ESTATE SUPERVISOR

040424_15.DWG REVISED: 05/21/2014

APPRAISAL PLAT DATE:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW	ACRES REQUIRED EXISTING	TOTAL	TLE ACRES TEMP.
64	JAMES I. SYKES & MARIANN D. SYKES	FEE	8.212	0	8.212	0

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.25 AMENDMENT NO: 1

AMENDS PARCEL 64 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.25, RECORDED AS DOCUMENT #2017854.
PART OF THE SW1/4-SW1/4 OF SECTION 26, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

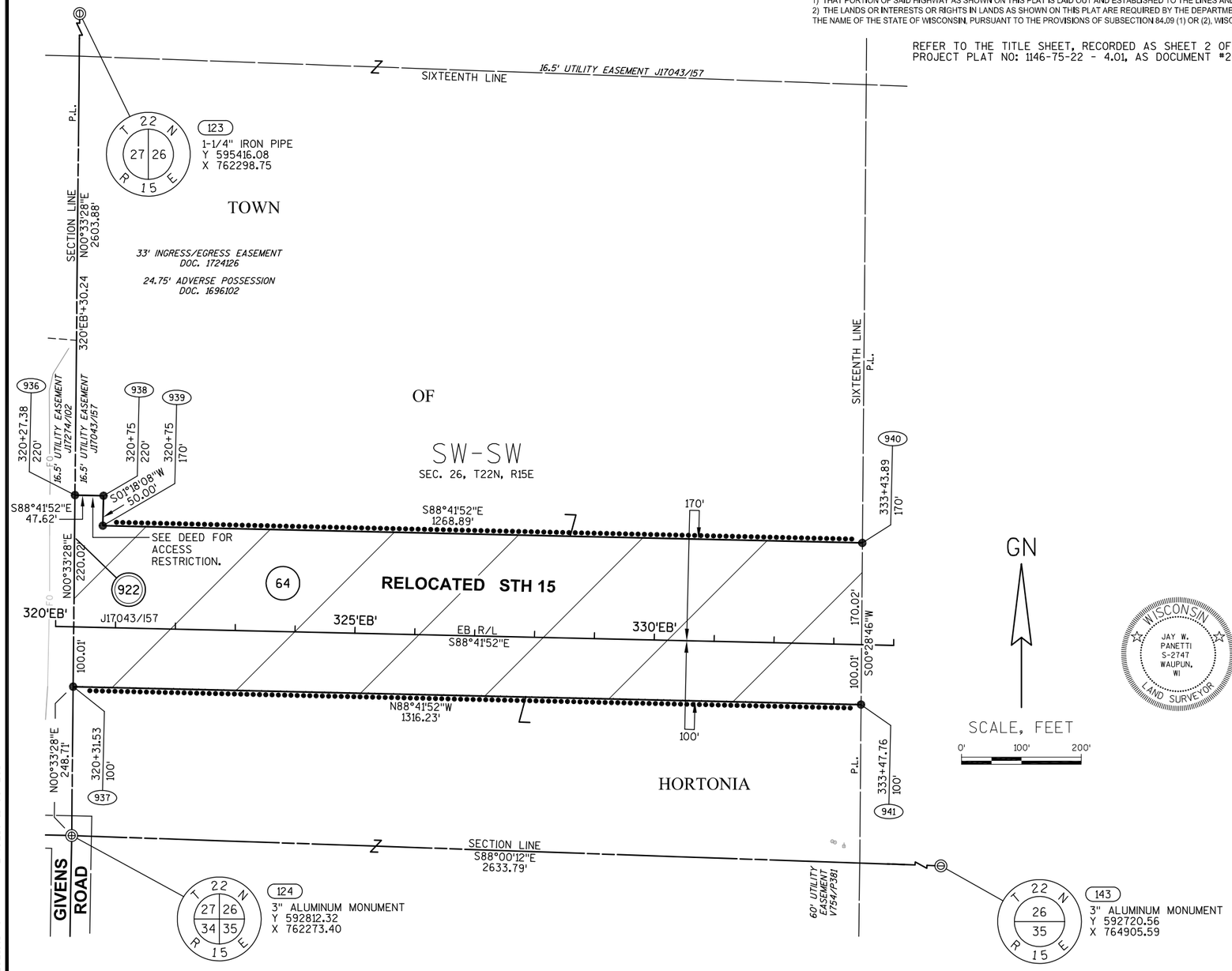
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

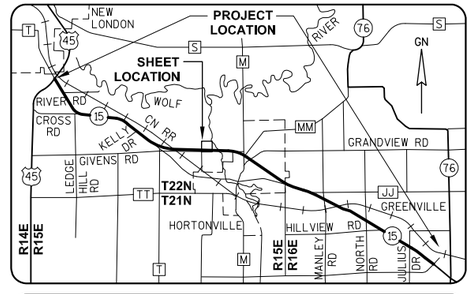
Document #: **2035592**
Date: **02-06-2015** Time: **09:16 AM**
Pages: 1 Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.25
AMENDMENT NO: 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.





GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.25, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 2/4/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

040425_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.25

PART OF THE SW1/4-SW1/4 OF SECTION 26, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **2017854**
Date: **06-19-2014** Time: **09:47 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.25
AMENDMENT NO:

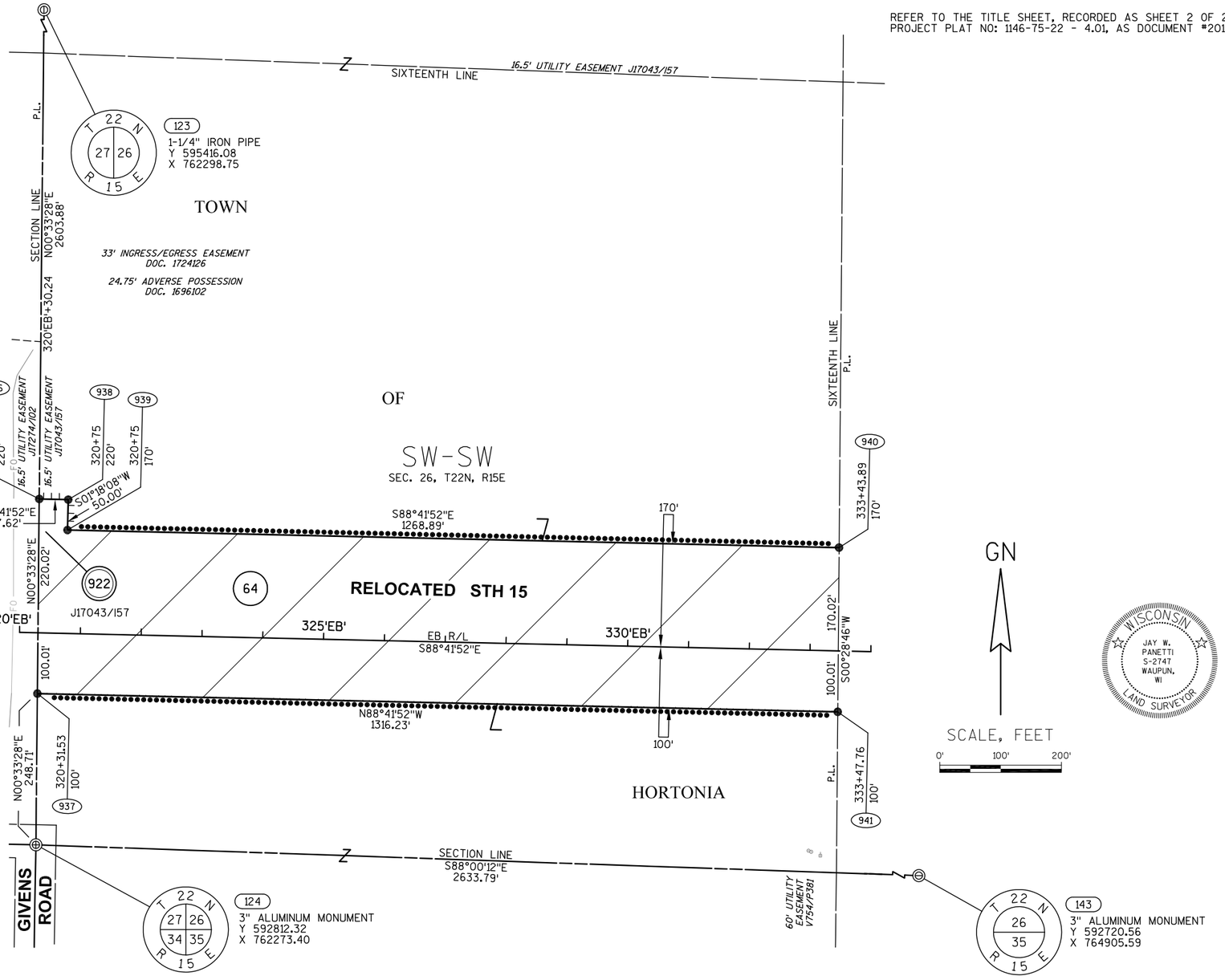
SCHEDULE OF LANDS & INTERESTS REQUIRED

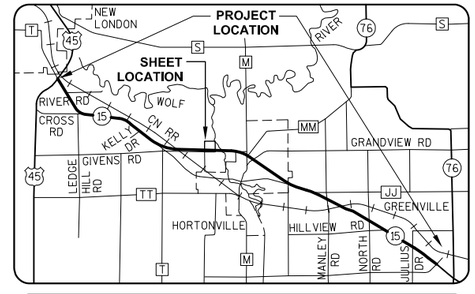
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW	ACRES REQUIRED EXISTING	ACRES REQUIRED TOTAL	TLE ACRES TEMP.
64	JAMES I. SYKES & MARIANN D. SYKES	FEE, ACCESS RIGHTS	8.212	0	8.212	0

UTILITY INTERESTS REQUIRED:

922	AT&T WISCONSIN	RELEASE OF RIGHTS





GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.25, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 5/21/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 6/18/2014 CURT VAN EREM
REAL ESTATE SUPERVISOR

040425_15.DWG REVISED: 05/21/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.26 AMENDMENT NO: 1

AMENDS PARCEL 66 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.26, RECORDED AS DOCUMENT #2017855.
PART OF THE SE1/4-SW1/4 OF SECTION 26, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
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REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

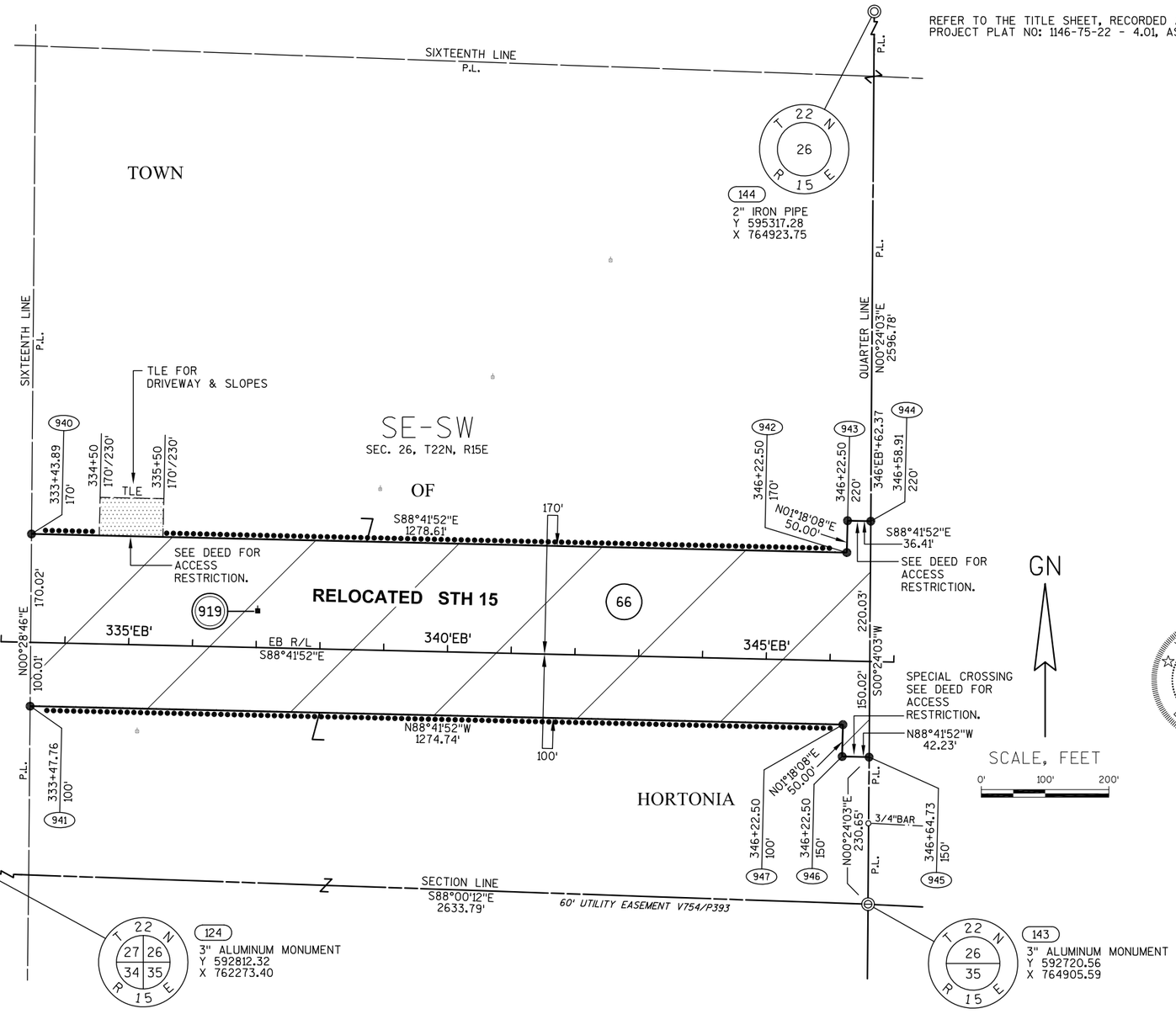
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

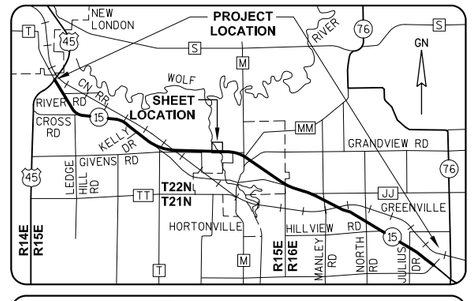
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
66	DON E. PARKER & MARGARET E. PARKER	FEE, TLE	8.247	0	8.247	0.138

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS



WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.26, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 12/09/2014 JAY W. PANETTI
RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 2/6/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

Document #: **2035792**
Date: **02-09-2015** Time: **12:33 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.26
AMENDMENT NO: 1

040426_15.DWG REVISED: 12/09/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.26

PART OF THE SE1/4-SW1/4 OF SECTION 26, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

Document #: **2017855**
Date: **06-19-2014** Time: **09:48 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this documen: has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.26
AMENDMENT NO:

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

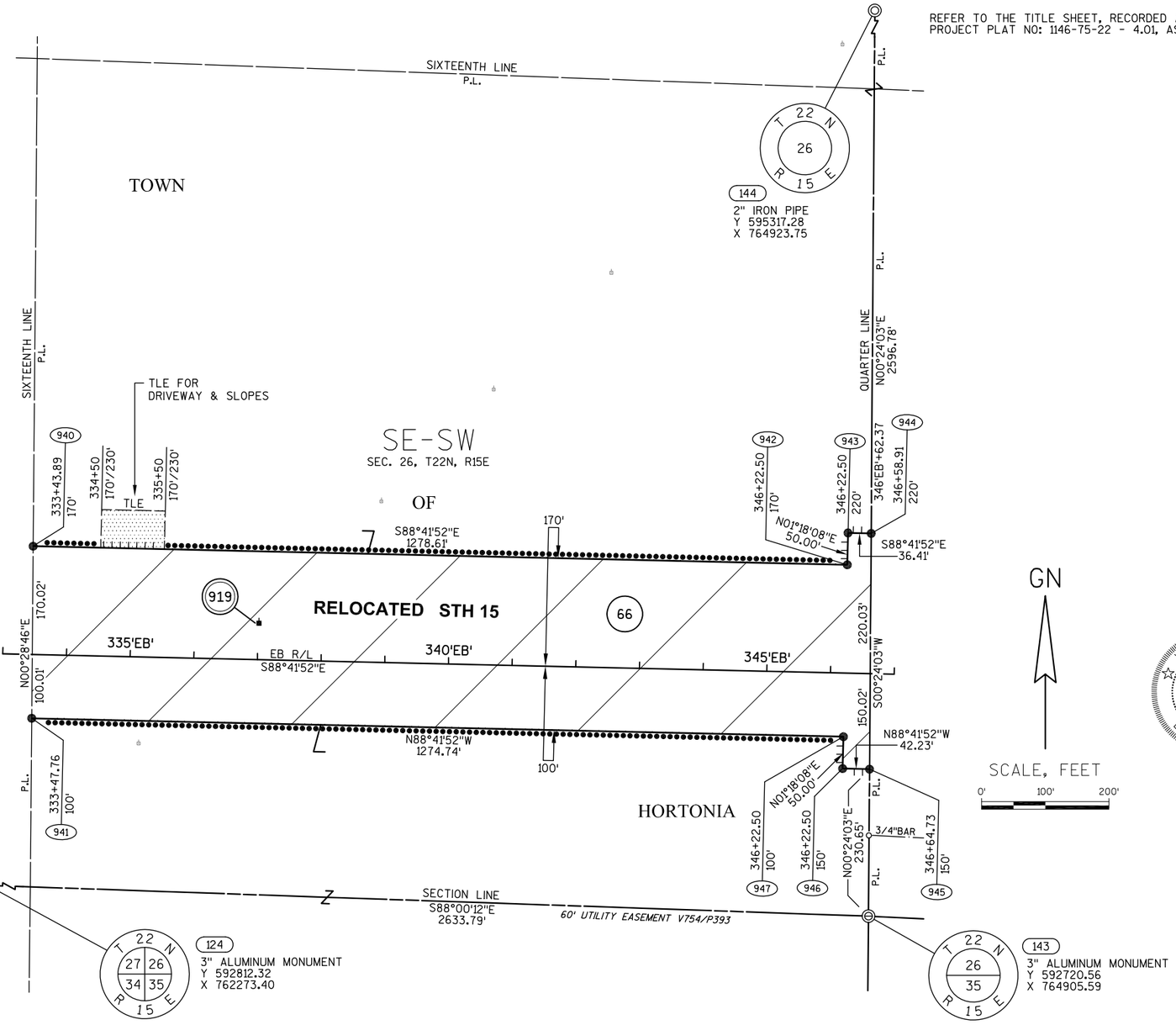
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

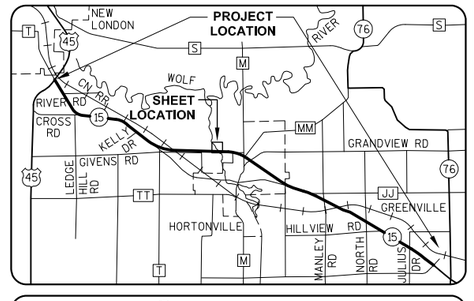
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
66	DON E. PARKER & MARGARET E. PARKER	FEE, ACCESS RIGHTS, TLE	8.247	0	8.247	0.138

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS



WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.26, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 5/21/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 6/18/2014 CURT VAN EREM
REAL ESTATE SUPERVISOR

040426_15.DWG REVISED: 05/21/2014

APPRAISAL PLAT DATE:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
67	MICHAEL S. SCHERNICK	FEE	4.345	0	4.345	0
68	GRAND VIEW GOLF CLUB, INC.	FEE	3.905	0	3.905	0

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.27 AMENDMENT NO: 1

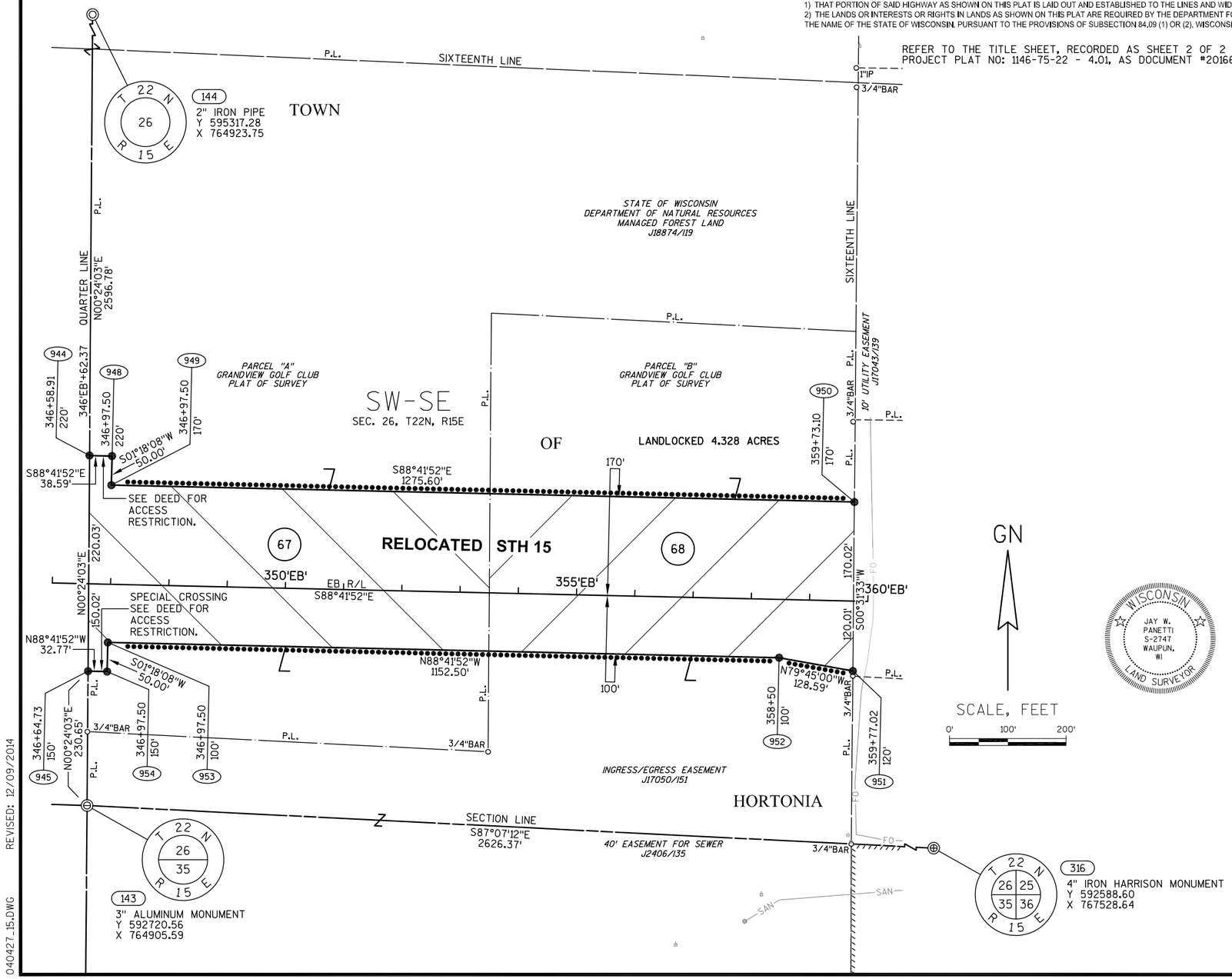
AMENDS PARCEL 67 AND PARCEL 68 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.27, RECORDED AS DOCUMENT #2017856.
PART OF THE SW1/4-SE1/4 OF SECTION 26, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

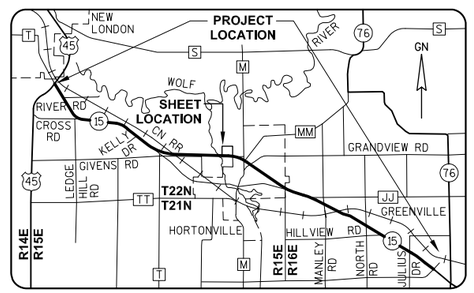
RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

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REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.





GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.27, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 12/09/2014 JAY W. PANETTI
RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 2/6/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

Document #: **2035793**
Date: **02-09-2015** Time: **12:34 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.27
AMENDMENT NO: 1

040427_15.DWG REVISED: 12/09/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.27

PART OF THE SW1/4-SE1/4 OF SECTION 26, T22N, R15E, TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **2017856**
Date: **06-19-2014** Time: **09:48 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

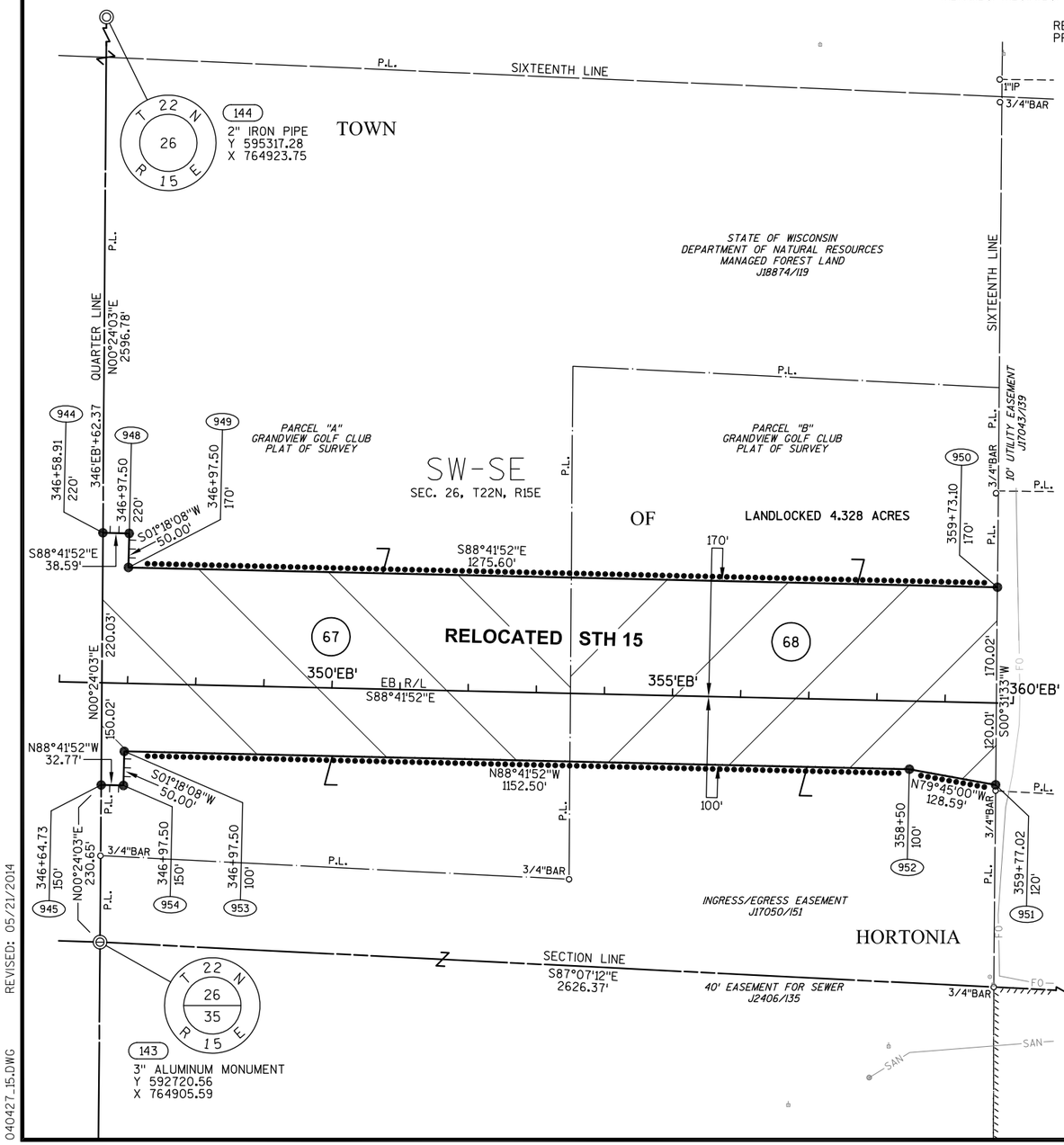
SARAH R VAN CANP
REGISTER OF DEEDS
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RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.27
AMENDMENT NO:

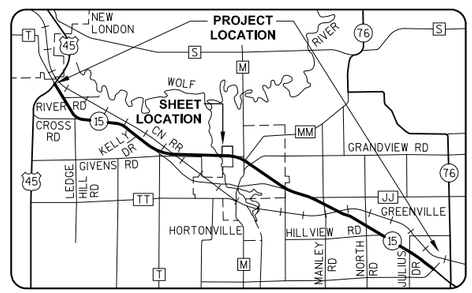
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
67	MICHAEL S. SCHERNICK	FEE, ACCESS RIGHTS	4.345	0	4.345	0
68	GRAND VIEW GOLF CLUB, INC.	FEE, ACCESS RIGHTS	3.905	0	3.905	0



WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.27, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 5/21/2014 JAY W. PANETTI
RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 6/18/2014 CURT VAN EREM
REAL ESTATE SUPERVISOR

040427_15.DWG REVISED: 05/21/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.28 AMENDMENT NO: 1

AMENDS PARCEL 69 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.28, RECORDED AS DOCUMENT #2017857. PART OF LOT 1 OF CSM 4252 BEING PART OF THE SE1/4-SE1/4 OF SECTION 26, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
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Document #: **2035593**
Date: **02-06-2015** Time: **09:16 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
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RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.28
AMENDMENT NO: 1

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
69	DARLENE R. GRANT & BRUCE GRANT	FEE	3.005	0	3.005	0

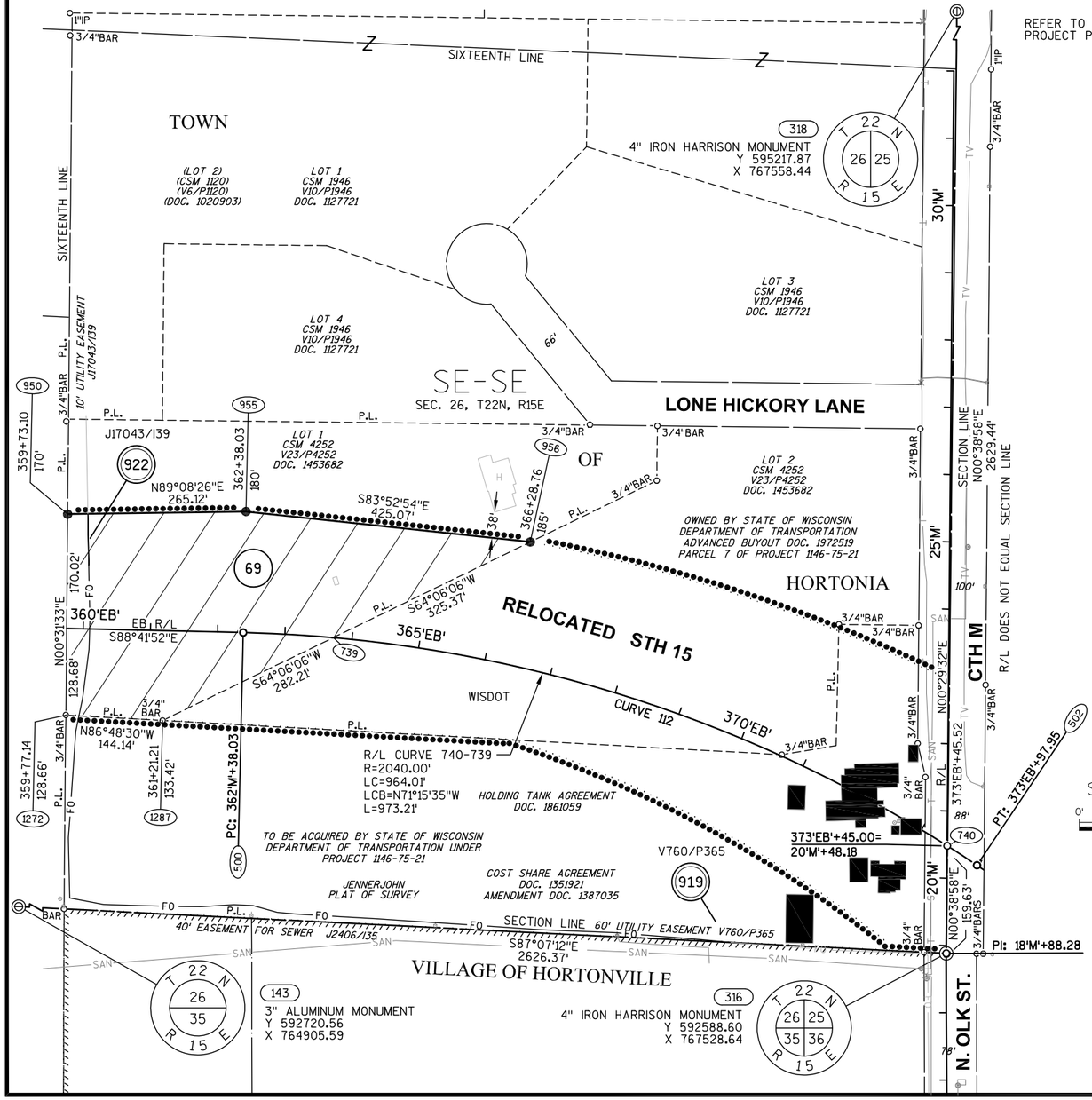
UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

BASIS OF EXISTING HIGHWAY R/W

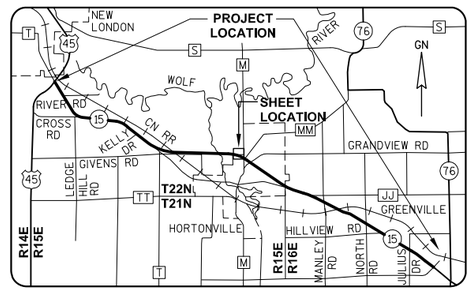
ROUTE	BASIS	YEAR
CTH M	OUTAGAMIE COUNTY MONUMENTATION PLAT	2009



RL CURVE DATA
CURVE 112 STH 15 EB

PI	368'EB'+34.136
N	593051.857
E	767079.455
DELTA	32°34'40"
D	02°48'31"
T	596.108'
L	1159.921'
R	2040.000'
LC	1144.360'
LCB	N72°24'32"W

WISCONSIN
JAY W. PANETTI
S-2747
WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.28, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/06/2014 JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 2/4/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

040428_15.DWG REVISED: 11/06/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.28

PART OF LOT 1 OF CSM 4252 BEING PART OF THE SE1/4-SE1/4 OF SECTION 26, T22N, R15E, ALL IN THE TOWN OF HORTONIA, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

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REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **2017857**
Date: **06-19-2014** Time: **09:50 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

SARAH R VAN CAMP
REGISTER OF DEEDS
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RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.28
AMENDMENT NO:

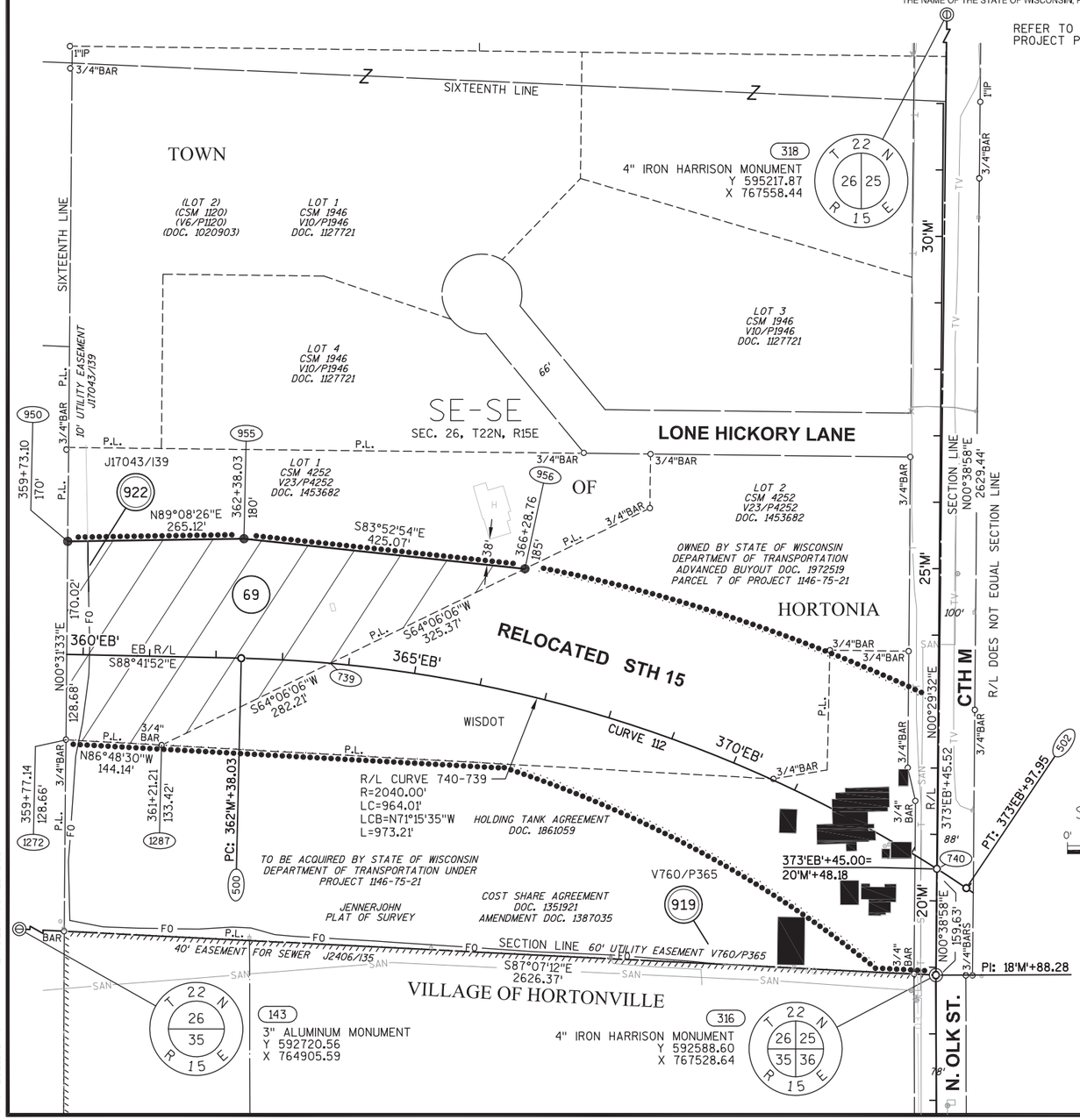
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW	ACRES REQUIRED EXISTING	TOTAL	TLE ACRES TEMP.
69	DARLENE R. GRANT & BRUCE GRANT	FEE, ACCESS RIGHTS	3.005	0	3.005	0

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

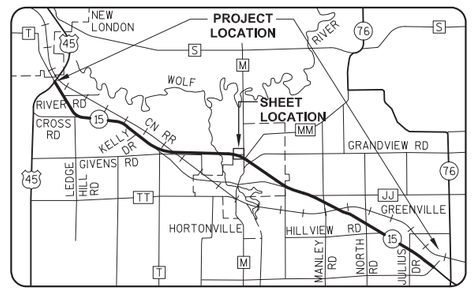


BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
CTH M	OUTAGAMIE COUNTY MONUMENTATION PLAT	2009

RL CURVE DATA
CURVE 112 STH 15 EB
PI 368'EB'+34.136
N 593051.857
E 767079.455
DELTA 32°34'40"
D 02°48'31"
T 596.108'
L 1159.921'
R 2040.000'
LC 1144.360'
LCB N72°24'32"W

WISCONSIN
JAY W. PANETTI S-2747 WAUPUN, WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.28, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 5/21/2014 — JAY W. PANETTI RLS S-2747, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 6/18/2014 — CURT VAN EREM, REAL ESTATE SUPERVISOR

040428_15.DWG REVISED: 05/21/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.29 AMENDMENT NO. 3

AMENDS PARCEL 101 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.29 AMENDMENT NO. 2 RECORDED AS DOCUMENT NO. 2064145, AND AMENDS PARCELS 105 AND 107, AND REMOVES PARCEL 108 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.29 RECORDED AS DOCUMENT NO. 2020289. PART OF LOTS 1 AND 2 OF CSM 381, AND PART OF LOT 1 OF CSM 6784, AND PART OF LOTS 7 AND 8 OF WILDWOOD VILLAGE, AND PART OF THE SW1/4-SW1/4 AND THE SE1/4-SW1/4 OF SECTION 25, T22N, R15E, ALL IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

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Document #: **2087449**
Date: **10-19-2016** Time: **03:09 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotNeRegionGreenbay

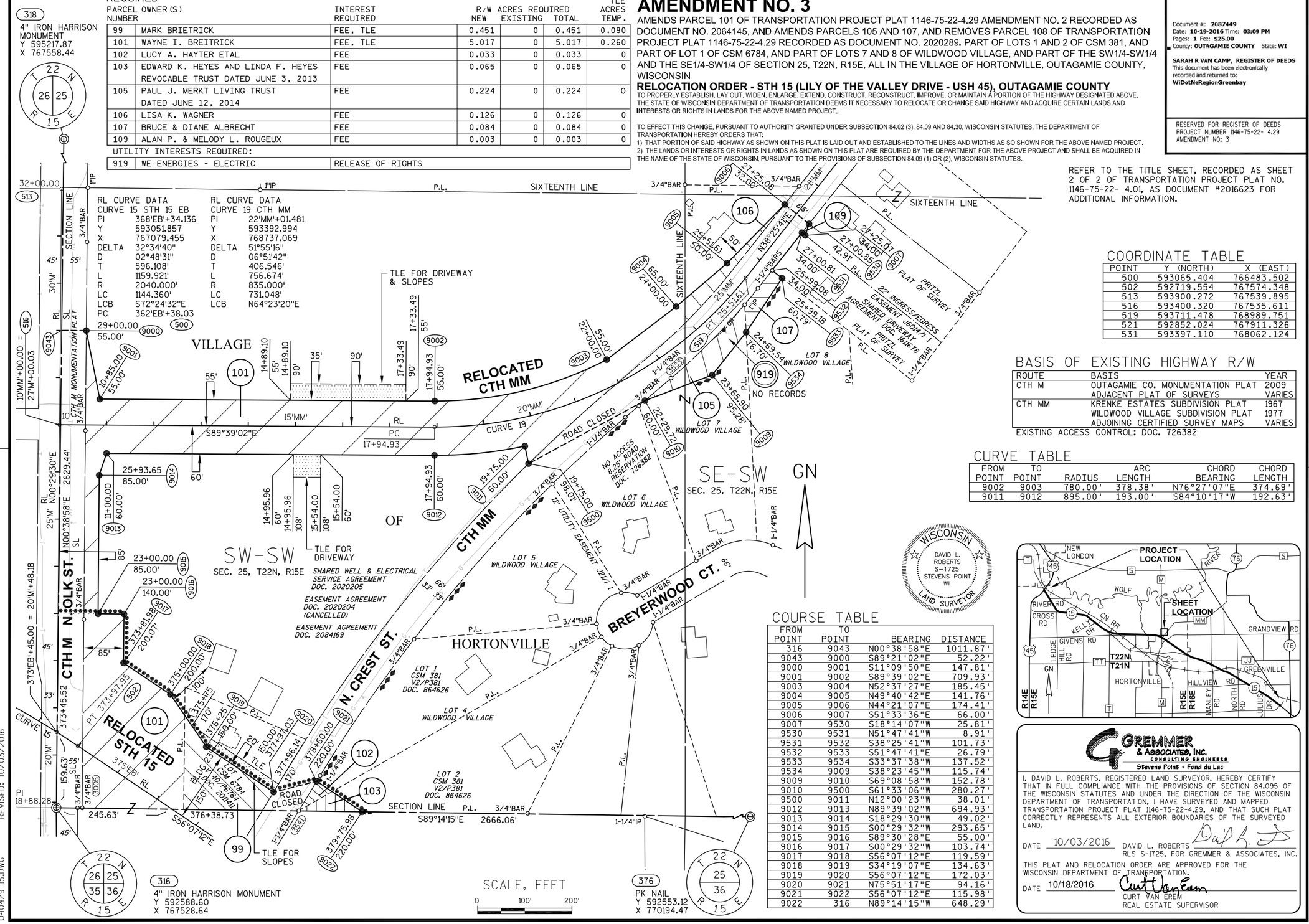
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.29
AMENDMENT NO: 3

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
99	MARK BRIETRICK	FEE, TLE	0.451	0	0.451	0.090
101	WAYNE I. BREITRICK	FEE, TLE	5.017	0	5.017	0.260
102	LUCY A. HAYTER ETAL	FEE	0.033	0	0.033	0
103	EDWARD K. HEYES AND LINDA F. HEYES REVOCABLE TRUST DATED JUNE 3, 2013	FEE	0.065	0	0.065	0
105	PAUL J. MERKT LIVING TRUST DATED JUNE 12, 2014	FEE	0.224	0	0.224	0
106	LISA K. WAGNER	FEE	0.126	0	0.126	0
107	BRUCE & DIANE ALBRECHT	FEE	0.084	0	0.084	0
109	ALAN P. & MELODY L. ROUGEUX	FEE	0.003	0	0.003	0
UTILITY INTERESTS REQUIRED:						
919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS				



COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
500	593065.404	766483.502
502	592719.554	767574.348
513	593900.272	767539.895
516	593400.320	767535.611
519	593711.478	768989.751
521	592852.024	767911.326
531	593397.110	768062.124

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
CTH M	OUTAGAMIE CO. MONUMENTATION PLAT	2009
	ADJACENT PLAT OF SURVEYS	VARIES
CTH MM	KRENKE ESTATES SUBDIVISION PLAT	1967
	WILDWOOD VILLAGE SUBDIVISION PLAT	1977
	ADJOINING CERTIFIED SURVEY MAPS	VARIES

EXISTING ACCESS CONTROL: DOC. 726382

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
9002	9003	780.00'	378.38'	N76°27'07"E	374.69'
9011	9012	895.00'	193.00'	S84°10'17"W	192.63'

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
316	9043	N00°38'58"E	1011.87'
9043	9000	S89°21'02"E	52.22'
9000	9001	S11°09'50"E	147.81'
9001	9002	S89°39'02"E	709.93'
9003	9004	N52°37'27"E	185.45'
9004	9005	N49°40'42"E	141.76'
9005	9006	N44°21'07"E	174.41'
9006	9007	S51°33'36"E	66.00'
9007	9530	S18°14'07"W	25.81'
9530	9531	N51°47'41"W	8.91'
9531	9532	S38°25'41"W	101.73'
9532	9533	S51°47'41"E	26.79'
9533	9534	S33°37'38"W	137.52'
9534	9009	S38°23'45"W	115.74'
9009	9010	S69°08'58"W	152.78'
9010	9500	S61°33'06"W	280.27'
9500	9011	N12°00'23"W	38.01'
9012	9013	N89°39'02"W	694.93'
9013	9014	S18°29'30"W	49.02'
9014	9015	S00°29'32"W	293.65'
9015	9016	S89°30'28"E	55.00'
9016	9017	S00°29'32"W	103.74'
9017	9018	S56°07'12"E	119.59'
9018	9019	S34°19'07"E	134.63'
9019	9020	S56°07'12"E	172.03'
9020	9021	N75°51'17"E	94.16'
9021	9022	S56°07'12"E	115.98'
9022	316	N89°14'15"W	648.29'

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT WI
LAND SURVEYOR

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.29, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 10/03/2016 DAVID L. ROBERTS
RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 10/18/2016 CURT VAN EREM
REAL ESTATE SUPERVISOR

REVISED: 10/03/2016
040429_15.DWG

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.29 AMENDMENT NO. 2

AMENDS PARCEL 101 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.29 AMENDMENT NO. 1 RECORDED AS DOCUMENT NO. 2035594. PART OF LOTS 1 AND 2 OF CSM 381, AND PART OF LOT 1 OF CSM 6784, AND PART OF LOTS 7 AND 8 OF WILDWOOD VILLAGE, AND PART OF THE SW1/4-SW1/4 AND THE SE1/4-SW1/4 OF SECTION 25, T22N, R15E, ALL IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

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Document #: **2064145**
Date: **01-21-2016** Time: **10:30 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotNeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.29
AMENDMENT NO: 2

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

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101	WAYNE I. BREITRICK	FEE	5.017	0	5.017	0
102	LUCY A. HAYTER ETAL	FEE	0.033	0	0.033	0
103	EDWARD K. HEYES AND LINDA F. HEYES REVOCABLE TRUST DATED JUNE 3, 2013	FEE	0.065	0	0.065	0
105	PAUL J. MERKT LIVING TRUST DATED JUNE 12, 2014	FEE	0.243	0	0.243	0
106	LISA K. WAGNER	FEE	0.126	0	0.126	0
107	BRUCE & DIANE ALBRECHT	FEE	0.127	0	0.127	0
108	GARY S. GASSER	FEE	0.064	0	0.064	0
109	ALAN P. & MELODY L. ROUGEUX	FEE	0.003	0	0.003	0
UTILITY INTERESTS REQUIRED:						
919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS				

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
500	593065.404	766483.502
502	592719.554	767574.348
513	593900.272	767539.895
516	593400.320	767535.611
519	593711.478	768989.751
521	592852.024	767911.326
531	593397.110	768062.124

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
CTH M	OUTAGAMIE CO. MONUMENTATION PLAT	2009
	ADJACENT PLAT OF SURVEYS	VARIES
CTH MM	KRENKE ESTATES SUBDIVISION PLAT	1967
	WILDWOOD VILLAGE SUBDIVISION PLAT	1977
	ADJOINING CERTIFIED SURVEY MAPS	VARIES

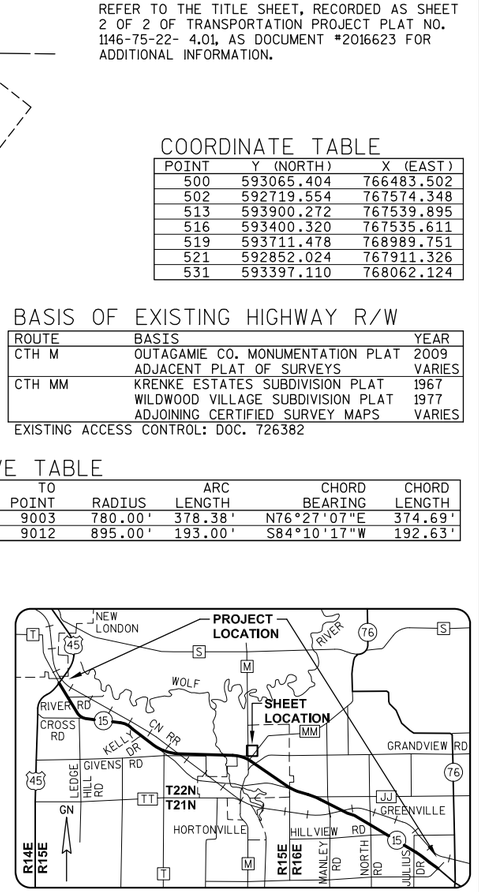
EXISTING ACCESS CONTROL: DOC. 726382

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
9002	9003	780.00'	378.38'	N76°27'07"E	374.69'
9011	9012	895.00'	193.00'	S84°10'17"W	192.63'

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
316	9043	N00°38'58"E	1011.87'
9043	9000	S89°21'02"E	52.22'
9000	9001	S11°09'50"E	147.81'
9001	9002	S89°39'02"E	709.93'
9003	9004	N52°37'27"E	185.45'
9004	9005	N49°40'42"E	141.76'
9005	9006	N44°21'07"E	174.41'
9006	9007	S51°33'36"E	66.00'
9007	9008	S18°14'07"W	133.26'
9008	9009	S38°25'41"W	240.75'
9009	9010	S69°08'58"W	167.72'
9010	9500	S61°33'06"W	280.27'
9500	9011	N12°00'23"W	38.01'
9012	9013	N89°39'02"W	694.93'
9013	9014	S18°29'30"W	49.02'
9014	9015	S00°29'32"W	293.65'
9015	9016	S89°30'28"E	55.00'
9016	9017	S00°29'32"W	103.74'
9017	9018	S56°07'12"E	119.59'
9018	9019	S34°19'07"E	134.63'
9019	9020	S56°07'12"E	172.03'
9020	9021	N75°51'17"E	94.16'
9021	9022	S56°07'12"E	115.98'
9022	316	N89°14'15"W	648.29'



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.29, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 01/10/2016 DAVID L. ROBERTS
RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 1/19/2016 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN DAVID L. ROBERTS S-1725 STEVENS POINT WI LAND SURVEYOR

040429_15.DWG REVISED: 01/10/2016

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.29 AMENDMENT NO. 1

ADDS PARCEL 99 AND AMENDS PARCEL 101 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.29 RECORDED AS DOCUMENT NO. 2020289. PART OF LOTS 1 AND 2 OF CSM 381, AND PART OF LOT 1 OF CSM 6784, AND PART OF LOTS 7 AND 8 OF WILDWOOD VILLAGE, AND PART OF THE SW1/4-SW1/4 AND THE SE1/4-SW1/4 OF SECTION 25, T22N, R15E, ALL IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: **2035594**
Date: **02-06-2015** Time: **09:16 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.29
AMENDMENT NO: 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

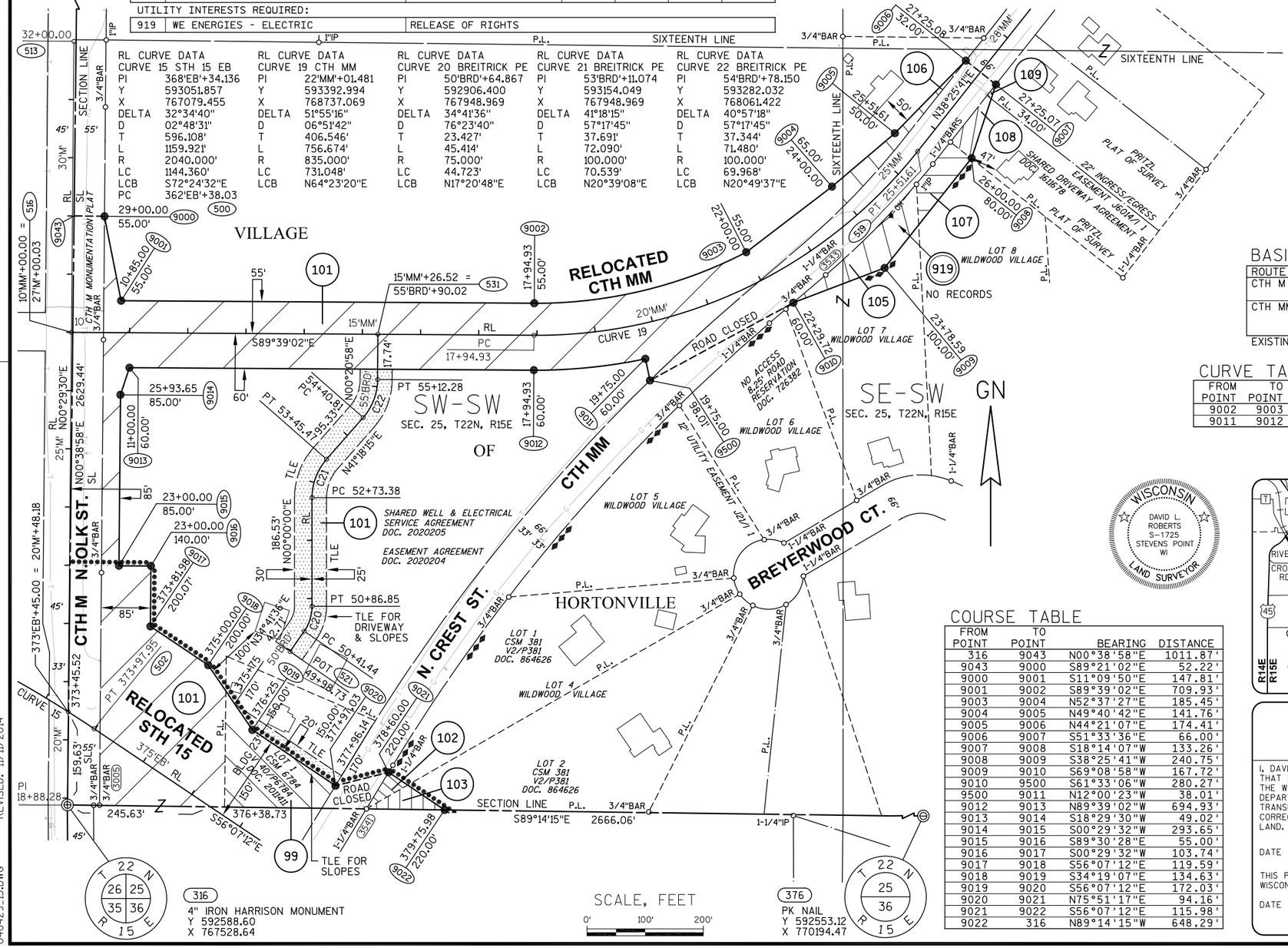
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
99	MARK BRIETRICK	FEE, TLE	0.451	0	0.451	0.090
101	WAYNE I. BREITRICK	FEE, TLE	5.017	0	5.017	0.669
102	LUCY A. HAYTER ETAL	FEE	0.033	0	0.033	0
103	EDWARD K. HEYES AND LINDA F. HEYES REVOCABLE TRUST DATED JUNE 3, 2013	FEE	0.065	0	0.065	0
105	PAUL J. MERKT LIVING TRUST DATED JUNE 12, 2014	FEE	0.243	0	0.243	0
106	LISA K. WAGNER	FEE	0.126	0	0.126	0
107	BRUCE & DIANE ALBRECHT	FEE	0.127	0	0.127	0
108	GARY S. GASSER	FEE	0.064	0	0.064	0
109	ALAN P. & MELODY L. ROUGEUX	FEE	0.003	0	0.003	0

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS



COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
500	593065.404	766483.502
502	592719.554	767574.348
513	593900.272	767539.895
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531	593397.110	768062.124

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
CTH M	OUTAGAMIE CO. MONUMENTATION PLAT	2009
	ADJACENT PLAT OF SURVEYS	VARIES
CTH MM	KRENKE ESTATES SUBDIVISION PLAT	1967
	WILDWOOD VILLAGE SUBDIVISION PLAT	1977
	ADJOINING CERTIFIED SURVEY MAPS	VARIES

EXISTING ACCESS CONTROL: DOC. 726382

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
9002	9003	780.00'	378.38'	N76°27'07"E	374.69'
9011	9012	895.00'	193.00'	S84°10'17"W	192.63'

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
316	9043	N00°38'58"E	1011.87'
9043	9000	S89°21'02"E	52.22'
9000	9001	S11°09'50"E	147.81'
9001	9002	S89°39'02"E	709.93'
9003	9004	N52°37'27"E	185.45'
9004	9005	N49°40'42"E	141.76'
9005	9006	N44°21'07"E	174.41'
9006	9007	S51°33'36"E	66.00'
9007	9008	S18°14'07"W	133.26'
9008	9009	S38°25'41"W	240.75'
9009	9010	S69°08'58"W	167.72'
9010	9500	S61°33'06"W	280.27'
9500	9011	N12°00'23"W	38.01'
9012	9013	N89°39'02"W	694.93'
9013	9014	S18°29'30"W	49.02'
9014	9015	S00°29'32"W	293.65'
9015	9016	S89°30'28"E	55.00'
9016	9017	S00°29'32"W	103.74'
9017	9018	S56°07'12"E	119.59'
9018	9019	S34°19'07"E	134.63'
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WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT
WI
LAND SURVEYOR

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.29, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/11/2014 DAVID L. ROBERTS
RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 2/4/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

040429_15.DWG REVISED: 11/11/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.29

PART OF LOTS 1 AND 2 OF CSM 381, AND PART OF LOT 1 OF CSM 6784, AND PART OF LOTS 7 AND 8 OF WILDWOOD VILLAGE, AND PART OF THE SW1/4-SW1/4 AND THE SE1/4-SW1/4 OF SECTION 25, T22N, R15E, ALL IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

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REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: 2020289
Date: 07-18-2014 Time: 12:34 PM Pages: 1
Fee: $25.00 County: OUTAGAMIE State: WI

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording infomation verifies this cocument has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.29
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
101	THE ESTATE OF EMELINE A. BREITRICK	FEE, TLE	5.468	0	5.468	0.759
102	LUCY A. HAYTER ETAL	FEE	0.033	0	0.033	0
103	LEONARD K. & LINDA F. HEYES REVOCABLE TRUST DATED JUNE 3, 2013	FEE	0.065	0	0.065	0
105	PAUL J. MERKT LIVING TRUST DATED JUNE 12, 2014	FEE	0.243	0	0.243	0
106	LISA K. WAGNER	FEE	0.126	0	0.126	0
107	BRUCE & DIANE ALBRECHT	FEE	0.127	0	0.127	0
108	GARY S. GASSER	FEE	0.064	0	0.064	0
109	ALAN P. & MELODY L. ROUGEUX	FEE	0.003	0	0.003	0

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS

318
4" IRON HARRISON MONUMENT
Y 595217.87
X 767558.44
AFFIDAVIT DOC NO 2022508
AFFIDAVIT DOC NO 2022509

T 22 N R 15 E
26 25

RL CURVE DATA CURVE 15 STH 15 EB		RL CURVE DATA CURVE 19 CTH MM		RL CURVE DATA CURVE 20 BREITRICK PE		RL CURVE DATA CURVE 21 BREITRICK PE		RL CURVE DATA CURVE 22 BREITRICK PE	
PI	368'EB'+34.136	PI	22'MM'+01.481	PI	50'BRD'+64.867	PI	53'BRD'+11.074	PI	54'BRD'+78.150
Y	593051.857	Y	593392.994	Y	592906.400	Y	593154.049	Y	593282.032
X	767079.455	X	768737.069	X	767948.969	X	767948.969	X	768061.422
DELTA	32°34'40"	DELTA	51°55'16"	DELTA	34°41'36"	DELTA	41°18'15"	DELTA	40°57'18"
D	02°48'31"	D	06°51'42"	D	76°23'40"	D	57°17'45"	D	57°17'45"
T	596.108'	T	406.546'	T	23.427'	T	37.691'	T	37.344'
L	1159.921'	L	756.674'	L	45.414'	L	72.090'	L	71.480'
R	2040.000'	R	835.000'	R	75.000'	R	100.000'	R	100.000'
LC	1144.360'	LC	731.048'	LC	44.723'	LC	70.539'	LC	69.968'
LCB	S72°24'32"E	LCB	N64°23'20"E	LCB	N17°20'48"E	LCB	N20°39'08"E	LCB	N20°49'37"E
PC	362'EB'+38.03								

COORDINATE TABLE

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502	592719.554	767574.348
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BASIS OF EXISTING HIGHWAY R/W

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	ADJACENT PLAT OF SURVEYS	VARIES
CTH MM	KRENKE ESTATES SUBDIVISION PLAT	1967
	WILDWOOD VILLAGE SUBDIVISION PLAT	1977
	ADJOINING CERTIFIED SURVEY MAPS	VARIES

EXISTING ACCESS CONTROL: DOC. 726382

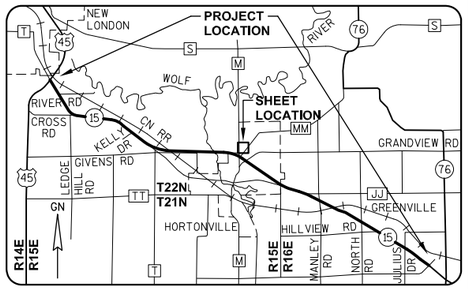
CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
9002	9003	780.00'	378.38'	N76°27'07"E	374.69'
9011	9012	895.00'	193.00'	S84°10'17"W	192.63'

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
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9043	9000	S89°21'02"E	52.22'
9000	9001	S11°09'50"E	147.81'
9001	9002	S89°39'02"E	709.93'
9003	9004	N52°37'27"E	185.45'
9004	9005	N49°40'42"E	141.76'
9005	9006	N44°21'07"E	174.41'
9006	9007	S51°33'36"E	66.00'
9007	9008	S18°14'07"W	133.26'
9008	9009	S38°25'41"W	240.75'
9009	9010	S69°08'58"W	167.72'
9010	9500	S61°33'06"W	280.27'
9500	9011	N12°00'23"W	38.01'
9012	9013	N89°39'02"W	694.93'
9013	9014	S18°29'30"W	49.02'
9014	9015	S00°29'32"W	293.65'
9015	9016	S89°30'28"E	55.00'
9016	9017	S00°29'32"W	103.74'
9017	9018	S56°07'12"E	119.59'
9018	9019	S34°19'07"E	134.63'
9019	9020	S56°07'12"E	172.03'
9020	9021	N75°51'17"E	94.16'
9021	9022	S56°07'12"E	115.98'
9022	316	N89°14'15"W	648.29'

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT WI
LAND SURVEYOR



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.29, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 7/14/2014 DAVID L. ROBERTS
RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 7/18/2014 CURT VAN EREM
REAL ESTATE SUPERVISOR

316
4" IRON HARRISON MONUMENT
Y 592588.60
X 767528.64

376
PK NAIL
Y 592553.12
X 770194.47

SCALE, FEET
0' 100' 200'

040429_15.DWG REVISED: 07/14/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.30 AMENDMENT NO. 2

ADDS PARCEL 97, AND AMENDS PARCEL 111 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.30 RECORDED AS DOCUMENT NO. 2019923. PART OF LOT 1 AND OUTLOT 1 OF CSM 7307, AND PART OF THE NW1/4-NW1/4 AND THE NE1/4-NW1/4 OF SECTION 36, T22N, R15E, IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: **2099326**
Date: **03-16-2017** Time: **12:33 PM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

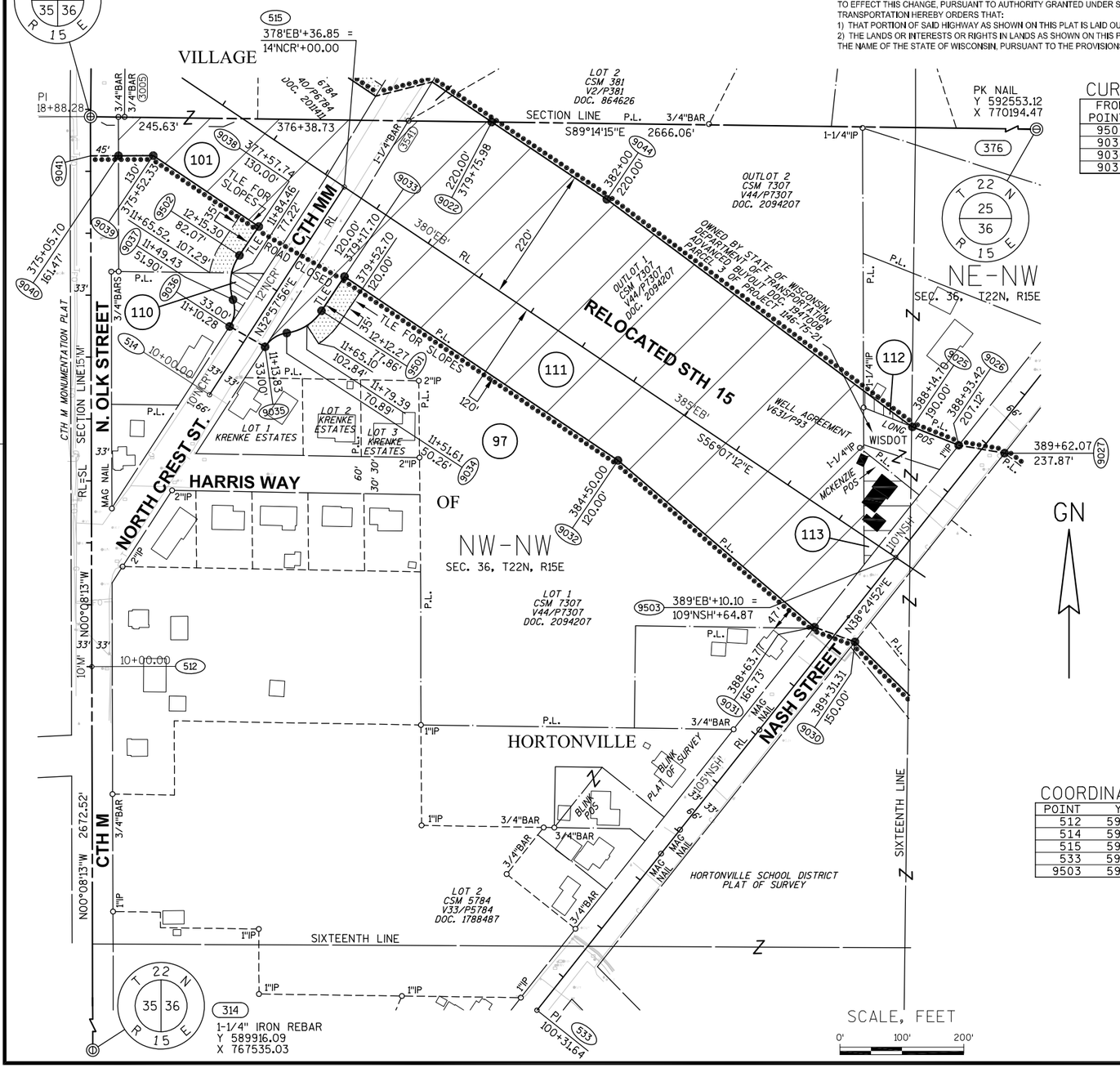
SARAH R VAN CAMP, REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotNeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.30
AMENDMENT NO: 2

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW	ACRES REQUIRED EXISTING	TOTAL	TLE ACRES TEMP.
97	CARE PROPERTIES, LLC	TLE	0	0	0	0.086
101	THE ESTATE OF EMELINE A. BREITRICK	FEE, TLE	1.087	0	1.087	0.078
110	KEITH A. FINK	FEE	0.047	0	0.047	0
111	WAYNE I. BREITRICK	FEE	7.463	0	7.463	0
112	LARRY L. & JUDITH KLITZKE	FEE	0.025	0	0.025	0
113	RONALD & GERALDINE HOIER	FEE	0.260	0	0.260	0



CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
9501	9034	80.00'	68.74'	S57°26'23"W	66.64'
9034	9035	50.00'	42.84'	S57°30'36"W	41.54'
9036	9037	50.00'	44.97'	N07°11'53"E	43.47'
9037	9502	80.00'	75.18'	N08°21'15"E	72.45'

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

COURSE TABLE

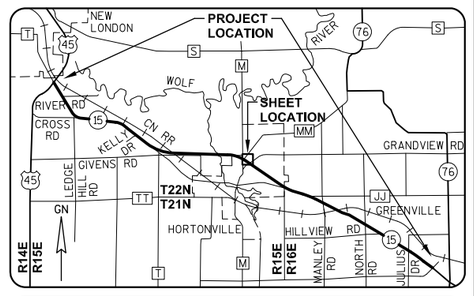
FROM POINT	TO POINT	BEARING	DISTANCE
316	9022	S89°14'15"E	648.29'
9022	9044	S56°07'12"E	224.02'
9044	9025	S53°19'34"E	615.43'
9025	9026	S68°23'09"E	80.58'
9026	9027	S80°14'59"E	75.22'
9027	9030	S38°24'52"W	389.08'
9030	9031	N70°02'08"W	69.58'
9031	9032	N49°40'35"W	416.41'
9032	9033	N56°07'12"W	532.30'
9033	9501	S33°52'48"W	66.46'
9035	9036	N60°06'28"W	66.10'
9502	9038	N33°52'48"E	55.99'
9038	9039	N56°07'12"W	205.40'
9039	9040	S89°51'47"W	56.26'
9040	9041	S89°51'47"W	45.00'
9041	316	N00°08'13"W	63.28'

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
NASH ST.	ADJOINING CERTIFIED SURVEY MAPS	VARIES
	ADJOINING PLAT OF SURVEYS	VARIES
	WILDWOOD VILLAGE SUBDIVISION PLAT	1977
CTH MM	KRENKE ESTATES SUBDIVISION PLAT	1967

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
512	591700.326	767530.763
514	592139.292	767721.074
515	592474.889	767938.725
533	591145.381	768249.892
9503	591876.599	768829.749



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.30, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 3/14/2017 DAVID L. ROBERTS
RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 3/14/2017 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT
WI
LAND SURVEYOR

040430_15.DWG REVISED: 03/14/2017

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.30 AMENDMENT NO. 1

AMENDS PARCEL 113 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.30 RECORDED AS DOCUMENT NO. 2019923. PART OF THE NW1/4-NW1/4 AND THE NE1/4-NW1/4 OF SECTION 36, T22N, R15E, IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: **2037649**
Date: **03-10-2015** Time: **10:40 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.30
AMENDMENT NO: 1

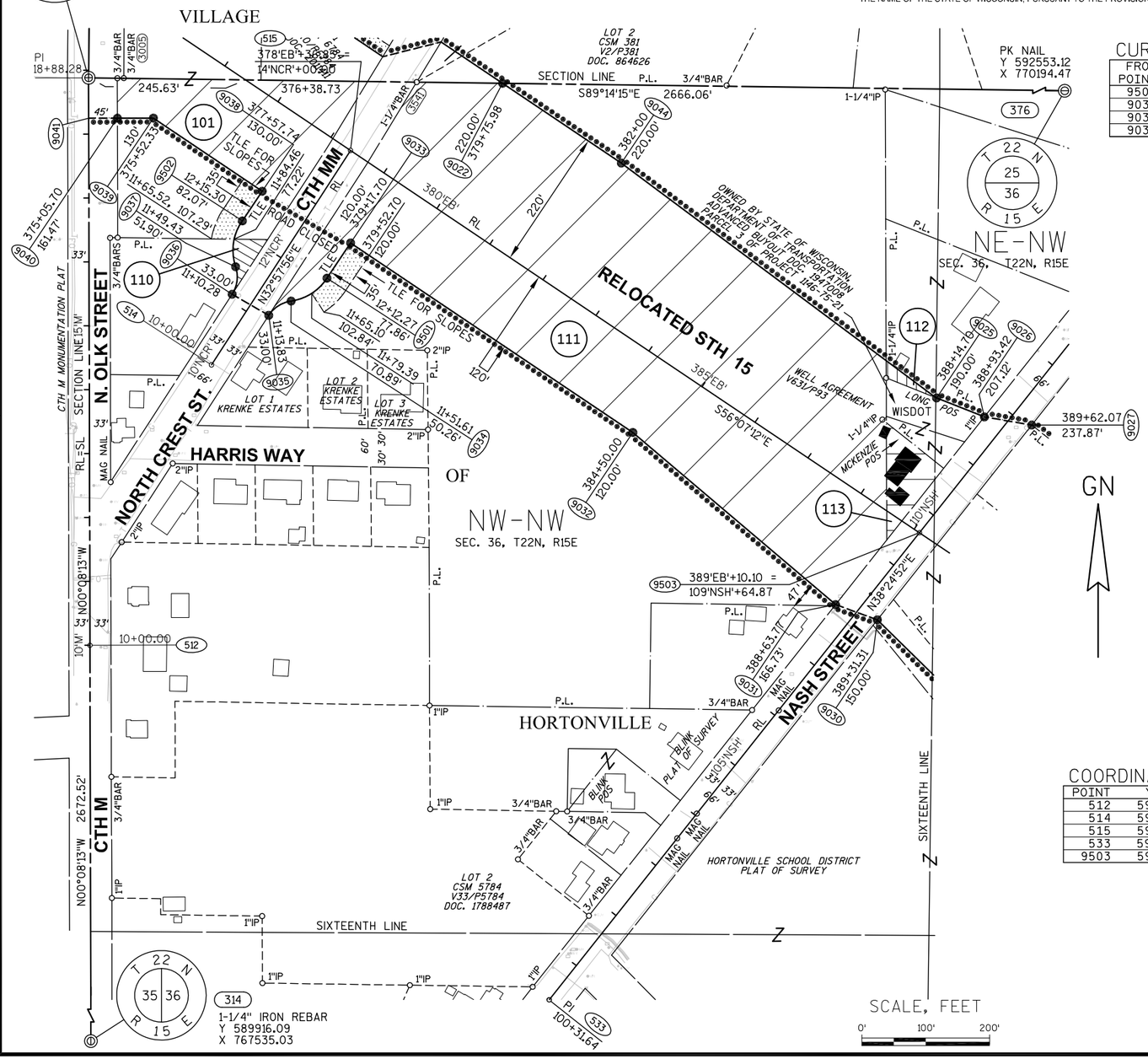
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
101	THE ESTATE OF EMELINE A. BREITRICK	FEE, TLE	1.087	0	1.087	0.078
110	KEITH A. FINK	FEE	0.047	0	0.047	0
111	THE ESTATE OF EMELINE A. BREITRICK	FEE, TLE	7.442	0	7.442	0.086
112	LARRY L. & JUDITH KLITZKE	FEE	0.025	0	0.025	0
113	RONALD & GERALDINE HOIER	FEE	0.260	0	0.260	0

316
4" IRON HARRISON MONUMENT
Y 592588.60
X 767528.64

T 22 N R 15 E
26 25 35 36



CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
9501	9034	80.00'	68.74'	S57°26'23"W	66.64'
9034	9035	50.00'	42.84'	S57°30'36"W	41.54'
9036	9037	50.00'	44.97'	N07°11'53"E	43.47'
9037	9502	80.00'	75.18'	N08°21'15"E	72.45'

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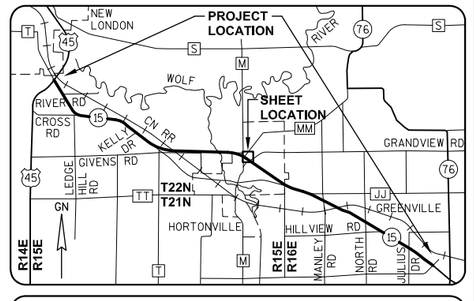
FROM POINT	TO POINT	BEARING	DISTANCE
316	9022	S89°14'15"E	648.29'
9022	9044	S56°07'12"E	224.02'
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9025	9026	S68°23'09"E	80.58'
9026	9027	S80°14'59"E	75.22'
9027	9030	S38°24'52"W	389.08'
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9032	9033	N56°07'12"W	532.30'
9033	9501	S33°52'48"W	66.46'
9035	9036	N60°06'28"W	66.10'
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9040	9041	S89°51'47"W	45.00'
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BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
NASH ST.	ADJOINING CERTIFIED SURVEY MAPS	VARIES
	ADJOINING PLAT OF SURVEYS	VARIES
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COORDINATE TABLE

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GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.30, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 3/05/2015 DAVID L. ROBERTS
RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 3/05/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT
WI
LAND SURVEYOR

040430_15.DWG REVISED: 03/05/2015

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.30

PART OF THE NW1/4-NW1/4 AND THE NE1/4-NW1/4 OF SECTION 36, T22N, R15E, IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

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RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.30
AMENDMENT NO:

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
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110	KEITH A. FINK	FEE	0.047	0	0.047	0
111	THE ESTATE OF EMELINE A. BREITRICK	FEE, TLE	7.442	0	7.442	0.086
112	LARRY L. & JUDITH KLITZKE	FEE	0.025	0	0.025	0
113	RONALD & GERALDINE HOIER	FEE	~~0.188~~	0	~~0.188~~	0

316
4" IRON HARRISON MONUMENT
Y 592588.60
X 767528.64

T 22 N R 15 E
26 25 35 36

VILLAGE OF NW-NW SEC. 36, T22N, R15E

HORTONVILLE

PI 18+88.28
515 378'EB'+36.85 = 14'NCR'+00.00
376+38.73
245.63'
SECTION LINE S89°14'15"E 2666.06'
P.L.
3/4"BAR
1-1/4"IP
PK NAIL Y 592553.12 X 770194.47
376
LOT 2 CSM 381 V2/P381 DOC. 864626
9044
382+00 220.00'
220.00' 379+75.98
9033
9022
380'EB'
RL
220'
OWNED BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION AS PARCEL 3 OF PLAT OF PROJECT 1146-10-08 & 1146-10-21
P.L.
NE-NW SEC. 36, T22N, R15E
112
111
RELOCATED STH 15
385'EB'
S56°07'12"E
WELL AGREEMENT V631/P93
LONG POS
1-1/4"IP
WISDOT
MCKENZIE POS
113
LIONS'
389+62.07
237.87'
9027
388+14.70 90.00'
388+93.42 207.12'
9025
9026
384+50.00 120.00'
9032
389'EB'+10.10 = 109'NSH'+64.87
9503
388+63.70 166.73'
9031
389+31.31 150.00'
9030
N38°24'52"E
NASH STREET
SIXTEENTH LINE
101
CTH MM
RL
TLE FOR SLOPES
11+84.46 77.22'
9038
377+57.74 130.00'
375+52.33 130'
9502
12+15.30 82.07'
11+65.52 107.29'
9037
11+49.43 51.90'
9036
33.00'
11+10.28
9039
375+05.10 161.47'
9040
45'
33'
9041
CTH MM MONUMENTATION PLAT
RL=SL SECTION LINE 15'W
MAG NAIL
110
3/4"BARS
514
10+00.00
33'
33.00'
12°NCR'
N32°57'56"E
12+12.27 102.84'
11+65.10 77.86'
9501
11+79.39 70.89'
9035
11+51.61 50.26'
9034
LOT 1 KRENKE ESTATES
LOT 2 KRENKE ESTATES
LOT 3 KRENKE ESTATES
2"IP
60'
30'
NORTH CREST ST.
HARRIS WAY
N. OLK STREET
10'W
NOO°08'13"W
10+00.00
512
1"IP
3/4"BAR
CTH M
2672.52'
LOT 2 CSM 5784 V33/P5784 DOC. 1788487
BLINK POS
BLINK OF SURVEY PLAT
105'NSH'
54'
MAG NAIL
HORTONVILLE SCHOOL DISTRICT PLAT OF SURVEY
SIXTEENTH LINE
314
1-1/4" IRON REBAR
Y 589916.09
X 767535.03
PI 100+31.64
533
SCALE, FEET
0' 100' 200'
GN

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
9501	9034	80.00'	68.74'	S57°26'23"W	66.64'
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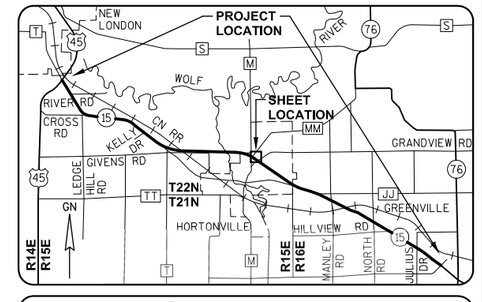
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9026	9027	S80°14'59"E	75.22'
9027	9030	S38°24'52"W	389.08'
9030	9031	N70°02'08"W	69.58'
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9040	9041	S89°51'47"W	45.00'
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BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
NASH ST.	ADJOINING CERTIFIED SURVEY MAPS	VARIES
	ADJOINING PLAT OF SURVEYS	VARIES
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GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.30, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 7/08/2014 DAVID L. ROBERTS RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 7/09/2014 CURT VAN EREM REAL ESTATE SUPERVISOR

WISCONSIN DAVID L. ROBERTS S-1725 STEVENS POINT WI LAND SURVEYOR

040430_15.DWG REVISED: 07/08/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.31

PART OF THE NE1/4-NW1/4 AND THE NW1/4-NW1/4 OF SECTION 36, T22N, R15E, IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

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Document #: **2019924**
Date: **07-15-2014** Time: **08:28 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.31
AMENDMENT NO:

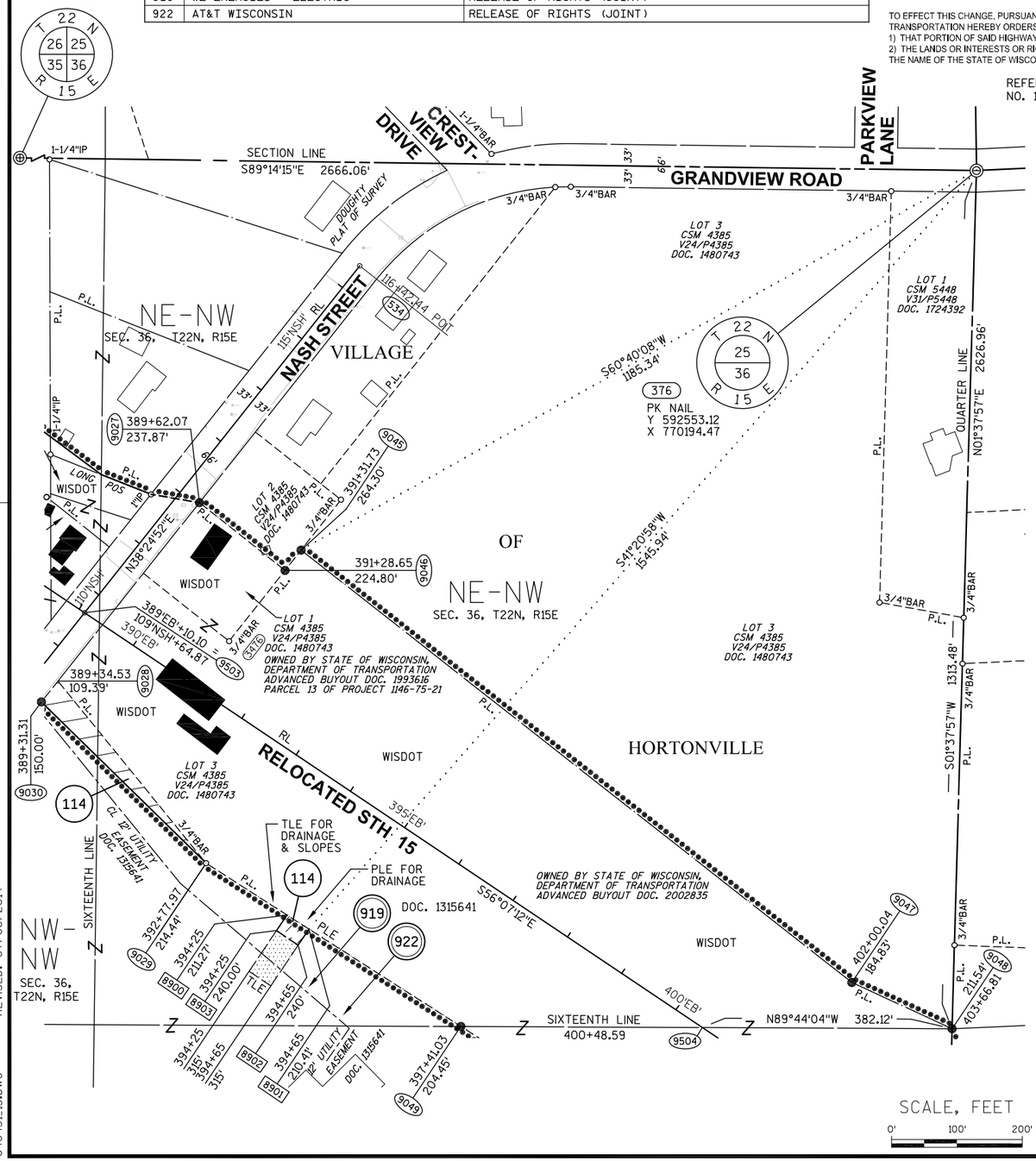
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW	ACRES REQUIRED EXISTING	TOTAL	PLE ACRES PERM.	TLE ACRES TEMP.
114	THE SCHOOL DISTRICT OF HORTONVILLE	FEE, PLE, TLE	0.164	0	0.164	0.027	0.069

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS (JOINT)
922	AT&T WISCONSIN	RELEASE OF RIGHTS (JOINT)



BASIS OF EXISTING HIGHWAY R/W

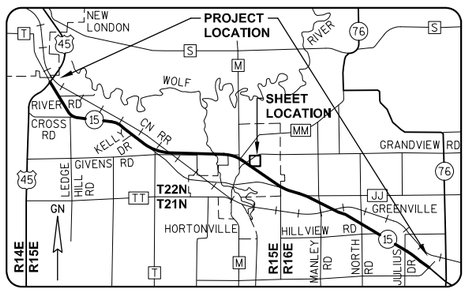
ROUTE	BASIS	YEAR
NASH ST.	ADJOINING CERTIFIED SURVEY MAPS	VARIES
	ADJOINING PLAT OF SURVEYS	VARIES
	WILDWOOD VILLAGE SUBDIVISION PLAT	1977

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
376	9045	S60°40'08"W	1185.34'
9045	9047	S51°51'57"E	1071.26'
9047	9048	S65°13'06"E	168.90'
9048	9049	N89°44'04"W	751.43'
9049	9029	N57°21'23"W	463.17'
9029	9030	N45°35'21"W	352.60'
9030	9027	N38°24'52"E	389.08'
9027	9046	S51°38'12"E	167.09'
9046	9045	N38°20'42"E	39.62'
376	8901	S41°20'58"W	1545.94'
8901	8902	S33°52'48"W	29.59'
8902	8903	N56°07'12"W	40.00'
8903	8900	N33°52'48"E	28.73'
8900	8901	S57°21'23"E	40.01'

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
534	592407.500	769250.755
9503	591876.599	768829.749
9504	591241.945	769774.929



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.31, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 7/08/2014 DAVID L. ROBERTS RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 7/09/2014 CURT VAN EREM REAL ESTATE SUPERVISOR

WISCONSIN DAVID L. ROBERTS S-1725 STEVENS POINT WI LAND SURVEYOR

040431_15.DWG REVISED: 07/08/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.32

PART OF THE SE1/4-NW1/4 OF SECTION 36, T22N, R15E, IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

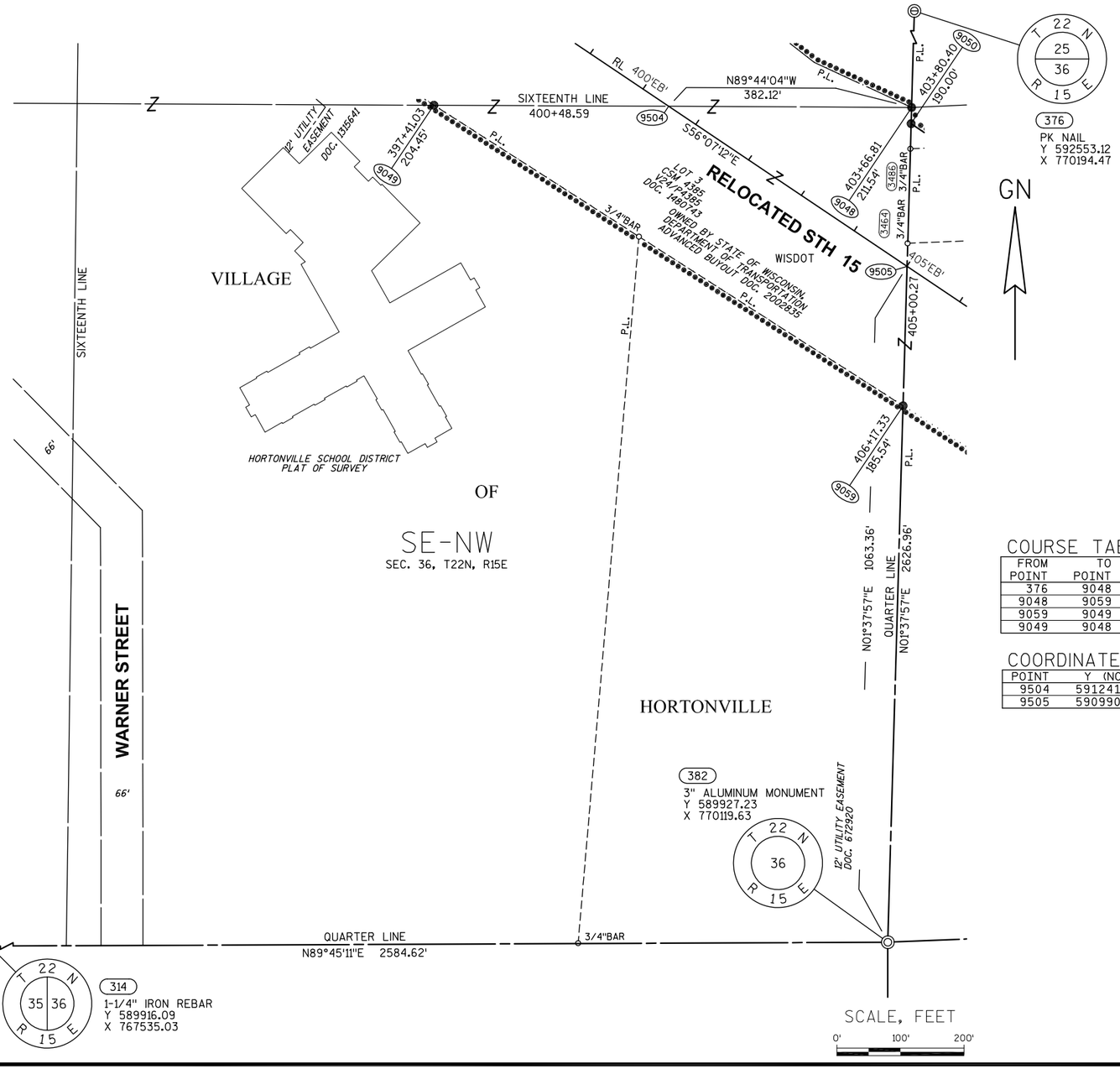
THE STATE OF WISCONSIN HAS DEEMED IT NECESSARY TO MONUMENT RIGHT-OF-WAY INTERESTS PREVIOUSLY ACQUIRED UNDER SECTIONS 82.01, 82.31(1), 82.31(2), AND 84.09 OF THE WISCONSIN STATE STATUTES AND DOES HEREBY CERTIFY THE DEPARTMENT OF TRANSPORTATION HAS SURVEYED THE HIGHWAY RIGHT-OF-WAY; THAT THIS PLAT IS A TRUE AND CORRECT REPRESENTATION OF THE EXTERIOR BOUNDARIES OF THE LAND SURVEYED AND SHOWS ACCURATE MEASUREMENTS THEREOF.

Document #: **2019925**
Date: **07-15-2014** Time: **08:30 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.32
AMENDMENT NO:

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.



REVISED: 07/08/2014

040432.15.DWG

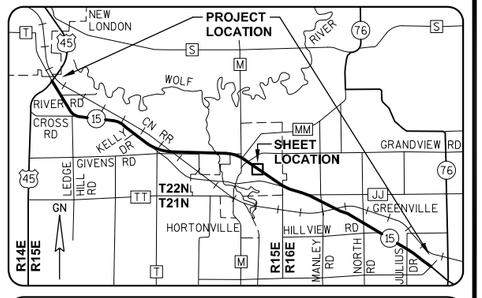
APPRAISAL PLAT DATE:

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
376	9048	S01°37'57"W	1313.48'
9048	9059	S01°37'57"W	469.50'
9059	9049	N57°21'23"W	876.50'
9049	9048	S89°44'04"E	751.43'

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
9504	591241.945	769774.929
9505	590990.152	770149.921



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point - Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.32, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 7/08/2014 DAVID L. ROBERTS RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 7/09/2014 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT
WI
LAND SURVEYOR

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.33

PART OF LOT 2 AND OUTLOT 1 OF CSM 4387, AND PART OF THE SW1/4-NE1/4 AND THE NW1/4-SE1/4 OF SECTION 36, T22N, R15E, ALL IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT *2016623 FOR ADDITIONAL INFORMATION.

Document #: **2019926**
Date: **07-15-2014** Time: **08:31 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

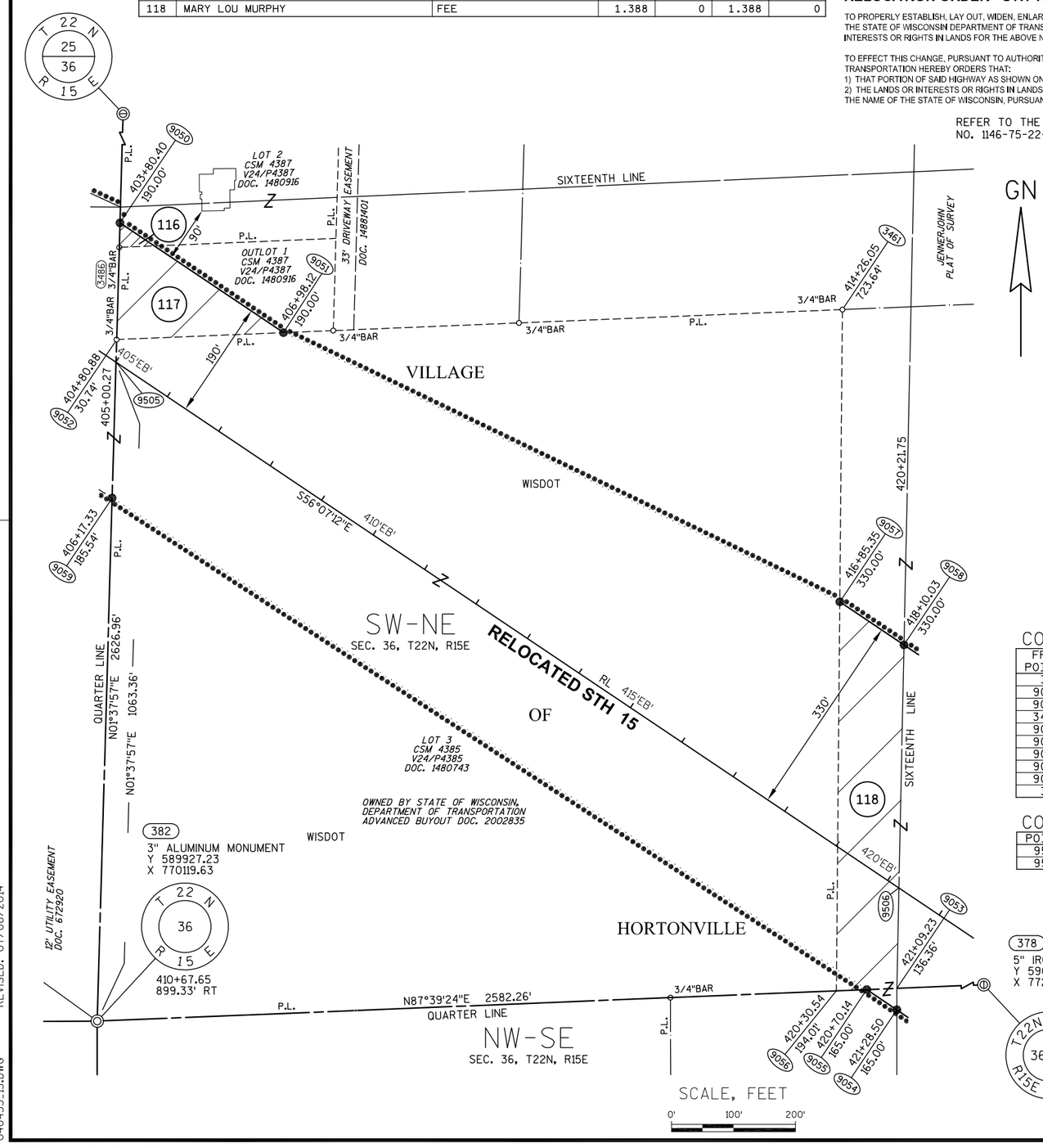
SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.33
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
116	DARIN & MICHELLE DODD	FEE	0.026	0	0.026	0
117	MARY LOU MURPHY	FEE	0.555	0	0.555	0
118	MARY LOU MURPHY	FEE	1.388	0	1.388	0

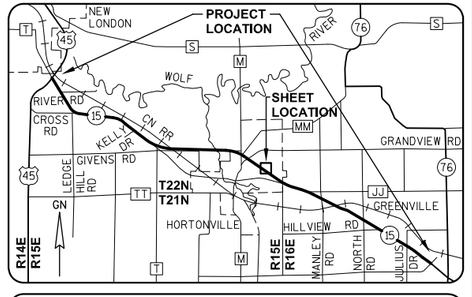


COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
376	9050	S01°37'57"W	1338.95'
9050	9051	S56°07'12"E	317.72'
9051	3461	N87°38'06"E	902.57'
3461	9057	S00°30'19"W	471.37'
9057	9058	S56°07'12"E	124.67'
9058	9053	S01°11'48"W	554.09'
9053	9054	S00°03'19"E	34.52'
9054	9055	N56°07'12"W	58.37'
9055	382	S87°39'24"W	1242.67'
382	9050	N01°37'57"E	1288.01'

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
9505	590990.152	770149.921
9506	590142.000	771413.060



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.33, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 7/08/2014 DAVID L. ROBERTS
RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 7/09/2014 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT
WI
LAND SURVEYOR

040433_15.DWG REVISED: 07/08/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.34 AMENDMENT NO: 1

AMENDS PARCEL 119 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.34, RECORDED AS DOCUMENT #2019927. PART OF THE SE1/4-NE1/4 AND THE NE1/4-SE1/4 OF SECTION 36, T22N, R15E, ALL IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: **2035595**
Date: **02-06-2015** Time: **09:16 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP, REGISTER OF DEEDS
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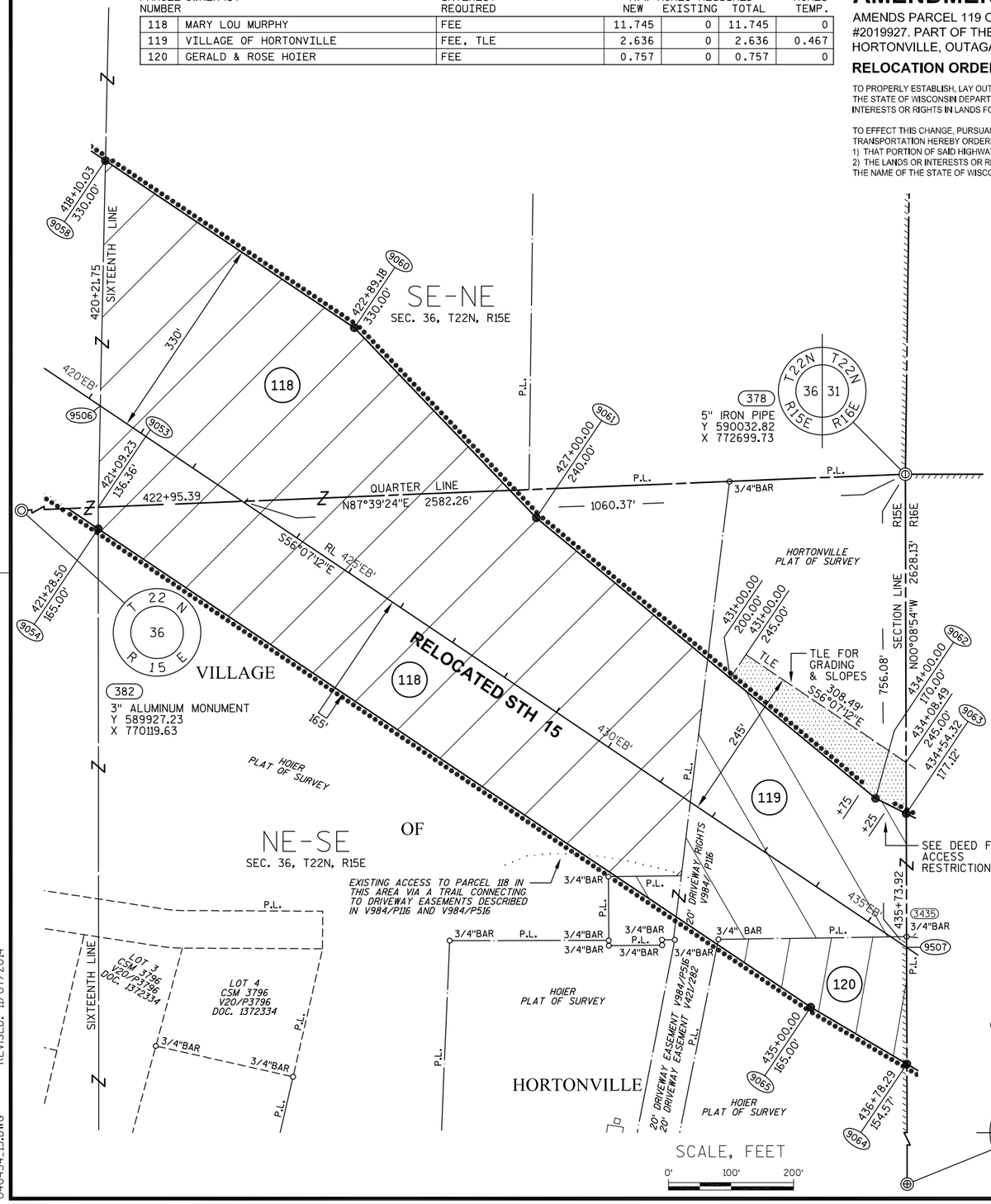
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.34
AMENDMENT NO: 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT *2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
118	MARY LOU MURPHY	FEE	11.745	0	11.745	0
119	VILLAGE OF HORTONVILLE	FEE, TLE	2.636	0	2.636	0.467
120	GERALD & ROSE HOIER	FEE	0.757	0	0.757	0

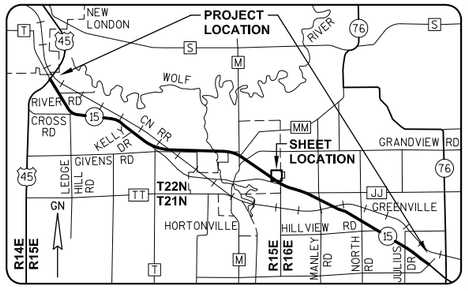


COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
378	9063	S00°08'54"E	542.37'
9063	9064	S00°08'54"E	400.22'
9064	9065	N59°28'01"W	178.59'
9065	9054	N56°07'12"W	1371.50'
9054	9053	N00°03'19"W	34.52'
9053	9058	N01°11'48"E	554.09'
9058	9060	S56°07'12"E	479.15'
9060	9061	S43°45'48"E	420.57'
9061	9062	S50°24'34"E	703.49'
9062	9063	S63°34'56"E	54.79'

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
9506	590142.000	771413.060
9507	589276.735	772701.685



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.34, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 11/07/2014 DAVID L. ROBERTS
RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 2/4/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT
WI
LAND SURVEYOR

040434_15.DWG REVISED: 11/07/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.34

PART OF THE SE1/4-NE1/4 AND THE NE1/4-SE1/4 OF SECTION 36, T22N, R15E, ALL IN THE VILLAGE OF HORTONVILLE, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

Document #: **2019927**
Date: **07-15-2014** Time: **08:33 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

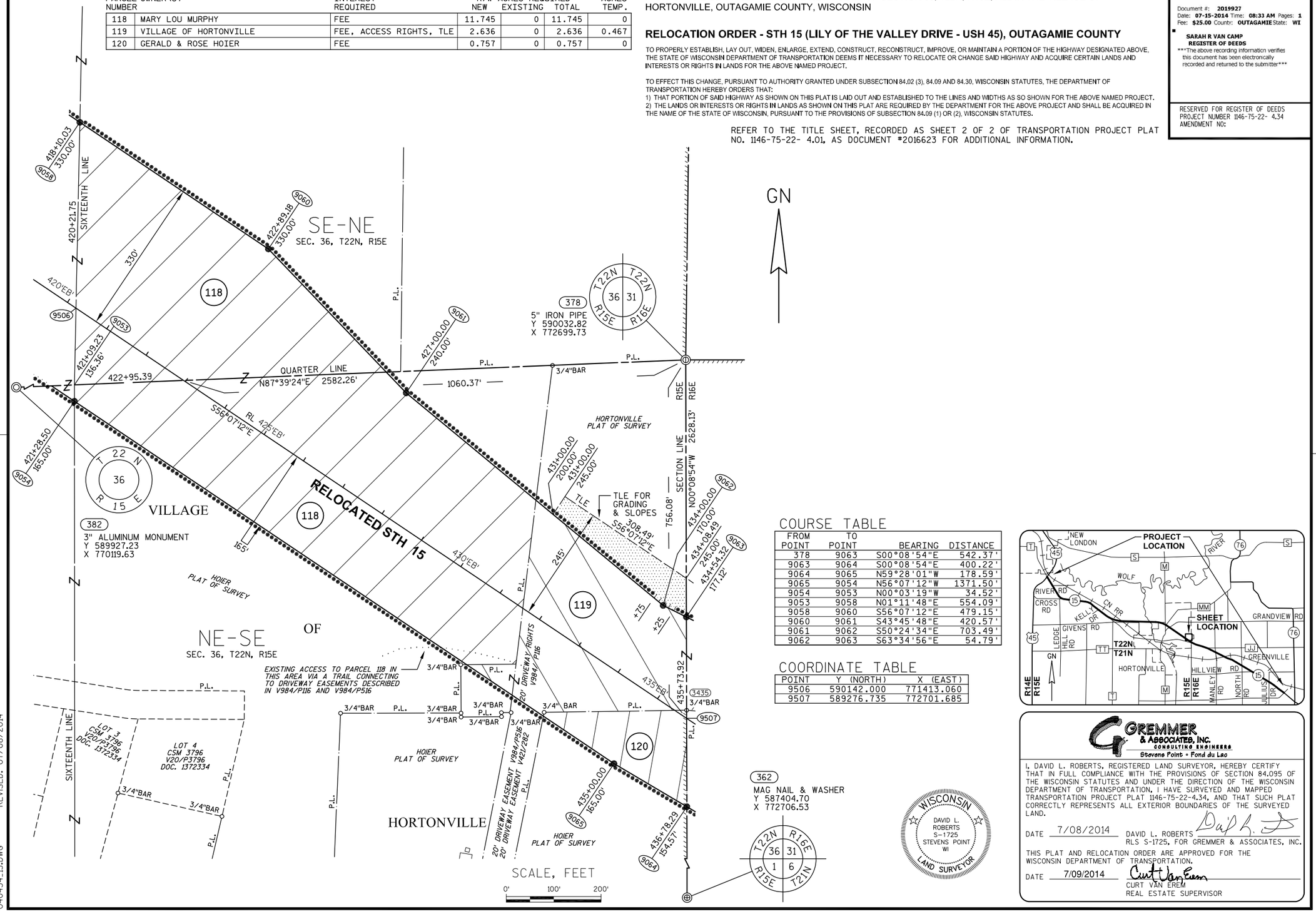
SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.34
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
118	MARY LOU MURPHY	FEE	11.745	0	11.745	0
119	VILLAGE OF HORTONVILLE	FEE, ACCESS RIGHTS, TLE	2.636	0	2.636	0.467
120	GERALD & ROSE HOIER	FEE	0.757	0	0.757	0



COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
378	9063	S00°08'54"E	542.37'
9063	9064	S00°08'54"E	400.22'
9064	9065	N59°28'01"W	178.59'
9065	9054	N56°07'12"W	1371.50'
9054	9053	N00°03'19"W	34.52'
9053	9058	N01°11'48"E	554.09'
9058	9060	S56°07'12"E	479.15'
9060	9061	S43°45'48"E	420.57'
9061	9062	S50°24'34"E	703.49'
9062	9063	S63°34'56"E	54.79'

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
9506	590142.000	771413.060
9507	589276.735	772701.685

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.34, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 7/08/2014 DAVID L. ROBERTS
RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 7/09/2014 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT WI
LAND SURVEYOR

040434_15.DWG REVISED: 07/08/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.35 AMENDMENT NO. 1

AMENDS PARCEL 124 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.35 RECORDED AS DOCUMENT NO. 2019928. PART OF LOTS 1 AND 2 OF CSM 5287, AND PART OF THE FRACTIONAL NW1/4-SW1/4 AND THE FRACTIONAL SW1/4-SW1/4 OF SECTION 31, T22N, R16E, IN THE TOWN OF ELLINGTON; AND PART OF THE FRACTIONAL NW1/4-SW1/4 OF SECTION 31, T22N, R16E IN THE VILLAGE OF HORTONVILLE; ALL IN OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

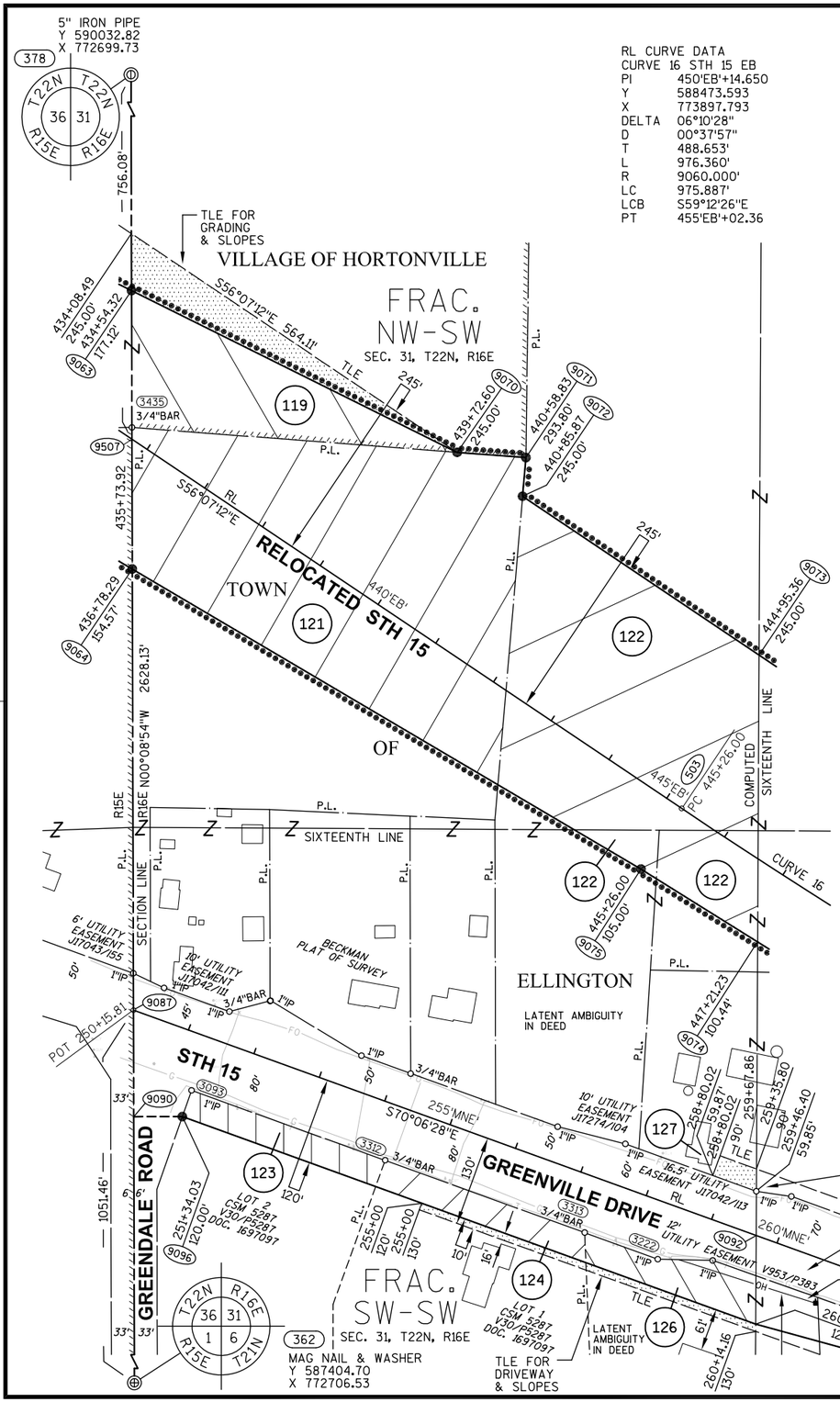
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: **2046215**
Date: **06-16-2015** Time: **10:27 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.35
AMENDMENT NO: 1



RL CURVE DATA
CURVE 16 STH 15 EB

PI	450°EB'+14.650
Y	588473.593
X	773897.793
DELTA	06°10'28"
D	00°37'57"
T	488.653'
L	976.360'
R	9060.000'
LC	975.887'
LCB	S59°12'26"E
PT	455°EB'+02.36

GN

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
119	VILLAGE OF HORTONVILLE	FEE, TLE	1.056	0	1.056	0.440
121	ALVIN H. LEMKE	FEE	4.302	0	4.302	0
122	ARNOLD J. & MARY S. WEYERS	FEE	3.469	0	3.469	0
123	PATRICK & DAWN McNICHOLS	FEE	0.271	0	0.271	0
124	COMMUNITY FIRST CREDIT UNION	FEE, TLE	0.287	0	0.287	0.058
126	DON E. PARKER	FEE, TLE	0.301	0	0.301	0.060
127	ALVIN H. LEMKE JR.	TLE	0	0	0	0.042

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
378	9063	S00°08'54"E	542.37'
9063	9070	S63°34'56"E	522.70'
9070	9071	S85°37'34"E	99.08'
9071	9072	S04°53'22"W	55.79'
9072	9073	S56°07'12"E	409.49'
9073	9074	S00°17'18"W	412.14'
9074	9075	N58°03'36"W	197.50'
9075	9064	N59°28'01"W	849.16'
9064	9063	N00°08'54"W	400.22'

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
362	9090	N00°08'54"W	898.21'
9090	9087	N00°08'54"W	153.25'
9087	9092	S70°06'27"E	952.04'
9092	9093	S00°17'18"W	127.38'
9093	9096	N70°06'28"W	876.56'
9096	9090	S89°51'06"W	69.94'

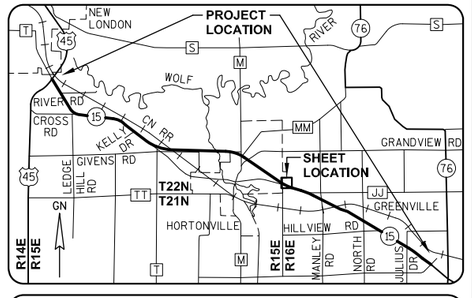
BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15	TPP 6430-06-00-4.10	2011
GREENVILLE RD.	TPP 6430-06-00-4.10	2011

EXISTING ACCESS CONTROL: PROJECT 1146-01-21

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
503	588745.994	773492.109
9087	588456.149	772703.811
9092	588132.213	773599.050
9507	589276.735	772701.685



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.35, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 5/01/2015 DAVID L. ROBERTS
PLS S-1725, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 6/11/2015 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT
WI
LAND SURVEYOR

040435_15.DWG REVISED: 05/01/2015

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.35

PART OF LOTS 1 AND 2 OF CSM 5287, AND PART OF THE FRACTIONAL NW1/4-SW1/4 AND THE FRACTIONAL SW1/4-SW1/4 OF SECTION 31, T22N, R16E, IN THE TOWN OF ELLINGTON; AND PART OF THE FRACTIONAL NW1/4-SW1/4 OF SECTION 31, T22N, R16E IN THE VILLAGE OF HORTONVILLE; ALL IN OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: **2019928**
Date: **07-15-2014** Time: **08:34 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.35
AMENDMENT NO:

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

GN

5" IRON PIPE
Y 590032.82
X 772699.73

RL CURVE DATA
CURVE 16 STH 15 EB
PI 450'EB'+14.650
Y 588473.593
X 773897.793
DELTA 06°10'28"
D 00°37'57"
T 488.653'
L 976.360'
R 9060.000'
LC 975.887'
LCB S59°12'26"E
PT 455'EB'+02.36

VILLAGE OF HORTONVILLE
FRAC. NW-SW
SEC. 31, T22N, R16E
TOWN OF ELLINGTON
FRAC. SW-SW
SEC. 31, T22N, R16E
SECTION LINE
SIXTEENTH LINE
COMPUTED SIXTEENTH LINE
CURVE 16
RELOCATED STH 15
STH 15
GREENVILLE DRIVE
GREENDALE ROAD
BECKMAN PLAT OF SURVEY
LATENT AMBIGUITY IN DEED
MAG NAIL & WASHER
Y 587404.70
X 772706.53
POT 250+15.81
TLE FOR GRADING & SLOPES
TLE FOR DRIVEWAY & SLOPES
J17042/I 13
(16.5' UTILITY EASEMENT ALONG EXISTING R/W LINE) V953/P383
(12' UTILITY EASEMENT ALONG EXISTING R/W LINE)
NO RECORDS
SCALE, FEET
0' 100' 200'

AFFIDAVIT DOC NO 2022510
AFFIDAVIT DOC NO 2022511

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
119	VILLAGE OF HORTONVILLE	FEE, TLE	1.056	0	1.056	0.440
121	ALVIN H. LEMKE	FEE	4.302	0	4.302	0
122	ARNOLD J. & MARY S. WEYERS	FEE	3.469	0	3.469	0
123	PATRICK & DAWN MCNICHOLS	FEE	0.271	0	0.271	0
124	DENNIS H. ZEMPLE & LOIS ZEMPLE COMMUNITY FIRST CREDIT UNION	FEE, TLE	0.287	0	0.287	0.058
126	DON E. PARKER	FEE, TLE	0.301	0	0.301	0.060
127	ALVIN H. LEMKE JR.	TLE	0	0	0	0.042

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
378	9063	S00°08'54"E	542.37'
9063	9070	S63°34'56"E	522.70'
9070	9071	S85°37'34"E	99.08'
9071	9072	S04°53'22"W	55.79'
9072	9073	S56°07'12"E	409.49'
9073	9074	S00°17'18"W	412.14'
9074	9075	N58°03'36"W	197.50'
9075	9064	N59°28'01"W	849.16'
9064	9063	N00°08'54"W	400.22'

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
362	9090	N00°08'54"W	898.21'
9090	9087	N00°08'54"W	153.25'
9087	9092	S70°06'27"E	952.04'
9092	9093	S00°17'18"W	127.38'
9093	9096	N70°06'28"W	876.56'
9096	9090	S89°51'06"W	69.94'

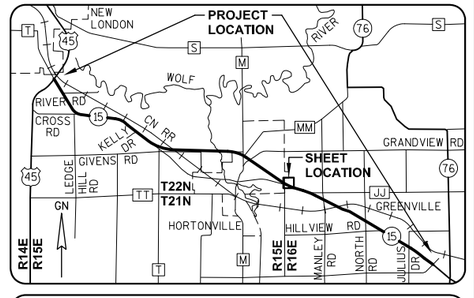
BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15	TPP 6430-06-00-4.10	2011
GREENVILLE RD.	TPP 6430-06-00-4.10	2011

EXISTING ACCESS CONTROL: PROJECT 1146-01-21

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
503	588745.994	773492.109
9087	588456.149	772703.811
9092	588132.213	773599.050
9507	589276.735	772701.685



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.35, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 7/08/2014 DAVID L. ROBERTS
RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 7/09/2014 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT
WI
LAND SURVEYOR

040435_15.DWG REVISED: 07/08/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.36
AMENDMENT NO: 2

AMENDS PARCELS 129 AND 131 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.36, RECORDED AS DOCUMENT #2019929, PART OF THE NE1/4-SW1/4 AND THE SE1/4-SW1/4 OF SECTION 31, T22N, R16E, ALL IN THE TOWN OF ELLINGTON, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

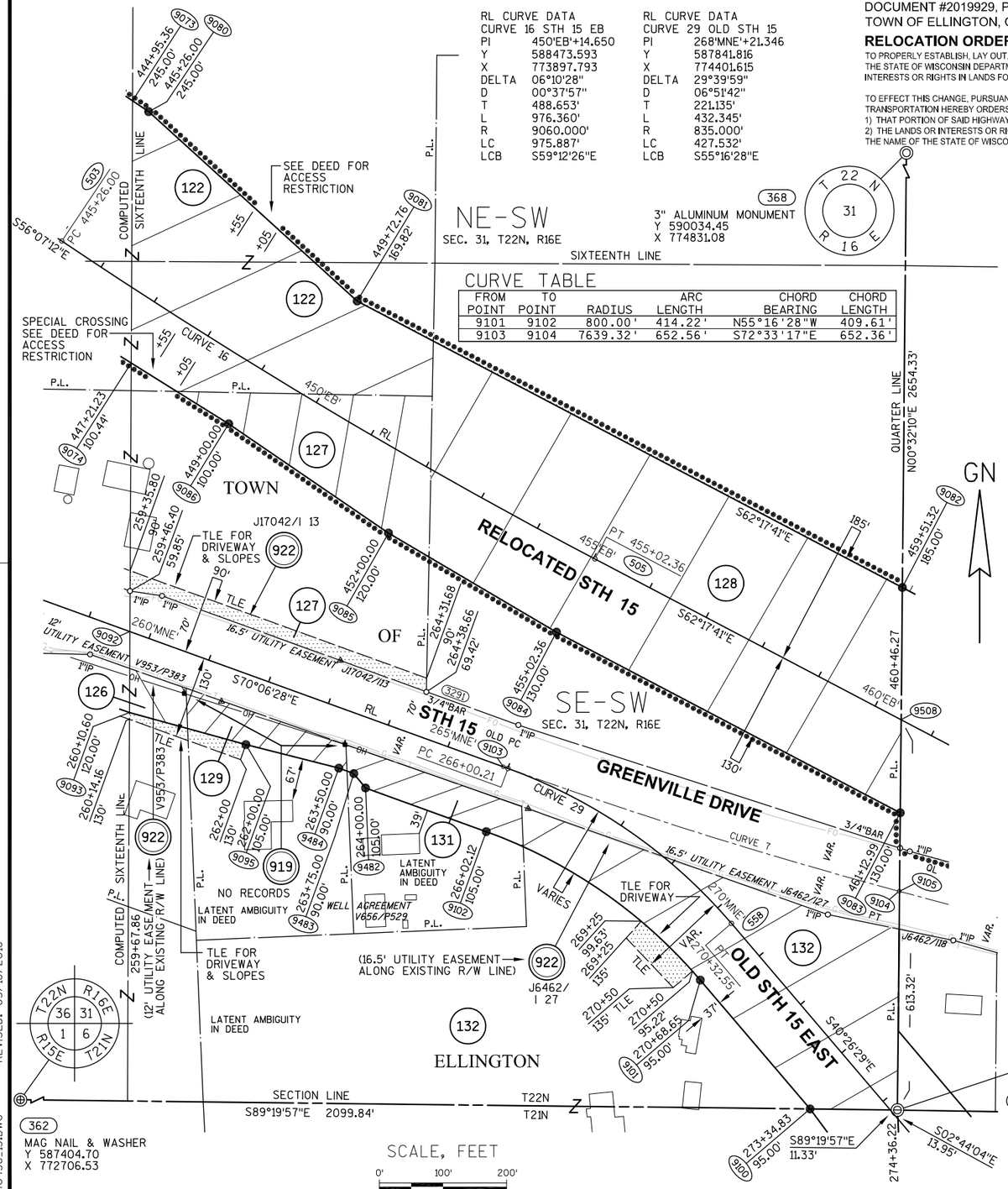
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: **2075773**
Date: **06-22-2016** Time: **07:53 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
This document has been electronically recorded and returned to:
WiDotNeRegionGreenbay

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.36
AMENDMENT NO: 2



REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
122	ARNOLD J. & MARY S. WEYERS	FEE	2.765	0	2.765	0
126	DON E. PARKER	FEE, TLE	0.137	0	0.137	0.031
127	ALVIN H. LEMKE JR.	FEE, TLE	1.170	0	1.170	0.237
128	JOAN M. JOSSART SURVIVOR'S TRUST	FEE	6.009	0	6.009	0
129	DOUGLAS J. & BRENDA K. SCHWOBE	FEE, TLE	0.299	0	0.299	0.045
131	KENNETH R. & THOMAS L. WYNBOOM	FEE	0.364	0	0.364	0
132	RUTH M. YOUNG	FEE, TLE	2.573	0	2.573	0.098

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

COORDINATE TABLE

POINT	Y (NORTH)	X (EAST)
503	588745.994	773492.109
505	588246.406	774330.421
558	587673.516	774545.058
9092	588132.213	773599.050
9508	587993.527	774811.975

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
364	9083	N00°32'10"E	467.20'
9083	9084	N62°17'41"W	610.63'
9084	9085	N59°28'13"W	306.68'
9085	9086	N55°39'57"W	304.29'
9086	9074	N58°03'36"W	180.74'
9074	9073	N00°17'18"E	412.14'
9073	9080	S56°07'12"E	30.64'
9080	9081	S47°45'45"E	442.91'
9081	9082	S62°17'41"E	968.34'
9082	9083	S00°32'10"W	354.07'

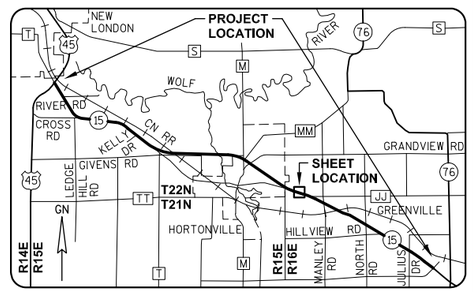
COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
364	9100	N89°19'57"W	137.41'
9100	9101	N40°26'29"W	266.18'
9102	9482	N70°06'28"W	201.88'
9482	9483	N39°08'38"W	29.15'
9483	9484	N70°06'28"W	25.00'
9484	9095	N75°49'06"W	150.75'
9095	9093	N74°38'09"W	190.00'
9093	9092	N00°17'18"E	127.38'
9092	9103	S70°06'28"E	624.79'
9104	9105	S75°00'07"E	0.55'
9105	364	S00°32'10"W	343.69'

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15	TPP 6430-06-00-4.10	2011

EXISTING ACCESS CONTROL: PROJECT 1146-01-21



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.36, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 05/16/2016 DAVID L. ROBERTS
RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 06/21/2016 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN DAVID L. ROBERTS S-1725 STEVENS POINT WI LAND SURVEYOR

REVISED: 05/16/2016

040436_15.DWG

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.36
AMENDMENT NO: 1

AMENDS PARCELS 122 AND 127 OF TRANSPORTATION PROJECT PLAT 1146-75-22-4.36, RECORDED AS DOCUMENT #2019929, PART OF THE NE1/4-SW1/4 AND THE SE1/4-SW1/4 OF SECTION 31, T22N, R16E, ALL IN THE TOWN OF ELLINGTON, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

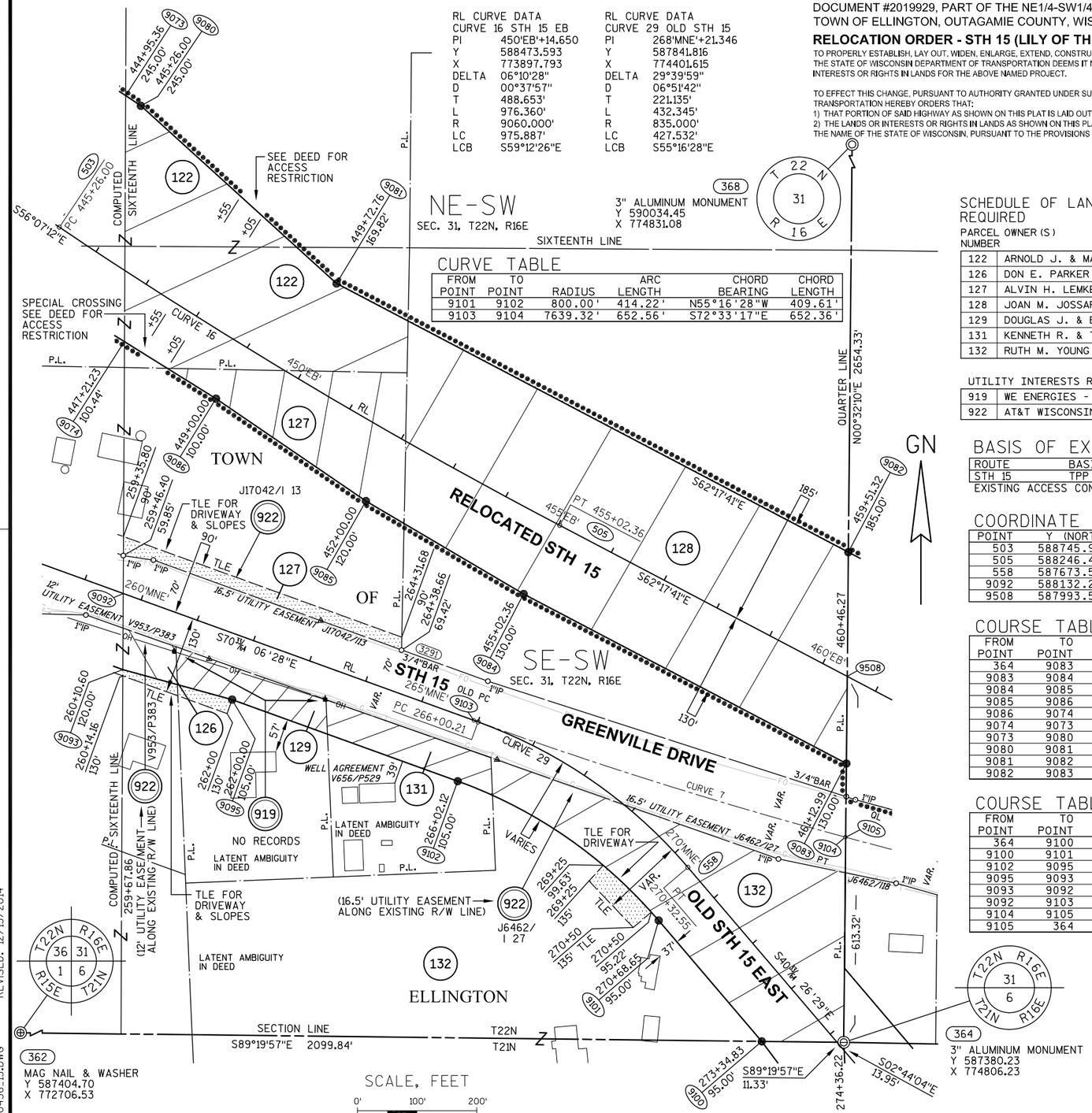
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: **2035596**
Date: **02-06-2015** Time: **09:17 AM**
Pages: **1** Fee: **$25.00**
County: **OUTAGAMIE COUNTY** State: **WI**

SARAH R VAN CAMP , REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.36
AMENDMENT NO: 1



CURVE TABLE					
FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
9101	9102	800.00'	414.22'	N55°16'28"W	409.61'
9103	9104	7639.32'	652.56'	S72°33'17"E	652.36'

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
122	ARNOLD J. & MARY S. WEYERS	FEE	2.765	0	2.765	0
126	DON E. PARKER	FEE, TLE	0.137	0	0.137	0.031
127	ALVIN H. LEMKE JR.	FEE, TLE	1.170	0	1.170	0.237
128	JOAN M. JOSSART SURVIVOR'S TRUST	FEE	6.009	0	6.009	0
129	DOUGLAS J. & BRENDA K. SCHWOBE	FEE, TLE	0.330	0	0.330	0.045
131	KENNETH R. & THOMAS L. WYNBOOM	FEE	0.371	0	0.371	0
132	RUTH M. YOUNG	FEE, TLE	2.573	0	2.573	0.098

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15	TPP 6430-06-00-4.10	2011

EXISTING ACCESS CONTROL: PROJECT 1146-01-21

COORDINATE TABLE

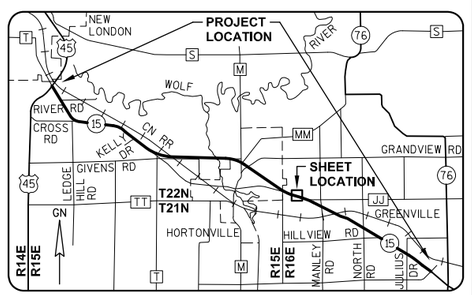
POINT	Y (NORTH)	X (EAST)
503	588745.994	773492.109
505	588246.406	774330.421
558	587673.516	774545.058
9092	588132.213	773599.050
9508	587993.527	774811.975

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
364	9083	N00°32'10"E	467.20'
9083	9084	N62°17'41"W	610.63'
9084	9085	N59°28'13"W	306.68'
9085	9086	N55°39'57"W	304.29'
9086	9074	N58°03'36"W	180.74'
9074	9073	N00°17'18"E	412.14'
9073	9080	S56°07'12"E	30.64'
9080	9081	S47°45'45"E	442.91'
9081	9082	S62°17'41"E	968.34'
9082	9083	S00°32'10"W	354.07'

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
364	9100	N89°19'57"W	137.41'
9100	9101	N40°26'29"W	266.18'
9102	9095	N70°06'28"W	401.88'
9095	9093	N74°38'09"W	190.00'
9093	9092	N00°17'18"E	127.38'
9092	9103	S70°06'28"E	624.79'
9104	9105	S75°00'07"E	0.55'
9105	364	S00°32'10"W	343.69'



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.36, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 12/13/2014 DAVID L. ROBERTS RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 2/4/2015 CURT VAN EREM REAL ESTATE SUPERVISOR

WISCONSIN DAVID L. ROBERTS S-1725 STEVENS POINT WI LAND SURVEYOR

040436_15.DWG REVISED: 12/13/2014

APPRAISAL PLAT DATE:

TRANSPORTATION PROJECT PLAT NO: 1146-75-22 - 4.36

PART OF THE NE1/4-SW1/4 AND THE SE1/4-SW1/4 OF SECTION 31, T22N, R16E, ALL IN THE TOWN OF ELLINGTON, OUTAGAMIE COUNTY, WISCONSIN

RELOCATION ORDER - STH 15 (LILY OF THE VALLEY DRIVE - USH 45), OUTAGAMIE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1) THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2) THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: **2019929**
Date: **07-15-2014** Time: **08:36 AM** Pages: **1**
Fee: **$25.00** County: **OUTAGAMIE** State: **WI**

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1146-75-22- 4.36
AMENDMENT NO:

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLAT NO. 1146-75-22- 4.01, AS DOCUMENT #2016623 FOR ADDITIONAL INFORMATION.

RL CURVE DATA CURVE 16 STH 15 EB		RL CURVE DATA CURVE 29 OLD STH 15	
PI	450'EB'+14.650	PI	268'MNE'+21.346
Y	588473.593	Y	587841.816
X	773897.793	X	774401.615
DELTA	06°10'28"	DELTA	29°39'59"
D	00°37'57"	D	06°51'42"
T	488.653'	T	221.135'
L	976.360'	L	432.345'
R	9060.000'	R	835.000'
LC	975.887'	LC	427.532'
LCB	S59°12'26"E	LCB	S55°16'28"E

NE-SW
SEC. 31, T22N, R16E

368
3" ALUMINUM MONUMENT
Y 590034.45
X 774831.08

T 22 N
31
R 16 E

SE-SW
SEC. 31, T22N, R16E

CURVE TABLE

FROM POINT	TO POINT	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
9101	9102	800.00'	414.22'	N55°16'28"W	409.61'
9103	9104	7639.32'	652.56'	S72°33'17"E	652.36'

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES TEMP.
122	ARNOLD J. & MARY S. WEYERS	FEE, ACCESS RIGHTS	2.765	0	2.765	0
126	DON E. PARKER	FEE, TLE	0.137	0	0.137	0.031
127	ALVIN H. LEMKE JR.	FEE, ACCESS RIGHTS, TLE	1.170	0	1.170	0.237
128	JOAN M. JOSSART SURVIVOR'S TRUST	FEE	6.009	0	6.009	0
129	DOUGLAS J. & BRENDA K. SCHWOBE	FEE, TLE	0.330	0	0.330	0.045
131	KENNETH R. & THOMAS L. WYNBOOM	FEE	0.371	0	0.371	0
132	RUTH M. YOUNG	FEE, TLE	2.573	0	2.573	0.098

UTILITY INTERESTS REQUIRED:

919	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
922	AT&T WISCONSIN	RELEASE OF RIGHTS

BASIS OF EXISTING HIGHWAY R/W

ROUTE	BASIS	YEAR
STH 15	TPP 6430-06-00-4.10	2011

EXISTING ACCESS CONTROL: PROJECT 1146-01-21

COORDINATE TABLE

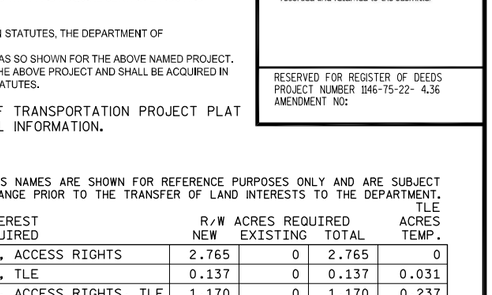
POINT	Y (NORTH)	X (EAST)
503	588745.994	773492.109
505	588246.406	774330.421
558	587673.516	774545.058
9092	588132.213	773599.050
9508	587993.527	774811.975

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
364	9083	N00°32'10"E	467.20'
9083	9084	N62°17'41"W	610.63'
9084	9085	N59°28'13"W	306.68'
9085	9086	N55°39'57"W	304.29'
9086	9074	N58°03'36"W	180.74'
9074	9073	N00°17'18"E	412.14'
9073	9080	S56°07'12"E	30.64'
9080	9081	S47°45'45"E	442.91'
9081	9082	S62°17'41"E	968.34'
9082	9083	S00°32'10"W	354.07'

COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
364	9100	N89°19'57"W	137.41'
9100	9101	N40°26'29"W	266.18'
9102	9095	N70°06'28"W	401.88'
9095	9093	N74°38'09"W	190.00'
9093	9092	N00°17'18"E	127.38'
9092	9103	S70°06'28"E	624.79'
9104	9105	S75°00'07"E	0.55'
9105	364	S00°32'10"W	343.69'



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, DAVID L. ROBERTS, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1146-75-22-4.36, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 7/08/2014 DAVID L. ROBERTS RLS S-1725, FOR GREMMER & ASSOCIATES, INC.

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE 7/09/2014 CURT VAN EREM
REAL ESTATE SUPERVISOR

WISCONSIN
DAVID L. ROBERTS
S-1725
STEVENS POINT
WI
LAND SURVEYOR

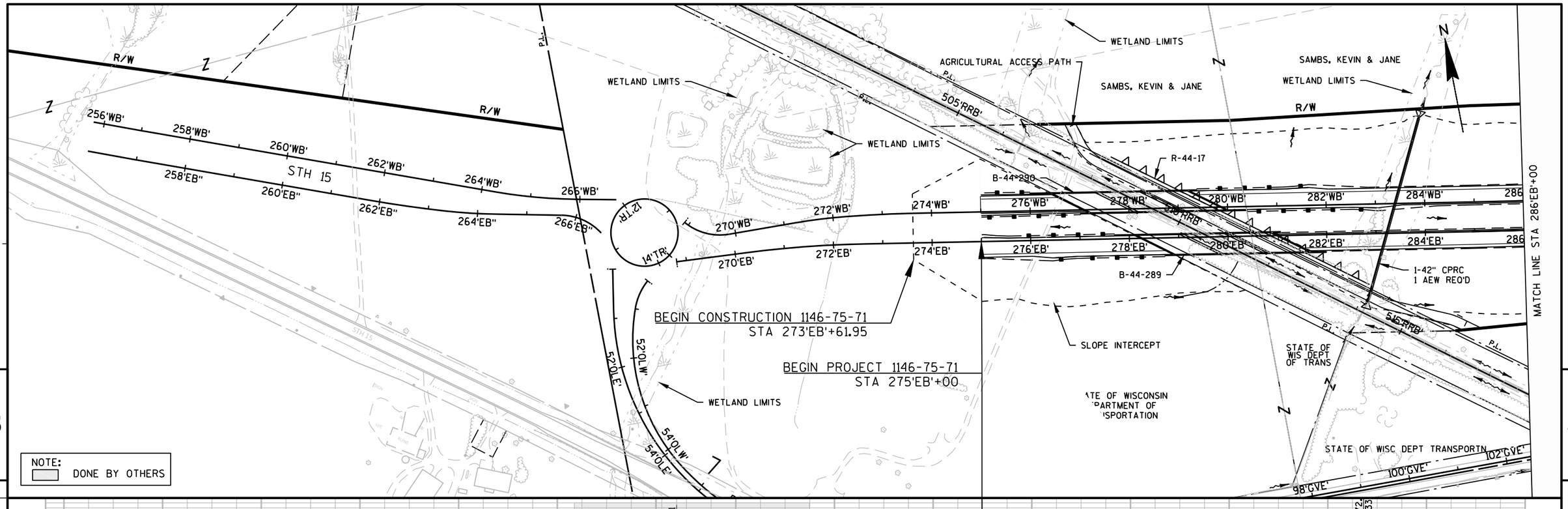
362
MAG NAIL & WASHER
Y 587404.70
X 772706.53

364
3" ALUMINUM MONUMENT
Y 587380.23
X 774806.23

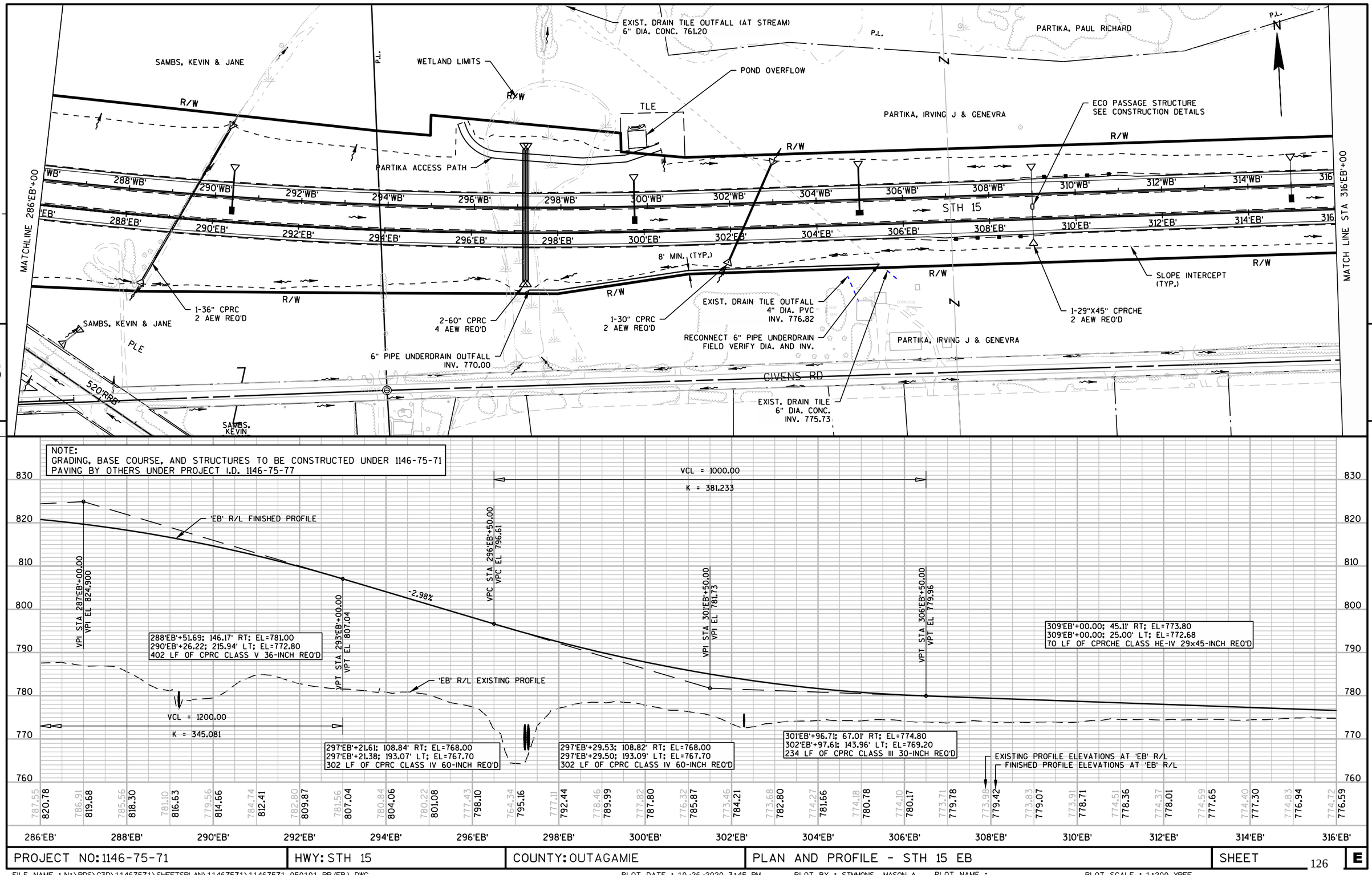
SCALE, FEET
0' 100' 200'

040436_15.DWG REVISED: 07/08/2014

APPRAISAL PLAT DATE:



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 EB	SHEET 125 E



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 EB	SHEET 126 E

MATCH LINE STA 316'EB'+00

MATCH LINE STA 346'EB'+00

5

5

PARTIKA, IRVING J & GENEVRA

SYKES, JAMES I & MARIANN D

PARKER, DON E & MARGARET E

N

R/W

B-44-296

B-44-295

STH 15

318'WB' 320'WB' 322'WB' 324'WB' 326'WB' 328'WB' 330'WB' 332'WB' 334'WB' 336'WB' 338'WB' 340'WB' 342'WB' 344'WB' 346

318'EB' 320'EB' 322'EB' 324'EB' 326'EB' 328'EB' 330'EB' 332'EB' 334'EB' 336'EB' 338'EB' 340'EB' 342'EB' 344'EB' 346

2-30" CPRC
1 MH 5J REQ'D
4 AEW REQ'D

EXIST. DRAIN TILE OUTFALL
6" DIA. STEEL
INV. 771.27
FIELD VERIFY DIA., INV., AND REMOVAL LIMITS
RECONNECT TO EXISTING

SLOPE INTERCEPT (TYP.)

2-30" CPRC
1 INL MEDIAN 1G REQ'D
4 AEW REQ'D

REMOVING OLD STRUCTURE OVER WATERWAY
WITH MINIMAL DEBRIS STA. 339+40
STRUCTURE CONTAINS ASBESTOS

BLACK OTTER CREEK

PROPOSED CREEK REALIGNMENT

WETLAND LIMITS (TYP)

NOTE:
GRADING, BASE COURSE, AND STRUCTURES TO BE CONSTRUCTED UNDER 1146-75-71
PAVING BY OTHERS UNDER PROJECT I.D. 1146-75-77

VCL = 500.00
K = 3490.124

VCL = 2400.00
K = 686.177

VPC STA 334'EB'+00.00
VPC EL 770.21

VPI STA 336'EB'+50.00
VPI EL 769.324

VPT STA 339'EB'+00.00
VPT EL 768.08

VPC STA 344'EB'+10.00
VPC EL 765.54

333'EB'+59.63; 73.65' RT; EL=759.10
333'EB'+55.89; 135.93' LT; EL=758.40
210 LF OF CPRC CLASS III 30-INCH REQ'D

333'EB'+53.63; 73.76' RT; EL=759.10
333'EB'+49.89; 135.79' LT; EL=758.40
210 LF OF CPRC CLASS III 30-INCH REQ'D

EXISTING 24" CPCM
TO BE REMOVED

-0.35%

-0.50%

'EB' R/L FINISHED PROFILE

'EB' R/L EXISTING PROFILE

MARSH EXCAVATION PROFILE

320'EB'+00.89; 46.80' RT; EL=769.80
319'EB'+94.32; 29.75' LT; EL=769.14
74 LF OF CPRC CLASS IV 30-INCH REQ'D

320'EB'+06.87; 46.32' RT; EL=769.80
319'EB'+93.00; 115.38' LT; EL=768.40
162 LF OF CPRC CLASS IV 30-INCH REQ'D

STA 339'EB'+39 TO STA 340'EB'+81
STRUCTURE B-44-295 REQ'D
HAUNCHED CONCRETE SPAN
40.00 FT CLEAR ROADWAY WIDTH
SKEW 5° RHF

EXISTING PROFILE ELEVATIONS AT 'EB' R/L
FINISHED PROFILE ELEVATIONS AT 'EB' R/L

800 790 780 770 760 750 740 730

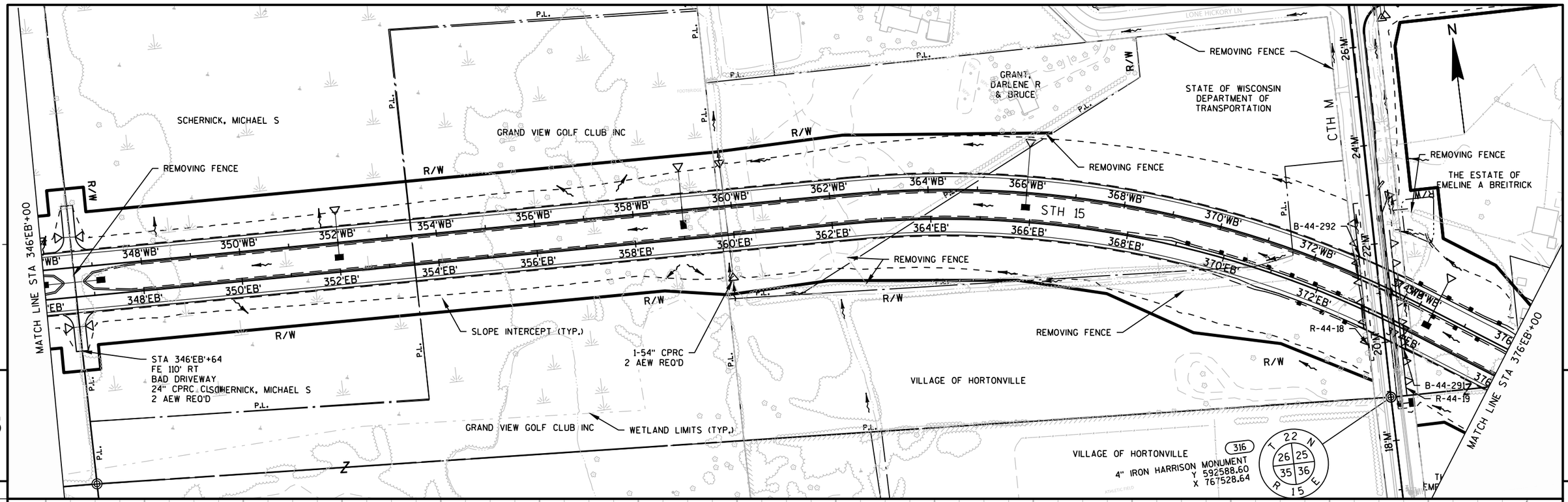
774.72 776.59 | 773.61 776.23 | 773.52 775.88 | 773.58 775.53 | 773.31 775.17 | 773.37 774.82 | 771.95 774.46 | 772.06 774.11 | 772.05 773.75 | 771.44 773.40 | 770.26 773.04 | 769.25 772.69 | 765.99 772.34 | 763.54 771.98 | 763.05 771.63 | 763.09 771.27 | 762.29 770.92 | 759.79 770.56 | 759.45 770.21 | 759.33 769.84 | 759.13 769.44 | 759.34 769.02 | 759.66 768.56 | 760.18 768.08 | 758.29 767.58 | 759.27 767.08 | 758.82 766.59 | 758.77 766.09 | 758.91 765.59 | 759.28 765.15 | 760.02 764.86

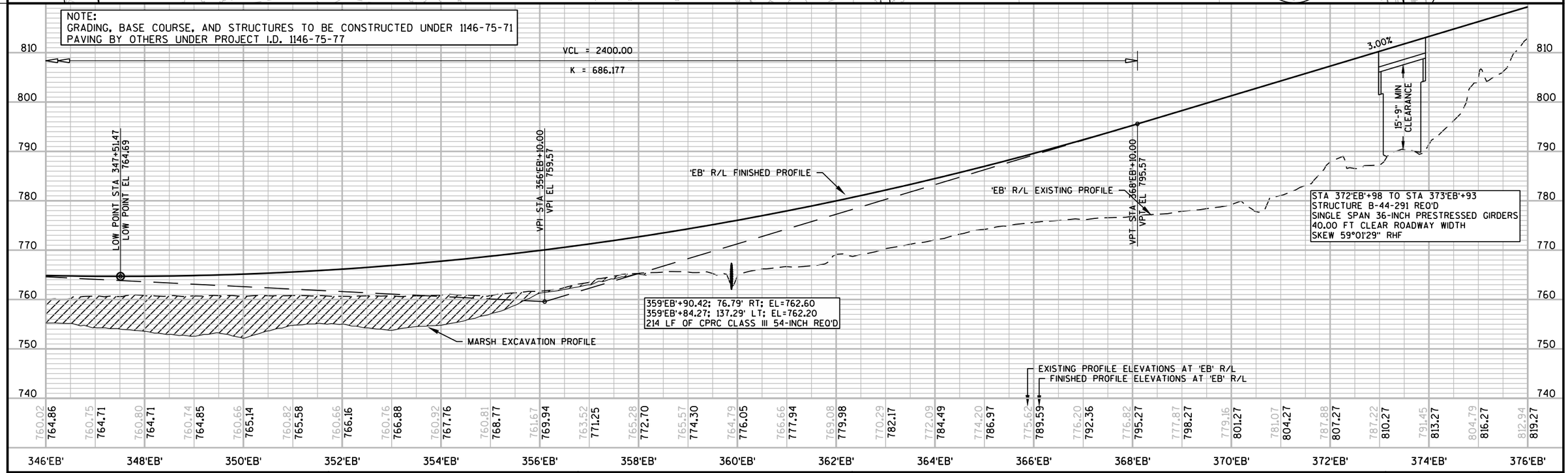
316'EB' 318'EB' 320'EB' 322'EB' 324'EB' 326'EB' 328'EB' 330'EB' 332'EB' 334'EB' 336'EB' 338'EB' 340'EB' 342'EB' 344'EB' 346'EB'

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 EB	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_050101_PP (EB).DWG
LAYOUT NAME - 050103-PP (EB)

PLOT DATE : 12/15/2020 4:16 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 200'_XREF





PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 EB	SHEET 128 E

MATCH LINE STA 376'EB'+00

MATCH LINE STA 406'EB'+00

5

5

HEYES, EDWARD K & LINDA F

OBLITERATE OLD ROAD

THE ESTATE OF EMELINE A BREITRICK

KLOEHN, JANICE R

KLITZKE, LARRY L & WF

MULROY, BARRY J

CAPTAIN, PAUL J

CAPTAIN, PAUL A

NASH HILLS LLC

DODD, DARIN & MICHEL

PROPOSED POND '387 LT'

B-44-294

R/W

BREITRICK, MARK

CAUTION

SARGENT, NICHOLAS D

HOIEN, DONALD & GERALDINE

REMOVING FENCE

1-36" CPRC
2 AEW REQ'D

STH 15

R-44-20

R-44-21
B-44-293

SLOPE INTERCEPT (TYP.)

PROPOSED POND '387 RT'

THE ESTATE OF EMELINE A BREITRICK

CREST ST

FINK, KEITH A

RIEHL, THOMAS R

POLACEK, ANTON & BRENDA SUE

BAKER, MARTIN M & JANICE M

JUSTMANN, DAVID A & LINDA D

TESSEN,

CLOSE, KENNETH L & DONNA J

NASH ST

1-36" CPRC
2 AEW REQ'D

1-24" CPRC
1 INLET 2G-MS REQ'D
1 AEW REQ'D

PROPOSED POND '394'

1-12" CPRC
2 AEW REQ'D

PROPOSED POND '402'

1-18" CPRC
1 INL MEDIAN 2G REQ'D
1 AEW REQ'D

HORTONVILLE SCHOOL DISTRICT

HOEWISCH, WALMER/MAX REV

376'WB' 378'WB' 380'WB' 382'WB' 384'WB' 386'WB' 388'WB' 390'WB' 392'WB' 394'WB' 396'WB' 398'WB' 400'WB' 402'WB' 404'WB' 406

376'EB' 378'EB' 380'EB' 382'EB' 384'EB' 386'EB' 388'EB' 390'EB' 392'EB' 394'EB' 396'EB' 398'EB' 400'EB' 402'EB' 404'EB' 406

VCL = 2000.00

K = 469.218

VCL = 1000.00

K = 408.080

NOTE:
GRADING, BASE COURSE, AND STRUCTURES TO BE CONSTRUCTED UNDER 1146-75-71
PAVING BY OTHERS UNDER PROJECT I.D. 1146-75-77

VPC STA 378'EB'+00.00
VPC EL 825.27

VPI STA 388'EB'+00.00
VPI EL 855.270

STA 388'EB'+63 TO STA 389'EB'+57
STRUCTURE B-44-293 REQ'D
SINGLE SPAN 36-INCH PRESTRESSED GIRDERS
40.00 FT CLEAR ROADWAY WIDTH
SKEW 4.5° RHF

VPT STA 398'EB'+00.00
VPT EL 842.65

VPC STA 398'EB'+50.00
VPC EL 842.01

VPI STA 403'EB'+50.00
VPI EL 835.70

'EB' R/L EXISTING PROFILE

'EB' R/L FINISHED PROFILE

-1.26%

LOW POINT STA 403+65.17
LOW POINT EL 838.76

16'-10" MIN CLEARANCE

HIGH POINT STA 392+07.65
HIGH POINT EL 846.38

402'EB'+00.00; 117.55' LT; EL=831.00
402'EB'+00.00; 63.41' RT; EL=828.90
181 LF OF CPRC CLASS III 36-INCH REQ'D

403'EB'+79.00; 30.42' LT; EL=829.00
403'EB'+79.00; 83.90' RT; EL=823.00
114 LF OF CPRC CLASS III 18-INCH REQ'D

392'EB'+28.42; 177.36' LT; EL=820.60
392'EB'+28.41; 157.69' RT; EL=804.80
336 LF OF CPRC CLASS V 36-INCH REQ'D

EXISTING PROFILE ELEVATIONS AT 'EB' R/L
FINISHED PROFILE ELEVATIONS AT 'EB' R/L

880 870 860 850 840 830 820 810

812.94 819.27 | 820.74 822.27 | 824.01 825.27 | 828.73 828.16 | 832.67 830.84 | 837.41 833.31 | 844.18 835.57 | 847.65 837.61 | 843.62 839.43 | 838.18 841.05 | 836.60 842.45 | 828.84 843.64 | 823.24 844.61 | 824.11 845.38 | 820.32 845.93 | 818.38 846.26 | 814.30 846.38 | 814.34 846.29 | 821.07 845.99 | 828.00 845.47 | 821.52 844.74 | 819.84 843.80 | 821.91 842.65 | 822.87 841.41 | 825.24 840.40 | 829.21 839.62 | 831.02 839.10 | 832.89 838.81 | 836.44 838.78 | 836.14 838.99 | 837.66 839.44

376'EB' 378'EB' 380'EB' 382'EB' 384'EB' 386'EB' 388'EB' 390'EB' 392'EB' 394'EB' 396'EB' 398'EB' 400'EB' 402'EB' 404'EB' 406'EB'

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 EB	SHEET 129 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_050101_PP(EB).DWG
LAYOUT NAME - 050105-PP(EB)

PLOT DATE : 10/26/2020 3:48 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:200_XREF

WISDOT/CADDS SHEET 44

MATCH LINE STA 406'EB'+00

MATCH LINE STA 436'EB'+00

5

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

MURPHY, MICHAEL J & MARY L

MURPHY, MARY L

VILLAGE OF HORTONVILLE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

MURPHY, MARY L

HOIER, DONALD & BONNIE

TRUST

R/W

P.L.

REMOVING FENCE

STH 15

408'WB' 410'WB' 412'WB' 414'WB' 416'WB' 418'WB' 420'WB' 422'WB' 424'WB' 426'WB' 428'WB' 430'WB' 432'WB' 434'WB'

408'EB' 410'EB' 412'EB' 414'EB' 416'EB' 418'EB' 420'EB' 422'EB' 424'EB' 426'EB' 428'EB' 430'EB' 432'EB' 434'EB'

SLOPE INTERCEPT (TYP.)

1-18" CPRC
1 INL MEDIAN 4G REQ'D
1 AEW REQ'D

1-15" CPRC
1 INL MEDIAN 2G REQ'D
1 AEW REQ'D

1-42" CPRC
2 AEW REQ'D

1-18" CPRC
1 INL MEDIAN 2G REQ'D
1 AEW REQ'D

REMOVE WASTE MATERIAL
SEE CONSTRUCTION DETAIL

NOTE:
GRADING, BASE COURSE, AND STRUCTURES TO BE CONSTRUCTED UNDER 1146-75-71
PAVING BY OTHERS UNDER PROJECT I.D. 1146-75-77

880 870 860 850 840 830 820 810

VCL = 1000.00
K = 408.080

VPT STA 408'EB'+50.00
VPT EL 841.64

VCL = 1000.00
K = 401.599

VPC STA 410'EB'+75.00
VPC EL 844.32

VPI STA 415'EB'+75.00
VPI EL 850.267

VPT STA 420'EB'+75.00
VPT EL 843.76

'EB' R/L EXISTING PROFILE

'EB' R/L FINISHED PROFILE

1.19%

-1.30%

VCL = 1000.00
K = 517.057

VPC STA 426'EB'+88.46
VPC EL 835.76

VPI STA 431'EB'+88.46
VPI EL 829.25

LOW POINT STA 433+61.65
LOW POINT EL 831.38

410'EB'+50.00; 17.90' LT; EL=840.01
410'EB'+50.00; 50.04' RT; EL=838.74
68 LF OF CPRC CLASS IV 18-INCH REQ'D

HIGH POINT STA 415+52.13
HIGH POINT EL 847.15

432'EB'+00.00; 29.99' LT; EL=820.00
432'EB'+00.00; 96.57' RT; EL=815.10
126 LF OF CPRC CLASS III 18-INCH REQ'D

430'EB'+72.12; 151.72' LT; EL=815.00
430'EB'+95.36; 98.87' RT; EL=813.20
252 LF OF CPRC CLASS III 42-INCH REQ'D

MARSH EXCAVATION PROFILE

LANDFILL EXCAVATION PROFILE

EXISTING PROFILE ELEVATIONS AT 'EB' R/L
FINISHED PROFILE ELEVATIONS AT 'EB' R/L

| | | |

GE OF HORTONVILLE

WEYERS, ARNOLD J & MARY S

WEYERS, ARNOLD J & MARY S

R/W

R/W

P.L.

SNOWMOBILE TRAIL CROSSING

WEYERS, ARNOLD J & MARY S

JOSSART, JOAN M SURVIVORS TRST

YOUNG, RUTH M

MATCH LINE STA 436'EB'+00

MATCH LINE STA 465'EB'+00

438'WB' 440'WB' 442'WB' 444'WB' 446'WB' 448'WB' 450'WB' 452'WB' 454'WB' 456'WB' 458'WB' 460'WB' 462'WB' 464'WB'

438'EB' 440'EB' 442'EB' 444'EB' 446'EB' 448'EB' 450'EB' 452'EB' 454'EB' 456'EB' 458'EB' 460'EB' 462'EB' 464'EB'

STH 15

1-18" CPRC
1 INL MEDIAN 4G REQ'D
1 AEW REQ'D

SLOPE INTERCEPT (TYP.)

REMOVING BUILDING STA 447'EB'+00

1-48"X76" CPRCHE
2 AEW REQ'D

WETLAND LIMITS (TYP.)

1-18" CPRC
1 INL MEDIAN 2G REQ'D
1 AEW REQ'D

LEMKE, ALVIN H

WEYERS, ARNOLD J & MARY S

LEMKE, ALVIN H JR

JOSSART, JOAN M SURVIVORS TRST

BY OTHERS

WEYERS, ARNOLD

GERALD & ROSE

ZIEGLER, MICHAEL W & JOAN A

BANKER, MARK L

PULS, GAIL M
WALSVIK, PENNY A
STILES, BLINK, JENNIFER L

RWGP

5

5

NOTE:
GRADING, BASE COURSE, AND STRUCTURES TO BE CONSTRUCTED UNDER 1146-75-71
PAVING BY OTHERS UNDER PROJECT I.D. 1146-75-77

END PROJECT 1146-75-71
STA 465'EB'+00

VCL = 1200.00
K = 506.769

VCL = 1000.00
K = 517.457

VPT STA 436'EB'+88.69
VPT EL 832.41

VPC STA 451'EB'+75.00
VPC EL 841.81

VPI STA 457'EB'+75.00
VPI EL 845.60

VPT STA 463'EB'+75.00
VPT EL 863.60

'EB' R/L EXISTING PROFILE

'EB' R/L FINISHED PROFILE

440'EB'+00.00; 19.28' LT; EL=830.05
440'EB'+00.00; 45.74' RT; EL=829.80
65 LF OF CPRC CLASS IV 18-INCH REQ'D

0.63%

465'EB'+00.00; 30.00' LT; EL=861.20
465'EB'+00.00; 55.38' RT; EL=861.00
85 LF OF CPRC CLASS IV 18-INCH REQ'D

EXISTING PROFILE ELEVATIONS AT 'EB' R/L
FINISHED PROFILE ELEVATIONS AT 'EB' R/L

453'EB'+29.08; 132.44' LT; EL=829.60
451'EB'+86.51; 84.84' RT; EL=826.90
260 LF OF CPRCHE CLASS HE-III 48x76-INCH REQ'D

457'EB'+00.00; 30.00' LT; EL=838.00
457'EB'+00.00; 81.77' RT; EL=835.00
111 LF OF CPRC CLASS III 18-INCH REQ'D

MARSH EXCAVATION LIMITS

890 880 870 860 850 840 830 820

| | | |

GE OF HORTONVILLE

WEYERS, ARNOLD J & MARY S

WEYERS, ARNOLD J & MARY S

R/W

R/W

P.L.

SNOWMOBILE TRAIL CROSSING

WEYERS, ARNOLD J & MARY S

JOSSART, JOAN M SURVIVORS TRST

YOUNG, RUTH M

MATCH LINE STA 436'EB'+00

MATCH LINE STA 465'EB'+00

438'WB' 440'WB' 442'WB' 444'WB' 446'WB' 448'WB' 450'WB' 452'WB' 454'WB' 456'WB' 458'WB' 460'WB' 462'WB' 464'WB'

438'EB' 440'EB' 442'EB' 444'EB' 446'EB' 448'EB' 450'EB' 452'EB' 454'EB' 456'EB' 458'EB' 460'EB' 462'EB' 464'EB'

STH 15

1-18" CPRC
1 INL MEDIAN 4G REQ'D
1 AEW REQ'D

SLOPE INTERCEPT (TYP.)

REMOVING BUILDING STA 447'EB'+00

1-48"X76" CPRCHE
2 AEW REQ'D

WETLAND LIMITS (TYP.)

1-18" CPRC
1 INL MEDIAN 2G REQ'D
1 AEW REQ'D

LEMKE, ALVIN H

WEYERS, ARNOLD & MARY S

WEYERS, ARNOLD

LEMKE, ALVIN H JR

JOSSART, JOAN M SURVIVORS TRST

BY OTHERS

GERALD & ROSE

ZIEGLER, MICHAEL W & JOAN A

BANKER, MARK L

PULS, SAIL M
WALSVIK, PENNY A
STILES, BLINK, JENNIFER L

RWGP

5

5

NOTE:
GRADING, BASE COURSE, AND STRUCTURES TO BE CONSTRUCTED UNDER 1146-75-71
PAVING BY OTHERS UNDER PROJECT I.D. 1146-75-77

END PROJECT 1146-75-71
STA 465'EB'+00

VCL = 1200.00
K = 506.769

VCL = 1000.00
K = 517.457

VPT STA 436'EB'+88.59
VPT EL 832.41

VPC STA 451'EB'+75.00
VPC EL 841.81

VPI STA 457'EB'+75.00
VPI EL 845.60

VPT STA 463'EB'+75.00
VPT EL 863.60

'EB' R/L EXISTING PROFILE

'EB' R/L FINISHED PROFILE

0.63%

440'EB'+00.00; 19.28' LT; EL=830.05
440'EB'+00.00; 45.74' RT; EL=829.80
65 LF OF CPRC CLASS IV 18-INCH REQ'D

453'EB'+29.08; 132.44' LT; EL=829.60
451'EB'+86.51; 84.84' RT; EL=826.90
260 LF OF CPRCHE CLASS HE-III 48x76-INCH REQ'D

457'EB'+00.00; 30.00' LT; EL=838.00
457'EB'+00.00; 81.77' RT; EL=835.00
111 LF OF CPRC CLASS III 18-INCH REQ'D

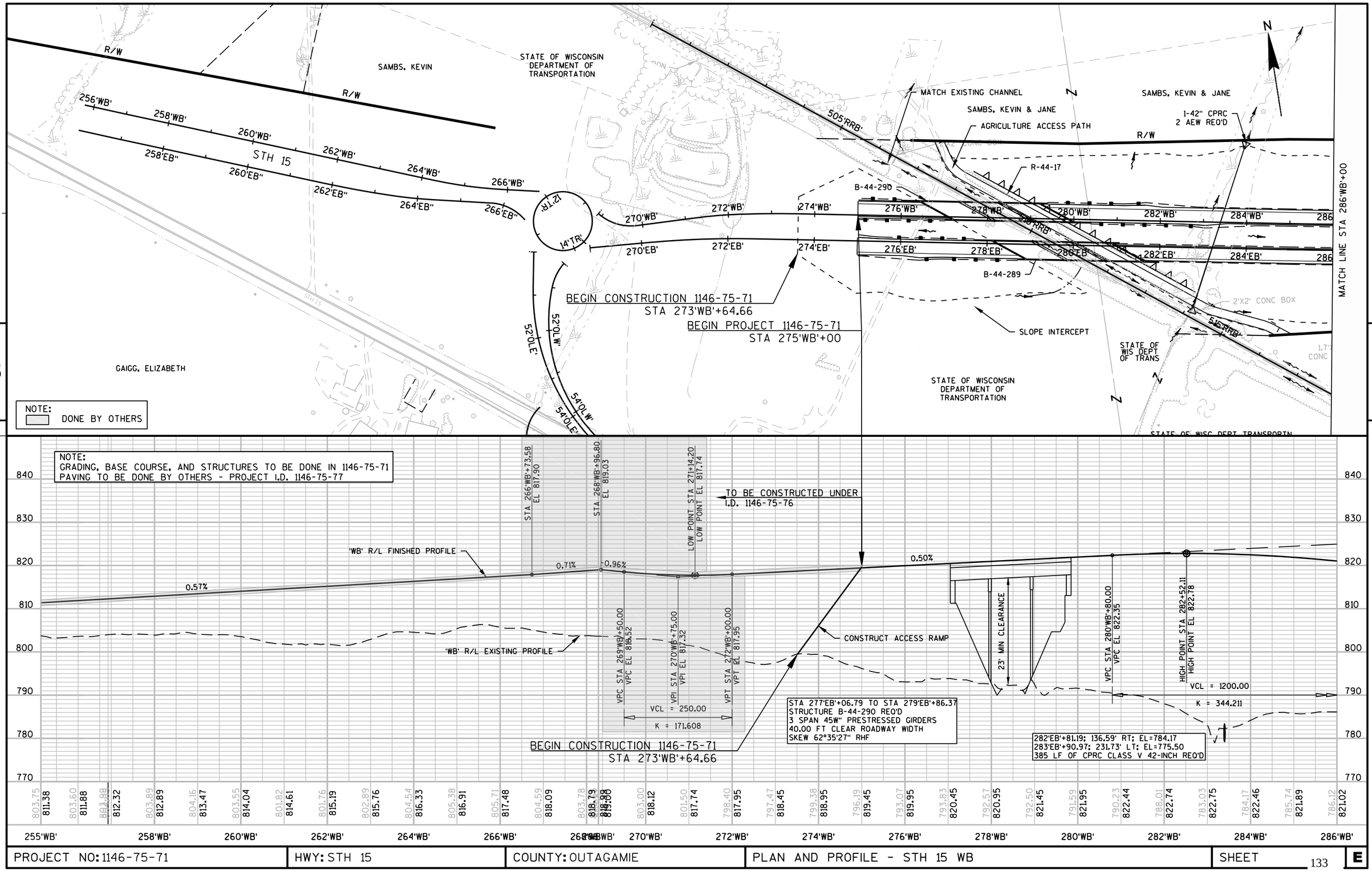
465'EB'+00.00; 30.00' LT; EL=861.20
465'EB'+00.00; 55.38' RT; EL=861.00
85 LF OF CPRC CLASS IV 18-INCH REQ'D

EXISTING PROFILE ELEVATIONS AT 'EB' R/L
FINISHED PROFILE ELEVATIONS AT 'EB' R/L

MARSH EXCAVATION LIMITS

890 880 870 860 850 840 830 820

| | | |



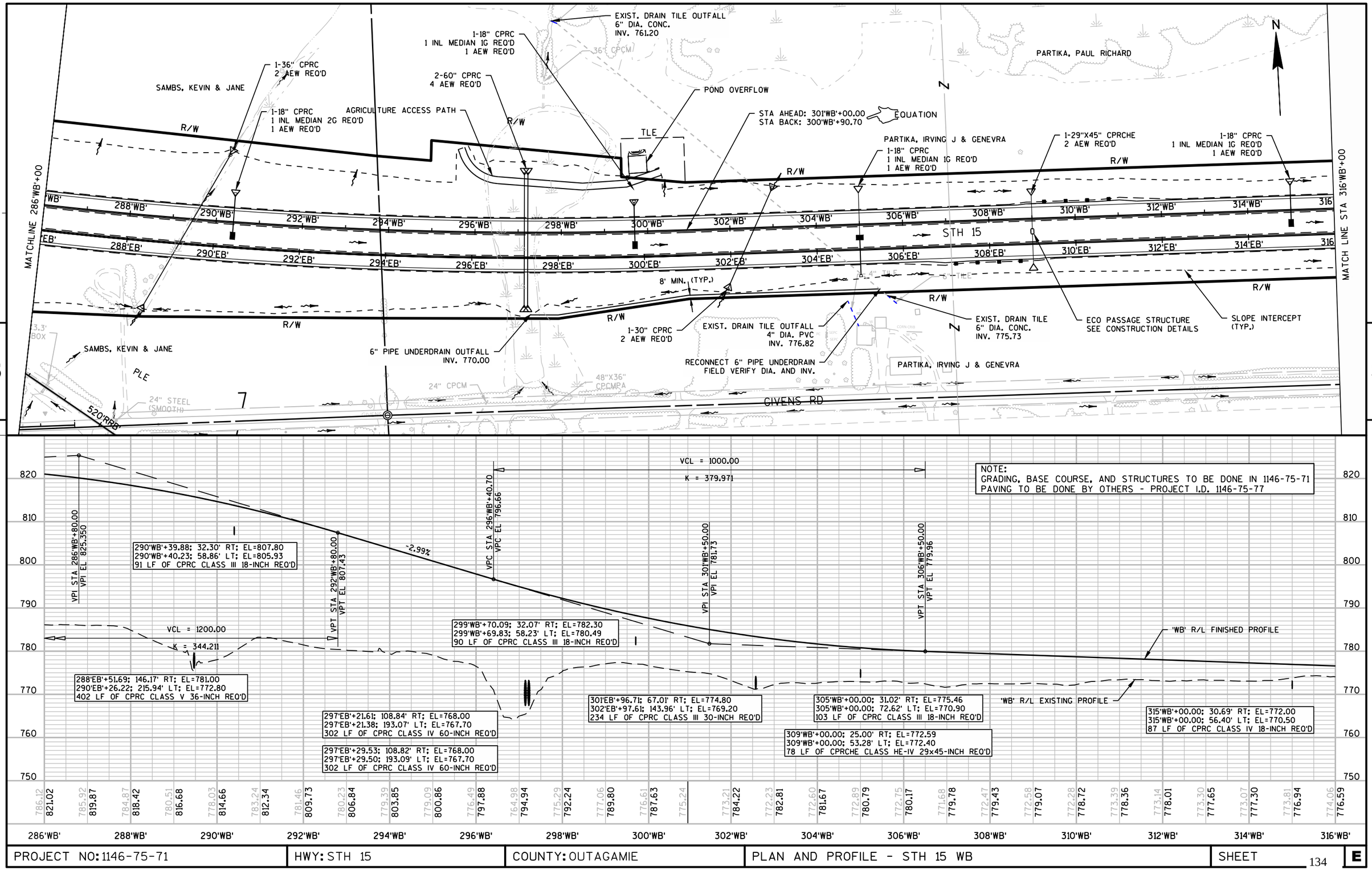
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET 133 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_050108_PP(WB).DWG
LAYOUT NAME - 050108-PP(WB)

PLOT DATE : 10/27/2020 6:49 AM PLOT BY : SIMMONS, MASON A PLOT NAME :

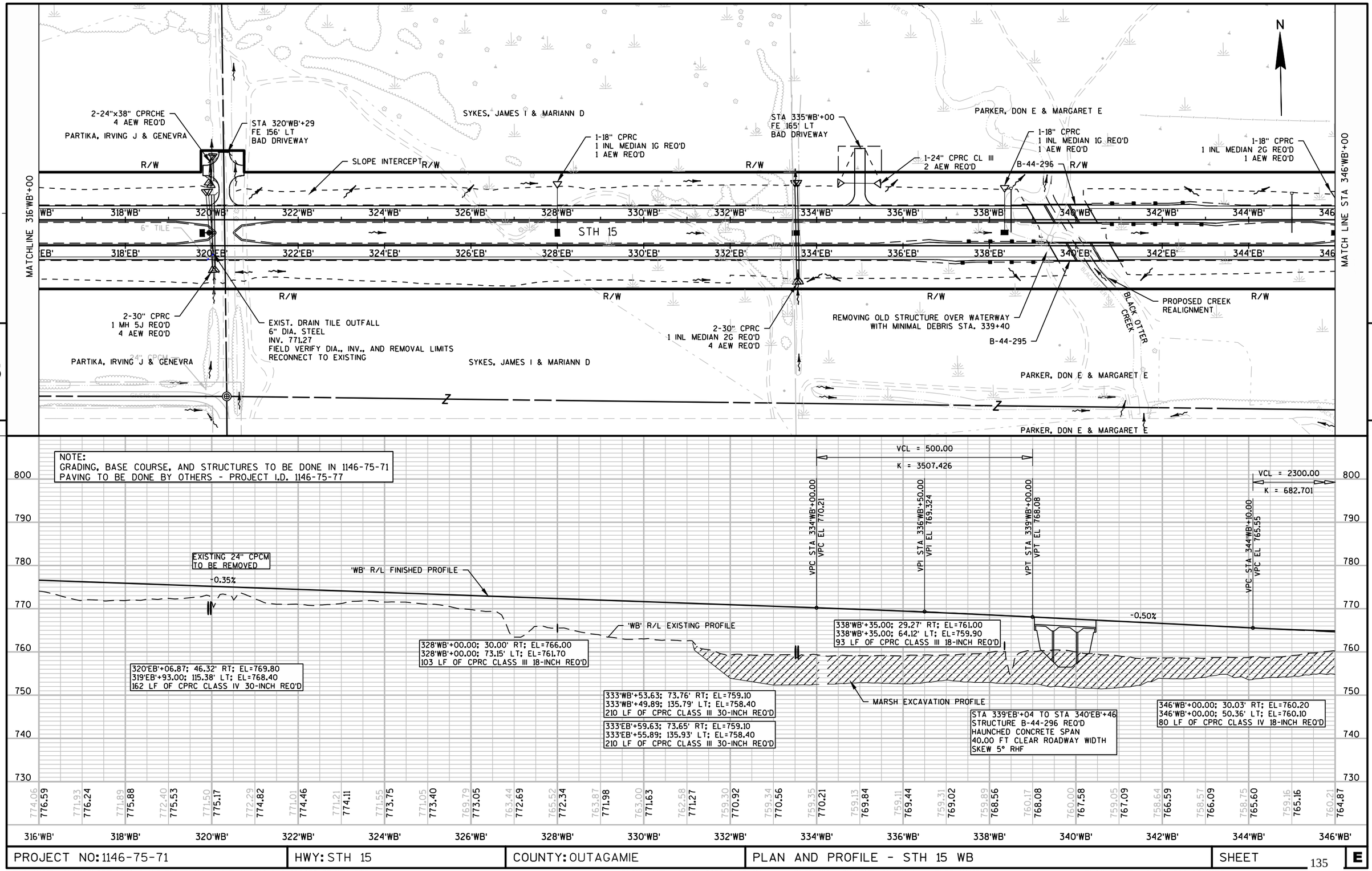
PLOT SCALE : 1 IN: 200 FT_XREF

WISDOT/CADDS SHEET 44



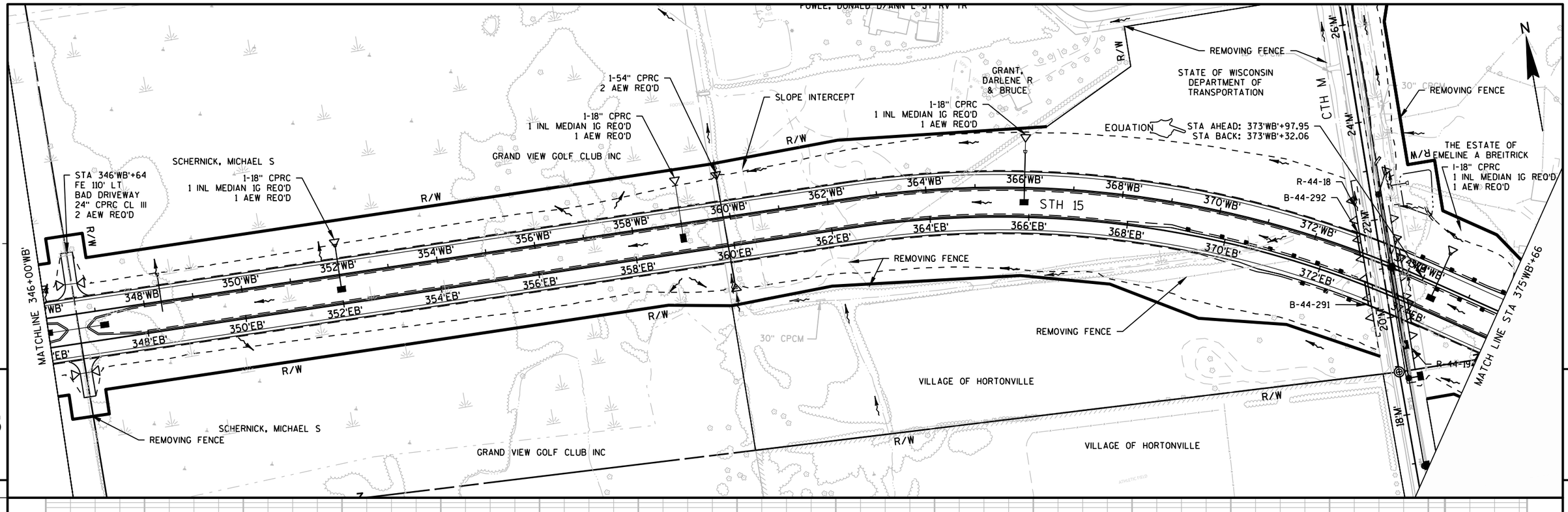
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET 134	E

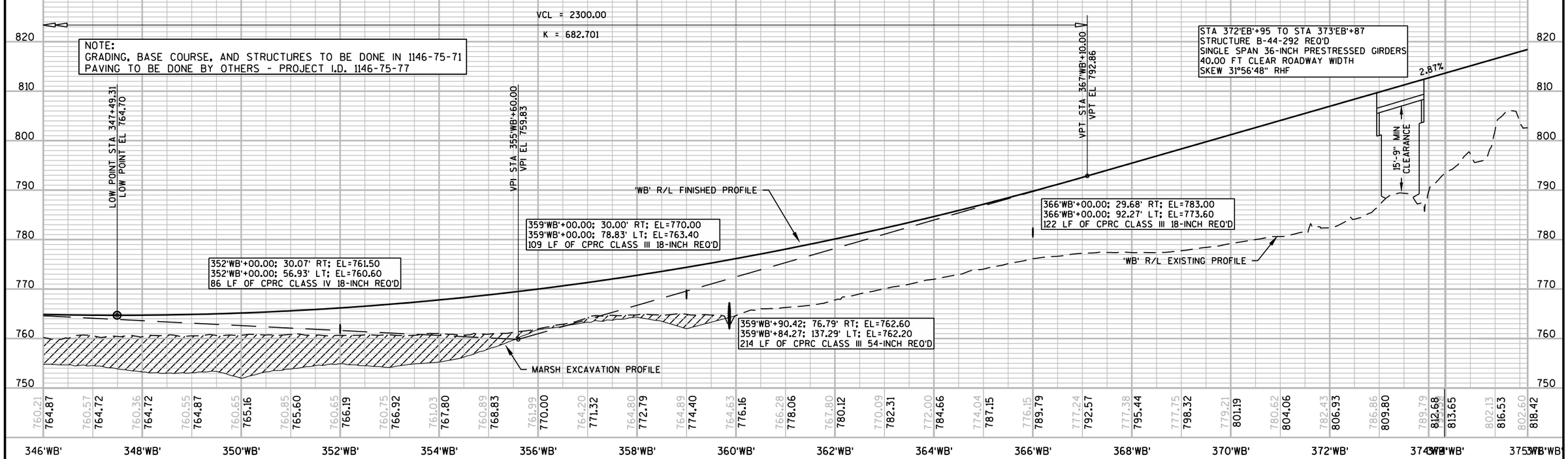
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_050108_PP(WB).DWG
LAYOUT NAME - 050109-PP(WB)
PLOT DATE : 10/27/2020 6:38 AM PLOT BY : SIMMONS, MASON A PLOT NAME :
PLOT SCALE : 1 IN: 200 FT_XREF
WISDOT/CADDS SHEET 44



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET 135 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_050108_PP(WB).DWG
LAYOUT NAME - 050110-PP(WB)
PLOT DATE : 10/27/2020 6:39 AM PLOT BY : SIMMONS, MASON A PLOT NAME :
PLOT SCALE : 1 IN: 200 FT_XREF
WISDOT/CADDS SHEET 44



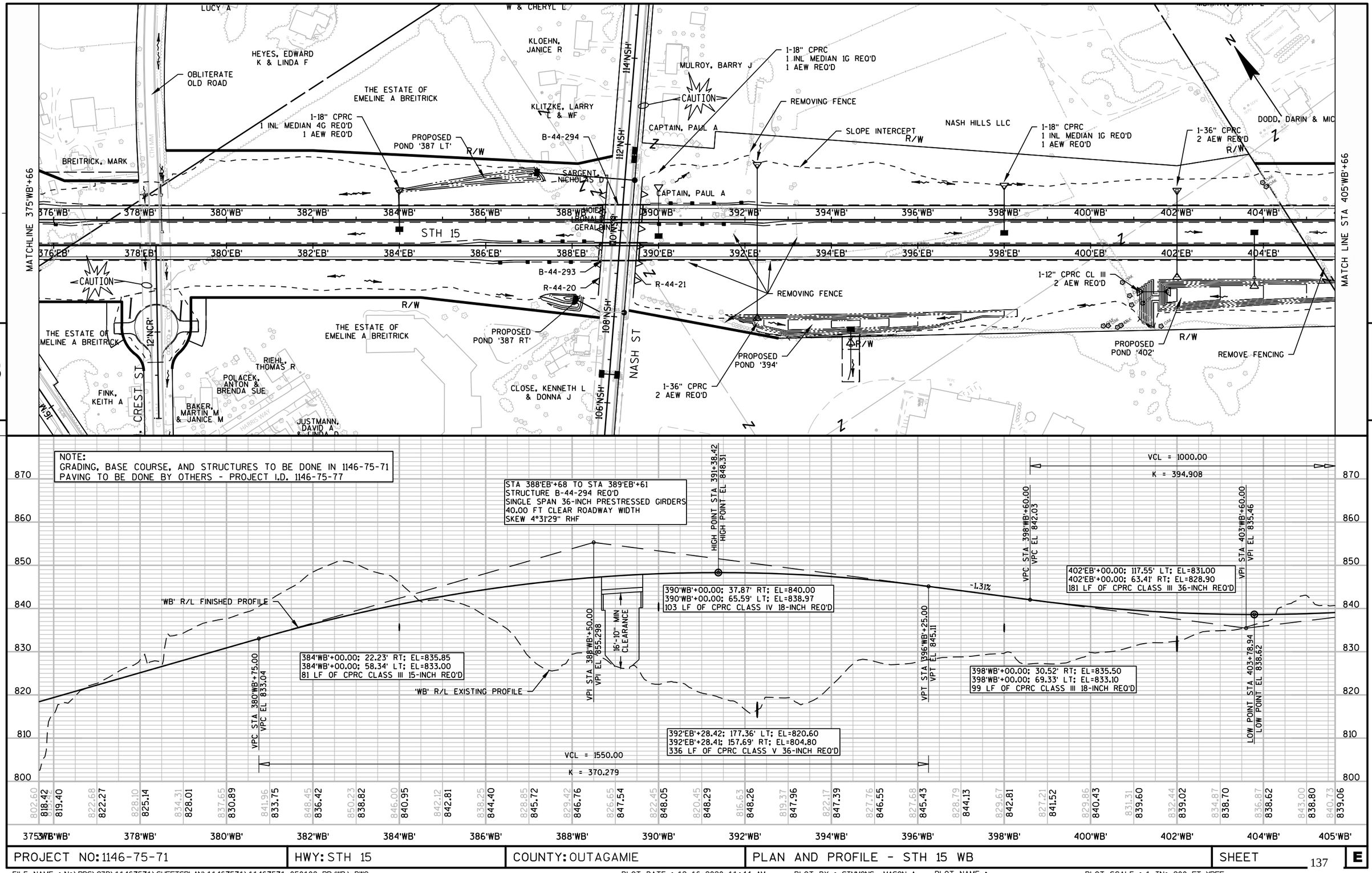


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET 136 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_050108_PP(WB).DWG
LAYOUT NAME - 050111-PP(WB)

PLOT DATE : 12/16/2020 11:43 AM PLOT BY : SIMMONS, MASON A PLOT NAME :

PLOT SCALE : 1 IN: 200 FT_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET 137 E

MATCHLINE 405'WB'+66

MATCH LINE STA 435'WB'+66

5

5

MURPHY, MICHAEL J & MARY L

R/W

STATE OF WISCONSIN
DEPARTMENT OF
TRANSPORTATION

SLOPE INTERCEPT
(TYP.)

HELLE

MURPHY, MARY L

REMOVING FENCE

1-42" CPRC
2 AEW REQ'D
MURPHY, MARY L

VILLAGE OF HORTONVILLE

STA 434'WB'+00
FE 97' LT
BAD DRIVEWAY
24" CPRC CL III
2 AEW REQ'D

406'WB' 408'WB' 410'WB' 412'WB' 414'WB' 416'WB' 418'WB' 420'WB' 422'WB' 424'WB' 426'WB' 428'WB' 430'WB' 432'WB' 434'WB'

STH 15

406'EB' 408'EB' 410'EB' 412'EB' 414'EB' 416'EB' 418'EB' 420'EB' 422'EB' 424'EB' 426'EB' 428'EB' 430'EB' 432'EB' 434'EB'

VILLAGE OF
HORTONVILLE

24" CPCM

REMOVE WASTE MATERIAL
SEE CONSTRUCTION DETAIL

STATE OF WISCONSIN
DEPARTMENT OF
TRANSPORTATION

MURPHY, MARY L

NOTE:
GRADING, BASE COURSE, AND STRUCTURES TO BE DONE IN 1146-75-71
PAVING TO BE DONE BY OTHERS - PROJECT I.D. 1146-75-77

VCL = 1000.00
K = 394.908

VPT STA 408'WB'+60.00
VPT EL 841.55

'WB' R/L FINISHED PROFILE

'WB' R/L EXISTING PROFILE

HIGH POINT STA 415+58.38
HIGH POINT EL 847.11

1.22%

-1.30%

VPC STA 410'WB'+75.00
VPC EL 844.17

VPI STA 415'WB'+75.00
VPI EL 850.256

VPT STA 420'WB'+75.00
VPT EL 843.75

VCL = 1000.00
K = 396.810

VCL = 1000.00
K = 516.634

VPC STA 426'WB'+88.45
VPC EL 835.76

VPI STA 431'WB'+88.45
VPI EL 829.25

LOW POINT STA 433+61.08
LOW POINT EL 831.38

MARSH EXCAVATION PROFILE

LANDFILL
EXCAVATION PROFILE

430'EB'+72.12; 151.72' LT; EL=815.00
430'EB'+95.36; 98.87' RT; EL=813.20
252 LF OF CPRC CLASS III 42-INCH REQ'D

880 870 860 850 840 830 820 810

840.73 839.06 841.30 839.24 844.45 839.92 841.42 840.86 842.08 842.03 847.59 843.25 854.41 844.46 860.83 845.49 865.19 846.27 868.00 846.79 871.82 847.07 875.62 847.09 880.00 846.86 883.52 846.37 878.13 845.64 876.54 844.65 877.47 843.42 876.99 842.12 876.54 840.82 874.80 839.52 866.74 838.21 853.40 836.91 837.37 835.61 828.05 834.43 822.94 833.44 818.01 832.64 816.32 832.04 821.15 831.63 831.64 831.42 834.02 831.40 833.87 831.57 834.49 831.79

405'WB' 408'WB' 410'WB' 412'WB' 414'WB' 416'WB' 418'WB' 420'WB' 422'WB' 424'WB' 426'WB' 428'WB' 430'WB' 432'WB' 434'WB' 435'WB'

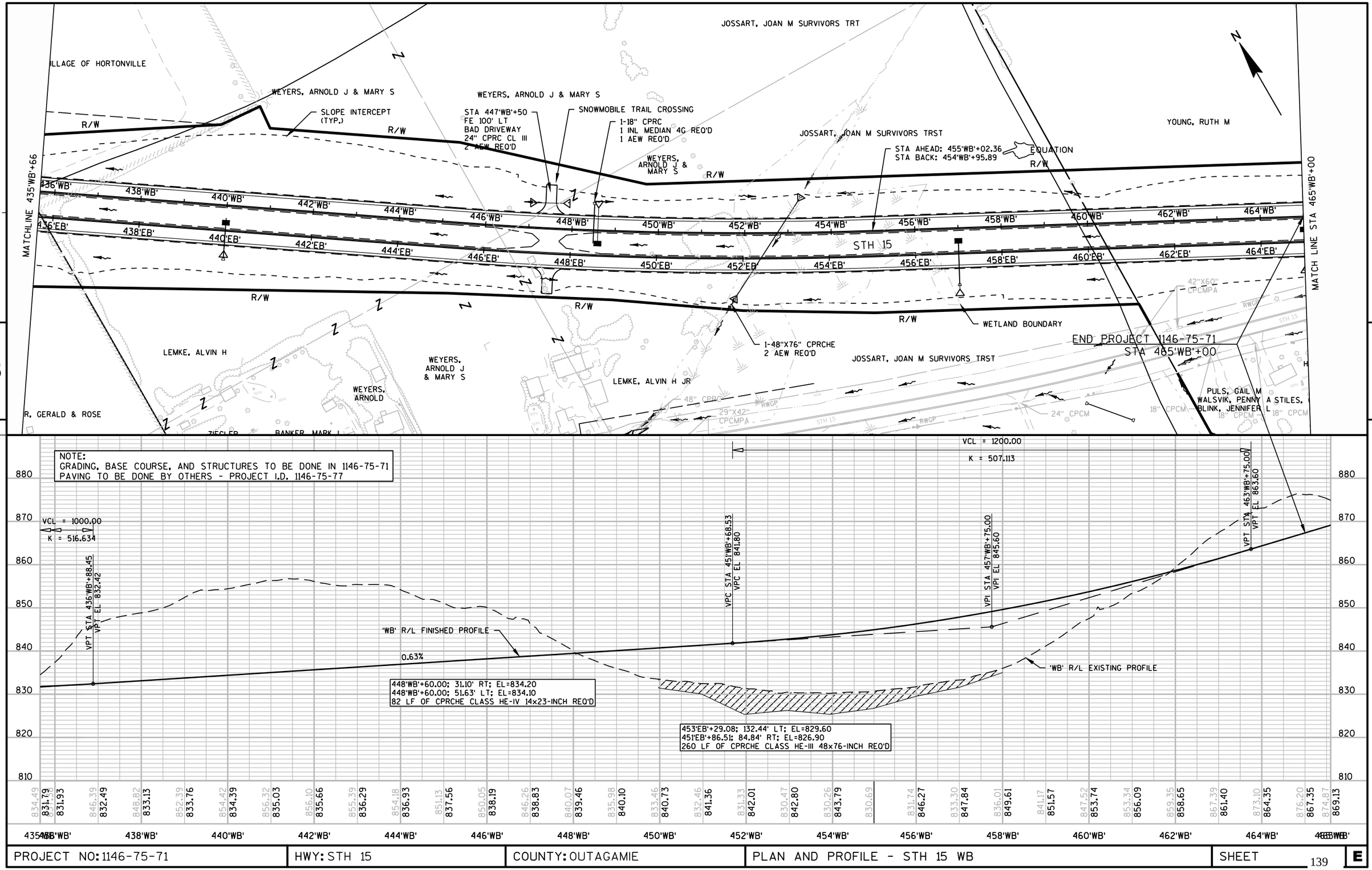
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET 138 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_050108_PP(WB).DWG
LAYOUT NAME - 050113-PP(WB)

PLOT DATE : 12/16/2020 11:45 AM PLOT BY : SIMMONS, MASON A PLOT NAME :

PLOT SCALE : 1 IN: 200 FT_XREF

WISDOT/CADDS SHEET 44



5

5

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET 139	E

FINK, KEITH A

STA 12'NCR'+10
FE 100' LT
B.A.D. DRIVEWAY

TLE

R/W

RIP RAP MEDIUM
SEE EROSION CONTROL DETAILS

25' (TYP.)

10'

25'

TESSEN, JAMES L & WF

P L

CAUTION

SEE CONSTRUCTION DETAILS FOR SWALE CONTOURS

R50'

INL

MH

N. CREST ST.

STA 12'NCR'+12.07
2.14' LT

11'NCR'

12'NCR'

13'NCR'

378'EB'

378'WB'

OBLITERATE OLD ROAD

N

R52' (TYP.)

REMOVE SMALL CULVERT PIPE

KRENKE AVE

BAKER, MARTIN M & JANICE M

STH 15 EB

STH 15 WB

SLOPE INTERCEPT (TYP.)

STA 12'NCR'+10
FE 95' RT
B.A.D. DRIVEWAY

5

5

BEGIN CONSTRUCTION
STA 11'NCR'+30.00
MATCH EXISTING
SAWCUT REQUIRED

END CONSTRUCTION
STA 12'NCR'+62.02

STA 11'NCR'+30.00
EL 812.70

STA 12'NCR'+42.99
EL 816.40

STA 12'NCR'+62.02
EL 817.15

3.96%

3.28%

3.25%

'NCR' R/L
FINISHED PROFILE

'NCR' R/L
EXISTING PROFILE

EXISTING PROFILE ELEVATIONS AT 'NCR' R/L

FINISHED PROFILE ELEVATIONS AT 'NCR' R/L

828 826 824 822 820 818 816 814 812 810

809.39 810.00 810.62 811.19 811.84 812.56 813.33 813.35 814.13 814.17 814.88 814.99 815.81 815.81 816.67 816.68 817.65 818.72 819.80 820.98 822.39

10'NCR'+00 10'NCR'+50 11'NCR'+00 11'NCR'+50 12'NCR'+00 12'NCR'+50 13'NCR'+00 13'NCR'+50 14'NCR'+00

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - N. CREST ST.	SHEET 140	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_050401_PP (N CREST).DWG
LAYOUT NAME - 050401-PP (NCR)

PLOT DATE : 1/22/2020 8:45 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1IN = 50FT_XREF

WISDOT/CADDS SHEET 44

STEUDEL, DONALD R & CONNIE M

LILLGE, DREW M & WILHELMI
LOT 3
CSM 1946
V10/P1946
DOC. 1127721

THE ESTATE OF
EMELINE A BREITRICK

STA 15'MM'+27
FE 80' LT
B.A.D. DWY

2-24"X38" CPRCHE
4 AEW REQ'D

CLEAR, GRUB, AND GRADE
FOR FIELD ACCESS

STA 26'MM'+70
PE 45' LT
ASPH DRIVEWAY
18" CPRC
2 AEW REQ'D

WAGNER,
LISA K

ROUGEUX, ALAN P & MELODY L

GASSER, GARY S

VATLAND,
LARRY A & THERESA

1-18" CPRC
2 AEW REQ'D

HILKER, LYLE J & DEBRA J

ALBRECHT,
BRUCE & DIANE

MONROE,
JAMES J & MARGIE A

MILLER, S

SIEGEL, MARK S LIVING TRUST

PUGLIESE, SEBAST. K III & LORI

CISMOSKI,
JAMES H

KORPELA,
GERALD & ARDYTHE

MERKT,
PAUL J

SLOPE INTERCEPT

CAUTION

END CONSTRUCTION
STA 26'MM'+77
MATCH EXISTING
SAWCUT REQ'D

LONE HICKORY LANE

CTH MM

28'M CTH M

30'M

26'M

24'M

22'MM

20'MM

18'MM

16'MM

14'MM

12'MM

-5.5%

R/W

GRANT,
DARLENE R
& BRUCE

LOT 2
CSM 4252
V23/P4252
DOC. 1453683

STATE OF WISCONSIN
DEPARTMENT OF
TRANSPORTATION

18" CPCM

30" CPCM

PIN 120039402
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DOC. 1972519

SAWCUT

18"CPRC
2 AEW REQ'D

24"CPRC
2 AEW REQ'D

REMOVE FENCE

STA 15'MM'+27
FE 133' RT
B.A.D. DWY

OBLITERATE OLD ROAD

THE ESTATE OF
EMELINE A BREITRICK

BEGIN CONSTRUCTION
STA 10'MM'+12
MATCH EXISTING
SAWCUT REQ'D

10'MM'+72.00; 32.72' RT; EL=778.15
10'MM'+71.99; 26.19' LT; EL=777.50
59 LF OF CPRCHE CLASS HE-IV 24x38-INCH REQ'D

10'MM'+64.00; 37.31' RT; EL=778.15
10'MM'+64.00; 29.22' LT; EL=777.50
67 LF OF CPRCHE CLASS HE-IV 24x38-INCH REQ'D

STA 10'MM'+12.00
EL 782.89

LOW POINT STA 10+79.93
LOW POINT EL 782.06

VCL = 75.00
K = 21.292

VCL = 275.00
K = 89.053

VCL = 450.00
K = 70.045

VPC STA 10'MM'+50.06
VPC EL 782.27
VPI STA 10'MM'+87.56
VPI EL 781.74
VPT STA 11'MM'+25.06
VPT EL 782.54

VPC STA 12'MM'+27.28
VPC EL 784.70

VPI STA 13'MM'+64.78
VPI EL 787.62

VPT STA 15'MM'+02.28
VPT EL 794.78

VPC STA 20'MM'+29.21
VPC EL 822.21

VPI STA 22'MM'+54.14
VPI EL 833.930

HIGH POINT STA 23+93.90
HIGH POINT EL 831.71

VPT STA 24'MM'+79.14
VPT EL 831.19

STA 26'MM'+76.55
EL 828.79

25'MM'+00.00; 24.02' RT; EL=828.33
25'MM'+00.00; 23.62' LT; EL=825.84
48 LF OF CPRC CLASS IV 18-INCH REQ'D

CTH 'MM' R/L
FINISHED PROFILE

CTH 'MM' R/L EXISTING PROFILE

2.12%

5.21%

-1.22%

EXISTING PROFILE ELEVATIONS AT CTH 'MM' R/L
FINISHED PROFILE ELEVATIONS AT CTH 'MM' R/L

| | | |

R-44-17

20'

6" BASE AGGREGATE DENSE ¾-INCH

2:1

2.0%

2:1

MATCH DITCH FLOWLINE

12" SELECT CRUSH MATERIAL

AGRICULTURE ACCESS PATH TYPICAL SECTION

SAMBS, KEVIN & JANE

R/W

SLOPE INTERCEPT

BEGIN 'AAP' ALIGNMENT
STA 10'AAP'+00.00
Y=593796.6618
X=757969.1947

MATCH EXISTING AGRICULTURAL PATH

PC: 11'AAP'+06.79

BP: 10'AAP'+00.00

S15°33'53.08"E

CURVE AAP-1

STA 13'AAP'+55.71
= STA 279'WB'+03.06

284'WB'

284'EB'

282'WB'

282'EB'

280'WB'

280'EB'

278'WB'

278'EB'

276'WB'

276'EB'

R-44-17

S65°30'36.07"E

CURVE AAP-3

SAMBS, KEVIN & JANE

22'AAP'

20'AAP'

S52°30'36.07"E

18'AAP'

16'AAP'

14'AAP'

12'AAP'

WISCONSIN CENTRAL LTD

PC: 19'AAP'+46.47

PT: 19'AAP'+68.33

PT: 13'AAP'+29.18

CURVE AAP-2

PC: 18'AAP'+06.32

PT: 11'AAP'+70.18

B-44-290

B-44-289

S52°24'33.79"E

STA 14'AAP'+86.04
= STA 280'EB'+18.76

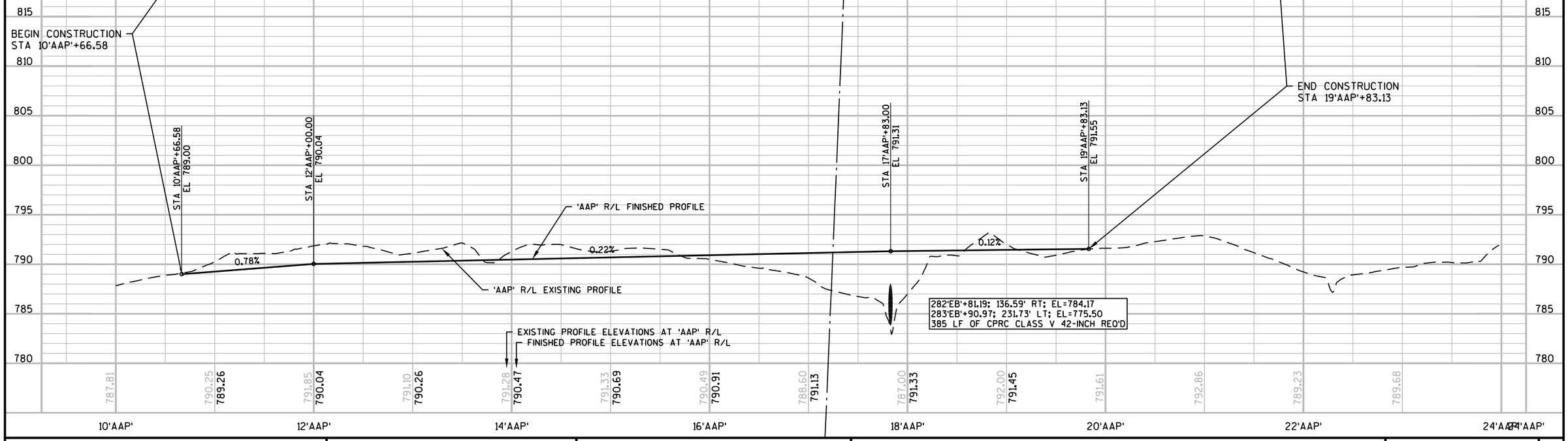
STATE OF WIS DEPT OF TRANS

1-42" CPRC CL IV
2-AEW REQ'D
MATCH INVERT OF EXISTING 2'X2' BOX

CURVE AAP-1
PI STA = 11'AAP'+39.62
Y = 593662.159
X = 758006.659
DELTA = 36°50'41"
D = 58°07'30"
T = 32.83'

CURVE AAP-2
PI STA = 18'AAP'+17.80
Y = 593247.071
X = 758545.845
DELTA = 13°06'02"
D = 57°17'45"
T = 11.48'
L = 22.86'
R = 100.00'
PC STA = 18'AAP'+06.32
Y = 593254.076
X = 758536.746
PT STA = 18'AAP'+29.18
Y = 593242.311
X = 758556.294
BK = S52°24'33.8"E
AH = S65°30'36.1"E

CURVE AAP-3
PT STA = 19'AAP'+57.44
Y = 593189.143
X = 758613.015
DELTA = 12°33'20"
D = 57°25'46"
T = 10.98'
L = 21.86'
R = 99.77'
PC STA = 19'AAP'+46.47
Y = 593193.693
X = 758663.027
PT STA = 19'AAP'+68.33
Y = 593182.531
X = 758681.775
BK = S65°30'36.1"E
AH = S52°57'16.5"E



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - AGRICULTURE ACCESS PATH	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021804_CD.DWG
LAYOUT NAME - 021804_CD

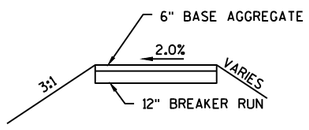
PLOT DATE : 12/15/2020 3:56 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 44

CURVE PAP-1
PI STA = 0'PAP'+78.63
Y = 593404.975
X = 759852.630
DELTA = 66°01'02"
D = 57°17'45"
T = 64.96'
L = 115.22'
R = 100.00'
PC STA = 0'PAP'+13.67
Y = 593467.280
X = 759834.242
PT STA = 1'PAP'+28.89
Y = 593396.451
X = 759917.031
BK = S16°26'35.6"E
AH = S82°27'37.6"E

CURVE PAP-2
PI STA = 3'PAP'+26.07
Y = 593370.580
X = 760112.501
DELTA = 8°11'17"
D = 28°38'52"
T = 14.32'
L = 28.58'
R = 200.00'
PC STA = 3'PAP'+11.75
Y = 593372.458
X = 760098.309
PT STA = 3'PAP'+40.33
Y = 593370.742
X = 760126.815
BK = S82°27'37.6"E
AH = N89°21'05.1"E

CURVE PAP-3
PI STA = 4'PAP'+29.10
Y = 593371.747
X = 760215.576
DELTA = 15°09'37"
D = 28°38'52"
T = 26.62'
L = 52.92'
R = 200.00'
PC STA = 4'PAP'+02.49
Y = 593371.445
X = 760188.963
PT STA = 4'PAP'+55.40
Y = 593378.998
X = 760241.184
BK = N89°21'05.1"E
AH = N74°11'28.1"E



PARTIKA ACCESS PATH TYPICAL SECTION
(LOOKING EAST)

PARTIKA, IRVING J & GENEVRA

BEGIN 'PAP' ALIGNMENT
STA 0'PAP'+00.00
Y=720839.1128
X=640275.0533

END 'PAP' ALIGNMENT
STA 5'PAP'+13.39
Y=720839.1128
X=640749.4473

S16°26'35.58"E

POND OVERFLOW
EL. 772.30

774.50 774.00 773.00

N89°21'05.05"E

16'

CURVE PAP-2

4'PAP'

2'PAP'

N74°11'28.06"E

PT: 4'PAP'+55.40

CURVE PAP-3

PC: 4'PAP'+02.49

PC: 3'PAP'+11.75

PT: 3'PAP'+40.33

PC: 0'PAP'+13.67

CURVE PAP-1

PT: 1'PAP'+28.89

S82°27'37.56"E

SLOPE INTERCEPT

SAMBS, KEVIN & JANE

304'WB'
302'WB'
300'WB'
298'WB'
296'WB'
294'WB'
292'WB'
290'WB'
304'EB'
302'EB'
300'EB'
298'EB'
296'EB'
294'EB'

4"

PARTIKA, IRVING J & GENEVRA

N

5

5

795
790
785
780
775
770
765
760

STA 0'PAP'+00.00
EL 774.00

STA 1'PAP'+26.98
EL 777.00

STA 3'PAP'+50.00
EL 777.00

STA 5'PAP'+13.40
EL 771.80

2.00%
2.45%
0.00%
-3.18%

'PAP' R/L PROPOSED PROFILE

'PAP' R/L EXISTING PROFILE

EXISTING PROFILE ELEVATIONS AT 'PAP' R/L
FINISHED PROFILE ELEVATIONS AT 'PAP' R/L

773.81	771.65	764.19	764.95	772.63	771.85
774.00	776.34	777.00	777.00	775.41	772.23

0'PAP' 2'PAP' 4'PAP' 6'PAP'

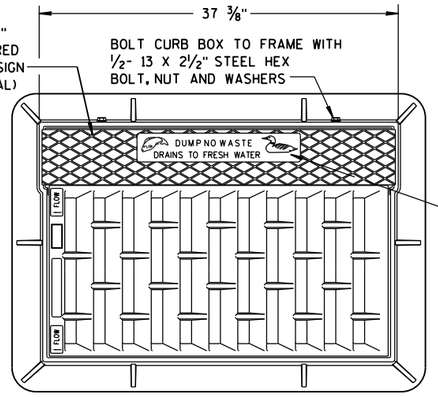
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - PARTIKA ACCESS PATH	SHEET 143	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021805_CD.DWG
LAYOUT NAME - 021805_CD
PLOT DATE : 1/22/2020 8:54 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 100'_XREF
WISDOT/CADDS SHEET 44

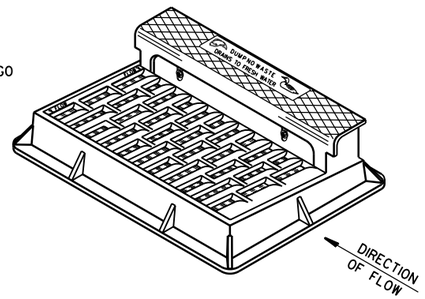
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08B10-02	MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08C09-02	INLETS MEDIAN 3 AND 4 GRATE
08D01-21A	CONCRETE CURB & GUTTER
08D01-21B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D02-07A	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-07B	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-07C	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E11-02	TURBIDITY BARRIER
08E12-01	SILT SCREEN
08E14-01	TRACKING PAD
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
11A01-06	MAINTENANCE CROSSOVER FOR FREEWAYS
12A03-10	NAME PLATE (STRUCTURES)
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13B02-09B	STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB
13C19-02	HMA LONGITUDINAL JOINTS
14A02-01	TREE PLANTING DETAIL
14B29-01	SAFETY EDGE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15B10-01A	WOOD GATE, DOUBLE LEAF
15B10-01B	WOOD GATE, DOUBLE LEAF
15B10-01C	WOOD GATE, DOUBLE LEAF
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20B	PAVEMENT MARKING (TURN LANES)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C26-04	END-OF-ROADWAY SIGNING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D03-05	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER
15D12-09A	TRAFFIC CONTROL, LANE CLOSURE
15D12-09B	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D29-06	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D30-06A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-06B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-06C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

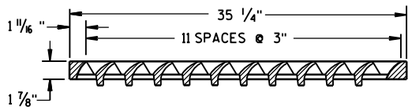
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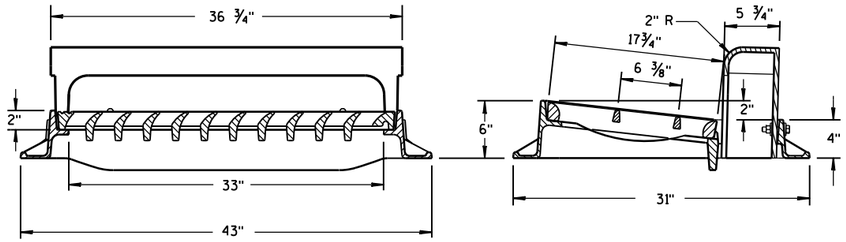


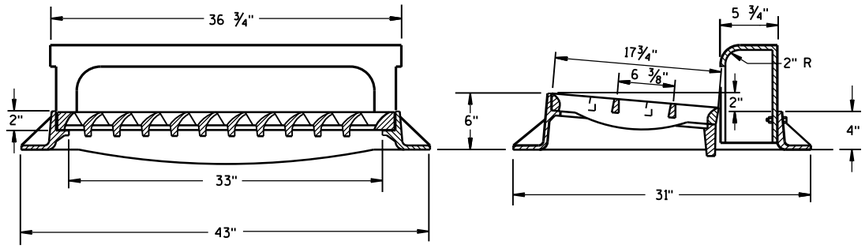
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

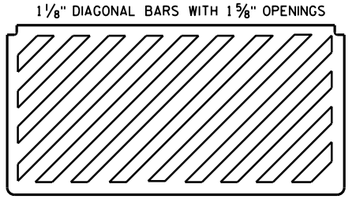






TYPE "H"

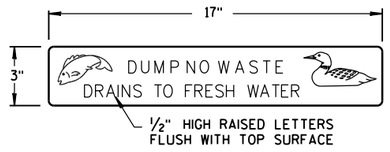
NOTE: EITHER CASTING IS ACCEPTABLE



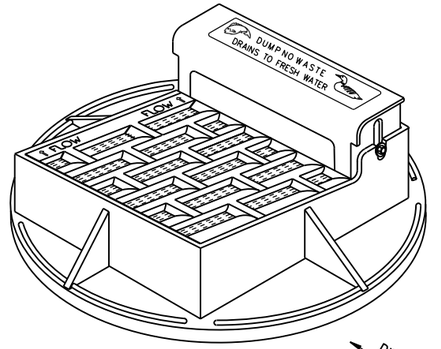
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

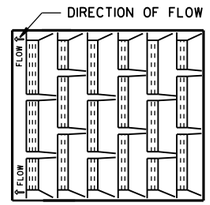
NOTE:
GRATE IS REVERSIBLE.

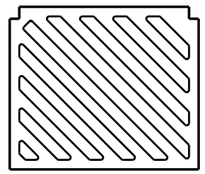
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

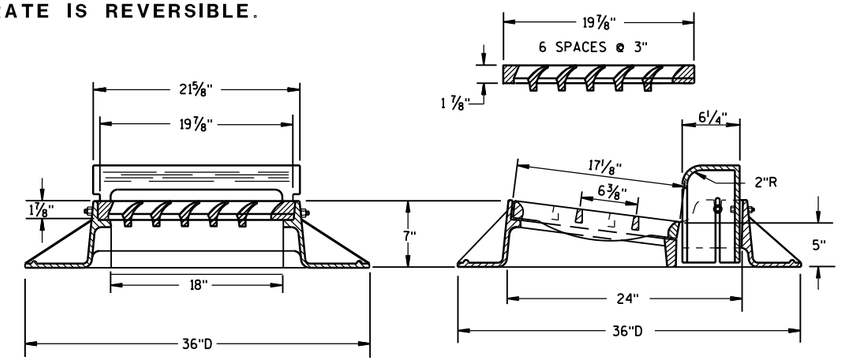




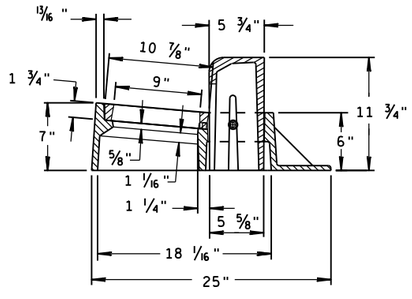
SPECIAL GRATE FOR TYPE "A" COVER

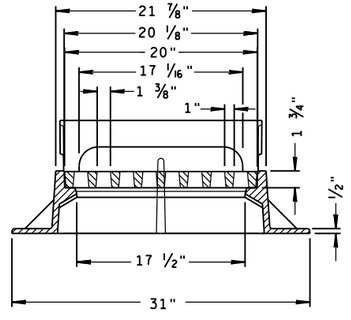
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)

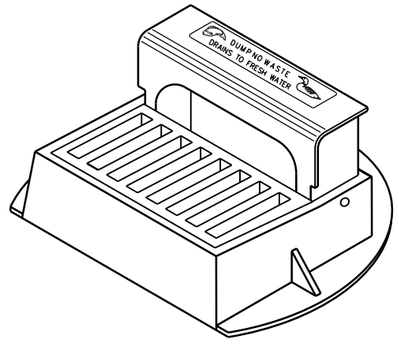


TYPE "A"





TYPE "Z"



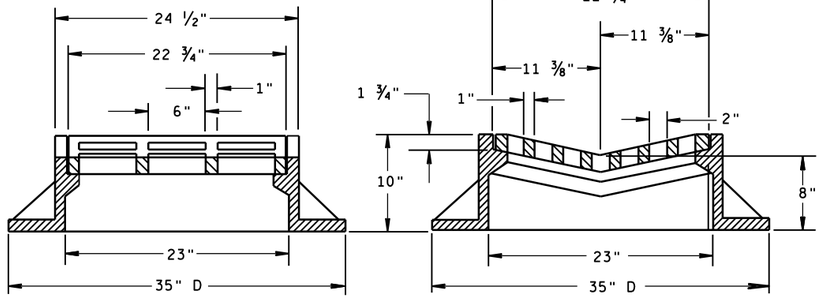
INLET COVERS
TYPE A, H, A-S, H-S & Z

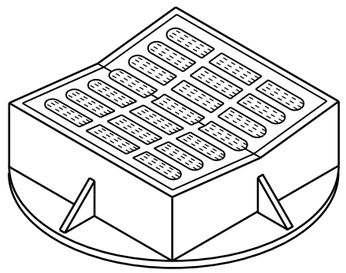
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

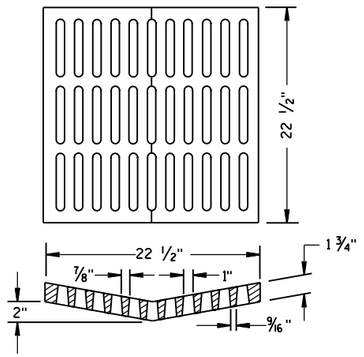
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S.D.D. 8 A 5-19a



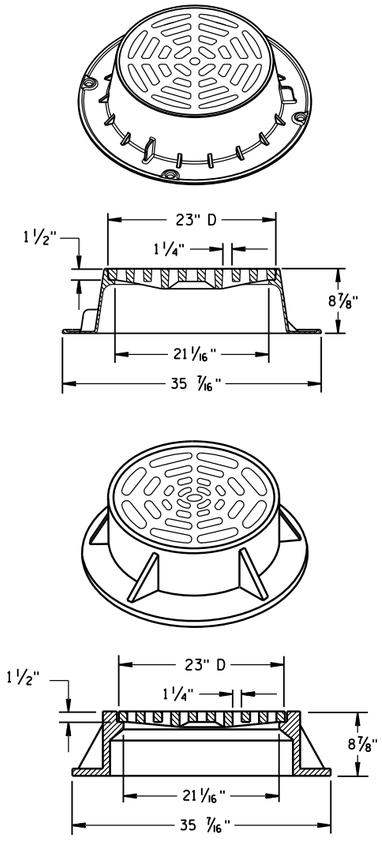


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

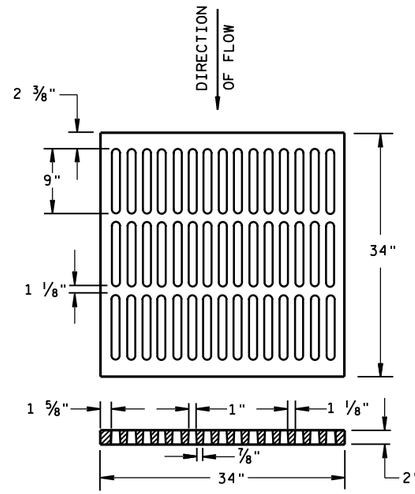
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

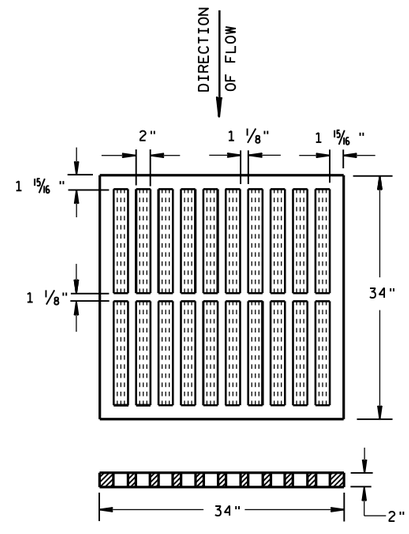
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



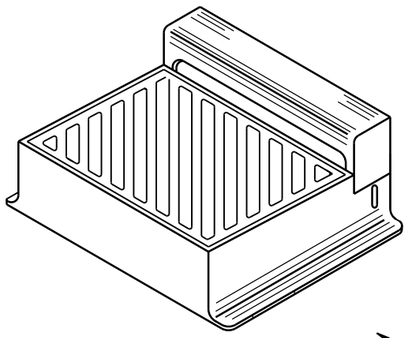
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

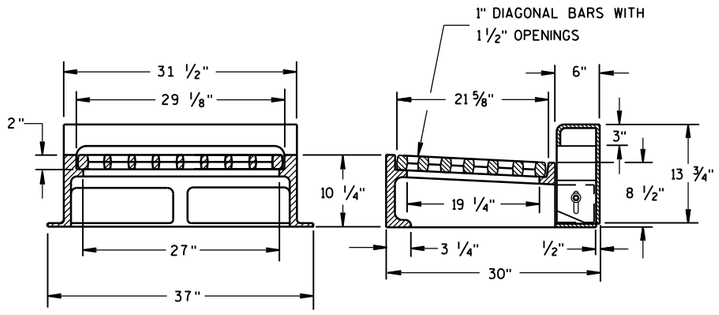


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

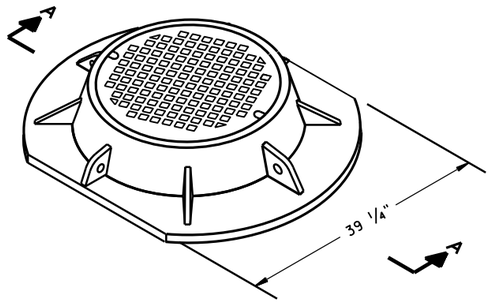
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

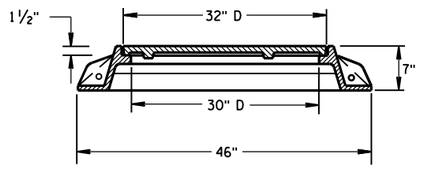
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

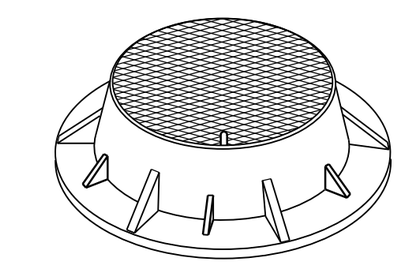
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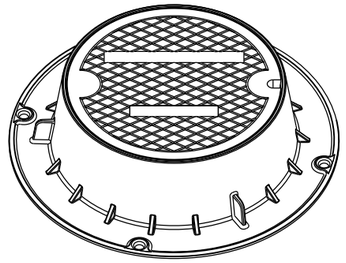
S.D.D. 8 A 5-19b

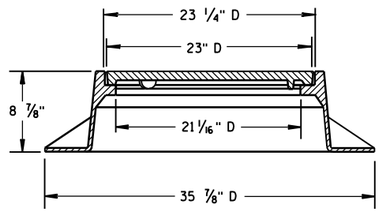


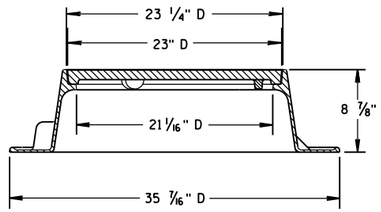


SECTION A-A
TYPE "K"









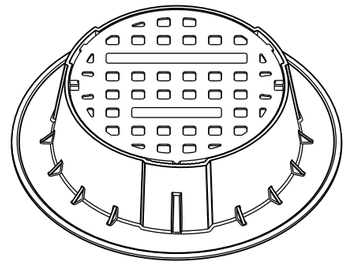
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

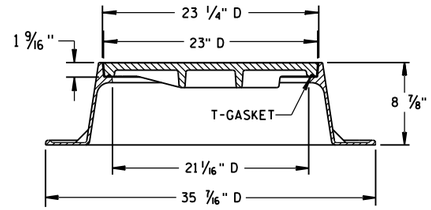
GENERAL NOTES

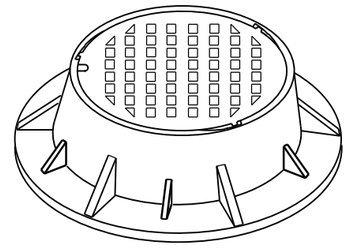
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

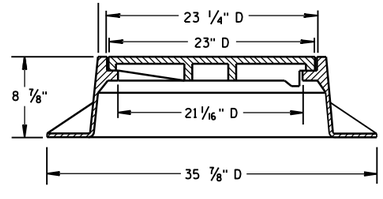
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

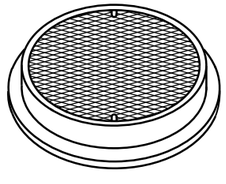


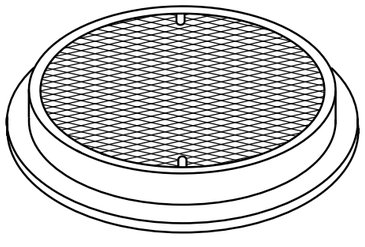


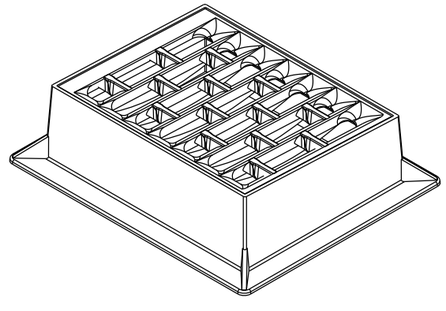


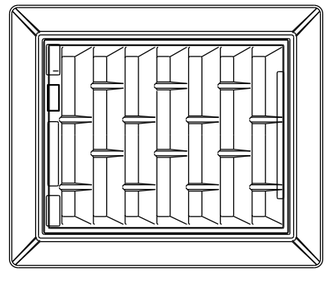


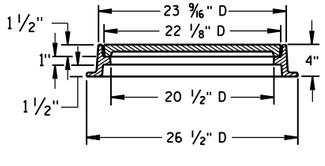
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



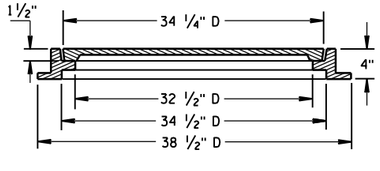




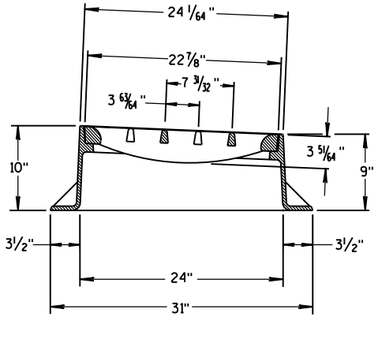


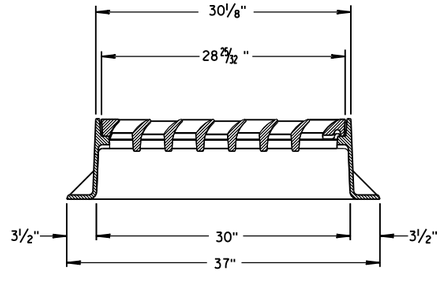


TYPE "L"



TYPE "M"





INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

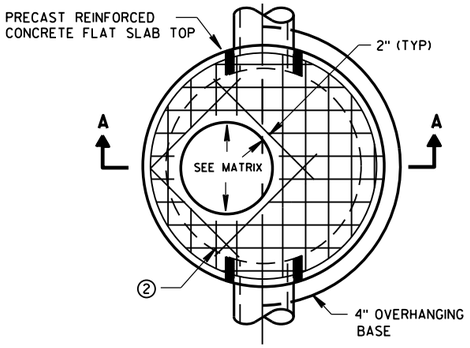
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

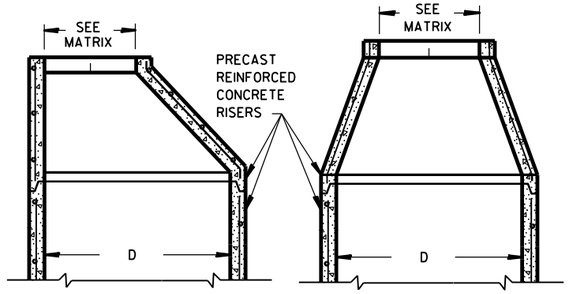
S.D.D. 8 A 5-19d

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S.D.D. 8 A 5-19d

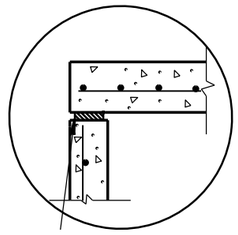


PLAN VIEW CIRCULAR OPENING

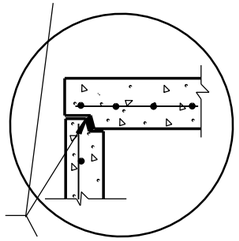


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

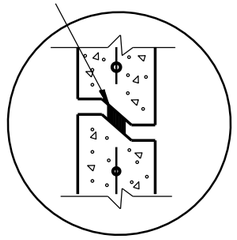


TOP WITH PLAIN END JOINT



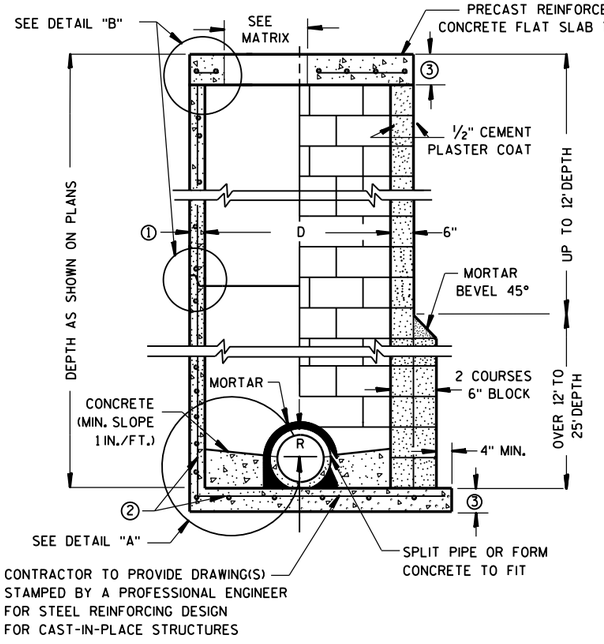
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



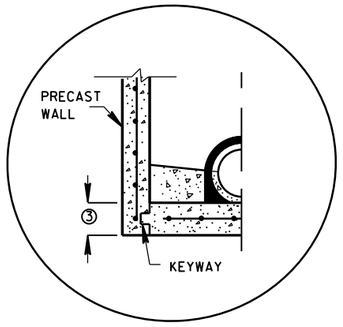
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

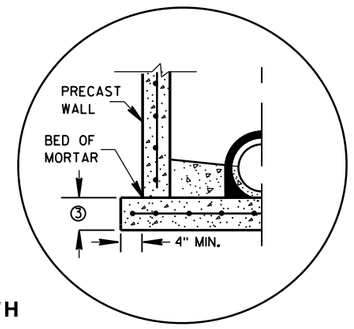


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

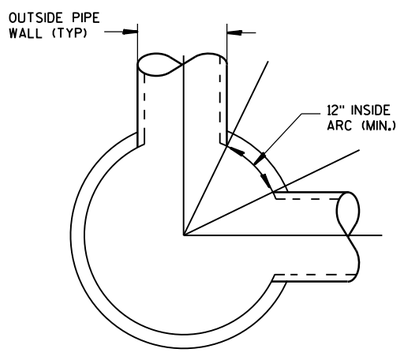


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

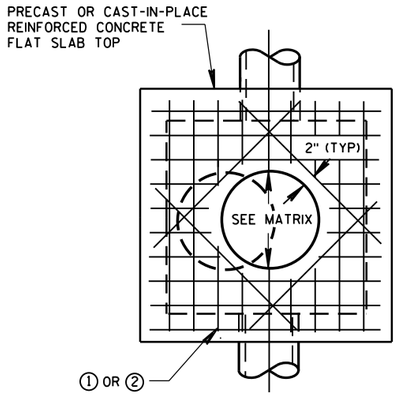
APPROVED

Sept., 2016
DATE

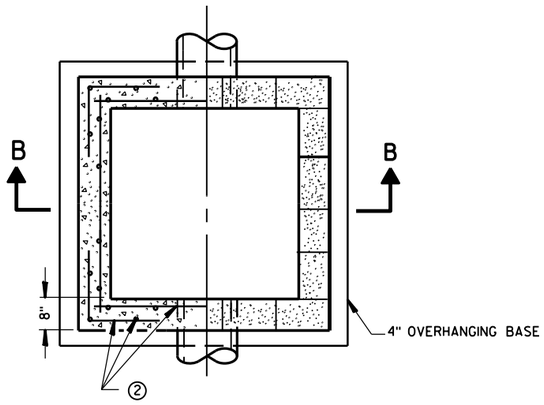
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

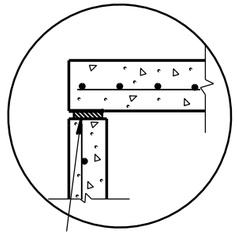
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S.D.D. 8 B 9-2



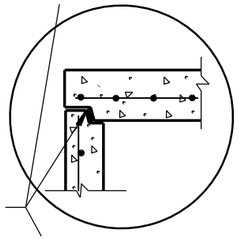
PLAN VIEW
CIRCULAR OPENING



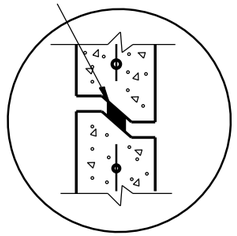
SECTION A-A
PLAN VIEW



TOP WITH PLAIN END JOINT

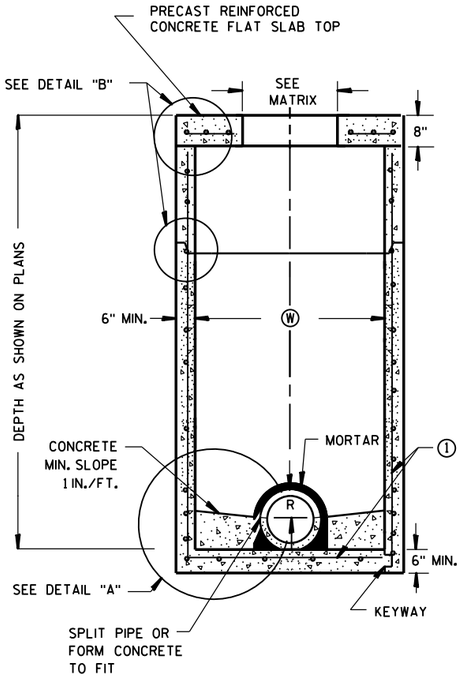


TOP WITH TONGUE AND GROOVE JOINT

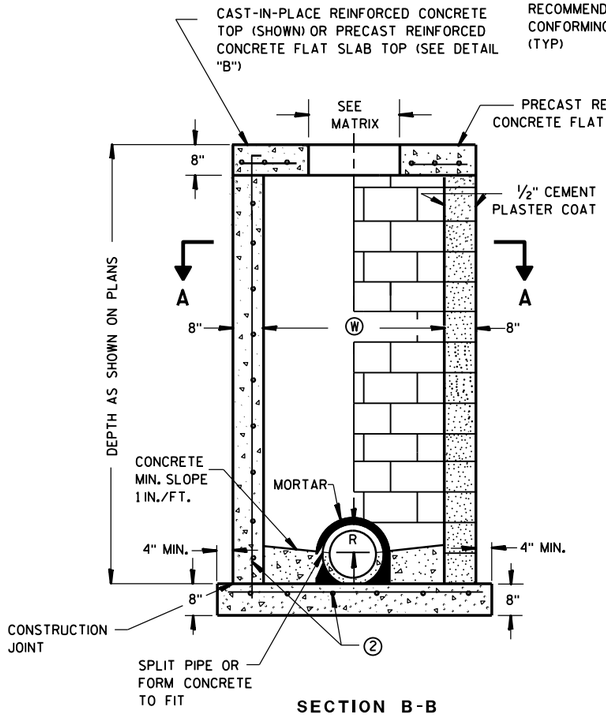


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

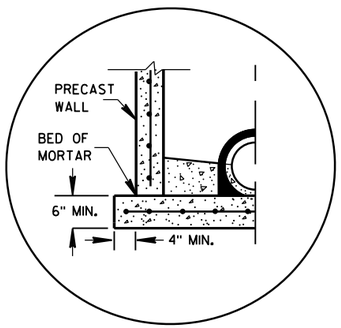


SECTION B-B

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

CAST-IN-PLACE REINFORCED CONCRETE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN WIDTH.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "C". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

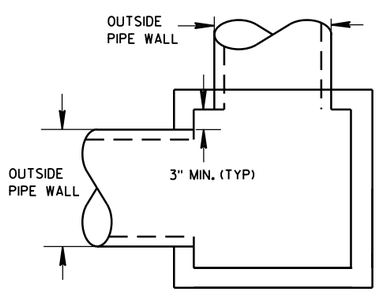
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (W) (IN)	LENGTH (L) (IN)
3X3-FT	24	24
4X4-FT	30	30
5X5-FT	42	42
6X6-FT	54	54



DETAIL "C"

SQUARE MANHOLES W/ FLAT TOP

MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT

MANHOLES 3X3-FT, 4X4-FT 5X5-FT AND 6X6-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

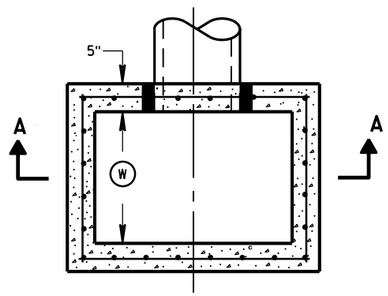
APPROVED
Sept., 2016
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS
UNIT SUPERV

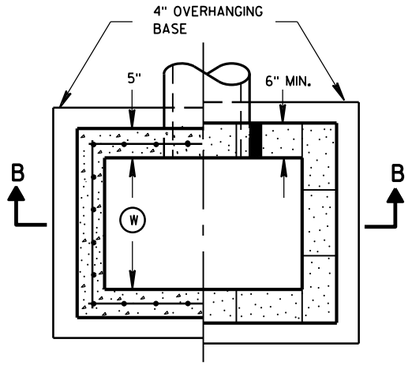
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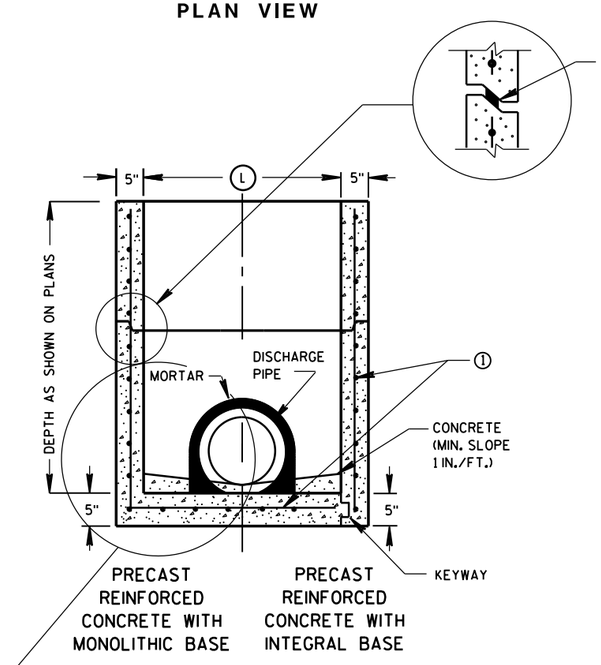
S.D.D. 8 B 10-2



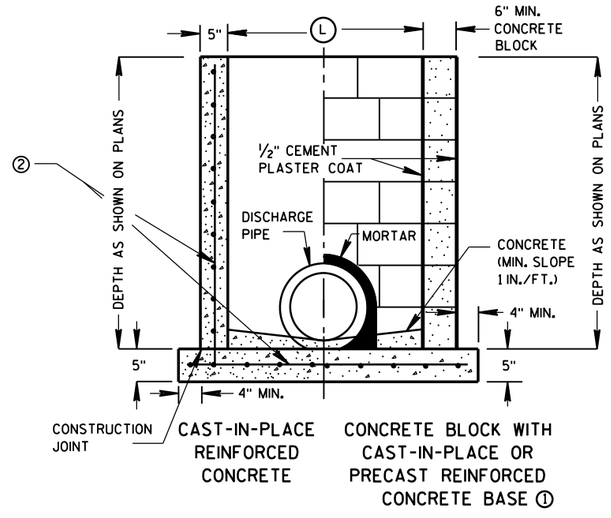
PLAN VIEW



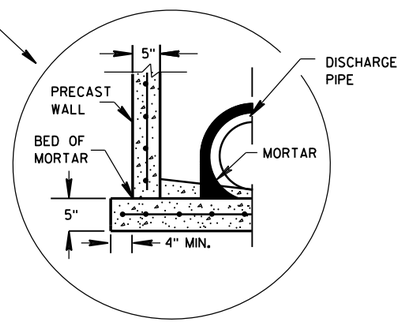
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

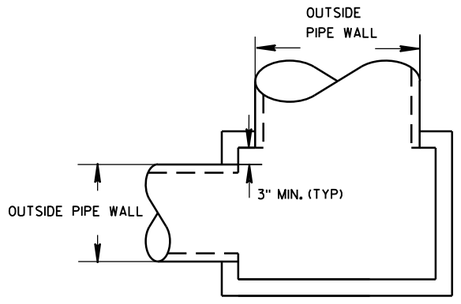
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



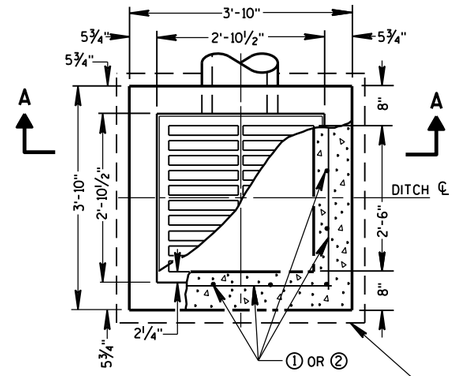
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

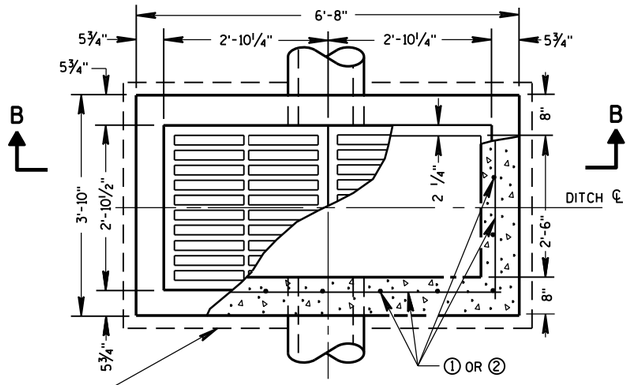
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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FHWA

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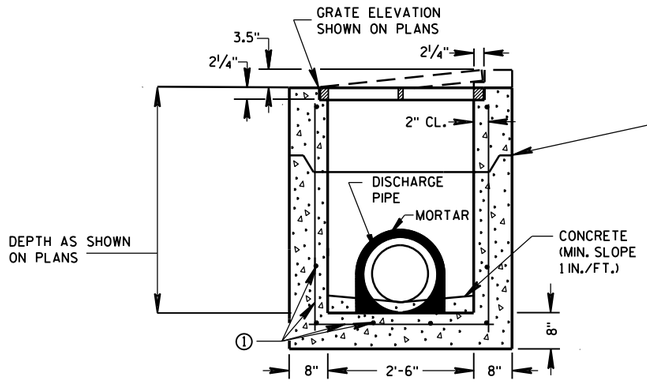


PLAN VIEW

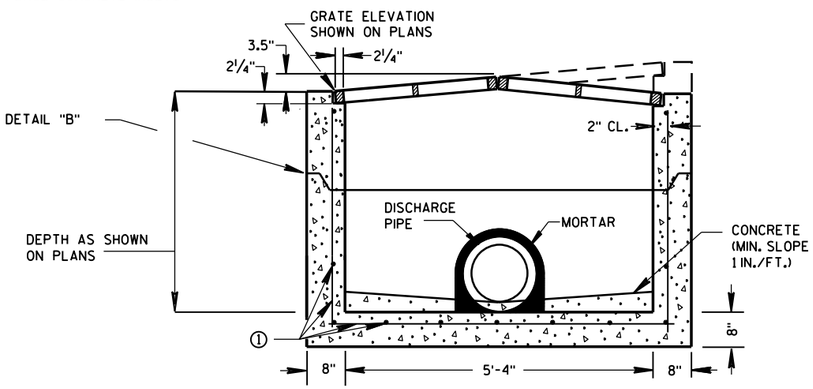


PLAN VIEW

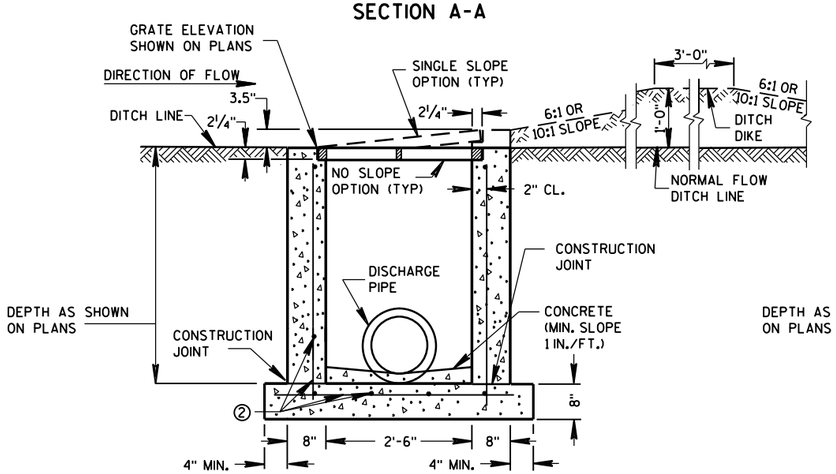
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



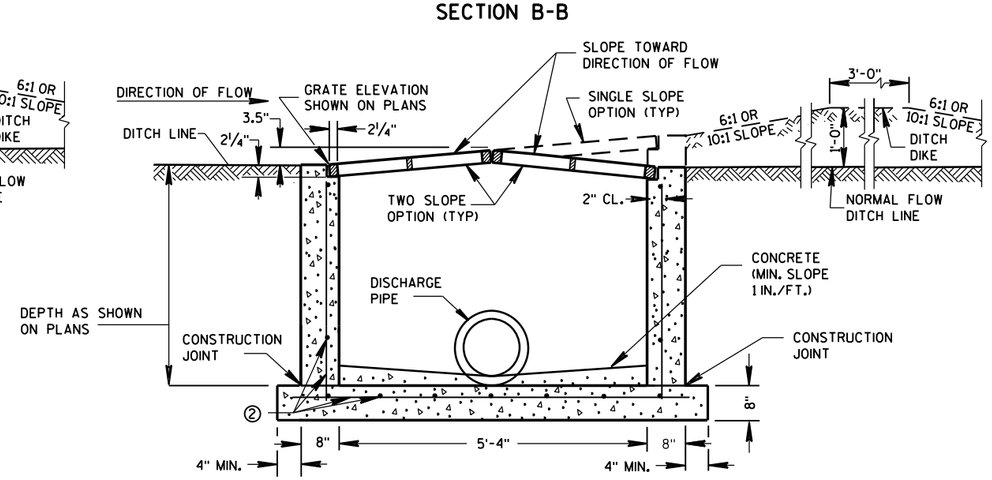
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

GENERAL NOTES

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BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

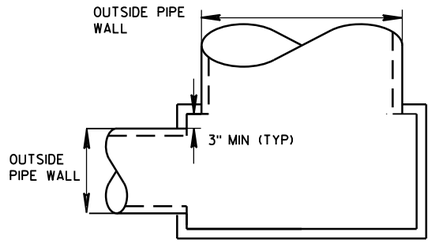
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

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② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

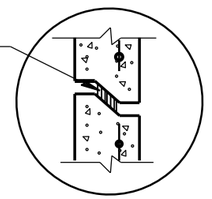
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

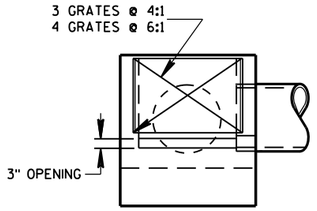
INLETS MEDIAN 1 AND 2 GRATE

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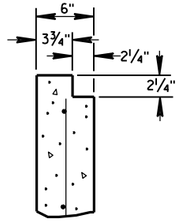
APPROVED
Sept., 2016 — DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVI ENT

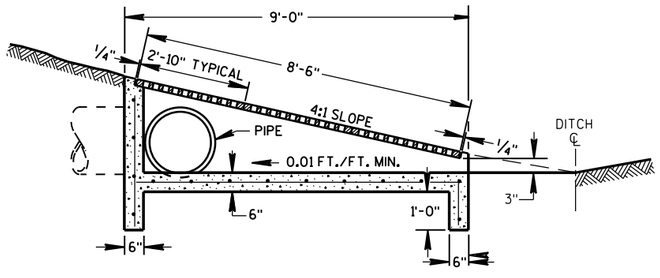
6
S.D.D. 8 C 8-2



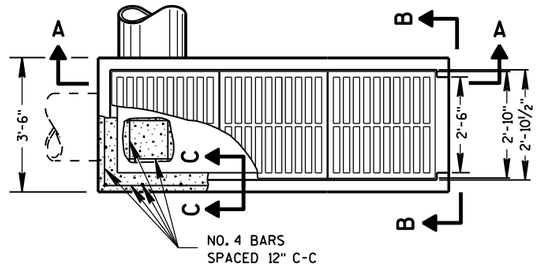
SECTION B-B



SECTION C-C

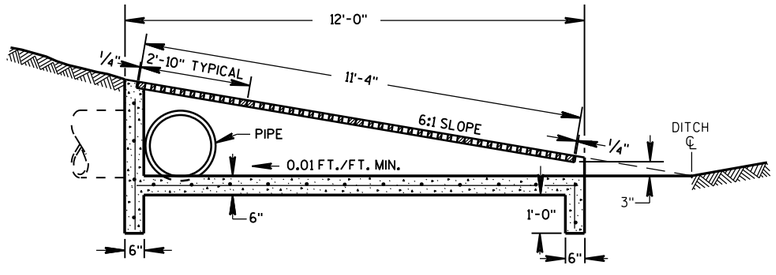


SECTION A-A

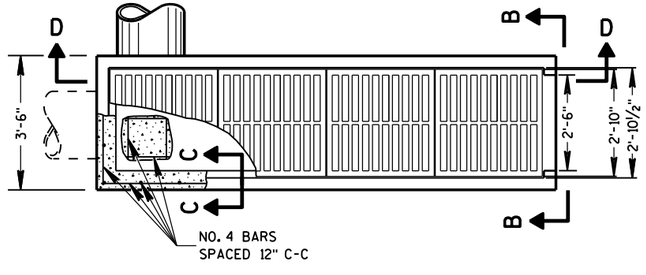


PLAN VIEW

INLETS MEDIAN 3 GRATE



SECTION D-D



PLAN VIEW

INLETS MEDIAN 4 GRATE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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6

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S.D.D. 8 C 9-2

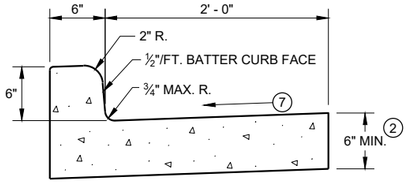
INLETS MEDIAN 3 AND 4 GRATE

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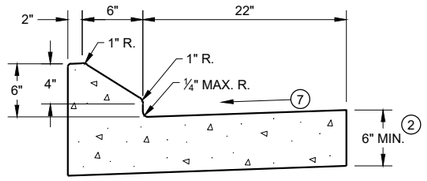
APPROVED
Sept., 2016
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS
UNIT SUPERVISOR

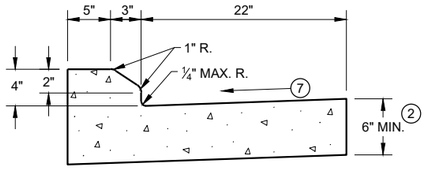
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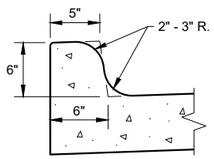
TYPES A[1] & D



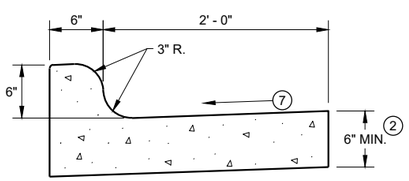
6" SLOPED CURB TYPES G[1] & J



4" SLOPED CURB TYPES G[1] & J

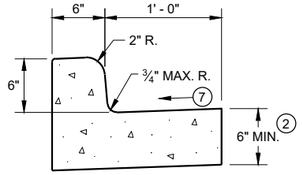


TYPES K[1] & L
(OPTIONAL CURB SHAPE)



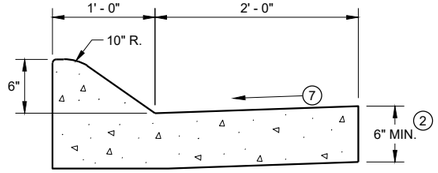
TYPES K[1] & L

CONCRETE CURB AND GUTTER 30"

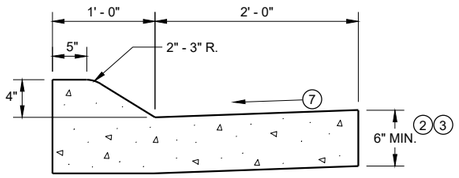


TYPES A[1] & D

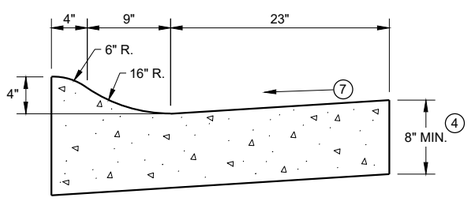
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A[1] & D



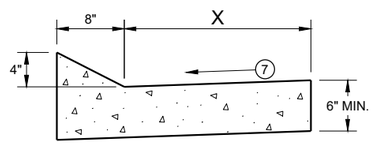
4" SLOPED CURB TYPES A[1] & D



4" SLOPED CURB TYPES R[1] & T[5]

CONCRETE CURB AND GUTTER 36"

TBT & TBTT	X
30"	22"
36"	28"

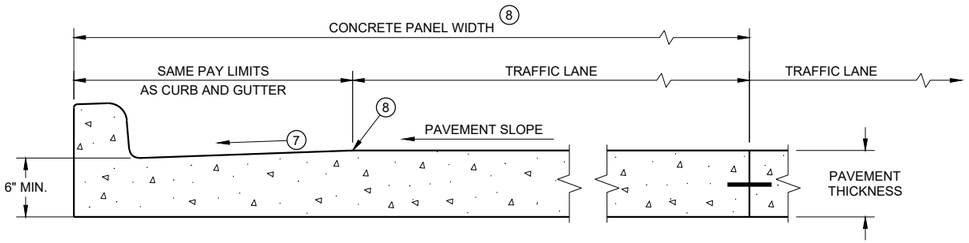


TYPES TBT & TBTT[1]

CONCRETE CURB AND GUTTER

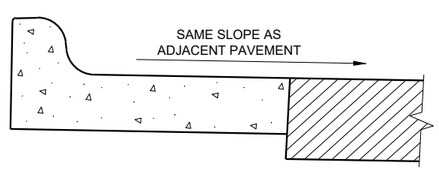
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER[6]
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

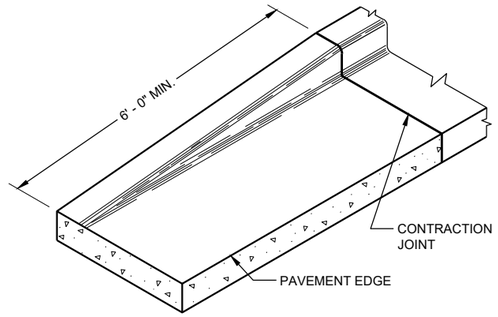
1. TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
2. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
3. USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
4. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
5. THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
6. WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
7. USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
8. INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

CONCRETE CURB AND GUTTER

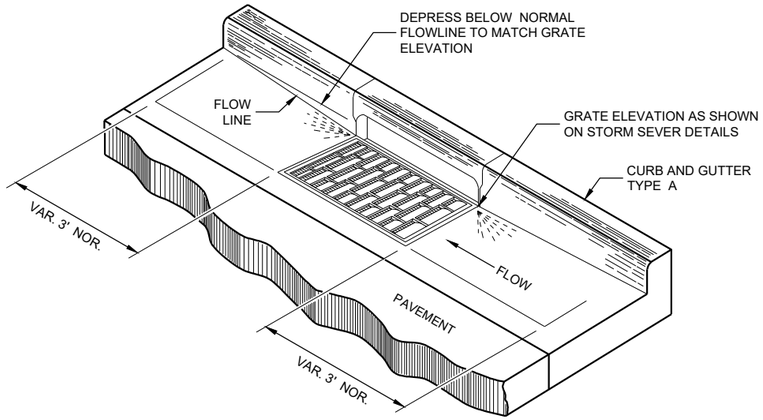
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D01 - 21a



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS
(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

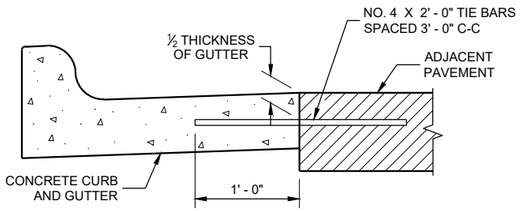
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

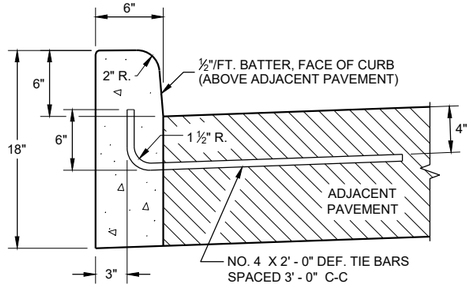
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

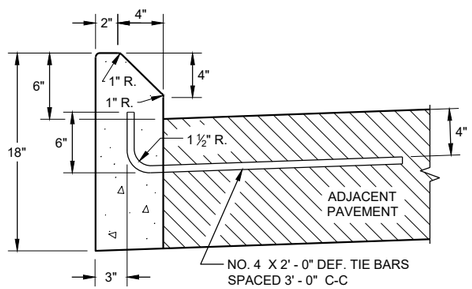
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

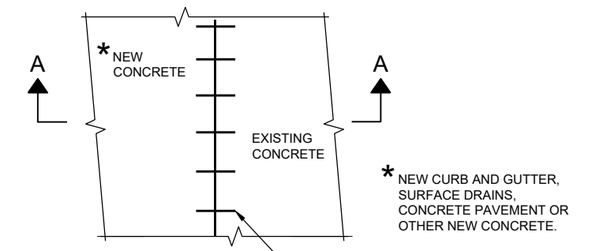


TYPES A (1) & D

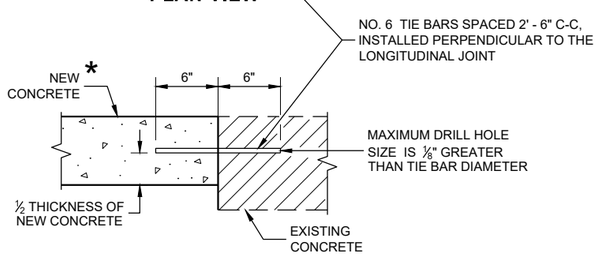


TYPES G (1) & J

CONCRETE CURB

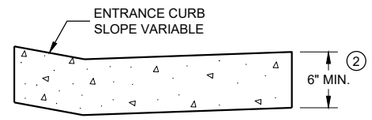


PLAN VIEW



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)
(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6

SDD08D01 - 21b

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

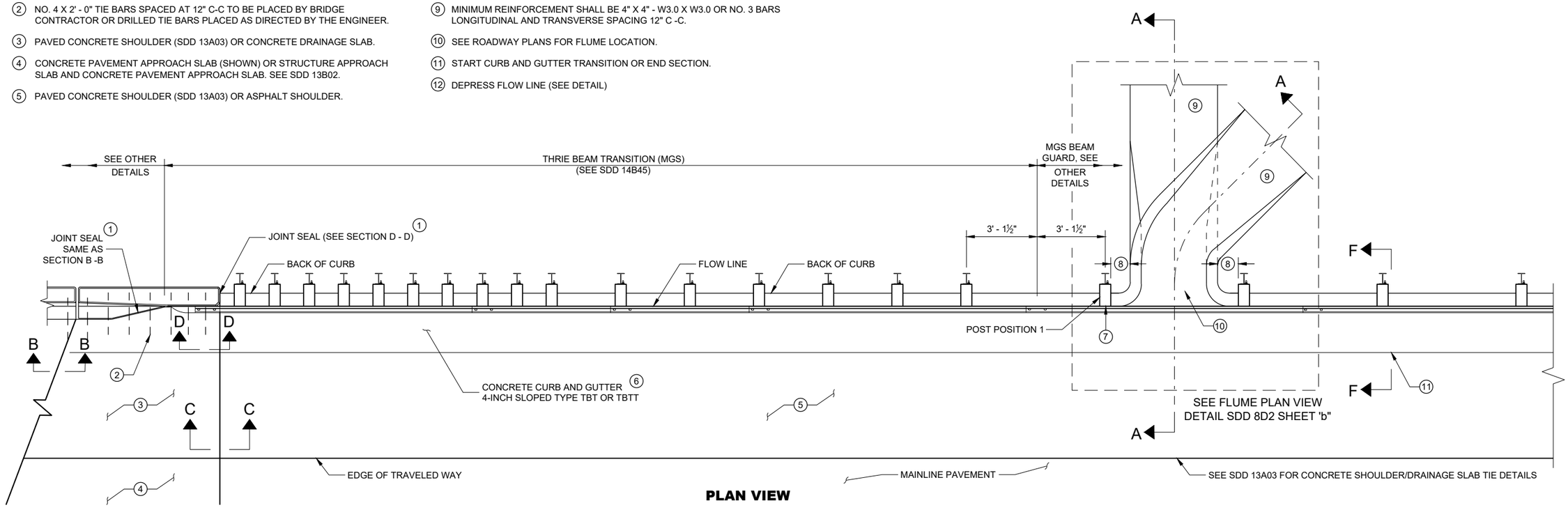
(8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.

(9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.

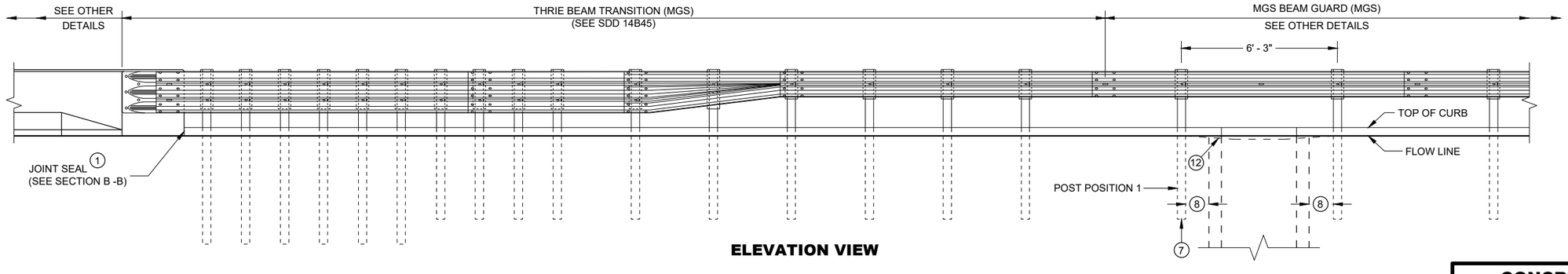
(10) SEE ROADWAY PLANS FOR FLUME LOCATION.

(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)



PLAN VIEW



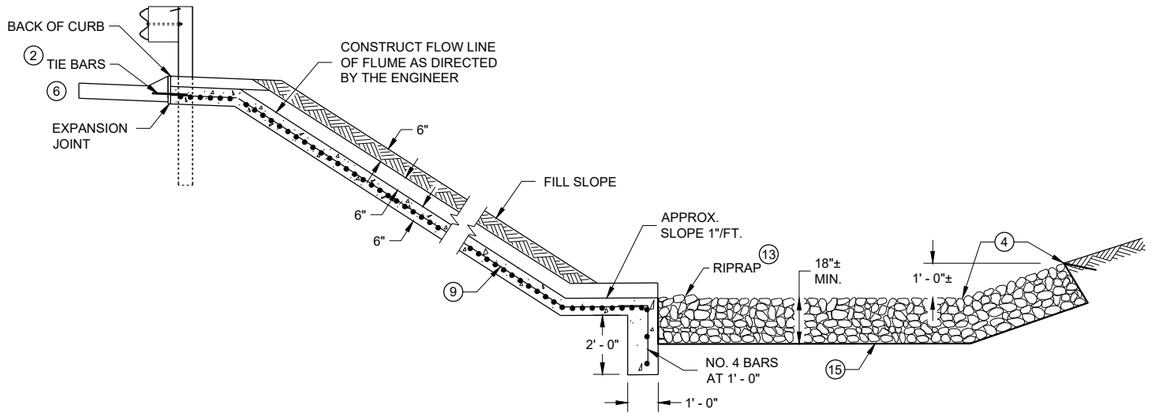
ELEVATION VIEW

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

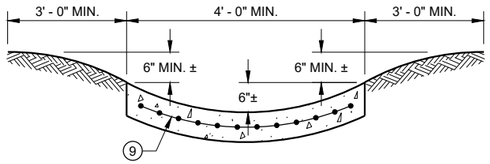
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D02 - 07a

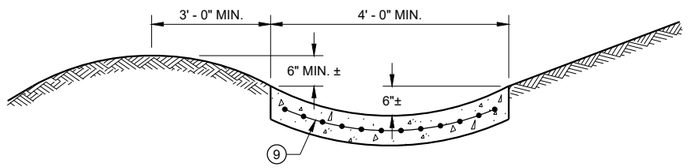
SDD 08D02 - 07a



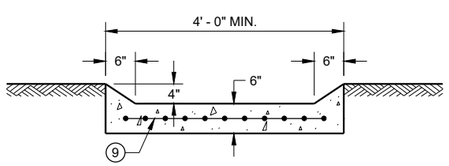
SECTION A - A



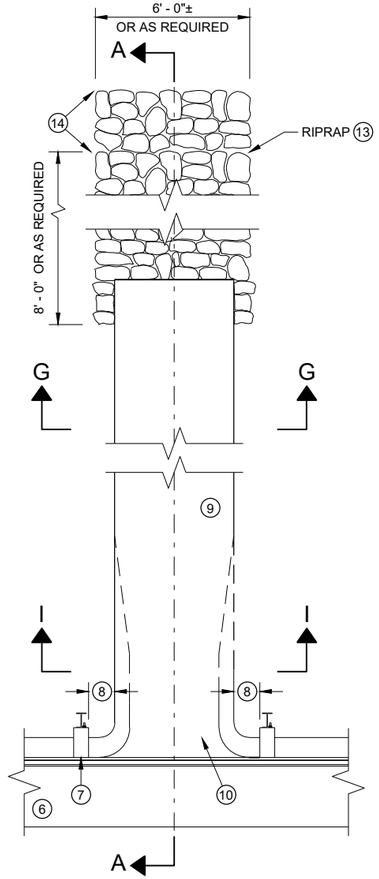
SECTION G - G



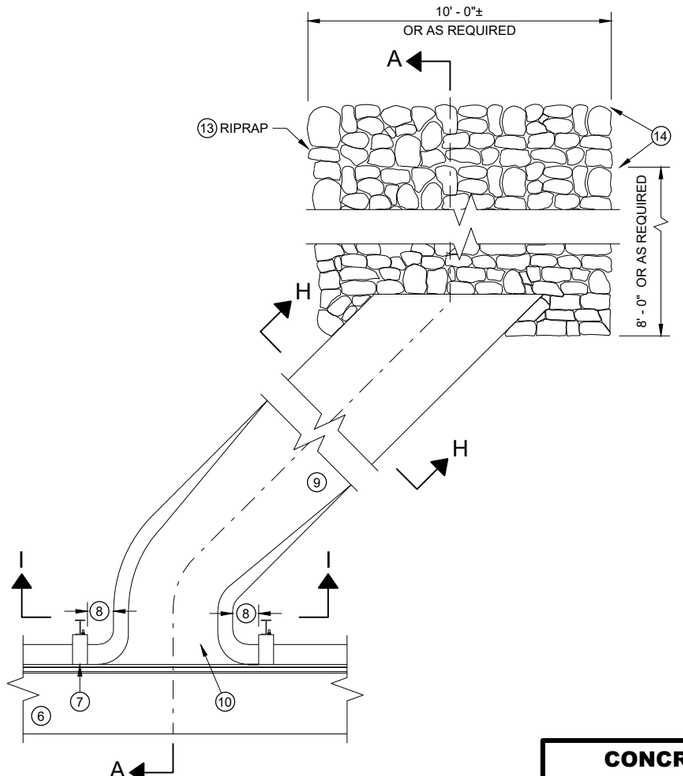
SECTION H - H



SECTION I - I



PLAN VIEW PERPENDICULAR FLUME



PLAN VIEW SKEWED FLUME

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)

(13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.

(14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH AS REQUIRED.

(15) GEOTEXTILE FABRIC TYPE HR.

6

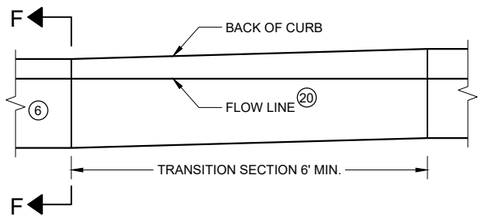
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SDD 08D02 - 07b

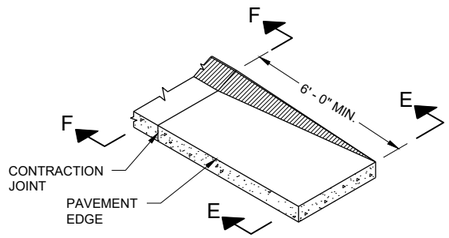
SDD 08D02 - 07b

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

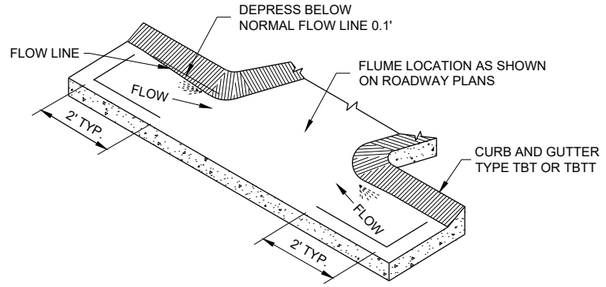
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA



**CURB AND GUTTER TRANSITION SECTION
CONCRETE CURB AND GUTTER 4-INCH SLOPED
36 INCH TYPE TBT OR TBTT**



**CURB AND GUTTER END SECTION
CONCRETE CURB AND GUTTER 4-INCH SLOPED
36 INCH TYPE TBT OR TBTT**



**CURB AND GUTTER FLOW LINE DEPRESSION
AT FLUMES CONCRETE CURB AND GUTTER
4-INCH SLOPED 36 INCH TYPE TBT OR TBTT**

GENERAL NOTES

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(13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.

(14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

(15) GEOTEXTILE FABRIC TYPE HR.

(16) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.

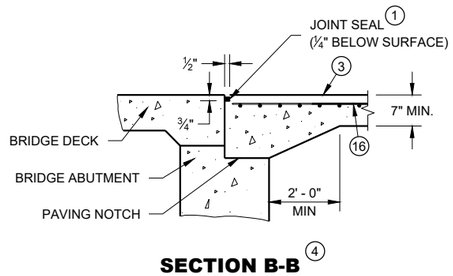
(17) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.

(18) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.

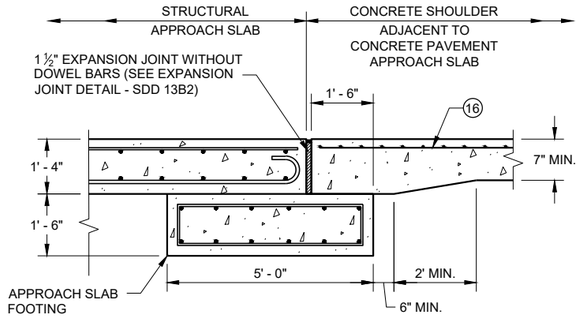
(19) ALIGN FACE OF POST BLOCK WITH FLOW LINE.

(20) MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.

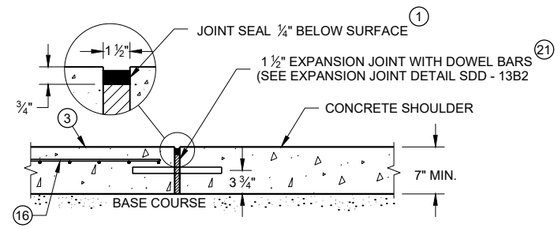
(21) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



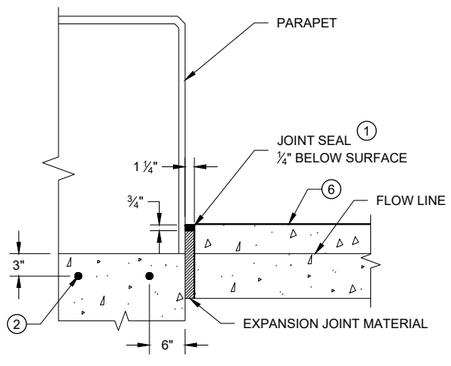
SECTION B-B



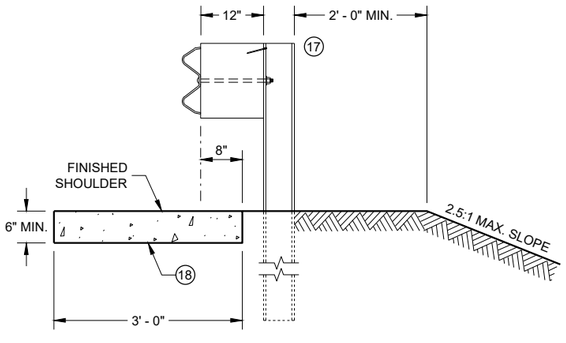
SECTION C - C
JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB



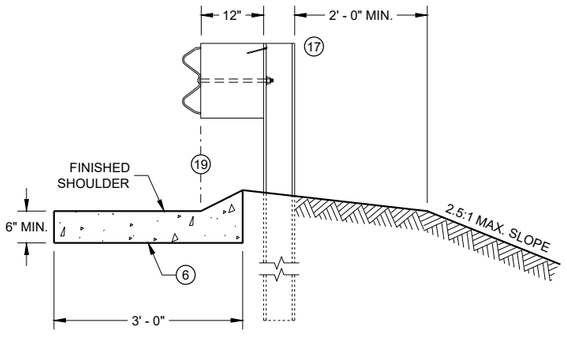
SECTION C - C
JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS



SECTION D - D



SECTION E - E



SECTION F - F

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

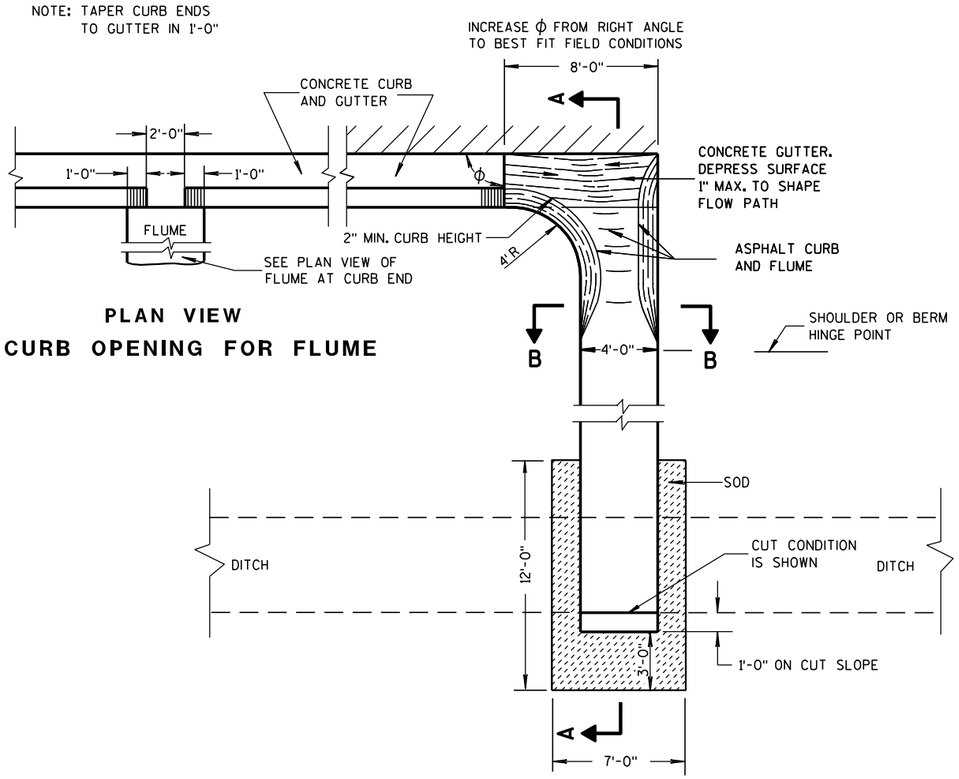
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

SDD 08D02 - 07c

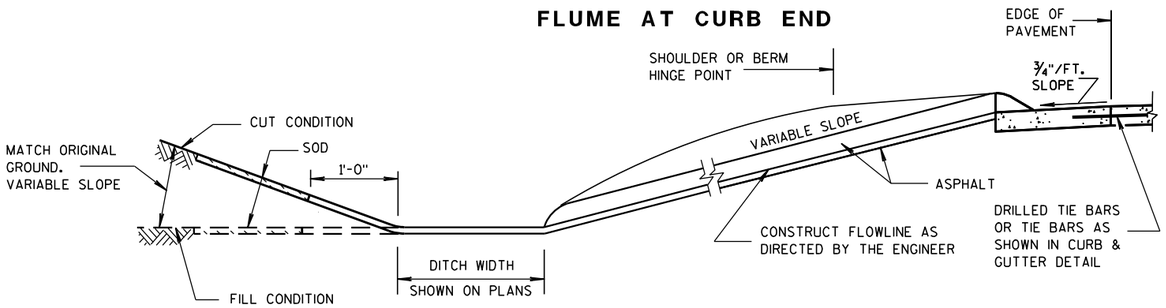
SDD 08D02 - 07c

ASPHALTIC FLUME

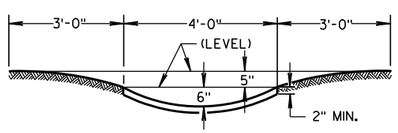


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

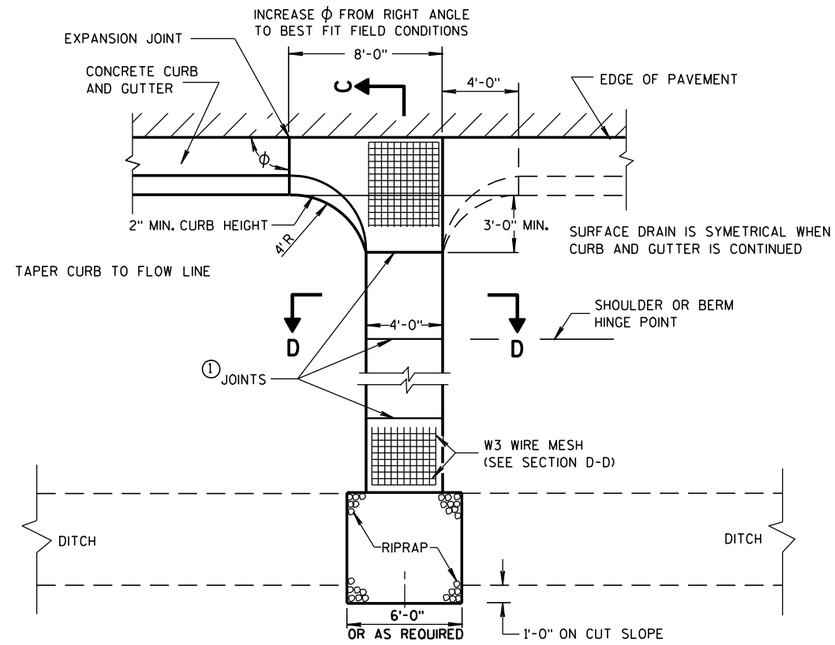
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE ⅛ TO ¼ INCH WIDE BY 1½ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

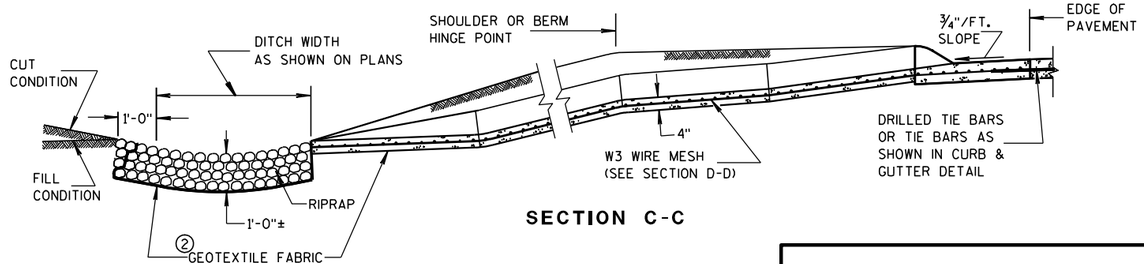
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

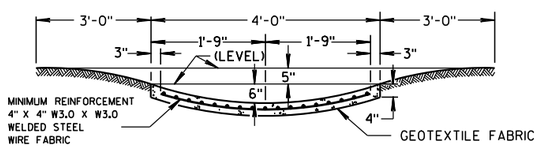
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

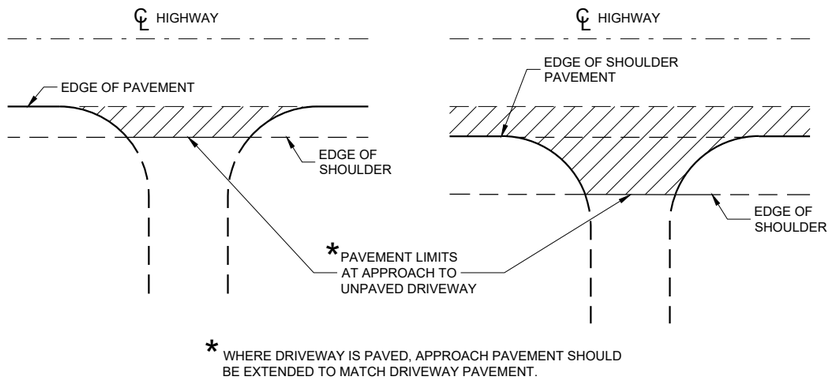
APPROVED
9-4-08 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
158
MENT
FHWA

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S.D.D. 8 D 4-5

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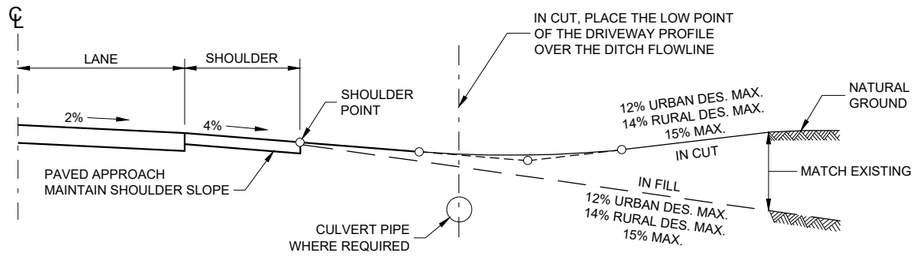
S.D.D. 8 D 4-5



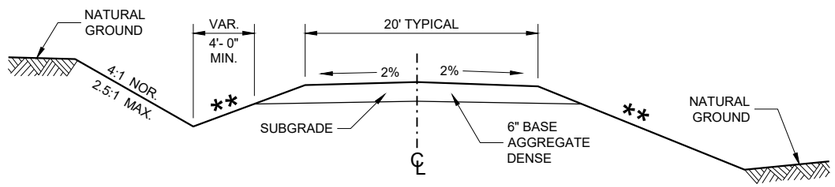
PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB AND GUTTER OR SIDEWALK)



TYPICAL DRIVEWAY PROFILES

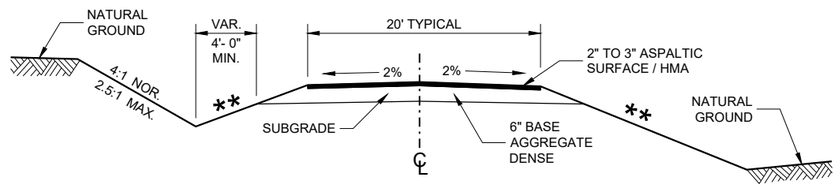


IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

** SLOPE CAN VARY WITH SPEED. SEE 11-45-30.6.2

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥ 35 TO < 60	6:1
≥60	10:1



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

6

6

SDD 08D21 - 01

SDD 08D21 - 01

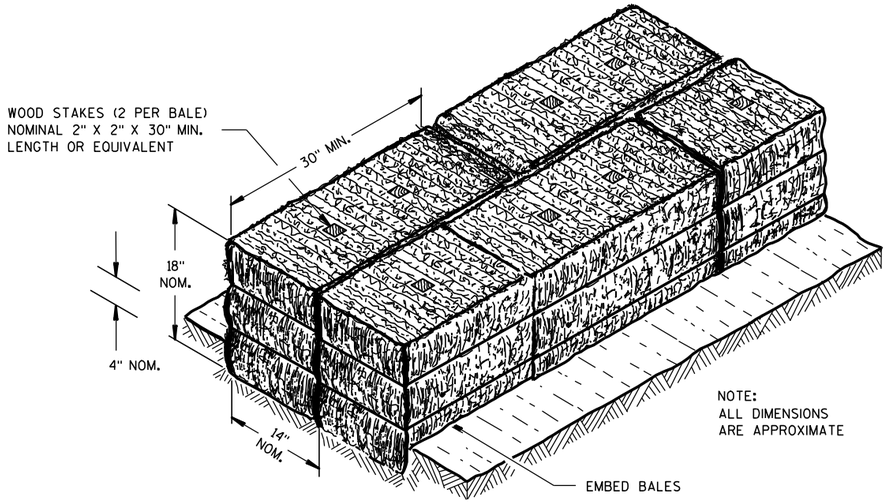
DRIVEWAYS WITHOUT CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

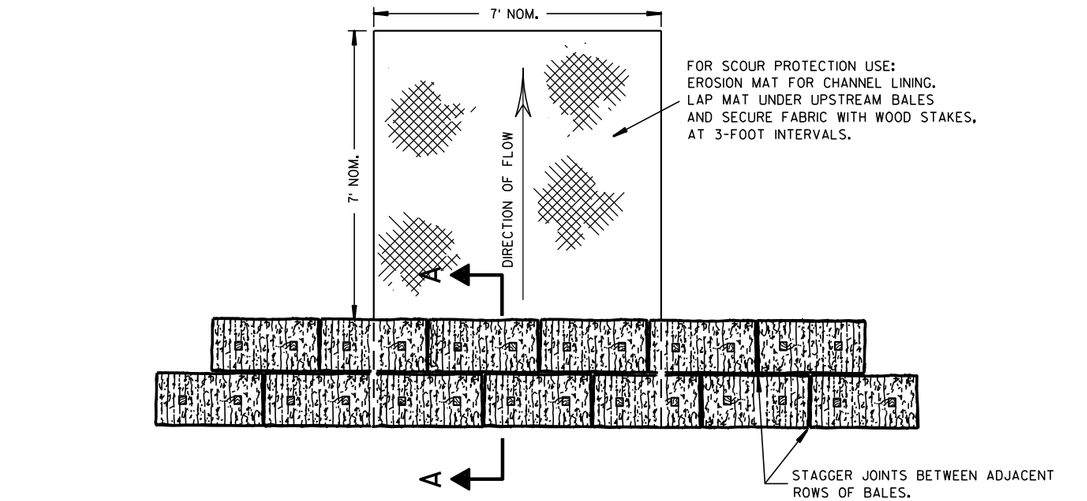
APPROVED
December 2017
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

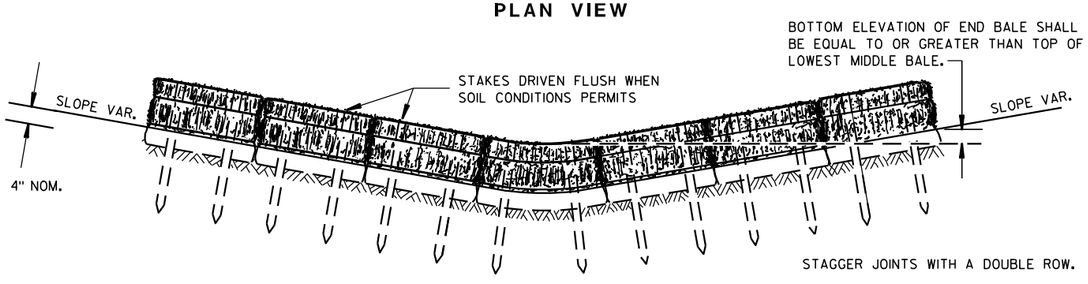
FHWA



SECTION A-A



PLAN VIEW



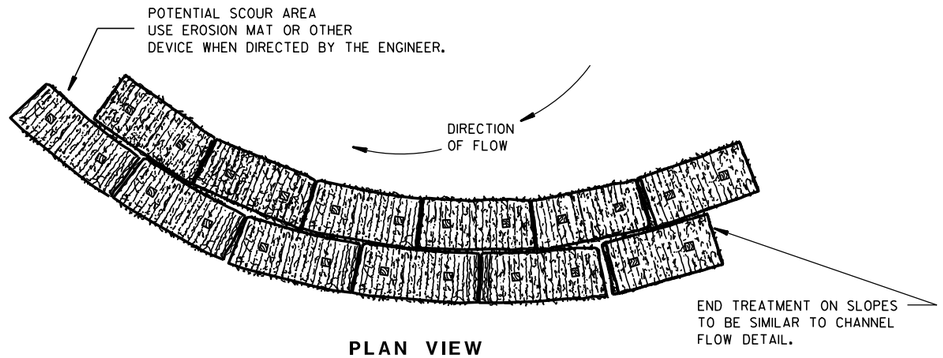
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

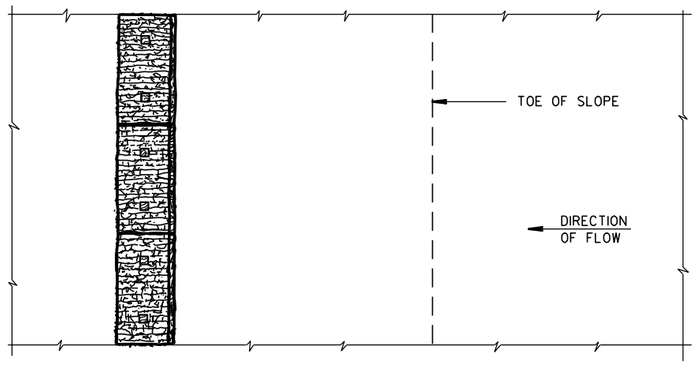
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

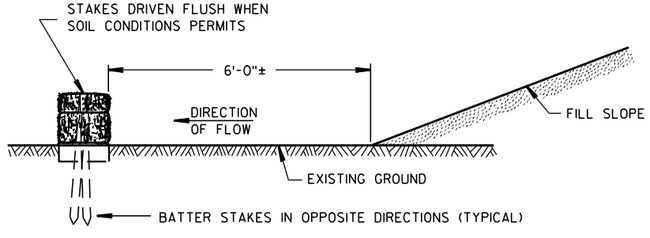


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

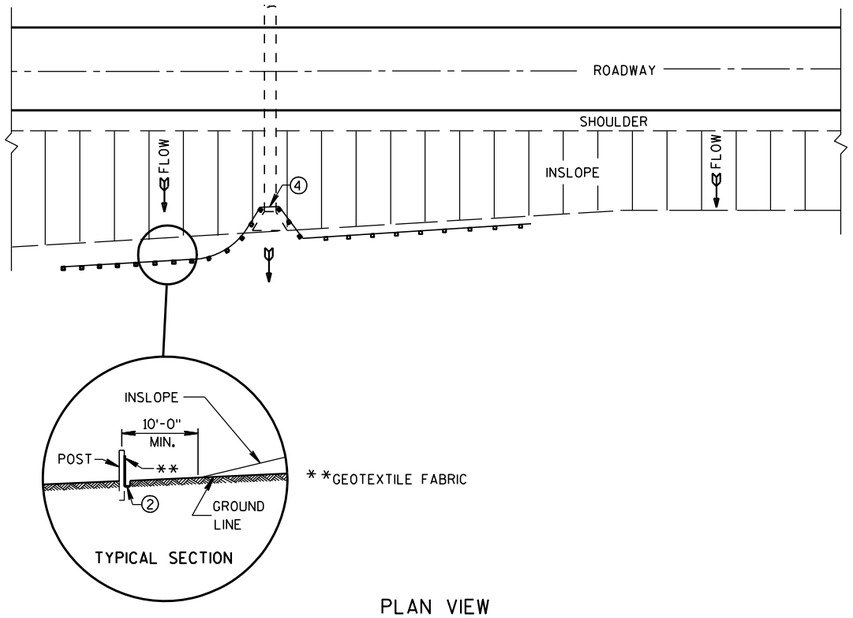
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

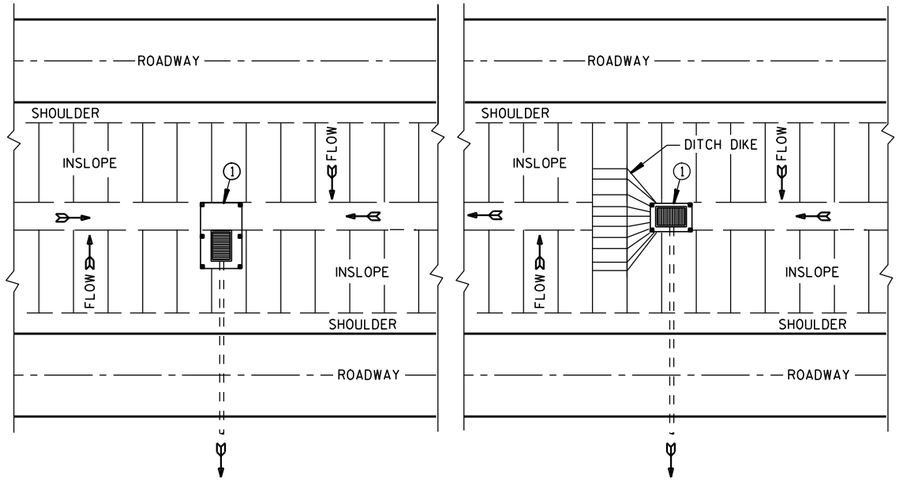
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



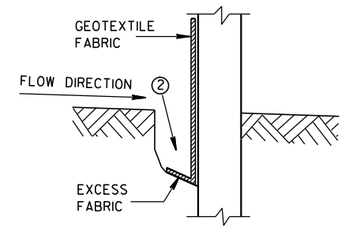
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

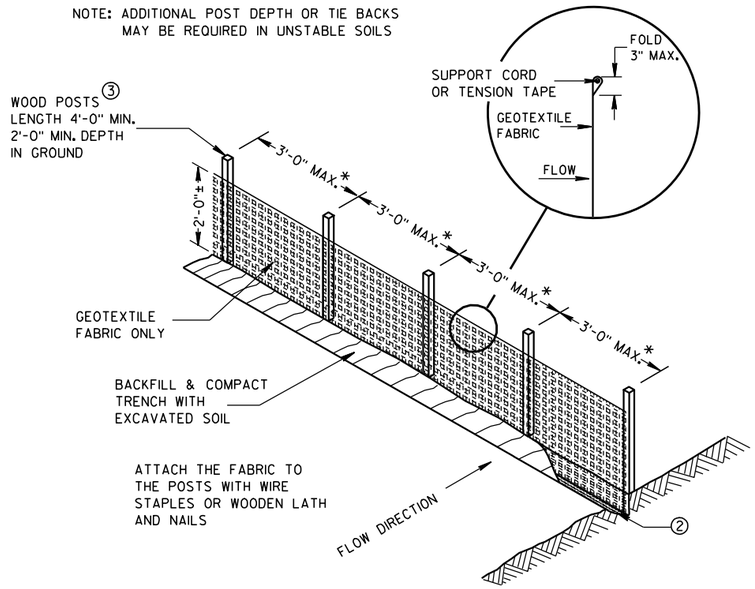
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

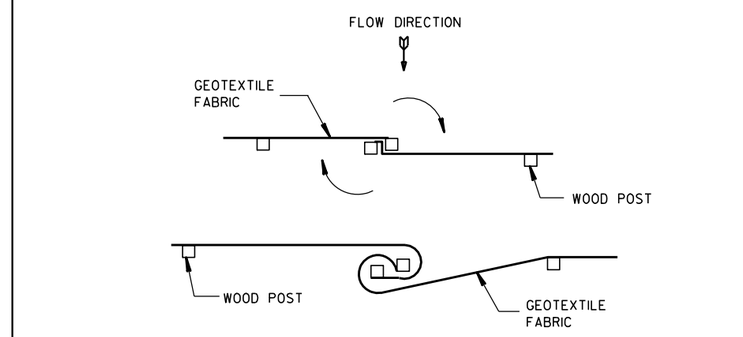


TRENCH DETAIL

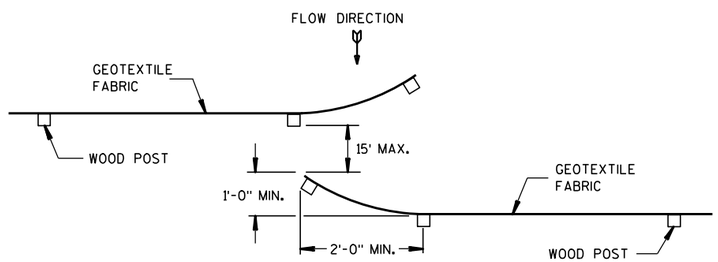


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

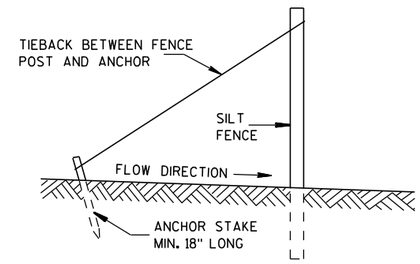


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

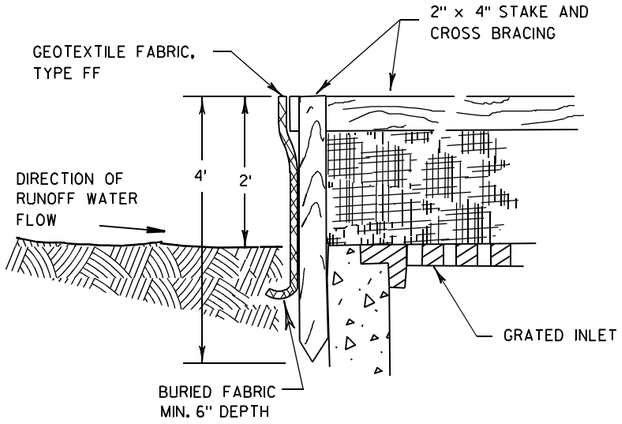
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

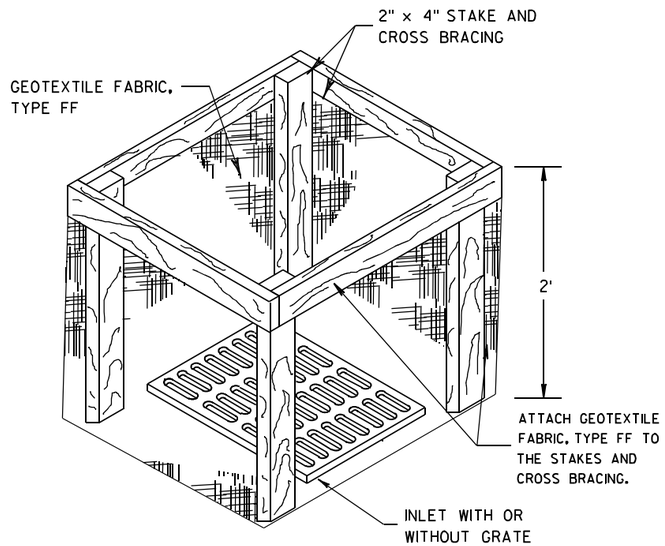
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S.D.D. 8 E 9-6

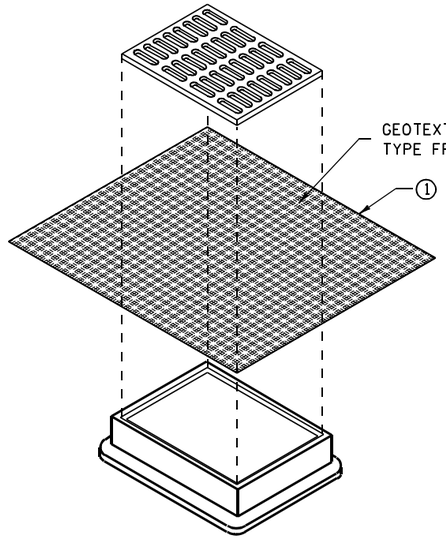
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S.D.D. 8 E 9-6



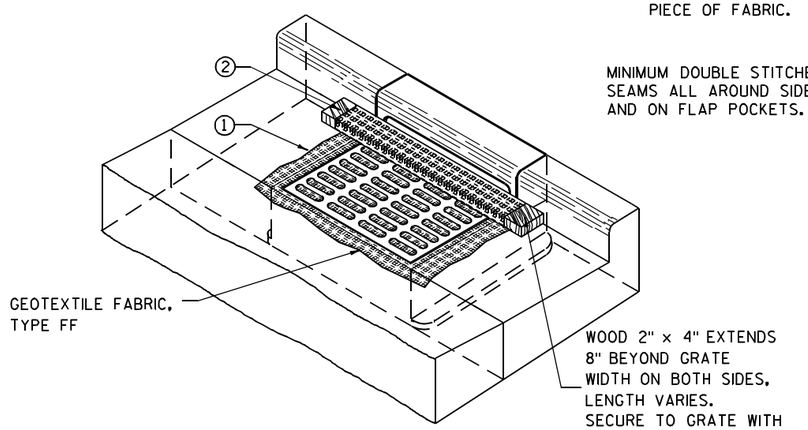


INLET PROTECTION, TYPE A

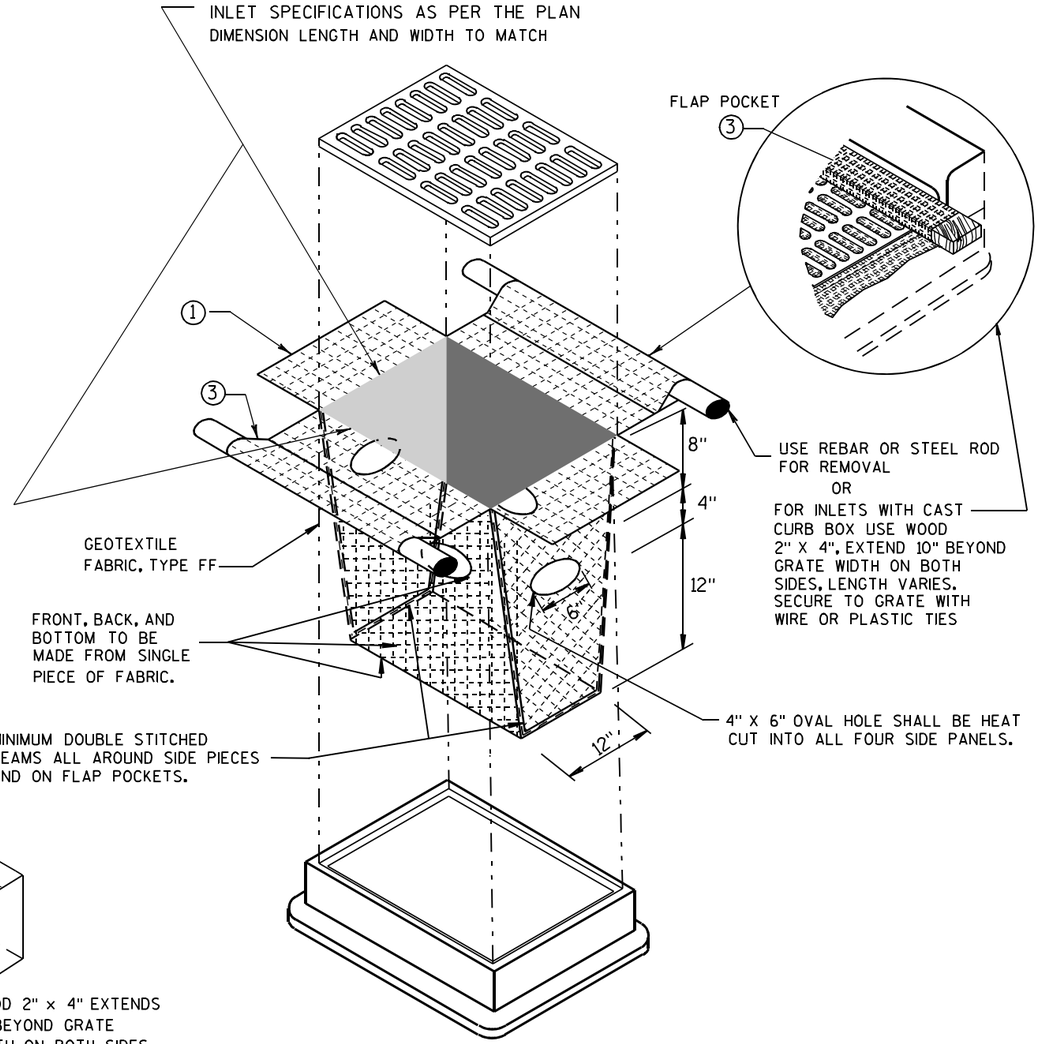


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

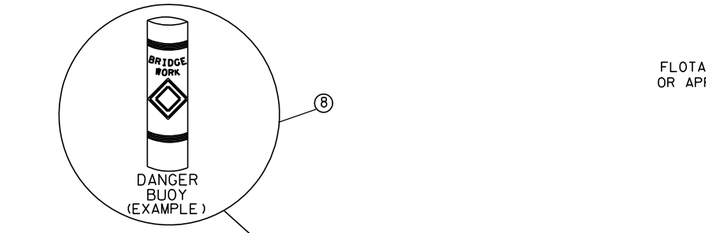
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

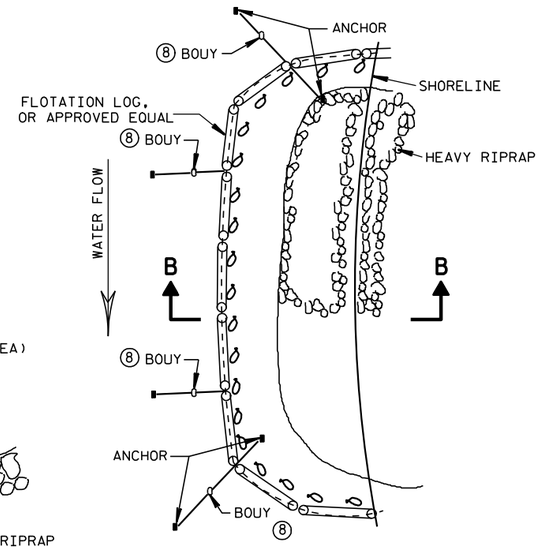
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

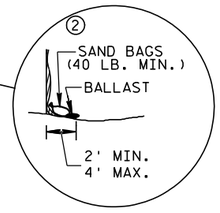
APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2

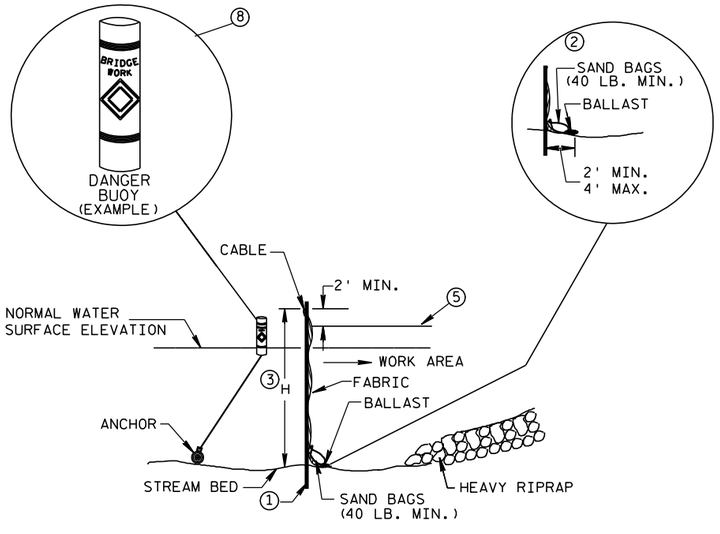


SECTION B-B

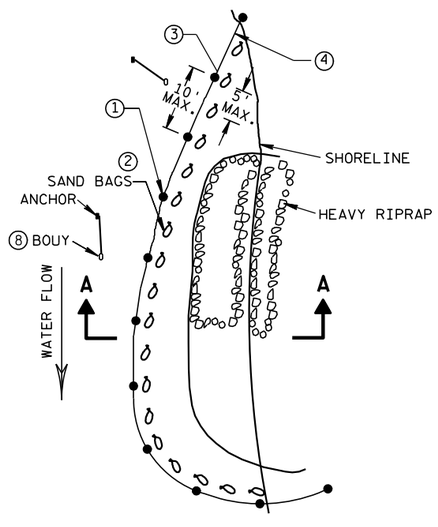




TURBIDITY BARRIER FLOAT ALTERNATIVE
CAUTION - SEE NOTE 6



SECTION A-A



PLAN VIEW

TURBIDITY BARRIER STANDARD POST INSTALLATION

TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.

② SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.

③ WHEN BARRIER HEIGHT, H, EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.

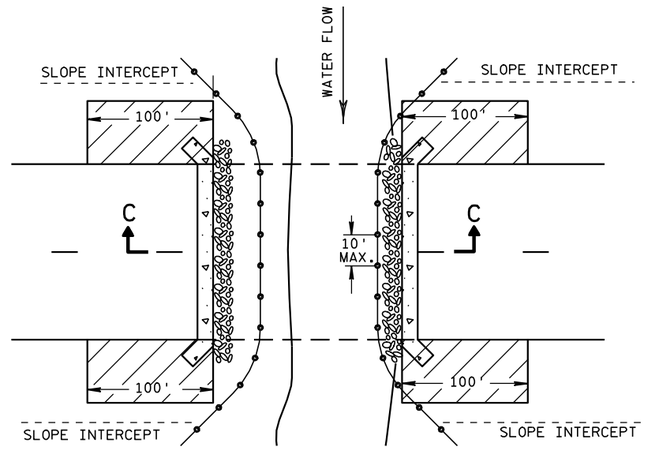
④ IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.

⑤ ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE O2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.

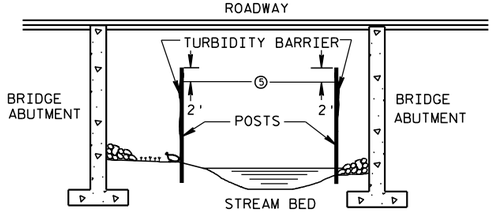
⑥ FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.

⑦ ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.

⑧ USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 11-2

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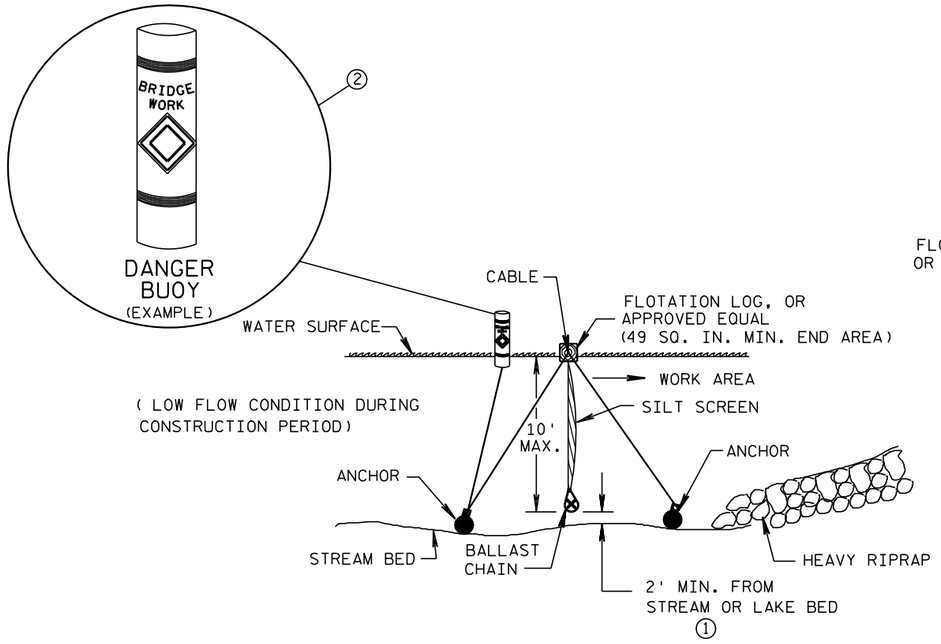
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GENERAL NOTES

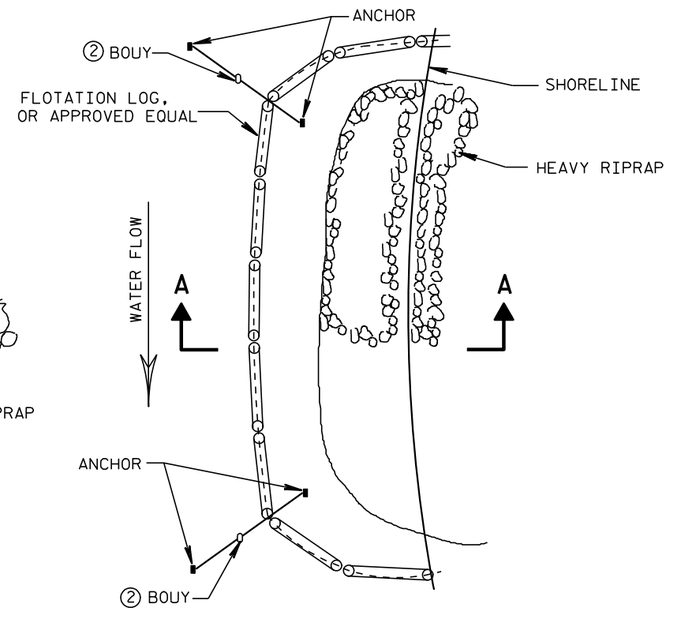
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① 2' MINIMUM SHALL BE MAINTAINED DURING CONSTRUCTION PERIOD.

② USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



SECTION A-A



PLAN VIEW

SILT SCREEN PLACEMENT DETAIL

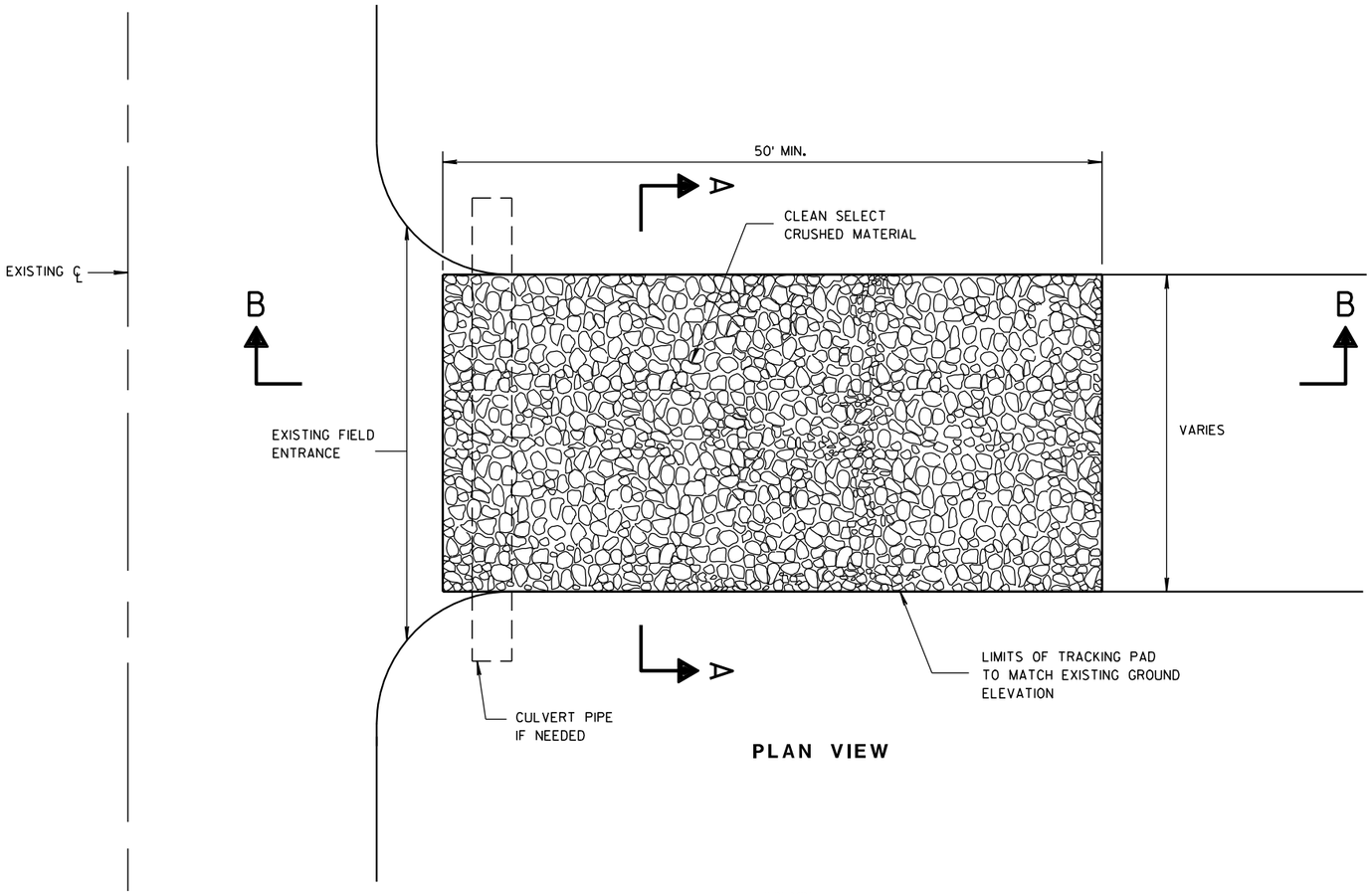
SILT SCREEN
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 6/04/02 DATE — /S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER FHWA

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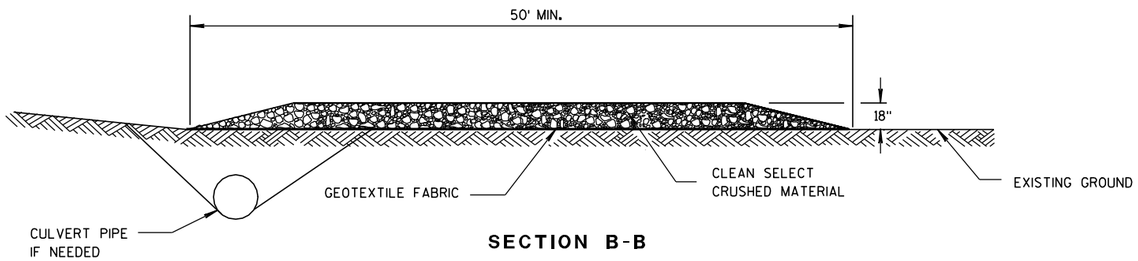
S.D.D. 8 E 12-1

6

S.D.D. 8 E 12-1



PLAN VIEW



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

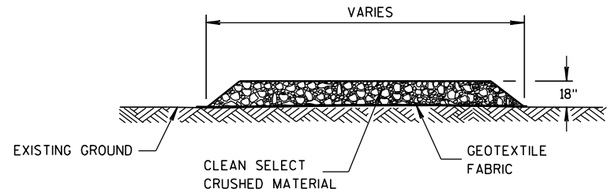
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

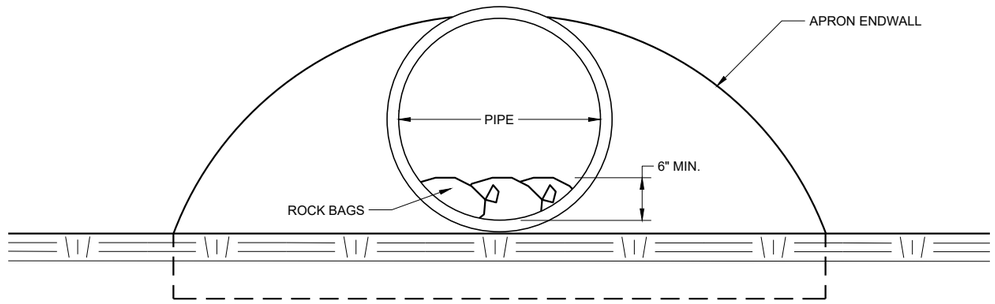
THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



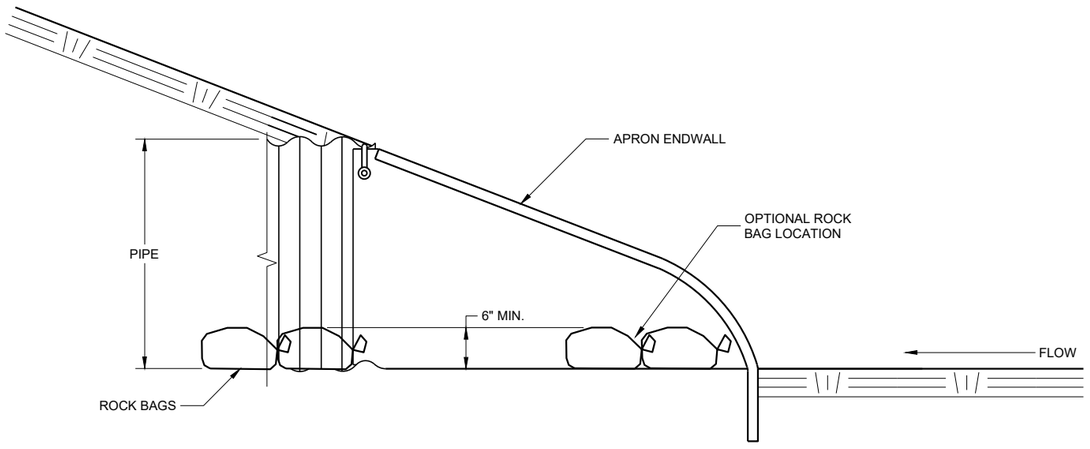
SECTION A-A

TRACKING PAD

TRACKING PAD	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 3/24/2011 DATE FHWA	/S/ Jerry H. Zoda ROADWAY STANDARDS ENGINEER



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Daniel Schave
EROSION CONTROL ENGI

FHWA

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SDD 08E15 - 01

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SDD 08E15 - 01

METAL APRON ENDWALLS

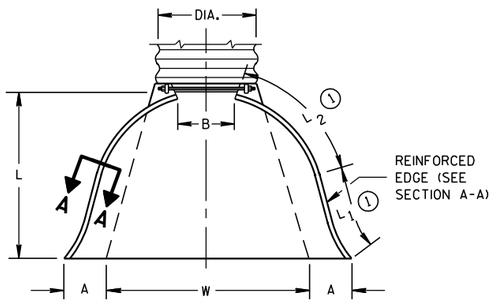
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

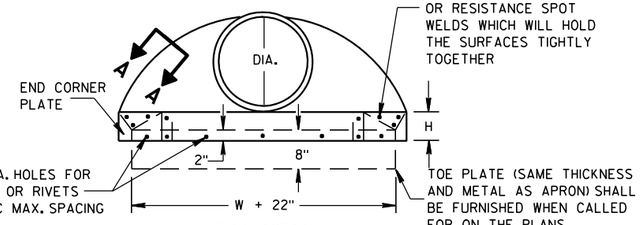
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

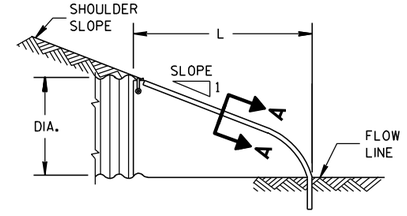
*MINIMUM
**MAXIMUM



PLAN VIEW

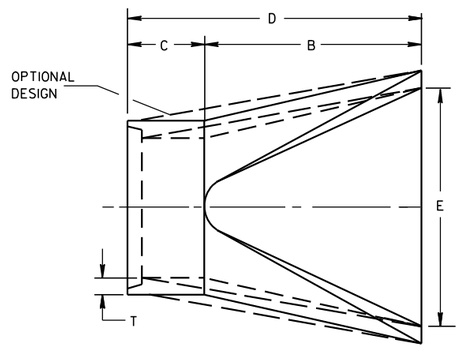


END VIEW

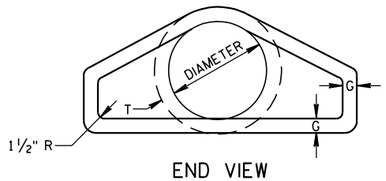


SIDE ELEVATION

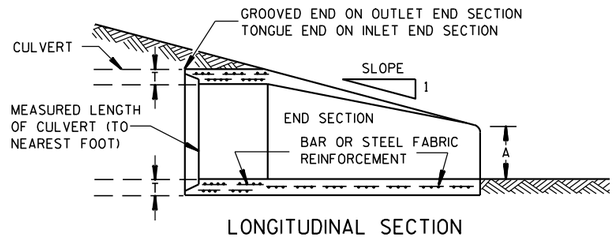
METAL ENDWALLS



PLAN

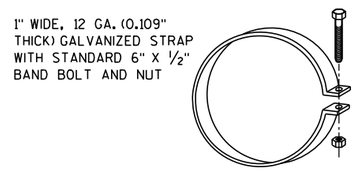


END VIEW



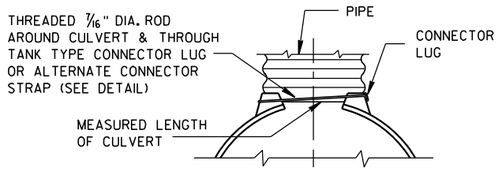
LONGITUDINAL SECTION

CONCRETE ENDWALLS

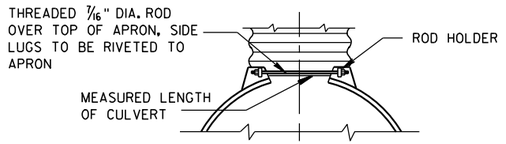


ALTERNATE FOR TYPE 1 CONNECTION

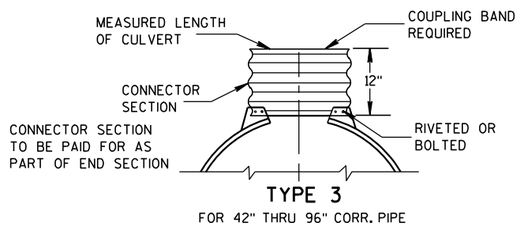
END SECTION CONNECTOR STRAP



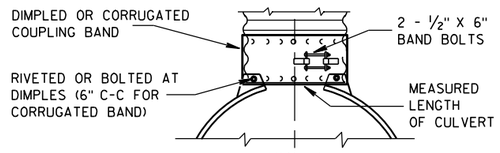
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

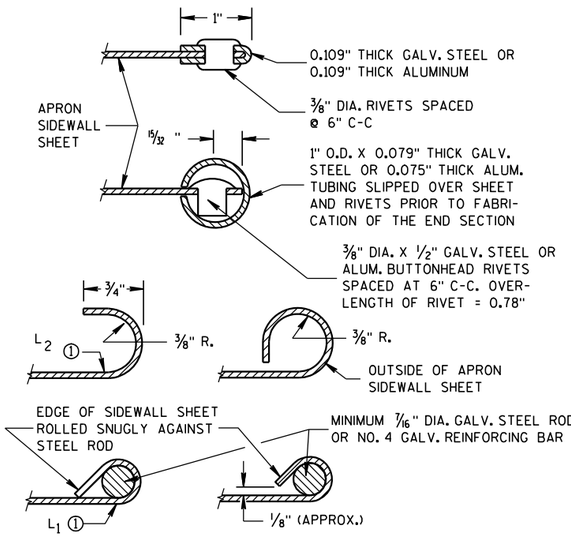
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

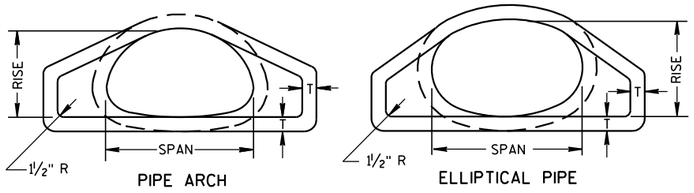
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

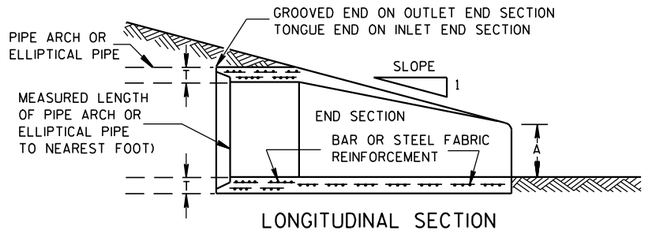
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

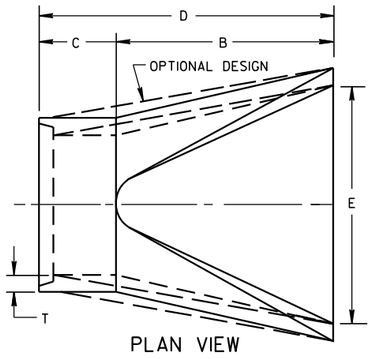
S.D.D. 8 F 1-11



END VIEW

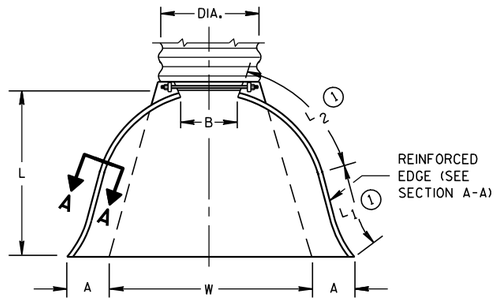


LONGITUDINAL SECTION

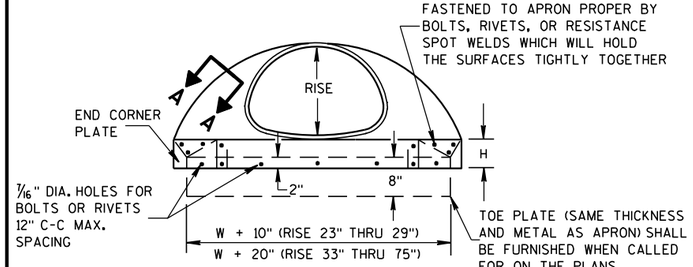


PLAN VIEW

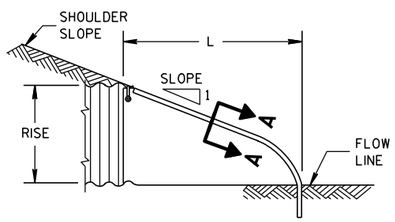
CONCRETE ENDWALLS



PLAN VIEW

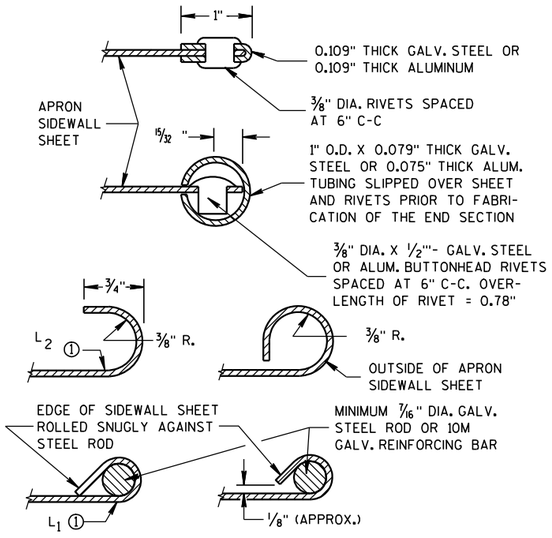


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

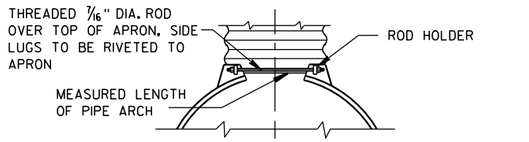
CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

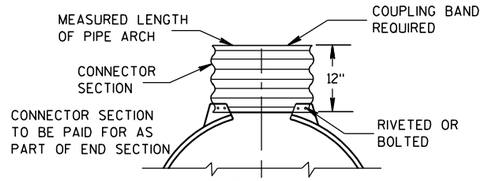
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



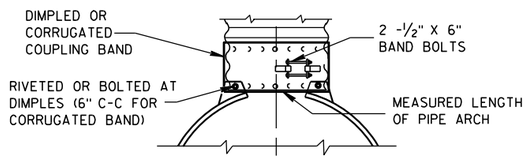
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

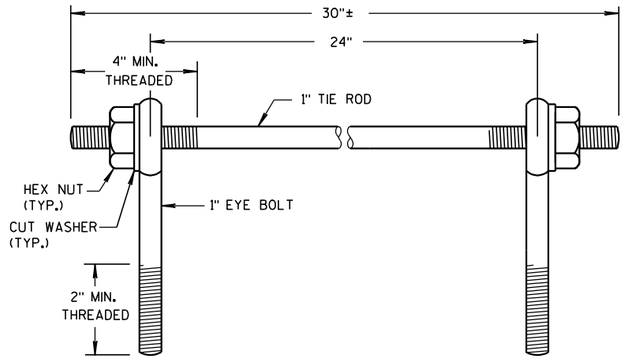
FHWA

6

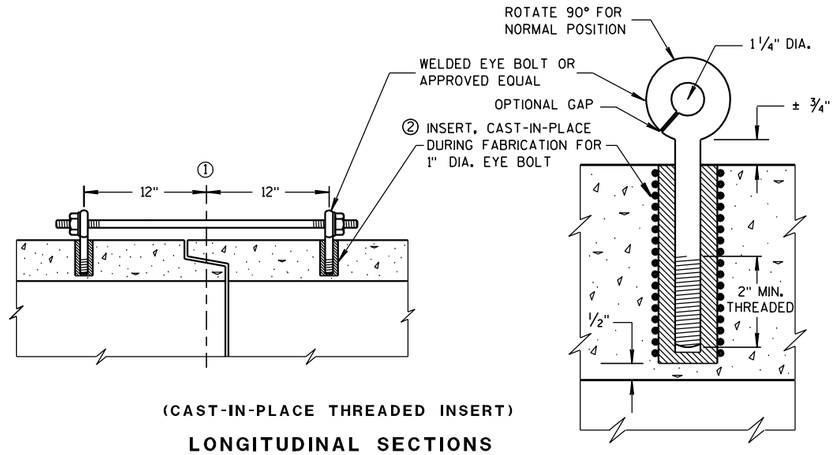
S.D.D. 8 F 2-1

6

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

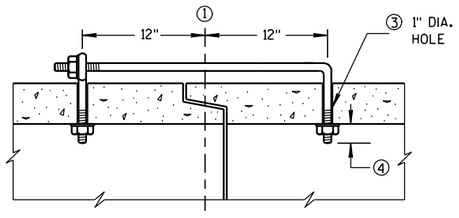
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

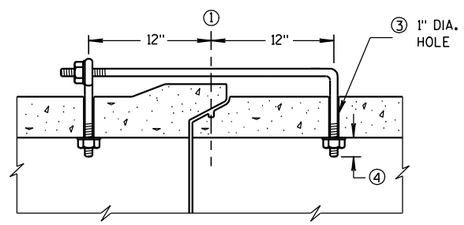
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

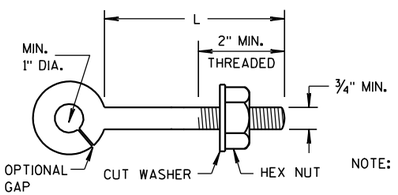


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

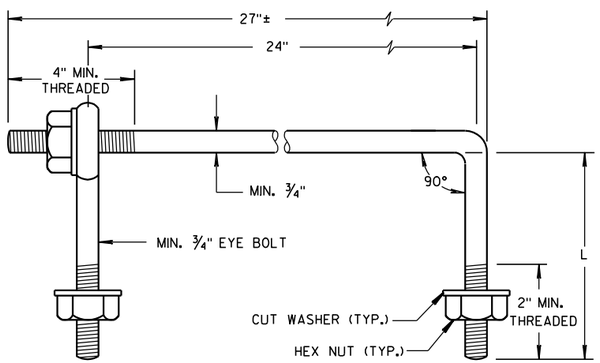
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

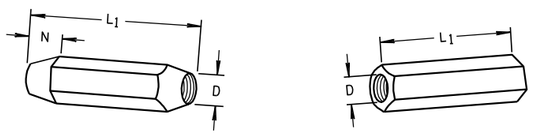
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

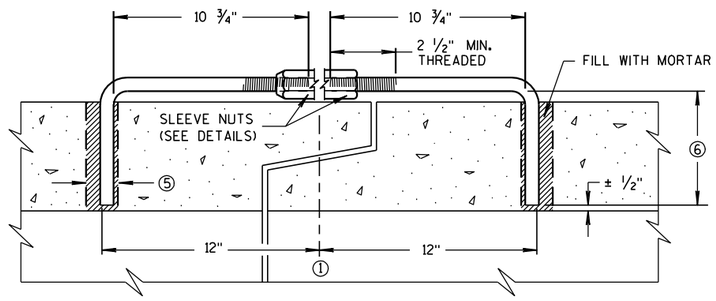
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

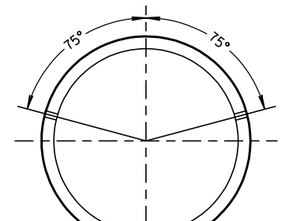
SLEEVE NUTS



LONGITUDINAL SECTION

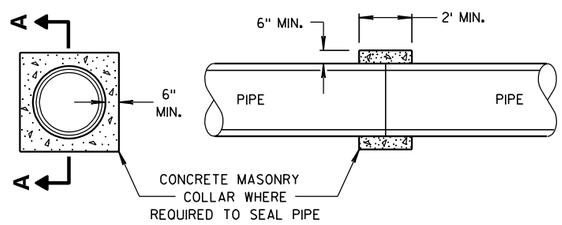
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

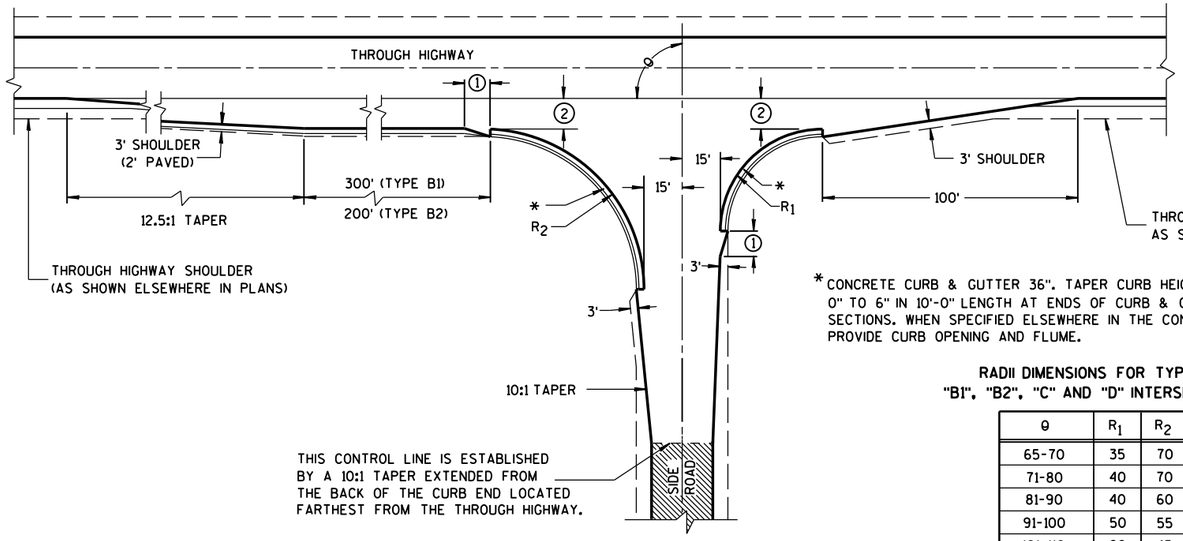
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

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S.D.D. 8 F 4-7

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S.D.D. 8 F 4-7

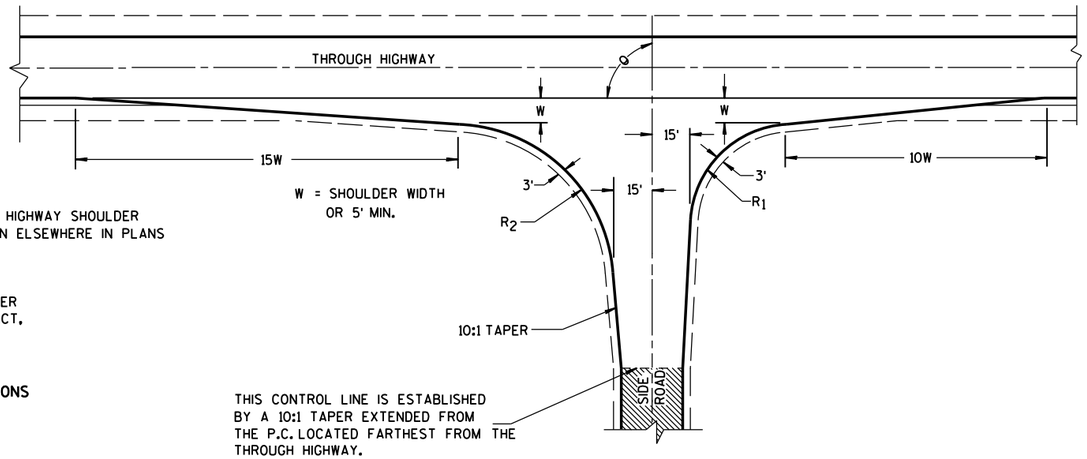


TYPE "B1" AND "B2"

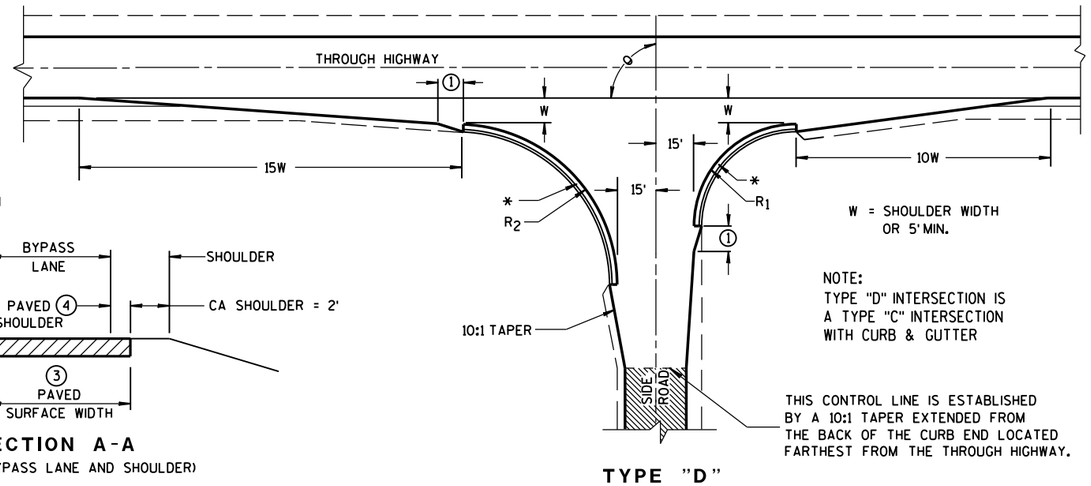
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

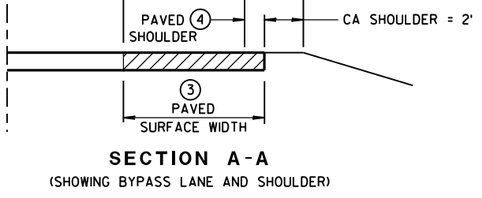
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

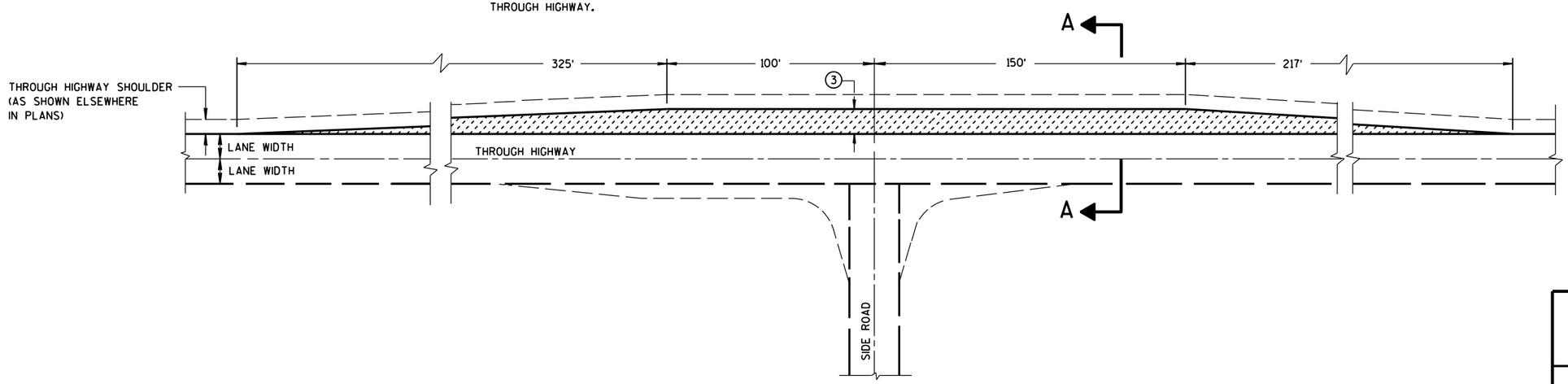
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



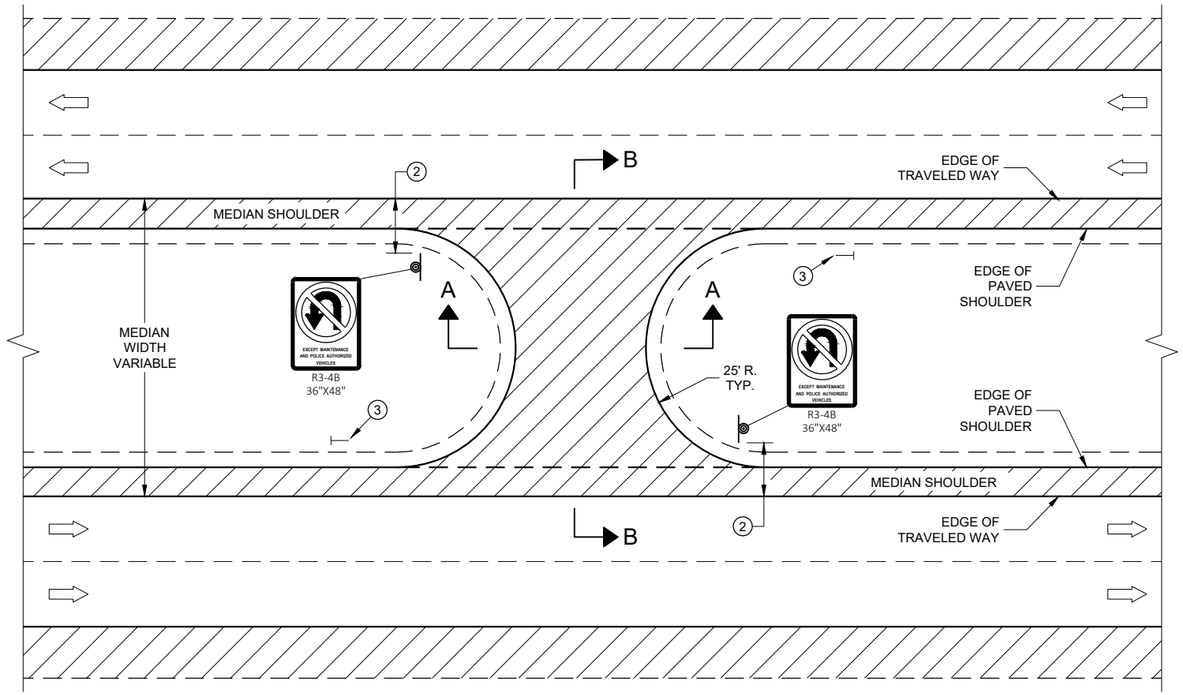
TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

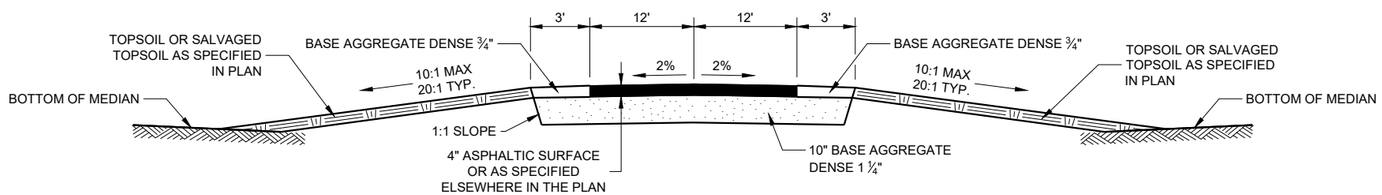
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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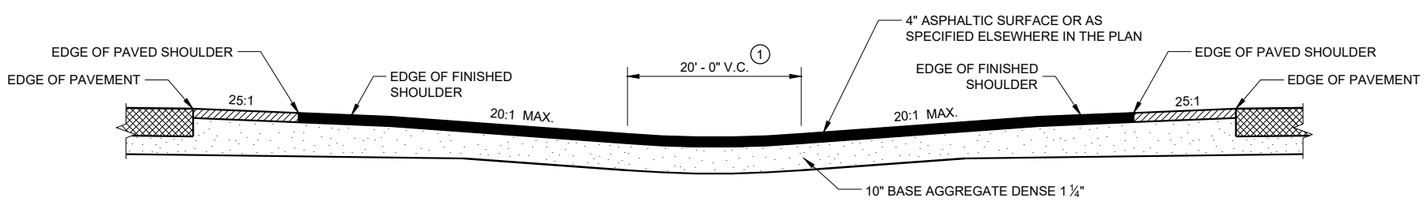
S.D.D. 9 A 1-13a



PLAN VIEW



SECTION A-A



SECTION B-B

GENERAL NOTES

1. ADJUST VERTICAL CURVE LOCATION LATERALLY TO MAINTAIN 20:1 MAX.
2. SIGNING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.
3. INSTALL DELINEATOR. SEE STANDARD DETAIL DRAWING 15A4.

LEGEND

- SIGN ON PERMANENT SUPPORT
- DELINEATOR
- DIRECTION OF TRAFFIC

MAINTENANCE CROSSOVER FOR FREEWAYS

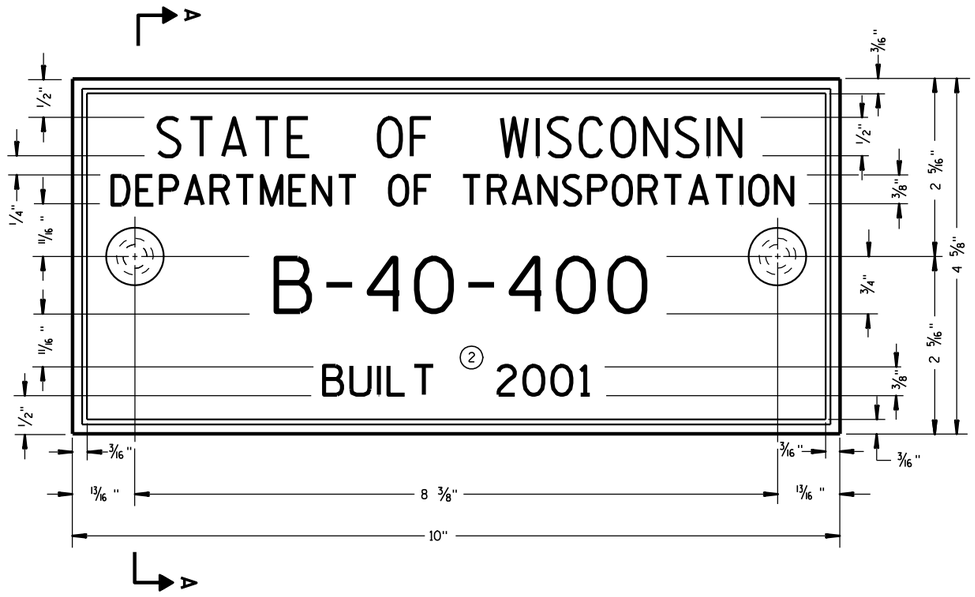
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

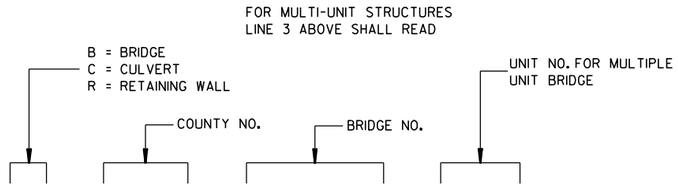
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SDD 11A01 - 06



TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

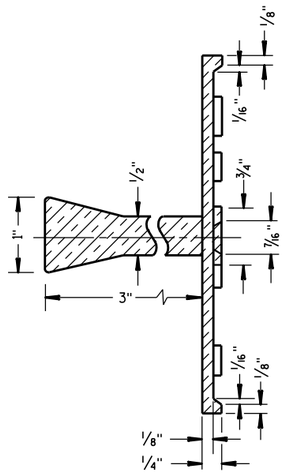
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

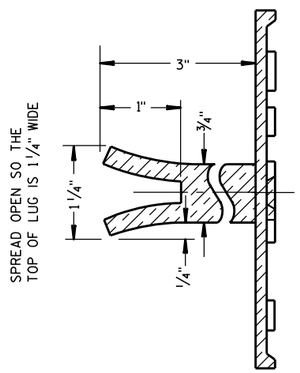
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

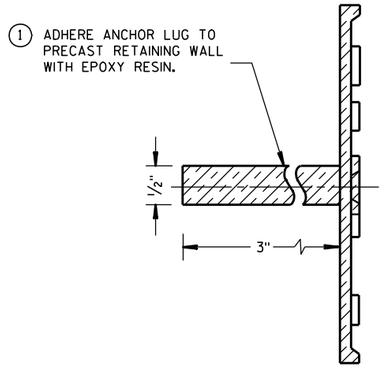
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

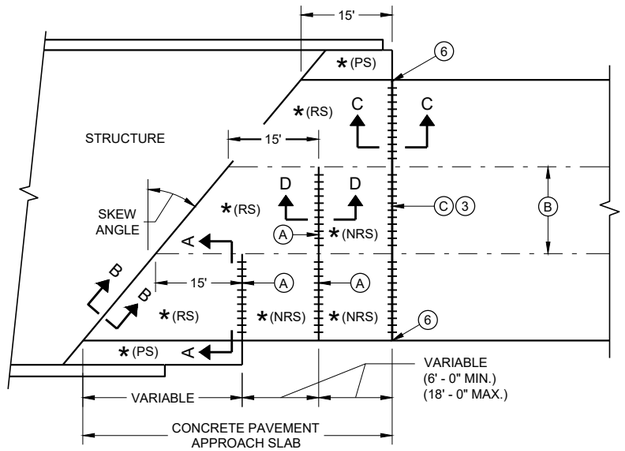
APPROVED

3/26/10 DATE — /S/ Scot Beck -- CHIEF STRUCTURAL DEVELOP ENGINEER

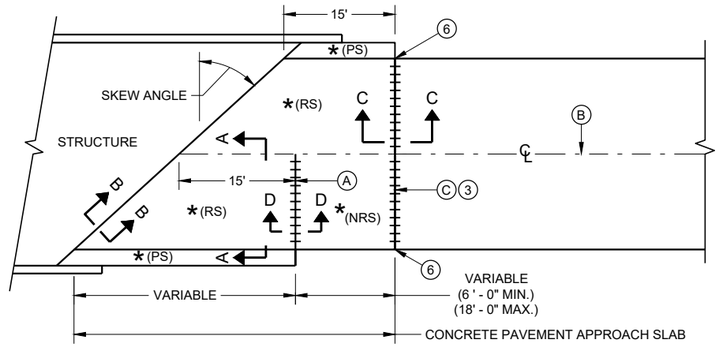
FHWA

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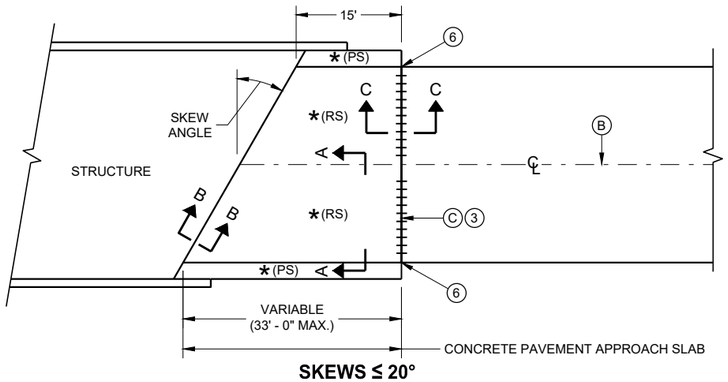
S.D.D. 12 A 3-10



SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)



SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')



SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

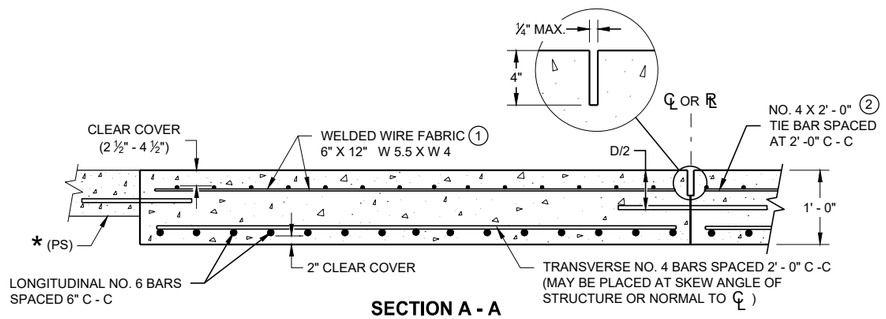
APPROACH SLAB AND ADJACENT PAVEMENT

* (RS) = REINFORCED CONCRETE SLAB

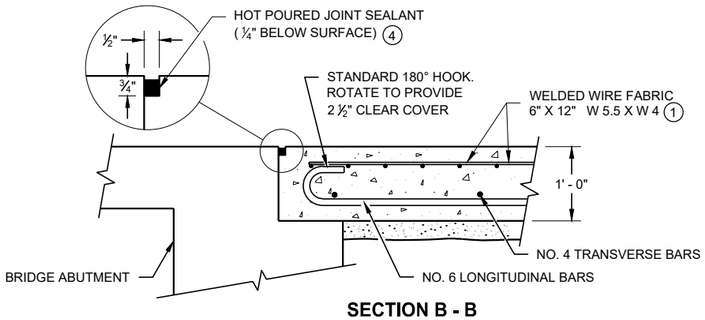
* (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB

* (NRS) - NON - REINFORCED CONCRETE SLAB

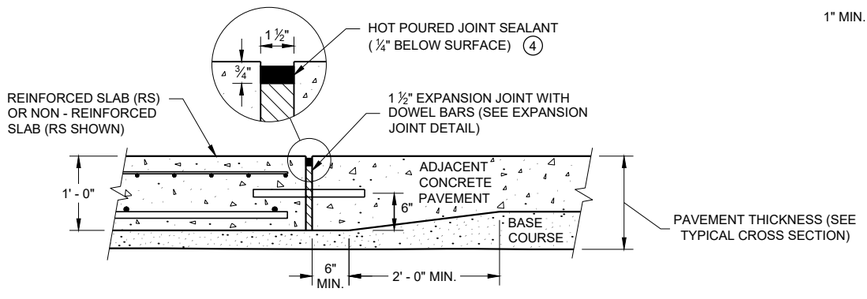
*** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



SECTION A - A
REINFORCEMENT POSITIONING DETAIL



SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

(1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0 " C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

(2) THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

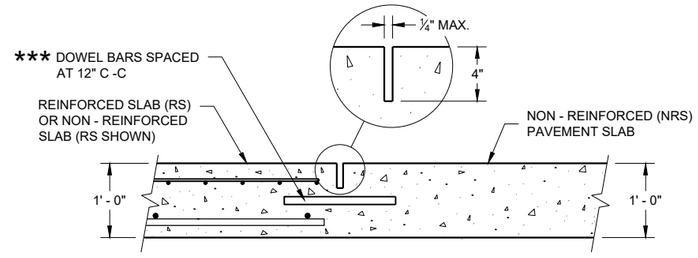
(5) PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.

(6) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

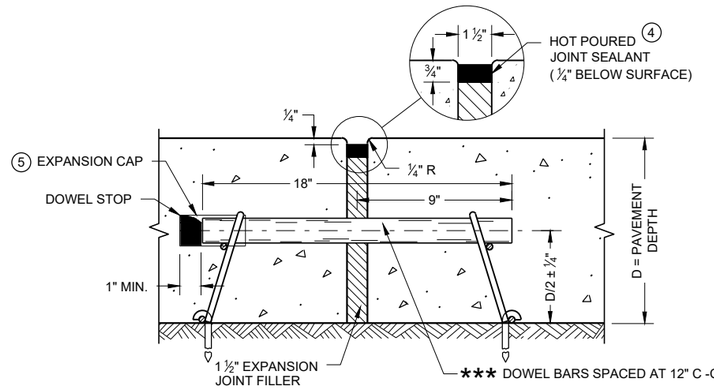
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℞.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞ .



SECTION D - D
CONTRACTION JOINT



EXPANSION JOINT DETAIL

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

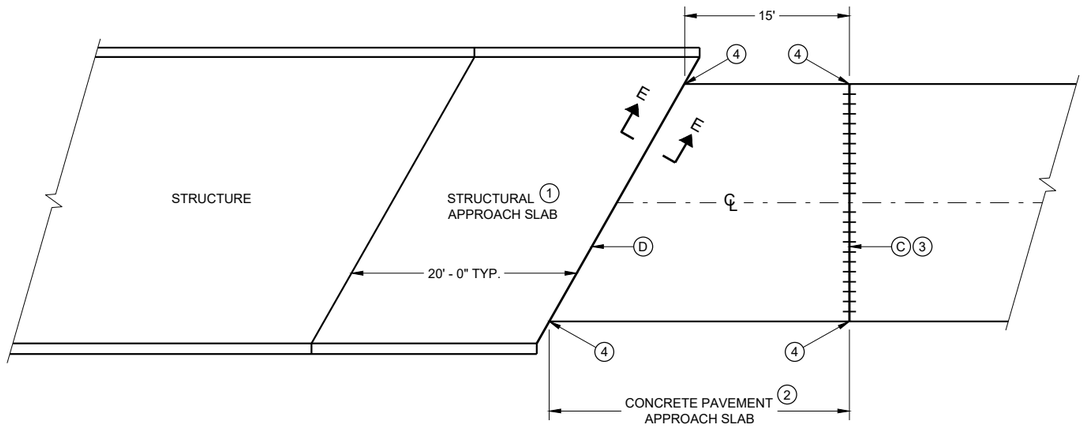
APPROVED
November 2018
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPERVIS

FHWA

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SDD 13B02 - 09a



BRIDGE APPROACHES

GENERAL NOTES

ALL PROJECTS THAT INVOLVE A STRUCTURAL APPROACH SLAB WILL ALSO HAVE A CONCRETE PAVEMENT APPROACH SLAB.

(1) SEE BRIDGE PLAN.

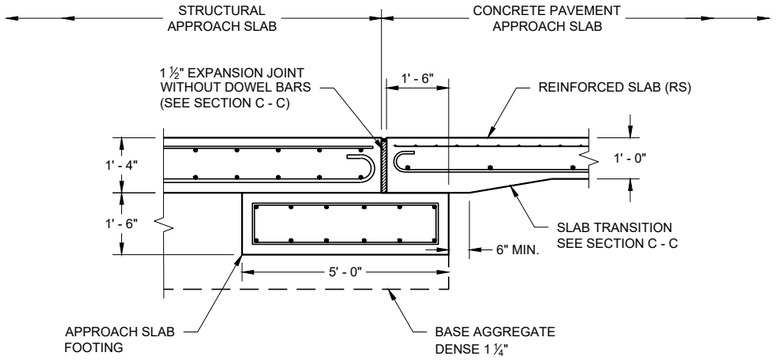
(2) CONFORM TO SDD 13B02 SHEET A FOR CONCRETE PAVEMENT APPROACH SLAB DETAILS

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞.

(D) 1 ½" EXPANSION JOINT (NO DOWELS)



SECTION E - E
FOOTING DETAIL
STRUCTURAL APPROACH SLAB TO CONCRETE BRIDGE APPROACH

STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB

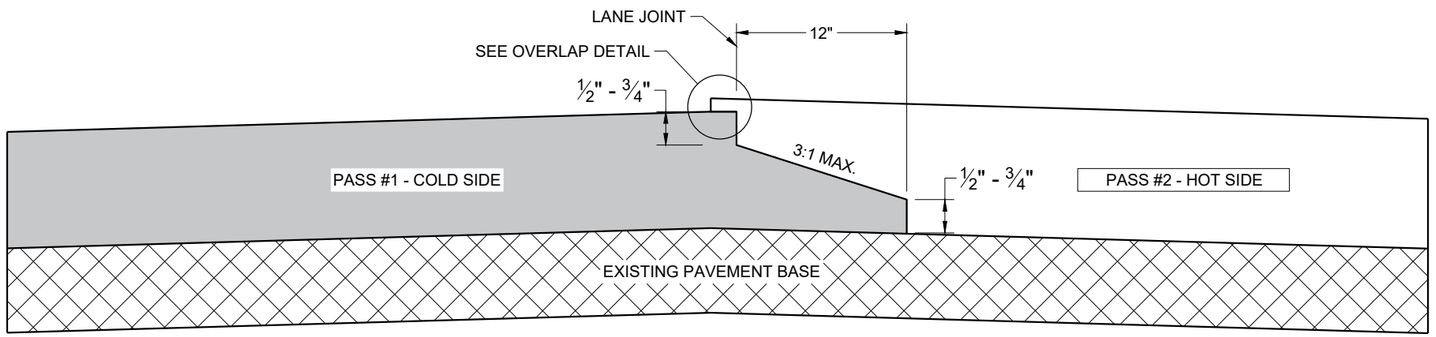
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

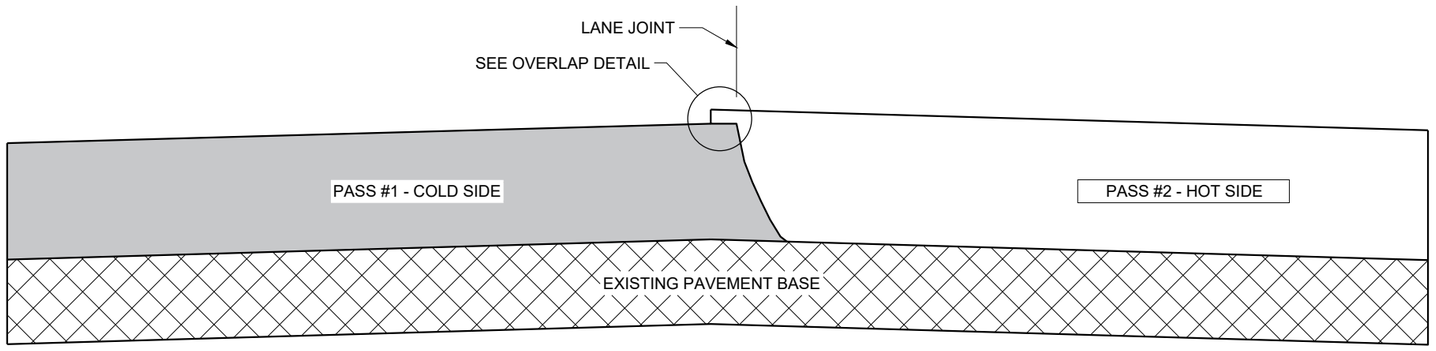
FHWA

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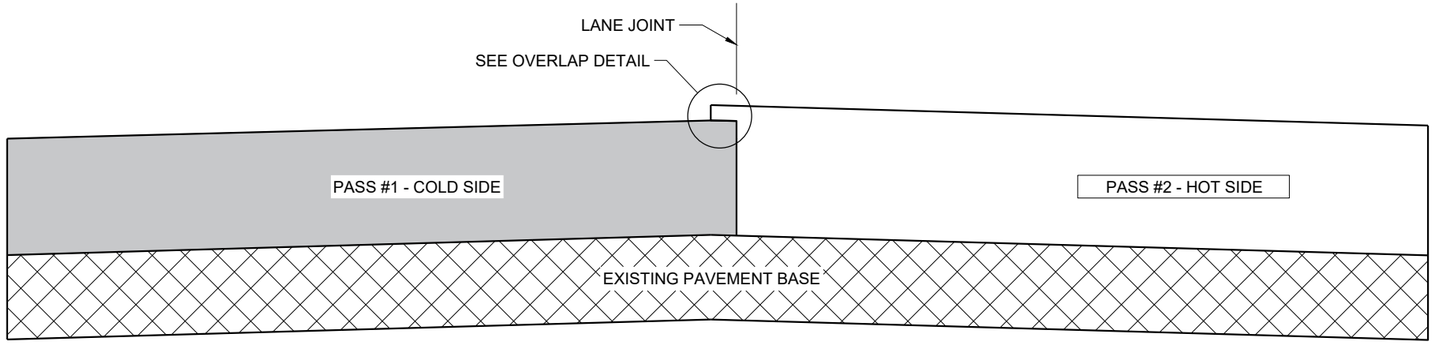
SDD 13B02 - 09b



TYPICAL PAVEMENT CROSS SECTION
OF NOTCHED WEDGE LONGITUDINAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL LONGITUDINAL JOINT



TYPICAL PAVEMENT CROSS SECTION
OF MILLED LONGITUDINAL JOINT

GENERAL NOTES

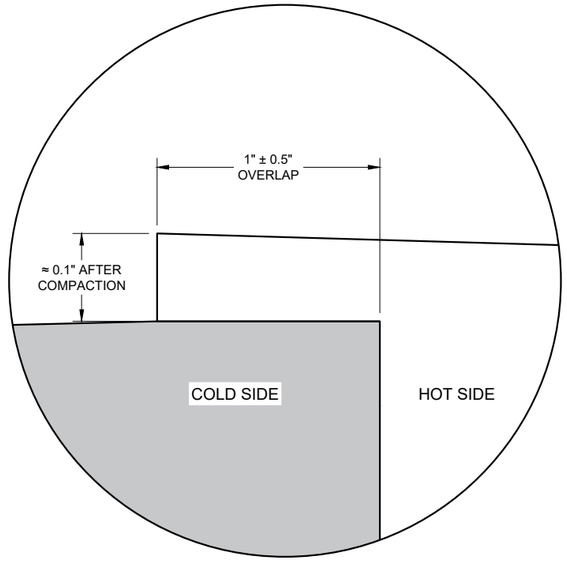
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION.

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 02

SDD 13C19 - 02

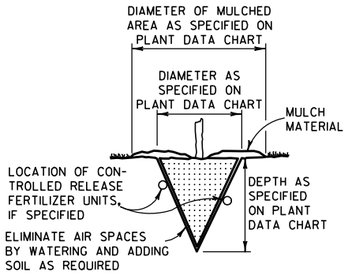
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

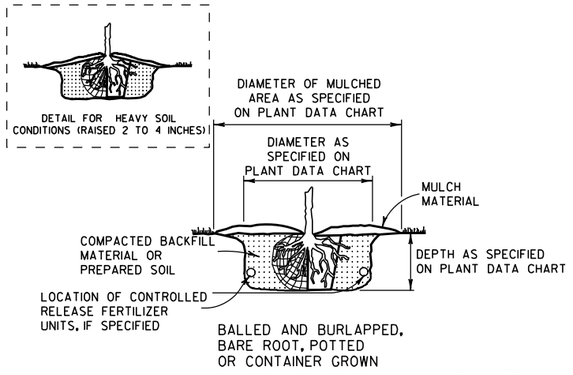
APPROVED
February 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

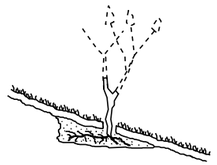
FHWA



MACHINE MOVED

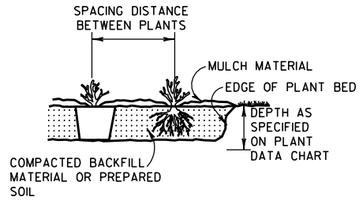


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



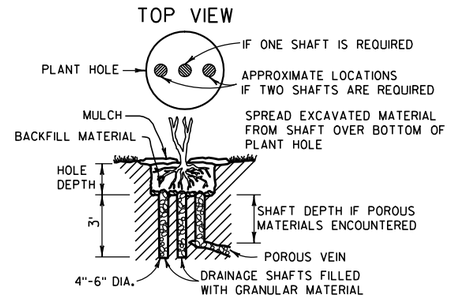
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING



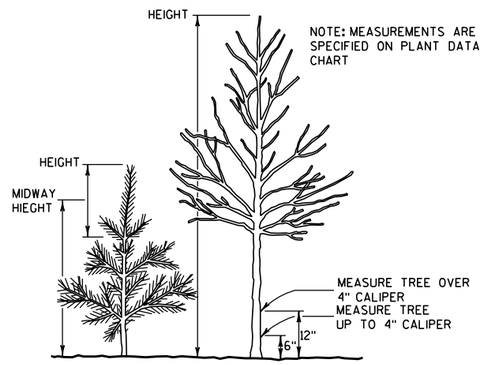
PREPARED BED (BARE ROOT AND POTTED)

PLANTING

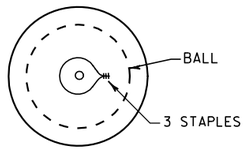


NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

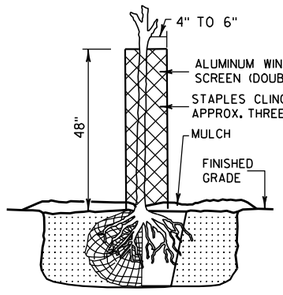
DRAINING



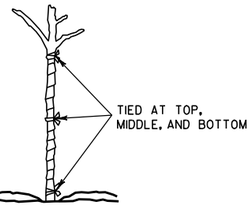
MEASURING



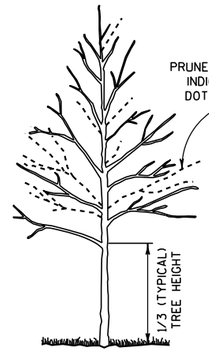
TOP VIEW



RODENT PROTECTION



WRAPPING



TALL DECIDUOUS TREES (ASH, MAPLE, LINDEN, OAK)

SINGLE STEMMED LOW DECIDUOUS TREES (CRABS AND OTHER SINGLE STEM TYPE)

MULTI-STEMMED LOW DECIDUOUS TREES OR LARGE SHRUBS (HAWTHORN, SERVICEBERRY)

NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES

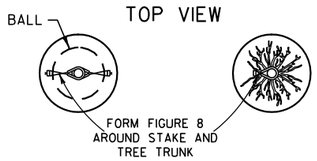


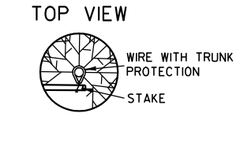
SHRUBS (GRAY DOGWOOD ARROWWOOD VIBURNUM)

SUMAC

TREE TYPE EVERGREENS (PINE, SPRUCE, FIR) EVERGREENS USUALLY ARE NOT PRUNED

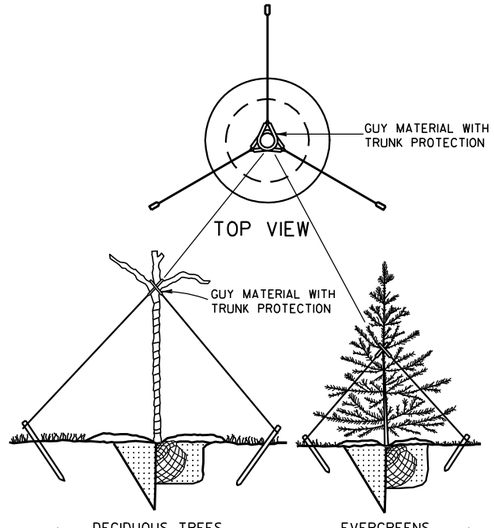
PRUNING



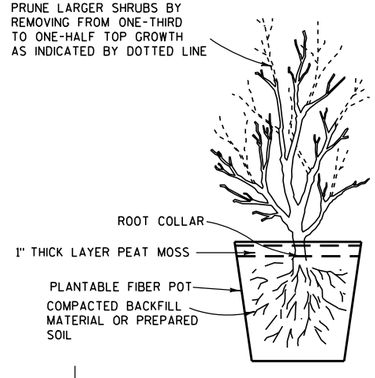


NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING



GUYING



POTTING

NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

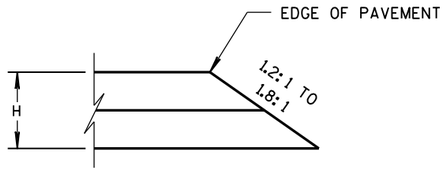
TREE PLANTING DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/11/94
DATE
/S/ Rory L. Rhinesmith
CHIEF METHODS DEVELOPMENT ENGINEER
FHWA

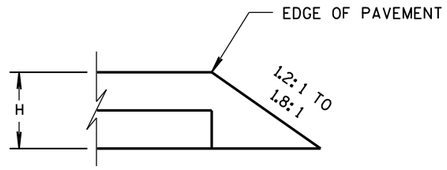
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S.D.D. 14 A 2-1



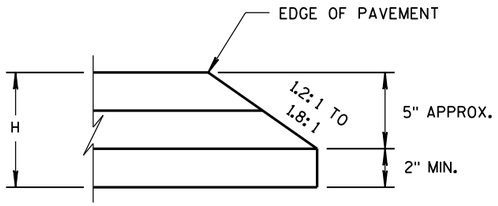
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



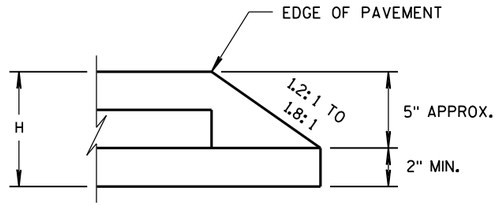
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

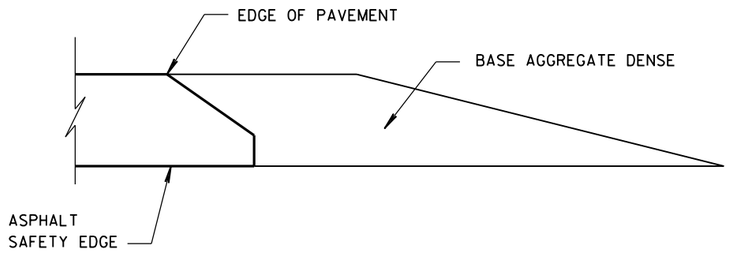
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

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S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

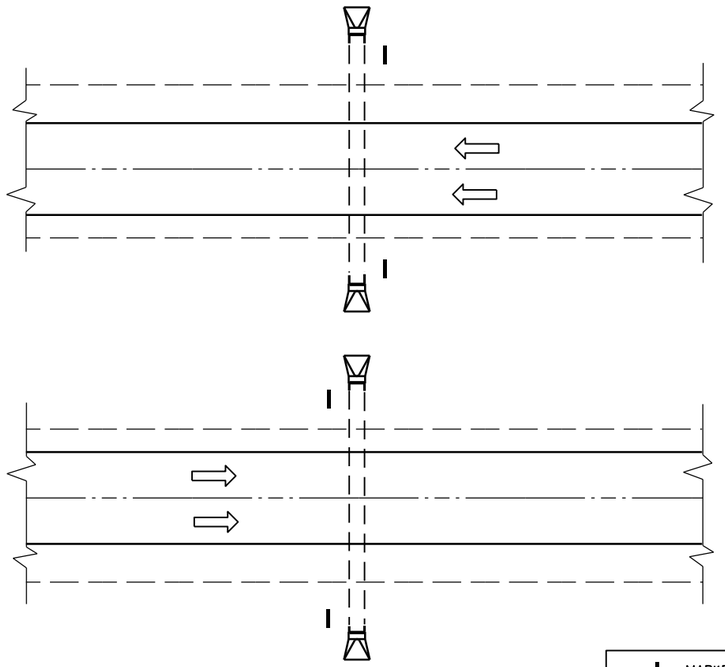
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012
DATE

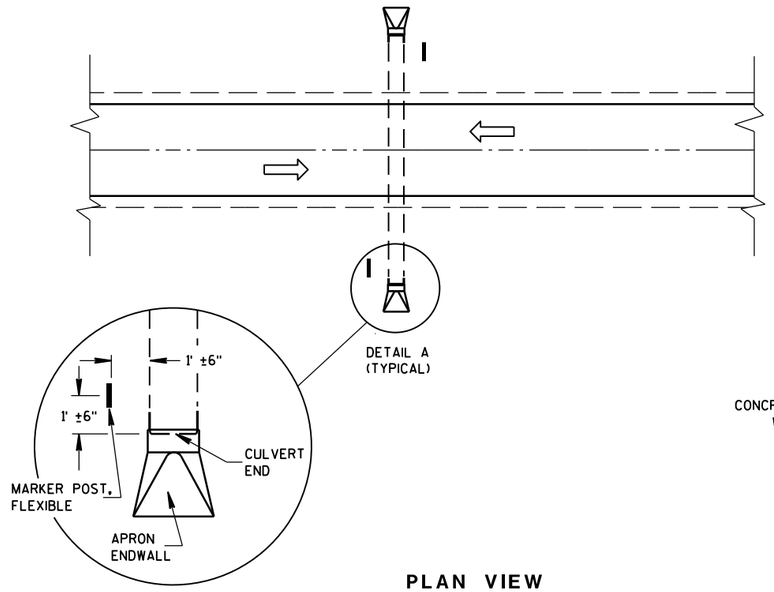
/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

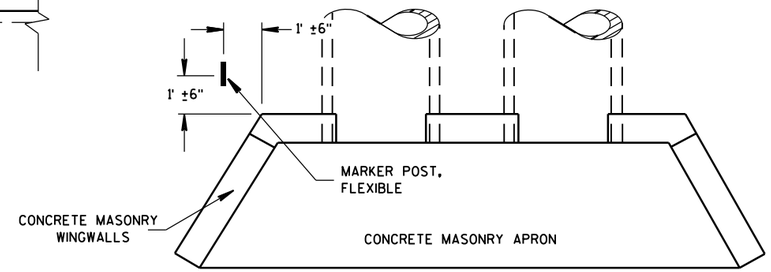
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

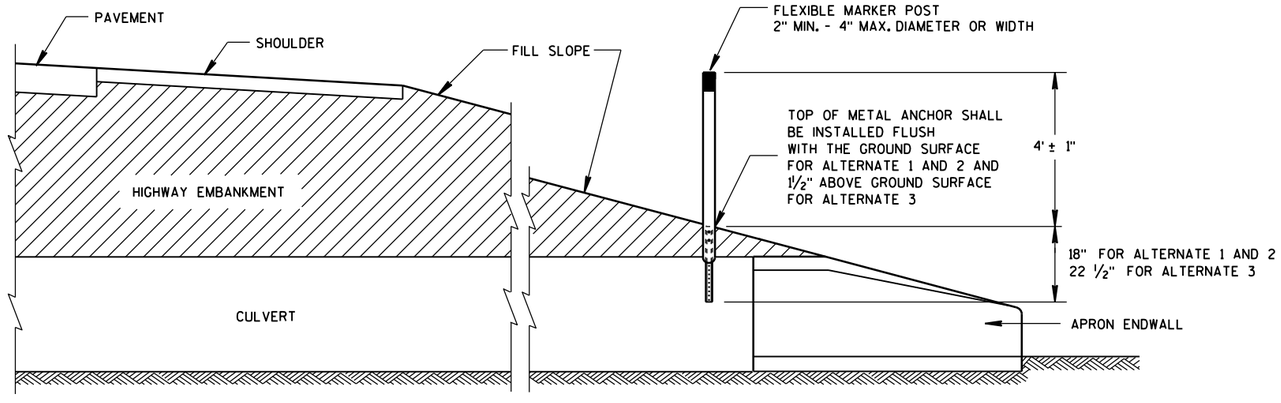
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

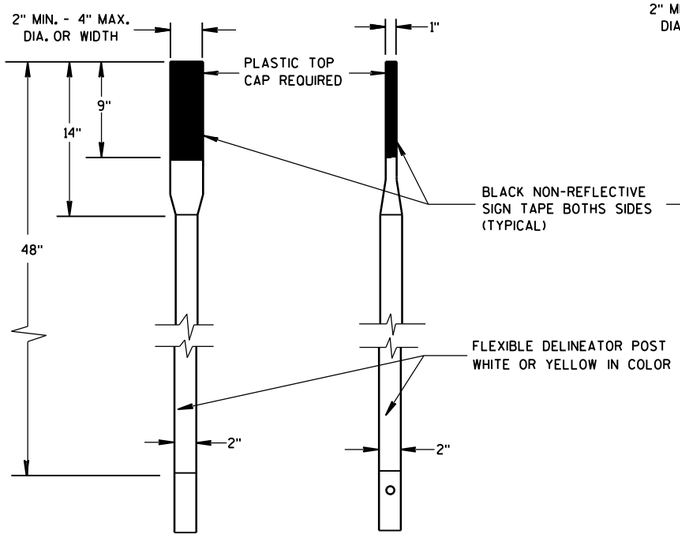
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

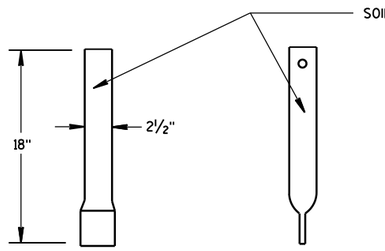
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S.D.D. 15 A 3-2a

6

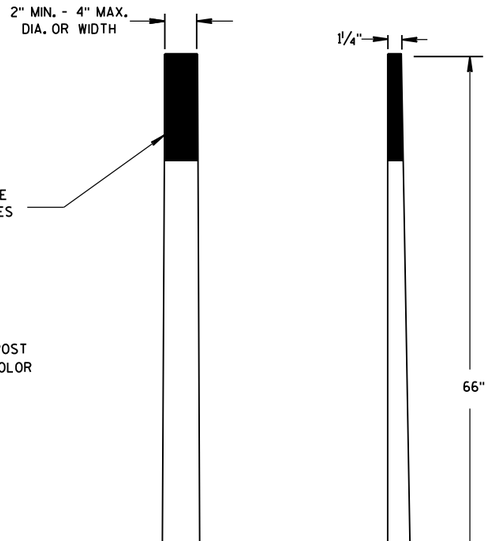
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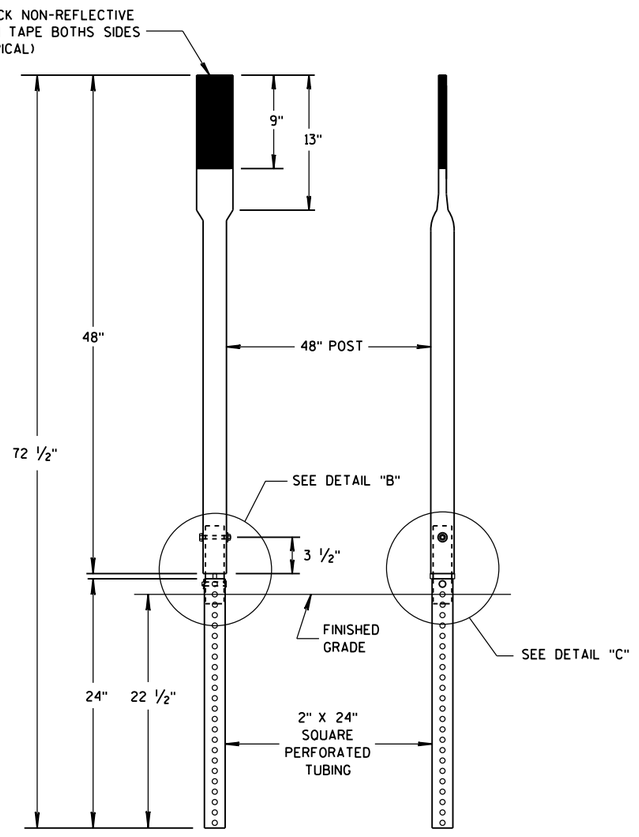
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

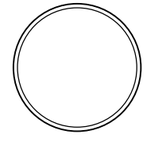
ALTERNATE 2



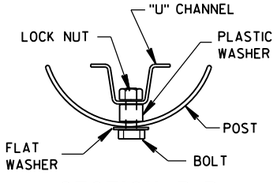
FRONT VIEW SIDE VIEW

ALTERNATE 3

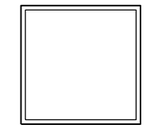
FLEXIBLE MARKER POSTS



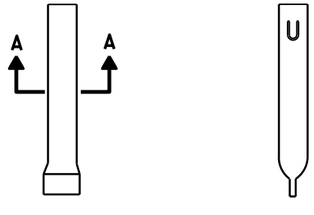
SECTION A-A



SECTION B-B

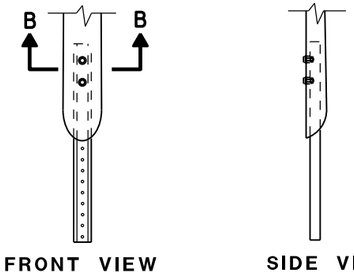


SECTION C-C



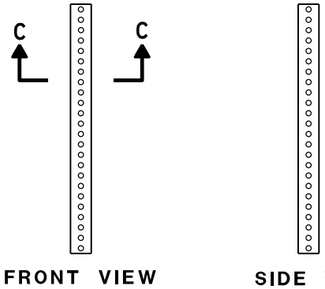
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

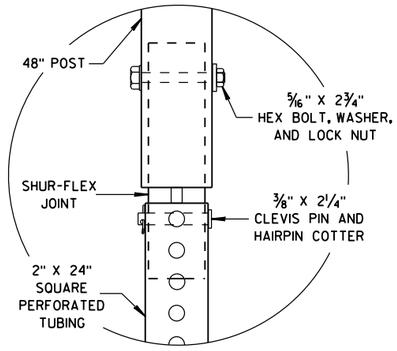
ALTERNATE 2



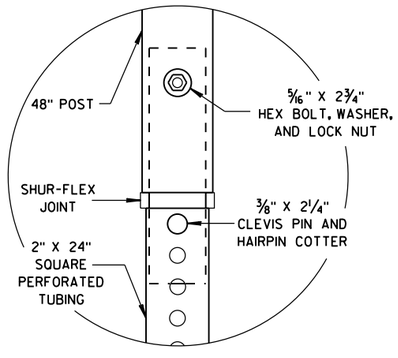
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

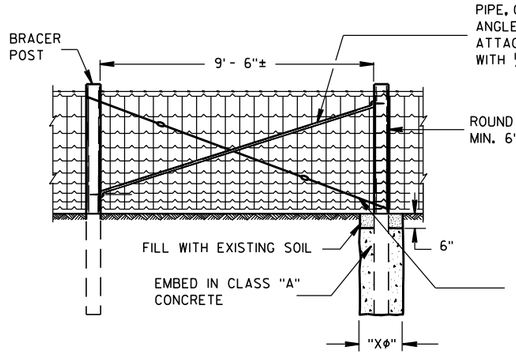
S.D.D. 15 A 3-2b

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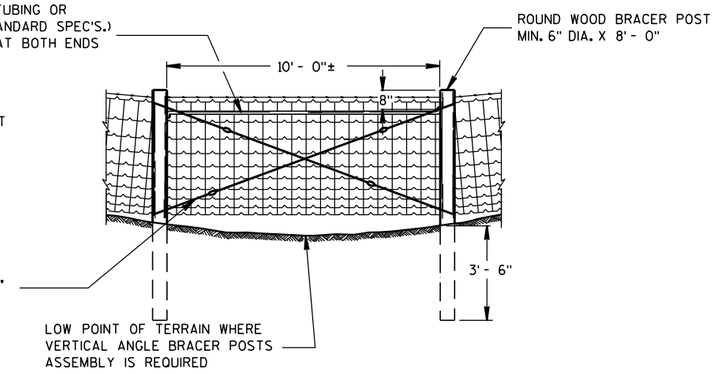
S.D.D. 15 A 3-2b

NOTE: PULL OR STRETCHER POST ASSEMBLIES SHALL BE PLACED MIDWAY BETWEEN END POSTS AND CORNER POSTS WHERE A RUN OF FENCE EXCEEDS 660' BUT IS LESS THAN 1,320'. FOR RUNS OF FENCE IN EXCESS OF 1,320' MAXIMUM SPACING OF PULL OR STRETCHER POST ASSEMBLIES SHALL BE 660'± C-C.

ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



PULL OR STRETCHER POSTS ASSEMBLY



VERTICAL ANGLE BRACER POSTS ASSEMBLY

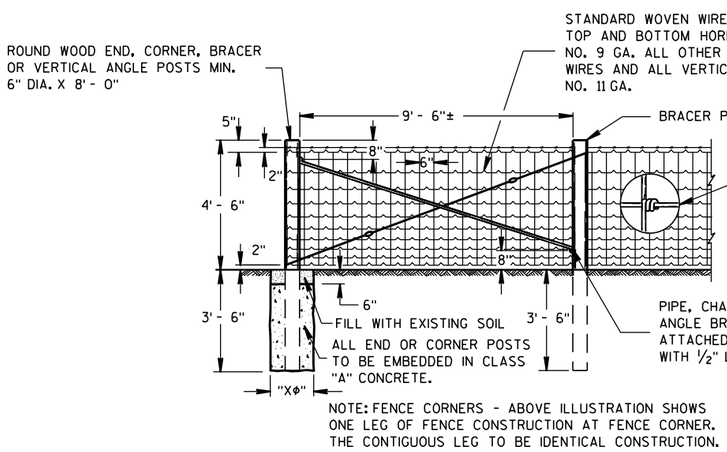
GENERAL NOTES

"XΦ" = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VERTICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

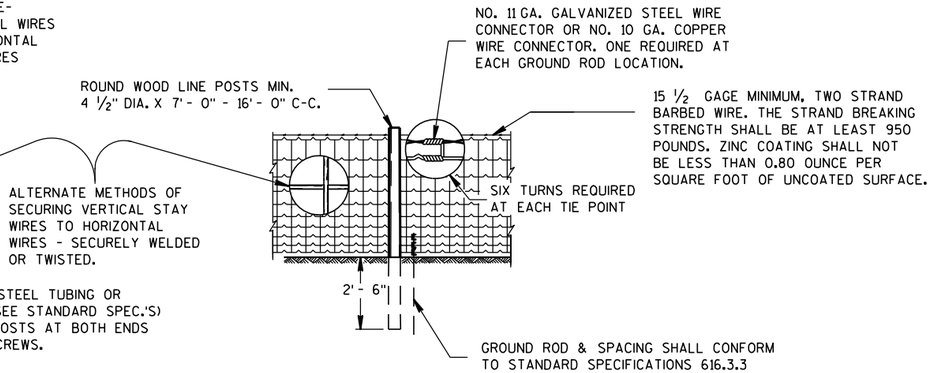
DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.



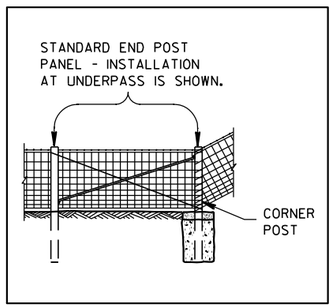
NOTE: FENCE CORNERS - ABOVE ILLUSTRATION SHOWS ONE LEG OF FENCE CONSTRUCTION AT FENCE CORNER. THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.

END OR CORNER POSTS ASSEMBLY

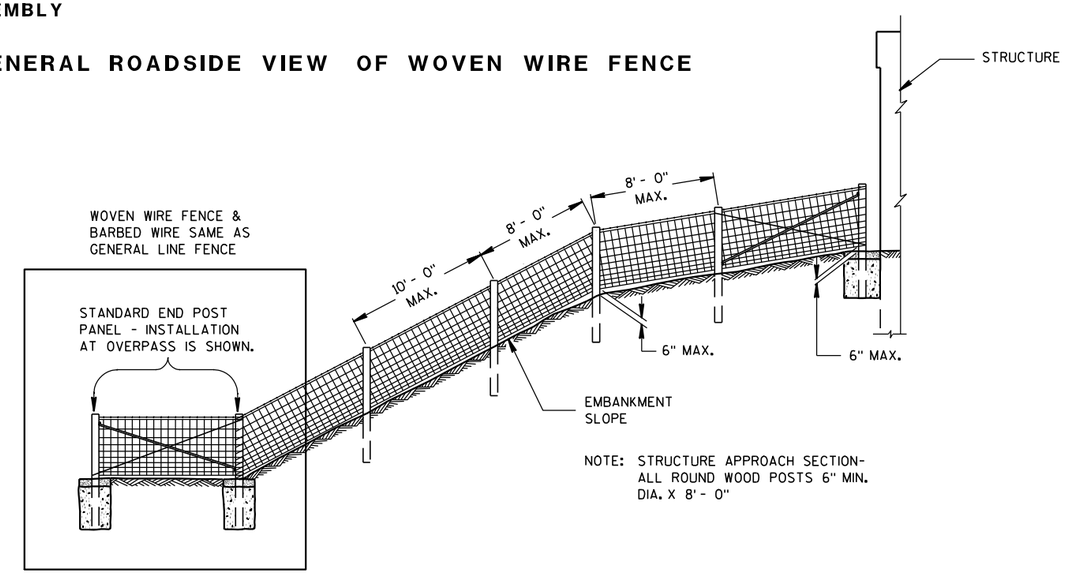


LINE FENCE CONSTRUCTION

GENERAL ROADSIDE VIEW OF WOVEN WIRE FENCE



ALTERNATE FENCE DESIGN AT STRUCTURE



FENCE DESIGN AT STRUCTURE APPROACH

FENCE WOVEN WIRE

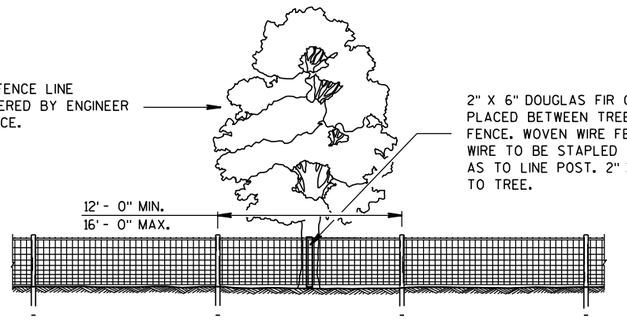
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

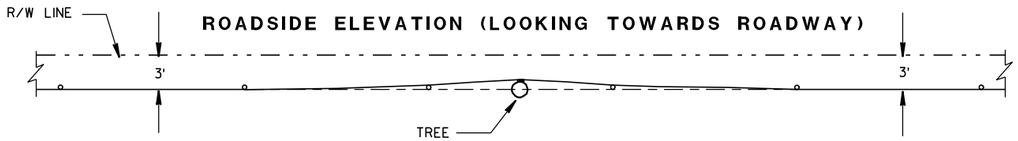
S.D.D. 15 B 1-8a
S.D.D. 15 B 1-8a

NOTE: TREE IN NORMAL FENCE LINE SPECIFICALLY ORDERED BY ENGINEER TO REMAIN IN PLACE.

2" X 6" DOUGLAS FIR OR SO. YELLOW PINE PLACED BETWEEN TREE AND WOVEN WIRE FENCE. WOVEN WIRE FENCE AND BARBED WIRE TO BE STAPLED TO 2" X 6" LIKE AS TO LINE POST. 2" X 6" NOT FASTENED TO TREE.

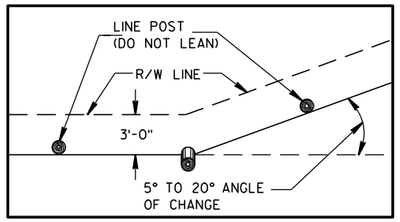


ROADSIDE ELEVATION (LOOKING TOWARDS ROADWAY)

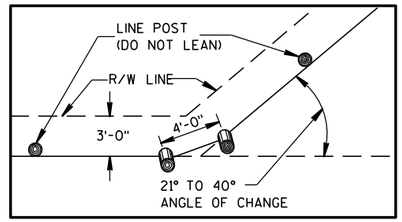


PLAN VIEW

FENCE DESIGN AT TREES REMAINING IN NORMAL FENCE LINE



PLAN VIEW
SINGLE POST CORNER

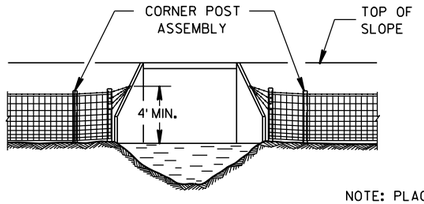


PLAN VIEW
DOUBLE POST CORNER

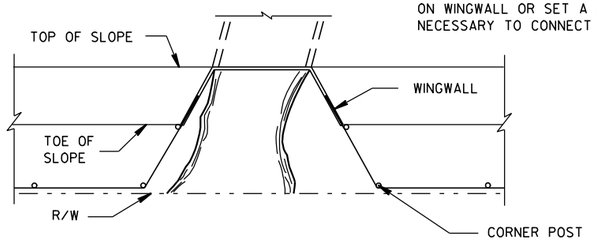
RIGHT OF WAY LINE CHANGE 40° AND LESS

NOTE: SINGLE AND DOUBLE POSTS SHALL BE A MIN. 6" DIA. X 8'-0" WITH A LEAN OF 4" TOWARD THE OUTSIDE OF THE CURVE.

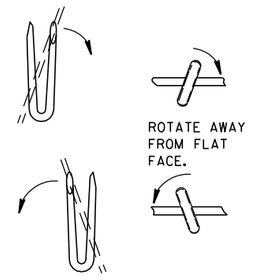
WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE, 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



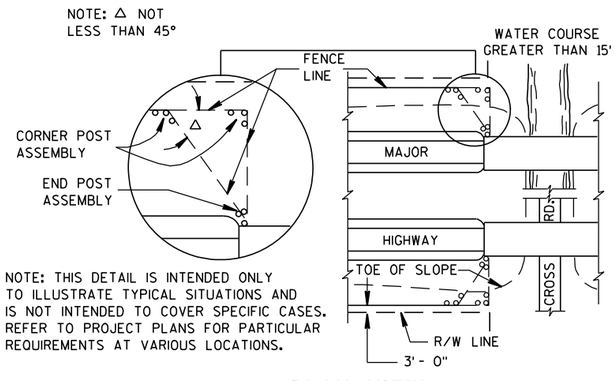
FENCE INSTALLATION TO WINGWALLS



LINE POST

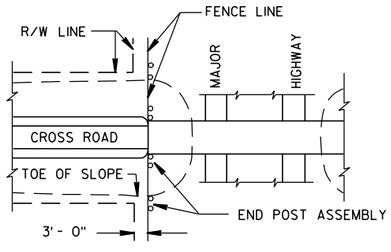
FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH

NOTE: △ NOT LESS THAN 45°



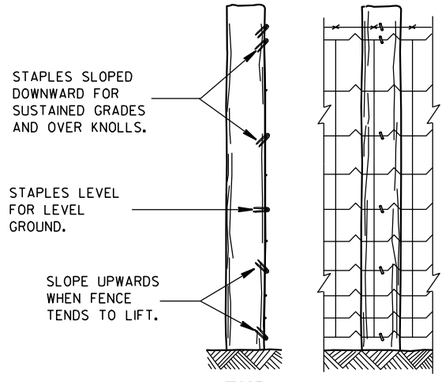
NOTE: THIS DETAIL IS INTENDED ONLY TO ILLUSTRATE TYPICAL SITUATIONS AND IS NOT INTENDED TO COVER SPECIFIC CASES. REFER TO PROJECT PLANS FOR PARTICULAR REQUIREMENTS AT VARIOUS LOCATIONS.

PLAN VIEW
MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH



PLAN VIEW
MAJOR HIGHWAY UNDERPASS

NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.



END ELEVATION

FARM SIDE ELEVATION

FENCE MOUNTING DETAIL

FENCE LOCATION AT STRUCTURES

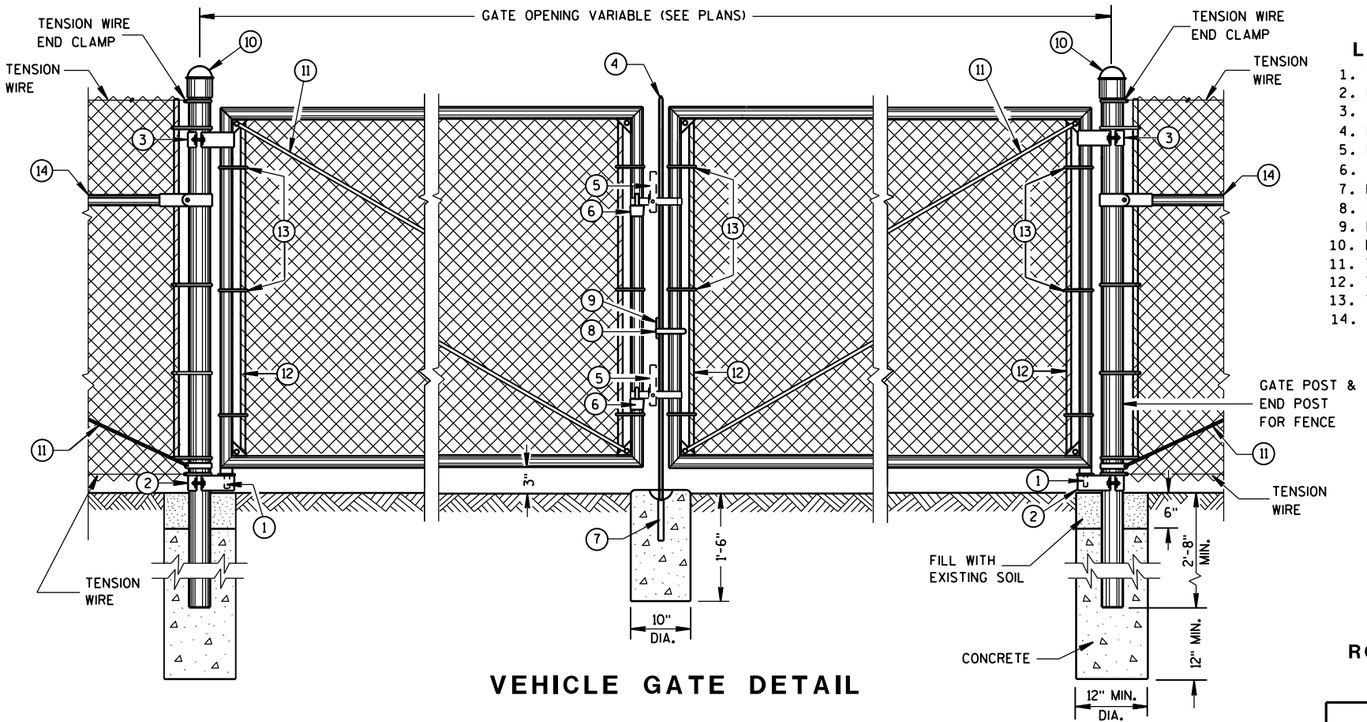
FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

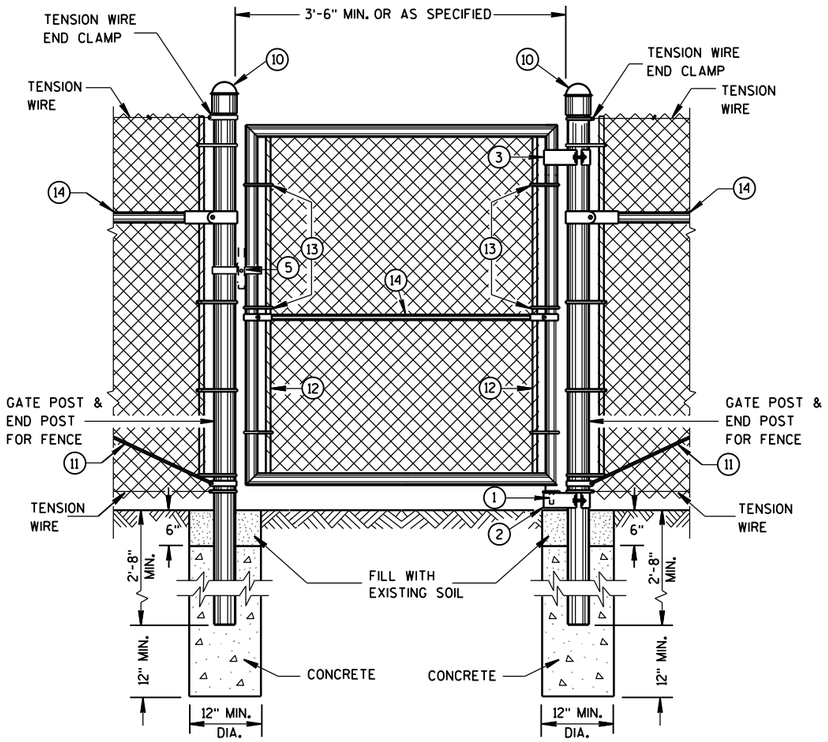
APPROVED
4/4/2008
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS [illegible] ENGINEER
FHWA

6

S.D.D. 15 B 1-8b



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

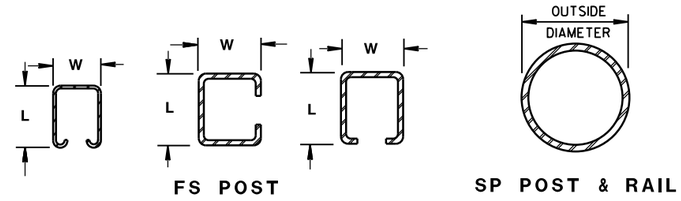
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



CROSS SECTIONS OF POSTS AND RAILS

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

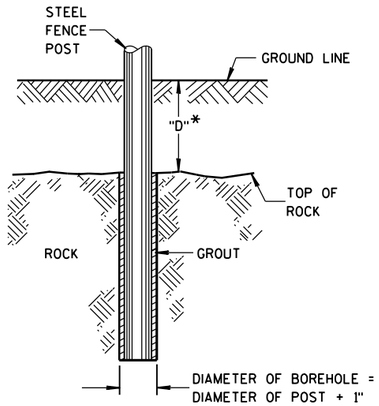
POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

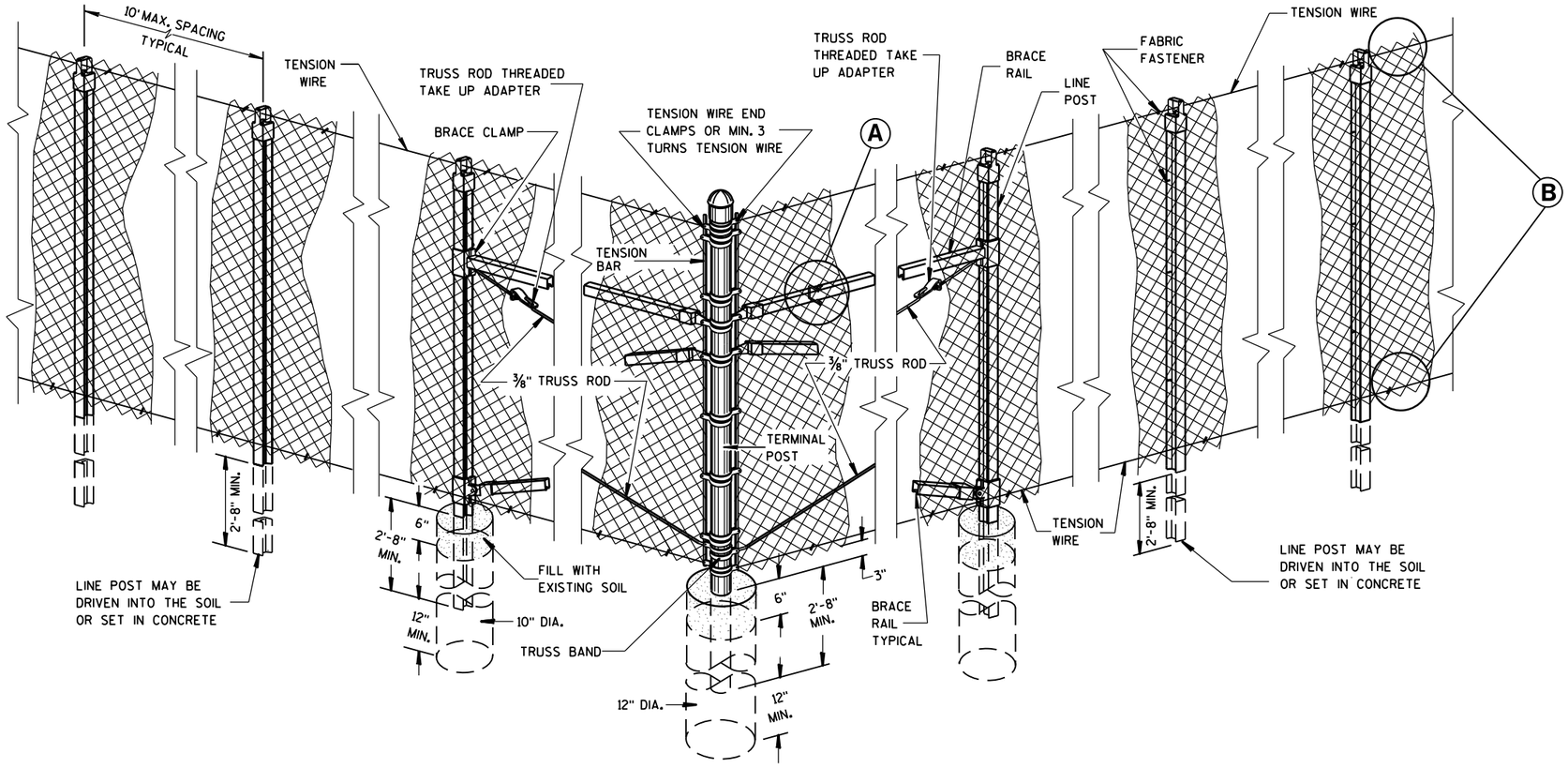
6

S.D.D. 15 B 3-15a

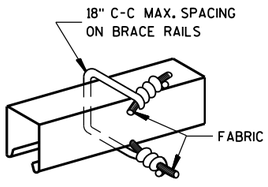


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



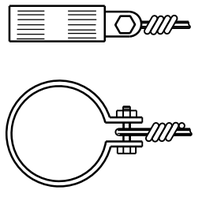
END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



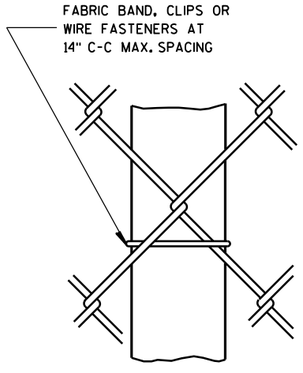
BRACE RAIL

FABRIC FASTENER

Ⓐ



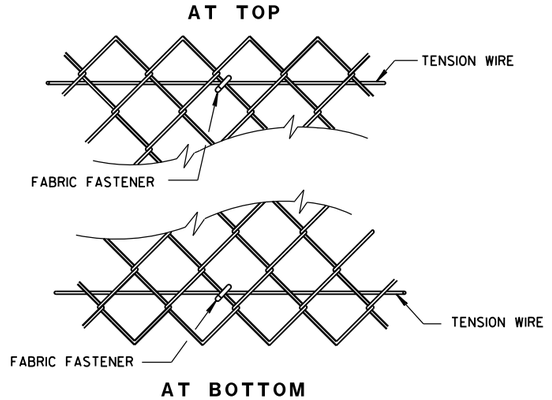
TENSION WIRE END CLAMP



LINE POST

FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

Ⓑ

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

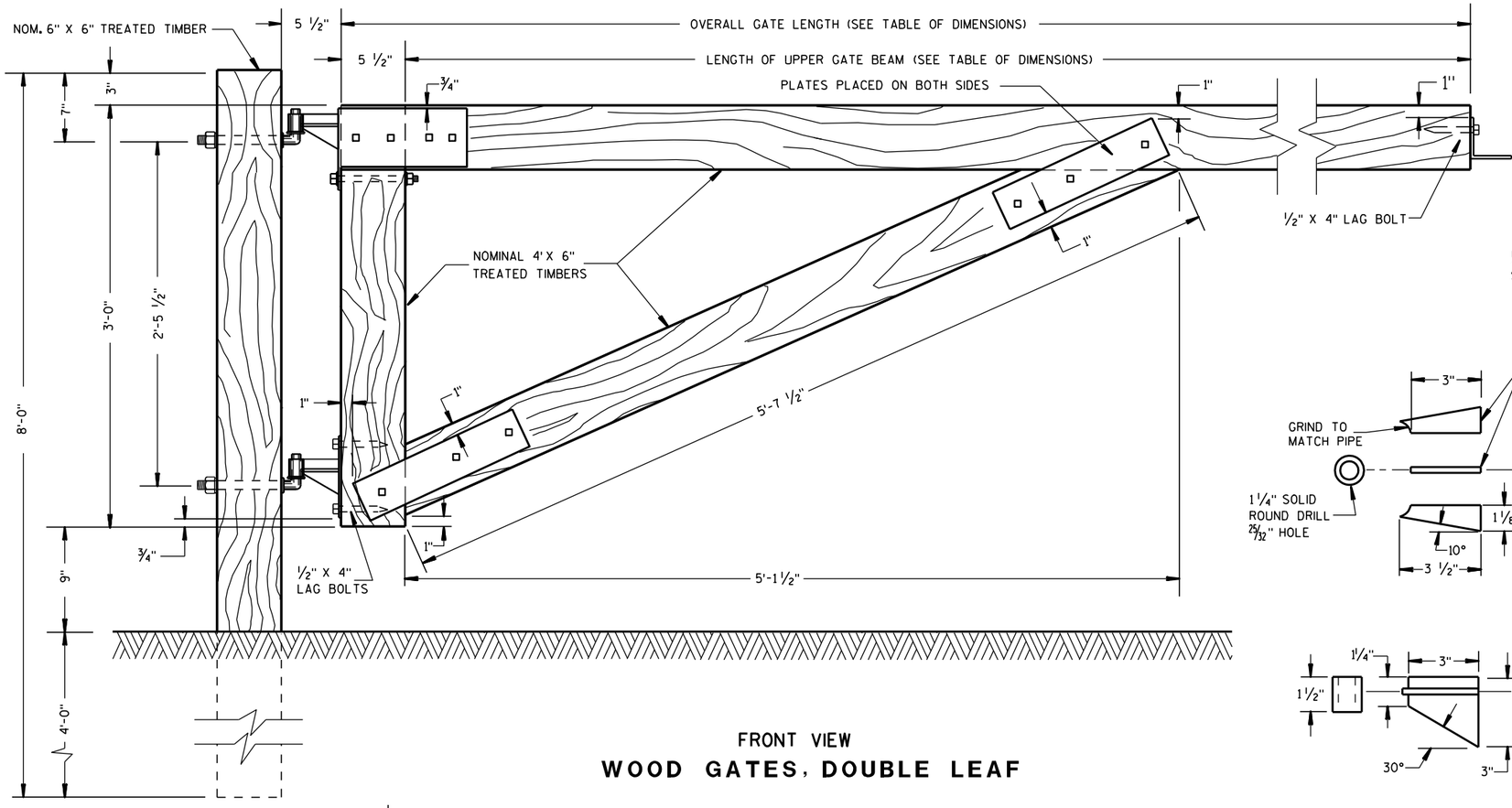
APPROVED
FEB. 2015 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 15 B 3-15b

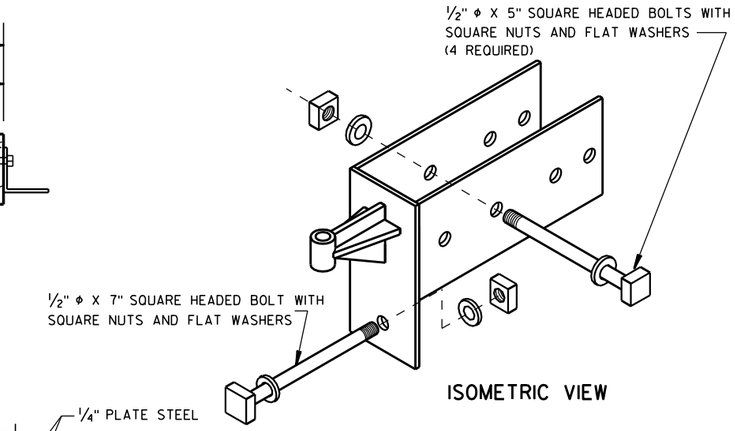
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S.D.D. 15 B 3-15b

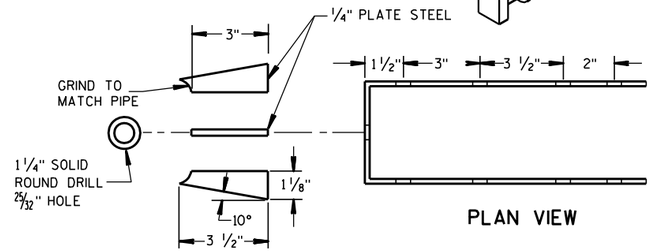


FRONT VIEW

WOOD GATES, DOUBLE LEAF

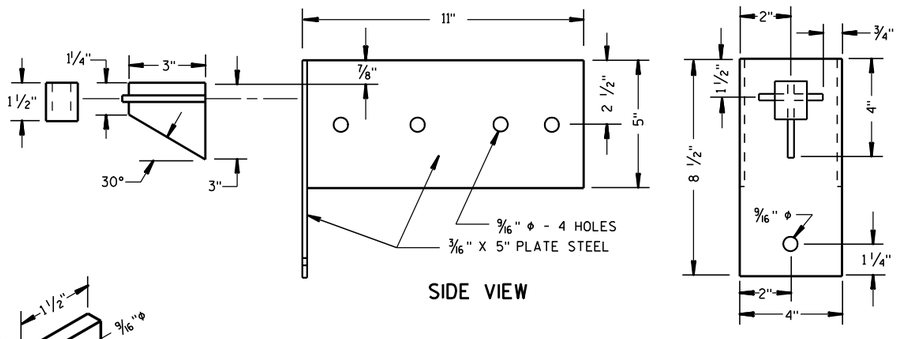


ISOMETRIC VIEW



PLAN VIEW

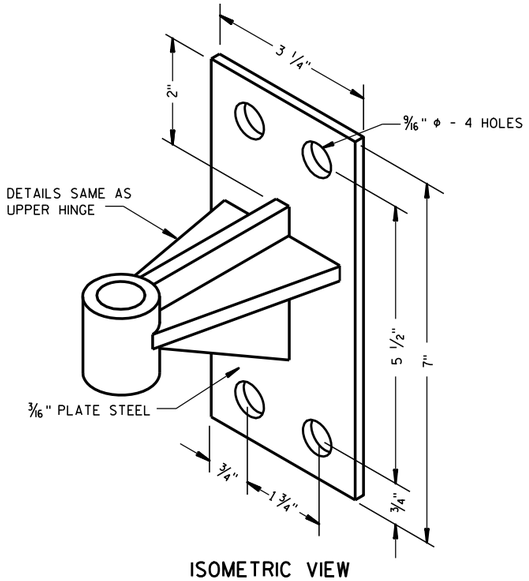
NOTE:
ALL PIECES FOR HINGE SHALL BE FABRICATED WITH A 3/16" LEG FILLET WELD.



SIDE VIEW

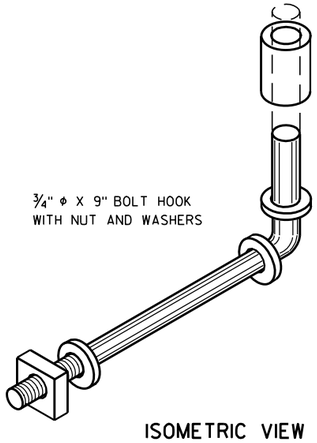
END VIEW

UPPER HINGE DETAIL ASSEMBLY



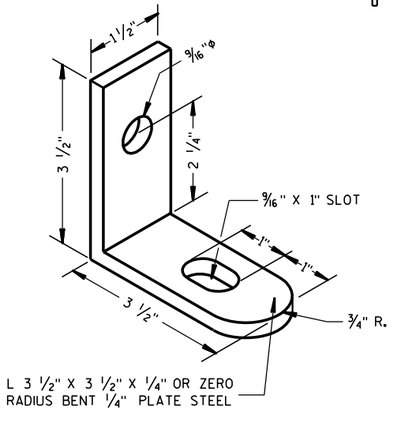
ISOMETRIC VIEW

LOWER GATE HINGE



ISOMETRIC VIEW

BOLT HOOK



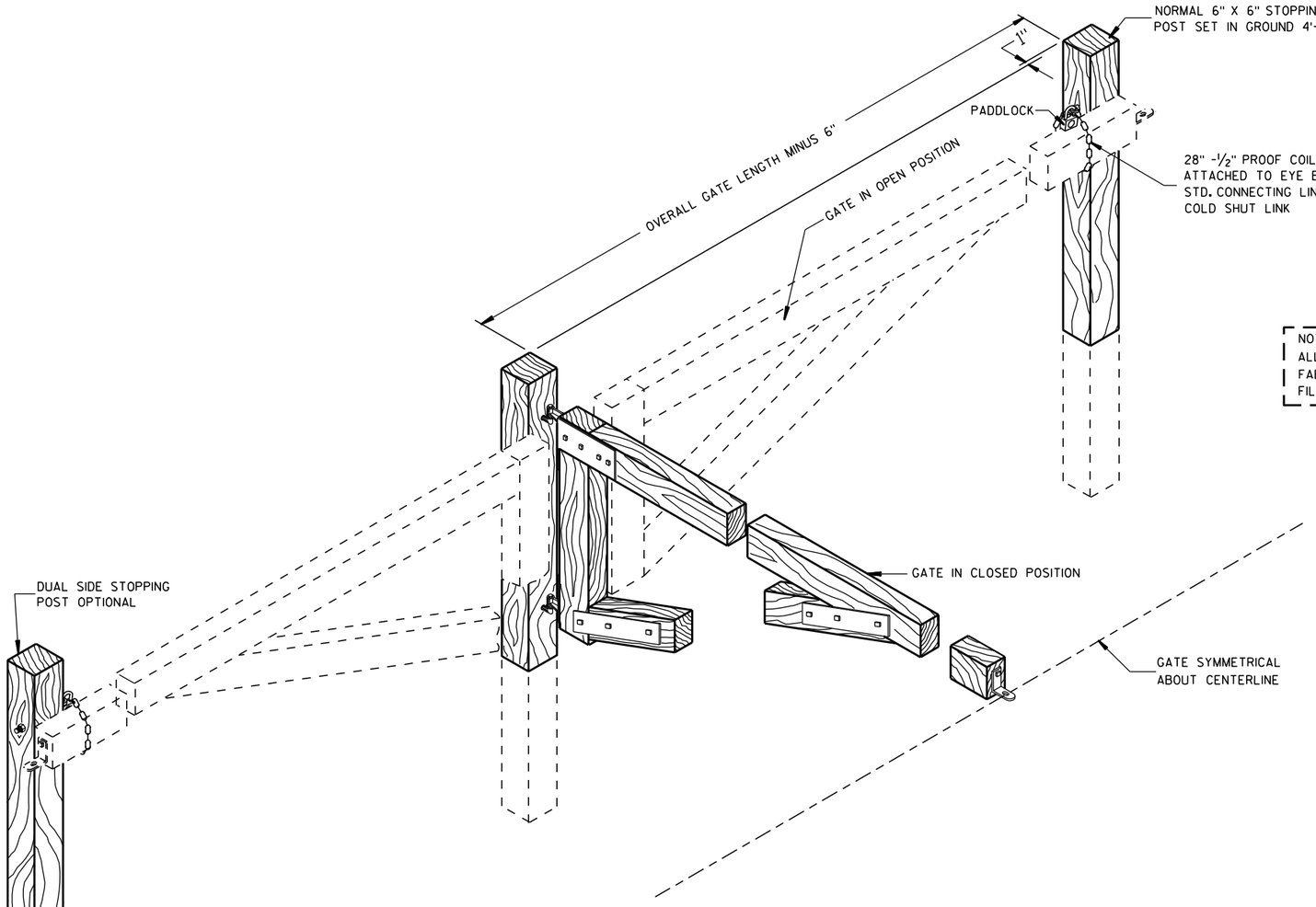
ISOMETRIC VIEW

SWING ARM LOCKING BAR

WOOD GATE, DOUBLE LEAF

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

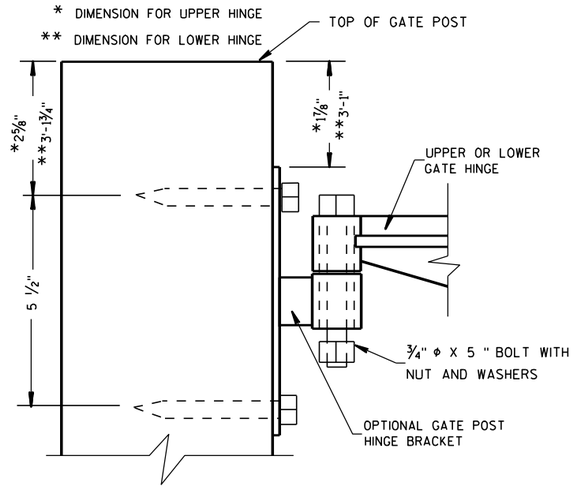
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S.D.D. 15 B 10-1a



ISOMETRIC VIEW

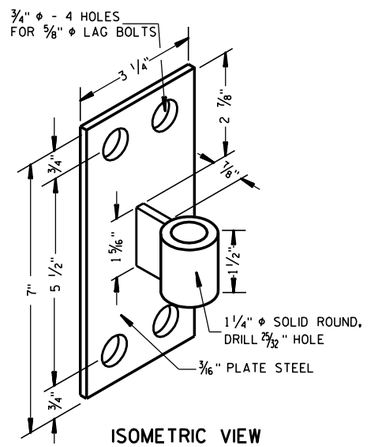
PARTIAL WOOD GATE, DOUBLE LEAF (ONE SIDE ONLY)

NOTE:
ALL PIECES FOR HINGE SHALL BE FABRICATED WITH A 3/16" LEG FILLET WELD.



SIDE VIEW

INSTALLATION FOR OPTION B GATE POST HINGE BRACKET



ISOMETRIC VIEW

OPTION B GATE POST HINGE BRACKET

NOTE: TO BE USED IN PLACE OF HOOK BOLT FOR A 16' CLEAR WIDTH OPENING ONLY (USE ON BOTH UPPER & LOWER GATE HINGE ASSEMBLY)

WOOD GATE, DOUBLE LEAF

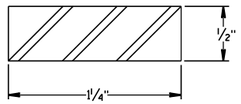
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

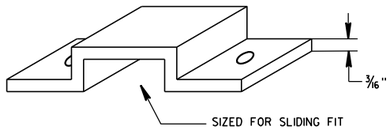
S.D.D. 15 B 10-1b

6

S.D.D. 15 B 10-1b

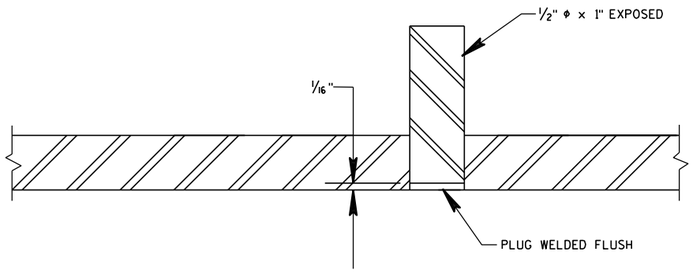


SLIDE BAR CROSS SECTION

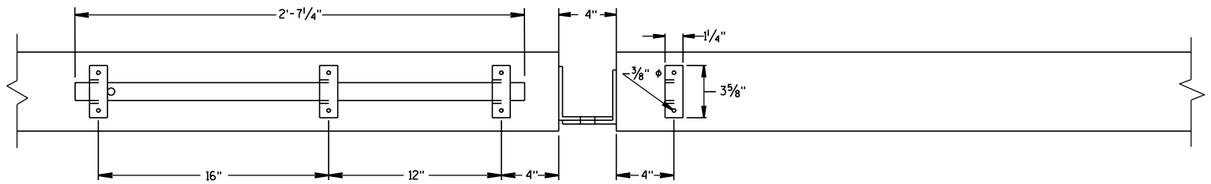


KEYWAY FOR SLIDE BAR

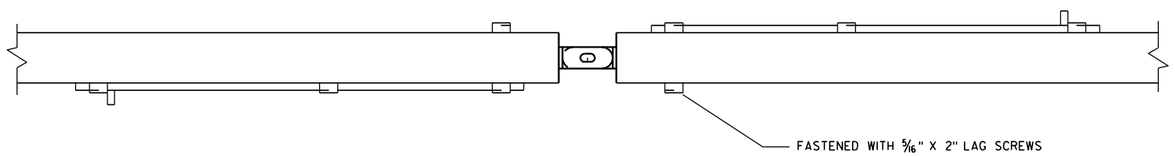
ISOMETRIC VIEW



SECTION FOR SLIDE PIN ASSEMBLY



ELEVATION VIEW



PLAN VIEW

SLIDE BAR ASSEMBLY FOR GATES GREATER THEN 20'-0"

GENERAL NOTES

POSTS SHALL BE SET IN GROUND AT THE DEPTH SHOWN, FILLED AND COMPACTED EVERY 6 INCHES WITH ORIGINAL SUBSOIL.

ALL SAW CUTS AND HOLES DRILLED IN TIMBERS SHALL BE TREATED IN ACCORDANCE WITH SECTION 507.2.2.6 AND WOOD PRESERVATIVE SHALL BE SECTION 507.2.3.4 OF THE STANDARD SPECIFICATIONS.

GATE LOCK CAN BE MASTER KEYED AND SHALL HAVE THE FOLLOWING MINIMUM DIMENSIONS: SHACKLE DIA. OF ⅜", VERTICAL CLEARANCE OF 1½", HORIZONTAL CLEARANCE OF 1/32".

ALL METAL SHALL BE PAINTED WITH A ZINC RICH PRIMER AND ONE COAT OF EPOXY FINISH PAINT. A SECOND FINISH COAT SHALL BE FIELD APPLIED AFTER INSTALLATION.

STOPPING POSTS SHALL BE SET AT EACH SIDE AND EQUIPPED WITH LOCKING POST LOCK BAR FOR HOLDING IN POSITION.

ALL TIMBER BRACES AND HINGE ASSEMBLY SHALL BE SHOP FABRICATED.

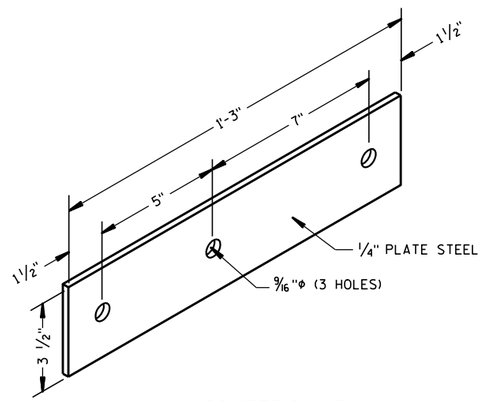
(TABLE OF DIMENSIONS)

CLEAR WIDTH	DISTANCE BETWEEN POSTS	LENGTH OF UPPER GATE BEAM	OVERALL GATE LENGTH
12'-0"	12'-7"	5'-2 ½"	5'-8"
14'-0"	14'-7"	6'-2 ½"	6'-8"
16'-0"	16'-7"	7'-2 ½"	7'-8"
18'-0"	18'-7"	8'-2 ½"	8'-8"
**20'-0"	20'-7"	9'-2 ½"	9'-8"
** 24'-0"	24'-7"	11'-2 ½"	11'-8"
** 28'-0"	28'-7"	13'-2 ½"	13'-8"
** 30'-0"	30'-7"	14'-2 ½"	14'-8"
** 32'-0"	32'-7"	15'-2 ½"	15'-8"

**FOR A 20' AND UP CLEAR WIDTH OPENING - HINGE BRACKET (OPTION B) IS TO BE USED INSTEAD OF THE BOLT HOOK, AND HINGE POST SHALL BE AT A MIN. DEPTH OF 6'-0" AND SLIDE BAR ASSEMBLY SHALL BE USED.

DESIGN NOTE:

GATE SIZE SHALL BE SPECIFIED AS THE CLEAR WIDTH OF OPENING.



ISOMETRIC VIEW

UPPER AND LOWER SPLICE PLATES

WOOD GATE, DOUBLE LEAF

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

1/5/94 DATE

/S/ Rory L. Rhinesmith
CHIEF METHODS DEVELOP ENGINEER

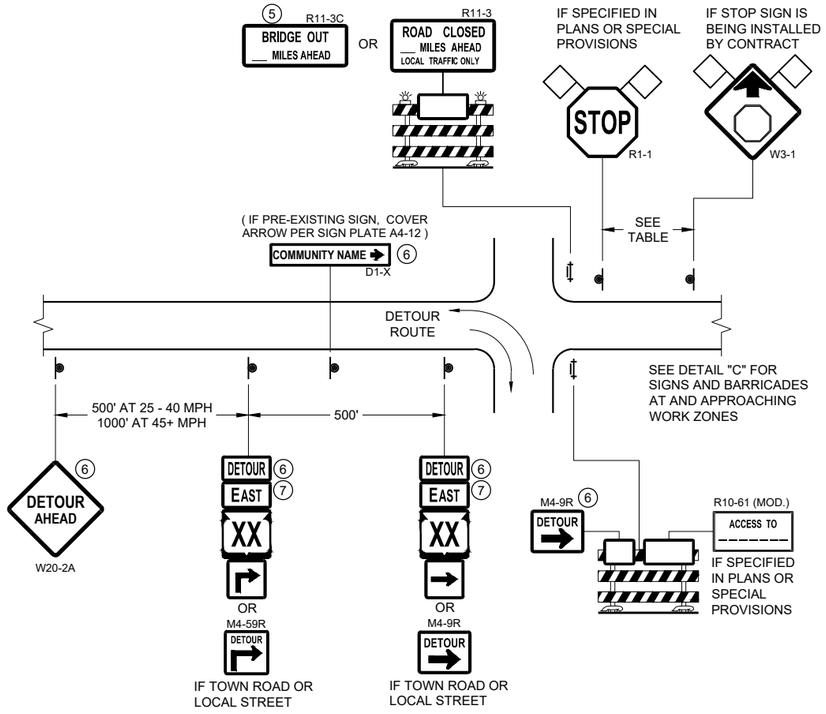
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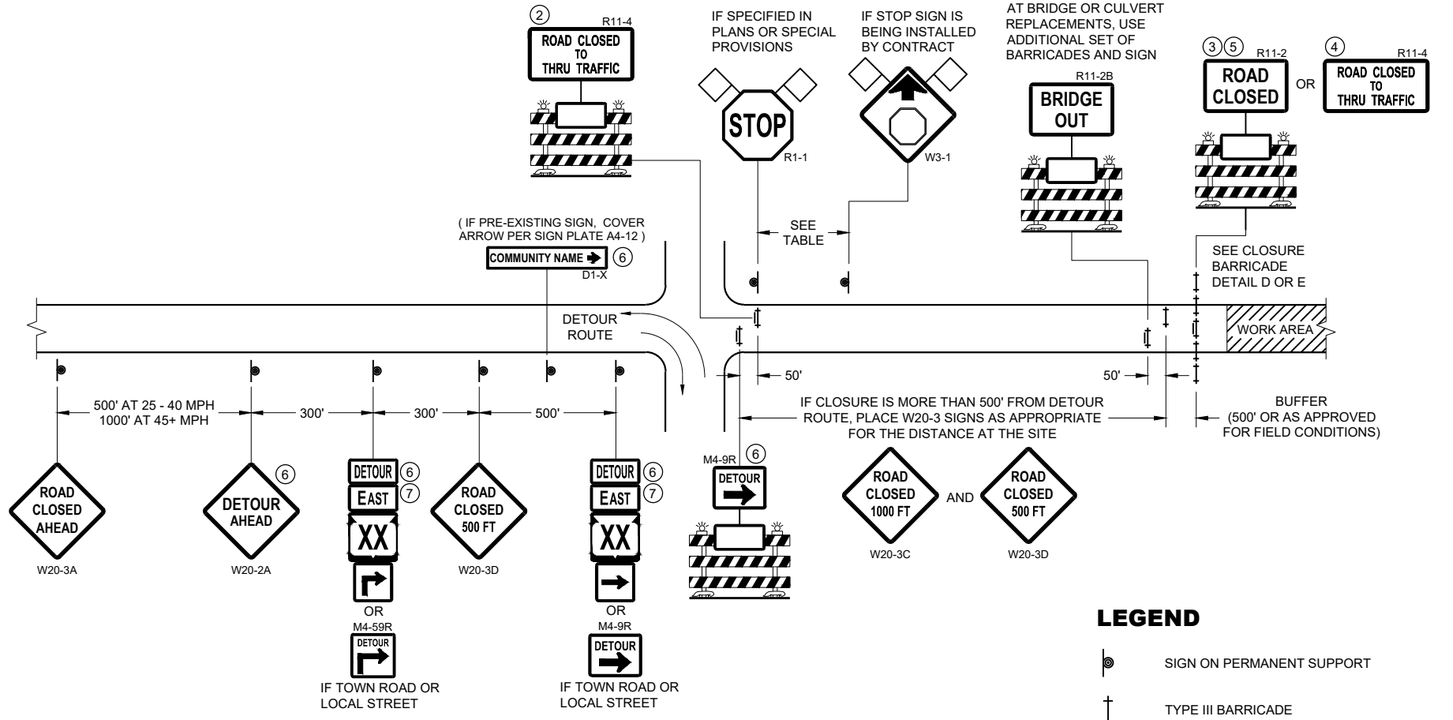
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S.D.D. 15 B 10-1c

6

S.D.D. 15 B 10-1c



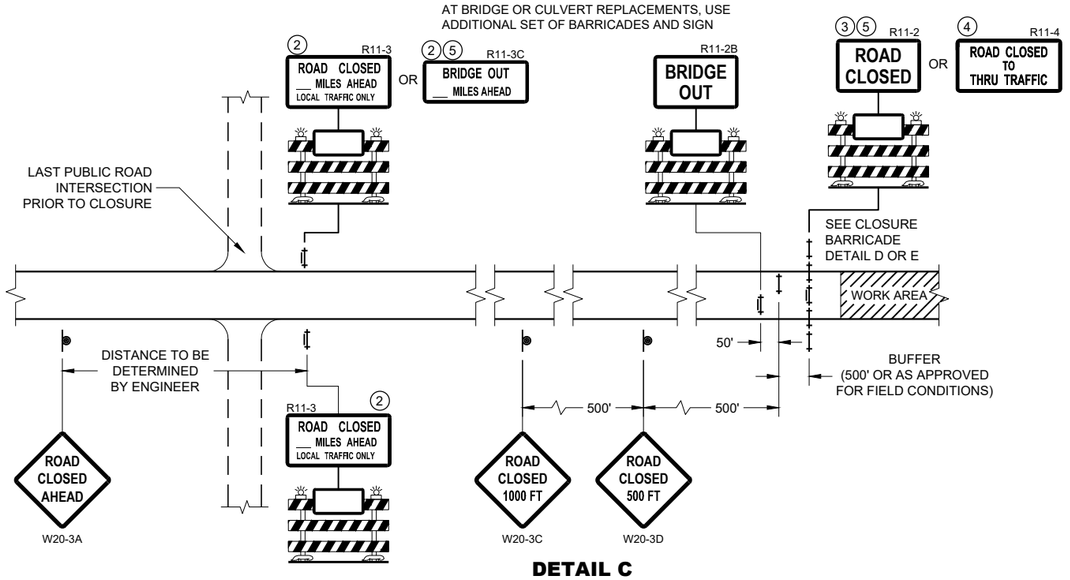


DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

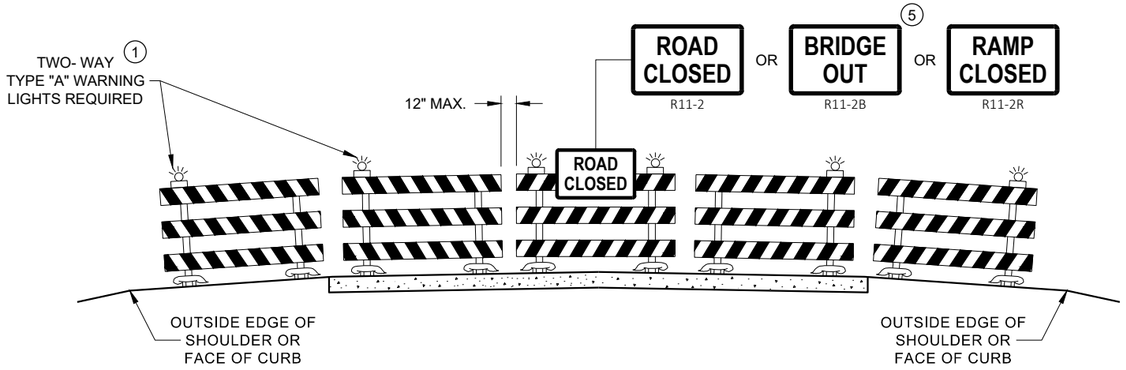
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

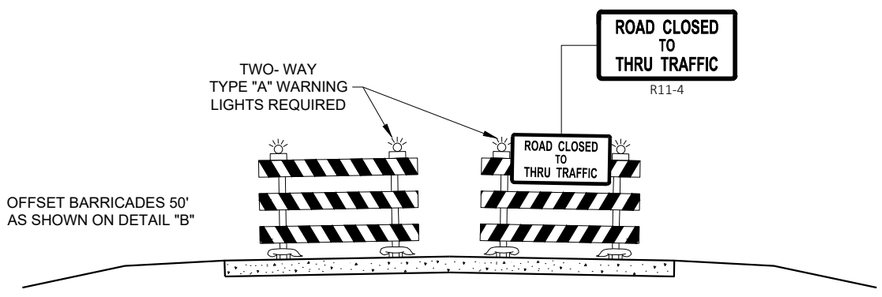
SDD 15C02 - 08a

6

SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C02 - 08b

6

SDD 15C02 - 08b

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

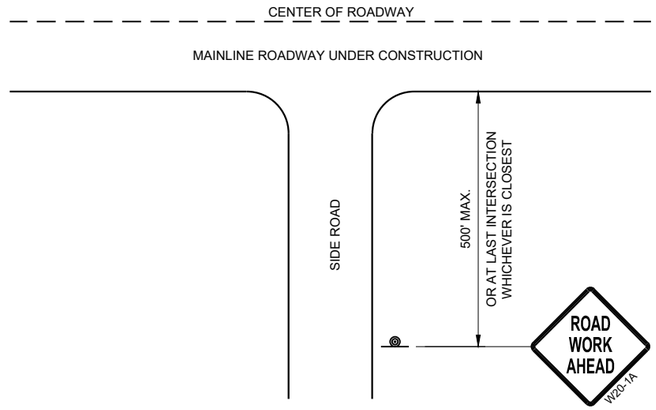
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

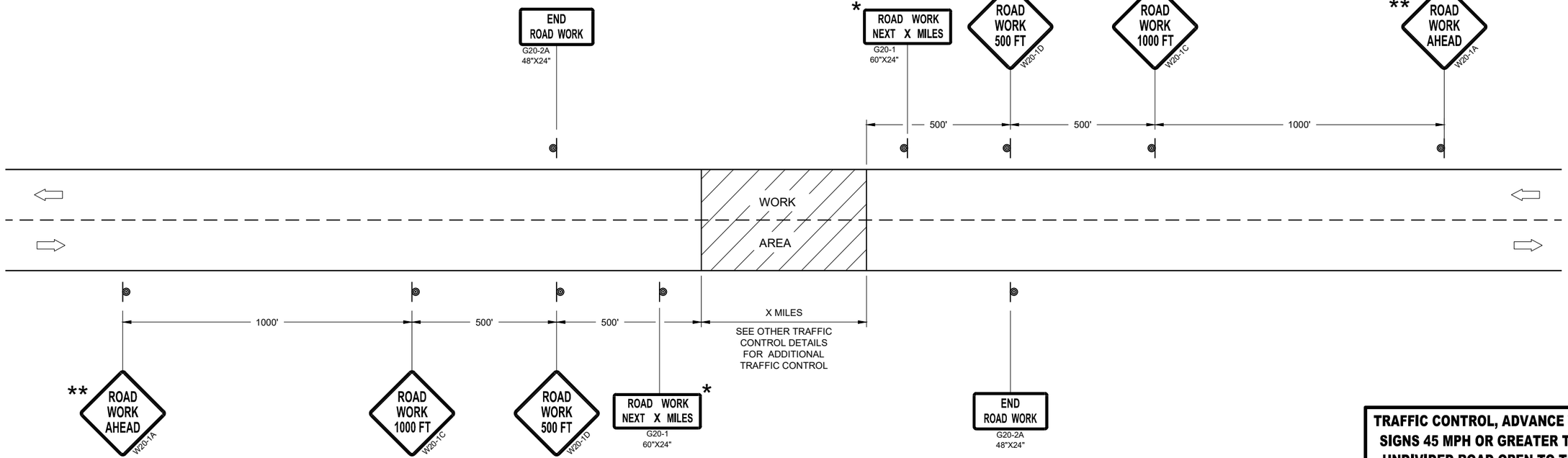
** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C04 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

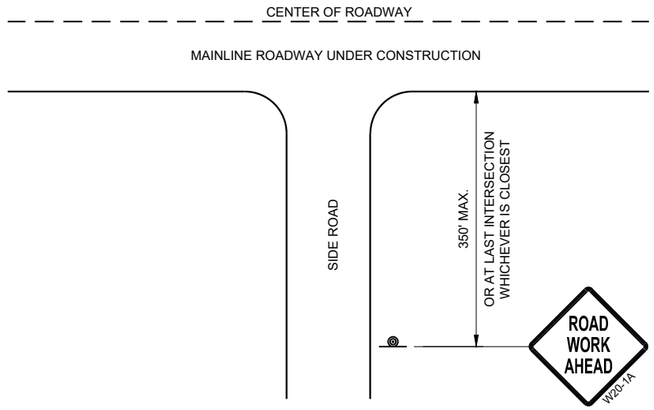
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



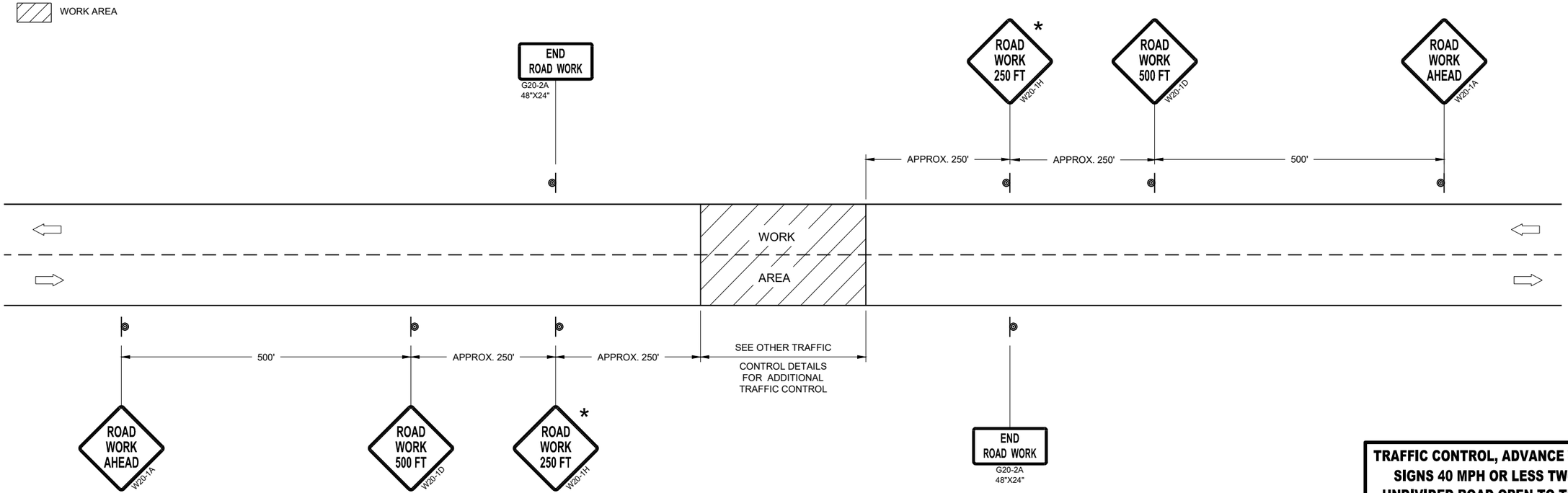
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

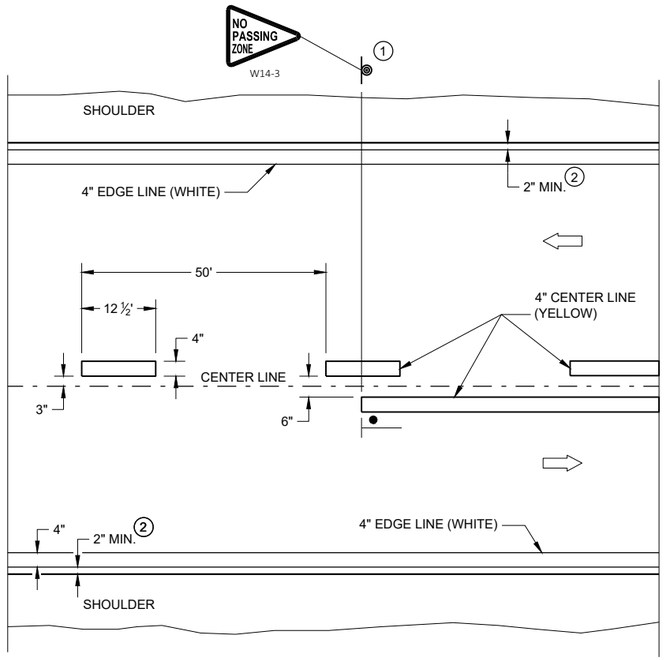
APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

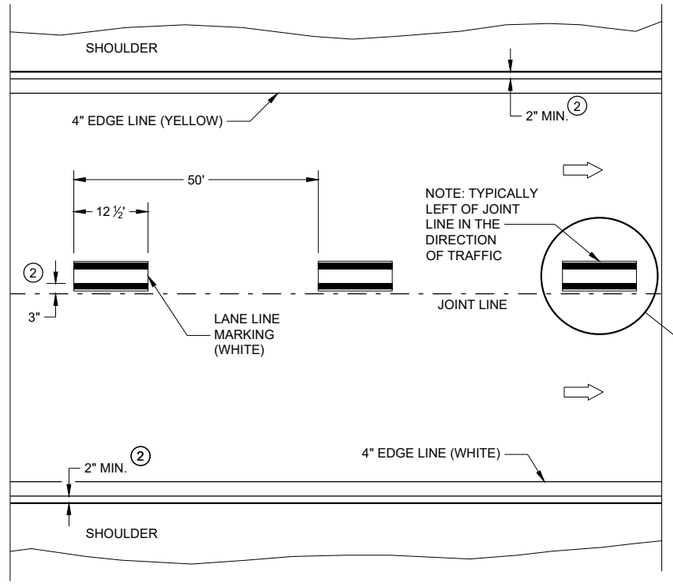
FHWA

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SDD 15C05 - 05

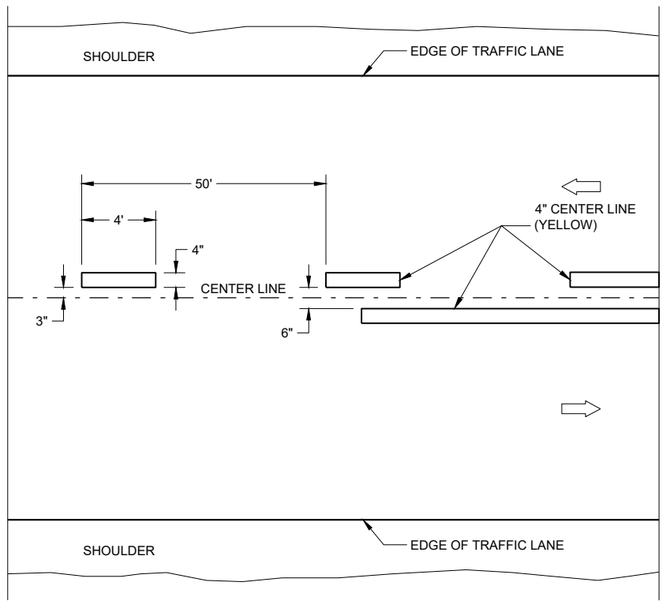


TWO WAY TRAFFIC

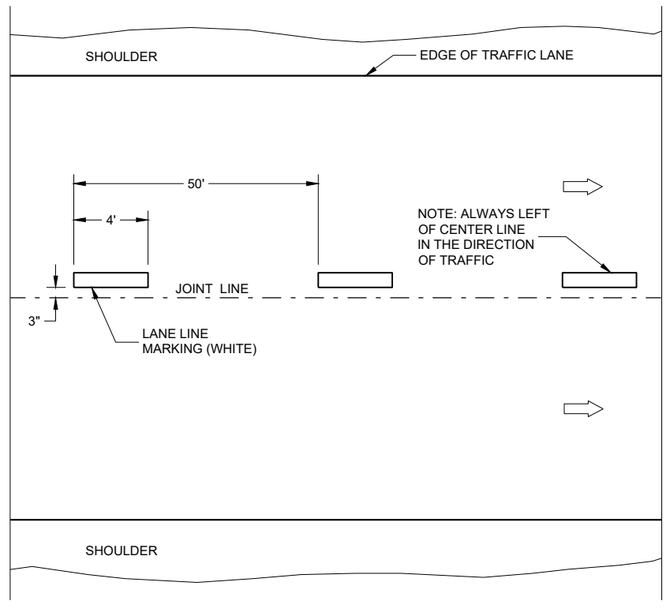


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

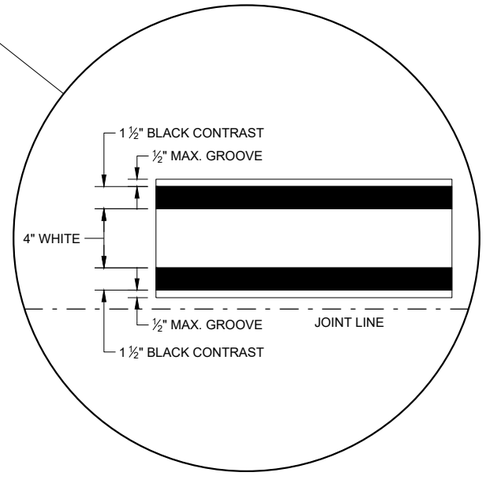
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITH 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Matthew Rauch
STATEWIDE SIGNING AND M
ENGINEER

FHWA

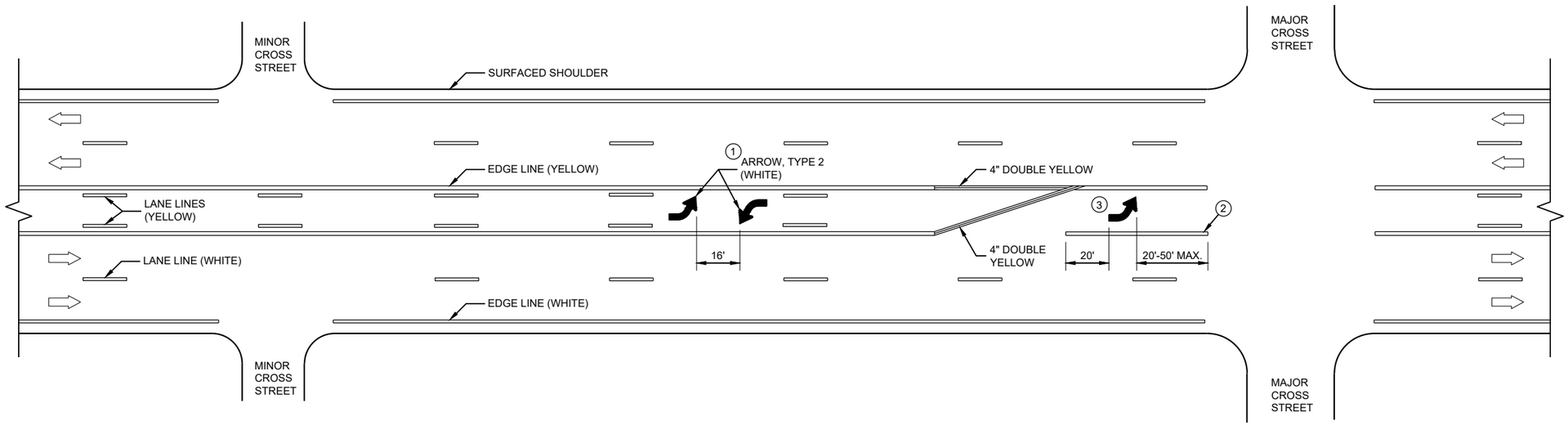
SDD 15C08 - 20a

SDD 15C08 - 20a

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

6

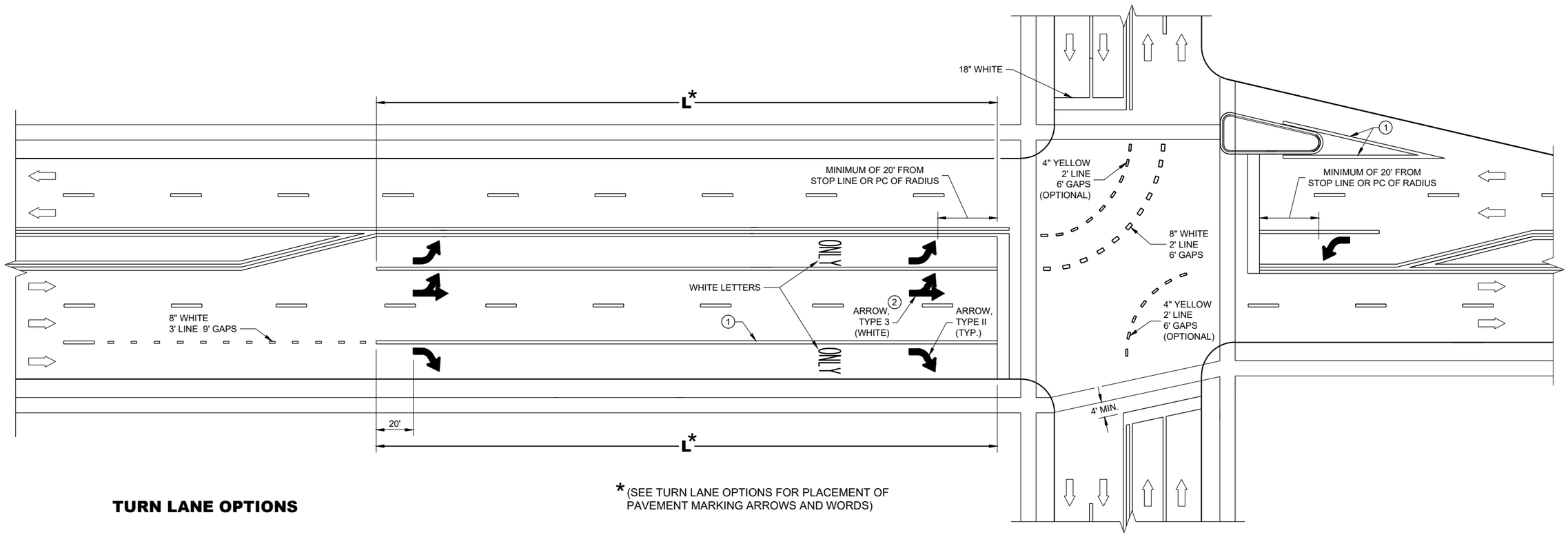
SDD 15C08 - 20b

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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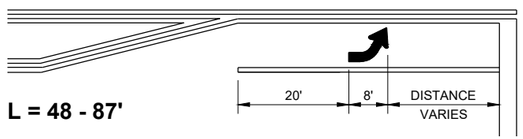
SDD 15C08 - 20b



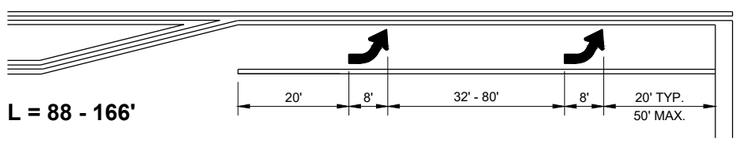
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

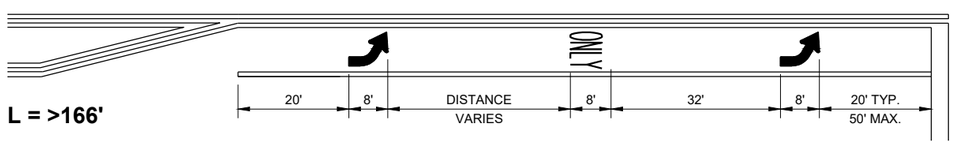
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

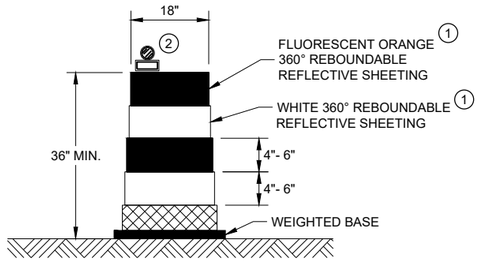
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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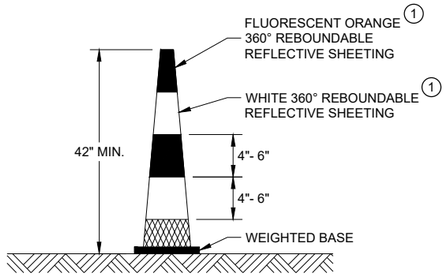
SDD 15C08 - 20c

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

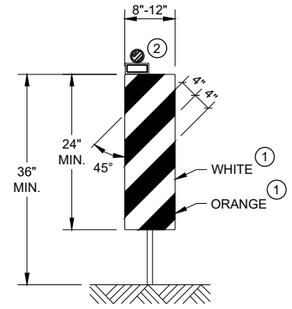


DRUM



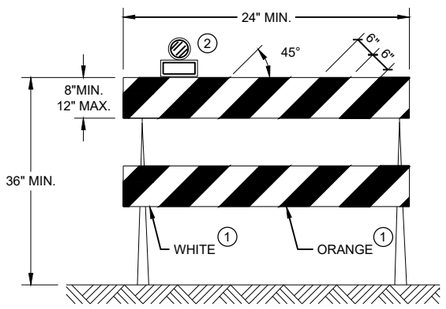
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



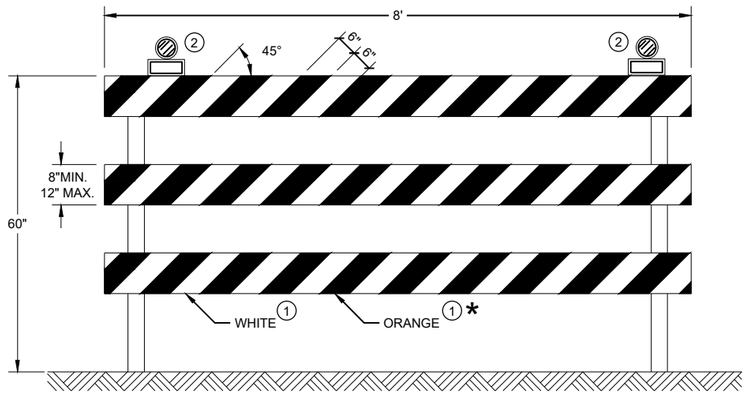
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C11 - 07b

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SDD 15C11 - 07b

LEGEND

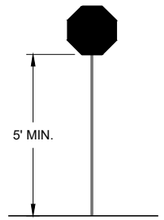
SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



STOP/SLOW PADDLE ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

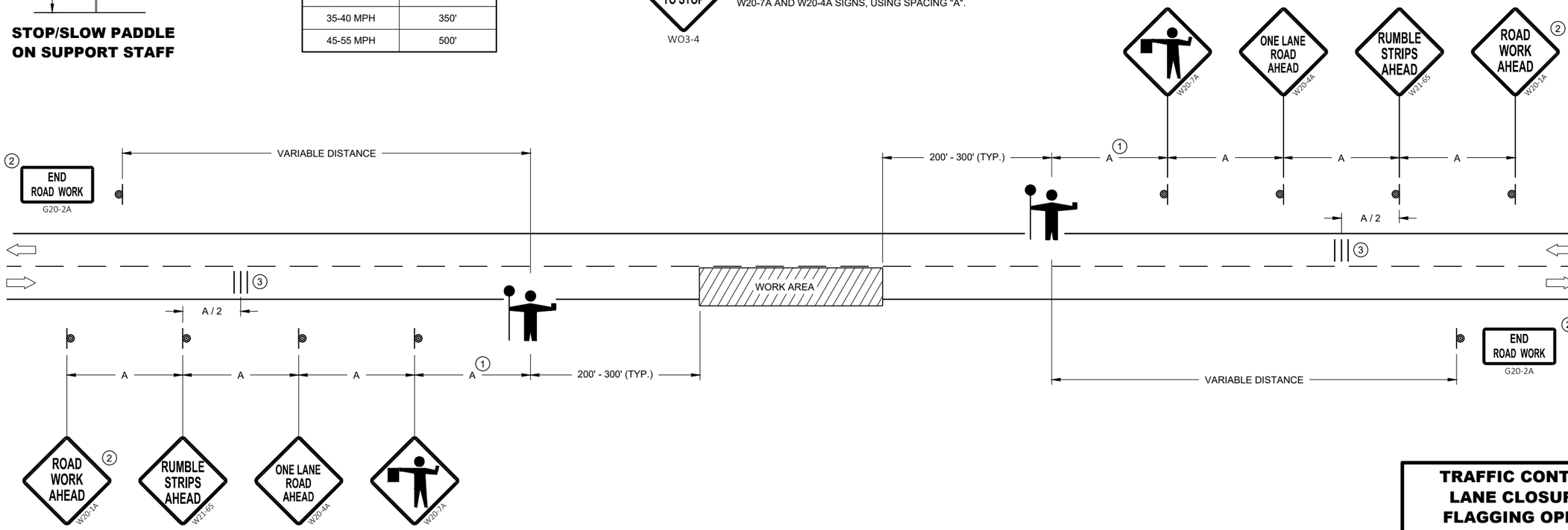
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

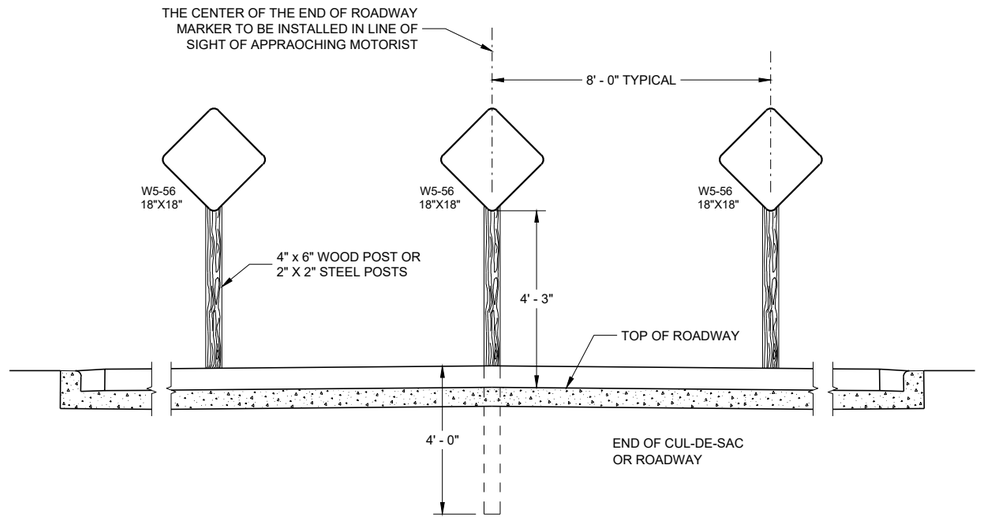
SDD 15C12 - 07

GENERAL NOTES

SIGN LOCATIONS SHOWN ARE TYPICAL PLACEMENT AND MAY BE ADJUSTED BY THE ENGINEER AS FIELD CONDITIONS DICTATE.

THE MINIMUM NUMBER OF END-OF-ROADWAY SIGNS ARE THREE (AS SHOWN). ADDITIONAL END-OF-ROADWAY SIGNS MAY BE INSTALLED AS FIELD CONDITIONS DICTATE. (SEE SIGNING PLAN).

WHEN BEAMGUARD IS REQUIRED, PLACE END-OF-ROADWAY SIGNING BEHIND BEAMGUARD.



TYPICAL SIGN INSTALLATION

6

6

SDD 15C26 - 04

SDD 15C26 - 04

END-OF-ROADWAY SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAR ENGINEER

FHWA

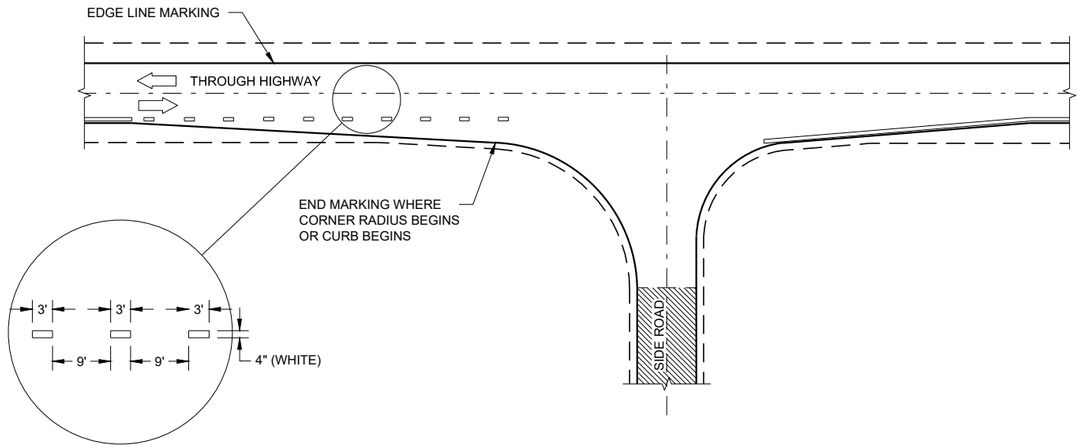
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

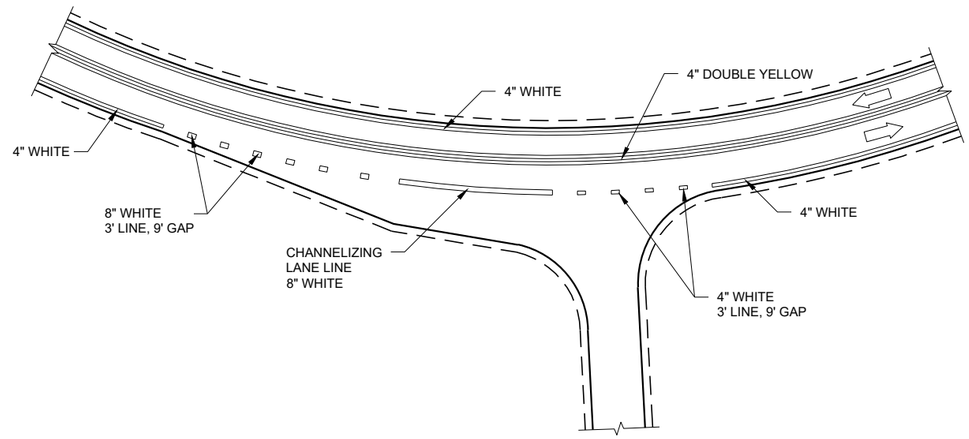
1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

LEGEND

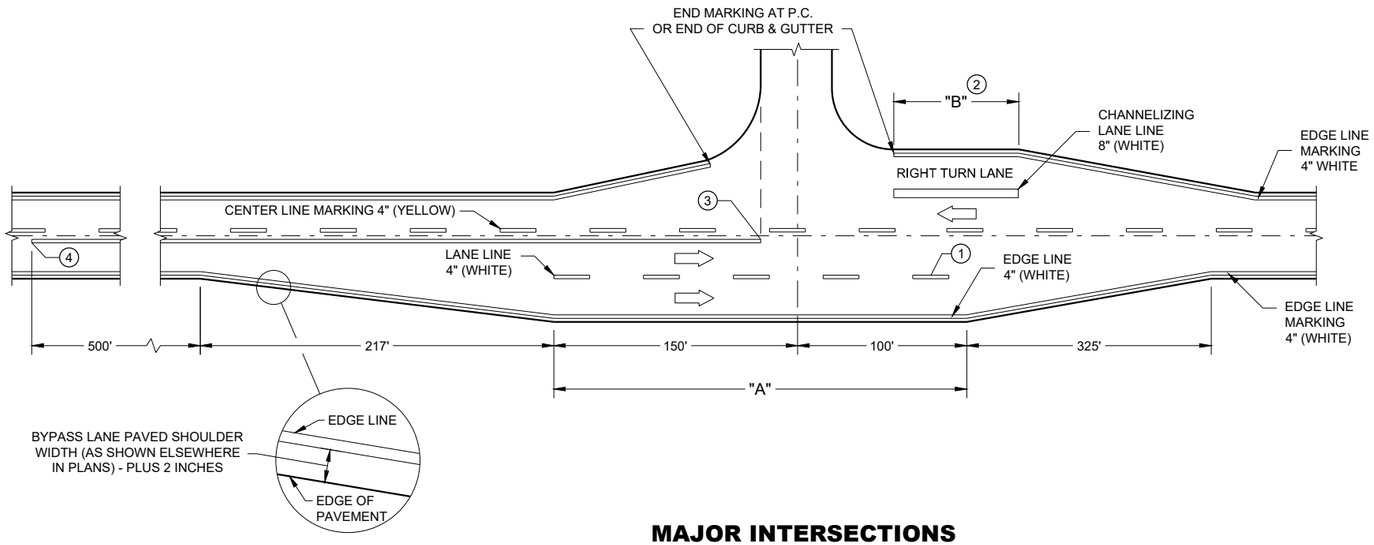
DIRECTION OF TRAVEL



MINOR INTERSECTION



INTERSECTION ON OUTSIDE OF CURVE



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C35 - 04a

GENERAL NOTES

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

(2) IF NEEDED. USE ONLY IF DESIGN SPEED IS 10 MPH LESS THAN POSTED SPEED.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- REMOVING PAVEMENT MARKING
- CONCRETE BARRIER TEMPORARY PRECAST
- DIRECTION OF TRAFFIC
- WORK AREA



OR





R2-1
48"X60"

OR



R2-1
48"X60"

IF THE REGULATORY SPEED HAS BEEN REDUCED, A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN A MINIMUM OF EVERY 3 MILES.

LOCATED 400 FEET BEYOND THE W20- 5G SIGN.

SEE SDD 15D12b FOR SIGN PLACEMENT.

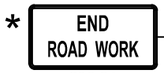
(BLACK AND WHITE)

LOCATED 700 FEET BEYOND W03-5 SIGN

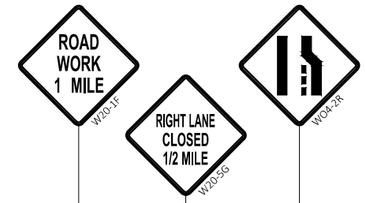


WO13-1
36"X36"

* INCLUDE RESUME SPEED LIMIT SIGN A MINIMUM OF 200 FEET (500 FEET DESIRABLE) AFTER END ROAD WORK SIGNS.



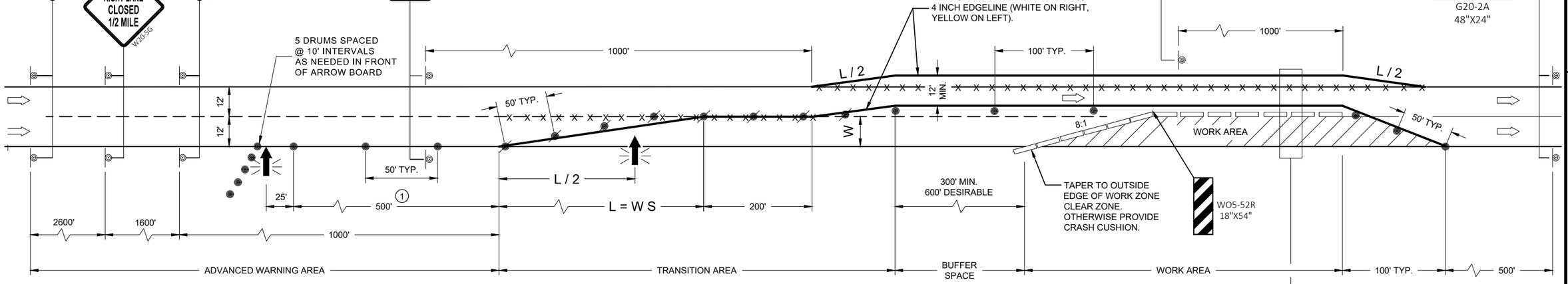
G20-2A
48"X24"



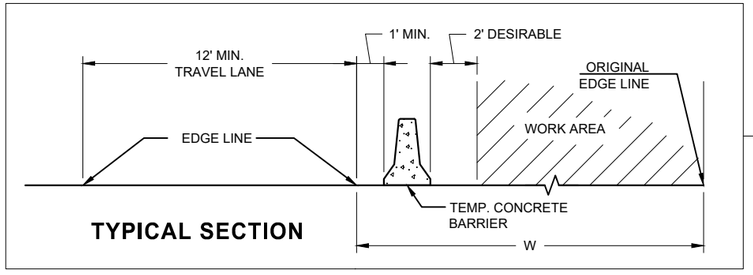




WO13-1
36"X36"



L, TAPER LENGTH (MPH)												
SPEED (MPH)	W, LATERAL OFFSET (FT)											
	1	2	3	4	5	6	7	8	9	10	11	12
45	45	90	135	180	225	270	315	360	405	450	495	540
50	50	100	150	200	250	300	350	400	450	500	550	600
55	55	110	165	220	275	330	385	440	495	550	605	660
60	60	120	180	240	300	360	420	480	540	600	660	720
65	65	130	195	260	325	390	455	520	585	650	715	780
70	70	140	210	280	350	420	490	560	630	700	770	840



TYPICAL SECTION

TRAFFIC CONTROL LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINE

FHWA

SDD 15D03-05

SDD 15D03-05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

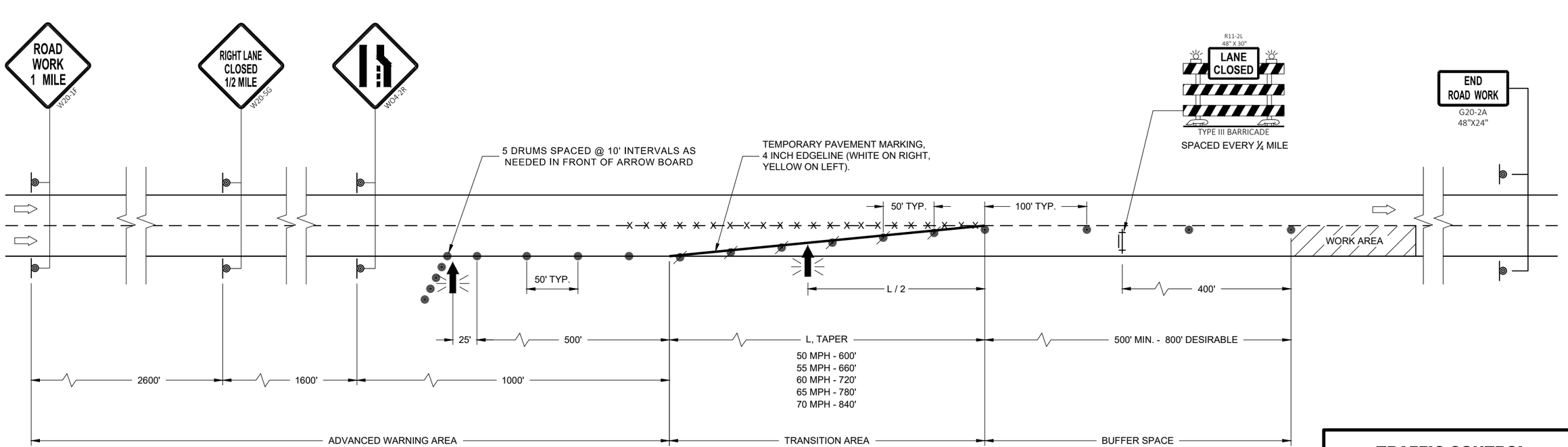
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D12 - 09a

6

SDD 15D12 - 09a

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

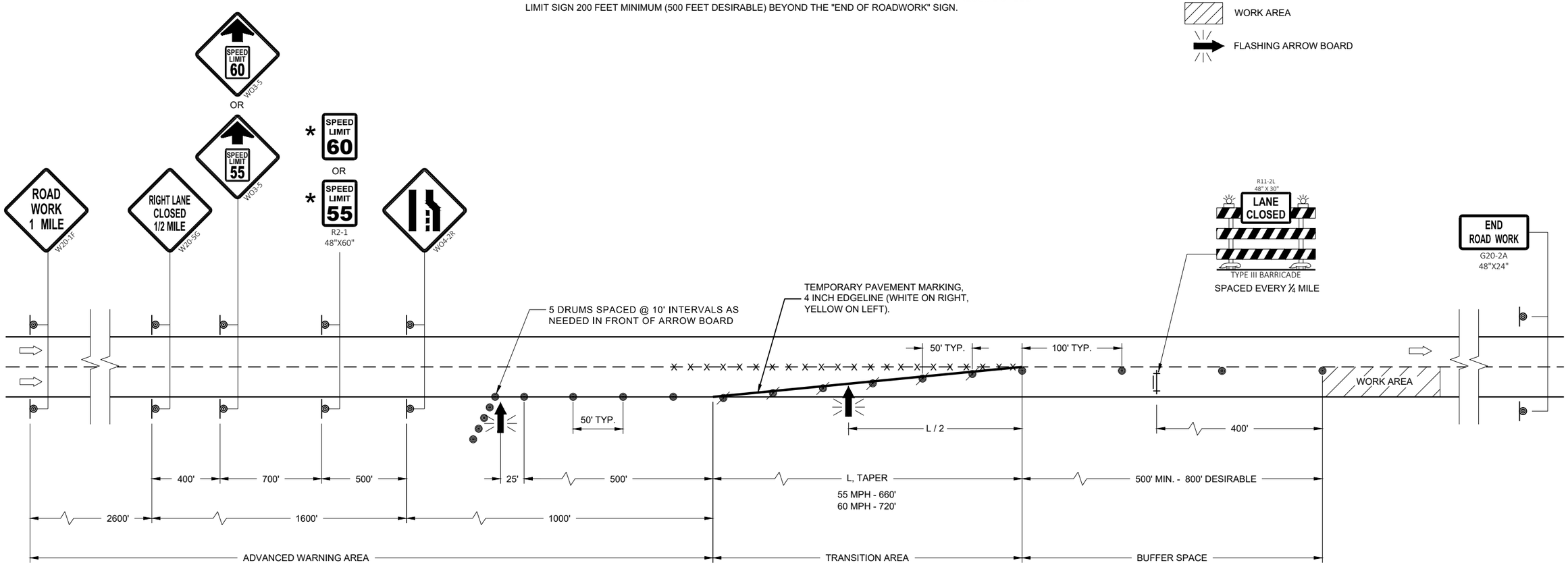
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN A MINIMUM OF EVERY 3 MILES. INCLUDE A RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIRABLE) BEYOND THE "END OF ROADWORK" SIGN.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15D12 - 09b

6
SDD 15D12 - 09b

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

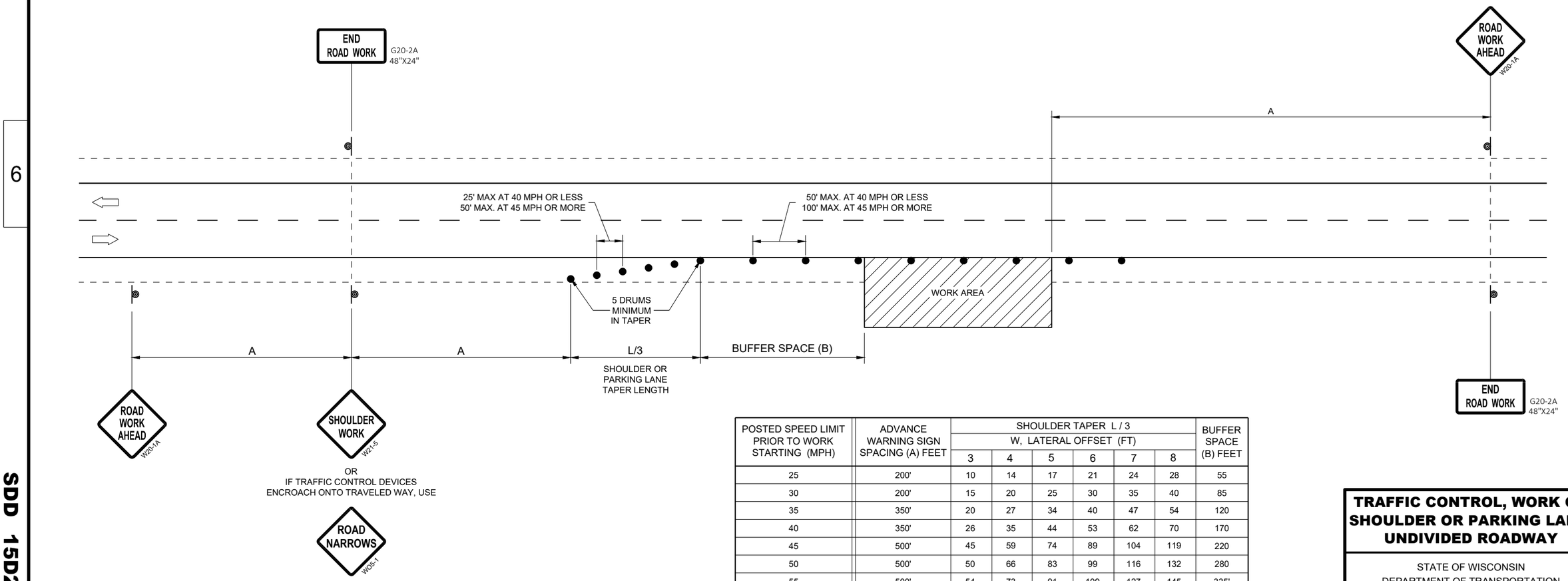
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

SDD 15D28 - 04

SDD 15D28 - 04

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET
0-30	200'
35-40	350'
45-55	500'

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

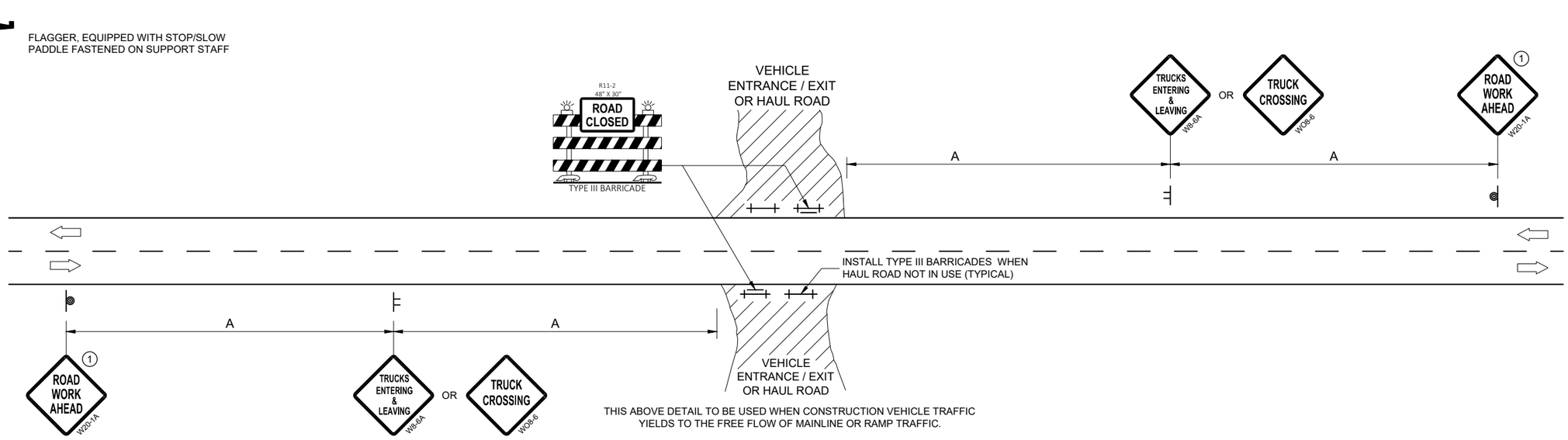
WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

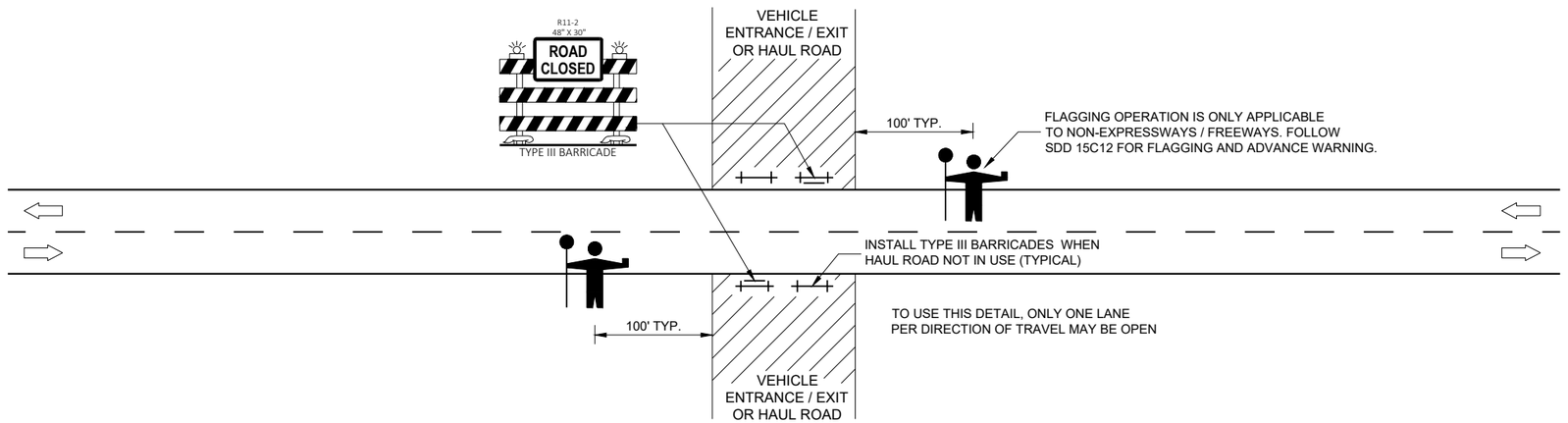
WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND / OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

(1) THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE ENTRANCE / EXIT CONDITIONS ARE SEPARATED BY MORE THAN TWO MILES FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.



THIS ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC.



TO USE THIS DETAIL, ONLY ONE LANE PER DIRECTION OF TRAVEL MAY BE OPEN

THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

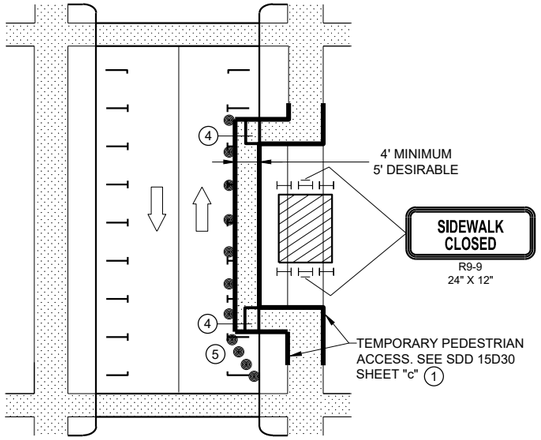
APPROVED
May 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

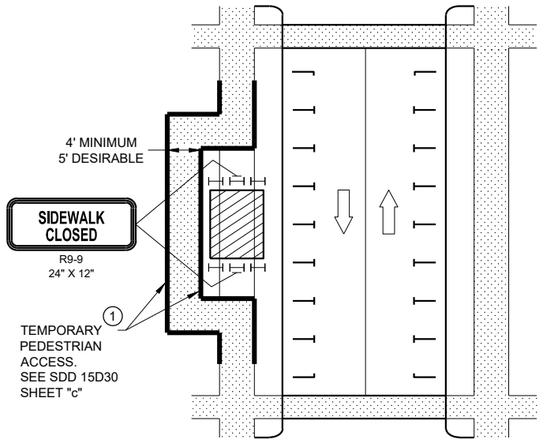
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SDD 15D29 - 06

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

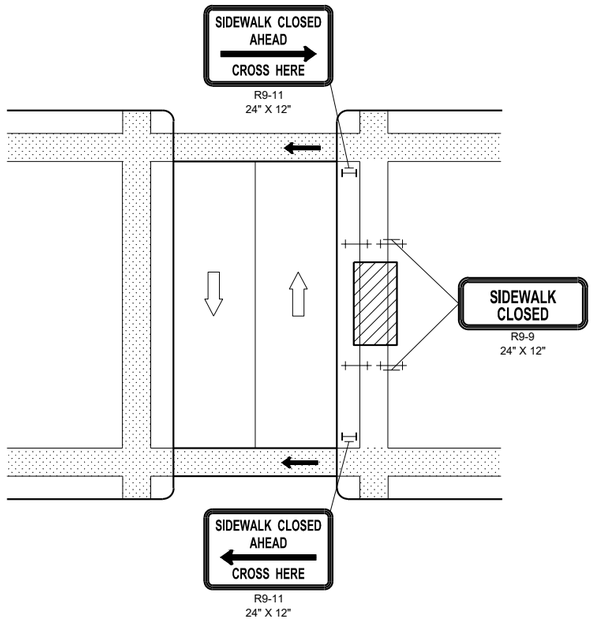


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

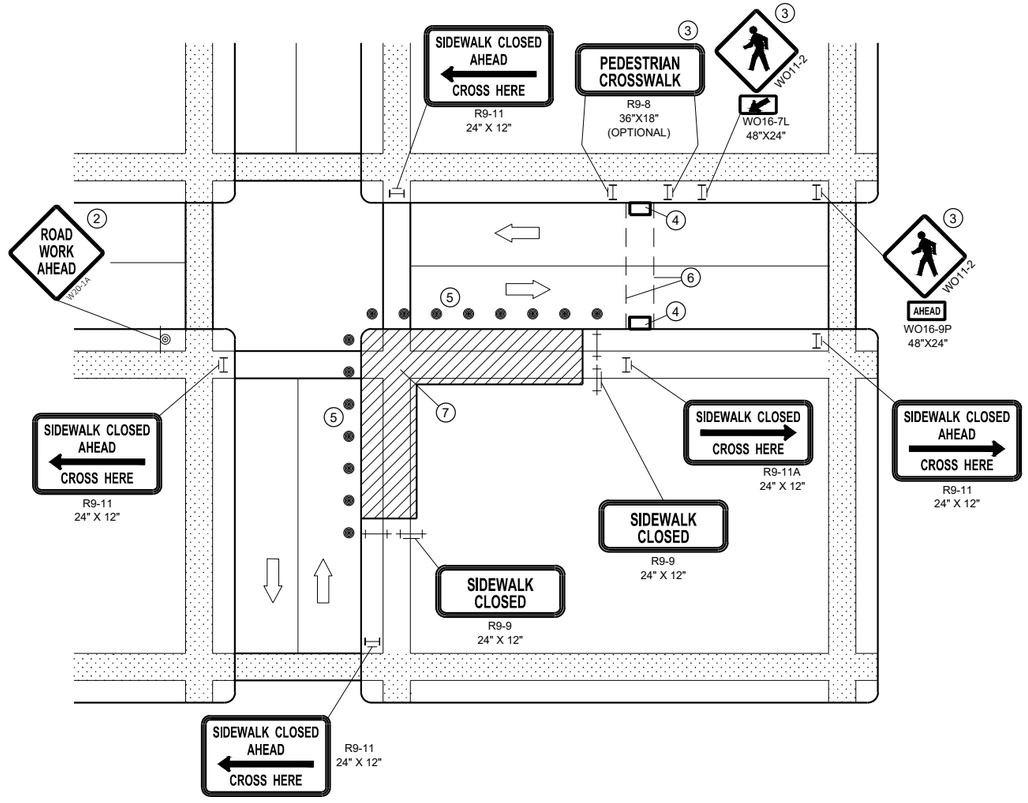
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN, EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEK LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE
2. "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.
3. IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.
4. TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.
5. DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
6. TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
7. LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

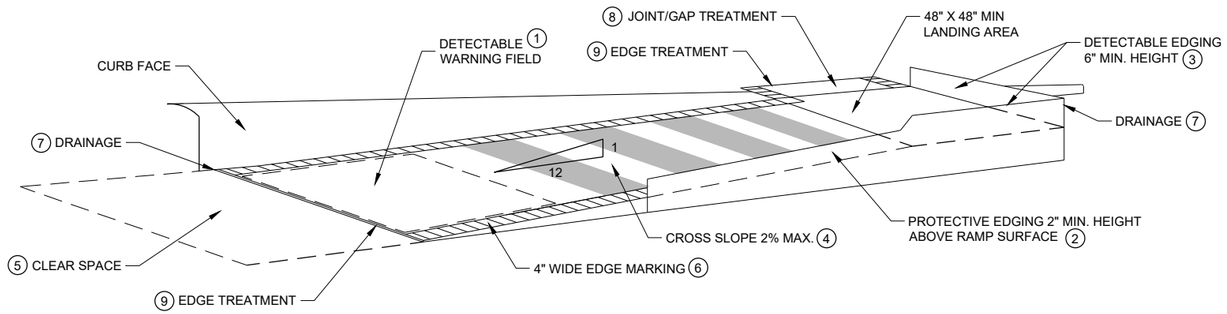
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

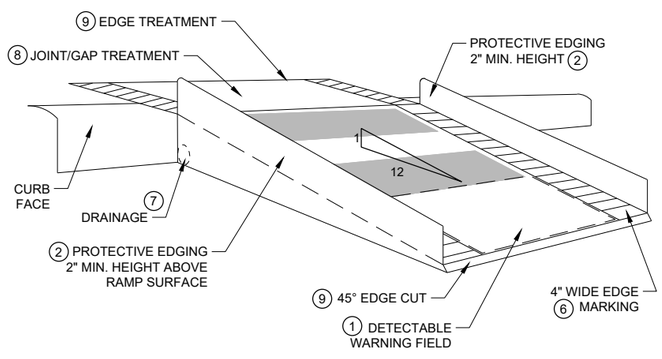
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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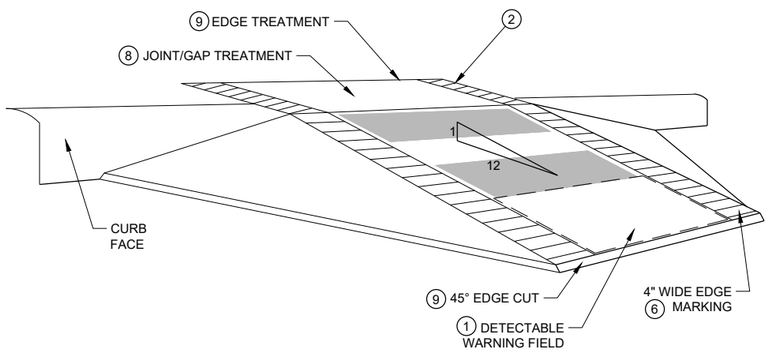
SDD15D30 - 06a



TEMPORARY CURB RAMP PARALLEL TO CURB



WITH PROTECTIVE EDGE



WITH SIDE APRON

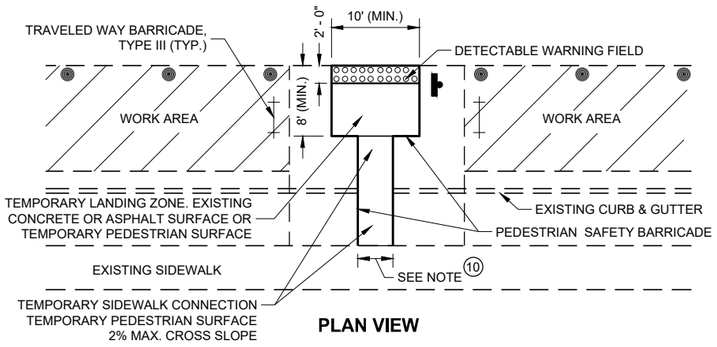
TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

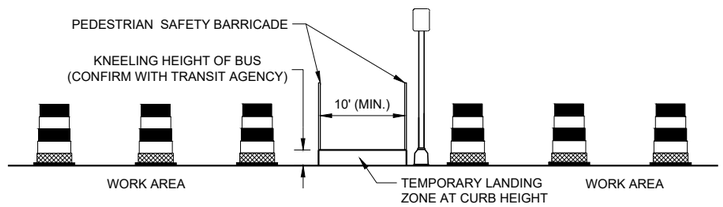
NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 08D05, SHEET "e".
2. PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
5. CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
7. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES SHALL BE VERTICAL UP TO ¼" HIGH AND BEVELED AT 1:2 BETWEEN ¼" AND ½".
10. 5" WIDE MIN. WITH PEDESTRIAN SAFETY BARRICADE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY BARRICADE.



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

LEGEND

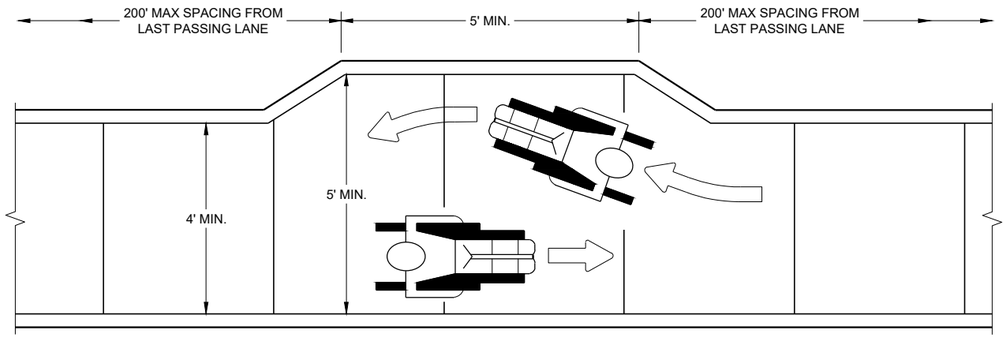
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- WORK AREA

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

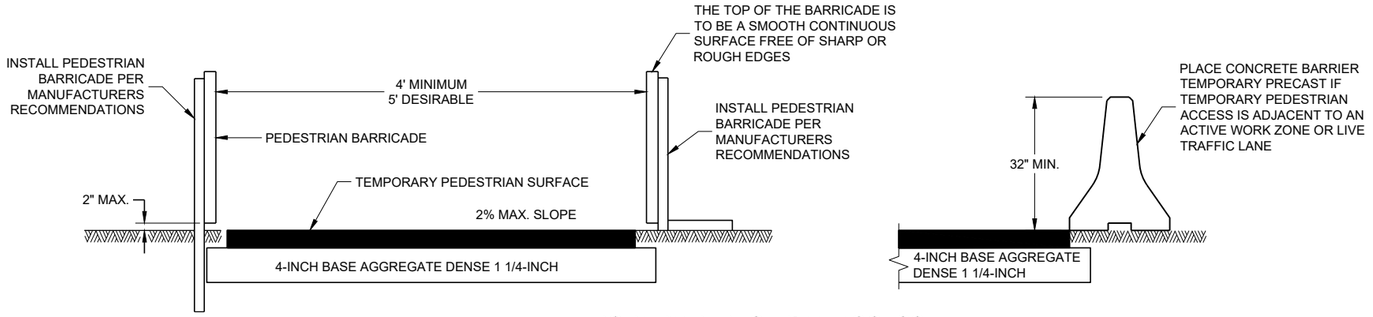
STATE OF WISCONSIN
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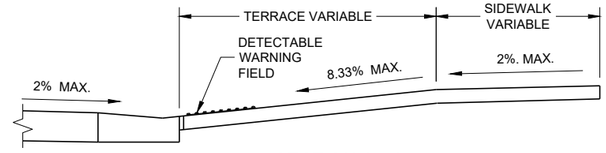
SDD 15D30 - 06b



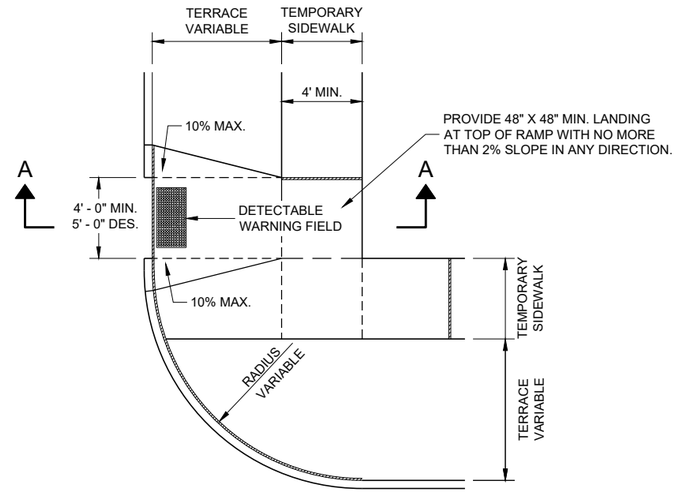
NARROW SIDEWALK PASSING DETAIL



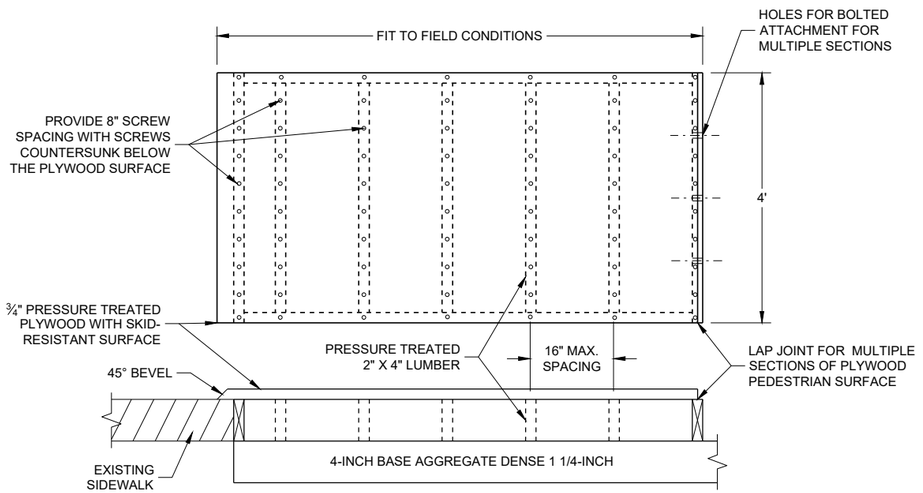
TEMPORARY PEDESTRIAN ACCESS



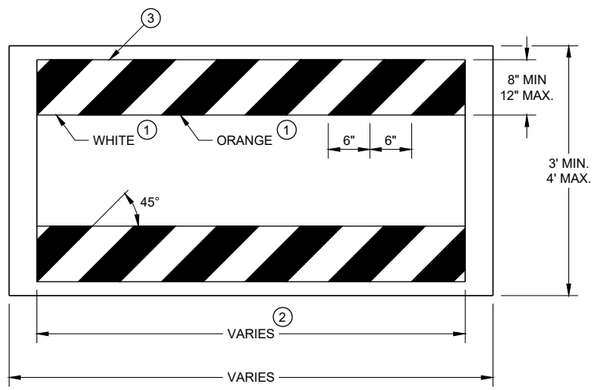
SECTION A - A



PLAN VIEW
TEMPORARY TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



TEMPORARY PEDESTRIAN BARRICADE *

GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
3. PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
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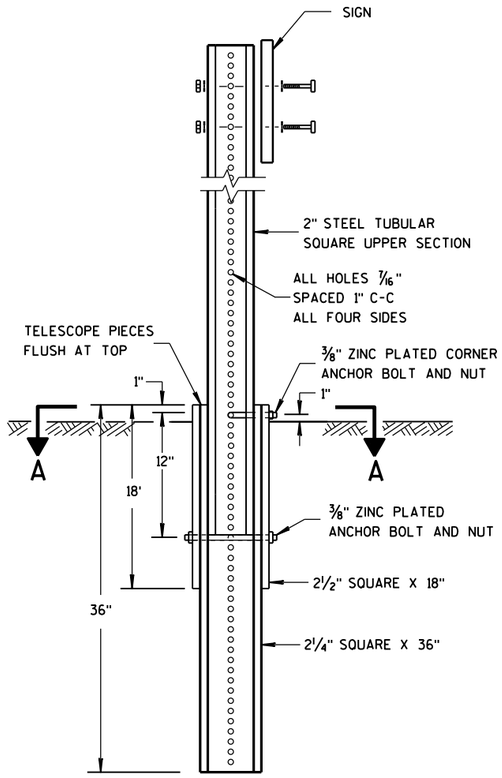
APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

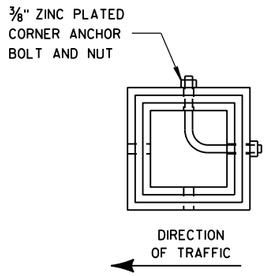
FHWA

SDD 15D30 - 06c

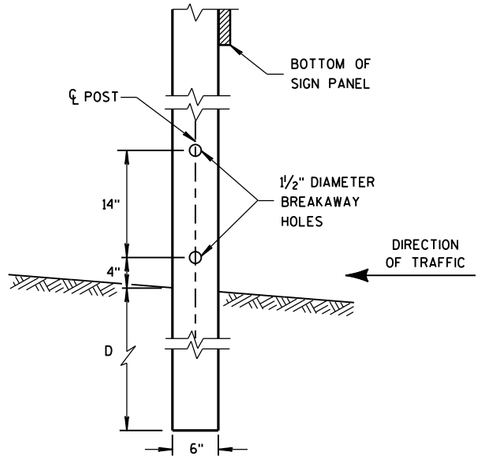
6
SDD 15D30 - 06c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



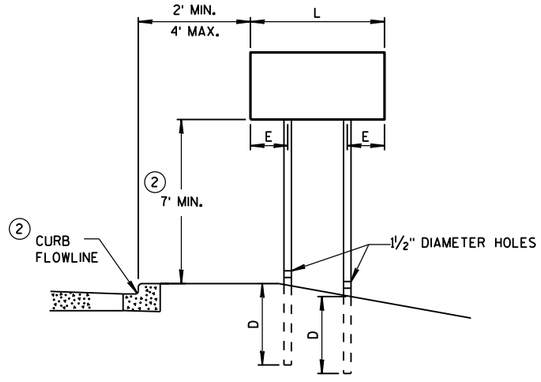
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

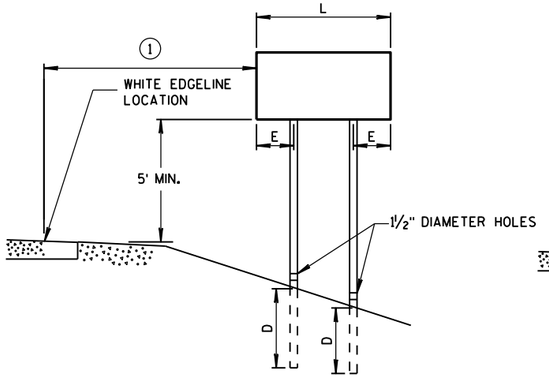
1. 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

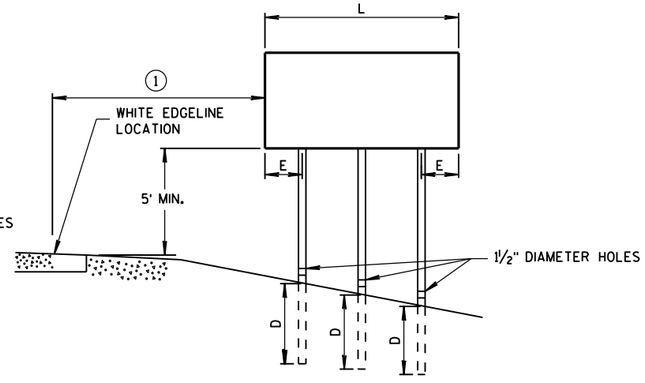
2. THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

3. FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

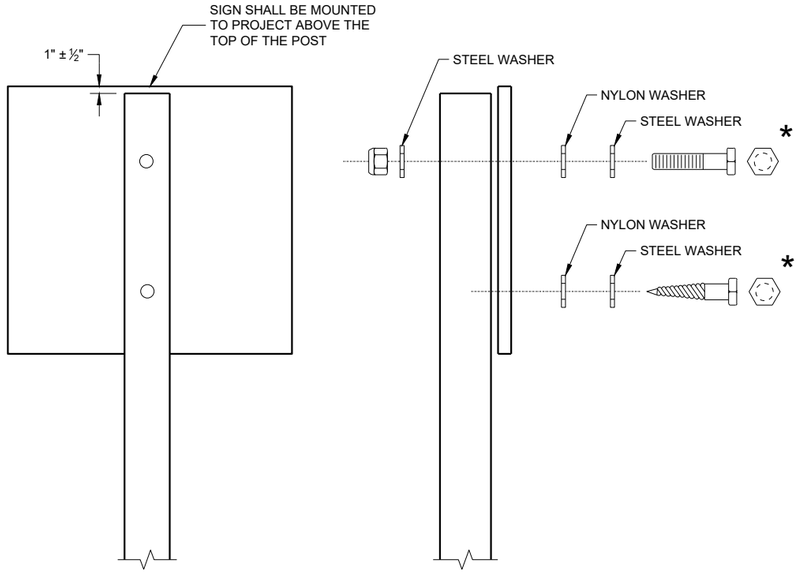
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-2a
S.D.D. 15 D 38-2a



NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POST (4" x 6")
LAG SCREWS - ⅜" x 3"
MACHINE BOLTS - 5/16" x 6 ½" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")
MACHINE BOLTS - ⅜" x 3 ¼" LENGTH W/NUTS
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH, GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
1 ¼" O.D. x ⅜" I.D. x 1/16" STEEL
1 ¼" O.D. x ⅜" I.D. x 0.080 NYLON

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

SDD 15D38 - 02b

SDD15D38 - 02b

ATTACHMENT OF SIGNS TO POSTS

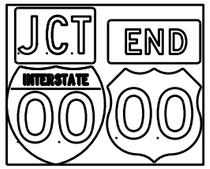
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

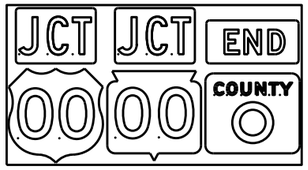
TYPICAL ASSEMBLIES



J1-1



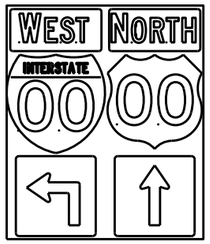
J1-2



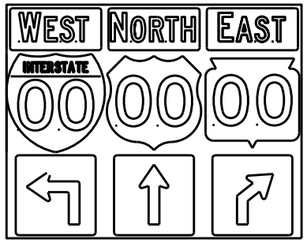
J1-3



J2-1



J2-2

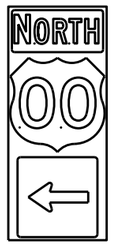


J2-3

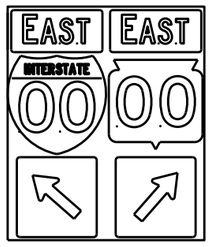


JV

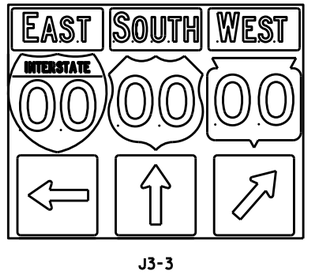
(Typical Vertical J-Assembly
See Note 10 and 11)



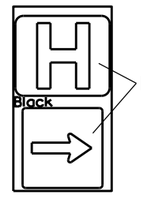
J3-1



J3-2



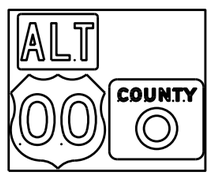
J3-3



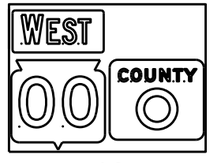
JH-1



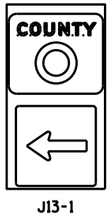
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

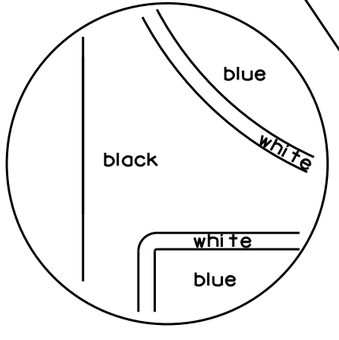


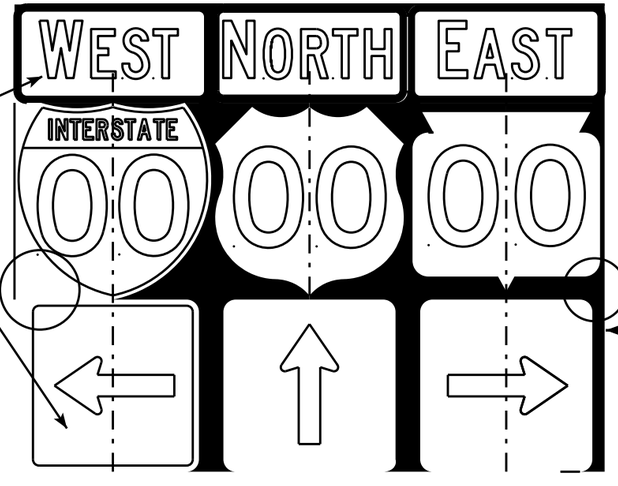
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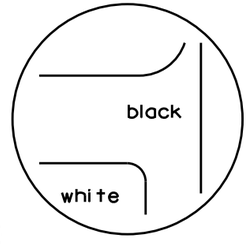


J22-1

blue background
with interstate







black background

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

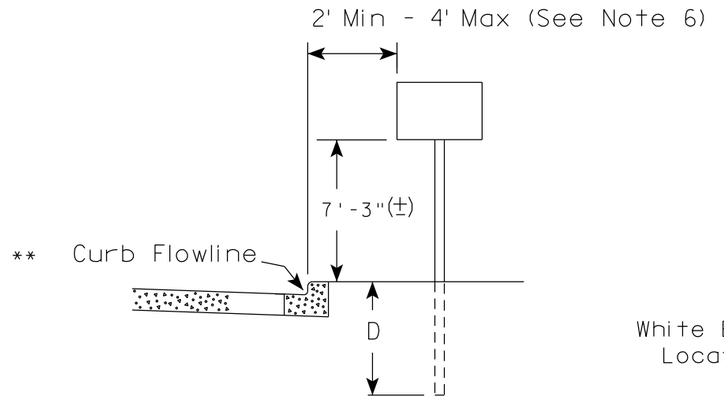
DATE 2/06/14 PL... A2-1S.8

PROJECT NO: | SHEET NO: E

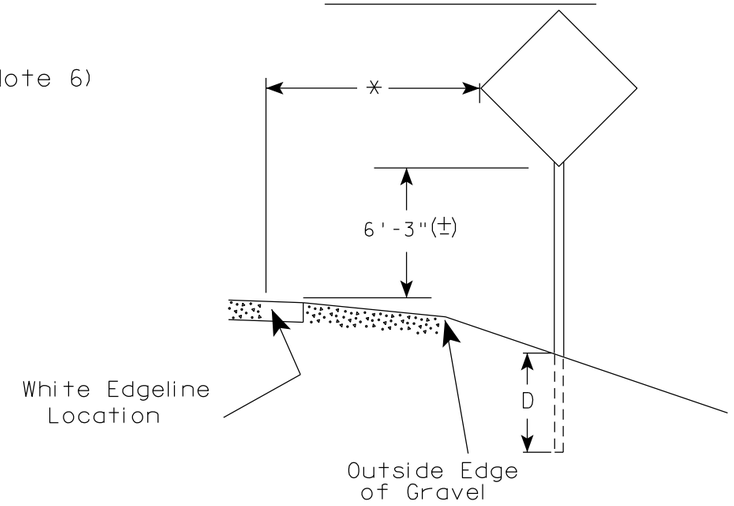
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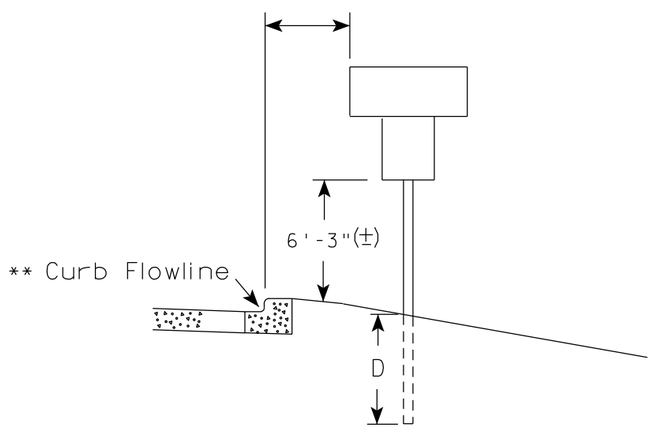
WISDOT/CADDS SHEET 42

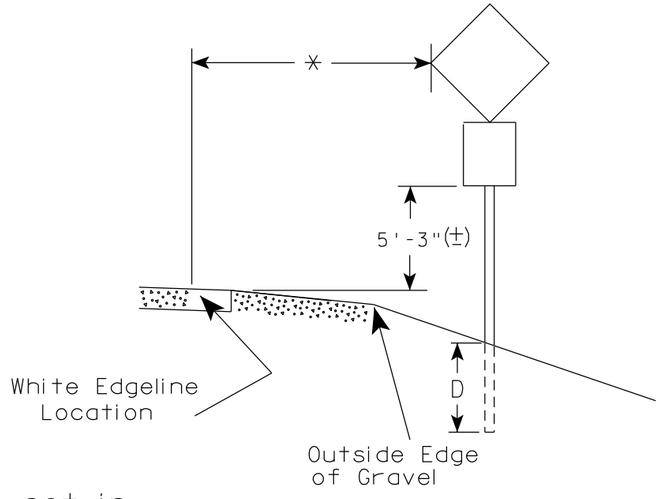
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

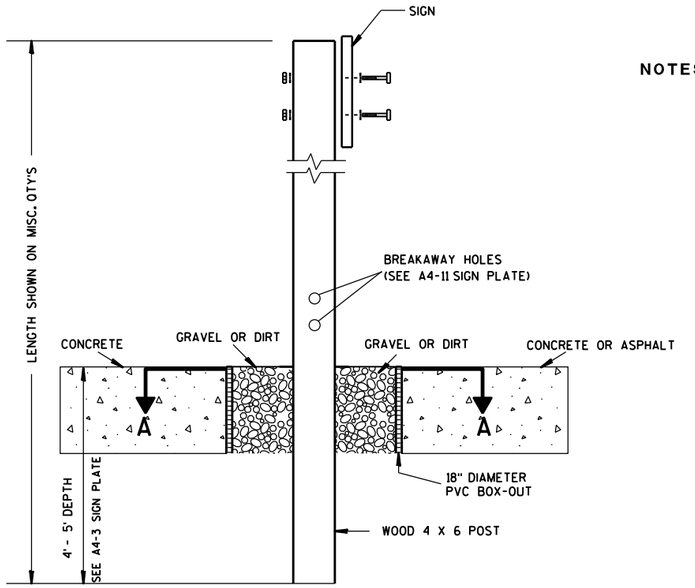
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

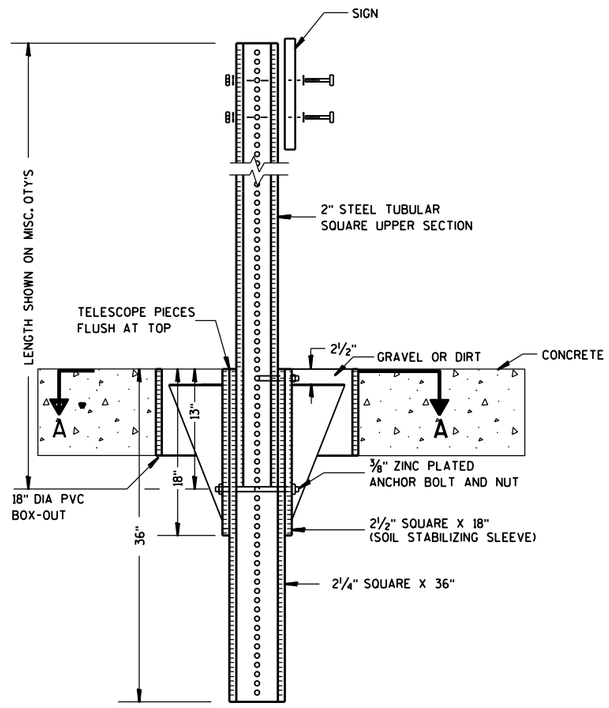
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 209	E



ELEVATION VIEW

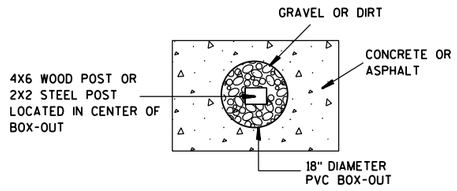
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

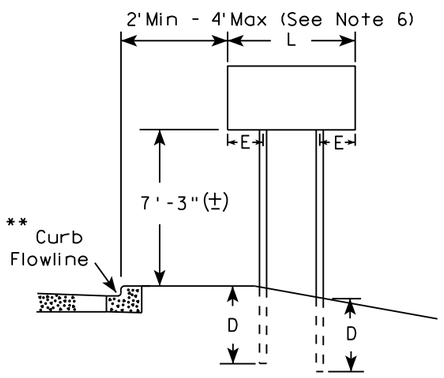
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

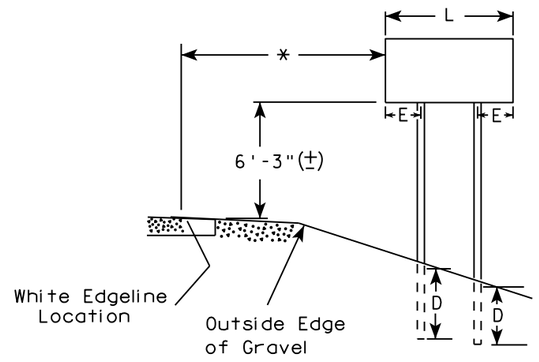
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

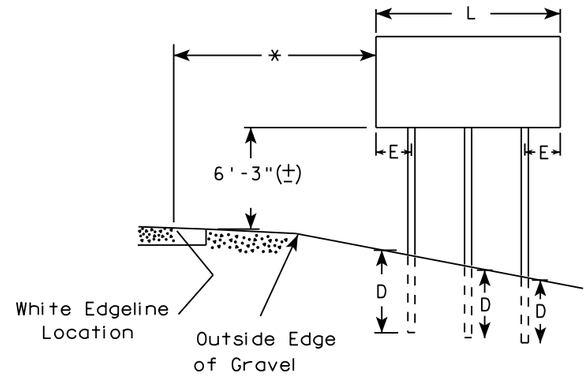
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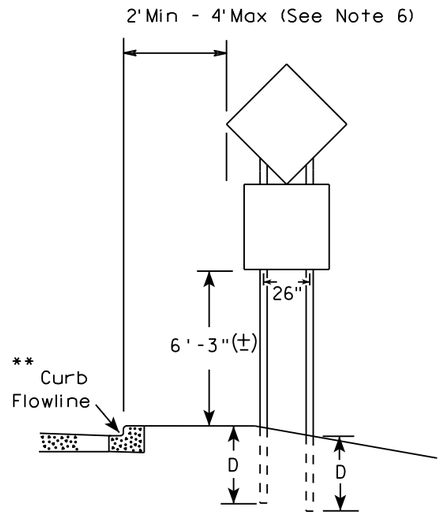
URBAN AREA



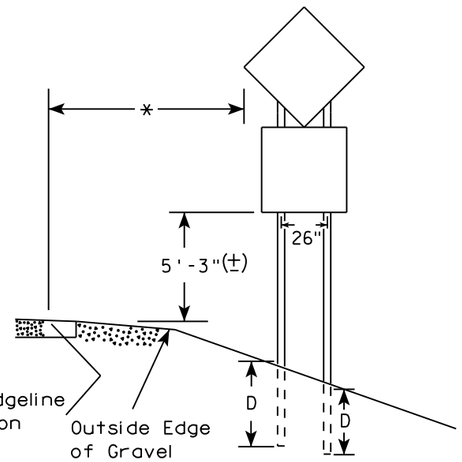
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

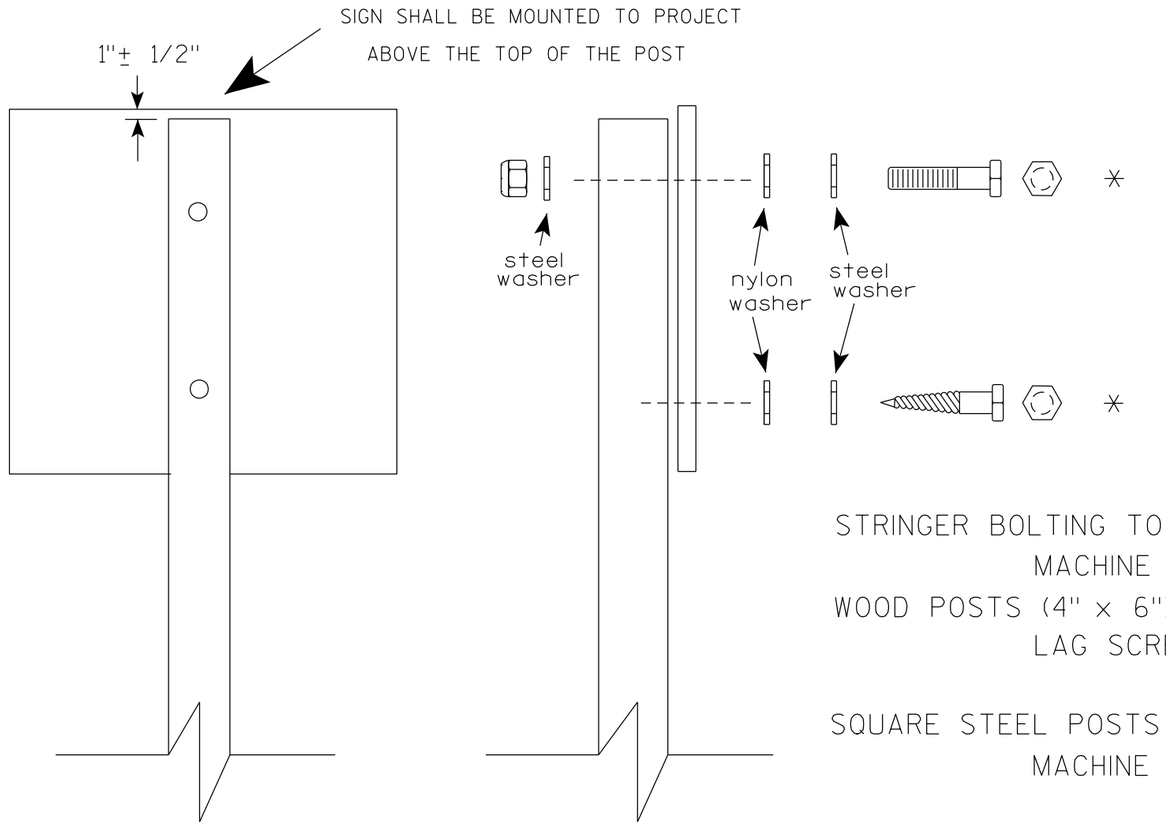
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 211	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

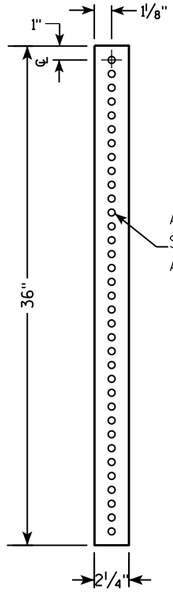
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

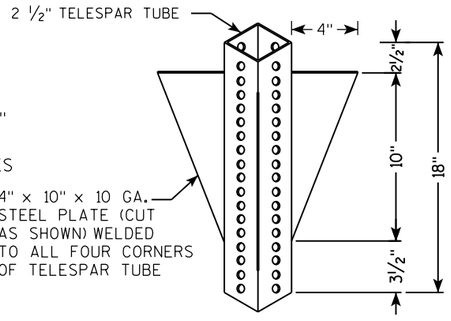
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

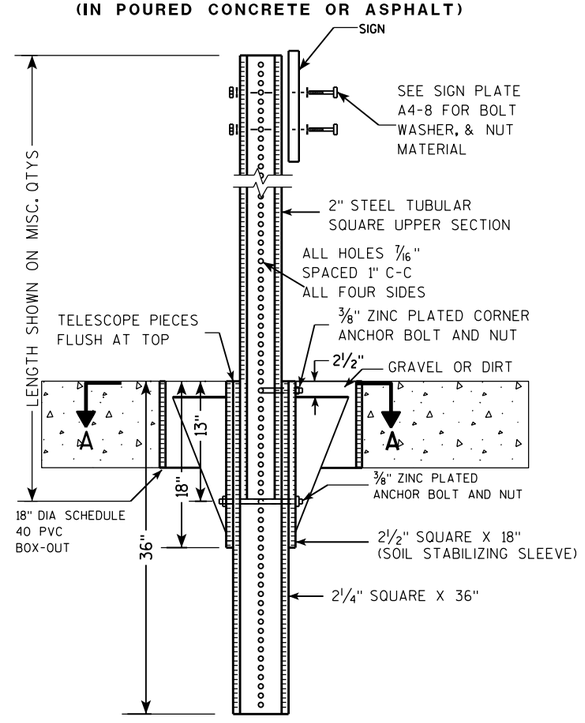
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



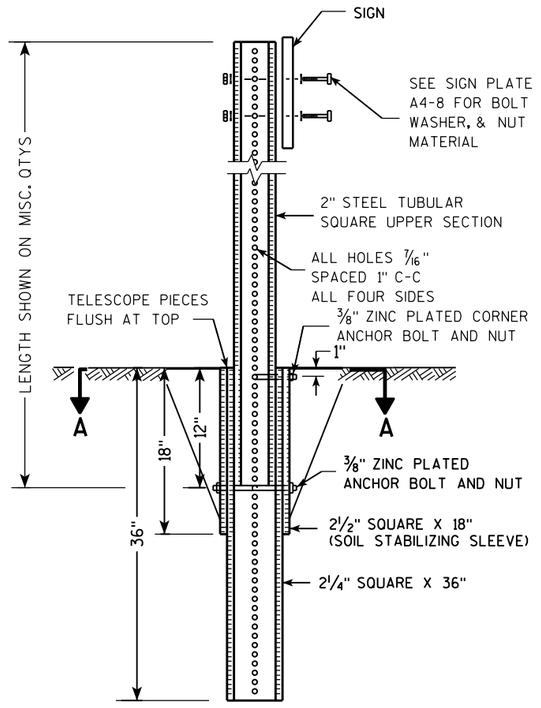
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

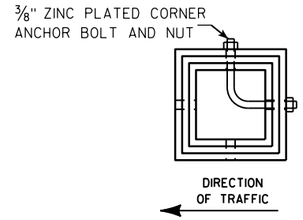


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

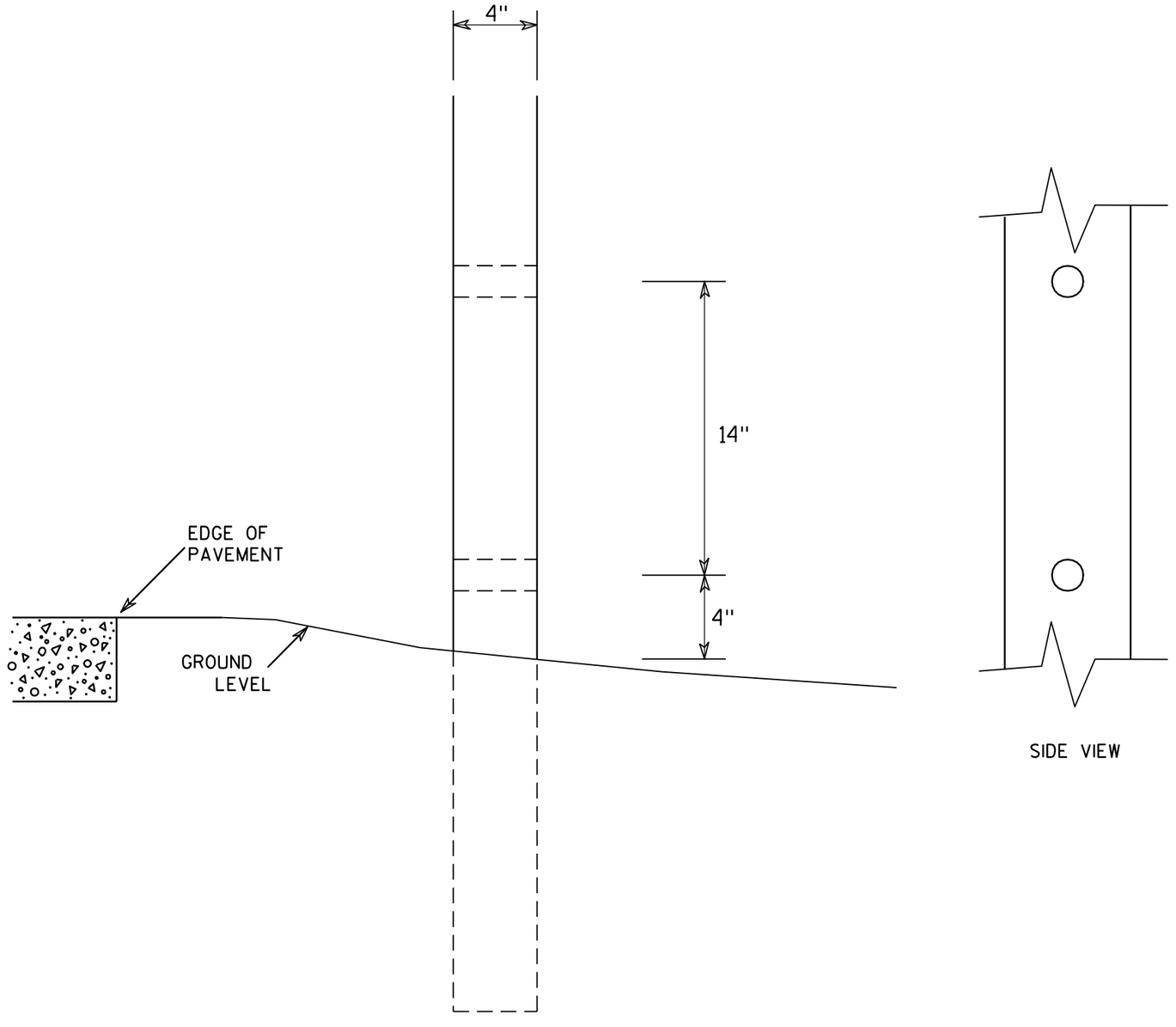
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 213 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

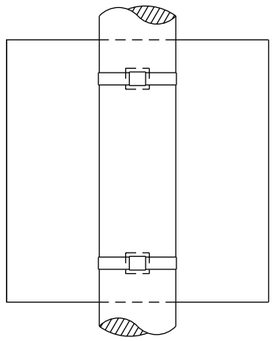
APPROVED Chester J Spang for State Traffic Engineer

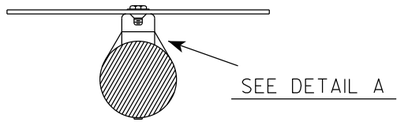
DATE 3/27/97 PLATE NO. A4-11.2

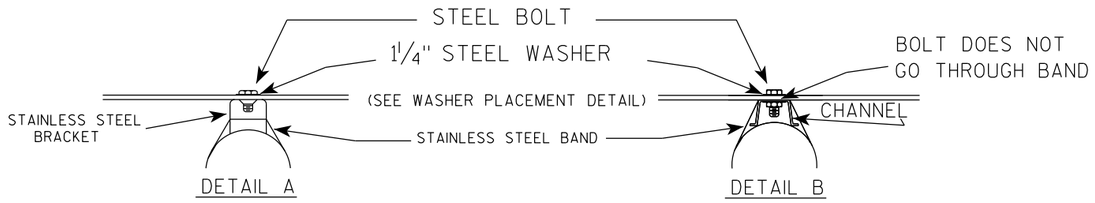
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 214	E

BANDING

SINGLE SIGN



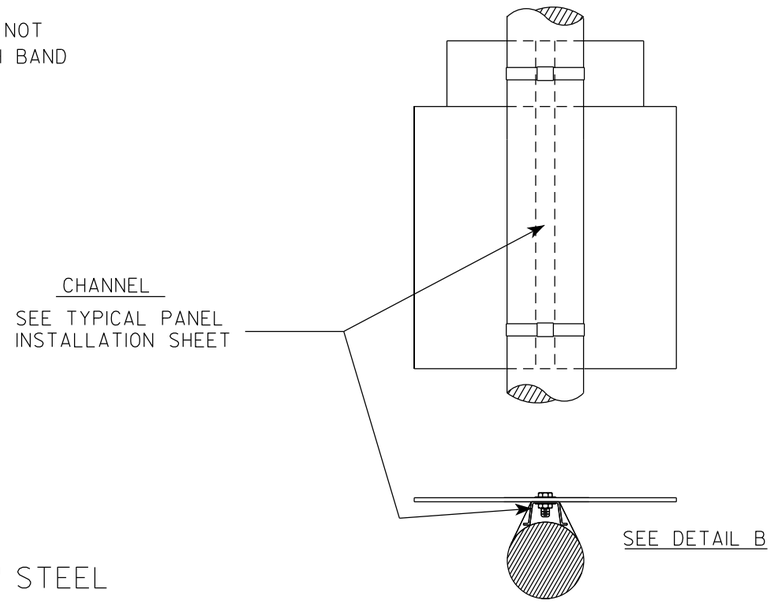




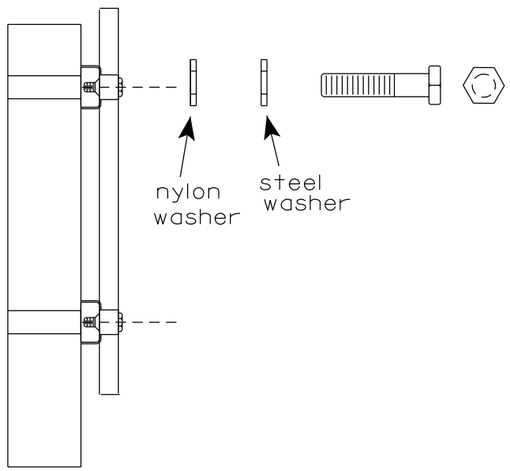
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

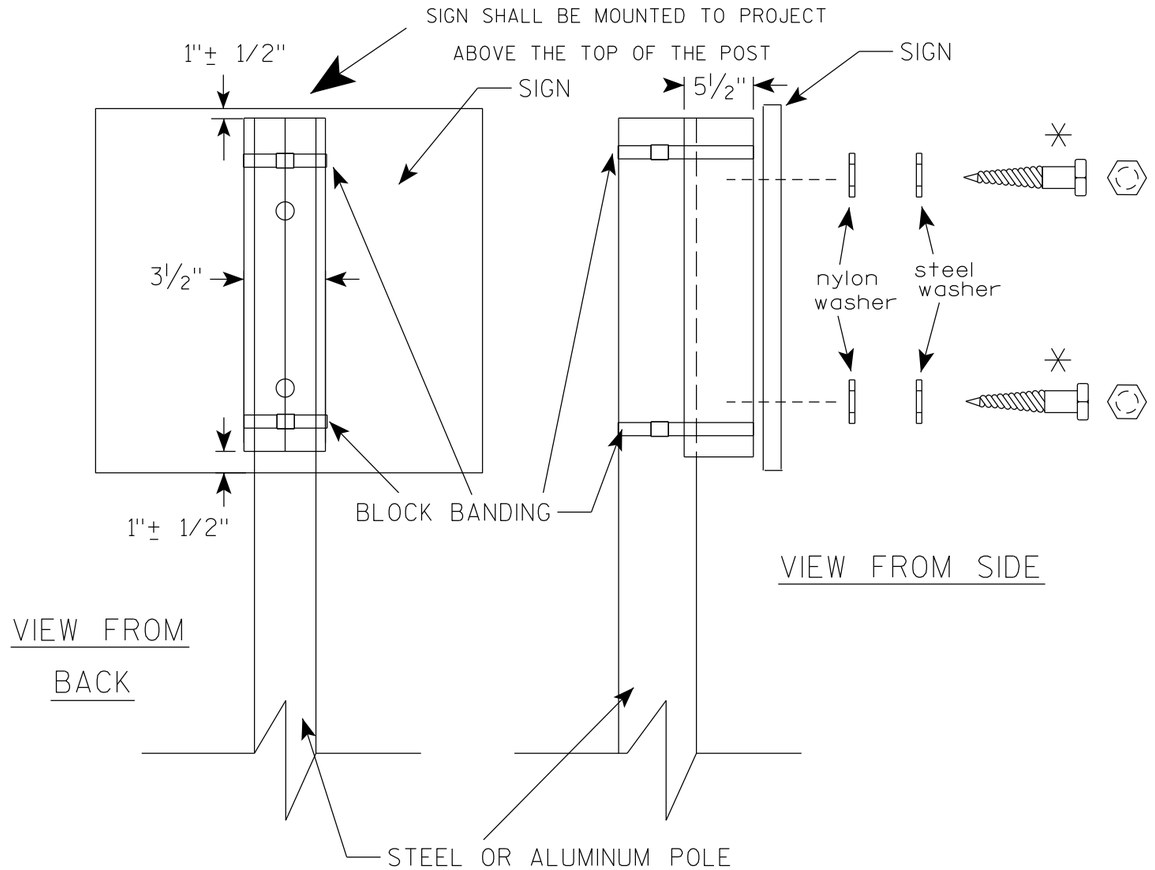
STANDARD SIGN
SIGN BANDING DETAILS

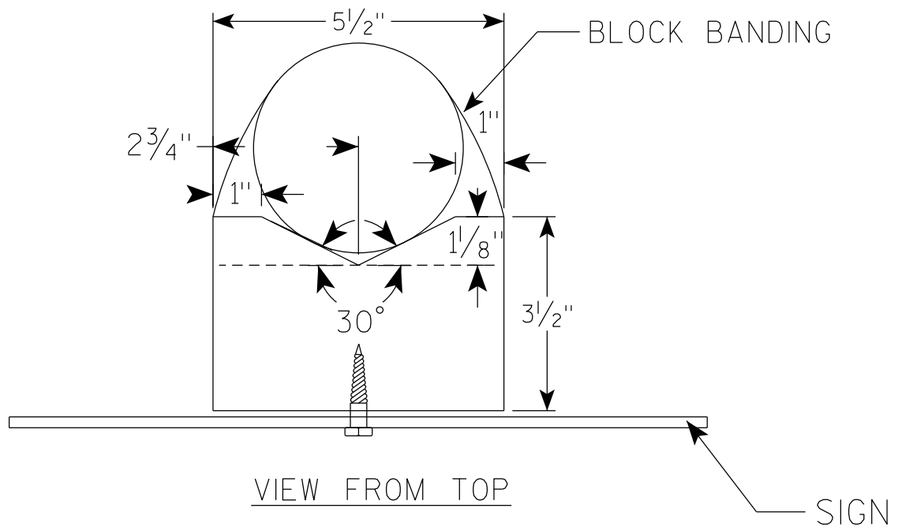
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-9.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 215	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

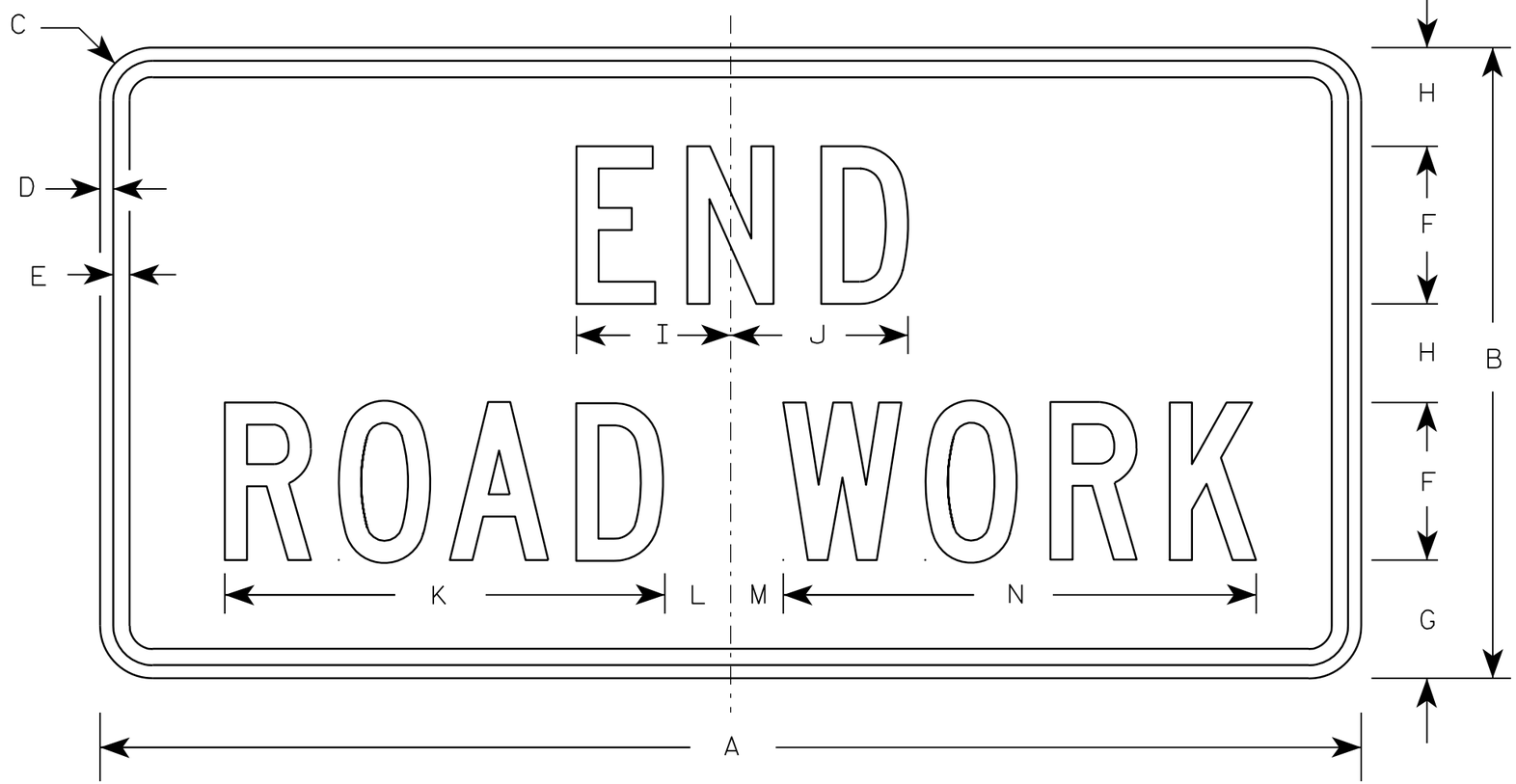
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO: | SHEET NO: 216 | E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

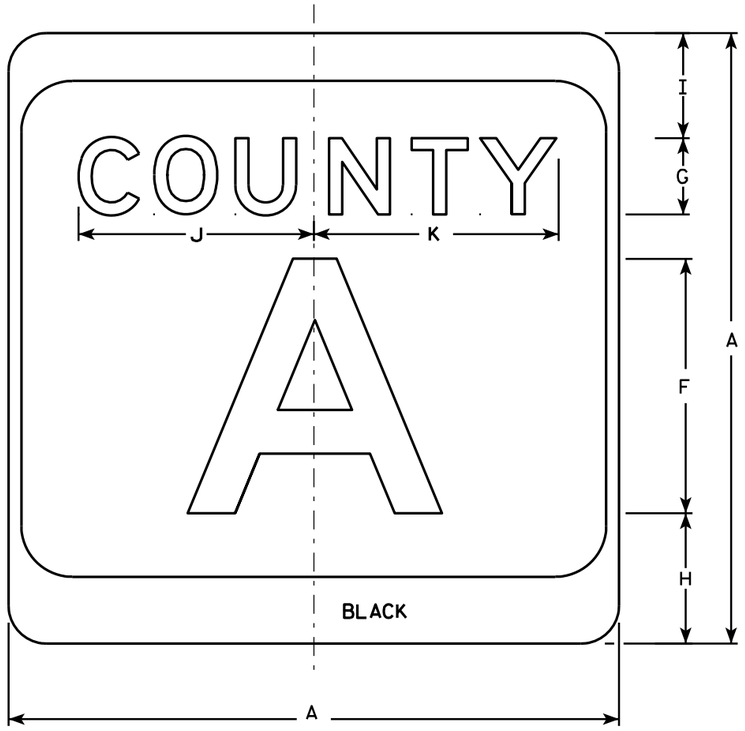
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

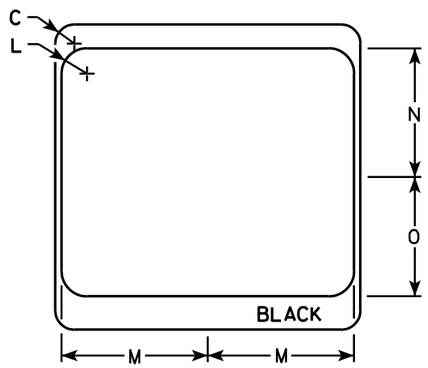
APPROVED Matthew R Rauch
for State Traffic Engineer

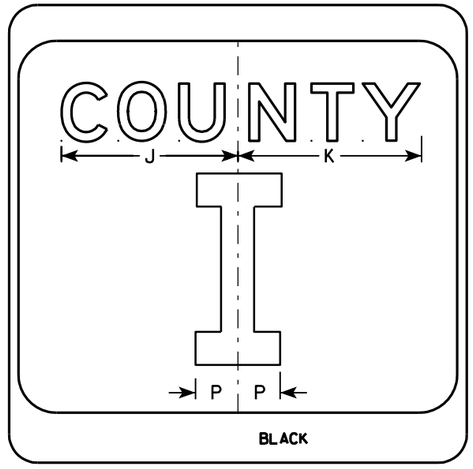
DATE 9/30/09 PLATE NO. G20-2A.8

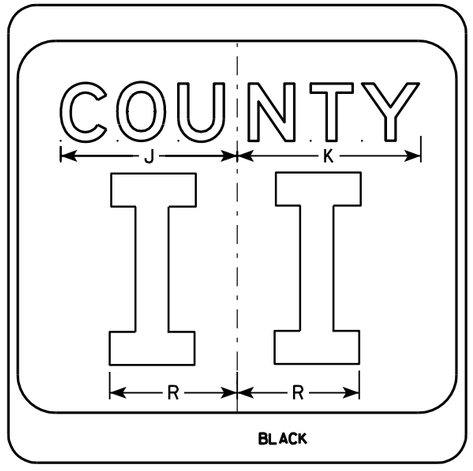
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 217	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

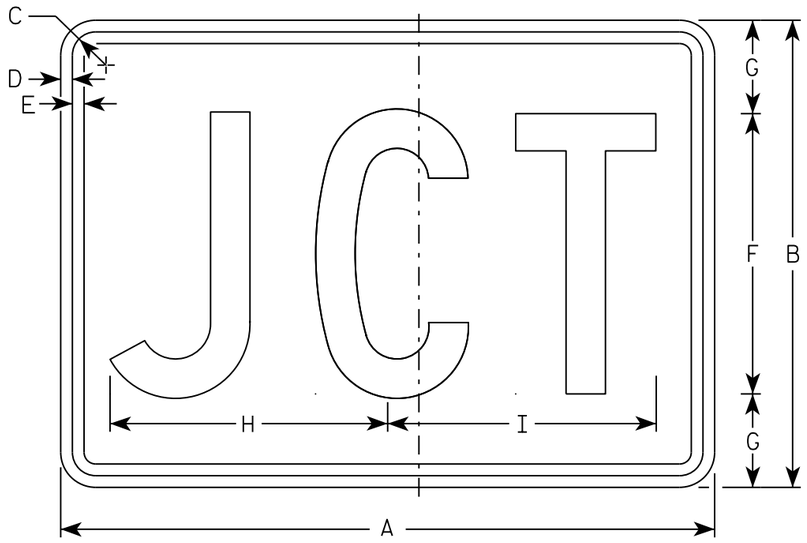
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

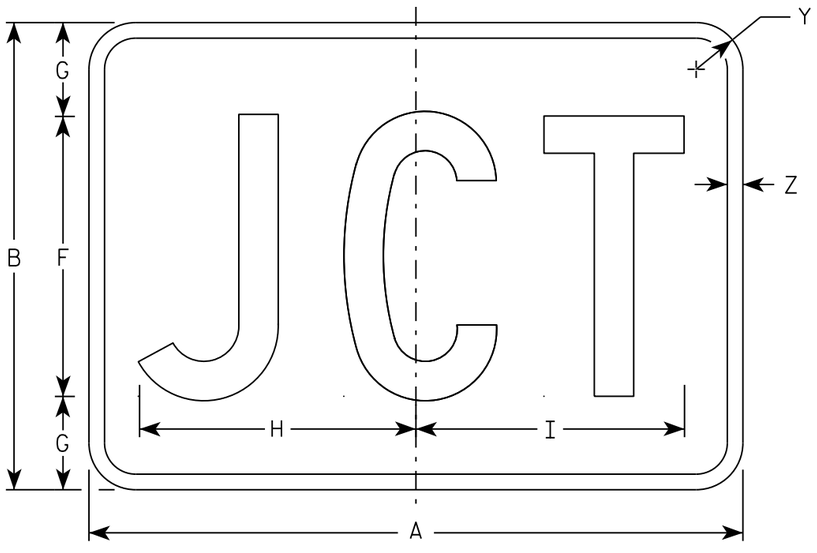
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 218 | E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

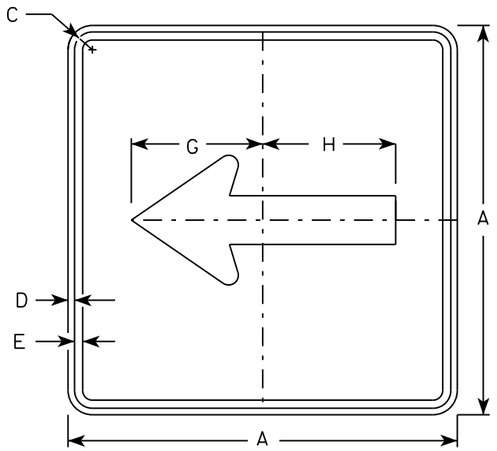
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

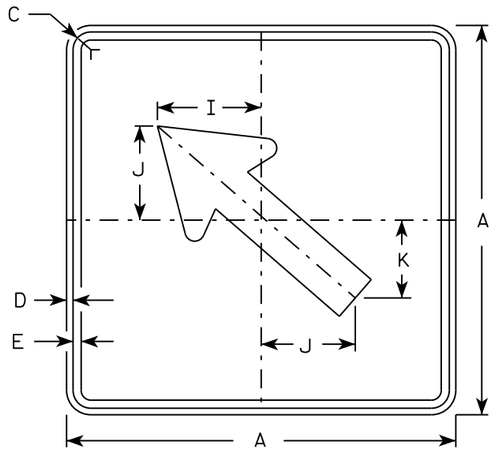
DATE 10/15/15 PLATE 219 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



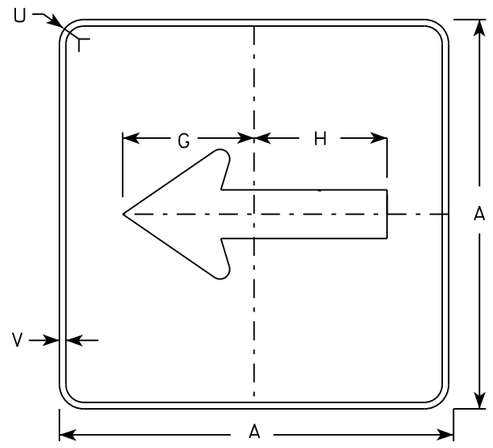
M6-1
MM6-1
MO6-1
MP6-1



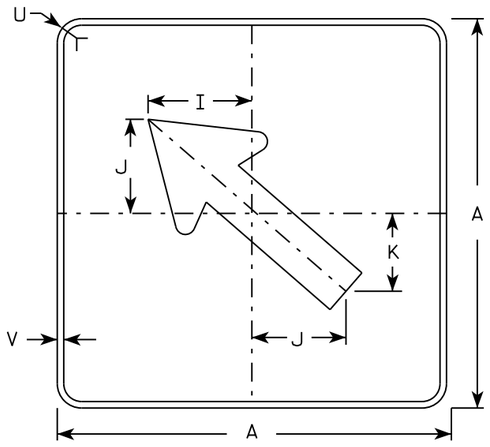
M6-2
MM6-2
MO6-2
MP6-2

NOTES

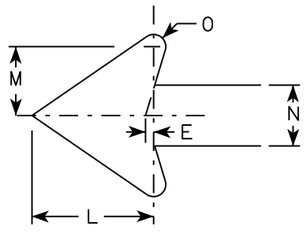
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

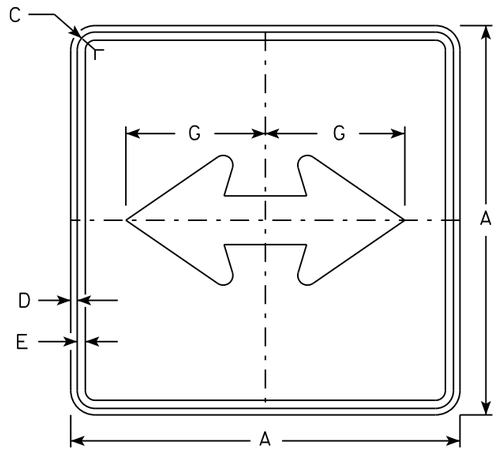
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

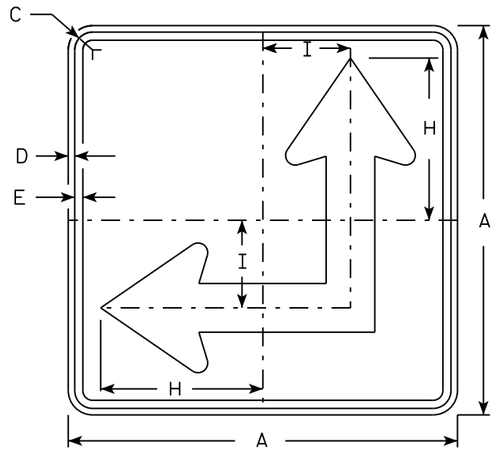
DATE 10/15/15 PLATI 220 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



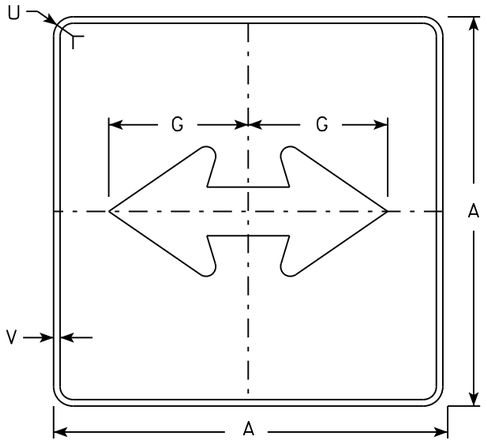
M6-4
MM6-4
MO6-4
MP6-4



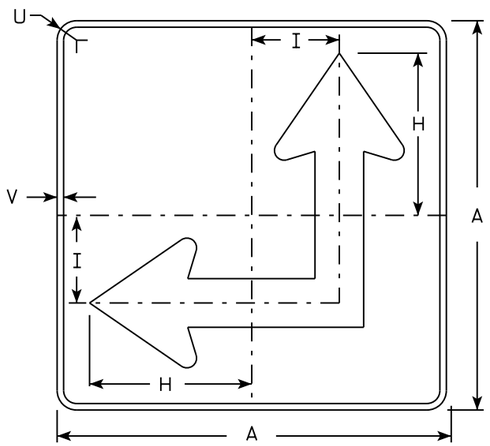
M6-6
MM6-6
MO6-6
MP6-6

NOTES

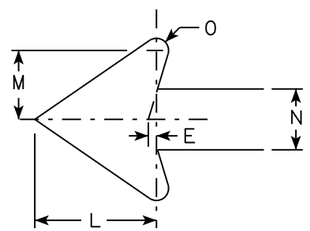
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

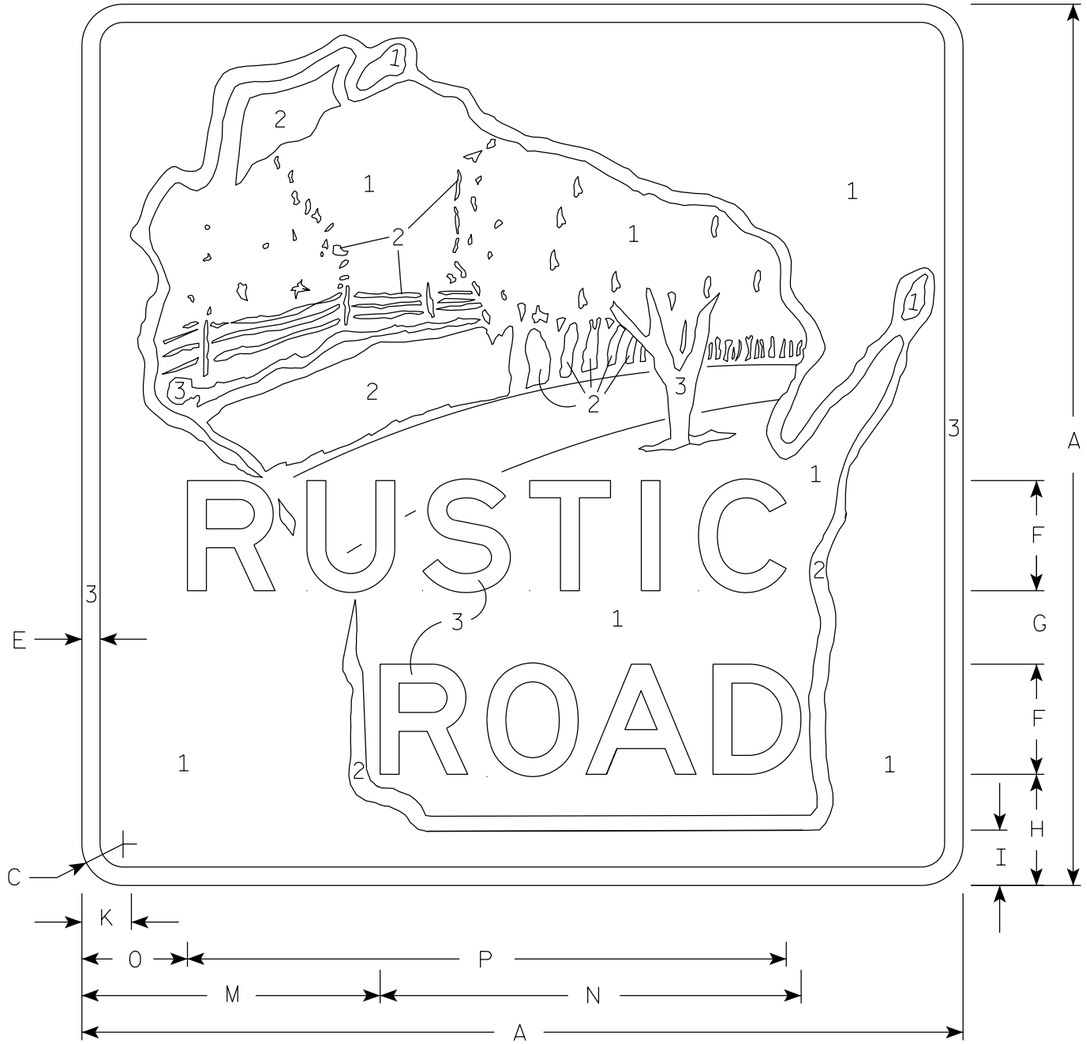
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 221 M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 4
   Message - See note 4
3. Message Series - Modified E
4. The sign will be color coded by numerical designation Numeral *1 Brown
   2 White
   3 Yellow

   Exact color descriptions will be furnished upon request.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/8		1/2	3	2	3	1 1/2		1 3/8		8 1/8	11 1/4	2 7/8	16 1/4											4.0
3	36		1 5/8		3/4	4 1/2	3	4 1/2	2 1/4		2		12 1/8	17 1/4	4 3/8	24 1/2											9.0
4	36		1 5/8		3/4	4 1/2	3	4 1/2	2 1/4		2		12 1/8	17 1/4	4 3/8	24 1/2											9.0
5																											

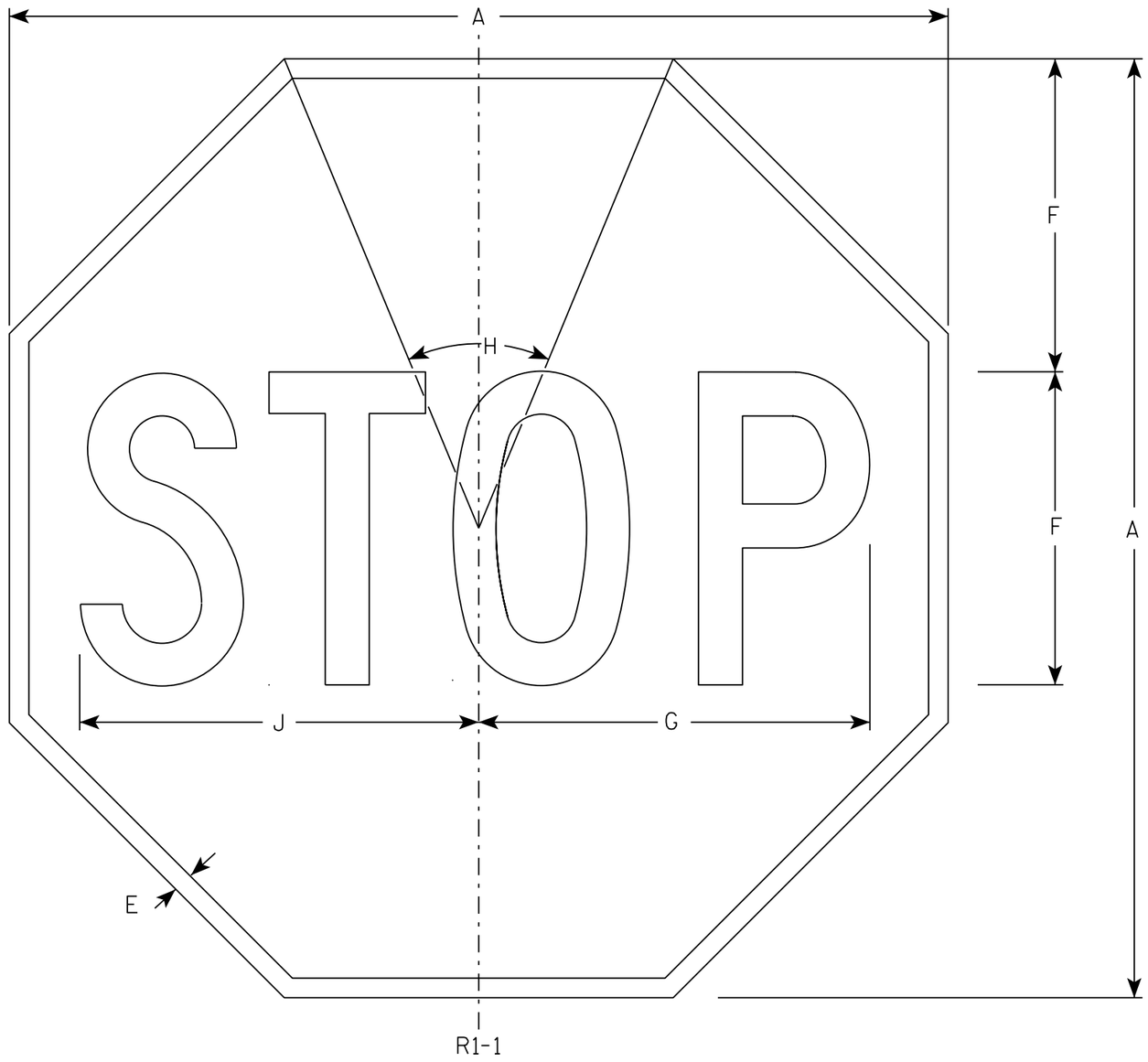
STANDARD SIGN
MR1-99

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/8/2020 PLATE NO. MR1-99.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 222	E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

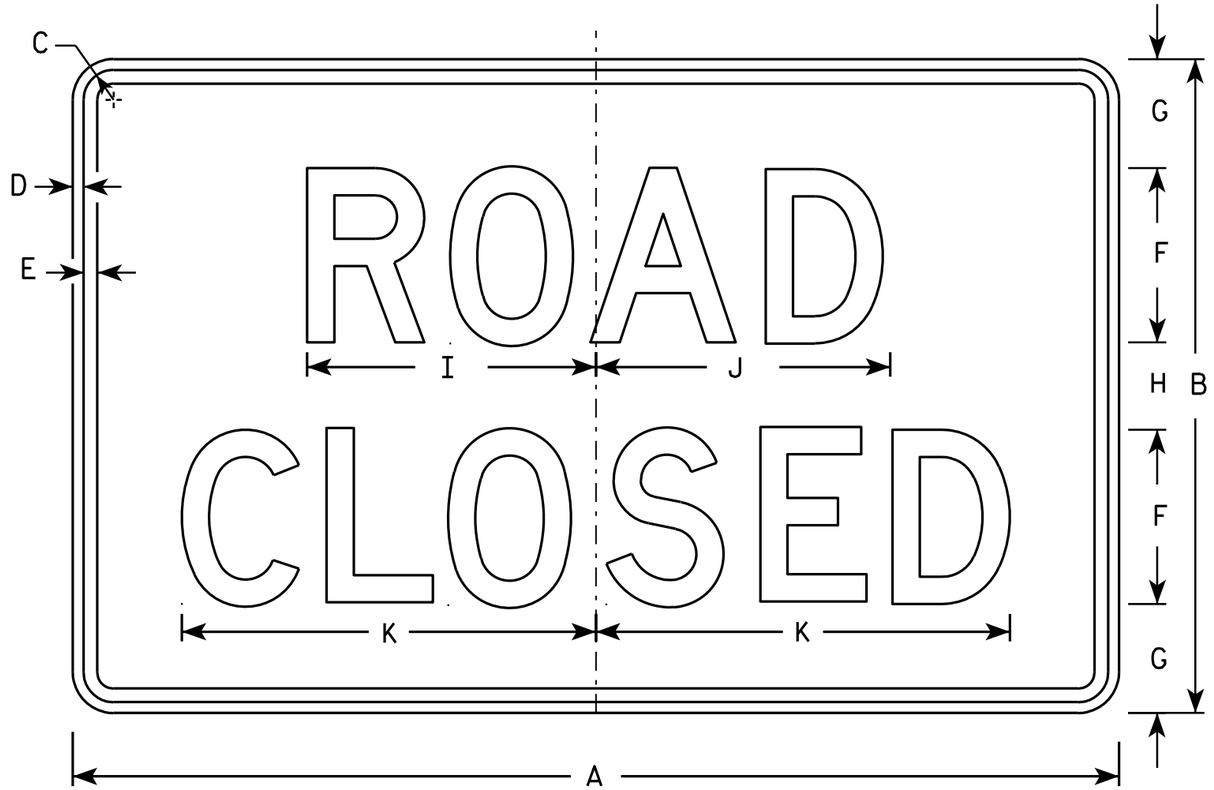
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

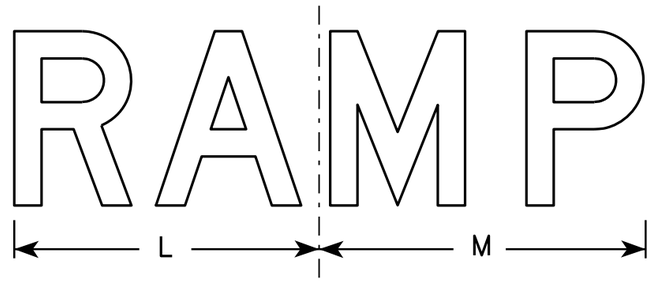
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 223	E



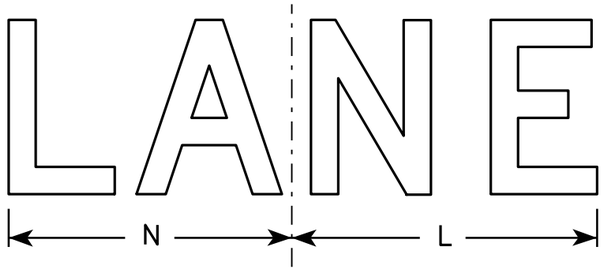
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

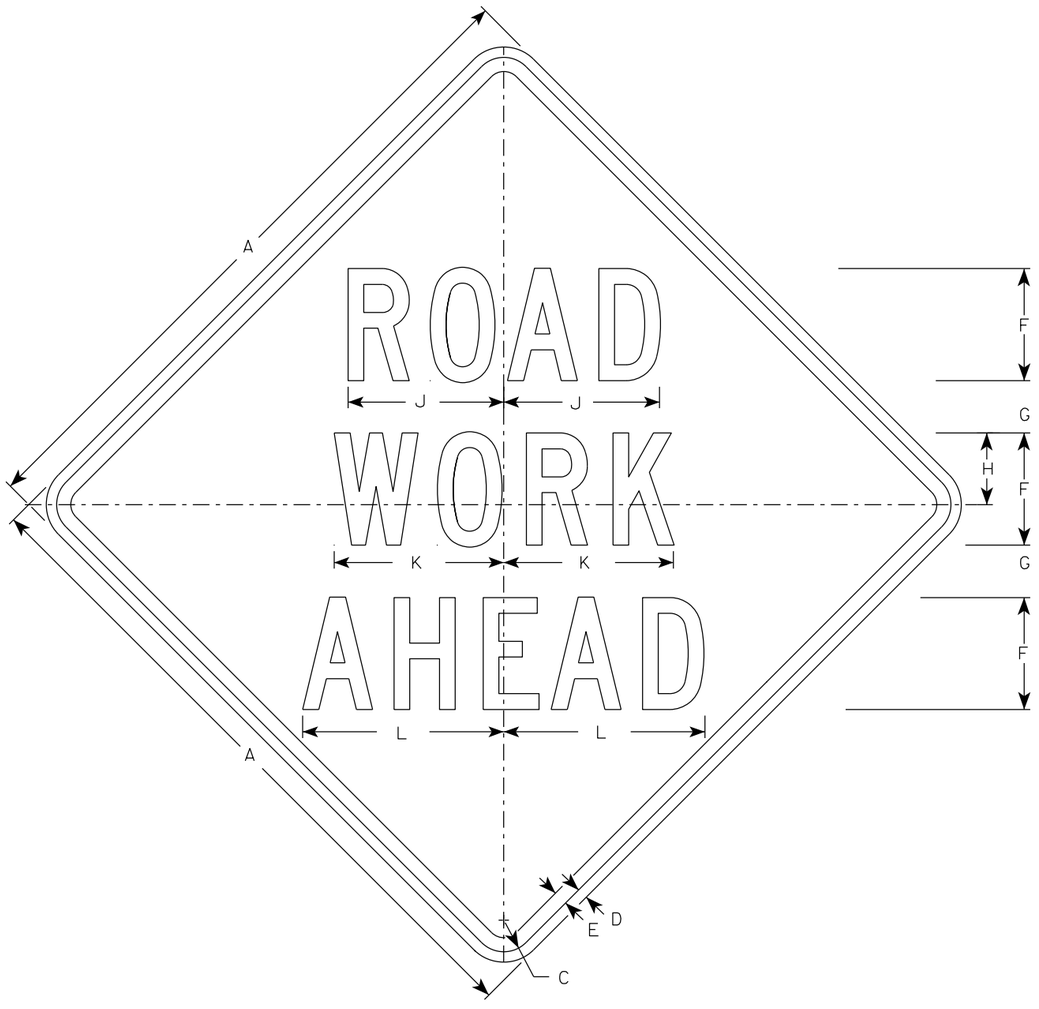
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

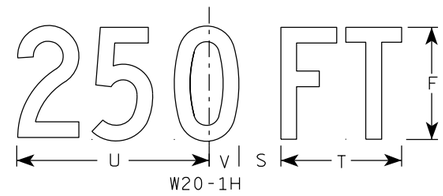
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

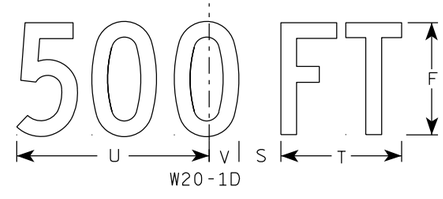
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 224	E



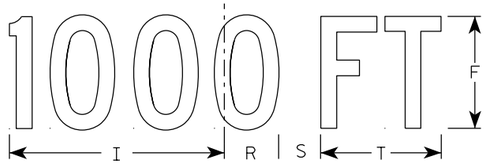
W20-1A



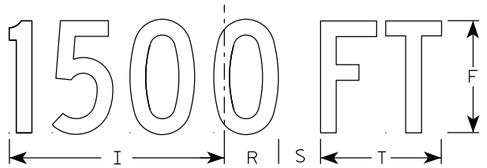
W20-1H



W20-1D



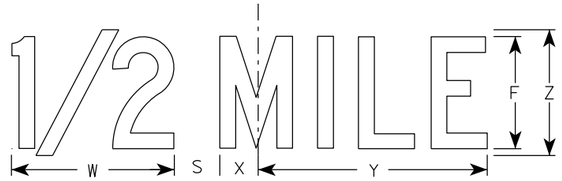
W20-1C



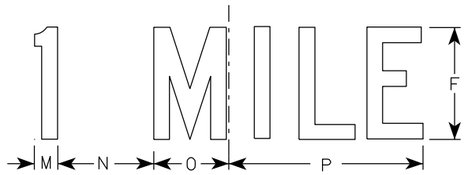
W20-1B

NOTES

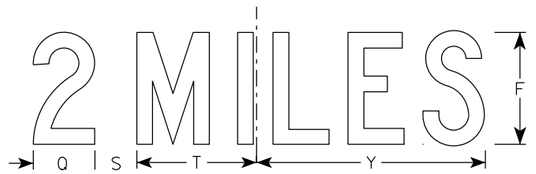
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

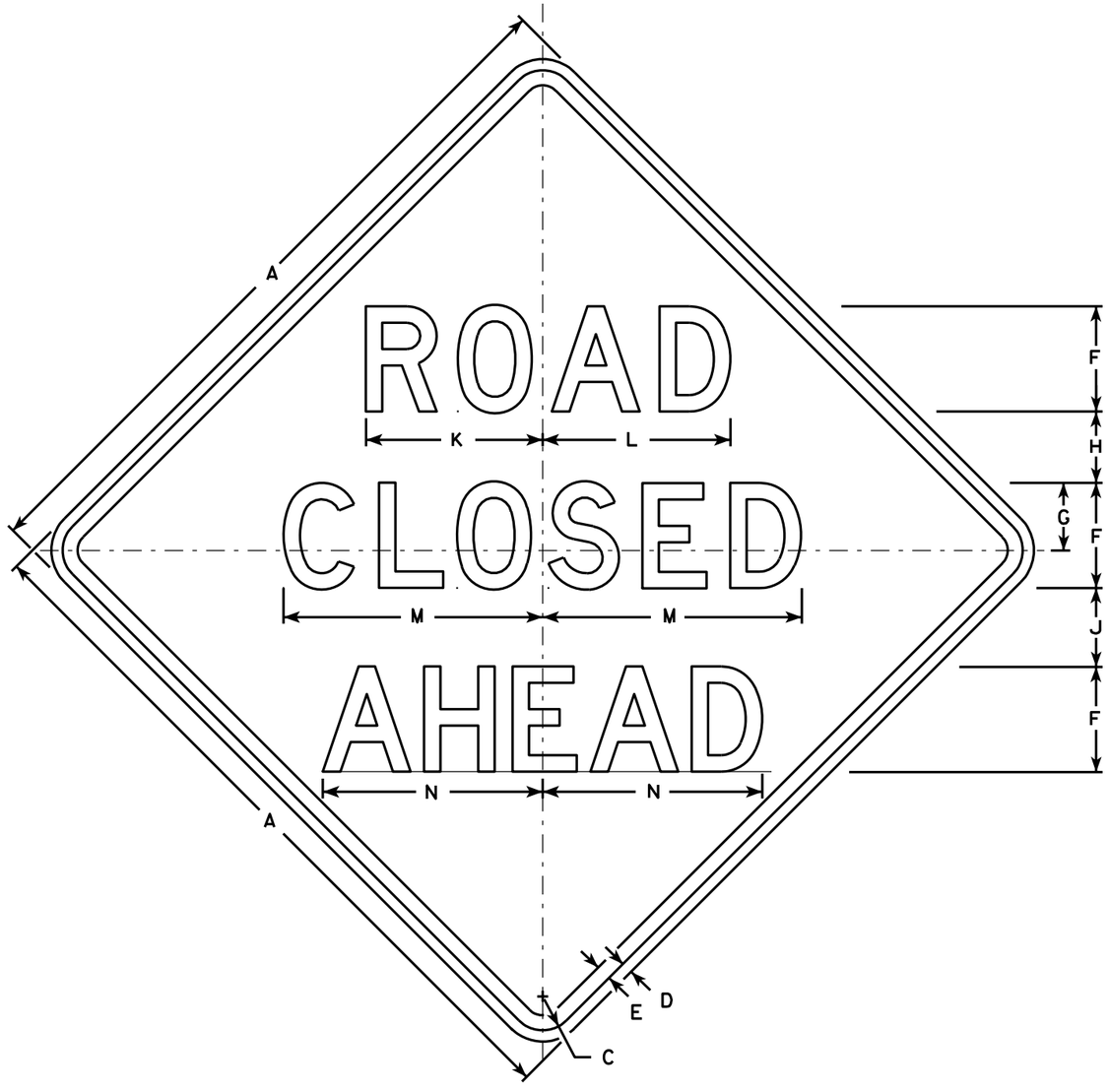
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

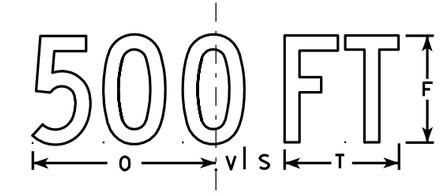
WISDOT/CADDS SHEET 42

7

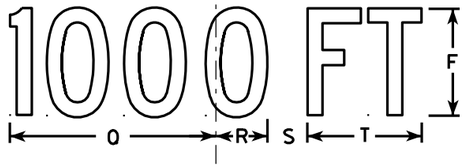
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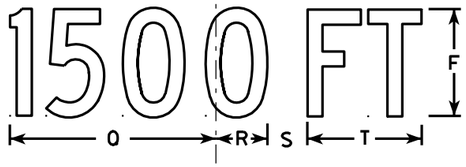
W20-3A



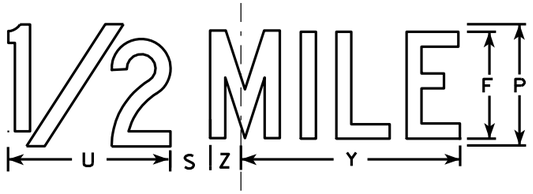
W20-3D



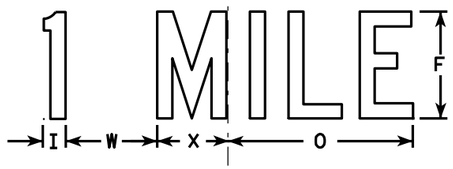
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 226 | E

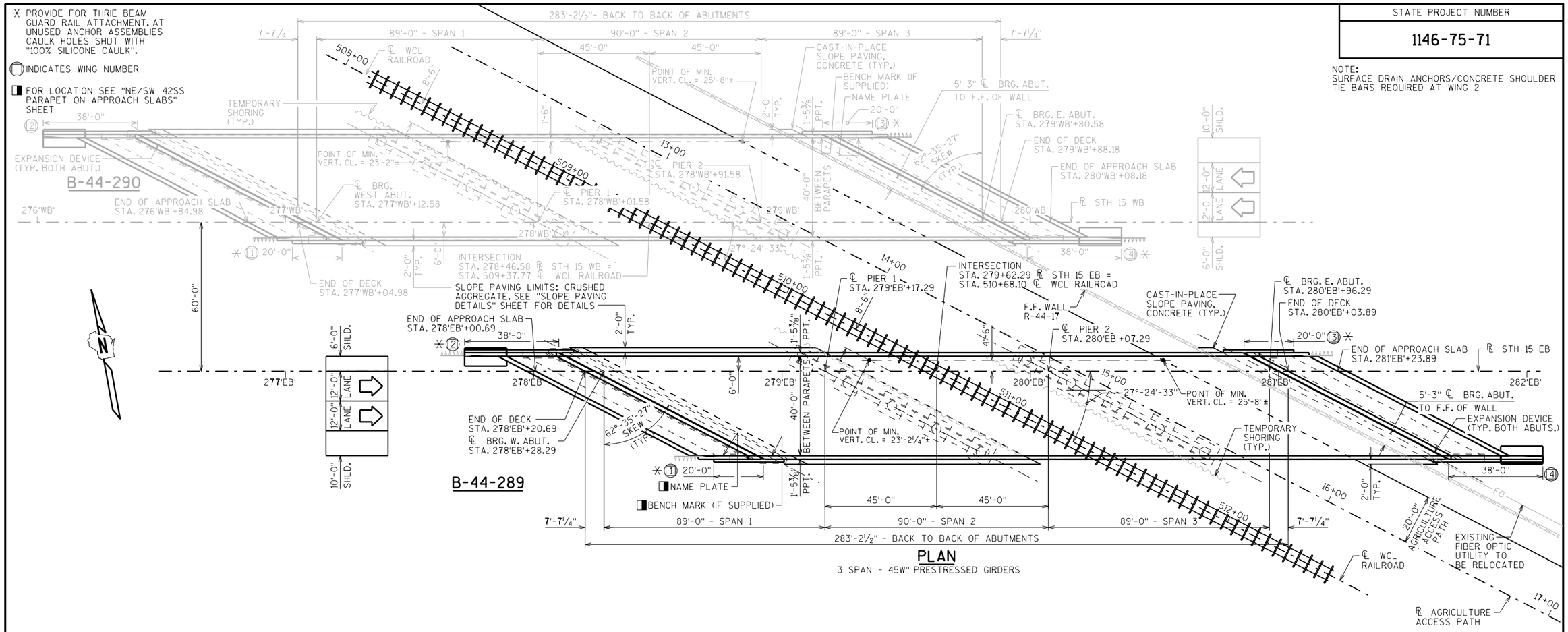
STATE PROJECT NUMBER
1146-75-71

NOTE:
SURFACE DRAIN ANCHORS/CONCRETE SHOULDER TIE BARS REQUIRED AT WING 2

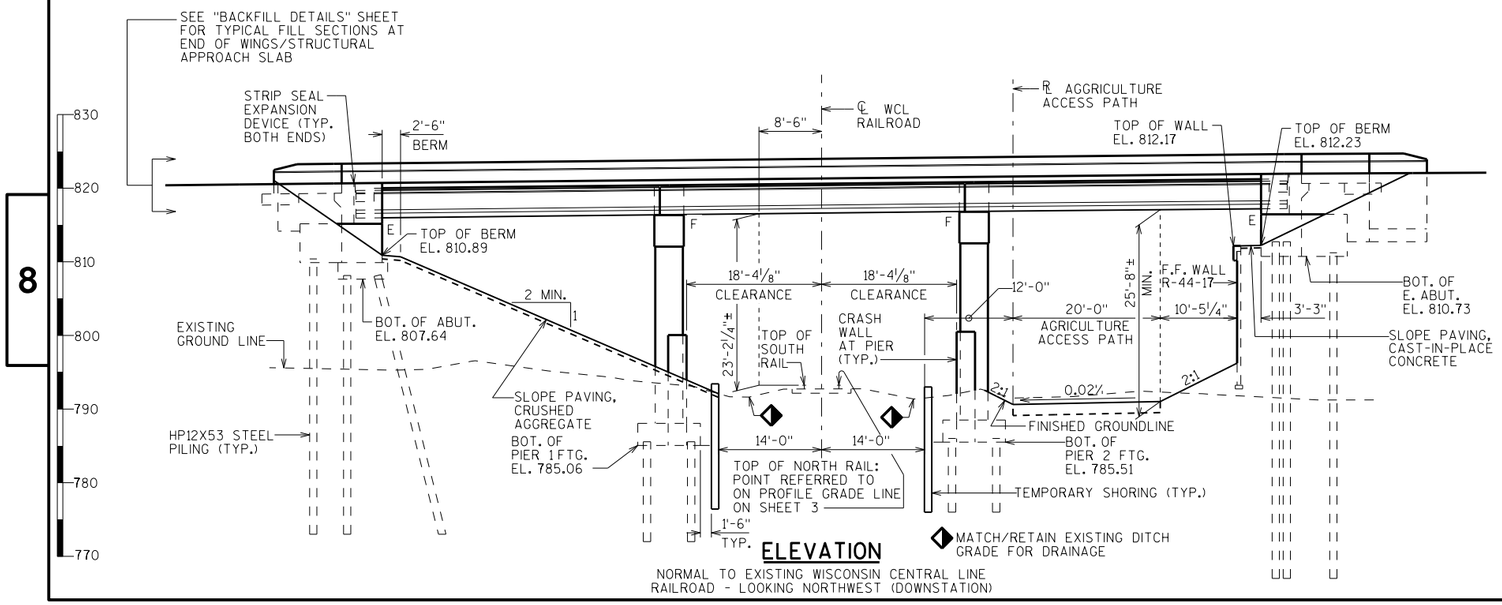
* PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT. AT UNUSED ANCHOR ASSEMBLIES CAULK HOLES SHUT WITH "100% SILICONE CAULK".

(2) INDICATES WING NUMBER

FOR LOCATION SEE "NE/SW 42SS PARAPET ON APPROACH SLABS" SHEET



PLAN
3 SPAN - 45W" PRESTRESSED GIRDERS



ELEVATION
NORMAL TO EXISTING WISCONSIN CENTRAL LINE RAILROAD - LOOKING NORTHWEST (DOWNSTATION)

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION
3. QUANTITIES & GENERAL NOTES
4. BACKFILL DETAILS
5. SUBSURFACE EXPLORATION
6. WEST ABUTMENT
7. WEST ABUTMENT DETAILS 1
8. WEST ABUTMENT DETAILS 2
9. WEST ABUTMENT DETAILS 3
10. EAST ABUTMENT
11. EAST ABUTMENT DETAILS 1
12. EAST ABUTMENT DETAILS 2
13. EAST ABUTMENT DETAILS 3
14. PIER 1
15. PIER 2
16. PIER DETAILS 1
17. PIER DETAILS 2
18. ABUTMENT BEARING DETAILS
19. 45W" PRESTRESSED GIRDER DETAILS 1
20. 45W" PRESTRESSED GIRDER DETAILS 2
21. STEEL DIAPHRAGM
22. SUPERSTRUCTURE PLAN
23. SUPERSTRUCTURE CROSS SECTION
24. SUPERSTRUCTURE DETAILS
25. SUPERSTRUCTURE BAR DETAILS
26. STRUCTURAL APPROACH SLAB
27. STRUCTURAL APPROACH SLAB DETAILS
28. EXPANSION DEVICE
29. COVER PLATE DETAILS 1
30. COVER PLATE DETAILS 2
31. 42SS PARAPET ON RETAINING WALLS
32. NW/SE 42SS PARAPET ON APPROACH SLABS
33. NE/SW 42SS PARAPET ON APPROACH SLABS
34. SLOPE PAVING (CRUSHED AGGREGATE)
35. ALTERNATE CONSTRUCTION JOINT

STRUCTURE DESIGN CONTACTS:
EMILY KUEHNE (608) 266-5089
DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES
ACCEPTED DMB 01/07/21
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-44-289

STH 15 EB OVER WCL RAILROAD

COUNTY	TOWN
OUTAGAMIE	HORTONIA

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
NAR	MS	NAR	EMK

GENERAL PLAN

SHEET 1 OF 35

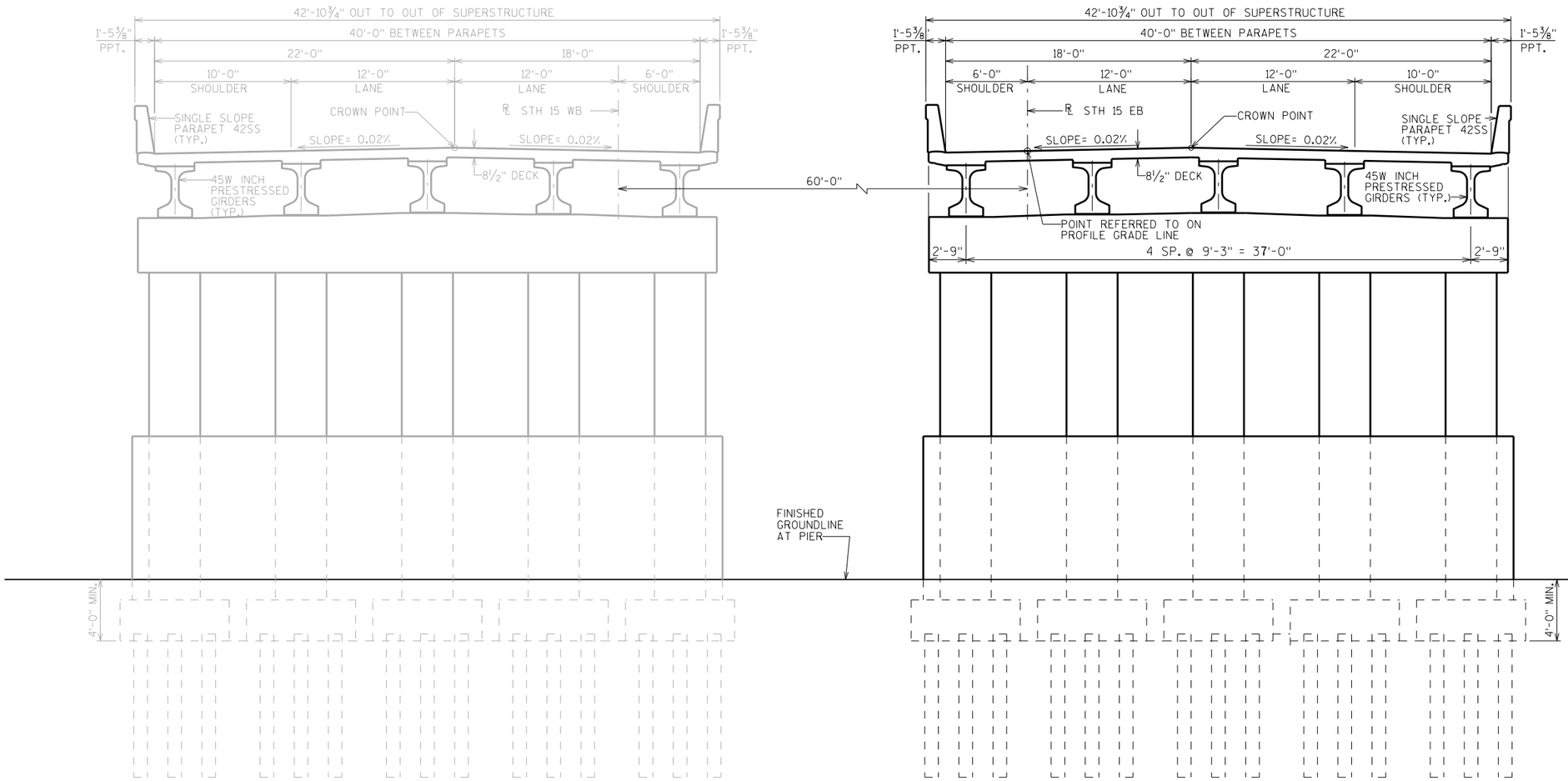
227

I.D. 1146-75-001 DATE: JAN 2021

SCALE = 20.00

STATE PROJECT NUMBER

1146-75-71



B-44-290 (S.T.H. 15 WESTBOUND LANES)

B-44-289 (S.T.H. 15 EASTBOUND LANES)

CROSS SECTION THRU ROADWAY LOOKING EAST (UPSTATION)

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

CROSS SECTION

SHEET 2

228

SCALE = 4.50

STATE PROJECT NUMBER

1146-75-71

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.01
OPERATING RATING FACTOR: RF = 1.31
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 190(KIPS)

STRUCTURE IS DESIGN FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
SUPERSTRUCTURE & APPROACH SLAB ——— f'c = 4,000 P.S.I.
SUBSTRUCTURE ——— f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
GRADE 60 ——— fy = 60,000 P.S.I.
STAINLESS, GRADE 60 ——— fy = 60,000 P.S.I.

45W" PRESTRESSED GIRDERS:
CONCRETE MASONRY ——— f'c = 8,000 P.S.I.
STRANDS: 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

FOUNDATION DATA

WEST ABUTMENT TO BE SUPPORTED ON HP12X53 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 200 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 40'-0" LONG.

EAST ABUTMENT & PIERS TO BE SUPPORTED ON HP12X53 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 220 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 50'-0" LONG AT THE EAST ABUTMENT
ESTIMATED 15'-0" LONG AT PIER 1
ESTIMATED 10'-0" LONG AT PIER 2
PREBORING ESTIMATED TO BE 10'-0" AT EACH PILE AT BOTH PIERS 1 AND 2.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

STH 15 EB

ADT = 15,000 (2040)
R.D.S. = 60 M.P.H.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾"UNLESS OTHERWISE NOTED.

THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL. ALSO EXCLUDED IS THE "BASE AGGREGATE DENSE 1 1/4-INCH" AS DETAILED ON THE STRUCTURAL APPROACH SLAB SHEETS.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND APPROACH SLAB SURFACES AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

PIGMENTED PROTECTIVE SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON APPROACH SLABS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE 45W" PRESTRESSED GIRDER DETAILS 2" SHEET.

AT ABUTMENTS AND PIER(S), CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

RAILROAD REQUIREMENTS DO NOT ALLOW WORK WITHIN 50 FEET OF TRACK CENTERLINE WHEN A TRAIN PASSES THE WORK SITE AND ALL PERSONNEL MUST CLEAR THE AREA WITHIN 25 FEET OF THE TRACK CENTERLINE AND SECURE ALL EQUIPMENT.

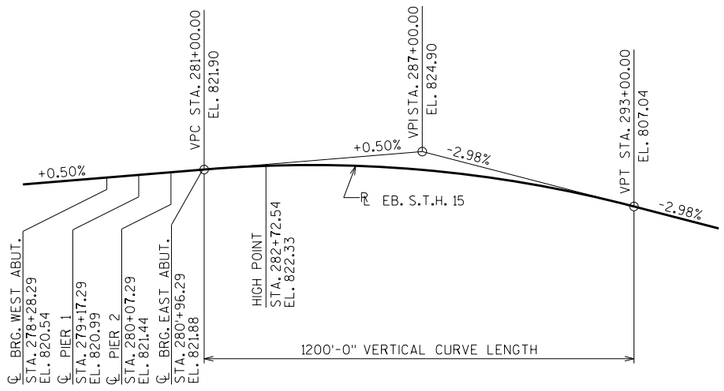
FINAL LOCATION & TYPE OF SHORING SYSTEM TO BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT ALL DESIGN DRAWINGS AND CALCULATIONS DIRECTLY TO THE RAILROAD.

AT PIERS 1 & 2, PRE-BORE TO A DEPTH OF 10 FEET BELOW THE BOTTOM OF SUBGRADE. IF THE MATERIAL ENCOUNTERED AT THE BOTTOM OF THE PREDRILLED HOLE APPEARS TO CONSIST OF SOIL (OR A HIGHLY WEATHERED MATERIAL), THE PILES SHOULD BE DRIVEN TO THE REQUIRED DRIVING RESISTANCE. THE ANNULAR SPACE SHOULD BE SUBSEQUENTLY FILLED WITH CONCRETE. THE ENGINEER SHALL CONSULT WITH THE REGION GEOTECHNICAL ENGINEER TO MAKE A DETERMINATION OF THE MATERIAL CLASSIFICATION AT THE BOTTOM OF THE PREDRILLED HOLE.

GENERAL NOTES (CONT.)

EXCAVATIONS FOR PIER FOOTINGS MAY ENCOUNTER POCKETS OF PERCHED WATER AND MAY EXTEND BELOW THE GROUNDWATER TABLE BY UP TO TWO OR THREE FEET. WHERE FINE-GRAINED MATERIALS ARE ENCOUNTERED, IT IS ANTICIPATED THAT GROUNDWATER INFLOWS WILL BE ABLE TO BE CONTROLLED USING TYPICAL SUMP PIT AND PUMP METHODS. BORING B-320 DRILLED FOR B-44-290 ALONG PIER 1 ENCOUNTERED RELATIVELY CLEAN, POORLY-GRADED SAND NEAR THE PIER FOOTING SUBGRADE ELEVATION. EXCAVATION BELOW THE GROUNDWATER TABLE IN THIS MATERIAL WILL BE MORE CHALLENGING AND MAY REQUIRE SHEETING OR OTHER MORE ELABORATE DEWATERING METHODS TO PROVIDE GROUNDWATER CUT-OFF FOR CONSTRUCTION OF THE PIER FOOTING.

THE BID ITEM "COFFERDAMS B-44-289" IS INCLUDED IN THE CONTRACT TO PAY FOR ANY REQUIRED SHEETING OR OTHER DEWATERING METHODS NEEDED, AS NECESSARY.



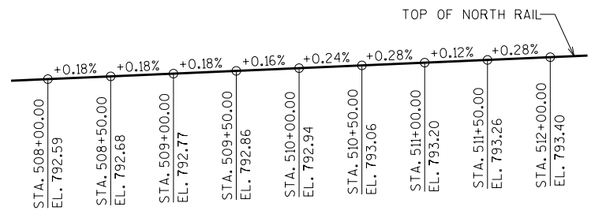
PROFILE GRADE LINE FOR STH 15 EB



PROFILE GRADE LINE FOR AGRICULTURE ACCESS PATH

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	WEST APPROACH	WEST ABUT.	PIER 1	PIER 2	EAST ABUT.	EAST APPROACH	TOTALS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-44-289	LS	———	———	———	———	———	———	———	1
206.5000	COFFERDAMS B-44-289	LS	———	———	———	———	———	———	———	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	———	———	800	———	———	45	———	845
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	———	130	———	———	———	———	130	260
502.0100	CONCRETE MASONRY BRIDGES	CY	525	72	239	244	244	197	72	1593
502.3101	EXPANSION DEVICE	LF	174	———	———	———	———	———	———	174
502.3200	PROTECTIVE SURFACE TREATMENT	SY	1310	90		———	———		90	1490
502.3210	PIGMENTED SURFACE SEALER	SY	280	20	10	———	———	10	20	340
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF	1347	———	———	———	———	———	———	1347
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	———	———	10515	29040	29040	9220	———	77815
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	101310	12870	8630	———	———	9340	12870	145020
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	———	———	1185	———	———	1185	———	2370
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	20	———	———	———	———	———	———	20
506.2610	BEARING PADS ELASTOMERIC LAMINATED	EACH	10	———	———	———	———	———	———	10
506.4000	STEEL DIAPHRAGMS B-44-289	EACH	24	———	———	———	———	———	———	24
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	———	———	29	———	———	29	———	58
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	———	———	———	300	300	———	———	600
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF	———	———	1120	450	300	750	———	2620
604.0400	SLOPE PAVING CONCRETE	SY	———	———	———	———	———	32	———	32
604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY	———	———	580	———	———	———	———	580
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	———	———	150	———	———	40	———	190
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	———	1	1	———	———	1	———	3
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	———	———	85	———	———	———	———	85
SPV.0165	TEMPORARY SHORING RAILROAD	SF	———	———	———	880	880	———	———	1760
	NON-BID ITEMS									
	FILLER	SIZE	———	———	———	———	———	———	———	½", ¾", 1", 1½"
	BRIDGE SEAT PROTECTION	LS	———	———	———	———	———	———	———	1



WISCONSIN CENTRAL LINE RAILROAD

PROFILE GRADE LINE FOR EXISTING RAILROAD

(FOR INFORMATIONAL PURPOSES ONLY)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

QUANTITIES & GENERAL NOTES

SHEET 3

229

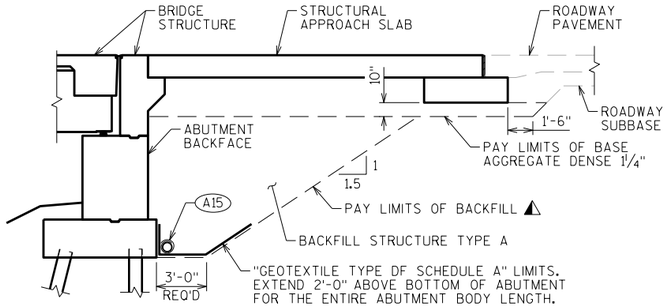
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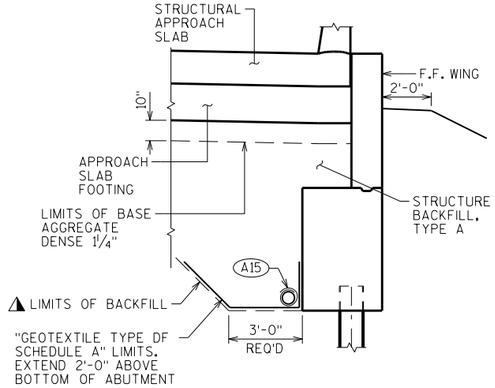
STATE PROJECT NUMBER

1146-75-71



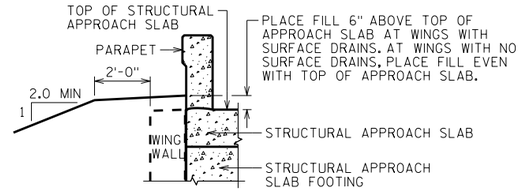
TYPICAL SECTION THRU WEST ABUTMENT

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

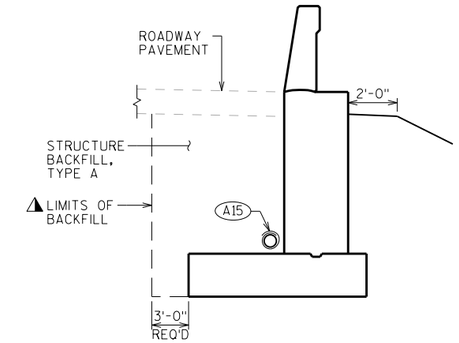


SECTION THRU WINGS

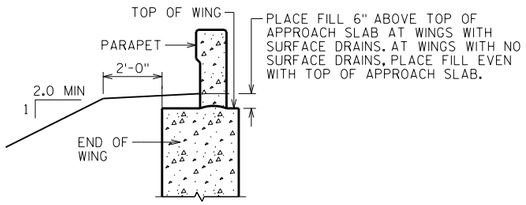
AT WEST ABUT. WINGS ONLY



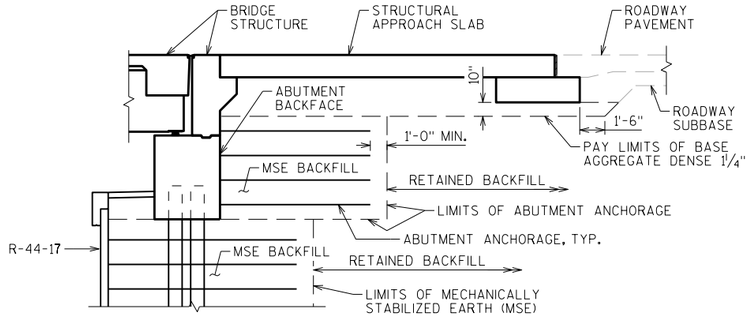
TYPICAL FILL SECTION AT END OF STRUCTURAL APPROACH SLABS (WINGS 1 & 3)



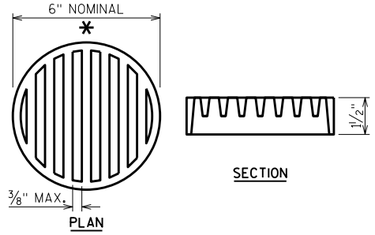
SECTION THRU RETAINING WALL



TYPICAL FILL SECTION AT END OF WINGS 2 & 4



TYPICAL SECTION THRU EAST ABUTMENT



PLAN

SECTION

RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

BACKFILL DETAILS

SHEET 4

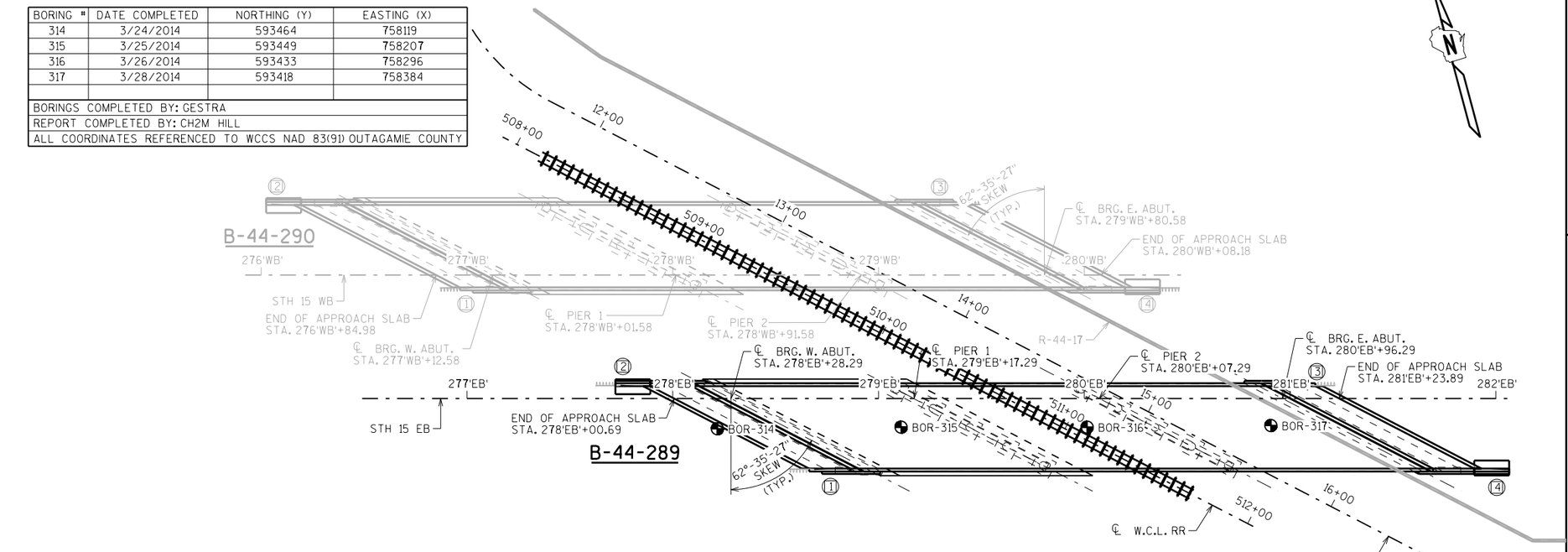
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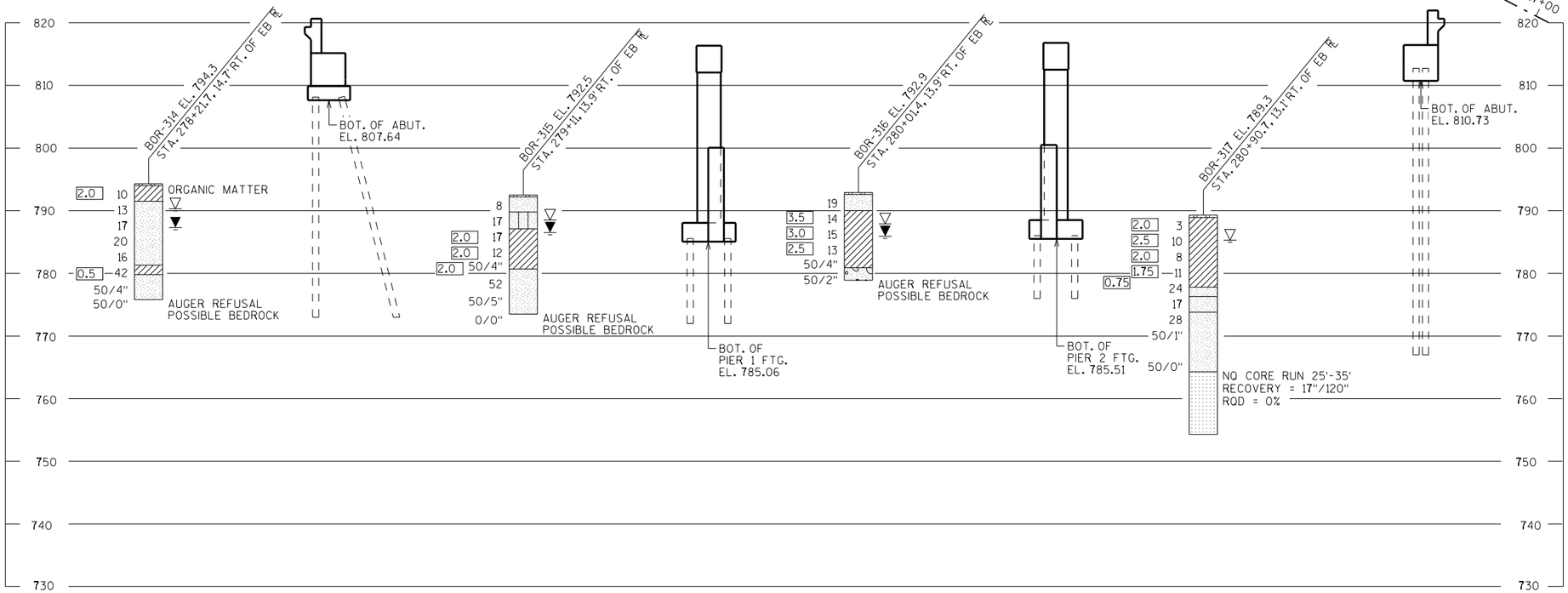
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8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
314	3/24/2014	593464	758119
315	3/25/2014	593449	758207
316	3/26/2014	593433	758296
317	3/28/2014	593418	758384
BORINGS COMPLETED BY: GESTRA			
REPORT COMPLETED BY: CH2M HILL			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY			





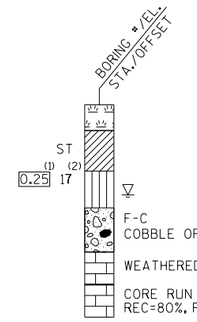
STATE PROJECT NUMBER

1146-75-71

MATERIAL SYMBOLS

ASPHALT, TOPSOIL, PEAT, CONCRETE, FILL, GRAVEL, SAND, CLAY, SILT, BOULDERS OR COBBLES, LIMESTONE, BEDROCK (UNKNOWN), SHALE, SANDSTONE, IGNEOUS/META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY TLP/NAR | PLANS CK'D. EMK

SUBSURFACE EXPLORATION

SHEET 5

231

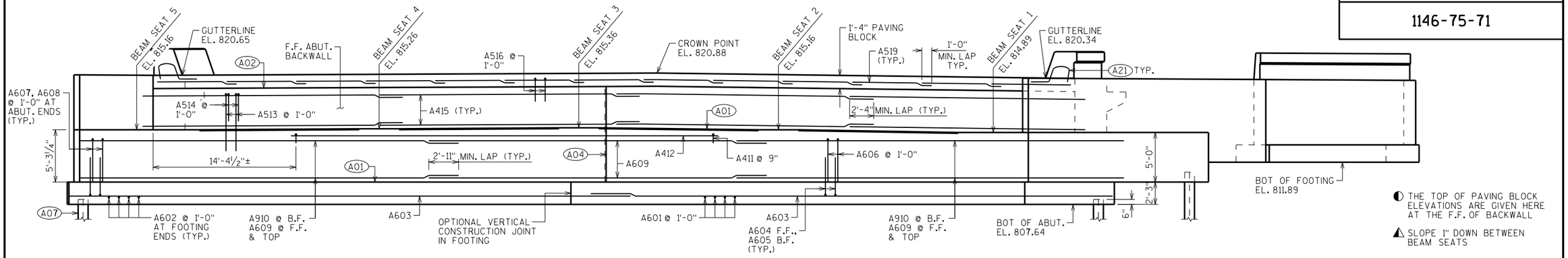
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STATE PROJECT NUMBER

1146-75-71



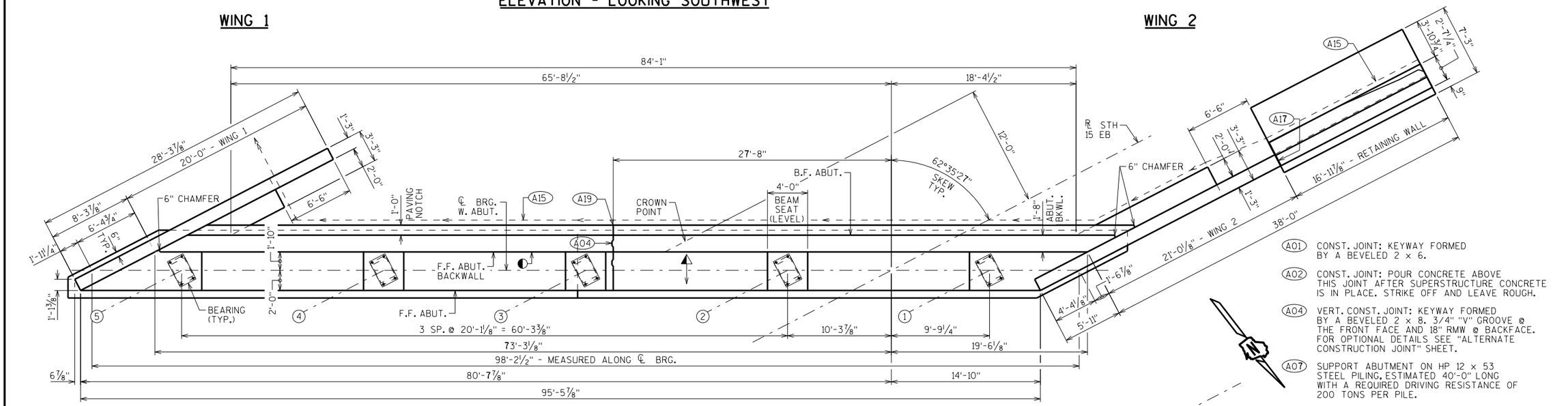
◐ THE TOP OF PAVING BLOCK ELEVATIONS ARE GIVEN HERE AT THE F.F. OF BACKWALL

◭ SLOPE 1" DOWN BETWEEN BEAM SEATS

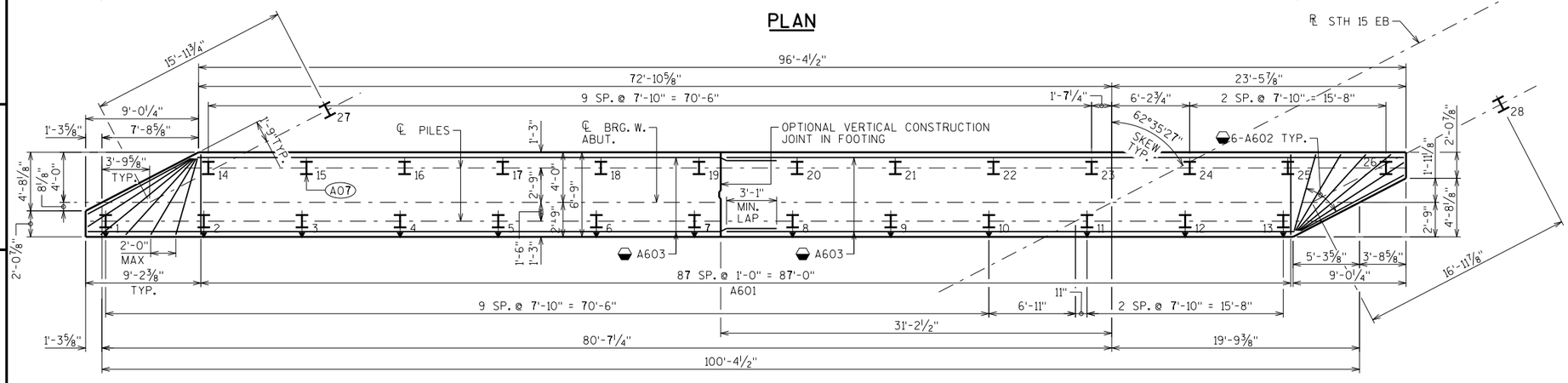
ELEVATION - LOOKING SOUTHWEST

WING 1

WING 2



PLAN



FOOTING & PILE PLAN

‡ INDICATES PILE BATTERED 1:4 IN DIRECTION SHOWN (PILES 1-13)

▽ CUT BARS AS NECESSARY TO FIT

(A01) CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 × 6.

(A02) CONST. JOINT: POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.

(A04) VERT. CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 × 8. 3/4" "V" GROOVE @ THE FRONT FACE AND 18" RMW @ BACKFACE. FOR OPTIONAL DETAILS SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.

(A07) SUPPORT ABUTMENT ON HP 12 × 53 STEEL PILING, ESTIMATED 40'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 200 TONS PER PILE.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) ½" FILLER: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(A21) FOR PPT. BARS & DIMENSIONS SEE PARAPET SHEET.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

WEST ABUTMENT

SHEET 6

232

SCALE = 5.00

8

8

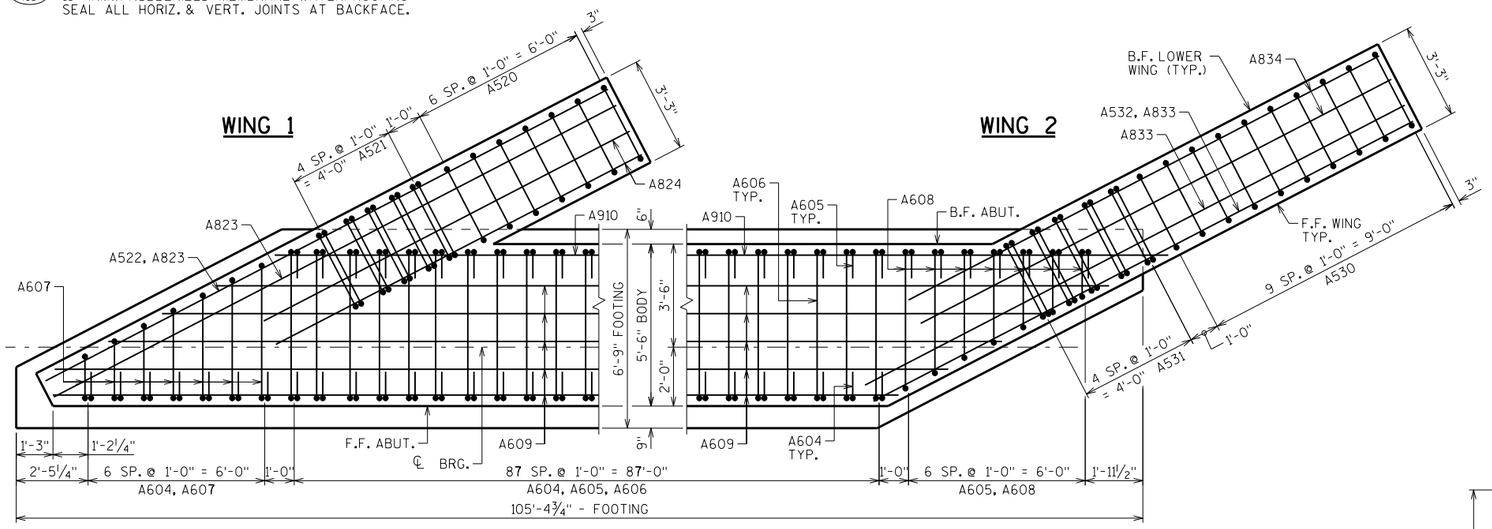
(A01) CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 × 6.

(A02) CONST. JOINT: POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.

(A07) SUPPORT ABUTMENT ON HP 12 × 53 STEEL PILING, ESTIMATED 40'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 200 TONS PER PILE.

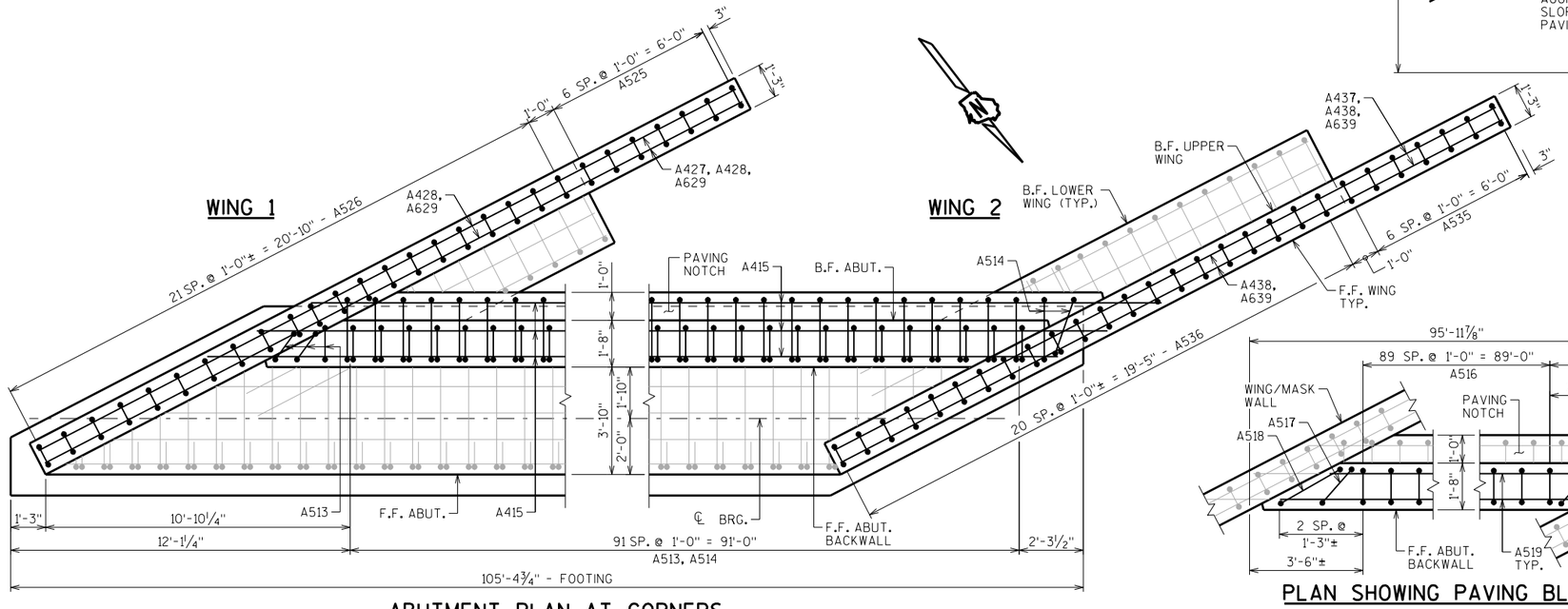
(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



ABUTMENT PLAN AT CORNERS

(SHOWING BAR STEEL REINFORCEMENT IN ABUTMENT BODY AND LOWER WING BODY)



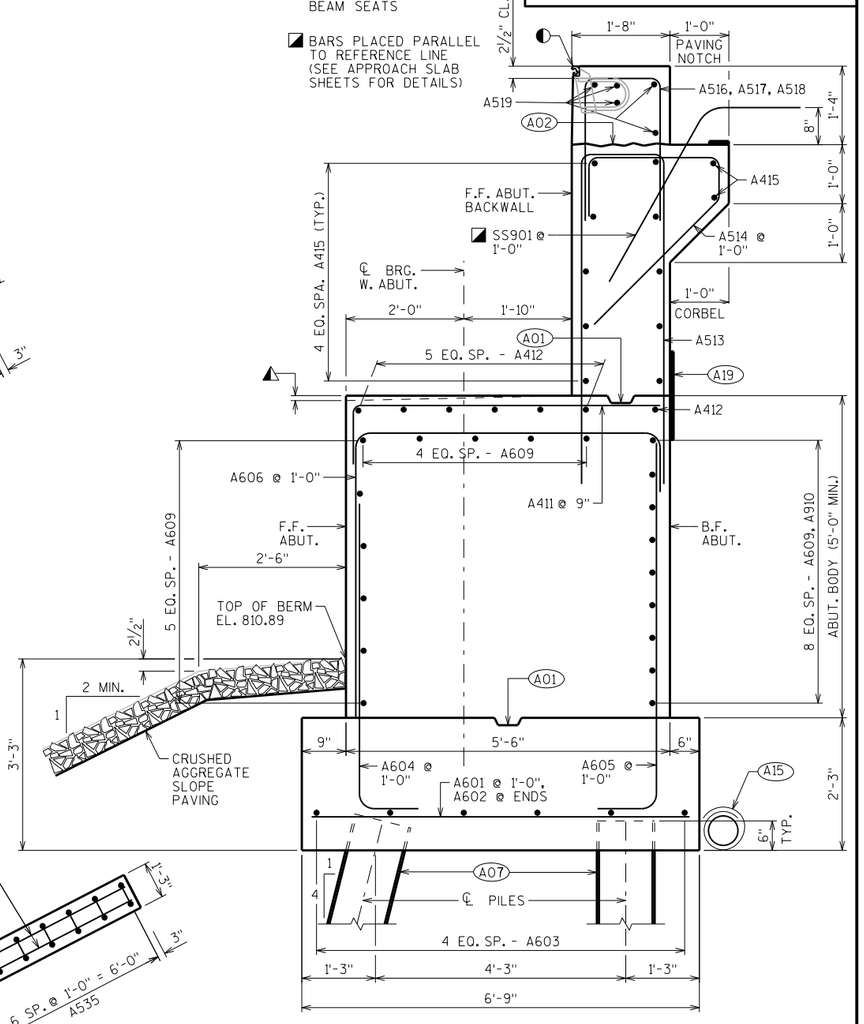
ABUTMENT PLAN AT CORNERS

(SHOWING BAR STEEL REINFORCEMENT IN ABUTMENT BACKWALL AND UPPER WING WALLS)

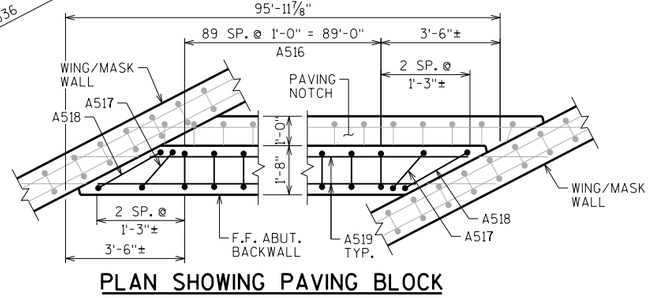
◐ THE TOP OF PAVING BLOCK ELEVATIONS ARE GIVEN HERE AT THE F.F. OF BACKWALL

◭ SLOPE 1" DOWN BETWEEN BEAM SEATS

◪ BARS PLACED PARALLEL TO REFERENCE LINE (SEE APPROACH SLAB SHEETS FOR DETAILS)



SECTION THRU BODY



PLAN SHOWING PAVING BLOCK REINFORCEMENT AT CORNERS

☆ SEE RETAINING WALL DETAILS ON "WEST ABUTMENT DETAILS 2" AND "WEST ABUTMENT DETAILS 3" SHEETS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

WEST ABUTMENT DETAILS 1

SHEET 7

233

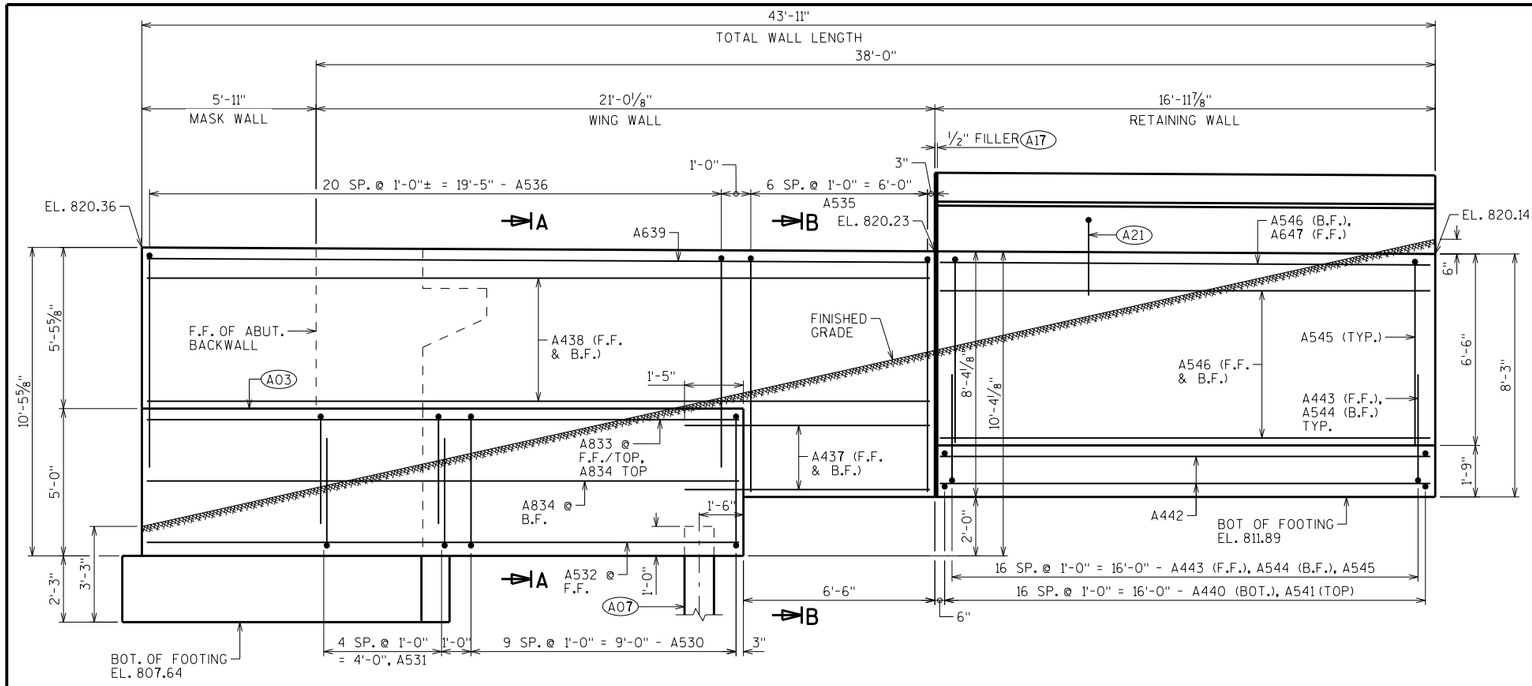
STATE PROJECT NUMBER

1146-75-71

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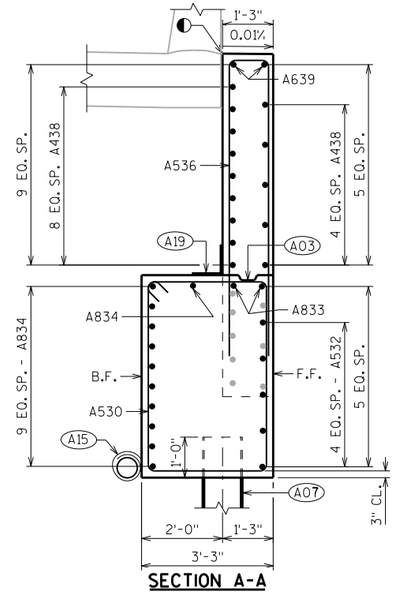
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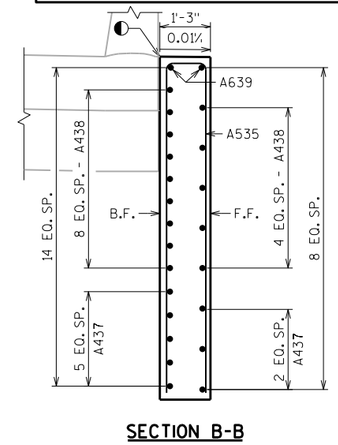


WING 2 ELEVATION

◐ THE TOP OF WING ELEVATIONS ARE GIVEN AT THE B.F. OF WING

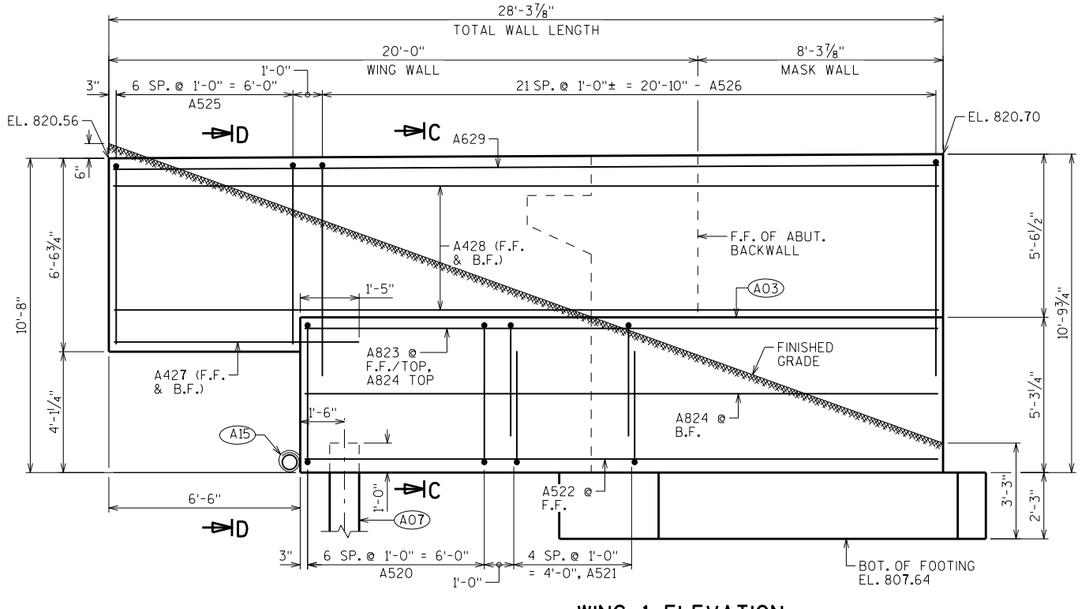


SECTION A-A

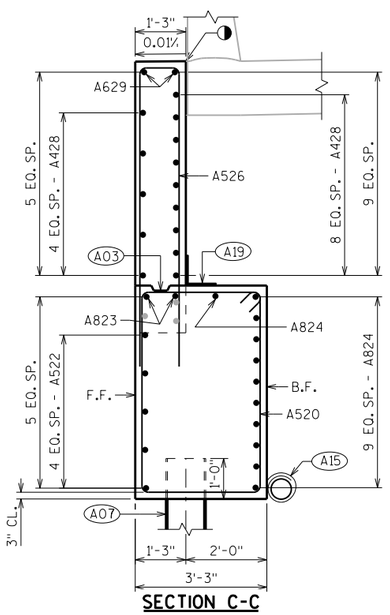


SECTION B-B

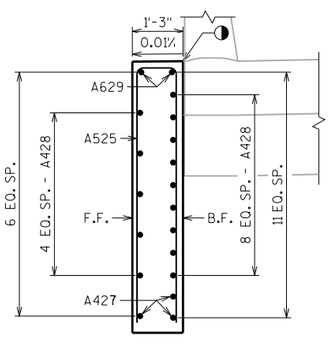
SECTIONS THRU WING 2



WING 1 ELEVATION



SECTION C-C



SECTION D-D

SECTIONS THRU WING 1

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

(A07) SUPPORT ABUTMENT ON HP 12 x 53 STEEL PILING, ESTIMATED 40'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 200 TONS PER PILE.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) 1/2" FILLER: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(A21) FOR PPT. BARS & DIMENSIONS SEE PARAPET SHEET.

STATE PROJECT NUMBER

1146-75-71

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

WEST ABUTMENT DETAILS 2

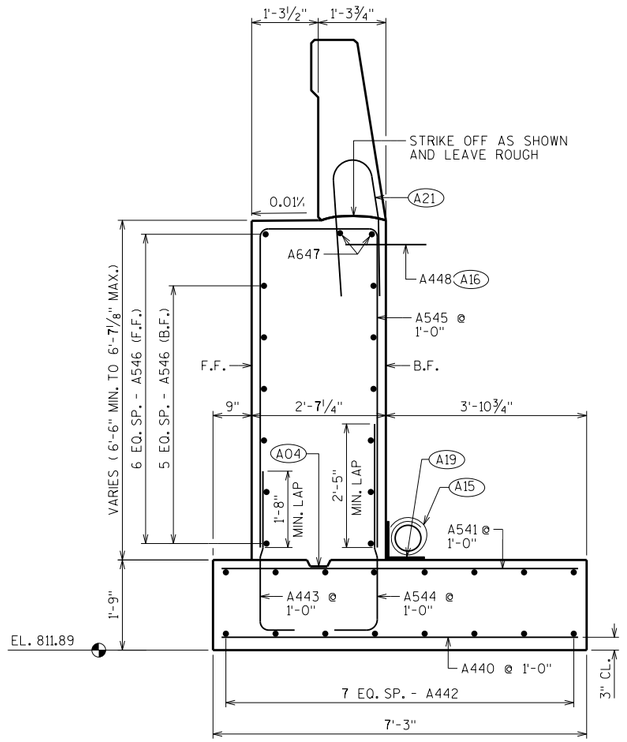
SHEET 8

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SCALE = 5.00



SECTION THRU RETAINING WALL

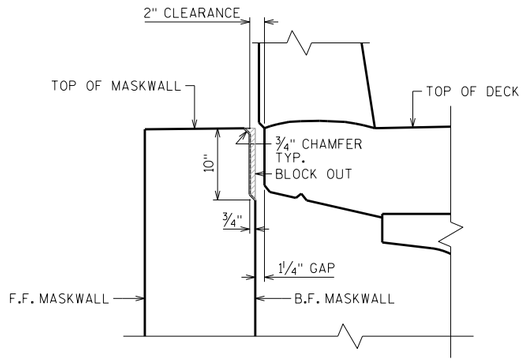
(A04) CONST. JOINT FORMED BY SURFACED, BEVELED 2 X 6.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A16) BARS SPACED @ 1'-0" CTRS. EMBED 1'-0" INTO WALL CONC. LOCATE 3" DOWN FROM TOP OF WALL @ END OF APPROACH SLAB TO 6" DOWN @ END OF WALL.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

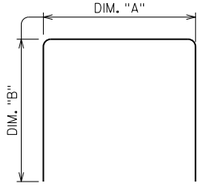
(A21) FOR PPT. BARS & DIMENSIONS SEE PARAPET SHEET.



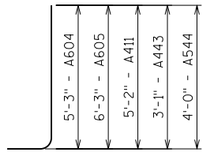
SECTION AT MASKWALL

(SHOWING CLEARANCE BETWEEN EDGE OF DECK AND MASK WALL)

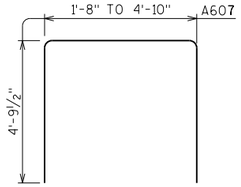
BAR MARK	DIM "A"	DIM. "B"
A513	1'-4"	5'-8"
A516	1'-4"	2'-8"
A517	1'-9½"	2'-8"
A518	2'-8"	2'-8"
A521	2'-11"	3'-9"
A525	11"	6'-2"
A526	11"	7'-5"
A531	2'-11"	3'-7"
A535	11"	8'-0"
A536	11"	7'-4"
A545	2'-3"	6'-4"



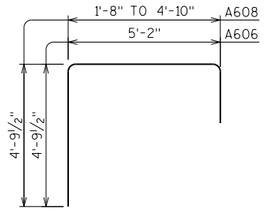
A513, A516, A517, A518, A521, A525 A526, A531, A535, A536, A545



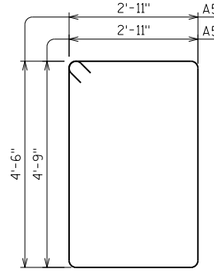
A604, A605, A411 A443, A544



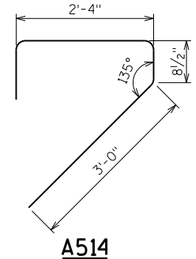
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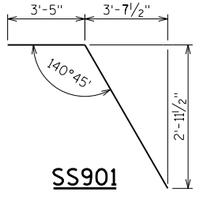
A606, A608



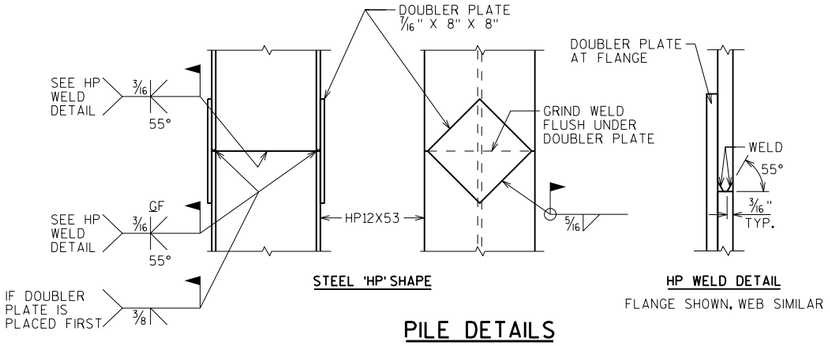
A520, A530



A514



SS901



STEEL 'HP' SHAPE

HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

PILE DETAILS

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A601		88	6'-5"			FOOTING-BOT.-HORIZ.-TRANS.
A602		12	10'-0"			FOOTING-BOT.-HORIZ.-TRANS.
A603		12	51'-6"		⚠	FOOTING-BOT.-HORIZ.-LONGIT.
A604		95	6'-1"	X		FOOTING/BODY-F.F.-VERT.-TRANS.
A605		95	7'-1"	X		FOOTING/BODY-B.F.-VERT.-TRANS.
A606		88	11'-5"	X		BODY-F.F.-VERT.-TRANS.
A607		7	12'-7"	X	⚠	BODY-F.F.-VERT.-TRANS.-END
A608		7	9'-8"	X	⚠	BODY-F.F.-VERT.-TRANS.-END
A609		39	34'-5"			BODY-F.F./B.F./TOP-HORIZ.-LONGIT.
A910		18	34'-5"			BODY-B.F.-HORIZ.-LONGIT.
A411		57	6'-1"	X		BODY-TOP-HORIZ.-TRANS.
A412		7	43'-0"			BODY-TOP-HORIZ.-LONGIT.
A513	X	95	12'-5"	X		BACKWALL/BODY-VERT.-TRANS.
A514	X	94	6'-7"	X		BACKWALL/CORBEL-TOP-VERT.-TRANS.
A415	X	48	26'-2"			BACKWALL/BODY-F.F.&B.F.-HORIZ.-LONGIT.
A516	X	90	6'-5"	X		BACKWALL/PAVING BLOCK-VERT.-TRANS.
A517	X	2	6'-11"	X		BACKWALL/PAVING BLOCK-VERT.-TRANS.
A518	X	2	7'-9"	X		BACKWALL/PAVING BLOCK-VERT.-TRANS.
A519	X	65	8'-0"			PAVING BLOCK-HORIZ.-LONGIT.
A520	X	7	16'-0"	X		WING 1-BODY-VERT.-STIRRUP
A521	X	10	10'-2"	X		WING 1-BODY-VERT.-STIRRUP
A522	X	5	21'-6"			WING 1-BODY-F.F.-HORIZ.
A823	X	2	21'-6"			WING 1-BODY-F.F.-HORIZ.
A824	X	11	14'-0"			WING 1-BODY-TOP&B.F.-HORIZ.
A525	X	7	13'-0"	X		WING 1-WALL-VERT.-END
A526	X	22	15'-6"	X		WING 1-WALL/BODY-VERT.
A427	X	3	7'-9"			WING 1-WALL/BODY-HORIZ.-END
A428	X	14	28'-0"			WING 1-WALL-F.F.&B.F.-HORIZ.
A629	X	2	28'-0"			WING 1-WALL-F.F.&B.F.-TOP-HORIZ.
A530	X	10	15'-6"	X		WING 2-BODY-VERT.-STIRRUP
A531	X	10	9'-10"	X		WING 2-BODY-VERT.-STIRRUP
A532	X	5	20'-4"			WING 2-BODY-F.F.-HORIZ.
A833	X	2	20'-4"			WING 2-BODY-F.F.-HORIZ.
A834	X	11	18'-0"			WING 2-BODY-TOP&B.F.-HORIZ.
A535	X	7	16'-8"	X		WING 2-WALL-VERT.-END
A536	X	21	15'-4"	X		WING 2-WALL/BODY-VERT.
A437	X	8	7'-9"			WING 2-WALL/BODY-HORIZ.-END
A438	X	14	26'-7"			WING 2-WALL-F.F.&B.F.-HORIZ.
A639	X	2	26'-7"			WING 2-WALL-F.F.&B.F.-TOP-HOR
A440		17	6'-11"			RET. WALL-FOOTING-BOT.-TRANS.
A541		17	6'-11"			RET. WALL-FOOTING-TOP-TRANS.
A442		16	16'-7"			RET. WALL-FOOTING-TOP&BOT.-LONGIT.
A443	X	17	3'-8"	X		RET. WALL-FOOTING/WALL-F.F.-VERT.
A544	X	17	4'-9"	X		RET. WALL-FOOTING/WALL-B.F.-VERT.
A545	X	17	14'-8"	X		RET. WALL-WALL-VERT.
A546	X	13	16'-7"			RET. WALL-WALL-F.F.&B.F.-HORIZ.
A647	X	2	16'-7"			RET. WALL-WALL-TOP-HORIZ.
A448	X	17	2'-0"			RET. WALL-SURFACE DRAIN ANCHORS
STAINLESS STEEL REINFORCEMENT → SS901		43	8'-1"	X		APPROACH SLAB/CORBEL/BACKWALL-VERT.

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
A603	2 SERIES OF 6	45'-6" TO 57'-6"
A607	1 SERIES OF 7	11'-0" TO 14'-2"
A608	1 SERIES OF 7	7'-11" TO 11'-5"

BUNDLE AND TAG EACH SERIES SEPARATELY.

STATE PROJECT NUMBER

1146-75-71

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

WEST ABUTMENT DETAILS 3

SHEET 9

235

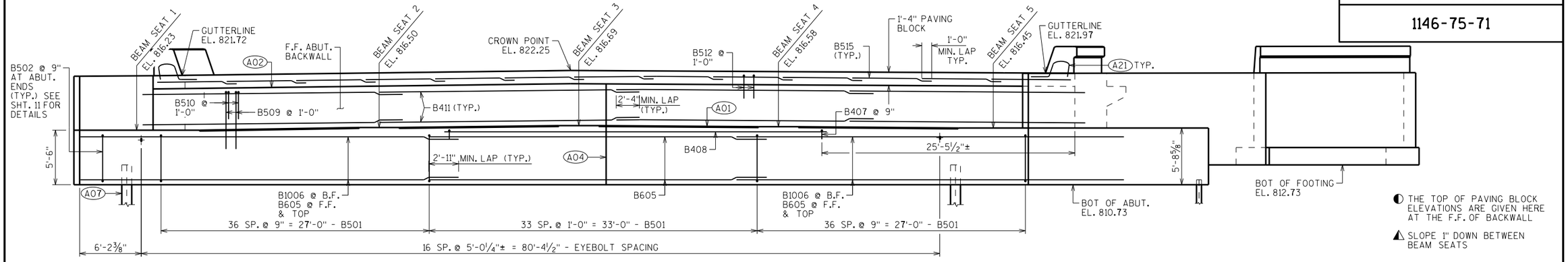
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8

STATE PROJECT NUMBER

1146-75-71



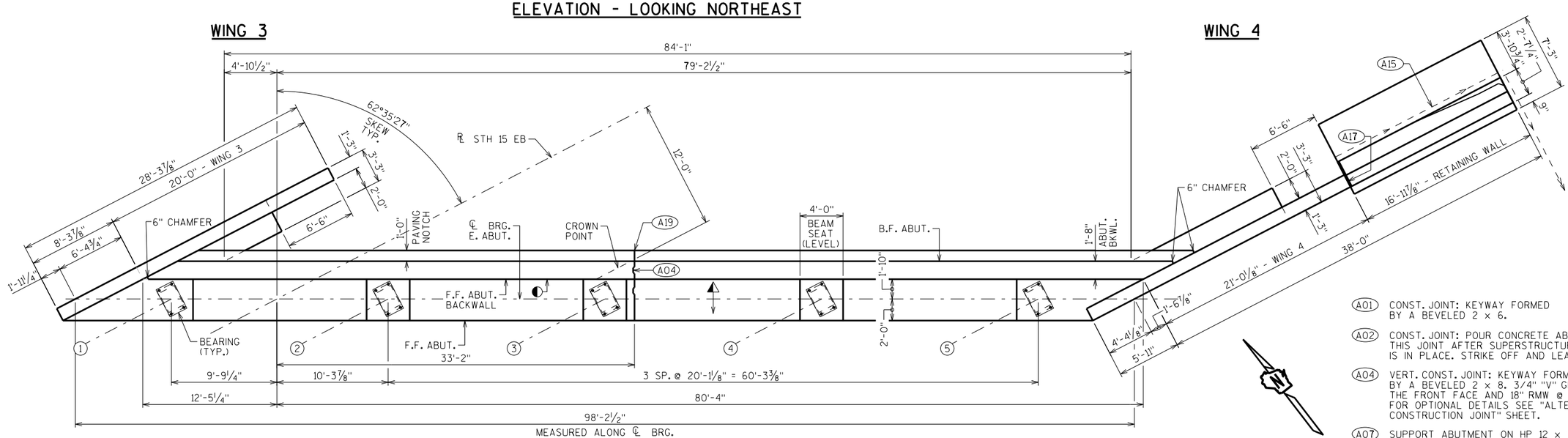
THE TOP OF PAVING BLOCK ELEVATIONS ARE GIVEN HERE AT THE F.F. OF BACKWALL

SLOPE 1" DOWN BETWEEN BEAM SEATS

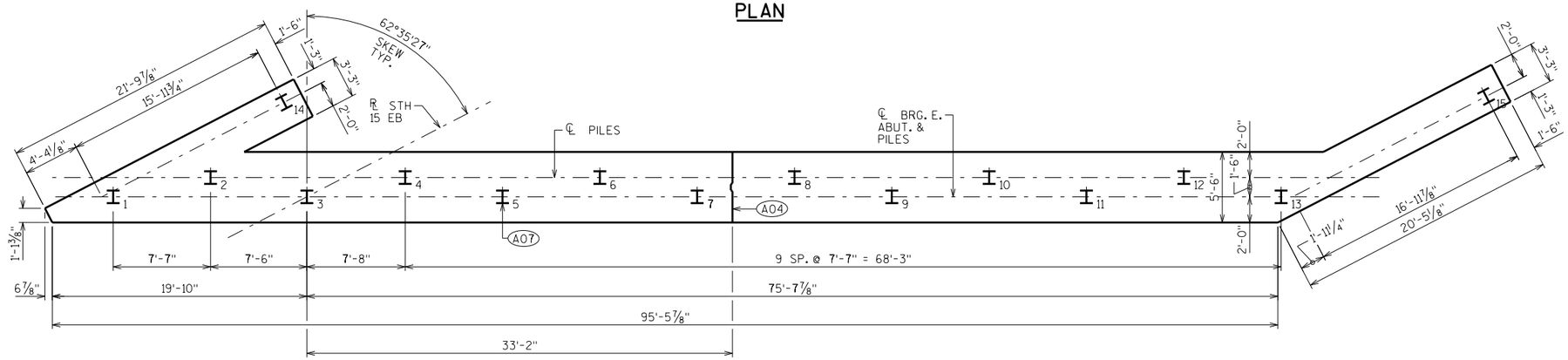
ELEVATION - LOOKING NORTHEAST

WING 3

WING 4



PLAN



PILE PLAN

A01 CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 × 6.

A02 CONST. JOINT: POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.

A04 VERT. CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 × 8. 3/4" "V" GROOVE @ THE FRONT FACE AND 18" RMW @ BACKFACE. FOR OPTIONAL DETAILS SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.

A07 SUPPORT ABUTMENT ON HP 12 × 53 STEEL PILING, ESTIMATED 50'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

A17 ½" FILLER: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

A19 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

A21 FOR PPT. BARS & DIMENSIONS SEE PARAPET SHEET.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

EAST ABUTMENT

SHEET 10

236

SCALE = 5.00

8

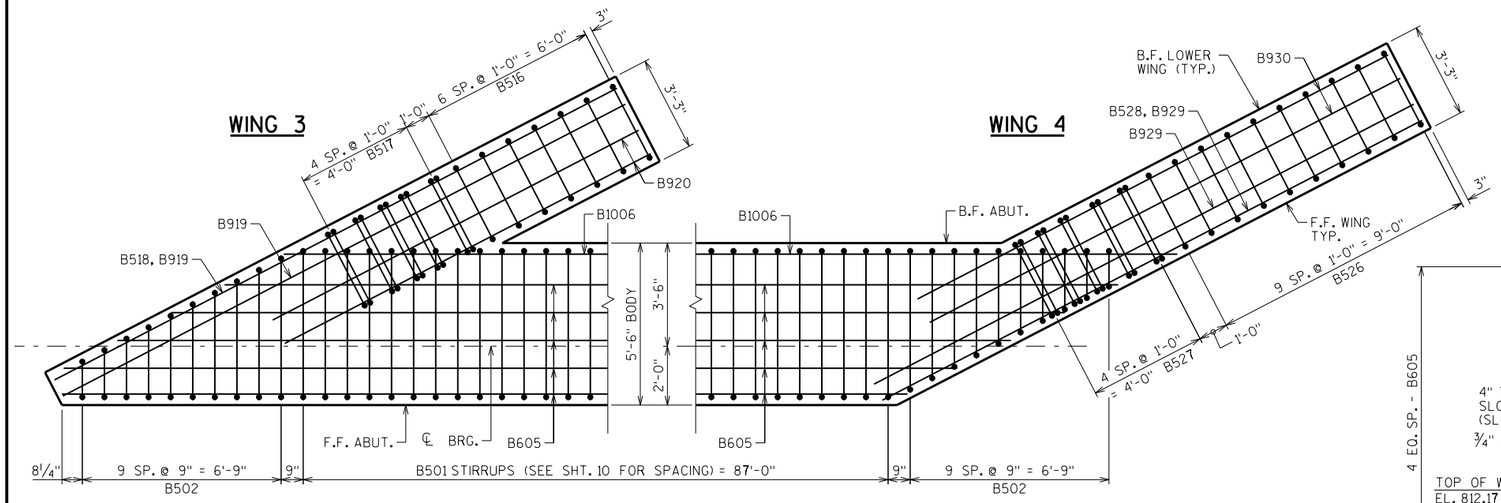
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(A01) CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 × 6.

(A02) CONST. JOINT: POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.

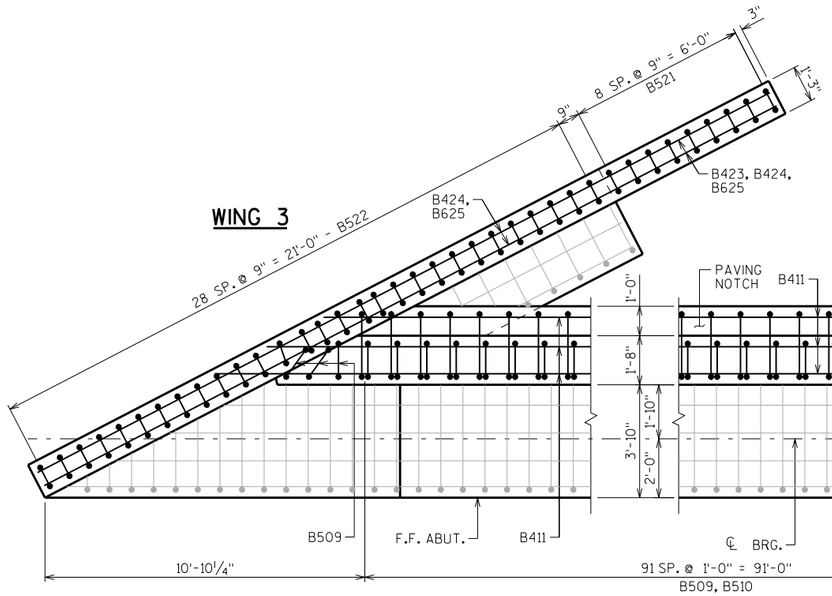
(A07) SUPPORT ABUTMENT ON HP 12 × 53 STEEL PILING, ESTIMATED 50'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



ABUTMENT PLAN AT CORNERS

(SHOWING BAR STEEL REINFORCEMENT IN ABUTMENT BODY AND LOWER WING BODY)



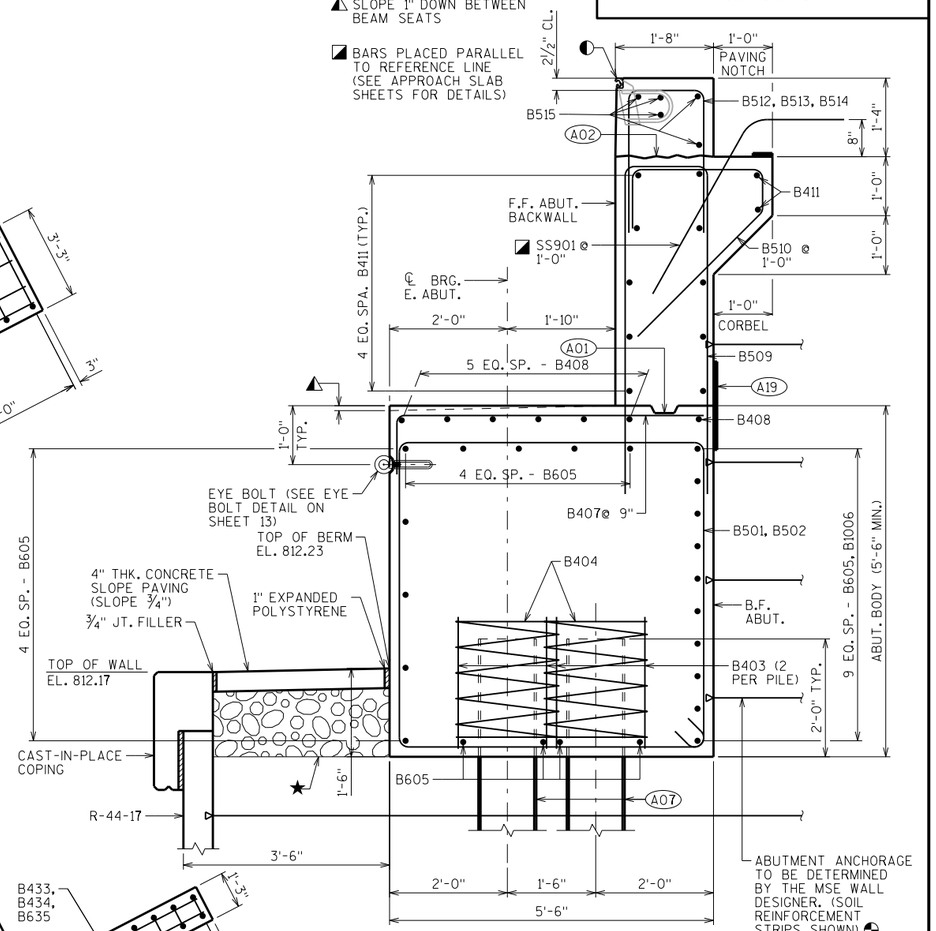
ABUTMENT PLAN AT CORNERS

(SHOWING BAR STEEL REINFORCEMENT IN ABUTMENT BACKWALL AND UPPER WING WALLS)

◐ THE TOP OF PAVING BLOCK ELEVATIONS ARE GIVEN HERE AT THE F.F. OF BACKWALL

◭ SLOPE 1" DOWN BETWEEN BEAM SEATS

◪ BARS PLACED PARALLEL TO REFERENCE LINE (SEE APPROACH SLAB SHEETS FOR DETAILS)

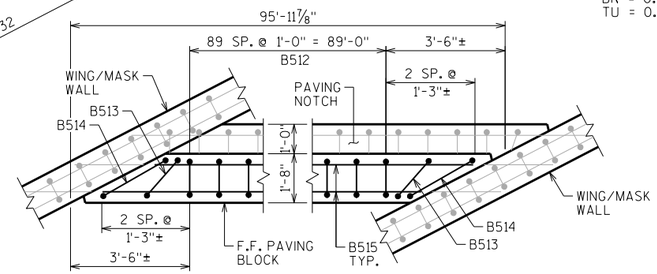


SECTION THRU BODY

★ MSE BACKFILL OR SIZE NO. 2 COURSE AGGREGATE. COST INCIDENTAL TO BID ITEM "SLOPE PAVING CONCRETE".

◓ UNFACTORED SUPERSTRUCTURE LATERAL LOADS TRANSFERRED TO THE ABUTMENT ARE TAKEN TO BE KIPS PER FOOT OF ABUTMENT LENGTH. THE VALUES ARE TO BE USED FOR THE LRFD DESIGN OF THE ABUTMENT ANCHORAGE BY THE MSE MANUFACTURER (MSE SYSTEM, DEADMAN ANCHOR, OTHER). THE FOLLOWING AASHTO LINE LOADS SHALL BE NOTED ON THE PLAN:

BR = 0.20 KLF WS = 0.18 KLF
TU = 0.73 KLF WL = 0.05 KLF



PLAN SHOWING PAVING BLOCK REINFORCEMENT AT CORNERS

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

EAST ABUTMENT DETAILS 1

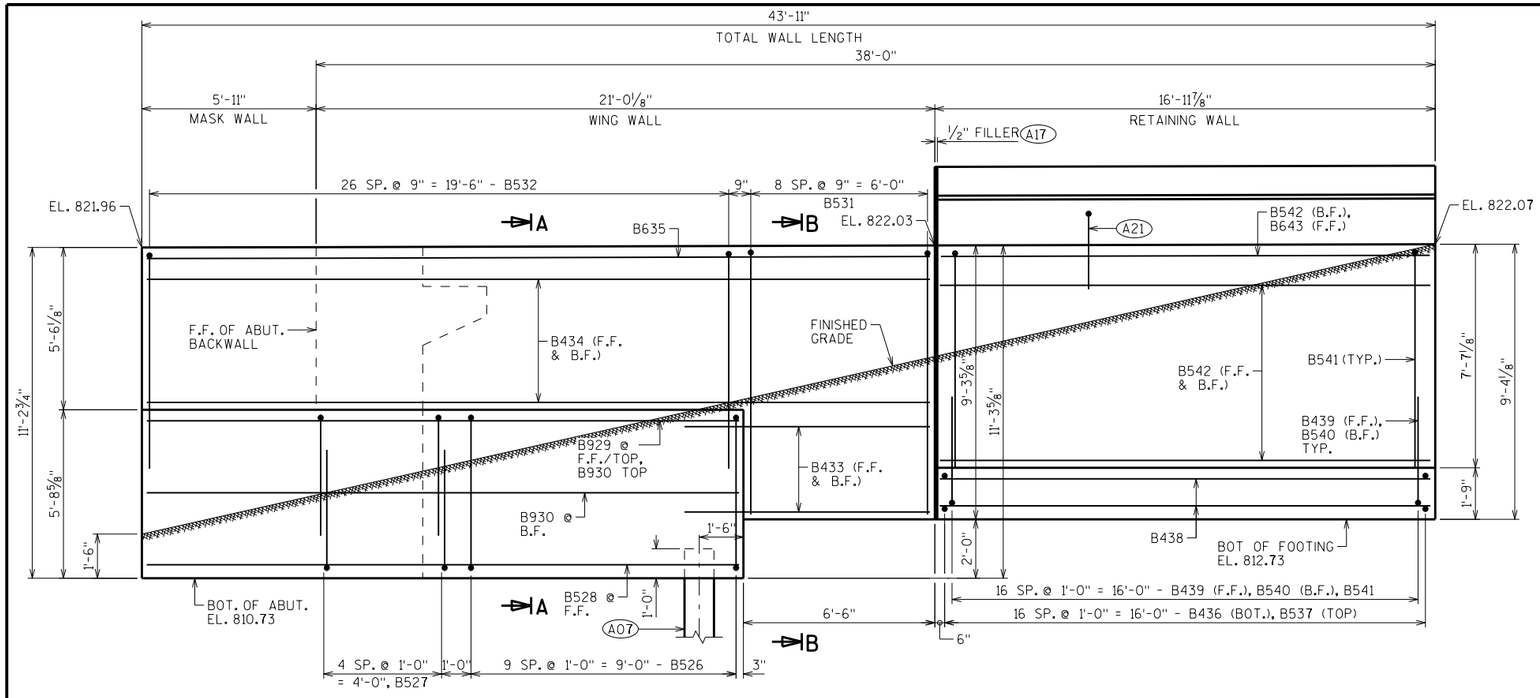
SHEET 11

237

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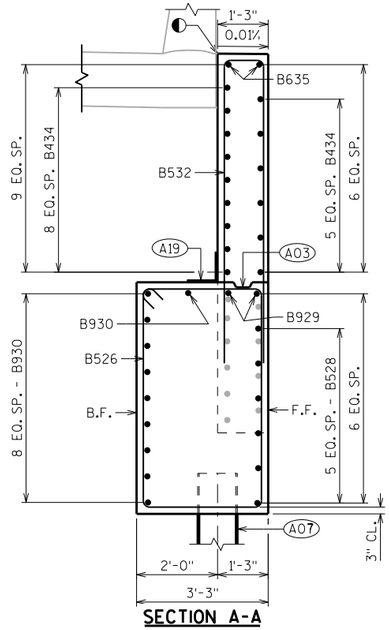
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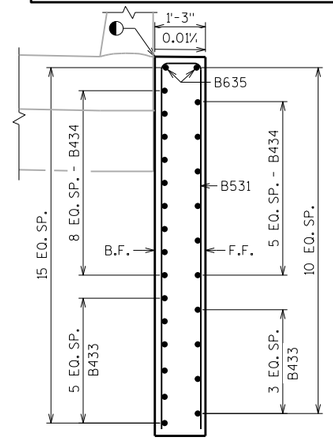


WING 4 ELEVATION

THE TOP OF WING ELEVATIONS ARE GIVEN AT THE B.F. OF WING

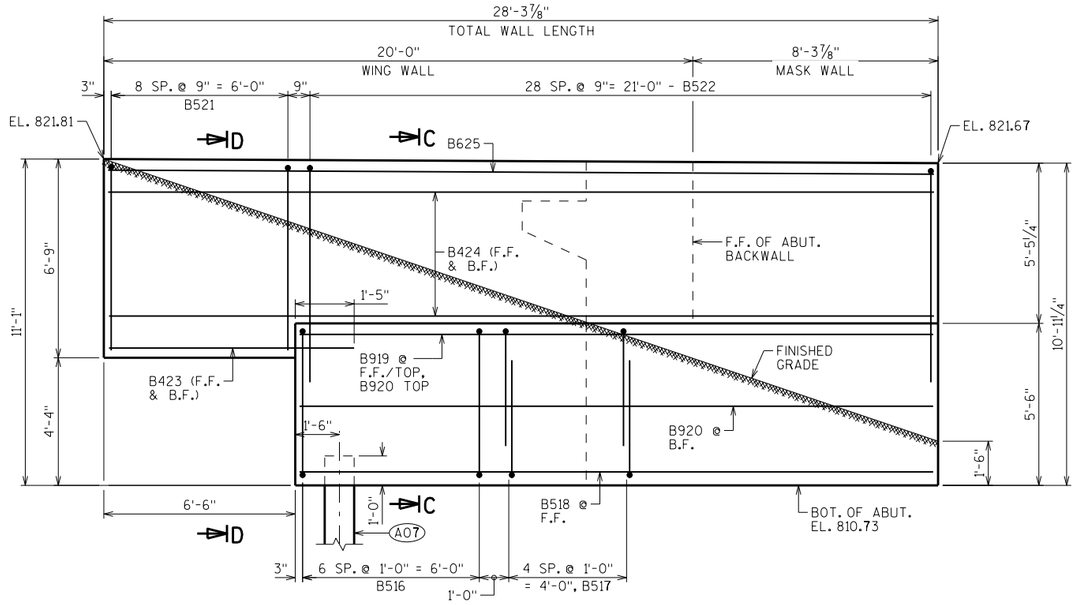


SECTION A-A

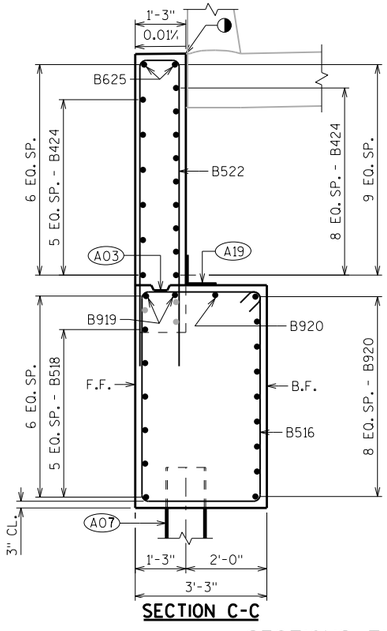


SECTION B-B

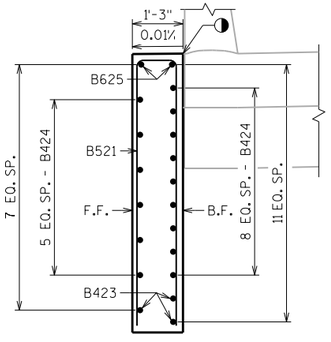
SECTIONS THRU WING 4



WING 3 ELEVATION



SECTION C-C



SECTION D-D

SECTIONS THRU WING 3

A03 OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 × 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

A07 SUPPORT ABUTMENT ON HP 12 × 53 STEEL PILING, ESTIMATED 50'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

A17 1/2" FILLER: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

A19 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

A21 FOR PPT. BARS & DIMENSIONS SEE PARAPET SHEET.

STATE PROJECT NUMBER

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

EAST ABUTMENT DETAILS 2

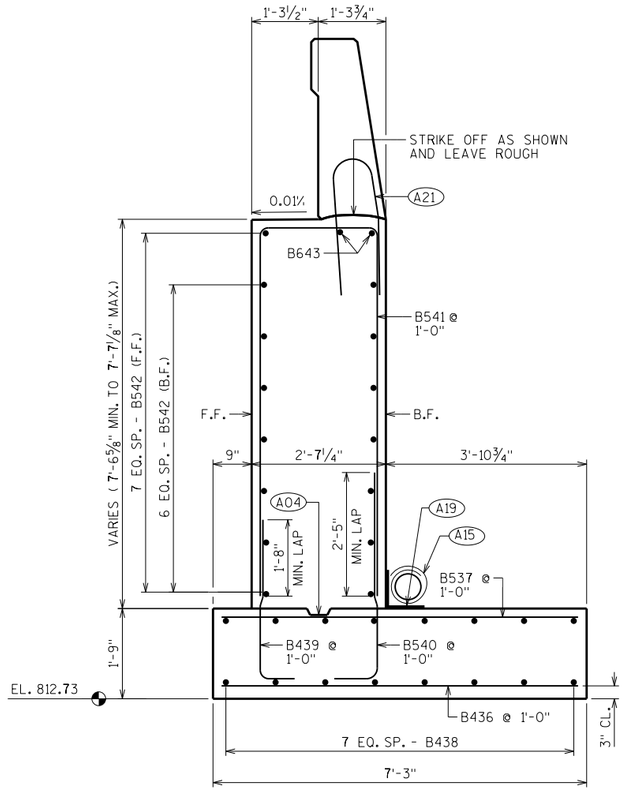
SHEET 12

238

8

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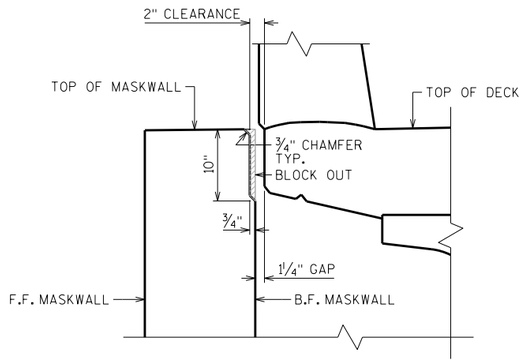
SECTION THRU RETAINING WALL

(A04) CONST. JOINT FORMED BY SURFACED, BEVELED 2 X 6.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

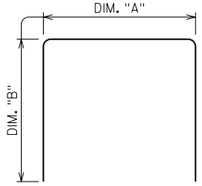
(A21) FOR PPT. BARS & DIMENSIONS SEE PARAPET SHEET.



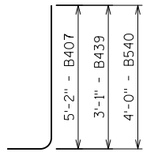
SECTION AT MASKWALL

(SHOWING CLEARANCE BETWEEN EDGE OF DECK AND MASK WALL)

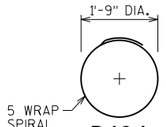
BAR MARK	DIM "A"	DIM. "B"
B509	1'-4"	5'-8"
B512	1'-4"	2'-8"
B513	1'-9½"	2'-8"
B514	2'-8"	2'-8"
B517	2'-11"	3'-10"
B521	11"	6'-4"
B522	11"	7'-5"
B527	2'-11"	3'-11"
B531	11"	8'-11"
B532	11"	7'-5"
B541	2'-3"	7'-4½"



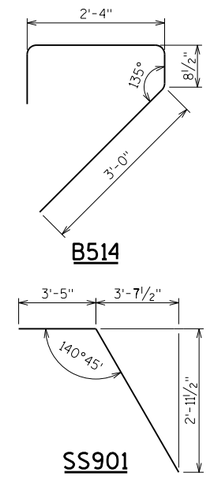
B509, B512, B513, B514, B517, B521 B522, B527, B531, B532, B541



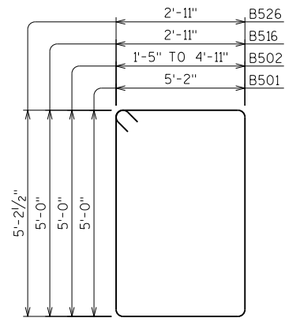
B407, B439, B540



B404



B514



B501, B502, B516, B526

SS901

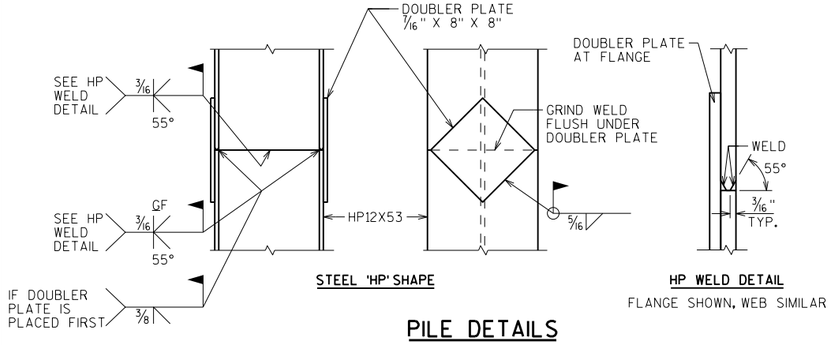
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		106	21'-0"	X		BODY-STIRRUP-VERT.
B502		20	17'-0"	X	⚠	BODY-STIRRUP-VERT.-ENDS
B403		26	2'-3"			PILE-VERT.-2 PER BODY PILE
B404		13	28'-0"	X		PILE-SPIRAL-1 PER BODY PILE
B605		49	34'-5"			BODY-F.F./B.F./TOP-HORIZ.-LONGIT.
B1006		20	34'-5"			BODY-B.F.-HORIZ.-LONGIT.
B407		51	6'-1"	X		BODY-TOP-HORIZ.-TRANS.
B408		7	38'-6"			BODY-TOP-HORIZ.-LONGIT.
B509	X	95	12'-5"	X		BACKWALL/BODY-VERT.-TRANS.
B510	X	94	6'-7"	X		BACKWALL/CORBEL-TOP-VERT.-TRANS.
B411	X	48	26'-2"			BACKWALL/BODY-F.F.&B.F.-HORIZ.-LONGIT.
B512	X	90	6'-5"	X		BACKWALL/PAVING BLOCK-VERT.-TRANS.
B513	X	2	6'-11"	X		BACKWALL/PAVING BLOCK-VERT.-TRANS.
B514	X	2	7'-9"	X		BACKWALL/PAVING BLOCK-VERT.-TRANS.
B515	X	65	8'-0"			PAVING BLOCK-HORIZ.-LONGIT.
B516	X	7	16'-6"	X		WING 3-BODY-VERT.-STIRRUP
B517	X	10	10'-4"	X		WING 3-BODY-VERT.-STIRRUP
B518	X	6	21'-6"			WING 3-BODY-F.F.-HORIZ.
B919	X	2	21'-6"			WING 3-BODY-F.F.-HORIZ.
B920	X	10	14'-0"			WING 3-BODY-TOP&B.F.-HORIZ.
B521	X	9	13'-4"	X		WING 3-WALL-VERT.-END
B522	X	29	15'-6"	X		WING 3-WALL/BODY-VERT.
B423	X	3	7'-9"			WING 3-WALL/BODY-HORIZ.-END
B424	X	15	28'-0"			WING 3-WALL-F.F.&B.F.-HORIZ.
B625	X	2	28'-0"			WING 3-WALL-F.F.&B.F.-TOP-HORIZ.
B526	X	10	16'-11"	X		WING 4-BODY-VERT.-STIRRUP
B527	X	10	10'-6"	X		WING 4-BODY-VERT.-STIRRUP
B528	X	6	20'-3"			WING 4-BODY-F.F.-HORIZ.
B929	X	2	20'-3"			WING 4-BODY-F.F.-HORIZ.
B930	X	10	19'-0"			WING 4-BODY-TOP&B.F.-HORIZ.
B531	X	9	18'-6"	X		WING 4-WALL-VERT.-END
B532	X	27	15'-6"	X		WING 4-WALL/BODY-VERT.
B433	X	10	7'-9"			WING 4-WALL/BODY-HORIZ.-END
B434	X	15	26'-7"			WING 4-WALL-F.F.&B.F.-HORIZ.
B635	X	2	26'-7"			WING 4-WALL-F.F.&B.F.-TOP-HORIZ.
B436		17	6'-11"			RET. WALL-FOOTING-BOT.-TRANS.
B537		17	6'-11"			RET. WALL-FOOTING-TOP-TRANS.
B438		16	16'-7"			RET. WALL-FOOTING-TOP&BOT.-LONGIT.
B439	X	17	3'-8"	X		RET. WALL-FOOTING/WALL-F.F.-VERT.
B540	X	17	4'-9"	X		RET. WALL-FOOTING/WALL-B.F.-VERT.
B541	X	17	16'-9"	X		RET. WALL-WALL-VERT.
B542	X	15	16'-7"			RET. WALL-WALL-F.F.&B.F.-HORIZ.
B643	X	2	16'-7"			RET. WALL-WALL-TOP-HORIZ.
SS901		43	8'-1"	X		APPROACH SLAB/CORBEL/BACKWALL-VERT.

STAINLESS STEEL REINFORCEMENT

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

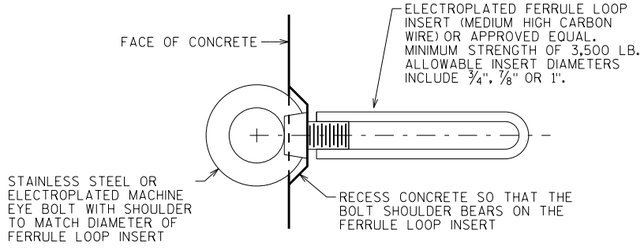


STEEL 'HP' SHAPE

HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

PILE DETAILS



EYE BOLT DETAIL

COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
B502	2 SERIES OF 10	13'-6" TO 20'-6"

BUNDLE AND TAG EACH SERIES SEPARATELY.

STATE PROJECT NUMBER

1146-75-71

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

EAST ABUTMENT DETAILS 3

SHEET 13

239

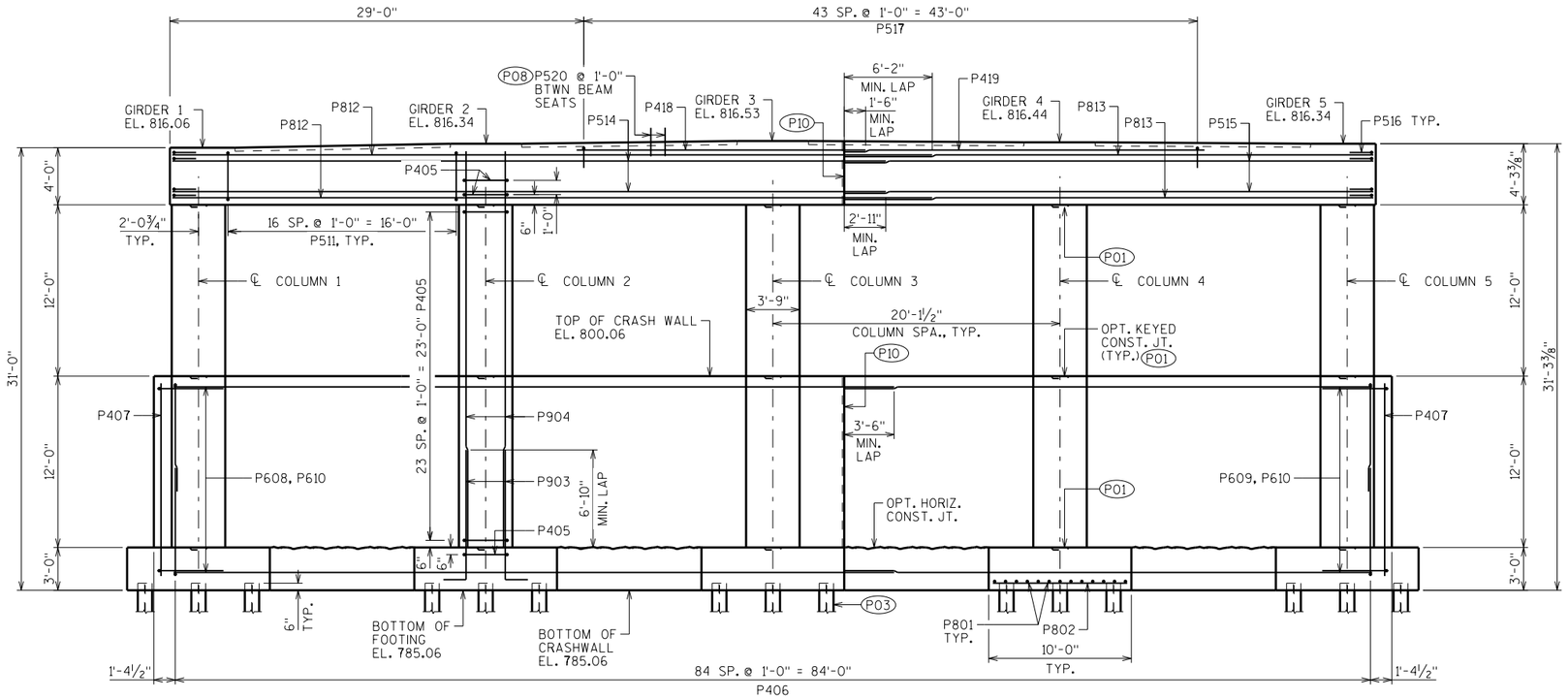
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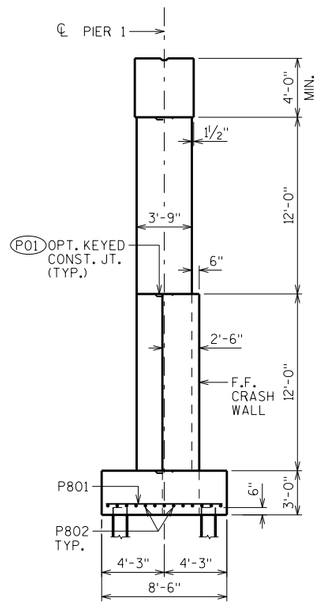
STATE PROJECT NUMBER

1146-75-71



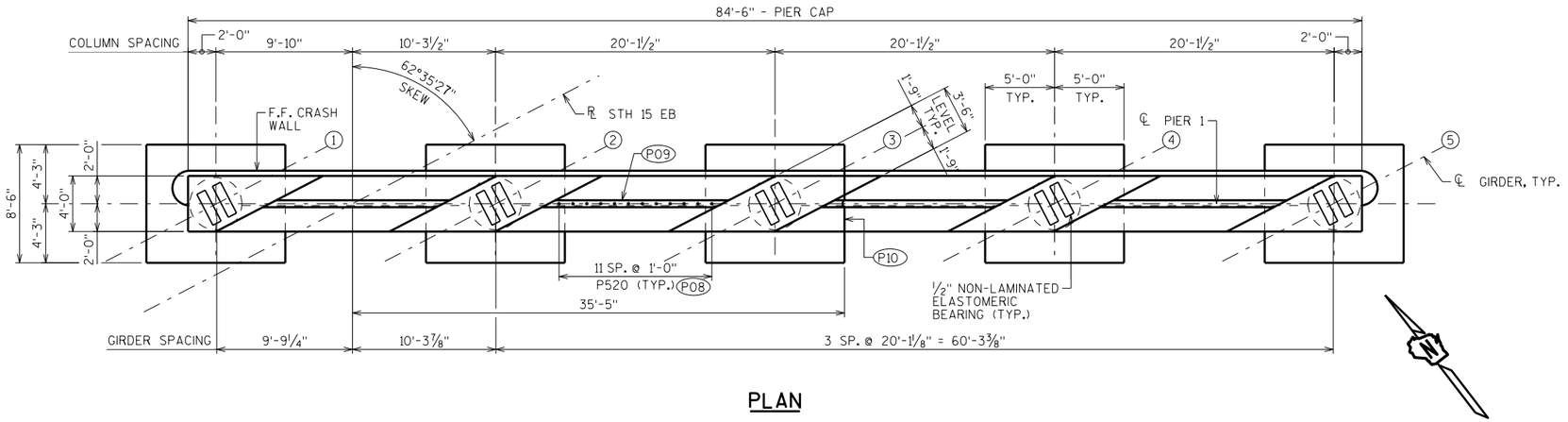
ELEVATION

(LOOKING NORTHEAST - UPSTATION)



SIDE VIEW

(LOOKING NORTHWEST)



PLAN

P01 1'-3" x 1'-3" x 2" CONST. JOINT FORMED BY BEVELED KEYWAY.

P03 SUPPORT PIER ON HP 12 x 53 STEEL PILING, ESTIMATED 15'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

P08 P520 BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

P09 KEYED CONST. JOINT-FORMED BY BEVELED 2 x 6 BETWEEN BEAM SEATS.

P10 VERT. CONST. JOINT FORMED BY BEVELED 2 x 6.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

PIER 1

SHEET 14

240

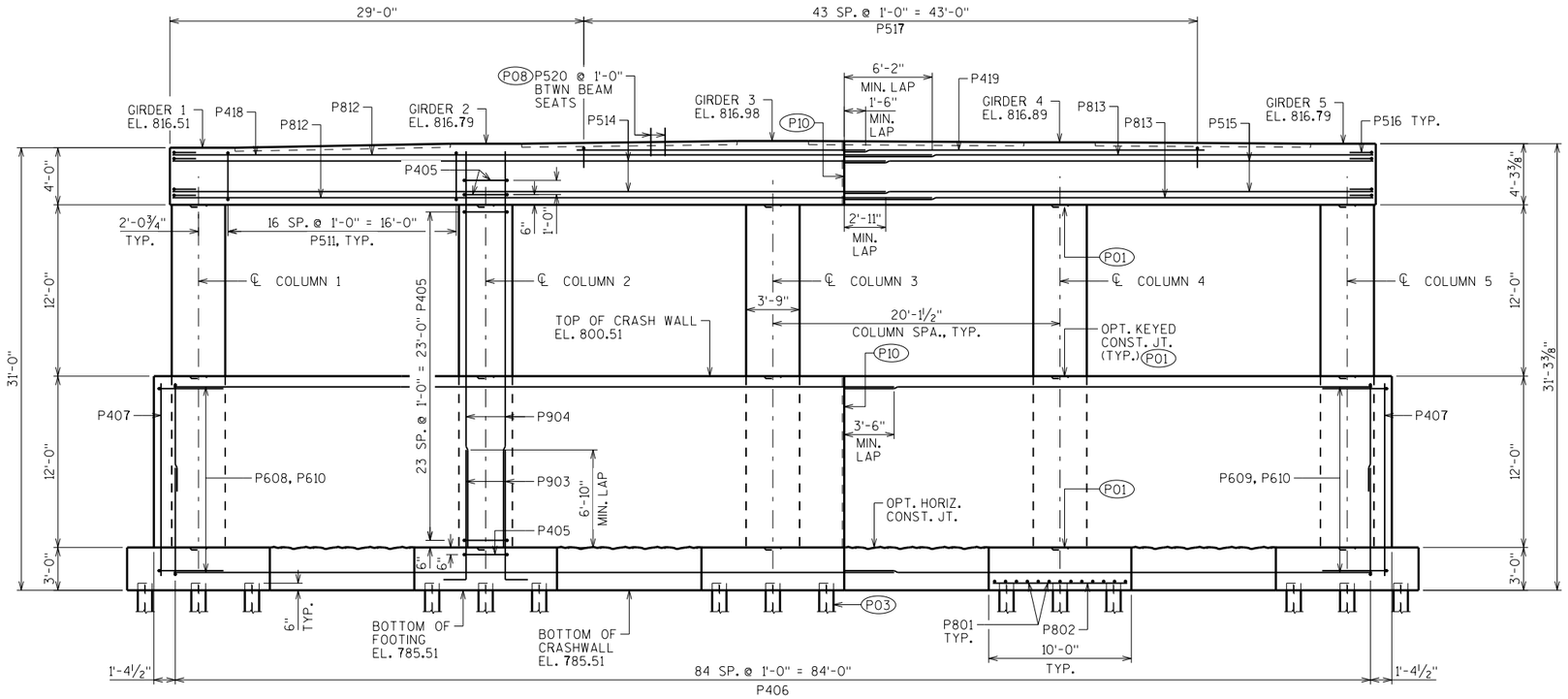
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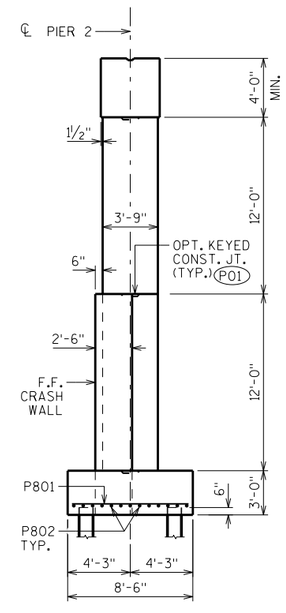
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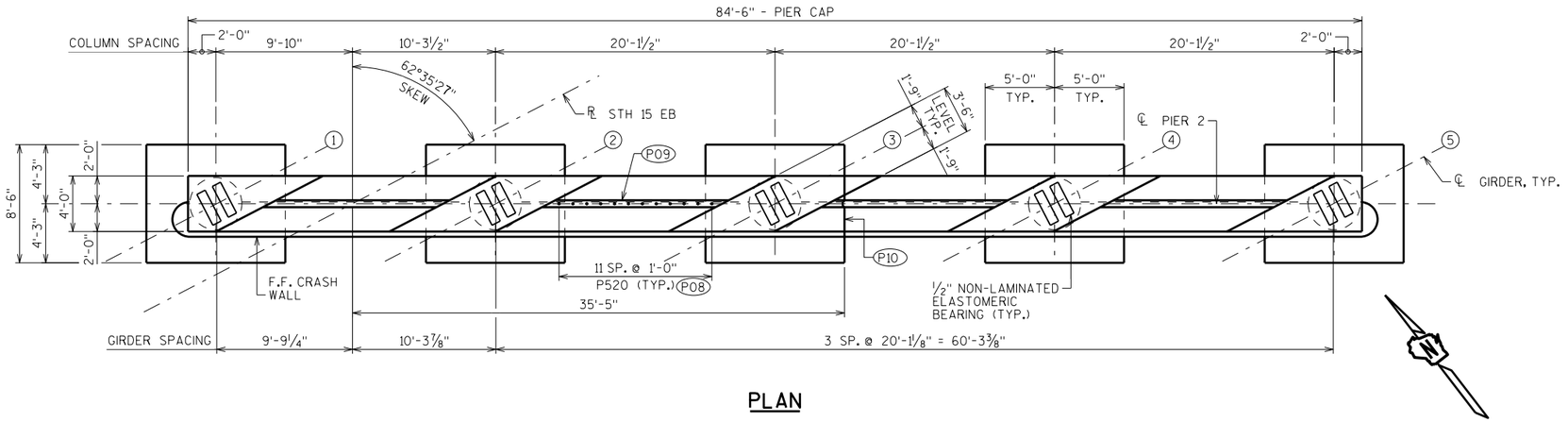
ELEVATION

(LOOKING NORTHEAST - UPSTATION)



SIDE VIEW

(LOOKING NORTHWEST)



PLAN

P01 1'-3" x 1'-3" x 2" CONST. JOINT FORMED BY BEVELED KEYWAY.

P03 SUPPORT PIER ON HP 12 x 53 STEEL PILING, ESTIMATED 10'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

P08 P520 BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

P09 KEYED CONST. JOINT-FORMED BY BEVELED 2 x 6 BETWEEN BEAM SEATS.

P10 VERT. CONST. JOINT FORMED BY BEVELED 2 x 6.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

PIER 2

SHEET 15

241

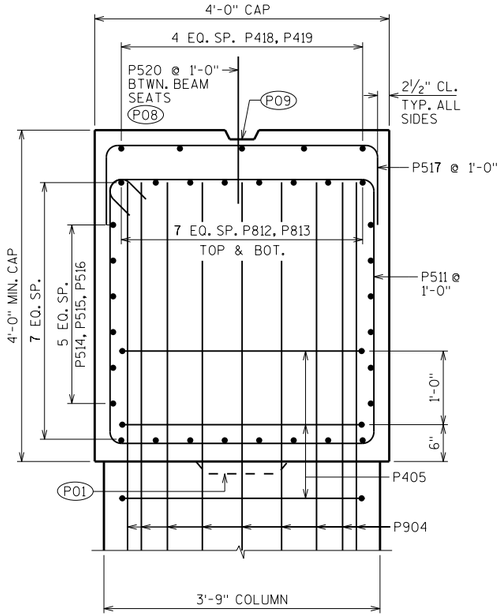
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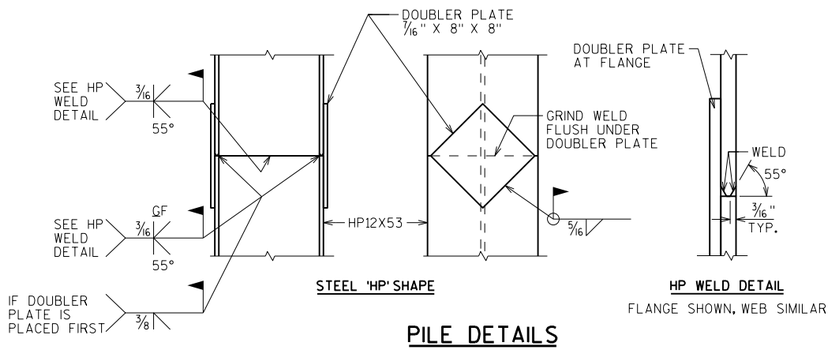
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STATE PROJECT NUMBER

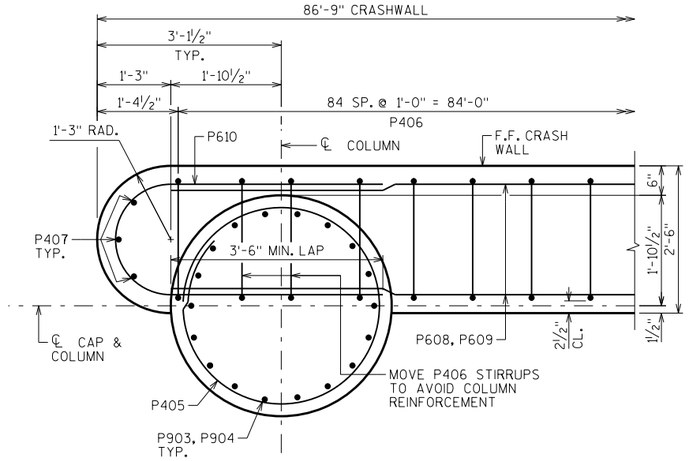
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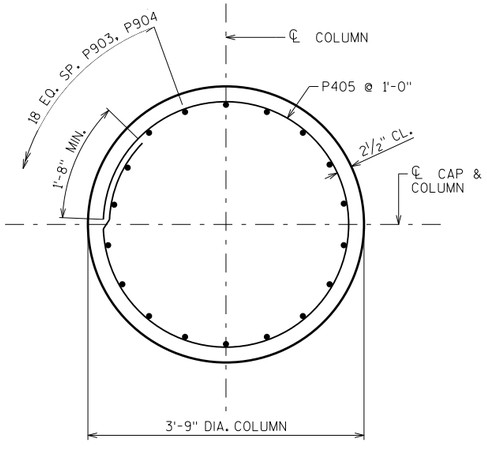
SECTION THRU CAP



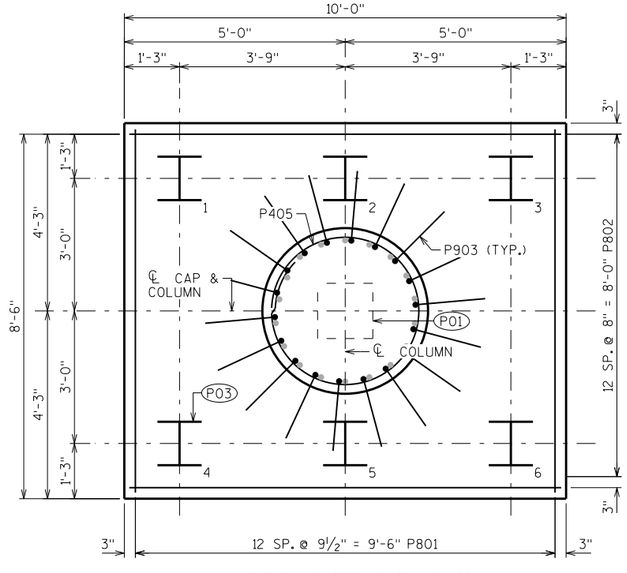
PILE DETAILS



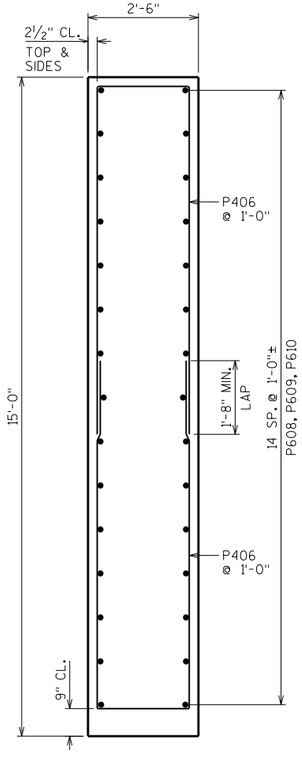
CRASHWALL END DETAIL



SECTION THRU COLUMN



TYPICAL FOOTING PLAN



SECTION THRU CRASH WALL

P01 1'-3" x 1'-3" x 2" CONST. JOINT FORMED BY BEVELED KEYWAY.

P03 SUPPORT PIER ON HP 12 x 53 STEEL PILING, ESTIMATED 15'-0" LONG AT PIER 1 & 10'-0" LONG AT PIER 2 WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

P08 P520 BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

P09 KEYED CONST. JOINT-FORMED BY BEVELED 2 x 6 BETWEEN BEAM SEATS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

PIER DETAILS 1

SHEET 16

242

SCALE = 5.00

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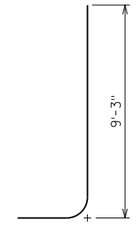
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STATE PROJECT NUMBER
1146-75-71

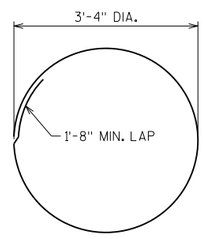
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

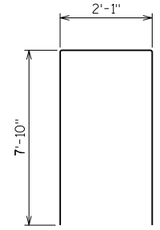
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
P801		130	8'-2"			FOOTING-BOT.-TRANS.
P802		130	9'-8"			FOOTING-BOT.-LONGIT.
P903		180	10'-7"	X		FOOTING/COLUMN-DOWELS-VERT.
P904		180	27'-9"			COLUMN-VERT.
P405		270	12'-3"	X		COLUMN-TIES-HORIZ.
P406		340	17'-7"	X		CRASHWALL-VERT.
P407		12	14'-0"			CRASHWALL-VERT.-ENDS
P608		60	50'-9"			CRASHWALL-HORIZ.
P609		60	37'-2"			CRASHWALL-HORIZ.
P610		60	10'-1"	X		CRASHWALL-HORIZ.-ENDS
P511		136	15'-0"	X		CAP-STIRRUPS-VERT.
P812		32	53'-3"			CAP-BOT.&TOP-HORIZ.
P813		32	37'-1"			CAP-BOT.&TOP-HORIZ.
P514		24	50'-0"			CAP-SIDES-HORIZ.
P515		24	37'-1"			CAP-SIDES-HORIZ.
P516		24	6'-9"	X		CAP-ENDS-HORIZ.
P517		88	6'-4"	X		CAP-VERT.
P418		10	20'-3"			CAP-TOP-HORIZ.
P419		10	25'-3"			CAP-TOP-HORIZ.
P520		96	2'-0"			CAP-DOWELS-VERT.



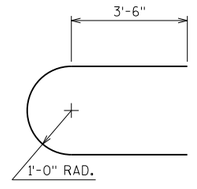
P903



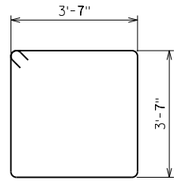
P405



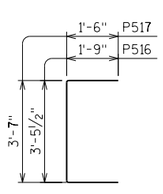
P406



P610



P511



P516, P517

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8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

PIER DETAILS 2

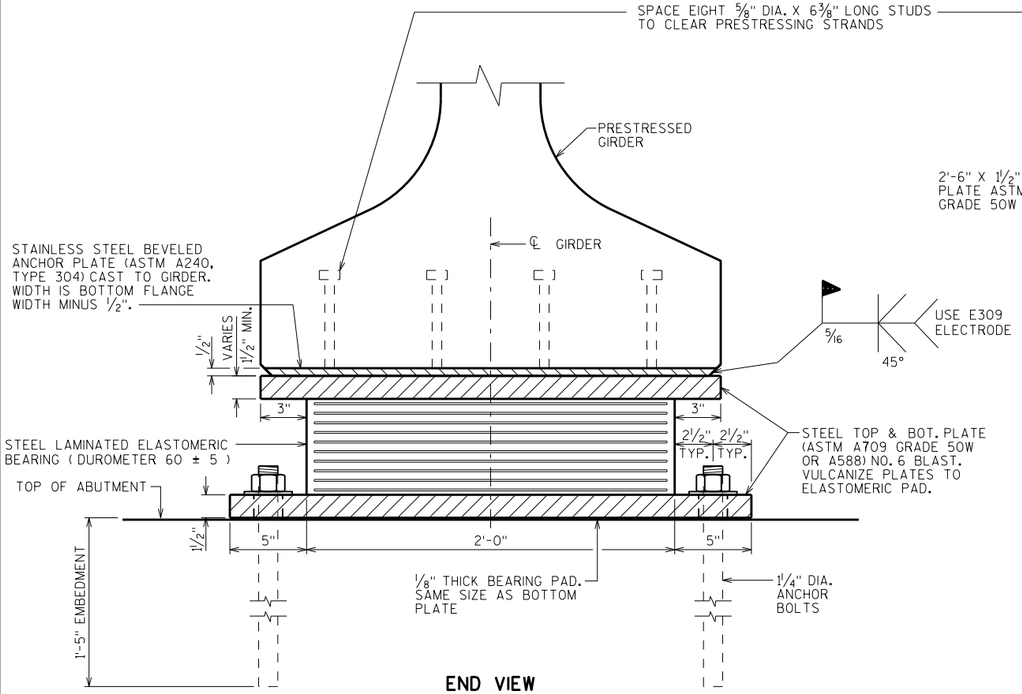
SHEET 17

243

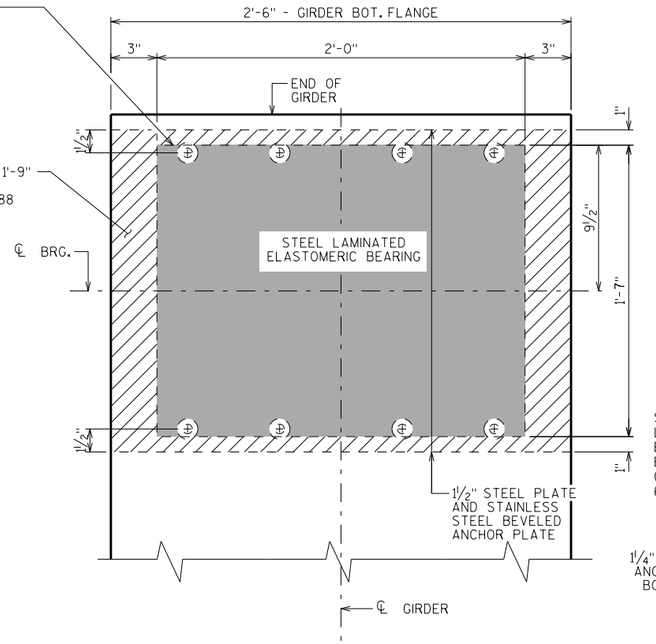
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STATE PROJECT NUMBER

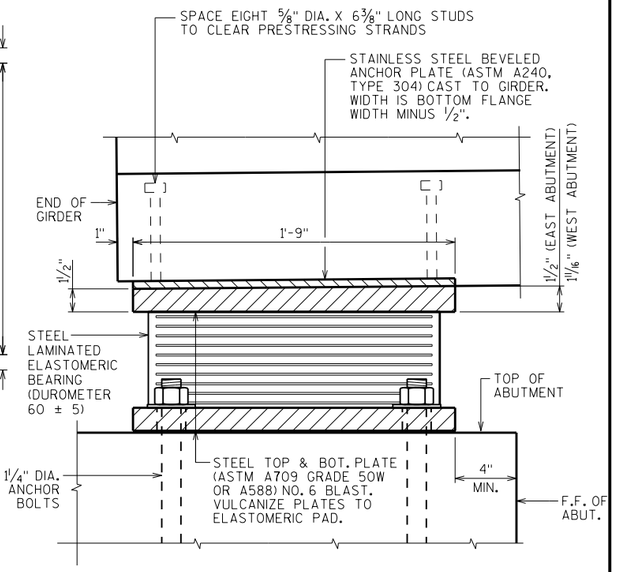
1146-75-71



END VIEW

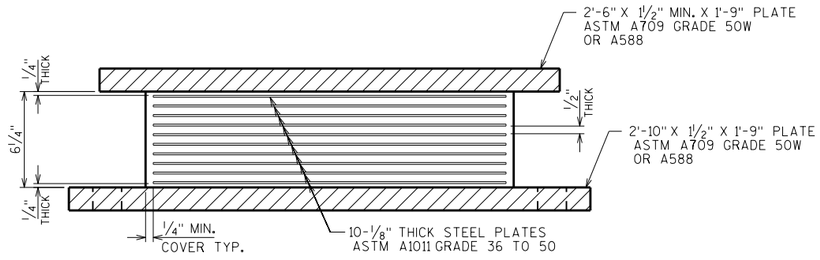


PLAN SHOWING TOP PLATE



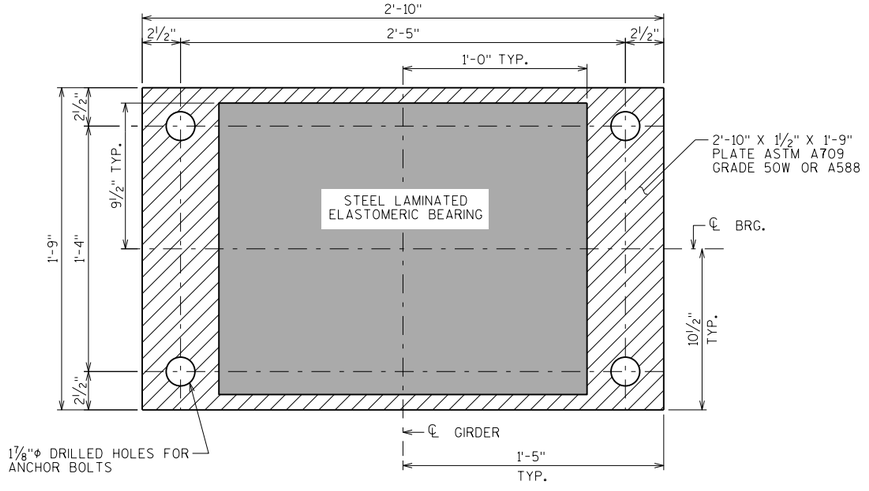
ELEVATION VIEW

(SHOWING BEVELED TOP PLATE AT WEST ABUTMENT)



SECTION THRU ELASTOMERIC BEARING

(SHOWING END VIEW)



PLAN SHOWING BOTTOM PLATE

NOTES

ALL BEARINGS ARE SYMMETRICAL ABOUT ℄ OF GIRDER AND ℄ OF BEARING

BEARINGS SHALL NOT BE PLACED AT A TEMPERATURE GREATER THAN 85° F.

ALL MATERIAL USED FOR BEARINGS SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING PADS ELASTOMERIC LAMINATED", EACH.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 36, OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. PROJECT ANCHORS BOLTS 3 3/4" ABOVE THE TOP OF CONCRETE.

CHAMFER ANCHOR BOLTS PRIOR TO THREADING

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

ABUTMENT BEARING DETAILS

SHEET 18

244

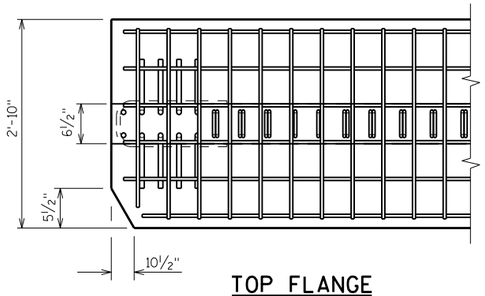
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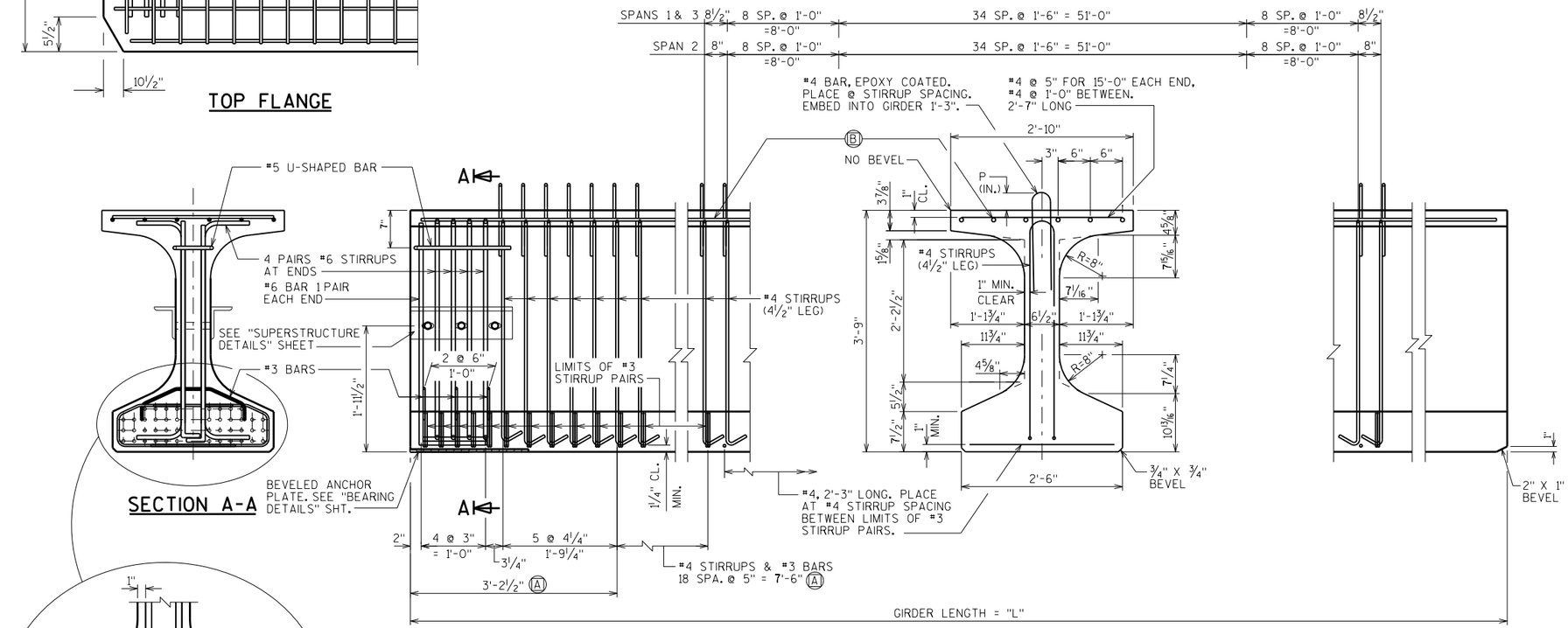
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STATE PROJECT NUMBER

1146-75-71



TOP FLANGE



SECTION A-A

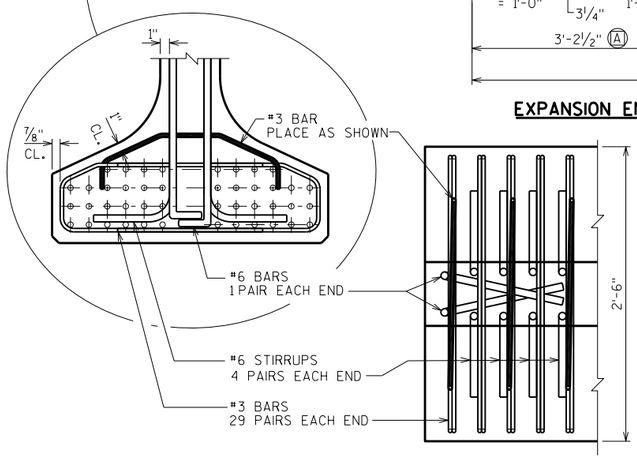
EXPANSION END

FIXED END

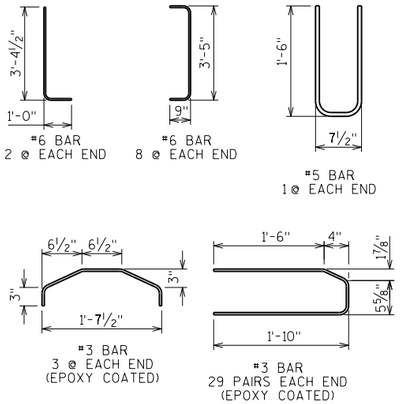
SIDE VIEW & TYPICAL SECTION IN SPAN

Ⓐ DETAIL TYP. AT EACH END

Ⓑ 6 #4 BARS, FULL LENGTH, MIN. LAP = 1'-8"



BOTTOM FLANGE



NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER OR EPOXY TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS. SEE SECT. 503.3.3 OF STANDARD SPECIFICATIONS FOR GUIDANCE.

STANDS SHALL BE FLUSH WITH END OF GIRDERS. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, GRADE 2, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A1064 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE (0.6" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.

✳ MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.)									CONC. STRGTH. f'c (p.s.i.)	"P" 1ST ⅓ OF GIRDER	"P" MID ⅓ OF GIRDER	"P" END ⅓ OF GIRDER	DIA. OF STRAND (IN.)	DRAPED PATTERN						UNDRAPED PATTERN	
			1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10						TOTAL NO. OF STRANDS	f'ci (P.S.I.) ✳	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	TOTAL NO. OF STRANDS	f'ci (P.S.I.) ✳
1	1, 5	89'-10"	0.38	0.73	1.00	1.16	1.22	1.16	0.98	0.71	0.37	8,000	7½"	7½"	7½"	0.6	26	6,400	41	13.25	16.25	4		
1	2-4	89'-10"	0.45	0.84	1.16	1.36	1.42	1.35	1.15	0.84	0.44	8,000	7½"	7½"	7½"	0.6	26	6,400	41	13.25	16.25	4		
2	1, 5	89'-9"	0.38	0.72	0.99	1.16	1.22	1.16	0.99	0.72	0.38	8,000	7½"	7½"	7½"	0.6	24	6,400	41	13.25	16.25	4		
2	2-4	89'-9"	0.45	0.85	1.17	1.37	1.44	1.37	1.17	0.85	0.45	8,000	7½"	7½"	7½"	0.6	24	6,400	41	13.25	16.25	4		
3	1, 5	89'-10"	0.37	0.71	0.98	1.16	1.22	1.16	1.00	0.73	0.39	8,000	7½"	7½"	7½"	0.6	26	6,400	41	13.25	16.25	4		
3	2-4	89'-10"	0.44	0.84	1.15	1.35	1.42	1.36	1.16	0.85	0.45	8,000	7½"	7½"	7½"	0.6	26	6,400	41	13.25	16.25	4		

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

45W" PRESTRESSED GIRDER DETAILS 1

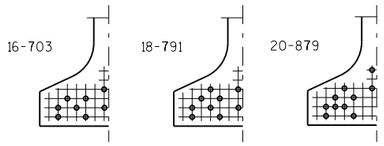
SHEET 19

245

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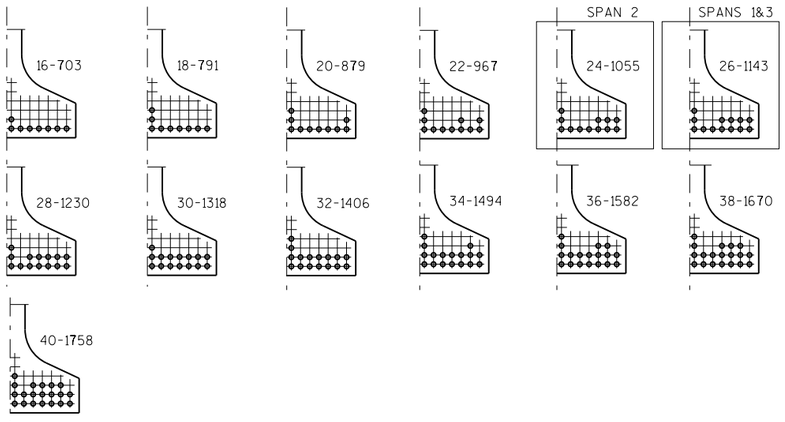
STATE PROJECT NUMBER

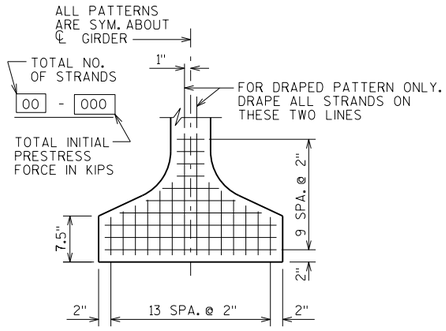
1146-75-71



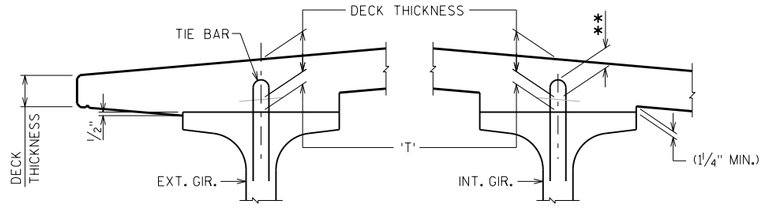
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6"Φ STRANDS





TYP. STRAND PATTERN



DECK HAUNCH DETAIL

IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

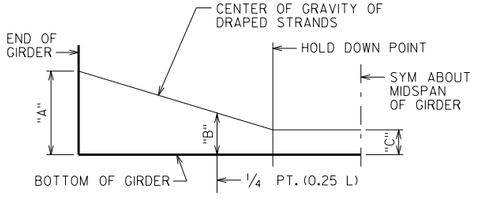
TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- DECK THICKNESS
= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 3" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".

ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6"Φ STRANDS



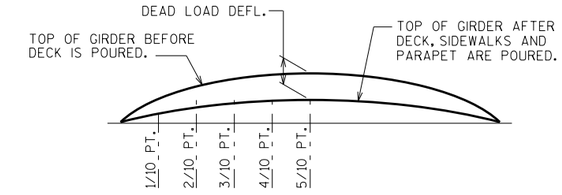
DRAPED STRAND PROFILE

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

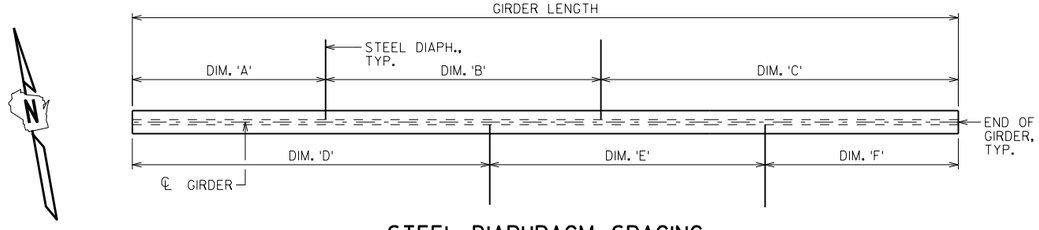
SPAN	CAMBER (IN.) *
1&3	2.32
2	2.04

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.



DEAD LOAD DEFLECTION DIAGRAM



STEEL DIAPHRAGM SPACING

STEEL DIAPHRAGMS, MEASUREMENTS ALONG ℄ OF GIRDER, FROM ENDS OF GIRDER.

	SPAN 1					
	DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'	DIM. 'E'	DIM. 'F'
GIR. 1	N/A	N/A	N/A	38'-10½"	29'-11"	21'-0½"
GIR. 2	21'-0½"	29'-11"	38'-10½"	38'-10½"	29'-11"	21'-0½"
GIR. 3	21'-0½"	29'-11"	38'-10½"	38'-10½"	29'-11"	21'-0½"
GIR. 4	21'-0½"	29'-11"	38'-10½"	38'-10½"	29'-11"	21'-0½"
GIR. 5	21'-0½"	29'-11"	38'-10½"	N/A	N/A	N/A

	SPAN 2					
	DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'	DIM. 'E'	DIM. 'F'
GIR. 1	N/A	N/A	N/A	38'-10"	29'-11"	21'-0"
GIR. 2	21'-0"	29'-11"	38'-10"	38'-10"	29'-11"	21'-0"
GIR. 3	21'-0"	29'-11"	38'-10"	38'-10"	29'-11"	21'-0"
GIR. 4	21'-0"	29'-11"	38'-10"	38'-10"	29'-11"	21'-0"
GIR. 5	21'-0"	29'-11"	38'-10"	N/A	N/A	N/A

	SPAN 3					
	DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'	DIM. 'E'	DIM. 'F'
GIR. 1	N/A	N/A	N/A	21'-0½"	29'-11"	38'-10½"
GIR. 2	38'-10½"	29'-11"	21'-0½"	21'-0½"	29'-11"	38'-10½"
GIR. 3	38'-10½"	29'-11"	21'-0½"	21'-0½"	29'-11"	38'-10½"
GIR. 4	38'-10½"	29'-11"	21'-0½"	21'-0½"	29'-11"	38'-10½"
GIR. 5	38'-10½"	29'-11"	21'-0½"	N/A	N/A	N/A

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

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45W" PRESTRESSED GIRDER DETAILS 2

SHEET 20

246

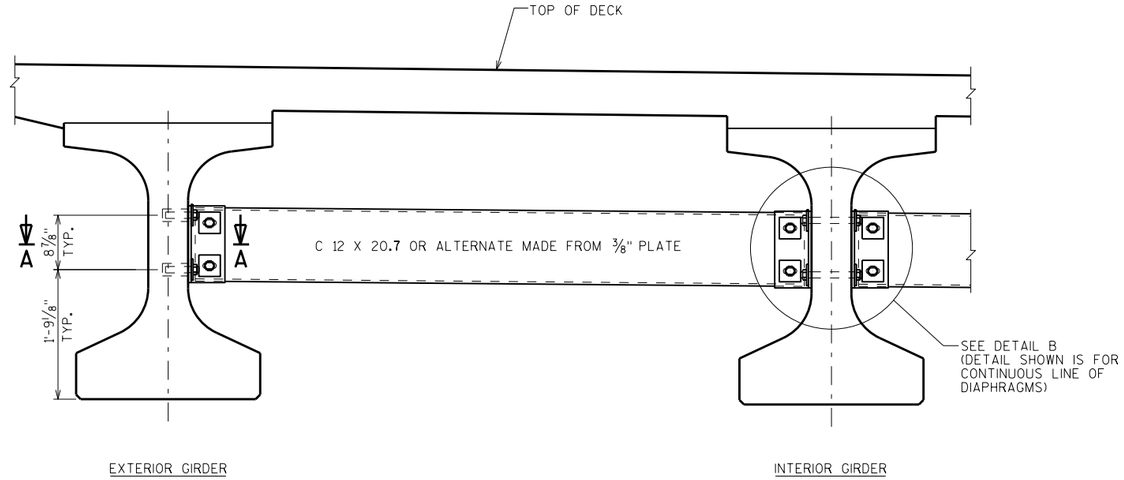
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STATE PROJECT NUMBER

1146-75-71



PART TRANSVERSE SECTION AT DIAPHRAGM

NOTES

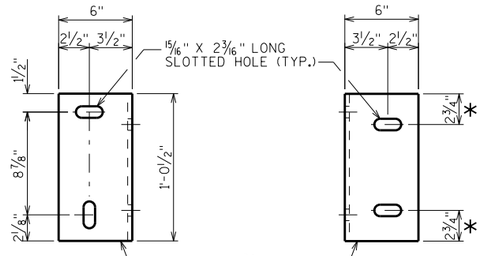
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-44-289", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

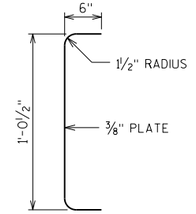
ALL DIAPHRAGM MATERIAL INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS ¼ TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.

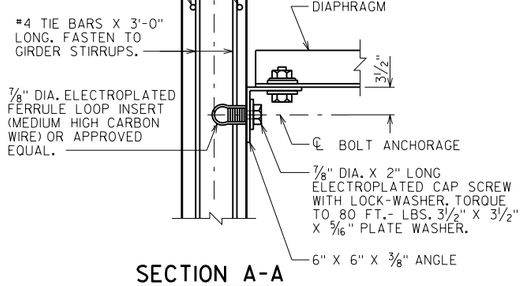


DIAPHRAGM SUPPORT

* 2½" FOR ALTERNATE PLATE DIAPHRAGM

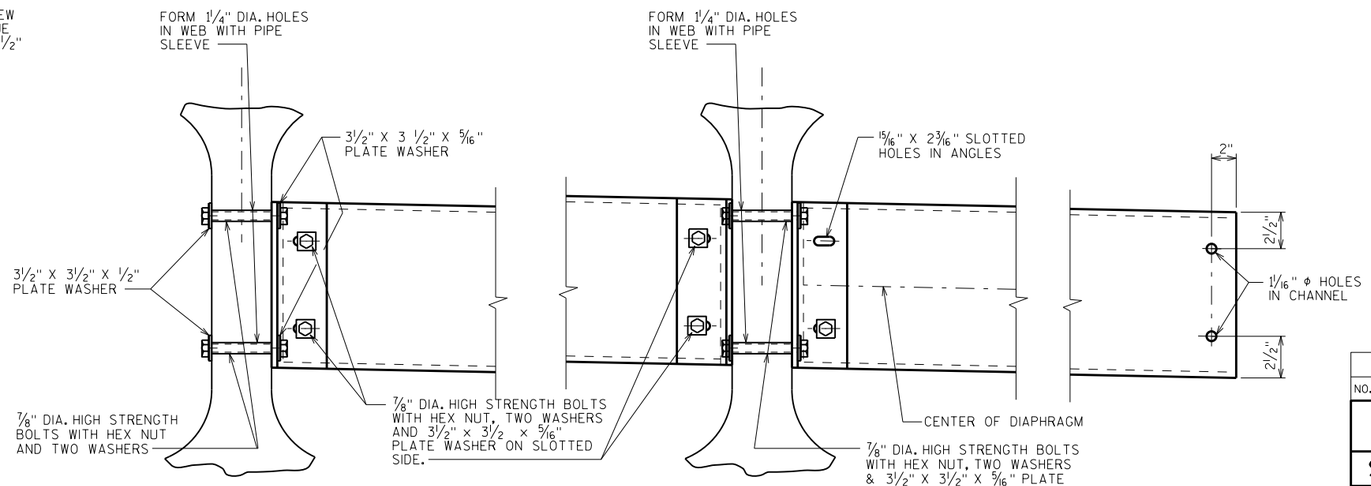


SECTION THRU ALTERNATE DIAPHRAGM



SECTION A-A

(FOR EXTERIOR ATTACHMENT)



(FOR STAGGERED DIAPHRAGM)

DETAIL B

(FOR CONTINUOUS LINE OF DIAPHRAGMS)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

STEEL DIAPHRAGM

SHEET 21

247

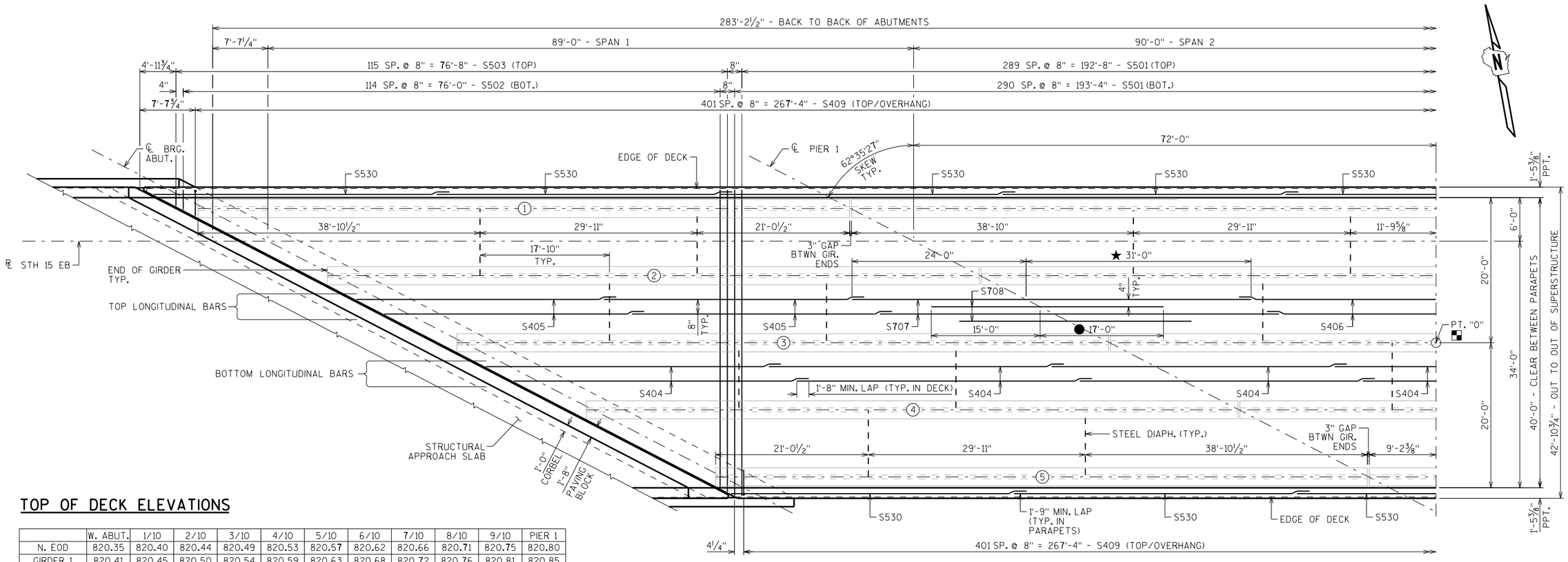
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STATE PROJECT NUMBER

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HALF PLAN

TOP OF DECK ELEVATIONS

	W. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	PIER 1
N. EOD	820.35	820.40	820.44	820.49	820.53	820.57	820.62	820.66	820.71	820.75	820.80
GIRDER 1	820.41	820.45	820.50	820.54	820.59	820.63	820.68	820.72	820.76	820.81	820.85
REF. LINE	820.54	820.59	820.63	820.67	820.72	820.76	820.81	820.85	820.90	820.94	820.99
GIRDER 2	820.68	820.73	820.77	820.82	820.86	820.90	820.95	820.99	821.04	821.08	821.13
CROWN	820.90	820.94	820.99	821.03	821.08	821.12	821.16	821.21	821.25	821.30	821.34
GIRDER 3	820.88	820.92	820.97	821.01	821.05	821.10	821.14	821.19	821.23	821.28	821.32
GIRDER 4	820.78	820.83	820.87	820.91	820.96	821.00	821.05	821.09	821.14	821.18	821.23
GIRDER 5	820.68	820.73	820.77	820.82	820.86	820.91	820.95	821.00	821.04	821.09	821.13
S. EOD	820.68	820.73	820.77	820.81	820.86	820.90	820.95	820.99	821.04	821.08	821.13

	PIER 1	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	PIER 2
N. EOD	820.80	820.84	820.89	820.93	820.98	821.02	821.07	821.11	821.16	821.20	821.25
GIRDER 1	820.85	820.90	820.94	820.99	821.03	821.08	821.12	821.17	821.21	821.26	821.30
REF. LINE	820.99	821.03	821.08	821.12	821.17	821.21	821.26	821.30	821.35	821.39	821.44
GIRDER 2	821.13	821.17	821.22	821.26	821.31	821.35	821.40	821.44	821.49	821.53	821.58
CROWN	821.34	821.39	821.43	821.48	821.52	821.57	821.61	821.66	821.70	821.75	821.79
GIRDER 3	821.32	821.37	821.41	821.46	821.50	821.55	821.59	821.64	821.68	821.73	821.77
GIRDER 4	821.23	821.27	821.32	821.36	821.41	821.45	821.50	821.54	821.59	821.63	821.68
GIRDER 5	821.13	821.17	821.22	821.26	821.31	821.35	821.40	821.44	821.49	821.53	821.58
S. EOD	821.13	821.17	821.22	821.26	821.31	821.35	821.40	821.44	821.49	821.53	821.58

	PIER 2	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	E. ABUT.
N. EOD	821.25	821.29	821.34	821.38	821.42	821.47	821.51	821.56	821.60	821.65	821.69
GIRDER 1	821.30	821.35	821.39	821.44	821.48	821.53	821.57	821.61	821.66	821.70	821.75
REF. LINE	821.44	821.48	821.53	821.57	821.61	821.66	821.70	821.75	821.79	821.84	821.88
GIRDER 2	821.58	821.62	821.67	821.71	821.76	821.80	821.84	821.89	821.93	821.98	822.02
CROWN	821.79	821.84	821.88	821.93	821.97	822.01	822.06	822.10	822.15	822.19	822.23
GIRDER 3	821.77	821.82	821.86	821.90	821.95	821.99	822.04	822.08	822.13	822.17	822.21
GIRDER 4	821.68	821.72	821.76	821.81	821.85	821.90	821.94	821.98	822.02	822.06	822.10
GIRDER 5	821.58	821.62	821.67	821.71	821.76	821.80	821.84	821.88	821.91	821.94	821.97
S. EOD	821.58	821.62	821.67	821.71	821.75	821.79	821.83	821.87	821.90	821.93	821.96

★ S707 TO EXTEND 31'-0" PAST ℄ PIER INTO SPAN 2. TYPICAL AT PIER 1 & 2.

● S708 TO EXTEND 17'-0" PAST ℄ PIER INTO SPAN 2. TYPICAL AT PIER 1 & 2.

■ ROTATE SUPERSTRUCTURE 180° ABOUT PT. "O" FOR SECOND HALF OF SUPERSTRUCTURE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

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SUPERSTRUCTURE PLAN

SHEET 22

248

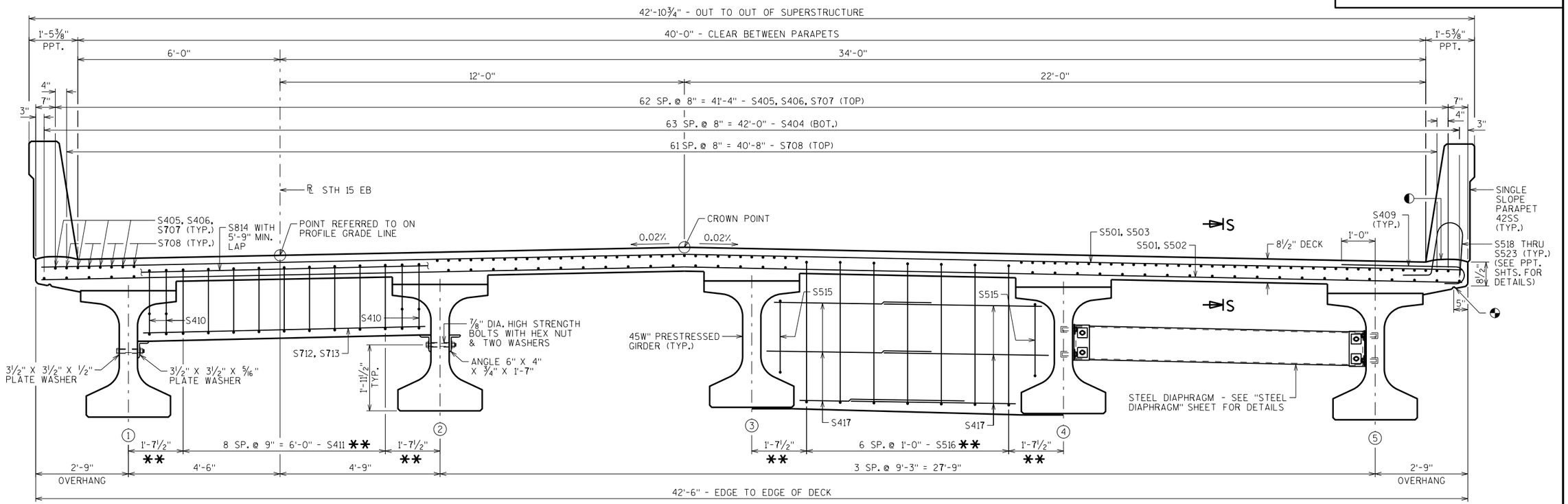
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8

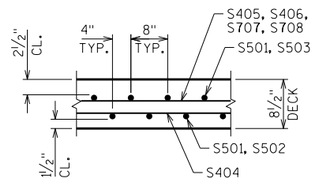
STATE PROJECT NUMBER

1146-75-71

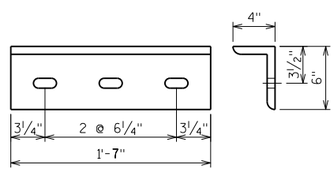


CROSS SECTION THRU BRIDGE

** DIMENSION IS TAKEN PERPENDICULAR TO ℄ GIRDERS



SECTION S-S



ANGLE

6" X 4" X ¾" X 1'-7"

PROVIDE 3½" X 3½" X 5⁄16" PLATE WASHERS AT ALL LOCATIONS EXCEPT AT EXTERIOR FACES OF EXTERIOR GIRDERS WHERE 3½" X 3½" X ½" PLATE WASHERS SHALL BE PROVIDED.

NOTES

ALL DIAPHRAGM SUPPORT HARDWARE SHALL BE INCIDENTAL TO "CONCRETE MASONRY BRIDGES".

DIAPHRAGM SUPPORT ANGLES SHALL BE ASTM A709 GRADE 36.

ALL DIAPHRAGM SUPPORT HARDWARE INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

STEEL DIAPHRAGM SUPPORT ANGLE TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS ¼ TURN. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.

◐ HORIZ. CONST. JOINT: STRIKE OFF AND LEAVE ROUGH AS SHOWN

◒ ¾" V-GROOVE. TERMINATE 2'-0" FROM F.F. OF ABUTS. V-GROOVES ARE REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

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SUPERSTRUCTURE CROSS SECTION

SHEET 23

249

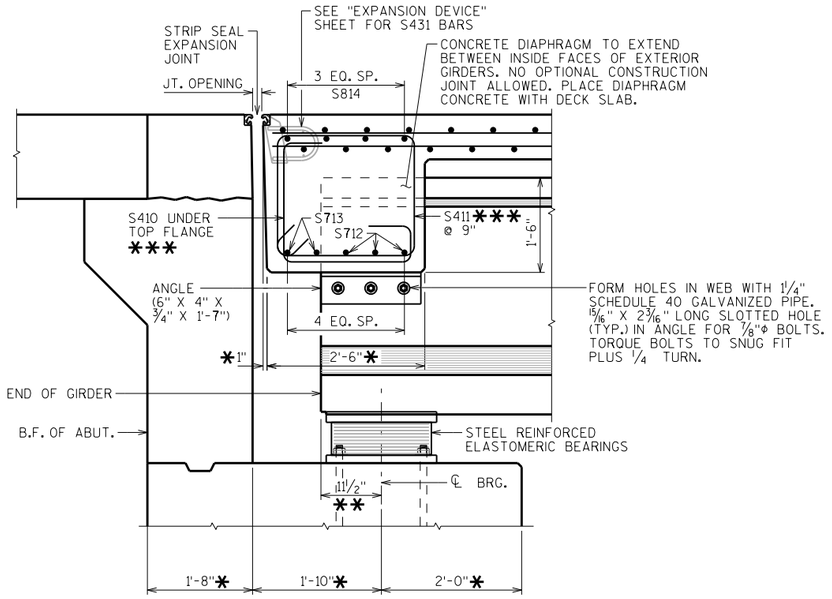
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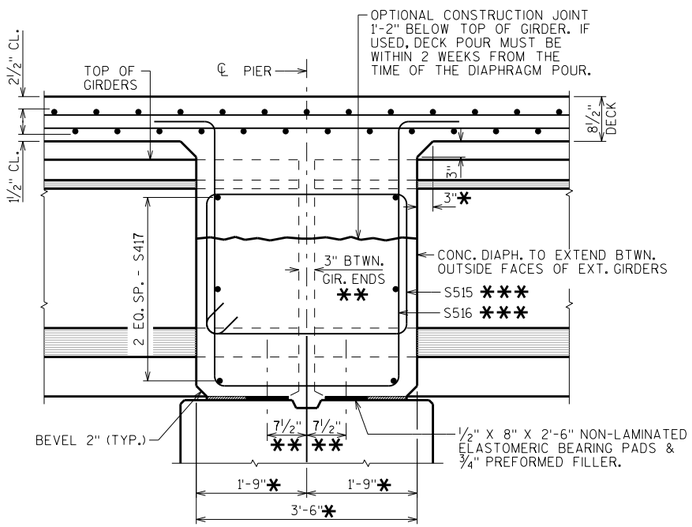
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STATE PROJECT NUMBER

1146-75-71



CROSS SECTION AT ABUT. DIAPHRAGMS
(EXPANSION)



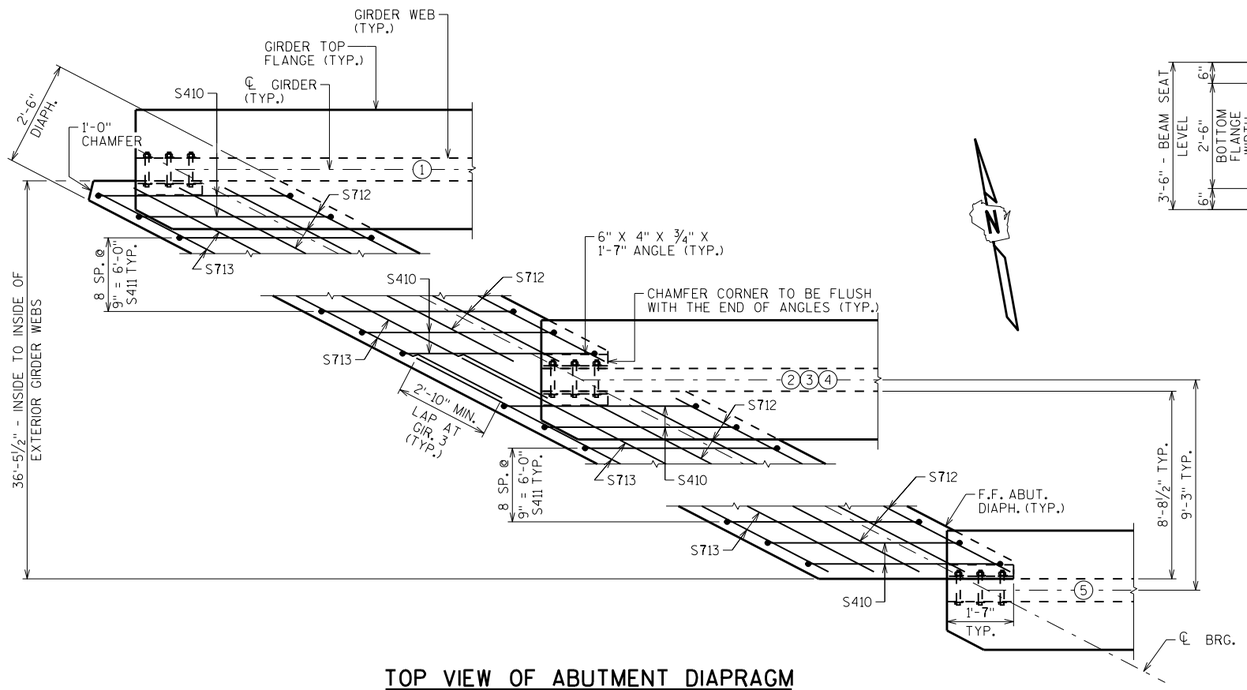
CROSS SECTION AT PIER DIAPHRAGMS
(FIXED)

PART LONGITUDINAL SECTION

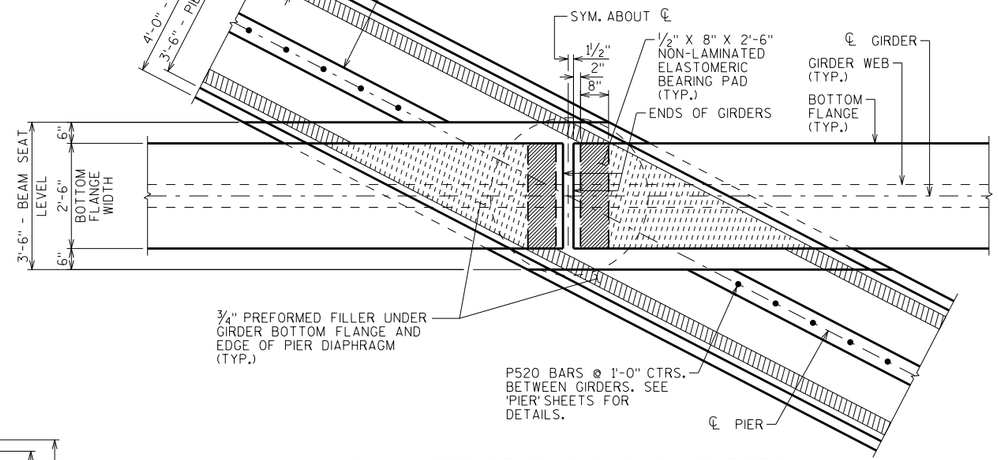
*DIMENSION IS TAKEN PERPENDICULAR TO ℄ SUBSTRUCTURE UNITS.

**DIMENSION IS TAKEN PARALLEL TO ℄ GIRDERS

***BARS PLACED PARALLEL TO ℄ GIRDERS & SPACED PERPENDICULAR TO ℄ GIRDERS



TOP VIEW OF ABUTMENT DIAPRAGM
S814 BARS NOT SHOWN FOR CLARITY



PLAN VIEW OF DIAPHRAGMS AT PIERS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

SUPERSTRUCTURE DETAILS

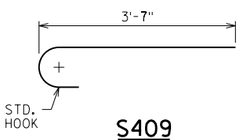
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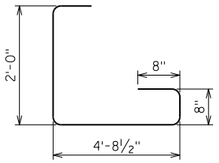
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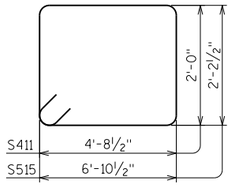
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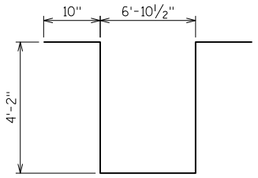
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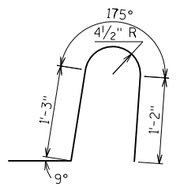
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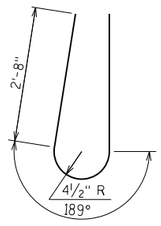
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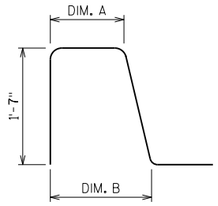
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S518

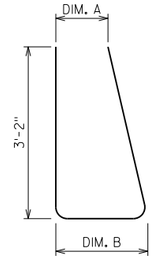


S524



S519, S520, S521
S522, S523

BAR MARK	DIM "A"	DIM. "B"
S519	8½"	11½"
S520	10"	1'-1½"
S521	1'-0"	1'-4½"
S522	1'-2"	1'-7½"
S523	1'-5"	1'-11½"



S525, S526, S527
S528, S529

BAR MARK	DIM "A"	DIM. "B"
S525	6"	10½"
S526	7"	1'-0"
S527	8½"	1'-3"
S528	9½"	1'-5½"
S529	11½"	1'-9"

STATE PROJECT NUMBER

1146-75-71

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S501	X	581	42'-2"			DECK-TOP&BOT.-HORIZ.-TRANS.
S502	X	230	22'-2"		⚠	DECK-BOT.-HORIZ.-TRANS.
S503	X	232	22'-2"		⚠	DECK-TOP-HORIZ.-TRANS.
S404	X	448	40'-8"			DECK-BOT.-HORIZ.-LONGIT.
S405	X	252	35'-10"			DECK-TOP-HORIZ.-LONGIT.-SPANS 1&3
S406	X	63	31'-4"			DECK-TOP-HORIZ.-LONGIT.-SPAN 2
S707	X	126	55'-0"			DECK-TOP-HORIZ.-LONGIT.-OVER PIERS
S708	X	124	32'-0"			DECK-TOP-HORIZ.-LONGIT.-OVER PIERS
S409	X	804	4'-1"	X		DECK-TOP-HORIZ.-TRANS.-OVERHANG
S410	X	32	8'-5"	X		ABUT. DIAPH.-VERT.-UNDER GIR. FLANGES
S411	X	72	13'-11	X		ABUT. DIAPH.-VERT.-BETWEEN GIRS.
S712	X	24	18'-2"			ABUT. DIAPH.-BOT.-HORIZ.
S713	X	8	40'-8"			ABUT. DIAPH.-BOT.-HORIZ.
S814	X	24	34'-6"			ABUT. DIAPH.-TOP-HORIZ.
S515	X	16	18'-10	X		PIER DIAPH.-VERT.-UNDER GIR. FLANGES
S516	X	56	16'-5"	X		PIER DIAPH.-VERT.-BETWEEN GIRS.
S417	X	96	10'-0"			PIER DIAPH.-HORIZ.-BETWEEN GIRS.
S518	X	804	4'-5"	X		PARAPETS/DECK-VERT.
S519	X	4	4'-6"	X		PARAPETS/DECK-VERT.-ENDS
S520	X	4	4'-8"	X		PARAPETS/DECK-VERT.-ENDS
S521	X	4	4'-11"	X		PARAPETS/DECK-VERT.-ENDS
S522	X	4	5'-1"	X		PARAPETS/DECK-VERT.-ENDS
S523	X	4	5'-4"	X		PARAPETS/DECK-VERT.-ENDS
S524	X	804	6'-8"	X		PARAPETS-VERT.
S525	X	4	7'-0"	X		PARAPETS-VERT.-ENDS
S526	X	4	7'-2"	X		PARAPETS-VERT.-ENDS
S527	X	4	7'-5"	X		PARAPETS-VERT.-ENDS
S528	X	4	7'-8"	X		PARAPETS-VERT.-ENDS
S529	X	4	7'-11"	X		PARAPETS-VERT.-ENDS
S530	X	112	41'-0"			PARAPETS-HORIZ.
S431	X	16	20'-0"			EXPANSION DEVICE-HORIZ.-BETWEEN GIRS.

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
S502	2 SERIES OF 115	2'-5" TO 41'-10"
S503	2 SERIES OF 116	2'-3" TO 42'-0"

BUNDLE AND TAG EACH SERIES SEPARATELY.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

SUPERSTRUCTURE BAR DETAILS

SHEET 25

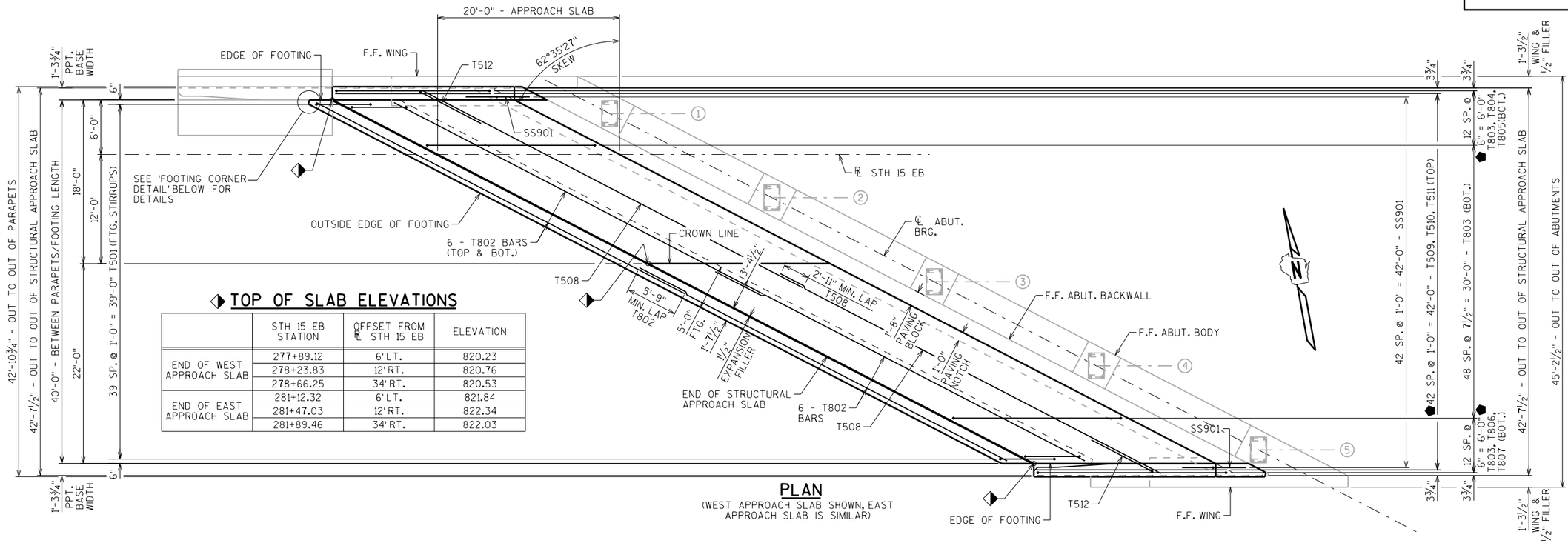
251

SCALE = 7.00

STATE PROJECT NUMBER

1146-75-71

⬟ SEE "CROSS SECTION THRU APPROACH SLAB" DETAIL ON THIS SHEET FOR T803, T804, T805, T806, T807, T509, T510, & T511 BAR LOCATIONS.

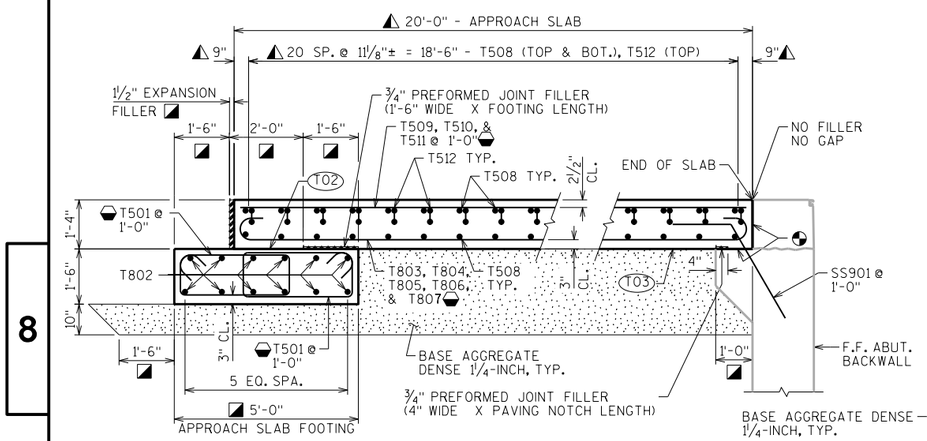


◆ TOP OF SLAB ELEVATIONS

	STH 15 EB STATION	OFFSET FROM ℄ STH 15 EB	ELEVATION
END OF WEST APPROACH SLAB	277+89.12	6' LT.	820.23
	278+23.83	12' RT.	820.76
	278+66.25	34' RT.	820.53
END OF EAST APPROACH SLAB	281+12.32	6' LT.	821.84
	281+47.03	12' RT.	822.34
	281+89.46	34' RT.	822.03

PLAN

(WEST APPROACH SLAB SHOWN, EAST APPROACH SLAB IS SIMILAR)



SECTION THRU APPROACH SLAB

(T02) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE LENGTH OF THE FOOTING.

(T03) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE LENGTH OF THE SUBGRADE.

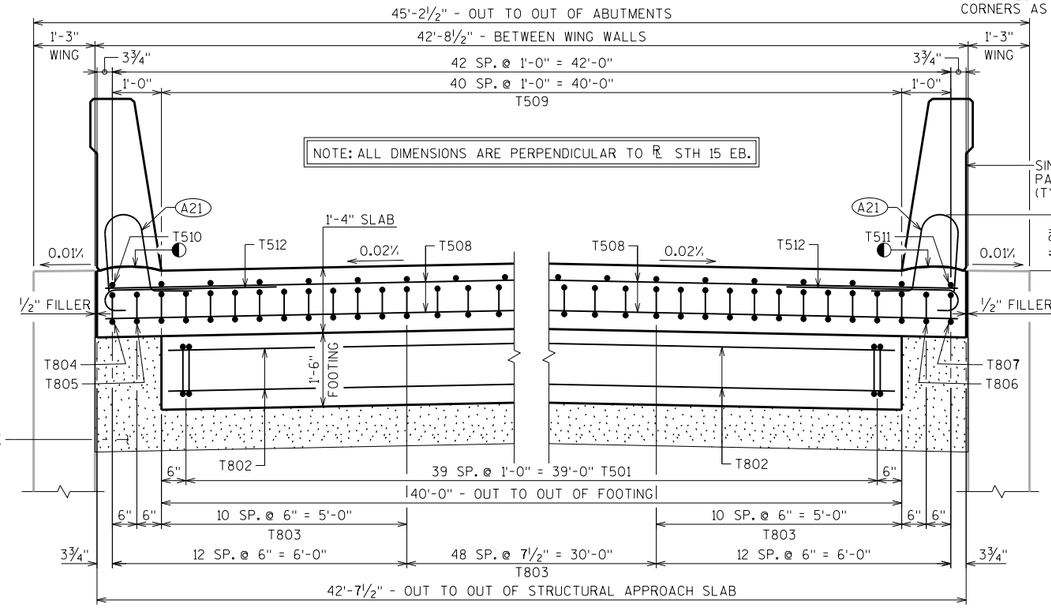
(A21) FOR PPT. BARS & DIMENSIONS SEE PARAPET SHEET.

◆ APPLY PROTECTIVE SURFACE TREATMENT TO PAVING NOTCH SURFACES PRIOR TO POURING STRUCTURAL APPROACH SLAB.

◪ MEASURED NORMAL TO ABUTMENT

◭ MEASURED PARALLEL TO ℄ STH 15 EB BARS PLACED ALONG SKEW

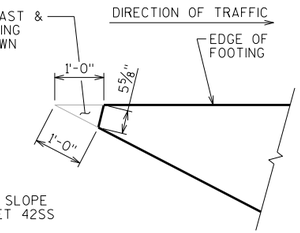
◒ BARS PLACED PARALLEL TO ℄ STH 15 EB & SPACED PERPENDICULAR TO ℄ STH 15 EB



CROSS SECTION THRU APPROACH SLAB

(LOOKING EAST - WEST APPROACH SLAB SHOWN, EAST APPROACH SLAB IS SIMILAR)

◐ HORIZ. CONST. JOINT: STRIKE OFF AND LEAVE ROUGH AS SHOWN



FOOTING CORNER DETAIL

(TYPICAL AT SOUTHEAST AND NORTHWEST FOOTING CORNERS)

NOTES

ALL LONGITUDINAL BARS TO BE PLACED PARALLEL TO ℄ STH 15 EB

ALL TRANSVERSE BARS TO BE PLACED ALONG THE SKEW

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

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STRUCTURAL APPROACH SLAB

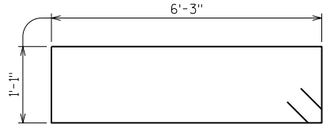
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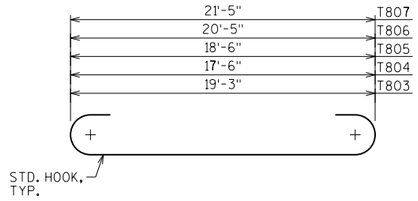
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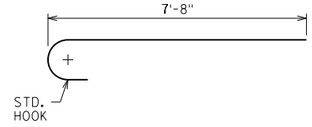
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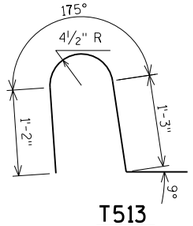
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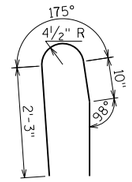
T803, T804, T805, T806, T807



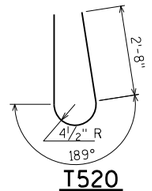
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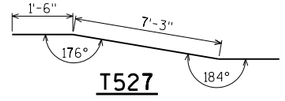
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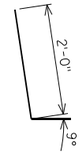
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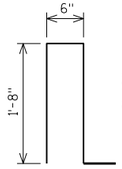
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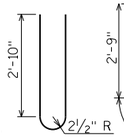
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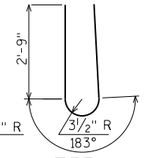
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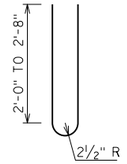
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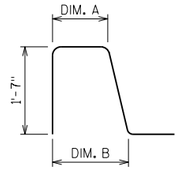
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T531

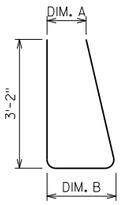


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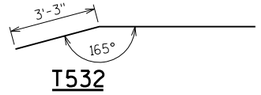
T514, T515, T516
T517, T518

BAR MARK	DIM "A"	DIM. "B"
T514	8½"	11½"
T515	10"	1'-1½"
T516	1'-0"	1'-4½"
T517	1'-2"	1'-7½"
T518	1'-5"	1'-11½"



T521, T522, T523
T524, T525

BAR MARK	DIM "A"	DIM. "B"
T521	6"	10½"
T522	7"	1'-0"
T523	8½"	1'-3"
T524	9½"	1'-5½"
T525	11½"	1'-9"



T532

STATE PROJECT NUMBER

1146-75-71

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQUIRED WEST SLAB	NO. REQUIRED EAST SLAB	LENGTH	BENT	BAR SERIES	LOCATION
T501	X	80	80	15'-4"	X		FOOTING-STIRRUP
T802	X	24	24	46'-0"			FOOTING-LONGIT.-TOP&BOT.
T803	X	69	69	21'-1"	X		SLAB-LONGIT.-BOT.
T804	X	1	1	19'-4"	X		SLAB-LONGIT.-BOT.
T805	X	1	1	20'-4"	X		SLAB-LONGIT.-BOT.
T806	X	1	1	22'-3"	X		SLAB-LONGIT.-BOT.
T807	X	1	1	23'-3"	X		SLAB-LONGIT.-BOT.
T508	X	42	42	47'-3"			SLAB-TRANS.-TOP&BOT.
T509	X	41	41	19'-3"			SLAB-LONGIT.-TOP
T510	X	1	1	17'-6"			SLAB-LONGIT.-TOP
T511	X	1	1	21'-4"			SLAB-LONGIT.-TOP
T512	X	42	42	8'-3"	X		SLAB-TRANS.-TOP-EDGES
T513	X	36	36	4'-5"	X		PARAPET/SLAB-VERT.
T514	X	2	2	4'-6"	X		PARAPET/SLAB-VERT.-CORNERS
T515	X	2	2	4'-8"	X		PARAPET/SLAB-VERT.-CORNERS
T516	X	2	2	4'-11"	X		PARAPET/SLAB-VERT.-CORNERS
T517	X	2	2	5'-1"	X		PARAPET/SLAB-VERT.-CORNERS
T518	X	2	2	5'-4"	X		PARAPET/SLAB-VERT.-CORNERS
T519	X	2	2	6'-8"	X		PARAPET/SLAB-VERT.
T520	X	38	38	6'-8"	X		PARAPET-VERT.
T521	X	2	2	7'-0"	X		PARAPET-VERT.-CORNERS
T522	X	2	2	7'-2"	X		PARAPET-VERT.-CORNERS
T523	X	2	2	7'-5"	X		PARAPET-VERT.-CORNERS
T524	X	2	2	7'-8"	X		PARAPET-VERT.-CORNERS
T525	X	2	2	7'-11"	X		PARAPET-VERT.-CORNERS
T526	X	29	29	13'-4"			PARAPET-HORIZ.
T527	X	1	1	12'-0"	X		PARAPET-HORIZ.-TRANSITION
T528	X	12	12	2'-9"	X		PARAPET/SLAB-VERT.-TRANSITION
T529	X	17	17	4'-4"	X		PARAPET/SLAB-VERT.-TRANSITION
T530	X	5	5	6'-5"	X		PARAPET-VERT.-TRANSITION
T531	X	6	6	6'-6"	X		PARAPET-VERT.-TRANSITION
T532	X	2	2	13'-5"	X		PARAPET-HORIZ.-TRANSITION
T533	X	6	6	5'-5"	X	⚠	PARAPET/SLAB-VERT.-TRANSITION

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
T533	2 SERIES OF 6	4'-9" TO 6'-1"

BUNDLE AND TAG EACH SERIES SEPARATELY.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

STRUCTURAL APPROACH SLAB DETAILS

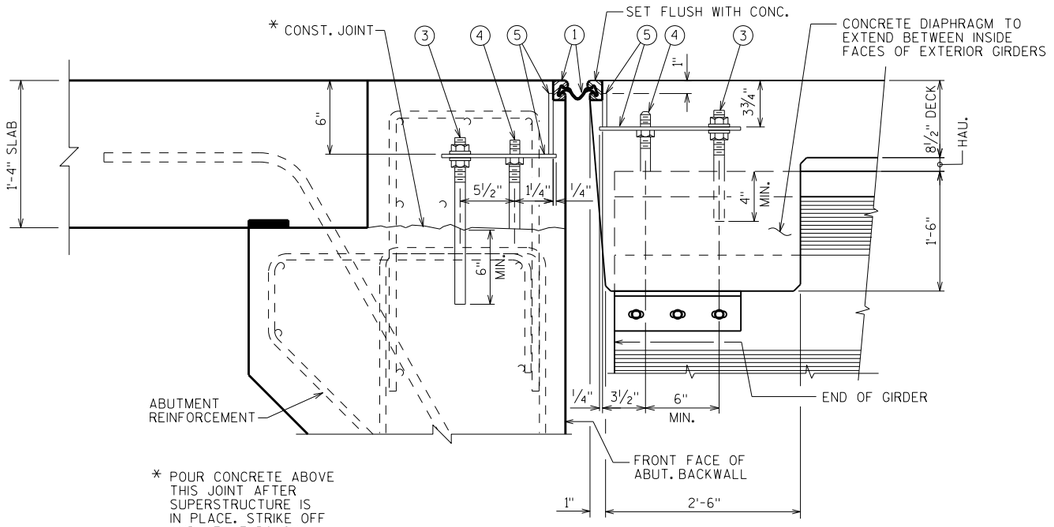
SHEET 27

253

SCALE = 6.00

STATE PROJECT NUMBER

1146-75-71



SECTION THRU JOINT AT ABUTMENT

NORMAL TO ℄ SUBSTRUCTURE

LEGEND

(1) NEOPRENE STRIP SEAL (4-INCH) AND STEEL EXTRUSIONS.

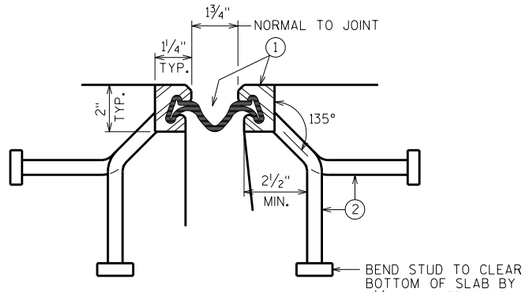
(2) STUDS ⅝"Φ X 6⅜" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.

(2A) ½" THICK ANCHOR PLATE WITH ⅝"Φ ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE. WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.

(3) ¾" Φ THREADED ROD WITH 2 NUTS AND PLATE WASHERS. GROUT THREADED ROD INTO FIELD DRILLED HOLES ON ℄ OF GIRDER. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.

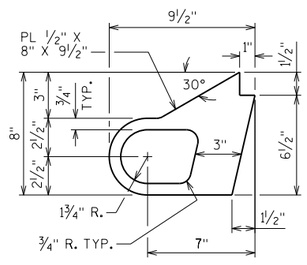
(4) ¾"Φ THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.

(5) FABRICATE SUPPORT FROM 3" X ½" BAR AS SHOWN OR EQUIVALENT. ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1½" Φ HOLE FOR NO. 3 AND 1" Φ HOLE FOR NO. 4.

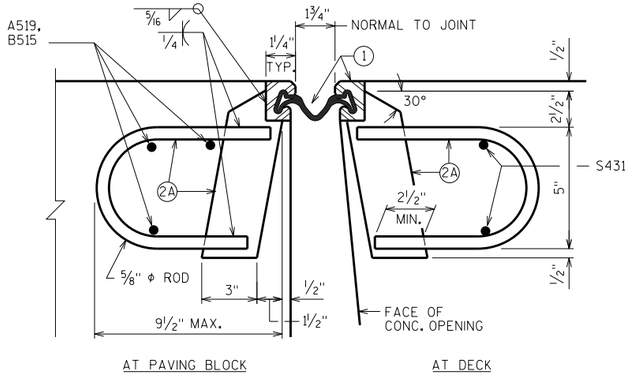


SECTION THRU JOINT

EXTERIOR GIRDER TO EDGE OF DECK AND AT PARAPETS, MEDIANS AND SIDEWALKS

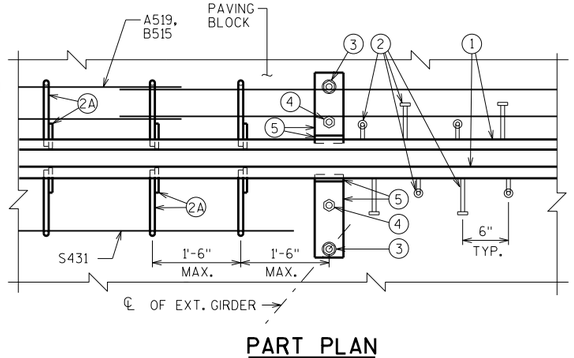


ALTERNATE STRIP SEAL ANCHOR



SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.



PART PLAN

NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENTS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST BARS, PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING THE BARS, PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

ALL MATERIAL IN THE EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID AT THE UNIT PRICE FOR "EXPANSION DEVICE", LF.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

EXPANSION DEVICE

SHEET 28

254

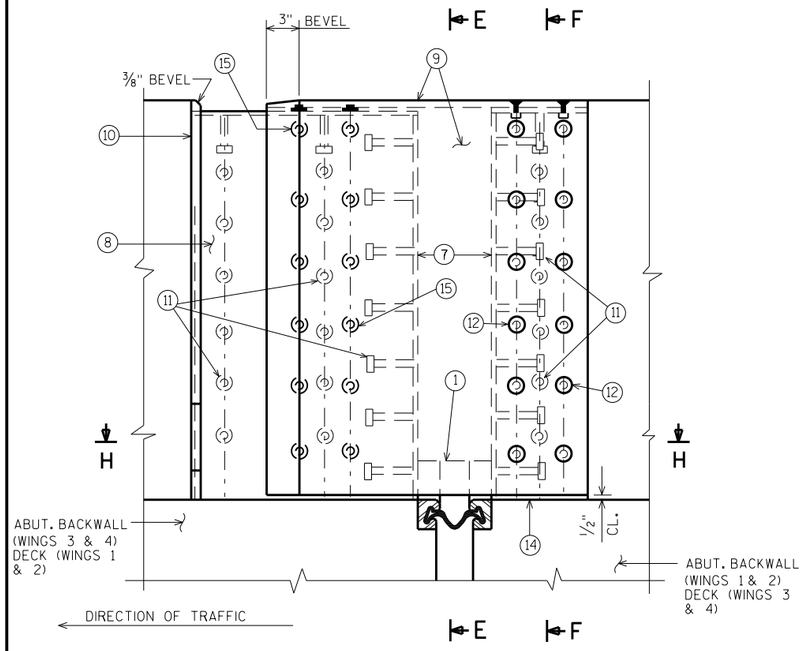
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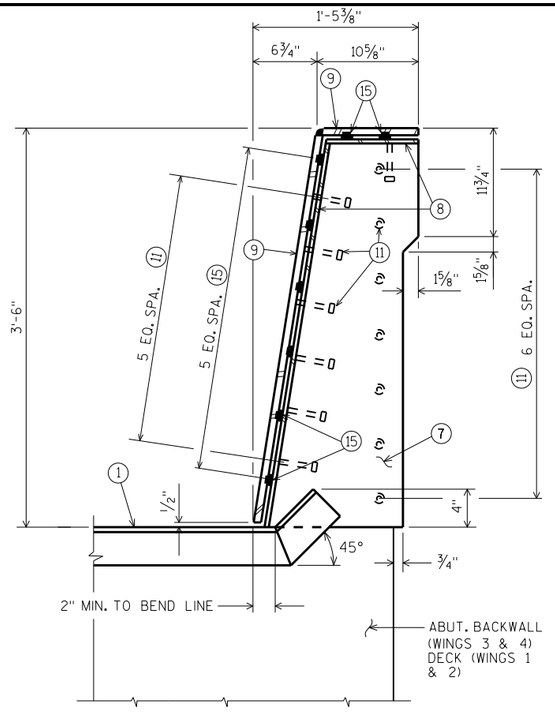
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STATE PROJECT NUMBER

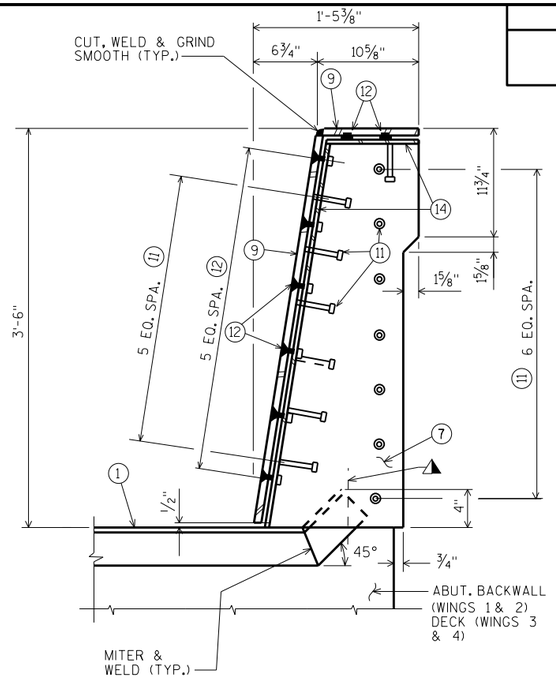
1146-75-71



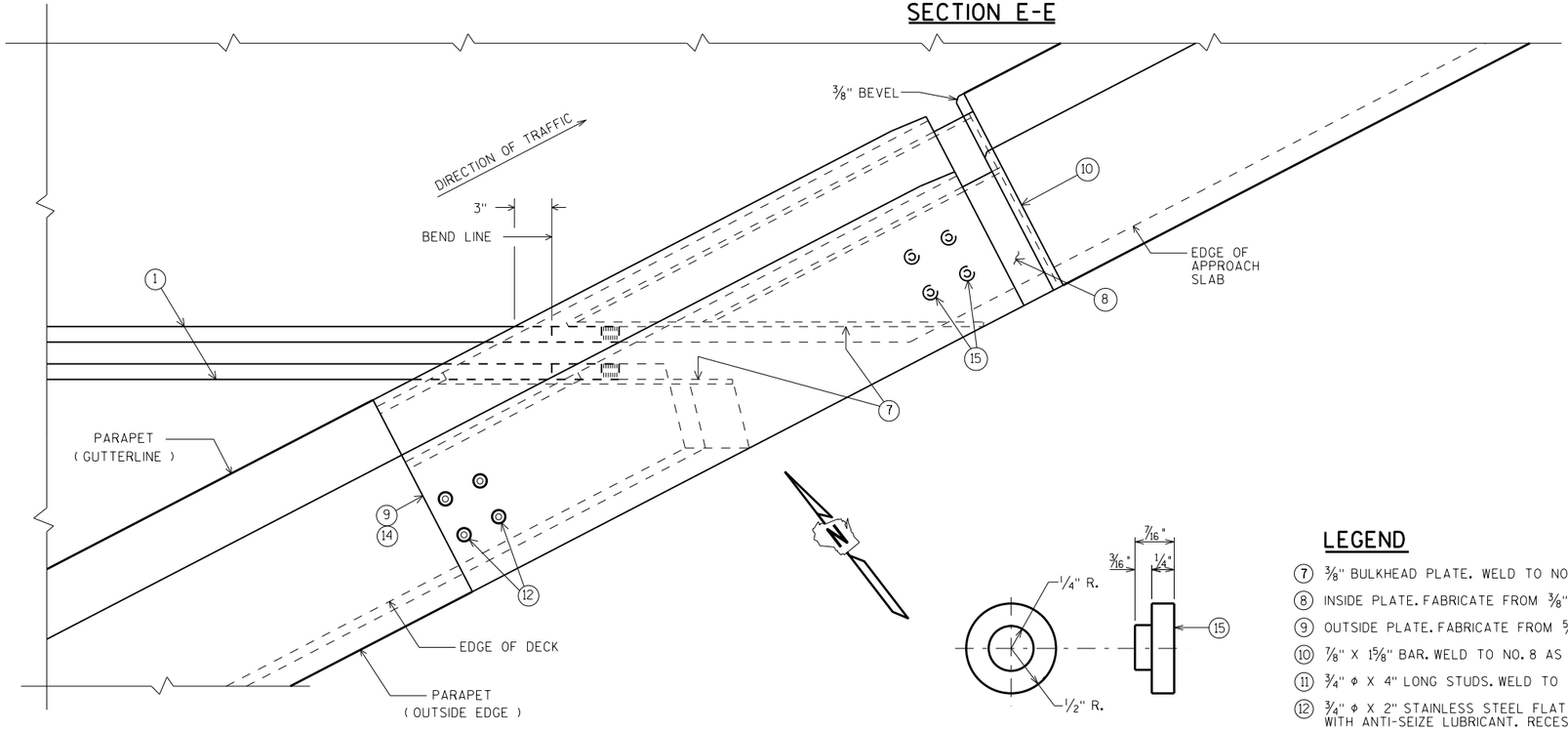
ELEVATION OF SINGLE SLOPE PARAPET



SECTION E-E

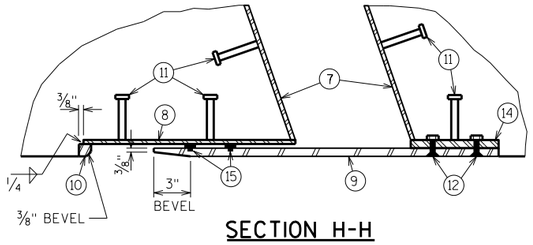


SECTION F-F



PLAN OF SINGLE SLOPE PARAPET

SHOWING COVERPLATE AT WING 4



SECTION H-H

ADIPRENE BUTTON DETAIL

LEGEND

(7) 3/8" BULKHEAD PLATE. WELD TO NO. 1, NO. 8 AND NO. 14.

(8) INSIDE PLATE. FABRICATE FROM 3/8" PLATE.

(9) OUTSIDE PLATE. FABRICATE FROM 5/8" PLATE.

(10) 7/8" X 1 5/8" BAR. WELD TO NO. 8 AS SHOWN.

(11) 3/4" Φ X 4" LONG STUDS. WELD TO NO. 8 , NO. 7 & NO. 14 AS SHOWN.

(12) 3/4" Φ X 2" STAINLESS STEEL FLAT CTSK. SLOTTED HEAD CAP SCREWS WITH ANTI-SEIZE LUBRICANT. RECESS 1/16" BELOW PLATE SURFACE.

(14) INSIDE PLATE. FABRICATE FROM 5/8" PLATE

(15) ADIPRENE BUTTON. SEE DETAIL. SET IN OUTSIDE PLATE.

⚠ MITER EXTRUSION ENDS AS REQ'D TO PROVIDE CLEARANCE

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STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

COVER PLATE DETAILS 1

SHEET 29

255

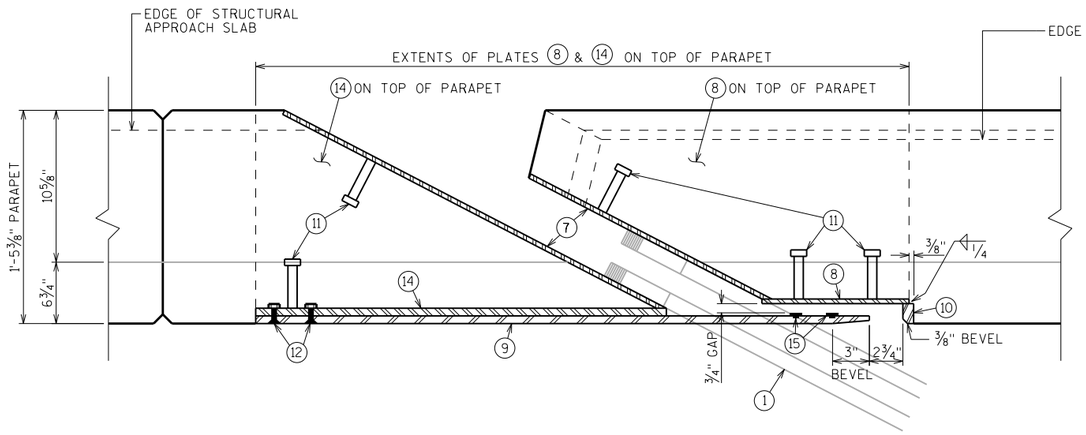
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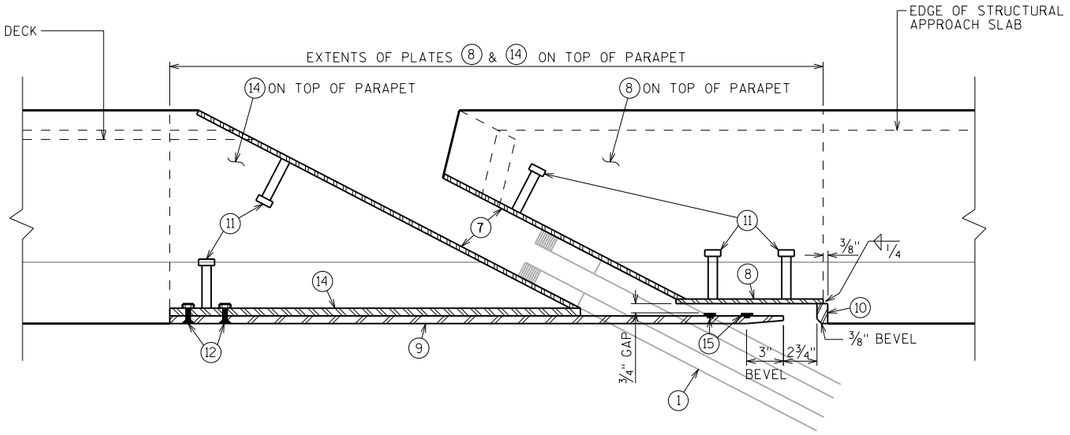
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STATE PROJECT NUMBER

1146-75-71

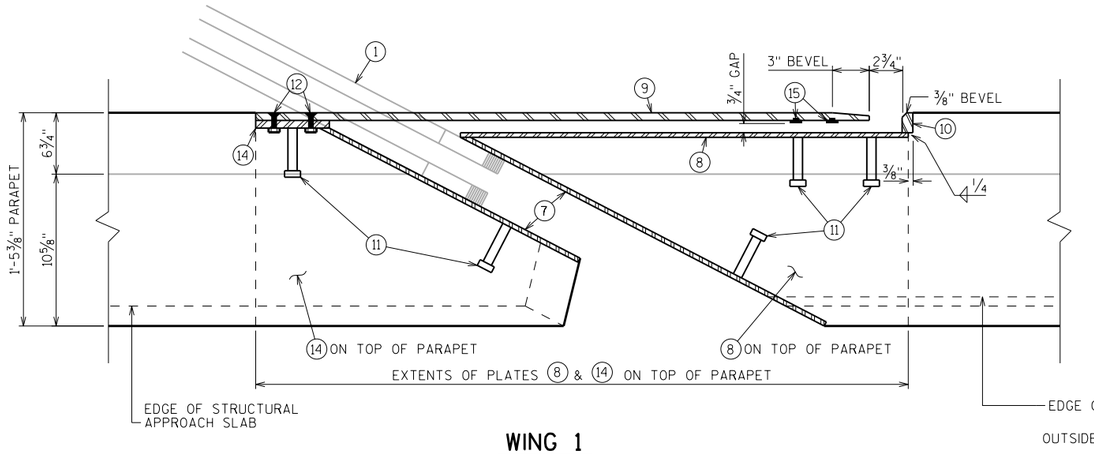


WING 2

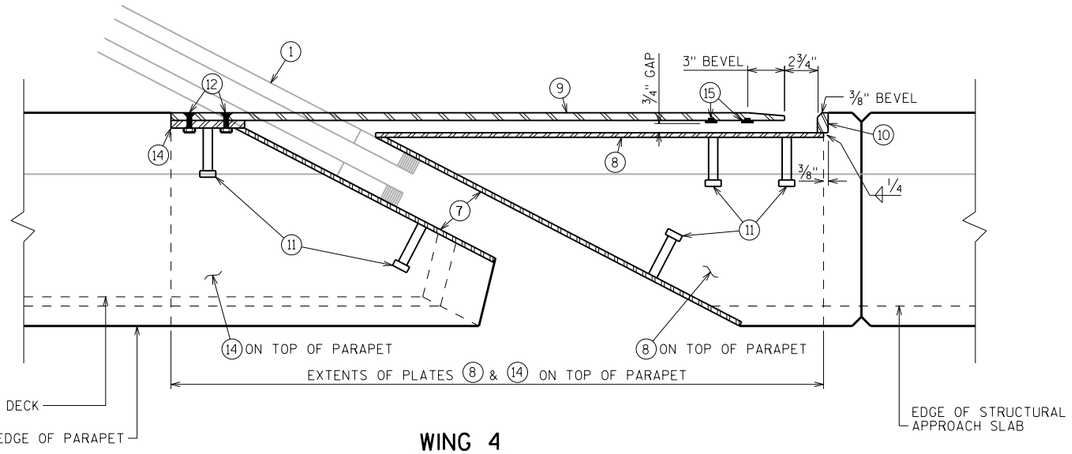


WING 3

DIRECTION OF TRAFFIC



WING 1



WING 4

SECTION H-H

(SEE "COVER PLATE DETAILS 1" SHEET FOR LOCATION OF SECTION H-H)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

COVER PLATE DETAILS 2

SHEET 30

256

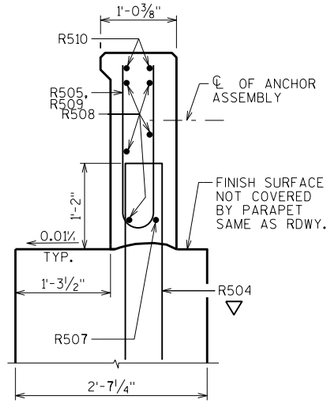
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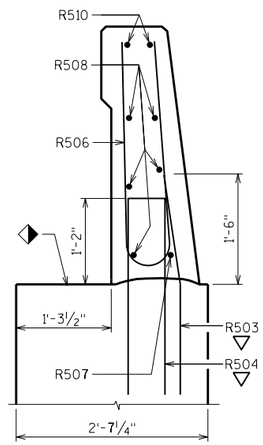
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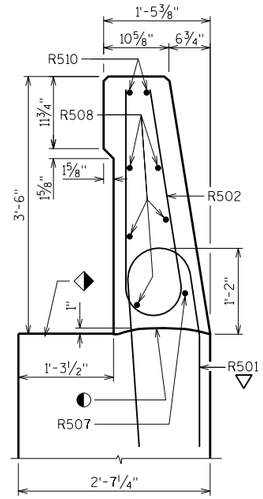
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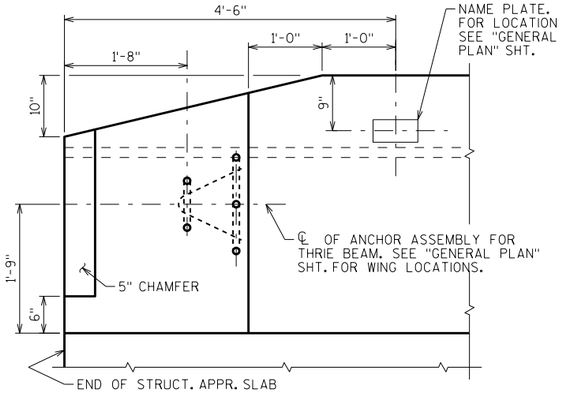
SECTION A-A



SECTION B-B



SECTION C-C



PARAPET END TREATMENT DETAIL

LOOKING AT INSIDE FACE OF PARAPET

BILL OF BARS

FOR STRUCTURAL APPROACH SLAB PARAPETS

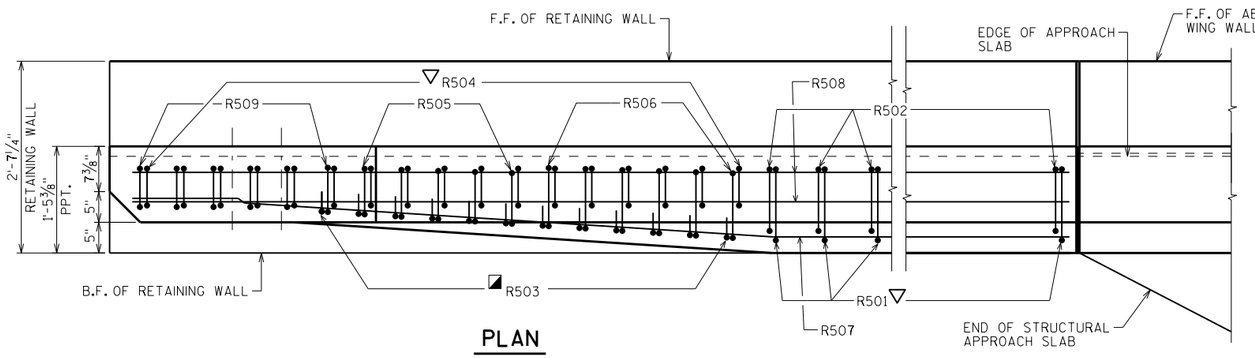
	BAR MARK	COAT	W. APP. SLAB	E. APP. SLAB	LENGTH	BENT	BAR SERIES	LOCATION
▽	R501	X	13	13	5'-10"	X		PARAPET VERT.
	R502	X	13	13	6'-8"	X		PARAPET VERT.
◪	R503	X	12	12	3'-0"	X		PARAPET VERT.
▽	R504	X	17	17	5'-7"	X		PARAPET VERT.
	R505	X	5	5	6'-5"	X		PARAPET VERT.
	R506	X	6	6	6'-6"	X		PARAPET VERT.
	R507	X	1	1	16'-9"	X		PARAPET HORIZ.
	R508	X	5	5	16'-8"			PARAPET HORIZ.
	R509	X	6	6	5'-5"	X	◭	PARAPET VERT.
	R510	X	2	2	16'-9"	X		PARAPET HORIZ.

◭ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

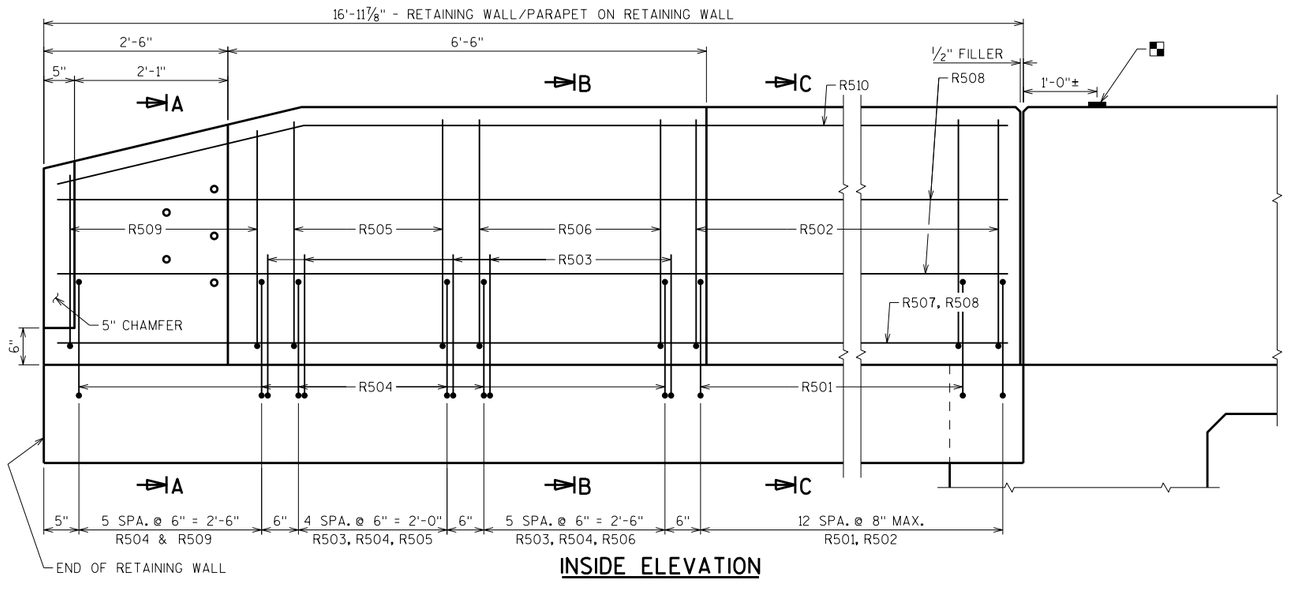
BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
R509	2 SERIES OF 6	4'-9" TO 6'-1"

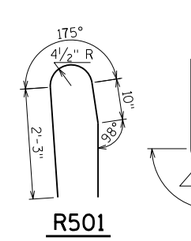
BUNDLE AND TAG EACH SERIES SEPARATELY.



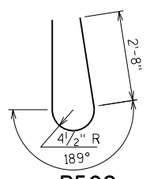
PLAN



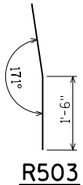
INSIDE ELEVATION



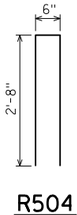
R501



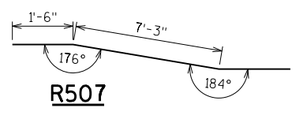
R502



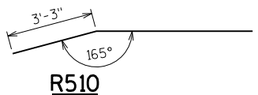
R503



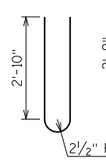
R504



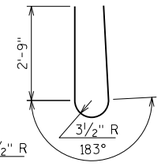
R507



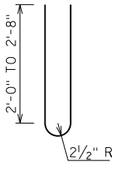
R510



R505

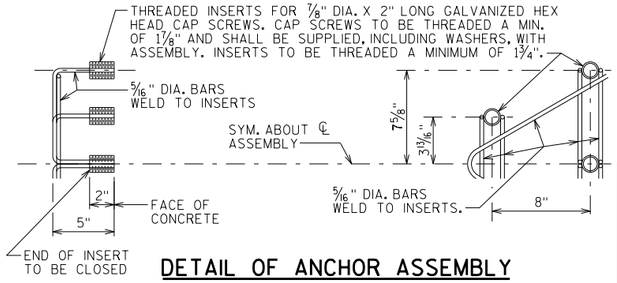


R506



R509

BENCH MARK CAP (WHEN SUPPLIED). AVOID PLACING A BENCH MARK CAP BELOW A RAIL OR FENCE SYSTEM THAT IS ATTACHED TO THE TOP OF THE PARAPET.



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

- ◐ CONST. JOINT - STRIKE OFF AS SHOWN
- ◆ SLOPE FOR DRAINAGE
- ◪ R503 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.
- ▽ R501 AND R504 BARS TO BE TIED TO RETAINING WALL STEEL BEFORE RETAINING WALL IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY MJH | PLANS CK'D. EMK

42SS PARAPET ON RETAINING WALLS

SHEET 31

257

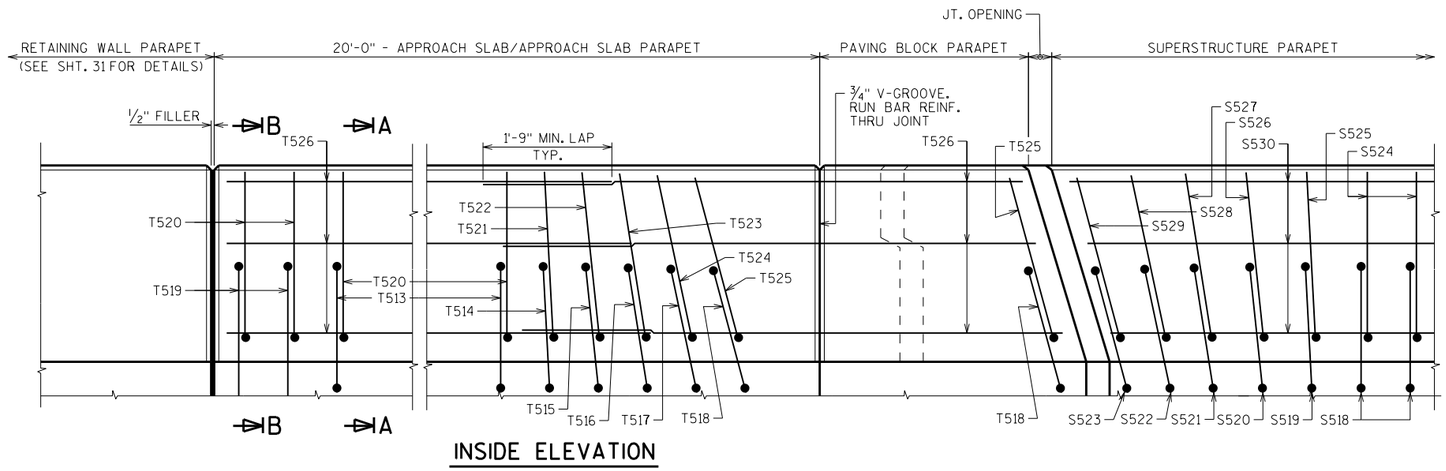
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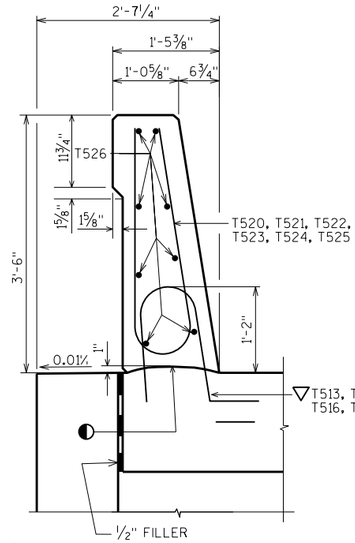
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STATE PROJECT NUMBER

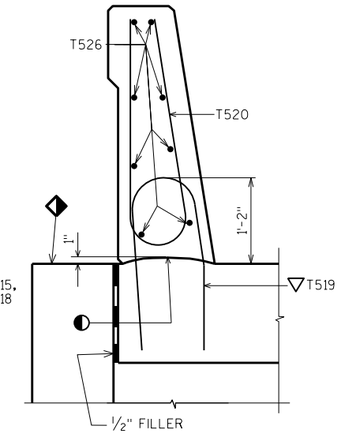
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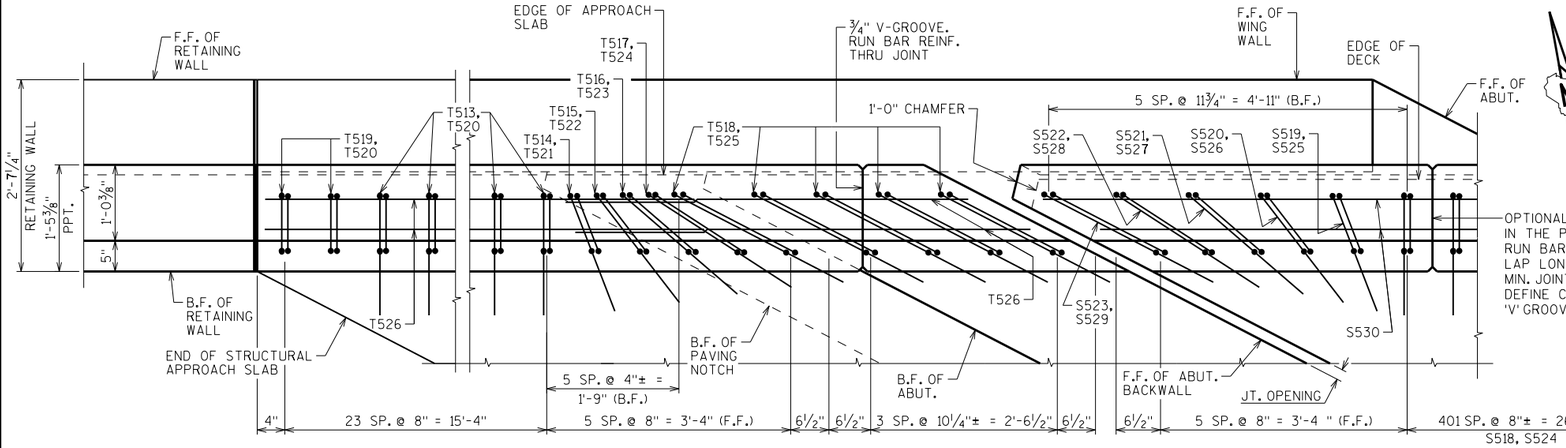
INSIDE ELEVATION



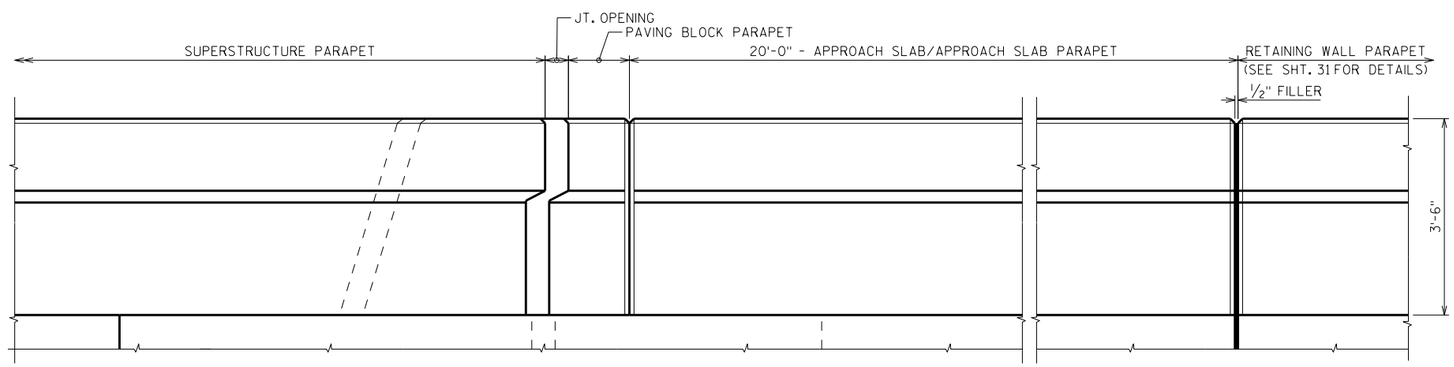
SECTION A



SECTION B

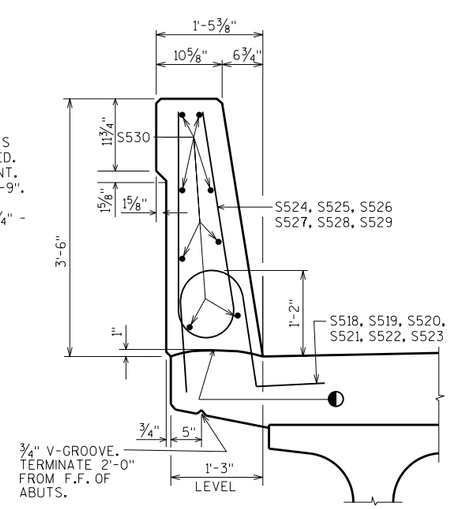


PLAN



OUTSIDE ELEVATION

(WING NOT SHOWN FOR CLARITY)



SECTION THRU PARAPET ON BRIDGE

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

▽ T513 THRU T519 BARS TO BE TIED TO STRUCTURAL APPROACH SLAB STEEL BEFORE STRUCTURAL APPROACH SLAB IS POURED.

OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF. THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE CONST. JOINT WITH A 3/4" - 'V' GROOVE.

NOTE: SEE 'SUPERSTRUCTURE' AND 'APPROACH SLAB' SHEETS FOR PARAPETS BAR DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

NW/SE 42SS PARAPET ON APPROACH SLABS

SHEET 32

258

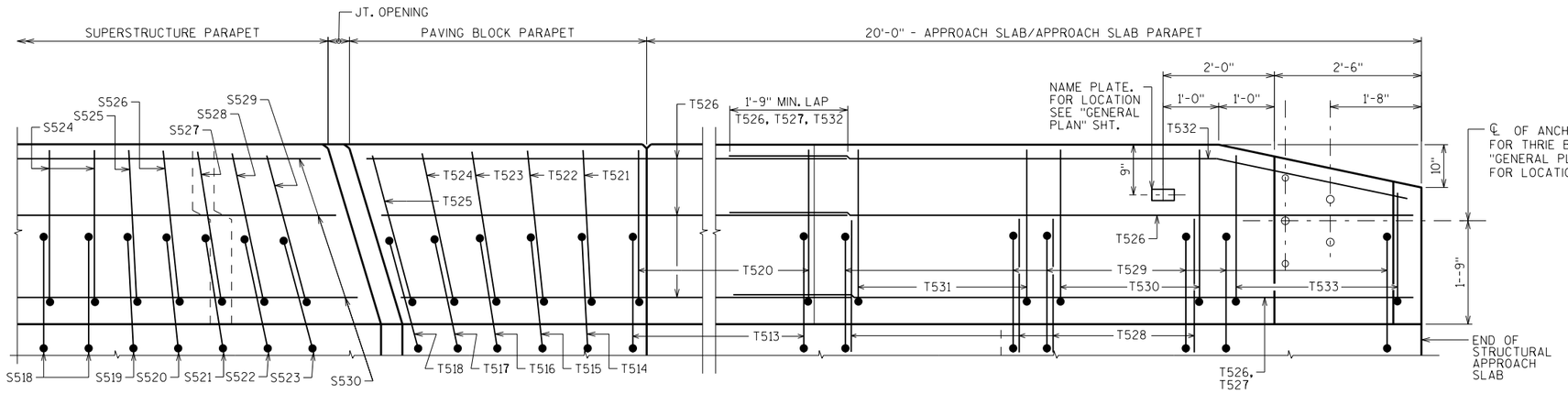
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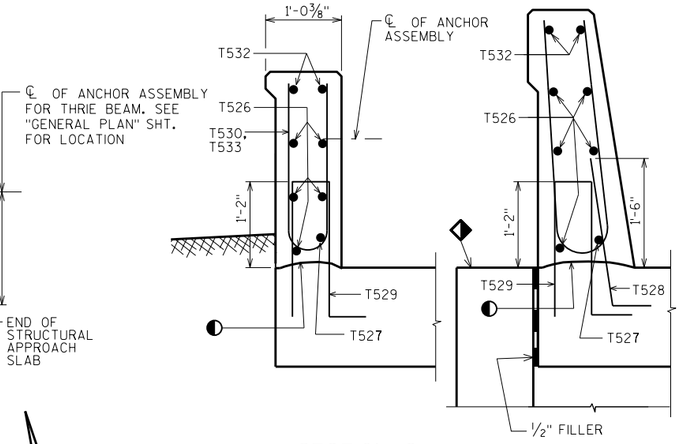
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STATE PROJECT NUMBER

1146-75-71

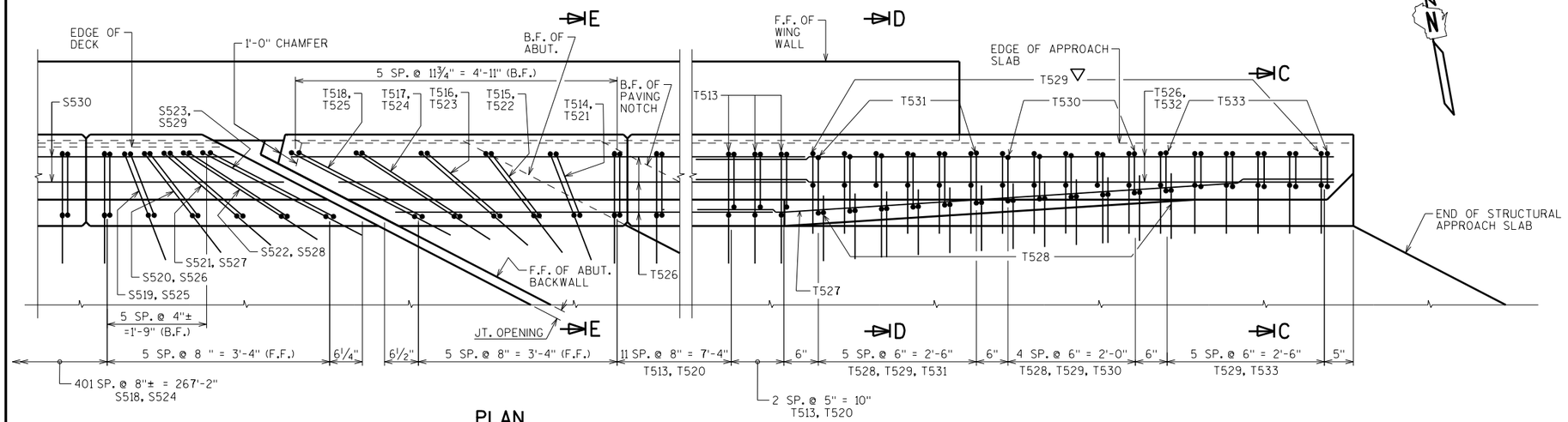


INSIDE ELEVATION

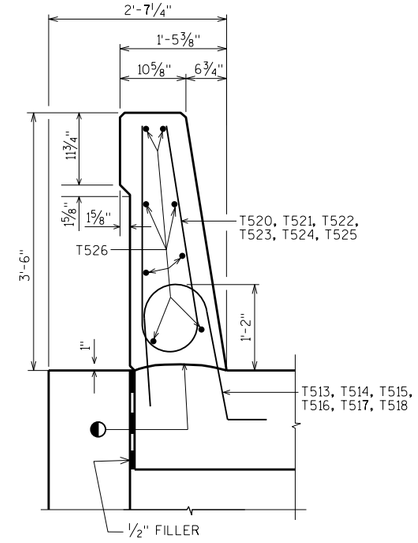


SECTION C

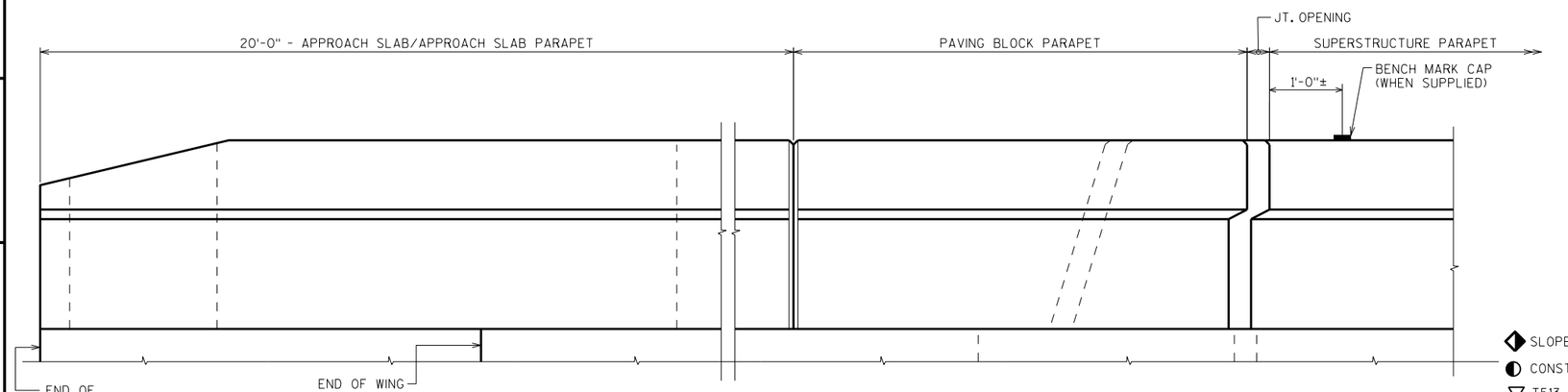
SECTION D



PLAN



SECTION E



OUTSIDE ELEVATION

(WING NOT SHOWN FOR CLARITY)

◆ SLOPE FOR DRAINAGE

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

▽ T513 THRU T519, T528 & T529 BARS TO BE TIED TO STRUCTURAL APPROACH SLAB STEEL BEFORE STRUCTURAL APPROACH SLAB IS POURED.

NOTE: SEE 'SUPERSTRUCTURE' AND 'APPROACH SLAB' SHEETS FOR PARAPETS BAR DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

NE/SW 42SS PARAPET ON APPROACH SLABS

SHEET 33

259

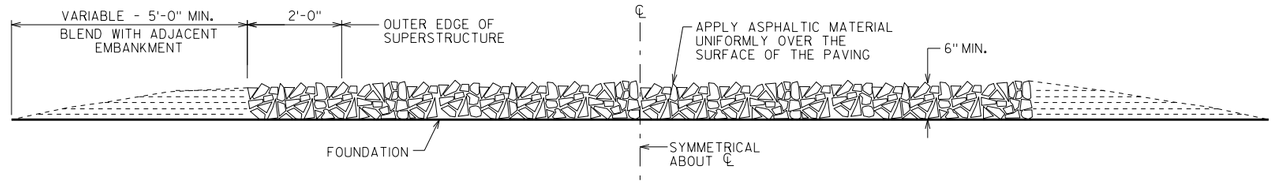
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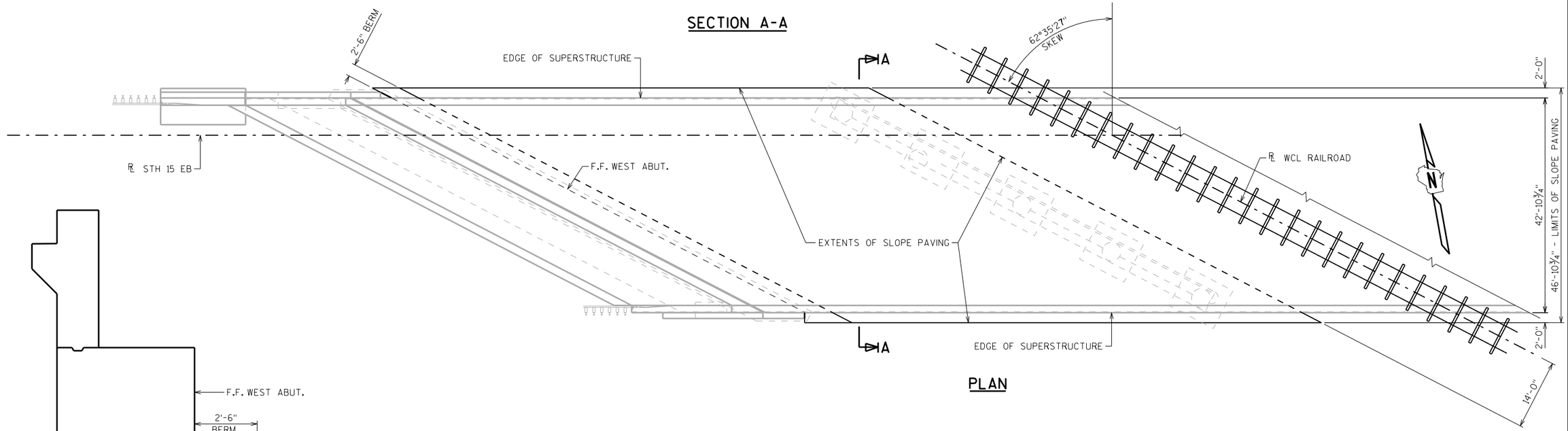
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STATE PROJECT NUMBER

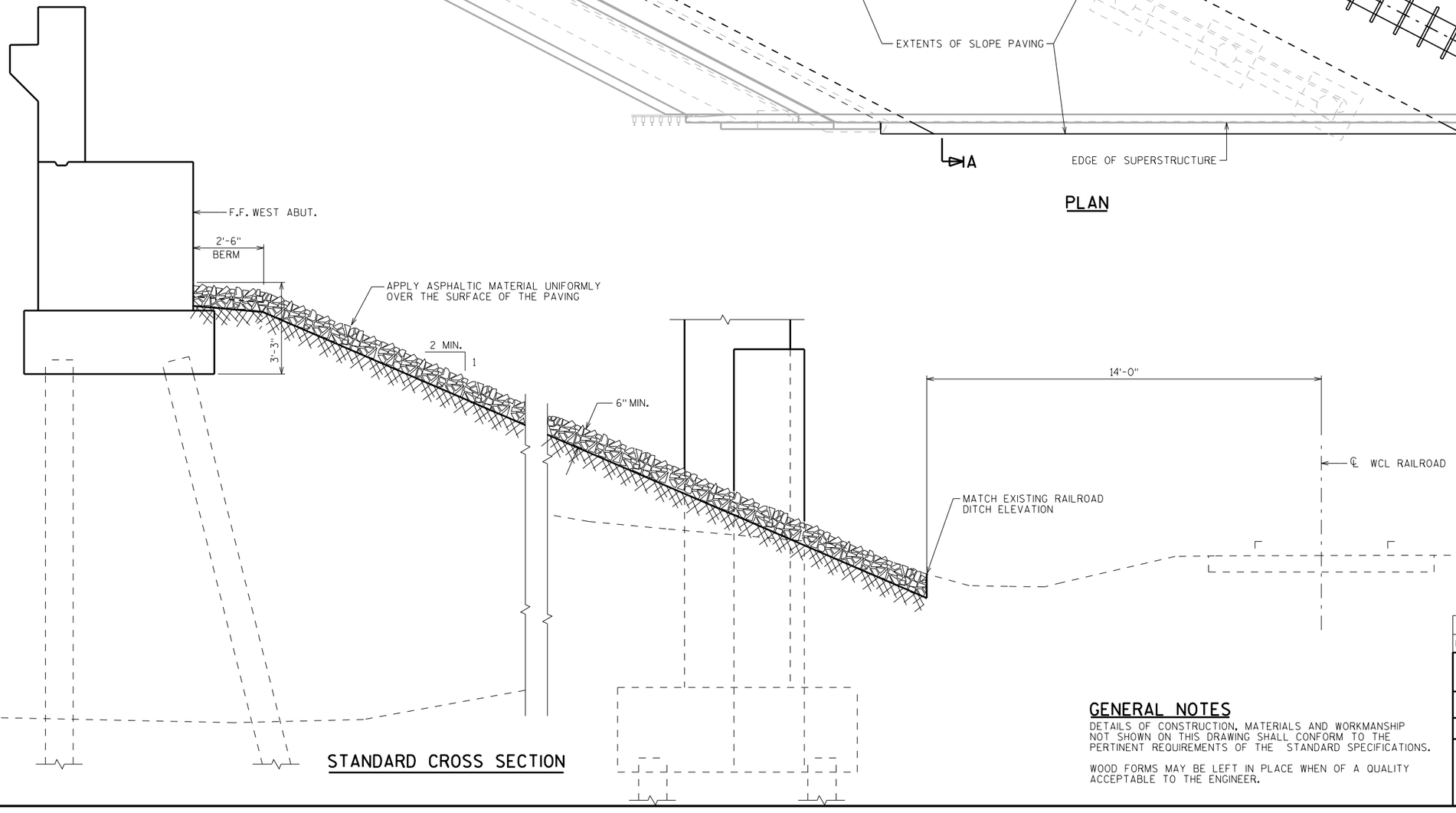
1146-75-71



SECTION A-A



PLAN



STANDARD CROSS SECTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

WOOD FORMS MAY BE LEFT IN PLACE WHEN OF A QUALITY ACCEPTABLE TO THE ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

SLOPE PAVING (CRUSHED AGGREGATE)

SHEET 34

260

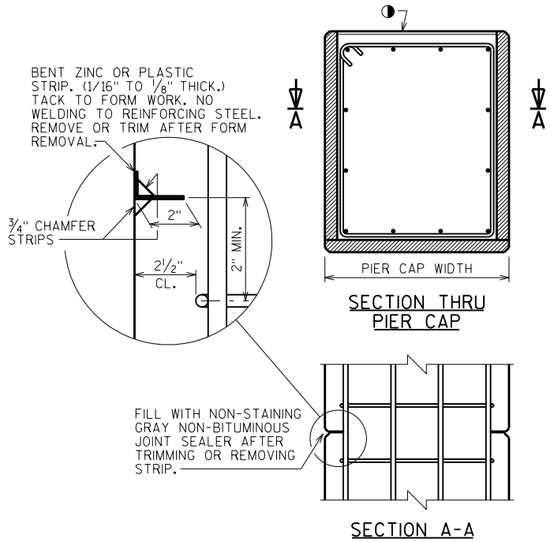
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SCALE = 1.00

STATE PROJECT NUMBER

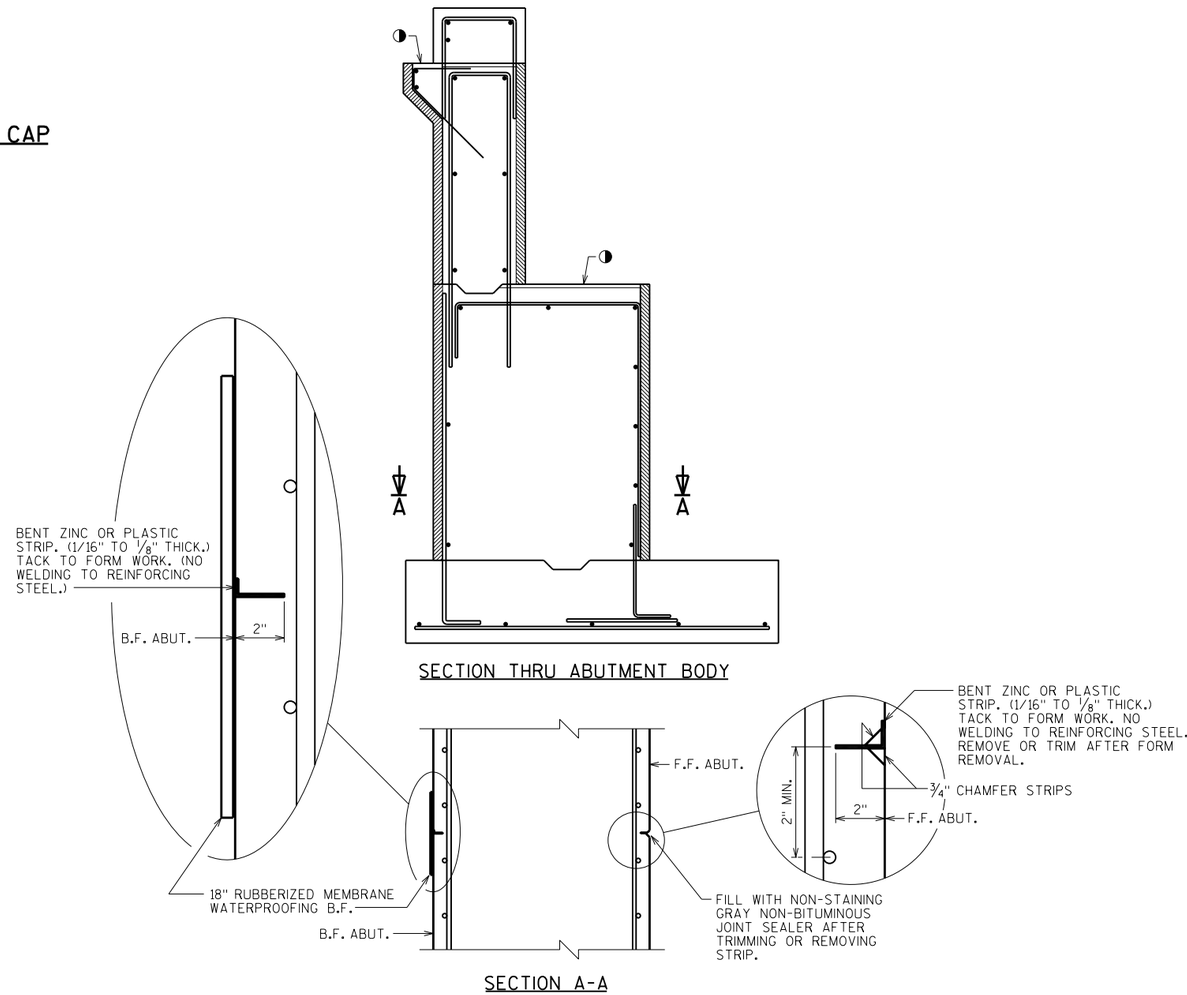
1146-75-71



SECTION THRU PIER CAP

SECTION A-A

ALTERNATE CONSTRUCTION JOINT AT PIER CAP



SECTION THRU ABUTMENT BODY

SECTION A-A

ALTERNATE CONSTRUCTION JOINT AT ABUTMENT

NOTES

PARTIAL ZINC OR PLASTIC BULKHEAD MAY BE USED AS ALTERNATE CONSTRUCTION JOINT, WITH THE PERMISSION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

VERTICAL CONSTRUCTION JOINT KEYWAY IS NOT REQUIRED WHEN USING ALTERNATE CONSTRUCTION JOINT.

CARE IS TO BE USED IN CASTING CONCRETE AROUND BULKHEAD TO PREVENT DISLOCATION OR MISALIGNMENT OF THE BULKHEAD.

SAW CUTTING JOINT IS NOT ALLOWED.

REPRESENTATIVE BAR STEEL SHOWN. SEE ABUTMENT AND PIER SHEETS FOR ACTUAL BAR STEEL DETAILS.

◑ USE A JOINT TOOL TO CONSTRUCT A CONTRACTION JOINT APPROXIMATELY 1/2" DEEP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY NAR | PLANS CK'D. EMK

ALTERNATE CONSTRUCTION JOINT

SHEET 35

261

8

8

SCALE = 1.00

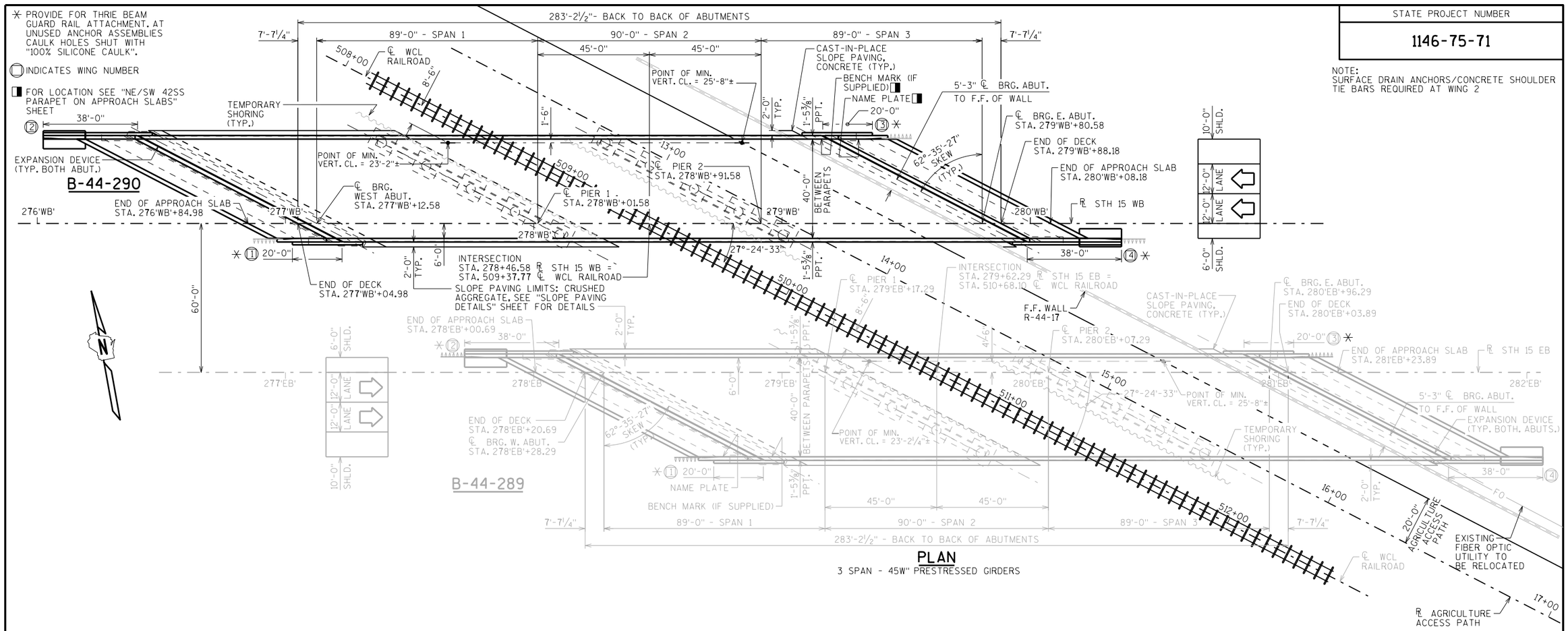
STATE PROJECT NUMBER
1146-75-71

NOTE:
SURFACE DRAIN ANCHORS/CONCRETE SHOULDER TIE BARS REQUIRED AT WING 2

✳ PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT. AT UNUSED ANCHOR ASSEMBLIES CAULK HOLES SHUT WITH "100% SILICONE CAULK".

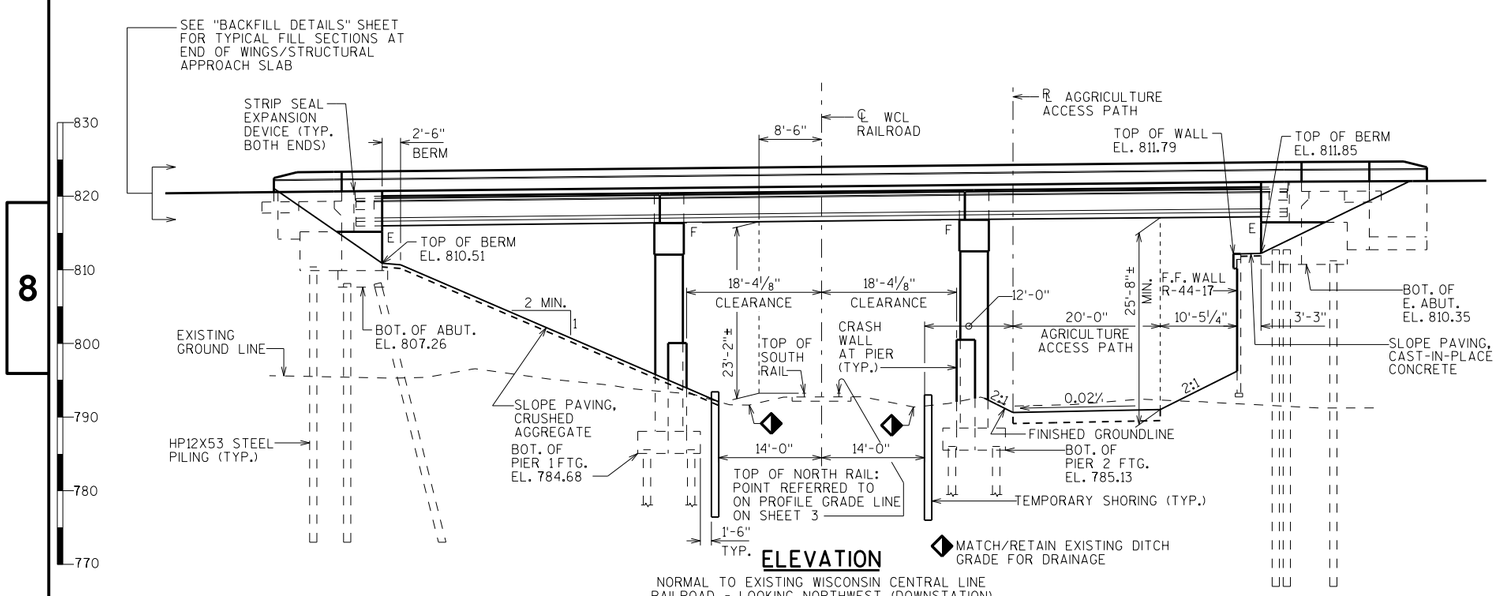
(n) INDICATES WING NUMBER

◨ FOR LOCATION SEE "NE/SW 42SS PARAPET ON APPROACH SLABS" SHEET



PLAN

3 SPAN - 45W" PRESTRESSED GIRDERS



ELEVATION

NORMAL TO EXISTING WISCONSIN CENTRAL LINE RAILROAD - LOOKING NORTHWEST (DOWNSTATION)

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION
3. QUANTITIES & GENERAL NOTES
4. BACKFILL DETAILS
5. SUBSURFACE EXPLORATION
6. WEST ABUTMENT
7. WEST ABUTMENT DETAILS 1
8. WEST ABUTMENT DETAILS 2
9. WEST ABUTMENT DETAILS 3
10. EAST ABUTMENT
11. EAST ABUTMENT DETAILS 1
12. EAST ABUTMENT DETAILS 2
13. EAST ABUTMENT DETAILS 3
14. PIER 1
15. PIER 2
16. PIER DETAILS 1
17. PIER DETAILS 2
18. ABUTMENT BEARING DETAILS
19. 45W" PRESTRESSED GIRDER DETAILS 1
20. 45W" PRESTRESSED GIRDER DETAILS 2
21. STEEL DIAPHRAGM
22. SUPERSTRUCTURE PLAN
23. SUPERSTRUCTURE CROSS SECTION
24. SUPERSTRUCTURE DETAILS
25. SUPERSTRUCTURE BAR DETAILS
26. STRUCTURAL APPROACH SLAB
27. STRUCTURAL APPROACH SLAB DETAILS
28. EXPANSION DEVICE
29. COVER PLATE DETAILS 1
30. COVER PLATE DETAILS 2
31. 42SS PARAPET ON RETAINING WALLS
32. NW/SE 42SS PARAPET ON APPROACH SLABS
33. NE/SW 42SS PARAPET ON APPROACH SLABS
34. SLOPE PAVING (CRUSHED AGGREGATE)
35. ALTERNATE CONSTRUCTION JOINT

STRUCTURE DESIGN CONTACTS:
EMILY KUEHNE (608) 266-5089
DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED DMR 01/07/21
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-44-290

STH 15 WB OVER WCL RAILROAD

COUNTY	TOWN
OUTAGAMIE	HORTONIA

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
NAR	MS	NAR	EMK

GENERAL PLAN

SHEET 1 OF 35

262

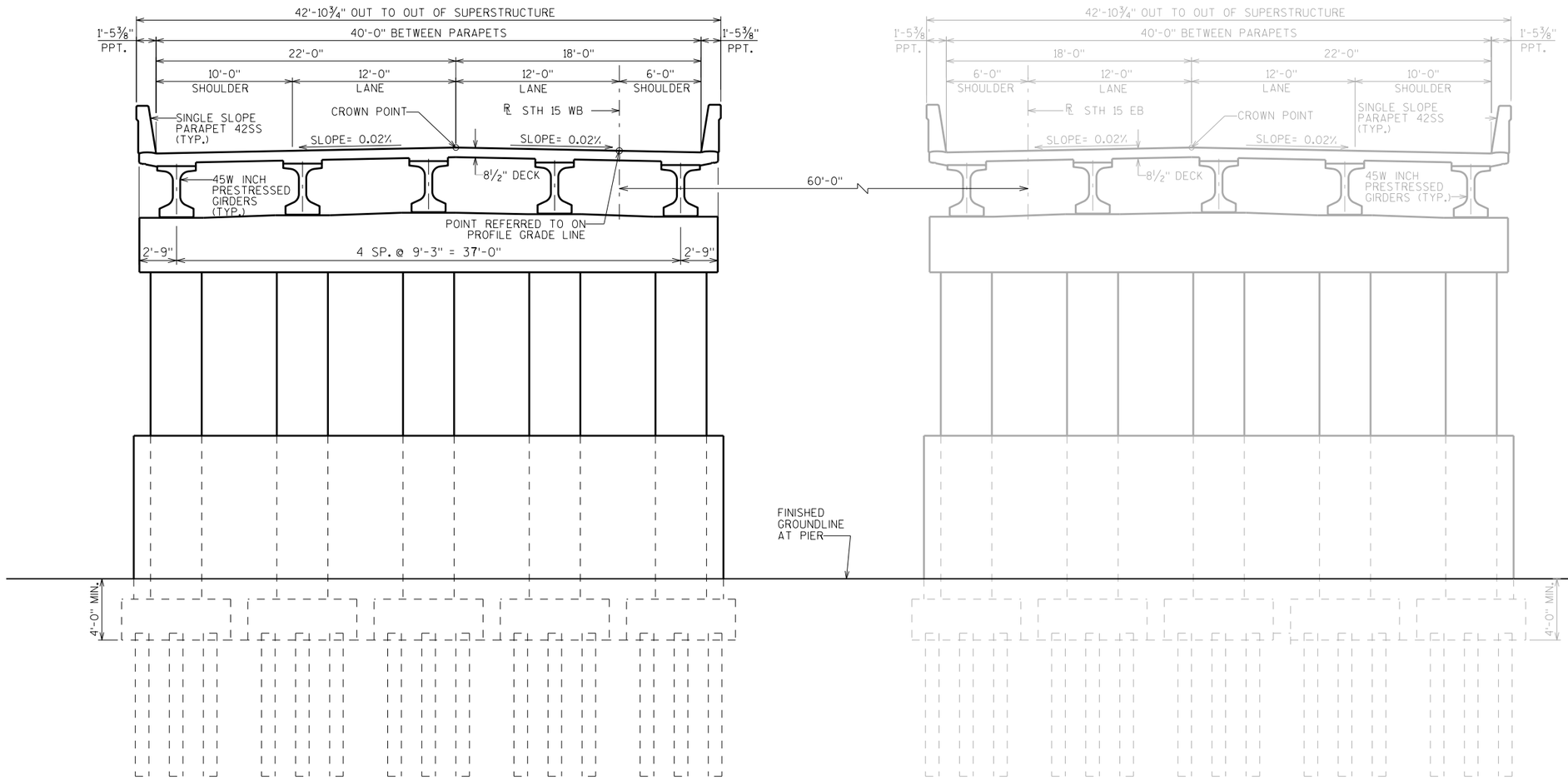
I.D. 1146-75-00J DATE: JAN 2021

SCALE = 20.00

8 8

STATE PROJECT NUMBER

1146-75-71



B-44-290 (S.T.H. 15 WESTBOUND LANES)

B-44-289 (S.T.H. 15 EASTBOUND LANES)

CROSS SECTION THRU ROADWAY LOOKING EAST (UPSTATION)

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

CROSS SECTION

SHEET 2

263

SCALE = 4.50

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.01
OPERATING RATING FACTOR: RF = 1.32
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 190(KIPS)

STRUCTURE IS DESIGN FOR A FUTURE WEARING
SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
SUPERSTRUCTURE & APPROACH SLAB ——— f'c = 4,000 P.S.I.
SUBSTRUCTURE ——— f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
GRADE 60 ——— fy = 60,000 P.S.I.
STAINLESS, GRADE 60 ——— fy = 60,000 P.S.I.

45W" PRESTRESSED GIRDERS:
CONCRETE MASONRY ——— f'c = 8,000 P.S.I.
STRANDS: 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

FOUNDATION DATA

WEST ABUTMENT TO BE SUPPORTED ON HP12X53 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 200 TONS ✱✱ PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 35'-0" LONG.

EAST ABUTMENT & PIERS TO BE SUPPORTED ON HP12X53 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 220 TONS ✱✱ PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 50'-0" LONG AT THE EAST ABUTMENT
ESTIMATED 15'-0" LONG AT PIER 1
ESTIMATED 20'-0" LONG AT PIER 2
PREBORING ESTIMATED TO BE 10'-0" AT EACH PILE AT BOTH PIERS 1 AND 2.

✱✱ THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

STH 15 WB

ADT = 15,000 (2040)
R.D.S. = 60 M.P.H.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾"UNLESS OTHERWISE NOTED.

THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL. ALSO EXCLUDED IS THE "BASE AGGREGATE DENSE 1 1/4-INCH" AS DETAILED ON THE STRUCTURAL APPROACH SLAB SHEETS.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND APPROACH SLAB SURFACES AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

PIGMENTED PROTECTIVE SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON APPROACH SLABS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE 45W" PRESTRESSED GIRDER DETAILS 2" SHEET.

AT ABUTMENTS AND PIER(S), CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

RAILROAD REQUIREMENTS DO NOT ALLOW WORK WITHIN 50 FEET OF TRACK CENTERLINE WHEN A TRAIN PASSES THE WORK SITE AND ALL PERSONNEL MUST CLEAR THE AREA WITHIN 25 FEET OF THE TRACK CENTERLINE AND SECURE ALL EQUIPMENT.

FINAL LOCATION & TYPE OF SHORING SYSTEM TO BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT ALL DESIGN DRAWINGS AND CALCULATIONS DIRECTLY TO THE RAILROAD.

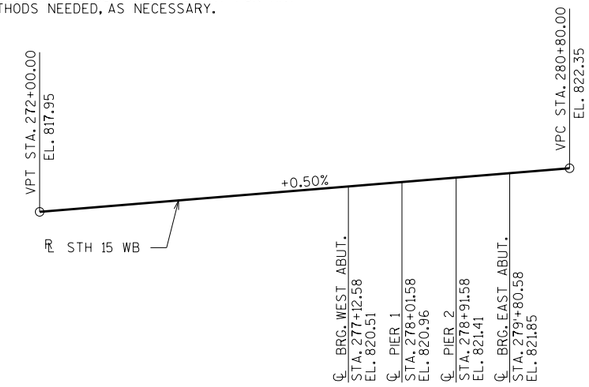
AT PIERS 1 & 2, PRE-BORE TO A DEPTH OF 10 FEET BELOW THE BOTTOM OF SUBGRADE. IF THE MATERIAL ENCOUNTERED AT THE BOTTOM OF THE PREDRILLED HOLE APPEARS TO CONSIST OF SOIL (OR A HIGHLY WEATHERED MATERIAL), THE PILES SHOULD BE DRIVEN TO THE REQUIRED DRIVING RESISTANCE. THE ANNULAR SPACE SHOULD BE SUBSEQUENTLY FILLED WITH CONCRETE. THE ENGINEER SHALL CONSULT WITH THE REGION GEOTECHNICAL ENGINEER TO MAKE A DETERMINATION OF THE MATERIAL CLASSIFICATION AT THE BOTTOM OF THE PREDRILLED HOLE.

GENERAL NOTES (CONT.)

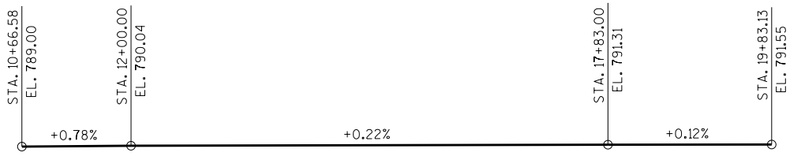
EXCAVATIONS FOR PIER FOOTINGS MAY ENCOUNTER POCKETS OF PERCHED WATER AND MAY EXTEND BELOW THE GROUNDWATER TABLE BY UP TO TWO OR THREE FEET. WHERE FINE-GRAINED MATERIALS ARE ENCOUNTERED, IT IS ANTICIPATED THAT GROUNDWATER INFLOWS WILL BE ABLE TO BE CONTROLLED USING TYPICAL SUMP PIT AND PUMP METHODS. BORING B-320 DRILLED FOR B-44-290 ALONG PIER 1 ENCOUNTERED RELATIVELY CLEAN, POORLY-GRADED SAND NEAR THE PIER FOOTING SUBGRADE ELEVATION. EXCAVATION BELOW THE GROUNDWATER TABLE IN THIS MATERIAL WILL BE MORE CHALLENGING AND MAY REQUIRE SHEETING OR OTHER MORE ELABORATE DEWATERING METHODS TO PROVIDE GROUNDWATER CUT-OFF FOR CONSTRUCTION OF THE PIER FOOTING.

THE BID ITEM "COFFERDAMS B-44-290" IS INCLUDED IN THE CONTRACT TO PAY FOR ANY REQUIRED SHEETING OR OTHER DEWATERING METHODS NEEDED, AS NECESSARY.

STATE PROJECT NUMBER
1146-75-71



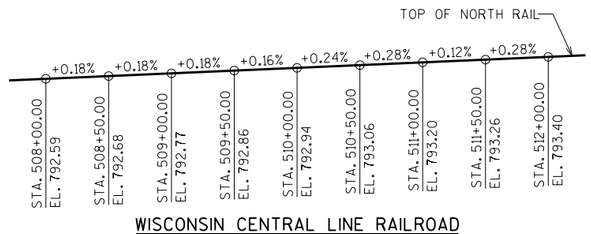
PROFILE GRADE LINE FOR STH 15 WB



PROFILE GRADE LINE FOR AGRICULTURE ACCESS PATH

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	WEST APPROACH	WEST ABUT.	PIER 1	PIER 2	EAST ABUT.	EAST APPROACH	TOTALS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-44-290	LS	———	———	———	———	———	———	———	1
206.5000	COFFERDAMS B-44-290	LS	———	———	———	———	———	———	———	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	———	———	800	———	———	45	———	845
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	———	130	———	———	———	———	130	260
502.0100	CONCRETE MASONRY BRIDGES	CY	525	72	239	244	244	197	72	1597
502.3101	EXPANSION DEVICE	LF	174	———	———	———	———	———	———	174
502.3200	PROTECTIVE SURFACE TREATMENT	SY	1310	90		———	———		90	1490
502.3210	PIGMENTED SURFACE SEALER	SY	280	20	10	———	———	10	20	340
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF	1347	———	———	———	———	———	———	1347
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	———	———	10735	29170	29170	9485	———	78560
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	101310	12870	8630	———	———	9340	12870	145020
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	———	———	1185	———	———	1185	———	2370
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	20	———	———	———	———	———	———	20
506.2610	BEARING PADS ELASTOMERIC LAMINATED	EACH	10	———	———	———	———	———	———	10
506.4000	STEEL DIAPHRAGMS B-44-290	EACH	24	———	———	———	———	———	———	24
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	———	———	29	———	———	29	———	58
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	———	———	———	300	300	———	———	600
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF	———	———	980	450	600	750	———	2780
604.0400	SLOPE PAVING CONCRETE	SY	———	———	———	———	———	32	———	32
604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY	———	———	580	———	———	———	———	580
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	———	———	150	———	———	40	———	190
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	———	1	1	———	———	1	———	3
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	———	———	85	———	———	———	———	85
SPV.0165	TEMPORARY SHORING RAILROAD	SF	———	———	———	880	880	———	———	1760
	NON-BID ITEMS									
	FILLER	SIZE	———	———	———	———	———	———	———	½", ¾", 1", 1½"
	BRIDGE SEAT PROTECTION	LS	———	———	———	———	———	———	———	1



WISCONSIN CENTRAL LINE RAILROAD

PROFILE GRADE LINE FOR EXISTING RAILROAD

(FOR INFORMATIONAL PURPOSES ONLY)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

QUANTITIES & GENERAL NOTES

SHEET 3

264

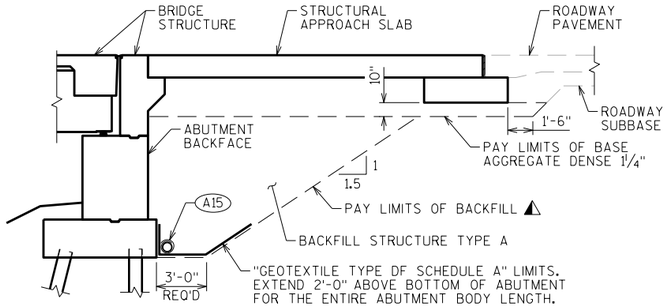
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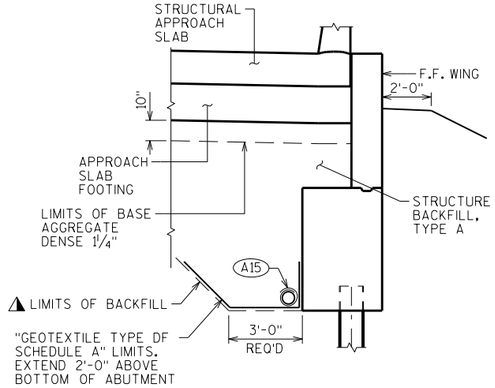
STATE PROJECT NUMBER

1146-75-71



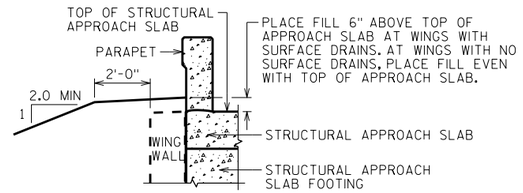
TYPICAL SECTION THRU WEST ABUTMENT

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

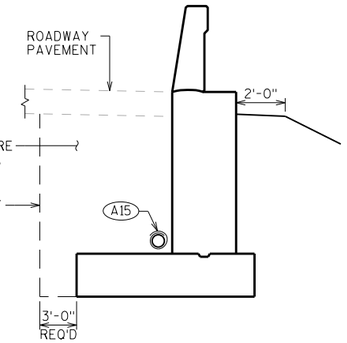


SECTION THRU WINGS

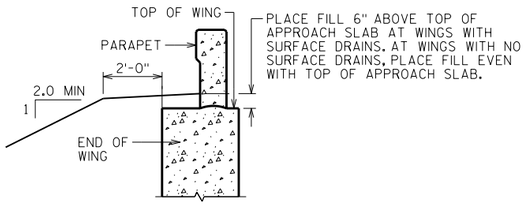
AT WEST ABUT. WINGS ONLY



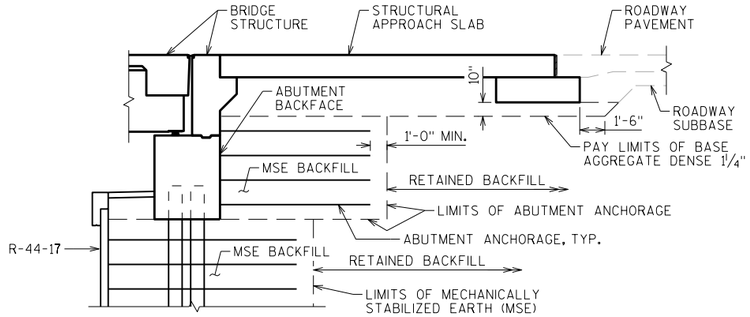
TYPICAL FILL SECTION AT END OF STRUCTURAL APPROACH SLABS (WINGS 1 & 3)



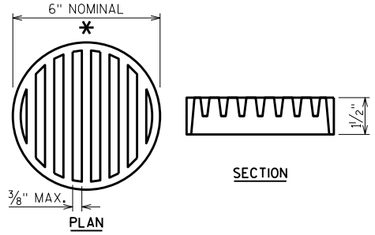
SECTION THRU RETAINING WALL



TYPICAL FILL SECTION AT END OF WINGS 2 & 4



TYPICAL SECTION THRU EAST ABUTMENT



RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

BACKFILL DETAILS

SHEET 4

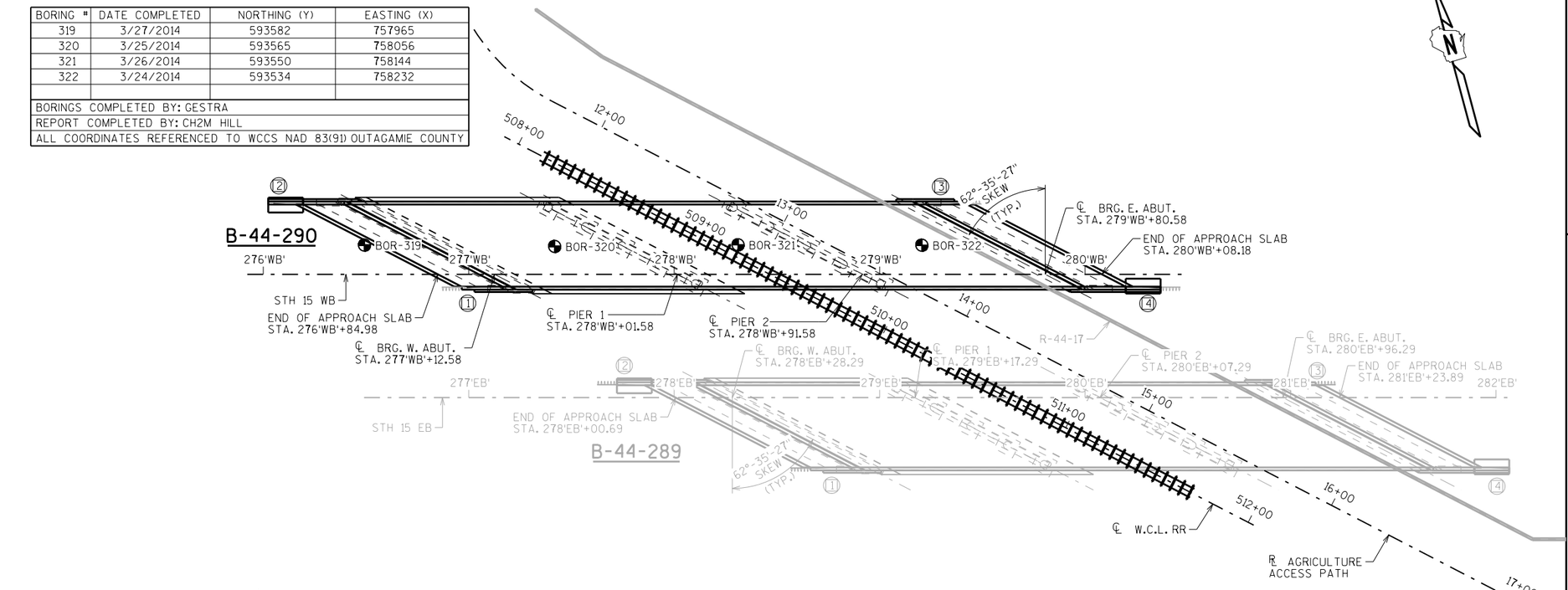
265

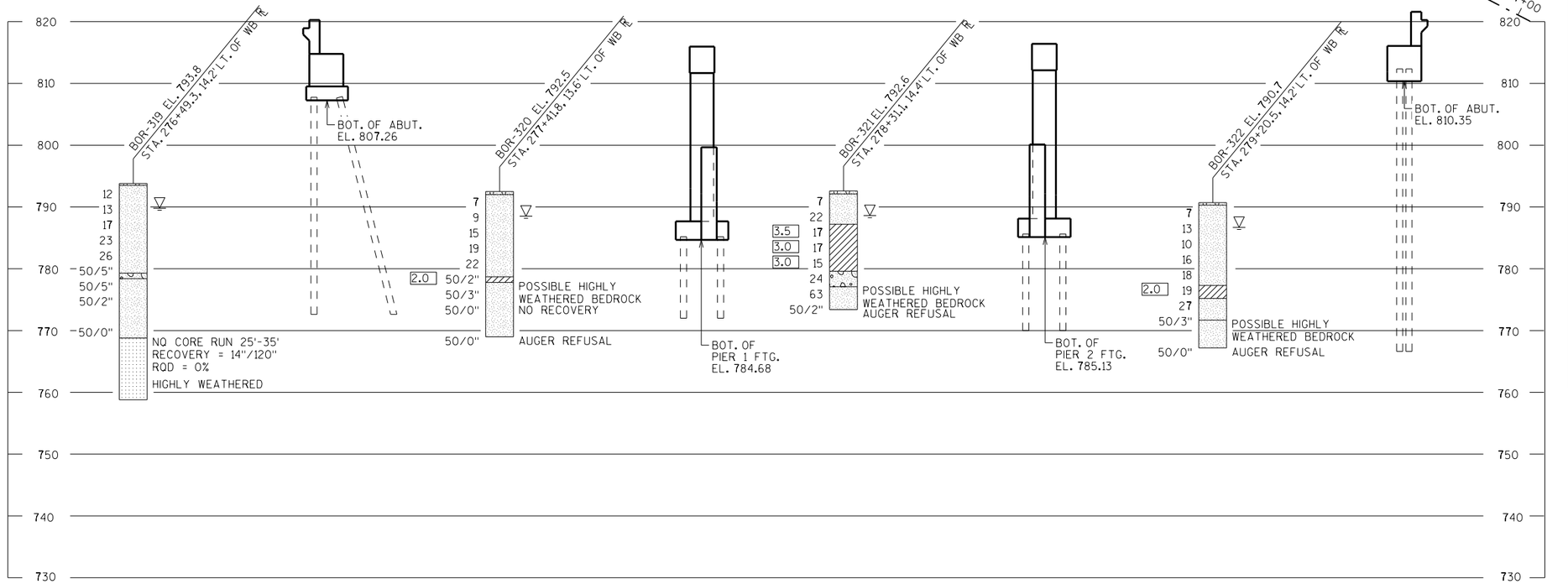
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8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
319	3/27/2014	593582	757965
320	3/25/2014	593565	758056
321	3/26/2014	593550	758144
322	3/24/2014	593534	758232
BORINGS COMPLETED BY: GESTRA			
REPORT COMPLETED BY: CH2M HILL			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY			





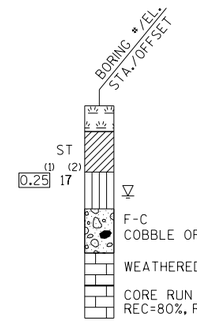
STATE PROJECT NUMBER

1146-75-71

MATERIAL SYMBOLS

ASPHALT, TOPSOIL, PEAT, CONCRETE, FILL, GRAVEL, SAND, CLAY, SILT, BOULDERS OR COBBLES, LIMESTONE, BEDROCK (UNKNOWN), SHALE, SANDSTONE, IGNEOUS/META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY TLP/NAR | PLANS CK'D. EMK

SUBSURFACE EXPLORATION

SHEET 5

266

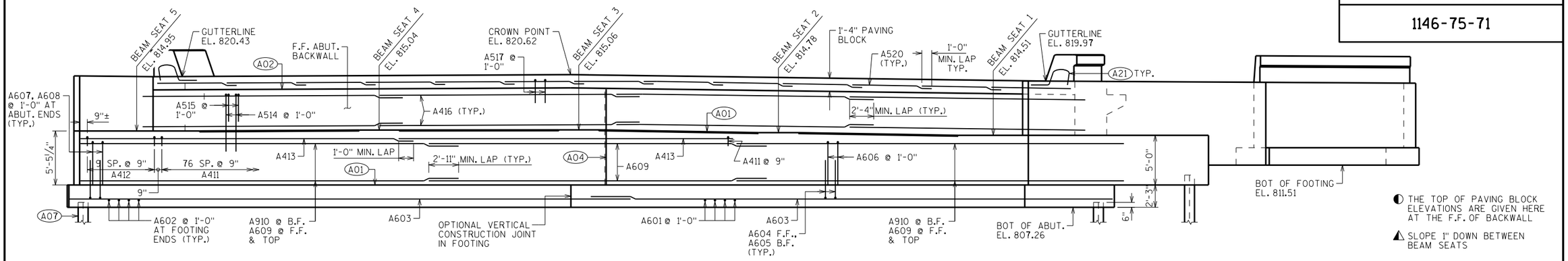
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8

STATE PROJECT NUMBER

1146-75-71

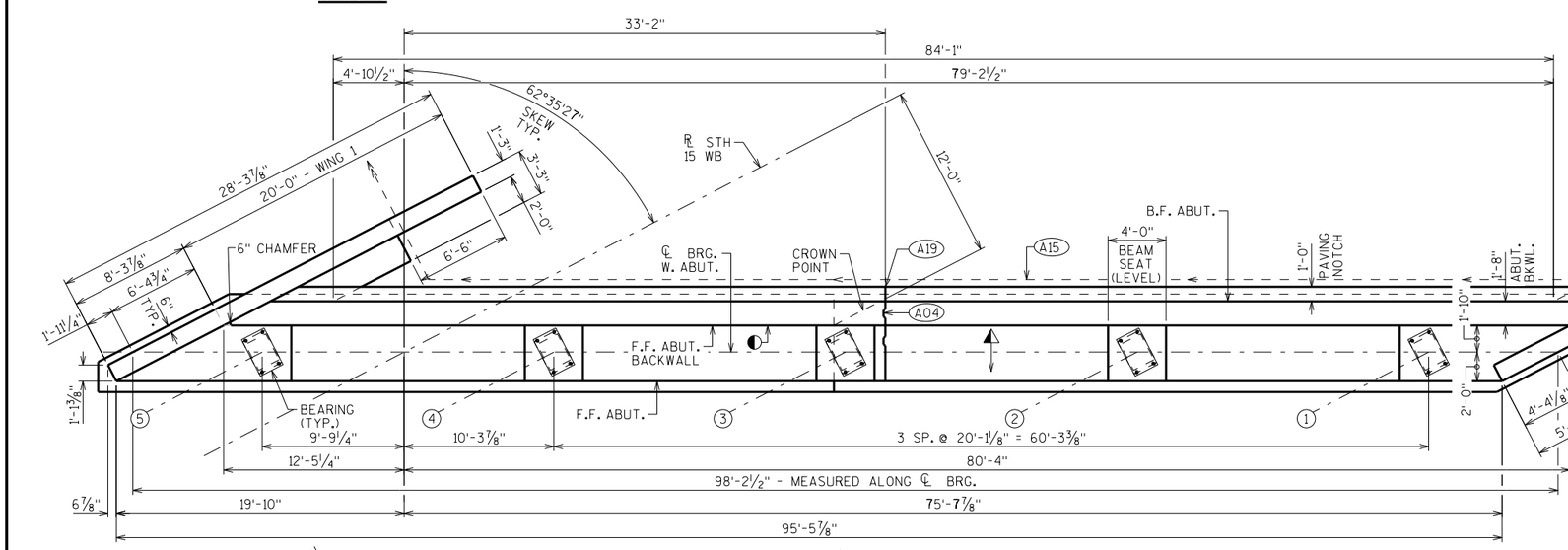


◐ THE TOP OF PAVING BLOCK ELEVATIONS ARE GIVEN HERE AT THE F.F. OF BACKWALL

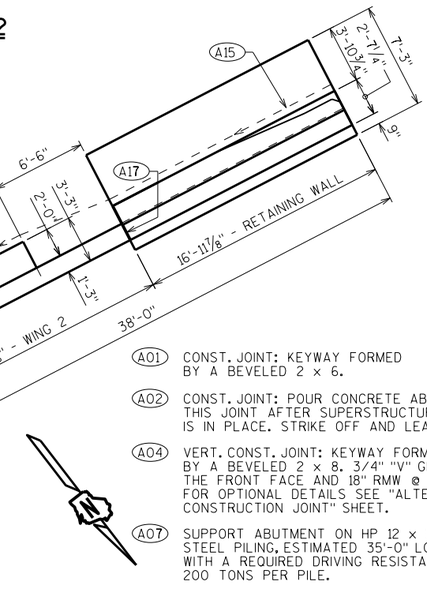
◭ SLOPE 1" DOWN BETWEEN BEAM SEATS

ELEVATION - LOOKING SOUTHWEST

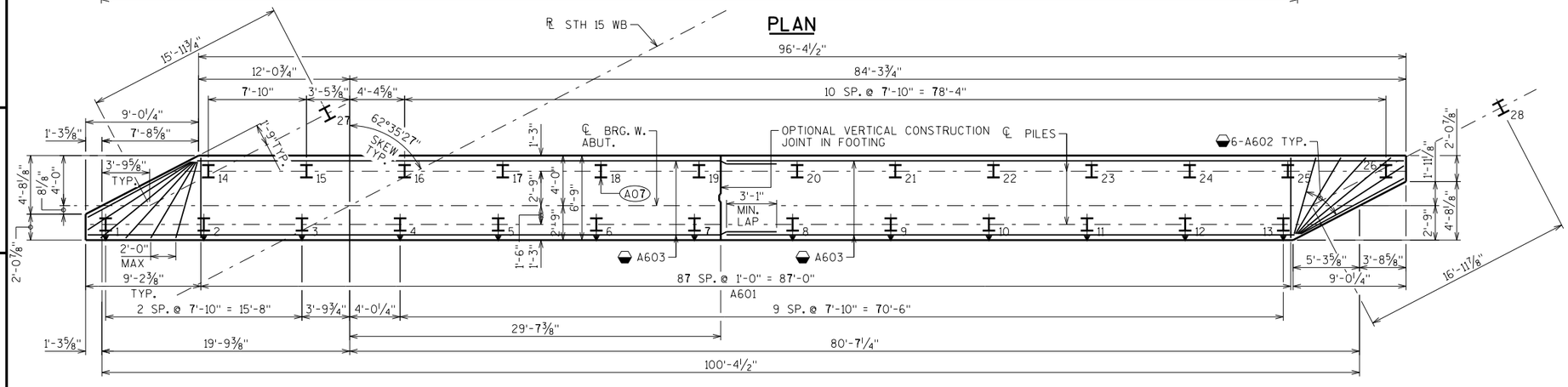
WING 1



WING 2



PLAN



INDICATES PILE BATTERED 1:4 IN DIRECTION SHOWN (PILES 1-13)

FOOTING & PILE PLAN

CUT BARS AS NECESSARY TO FIT

(A01) CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 × 6.

(A02) CONST. JOINT: POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.

(A04) VERT. CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 × 8. 3/4" "V" GROOVE @ THE FRONT FACE AND 18" RMW @ BACKFACE. FOR OPTIONAL DETAILS SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.

(A07) SUPPORT ABUTMENT ON HP 12 × 53 STEEL PILING, ESTIMATED 35'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 200 TONS PER PILE.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) ½" FILLER: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(A21) FOR PPT. BARS & DIMENSIONS SEE PARAPET SHEET.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

WEST ABUTMENT

SHEET 6

267

SCALE = 5.00

8

8

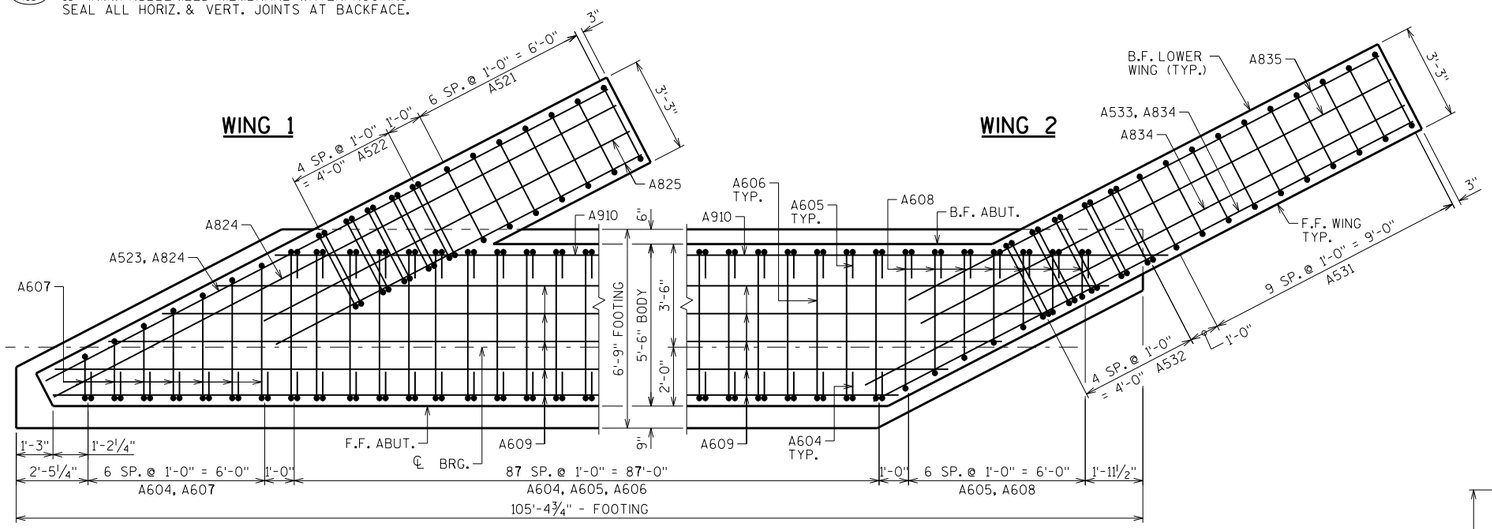
(A01) CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 × 6.

(A02) CONST. JOINT: POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.

(A07) SUPPORT ABUTMENT ON HP 12 × 53 STEEL PILING, ESTIMATED 35'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 200 TONS PER PILE.

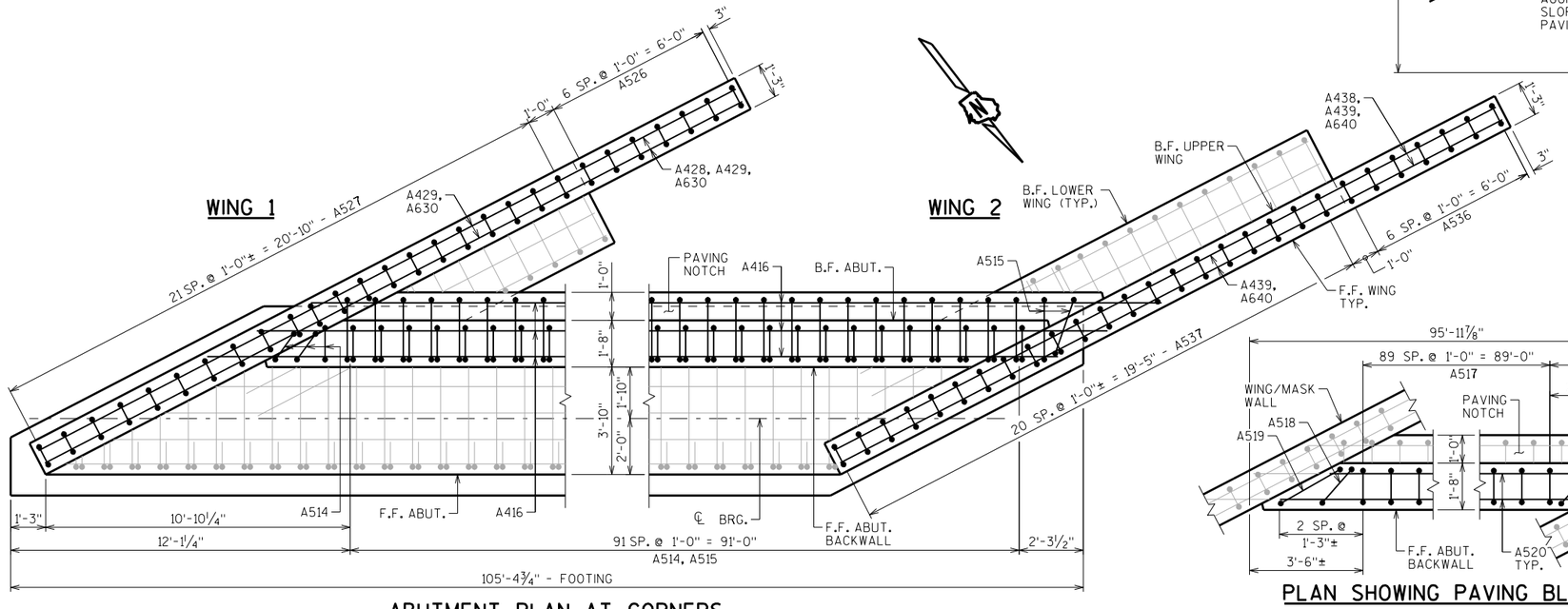
(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



ABUTMENT PLAN AT CORNERS

(SHOWING BAR STEEL REINFORCEMENT IN ABUTMENT BODY AND LOWER WING BODY)



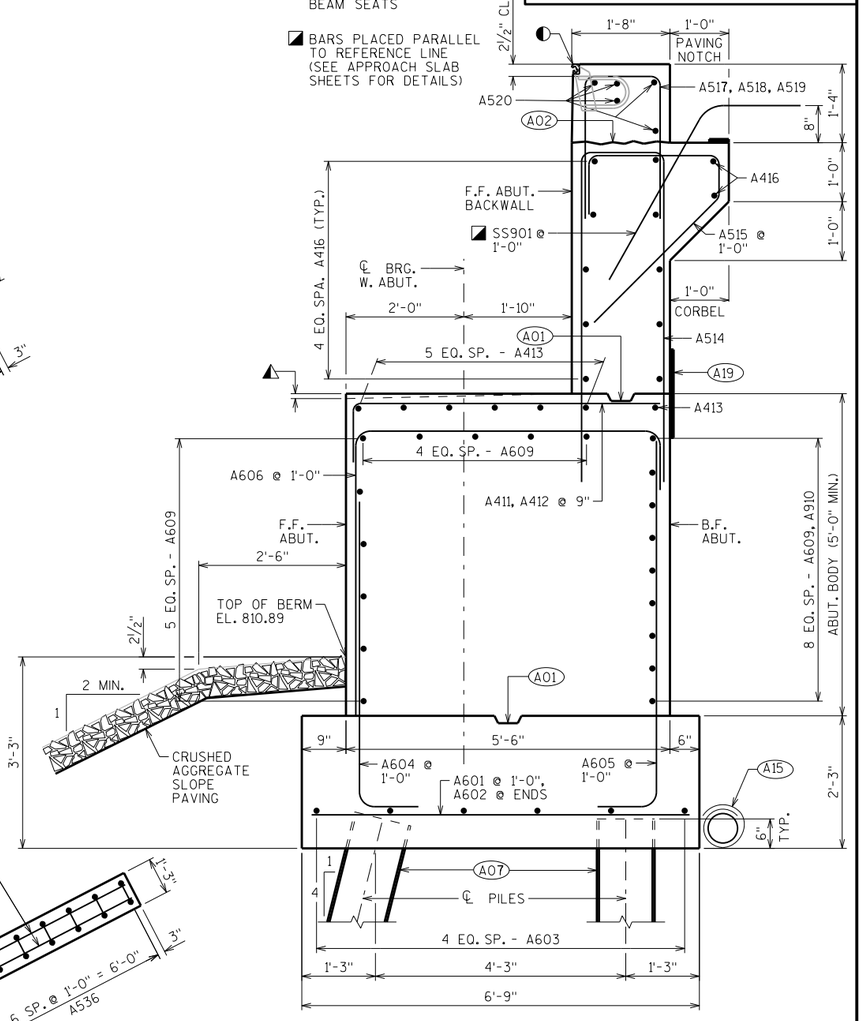
ABUTMENT PLAN AT CORNERS

(SHOWING BAR STEEL REINFORCEMENT IN ABUTMENT BACKWALL AND UPPER WING WALLS)

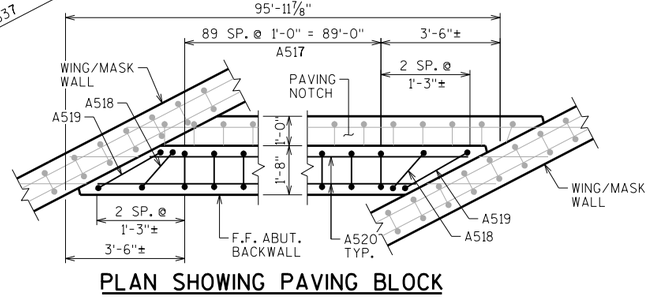
◐ THE TOP OF PAVING BLOCK ELEVATIONS ARE GIVEN HERE AT THE F.F. OF BACKWALL

◭ SLOPE 1" DOWN BETWEEN BEAM SEATS

◪ BARS PLACED PARALLEL TO REFERENCE LINE (SEE APPROACH SLAB SHEETS FOR DETAILS)



SECTION THRU BODY



PLAN SHOWING PAVING BLOCK REINFORCEMENT AT CORNERS

STATE PROJECT NUMBER

1146-75-71

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

WEST ABUTMENT DETAILS 1

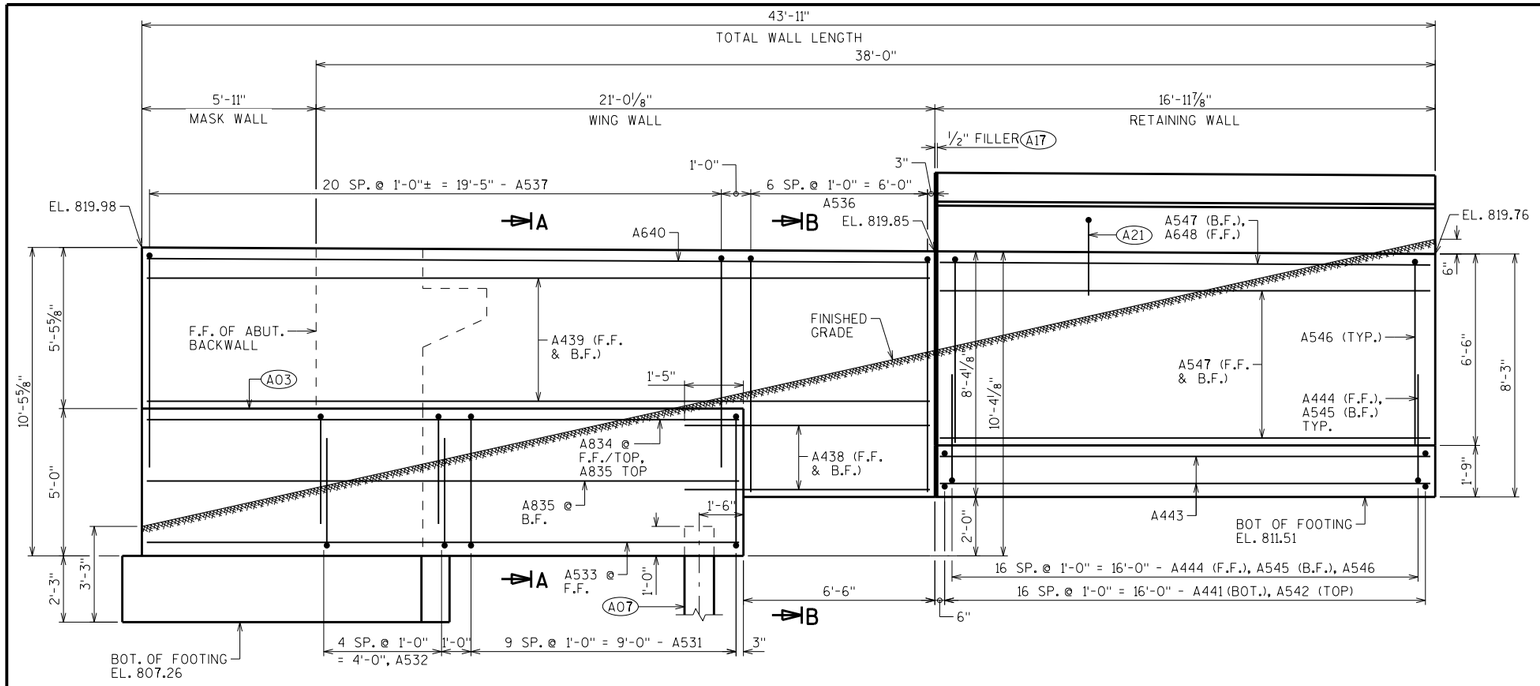
SHEET 7

268

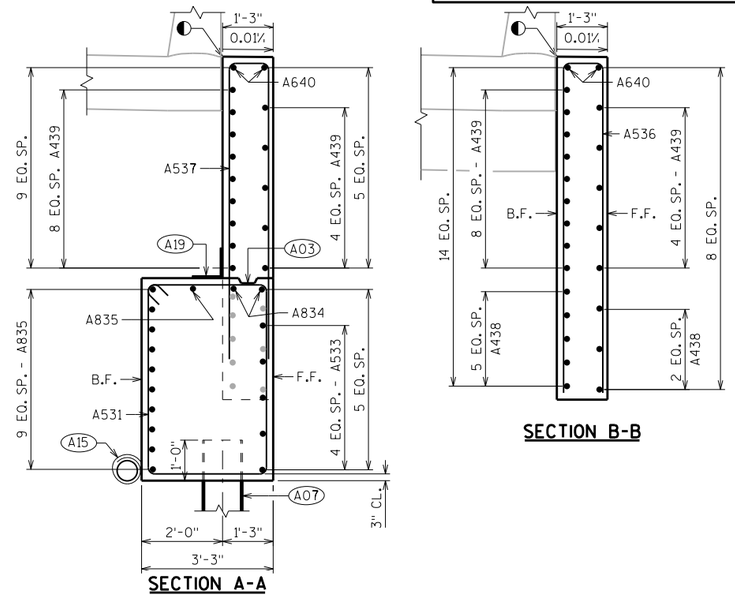
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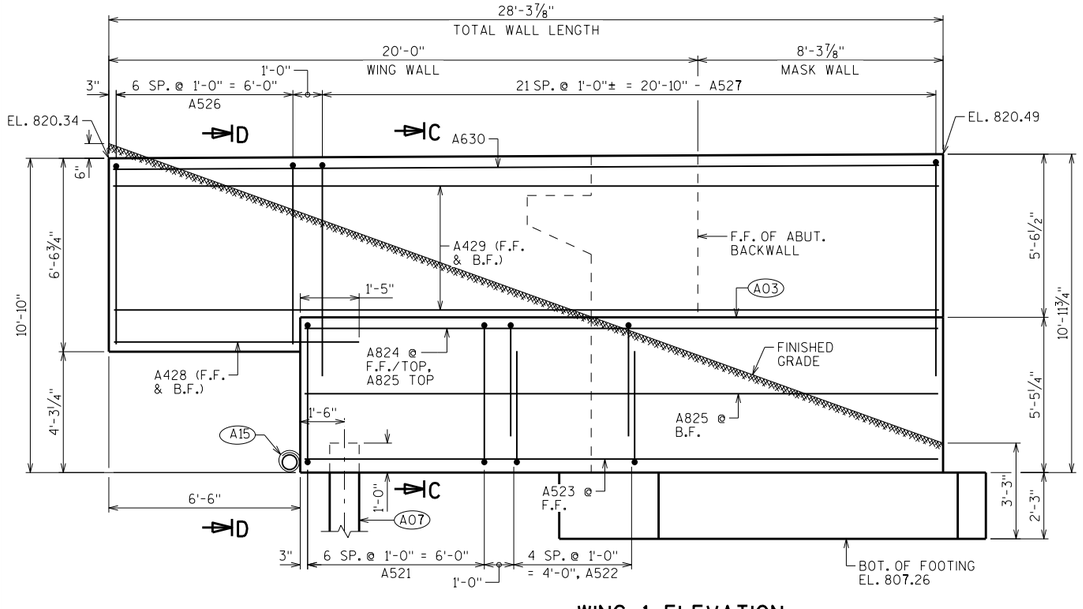
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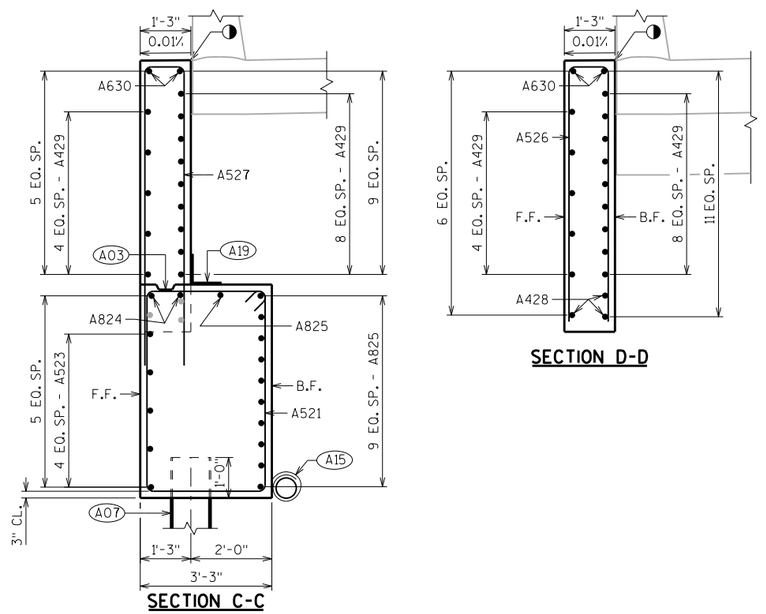
WING 2 ELEVATION



SECTIONS THRU WING 2



WING 1 ELEVATION



SECTIONS THRU WING 1

A03 OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

A07 SUPPORT ABUTMENT ON HP 12 x 53 STEEL PILING, ESTIMATED 35'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 200 TONS PER PILE.

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

A17 1/2" FILLER: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

A19 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

A21 FOR PPT. BARS & DIMENSIONS SEE PARAPET SHEET.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

WEST ABUTMENT DETAILS 2

SHEET 8

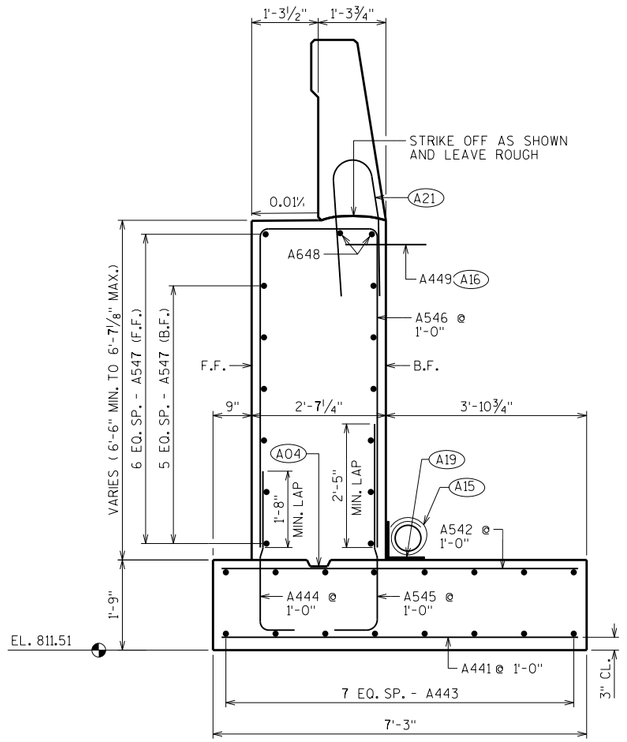
269

STATE PROJECT NUMBER
1146-75-71

8

8

SCALE = 5.00



SECTION THRU RETAINING WALL

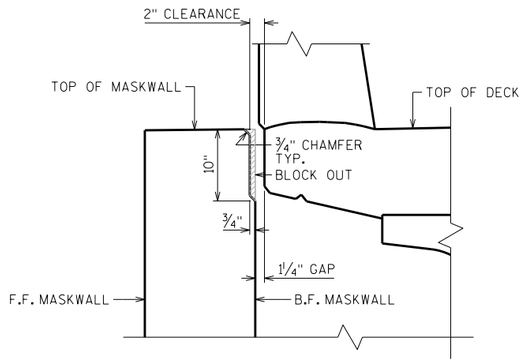
(A04) CONST. JOINT FORMED BY SURFACED, BEVELED 2 X 6.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A16) BARS SPACED @ 1'-0" CTRS. EMBED 1'-0" INTO WALL CONC. LOCATE 3" DOWN FROM TOP OF WALL @ END OF APPROACH SLAB TO 6" DOWN @ END OF WALL.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

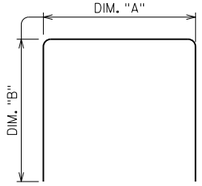
(A21) FOR PPT. BARS & DIMENSIONS SEE PARAPET SHEET.



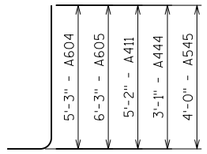
SECTION AT MASKWALL

(SHOWING CLEARANCE BETWEEN EDGE OF DECK AND MASK WALL)

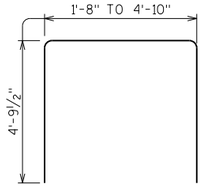
BAR MARK	DIM "A"	DIM. "B"
A514	1'-4"	5'-8"
A517	1'-4"	2'-8"
A518	1'-9½"	2'-8"
A519	2'-8"	2'-8"
A522	2'-11"	3'-10"
A526	11"	6'-2"
A527	11"	7'-5"
A532	2'-11"	3'-7"
A536	11"	8'-0"
A537	11"	7'-4"
A546	2'-3"	6'-4"



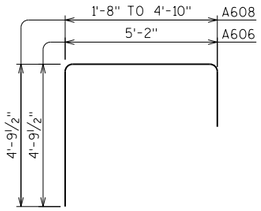
A514, A517, A518, A519, A522, A526 A527, A532, A536, A537, A546



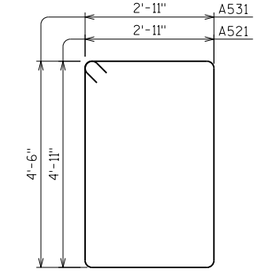
A604, A605, A411 A444, A545



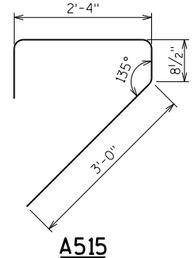
A607



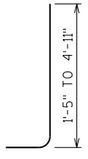
A606, A608



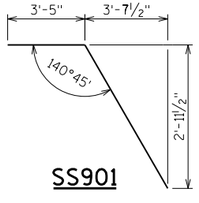
A521, A531



A515



A412



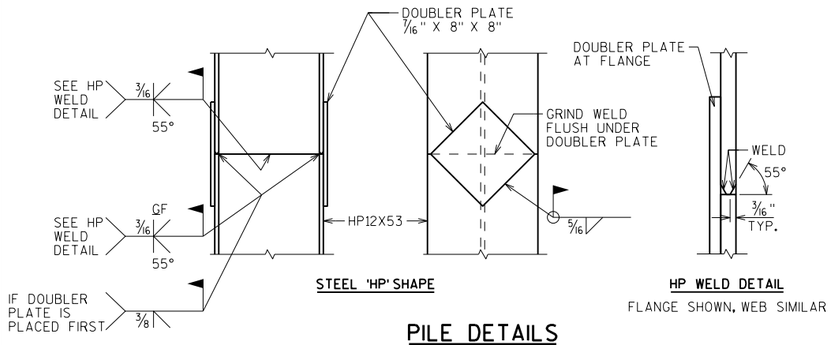
SS901

STAINLESS STEEL REINFORCEMENT

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
A603	2 SERIES OF 6	45'-6" TO 57'-6"
A607	1 SERIES OF 7	11'-0" TO 14'-2"
A608	1 SERIES OF 7	7'-11" TO 11'-5"
A412	1 SERIES OF 10	2'-0" TO 5'-6"

BUNDLE AND TAG EACH SERIES SEPARATELY.



STEEL 'HP' SHAPE

HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

PILE DETAILS

STATE PROJECT NUMBER

1146-75-71

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A601		88	6'-5"			FOOTING-BOT.-HORIZ.-TRANS.
A602		12	10'-0"			FOOTING-BOT.-HORIZ.-TRANS.
A603		12	51'-6"		⚠	FOOTING-BOT.-HORIZ.-LONGIT.
A604		95	6'-1"	X		FOOTING/BODY-F.F.-VERT.-TRANS.
A605		95	7'-1"	X		FOOTING/BODY-B.F.-VERT.-TRANS.
A606		88	11'-5"	X		BODY-F.F.-VERT.-TRANS.
A607		7	12'-7"	X	⚠	BODY-F.F.-VERT.-TRANS.-END
A608		7	9'-8"	X	⚠	BODY-F.F.-VERT.-TRANS.-END
A609		39	34'-5"			BODY-F.F./B.F./TOP-HORIZ.-LONGIT.
A910		18	34'-5"			BODY-B.F.-HORIZ.-LONGIT.
A411		77	6'-1"	X		BODY-TOP-HORIZ.-TRANS.
A412		10	3'-9"	X	⚠	BODY-TOP-HORIZ.-TRANS.-END
A413		14	33'-7"			BODY-TOP-HORIZ.-LONGIT.
A514	X	95	12'-5"	X		BACKWALL/BODY-VERT.-TRANS.
A515	X	94	6'-7"	X		BACKWALL/CORBEL-TOP-VERT.-TRANS.
A416	X	48	26'-2"			BACKWALL/BODY-F.F.&B.F.-HORIZ.-LONGIT.
A517	X	90	6'-5"	X		BACKWALL/PAVING BLOCK-VERT.-TRANS.
A518	X	2	6'-11"	X		BACKWALL/PAVING BLOCK-VERT.-TRANS.
A519	X	2	7'-9"	X		BACKWALL/PAVING BLOCK-VERT.-TRANS.
A520	X	65	8'-0"			PAVING BLOCK-HORIZ.-LONGIT.
A521	X	7	16'-4"	X		WING 1-BODY-VERT.-STIRRUP
A522	X	10	10'-4"	X		WING 1-BODY-VERT.-STIRRUP
A523	X	5	21'-6"			WING 1-BODY-F.F.-HORIZ.
A824	X	2	21'-6"			WING 1-BODY-F.F.-HORIZ.
A825	X	11	14'-0"			WING 1-BODY-TOP&B.F.-HORIZ.
A526	X	7	13'-0"	X		WING 1-WALL-VERT.-END
A527	X	22	15'-6"	X		WING 1-WALL/BODY-VERT.
A428	X	3	7'-9"			WING 1-WALL/BODY-HORIZ.-END
A429	X	14	28'-0"			WING 1-WALL-F.F.&B.F.-HORIZ.
A630	X	2	28'-0"			WING 1-WALL-F.F.&B.F.-TOP-HORIZ.
A531	X	10	15'-6"	X		WING 2-BODY-VERT.-STIRRUP
A532	X	10	9'-10"	X		WING 2-BODY-VERT.-STIRRUP
A533	X	5	20'-4"			WING 2-BODY-F.F.-HORIZ.
A834	X	2	20'-4"			WING 2-BODY-F.F.-HORIZ.
A835	X	11	18'-0"			WING 2-BODY-TOP&B.F.-HORIZ.
A536	X	7	16'-8"	X		WING 2-WALL-VERT.-END
A537	X	21	15'-4"	X		WING 2-WALL/BODY-VERT.
A438	X	8	7'-9"			WING 2-WALL/BODY-HORIZ.-END
A439	X	14	26'-7"			WING 2-WALL-F.F.&B.F.-HORIZ.
A640	X	2	26'-7"			WING 2-WALL-F.F.&B.F.-TOP-HOR
A441		17	6'-11"			RET. WALL-FOOTING-BOT.-TRANS.
A542		17	6'-11"			RET. WALL-FOOTING-TOP-TRANS.
A443		16	16'-7"			RET. WALL-FOOTING-TOP&BOT.-LONGIT.
A444	X	17	3'-8"	X		RET. WALL-FOOTING/WALL-F.F.-VERT.
A545	X	17	4'-9"	X		RET. WALL-FOOTING/WALL-B.F.-VERT.
A546	X	17	14'-8"	X		RET. WALL-WALL-VERT.
A547	X	13	16'-7"			RET. WALL-WALL-F.F.&B.F.-HORIZ.
A648	X	2	16'-7"			RET. WALL-WALL-TOP-HORIZ.
A449	X	17	2'-0"			RET. WALL-SURFACE DRAIN ANCHORS
SS901		43	8'-1"	X		APPROACH SLAB/CORBEL/BACKWALL-VERT.

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

WEST ABUTMENT DETAILS 3

SHEET 9

270

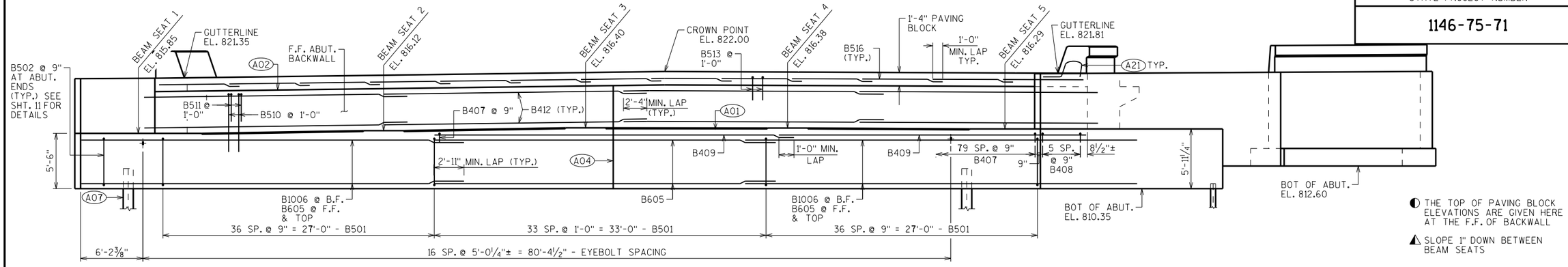
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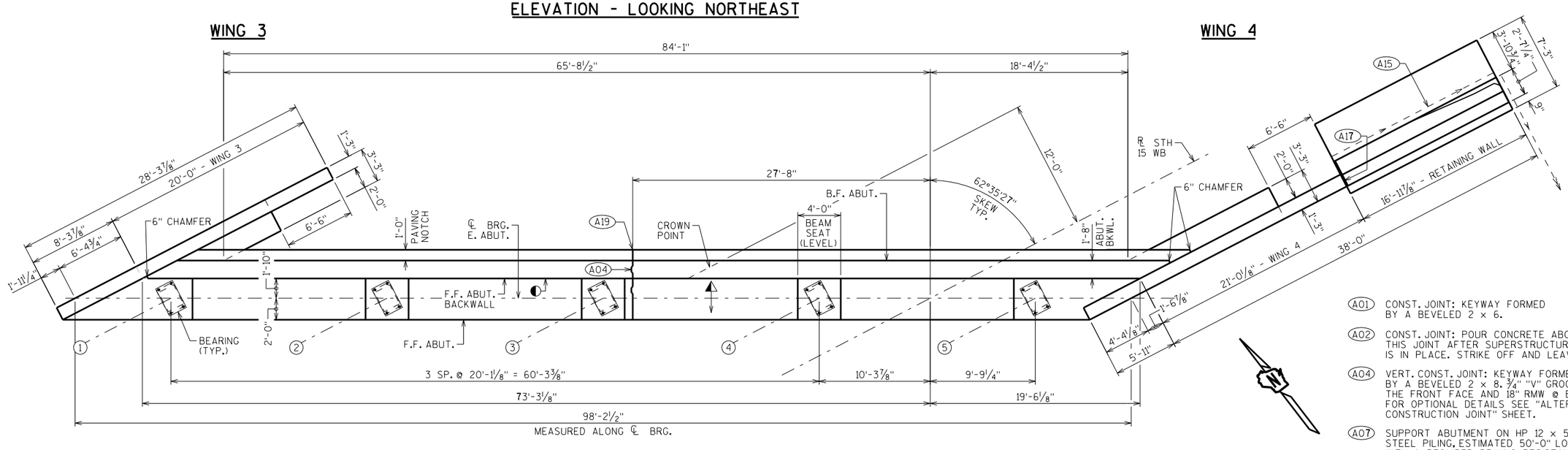
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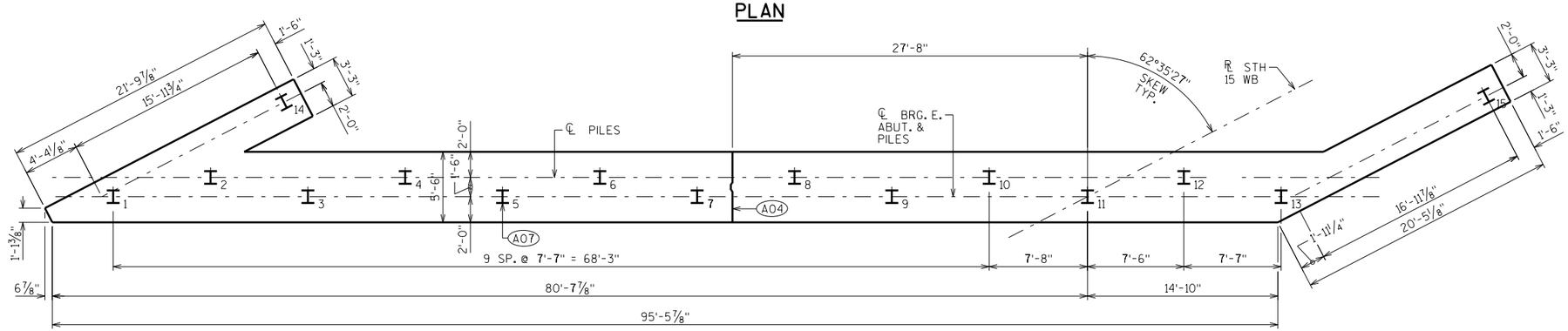
1146-75-71



ELEVATION - LOOKING NORTHEAST



PLAN



PILE PLAN

A01 CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 × 6.

A02 CONST. JOINT: POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.

A04 VERT. CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 × 8. ¾" "V" GROOVE @ THE FRONT FACE AND 18" RMW @ BACKFACE. FOR OPTIONAL DETAILS SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.

A07 SUPPORT ABUTMENT ON HP 12 × 53 STEEL PILING, ESTIMATED 50'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

A17 ½" FILLER: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

A19 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

A21 FOR PPT. BARS & DIMENSIONS SEE PARAPET SHEET.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

EAST ABUTMENT

SHEET 10

271

SCALE = 5.00

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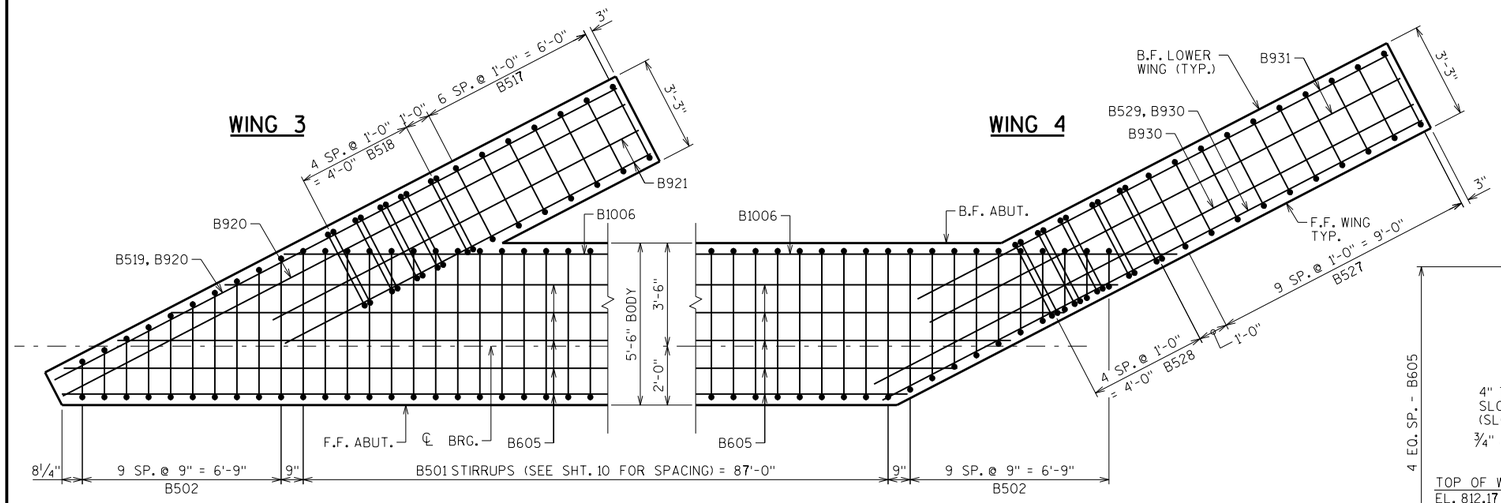
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(A01) CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 × 6.

(A02) CONST. JOINT: POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.

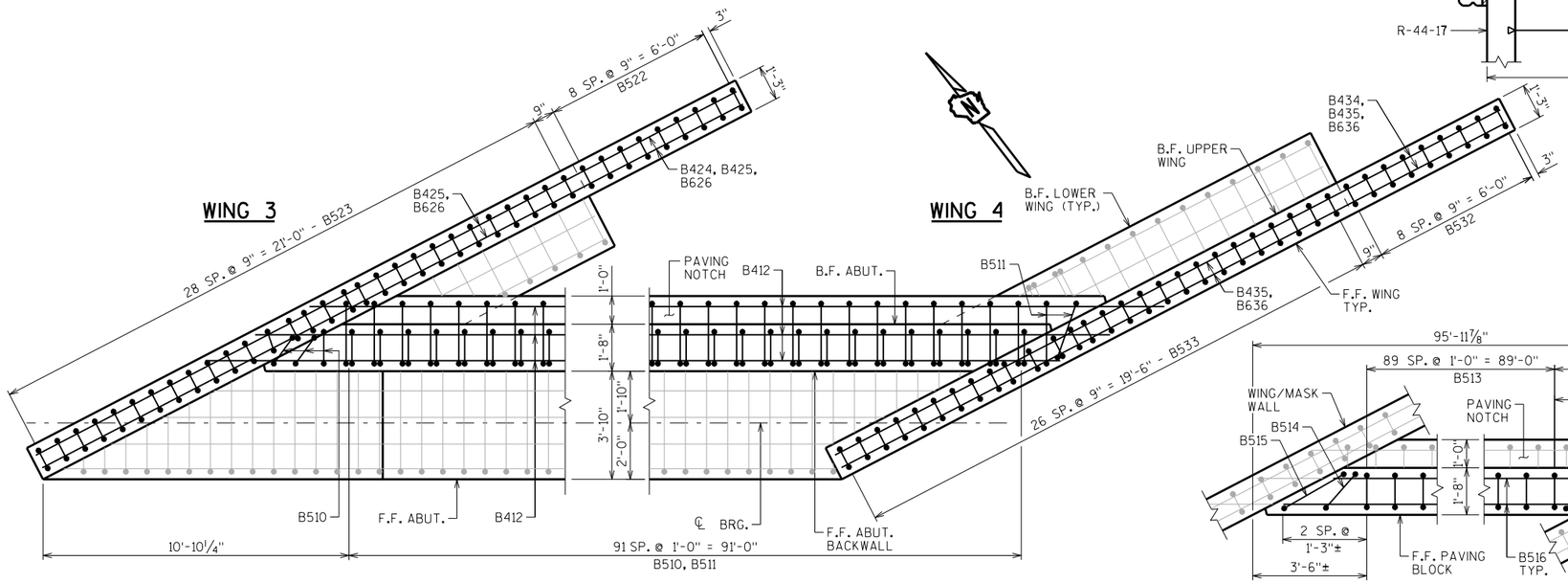
(A07) SUPPORT ABUTMENT ON HP 12 × 53 STEEL PILING, ESTIMATED 50'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



ABUTMENT PLAN AT CORNERS

(SHOWING BAR STEEL REINFORCEMENT IN ABUTMENT BODY AND LOWER WING BODY)



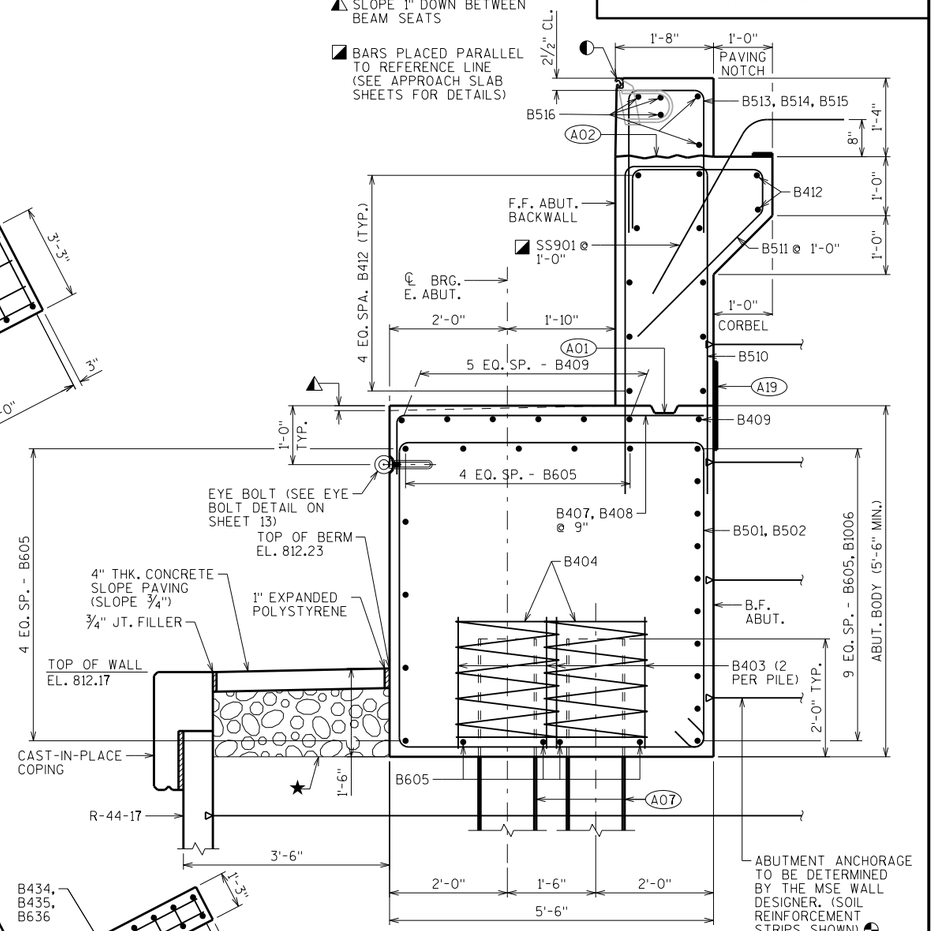
ABUTMENT PLAN AT CORNERS

(SHOWING BAR STEEL REINFORCEMENT IN ABUTMENT BACKWALL AND UPPER WING WALLS)

◐ THE TOP OF PAVING BLOCK ELEVATIONS ARE GIVEN HERE AT THE F.F. OF BACKWALL

◭ SLOPE 1" DOWN BETWEEN BEAM SEATS

◪ BARS PLACED PARALLEL TO REFERENCE LINE (SEE APPROACH SLAB SHEETS FOR DETAILS)

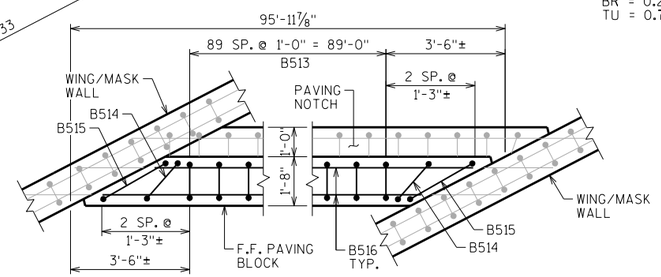


SECTION THRU BODY

★ MSE BACKFILL OR SIZE NO. 2 COURSE AGGREGATE. COST INCIDENTAL TO BID ITEM "SLOPE PAVING CONCRETE".

◓ UNFACTORED SUPERSTRUCTURE LATERAL LOADS TRANSFERRED TO THE ABUTMENT ARE TAKEN TO BE KIPS PER FOOT OF ABUTMENT LENGTH. THE VALUES ARE TO BE USED FOR THE LRFD DESIGN OF THE ABUTMENT ANCHORAGE BY THE MSE MANUFACTURER (MSE SYSTEM, DEADMAN ANCHOR, OTHER). THE FOLLOWING AASHTO LINE LOADS SHALL BE NOTED ON THE PLAN:

BR = 0.20 KLF WS = 0.18 KLF
TU = 0.73 KLF WL = 0.05 KLF



PLAN SHOWING PAVING BLOCK REINFORCEMENT AT CORNERS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

EAST ABUTMENT DETAILS 1

SHEET 11

272

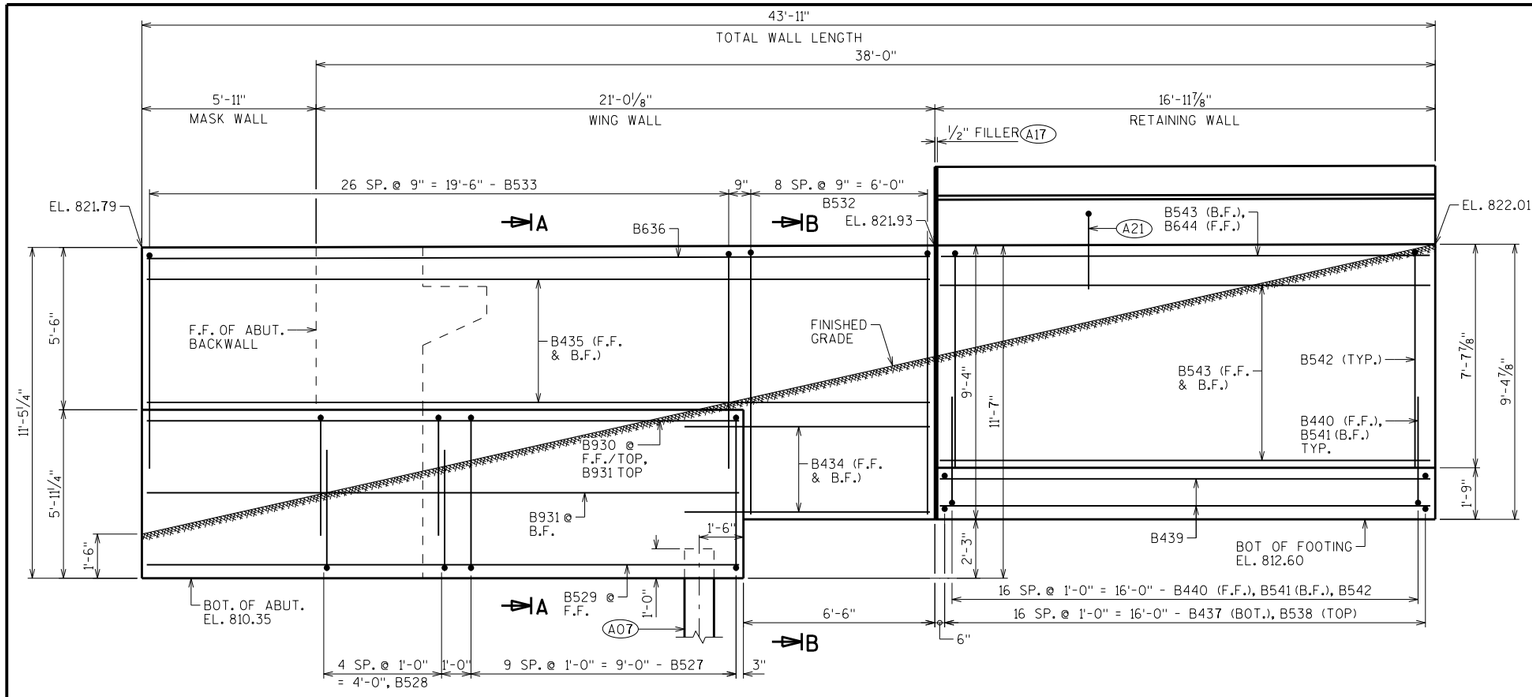
STATE PROJECT NUMBER

1146-75-71

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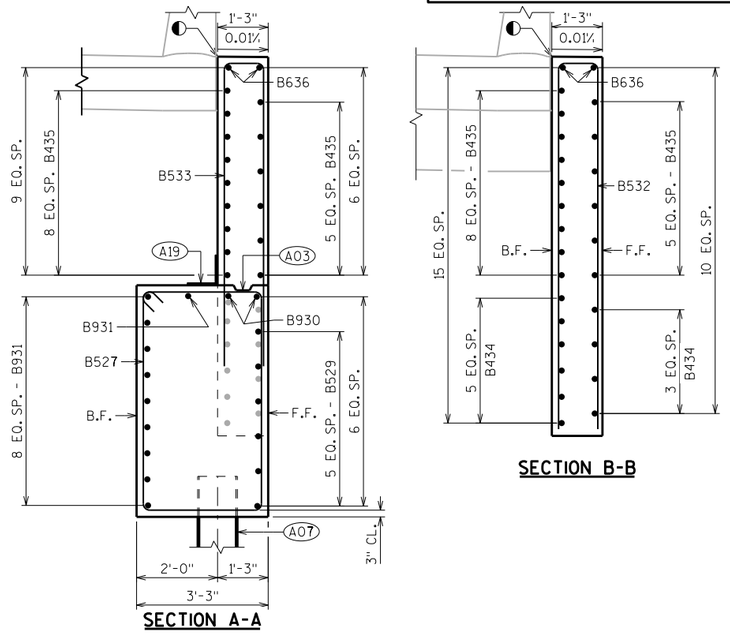
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8



WING 4 ELEVATION

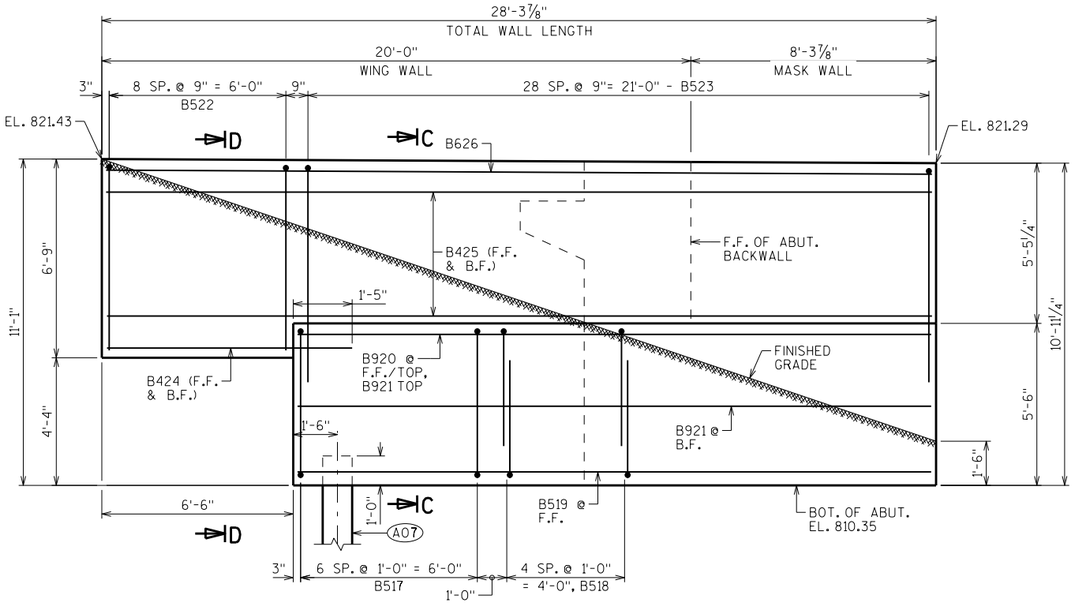
THE TOP OF WING ELEVATIONS ARE GIVEN AT THE B.F. OF WING



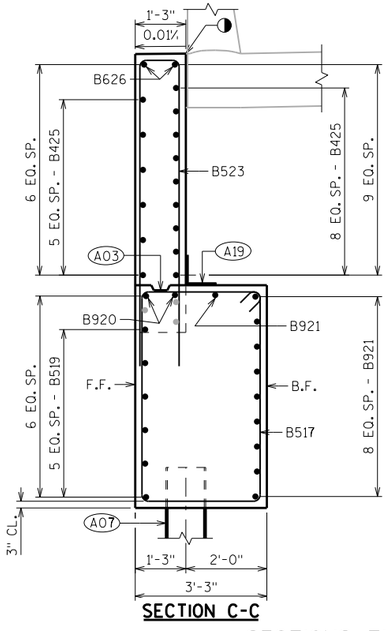
SECTION A-A

SECTION B-B

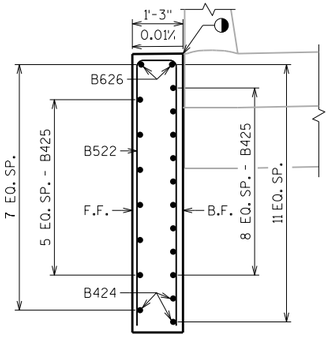
SECTIONS THRU WING 4



WING 3 ELEVATION



SECTION C-C



SECTION D-D

SECTIONS THRU WING 3

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 × 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

(A07) SUPPORT ABUTMENT ON HP 12 × 53 STEEL PILING, ESTIMATED 50'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

(A17) 1/2" FILLER: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(A21) FOR PPT. BARS & DIMENSIONS SEE PARAPET SHEET.

STATE PROJECT NUMBER

1146-75-71

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

EAST ABUTMENT DETAILS 2

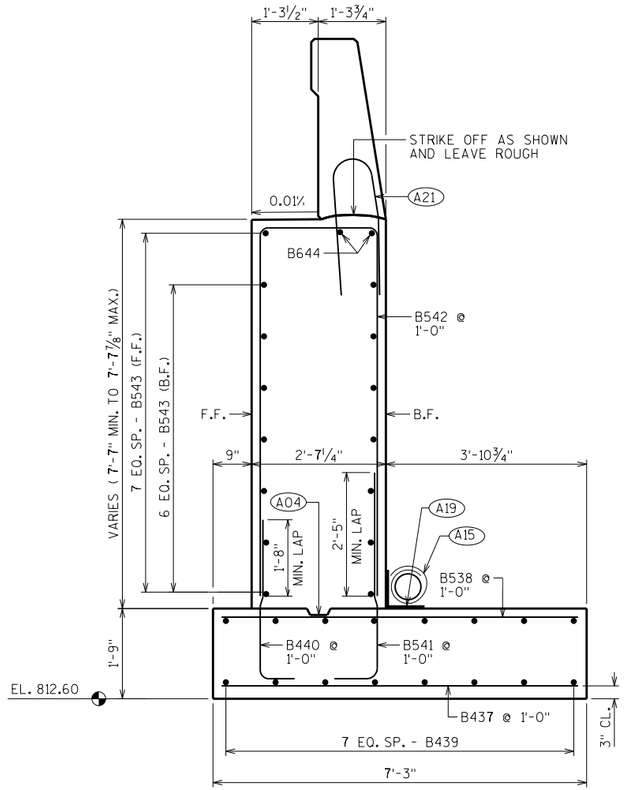
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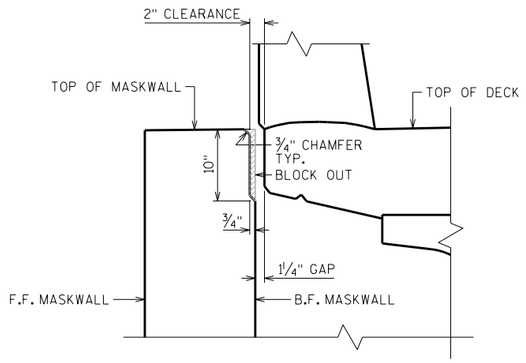
SECTION THRU RETAINING WALL

(A04) CONST. JOINT FORMED BY SURFACED, BEVELED 2 X 6.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

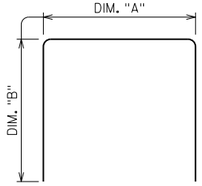
(A21) FOR PPT. BARS & DIMENSIONS SEE PARAPET SHEET.



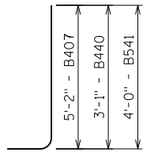
SECTION AT MASKWALL

(SHOWING CLEARANCE BETWEEN EDGE OF DECK AND MASK WALL)

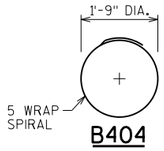
BAR MARK	DIM "A"	DIM. "B"
B510	1'-4"	5'-8"
B513	1'-4"	2'-8"
B514	1'-9½"	2'-8"
B515	2'-8"	2'-8"
B518	2'-11"	3'-10"
B522	11"	6'-4"
B523	11"	7'-5"
B528	2'-11"	3'-11"
B532	11"	8'-11"
B533	11"	7'-5"
B542	2'-3"	7'-4½"



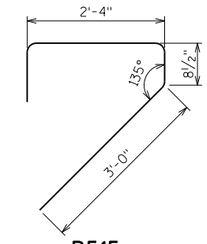
B510, B513, B514, B515, B518, B522 B523, B528, B532, B533, B542



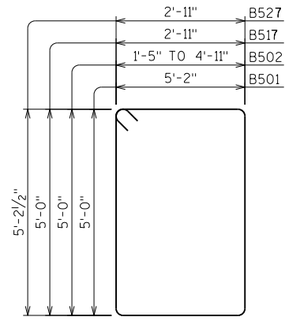
B407, B440, B541



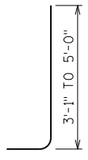
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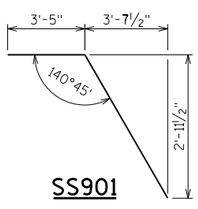
B515



B501, B502, B517, B527



B408



SS901

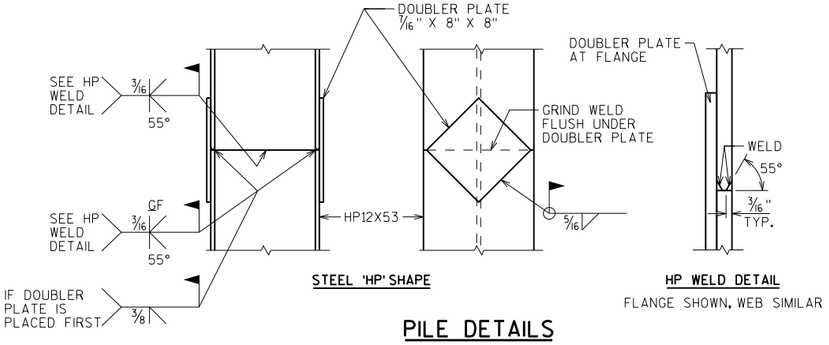
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		106	21'-0"	X		BODY-STIRRUP-VERT.
B502		20	17'-0"	X	⚠	BODY-STIRRUP-VERT.-ENDS
B403		26	2'-3"			PILE-VERT.-2 PER BODY PILE
B404		13	28'-0"	X		PILE-SPIRAL-1 PER BODY PILE
B605		49	34'-5"			BODY-F.F./B.F./TOP-HORIZ.-LONGIT.
B1006		20	34'-5"			BODY-B.F.-HORIZ.-LONGIT.
B407		80	6'-1"	X		BODY-TOP-HORIZ.-TRANS.
B408		6	4'-8"	X	⚠	BODY-TOP-HORIZ.-TRANS.-END
B409		14	32'-10			BODY-TOP-HORIZ.-LONGIT.
B510	X	95	12'-5"	X		BACKWALL/BODY-VERT.-TRANS.
B511	X	94	6'-7"	X		BACKWALL/CORBEL-TOP-VERT.-TRANS.
B412	X	48	26'-2"			BACKWALL/BODY-F.F.&B.F.-HORIZ.-LONGIT.
B513	X	90	6'-5"	X		BACKWALL/PAVING BLOCK-VERT.-TRANS.
B514	X	2	6'-11"	X		BACKWALL/PAVING BLOCK-VERT.-TRANS.
B515	X	2	7'-9"	X		BACKWALL/PAVING BLOCK-VERT.-TRANS.
B516	X	65	8'-0"			PAVING BLOCK-HORIZ.-LONGIT.
B517	X	7	16'-6"	X		WING 3-BODY-VERT.-STIRRUP
B518	X	10	10'-4"	X		WING 3-BODY-VERT.-STIRRUP
B519	X	6	21'-6"			WING 3-BODY-F.F.-HORIZ.
B920	X	2	21'-6"			WING 3-BODY-F.F.-HORIZ.
B921	X	10	14'-0"			WING 3-BODY-TOP&B.F.-HORIZ.
B522	X	9	13'-4"	X		WING 3-WALL-VERT.-END
B523	X	29	15'-6"	X		WING 3-WALL/BODY-VERT.
B424	X	3	7'-9"			WING 3-WALL/BODY-HORIZ.-END
B425	X	15	28'-0"			WING 3-WALL-F.F.&B.F.-HORIZ.
B626	X	2	28'-0"			WING 3-WALL-F.F.&B.F.-TOP-HORIZ.
B527	X	10	16'-11"	X		WING 4-BODY-VERT.-STIRRUP
B528	X	10	10'-6"	X		WING 4-BODY-VERT.-STIRRUP
B529	X	6	20'-3"			WING 4-BODY-F.F.-HORIZ.
B930	X	2	20'-3"			WING 4-BODY-F.F.-HORIZ.
B931	X	10	19'-0"			WING 4-BODY-TOP&B.F.-HORIZ.
B532	X	9	18'-6"	X		WING 4-WALL-VERT.-END
B533	X	27	15'-6"	X		WING 4-WALL/BODY-VERT.
B434	X	10	7'-9"			WING 4-WALL/BODY-HORIZ.-END
B435	X	15	26'-7"			WING 4-WALL-F.F.&B.F.-HORIZ.
B636	X	2	26'-7"			WING 4-WALL-F.F.&B.F.-TOP-HORIZ.
B437		17	6'-11"			RET. WALL-FOOTING-BOT.-TRANS.
B538		17	6'-11"			RET. WALL-FOOTING-TOP-TRANS.
B439		16	16'-7"			RET. WALL-FOOTING-TOP&BOT.-LONGIT.
B440	X	17	3'-8"	X		RET. WALL-FOOTING/WALL-F.F.-VERT.
B541	X	17	4'-9"	X		RET. WALL-FOOTING/WALL-B.F.-VERT.
B542	X	17	16'-9"	X		RET. WALL-WALL-VERT.
B543	X	15	16'-7"			RET. WALL-WALL-F.F.&B.F.-HORIZ.
B644	X	2	16'-7"			RET. WALL-WALL-TOP-HORIZ.
SS901		43	8'-1"	X		APPROACH SLAB/CORBEL/BACKWALL-VERT.

STAINLESS STEEL REINFORCEMENT

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

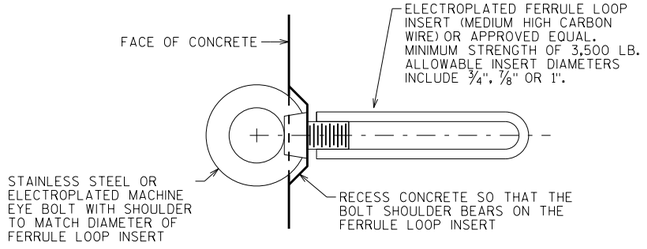


STEEL 'HP' SHAPE

HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

PILE DETAILS



EYE BOLT DETAIL

COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
B502	2 SERIES OF 10	13'-6" TO 20'-6"
B408	1 SERIES OF 6	3'-8" TO 5'-7"

BUNDLE AND TAG EACH SERIES SEPARATELY.

STATE PROJECT NUMBER

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

EAST ABUTMENT DETAILS 3

SHEET 13

274

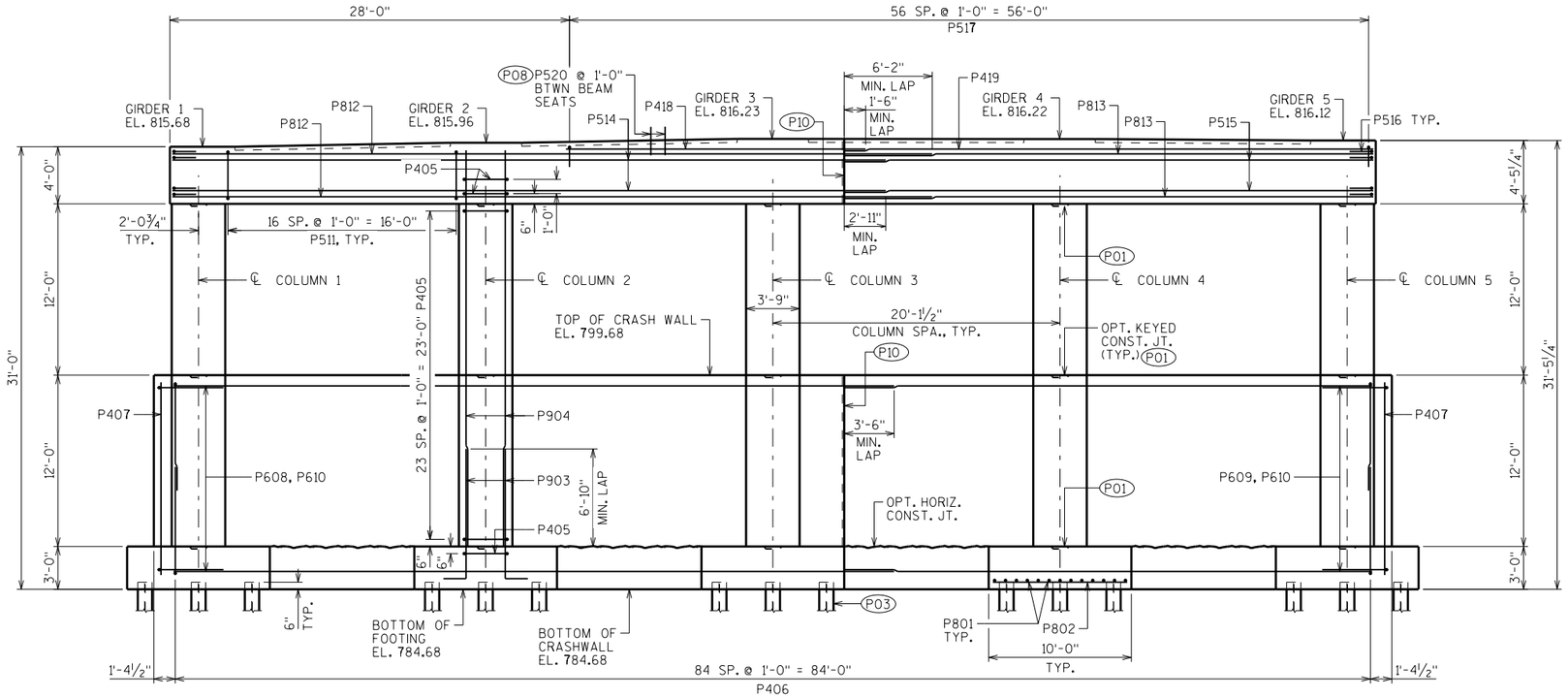
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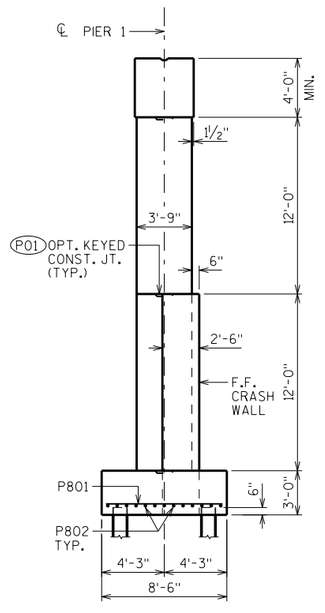
STATE PROJECT NUMBER

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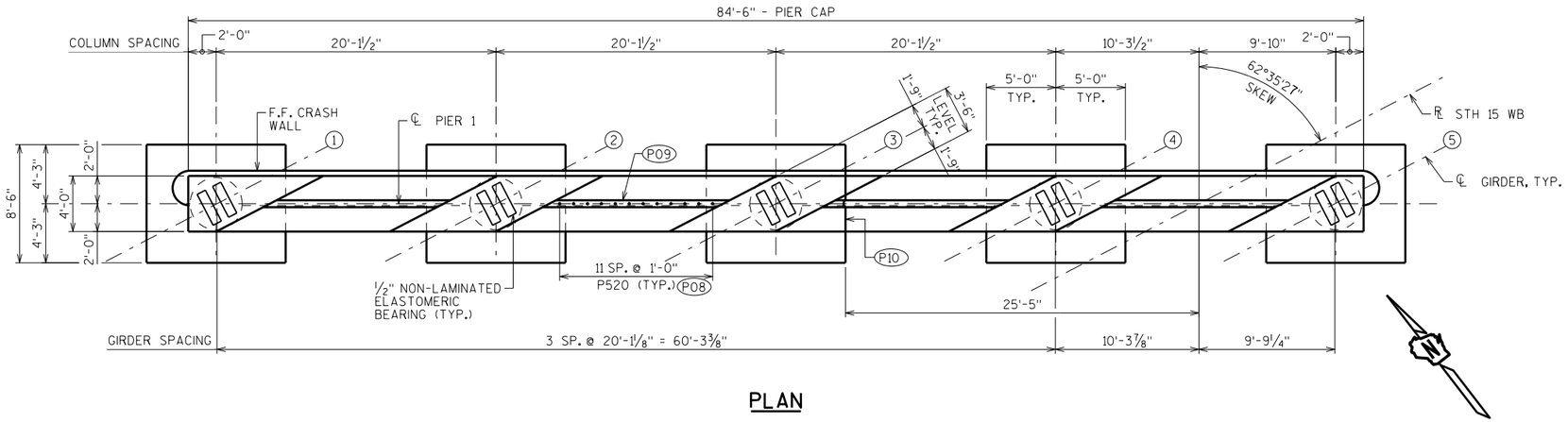
ELEVATION

(LOOKING NORTHEAST - UPSTATION)



SIDE VIEW

(LOOKING NORTHWEST)



PLAN

P01 1'-3" x 1'-3" x 2" CONST. JOINT FORMED BY BEVELED KEYWAY.

P03 SUPPORT PIER ON HP 12 x 53 STEEL PILING, ESTIMATED 15'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

P08 P520 BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

P09 KEYED CONST. JOINT-FORMED BY BEVELED 2 x 6 BETWEEN BEAM SEATS.

P10 VERT. CONST. JOINT FORMED BY BEVELED 2 x 6.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

PIER 1

SHEET 14

275

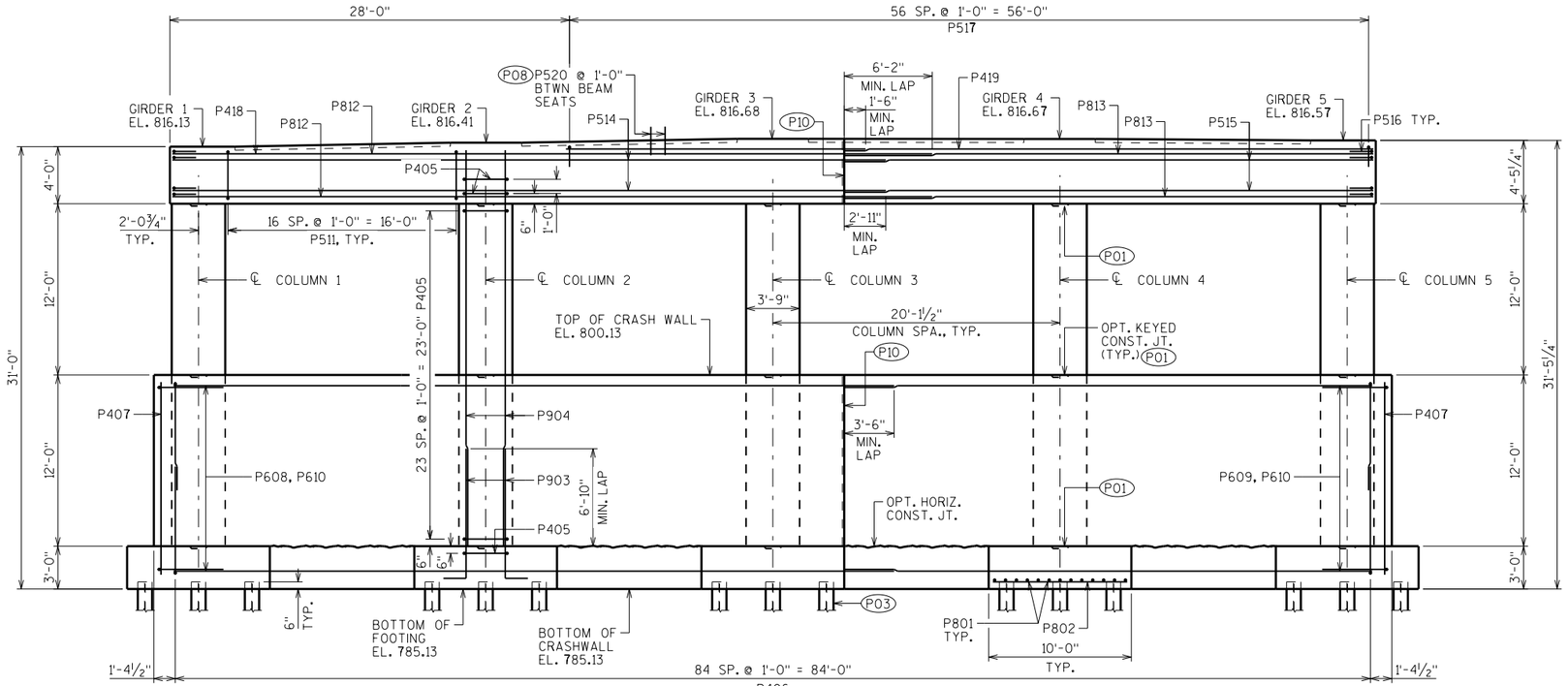
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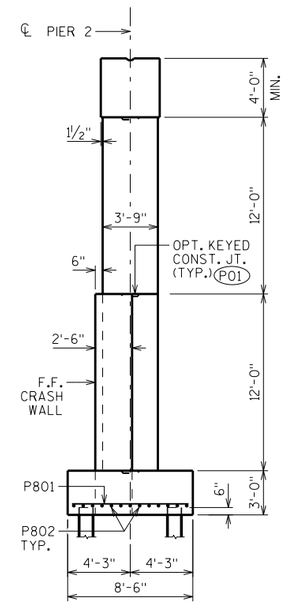
STATE PROJECT NUMBER

1146-75-71



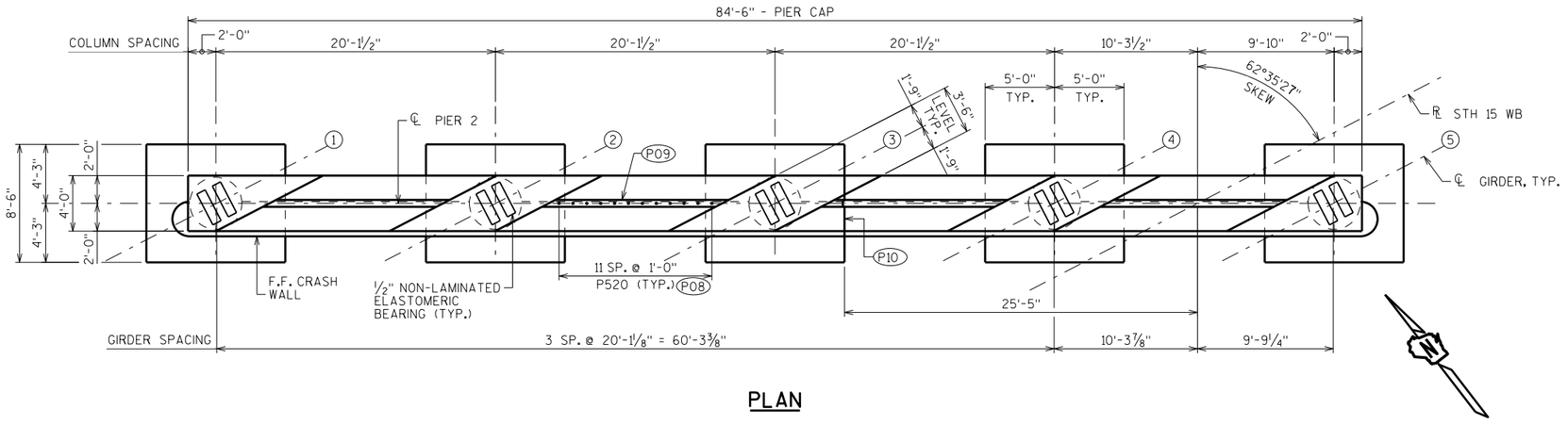
ELEVATION

(LOOKING NORTHEAST - UPSTATION)



SIDE VIEW

(LOOKING NORTHWEST)



PLAN

P01 1'-3" x 1'-3" x 2" CONST. JOINT FORMED BY BEVELED KEYWAY.

P03 SUPPORT PIER ON HP 12 x 53 STEEL PILING, ESTIMATED 20'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

P08 P520 BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

P09 KEYED CONST. JOINT-FORMED BY BEVELED 2 x 6 BETWEEN BEAM SEATS.

P10 VERT. CONST. JOINT FORMED BY BEVELED 2 x 6.

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STRUCTURE B-44-290

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PIER 2

SHEET 15

276

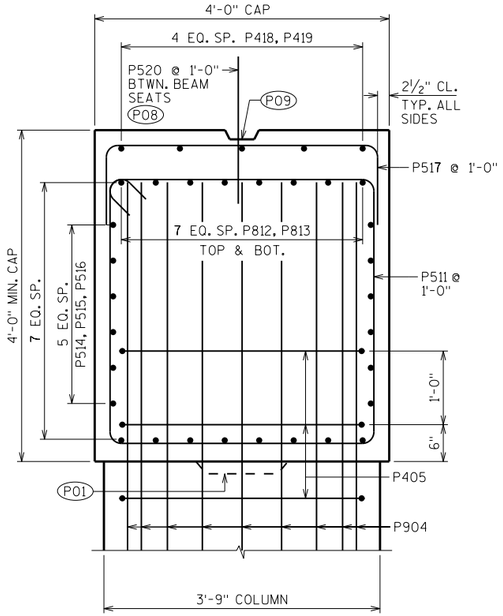
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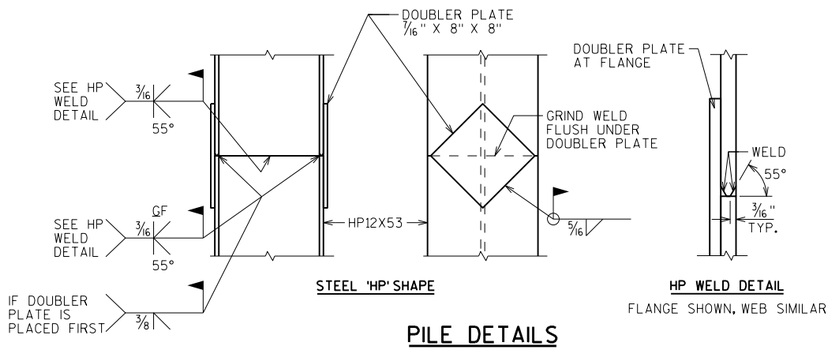
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STATE PROJECT NUMBER

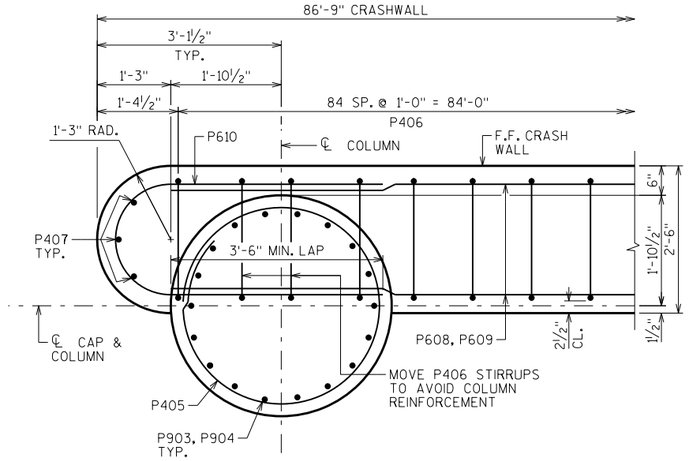
1146-75-71



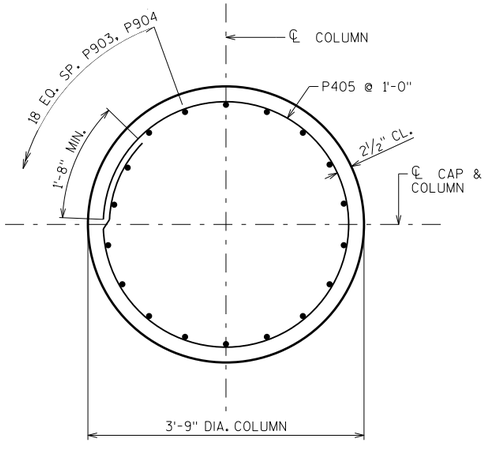
SECTION THRU CAP



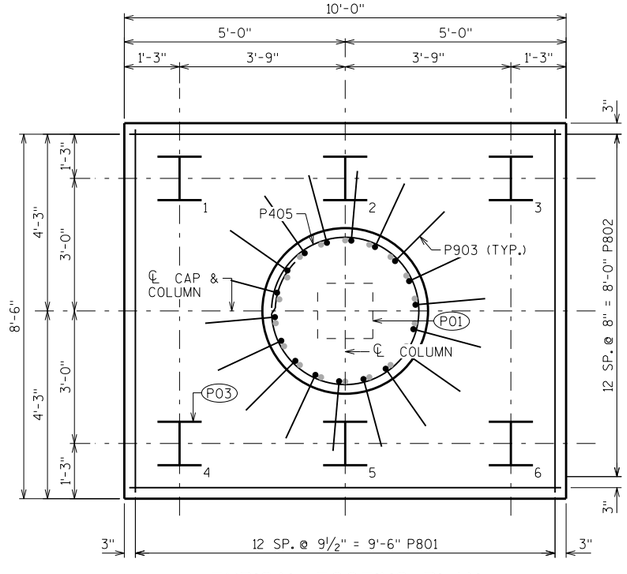
PILE DETAILS



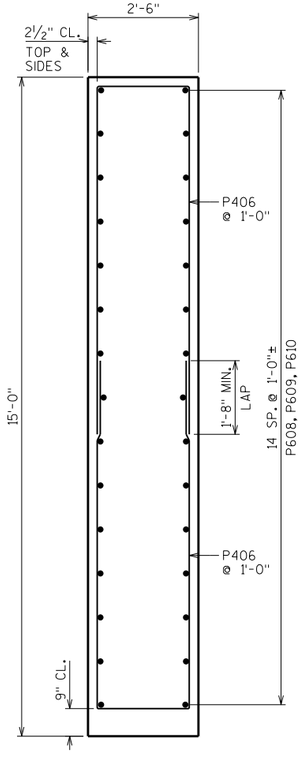
CRASHWALL END DETAIL



SECTION THRU COLUMN



TYPICAL FOOTING PLAN



SECTION THRU CRASH WALL

(P01) 1'-3" x 1'-3" x 2" CONST. JOINT FORMED BY BEVELED KEYWAY.

(P03) SUPPORT PIER ON HP 12 x 53 STEEL PILING, ESTIMATED 15'-0" LONG AT PIER 1 & 20'-0" LONG AT PIER 2 WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

(P08) P520 BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

(P09) KEYED CONST. JOINT-FORMED BY BEVELED 2 x 6 BETWEEN BEAM SEATS.

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PIER DETAILS 1

SHEET 16

277

SCALE = 5.00

8

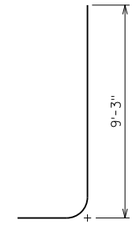
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STATE PROJECT NUMBER
1146-75-71

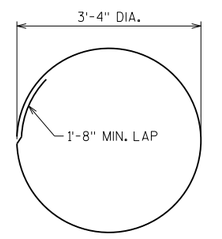
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

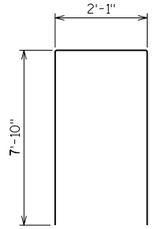
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
P801		130	8'-2"			FOOTING-BOT.-TRANS.
P802		130	9'-8"			FOOTING-BOT.-LONGIT.
P903		180	10'-7"	X		FOOTING/COLUMN-DOWELS-VERT.
P904		180	27'-9"			COLUMN-VERT.
P405		270	12'-3"	X		COLUMN-TIES-HORIZ.
P406		340	17'-7"	X		CRASHWALL-VERT.
P407		12	14'-0"			CRASHWALL-VERT.-ENDS
P608		60	50'-9"			CRASHWALL-HORIZ.
P609		60	37'-2"			CRASHWALL-HORIZ.
P610		60	10'-1"	X		CRASHWALL-HORIZ.-ENDS
P511		136	15'-0"	X		CAP-STIRRUPS-VERT.
P812		32	53'-3"			CAP-BOT.&TOP-HORIZ.
P813		32	37'-1"			CAP-BOT.&TOP-HORIZ.
P514		24	50'-0"			CAP-SIDES-HORIZ.
P515		24	37'-1"			CAP-SIDES-HORIZ.
P516		24	6'-9"	X		CAP-ENDS-HORIZ.
P517		114	6'-4"	X		CAP-VERT.
P418		10	21'-0"			CAP-TOP-HORIZ.
P419		10	37'-1"			CAP-TOP-HORIZ.
P520		96	2'-0"			CAP-DOWELS-VERT.



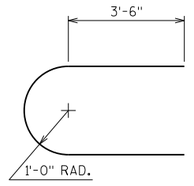
P903



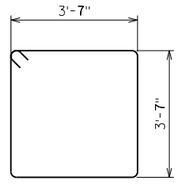
P405



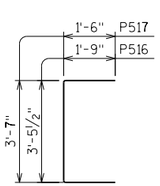
P406



P610



P511



P516, P517

8

8

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DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

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PIER DETAILS 2

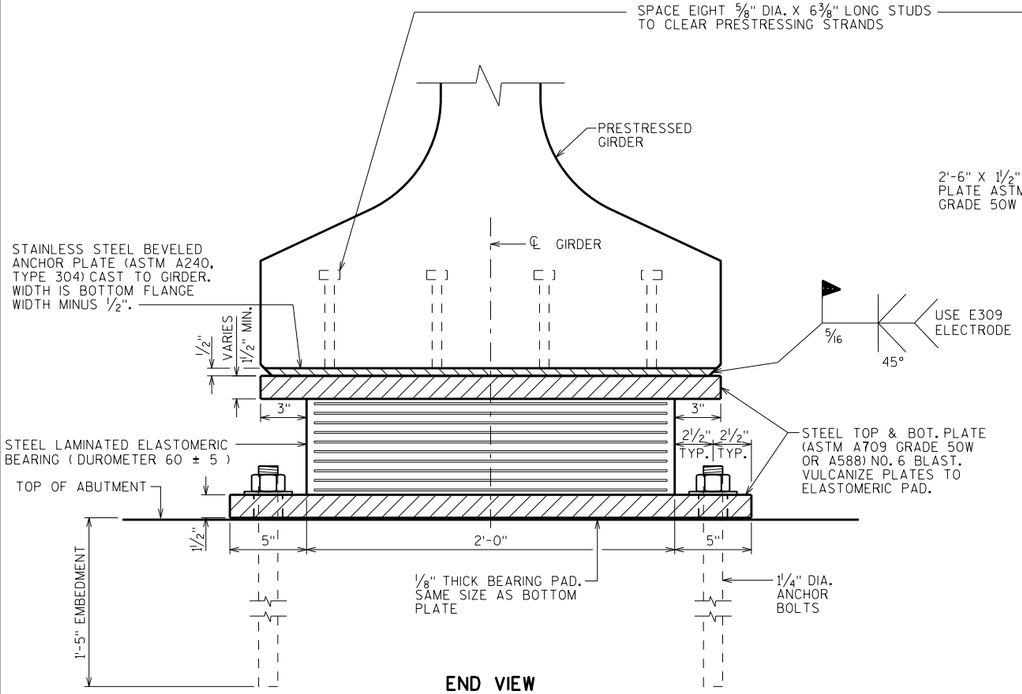
SHEET 17

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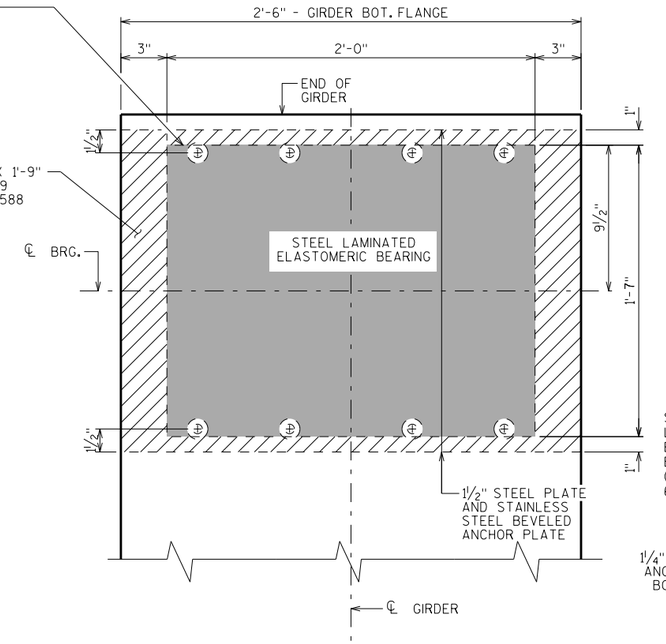
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STATE PROJECT NUMBER

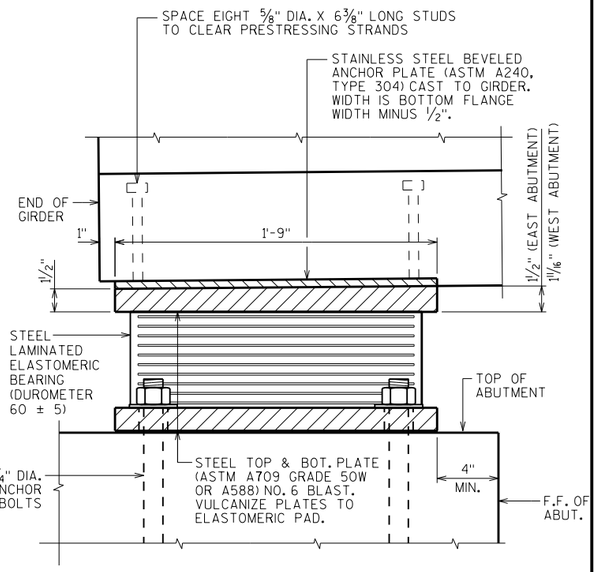
1146-75-71



END VIEW

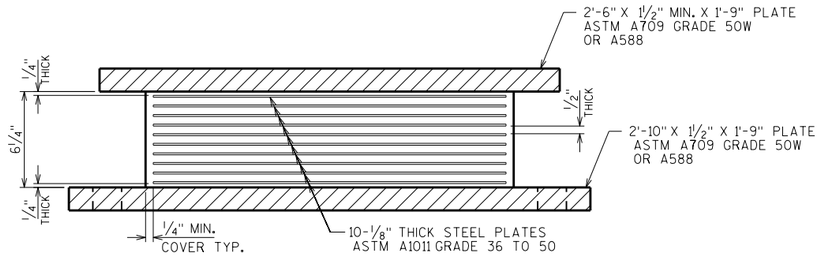


PLAN SHOWING TOP PLATE



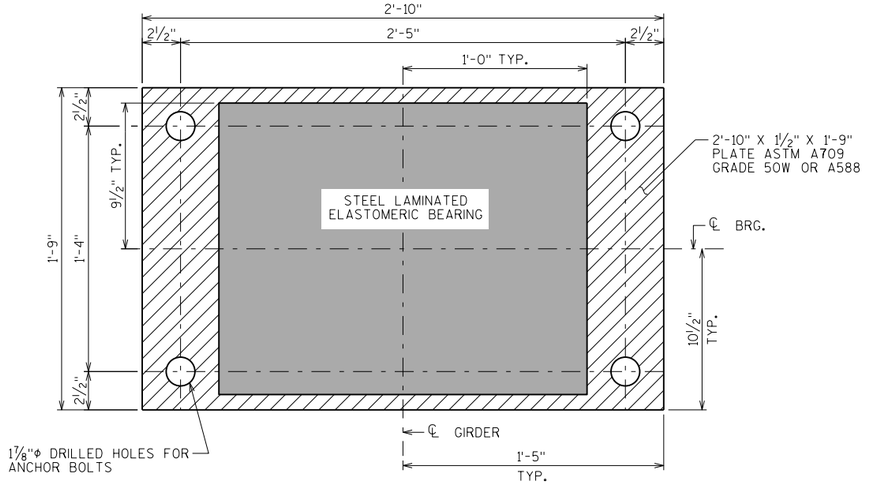
ELEVATION VIEW

(SHOWING BEVELED TOP PLATE AT WEST ABUTMENT)



SECTION THRU ELASTOMERIC BEARING

(SHOWING END VIEW)



PLAN SHOWING BOTTOM PLATE

NOTES

ALL BEARINGS ARE SYMMETRICAL ABOUT ℄ OF GIRDER AND ℄ OF BEARING

BEARINGS SHALL NOT BE PLACED AT A TEMPERATURE GREATER THAN 85° F.

ALL MATERIAL USED FOR BEARINGS SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING PADS ELASTOMERIC LAMINATED", EACH.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 36, OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. PROJECT ANCHORS BOLTS 3 3/4" ABOVE THE TOP OF CONCRETE.

CHAMFER ANCHOR BOLTS PRIOR TO THREADING

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ABUTMENT BEARING DETAILS

SHEET 18

279

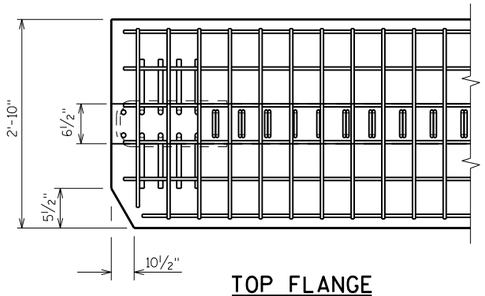
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8

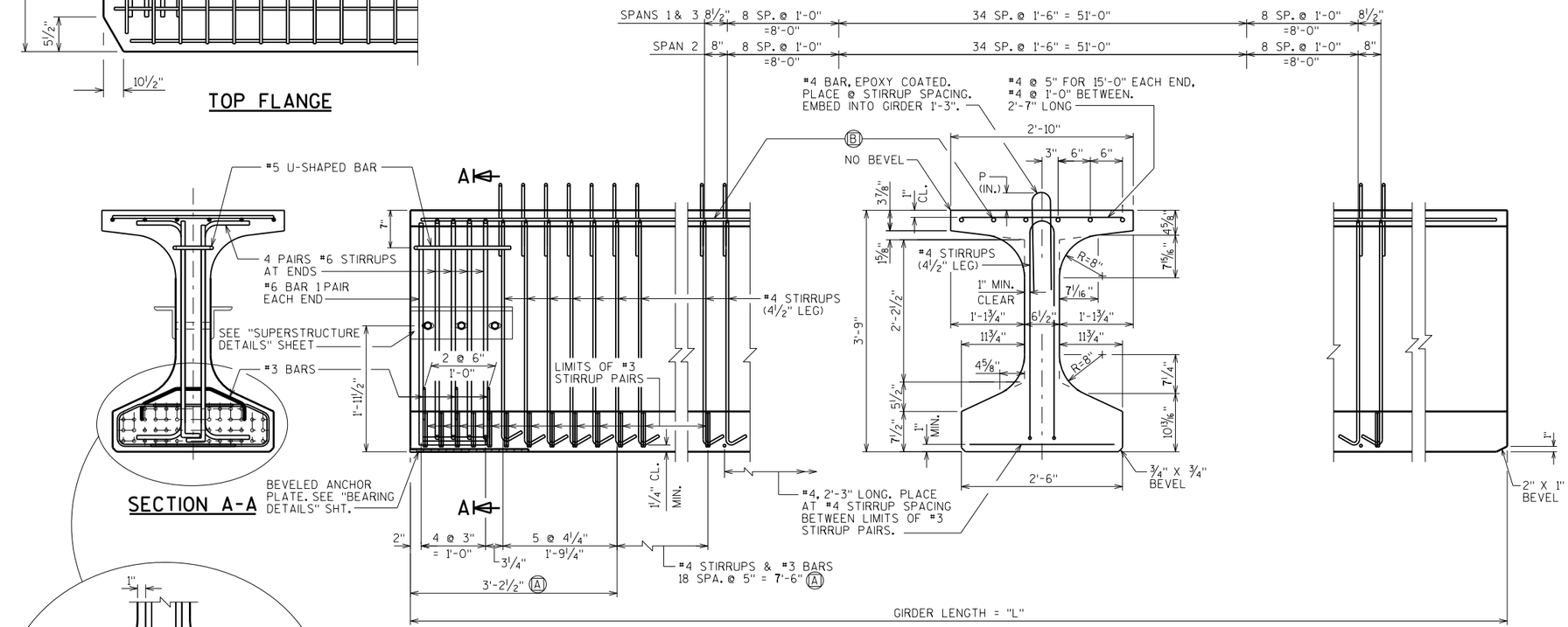
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STATE PROJECT NUMBER

1146-75-71



TOP FLANGE



SECTION A-A

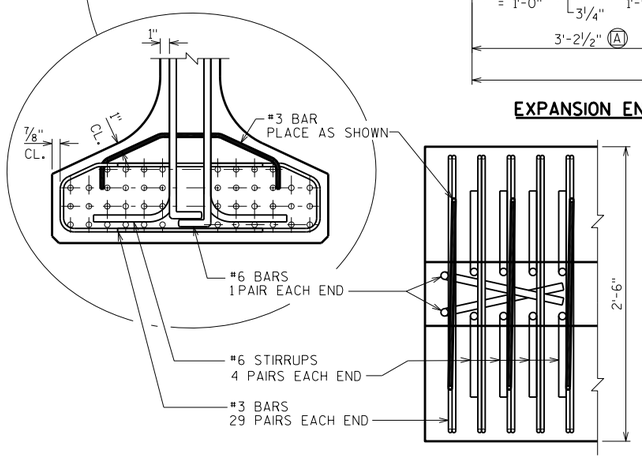
EXPANSION END

FIXED END

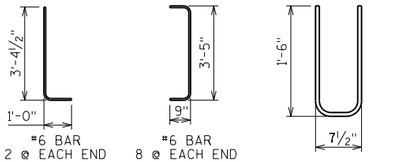
SIDE VIEW & TYPICAL SECTION IN SPAN

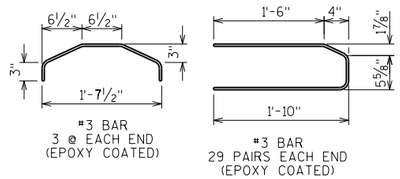
(A) DETAIL TYP. AT EACH END

(B) 6 #4 BARS, FULL LENGTH, MIN. LAP = 1'-8"



BOTTOM FLANGE





NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER OR EPOXY TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS. SEE SECT. 503.3.3 OF STANDARD SPECIFICATIONS FOR GUIDANCE.

STANDS SHALL BE FLUSH WITH END OF GIRDERS. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, GRADE 2, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A1064 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE (0.6" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.

⚹ MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.) 1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	CONC. STRGTH. f'c (p.s.i.)	"P" 1ST 1/3 OF GIRDER	"P" MID 1/3 OF GIRDER	"P" END 1/3 OF GIRDER	DIA. OF STRAND (IN.)	DRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (P.S.I.) ⚹	("A"	"B" MIN.	"B" MAX.	"C")	UNDRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (P.S.I.) ⚹
1	1, 5	89'-10"	0.38	0.73	1.00	1.16	1.22	1.16	0.98	0.71	0.37	8,000	7½"	7½"	7½"	0.6	26	6,400	41	13.25	16.25	4		
1	2-4	89'-10"	0.45	0.84	1.16	1.36	1.42	1.35	1.15	0.84	0.44	8,000	7½"	7½"	7½"	0.6	26	6,400	41	13.25	16.25	4		
2	1, 5	89'-9"	0.38	0.72	0.99	1.16	1.22	1.16	0.99	0.72	0.38	8,000	7½"	7½"	7½"	0.6	24	6,400	41	13.25	16.25	4		
2	2-4	89'-9"	0.45	0.85	1.17	1.37	1.44	1.37	1.17	0.85	0.45	8,000	7½"	7½"	7½"	0.6	24	6,400	41	13.25	16.25	4		
3	1, 5	89'-10"	0.37	0.71	0.98	1.16	1.22	1.16	1.00	0.73	0.39	8,000	7½"	7½"	7½"	0.6	26	6,400	41	13.25	16.25	4		
3	2-4	89'-10"	0.44	0.84	1.15	1.35	1.42	1.36	1.16	0.85	0.45	8,000	7½"	7½"	7½"	0.6	26	6,400	41	13.25	16.25	4		

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STRUCTURE B-44-290

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45W" PRESTRESSED GIRDER DETAILS 1

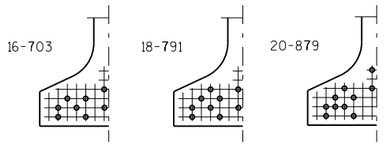
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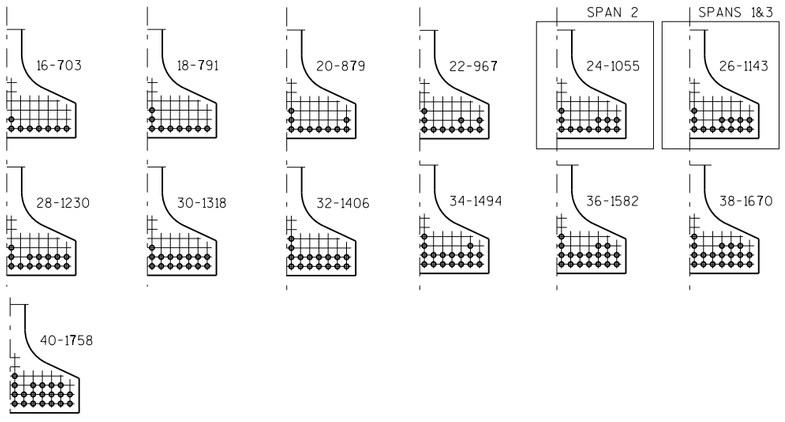
STATE PROJECT NUMBER

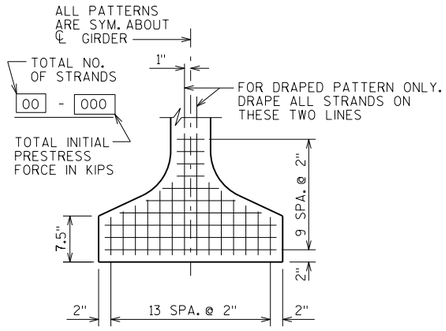
1146-75-71



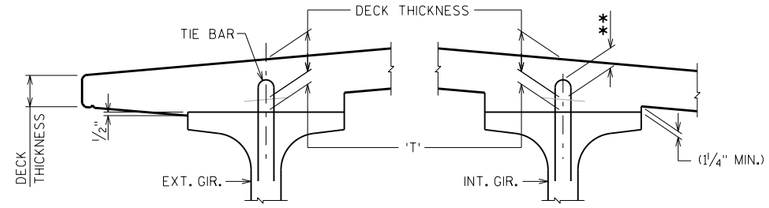
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6"Φ STRANDS





TYP. STRAND PATTERN



DECK HAUNCH DETAIL

IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

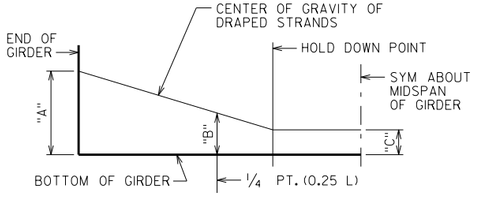
TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- DECK THICKNESS
= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 3" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".

ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6"Φ STRANDS



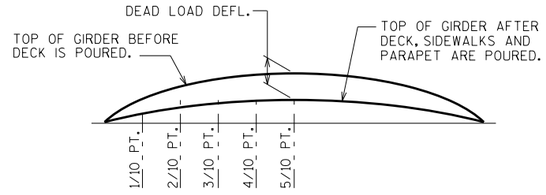
DRAPED STRAND PROFILE

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

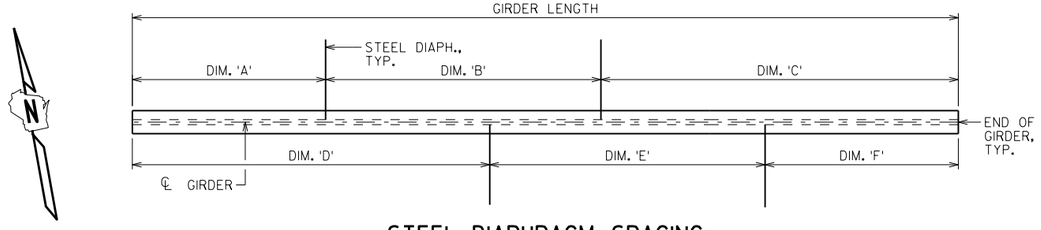
SPAN	CAMBER (IN.) *
1&3	2.32
2	2.04

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.



DEAD LOAD DEFLECTION DIAGRAM



STEEL DIAPHRAGM SPACING

STEEL DIAPHRAGMS, MEASUREMENTS ALONG ℄ OF GIRDER, FROM ENDS OF GIRDER.

	SPAN 1					
	DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'	DIM. 'E'	DIM. 'F'
GIR. 1	N/A	N/A	N/A	38'-10½"	29'-11"	21'-0½"
GIR. 2	21'-0½"	29'-11"	38'-10½"	38'-10½"	29'-11"	21'-0½"
GIR. 3	21'-0½"	29'-11"	38'-10½"	38'-10½"	29'-11"	21'-0½"
GIR. 4	21'-0½"	29'-11"	38'-10½"	38'-10½"	29'-11"	21'-0½"
GIR. 5	21'-0½"	29'-11"	38'-10½"	N/A	N/A	N/A

	SPAN 2					
	DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'	DIM. 'E'	DIM. 'F'
GIR. 1	N/A	N/A	N/A	38'-10"	29'-11"	21'-0"
GIR. 2	21'-0"	29'-11"	38'-10"	38'-10"	29'-11"	21'-0"
GIR. 3	21'-0"	29'-11"	38'-10"	38'-10"	29'-11"	21'-0"
GIR. 4	21'-0"	29'-11"	38'-10"	38'-10"	29'-11"	21'-0"
GIR. 5	21'-0"	29'-11"	38'-10"	N/A	N/A	N/A

	SPAN 3					
	DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'	DIM. 'E'	DIM. 'F'
GIR. 1	N/A	N/A	N/A	21'-0½"	29'-11"	38'-10½"
GIR. 2	38'-10½"	29'-11"	21'-0½"	21'-0½"	29'-11"	38'-10½"
GIR. 3	38'-10½"	29'-11"	21'-0½"	21'-0½"	29'-11"	38'-10½"
GIR. 4	38'-10½"	29'-11"	21'-0½"	21'-0½"	29'-11"	38'-10½"
GIR. 5	38'-10½"	29'-11"	21'-0½"	N/A	N/A	N/A

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

45W" PRESTRESSED GIRDER DETAILS 2

SHEET 20

281

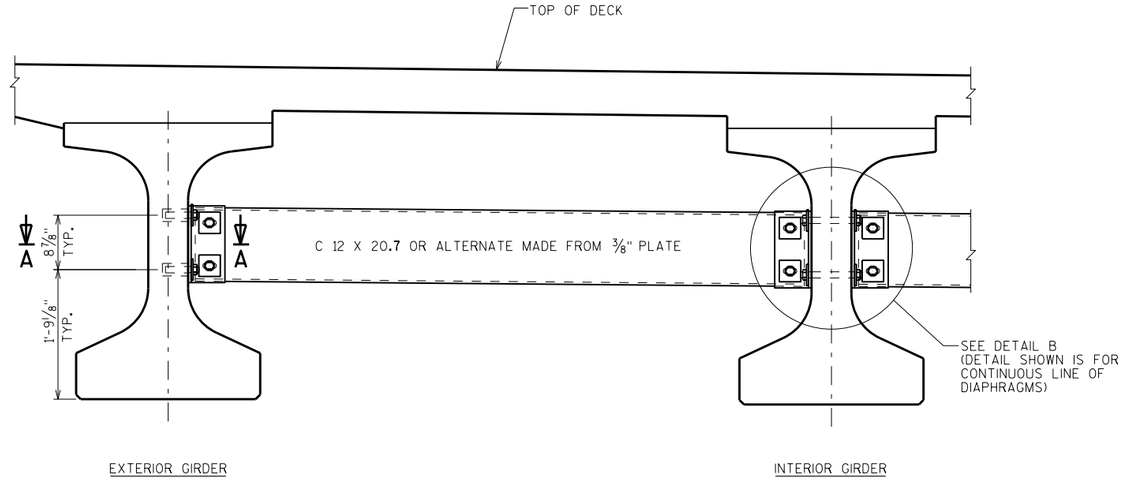
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8

STATE PROJECT NUMBER

1146-75-71



PART TRANSVERSE SECTION AT DIAPHRAGM

NOTES

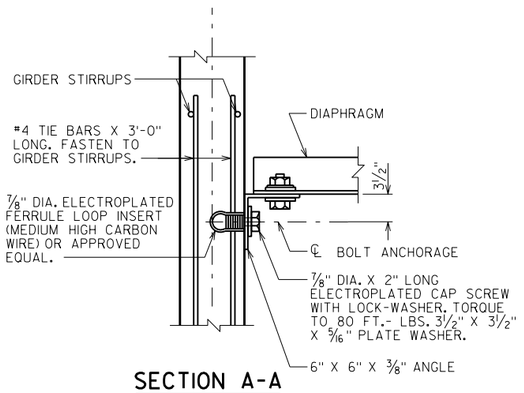
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-44-290", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

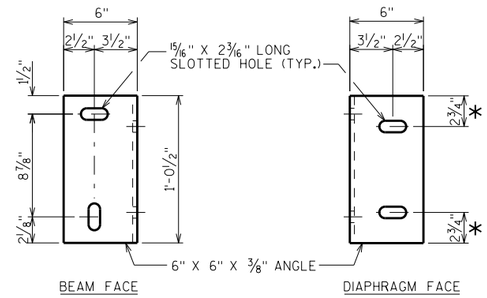
ALL DIAPHRAGM MATERIAL INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS ¼ TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.



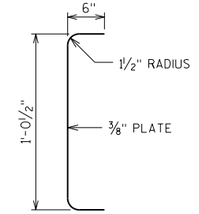
SECTION A-A

(FOR EXTERIOR ATTACHMENT)

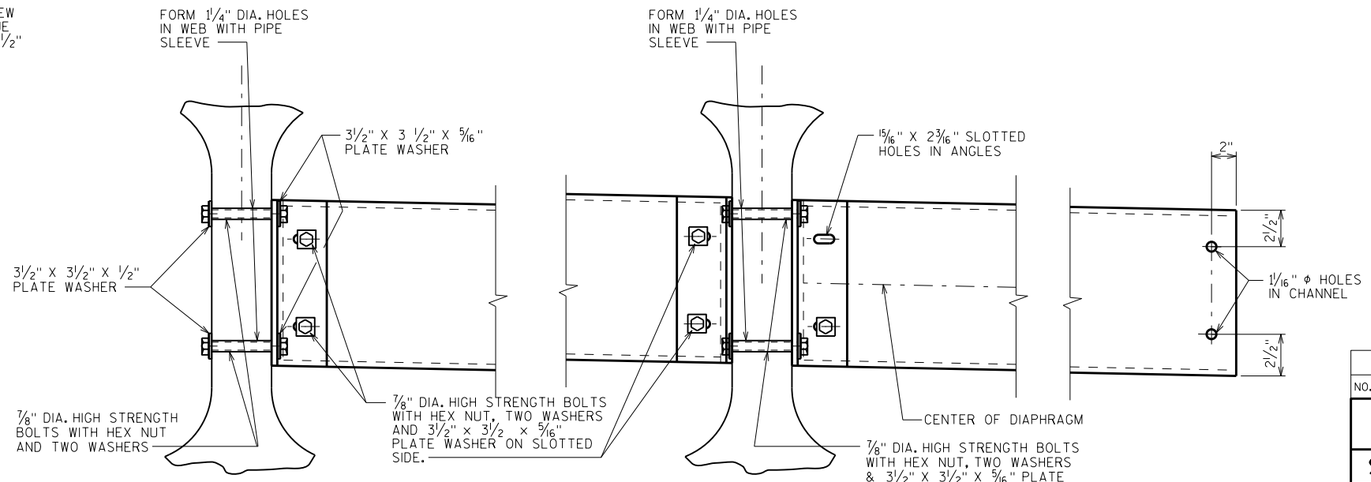


DIAPHRAGM SUPPORT

* 2½" FOR ALTERNATE PLATE DIAPHRAGM



SECTION THRU ALTERNATE DIAPHRAGM



(FOR STAGGERED DIAPHRAGM)

DETAIL B

(FOR CONTINUOUS LINE OF DIAPHRAGMS)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

STEEL DIAPHRAGM

SHEET 21

282

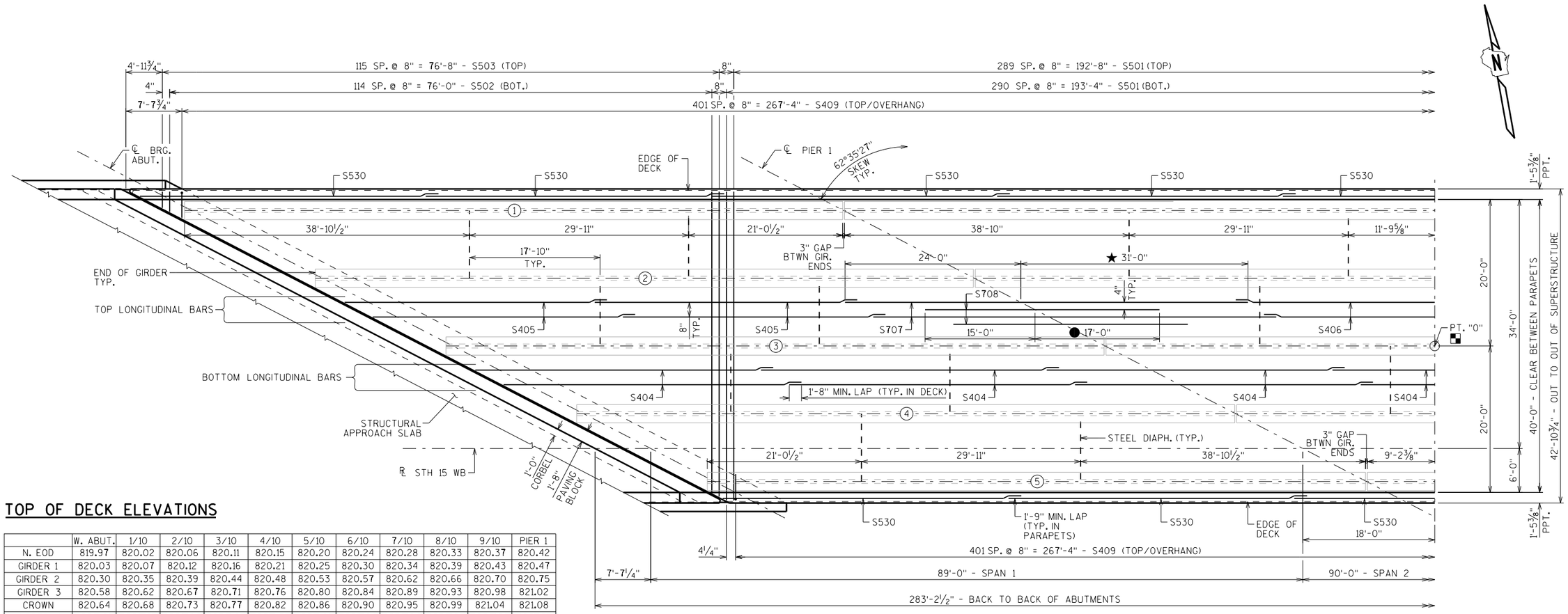
SCALE = 1.00

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8

STATE PROJECT NUMBER

1146-75-71



HALF PLAN

TOP OF DECK ELEVATIONS

	W. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	PIER 1
N. EOD	819.97	820.02	820.06	820.11	820.15	820.20	820.24	820.28	820.33	820.37	820.42
GIRDER 1	820.03	820.07	820.12	820.16	820.21	820.25	820.30	820.34	820.39	820.43	820.47
GIRDER 2	820.30	820.35	820.39	820.44	820.48	820.53	820.57	820.62	820.66	820.70	820.75
GIRDER 3	820.58	820.62	820.67	820.71	820.76	820.80	820.84	820.89	820.93	820.98	821.02
CROWN	820.64	820.68	820.73	820.77	820.82	820.86	820.90	820.95	820.99	821.04	821.08
GIRDER 4	820.56	820.61	820.65	820.70	820.74	820.78	820.83	820.87	820.92	820.96	821.01
REF. LINE	820.51	820.56	820.60	820.65	820.69	820.74	820.78	820.82	820.87	820.91	820.96
GIRDER 5	820.47	820.51	820.56	820.60	820.64	820.69	820.73	820.78	820.82	820.87	820.91
S. EOD	820.46	820.51	820.55	820.60	820.64	820.69	820.73	820.77	820.82	820.86	820.91

	PIER 1	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	PIER 2
N. EOD	820.42	820.46	820.51	820.55	820.60	820.64	820.69	820.73	820.78	820.82	820.87
GIRDER 1	820.47	820.52	820.56	820.61	820.65	820.70	820.74	820.79	820.83	820.88	820.92
GIRDER 2	820.75	820.79	820.84	820.88	820.93	820.97	821.02	821.06	821.11	821.15	821.20
GIRDER 3	821.02	821.07	821.11	821.16	821.20	821.25	821.29	821.34	821.38	821.43	821.47
CROWN	821.08	821.13	821.17	821.22	821.26	821.31	821.35	821.40	821.44	821.49	821.53
GIRDER 4	821.01	821.05	821.10	821.14	821.19	821.23	821.28	821.32	821.37	821.41	821.46
REF. LINE	820.96	821.00	821.05	821.09	821.14	821.18	821.23	821.27	821.32	821.36	821.41
GIRDER 5	820.91	820.96	821.00	821.05	821.09	821.14	821.18	821.23	821.27	821.32	821.36
S. EOD	820.91	820.95	821.00	821.04	821.09	821.13	821.18	821.22	821.27	821.31	821.36

	PIER 2	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	E. ABUT.
N. EOD	820.87	820.91	820.96	821.00	821.05	821.09	821.14	821.18	821.22	821.27	821.31
GIRDER 1	820.92	820.97	821.01	821.06	821.10	821.15	821.19	821.24	821.28	821.33	821.37
GIRDER 2	821.20	821.24	821.29	821.33	821.38	821.42	821.47	821.51	821.55	821.60	821.64
GIRDER 3	821.47	821.52	821.56	821.61	821.65	821.70	821.74	821.78	821.83	821.87	821.92
CROWN	821.53	821.58	821.62	821.67	821.71	821.75	821.80	821.84	821.89	821.93	821.98
GIRDER 4	821.46	821.50	821.55	821.59	821.64	821.68	821.72	821.77	821.81	821.86	821.90
REF. LINE	821.41	821.45	821.50	821.54	821.59	821.63	821.67	821.72	821.76	821.81	821.85
GIRDER 5	821.36	821.41	821.45	821.49	821.54	821.58	821.63	821.67	821.72	821.76	821.81
S. EOD	821.36	821.40	821.45	821.49	821.54	821.58	821.62	821.67	821.71	821.76	821.80

★ S707 TO EXTEND 31'-0" PAST ℄ PIER INTO SPAN 2. TYPICAL AT PIER 1 & 2.

● S708 TO EXTEND 17'-0" PAST ℄ PIER INTO SPAN 2. TYPICAL AT PIER 1 & 2.

ROTATE SUPERSTRUCTURE 180° ABOUT PT. "O" FOR SECOND HALF OF SUPERSTRUCTURE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

SUPERSTRUCTURE PLAN

SHEET 22

283

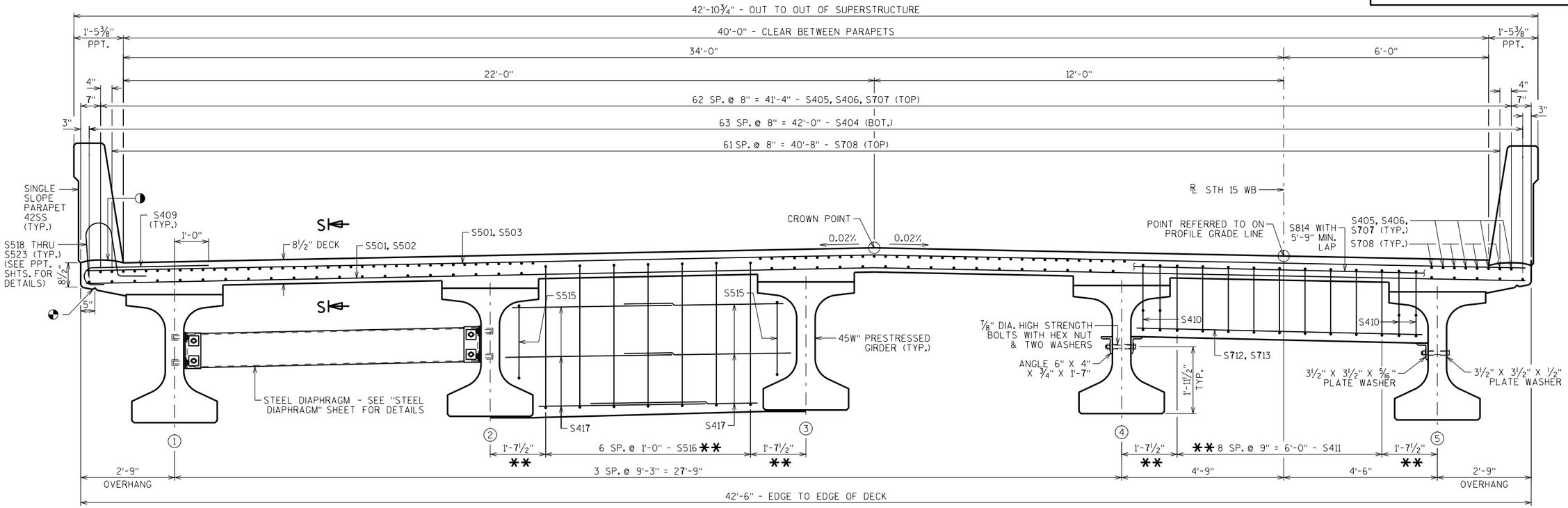
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8

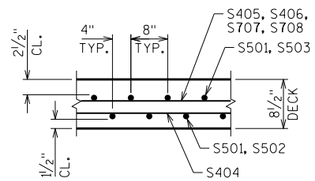
STATE PROJECT NUMBER

1146-75-71

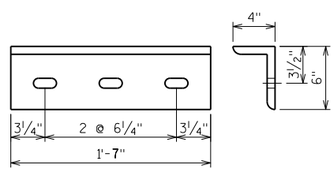


CROSS SECTION THRU BRIDGE

** DIMENSION IS TAKEN PERPENDICULAR TO ℄ GIRDERS



SECTION S-S



ANGLE

6" X 4" X ¾" X 1'-7"

PROVIDE 3½" X 3½" X 5/16" PLATE WASHERS AT ALL LOCATIONS EXCEPT AT EXTERIOR FACES OF EXTERIOR GIRDERS WHERE 3½" X 3½" X ½" PLATE WASHERS SHALL BE PROVIDED.

NOTES

ALL DIAPHRAGM SUPPORT HARDWARE SHALL BE INCIDENTAL TO "CONCRETE MASONRY BRIDGES".

DIAPHRAGM SUPPORT ANGLES SHALL BE ASTM A709 GRADE 36.

ALL DIAPHRAGM SUPPORT HARDWARE INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

STEEL DIAPHRAGM SUPPORT ANGLE TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS ¼ TURN. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.

◐ HORIZ. CONST. JOINT: STRIKE OFF AND LEAVE ROUGH AS SHOWN

◔ ¾" V-GROOVE. TERMINATE 2'-0" FROM F.F. OF ABUTS. V-GROOVES ARE REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

SUPERSTRUCTURE CROSS SECTION

SHEET 23

284

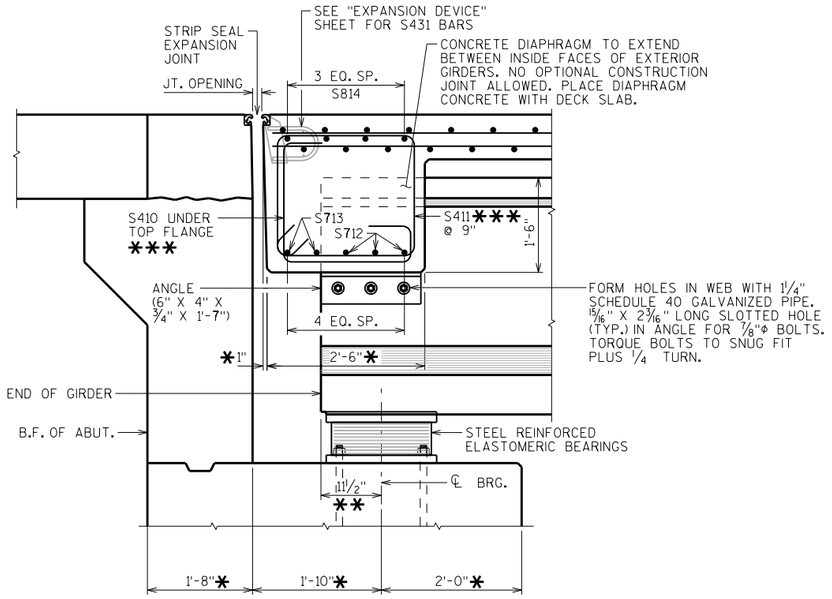
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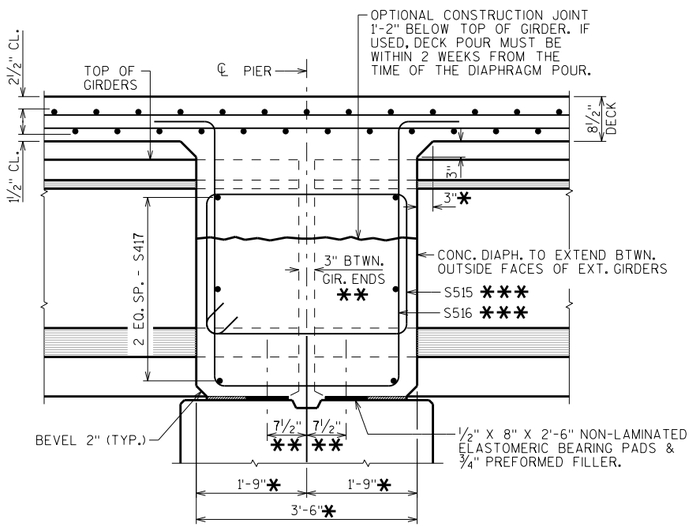
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STATE PROJECT NUMBER

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CROSS SECTION AT ABUT. DIAPHRAGMS
(EXPANSION)



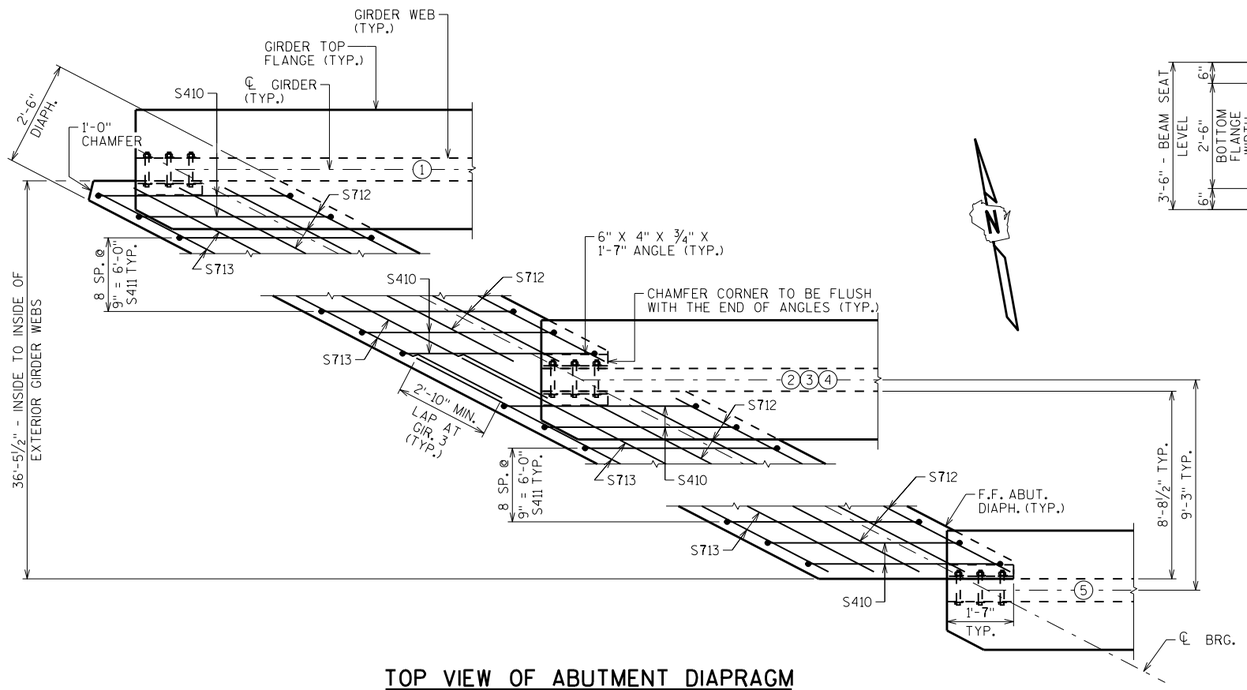
CROSS SECTION AT PIER DIAPHRAGMS
(FIXED)

PART LONGITUDINAL SECTION

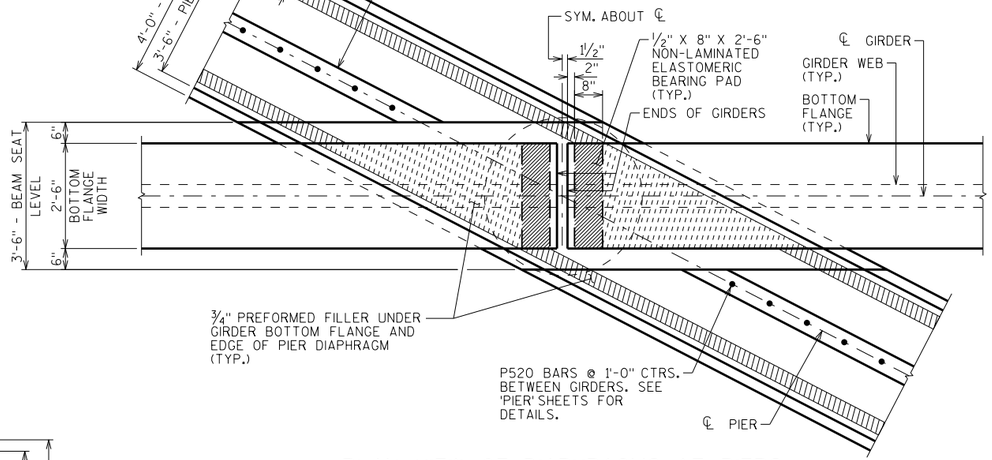
*DIMENSION IS TAKEN PERPENDICULAR TO ℄ SUBSTRUCTURE UNITS.

**DIMENSION IS TAKEN PARALLEL TO ℄ GIRDERS

***BARS PLACED PARALLEL TO ℄ GIRDERS & SPACED PERPENDICULAR TO ℄ GIRDERS



TOP VIEW OF ABUTMENT DIAPRAGM
S814 BARS NOT SHOWN FOR CLARITY



PLAN VIEW OF DIAPHRAGMS AT PIERS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

SUPERSTRUCTURE DETAILS

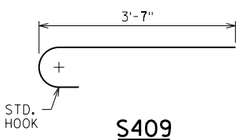
SHEET 24

285

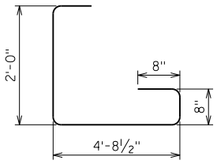
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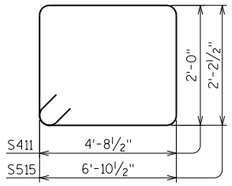
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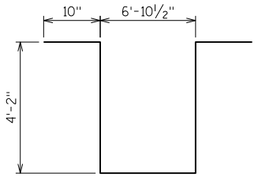
S409



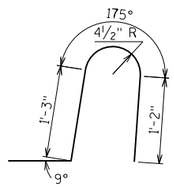
S410



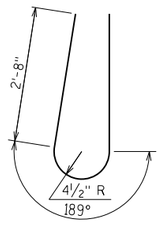
S411, S515



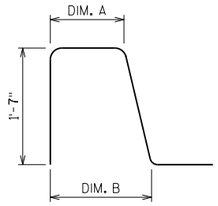
S516



S518

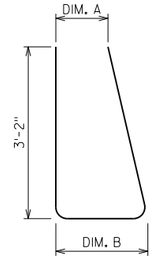


S524



S519, S520, S521
S522, S523

BAR MARK	DIM "A"	DIM. "B"
S519	8½"	11½"
S520	10"	1'-1½"
S521	1'-0"	1'-4½"
S522	1'-2"	1'-7½"
S523	1'-5"	1'-11½"



S525, S526, S527
S528, S529

BAR MARK	DIM "A"	DIM. "B"
S525	6"	10½"
S526	7"	1'-0"
S527	8½"	1'-3"
S528	9½"	1'-5½"
S529	11½"	1'-9"

STATE PROJECT NUMBER

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BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S501	X	581	42'-2"			DECK-TOP&BOT.-HORIZ.-TRANS.
S502	X	230	22'-2"		⚠	DECK-BOT.-HORIZ.-TRANS.
S503	X	232	22'-2"		⚠	DECK-TOP-HORIZ.-TRANS.
S404	X	448	40'-8"			DECK-BOT.-HORIZ.-LONGIT.
S405	X	252	35'-10"			DECK-TOP-HORIZ.-LONGIT.-SPANS 1&3
S406	X	63	31'-4"			DECK-TOP-HORIZ.-LONGIT.-SPAN 2
S707	X	126	55'-0"			DECK-TOP-HORIZ.-LONGIT.-OVER PIERS
S708	X	124	32'-0"			DECK-TOP-HORIZ.-LONGIT.-OVER PIERS
S409	X	804	4'-1"	X		DECK-TOP-HORIZ.-TRANS.-OVERHANG
S410	X	32	8'-5"	X		ABUT. DIAPH.-VERT.-UNDER GIR. FLANGES
S411	X	72	13'-11	X		ABUT. DIAPH.-VERT.-BETWEEN GIRS.
S712	X	24	18'-2"			ABUT. DIAPH.-BOT.-HORIZ.
S713	X	8	40'-8"			ABUT. DIAPH.-BOT.-HORIZ.
S814	X	24	34'-6"			ABUT. DIAPH.-TOP-HORIZ.
S515	X	16	18'-10	X		PIER DIAPH.-VERT.-UNDER GIR. FLANGES
S516	X	56	16'-5"	X		PIER DIAPH.-VERT.-BETWEEN GIRS.
S417	X	96	10'-0"			PIER DIAPH.-HORIZ.-BETWEEN GIRS.
S518	X	804	4'-5"	X		PARAPETS/DECK-VERT.
S519	X	4	4'-6"	X		PARAPETS/DECK-VERT.-ENDS
S520	X	4	4'-8"	X		PARAPETS/DECK-VERT.-ENDS
S521	X	4	4'-11"	X		PARAPETS/DECK-VERT.-ENDS
S522	X	4	5'-1"	X		PARAPETS/DECK-VERT.-ENDS
S523	X	4	5'-4"	X		PARAPETS/DECK-VERT.-ENDS
S524	X	804	6'-8"	X		PARAPETS-VERT.
S525	X	4	7'-0"	X		PARAPETS-VERT.-ENDS
S526	X	4	7'-2"	X		PARAPETS-VERT.-ENDS
S527	X	4	7'-5"	X		PARAPETS-VERT.-ENDS
S528	X	4	7'-8"	X		PARAPETS-VERT.-ENDS
S529	X	4	7'-11"	X		PARAPETS-VERT.-ENDS
S530	X	112	41'-0"			PARAPETS-HORIZ.
S431	X	16	20'-0"			EXPANSION DEVICE-HORIZ.-BETWEEN GIRS.

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
S502	2 SERIES OF 115	2'-5" TO 41'-10"
S503	2 SERIES OF 116	2'-3" TO 42'-0"

BUNDLE AND TAG EACH SERIES SEPARATELY.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

SUPERSTRUCTURE BAR DETAILS

SHEET 25

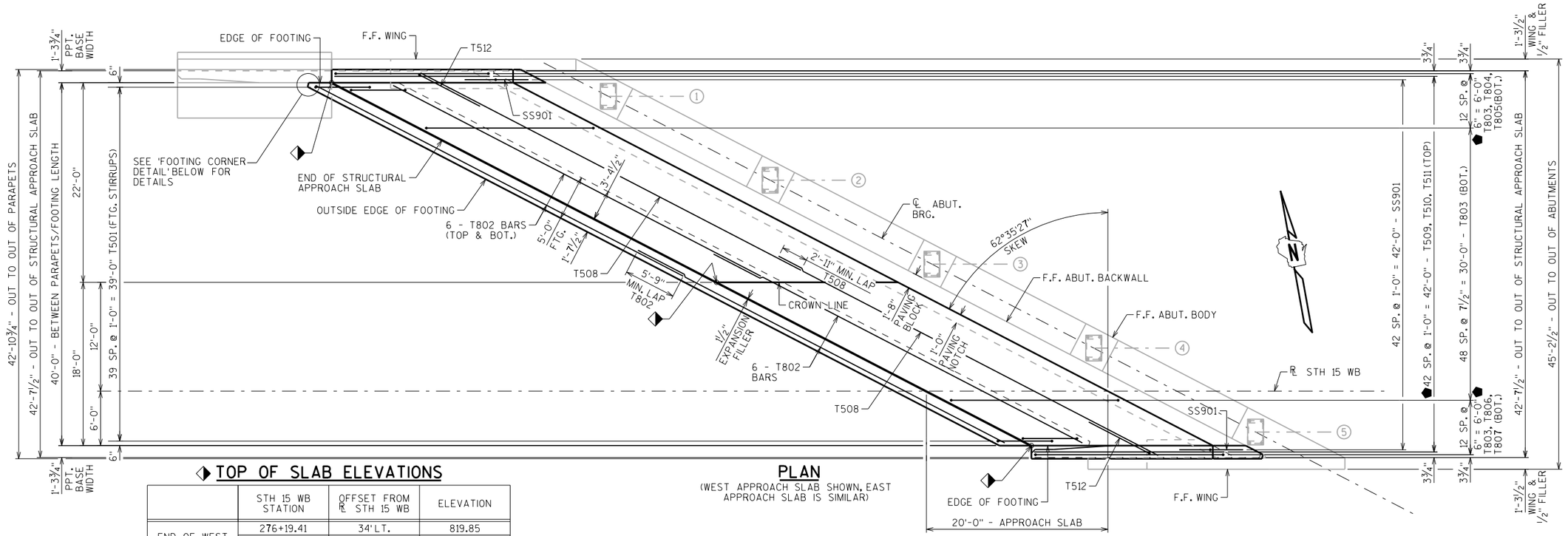
286

SCALE = 7.00

STATE PROJECT NUMBER

1146-75-71

⬟ SEE "CROSS SECTION THRU APPROACH SLAB" DETAIL ON THIS SHEET FOR T803, T804, T805, T806, T807, T509, T510, & T511 BAR LOCATIONS.

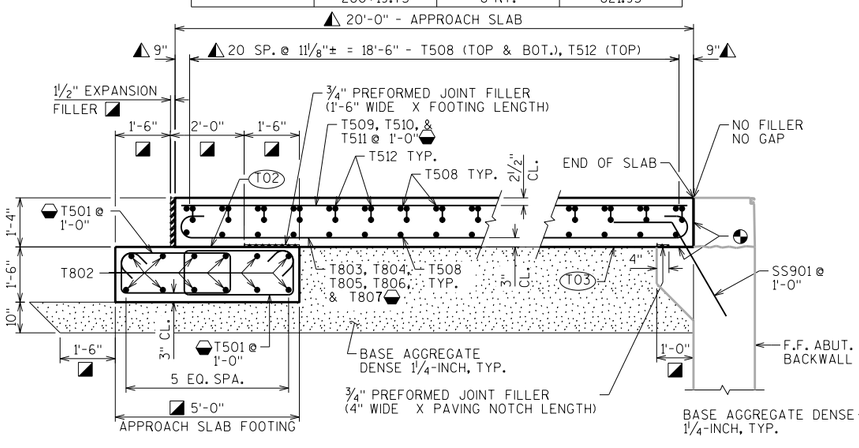


◆ TOP OF SLAB ELEVATIONS

	℄ STH 15 WB STATION	OFFSET FROM ℄ STH 15 WB	ELEVATION
END OF WEST APPROACH SLAB	276+19.41	34' LT.	819.85
	276+61.84	12' LT.	820.50
	276+96.55	6' RT.	820.31
END OF EAST APPROACH SLAB	279+42.62	34' LT.	821.46
	279+85.04	12' LT.	822.12
	280+19.75	6' RT.	821.93

PLAN

(WEST APPROACH SLAB SHOWN, EAST APPROACH SLAB IS SIMILAR)



SECTION THRU APPROACH SLAB

(T02) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE LENGTH OF THE FOOTING.

(T03) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE LENGTH OF THE SUBGRADE.

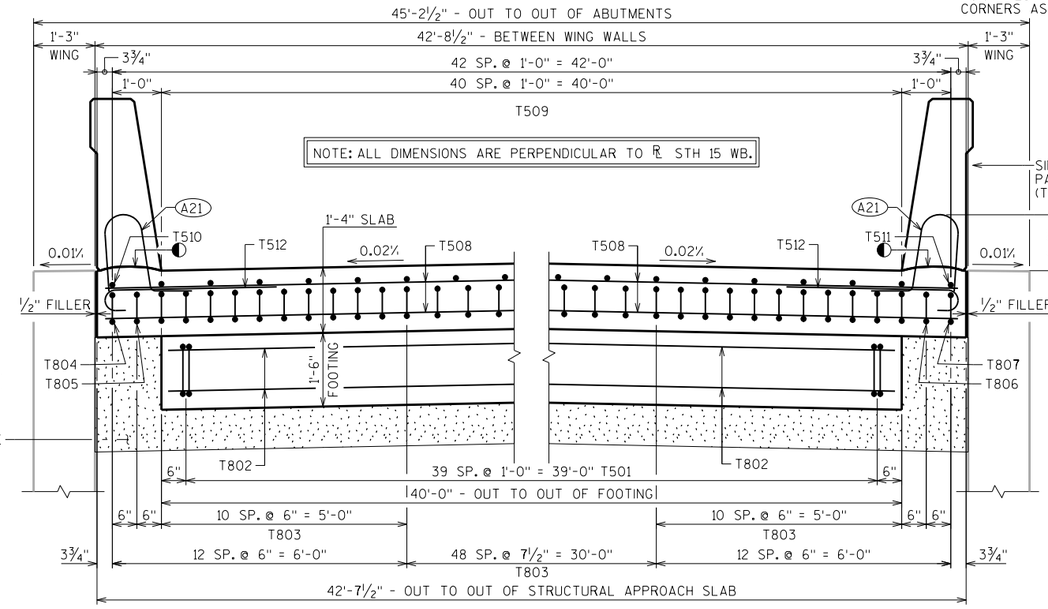
(A21) FOR PPT. BARS & DIMENSIONS SEE PARAPET SHEET.

◓ APPLY PROTECTIVE SURFACE TREATMENT TO PAVING NOTCH SURFACES PRIOR TO POURING STRUCTURAL APPROACH SLAB.

◪ MEASURED NORMAL TO ABUTMENT

◭ MEASURED PARALLEL TO ℄ STH 15 WB BARS PLACED ALONG SKEW

◒ BARS PLACED PARALLEL TO ℄ STH 15 WB & SPACED PERPENDICULAR TO ℄ STH 15 WB

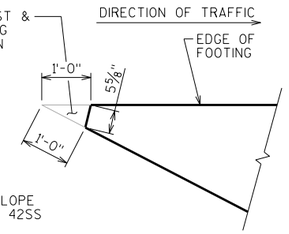


CROSS SECTION THRU APPROACH SLAB

(LOOKING EAST - WEST APPROACH SLAB SHOWN, EAST APPROACH SLAB IS SIMILAR)

◐ HORIZ. CONST. JOINT: STRIKE OFF AND LEAVE ROUGH AS SHOWN

CHAMFER SOUTHEAST & NORTHWEST FOOTING CORNERS AS SHOWN



FOOTING CORNER DETAIL

(TYPICAL AT SOUTHEAST AND NORTHWEST FOOTING CORNERS)

NOTES

ALL LONGITUDINAL BARS TO BE PLACED PARALLEL TO ℄ STH 15 WB

ALL TRANSVERSE BARS TO BE PLACED ALONG THE SKEW

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

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STRUCTURAL APPROACH SLAB

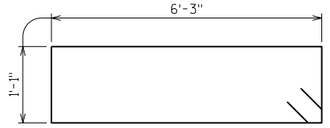
SHEET 26

287

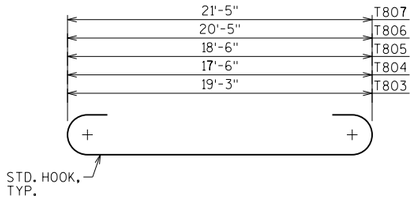
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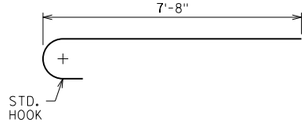
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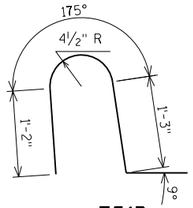
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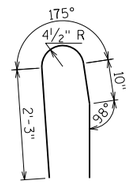
T803, T804, T805, T806, T807



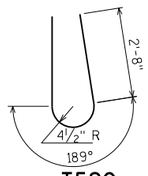
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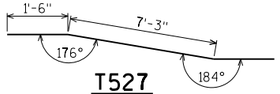
T513



T519



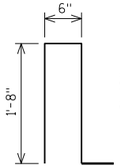
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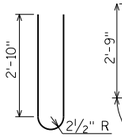
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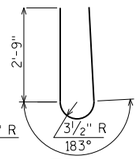
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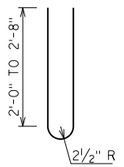
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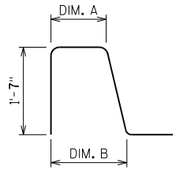
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T531

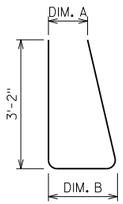


T533



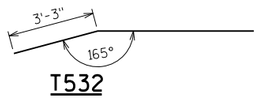
T514, T515, T516
T517, T518

BAR MARK	DIM "A"	DIM. "B"
T514	8½"	11½"
T515	10"	1'-1½"
T516	1'-0"	1'-4½"
T517	1'-2"	1'-7½"
T518	1'-5"	1'-11½"



T521, T522, T523
T524, T525

BAR MARK	DIM "A"	DIM. "B"
T521	6"	10½"
T522	7"	1'-0"
T523	8½"	1'-3"
T524	9½"	1'-5½"
T525	11½"	1'-9"



T532

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BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQUIRED WEST SLAB	NO. REQUIRED EAST SLAB	LENGTH	BENT	BAR SERIES	LOCATION
T501	X	80	80	15'-4"	X		FOOTING-STIRRUP
T802	X	24	24	46'-0"			FOOTING-LONGIT.-TOP&BOT.
T803	X	69	69	21'-1"	X		SLAB-LONGIT.-BOT.
T804	X	1	1	19'-4"	X		SLAB-LONGIT.-BOT.
T805	X	1	1	20'-4"	X		SLAB-LONGIT.-BOT.
T806	X	1	1	22'-3"	X		SLAB-LONGIT.-BOT.
T807	X	1	1	23'-3"	X		SLAB-LONGIT.-BOT.
T508	X	42	42	47'-3"			SLAB-TRANS.-TOP&BOT.
T509	X	41	41	19'-3"			SLAB-LONGIT.-TOP
T510	X	1	1	17'-6"			SLAB-LONGIT.-TOP
T511	X	1	1	21'-4"			SLAB-LONGIT.-TOP
T512	X	42	42	8'-3"	X		SLAB-TRANS.-TOP-EDGES
T513	X	36	36	4'-5"	X		PARAPET/SLAB-VERT.
T514	X	2	2	4'-6"	X		PARAPET/SLAB-VERT.-CORNERS
T515	X	2	2	4'-8"	X		PARAPET/SLAB-VERT.-CORNERS
T516	X	2	2	4'-11"	X		PARAPET/SLAB-VERT.-CORNERS
T517	X	2	2	5'-1"	X		PARAPET/SLAB-VERT.-CORNERS
T518	X	2	2	5'-4"	X		PARAPET/SLAB-VERT.-CORNERS
T519	X	2	2	6'-8"	X		PARAPET/SLAB-VERT.
T520	X	38	38	6'-8"	X		PARAPET-VERT.
T521	X	2	2	7'-0"	X		PARAPET-VERT.-CORNERS
T522	X	2	2	7'-2"	X		PARAPET-VERT.-CORNERS
T523	X	2	2	7'-5"	X		PARAPET-VERT.-CORNERS
T524	X	2	2	7'-8"	X		PARAPET-VERT.-CORNERS
T525	X	2	2	7'-11"	X		PARAPET-VERT.-CORNERS
T526	X	29	29	13'-4"			PARAPET-HORIZ.
T527	X	1	1	20'-0"	X		PARAPET-HORIZ.
T528	X	12	12	2'-9"	X		PARAPET/SLAB-VERT.-TRANSITION
T529	X	17	17	4'-4"	X		PARAPET/SLAB-VERT.-TRANSITION
T530	X	5	5	6'-5"	X		PARAPET-VERT.-TRANSITION
T531	X	6	6	6'-6"	X		PARAPET-VERT.-TRANSITION
T532	X	2	2	13'-5"	X		PARAPET-HORIZ.-TRANSITION
T533	X	6	6	5'-5"	X	⚠	PARAPET/SLAB-VERT.-TRANSITION

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
T533	2 SERIES OF 6	4'-9" TO 6'-1"

BUNDLE AND TAG EACH SERIES SEPARATELY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

STRUCTURAL APPROACH SLAB DETAILS

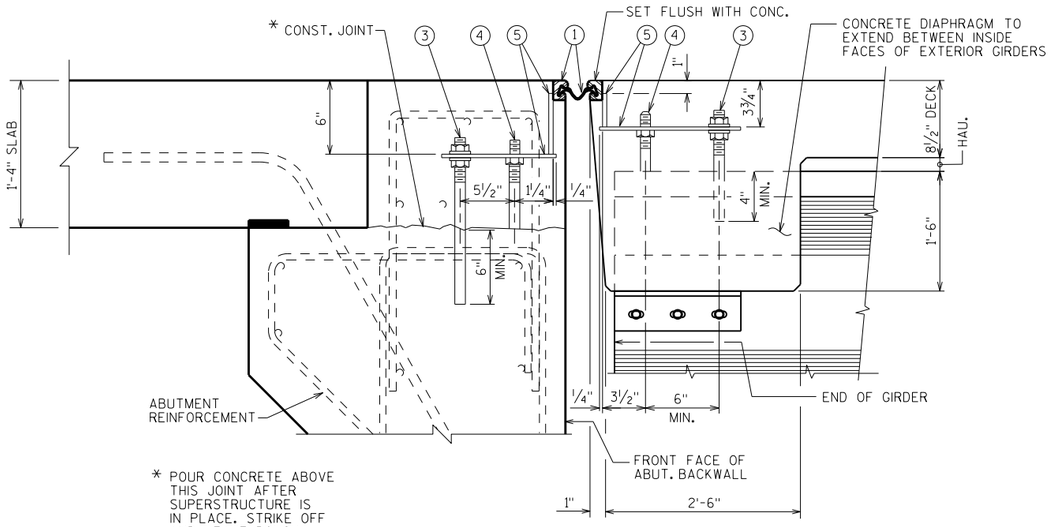
SHEET 27

288

SCALE = 6.00

STATE PROJECT NUMBER

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SECTION THRU JOINT AT ABUTMENT

NORMAL TO ℄ SUBSTRUCTURE

LEGEND

(1) NEOPRENE STRIP SEAL (4-INCH) AND STEEL EXTRUSIONS.

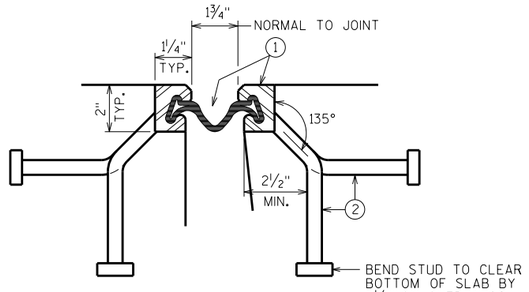
(2) STUDS ⅝"Φ X 6⅜" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.

(2A) ½" THICK ANCHOR PLATE WITH ⅝"Φ ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE. WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.

(3) ¾" Φ THREADED ROD WITH 2 NUTS AND PLATE WASHERS. GROUT THREADED ROD INTO FIELD DRILLED HOLES ON ℄ OF GIRDER. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.

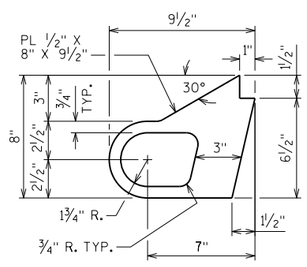
(4) ¾"Φ THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.

(5) FABRICATE SUPPORT FROM 3" X ½" BAR AS SHOWN OR EQUIVALENT. ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1½" Φ HOLE FOR NO. 3 AND 1" Φ HOLE FOR NO. 4.

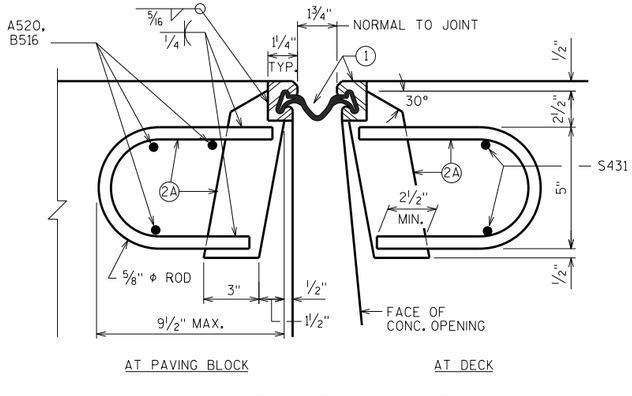


SECTION THRU JOINT

EXTERIOR GIRDER TO EDGE OF DECK AND AT PARAPETS, MEDIANS AND SIDEWALKS

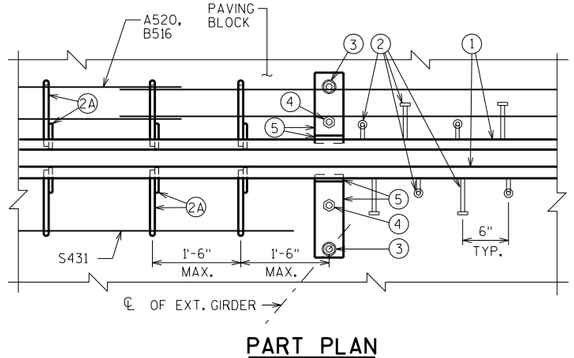


ALTERNATE STRIP SEAL ANCHOR



SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.



PART PLAN

NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENTS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST BARS, PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING THE BARS, PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

ALL MATERIAL IN THE EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID AT THE UNIT PRICE FOR "EXPANSION DEVICE", LF.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

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EXPANSION DEVICE

SHEET 28

289

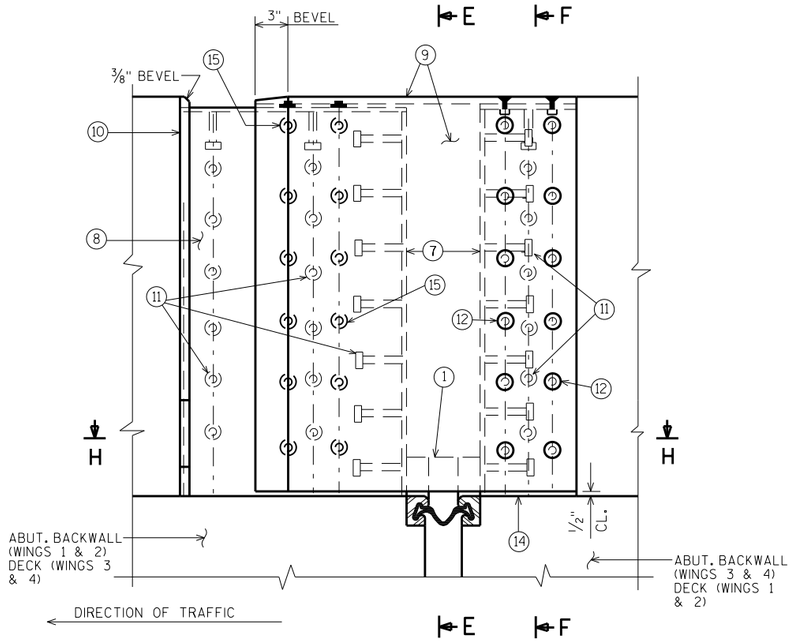
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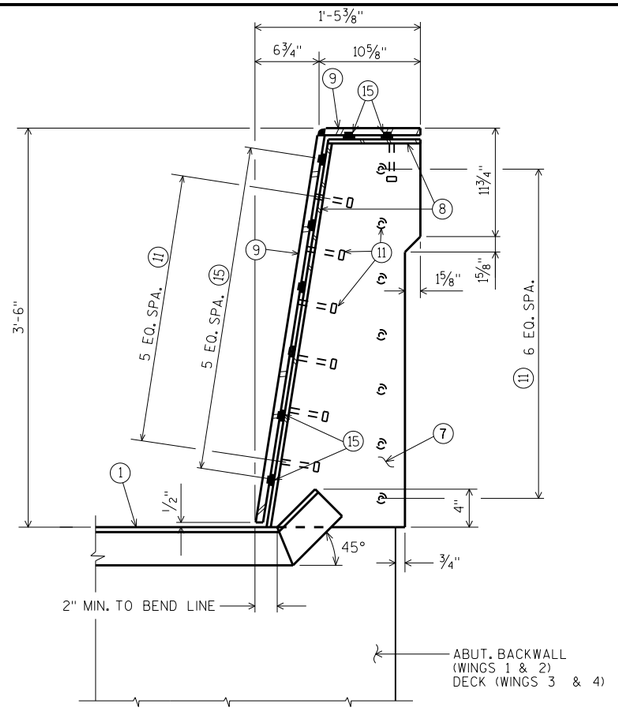
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STATE PROJECT NUMBER

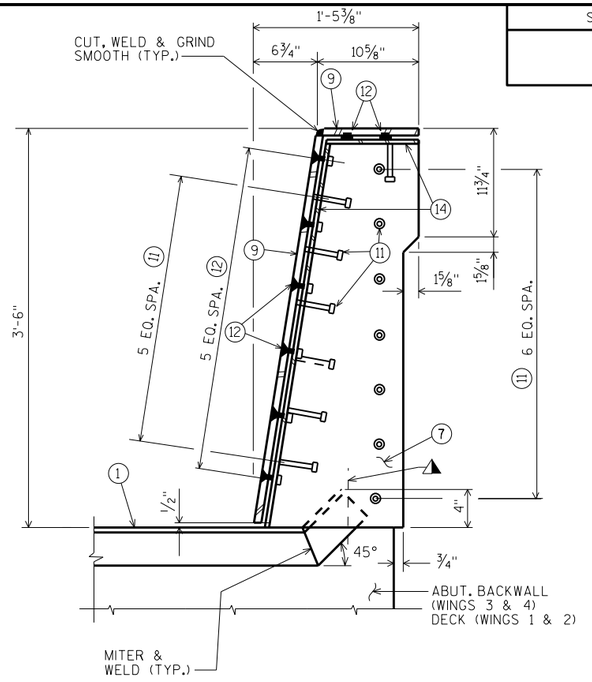
1146-75-71



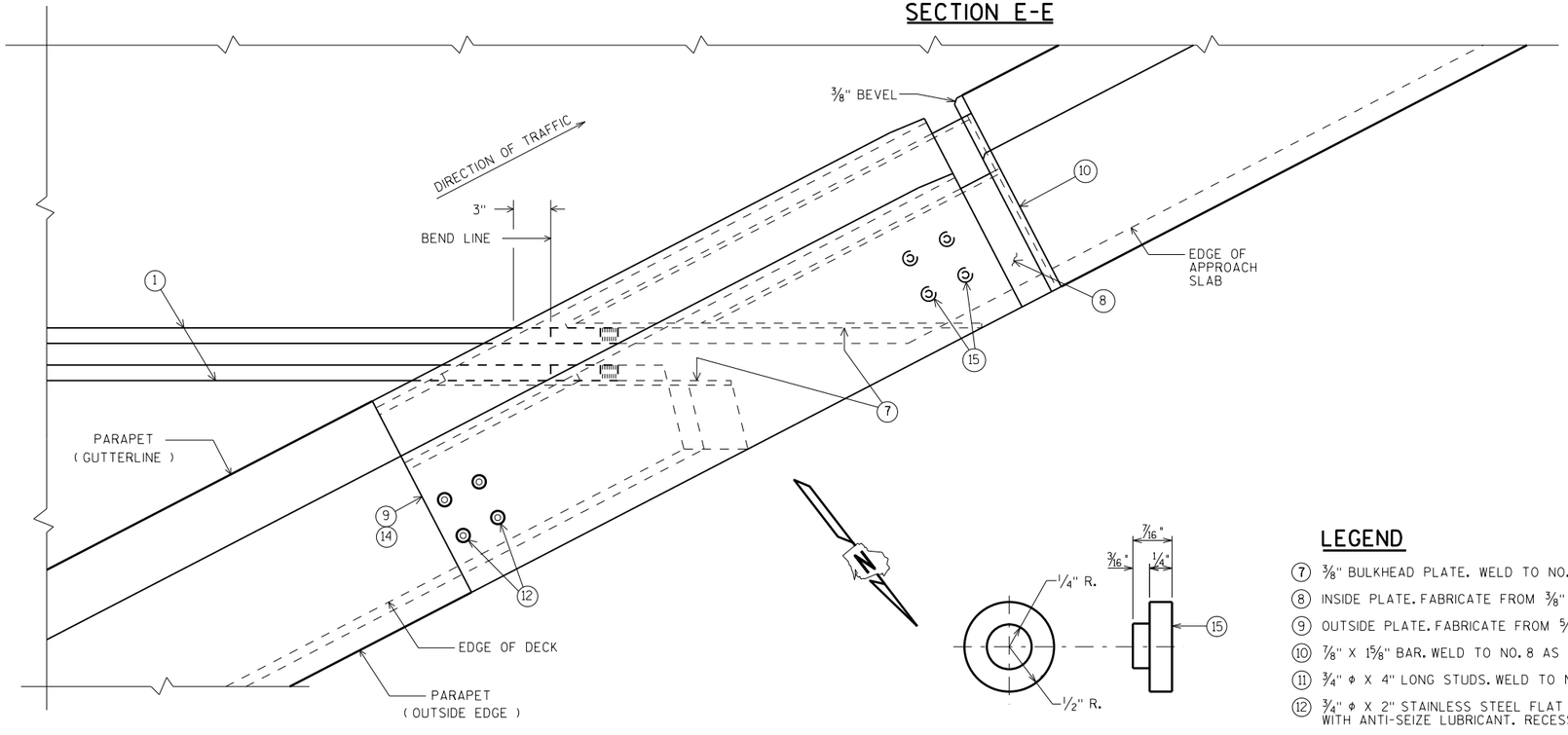
ELEVATION OF SINGLE SLOPE PARAPET



SECTION E-E



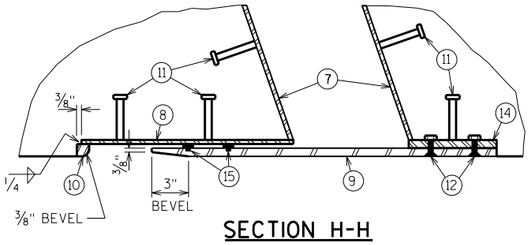
SECTION F-F



PLAN OF SINGLE SLOPE PARAPET

SHOWING COVERPLATE AT WING 2

ADIPRENE BUTTON DETAIL



SECTION H-H

LEGEND

(7) 3/8" BULKHEAD PLATE. WELD TO NO. 1, NO. 8 AND NO. 14.

(8) INSIDE PLATE. FABRICATE FROM 3/8" PLATE.

(9) OUTSIDE PLATE. FABRICATE FROM 5/8" PLATE.

(10) 7/8" X 1 5/8" BAR. WELD TO NO. 8 AS SHOWN.

(11) 3/4" Φ X 4" LONG STUDS. WELD TO NO. 8 , NO. 7 & NO. 14 AS SHOWN.

(12) 3/4" Φ X 2" STAINLESS STEEL FLAT CTSK. SLOTTED HEAD CAP SCREWS WITH ANTI-SEIZE LUBRICANT. RECESS 1/16" BELOW PLATE SURFACE.

(14) INSIDE PLATE. FABRICATE FROM 5/8" PLATE

(15) ADIPRENE BUTTON. SEE DETAIL. SET IN OUTSIDE PLATE.

⚠ MITER EXTRUSION ENDS AS REQ'D TO PROVIDE CLEARANCE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

COVER PLATE DETAILS 1

SHEET 29

290

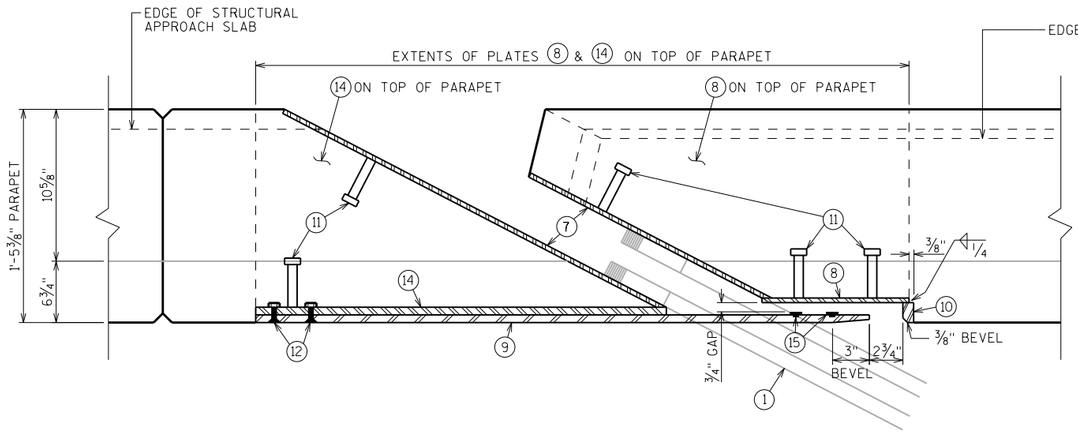
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8

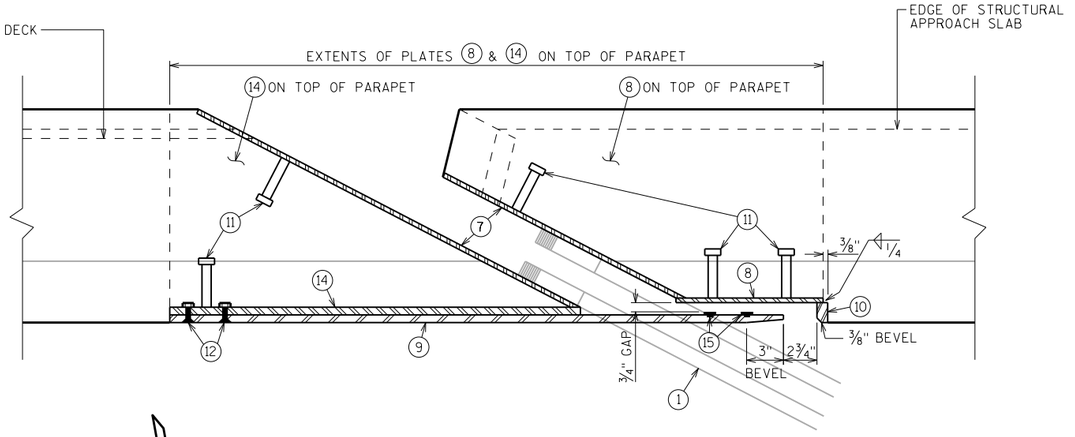
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STATE PROJECT NUMBER

1146-75-71



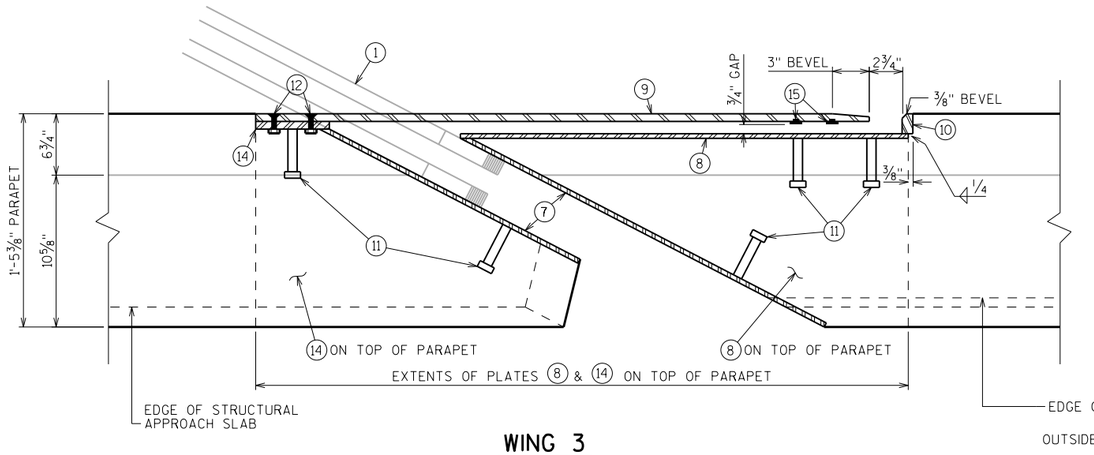
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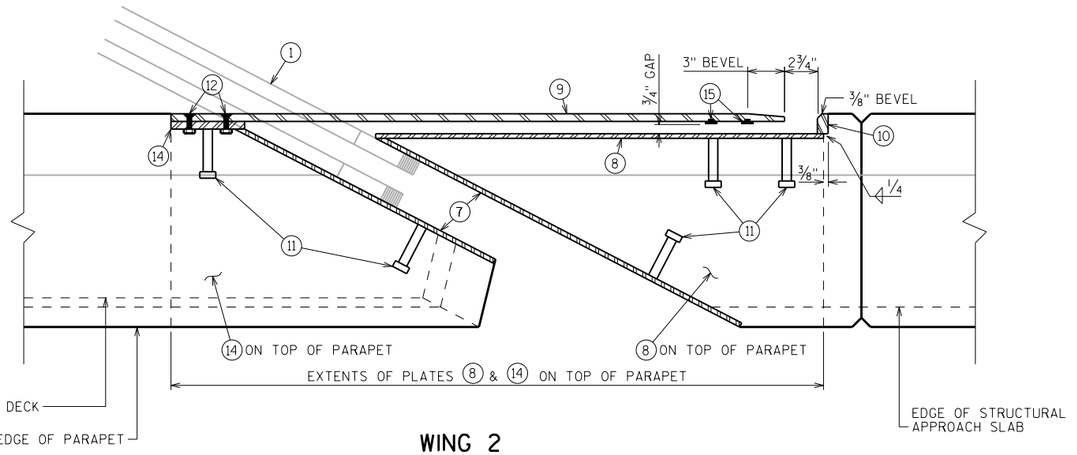
WING 1

DIRECTION OF TRAFFIC

N



WING 3



WING 2

SECTION H-H

(SEE "COVER PLATE DETAILS 1" SHEET FOR LOCATION OF SECTION H-H)

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

COVER PLATE DETAILS 2

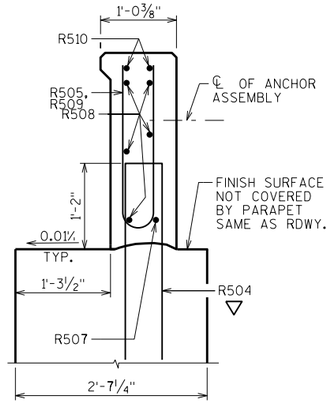
SHEET 30

291

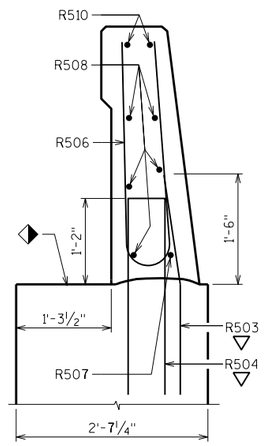
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STATE PROJECT NUMBER

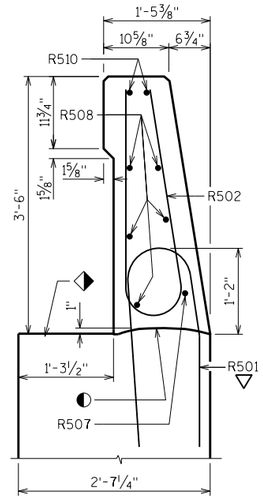
1146-75-71



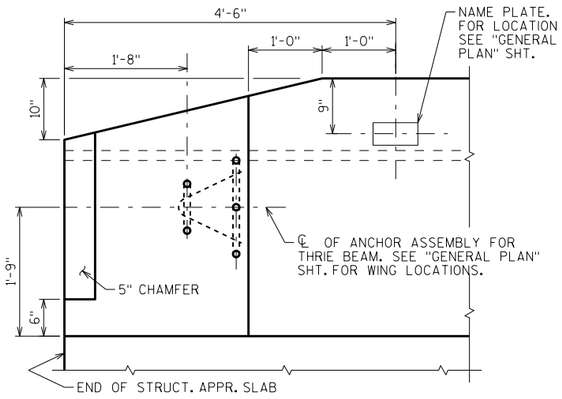
SECTION A-A



SECTION B-B



SECTION C-C



PARAPET END TREATMENT DETAIL

LOOKING AT INSIDE FACE OF PARAPET

BILL OF BARS

FOR STRUCTURAL APPROACH SLAB PARAPETS

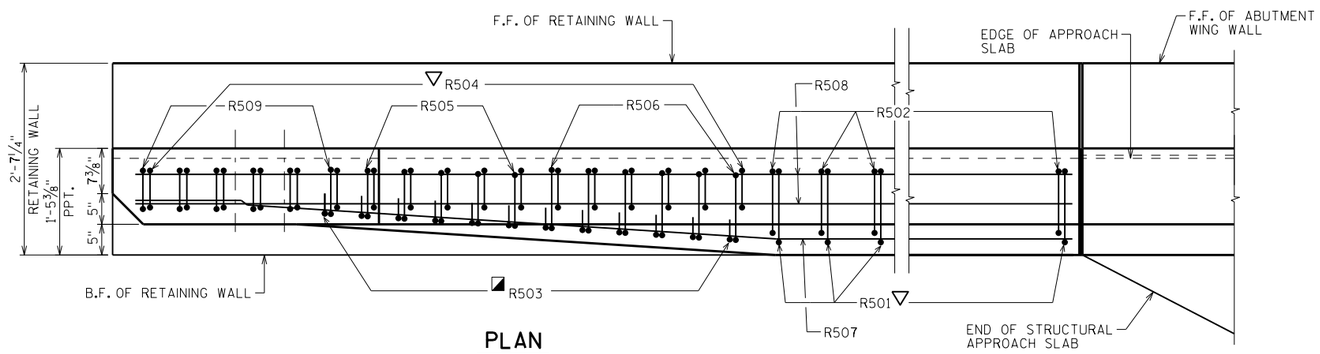
	BAR MARK	COAT	W. APP. SLAB	E. APP. SLAB	LENGTH	BENT	BAR SERIES	LOCATION
▽	R501	X	13	13	5'-10"	X		PARAPET VERT.
	R502	X	13	13	6'-8"	X		PARAPET VERT.
◪	R503	X	12	12	3'-0"	X		PARAPET VERT.
▽	R504	X	17	17	5'-7"	X		PARAPET VERT.
	R505	X	5	5	6'-5"	X		PARAPET VERT.
	R506	X	6	6	6'-6"	X		PARAPET VERT.
	R507	X	1	1	16'-9"	X		PARAPET HORIZ.
	R508	X	5	5	16'-8"			PARAPET HORIZ.
	R509	X	6	6	5'-5"	X	◭	PARAPET VERT.
	R510	X	2	2	16'-9"	X		PARAPET HORIZ.

◭ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

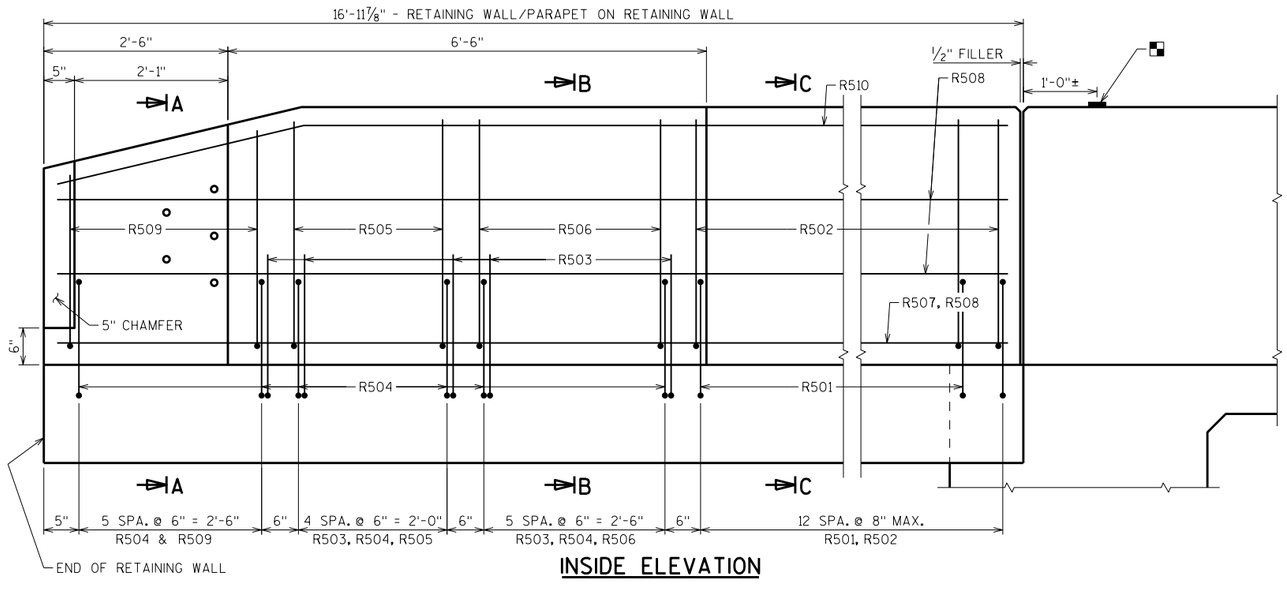
BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
R509	2 SERIES OF 6	4'-9" TO 6'-1"

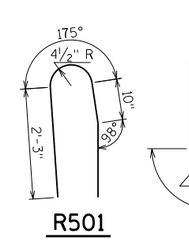
BUNDLE AND TAG EACH SERIES SEPARATELY.



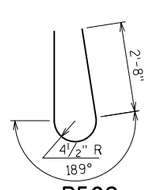
PLAN



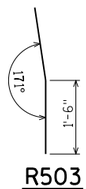
INSIDE ELEVATION



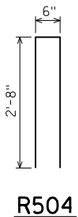
R501



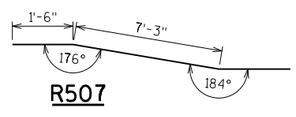
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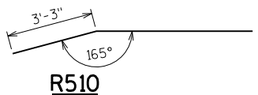
R503



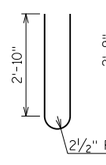
R504



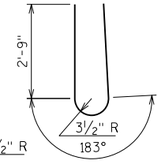
R507



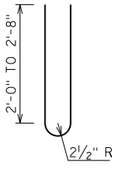
R510



R505

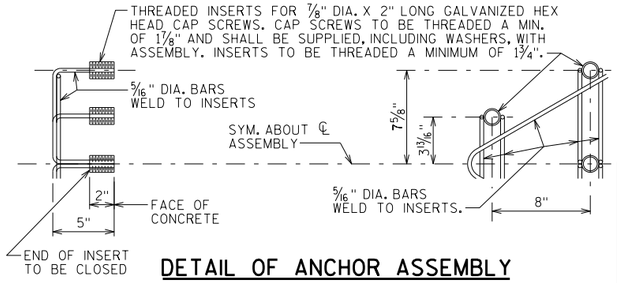


R506



R509

BENCH MARK CAP (WHEN SUPPLIED). AVOID PLACING A BENCH MARK CAP BELOW A RAIL OR FENCE SYSTEM THAT IS ATTACHED TO THE TOP OF THE PARAPET.



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

◐ CONST. JOINT - STRIKE OFF AS SHOWN

◆ SLOPE FOR DRAINAGE

◪ R503 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ R501 AND R504 BARS TO BE TIED TO RETAINING WALL STEEL BEFORE RETAINING WALL IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY MJH | PLANS CK'D. EMK

42SS PARAPET ON RETAINING WALLS

SHEET 31

292

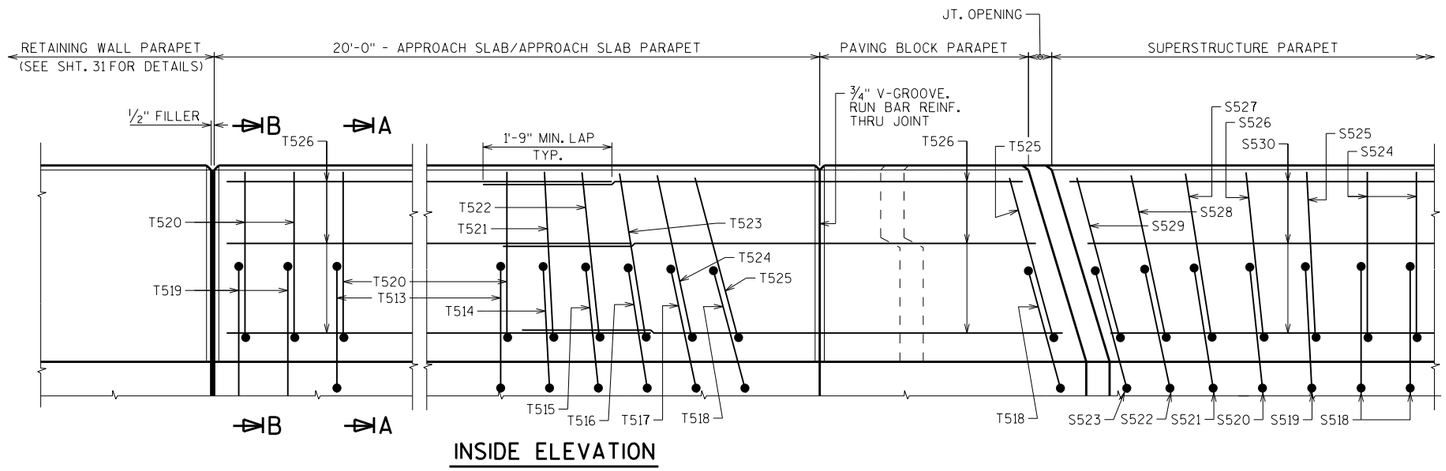
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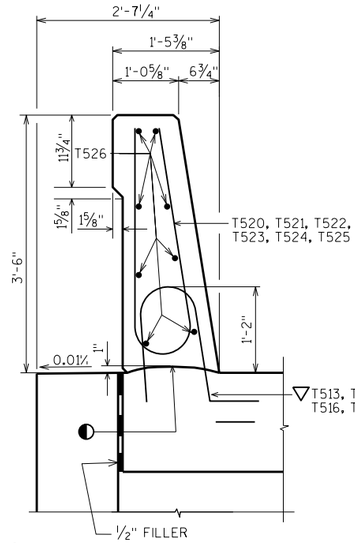
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STATE PROJECT NUMBER

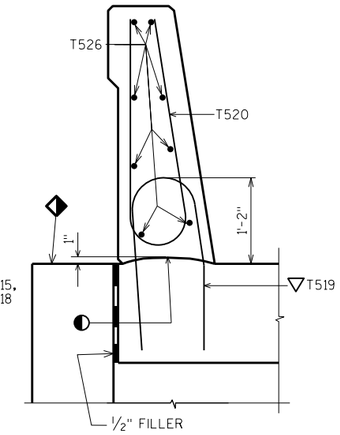
1146-75-71



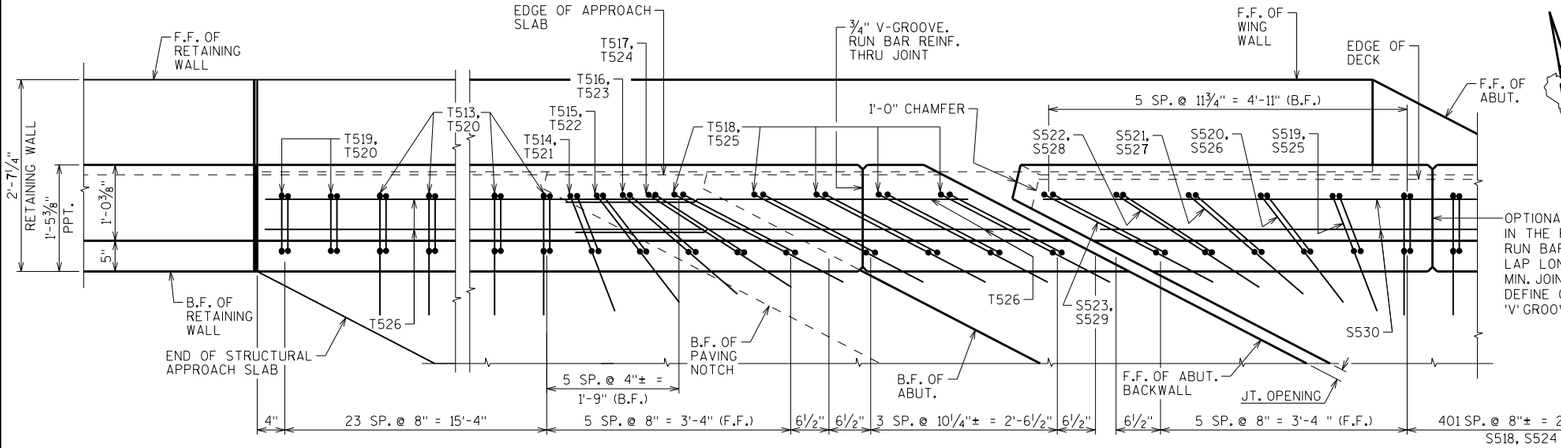
INSIDE ELEVATION



SECTION A

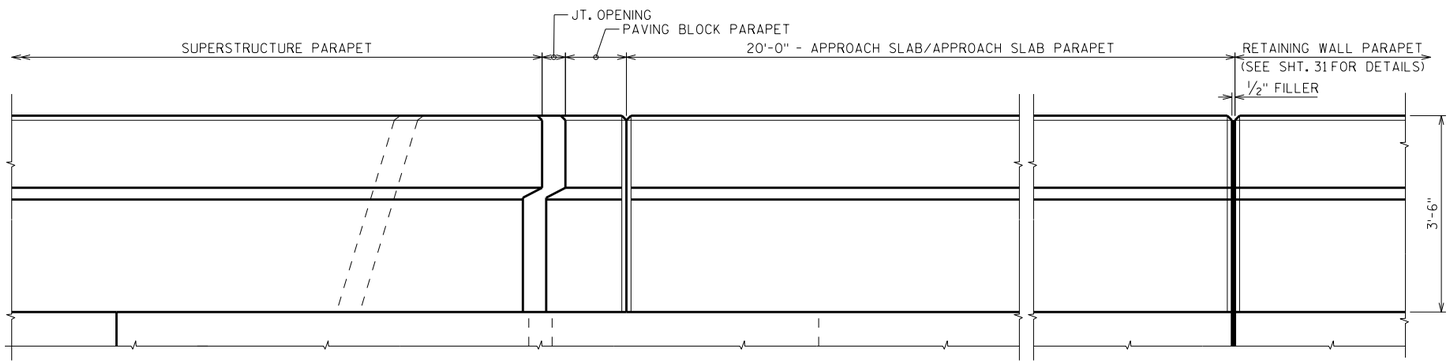


SECTION B



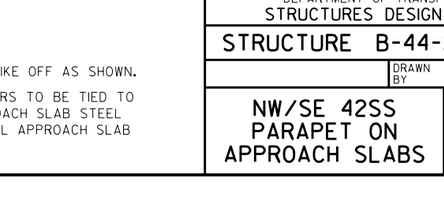
PLAN

OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF. THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE CONST. JOINT WITH A 3/4" - 'V' GROOVE.



OUTSIDE ELEVATION

(WING NOT SHOWN FOR CLARITY)



SECTION THRU PARAPET ON BRIDGE

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

▽ T513 THRU T519 BARS TO BE TIED TO STRUCTURAL APPROACH SLAB STEEL BEFORE STRUCTURAL APPROACH SLAB IS POURED.

NOTE: SEE 'SUPERSTRUCTURE' AND 'APPROACH SLAB' SHEETS FOR PARAPETS BAR DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

NW/SE 42SS PARAPET ON APPROACH SLABS

SHEET 32

293

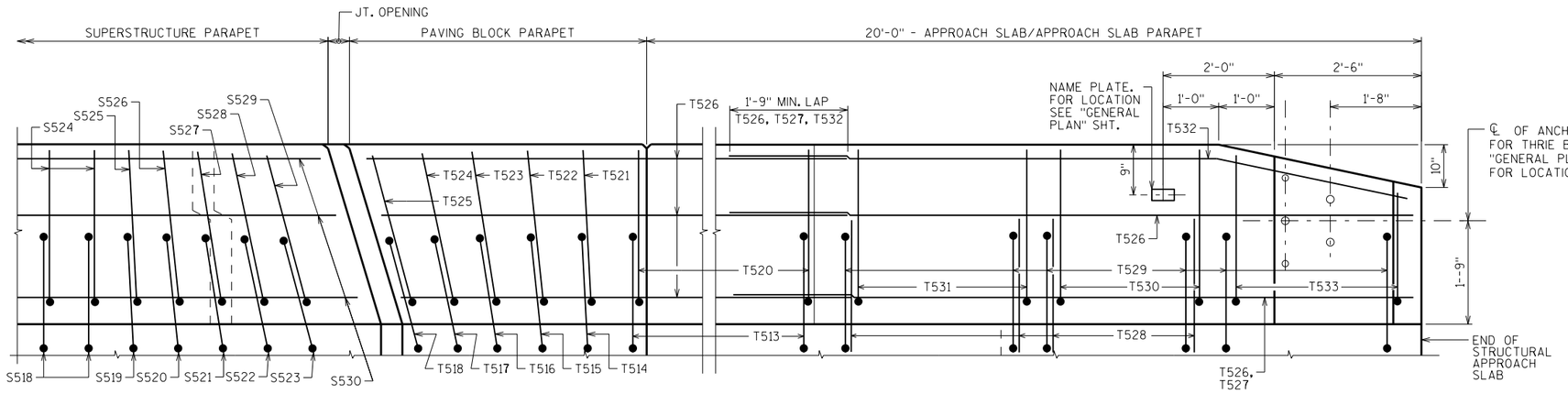
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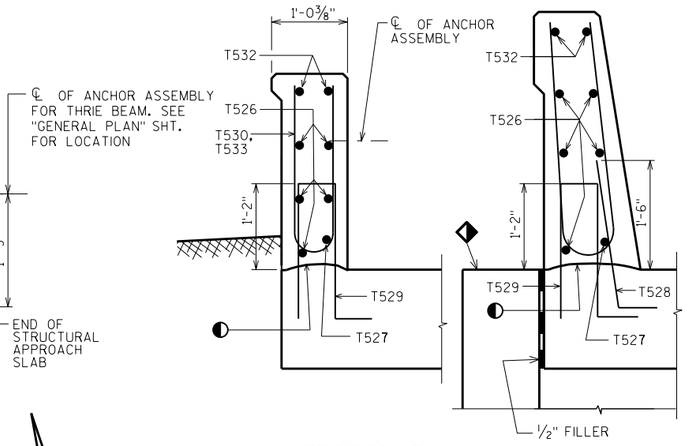
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STATE PROJECT NUMBER

1146-75-71

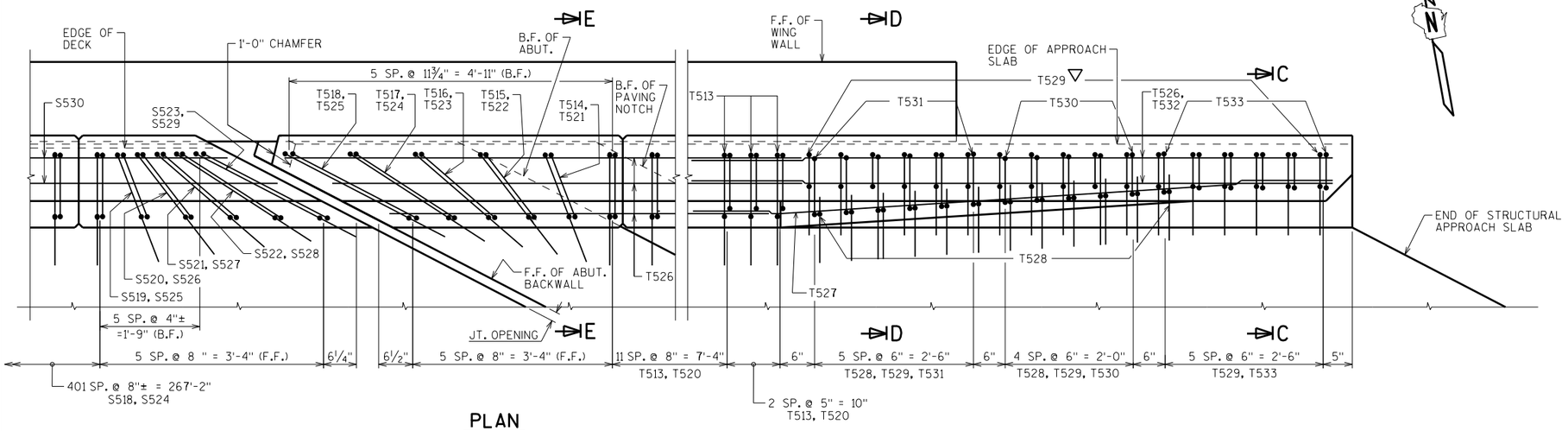


INSIDE ELEVATION

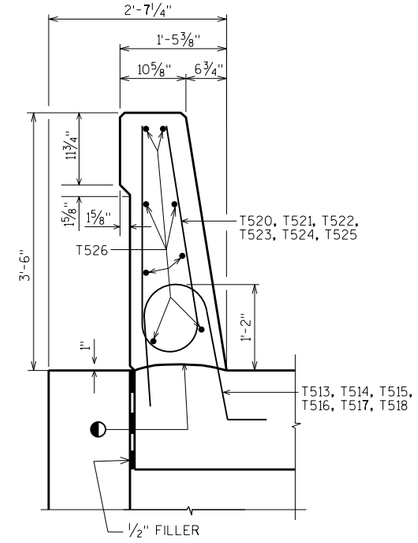


SECTION C

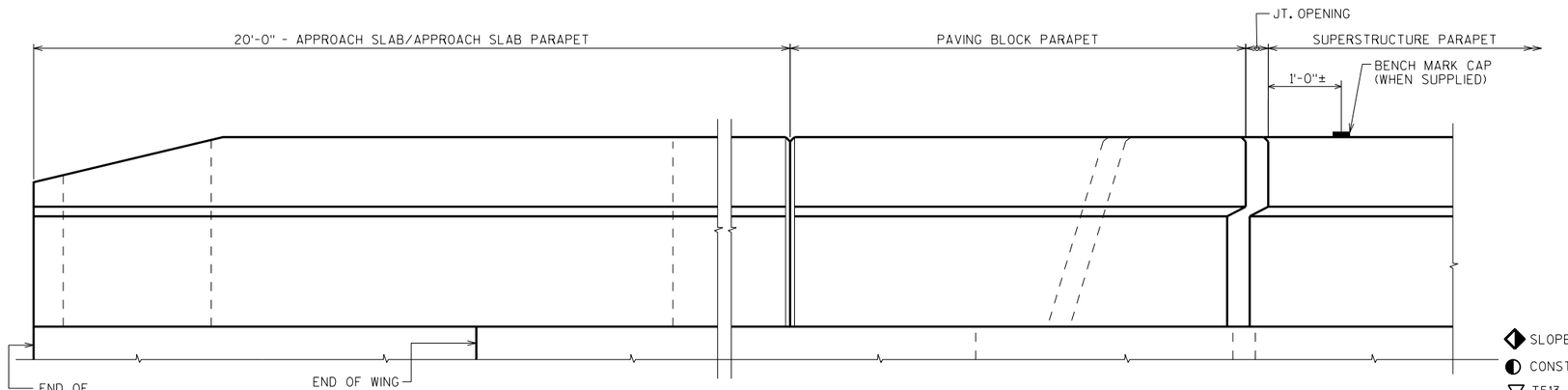
SECTION D



PLAN



SECTION E



OUTSIDE ELEVATION

(WING NOT SHOWN FOR CLARITY)

◆ SLOPE FOR DRAINAGE

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

▽ T513 THRU T519, T528 & T529 BARS TO BE TIED TO STRUCTURAL APPROACH SLAB STEEL BEFORE STRUCTURAL APPROACH SLAB IS POURED.

NOTE: SEE 'SUPERSTRUCTURE' AND 'APPROACH SLAB' SHEETS FOR PARAPETS BAR DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

NE/SW 42SS PARAPET ON APPROACH SLABS

SHEET 33

294

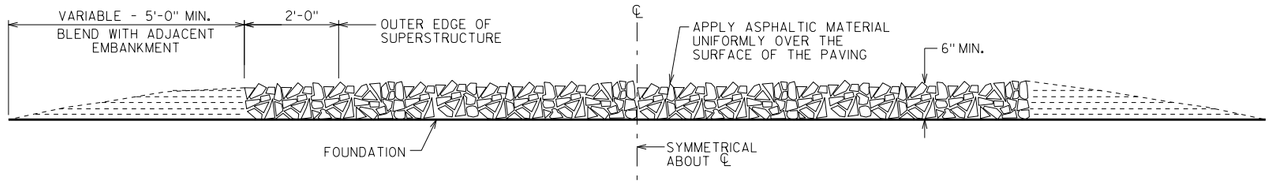
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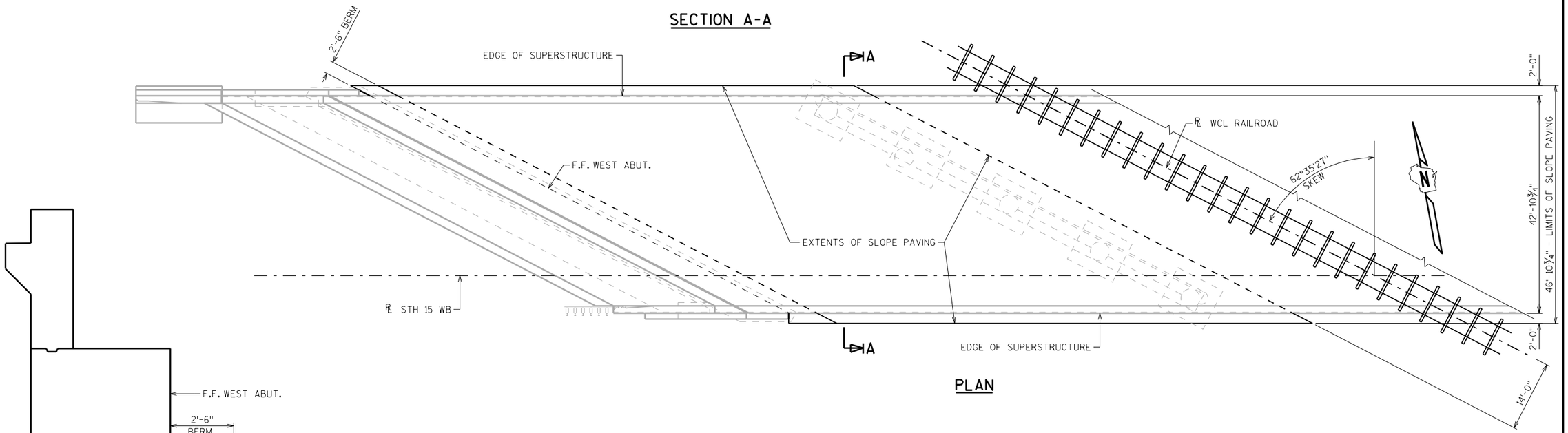
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STATE PROJECT NUMBER

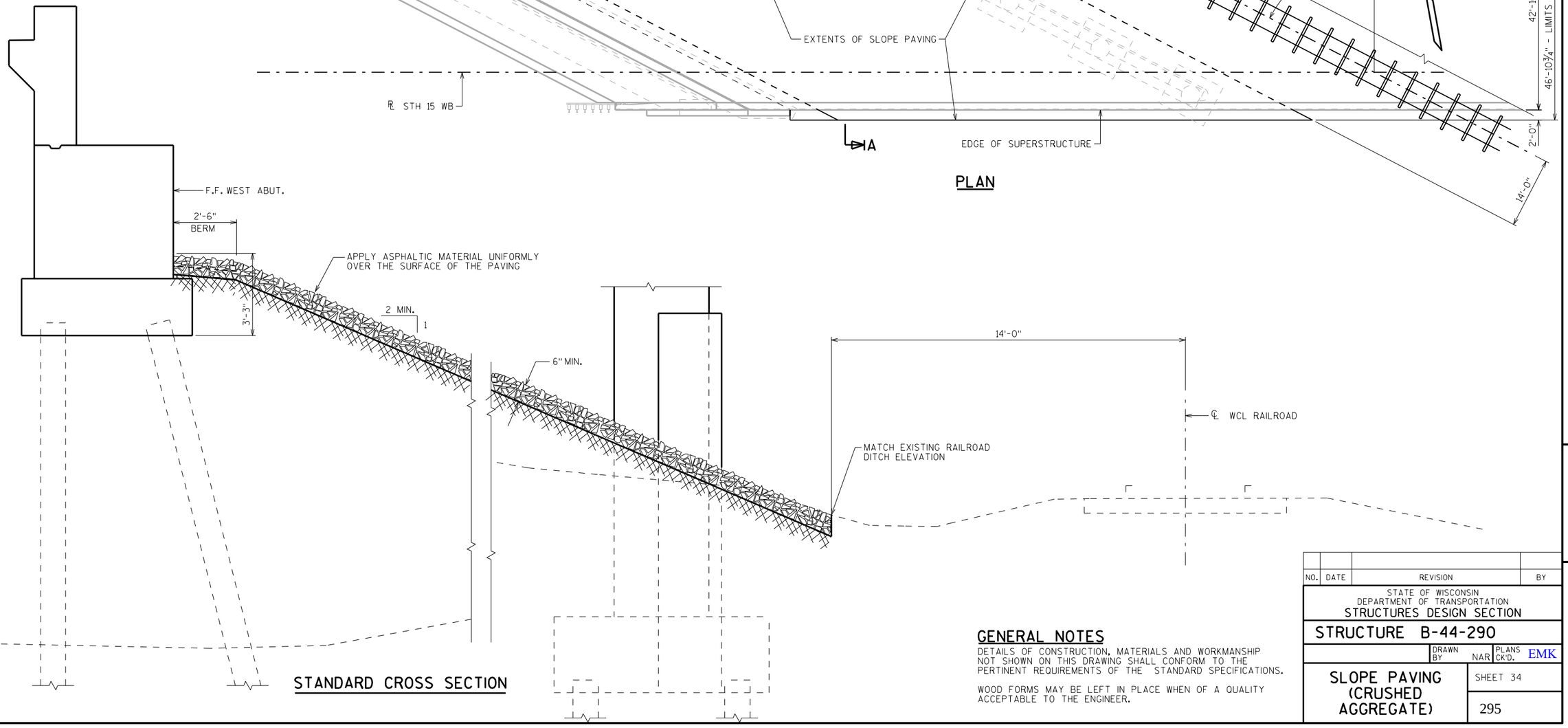
1146-75-71



SECTION A-A



PLAN



STANDARD CROSS SECTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

WOOD FORMS MAY BE LEFT IN PLACE WHEN OF A QUALITY ACCEPTABLE TO THE ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

SLOPE PAVING (CRUSHED AGGREGATE)

SHEET 34

295

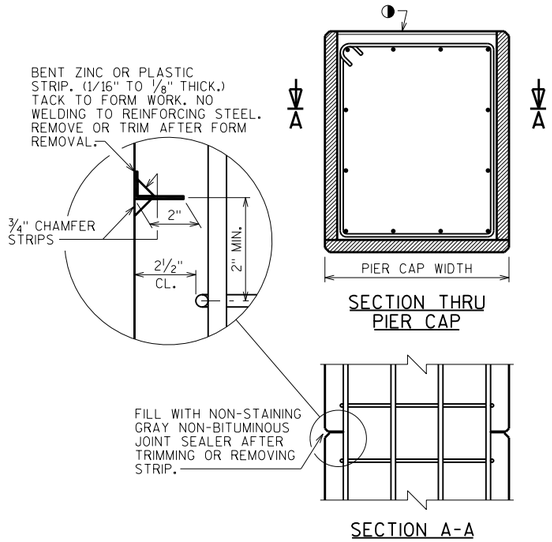
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STATE PROJECT NUMBER

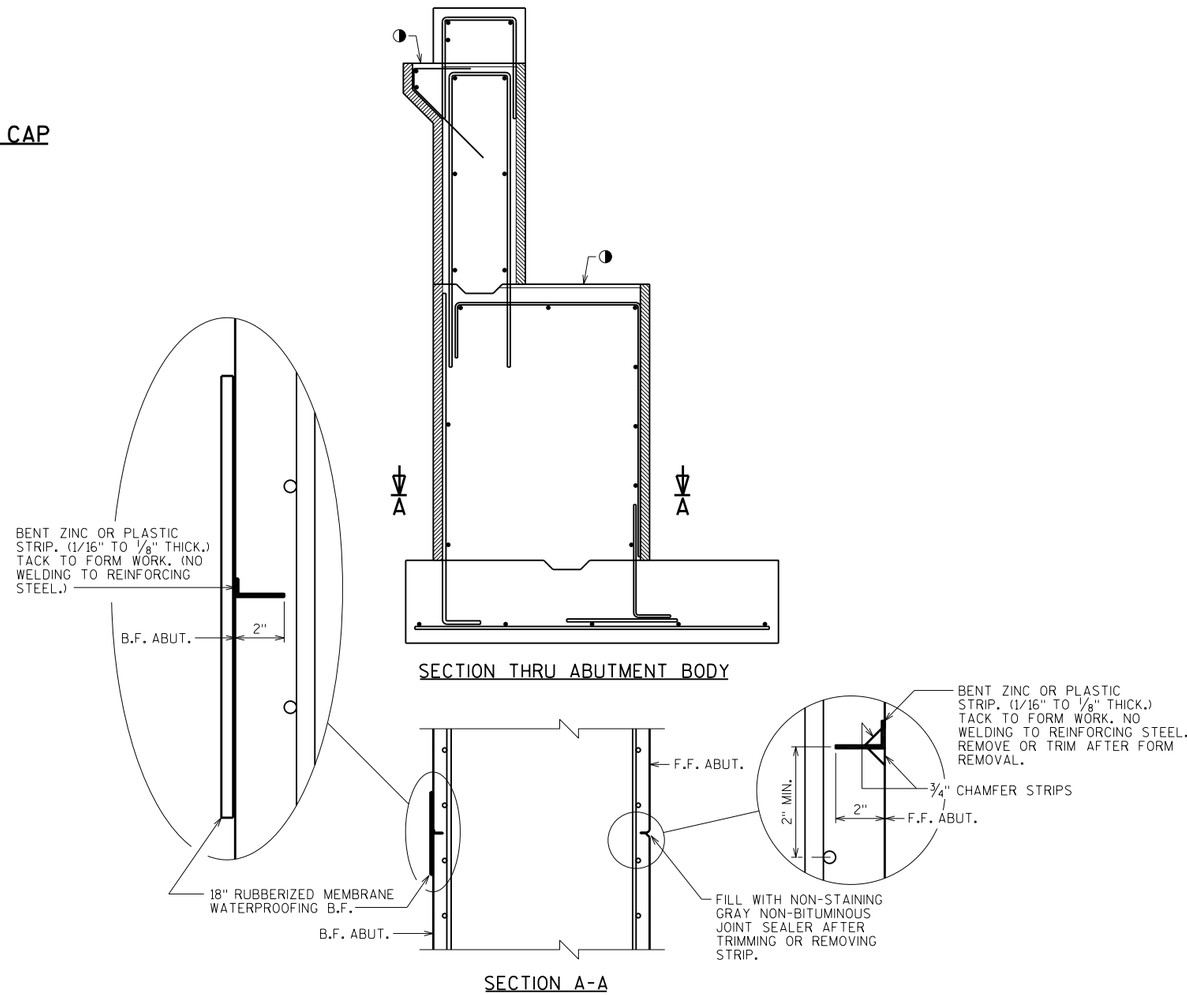
1146-75-71



SECTION THRU PIER CAP

SECTION A-A

ALTERNATE CONSTRUCTION JOINT AT PIER CAP



SECTION THRU ABUTMENT BODY

SECTION A-A

ALTERNATE CONSTRUCTION JOINT AT ABUTMENT

NOTES

PARTIAL ZINC OR PLASTIC BULKHEAD MAY BE USED AS ALTERNATE CONSTRUCTION JOINT, WITH THE PERMISSION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

VERTICAL CONSTRUCTION JOINT KEYWAY IS NOT REQUIRED WHEN USING ALTERNATE CONSTRUCTION JOINT.

CARE IS TO BE USED IN CASTING CONCRETE AROUND BULKHEAD TO PREVENT DISLOCATION OR MISALIGNMENT OF THE BULKHEAD.

SAW CUTTING JOINT IS NOT ALLOWED.

REPRESENTATIVE BAR STEEL SHOWN. SEE ABUTMENT AND PIER SHEETS FOR ACTUAL BAR STEEL DETAILS.

◑ USE A JOINT TOOL TO CONSTRUCT A CONTRACTION JOINT APPROXIMATELY 1/2" DEEP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY NAR | PLANS CK'D. EMK

ALTERNATE CONSTRUCTION JOINT

SHEET 35

296

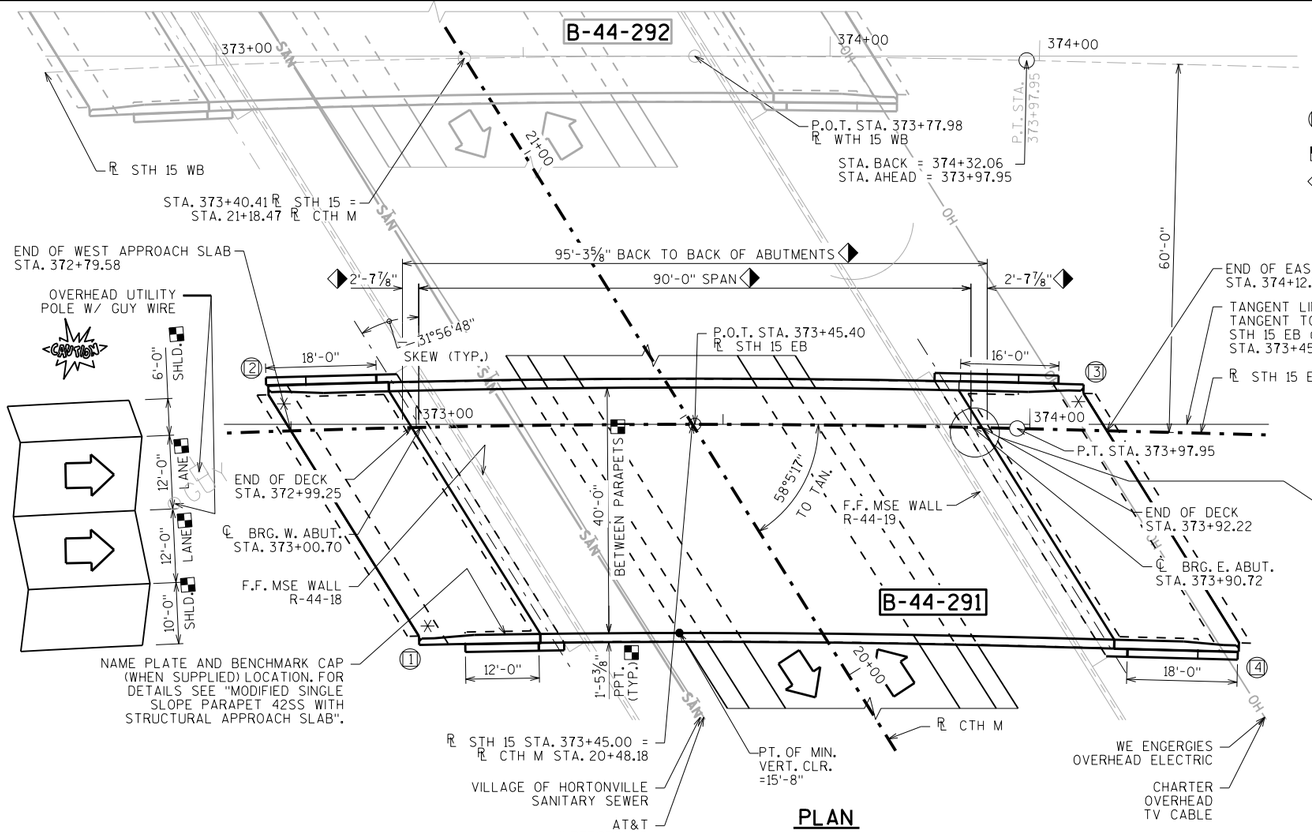
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8

STATE PROJECT NUMBER

1146-75-71



PLAN

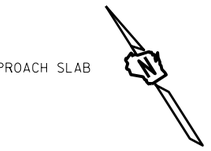
SINGLE SPAN - 36W" PRESTRESSED GIRDERS

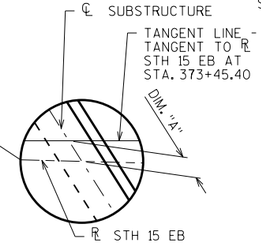
✳ PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT AT UNUSED ANCHOR ASSEMBLIES CAULK HOLES SHUT WITH "100% SILICONE CAULK".

INDICATES WING NUMBER

MEASURED RADIALLY

MEASURED ALONG TANGENT LINE





DESIGN DATA

LIVE LOAD:

DESIGN LOADING; HL-93
INVENTORY RATING FACTOR: RF=1.04
OPERATING RATING FACTOR: RF=1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 240 (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY SUPERSTRUCTURE — f'c = 4,000 P.S.I. ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 P.S.I.

36W" PRESTRESSED GIRDERS, CONCRETE MASONRY — f'c = 8,000 P.S.I.
STRANDS- 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 12X53 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 220 TONS✳✳ PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 35'-0" LONG AT THE WEST ABUTMENT, PILE POINTS REQUIRED.
ESTIMATED 30'-0" LONG AT THE EAST ABUTMENT, PILE POINTS REQUIRED.

✳✳ THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TANGENT OFFSET DETAIL

LOCATION	DIM. "A" (ALONG ℄ SUB.)
WEST ABUT.	0'-6⅞"
EAST ABUT.	0'-7⅛"

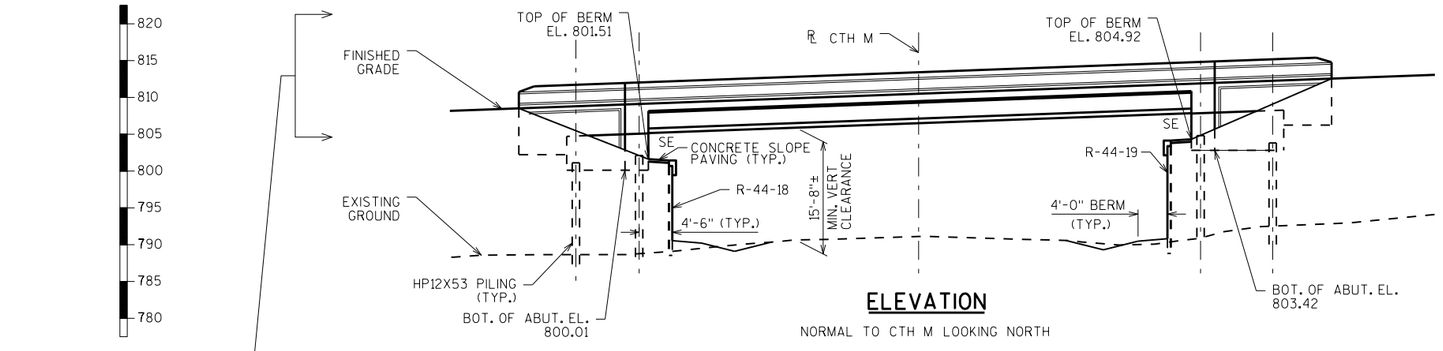
TRAFFIC VOLUME

STH 15 EB
A.D.T. = 15,000 (2040)
R.D.S. = 60 M.P.H.

CTH M
A.D.T. = 3,200 (2040)
R.D.S. = 40 M.P.H.

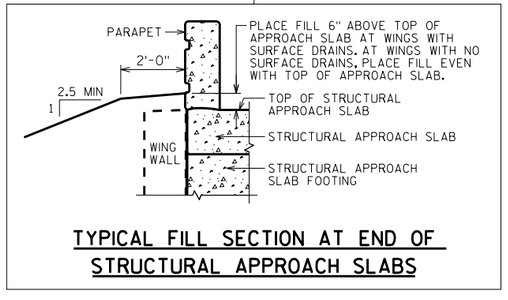
CURVE DATA

STH 15 : EB-9	STH 15 : WB-9
P.I. = 368+34.14	P.I. = 368+51.67
Δ = 32° 34' 40"	Δ = 32° 34' 40"
D = 2° 48' 31"	D = 2° 43' 42"
T = 596.11	T = 613.64
L = 1159.92	L = 1194.04
R = 2040.00	R = 2100.00
S.E. = VARIES	S.E. = VARIES
P.C. = 362+38.03	P.C. = 362+38.03
P.T. = 373+97.95	P.T. = 373+97.95 (AHEAD) 374+32.06 (BACK)

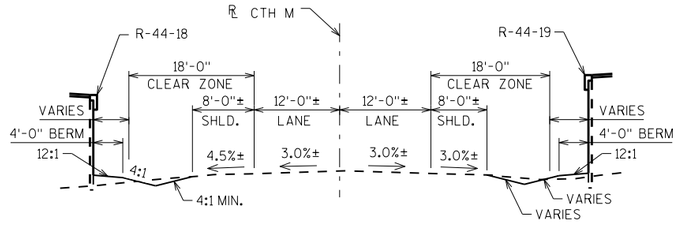


ELEVATION

NORMAL TO CTH M LOOKING NORTH



TYPICAL FILL SECTION AT END OF STRUCTURAL APPROACH SLABS



TYPICAL SECTION THRU CTH M

NORMAL TO CTH M LOOKING NORTH

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION
3. QUANTITIES
4. SUBSURFACE EXPLORATION
5. WEST ABUTMENT
6. WEST ABUTMENT DETAILS
7. EAST ABUTMENT
8. EAST ABUTMENT DETAILS
9. 36W" PRESTRESSED GIRDER DETAILS 1
10. 36W" PRESTRESSED GIRDER DETAILS 2
11. STEEL DIAPHRAGM
12. SUPERSTRUCTURE CROSS SECTION
13. SUPERSTRUCTURE
14. SUPERSTRUCTURE BAR DETAILS
15. DECK LAYOUT
16. W. STRUCTURAL APPROACH SLAB
17. W. STRUCT. APP. SLAB DETAILS
18. E. STRUCTURAL APPROACH SLAB
19. E. STRUCT. APP. SLAB DETAILS
20. MODIFIED SINGLE SLOPE PARAPET 42SS
21. AESTHETIC DETAILS
22. ALTERNATE CONSTRUCTION JOINT

STRUCTURE DESIGN CONTACTS:

STACIE WEIS (608) 261-6109
DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION — BUREAU OF STRUCTURES

ACCEPTED DMB 01/06/21
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-44-291

STH 15 EB OVER CTH M

COUNTY	TOWN/~~CITY~~/VILLAGE
OUTAGAMIE	HORTONIA/HORTONVILLE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
SEW	MSC	SEW	MSC

GENERAL PLAN

SHEET 1 OF 22

297

I.D. 1146-75-00BZ DATE: JAN. 2021

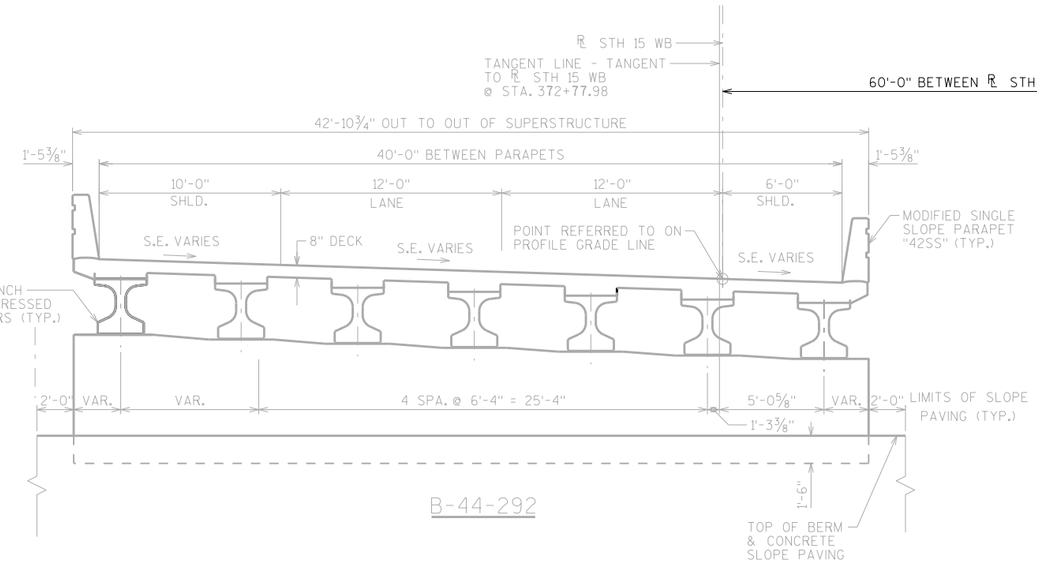
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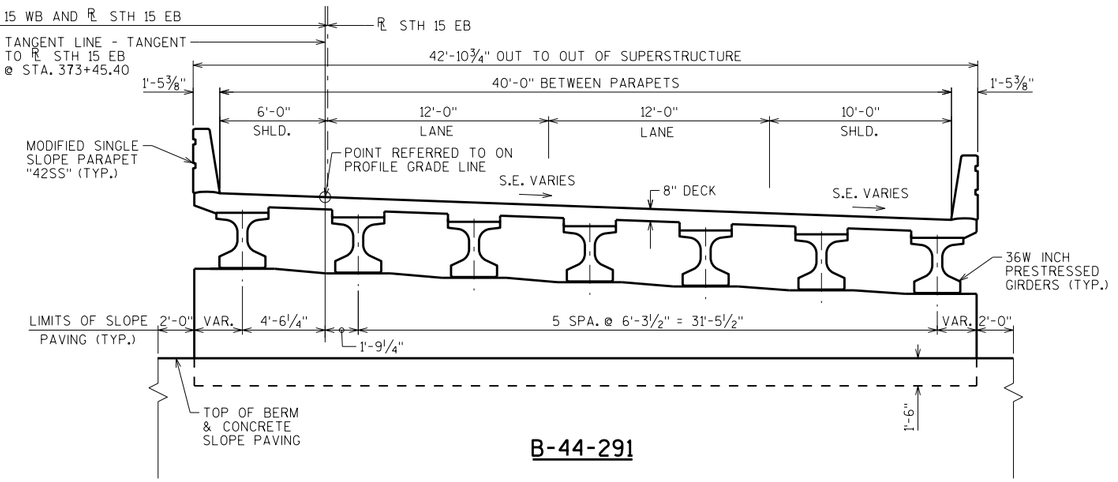
8

8

STATE PROJECT NUMBER

1146-75-71





CROSS SECTION THRU ROADWAY LOOKING EAST

(ALL HORIZONTAL DIMENSIONS ARE MEASURED RADIALLY - NORMAL TO THE CURVE ℄ STH 15 EB)

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY SEW | PLANS CK'D. MSC

CROSS SECTION

SHEET 2

298

SCALE = 4.00

STATE PROJECT NUMBER

1146-75-71

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE AND THE TOP OF STRUCTURAL APPROACH SLABS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS.

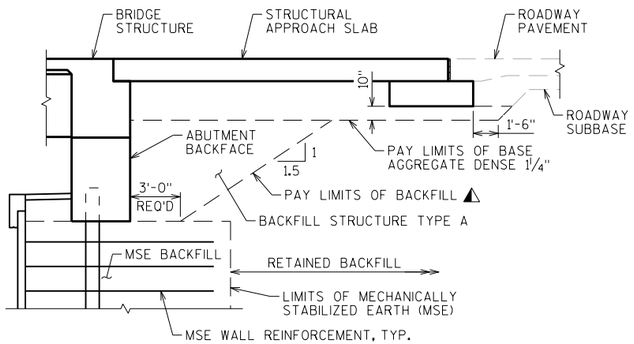
THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.

THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF B-44-291 WITH RETAINING WALLS R-44-18 AND R-44-19.

■ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

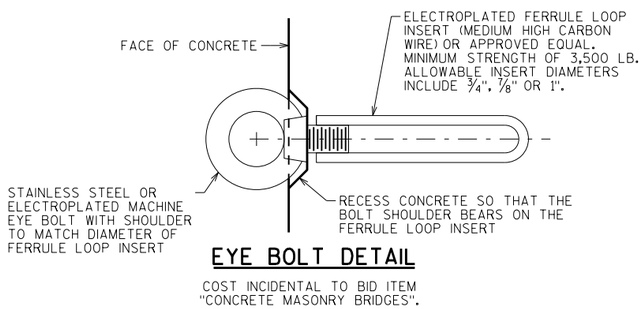
TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	WEST APP. SLAB	WEST ABUT.	EAST ABUT.	EAST APP. SLAB	TOTALS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-44-291	LS	———	———	———	———	———	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	———	———	184	168	———	352
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	———	132	———	———	136	268
502.0100	CONCRETE MASONRY BRIDGES	CY	197	62	61	59	64	443
502.3200	PROTECTIVE SURFACE TREATMENT	SY	415	90	———	———	90	595
502.3210	PIGMENTED SURFACE SEALER	SY	91	21	———	———	21	133
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF	637	———	———	———	———	637
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	———	———	4215	3785	———	8000
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	26685	10620	2030	2150	10975	52460
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	1480	———	———	———	———	1480
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	14	———	———	———	———	14
506.4000	STEEL DIAPHRAGMS B-44-291	EACH	12	———	———	———	———	12
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	———	———	14	16	———	30
550.0500	PILE POINTS	EACH	———	———	10	10	———	20
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF	———	———	350	300	———	650
604.0400	SLOPE PAVING CONCRETE	SY	———	———	17	17	———	34
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	3	———	———	———	———	3
			———	———	———	———	———	
	NON-BID ITEMS		———	———	———	———	———	
	FILLER	SIZE	———	———	———	———	———	½", ¾" &1½"



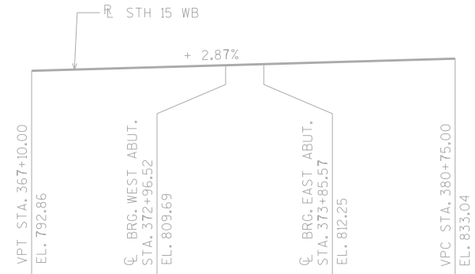
TYPICAL SECTION THRU ABUTMENT

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.



EYE BOLT DETAIL

COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".



PROFILE GRADE LINE STH 15 WB

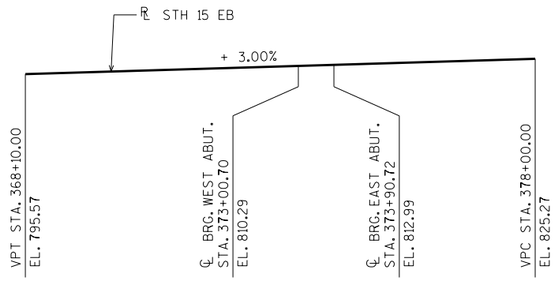
B-44-292 SUPER ELEVATION TRANSITIONS

STATION		DESCRIPTION	LT SHLD.	LT LANE	RT LANE	RT SHLD.
363+08.6875	⚠	BEGIN FULL SUPER	5.30%	5.30%	5.30%	5.30%
373+61.4050	⚠	END FULL SUPER	5.30%	5.30%	5.30%	5.30%
374+13.4050	⚠	LOW SHLD MATCH	4.00%	4.00%	4.00%	4.00%
374+59.2897	◪	REVERSE CROWN	2.00%	2.00%	2.00%	4.00%

⚠ STA. BACK, ◪ STA. AHEAD

** PT STA. EON: STA. BACK = 374+32.06; STA. AHEAD = 373+97.95

NOTE: SUPER ELEVATION INFORMATION PROVIDED FOR INFORMATIONAL PURPOSES ONLY.



PROFILE GRADE LINE STH 15 EB

B-44-291 SUPER ELEVATION TRANSITIONS

STATION	DESCRIPTION	LT SHLD.	LT LANE	RT LANE	RT SHLD.
363+10.0207	BEGIN FULL SUPER	5.40%	5.40%	5.40%	5.40%
373+25.9565	END FULL SUPER	5.40%	5.40%	5.40%	5.40%
373+81.9565	LOW SHLD MATCH	4.00%	4.00%	4.00%	4.00%
374+61.9565	REVERSE CROWN	2.00%	2.00%	2.00%	4.00%

NOTE: SUPER ELEVATION INFORMATION PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

CTH M EXISTING ELEVATIONS

STATION	℄ ELEVATION
20+00.00	791.18
20+25.00	790.78
20+50.00	790.39
20+75.00	790.01
21+00.00	789.67
21+25.00	789.36
21+50.00	789.07
21+75.00	788.75
22+00.00	788.42

NOTE: EXISTING ELEVATIONS PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY SEW | PLANS CK'D. MSC

QUANTITIES

SHEET 3

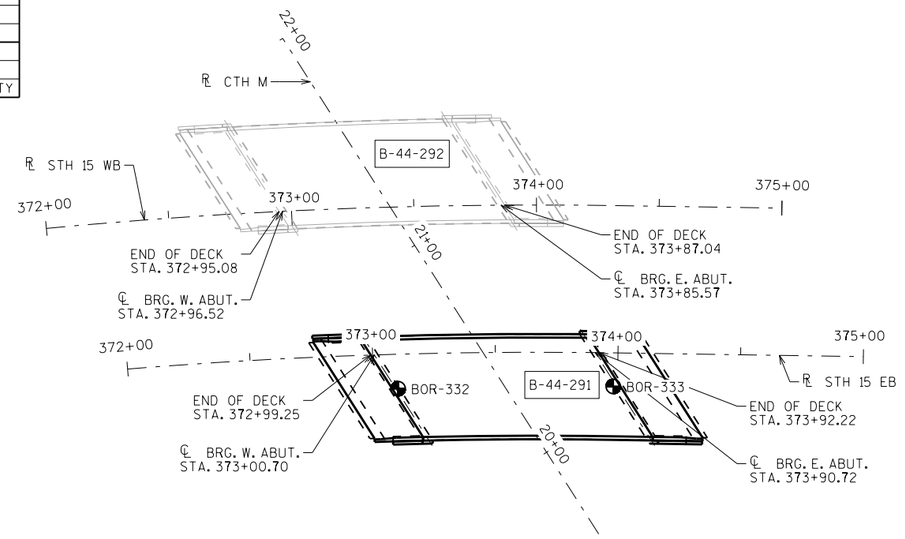
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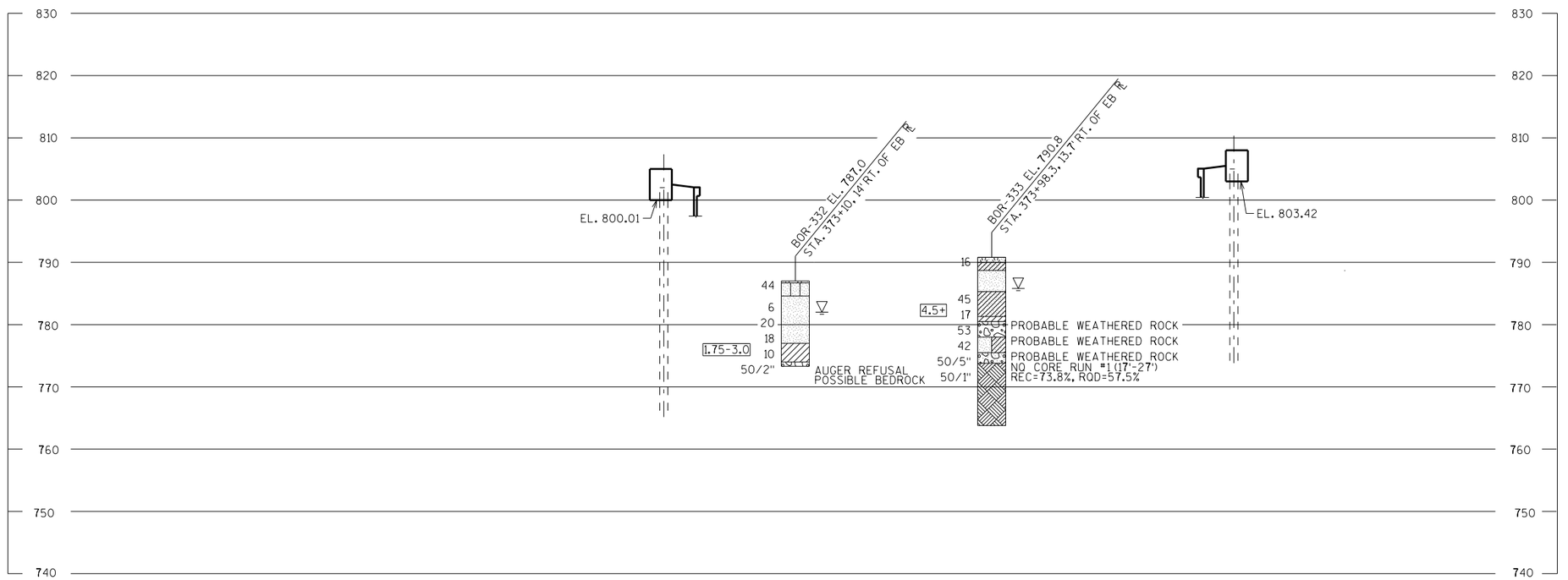
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SCALE = 4.00

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
332	2/27/2014	592755	767493
333	2/28/2014	592708	767567
BORINGS COMPLETED BY: GESTRA			
REPORT COMPLETED BY: CH2M HILL			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY			





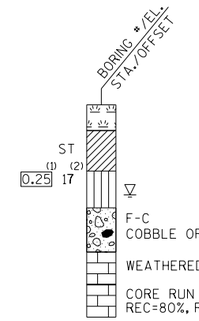
STATE PROJECT NUMBER

1146-75-71

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY TLP | PLANS CK'D. MSC

SUBSURFACE EXPLORATION

SHEET 4

300

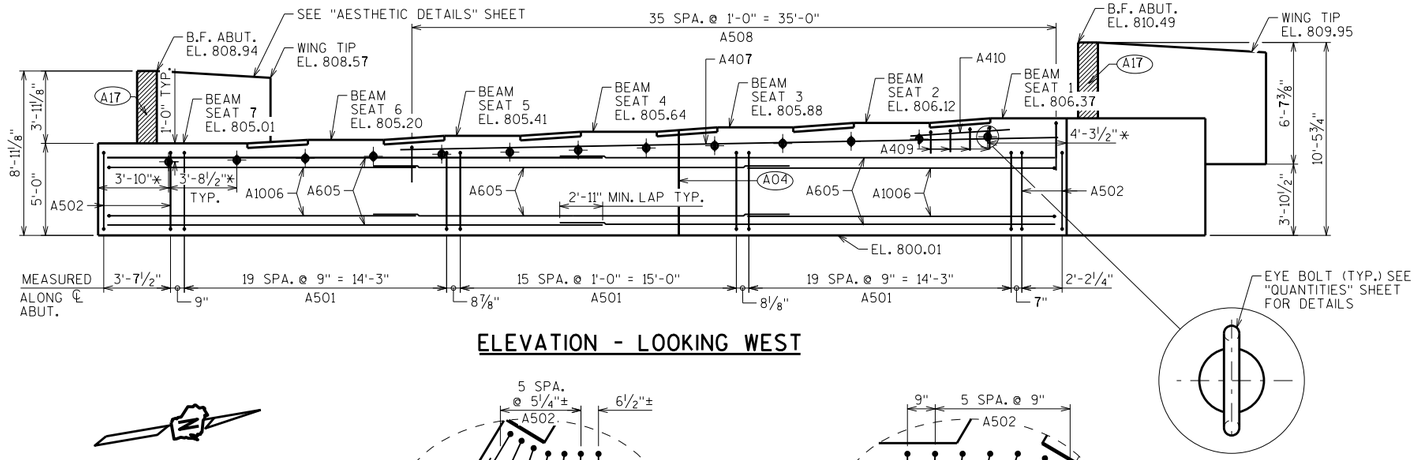
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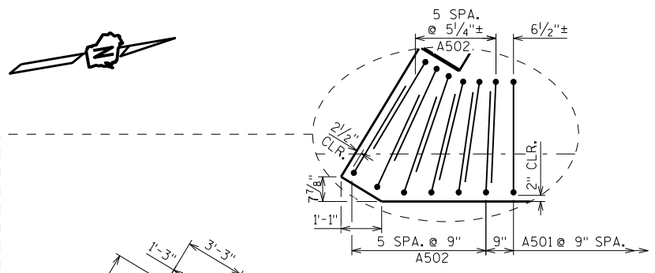
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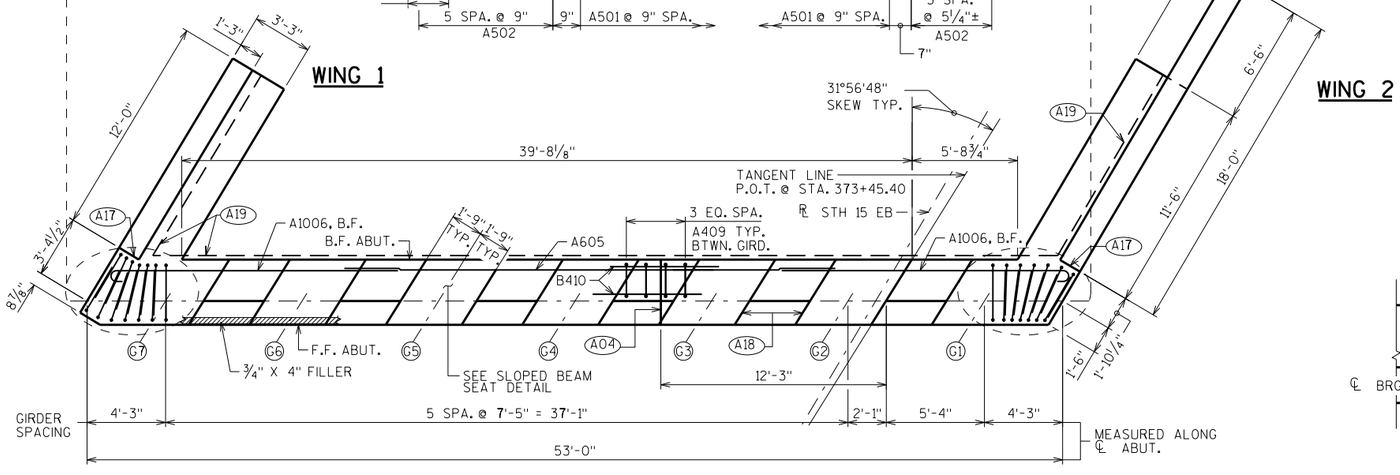
STATE PROJECT NUMBER

1146-75-71

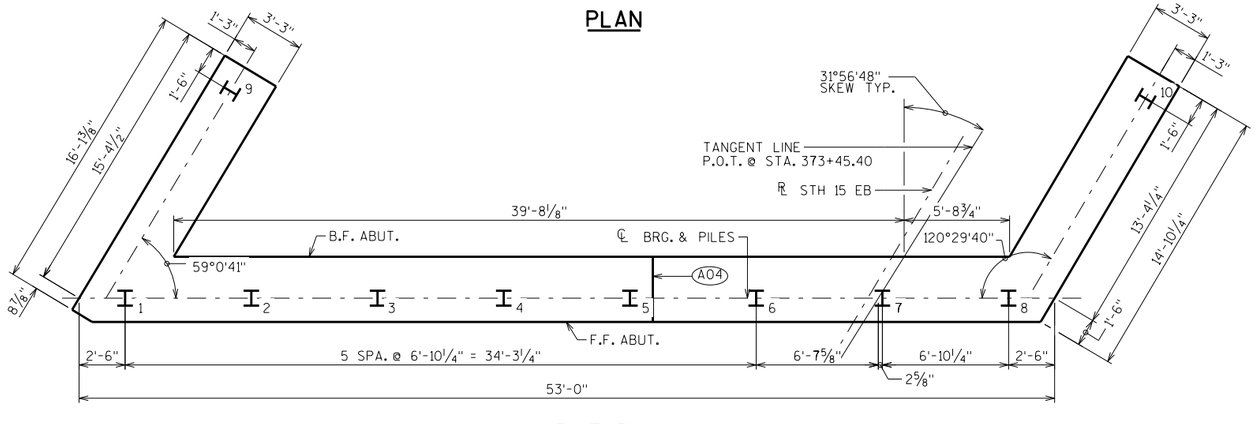


ELEVATION - LOOKING WEST





PLAN

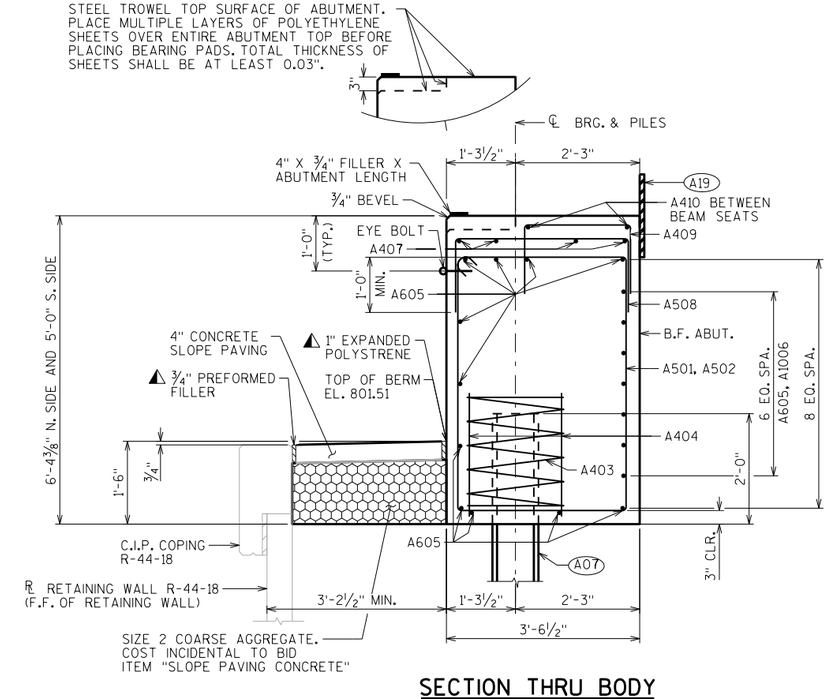


PILE PLAN

* DIMENSION MEASURED ALONG F.F. OF ABUT.

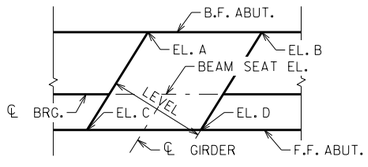
NOTE: FOR EYE BOLT DETAIL SEE "QUANTITIES" SHEET.

STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING PADS. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".



SECTION THRU BODY

BEAM SEAT ELEVATIONS



SLOPED BEAM SEAT

LOCATION	EL. A	EL. B	EL. C	EL. D
GIRDER 1	-0.05	-0.11	0.08	0.01
GIRDER 2	-0.05	-0.11	0.08	0.01
GIRDER 3	-0.05	-0.12	0.08	0.01
GIRDER 4	-0.05	-0.12	0.09	0.01
GIRDER 5	-0.05	-0.13	0.09	0.02
GIRDER 6	-0.06	-0.14	0.10	0.02
GIRDER 7	-0.06	-0.14	0.10	0.02

(A04) VERT. CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 x 8. 3/4" "V" GROOVE @ THE FRONT FACE AND 18" RMW @ BACKFACE. FOR OPTIONAL DETAILS SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.

(A07) SUPPORT ABUTMENT ON HP 12 X 53 STEEL PILING, ESTIMATED 35'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE. PILE POINTS REQUIRED.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED ORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

⚠ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER AND EXPANDED POLYSTYRENE WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1"8" BELOW SURFACE OF CONCRETE).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY SEW | PLANS CK'D. MSC

WEST ABUTMENT

SHEET 5

301

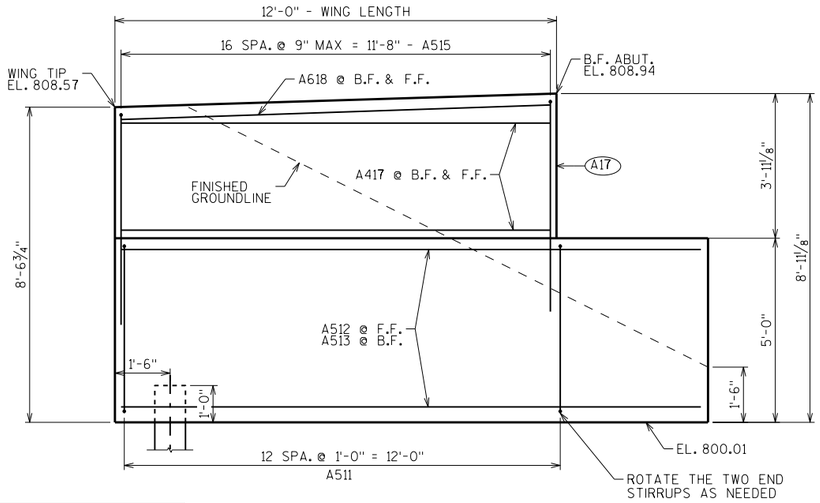
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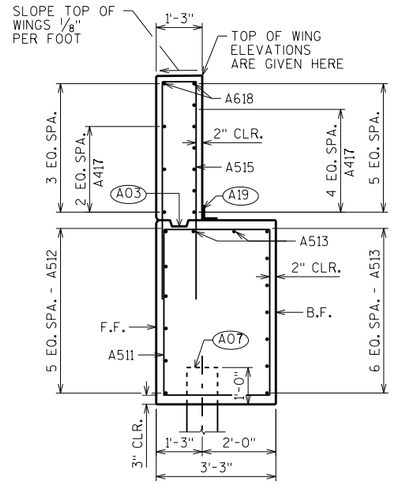
STATE PROJECT NUMBER

1146-75-71

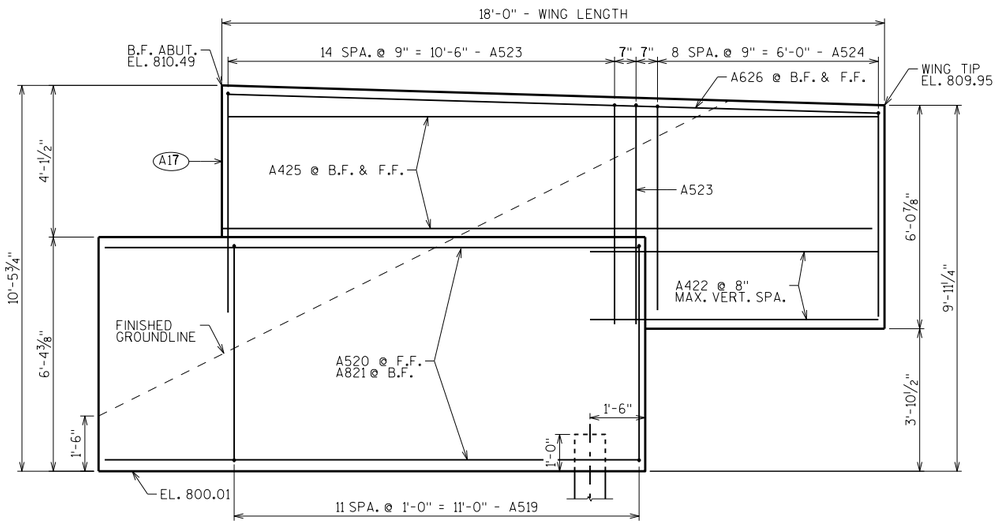


SEE "AESTHETIC DETAILS" SHEET FOR RUSTICATIONS

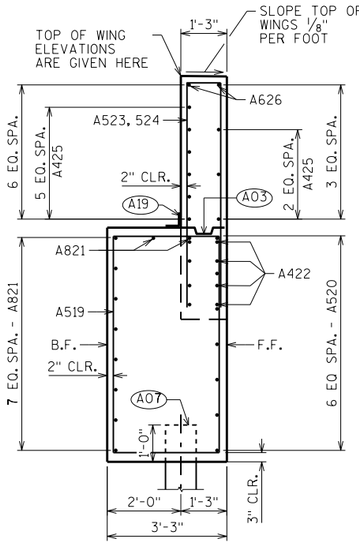
WING 1 ELEVATION



SECTION THRU WING 1



WING 2 ELEVATION



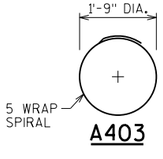
SECTION THRU WING 2

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

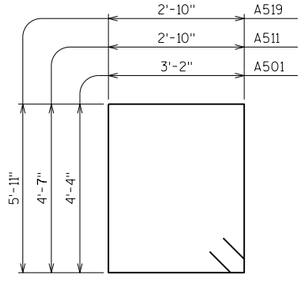
(A07) SUPPORT ABUTMENT ON HP 12 x 53 STEEL PILING, ESTIMATED 35'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

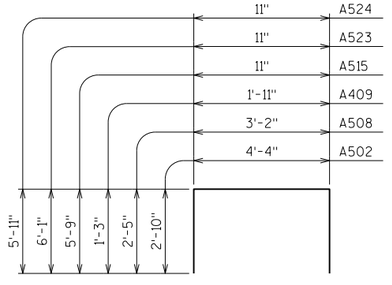
(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



A403



A501, A511, A519

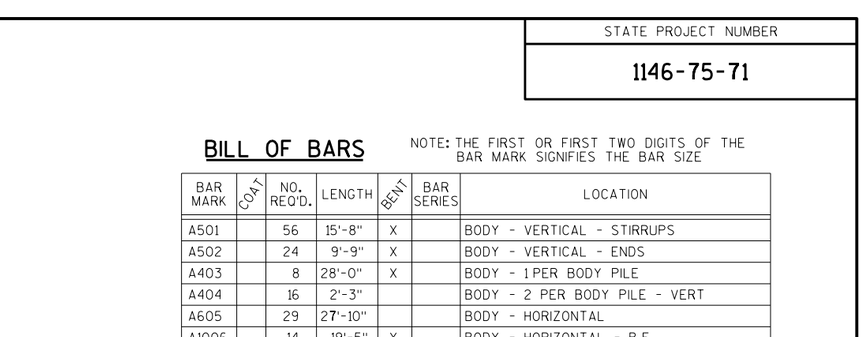


A502, A508, A409, A515 A523, A524

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A501		56	15'-8"	X		BODY - VERTICAL - STIRRUPS
A502		24	9'-9"	X		BODY - VERTICAL - ENDS
A403		8	28'-0"	X		BODY - 1 PER BODY PILE
A404		16	2'-3"			BODY - 2 PER BODY PILE - VERT
A605		29	27'-10"			BODY - HORIZONTAL
A1006		14	19'-5"	X		BODY - HORIZONTAL - B.F.
A407		4	35'-4"			BODY - HORZ - NORTH END ONLY
A508		36	7'-9"	X		BODY - VERT - NORTH END ONLY
A409		24	4'-3"	X		BODY - VERT - BWTN BEAM SEATS
A410		12	5'-5"			BODY - HORZ - BWTN BEAM SEATS
A511	X	13	15'-6"	X		WING 1 - VERTICAL - STIRRUPS
A512	X	6	13'-7"			WING 1 - HORIZONTAL - F.F.
A513	X	9	13'-3"			WING 1 - HORIZONTAL - B.F.
A414	X					NOT USED
A515	X	17	12'-2"	X		WING 1 - VERTICAL
A516	X					NOT USED
A417	X	9	11'-8"			WING 1 - HORZ - B.F. & F.F.
A618	X	2	11'-8"			WING 1 - HORIZONTAL
A519	X	12	18'-2"	X		WING 2 - VERTICAL - STIRRUPS
A520	X	7	14'-6"			WING 2 - HORIZONTAL - F.F.
A821	X	10	16'-1"			WING 2 - HORIZONTAL - B.F.
A422	X	8	7'-10"			WING 2 - HORIZONTAL
A523	X	16	12'-8"	X		WING 2 - VERTICAL
A524	X	9	11'-10"	X		WING 2 - VERTICAL
A425	X	9	17'-8"			WING 2 - HORZ - B.F. & F.F.
A626	X	2	17'-8"			WING 2 - HORIZONTAL

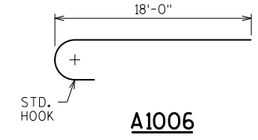


STEEL 'HP' SHAPE

HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

PILE DETAILS



A1006

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

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WEST ABUTMENT DETAILS

SHEET 6

302

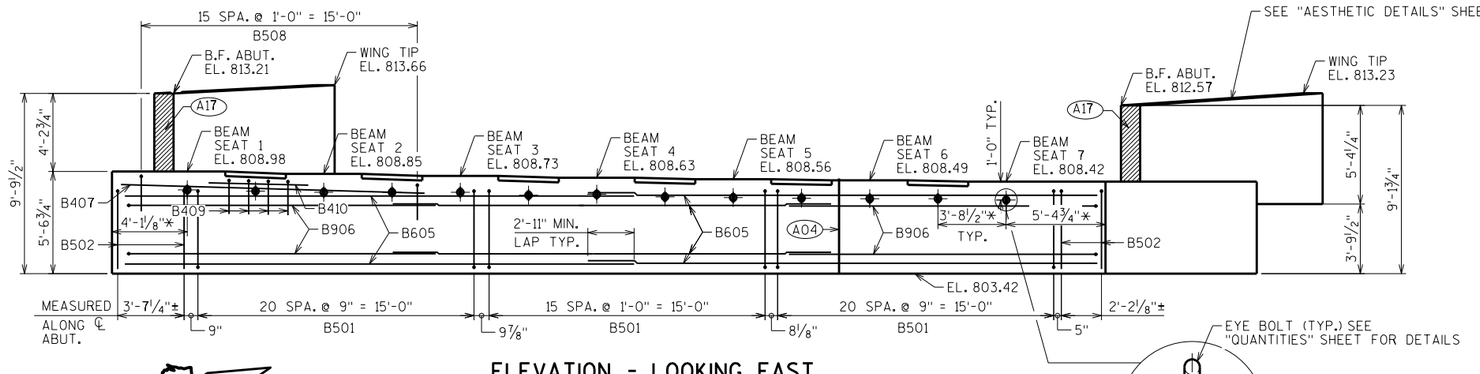
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STATE PROJECT NUMBER

1146-75-71

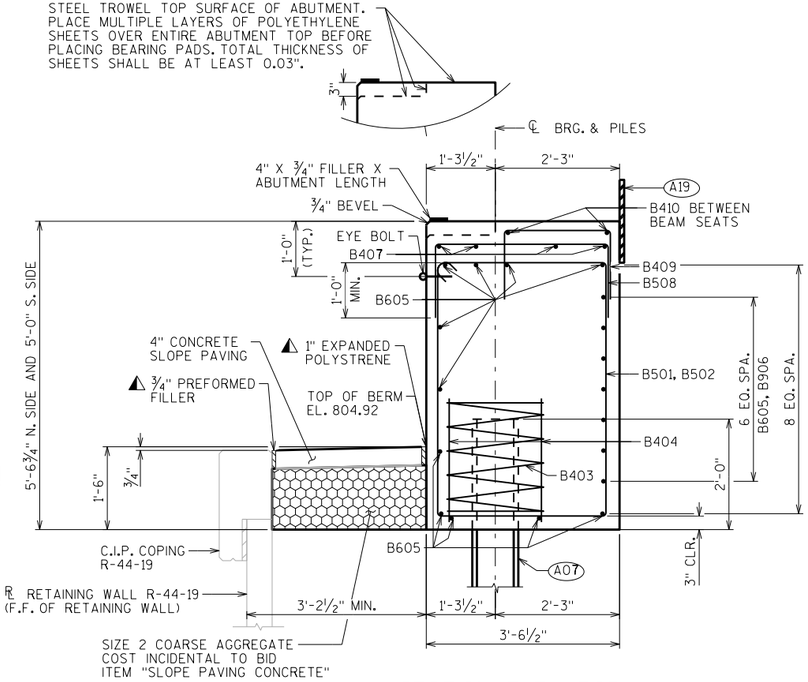


ELEVATION - LOOKING EAST

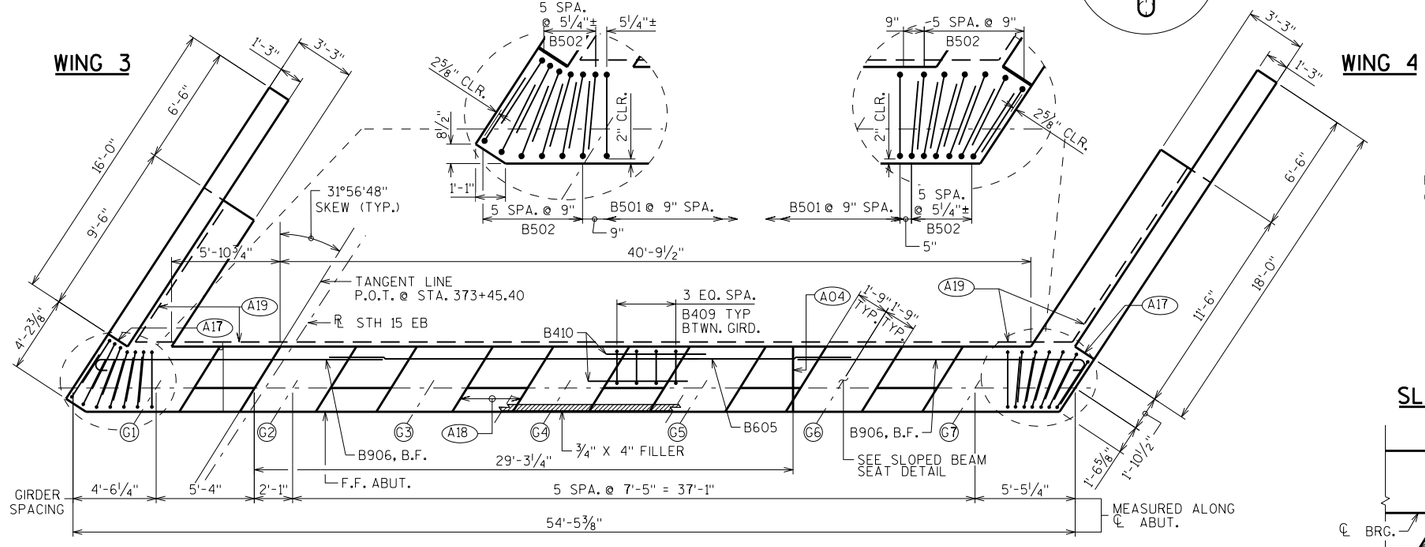
* DIMENSION MEASURED ALONG F.F. OF ABUT.

NOTE: FOR EYE BOLT DETAIL SEE "QUANTITIES" SHEET.

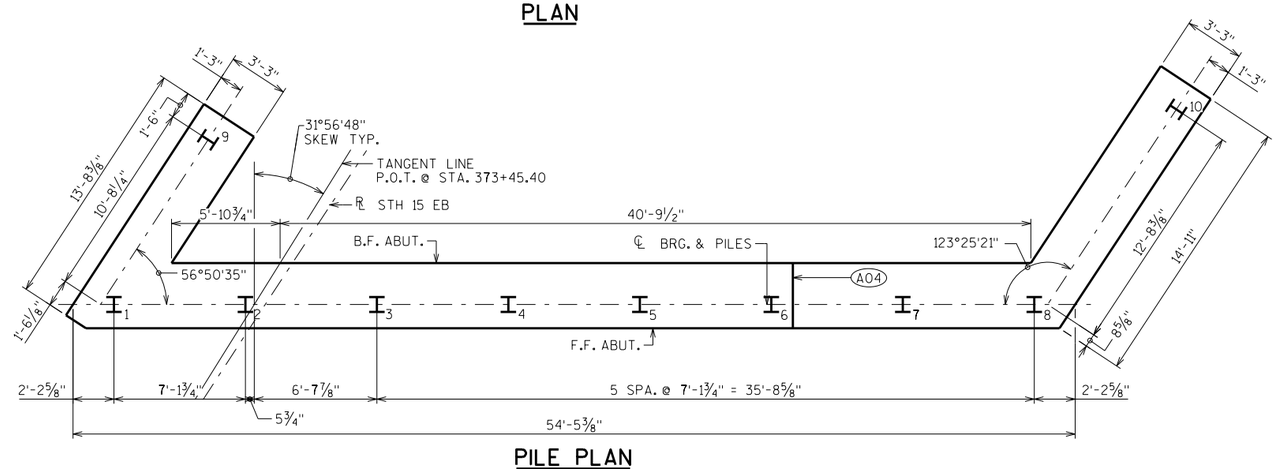
STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING PADS. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".



SECTION THRU BODY

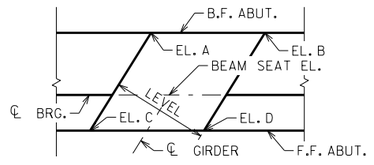


PLAN



PILE PLAN

SLOPED BEAM SEAT



BEAM SEAT ELEVATIONS

LOCATION	EL. A	EL. B	EL. C	EL. D
GIRDER 1	0.05	0.11	-0.08	-0.01
GIRDER 2	0.05	0.11	-0.08	-0.01
GIRDER 3	0.05	0.12	-0.08	-0.01
GIRDER 4	0.05	0.12	-0.09	-0.01
GIRDER 5	0.05	0.13	-0.09	-0.02
GIRDER 6	0.06	0.14	-0.10	-0.02
GIRDER 7	0.06	0.14	-0.10	-0.02

(A04) VERT. CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 X 8. 3/4" "V" GROOVE @ THE FRONT FACE AND 18" RMW @ BACKFACE. FOR OPTIONAL DETAILS SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.

(A07) SUPPORT ABUTMENT ON HP 12 X 53 STEEL PILING, ESTIMATED 30'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE. PILE POINTS REQUIRED.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED ORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

⚠ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER AND EXPANDED POLYSTYRENE WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1"8" BELOW SURFACE OF CONCRETE).

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STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

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EAST ABUTMENT

SHEET 7

303

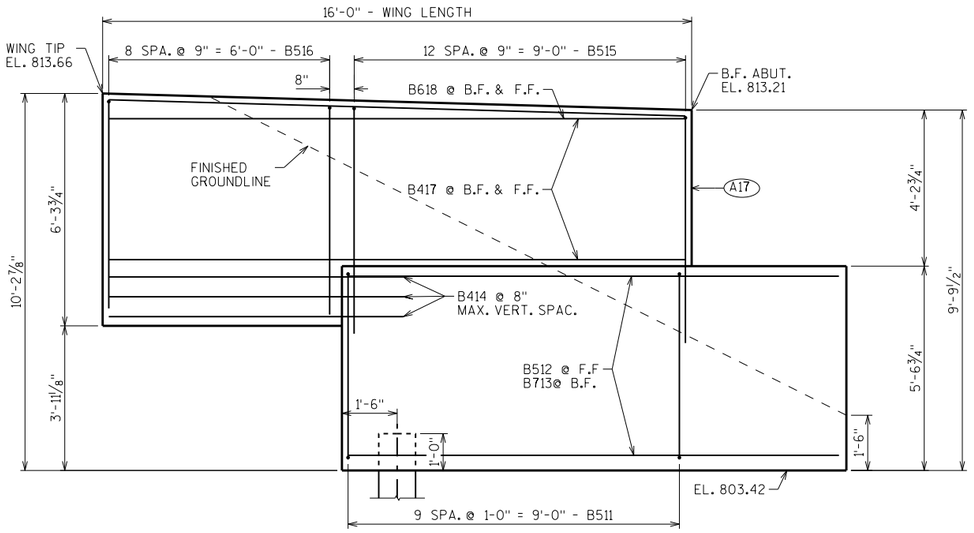
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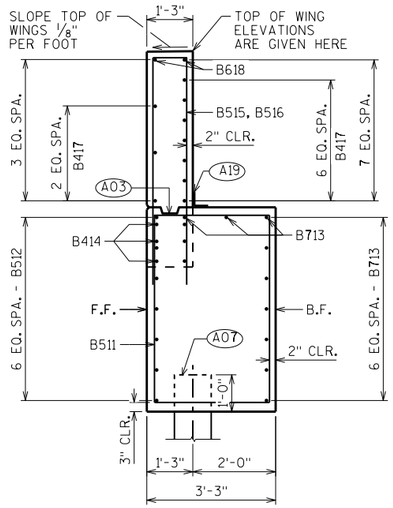
STATE PROJECT NUMBER

1146-75-71



SEE "AESTHETIC DETAILS" SHEET FOR RUSTICATIONS

WING 3 ELEVATION

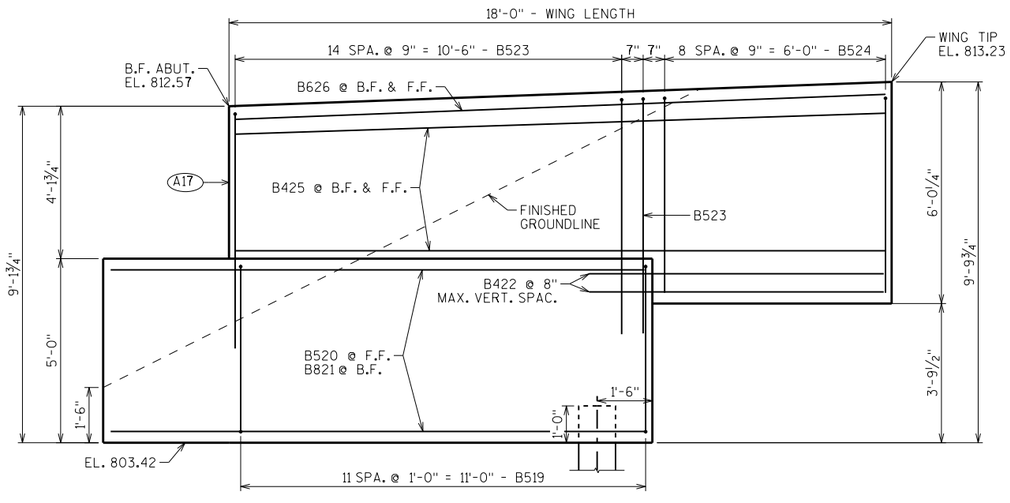


SECTION THRU WING 3

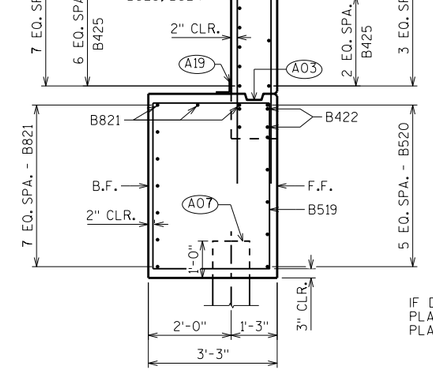
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

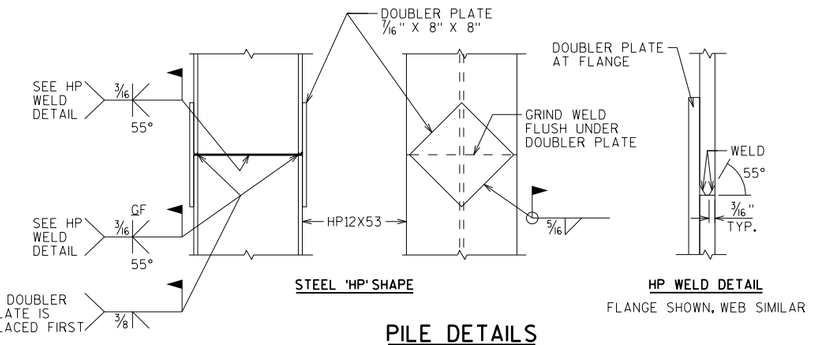
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		58	15'-8"	X		BODY - VERTICAL - STIRRUPS
B502		24	9'-9"	X		BODY - VERTICAL - AT THE ENDS
B403		8	28'-0"	X		BODY - 1 PER PILE BODY - VERT
B404		16	2'-3"			BODY - 2 PER PILE BODY - VERT
B605		29	28'-7"			BODY - F.F. AND B.F. - HORZ
B906		14	19'-3"	X		BODY - B.F. HORIZONTAL
B407		4	15'-4"			BODY - SOUTH SIDE ONLY - HORZ
B508		16	6'-1"	X		BODY - SOUTH SIDE ONLY - VERT
B409		24	4'-3"	X		BODY - B/W BEAM SEATS - VERT
B410		12	5'-5"			BODY - B/W BEAM SEATS - HORZ
B511	X	10	16'-6"	X		WING 3 - VERTICAL - STIRRUPS
B512	X	7	13'-4"			WING 3 - F.F. - HORIZONTAL
B713	X	9	10'-10"			WING 3 - B.F. - HORIZONTAL
B414	X	6	7'-10"			WING 3 - HORIZONTAL
B515	X	13	13'-4"	X		WING 3 - VERTICAL
B516	X	9	12'-2"	X		WING 3 - VERTICAL
B417	X	10	15'-8"			WING 3 - HORIZONTAL
B618	X	2	15'-8"			WING 3 - HORIZONTAL
B519	X	12	15'-6"	X		WING 4 - VERTICAL - STIRRUPS
B520	X	6	14'-6"			WING 4 - F.F. - HORIZONTAL
B821	X	9	16'-4"			WING 4 - B.F. - HORIZONTAL
B422	X	4	7'-10"			WING 4 - HORIZONTAL
B523	X	16	13'-6"	X		WING 4 - VERTICAL
B524	X	9	11'-4"	X		WING 4 - VERTICAL
B425	X	10	17'-8"			WING 4 - HORIZONTAL
B626	X	2	17'-8"			WING 4 - HORIZONTAL



WING 4 ELEVATION



SECTION THRU WING 4



STEEL 'HP' SHAPE

HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

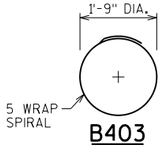
PILE DETAILS

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

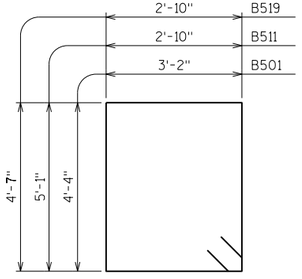
(A07) SUPPORT ABUTMENT ON HP 12 x 53 STEEL PILING, ESTIMATED 30'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

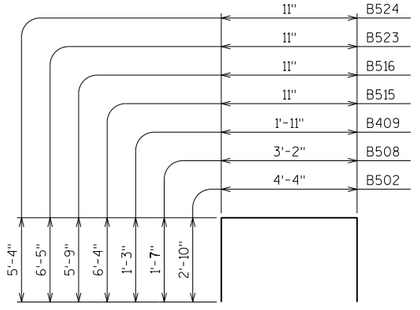
(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



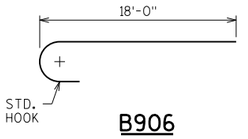
B403



B501, B511, B519



B502, B508, B409, B515
B516, B523, B524



B906

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

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EAST ABUTMENT DETAILS

SHEET 8

304

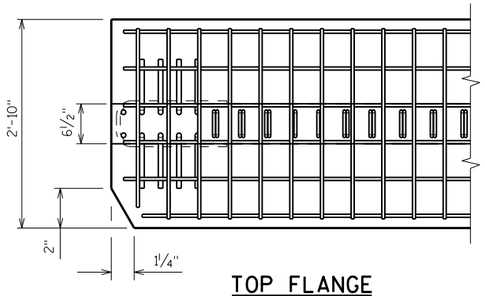
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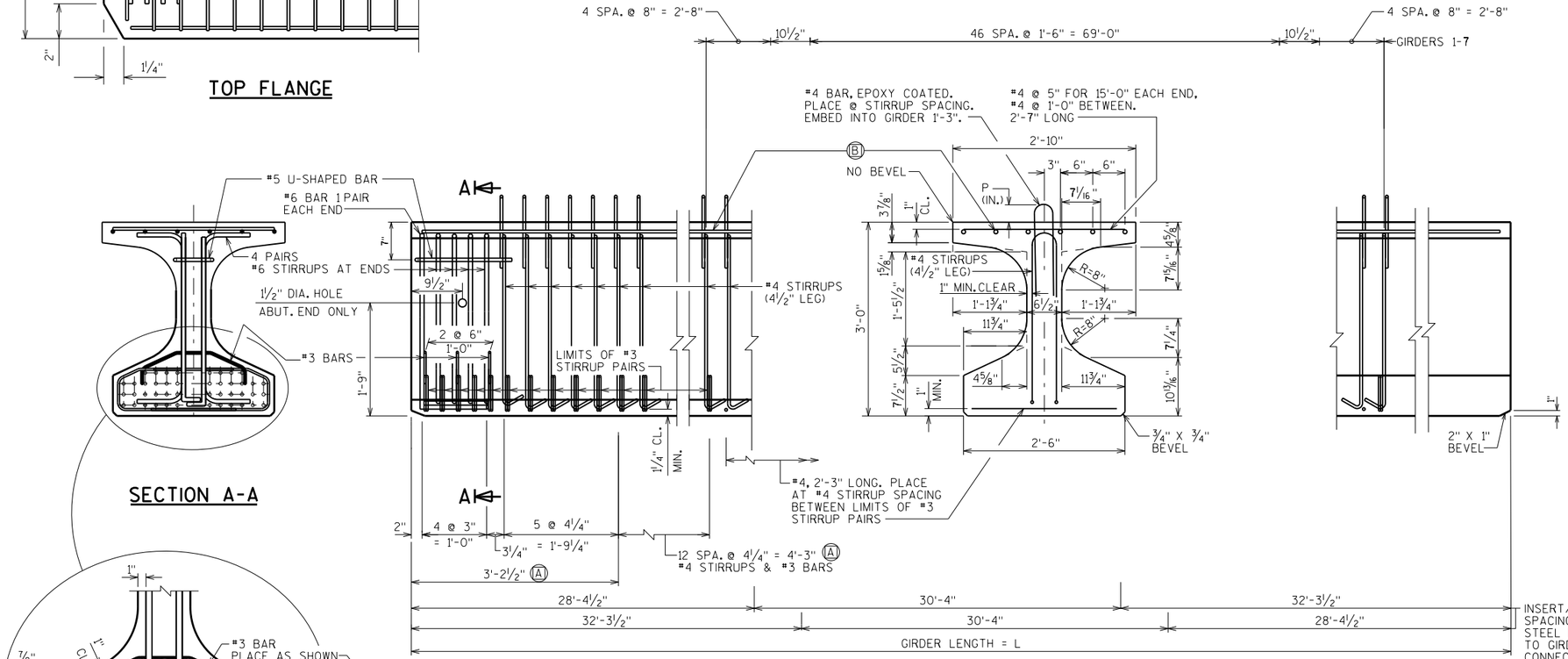
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STATE PROJECT NUMBER

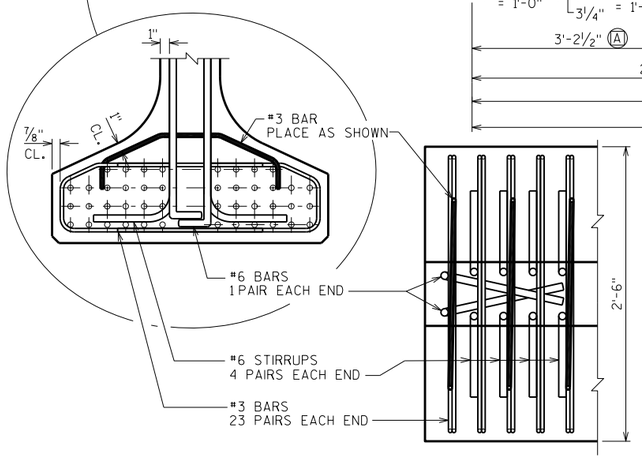
1146-75-71



TOP FLANGE



SECTION A-A

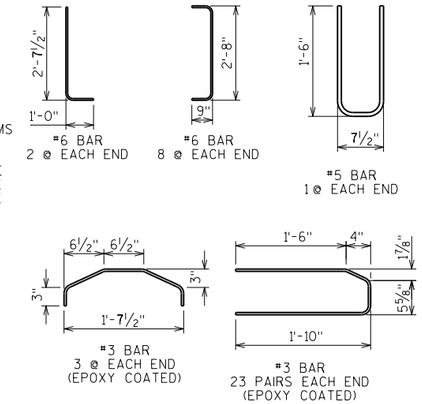


BOTTOM FLANGE

SIDE VIEW & TYPICAL SECTION IN SPAN

(A) DETAIL TYP. AT EACH END

(B) 6 #4 BARS, FULL LENGTH, MIN. LAP = 1'-11"



NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER OR EPOXY TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS. SEE SECT. 503.3.3 OF STANDARD SPECIFICATIONS FOR GUIDANCE.

STRANDS SHALL BE FLUSH WITH END OF GIRDER. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, GRADE 2, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE (0.6" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.

✳ MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.) 1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	CONC. STRGTH. f'c (p.s.i.)	"P" 1ST 1/3 OF GIRDER	"P" MID 1/3 OF GIRDER	"P" END 1/3 OF GIRDER	DIA. OF STRAND (IN.)	DRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (P.S.I.) ✳	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	UNDRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (P.S.I.) ✳
1	1	91.00	0.6	1.1	1.6	1.8	1.9	1.8	1.6	1.1	0.6	8000	9	8	9	0.6	32	6400	31	11.5	14.5	5		
1	2-6	91.00	0.6	1.2	1.6	1.9	2.0	1.9	1.6	1.2	0.6	8000	9	8	9	0.6	32	6400	31	11.5	14.5	5		
1	7	91.00	0.6	1.1	1.5	1.8	1.9	1.8	1.5	1.1	0.6	8000	9	8	9	0.6	32	6400	31	11.5	14.5	5		

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

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36W" PRESTRESSED GIRDER DETAILS 1

SHEET 9

305

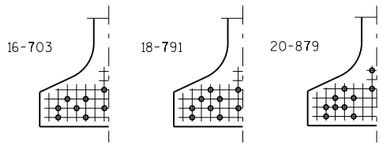
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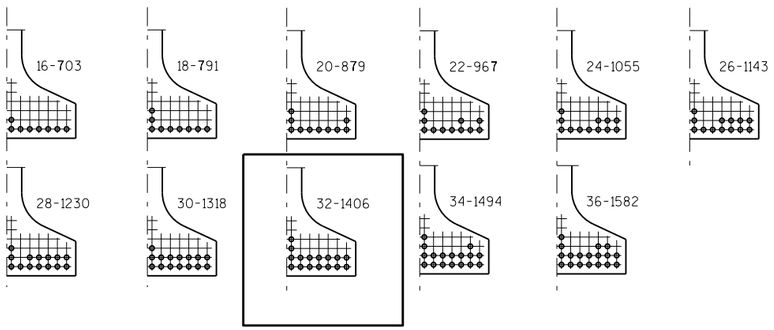
STATE PROJECT NUMBER

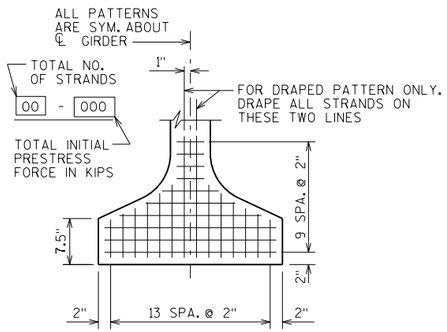
1146-75-71



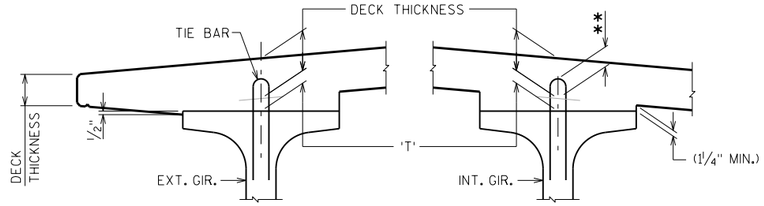
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6"Φ STRANDS





TYP. STRAND PATTERN



DECK HAUNCH DETAIL

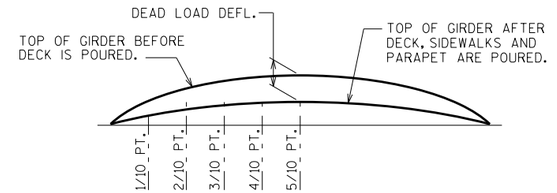
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- DECK THICKNESS
= HAUNCH HEIGHT 'T'

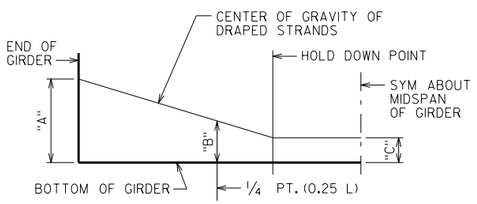
NOTE: AN AVERAGE HAUNCH ('T') OF 3.9" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".



DEAD LOAD DEFLECTION DIAGRAM

ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6"Φ STRANDS



DRAPED STRAND PROFILE

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

SPAN	CAMBER (IN.) *
1	3.63

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

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STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY SEW | PLANS CK'D. MSC

36W" PRESTRESSED GIRDER DETAILS 2

SHEET 10

306

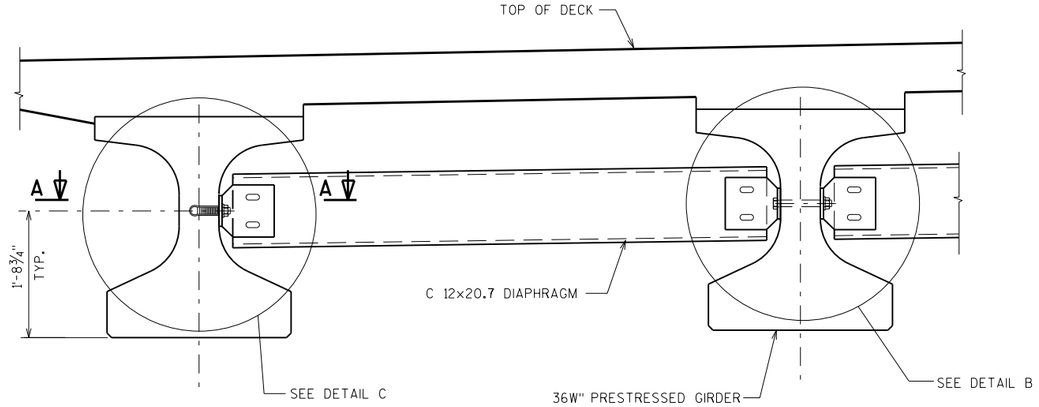
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SCALE = 1.00

STATE PROJECT NUMBER

1146-75-71



EXTERIOR GIRDER

INTERIOR GIRDER

PART TRANSVERSE SECTION AT DIAPHRAGM

NOTES

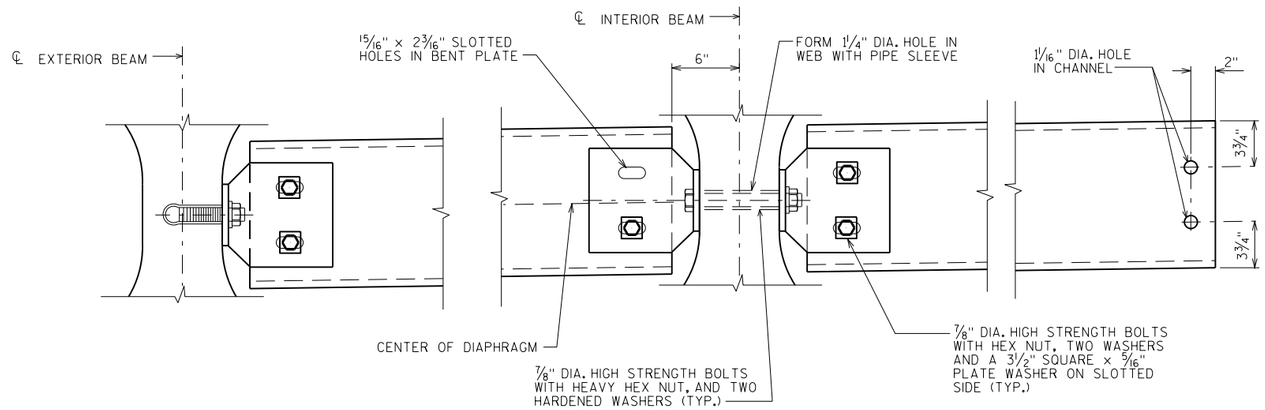
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-44-291", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

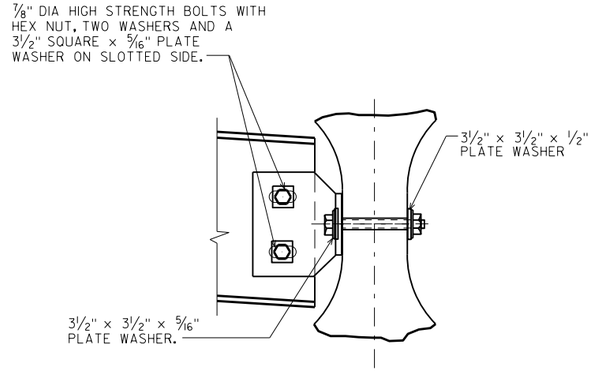
ALL DIAPHRAGM MATERIAL INCLUDING BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS ¼ TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.

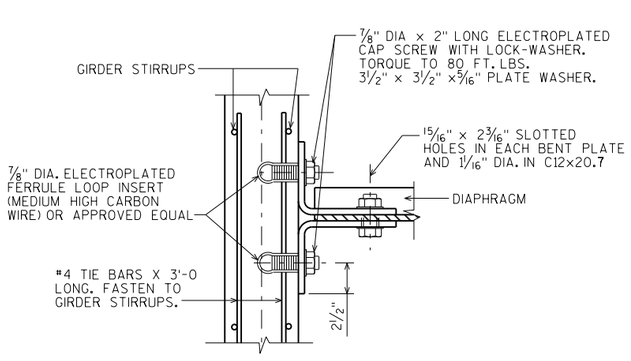


DETAIL C

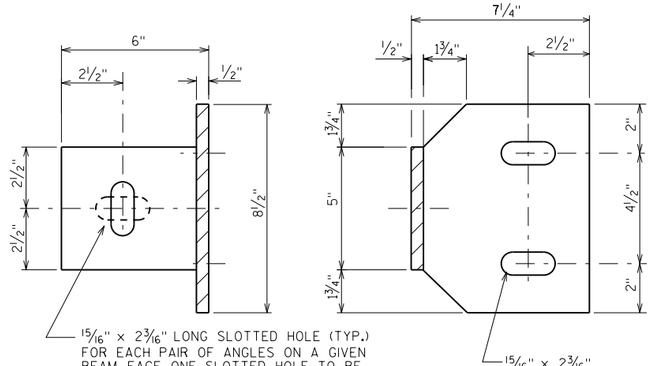
DETAIL B



SECTION AT INTERIOR GIRDERS THRU DIAPHRAGM FOR SKEW ANGLES > 10°

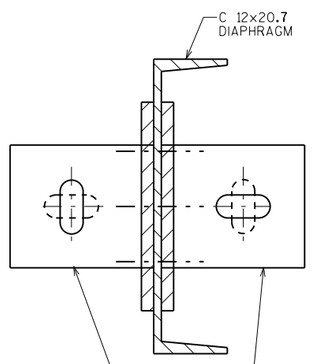


SECTION A-A
(FOR EXTERIOR ATTACHMENT)



BEAM FACE

DIAPHRAGM FACE



ATTACHMENT TO CHANNEL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY SEW | PLANS CK'D. MSC

STEEL DIAPHRAGM

SHEET 11

307

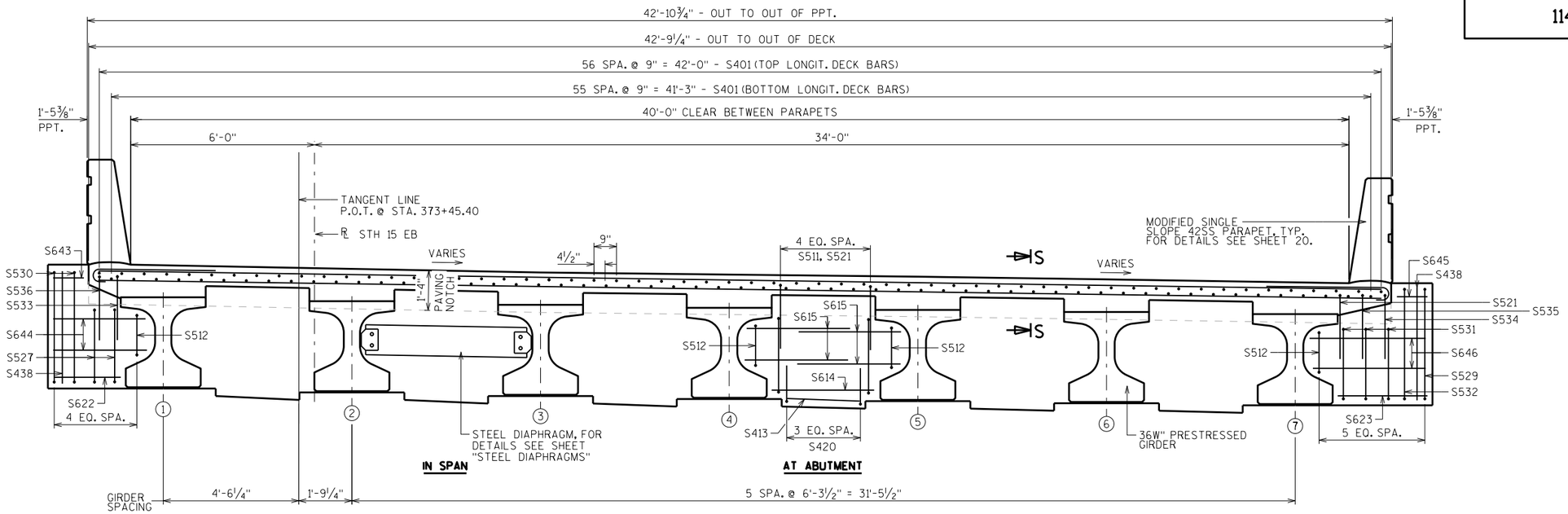
SCALE = 1.00

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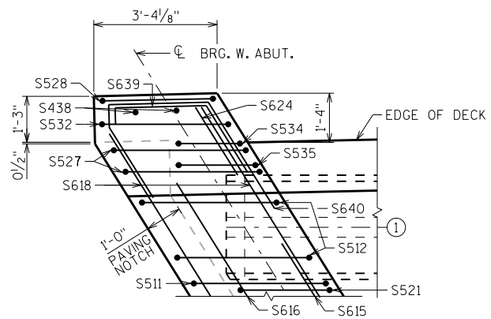
STATE PROJECT NUMBER

1146-75-71



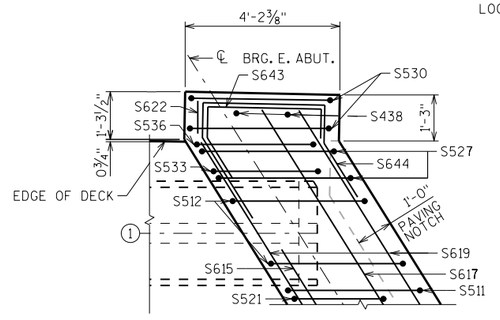
CROSS SECTION THRU ROADWAY

LOOKING EAST



PLAN - ABUTMENT DIAPHRAGM

WING 2 SHOWN

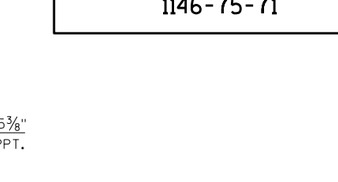


PLAN - ABUTMENT DIAPHRAGM

WING 3 SHOWN

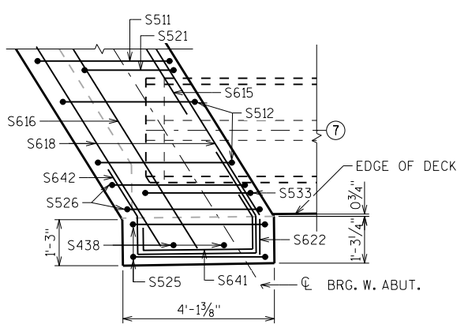
DECK STEEL DETAIL

(TYP. AT BOTH EDGES)



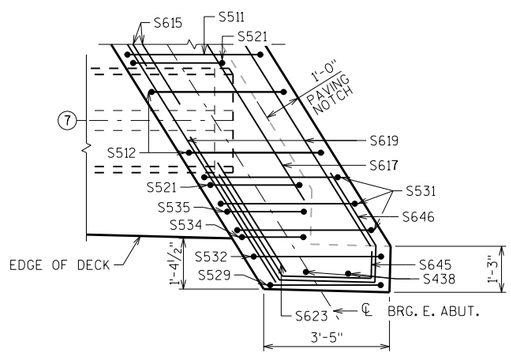
SECTION S-S

◯ INDICATES GIRDER NUMBER



PLAN - ABUTMENT DIAPHRAGM

WING 1 SHOWN



PLAN - ABUTMENT DIAPHRAGM

WING 4 SHOWN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

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SUPERSTRUCTURE CROSS SECTION

SHEET 12

308

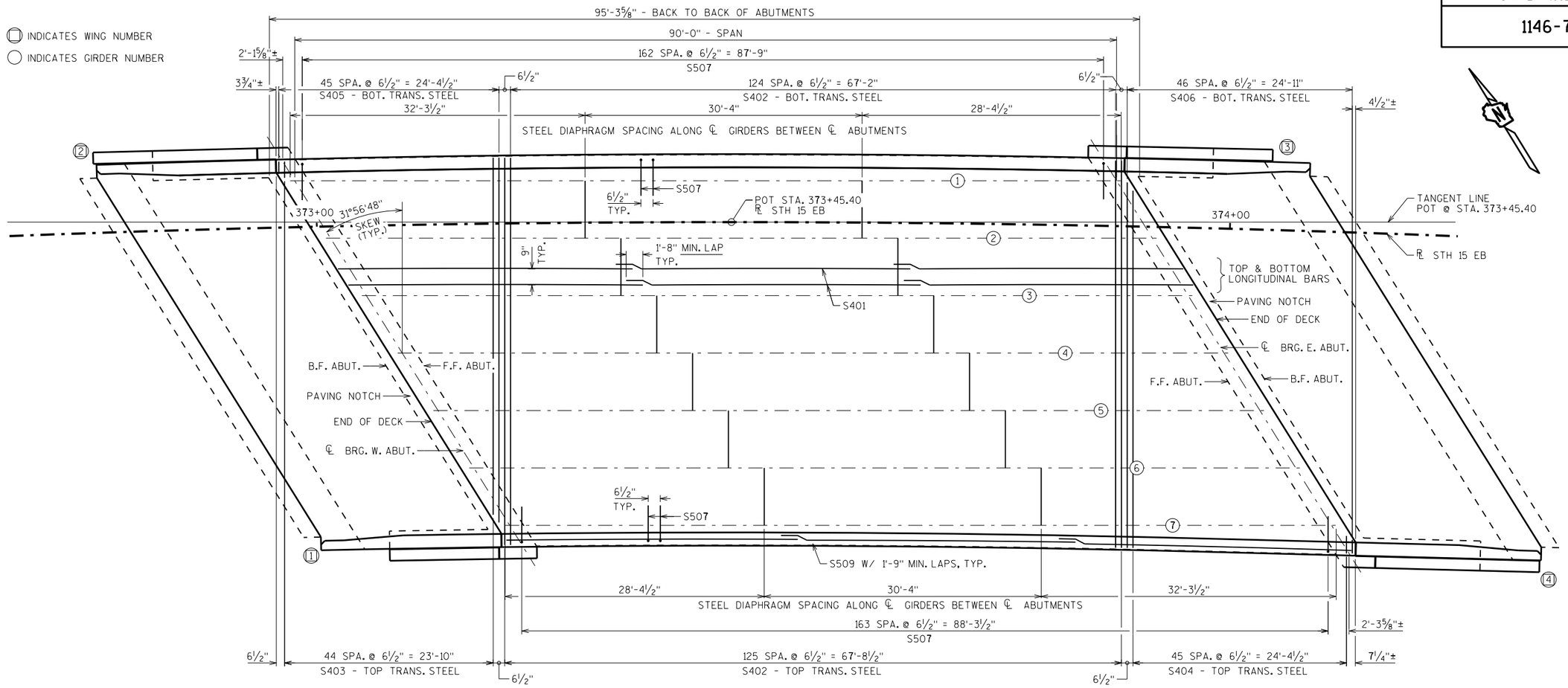
SCALE = 2.00

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STATE PROJECT NUMBER

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PLAN

(MEASUREMENTS TAKEN NORMAL TO TANGENT LINE)

TOP OF DECK ELEVATIONS

EOD = EDGE OF DECK

	℄ BRG. W. ABUT	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	℄ BRG. E. ABUT.
NORTH EOD	810.49	810.76	811.02	811.29	811.55	811.81	812.06	812.32	812.57	812.83	813.08
℄ GIRDER 1	810.48	810.73	811.00	811.26	811.52	811.77	812.03	812.30	812.56	812.82	813.09
℞ 'EB'	810.29	810.56	810.83	811.10	811.37	811.64	811.91	812.18	812.45	812.72	812.99
℄ GIRDER 2	810.24	810.51	810.77	811.03	811.31	811.58	811.85	812.13	812.41	812.69	812.97
℄ GIRDER 3	810.01	810.28	810.54	810.82	811.11	811.40	811.69	811.98	812.28	812.57	812.87
℄ GIRDER 4	809.79	810.05	810.32	810.62	810.93	811.23	811.54	811.85	812.16	812.47	812.78
℄ GIRDER 5	809.56	809.82	810.12	810.44	810.76	811.08	811.40	811.72	812.05	812.38	812.70
℄ GIRDER 6	809.33	809.60	809.93	810.26	810.60	810.94	811.28	811.62	811.95	812.29	812.62
℄ GIRDER 7	809.11	809.41	809.76	810.11	810.46	810.81	811.17	811.52	811.85	812.19	812.52
SOUTH EOD	809.10	809.42	809.77	810.13	810.48	810.84	811.19	811.54	811.87	812.20	812.52

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY SEW | PLANS CK'D. MSC

SUPERSTRUCTURE

SHEET 13

309

SCALE = 6.00

8

8

STATE PROJECT NUMBER

1146-75-71

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S401	X	339	32'-0"			DECK - TOP & BOT. HORIZ. - LONGIT.
S402	X	251	42'-5"			DECK - TOP & BOT. HORIZ. - TRANS.
S403	X	45	21'-1"		⚠	DECK - TOP HORIZ. - LONGIT.
S404	X	46	21'-2"		⚠	DECK - TOP HORIZ. - TRANS.
S405	X	46	21'-1"		⚠	DECK - BOT. HORIZ - TRANS.
S406	X	47	21'-2"		⚠	DECK - BOT. HORIZ. - TRANS.
S507	X	327	5'-3"	X		DECK - TOP - TRANS. - HOOK
S508	X	279	4'-5"	X		PARAPET/DECK - VERT. - TRANS.
S509	X	36	32'-3"			PARAPET - HORIZ. - LONGIT.
S510	X	279	6'-8"	X		PARAPET - VERT. - TRANS.
S511	X	60	13'-0"	X		ABUT. DIAPHRAGM - STIRRUP - BTWN. GIRD
S512	X	28	11'-0"	X		ABUT. DIAPHRAGM - STIRRUP - AT GIRDERS
S513	X	24	2'-10"			ABUT. DIAPHRAGM - BTWN. GIRDERS
S614	X	12	4'-0"			ABUT. DIAPHRAGM - BTWN. GIRDERS
S615	X	48	4'-2"			ABUT. DIAPHRAGM - BTWN. GIRDERS
S616	X	1	50'-0"			ABUT. DIAPHRAGM AT W. PAVING NOTCH
S617	X	1	51'-4"			ABUT. DIAPHRAGM AT E. PAVING NOTCH
S618	X	4	51'-0"			ABUT. DIAPHRAGM AT W. ABUT.
S619	X	4	53'-0"			ABUT. DIAPHRAGM AT E. ABUT.
S420	X	48	3'-7"	X		ABUT. DIAPHRAGM - BTWN. GIRDERS
S521	X	61	7'-8"	X		ABUT. DIAPHRAGM - WING 4 & BTWN GIRDERS
S622	X	2	1'-0"			ABUT. DIAPHRAGM ENDS - WINGS 1& 3
S623	X	1	3'-6"			ABUT. DIAPHRAGM ENDS - WING 4 - HORZ
S624	X	1	2'-5"			ABUT. DIAPHRAGM ENDS - WING 2 - HORZ
S525	X	2	15'-8"	X		ABUT. DIAPHRAGM ENDS - WING 1 - VERT
S526	X	2	12'-10"	X		ABUT. DIAPHRAGM ENDS - WING 1 - VERT
S527	X	4	13'-0"	X		ABUT. DIAPHRAGM ENDS - WINGS 2 & 3
S528	X	1	14'-4"	X		ABUT. DIAPHRAGM ENDS - WING 2 - VERT
S529	X	1	14'-6"	X		ABUT. DIAPHRAGM ENDS - WING 4 - VER
S530	X	2	15'-10"	X		ABUT. DIAPHRAGM ENDS - WING 3 - VERT
S531	X	3	13'-0"	X		ABUT. DIAPHRAGM ENDS - WING 4 - VERT
S532	X	2	15'-4"	X		ABUT. DIAPHRAGM ENDS - WINGS 2 & 4
S533	X	2	8'-1"	X		ABUT. DIAPHRAGM ENDS - WINGS 1& 3
S534	X	2	6'-11"	X		ABUT. DIAPHRAGM ENDS - WINGS 2 & 4
S535	X	2	7'-4"	X		ABUT. DIAPHRAGM ENDS - WINGS 2 & 4
S536	X	1	8'-6"	X		ABUT. DIAPHRAGM ENDS - WING 3 - VERT
S537	X	14	6'-0"			ABUT. DIAPHRAGM THRU GIRDERS - HORZ
S438	X	8	3'-9"			ABUT. DIAPHRAGM ENDS - VERT
S639	X	1	4'-9"	X		ABUT. DIAPHRAGM ENDS - WING 2 - HORZ
S640	X	2	9'-2"	X		ABUT. DIAPHRAGM ENDS - WING 2 - HORZ
S641	X	1	5'-2"	X		ABUT. DIAPHRAGM ENDS - WING 1 - HORZ
S642	X	2	8'-11"	X		ABUT. DIAPHRAGM ENDS - WING 1 - HORZ
S643	X	1	5'-3"	X		ABUT. DIAPHRAGM ENDS - WING 3 - HORZ
S644	X	2	9'-9"	X		ABUT. DIAPHRAGM ENDS - WING 3 - HORZ
S645	X	1	5'-0"	X		ABUT. DIAPHRAGM ENDS - WING 4 - HORZ
S646	X	2	10'-5"	X		ABUT. DIAPHRAGM ENDS - WING 4 - HORZ
SS901		87	5'-0"	X		ABUT. DIAPH./APPROACH SLAB TIE

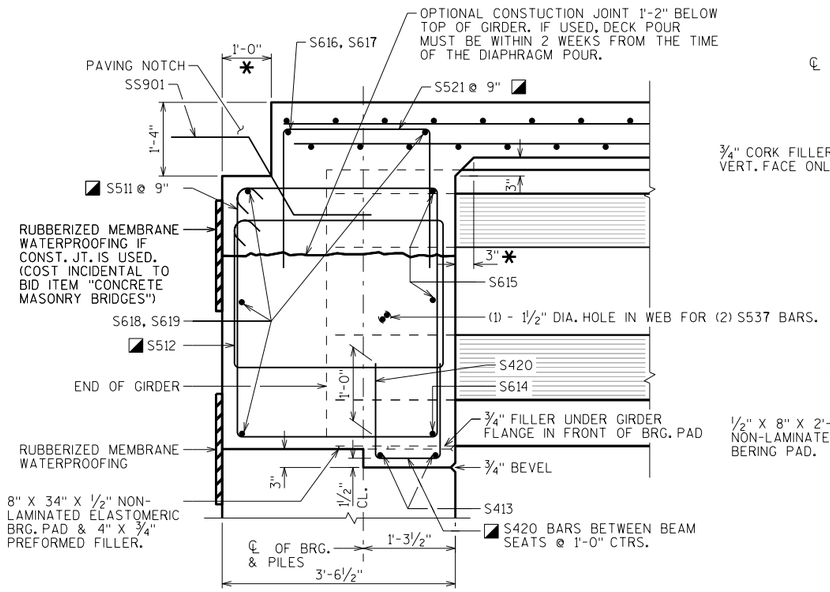
⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

STAINLESS STEEL REINFORCEMENT

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
S403	1 SERIES OF 45	1'-9" TO 40'-5"
S404	1 SERIES OF 46	1'-11" TO 40'-4"
S405	1 SERIES OF 46	1'-4" TO 40'-10"
S406	1 SERIES OF 47	1'-5" TO 40'-10"

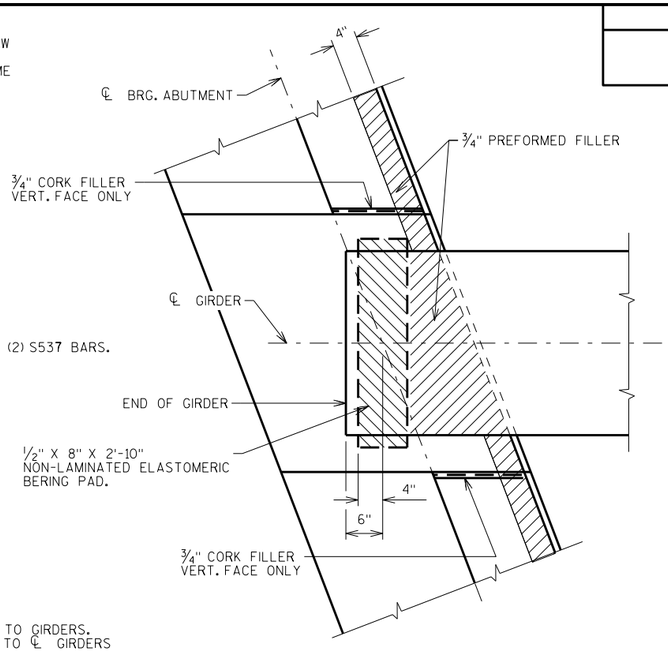
BUNDLE AND TAG EACH SERIES SEPARATELY.



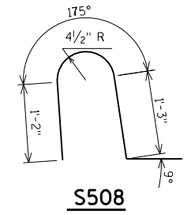
PART. LONGIT. SECTION

◪ BARS PLACED PARALLEL TO GIRDERS. SPACING PERPENDICULAR TO ℄ GIRDERS

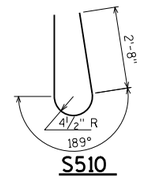
✱ DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS



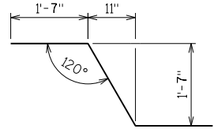
ABUTMENT BEARING PAD DETAIL



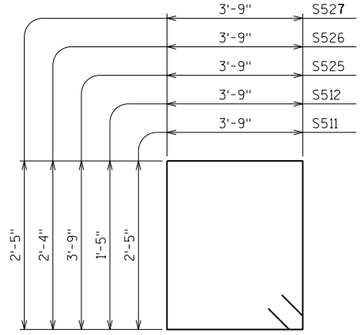
S508



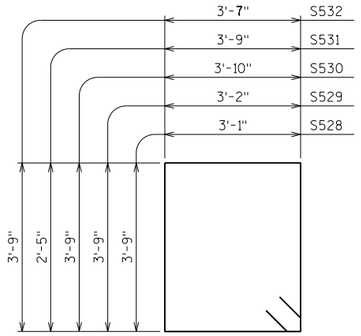
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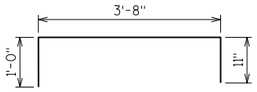
SS901



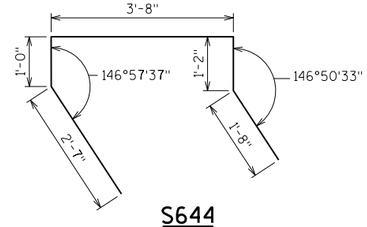
S511, S512, S525, S526, S527



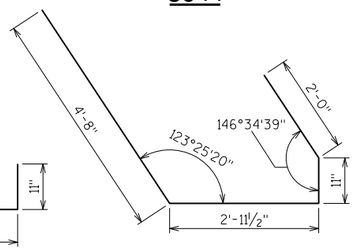
S528, S529, S530, S531, S532



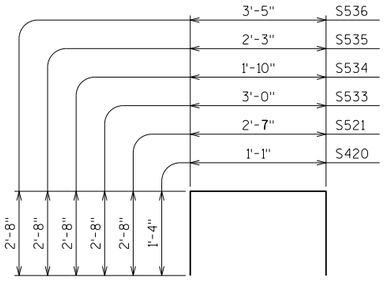
S643



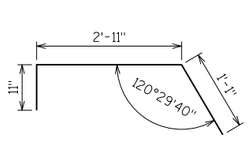
S644



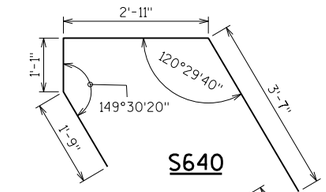
S646



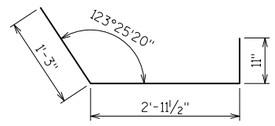
S420, S521, S533, S534, S535, S536



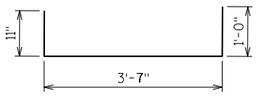
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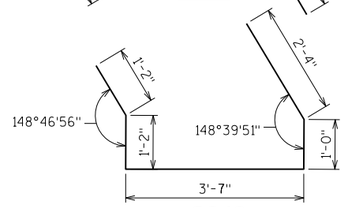
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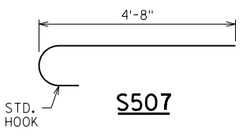
S645



S641



S642



S507

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY SEW | PLANS CK'D. MSC

SUPERSTRUCTURE BAR DETAILS

SHEET 14

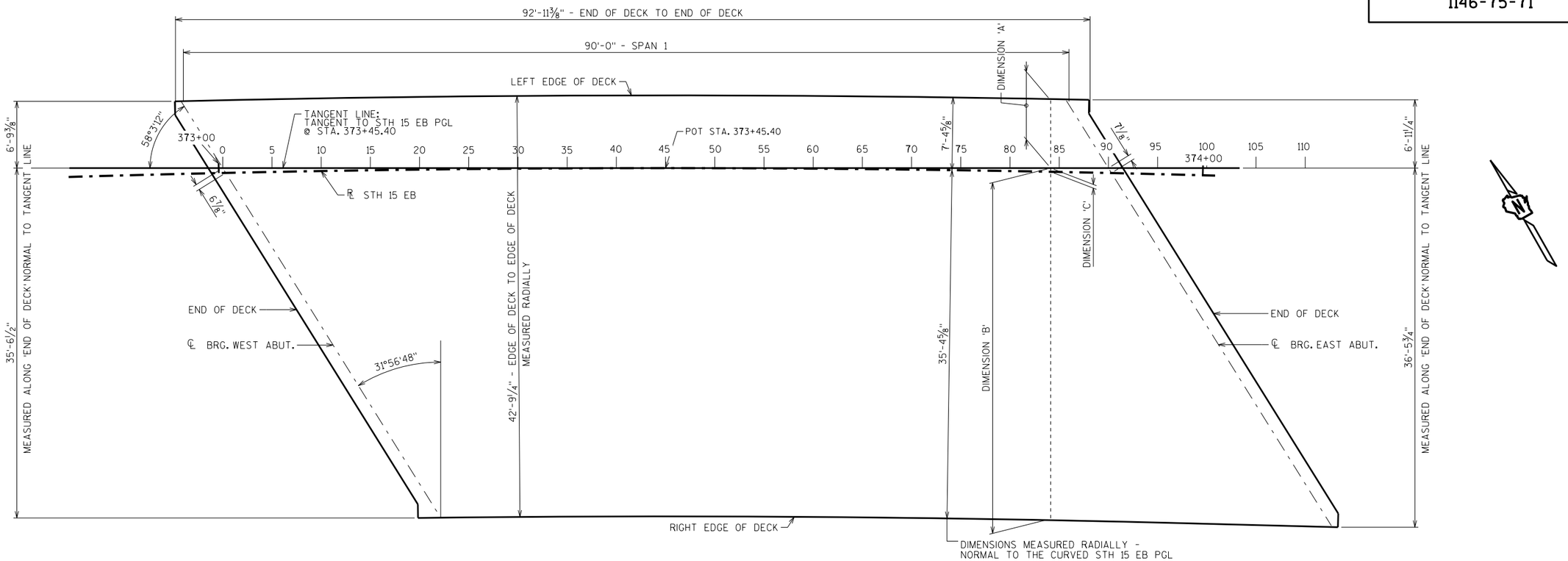
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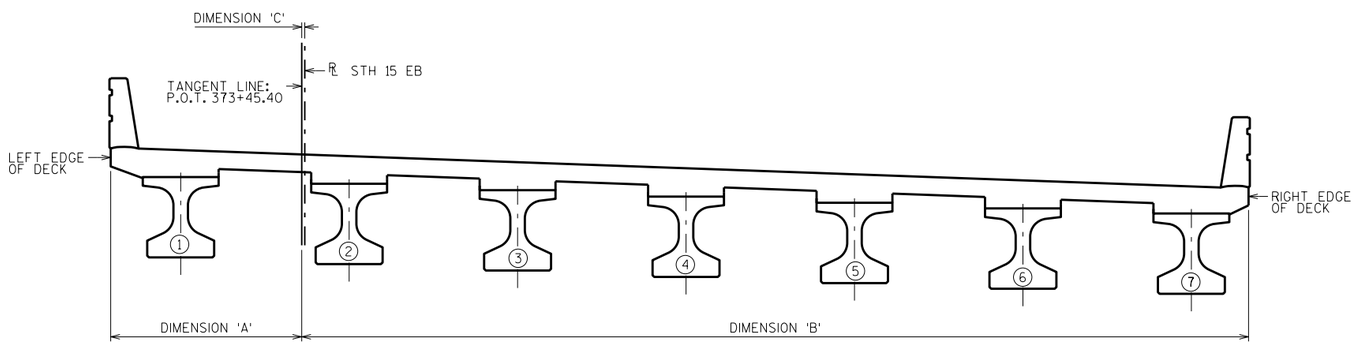
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8

STATE PROJECT NUMBER
1146-75-71



PLAN



CROSS SECTION THRU BRIDGE LOOKING EAST

(HORIZONTAL DIMENSIONS ARE MEASURED NORMAL TO THE TANGENT LINE.)

TABLE OF TAN. OFFSETS

DIST.	A	B	C
0	6'-10¾"	——	6"
5	6'-11⅞"	——	4¾"
10	7'-1"	——	3⅝"
15	7'-2"	——	2⅝"
20	7'-2¾"	35'-6½"	1⅞"
25	7'-3½"	35'-5⅞"	1⅛"
30	7'-4"	35'-5¼"	⅝"
35	7'-4⅜"	35'-4⅞"	¼"
40	7'-4½"	35'-4¾"	⅛"
45	7'-4⅝"	35'-4⅝"	0"
50	7'-4½"	35'-4¾"	⅛"
55	7'-4⅜"	35'-4⅞"	¼"
60	7'-4"	35'-5¼"	⅝"
65	7'-3½"	35'-5⅞"	1⅛"
70	7'-2¾"	35'-6½"	1⅞"
75	7'-2"	35'-7⅜"	2⅝"
80	7'-1"	35'-8¼"	3⅝"
85	6'-11⅞"	35'-9⅜"	4¾"
90	——	35'-10¾"	6"
95	——	36'-0⅛"	7⅜"
100	——	36'-1⅝"	8⅞"
105	——	36'-3¼"	10⅜"
110	——	36'-4¾"	1'-0"

NOTE: DIMENSION 'A' = DISTANCE BETWEEN THE 'TANGENT LINE' AND THE LEFT 'EDGE OF DECK'.

DIMENSION 'B' = DISTANCE BETWEEN THE 'TANGENT LINE' AND THE RIGHT 'EDGE OF DECK'.

DIMENSION 'C' = DISTACE BETWEEN THE 'TANGENT LINE' AND ℄ STH 15 EB.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY	PLANS CK'D.
SEW	MSC

DECK LAYOUT

SHEET 15

311

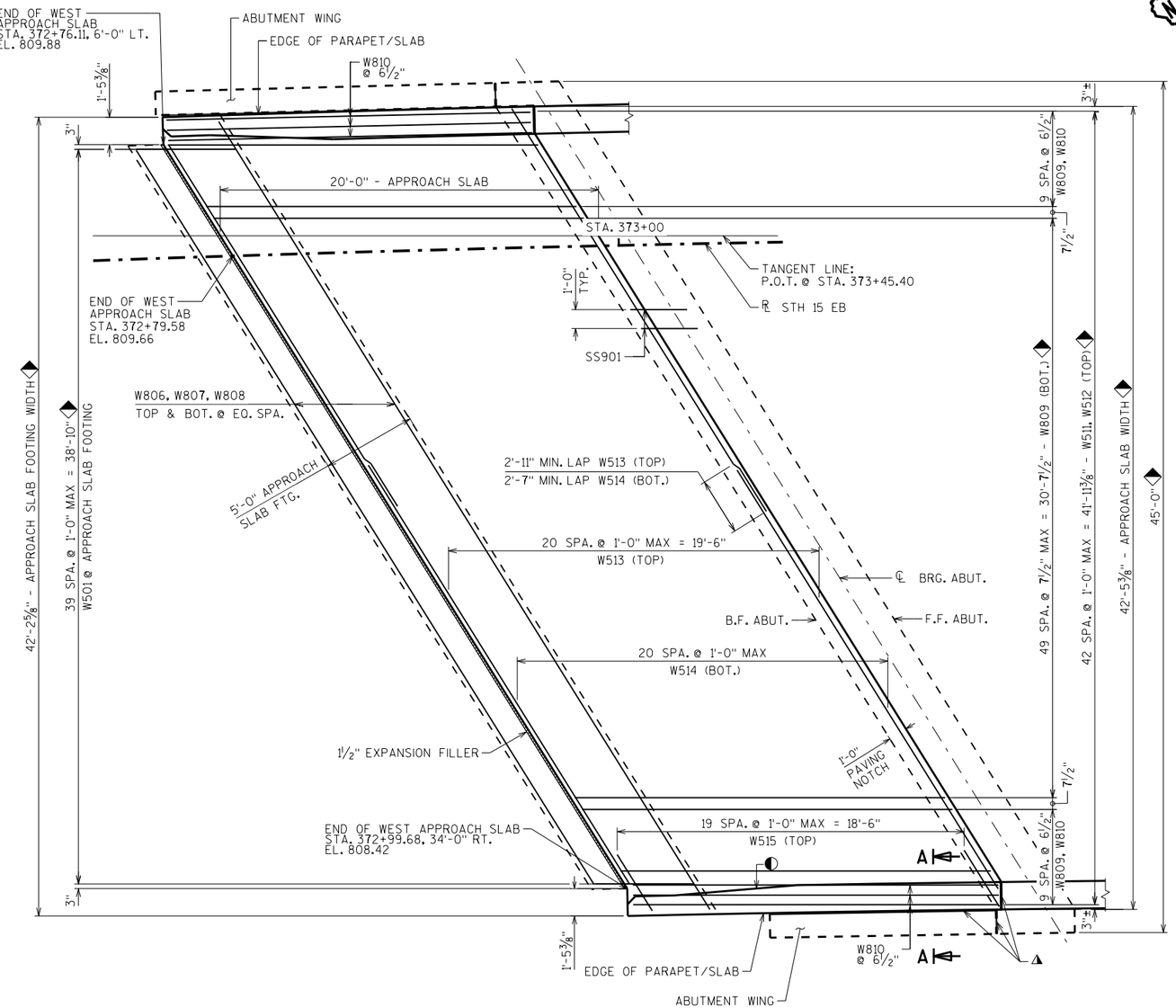
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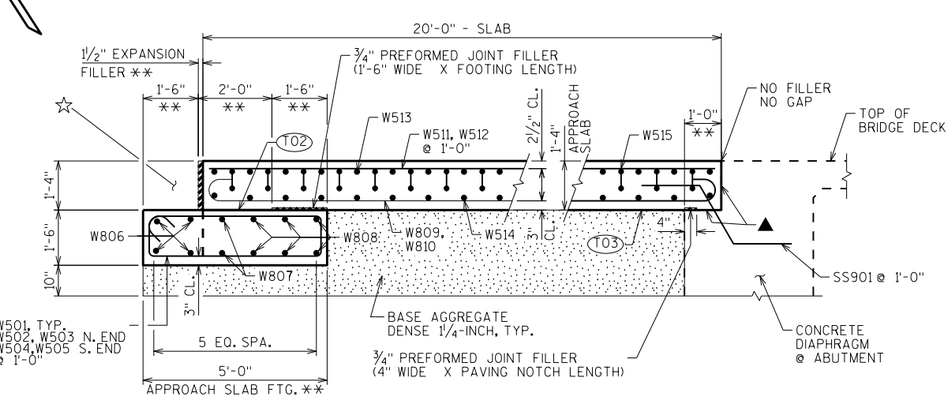
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STATE PROJECT NUMBER

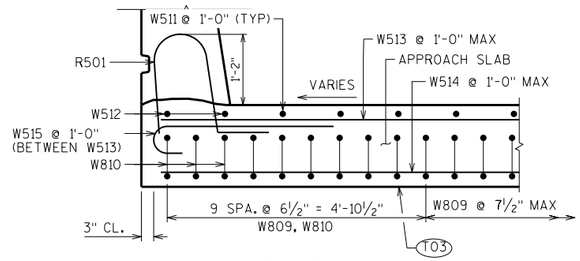
1146-75-71



PLAN



SECTION THRU APPROACH SLAB



SECTION A-A

(NORTH END SIMILAR)

◆ MEASURED NORMAL TO TANGENT

** MEASURED NORMAL TO ABUTMENT

☆ FOLLOW FDM 14-10-15 REQUIREMENTS FOR ROADWAY APPROACH PAVEMENT.

◭ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING, GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

▲ APPLY PROTECTIVE SURFACE TREATMENT TO PAVING NOTCH PRIOR TO POURING STRUCTURAL APPROACH SLAB.

◐ SEE PARAPET STANDARD DETAILS FOR LOCATION OF NAMEPLATE AND BENCH MARK WITH RESPECT TO THE END OF PARAPET

(T02) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF FOOTING.

(T03) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF SUBGRADE BENEATH SLAB.

DESIGN DATA

ALLOWABLE SOIL BEARING PRESSURE:	2,000 P.S.F.
CONCRETE STRENGTH f'c:	4,000 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60, fy:	60,000 P.S.I.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY SEW | PLANS CK'D. MSC

W. STRUCTURAL APPROACH SLAB

SHEET 16

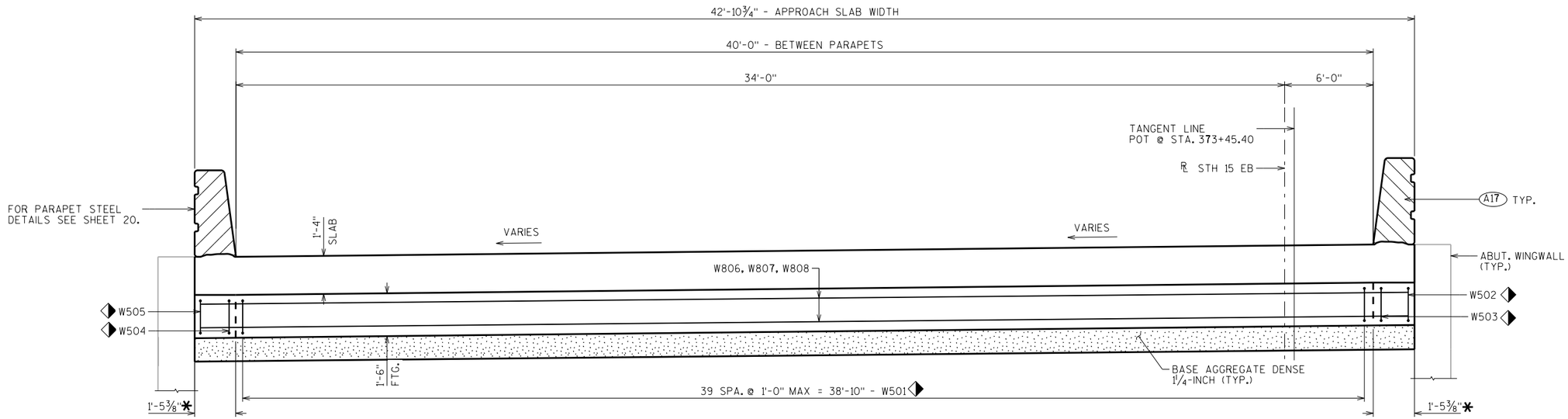
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SCALE = 3.50

8

8

STATE PROJECT NUMBER
1146-75-71



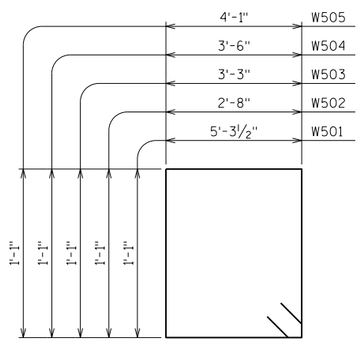
CROSS SECTION THRU ROADWAY - LOOKING WEST

(MEASUREMENTS TAKEN NORMAL TO ℄ STH 15 EB, SHOWING FOOTING STEEL ONLY)

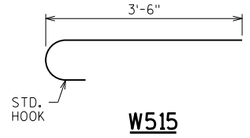
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

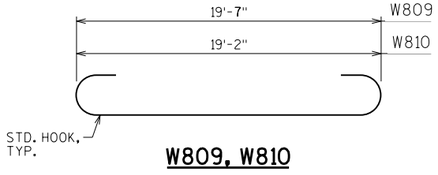
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
W501	X	40	13'-5"	X		APPROACH SLAB FTG. - STIRRUP
W502	X	1	8'-2"	X		APPROACH SLAB FTG. - STIR. NORTH END
W503	X	1	9'-4"	X		APPROACH SLAB FTG. - STIR. NORTH END
W504	X	1	9'-10"	X		APPROACH SLAB FTG. - STIR. SOUTH END
W505	X	1	11'-0"	X		APPROACH SLAB FTG. - STIR. SOUTH END
W806	X	4	45'-9"			APPROACH SLAB FTG. - TRANS.
W807	X	2	48'-0"			APPROACH SLAB FTG. - TRANS.
W808	X	6	49'-1"			APPROACH SLAB FTG. - TRANS.
W809	X	64	21'-5"	X		APPROACH SLAB - LONG. - BOT.
W810	X	6	21'-0"	X		APPROACH SLAB - LONG. - BOT.
W511	X	39	19'-7"			APPROACH SLAB - LONG. - TOP
W512	X	4	19'-2"			APPROACH SLAB - LONG. - TOP
W513	X	42	26'-3"			APPROACH SLAB - TRANS. - TOP
W514	X	42	26'-1"			APPROACH SLAB - TRANS. - BOT.
W515	X	40	4'-1"	X		APPROACH SLAB - TRANS. - TOP - WING



W501, W502, W503, W504, W505



W515



W809, W810

A17 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

* NOTCH FOR THRIE BEAM

◆ BARS PLACED PARALLEL TO TAN. LINE
SPACING PERPENDICULAR TO TAN. LINE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY SEW | PLANS CK'D. MSC

W. STRUCT. APP. SLAB DETAILS

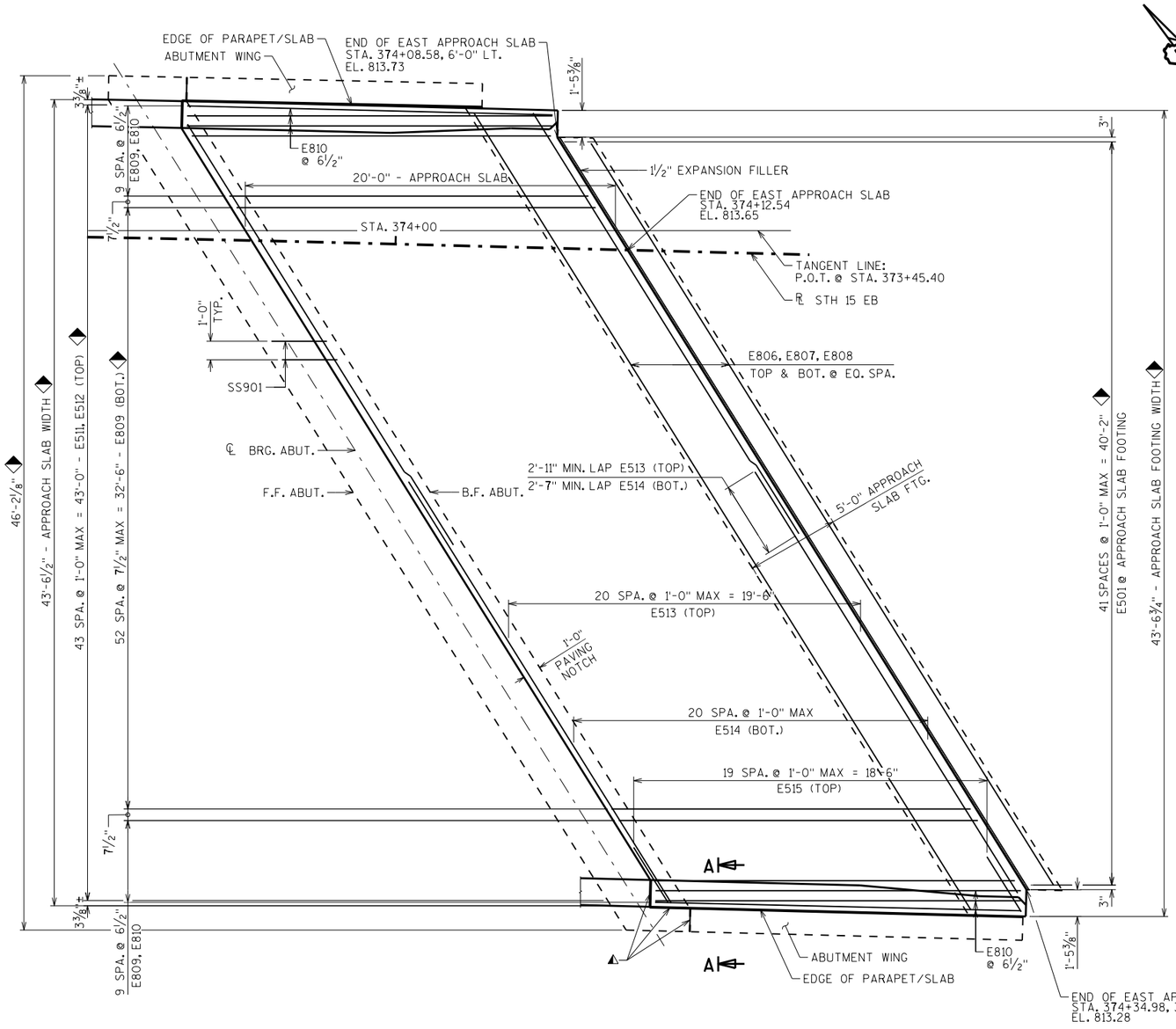
SHEET 17

313

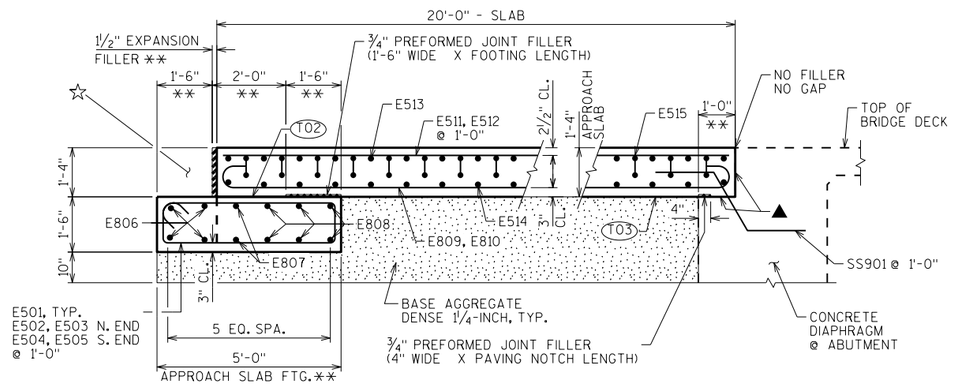
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STATE PROJECT NUMBER

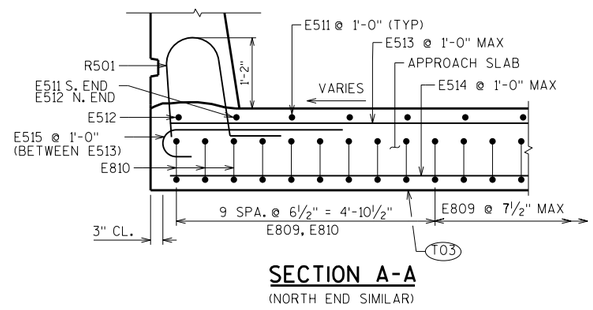
1146-75-71



PLAN



SECTION THRU APPROACH SLAB



SECTION A-A

(NORTH END SIMILAR)

◆ MEASURED NORMAL TO TANGENT LINE

** MEASURED NORMAL TO ABUTMENT

☆ FOLLOW FDM 14-10-15 REQUIREMENTS FOR ROADWAY APPROACH PAVEMENT.

◭ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING, GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

▲ APPLY PROTECTIVE SURFACE TREATMENT TO PAVING NOTCH PRIOR TO POURING STRUCTURAL APPROACH SLAB.

(T02) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF FOOTING.

(T03) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF SUBGRADE BENEATH SLAB.

DESIGN DATA

ALLOWABLE SOIL BEARING PRESSURE:	2,000 P.S.F.
CONCRETE STRENGTH f'c:	4,000 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60, fy:	60,000 P.S.I.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY SEW | PLANS CK'D. MSC

E. STRUCTURAL APPROACH SLAB

SHEET 18

314

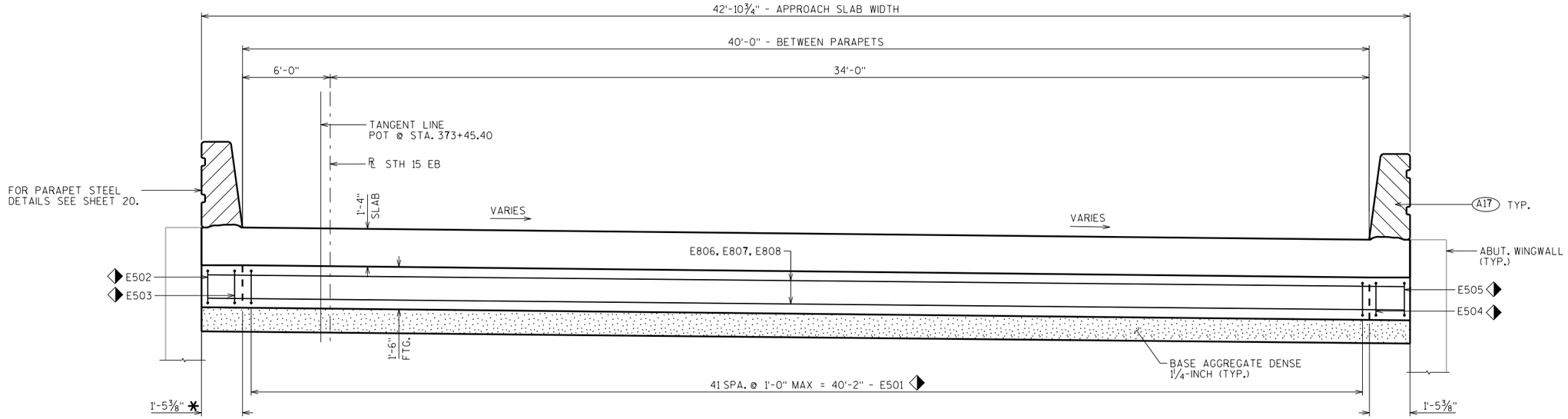
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8

STATE PROJECT NUMBER

1146-75-71



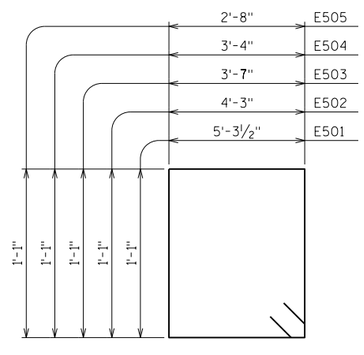
CROSS SECTION THRU ROADWAY - LOOKING EAST

(MEASUREMENTS TAKEN NORMAL TO ℄ STH 15 EB, SHOWING FOOTING STEEL ONLY)

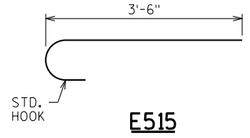
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

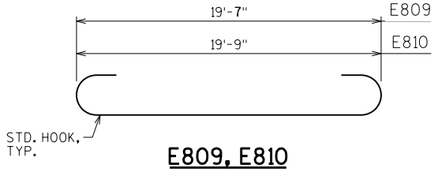
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
E501	X	42	13'-5"	X		APPROACH SLAB FTG. - STIRRUP
E502	X	1	11'-4"	X		APPROACH SLAB FTG. - STIR. NORTH END
E503	X	1	10'-0"	X		APPROACH SLAB FTG. - STIR. NORTH END
E504	X	1	9'-6"	X		APPROACH SLAB FTG. - STIR. SOUTH END
E505	X	1	8'-2"	X		APPROACH SLAB FTG. - STIR. SOUTH END
E806	X	4	47'-3"			APPROACH SLAB FTG. - TRANS.
E807	X	2	49'-10"			APPROACH SLAB FTG. - TRANS.
E808	X	6	50'-9"			APPROACH SLAB FTG. - TRANS.
E809	X	67	21'-5"	X		APPROACH SLAB - LONG. - BOT.
E810	X	6	21'-7"	X		APPROACH SLAB - LONG. - BOT.
E511	X	41	19'-7"			APPROACH SLAB - LONG. - TOP
E512	X	3	19'-9"			APPROACH SLAB - LONG. - TOP
E513	X	42	26'-11"			APPROACH SLAB - TRANS. - TOP
E514	X	42	26'-9"			APPROACH SLAB - TRANS. - BOT.
E515	X	40	4'-1"	X		APPROACH SLAB - TRANS. - TOP - WING



E501, E502, E503, E504, E505



E515



E809, E810

A17 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

* NOTCH FOR THRIE BEAM

◆ BARS PLACED PARALLEL TO TAN. LINE SPACING PERPENDICULAR TO TAN. LINE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY SEW | PLANS CK'D. MSC

E. STRUCT. APP. SLAB DETAILS

SHEET 19

315

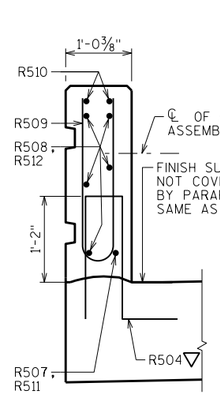
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8

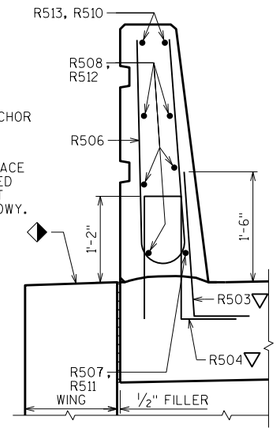
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STATE PROJECT NUMBER

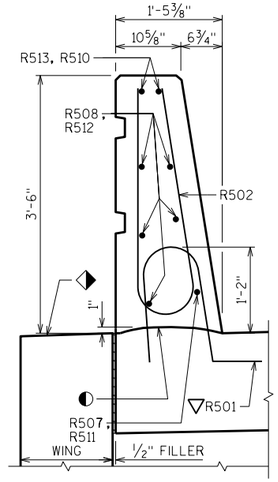
1146-75-71



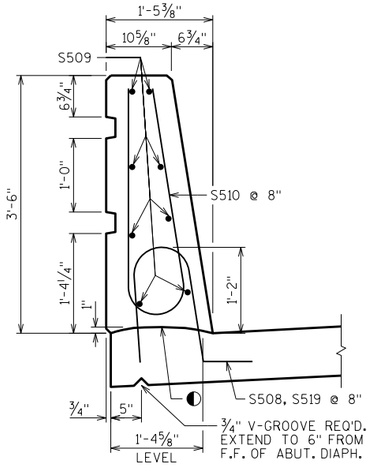
SECTION A-A



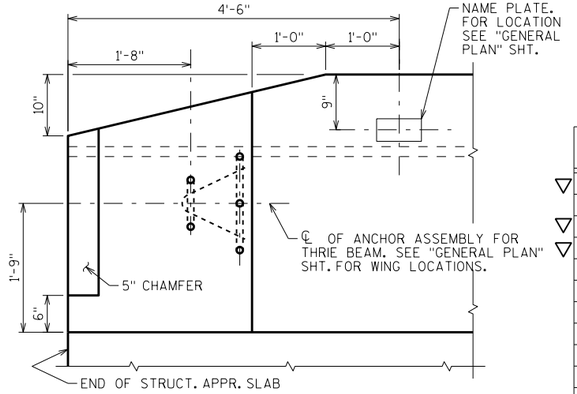
SECTION B-B



SECTION C-C



SECTION THRU PARAPET ON DECK



PARAPET END TREATMENT DETAIL

LOOKING AT INSIDE FACE OF PARAPET

BILL OF BARS

FOR STRUCTURAL APPROACH SLAB PARAPETS

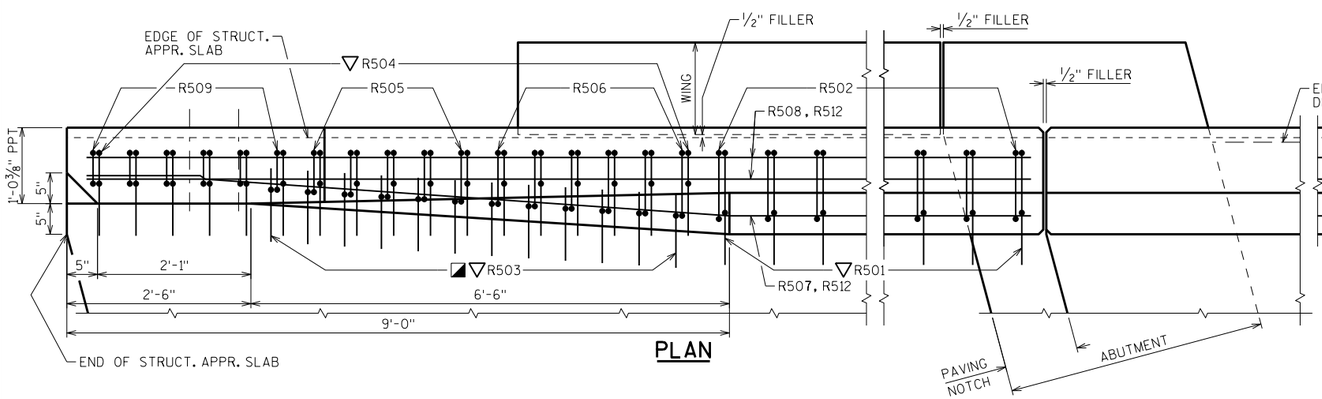
BAR MARK	COAT	W. APP. SLAB	E. APP. SLAB	LENGTH	BENT	BAR SERIES	LOCATION
▽ R501	X	34	34	4'-5"	X		PARAPET VERT.
R502	X	34	34	6'-8"	X		PARAPET VERT.
▽ R503	X	24	24	2'-9"	X		PARAPET VERT.
▽ R504	X	34	34	4'-4"	X		PARAPET VERT.
R505	X	10	10	6'-5"	X		PARAPET VERT.
R506	X	12	12	6'-6"	X		PARAPET VERT.
R507	X	2	—	19'-3"	X		PARAPET HORIZ.
R508	X	10	—	19'-3"			PARAPET HORIZ.
R509	X	12	12	5'-5"	X	◭	PARAPET VERT.
R510	X	4	—	19'-3"	X		PARAPET HORIZ.
R511	X	—	2	19'-10"	X		PARAPET HORIZ.
R512	X	—	10	19'-10"			PARAPET HORIZ.
R513	X	—	4	19'-10"	X		PARAPET HORIZ.

◭ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

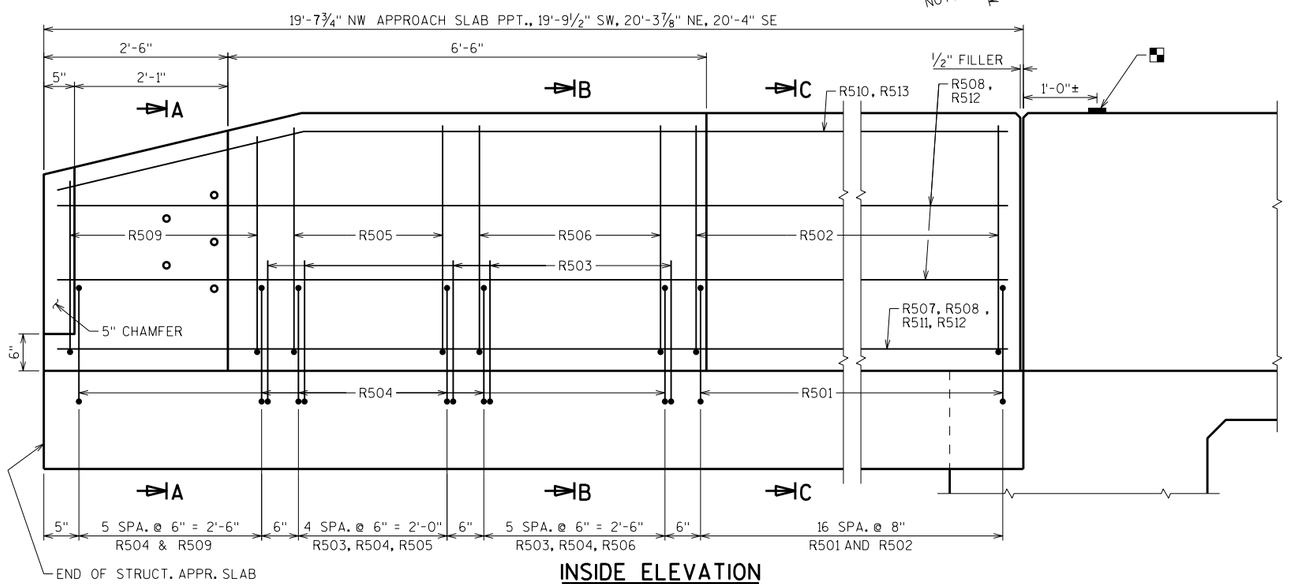
BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
R509	4 SERIES OF 6	4'-9" TO 6'-1"

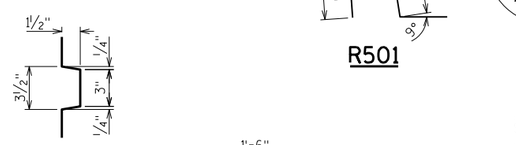
BUNDLE AND TAG EACH SERIES SEPARATELY.



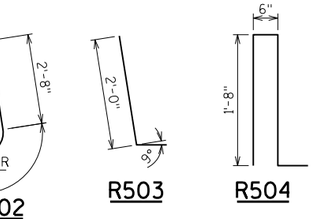
PLAN



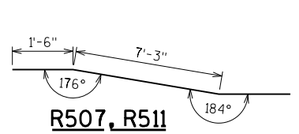
INSIDE ELEVATION



DETAIL A



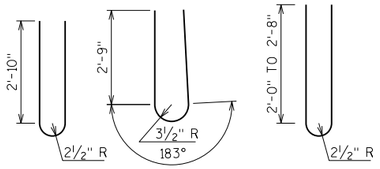
R501 R502 R503 R504



R507, R511



R510, R513



R505 R506 R509

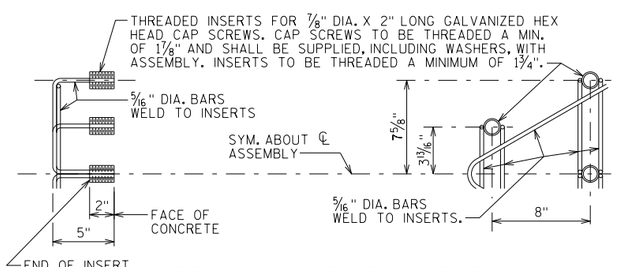
BENCH MARK CAP (WHEN SUPPLIED). AVOID PLACING A BENCH MARK CAP BELOW A RAIL OR FENCE SYSTEM THAT IS ATTACHED TO THE TOP OF THE PARAPET.

◐ CONST. JOINT - STRIKE OFF AS SHOWN

◆ SLOPE FOR DRAINAGE

◪ USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ R501, R503, AND R504 BARS TO BE TIED TO STRUCTURAL APPROACH SLAB STEEL BEFORE STRUCTURAL APPROACH SLAB IS POURED.



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY SEW | PLANS CK'D. MSC

MODIFIED SINGLE SLOPE PARAPET 42SS

SHEET 20

316

SCALE = 1.00

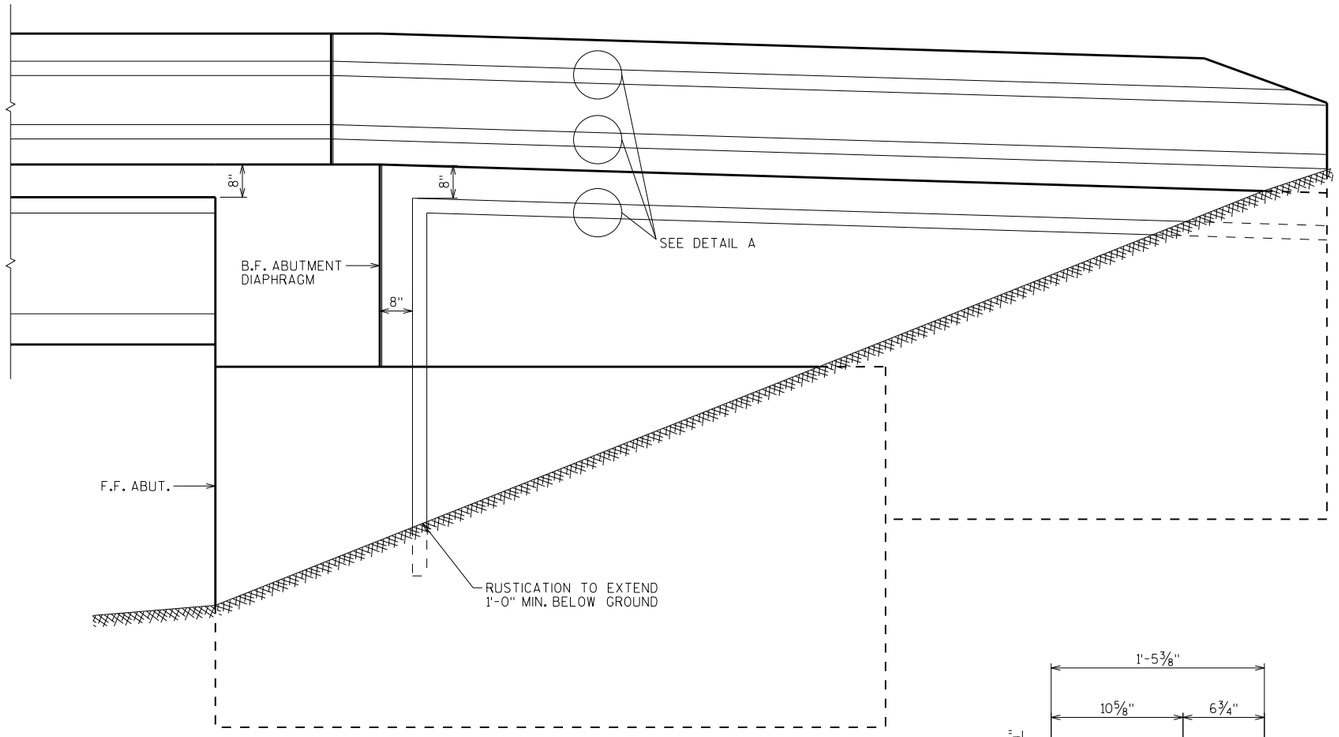
8

8

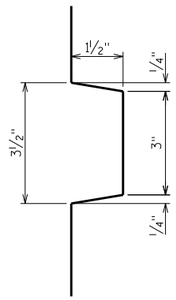
STATE PROJECT NUMBER

1146-75-71

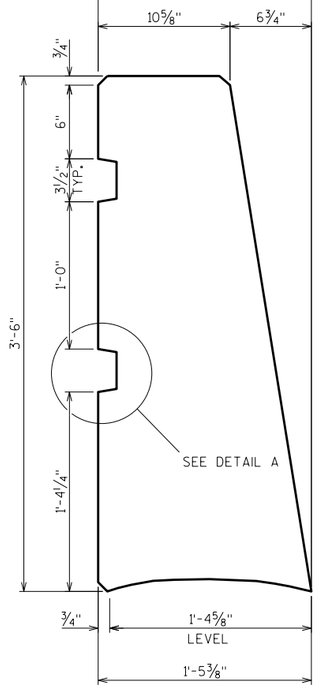
DOUBLE RUSTICATION LINES
MODIFIED 'SINGLE SLOPE PARAPET 42SS'
(AREA = 4.01 SF, WEIGHT = 602 LB/FT.)



WING WALL



DETAIL A



MODIFIED 42SS PARAPET

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY SEW | PLANS CK'D. MSC

AESTHETIC DETAILS

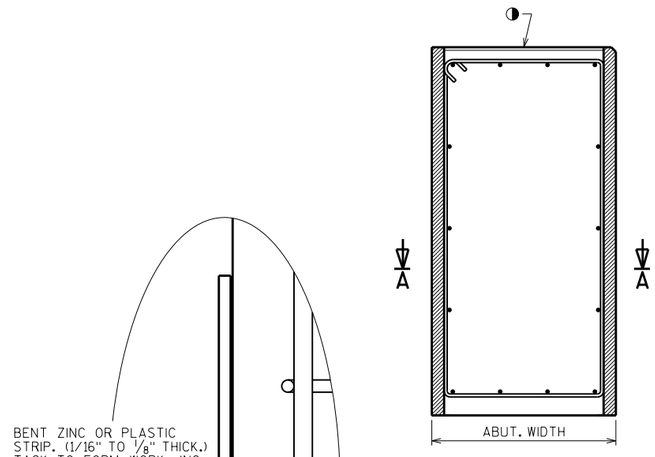
SHEET 21

317

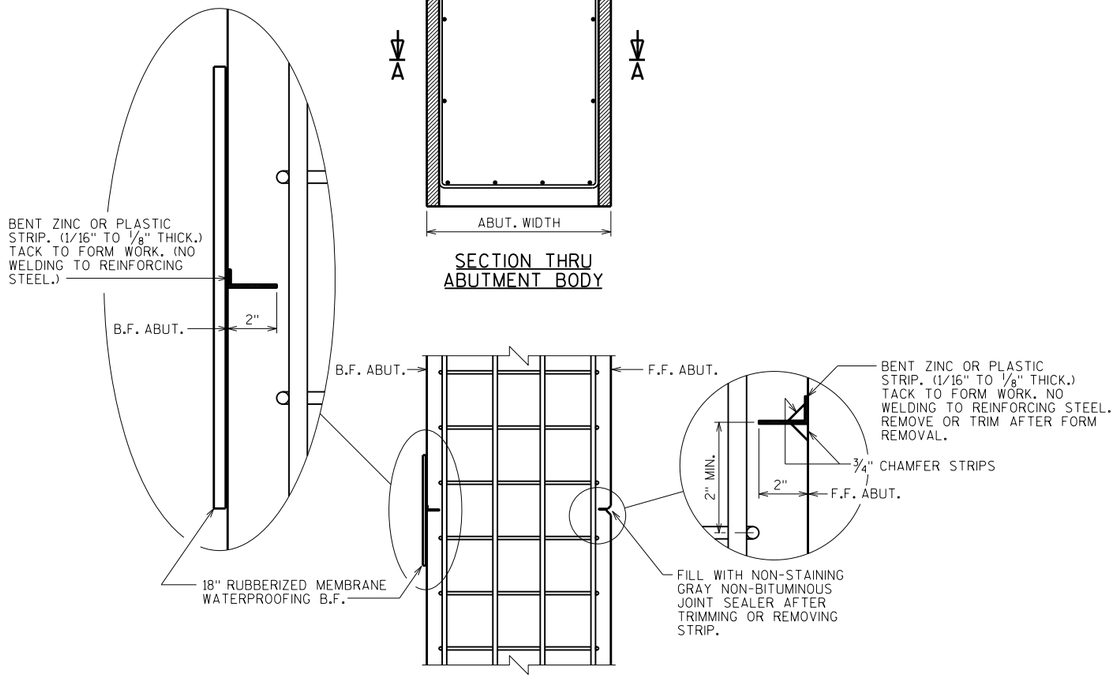
SCALE = 1.50

STATE PROJECT NUMBER

1146-75-71



SECTION THRU ABUTMENT BODY



SECTION A-A

ALTERNATE CONSTRUCTION JOINT AT ABUTMENT

NOTES

PARTIAL ZINC OR PLASTIC BULKHEAD MAY BE USED AS ALTERNATE CONSTRUCTION JOINT, WITH THE PERMISSION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

VERTICAL CONSTRUCTION JOINT KEYWAY IS NOT REQUIRED WHEN USING ALTERNATE CONSTRUCTION JOINT.

CARE IS TO BE USED IN CASTING CONCRETE AROUND BULKHEAD TO PREVENT DISLOCATION OR MISALIGNMENT OF THE BULKHEAD.

SAW CUTTING JOINT IS NOT ALLOWED.

◑ USE A JOINT TOOL TO CONSTRUCT A CONTRACTION JOINT APPROXIMATELY 1/2" DEEP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY	SEW	PLANS CK'D.	MSC

ALTERNATE CONSTRUCTION JOINT

SHEET 22

318

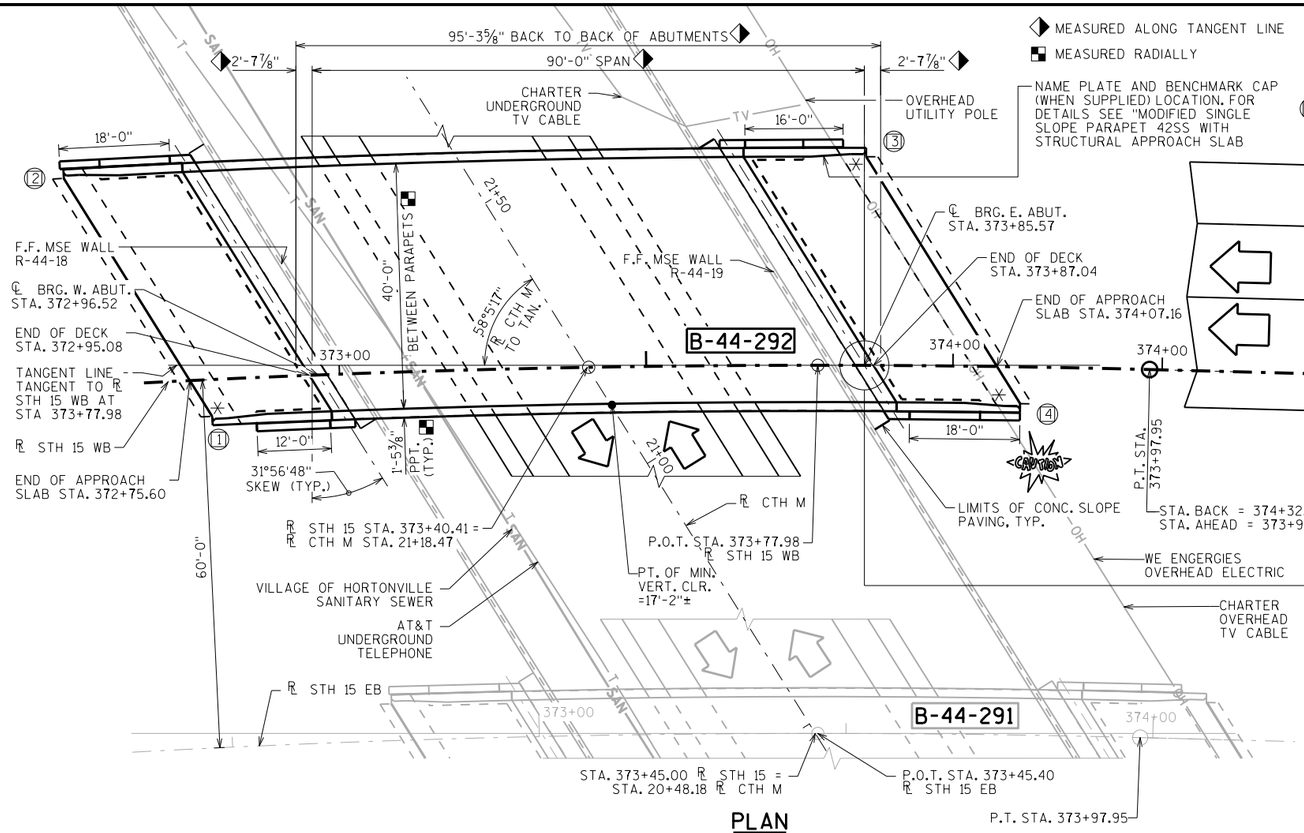
SCALE = 1.00

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STATE PROJECT NUMBER

1146-75-71



MEASURED ALONG TANGENT LINE

MEASURED RADIALLY

NAME PLATE AND BENCHMARK CAP (WHEN SUPPLIED) LOCATION. FOR DETAILS SEE "MODIFIED SINGLE SLOPE PARAPET 42SS WITH STRUCTURAL APPROACH SLAB

PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT AT UNUSED ANCHOR ASSEMBLIES CAULK HOLES SHUT WITH "100% SILICONE CAULK".

INDICATES WING NUMBER

NOTE: SURFACE DRAINS REQUIRED ON WINGS 1 & 2. SEE ROADWAY PLANS FOR DETAILS.

PLAN

SINGLE SPAN - 36W" PRESTRESSED GIRDERS

DESIGN DATA

LIVE LOAD:

DESIGN LOADING; HL-93
INVENTORY RATING FACTOR: RF=1.06
OPERATING RATING FACTOR: RF=1.38
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 230 (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY SUPERSTRUCTURE — f'c = 4,000 P.S.I. ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 P.S.I.

36W" PRESTRESSED GIRDERS, CONCRETE MASONRY — f'c = 8,000 P.S.I.
STRANDS- 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 12X53 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 220 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 35'-0" LONG AT THE WEST ABUTMENT, PILE POINTS REQUIRED.
ESTIMATED 30'-0" LONG AT THE EAST ABUTMENT, PILE POINTS REQUIRED.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TANGENT OFFSET DETAIL

LOCATION	DIM. "A" (ALONG ℄ SUB.)
WEST ABUT.	1'-10⅜"
EAST ABUT.	0'-0¼"

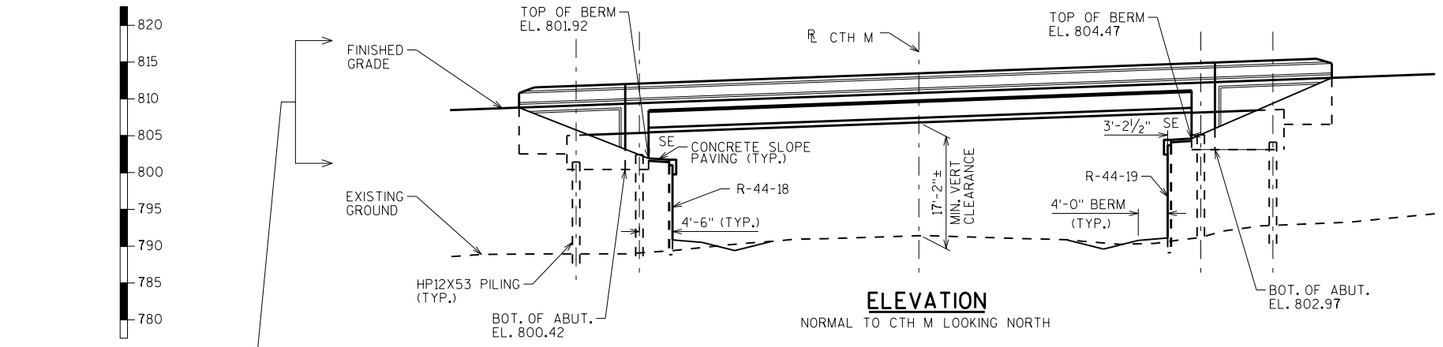
TRAFFIC VOLUME

STH 15
A.D.T. = 15,000 (2040)
R.D.S. = 60 M.P.H.

CTH M
A.D.T. = 3,200 (2040)
R.D.S. = 40 M.P.H.

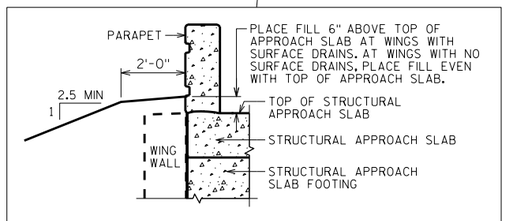
CURVE DATA

STH 15: EB-9	STH 15: WB-9
P.I. = 368+34.14	P.I. = 368+51.67
Δ = 32° 34' 40"	Δ = 32° 34' 40"
D = 2° 48' 31"	D = 2° 43' 42"
T = 596.11	T = 613.64
L = 1159.92	L = 1194.04
R = 2040.00	R = 2100.00
S.E. = VARIES	S.E. = VARIES (5.3% MAX)
P.C. = 362+38.03	P.C. = 362+38.03
P.T. = 373+97.95	P.T. = 373+97.95 (AHEAD) 374+32.06 (BACK)

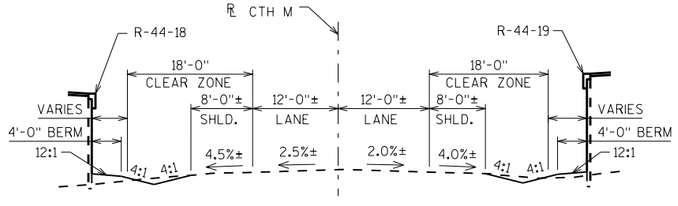


ELEVATION

NORMAL TO CTH M LOOKING NORTH



TYPICAL FILL SECTION AT END OF STRUCTURAL APPROACH SLABS



TYPICAL SECTION THRU CTH M

NORMAL TO CTH M LOOKING NORTH

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION
3. QUANTITIES & GENERAL NOTES
4. SUBSURFACE EXPLORATION
5. WEST ABUTMENT
6. WEST ABUTMENT DETAILS
7. EAST ABUTMENT
8. EAST ABUTMENT DETAILS
9. 36W" PRESTRESSED GIRDER DETAILS 1
10. 36W" PRESTRESSED GIRDER DETAILS 2
11. STEEL DIAPHRAGM
12. SUPERSTRUCTURE CROSS SECTION
13. SUPERSTRUCTURE
14. SUPERSTRUCTURE BAR DETAILS
15. DECK LAYOUT
16. W. STRUCTURAL APPROACH SLAB
17. W. STRUCT. APP. SLAB DETAILS
18. E. STRUCTURAL APPROACH SLAB
19. E. STRUCT. APP. SLAB DETAILS
20. MODIFIED SINGLE SLOPE PARAPET 42SS
21. AESTHETIC DETAILS
22. ALTERNATE CONSTRUCTION JOINT

STRUCTURE DESIGN CONTACTS:

STACIE WEIS (608) 261-6109
DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION — BUREAU OF STRUCTURES

ACCEPTED DMB 01/06/21
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-44-292

STH 15 WB OVER CTH M

COUNTY: OUTAGAMIE
TOWN/~~CITY~~/VILLAGE: HORTONIA/HORTONVILLE

DESIGN SPEC.: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
SEW	MSC	SEW	ABS

GENERAL PLAN

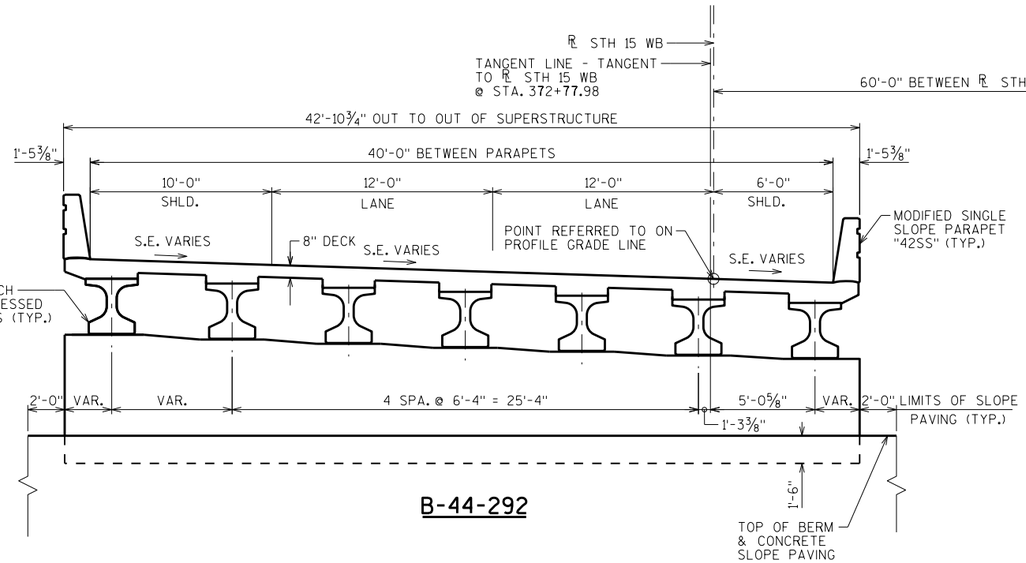
SHEET 1 OF 22

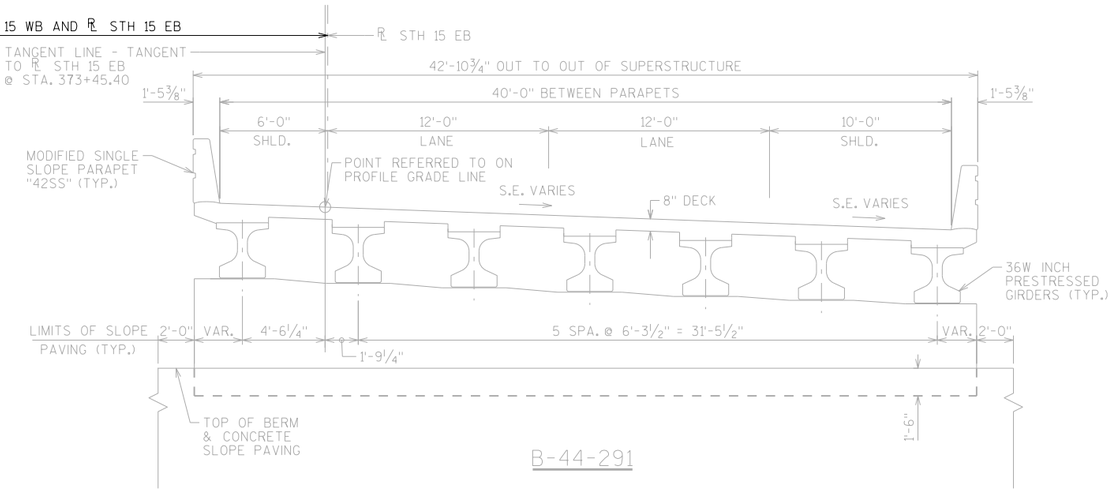
319

I.D. 1146-75-00BA DATE: JAN. 2021

SCALE = 12.00

STATE PROJECT NUMBER
1146-75-71





CROSS SECTION THRU ROADWAY LOOKING EAST

(ALL HORIZONTAL DIMENSIONS ARE MEASURED RADIALLY - NORMAL TO THE CURVE ℄ STH 15 WB)

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D. ABS

CROSS SECTION

SHEET 2

320

SCALE = 4.00

STATE PROJECT NUMBER

1146-75-71

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾"UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-44-292" SHALL BE THE EXISTING GROUNDLINE.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL. ALSO EXCLUDED IS THE "BASE AGGREGATE DENSE 1 1/4-INCH" AS DETAILED ON THE STRUCTURAL APPROACH SLAB SHEETS.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

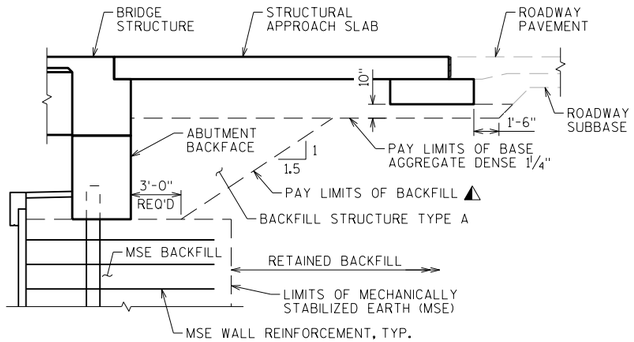
PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND APPROACH SLAB SURFACES AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

PIGMENTED PROTECTIVE SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON APPROACH SLABS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

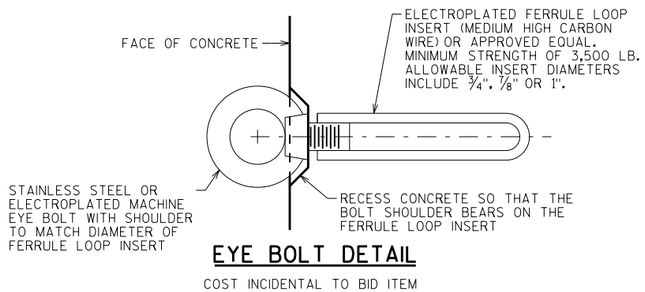
THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "36W" PRESTRESSED GIRDER DETAILS 2" SHEET.

THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF B-44-292 WITH RETAINING WALLS R-44-18 AND R-44-19.



TYPICAL SECTION THRU ABUTMENT

◭ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

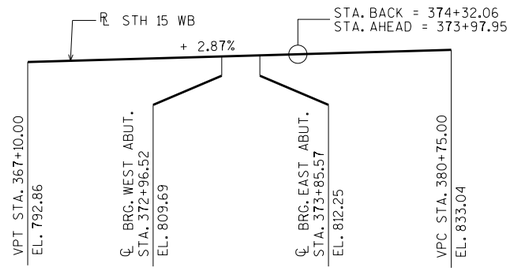


EYE BOLT DETAIL

COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	WEST APP. SLAB	WEST ABUT.	EAST ABUT.	EAST APP. SLAB	TOTALS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-44-292	LS	———	———	———	———	———	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	———	———	193	182	———	375
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	———	128	———	———	131	259
502.0100	CONCRETE MASONRY BRIDGES	CY	188	62	61	61	64	436
502.3200	PROTECTIVE SURFACE TREATMENT	SY	434	89	———	———	89	612
502.3210	PIGMENTED SURFACE SEALER	SY	89	21	———	———	21	131
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF	636	———	———	———	———	636
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	———	———	3750	4200	———	7950
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	26330	10820	2020	2160	10880	52210
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	1445	———	———	———	———	1445
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	14	———	———	———	———	14
506.4000	STEEL DIAPHRAGMS B-44-292	EACH	12	———	———	———	———	12
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	———	———	14	16	———	30
550.0500	PILE POINTS	EACH	———	———	10	10	———	20
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF	———	———	350	300	———	650
604.0400	SLOPE PAVING CONCRETE	SY	———	———	17	17	———	34
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	3	———	———	———	———	3
			———	———	———	———	———	
	NON-BID ITEMS		———	———	———	———	———	
	FILLER	SIZE	———	———	———	———	———	½", ¾" &1½"



PROFILE GRADE LINE STH 15 WB

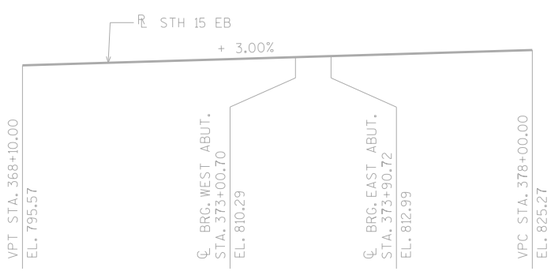
B-44-292 SUPER ELEVATION TRANSITIONS

STATION		DESCRIPTION	LT SHLD.	LT LANE	RT LANE	RT SHLD.
363+08.6875	◭	BEGIN FULL SUPER	5.30%	5.30%	5.30%	5.30%
373+61.4050	◭	END FULL SUPER	5.30%	5.30%	5.30%	5.30%
374+13.4050	◭	LOW SHLD MATCH	4.00%	4.00%	4.00%	4.00%
374+59.2897	◪	REVERSE CROWN	2.00%	2.00%	2.00%	4.00%

◭ STA. BACK, ◪ STA. AHEAD

** PT STA. EQN: STA. BACK = 374+32.06; STA. AHEAD = 373+97.95

NOTE: SUPER ELEVATION INFORMATION PROVIDED FOR INFORMATIONAL PURPOSES ONLY.



PROFILE GRADE LINE STH 15 EB

B-44-291 SUPER ELEVATION TRANSITIONS

STATION	DESCRIPTION	LT SHLD.	LT LANE	RT LANE	RT SHLD.
363+10.0207	BEGIN FULL SUPER	5.40%	5.40%	5.40%	5.40%
373+25.9565	END FULL SUPER	5.40%	5.40%	5.40%	5.40%
373+81.9565	LOW SHLD MATCH	4.00%	4.00%	4.00%	4.00%
374+61.9565	REVERSE CROWN	2.00%	2.00%	2.00%	4.00%

NOTE: SUPER ELEVATION INFORMATION PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

CTH M EXISTING ELEVATIONS

STATION	℄ ELEVATION
20+00.00	791.18
20+25.00	790.78
20+50.00	790.39
20+75.00	790.01
21+00.00	789.67
21+25.00	789.36
21+50.00	789.07
21+75.00	788.75
22+00.00	788.42

NOTE: EXISTING ELEVATIONS PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D. ABS

QUANTITIES & GENERAL NOTES

SHEET 3

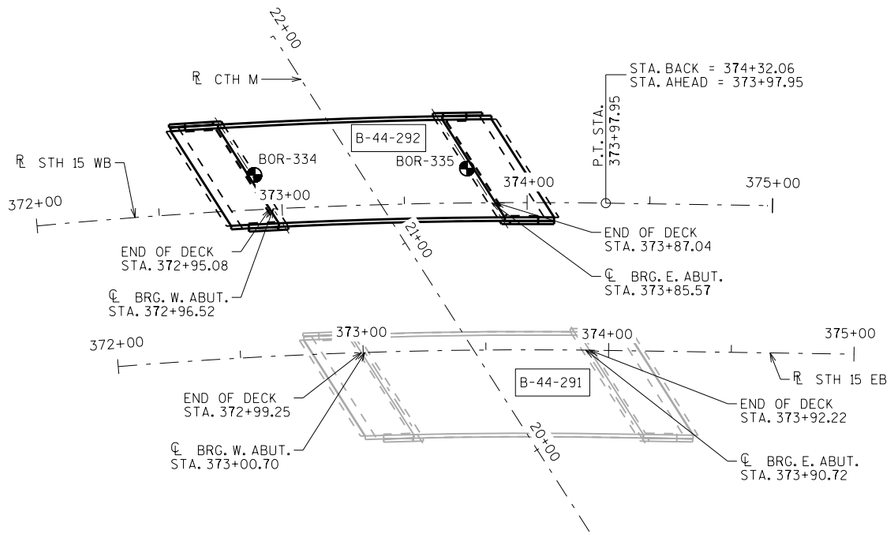
321

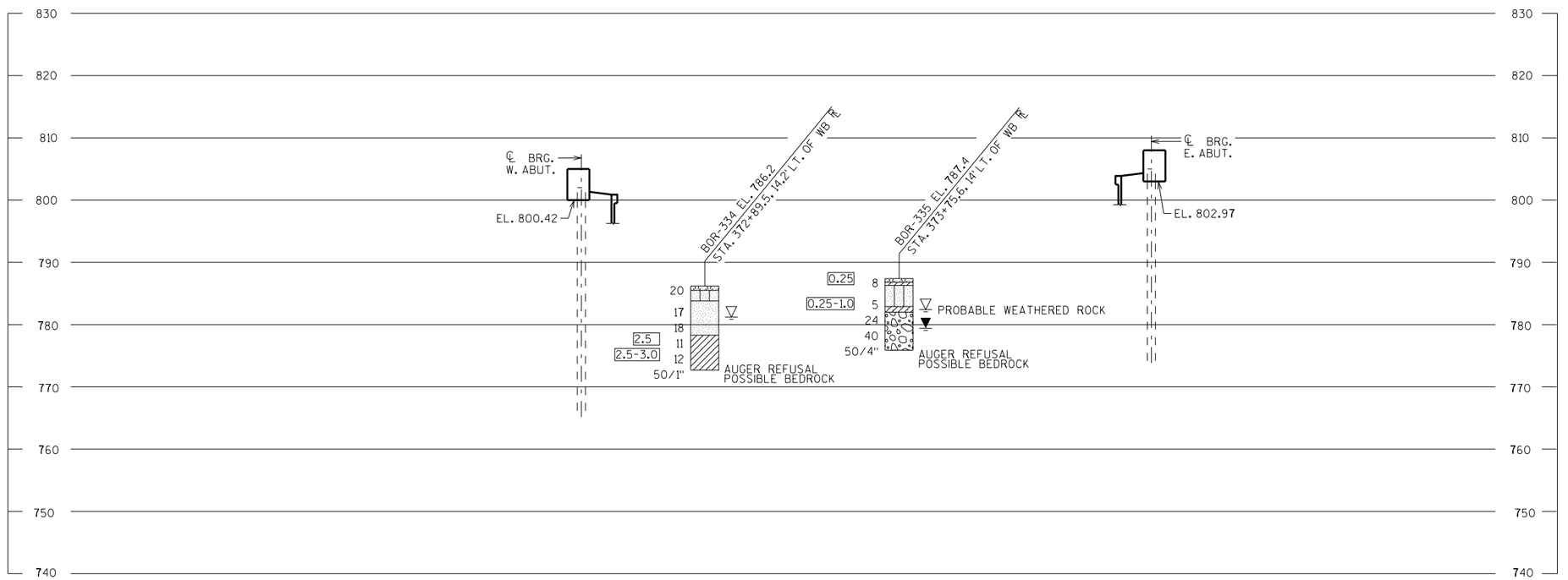
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8

SCALE = 4.00

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
334	2/27/2014	592857	767494
335	2/26/2014	592812	767568
BORINGS COMPLETED BY: GESTRA			
REPORT COMPLETED BY: CH2M HILL			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY			





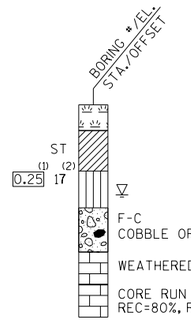
STATE PROJECT NUMBER

1146-75-71

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY TLP | PLANS CK'D. ABS

SUBSURFACE EXPLORATION

SHEET 4

322

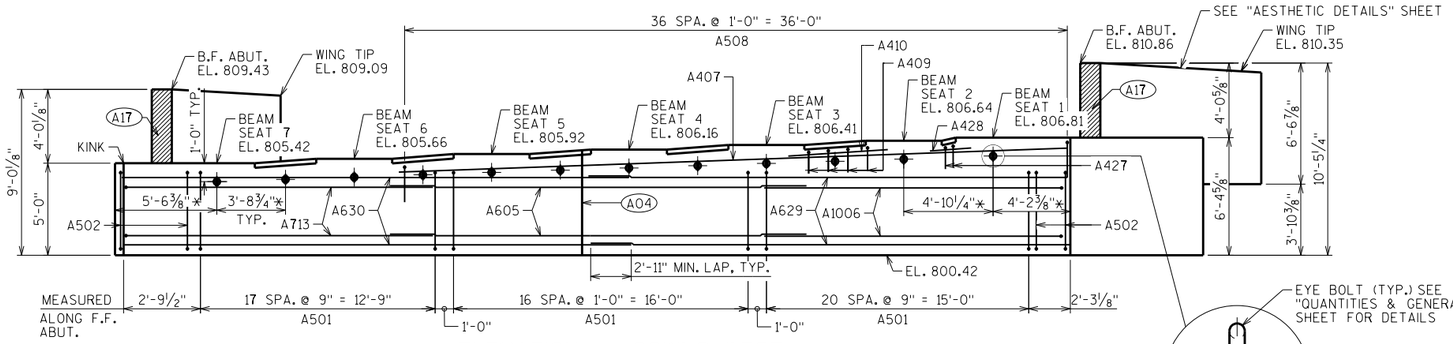
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STATE PROJECT NUMBER

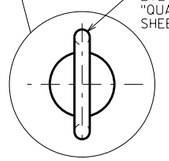
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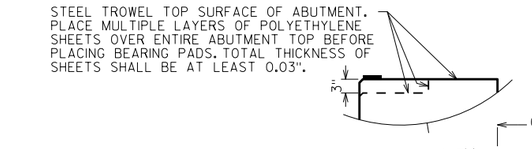


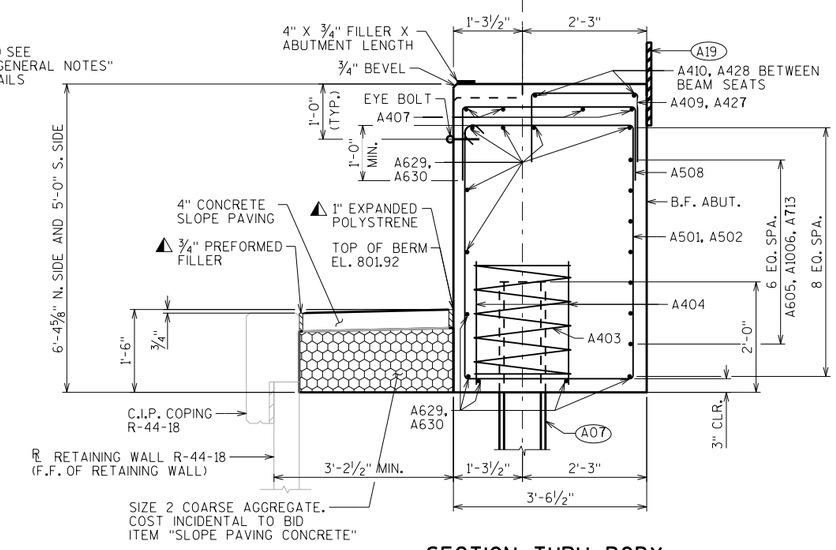
ELEVATION - LOOKING WEST

* DIMENSION MEASURED ALONG F.F. OF ABUT.

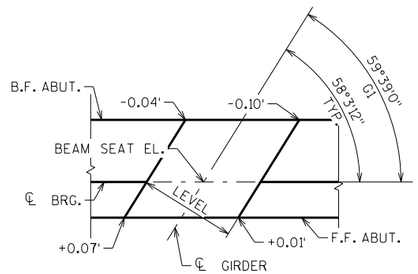
NOTE: FOR EYE BOLT DETAIL SEE "QUANTITIES" SHEET.



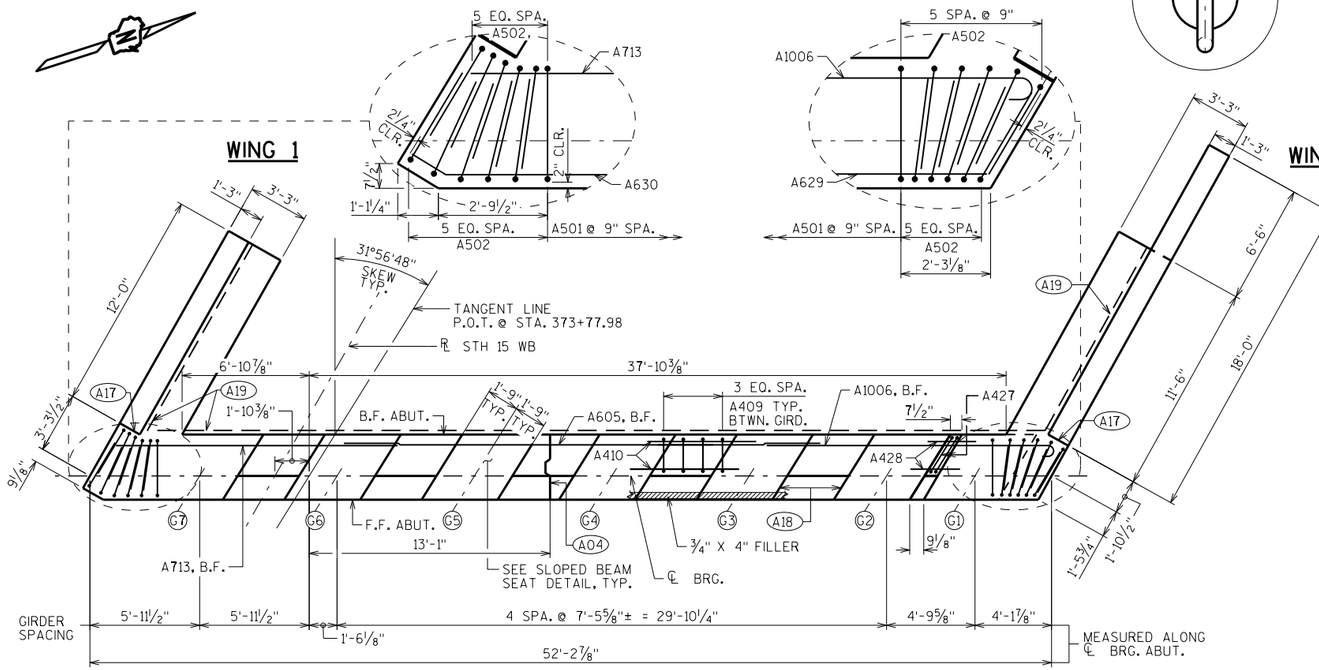




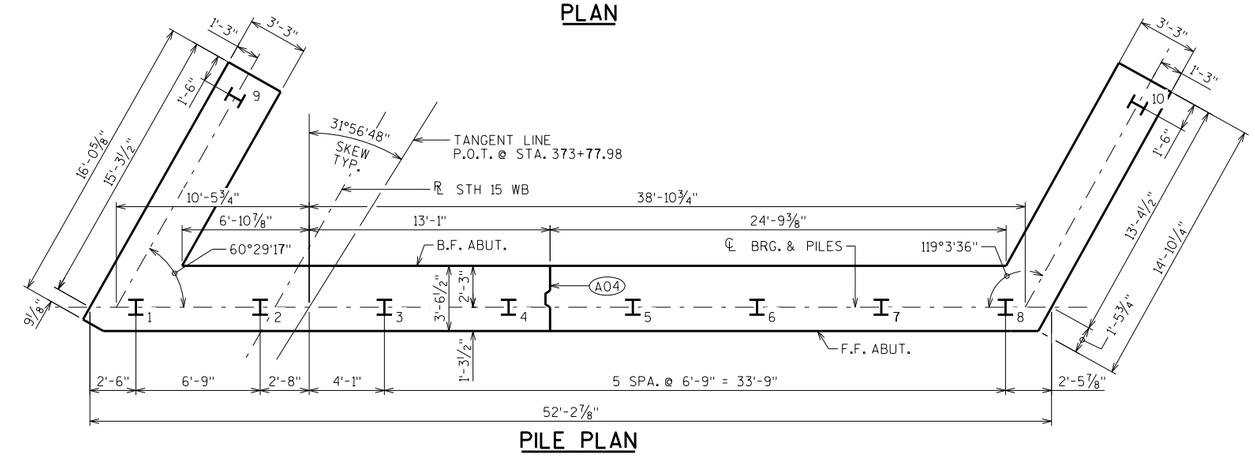
SECTION THRU BODY



SLOPED BEAM SEAT



PLAN



PILE PLAN

(A04) VERT. CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 x 8, 3/4" "V" GROOVE @ THE FRONT FACE AND 18" RMW @ BACKFACE. FOR OPTIONAL DETAILS SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.

(A07) SUPPORT ABUTMENT ON HP 12 X 53 STEEL PILING, ESTIMATED 35'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE. PILE POINTS REQUIRED.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED ORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

◭ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER AND EXPANDED POLYSTYRENE WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1"Ø BELOW SURFACE OF CONCRETE).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D. ABS

WEST ABUTMENT

SHEET 5

323

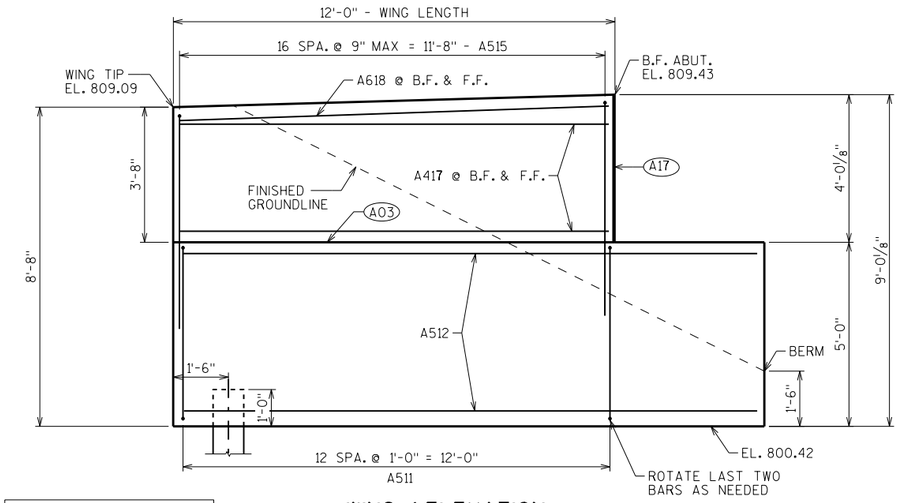
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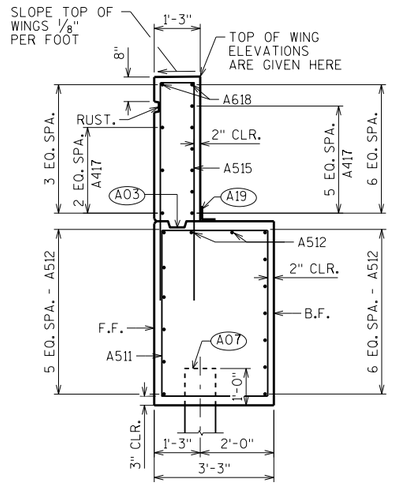
STATE PROJECT NUMBER

1146-75-71

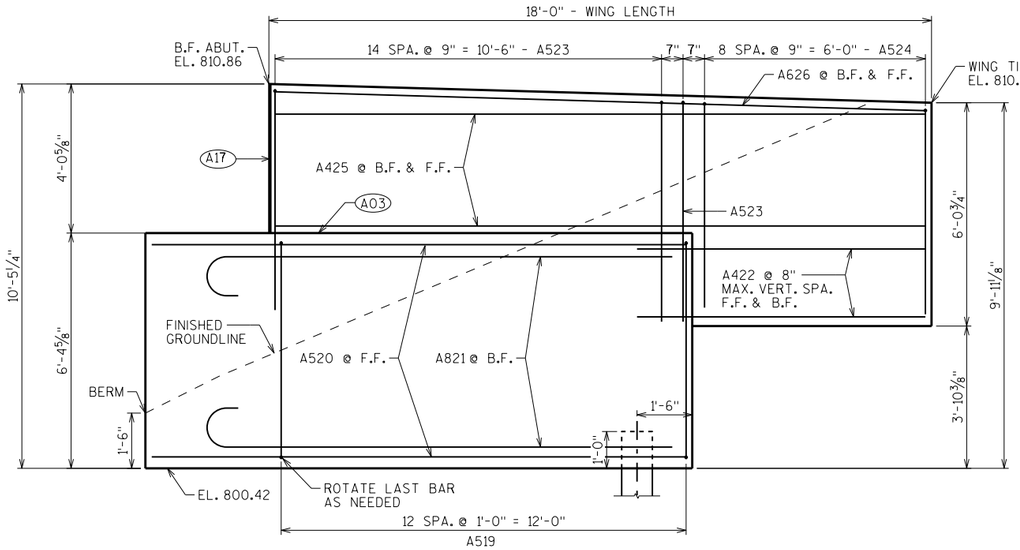


WING 1 ELEVATION

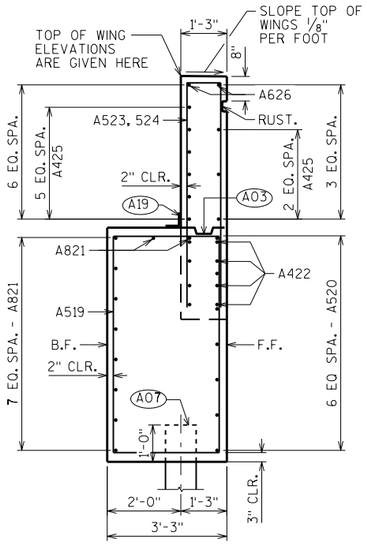
SEE "AESTHETIC DETAILS" SHEET FOR RUSTICATIONS



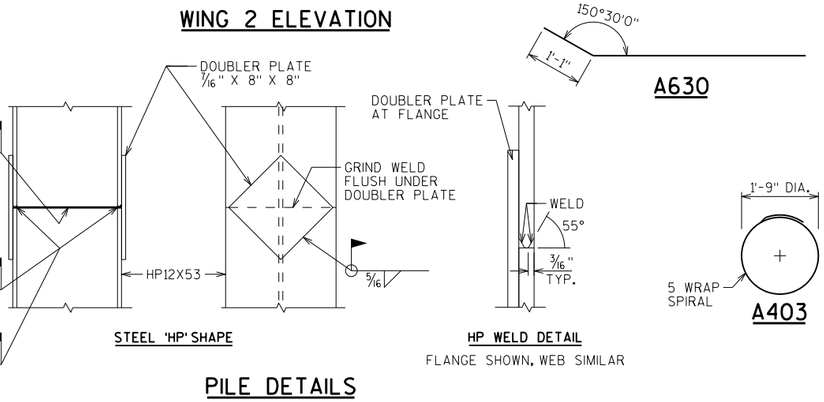
SECTION THRU WING 1



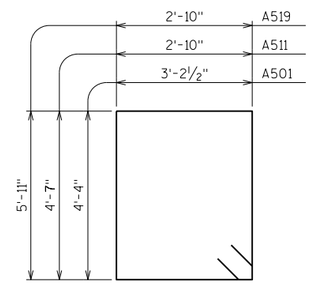
WING 2 ELEVATION



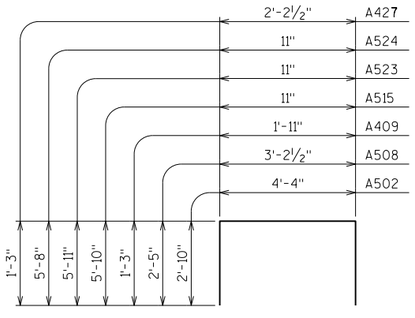
SECTION THRU WING 2



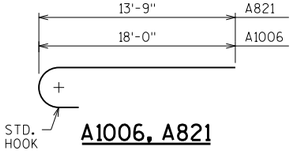
PILE DETAILS



A501, A511, A519



A502, A508, A409, A515 A523, A524, A427



A1006, A821

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A501		56	15'-9"	X		BODY - VERTICAL - STIRRUPS
A502		20	9'-9"	X		BODY - VERTICAL - ENDS
A403		8	28'-0"	X		BODY - 1 PER BODY PILE
A404		16	2'-3"			BODY - 2 PER BODY PILE - VERT
A605		7	27'-3"			BODY - HORIZONTAL - B.F.
A1006		7	19'-5"	X		BODY - HORIZONTAL - B.F. - HOOK
A407		4	36'-4"			BODY - HORZ - NORTH END ONLY
A508		37	7'-10"	X		BODY - VERT - NORTH END ONLY
A409		20	4'-3"	X		BODY - VERT - BWTN BEAM SEATS 2-7
A410		10	5'-6"			BODY - HORZ - BWTN BEAM SEATS 2-7
A511	X	13	15'-6"	X		WING 1 - VERTICAL - STIRRUPS
A512	X	15	13'-7			WING 1 - HORIZONTAL - F.F. & B.F.
A713		7	12'-0"			BODY - HORIZ - B.F.
~~A414~~						NOT USED
A515	X	17	12'-4"	X		WING 1 - VERTICAL - UPPER
~~A516~~	X					NOT USED
A417	X	9	11'-7"			WING 1 - HORZ - B.F. & F.F. - UPPER
A618	X	2	11'-7"			WING 1 - HORIZONTAL - TOP
A519	X	13	18'-2"	X		WING 2 - VERTICAL - STIRRUPS
A520	X	7	14'-5"			WING 2 - HORIZONTAL - F.F.
A821	X	10	14'-8"	X		WING 2 - HORIZONTAL - B.F. - HOOK
A422	X	8	7'-9"			WING 2 - HORIZONTAL
A523	X	16	12'-6"	X		WING 2 - VERTICAL - UPPER
A524	X	9	12'-0"	X		WING 2 - VERTICAL
A425	X	9	17'-7"			WING 2 - HORZ - B.F. & F.F. - UPPER
A626	X	2	17'-7"			WING 2 - HORIZONTAL - TOP
A427		2	4'-7"	X		BODY - B/W BEAM SEATS 1 & 2
A428		2	2'-10"			BODY - B/W BEAM SEATS 1 & 2
A629		11	26'-5"			BODY - HORIZONTAL
A630		11	28'-2"	X		BODY - HORIZONTAL

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 X 6. (18" RMW @ B.F. & ¾" "V" GROOVE @ F.F. IF JOINT IS USED.)

(A07) SUPPORT ABUTMENT ON HP 12 x 53 STEEL PILING. ESTIMATED 35'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D. ABS

WEST ABUTMENT DETAILS

SHEET 6

324

SCALE = 2.00

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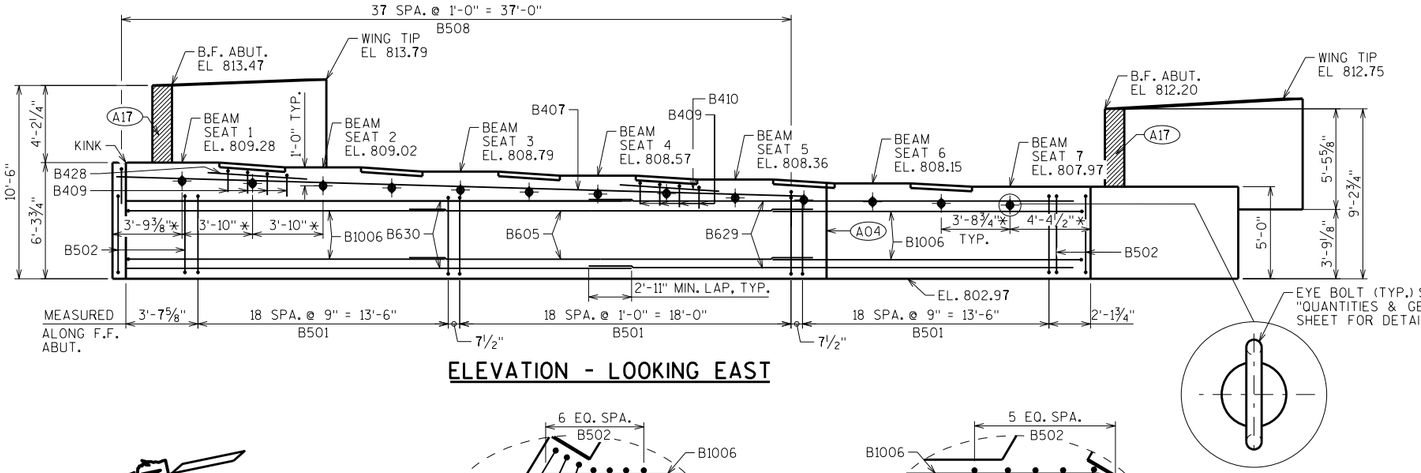
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STATE PROJECT NUMBER

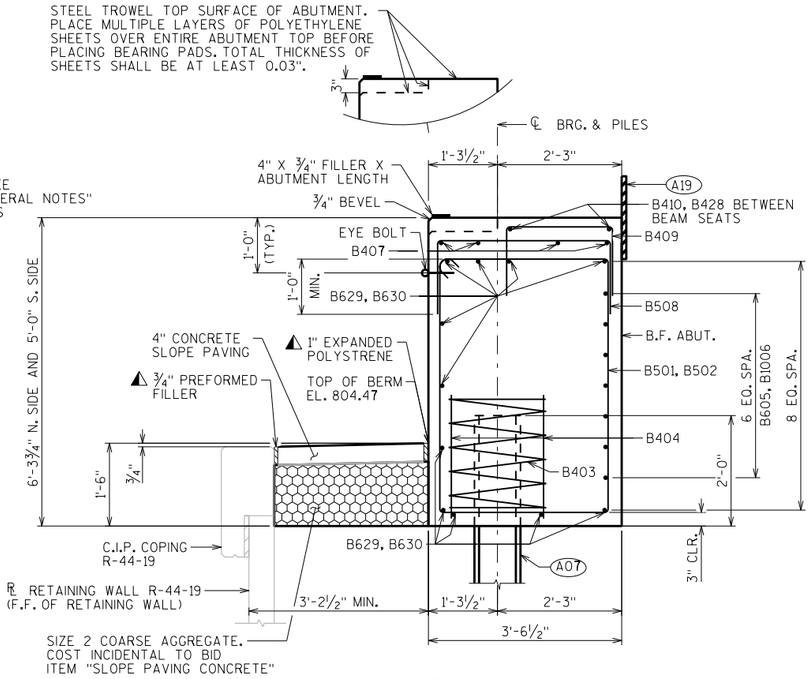
1146-75-71

* DIMENSION MEASURED ALONG F.F. OF ABUT.

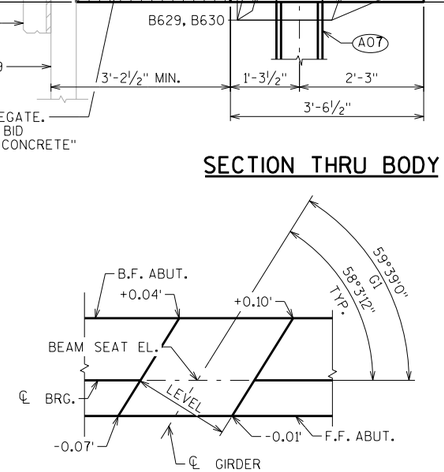
NOTE: FOR EYE BOLT DETAIL SEE "QUANTITIES" SHEET.



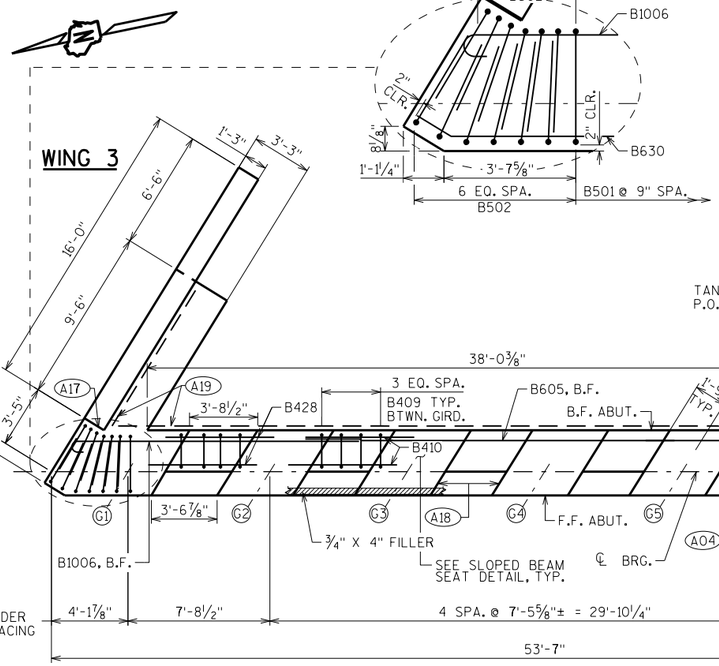
ELEVATION - LOOKING EAST



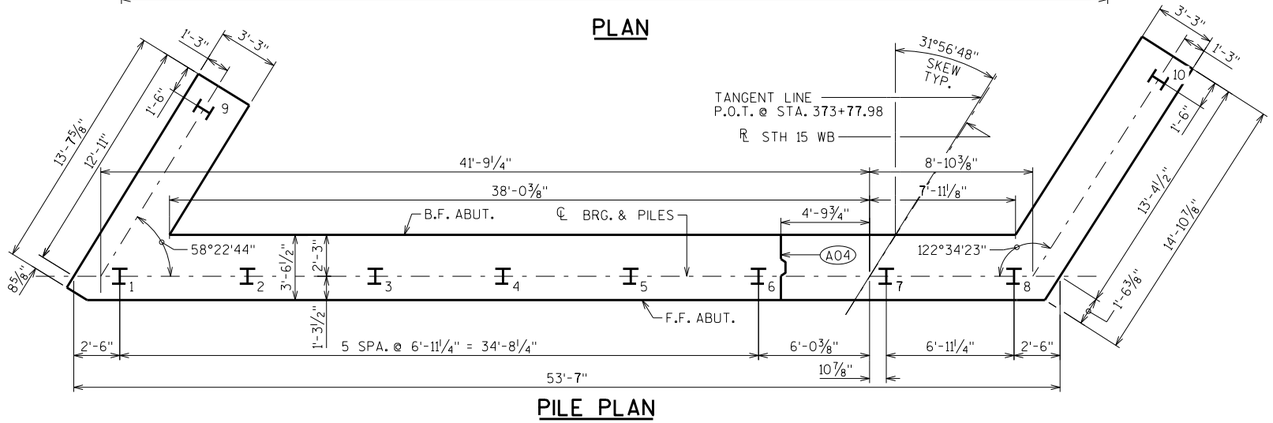
SECTION THRU BODY



SLOPED BEAM SEAT



PLAN



PILE PLAN

(A04) VERT. CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 x 8. 3/4" "V" GROOVE @ THE FRONT FACE AND 18" RMW @ BACKFACE. FOR OPTIONAL DETAILS SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.

(A07) SUPPORT ABUTMENT ON HP 12 X 53 STEEL PILING, ESTIMATED 30'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE. PILE POINTS REQUIRED.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED ORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

▲ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER AND EXPANDED POLYSTYRENE WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1"8" BELOW SURFACE OF CONCRETE).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

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EAST ABUTMENT

SHEET 7

325

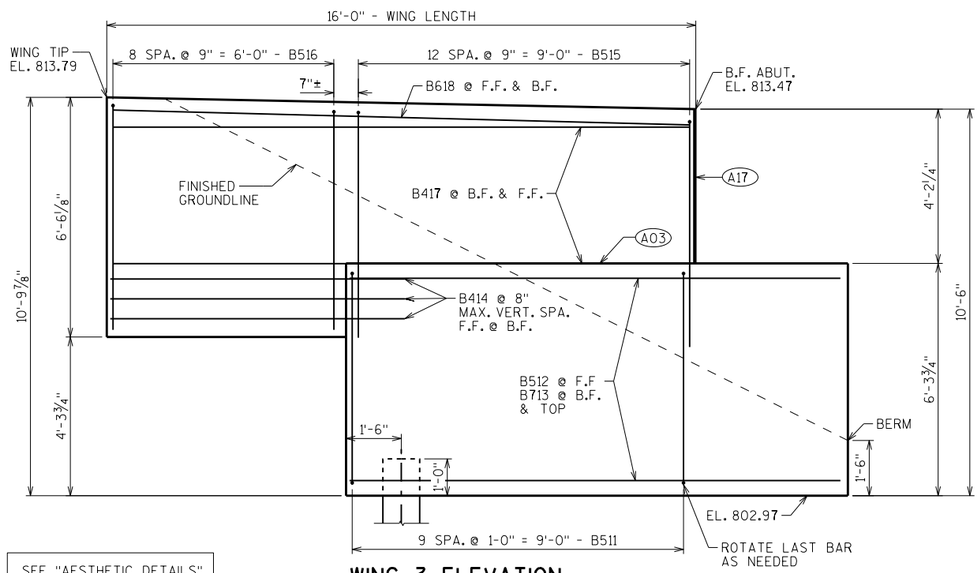
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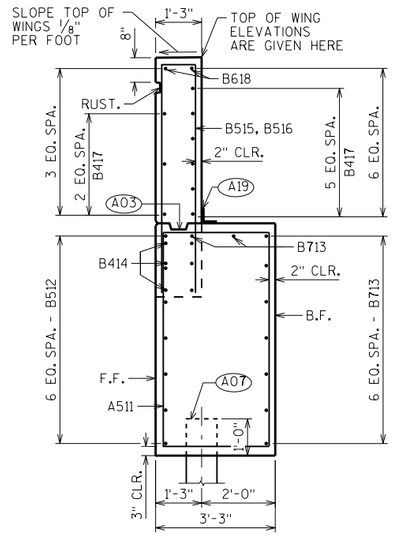
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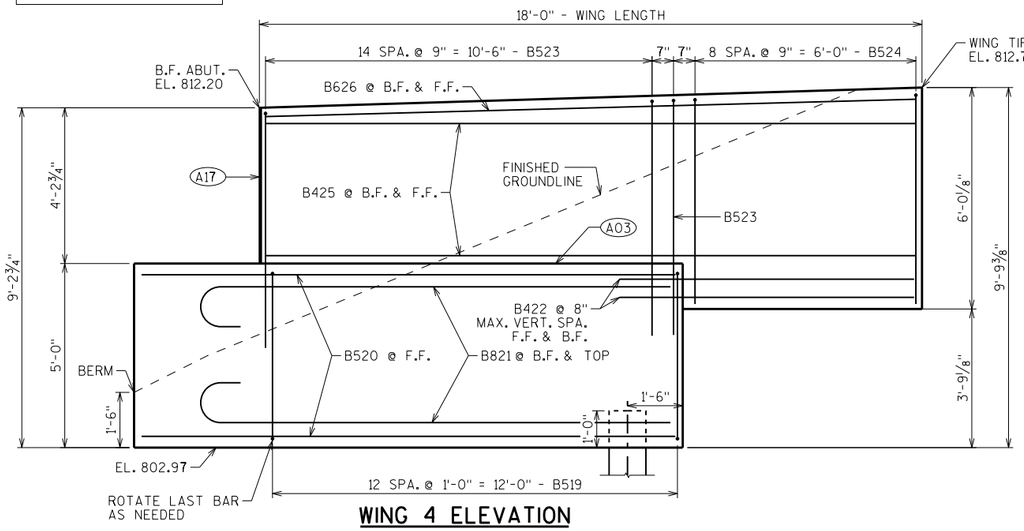


SEE "AESTHETIC DETAILS" SHEET FOR RUSTICATIONS

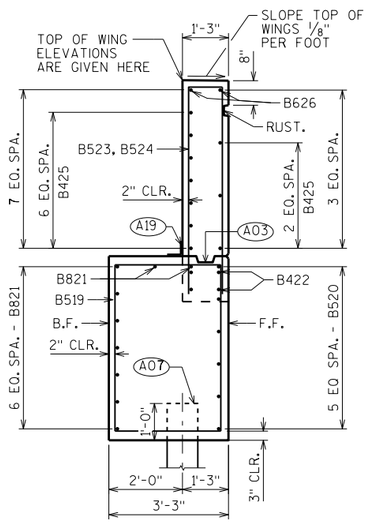
WING 3 ELEVATION



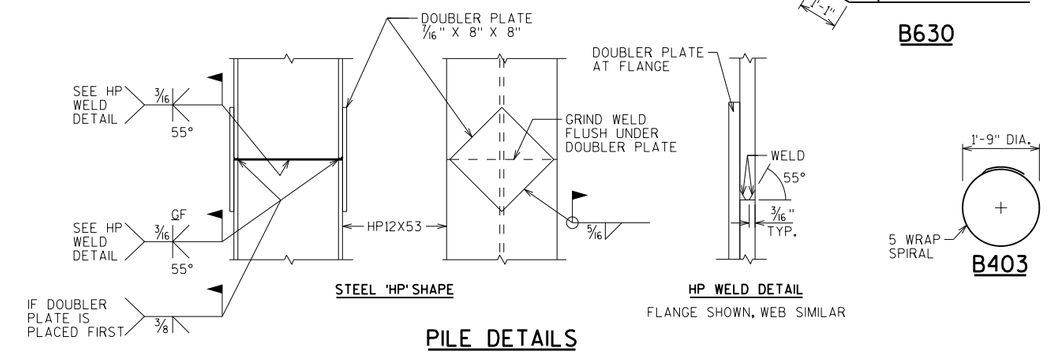
SECTION THRU WING 3



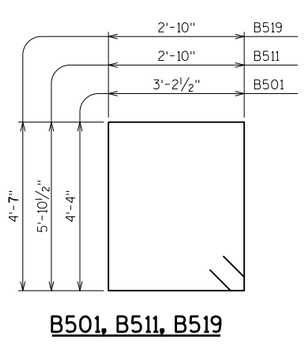
WING 4 ELEVATION



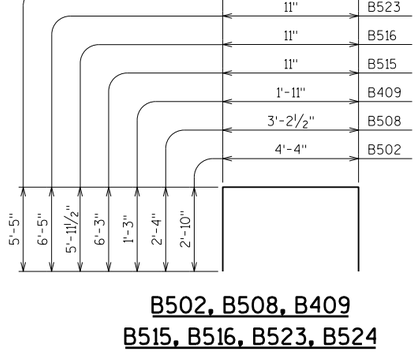
SECTION THRU WING 4



PILE DETAILS



B501, B511, B519



B502, B508, B409 B515, B516, B523, B524

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

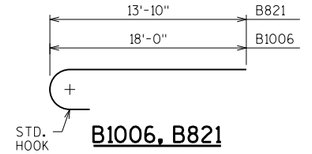
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		57	15'-9"	X		BODY - VERTICAL - STIRRUPS
B502		22	9'-9"	X		BODY - VERTICAL - ENDS
B403		8	28'-0"	X		BODY - 1 PER BODY PILE
B404		16	2'-3"			BODY - 2 PER BODY PILE - VERT
B605		7	23'-10"			BODY - HORIZONTAL
B1006		14	19'-5"	X		BODY - HORIZONTAL - B.F. - HOOK
B407		4	37'-4"			BODY - HORZ - NORTH END ONLY
B508		38	7'-8"	X		BODY - VERT - NORTH END ONLY
B409		24	4'-3"	X		BODY - VERT - BWTN BEAM SEATS
B410		10	5'-6"			BODY - HORZ - BWTN BEAM SEATS 2-7
B511	X	10	18'-1"	X		WING 3 - VERTICAL - STIRRUPS
B512	X	7	13'-1"			WING 3 - HORIZONTAL - F.F.
B713	X	9	11'-11"			WING 3 - HORIZONTAL - B.F. - TOP
B414	X	6	7'-9"			WING 3 - HORIZONTAL
B515	X	13	13'-2"	X		WING 3 - VERTICAL - UPPER
B516	X	9	12'-7"	X		WING 3 - VERTICAL - UPPER
B417	X	9	15'-7"			WING 3 - HORZ - B.F. & F.F. - UPPER
B618	X	2	15'-7"			WING 3 - HORIZONTAL - TOP
B519	X	13	15'-6"	X		WING 4 - VERTICAL - STIRRUPS
B520	X	6	14'-5"			WING 4 - HORIZONTAL - F.F.
B821	X	9	14'-9"	X		WING 4 - HORIZONTAL - B.F. & TOP - HOOK
B422	X	4	7'-9"			WING 4 - HORIZONTAL
B523	X	16	13'-6"	X		WING 4 - VERTICAL - UPPER
B524	X	9	11'-6"	X		WING 4 - VERTICAL - UPPER
B425	X	10	17'-7"			WING 4 - HORZ - B.F. & F.F.
B626	X	2	17'-7"			WING 4 - HORIZONTAL - TOP
~~B427~~						NOT USED
B428		2	5'-9"			BODY - B/W BEAM SEATS 1 & 2
B629		11	28'-2"			BODY - HORIZONTAL
B630		11	27'-9"	X		BODY - HORIZONTAL

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

(A07) SUPPORT ABUTMENT ON HP 12 x 53 STEEL PILING, ESTIMATED 30'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE. PILE POINTS REQUIRED.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



B1006, B821

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

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EAST ABUTMENT DETAILS

SHEET 8

326

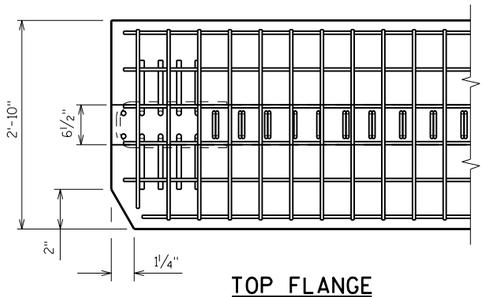
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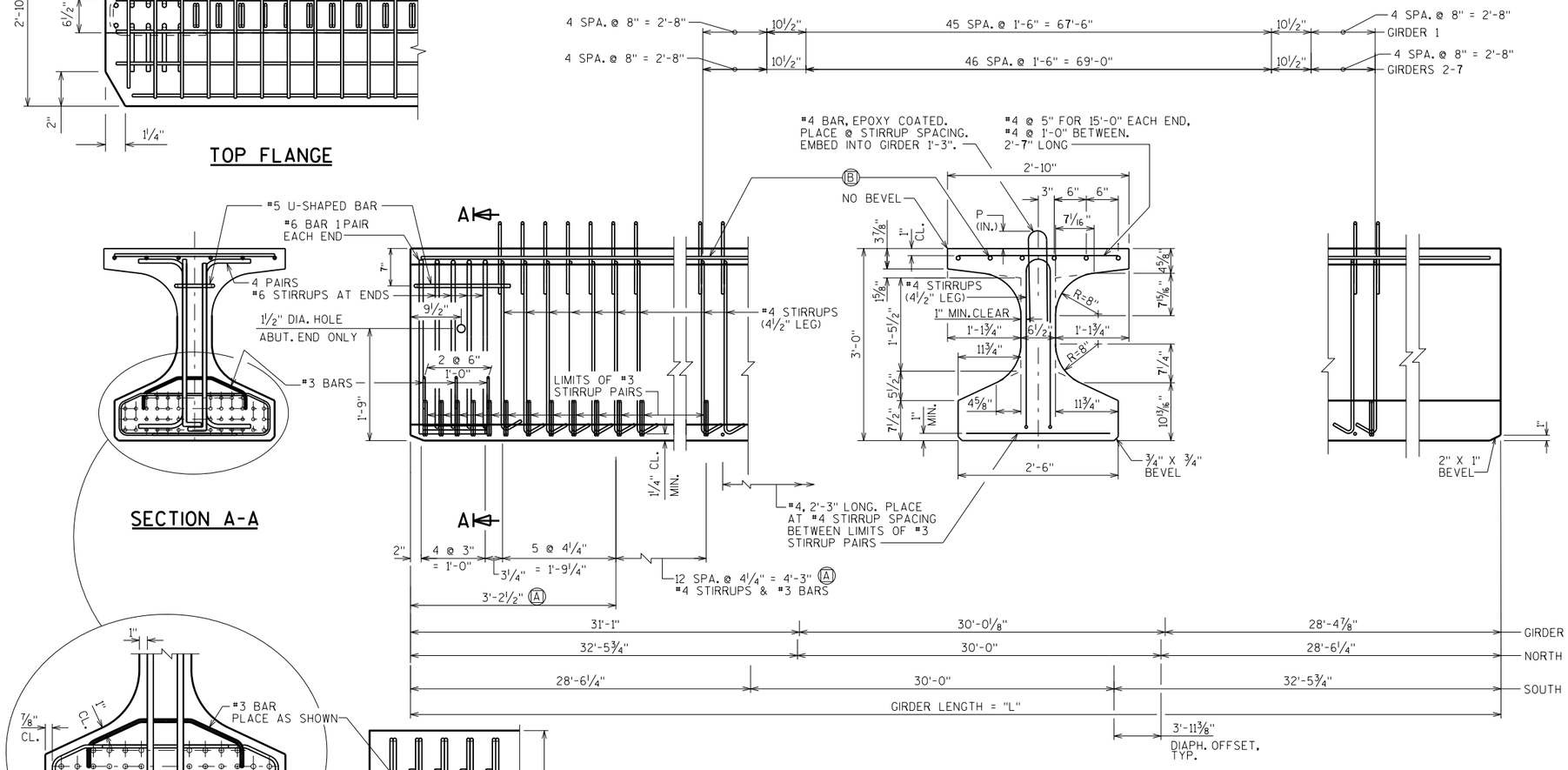
STATE PROJECT NUMBER

1146-75-71



TOP FLANGE

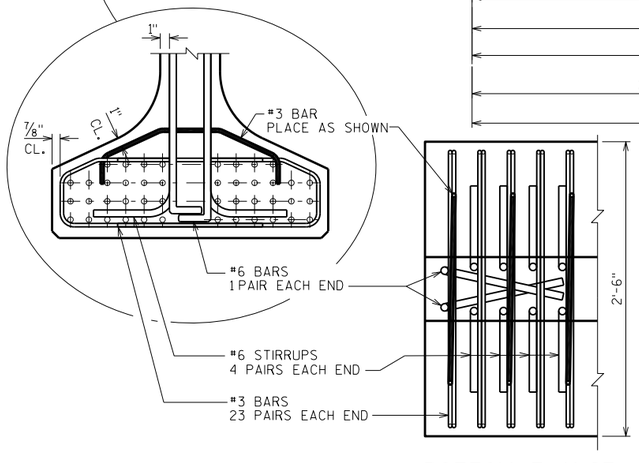
SECTION A-A



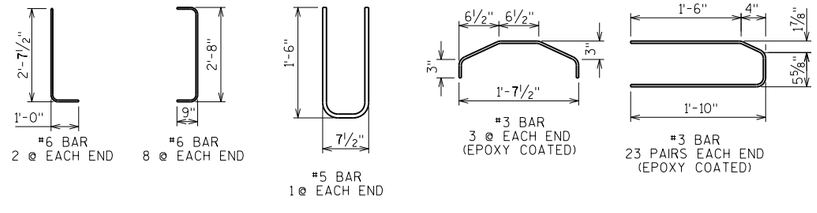
SIDE VIEW & TYPICAL SECTION IN SPAN

(A) DETAIL TYP. AT EACH END

(B) 6 #4 BARS, FULL LENGTH, MIN. LAP = 1'-11"



BOTTOM FLANGE



NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER OR EPOXY TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS. SEE SECT. 503.3.3 OF STANDARD SPECIFICATIONS FOR GUIDANCE.

STRANDS SHALL BE FLUSH WITH END OF GIRDER. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, GRADE 2, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE (0.6" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.

✳ MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.)									CONC. STRGTH. f'c (p.s.i.)	"P" 1ST ⅓ OF GIRDER	"P" MID ⅓ OF GIRDER	"P" END ⅓ OF GIRDER	DIA. OF STRAND (IN.)	DRAPED PATTERN						UNDRAPED PATTERN	
			1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10						TOTAL NO. OF STRANDS	f'ci (P.S.I.) ✳	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	TOTAL NO. OF STRANDS	f'ci (P.S.I.) ✳
1	1	89.50	0.6	1.1	1.5	1.7	1.8	1.7	1.5	1.1	0.6	8000	9	8	9	0.6	32	6400	31	11.5	14.5	5		
1	2-6	91.00	0.6	1.2	1.6	1.9	2.0	1.9	1.6	1.2	0.6	8000	9	8	9	0.6	32	6400	31	11.5	14.5	5		
1	7	91.00	0.6	1.2	1.6	1.9	2.0	1.9	1.6	1.2	0.6	8000	9	8	9	0.6	32	6400	31	11.5	14.5	5		

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

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36W" PRESTRESSED GIRDER DETAILS 1

SHEET 9

327

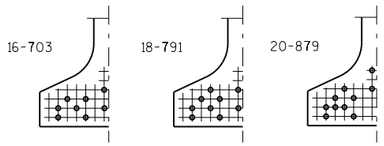
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8

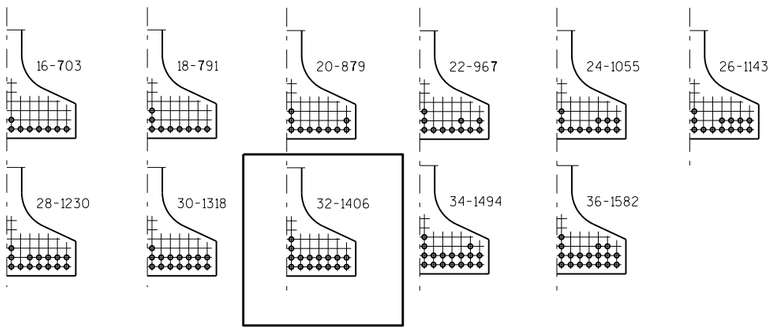
STATE PROJECT NUMBER

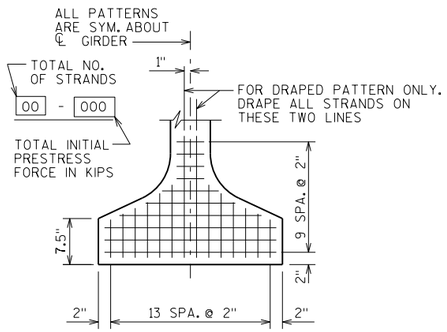
1146-75-71



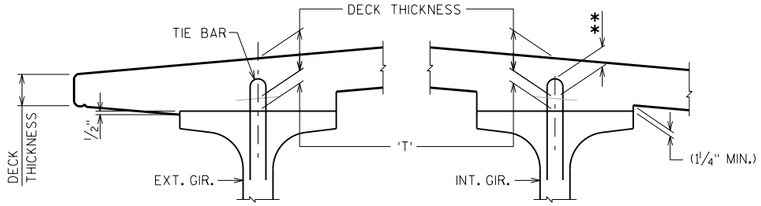
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6"Φ STRANDS





TYP. STRAND PATTERN



DECK HAUNCH DETAIL

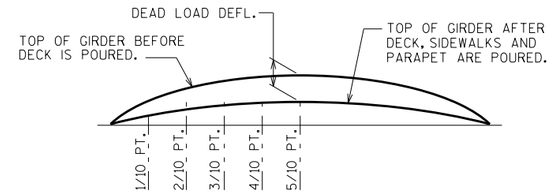
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- DECK THICKNESS
= HAUNCH HEIGHT 'T'

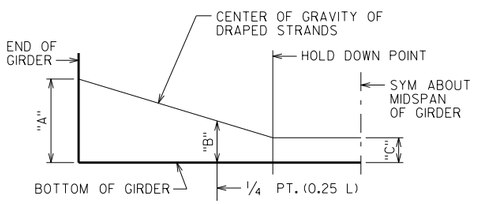
NOTE: AN AVERAGE HAUNCH ('T') OF 3.9" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".



DEAD LOAD DEFLECTION DIAGRAM

ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6"Φ STRANDS



DRAPED STRAND PROFILE

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

SPAN	CAMBER (IN.) *
1	3.63

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D. ABS

36W" PRESTRESSED GIRDER DETAILS 2

SHEET 10

328

8

8

SCALE = 1.00

STATE PROJECT NUMBER

1146-75-71

NOTES

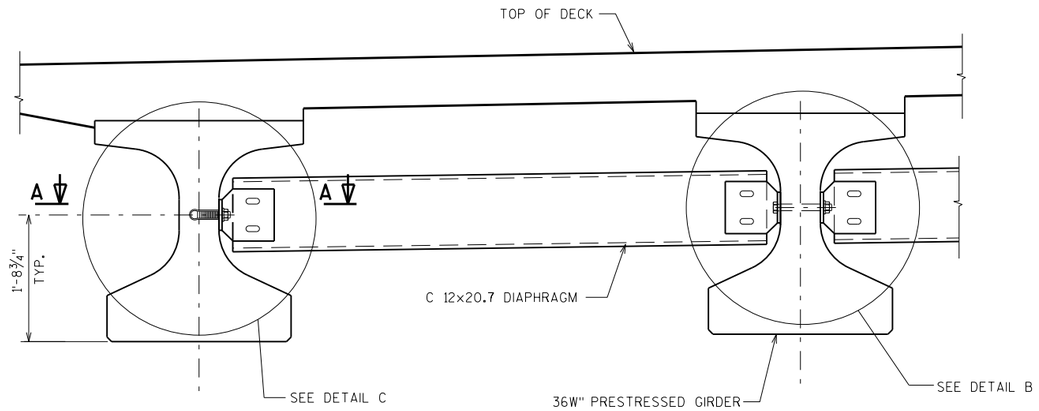
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-44-292", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

ALL DIAPHRAGM MATERIAL INCLUDING BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

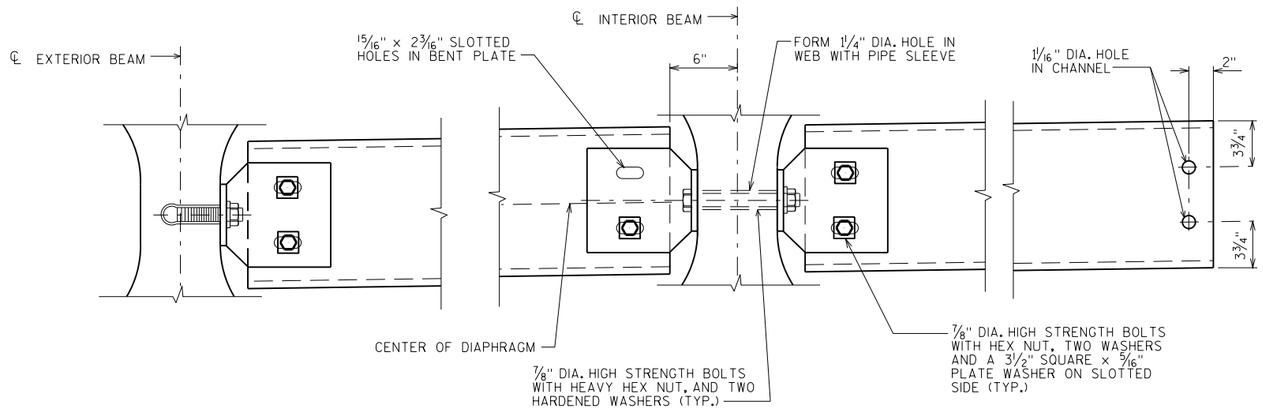
STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS 1/4 TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.



EXTERIOR GIRDER

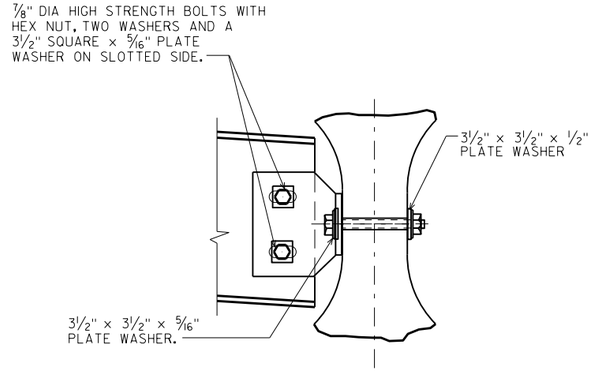
INTERIOR GIRDER

PART TRANSVERSE SECTION AT DIAPHRAGM

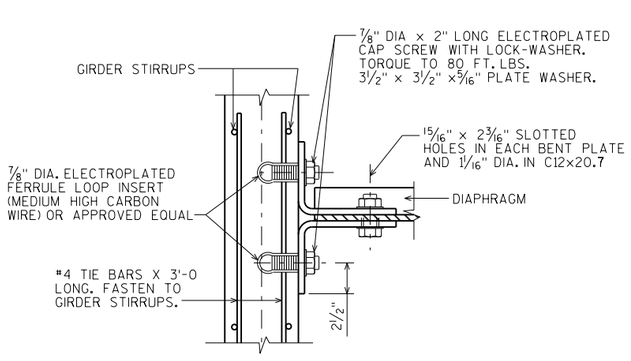


DETAIL C

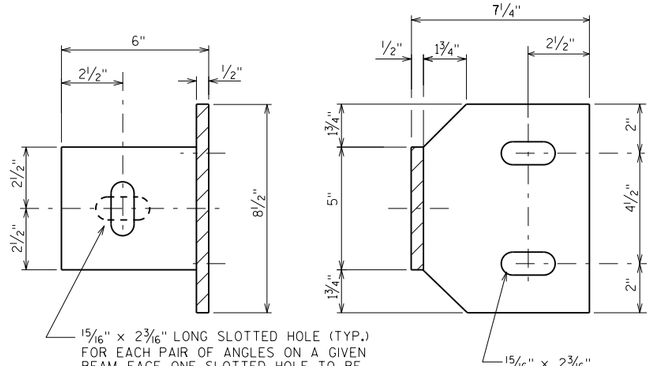
DETAIL B



SECTION AT INTERIOR GIRDERS THRU DIAPHRAGM FOR SKEW ANGLES > 10°

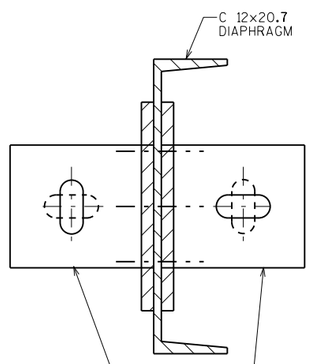


SECTION A-A
(FOR EXTERIOR ATTACHMENT)



BEAM FACE

DIAPHRAGM FACE



ATTACHMENT TO CHANNEL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

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STEEL DIAPHRAGM

SHEET 11

329

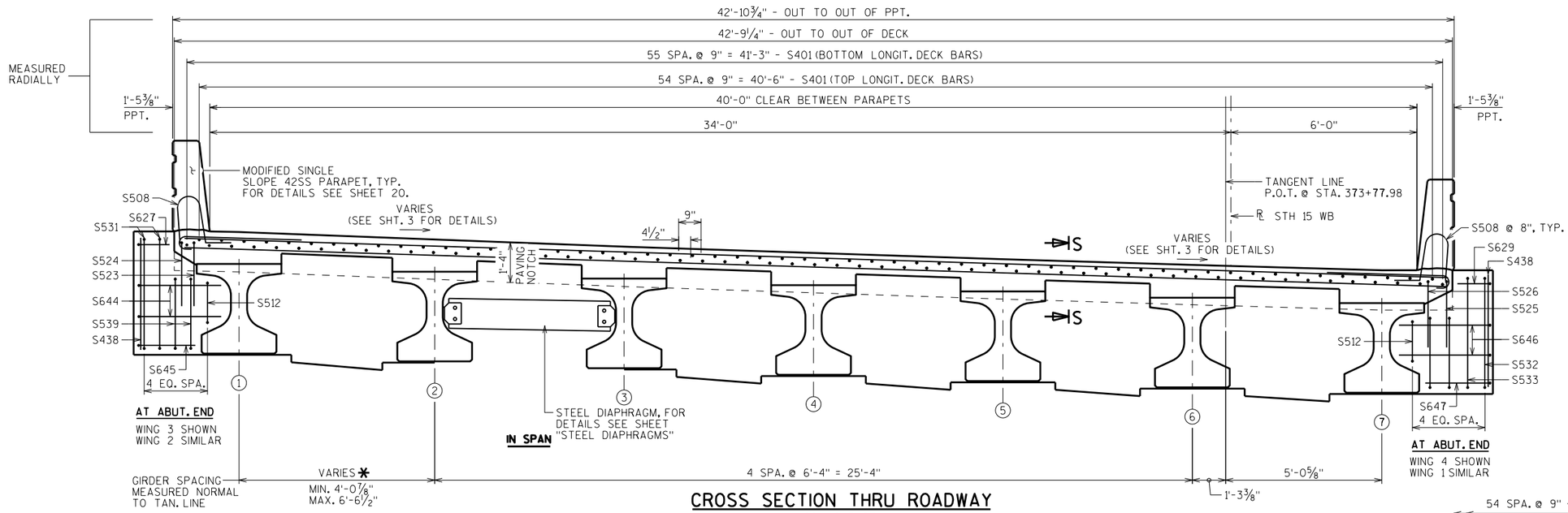
SCALE = 1.00

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STATE PROJECT NUMBER

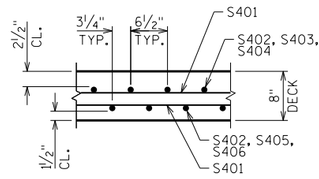
1146-75-71



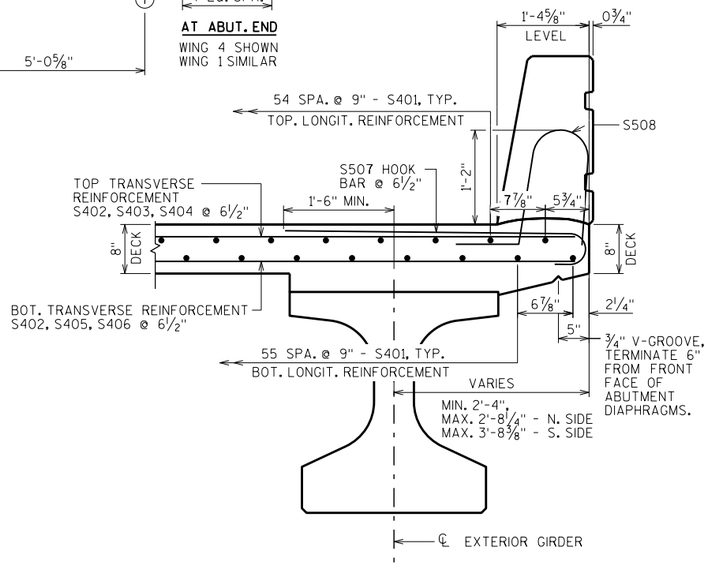
CROSS SECTION THRU ROADWAY

LOOKING EAST

✱ MEASURED FROM ℄ BRG AT ABUTMENTS, PERPENDICULAR TO GIRDER LINE (2)

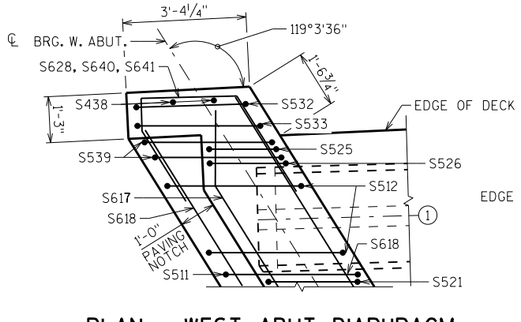


SECTION S-S



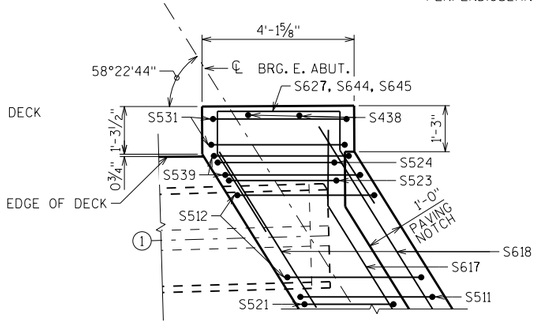
EDGE OF DECK DETAIL

(TYP. AT BOTH EDGES)



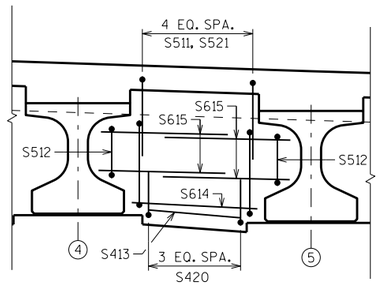
PLAN - WEST ABUT. DIAPHRAGM

WING 2 SHOWN



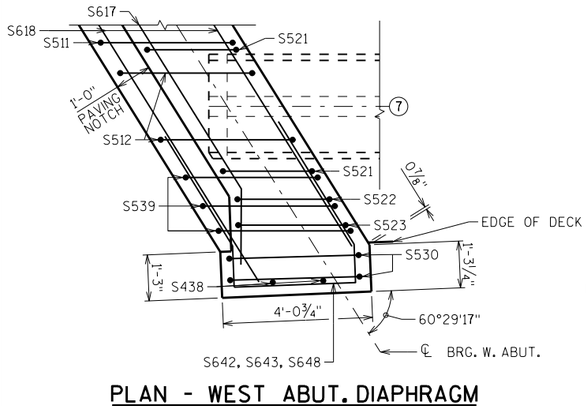
PLAN - EAST ABUT. DIAPHRAGM

WING 3 SHOWN



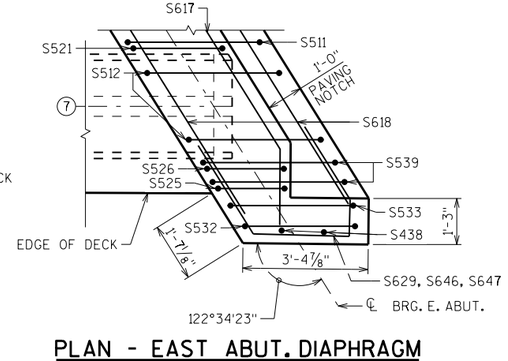
ABUT. DIAPHRAGM

(TYP. B/W GIRDERS 2-7)



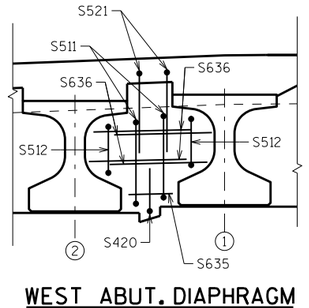
PLAN - WEST ABUT. DIAPHRAGM

WING 1 SHOWN



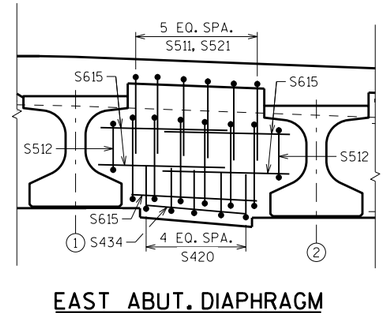
PLAN - EAST ABUT. DIAPHRAGM

WING 4 SHOWN



WEST ABUT. DIAPHRAGM

(B/W GIRDERS 1-2)



EAST ABUT. DIAPHRAGM

(B/W GIRDERS 1-2)

◯ INDICATES GIRDER NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D. ABS

SUPERSTRUCTURE CROSS SECTION

SHEET 12

330

SCALE = 2.00

8

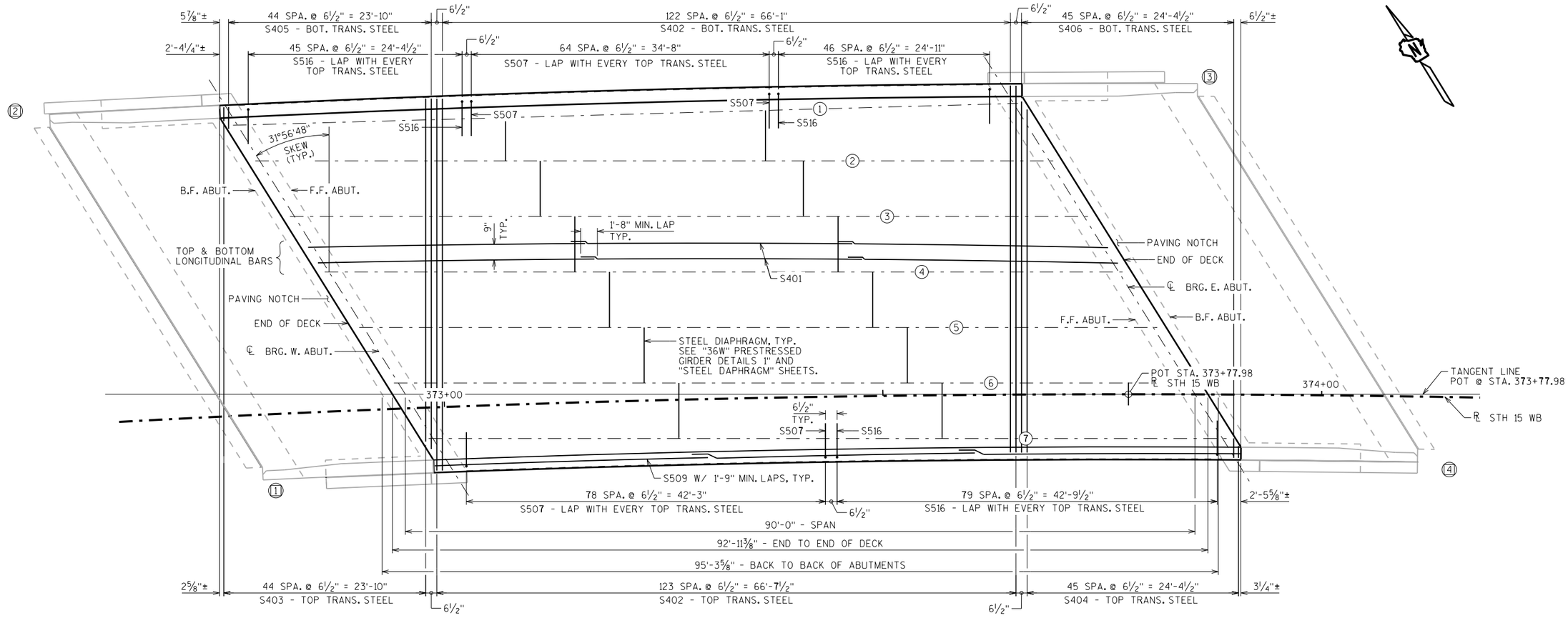
8

STATE PROJECT NUMBER

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(1) INDICATES WING NUMBER

(1) INDICATES GIRDER NUMBER



PLAN

(MEASUREMENTS TAKEN ALONG TANGENT LINE UNLESS OTHERWISE NOTED)

TOP OF DECK ELEVATIONS

EOD = EDGE OF DECK

	℄ BRG. W. ABUT	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	℄ BRG. E. ABUT.
NORTH EOD	810.93	811.18	811.43	811.68	811.93	812.18	812.43	812.68	812.93	813.18	813.41
N. GUTTER	810.95	811.20	811.45	811.70	811.95	812.20	812.45	812.70	812.95	813.20	813.42
℄ GIRDER 1	810.92	811.16	811.40	811.65	811.89	812.14	812.40	812.65	812.90	813.16	813.39
℄ GIRDER 2	810.76	810.99	811.23	811.47	811.71	811.95	812.19	812.44	812.69	812.94	813.14
℄ GIRDER 3	810.52	810.75	810.99	811.23	811.47	811.71	811.96	812.21	812.46	812.70	812.90
℄ GIRDER 4	810.28	810.52	810.75	810.99	811.24	811.48	811.73	811.98	812.23	812.46	812.69
℄ GIRDER 5	810.04	810.28	810.52	810.76	811.01	811.25	811.50	811.75	812.00	812.24	812.48
℄ GIRDER 6	809.80	810.04	810.28	810.53	810.77	811.02	811.27	811.52	811.78	812.03	812.29
TANGENT	809.75	809.99	810.24	810.48	810.73	810.98	811.23	811.48	811.73	811.99	812.25
℄ 'WB'	809.69	809.95	810.20	810.46	810.72	810.97	811.23	811.48	811.74	811.99	812.25
℄ GIRDER 7	809.56	809.81	810.05	810.29	810.54	810.79	811.04	811.30	811.57	811.84	812.11
S. GUTTER	809.47	809.73	809.99	810.24	810.50	810.76	811.01	811.27	811.54	811.81	812.08
SOUTH EOD	809.50	809.75	810.01	810.27	810.52	810.78	811.04	811.30	811.57	811.84	812.11

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D. ABS

SUPERSTRUCTURE

SHEET 13

331

SCALE = 6.00

8

8

STATE PROJECT NUMBER

1146-75-71

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S401	X	345	32'-0"			DECK - TOP & BOT. HORIZ. - LONGIT.
S402	X	247	42'-5"			DECK - TOP & BOT. HORIZ. - TRANS.
S403	X	45	20'-9"		⚠	DECK - TOP HORIZ. - TRANS. - WEST END
S404	X	46	20'-11		⚠	DECK - TOP HORIZ. - TRANS. - EAST END
S405	X	45	21'-3"		⚠	DECK - BOT. HORIZ - TRANS. - WEST END
S406	X	46	21'-4"		⚠	DECK - BOT. HORIZ. - TRANS. - EAST END
S507	X	144	5'-7"	X		DECK - TOP - TRANS. - HOOK
S508	X	273	4'-5"	X		PARAPET/DECK - VERT. - TRANS.
S509	X	36	31'-10"			PARAPET - HORIZ. - LONGIT.
S510	X	275	6'-8"	X		PARAPET - VERT. - TRANS.
S511	X	58	12'-11"	X		ABUT. DIAPHRAGM - STIRRUP - BTWN. GIRD
S512	X	28	11'-0"	X		ABUT. DIAPHRAGM - STIRRUP - AT GIRDERS
S413	X	20	2'-11"			ABUT. DIAPHRAGM - BTWN. GIRDERS 2-7
S614	X	10	4'-1"			ABUT. DIAPHRAGM - BTWN. GIRDERS 2-7
S615	X	45	4'-4"			ABUT. DIAPHRAGM - BTWN. GIRDERS
S516	X	173	4'-7"	X		DECK - TOP - TRANS. - HOOK
S617	X	4	27'-9"	X		ABUT. DIAPHRAGM AT PAVING NOTCH
S618	X	8	27'-2"			ABUT. DIAPHRAGM AT B.F. & TOP
S519	X	2	5'-2"	X		PARAPET/DECK - VERT. - TRANS.
S420	X	46	3'-7"	X		ABUT. DIAPHRAGM - BTWN. GIRDERS
S521	X	59	7'-10"	X		ABUT. DIAPHRAGM - BTWN GIRDERS
S522	X	1	7'-11"	X		ABUT. DIAPHRAGM ENDS - WING 1 - VERT
S523	X	2	8'-4"	X		ABUT. DIAPHRAGM ENDS - WINGS 1 & 3
S524	X	1	8'-7"	X		ABUT. DIAPHRAGM ENDS - WING 3 - VERT
S525	X	2	7'-1"	X		ABUT. DIAPHRAGM ENDS - WINGS 2 & 4
S526	X	2	7'-5"	X		ABUT. DIAPHRAGM ENDS - WINGS 2 & 4
S627	X	1	6'-3"	X		ABUT. DIAPHRAGM ENDS - WINGS 3
S628	X	1	5'-7"	X		ABUT. DIAPHRAGM ENDS - WING 2 - HORIZ.
S629	X	1	5'-9"	X		ABUT. DIAPHRAGM ENDS - WING 4 - HORIZ.
S530	X	2	15'-7"	X		ABUT. DIAPHRAGM ENDS - WING 1 - VERT
S531	X	2	15'-9"	X		ABUT. DIAPHRAGM ENDS - WING 3 - VERT
S532	X	2	14'-7"	X		ABUT. DIAPHRAGM ENDS - WINGS 2 & 4
S533	X	2	15'-2"	X		ABUT. DIAPHRAGM ENDS - WINGS 2 & 4
S434	X	2	3'-2"			E. ABUT. DIAPHRAGM BTWN GIRD 1 & 2
S635	X	1	1'-6"			W. ABUT. DIAPHRAGM BTWN GIRD 1 & 2
S636	X	4	3'-0"			W. ABUT. DIAPHRAGM BTWN GIRD 1 & 2
S537	X	28	6'-0"			ABUT. DIAPHRAGM THRU GIRDERS - HORIZ.
S438	X	8	3'-9"			ABUT. DIAPHRAGM ENDS - VERT
S539	X	9	13'-0"	X		ABUT. DIAPHRAGM ENDS - STIRRUP
S640	X	2	10'-9"	X		ABUT. DIAPHRAGM ENDS - WING 2 - HORIZ.
S641	X	1	9'-6"	X		ABUT. DIAPHRAGM ENDS - WING 2 - HORIZ.
S642	X	2	13'-0"	X		ABUT. DIAPHRAGM ENDS - WING 1 - HORIZ.
S643	X	1	11'-10"	X		ABUT. DIAPHRAGM ENDS - WING 1 - HORIZ.
S644	X	2	11'-4"	X		ABUT. DIAPHRAGM ENDS - WING 3 - HORIZ.
S645	X	1	10'-2"	X		ABUT. DIAPHRAGM ENDS - WING 3 - HORIZ.
S646	X	2	11'-0"	X		ABUT. DIAPHRAGM ENDS - WING 4 - HORIZ.
S647	X	1	9'-10"	X		ABUT. DIAPHRAGM ENDS - WING 4 - HORIZ.
S648	X	1	6'-3"	X		ABUT. DIAPHRAGM ENDS - WING 1 - HORIZ.
SS901		85	5'-0"	X		ABUT. DIAPH./APPROACH SLAB TIE

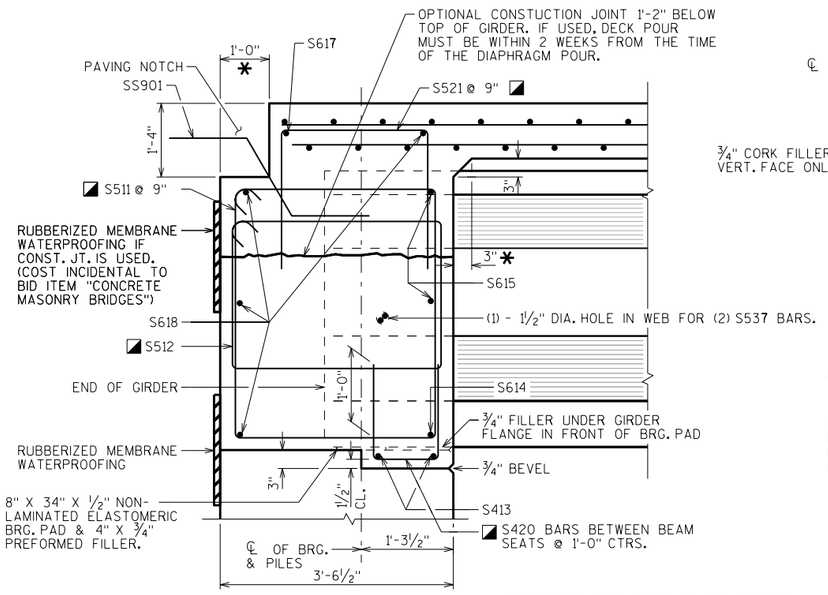
⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

STAINLESS STEEL REINFORCEMENT

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
S403	1 SERIES OF 45	1'-1" TO 40'-4"
S404	1 SERIES OF 46	1'-4" TO 40'-5"
S405	1 SERIES OF 45	1'-7" TO 40'-10"
S406	1 SERIES OF 46	1'-9" TO 40'-10"

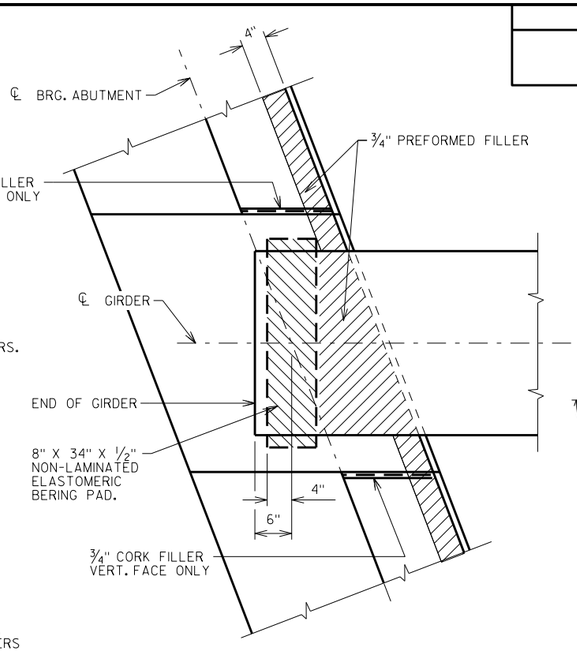
BUNDLE AND TAG EACH SERIES SEPARATELY.



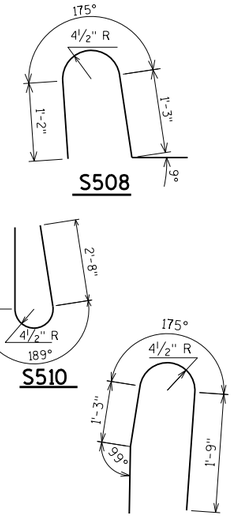
BARS PLACED PARALLEL TO GIRDERS. SPACING PERPENDICULAR TO ℄ GIRDERS

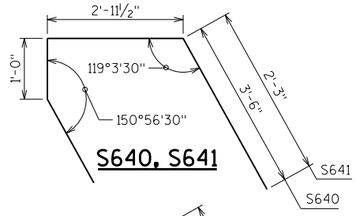
✱ DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS

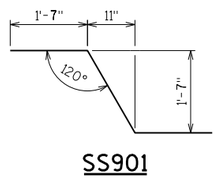
PART. LONGIT. SECTION

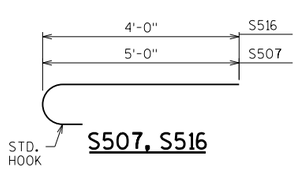


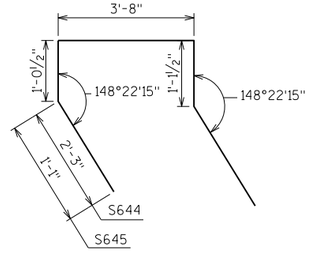
ABUTMENT BEARING PAD DETAIL

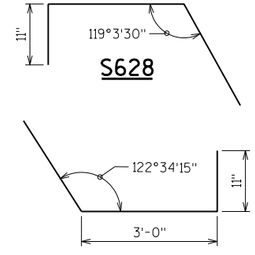


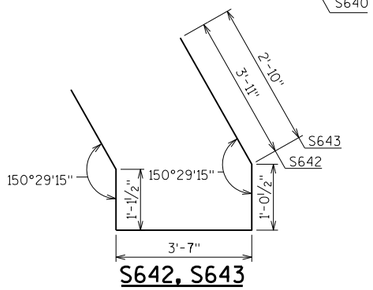


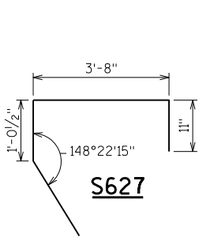


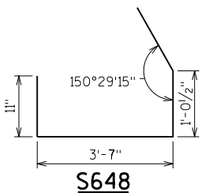


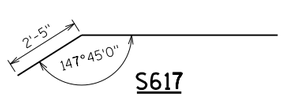


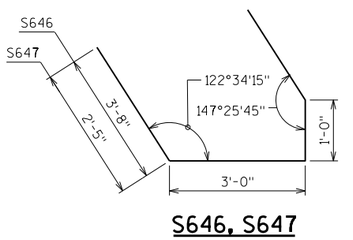


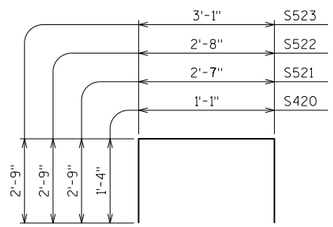


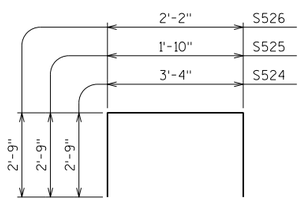


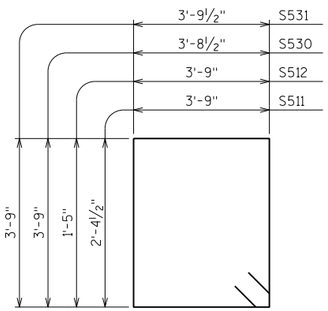


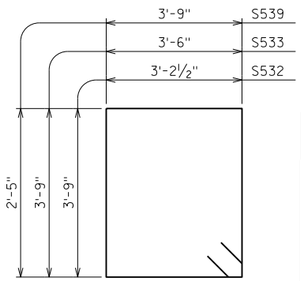












NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D. ABS

SUPERSTRUCTURE BAR DETAILS

SHEET 14

332

SCALE = 1.00

8

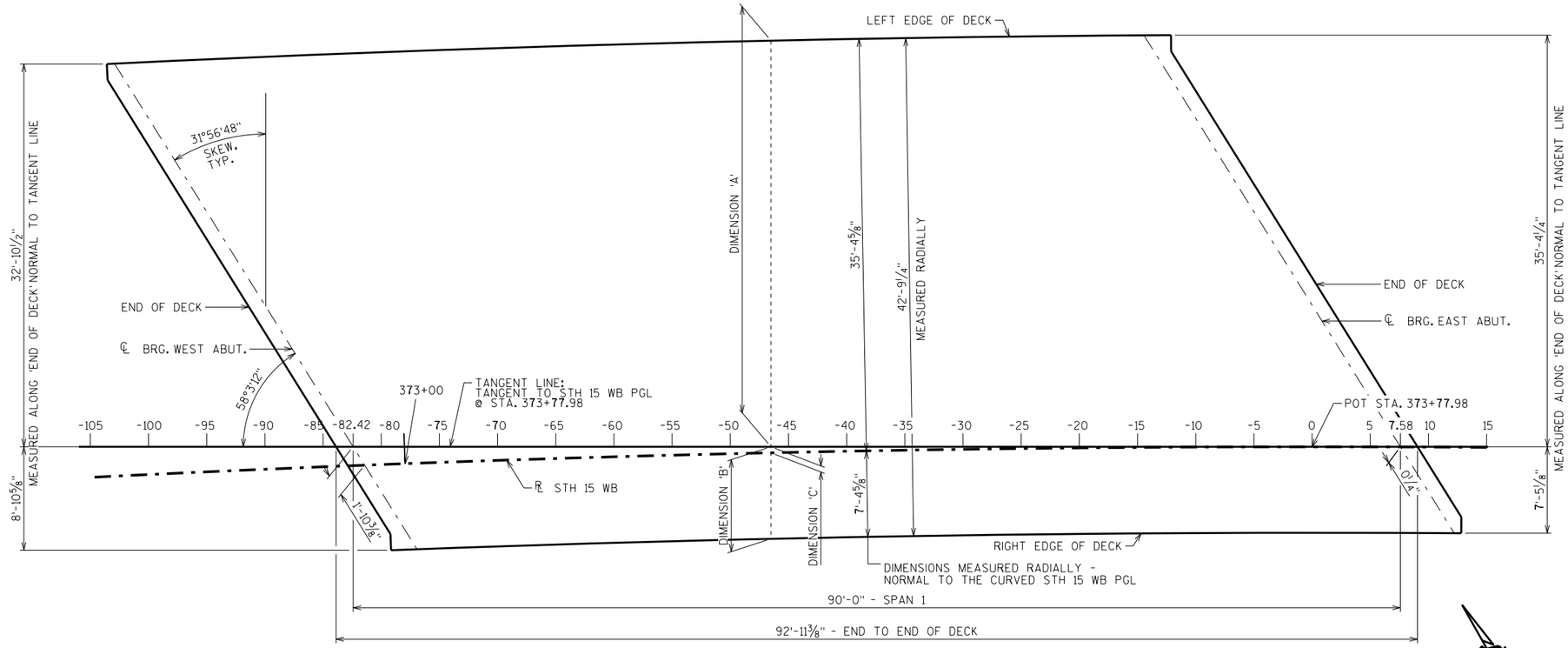
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STATE PROJECT NUMBER

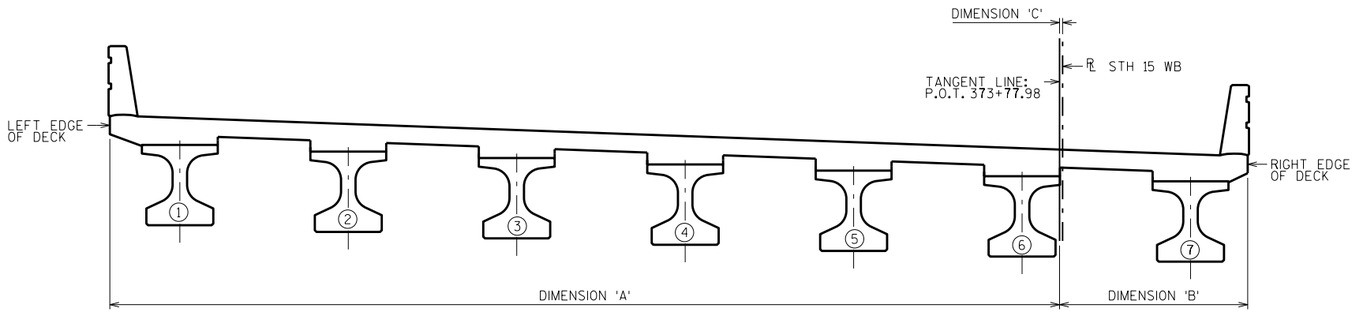
1146-75-71

TABLE OF TAN. OFFSETS

DIST.	A	B	C
-105	——	——	2'-7½"
-100	33'-0½"	——	2'-4⅝"
-95	33'-3¼"	——	2'-1¾"
-90	33'-5⅞"	——	1'-11⅛"
-85	33'-8⅜"	——	1'-8⅝"
-82.42	33'-9½"	——	1'-7⅜"
-80	33'-10⅝"	——	1'-6¼"
-75	34'-0⅞"	8'-8¾"	1'-4⅛"
-70	34'-2⅞"	8'-6⅝"	1'-2"
-65	34'-4¾"	8'-4¾"	1'-0⅛"
-60	34'-6½"	8'-3"	10¼"
-55	34'-8⅛"	8'-1¼"	8⅝"
-50	34'-9⅝"	7'-11¾"	7⅛"
-45	34'-10⅞"	7'-10⅜"	5¾"
-40	35'-0⅛"	7'-9¼"	4⅝"
-35	35'-1⅛"	7'-8⅛"	3½"
-30	35'-2⅛"	7'-7¼"	2⅝"
-25	35'-2⅞"	7'-6⅜"	1¾"
-20	35'-3½"	7'-5¾"	1⅛"
-15	35'-4"	7'-5¼"	0⅝"
-10	——	7'-4⅞"	0¼"
-5	——	7'-4¾"	0⅛"
0	——	7'-4⅝"	0"
5	——	7'-4¾"	0⅛"
7.58	——	7'-4¾"	0⅛"
10	——	7'-4⅞"	0¼"
15	——	——	0⅝"



PLAN



CROSS SECTION THRU BRIDGE LOOKING EAST

(HORIZONTAL DIMENSIONS ARE MEASURED NORMAL TO THE TANGENT LINE.)

NOTE: DIMENSION 'A' = DISTANCE BETWEEN THE 'TANGENT LINE' AND THE LEFT 'EDGE OF DECK'.

DIMENSION 'B' = DISTANCE BETWEEN THE 'TANGENT LINE' AND THE RIGHT 'EDGE OF DECK'.

DIMENSION 'C' = DISTACE BETWEEN THE 'TANGENT LINE' AND ℄ STH 15 WB.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

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DECK LAYOUT

SHEET 15

333

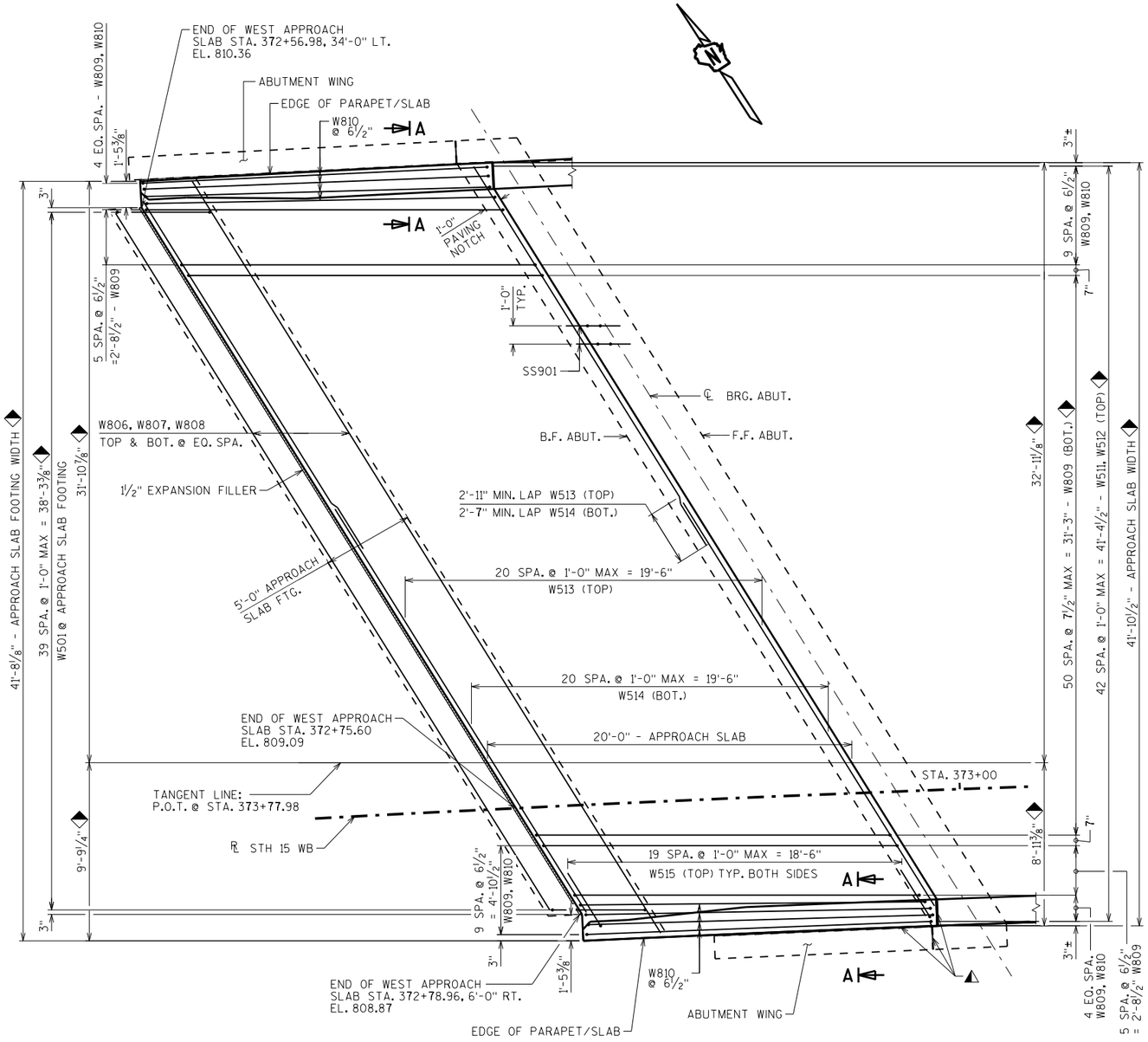
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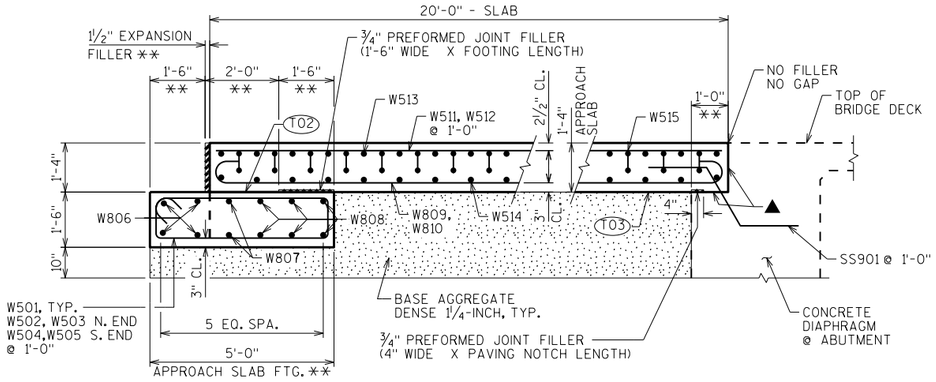
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STATE PROJECT NUMBER

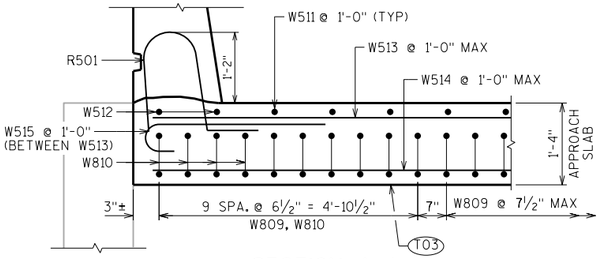
1146-75-71



PLAN



SECTION THRU APPROACH SLAB



SECTION A-A

◆ MEASURED NORMAL TO TANGENT

** MEASURED NORMAL TO ABUTMENT

▲ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING, GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

▲ APPLY PROTECTIVE SURFACE TREATMENT TO PAVING NOTCH PRIOR TO POURING STRUCTURAL APPROACH SLAB.

(T02) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF FOOTING.

(T03) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF SUBGRADE BENEATH SLAB.

DESIGN DATA

ALLOWABLE SOIL BEARING PRESSURE:	2,000 P.S.F.
CONCRETE STRENGTH f'c:	4,000 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60, fy:	60,000 P.S.I.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D. ABS

W. STRUCTURAL APPROACH SLAB

SHEET 16

334

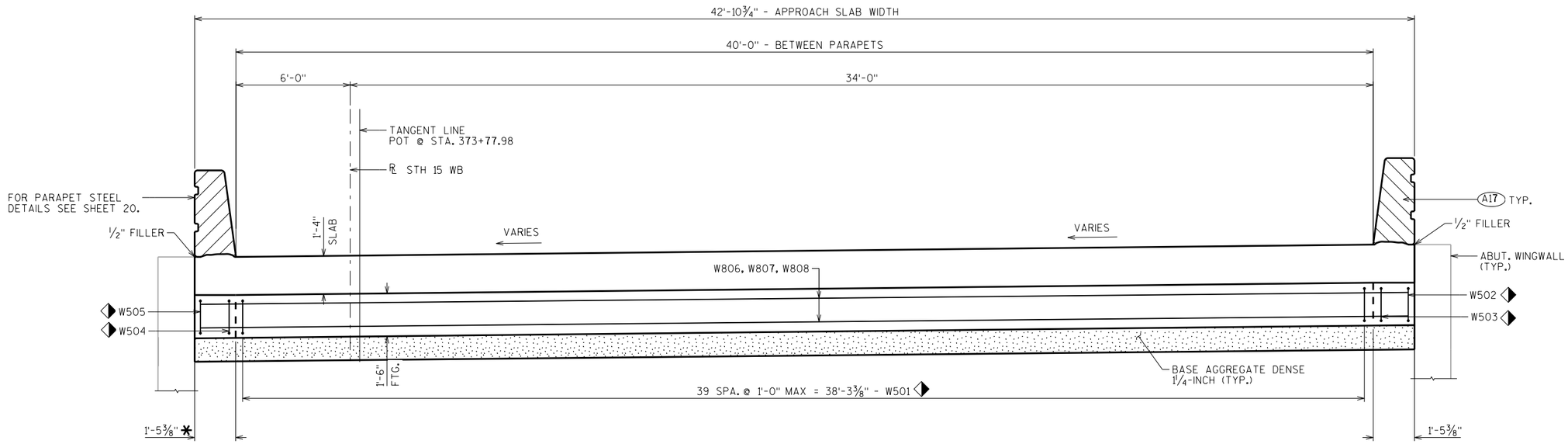
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8

STATE PROJECT NUMBER

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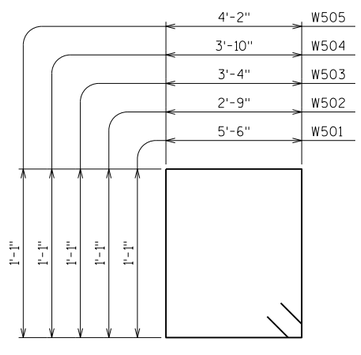
CROSS SECTION THRU ROADWAY - LOOKING WEST

(MEASUREMENTS TAKEN NORMAL TO ℄ STH 15 WB, SHOWING FOOTING STEEL ONLY)

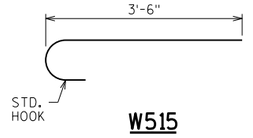
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

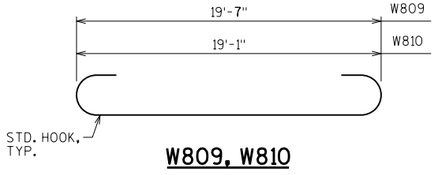
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
W501	X	40	13'-10"	X		APPROACH SLAB FTG. - STIRRUP
W502	X	1	8'-4"	X		APPROACH SLAB FTG. - STIR. NORTH END
W503	X	1	9'-6"	X		APPROACH SLAB FTG. - STIR. NORTH END
W504	X	1	10'-6"	X		APPROACH SLAB FTG. - STIR. SOUTH END
W505	X	1	11'-2"	X		APPROACH SLAB FTG. - STIR. SOUTH END
W806	X	4	45'-1"			APPROACH SLAB FTG. - TRANS.
W807	X	2	47'-7"			APPROACH SLAB FTG. - TRANS.
W808	X	6	48'-6"			APPROACH SLAB FTG. - TRANS.
W809	X	63	21'-5"	X		APPROACH SLAB - LONG. - BOT.
W810	X	8	20'-11"	X		APPROACH SLAB - LONG. - BOT. - AT PPT.
W511	X	39	19'-7"			APPROACH SLAB - LONG. - TOP
W512	X	4	19'-1"			APPROACH SLAB - LONG. - TOP - AT PPT.
W513	X	42	25'-11"			APPROACH SLAB - TRANS. - TOP
W514	X	42	25'-8"			APPROACH SLAB - TRANS. - BOT.
W515	X	40	4'-1"	X		APPROACH SLAB - TRANS. - TOP - WING



W501, W502, W503, W504, W505



W515



W809, W810

A17 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

* NOTCH FOR THRIE BEAM POST

◆ BARS PLACED PARALLEL TO TAN. LINE SPACING PERPENDICULAR TO TAN. LINE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

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W. STRUCT. APP. SLAB DETAILS

SHEET 17

335

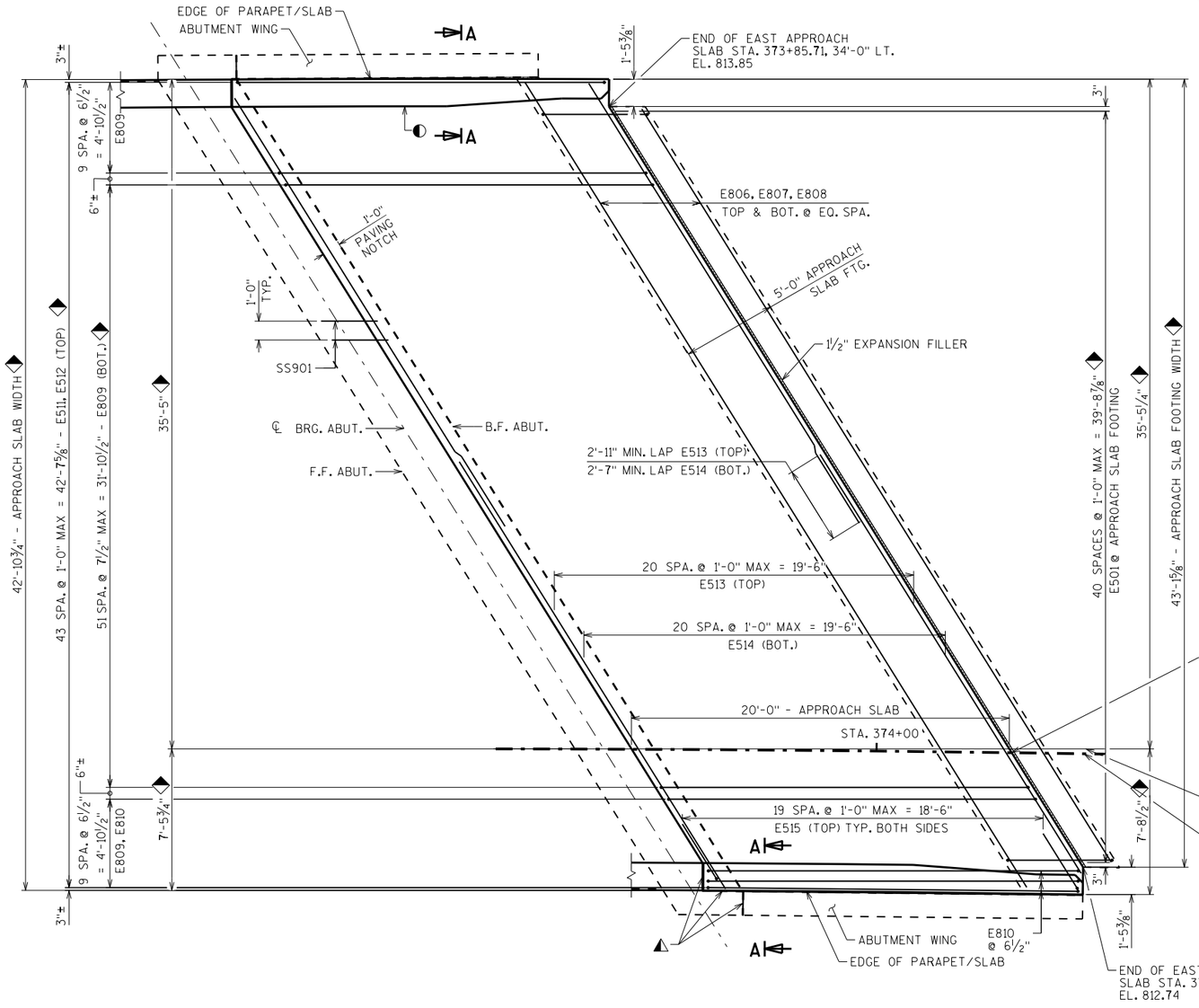
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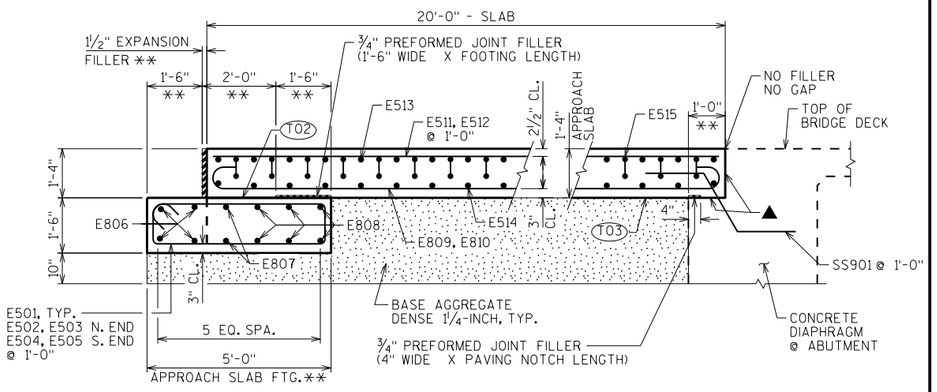
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8

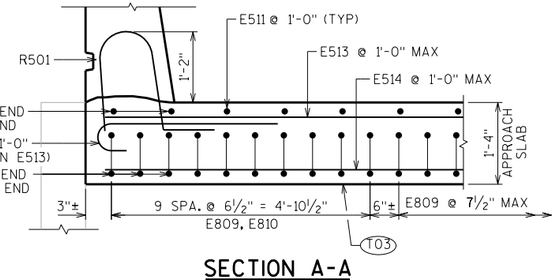
STATE PROJECT NUMBER

1146-75-71





SECTION THRU APPROACH SLAB



SECTION A-A

◆ MEASURED NORMAL TO TANGENT LINE

** MEASURED NORMAL TO ABUTMENT

◭ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING, GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

▲ APPLY PROTECTIVE SURFACE TREATMENT TO PAVING NOTCH PRIOR TO POURING STRUCTURAL APPROACH SLAB.

◐ SEE PARAPET STANDARD DETAILS FOR LOCATION OF NAMEPLATE AND BENCH MARK WITH RESPECT TO THE END OF PARAPET.

(T02) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF FOOTING.

(T03) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF SUBGRADE BENEATH SLAB.

DESIGN DATA

ALLOWABLE SOIL BEARING PRESSURE:	2,000 P.S.F.
CONCRETE STRENGTH f'c:	4,000 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60, fy:	60,000 P.S.I.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D. ABS

E. STRUCTURAL APPROACH SLAB

SHEET 18

336

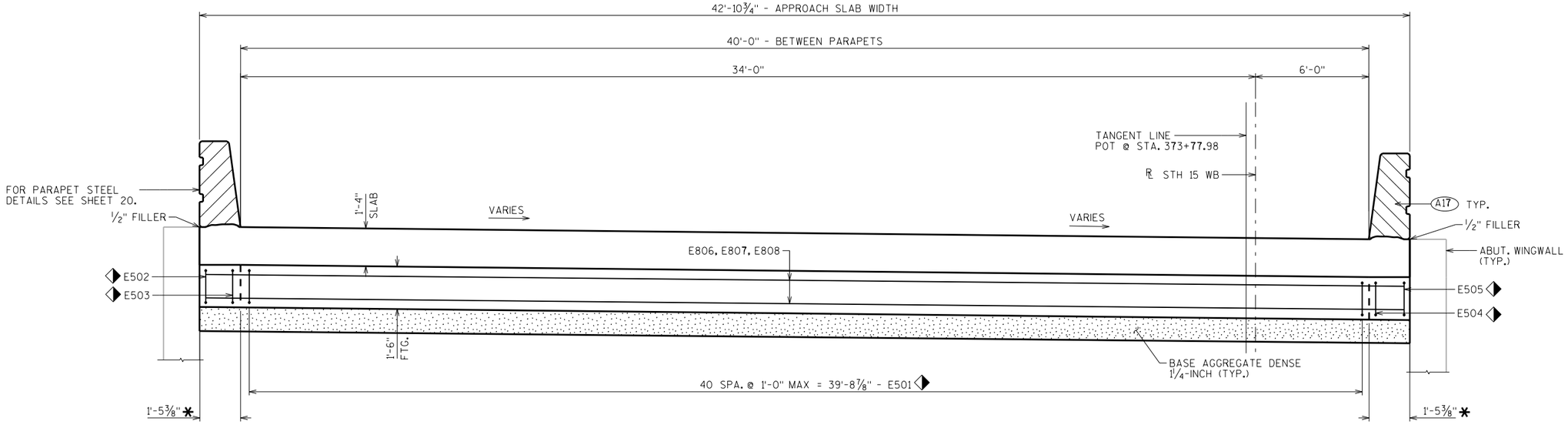
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8

8

STATE PROJECT NUMBER

1146-75-71



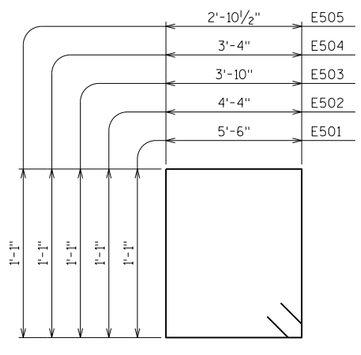
CROSS SECTION THRU ROADWAY - LOOKING EAST

(MEASUREMENTS TAKEN NORMAL TO ℄ STH 15 WB, SHOWING FOOTING STEEL ONLY)

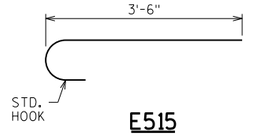
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

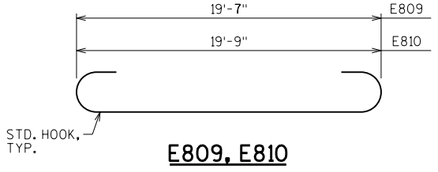
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
E501	X	41	13'-10"	X		APPROACH SLAB FTG. - STIRRUP
E502	X	1	11'-6"	X		APPROACH SLAB FTG. - STIR. NORTH END
E503	X	1	10'-6"	X		APPROACH SLAB FTG. - STIR. NORTH END
E504	X	1	9'-6"	X		APPROACH SLAB FTG. - STIR. SOUTH END
E505	X	1	8'-7"	X		APPROACH SLAB FTG. - STIR. SOUTH END
E806	X	4	46'-10"			APPROACH SLAB FTG. - TRANS.
E807	X	2	49'-4"			APPROACH SLAB FTG. - TRANS.
E808	X	6	50'-3"			APPROACH SLAB FTG. - TRANS.
E809	X	69	21'-5"	X		APPROACH SLAB - LONG. - BOT.
E810	X	3	21'-7"	X		APPROACH SLAB - LONG. - BOT. SOUTH END
E511	X	42	19'-7"			APPROACH SLAB - LONG. - TOP
E512	X	2	19'-9"			APPROACH SLAB - LONG. - TOP SOUTH END
E513	X	42	26'-8"			APPROACH SLAB - TRANS. - TOP
E514	X	42	26'-6"			APPROACH SLAB - TRANS. - BOT.
E515	X	40	4'-1"	X		APPROACH SLAB - TRANS. - TOP - WING



E501, E502, E503, E504, E505



E515



E809, E810

A17 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

* NOTCH FOR THRIE BEAM POST

◆ BARS PLACED PARALLEL TO TAN. LINE SPACING PERPENDICULAR TO TAN. LINE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D. ABS

E. STRUCT. APP. SLAB DETAILS

SHEET 19

337

SCALE = 3.00

8

8

STATE PROJECT NUMBER
1146-75-71

BILL OF BARS

FOR STRUCTURAL APPROACH SLAB PARAPETS

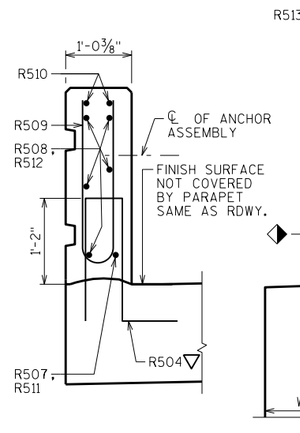
BAR MARK	COAT	W. APP. SLAB	E. APP. SLAB	LENGTH	BENT	BAR SERIES	LOCATION
▽ R501	X	33	33	4'-5"	X		PARAPET VERT.
R502	X	34	34	6'-8"	X		PARAPET VERT.
▽ R503	X	24	24	2'-9"	X		PARAPET VERT.
▽ R504	X	34	34	4'-4"	X		PARAPET VERT.
R505	X	10	10	6'-5"	X		PARAPET VERT.
R506	X	12	12	6'-6"	X		PARAPET VERT.
R507	X	2	—	19'-0"	X		PARAPET HORIZ.
R508	X	10	—	19'-0"			PARAPET HORIZ.
R509	X	12	12	5'-5"	X	◭	PARAPET VERT.
R510	X	4	—	19'-0"	X		PARAPET HORIZ.
R511	X	—	2	19'-7"	X		PARAPET HORIZ.
R512	X	—	10	19'-7"			PARAPET HORIZ.
R513	X	—	4	19'-7"	X		PARAPET HORIZ.
▽ R514	X	1	1	5'-2"	X		PARAPET VERT.

◭ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

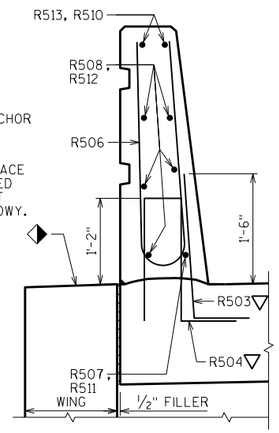
BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
R509	4 SERIES OF 6	4'-9" TO 6'-1"

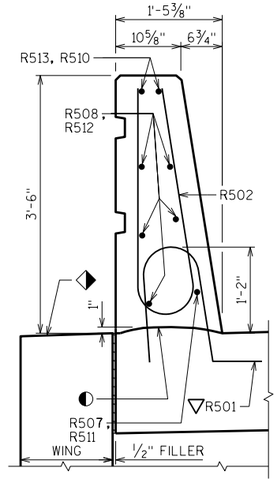
BUNDLE AND TAG EACH SERIES SEPARATELY.



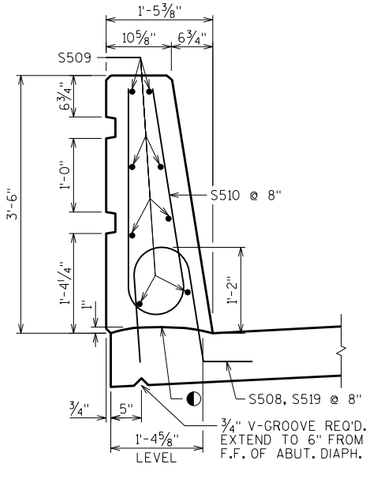
SECTION A-A



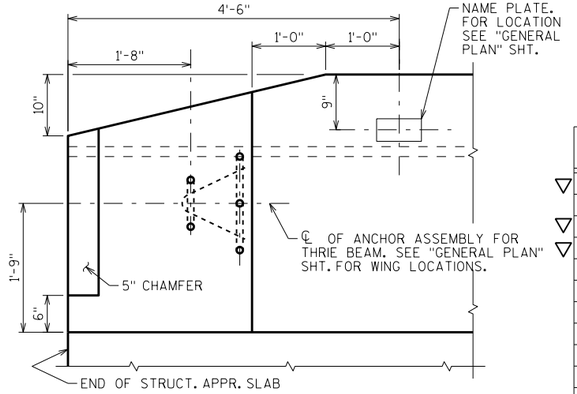
SECTION B-B



SECTION C-C

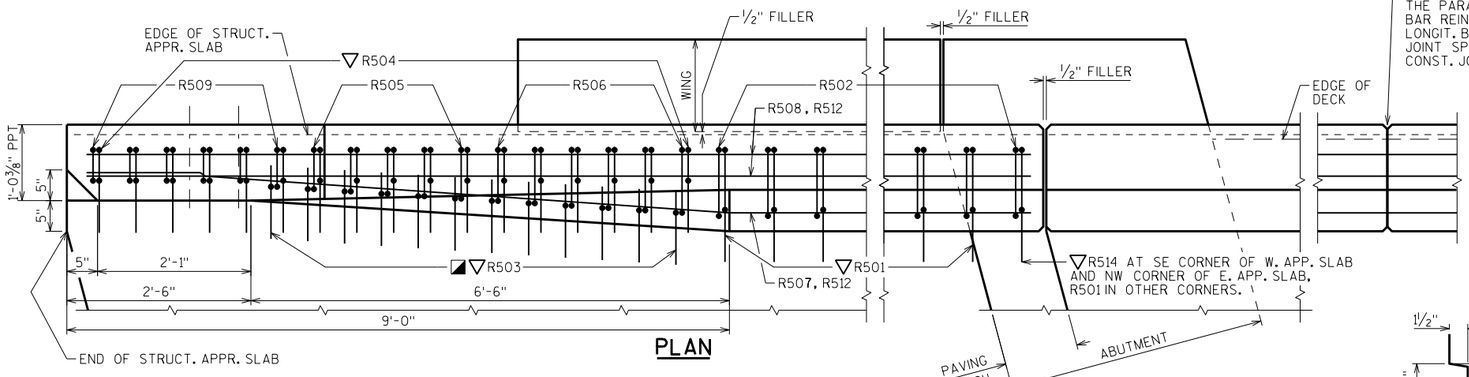


SECTION THRU PARAPET ON DECK

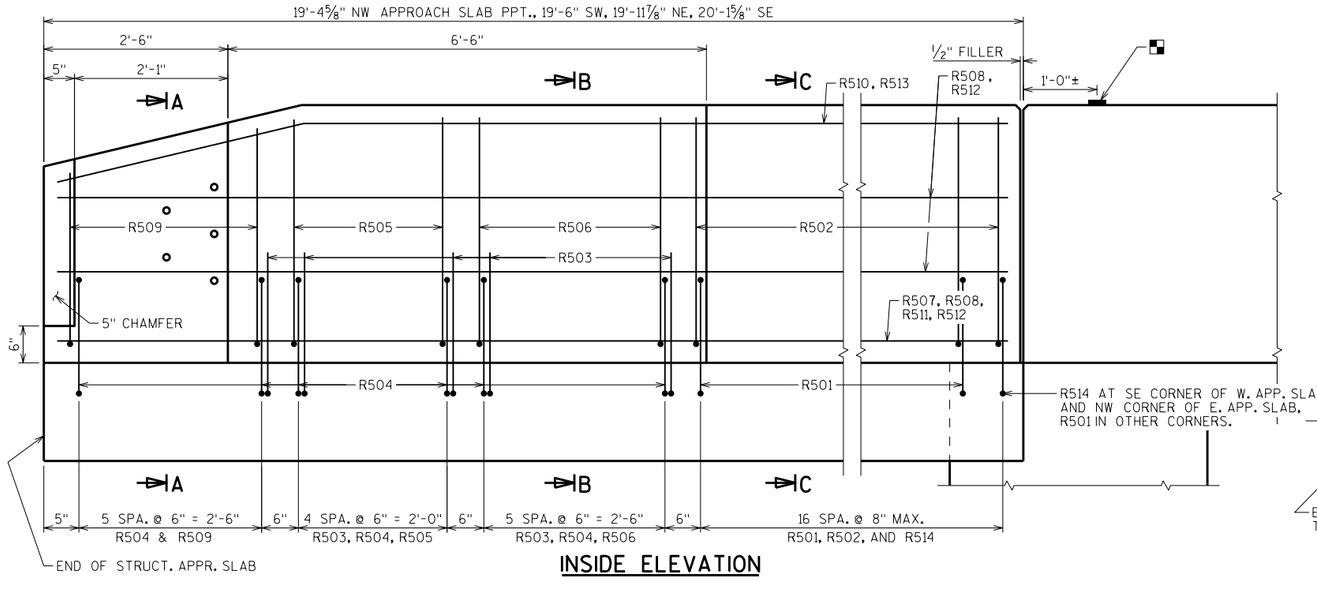


PARAPET END TREATMENT DETAIL

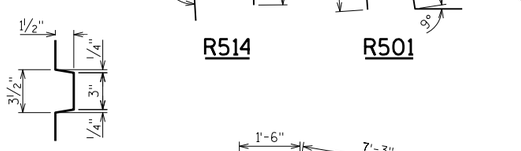
LOOKING AT INSIDE FACE OF PARAPET



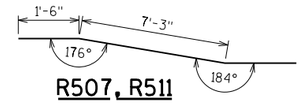
PLAN

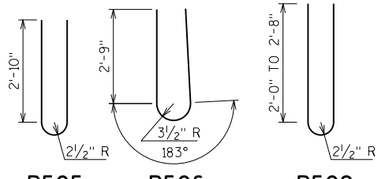


INSIDE ELEVATION



DETAIL A





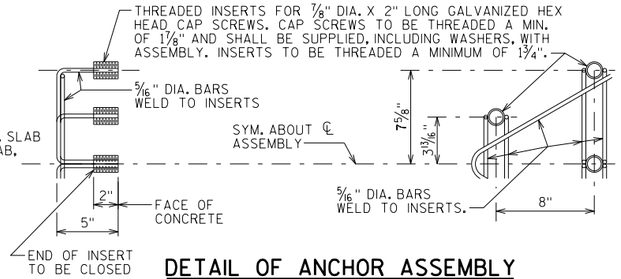
◐ CONST. JOINT - STRIKE OFF AS SHOWN

◆ SLOPE FOR DRAINAGE

◪ USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ R501, R503, R504, AND R514 BARS TO BE TIED TO STRUCTURAL APPROACH SLAB STEEL BEFORE STRUCTURAL APPROACH SLAB IS POURED.

◪ BENCH MARK CAP (WHEN SUPPLIED). AVOID PLACING A BENCH MARK CAP BELOW A RAIL OR FENCE SYSTEM THAT IS ATTACHED TO THE TOP OF THE PARAPET.



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY: SEW | PLANS CK'D.: ABS

MODIFIED SINGLE SLOPE PARAPET 42SS

SHEET 20

338

8

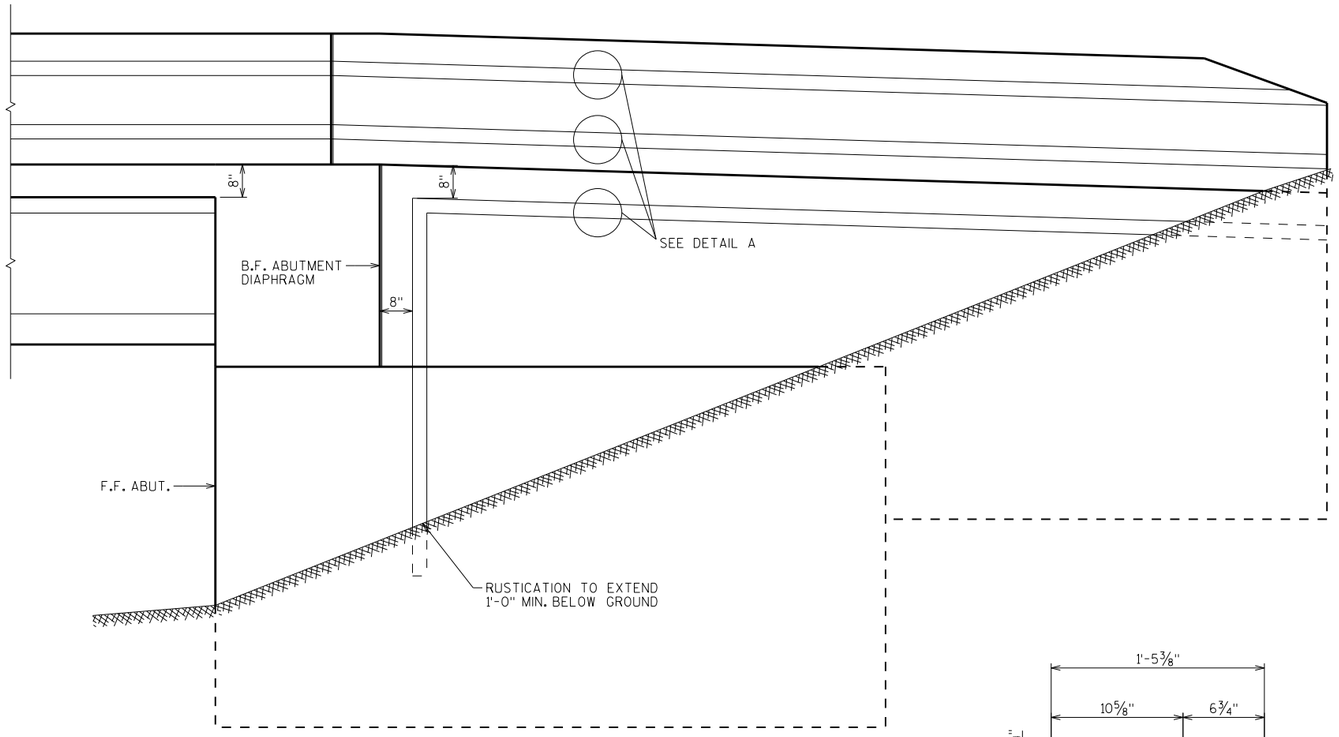
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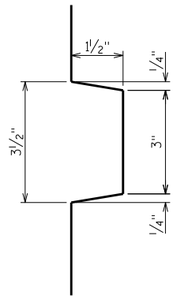
STATE PROJECT NUMBER

1146-75-71

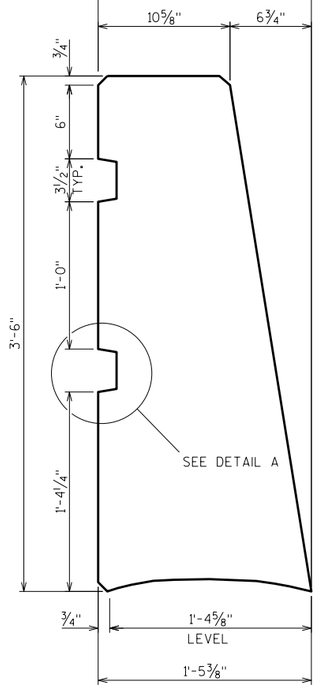
DOUBLE RUSTICATION LINES
MODIFIED 'SINGLE SLOPE PARAPET 42SS'
(AREA = 4.01 SF, WEIGHT = 602 LB/FT.)



WING WALL



DETAIL A



MODIFIED 42SS PARAPET

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D. ABS

AESTHETIC DETAILS

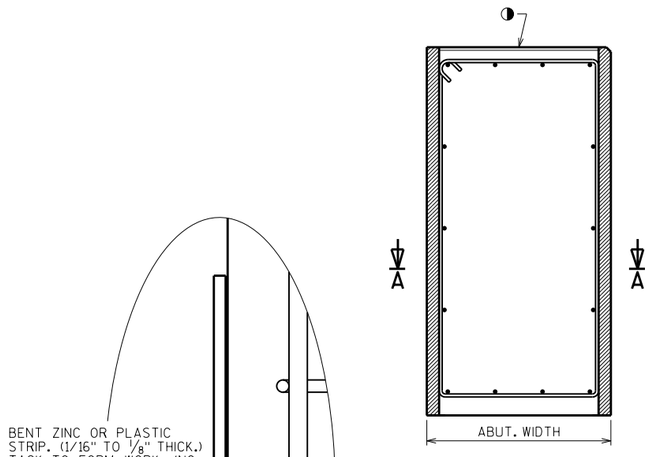
SHEET 21

339

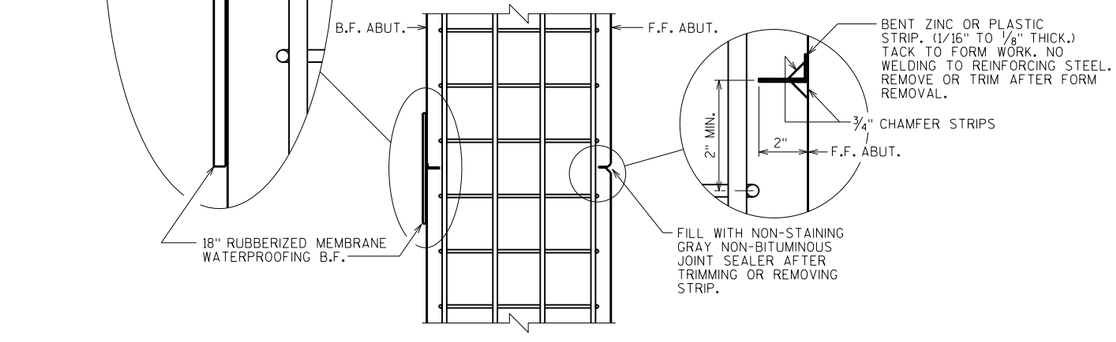
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STATE PROJECT NUMBER

1146-75-71



SECTION THRU ABUTMENT BODY



SECTION A-A

ALTERNATE CONSTRUCTION JOINT AT ABUTMENT

NOTES

PARTIAL ZINC OR PLASTIC BULKHEAD MAY BE USED AS ALTERNATE CONSTRUCTION JOINT, WITH THE PERMISSION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

VERTICAL CONSTRUCTION JOINT KEYWAY IS NOT REQUIRED WHEN USING ALTERNATE CONSTRUCTION JOINT.

CARE IS TO BE USED IN CASTING CONCRETE AROUND BULKHEAD TO PREVENT DISLOCATION OR MISALIGNMENT OF THE BULKHEAD.

SAW CUTTING JOINT IS NOT ALLOWED.

◑ USE A JOINT TOOL TO CONSTRUCT A CONTRACTION JOINT APPROXIMATELY 1/2" DEEP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D. ABS

ALTERNATE CONSTRUCTION JOINT

SHEET 22

340

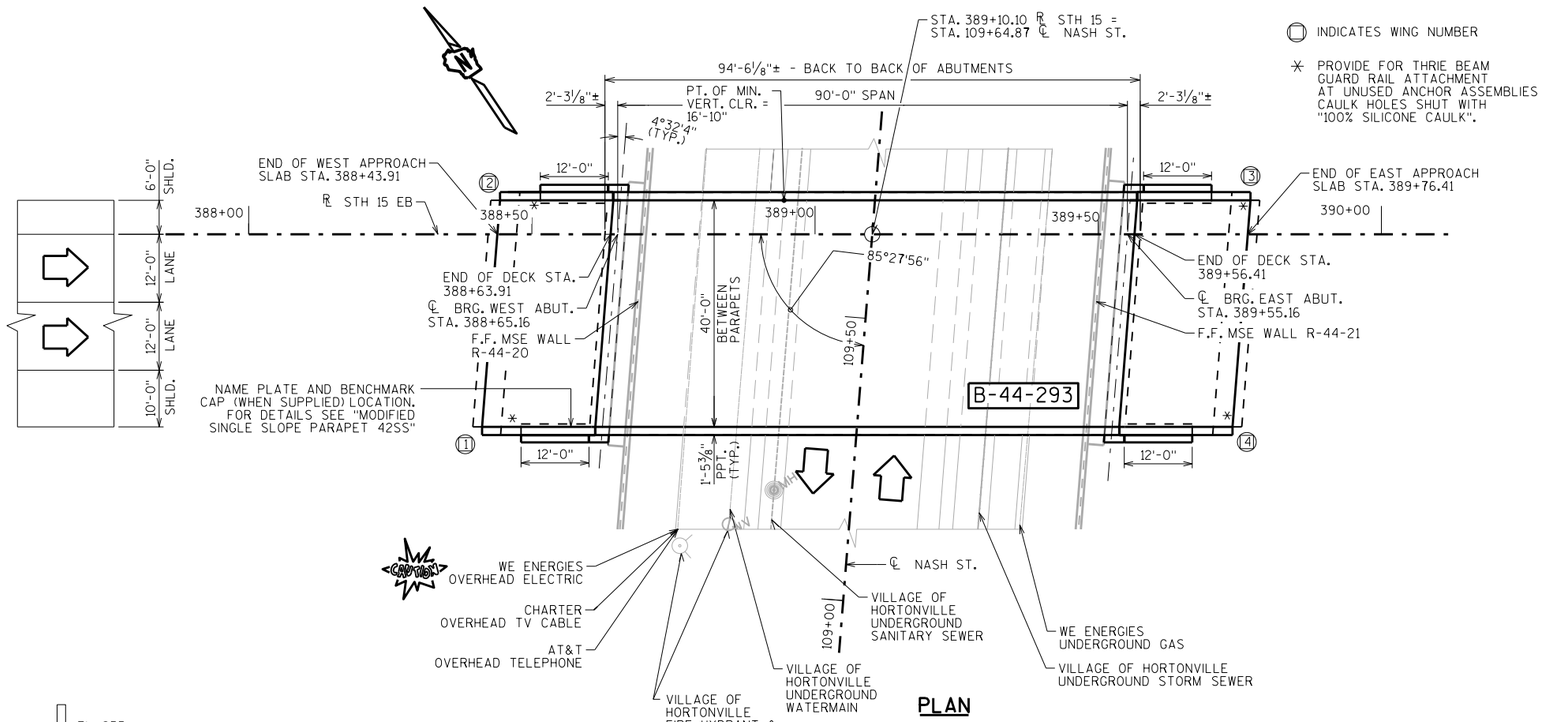
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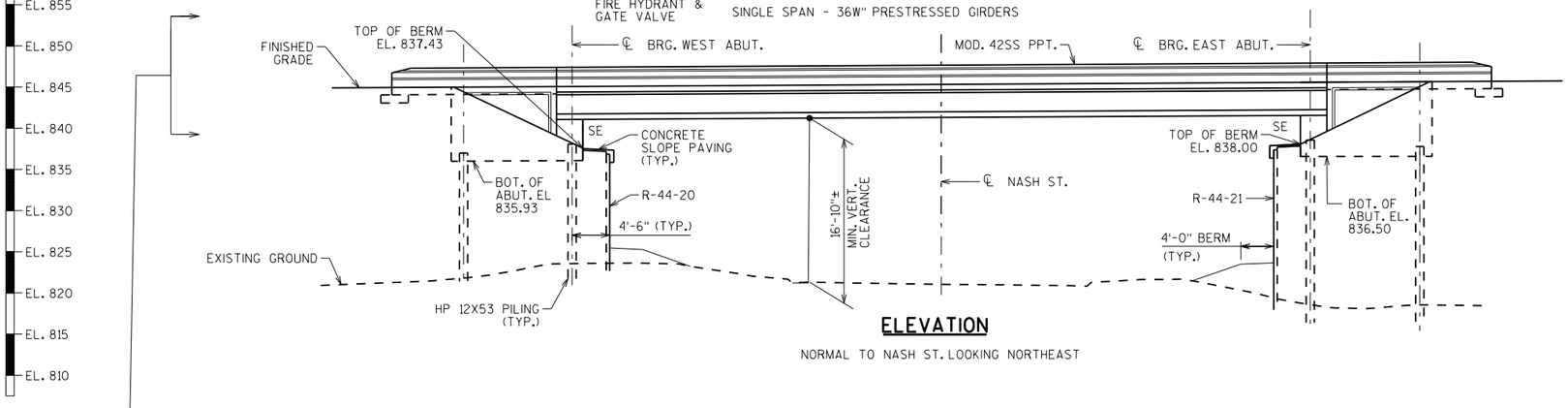
STATE PROJECT NUMBER

1146-75-71



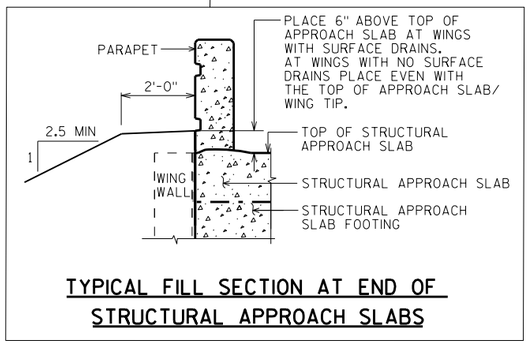
PLAN

SINGLE SPAN - 36W" PRESTRESSED GIRDERS

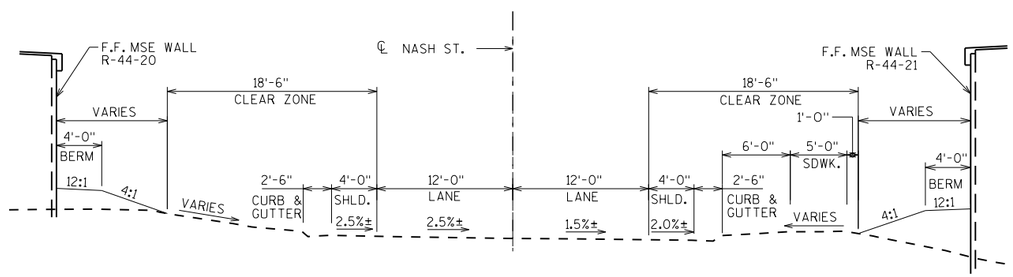


ELEVATION

NORMAL TO NASH ST. LOOKING NORTHEAST



TYPICAL FILL SECTION AT END OF STRUCTURAL APPROACH SLABS



TYPICAL SECTION THRU NASH ST.

NORMAL TO NASH ST. LOOKING NORTHEAST

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.10
OPERATING RATING FACTOR: RF = 1.60
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250(KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
SUPERSTRUCTURE & STRUCTURAL APPROACH SLAB — f'c = 4,000 P.S.I.
ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
GRADE 60 — fy = 60,000 P.S.I.
STAINLESS, GRADE 60 — fy = 60,000 P.S.I.

36W" PRESTRESSED GIRDERS:
CONCRETE MASONRY — f'c = 8,000 P.S.I.
STRANDS: 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

STRUCTURAL CARBON STEEL:
ASTM A709, GRADE 36 — Fy = 36,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 12X53 STEEL PILING
DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 220 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 25'-0" LONG AT THE WEST ABUTMENT, PILE POINTS REQUIRED.
ESTIMATED 30'-0" LONG AT THE EAST ABUTMENT, PILE POINTS REQUIRED.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

STH 15 EB
A.D.T.=15,000 (2040)
R.D.S.=60 M.P.H.

NASH ST.
A.D.T.=1,500 (2040)
R.D.S.=30 M.P.H.

STRUCTURE DESIGN CONTACTS:

JOHN SENDOR (608) 266-5163
DOMINIQUE BECHLE (608) 261-8205

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. SUBSURFACE EXPLORATION
4. WEST ABUTMENT
5. WEST ABUTMENT DETAILS
6. EAST ABUTMENT
7. EAST ABUTMENT DETAILS
8. 36W" PRESTRESSED GIRDER DETAILS 1
9. 36W" PRESTRESSED GIRDER DETAILS 2
10. STEEL DIAPHRAGM
11. SUPERSTRUCTURE
12. SUPERSTRUCTURE DETAILS
13. MODIFIED SINGLE SLOPE PARAPET 42SS
14. WEST STRUCTURAL APPROACH SLAB
15. EAST STRUCTURAL APPROACH SLAB

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED DMB 01/06/21
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-44-293

STH 15 EB OVER NASH ST.

COUNTY	VILLAGE
OUTAGAMIE	HORTONVILLE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
JJS	JRS	JJS	SEW

GENERAL PLAN

SHEET 1 OF 15

341

I.D. 1146-75-00BB DATE: JAN. 2021

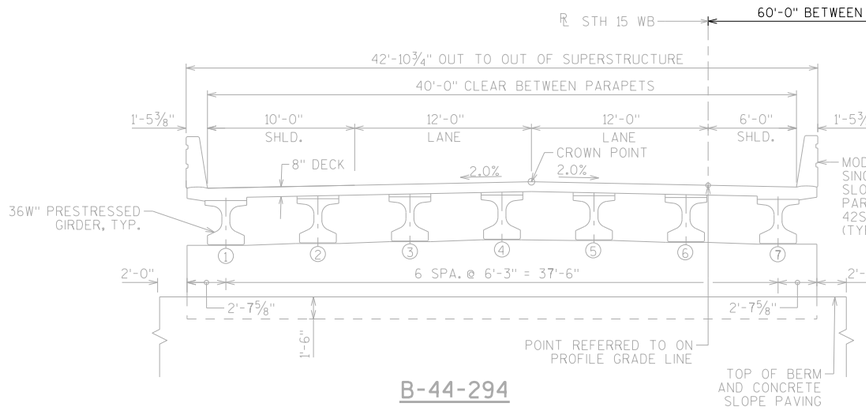
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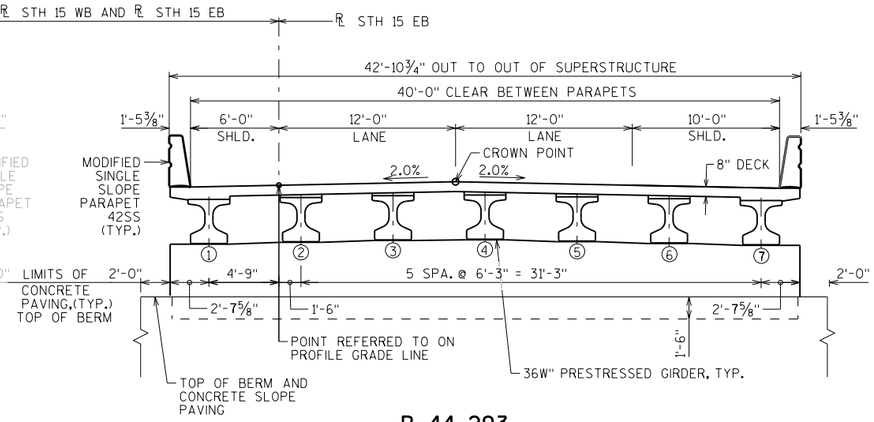
8

STATE PROJECT NUMBER

1146-75-71



B-44-294



B-44-293

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE TYPICAL SECTION SHOWN IN THE PLANS.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE AND THE TOP OF STRUCTURAL APPROACH SLABS.

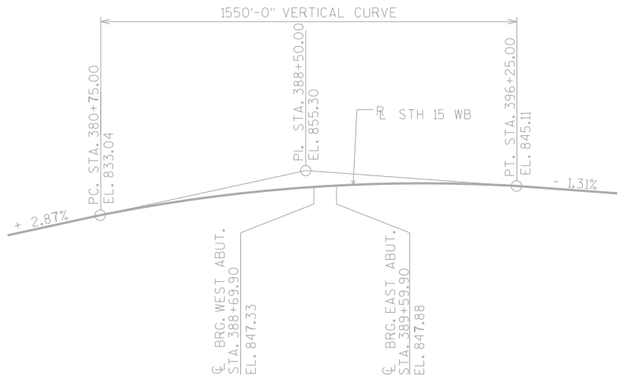
PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS.

THE SLOPE OF FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.

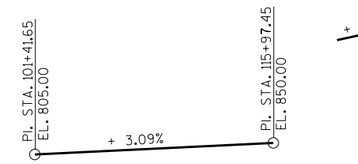
THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF B-44-293 WITH RETAINING WALLS R-44-20 AND R-44-21.

CROSS SECTION THRU ROADWAY

(LOOKING EAST)

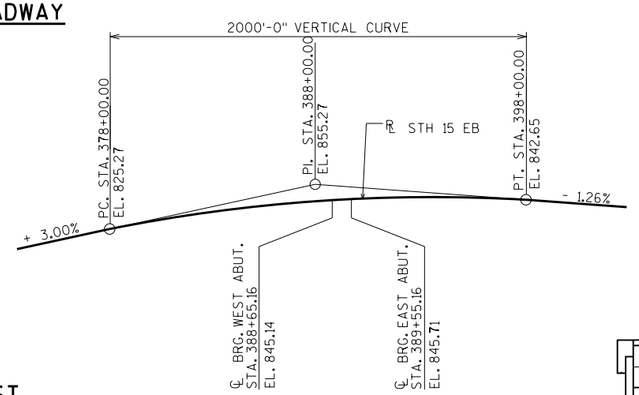


PROFILE GRADE LINE STH 15 WB

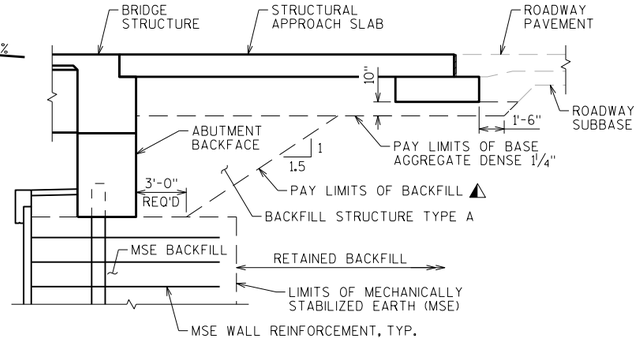


PROFILE GRADE LINE NASH ST.

(FOR INFORMATION ONLY)



PROFILE GRADE LINE STH 15 EB

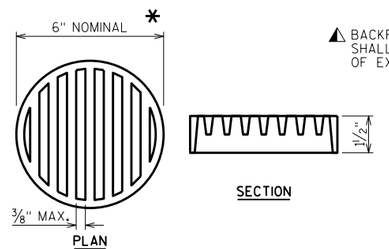


TYPICAL SECTION THRU ABUTMENT

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	WEST APPROACH	WEST ABUT.	EAST ABUT.	EAST APPROACH	TOTALS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-44-293	LS	———	———	———	———	———	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	———	———	129	129	———	258
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	———	133	———	———	133	266
502.0100	CONCRETE MASONRY BRIDGES	CY	177	61	50	50	61	399
502.3200	PROTECTIVE SURFACE TREATMENT	SY	433	90	———	———	90	613
502.3210	PIGMENTED SURFACE SEALER	SY	90	21	———	———	21	132
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF	637	———	———	———	———	637
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	———	———	2,625	2,625	———	5,250
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	26,515	10,265	1,505	1,505	10,265	50,055
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	1,470	———	———	———	———	1,470
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	14	———	———	———	———	14
506.4000	STEEL DIAPHRAGMS B-44-293	EACH	12	———	———	———	———	12
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	———	———	14	14	———	28
550.0500	PILE POINTS	EACH	———	———	10	10	———	20
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF	———	———	250	300	———	550
604.0400	SLOPE PAVING CONCRETE	SY	———	———	15	15	———	30
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	4	———	———	———	———	4
	NON-BID ITEMS							
	FILLER	SIZE	———	———	———	———	———	½", ¾", 1½"



RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-293

DRAWN BY JJS | PLANS CK'D. SEW

CROSS SECTION & QUANTITIES

SHEET 2

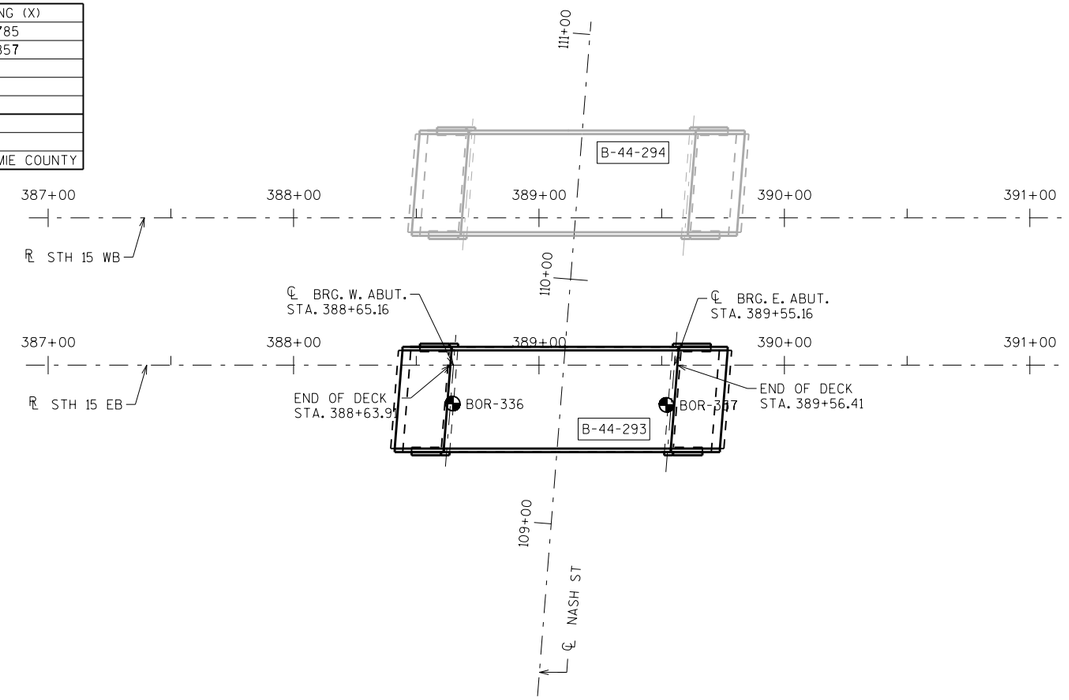
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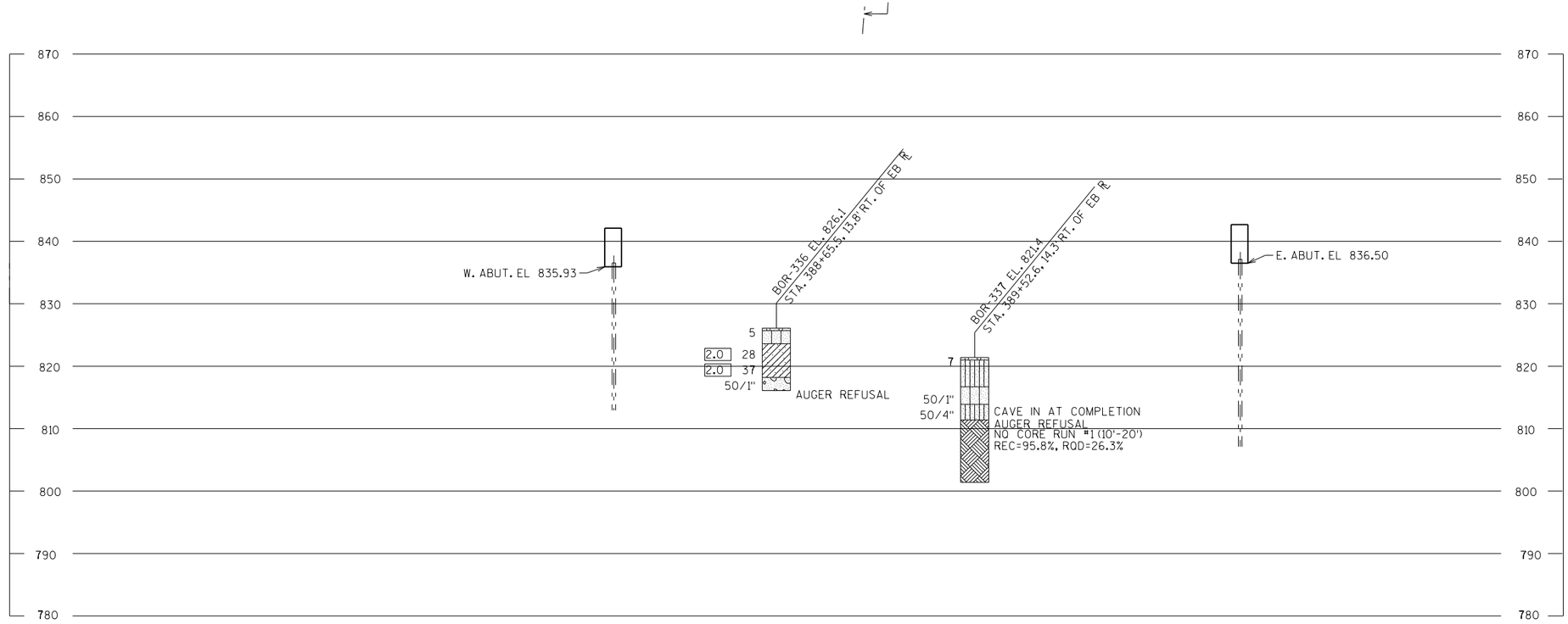
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BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
336	3/31/2014	591890	768785
337	3/31/2014	591841	768857
BORINGS COMPLETED BY: GESTRA			
REPORT COMPLETED BY: CH2M HILL			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY			





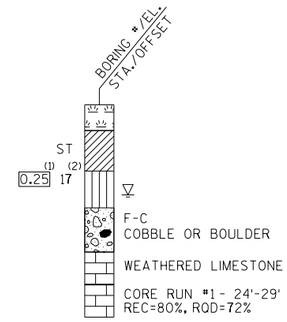
STATE PROJECT NUMBER

1146-75-71

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-293

DRAWN BY JJS | PLANS CK'D. SEW

SUBSURFACE EXPLORATION

SHEET 3

343

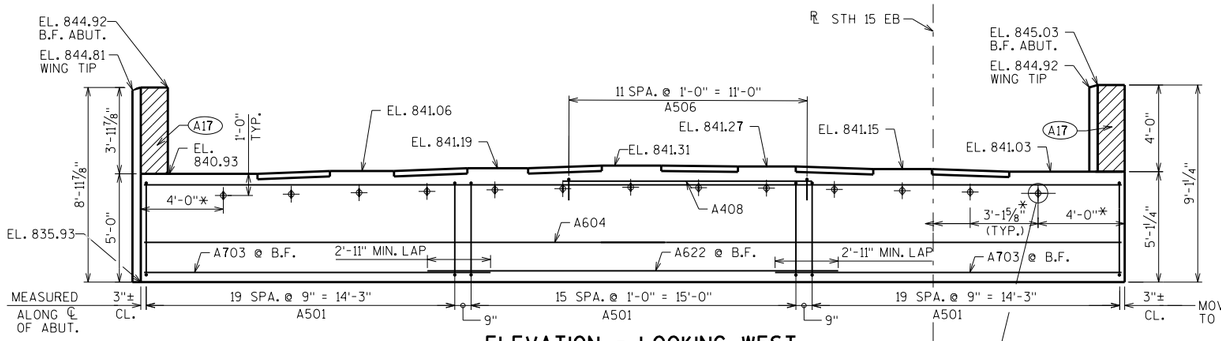
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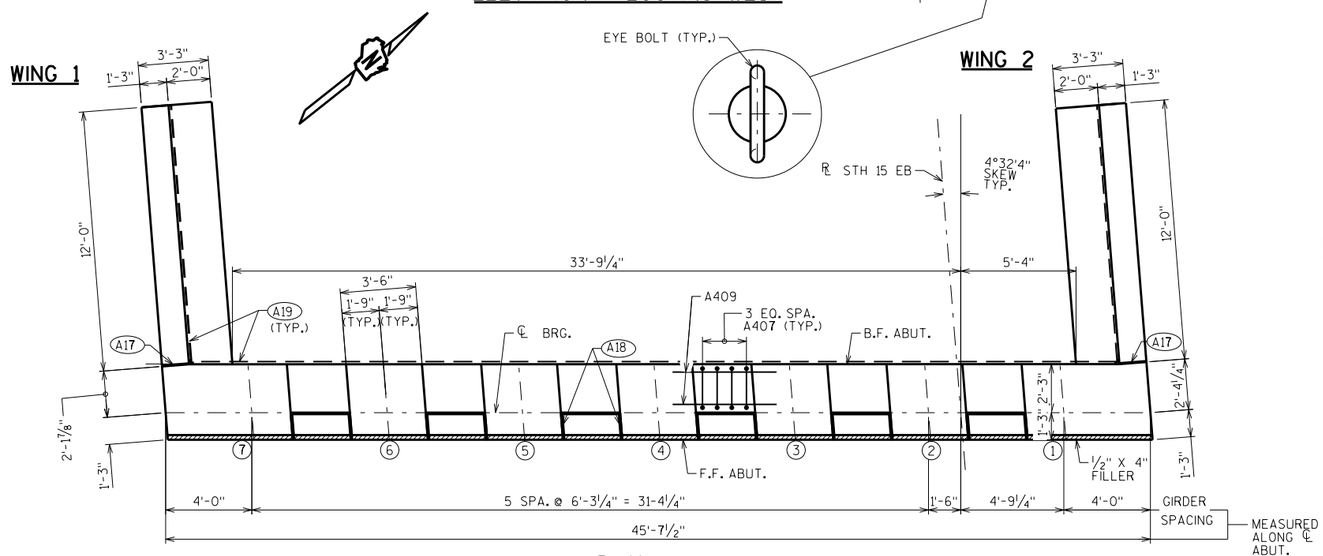
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STATE PROJECT NUMBER

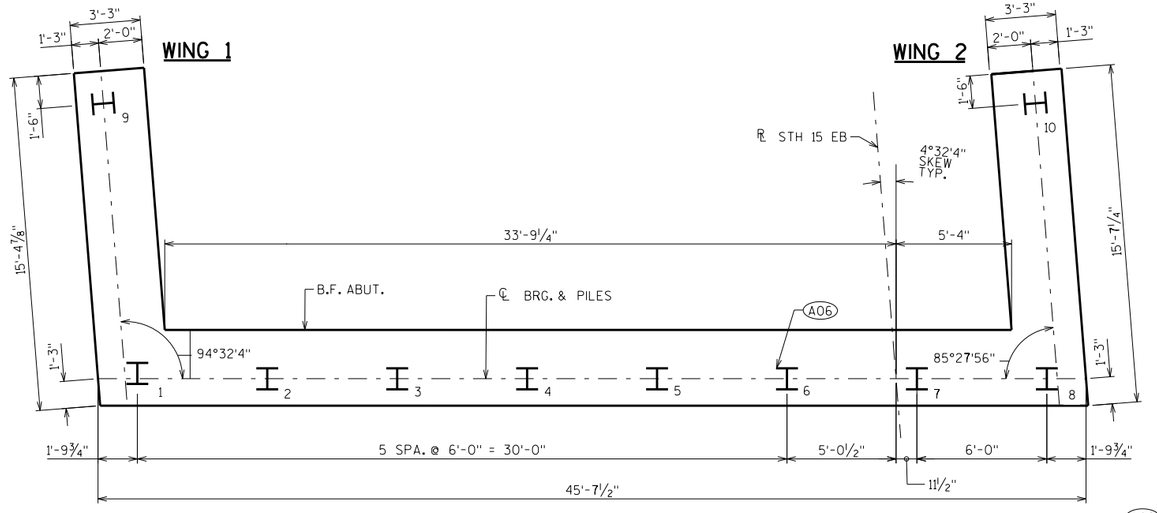
1146-75-71



ELEVATION - LOOKING WEST

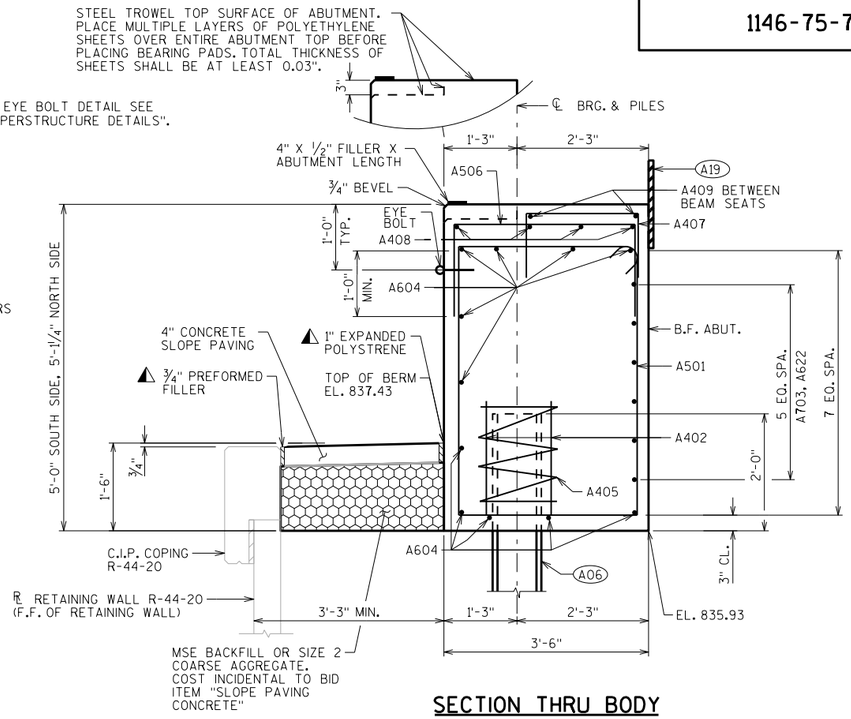


PLAN



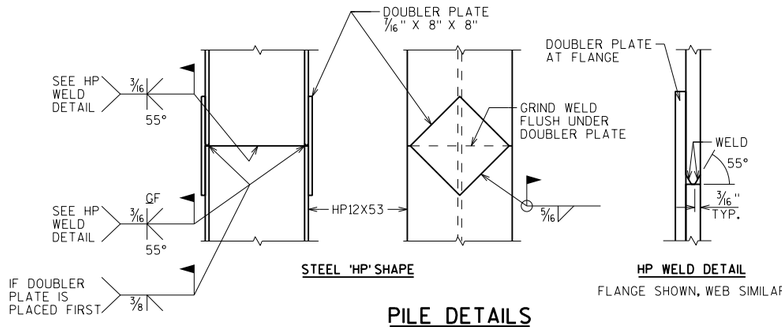
PILE PLAN

NOTE: FOR EYE BOLT DETAIL SEE SHEET "SUPERSTRUCTURE DETAILS".



SECTION THRU BODY

⚠ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER AND EXPANDED POLYSTYRENE WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).



PILE DETAILS

* MEASURED ALONG F.F. ABUT.

◯ INDICATES GIRDER NUMBER

(A06) SUPPORT ABUTMENT ON HP 12 x 53 STEEL PILING, ESTIMATED 25'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-293

DRAWN BY JJS | PLANS CK'D. SEW

WEST ABUTMENT

SHEET 4

344

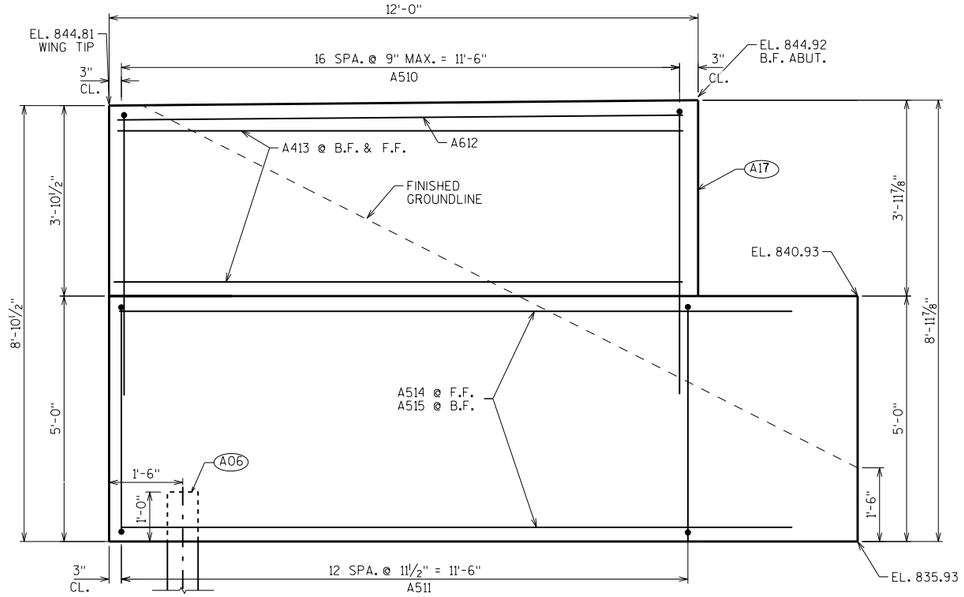
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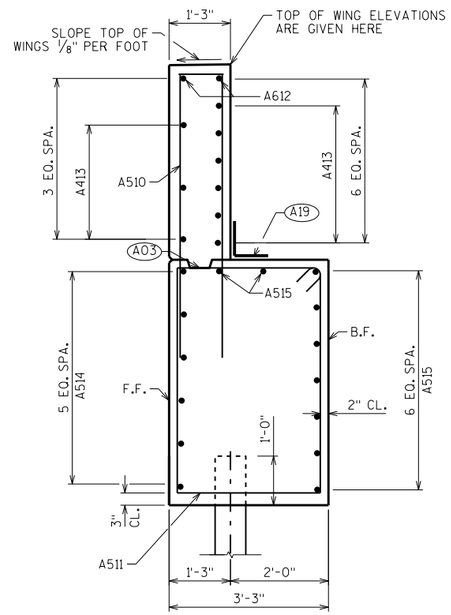
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STATE PROJECT NUMBER

1146-75-71



WING 1 ELEVATION

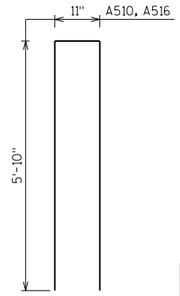


WING 1 SECTION

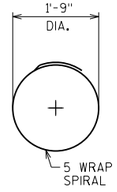
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

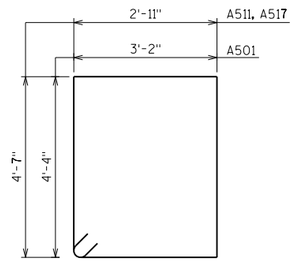
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A501		56	15'-8"	X		BODY- STIRRUPS
A402		16	2'-3"			BODY-VERT- AT BODY PILES
A703		12	16'-0"			BODY-HORIZ. B.F.
A604		11	45'-3"			BODY-HORIZ.
A405		8	28'-0"	X		BODY-VERT. AT BODY PILES
A506		12	6'-3"	X		BODY-VERT. UND. BM. SEATS 3 & 4
A407		24	4'-7"	X		BODY-VERT. BTWN. BM. SEATS
A408		4	11'-6"			BODY HORIZ. UND. BM. SEATS 3 & 4
A409		12	4'-10"			BODY HORIZ. BTWN. BM. SEATS
A510	X	17	12'-4"	X		WING 1- VERT. (UPPER)
A511	X	13	15'-8"	X		WING 1 STIRRUP
A612	X	2	11'-8"			WING 1 HORIZ. TOP
A413	X	9	11'-8"			WING 1 HORIZ. F.F. + B.F.
A514	X	6	13'-8"			WING 1 HORIZ. F.F.
A515	X	9	13'-9"			WING 1 HORIZ. B.F.
A516	X	17	12'-4"	X		WING 2- VERT. (UPPER)
A517	X	13	15'-8"	X		WING 2 STIRRUP
A618	X	2	11'-8"			WING 2 HORIZ. TOP
A419	X	9	11'-8"			WING 2 HORIZ. F.F. + B.F.
A520	X	6	13'-8"			WING 2 HORIZ. F.F.
A521	X	9	13'-8"			WING 2 HORIZ. B.F.
A622		6	19'-3"			BODY-HORIZ. B.F.



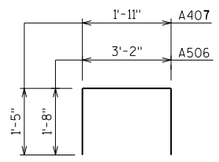
A510, A516



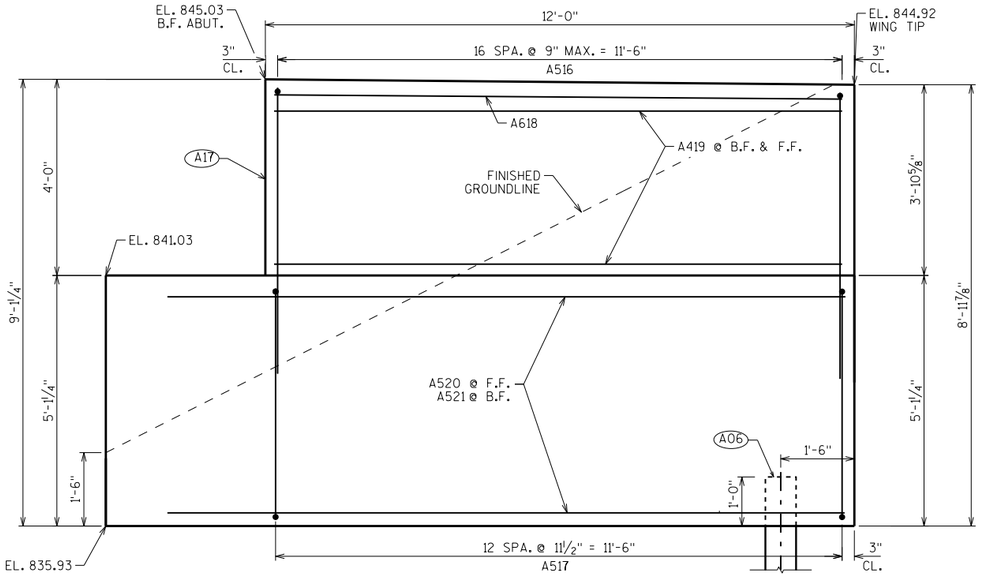
A405



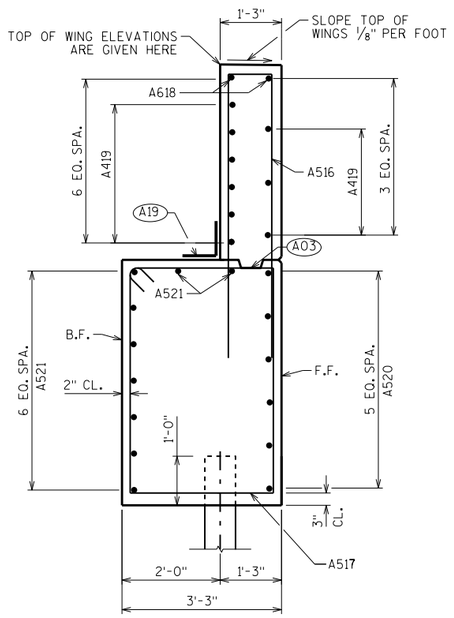
A501, A511, A517



A506, A407



WING 2 ELEVATION



WING 2 SECTION

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

(A06) SUPPORT WING WALL ON HP 12 x 53 STEEL PILING, ESTIMATED 25'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-293

DRAWN BY JJS | PLANS CK'D. SEW

WEST ABUTMENT DETAILS

SHEET 5

345

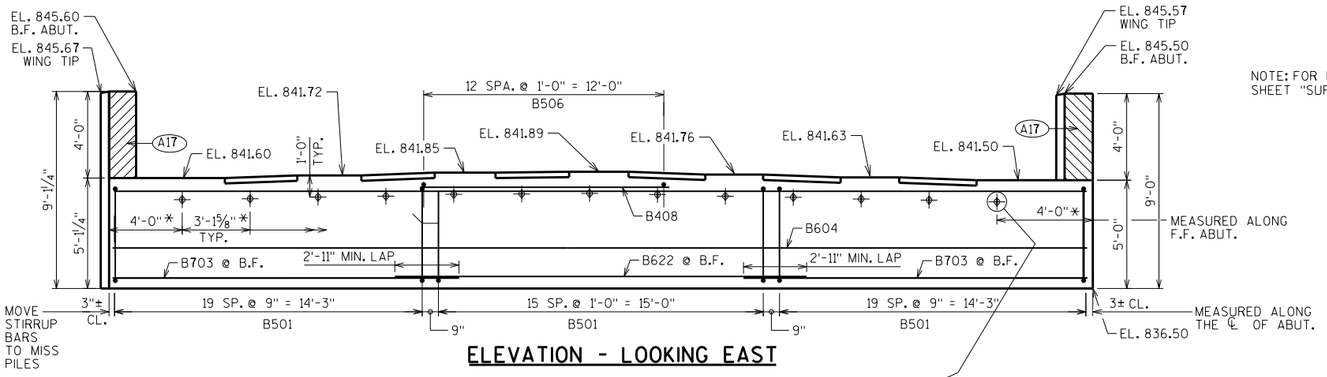
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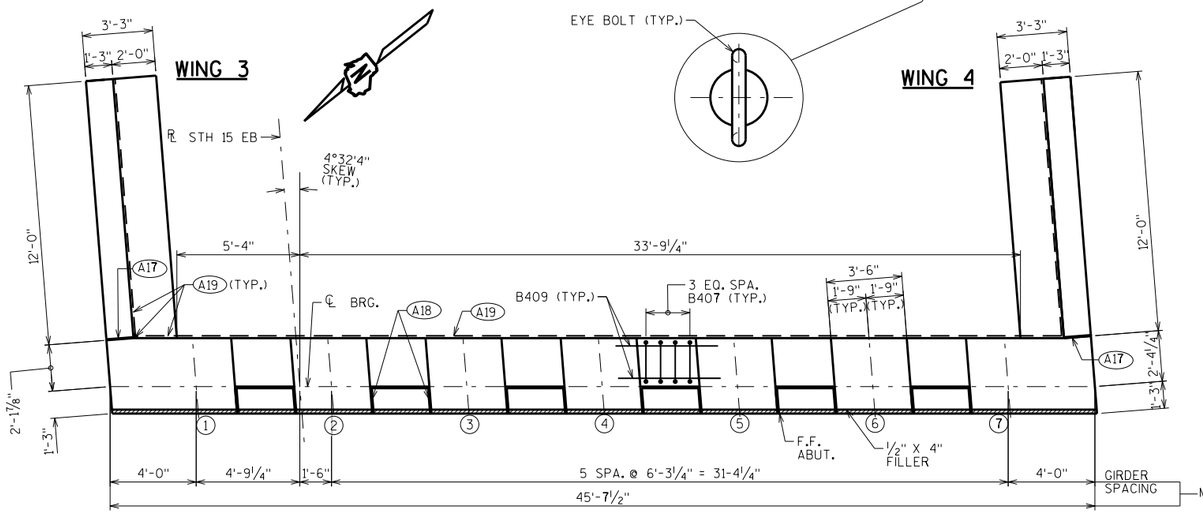
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STATE PROJECT NUMBER

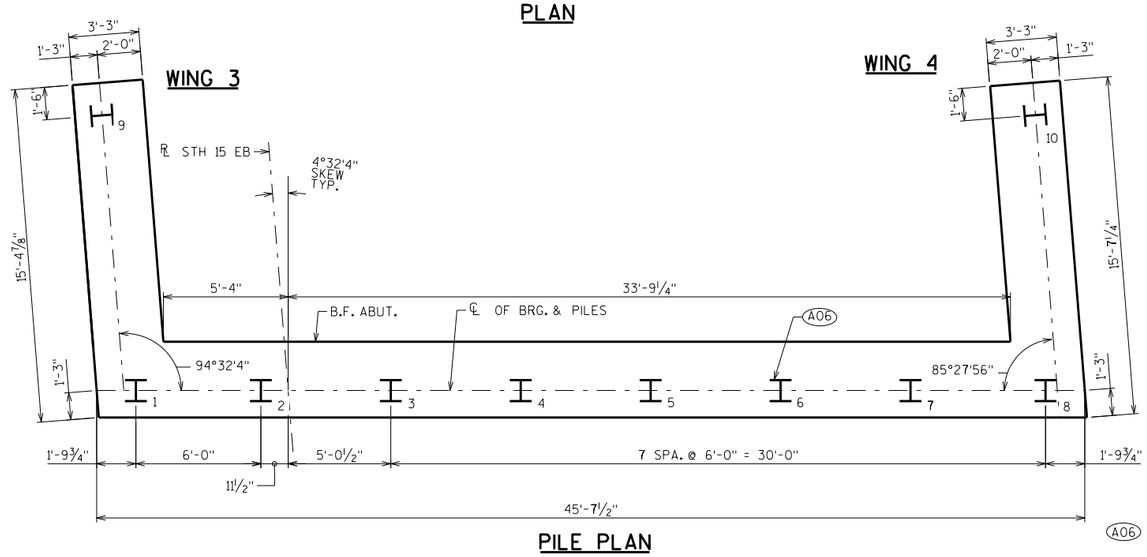
1146-75-71



ELEVATION - LOOKING EAST



PLAN

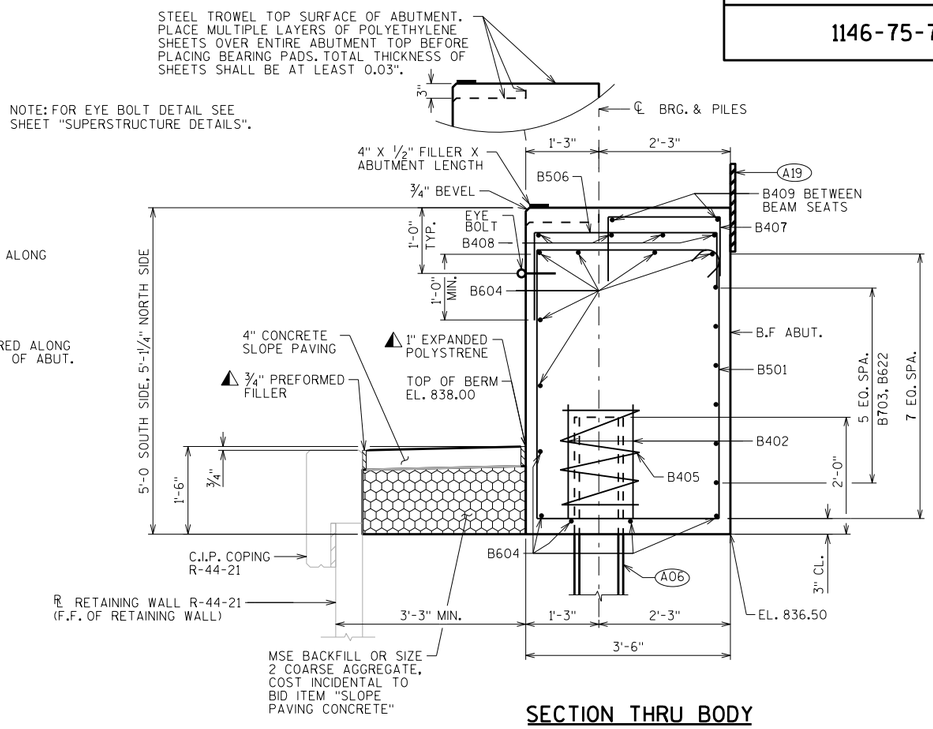


PILE PLAN

* MEASURED ALONG F.F. ABUT.

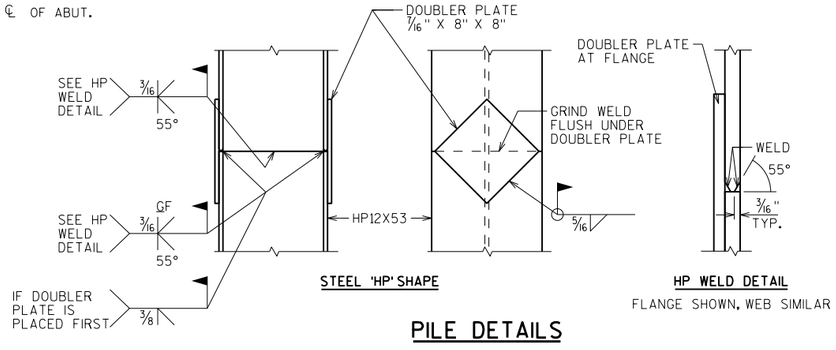
◯ INDICATES GIRDER NUMBER

A06 SUPPORT ABUTMENT ON HP 12 x 53 STEEL PILING, ESTIMATED 30'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.



SECTION THRU BODY

⚠ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER AND EXPANDED POLYSTYRENE WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).



STEEL 'HP' SHAPE

HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

PILE DETAILS

A17 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

A18 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

A19 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-293

DRAWN BY JJS | PLANS CK'D. SEW

EAST ABUTMENT

SHEET 6

346

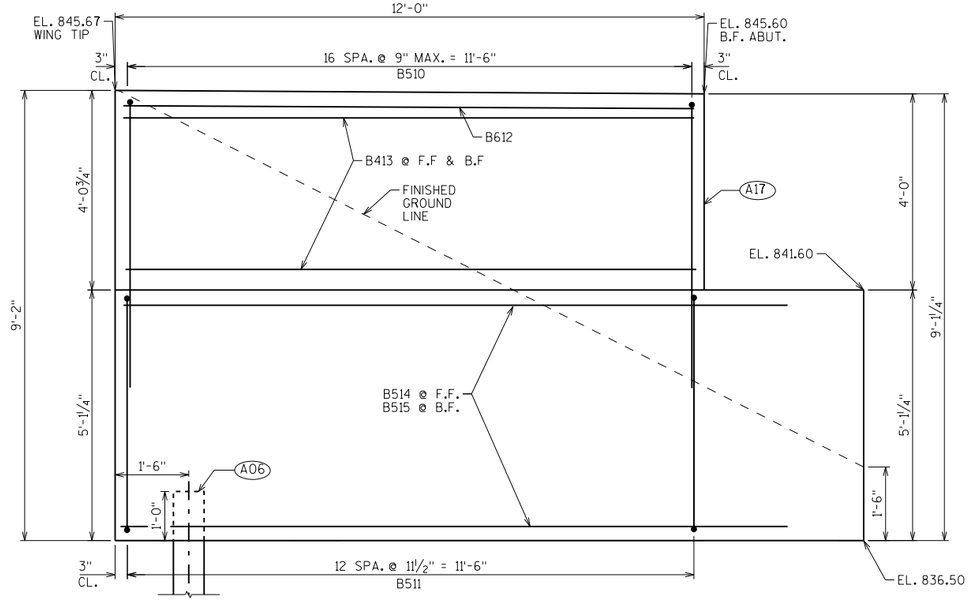
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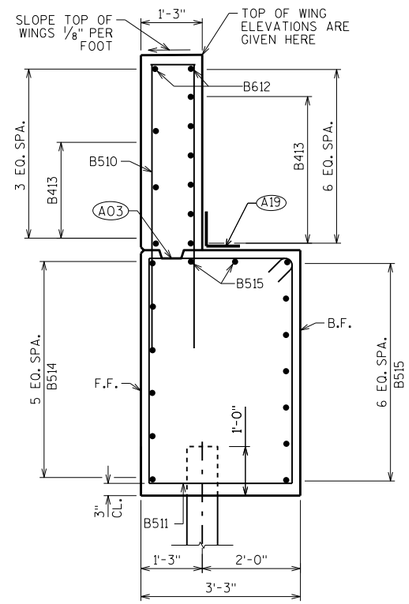
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STATE PROJECT NUMBER

1146-75-71



WING 3 ELEVATION

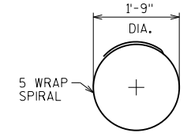


WING 3 SECTION

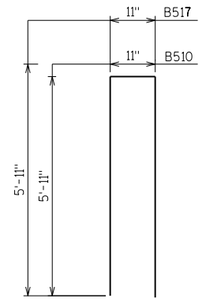
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

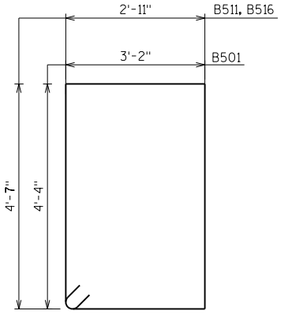
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		56	15'-8"	X		BODY- STIRRUPS
B402		16	2'-3"			BODY-VERT- AT BODY PILES
B703		12	16'-0"			BODY-HORIZ. B.F.
B604		11	45'-3"			BODY-HORIZ.
B405		8	28'-0"	X		BODY-VERT. AT BODY PILES
B506		13	6'-3"	X		BODY-VERT. UND. BM. SEATS 3 & 4
B407		24	4'-7"	X		BODY-VERT. BTWN. BM. SEAT
B408		4	12'-2"			BODY HORIZ. UND. BM. SEATS 3 & 4
B409		12	4'-10"			BODY HORIZ. BTWN. BM. SEAT
B510	X	17	12'-6"	X		WING 3- VERT. (UPPER)
B511	X	13	15'-8"	X		WING 3 STIRRUP
B612	X	2	11'-8"			WING 3 HORIZ. TOP
B413	X	9	11'-8"			WING 3 HORIZ. F.F. + B.F.
B514	X	6	13'-8"			WING 3 HORIZ. F.F.
B515	X	9	13'-9"			WING 3 HORIZ. B.F.
B516	X	13	15'-8"	X		WING 4 STIRRUP
B517	X	17	12'-6"	X		WING 4- VERT. (UPPER)
B618	X	2	11'-8"			WING 4 HORIZ. TOP
B419	X	9	11'-8"			WING 4 HORIZ. F.F. & B.F.
B520	X	6	13'-7"			WING 4 HORIZ. F.F.
B521	X	9	13'-8"			WING 4 HORIZ. B.F.
B622		6	19'-3"			BODY-HORIZ. B.F.



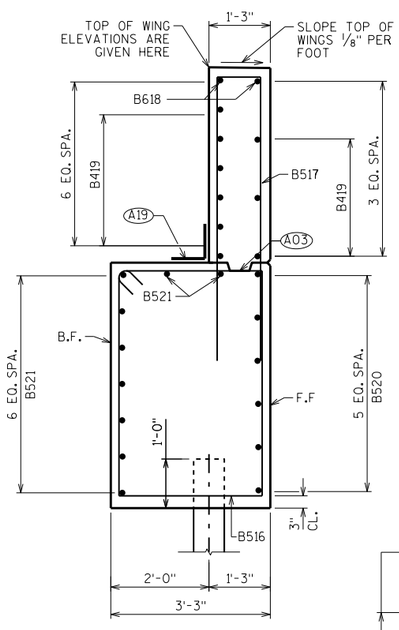
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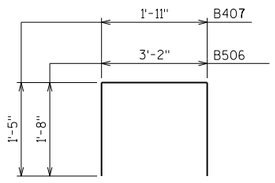
B510, B517



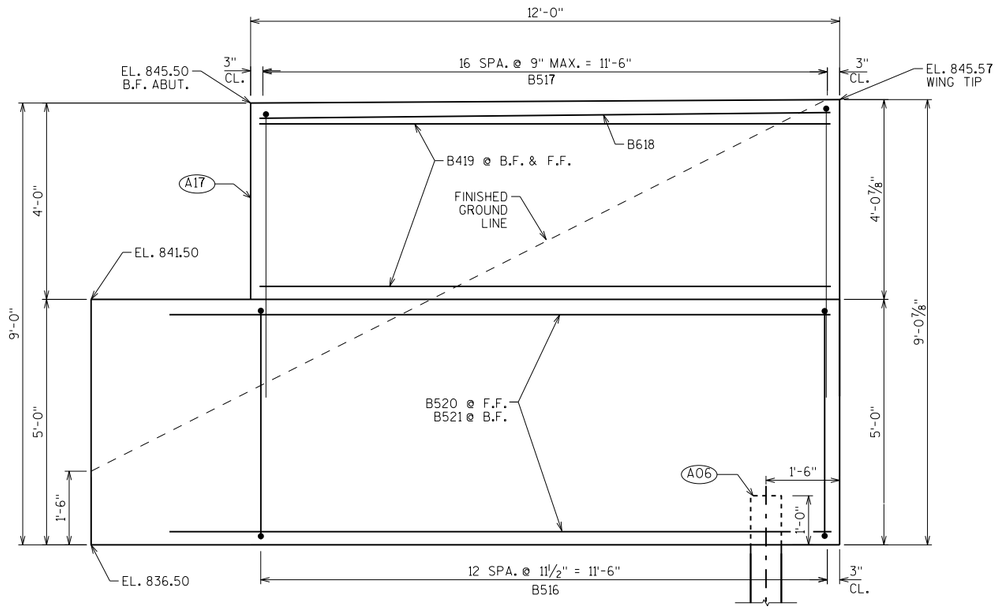
B501, B511, B516



WING 4 SECTION



B506, B407



WING 4 ELEVATION

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

(A06) SUPPORT WINGWALL ON HP 12 x 53 STEEL PILING, ESTIMATED 30'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH); SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

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STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE B-44-293

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EAST ABUTMENT DETAILS

SHEET 7

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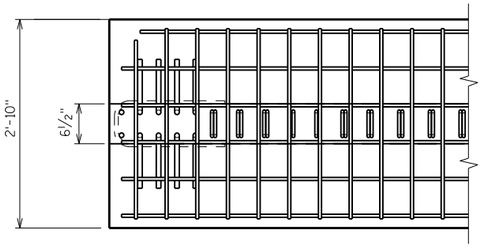
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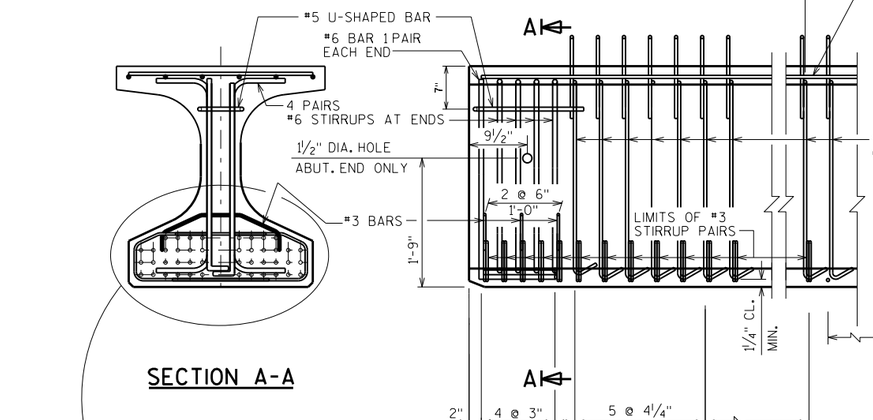
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STATE PROJECT NUMBER

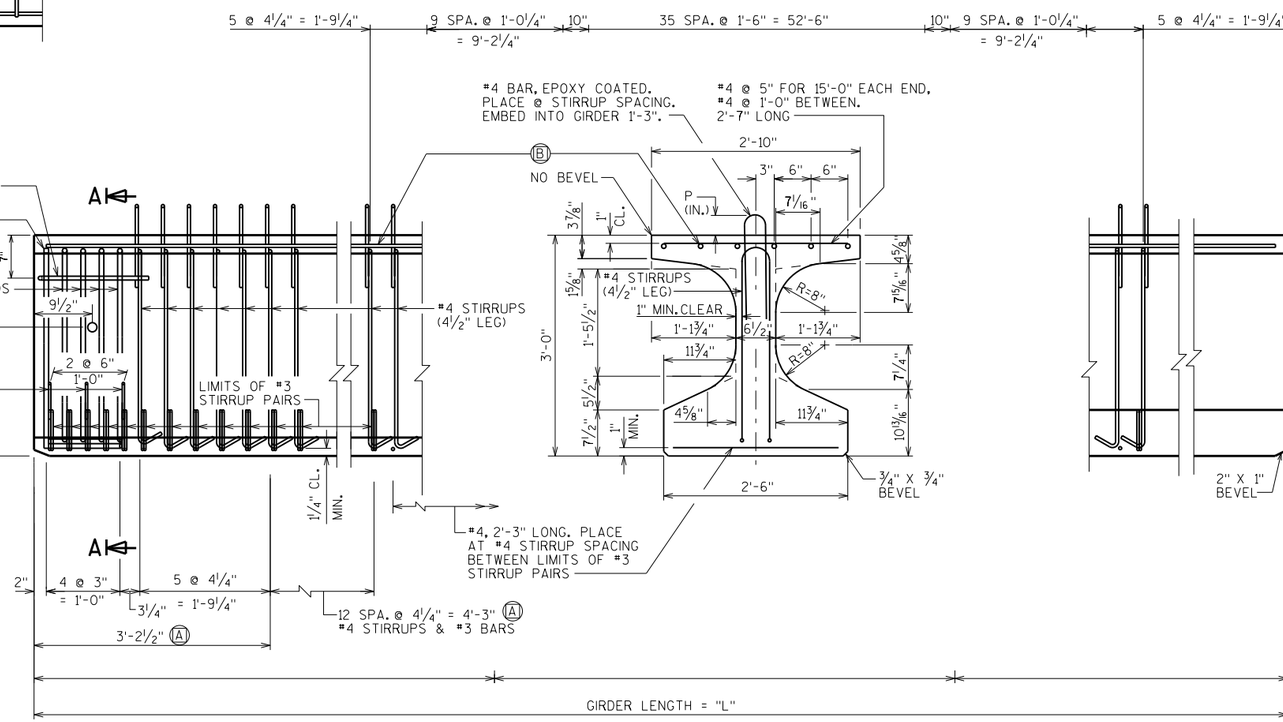
1146-75-71

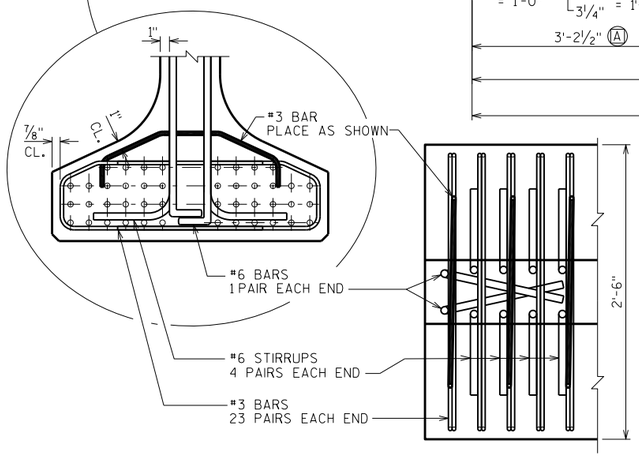


TOP FLANGE



SECTION A-A



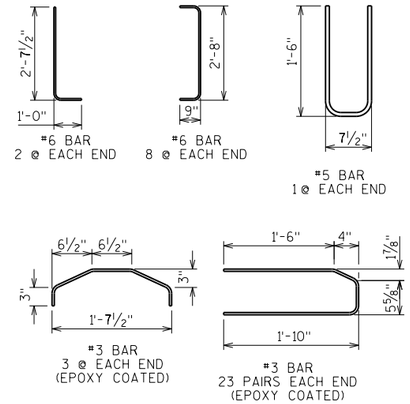


BOTTOM FLANGE

SIDE VIEW & TYPICAL SECTION IN SPAN

(A) DETAIL TYP. AT EACH END

(B) 6 #4 BARS, FULL LENGTH, MIN. LAP = 1'-11"



NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS. SEE SECT. 503.3.3 OF STANDARD SPECIFICATIONS FOR GUIDANCE.

STRANDS SHALL BE FLUSH WITH END OF GIRDER. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, GRADE 2, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE (0.6" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI.

FOR DIAPHRAGM SPACING, INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.

✳ MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.)										CONC. STRGTH. f'c (p.s.i.)	"P" 1ST ⅓ OF GIRDER	"P" MID ⅓ OF GIRDER	"P" END ⅓ OF GIRDER	DIA. OF STRAND (IN.)	DRAPED PATTERN						UNDRAPED PATTERN	
			1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10							TOTAL NO. OF STRANDS	f'ci (P.S.I.) ✳	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	TOTAL NO. OF STRANDS	f'ci (P.S.I.) ✳
1	1-7	91	0.6	1.1	1.5	1.8	1.9	1.8	1.5	1.1	0.6		8,000	8	7	8	0.6	30	6,800	32	11	14	4		

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-293

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36W" PRESTRESSED GIRDER DETAILS 1

SHEET 8

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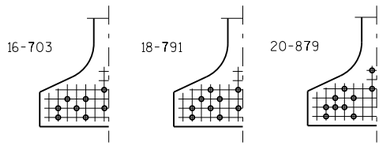
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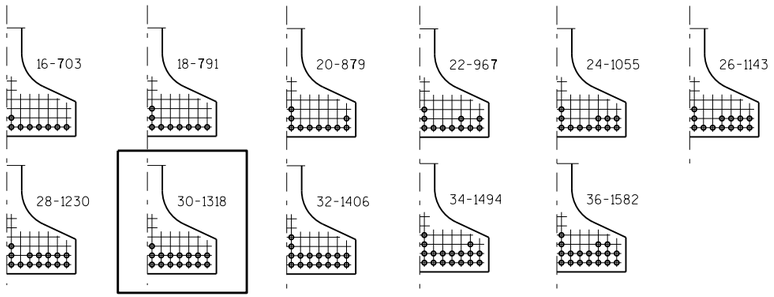
STATE PROJECT NUMBER

1146-75-71



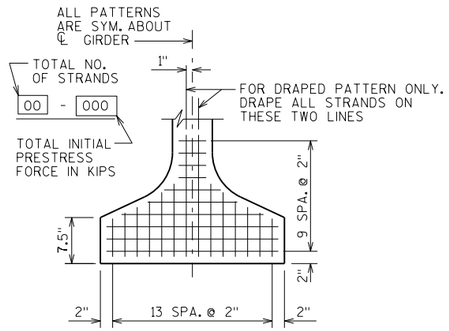
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6" DIA. STRANDS

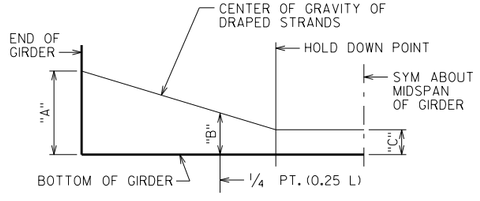


ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6" DIA. STRANDS



TYP. STRAND PATTERN



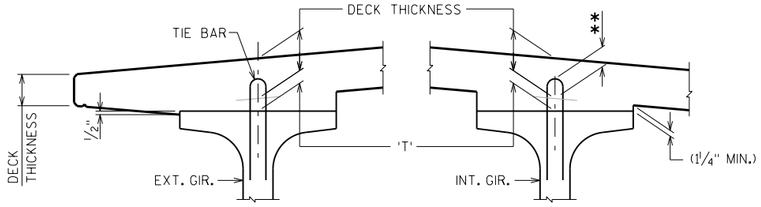
DRAPED STRAND PROFILE

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

SPAN	CAMBER (IN.) *
1	3.49

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.



DECK HAUNCH DETAIL

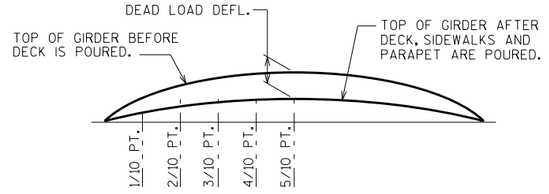
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- DECK THICKNESS
= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 3.04" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".



DEAD LOAD DEFLECTION DIAGRAM

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-293

DRAWN BY JJS | PLANS CK'D. SEW

36W" PRESTRESSED GIRDER DETAILS 2

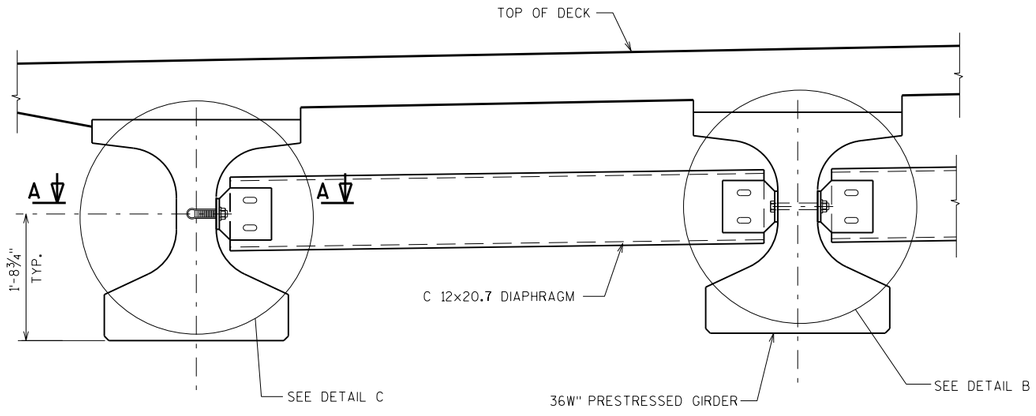
SHEET 9

349

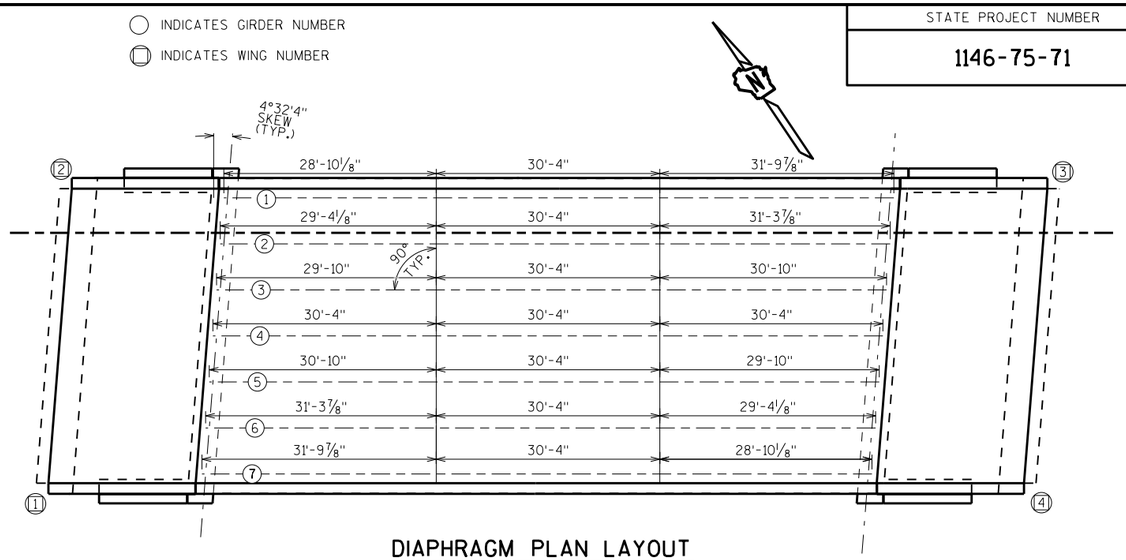
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STATE PROJECT NUMBER

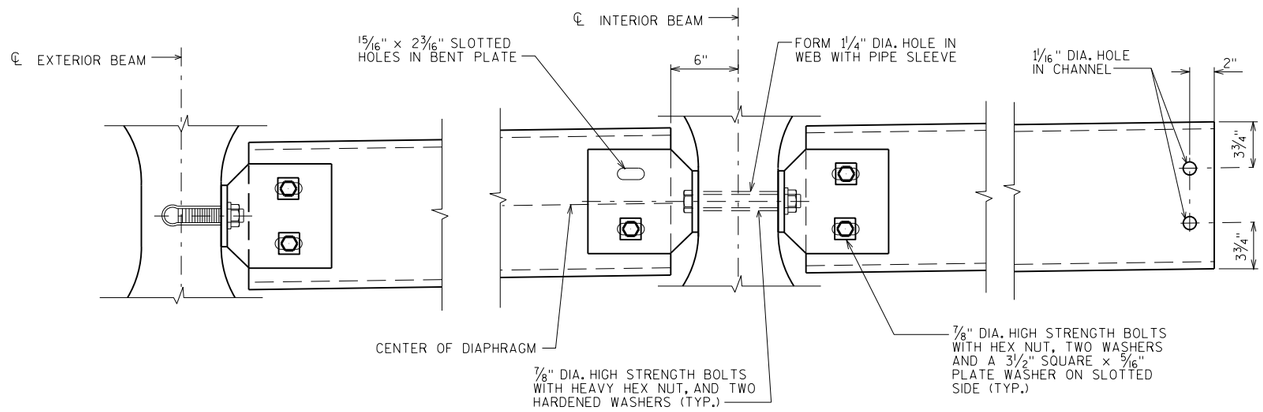
1146-75-71



PART TRANSVERSE SECTION AT DIAPHRAGM



DIAPHRAGM PLAN LAYOUT



DETAIL C

DETAIL B

NOTES

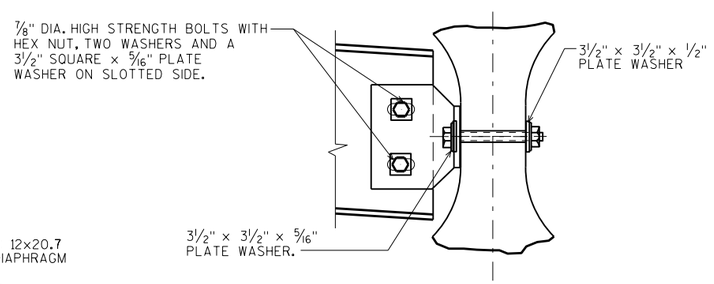
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-44-293", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

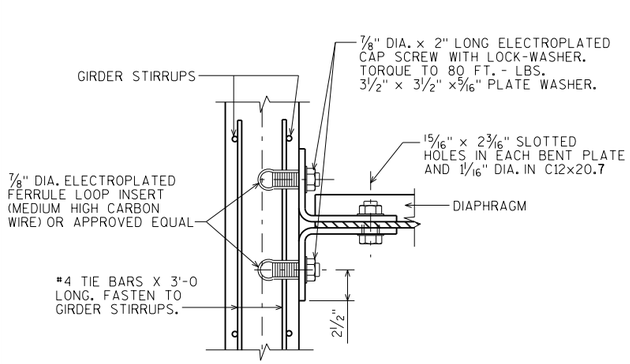
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

ALL DIAPHRAGM MATERIAL INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS ¼ TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.

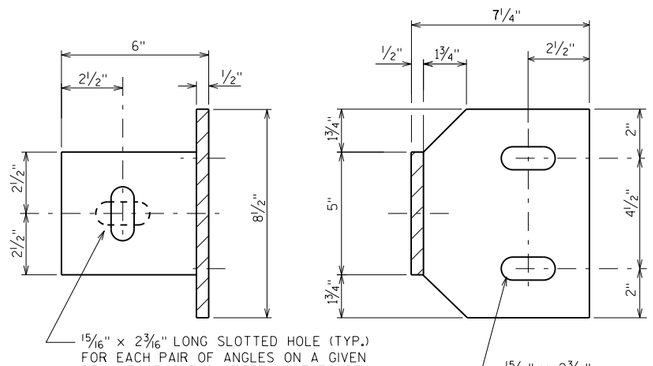


SECTION AT INTERIOR GIRDERS THRU DIAPHRAGM FOR SKEW ANGLES > 10°



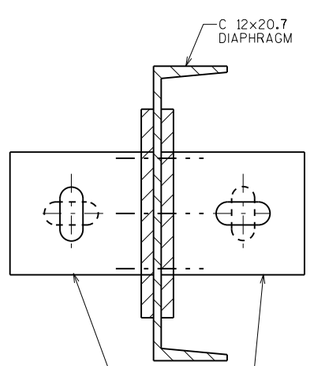
SECTION A-A

(FOR EXTERIOR ATTACHMENT)



BEAM FACE

DIAPHRAGM FACE



ATTACHMENT TO CHANNEL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-293

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STEEL DIAPHRAGM

SHEET 10

350

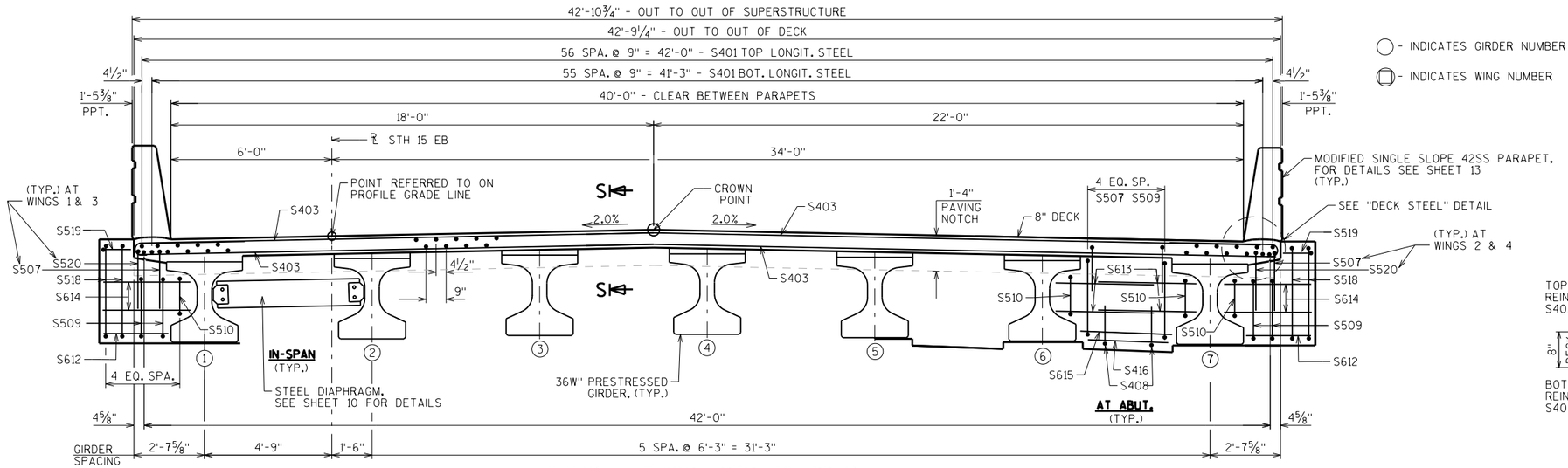
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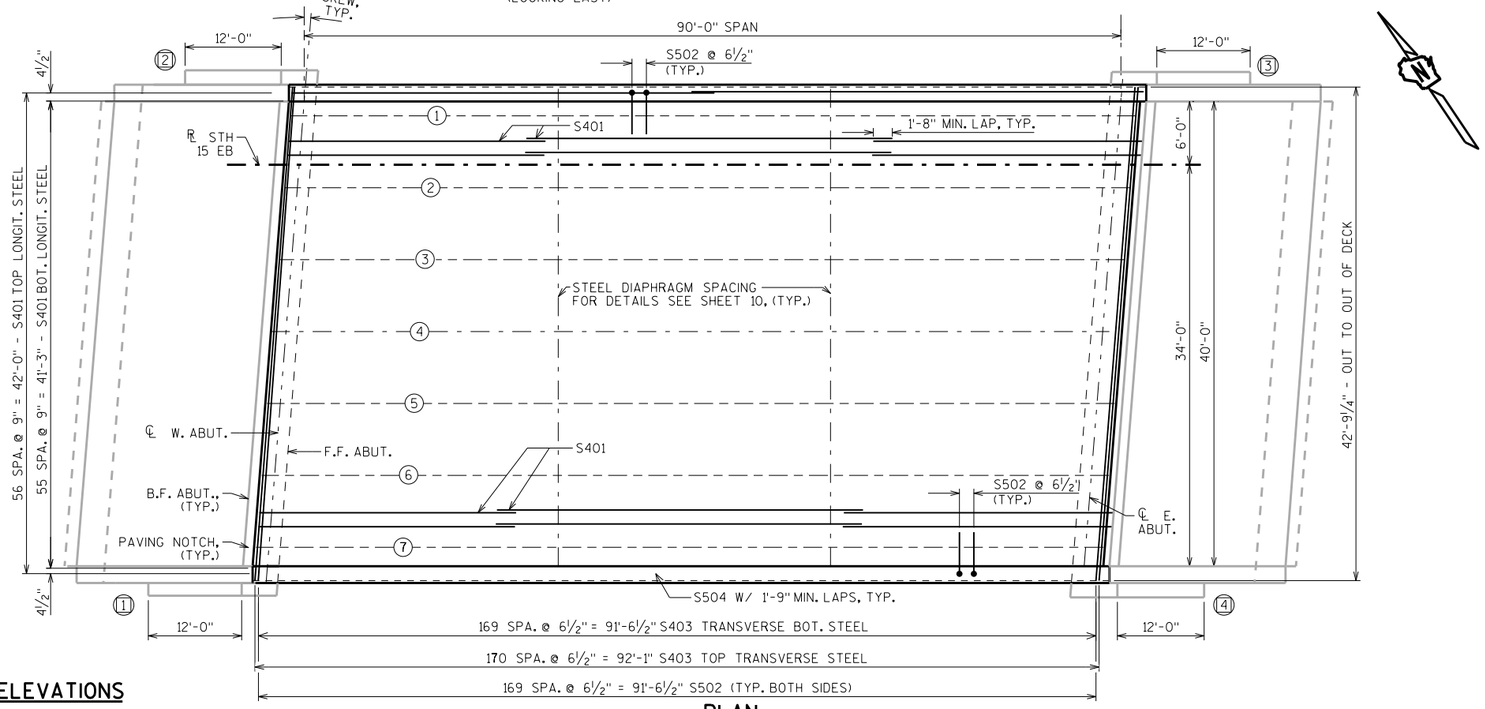
STATE PROJECT NUMBER

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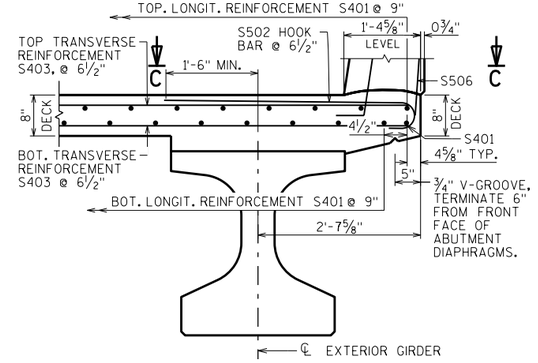


CROSS SECTION THRU ROADWAY

(LOOKING EAST)

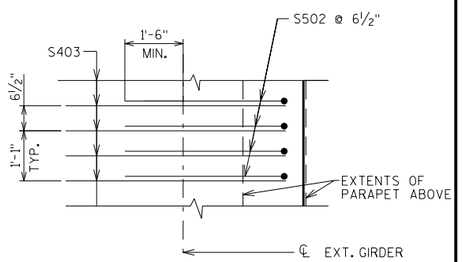


PLAN

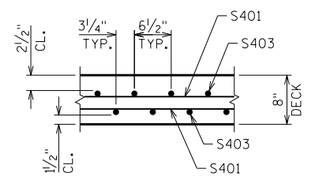


DECK STEEL DETAIL

(TYP. AT BOTH EDGES)



PLAN C-C



SECTION S-S

TOP OF DECK ELEVATIONS

EOD= EDGE OF DECK	℄ BRG. W. ABUT.	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	℄ E. ABUT.
N. EOD	845.03	845.09	845.15	845.22	845.28	845.33	845.39	845.44	845.50	845.55	845.60
G1	845.05	845.11	845.18	845.24	845.30	845.36	845.41	845.47	845.52	845.57	845.62
G2	845.17	845.24	845.30	845.36	845.42	845.48	845.54	845.59	845.64	845.69	845.74
G3	845.29	845.36	845.42	845.48	845.54	845.60	845.66	845.71	845.76	845.82	845.87
G4	845.33	845.40	845.46	845.52	845.58	845.64	845.70	845.75	845.81	845.86	845.91
G5	845.21	845.27	845.33	845.40	845.46	845.51	845.57	845.63	845.68	845.73	845.78
G6	845.08	845.14	845.21	845.27	845.33	845.39	845.44	845.50	845.55	845.60	845.65
G7	844.95	845.01	845.08	845.14	845.20	845.26	845.31	845.37	845.42	845.48	845.52
S. EOD	844.92	844.99	845.05	845.11	845.17	845.23	845.29	845.34	845.40	845.45	845.50

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STRUCTURES DESIGN SECTION

STRUCTURE B-44-293

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SUPERSTRUCTURE

SHEET 11

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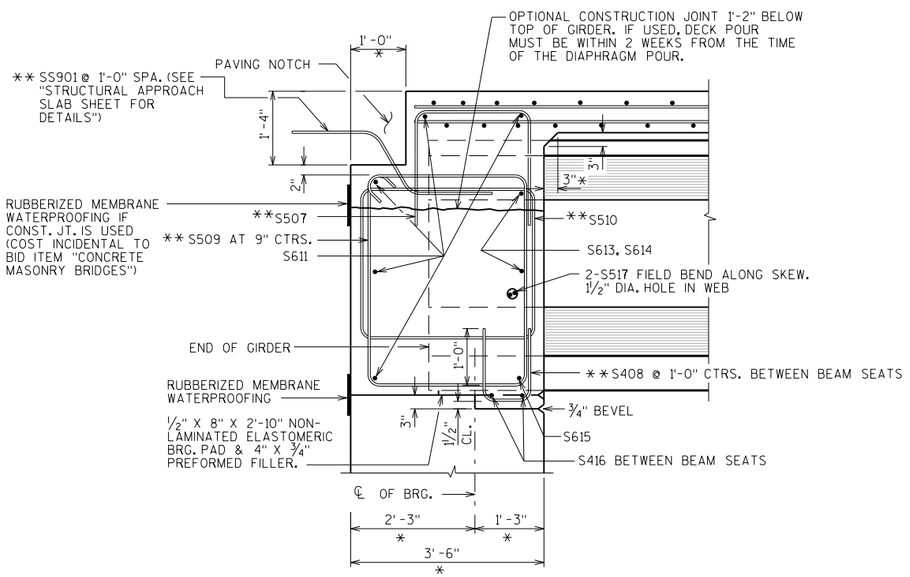
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STATE PROJECT NUMBER

1146-75-71

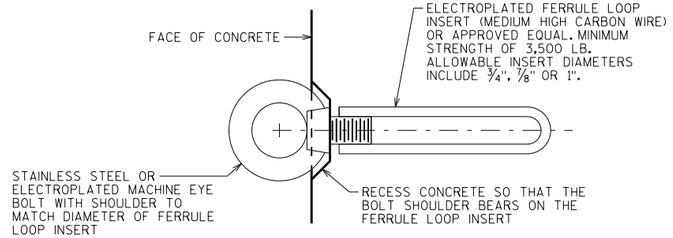


AT ABUTMENTS

PART LONGIT. SECTION

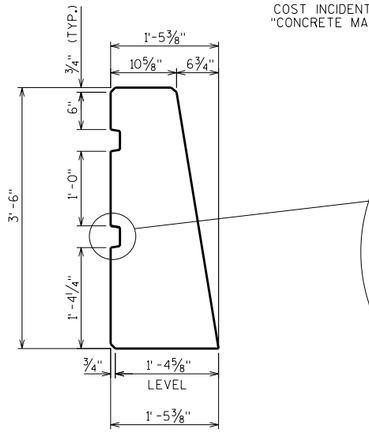
* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

** BARS PLACED PARALLEL TO GIRDERS SPACING PERPENDICULAR TO ℄ GIRDERS

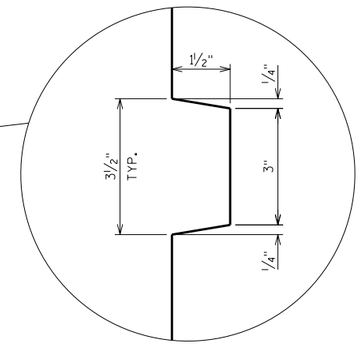


EYE BOLT DETAIL

COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".



MODIFIED 42SS PARAPET



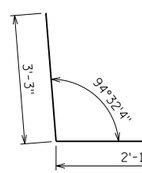
DETAIL A

BILL OF BARS

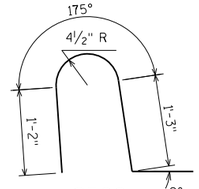
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S401	X	345	31'-10"			LONGITUNDINAL TOP & BOTTOM
S502	X	340	4'-7"	X		TRANSVERSE EDGE OF DECK TOP
S403	X	341	42'-5"			TRANSVERSE TOP AND BOTTOM
S504	X	32	47'-0"			PARAPET 42SS -HORIZ.
S505	X	278	6'-8"	X		PARAPET 42SS - VERT.
S506	X	278	4'-5"	X		PARAPET 42SS -VERT.
S507	X	64	6'-3"	X		ABUT. DIAPHRAGM -VERT.
S408	X	48	3'-5"	X		ABUT. DIAPHRAGM -VERT.
S509	X	68	11'-8"	X		ABUT. DIAPHRAGM - STIRRUP
S510	X	28	9'-10"	X		ABUT. DIAPHRAGM - STIRRUP
S611	X	10	42'-5"			ABUT. DIAPHRAGM - HORIZ. -B.F
S612	X	4	2'-5"			ABUT. DIAPHRAGM - HORIZ. -F.F ENDS
S613	X	48	3'-8"			ABUT. DIAPHRAGM - HORIZ. -F.F
S614	X	8	9'-4"	X		ABUT. DIAPHRAGM ENDS - HORIZ. -F.F
S615	X	12	3'-5"			ABUT. DIAPHRAGM - HORIZ.
S416	X	24	2'-5"			ABUT. DIAPHRAGM - HORIZ.
S517	X	28	6'-0"			ABUT. DIAPHRAGM - HORIZ.
S518	X	8	14'-0"	X		ABUT. DIAPHRAGM ENDS
S519	X	4	4'-6"	X		ABUT. DIAPHRAGM ENDS
S520	X	4	7'-1"	X		ABUT. DIAPHRAGM ENDS
SS901		86	5'-0"	X		CONC. ABUT. DIAPH. TO STRUCT. SLAB TIE

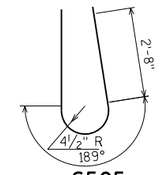
STAINLESS STEEL REINFORCEMENT



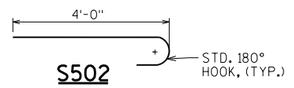
S614



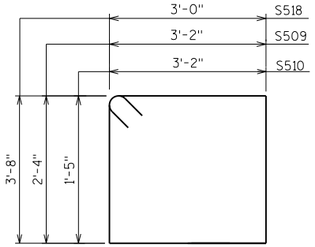
S506



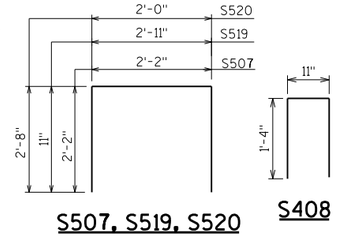
S505



S502

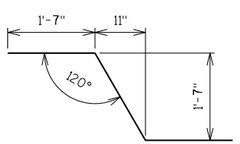


S509, S510, S518



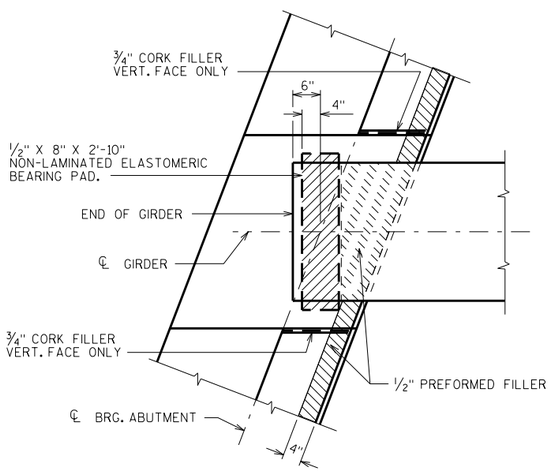
S507, S519, S520

S408

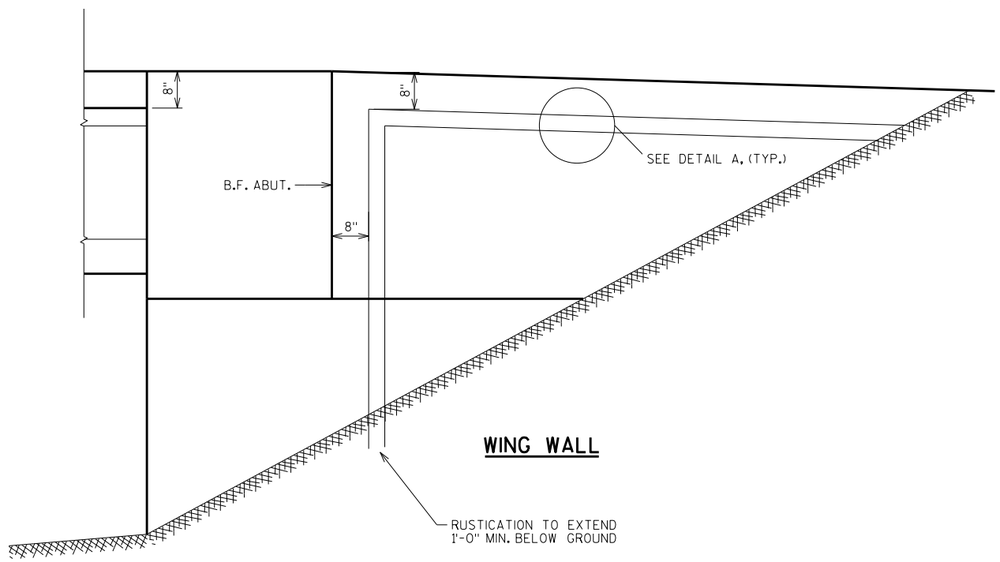


SS901

(STAINLESS STEEL)



BEARING PAD DETAIL



WING WALL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-293

DRAWN BY JJS | PLANS CK'D. SEW

SUPERSTRUCTURE DETAILS

SHEET 12

352

SCALE = 1.33

8

8

STATE PROJECT NUMBER

1146-75-71

BILL OF BARS

FOR STRUCTURAL APPROACH SLAB PARAPETS

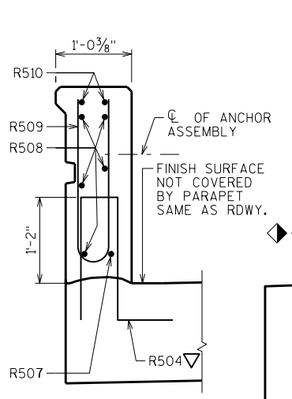
BAR MARK	COAT	W.APP. ABUT.	E.APP. ABUT.	LENGTH	BENT	BAR SERIES	LOCATION
R501	X	34	34	4'-5"	X		PARAPET VERT.
R502	X	34	34	6'-8"	X		PARAPET VERT.
R503	X	24	24	2'-9"	X		PARAPET VERT.
R504	X	34	34	4'-4"	X		PARAPET VERT.
R505	X	10	10	6'-5"	X		PARAPET VERT.
R506	X	12	12	6'-6"	X		PARAPET VERT.
R507	X	2	2	19'-6"	X		PARAPET HORIZ.
R508	X	10	10	19'-6"			PARAPET HORIZ.
R509	X	12	12	5'-5"	X	◭	PARAPET VERT.
R510	X	4	4	19'-6"	X		PARAPET HORIZ.

◭ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

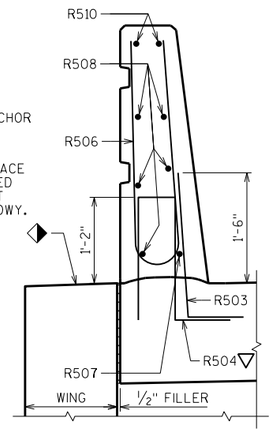
BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
R509	4 SERIES OF 6	4'-9" TO 6'-1"

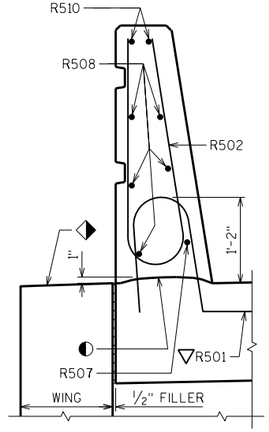
BUNDLE AND TAG EACH SERIES SEPARATELY.



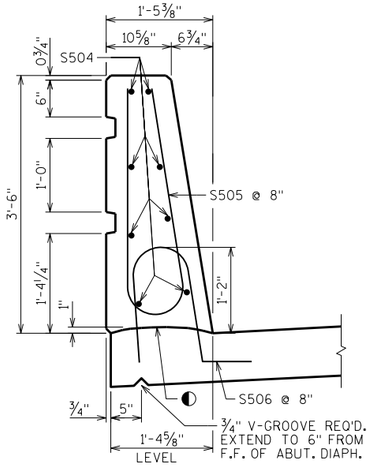
SECTION A-A



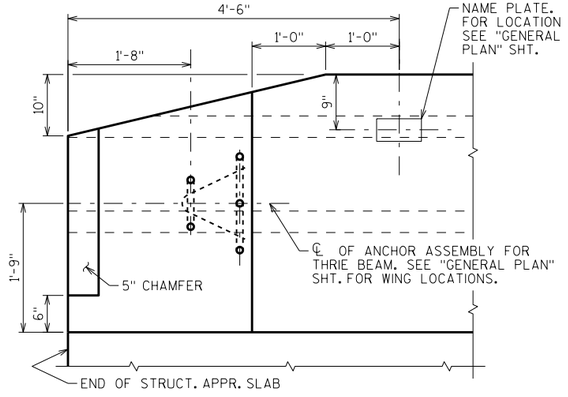
SECTION B-B



SECTION C-C

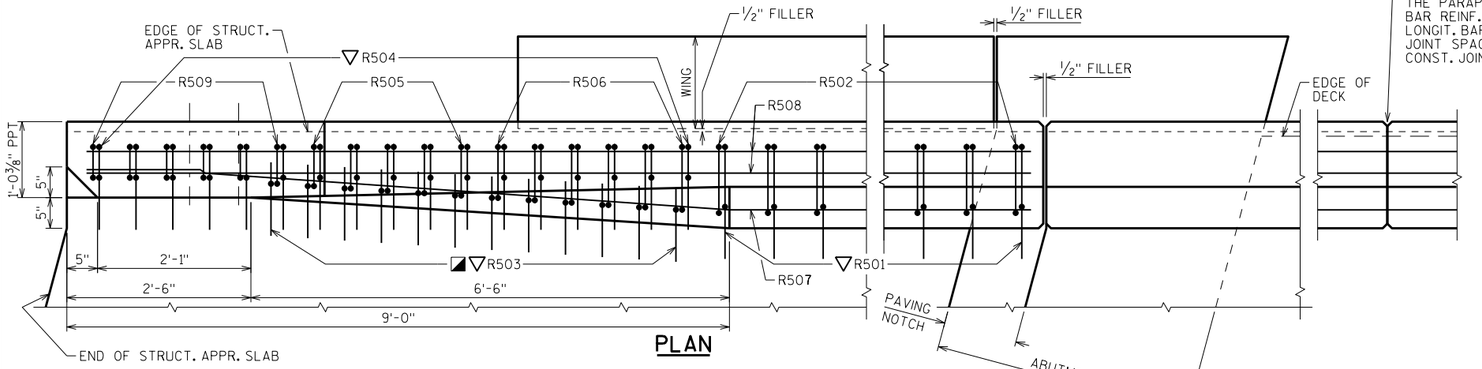


SECTION THRU PARAPET ON DECK

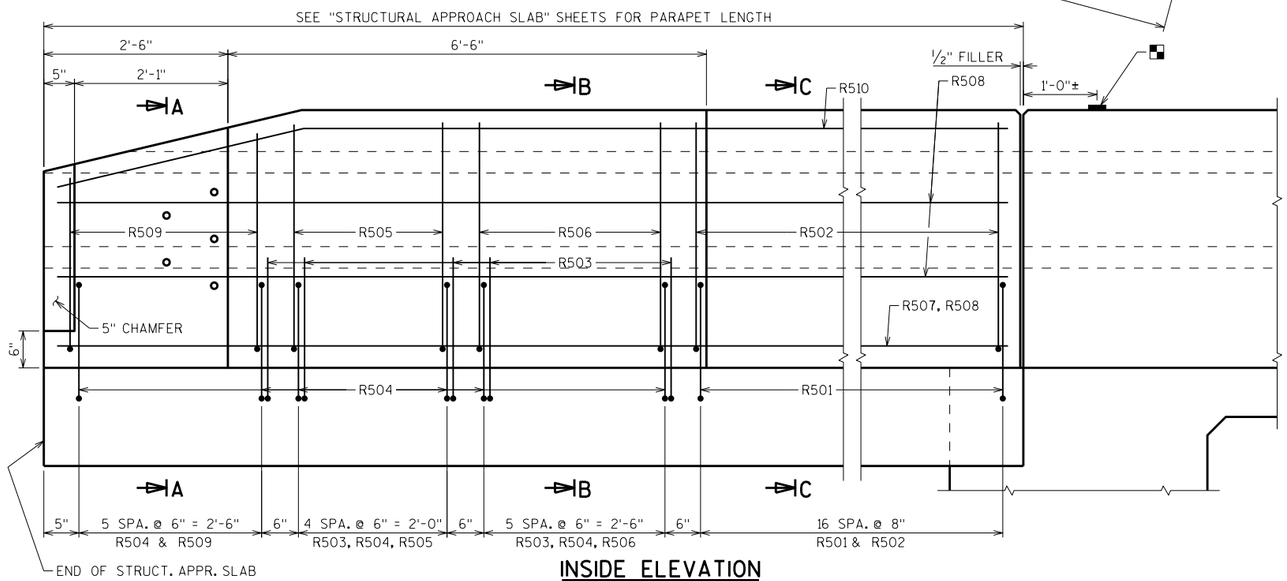


PARAPET END TREATMENT DETAIL

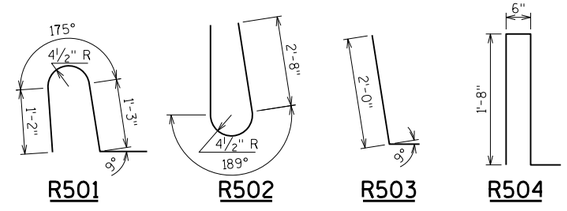
LOOKING AT INSIDE FACE OF PARAPET



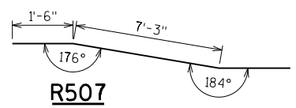
PLAN



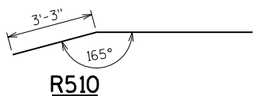
INSIDE ELEVATION



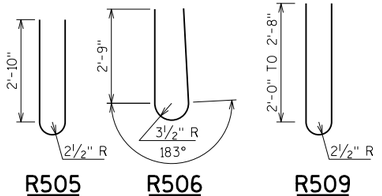
R501 R502 R503 R504



R507



R510



R505 R506 R509

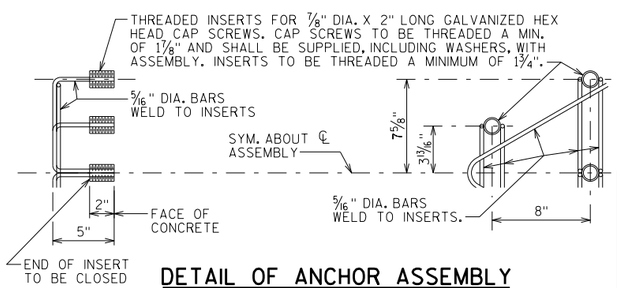
BENCH MARK CAP (WHEN SUPPLIED). AVOID PLACING A BENCH MARK CAP BELOW A RAIL OR FENCE SYSTEM THAT IS ATTACHED TO THE TOP OF THE PARAPET.

◐ CONST. JOINT - STRIKE OFF AS SHOWN

◈ SLOPE FOR DRAINAGE

◪ USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ R501, R503, AND R504 BARS TO BE TIED TO STRUCTURAL APPROACH SLAB STEEL BEFORE STRUCTURAL APPROACH SLAB IS POURED.



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-293

DRAWN BY JJS | PLANS CK'D. SEW

MODIFIED SINGLE SLOPE PARAPET 42SS

SHEET 13

353

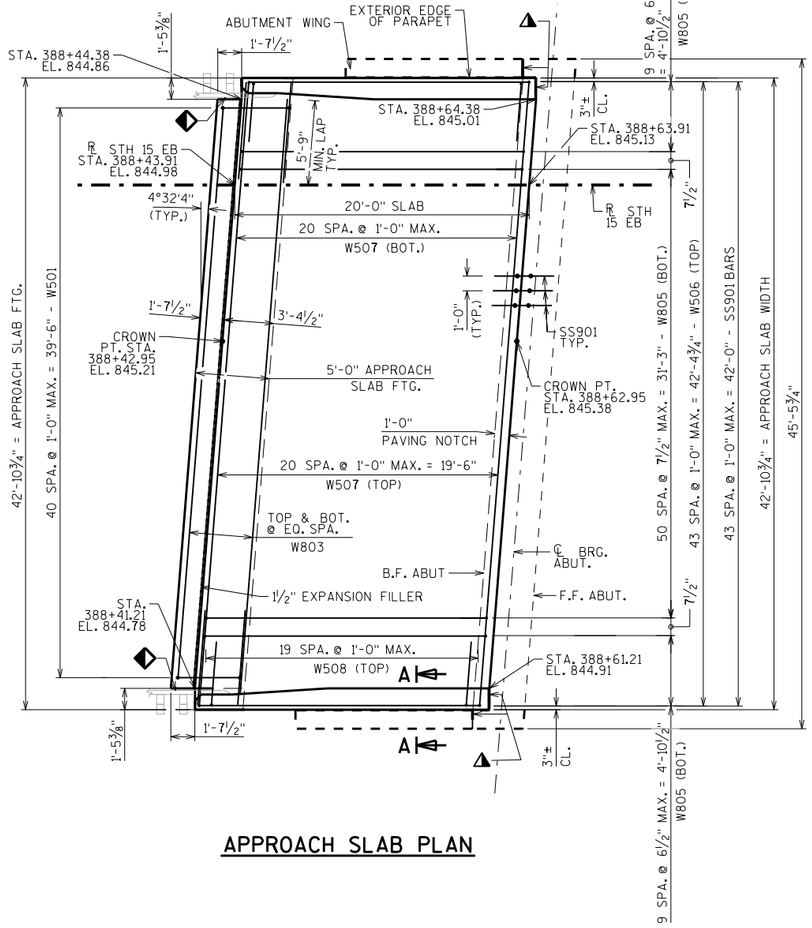
SCALE = 1.00

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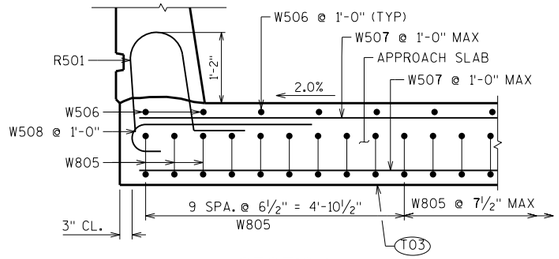
8

STATE PROJECT NUMBER

1146-75-71



APPROACH SLAB PLAN



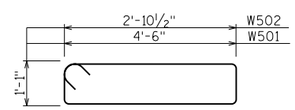
SECTION A-A

(NORTH END SIMILAR)

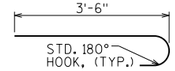
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

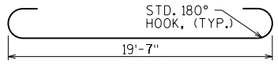
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
W501	X	41	11'-10"	X	FOOTING - STIRRUP
W502	X	4	8'-7"	X	FOOTING - STIRRUP ENDS
W803	X	12	39'-9"		FOOTING - TRANS. - TOP & BTM.
W804	X	16	7'-2"		FOOTING END - TRANS.- TOP & BTM.
W805	X	71	21'-5"	X	SLAB - LONGIT. - BTM.
W506	X	44	19'-6"		SLAB - LONGIT. - TOP
W507	X	42	42'-6"		SLAB - TRANS. - TOP & BOT.
W508	X	40	4'-1"	X	SLAB-TRANS.-TOP EDGE- BTWN. W507



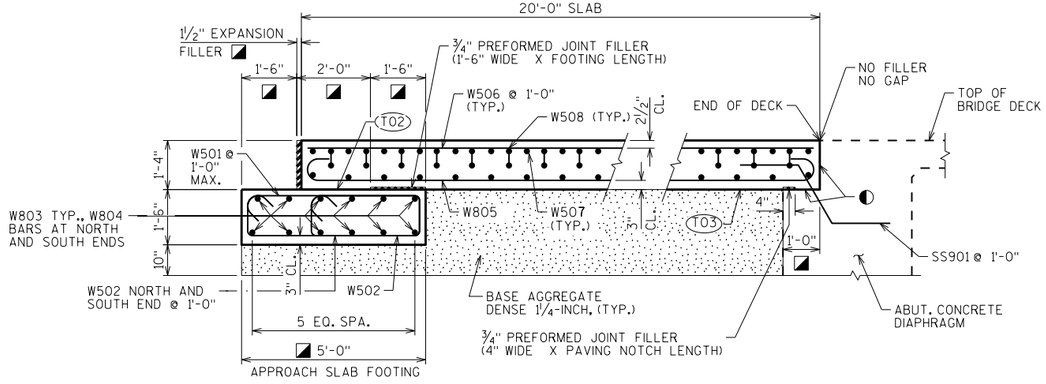
W501, W502



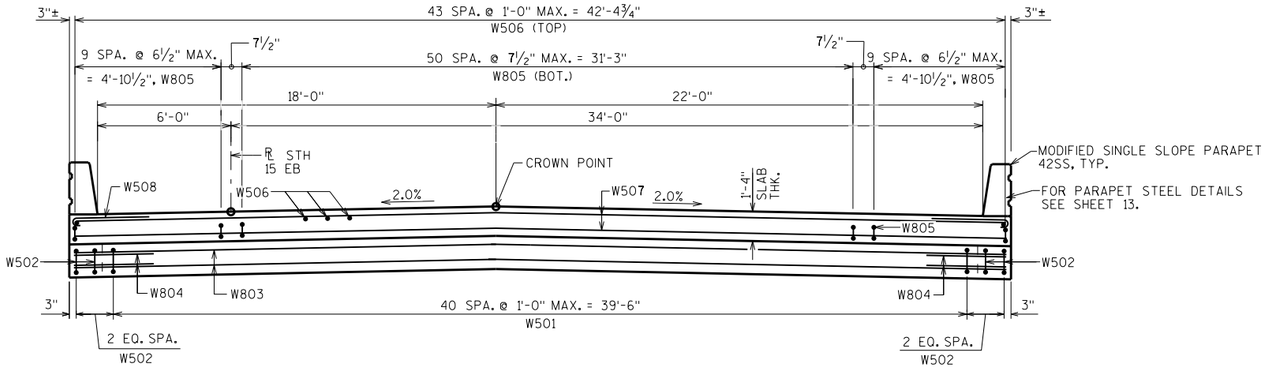
W508



W805



SECTION THRU APPROACH SLAB



CROSS SECTION THRU APPROACH SLAB

(LOOKING EAST)

▲ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

◐ APPLY PROTECTIVE SURFACE TREATMENT TO PAVING NOTCH SURFACES PRIOR TO POURING STRUCTURAL APPROACH SLAB.

◪ MEASURED NORMAL TO ABUTMENT

(T02) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE LENGTH OF THE FOOTING.

(T03) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE LENGTH OF THE SUBGRADE.

◒ CONST. JOINT - STRIKE OFF AS SHOWN.

◆ THRIE BEAM GUARD ATTACHMENT LOCATION

DESIGN DATA

ALLOWABLE SOIL BEARING PRESSURE	2,000 P.S.F
CONCRETE STRENGTH f'c	4,000 P.S.I.
BAR STEEL REINFORCMENT, GRADE 60	fy = 60,000 P.S.I.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-293

DRAWN BY JJS | PLANS CK'D. SEW

WEST STRUCTURAL APPROACH SLAB

SHEET 14

354

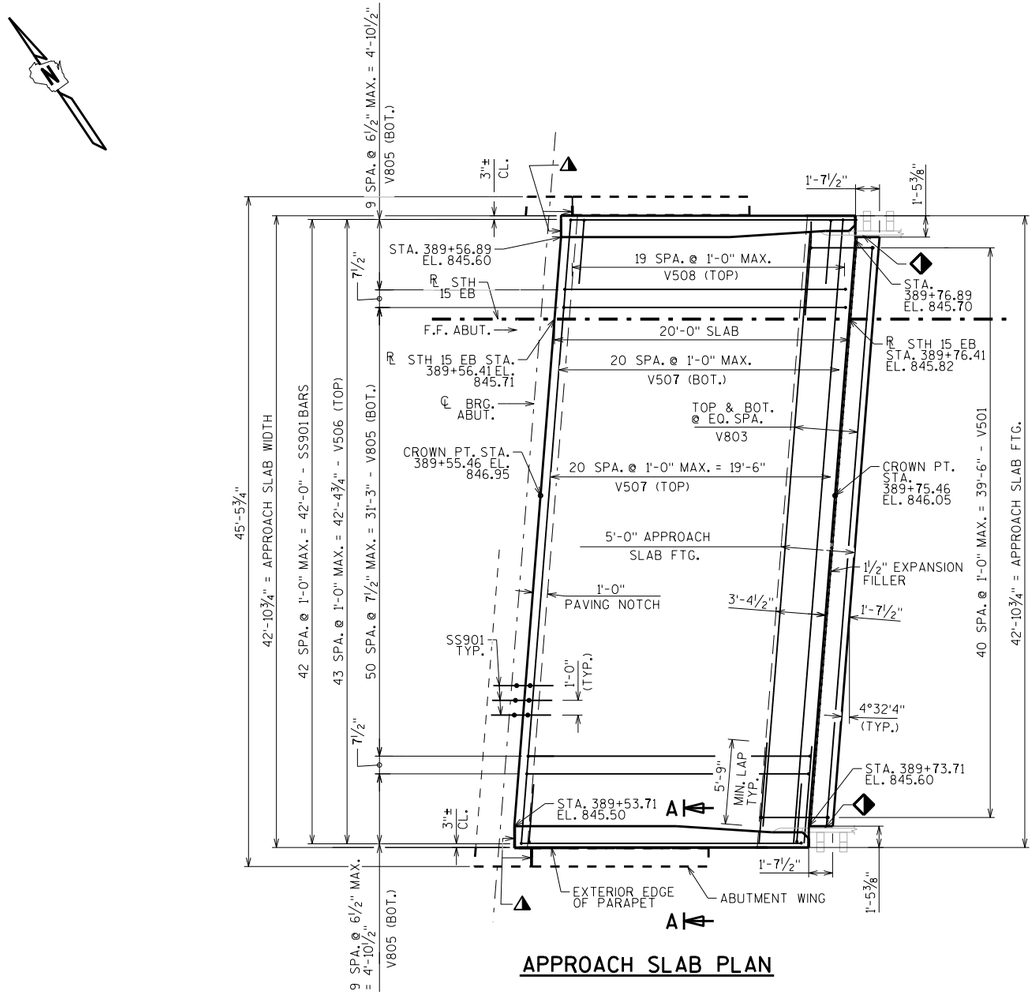
SCALE = 5.00

8

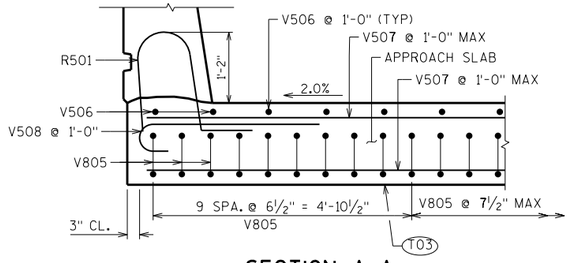
8

STATE PROJECT NUMBER

1146-75-71



APPROACH SLAB PLAN



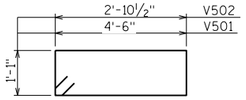
SECTION A-A

(NORTH END SIMILAR)

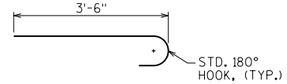
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
V501	X	41	11'-10"	X	FOOTING - STIRRUP
V502	X	4	8'-7"	X	FOOTING - STIRRUP ENDS
V803	X	12	39'-9"		FOOTING - TRANS. - TOP & BTM.
V804	X	16	7'-2"		FOOTING END - TRANS.
V805	X	71	21'-5"	X	SLAB - LONGIT. - BTM.
V506	X	44	19'-6"		SLAB - LONGIT. - TOP
V507	X	42	42'-6"		SLAB - TRANS. - TOP & BOT.
V508	X	40	4'-1"	X	SLAB END - BTWN. V507 - TRANS.



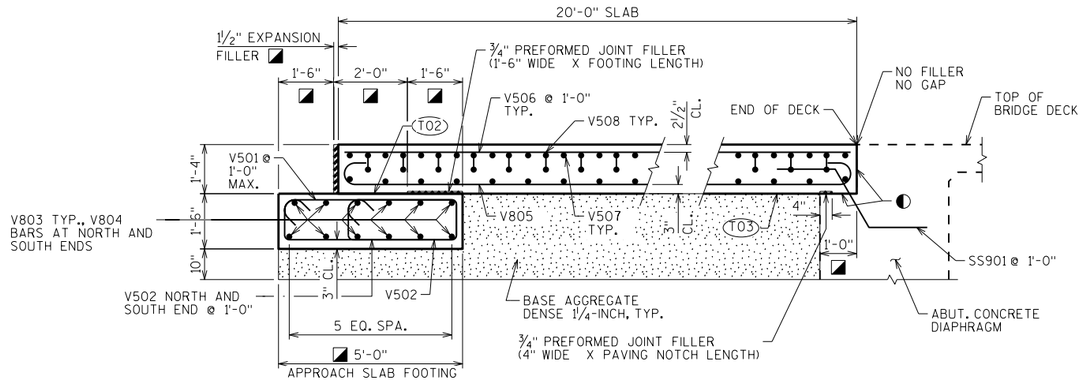
V501, V502



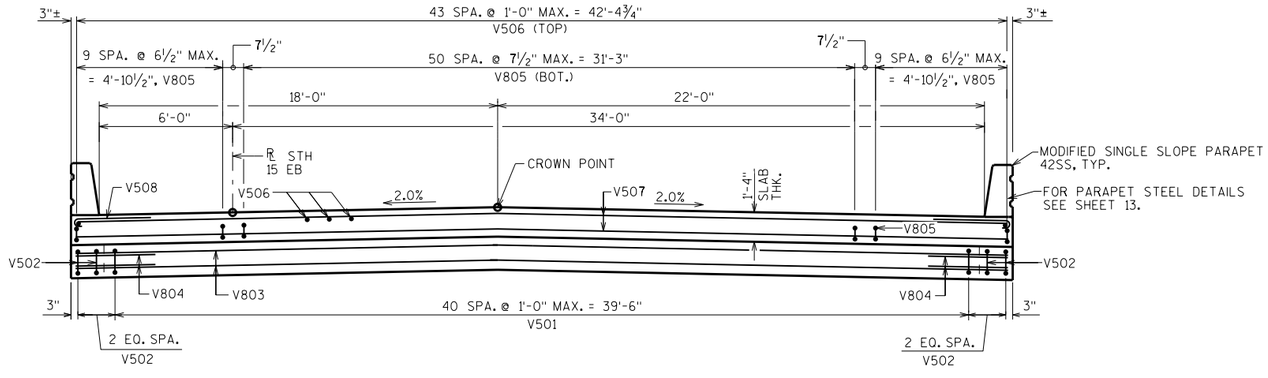
V508



V805



SECTION THRU APPROACH SLAB



CROSS SECTION THRU APPROACH SLAB

(LOOKING EAST)

◐ APPLY PROTECTIVE SURFACE TREATMENT TO PAVING NOTCH SURFACES PRIOR TO POURING STRUCTURAL APPROACH SLAB.

◪ MEASURED NORMAL TO ABUTMENT

(T02) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE LENGTH OF THE FOOTING.

(T03) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE LENGTH OF THE SUBGRADE.

◒ CONST. JOINT - STRIKE OFF AS SHOWN.

◆ THRIE BEAM GUARD ATTACHMENT LOCATION

⚠ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

DESIGN DATA

ALLOWABLE SOIL BEARING PRESSURE	2,000 P.S.F.
CONCRETE STRENGTH f'c	4,000 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60 f'y	= 60,000 P.S.I.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-293

DRAWN BY JJS | PLANS CK'D. SEW

EAST STRUCTURAL APPROACH SLAB

SHEET 15

355

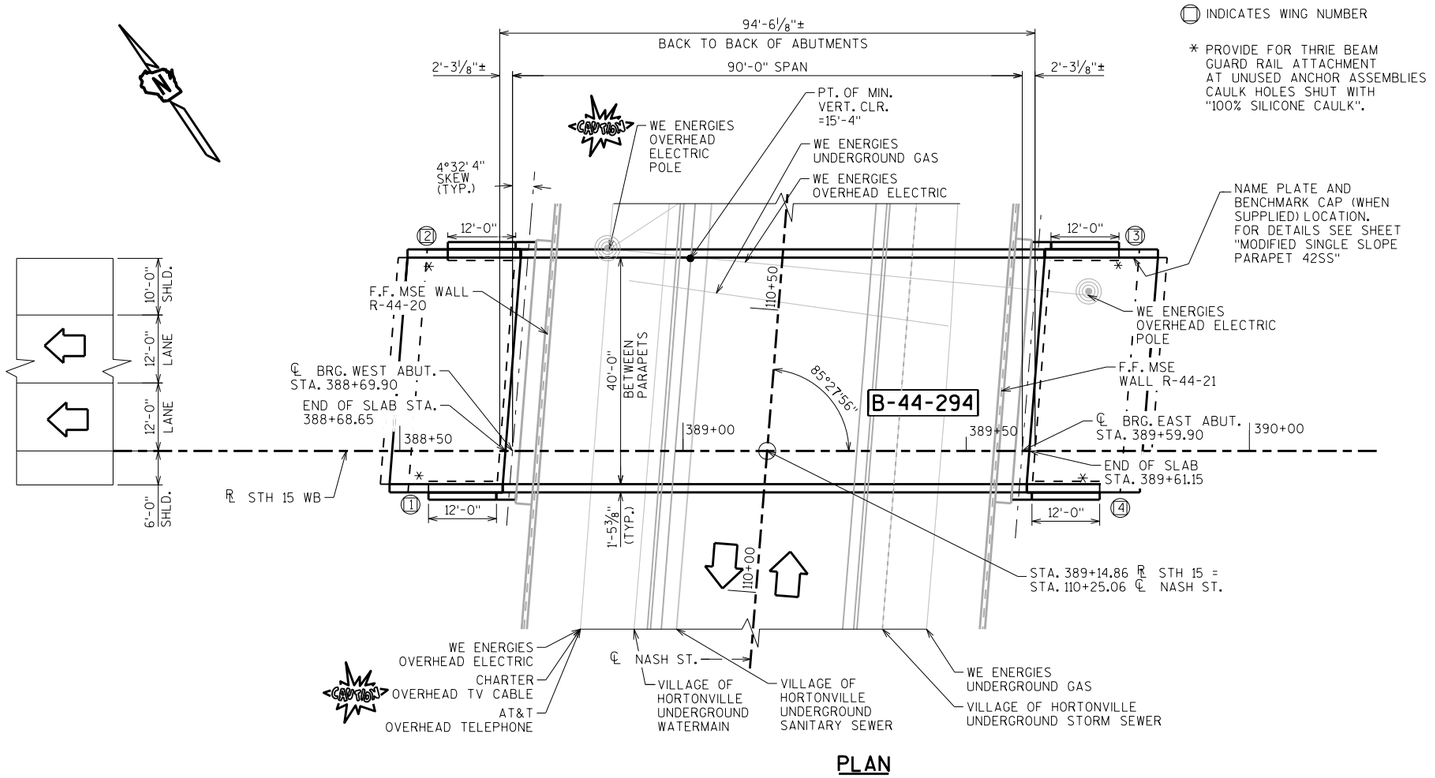
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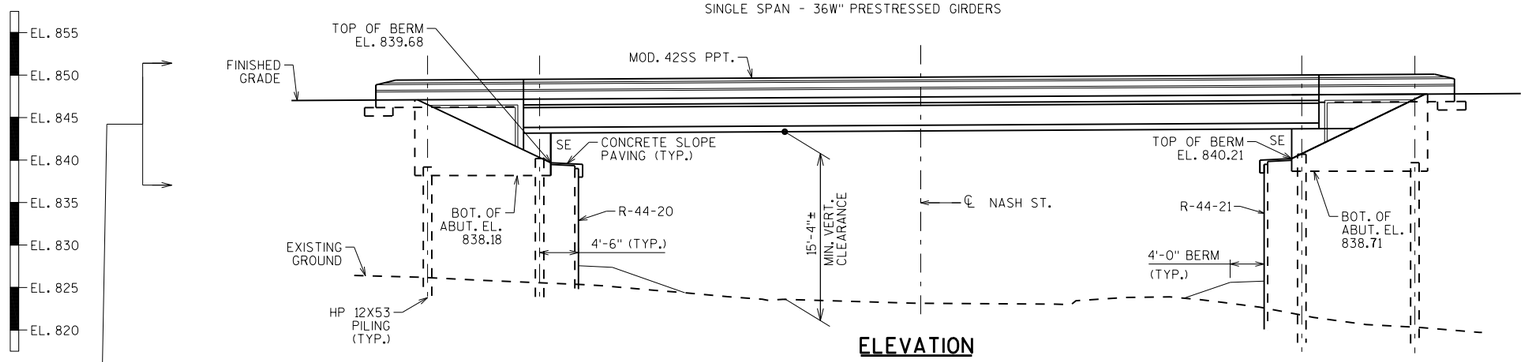
STATE PROJECT NUMBER

1146-75-71



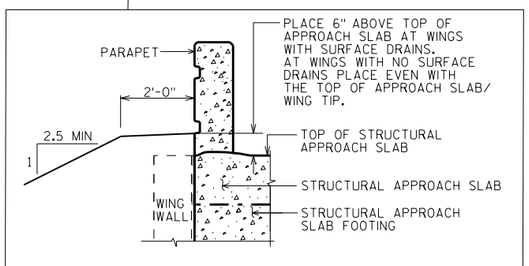
PLAN

SINGLE SPAN - 36W" PRESTRESSED GIRDERS

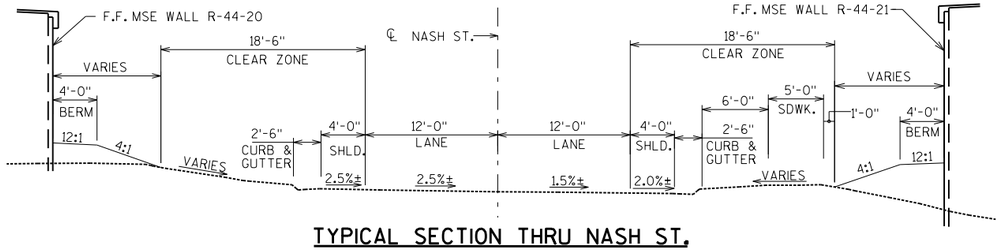


ELEVATION

NORMAL TO NASH ST. LOOKING NORTHEAST



TYPICAL FILL SECTION AT END OF STRUCTURAL APPROACH SLABS



TYPICAL SECTION THRU NASH ST.

NORMAL TO NASH ST. LOOKING NORTHEAST

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.10
OPERATING RATING FACTOR: RF = 1.60
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250(KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
SUPERSTRUCTURE & STRUCTURAL APPROACH SLAB — f'c = 4,000 P.S.I.
ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
GRADE 60 — fy = 60,000 P.S.I.
STAINLESS, GRADE 60 — fy = 60,000 P.S.I.

36W" PRESTRESSED GIRDERS:
CONCRETE MASONRY — f'c = 8,000 P.S.I.
STRANDS: 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

STRUCTURAL CARBON STEEL:
ASTM A709, GRADE 36 — Fy = 36,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 12 X 53 PILING

DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 220 TONS** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 25'-0" LONG AT THE WEST ABUTMENT, PILE POINTS REQUIRED
ESTIMATED 25'-0" LONG AT THE EAST ABUTMENT, PILE POINTS REQUIRED

THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

STH 15 WB	NASH ST.
A.D.T.=15,000 (2040)	A.D.T.=1,500 (2040)
R.D.S.=60 M.P.H.	R.D.S.=30 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. SUBSURFACE EXPLORATION
4. WEST ABUTMENT
5. WEST ABUTMENT DETAILS
6. EAST ABUTMENT
7. EAST ABUTMENT DETAILS
8. 36W" PRESTRESSES GIRDER DETAILS 1
9. 36W" PRESTRESSED GIRDER DETAILS 2
10. STEEL DIAPHRAGM
11. SUPERSTRUCTURE
12. SUPERSTRUCTURE DETAILS
13. MODIFIED SINGLE SLOPE PARAPET 42SS
14. WEST STRUCTURAL APPROACH SLAB
15. EAST STRUCTURAL APPROACH SLAB

STRUCTURE DESIGN CONTACTS:

JOHN SENDOR (608) 266-5163
DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED DMB 01/06/21
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-44-294

STH 15 WB OVER NASH ST.

COUNTY	VILLAGE
OUTAGAMIE	HORTONVILLE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
JJS	JRS	JJS	SEW

GENERAL PLAN

SHEET 1 OF 15

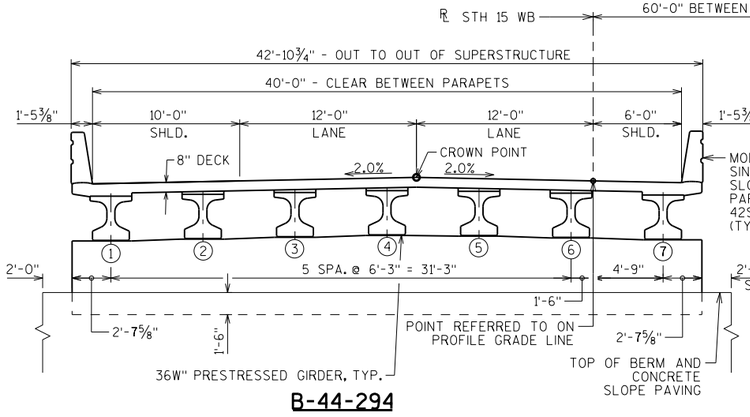
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I.D. 1146-75-00BC DATE: JAN. 2021

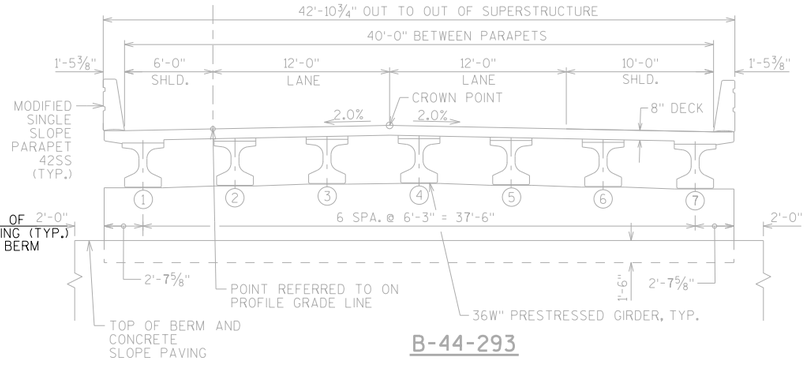
SCALE = 13.00

STATE PROJECT NUMBER

1146-75-71



B-44-294



B-44-293

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE TYPICAL SECTION SHOWN IN THE PLANS.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE AND THE TOP OF STRUCTURAL APPROACH SLABS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS.

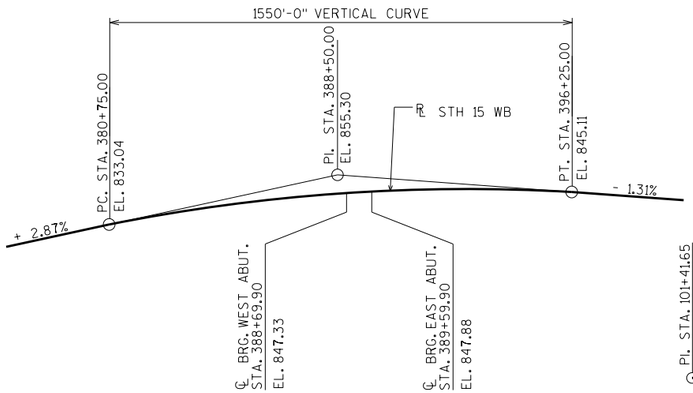
THE SLOPE OF FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.

THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF B-44-294 WITH RETAINING WALLS R-44-20 AND R-44-21.

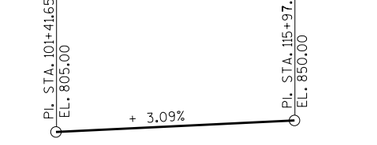
◯ INDICATES GIRDER NUMBER

CROSS SECTION THRU ROADWAY

(LOOKING EAST)

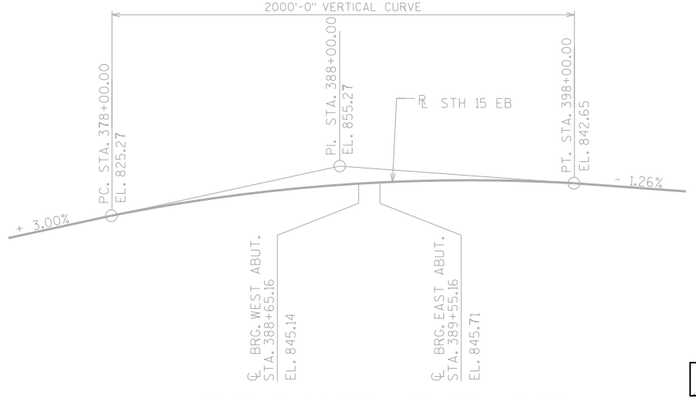


PROFILE GRADE LINE STH 15 WB

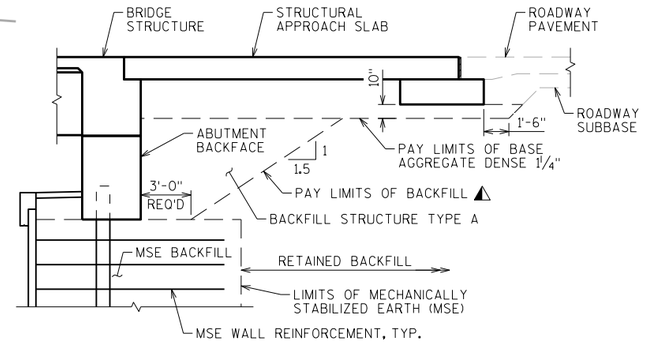


PROFILE GRADE LINE NASH ST.

(FOR INFORMATION ONLY)



PROFILE GRADE LINE STH 15 EB

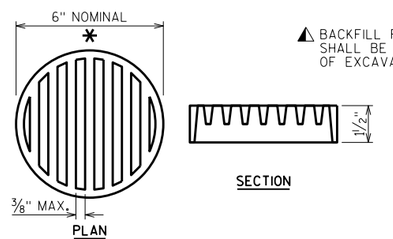


TYPICAL SECTION THRU ABUTMENT

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	WEST APPROACH	WEST ABUT.	EAST ABUT.	EAST APPROACH	TOTALS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-44-294	LS	———	———	———	———	———	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	———	———	129	129	———	258
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	———	133	———	———	133	266
502.0100	CONCRETE MASONRY BRIDGES	CY	177	61	50	50	61	399
502.3200	PROTECTIVE SURFACE TREATMENT	SY	433	90	———	———	90	613
502.3210	PIGMENTED SURFACE SEALER	SY	90	21	———	———	21	132
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF	637	———	———	———	———	637
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	———	———	2,585	2,585		5,170
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	26,515	10,265	1,510	1,510	10,265	50,065
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	1,470	———	———	———	———	1,470
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	14	———	———	———	———	14
506.4000	STEEL DIAPHRAGMS B-44-294	EACH	12	———	———	———	———	12
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	———	———	14	14	———	28
550.0500	PILE POINTS	EACH	———	———	10	10	———	20
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF	———	———	250	250	———	500
604.0400	SLOPE PAVING CONCRETE	SY	———	———	15	15	———	30
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	4	———	———	———	———	4
	NON-BID ITEMS							
	FILLER	SIZE	———	———	———	———	———	½", ¾", 1½"



RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-294

DRAWN BY JJS | PLANS CK'D. SEW

CROSS SECTION & QUANTITIES

SHEET 2

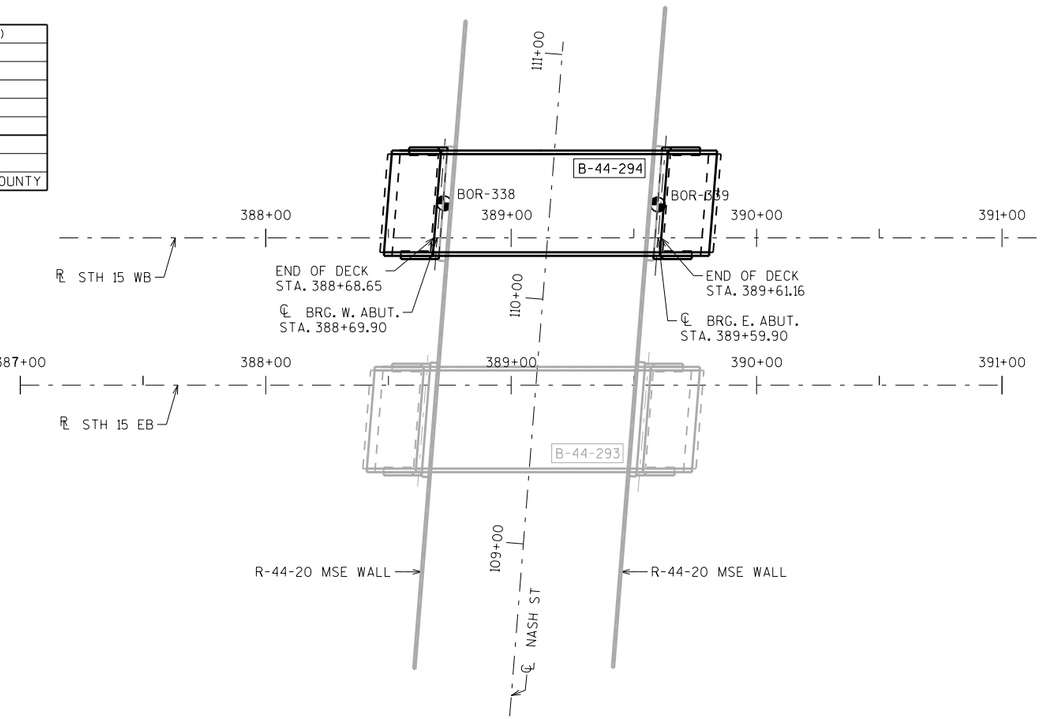
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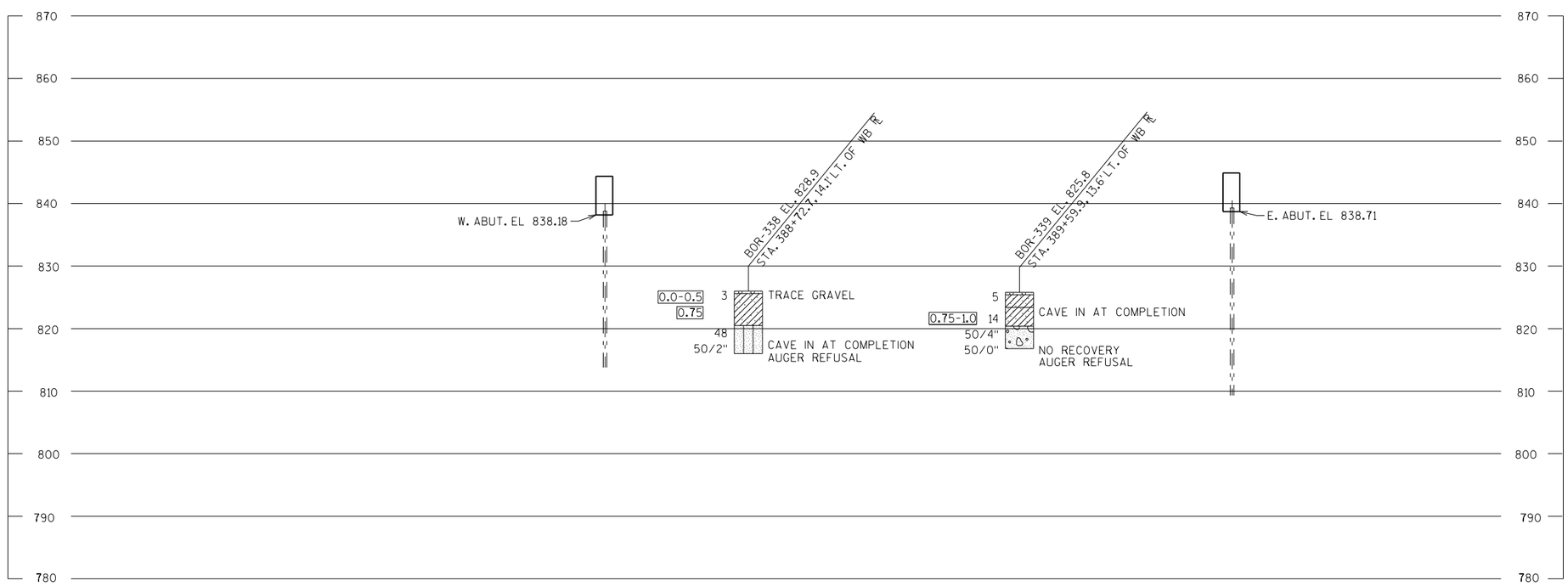
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8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
338	3/31/2014	591959	768840
339	3/31/2014	591910	768912
BORINGS COMPLETED BY: GESTRA			
REPORT COMPLETED BY: CH2M HILL			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY			





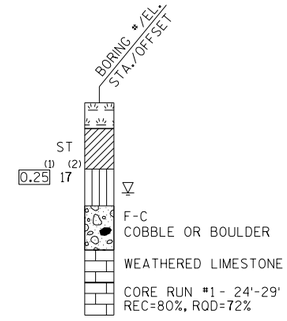
STATE PROJECT NUMBER

1146-75-71

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-294

DRAWN BY JJS | PLANS CK'D. SEW

SUBSURFACE EXPLORATION

SHEET 3

358

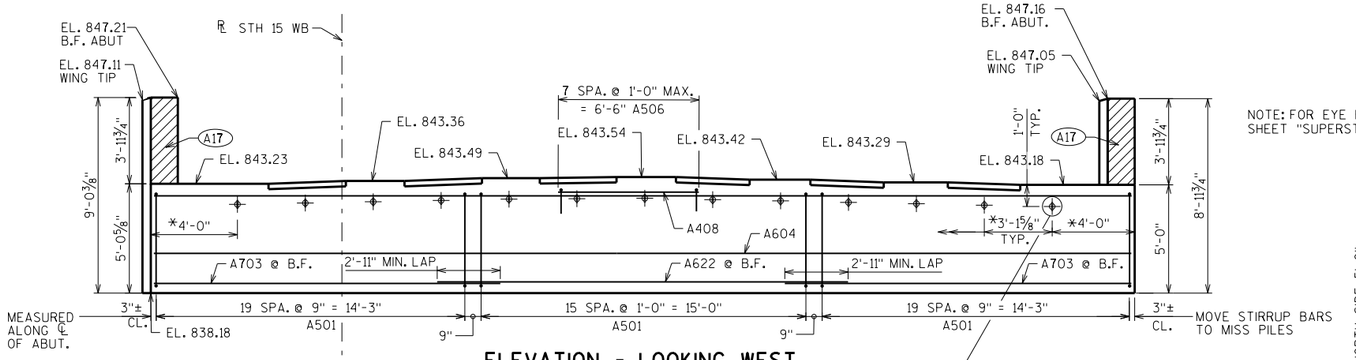
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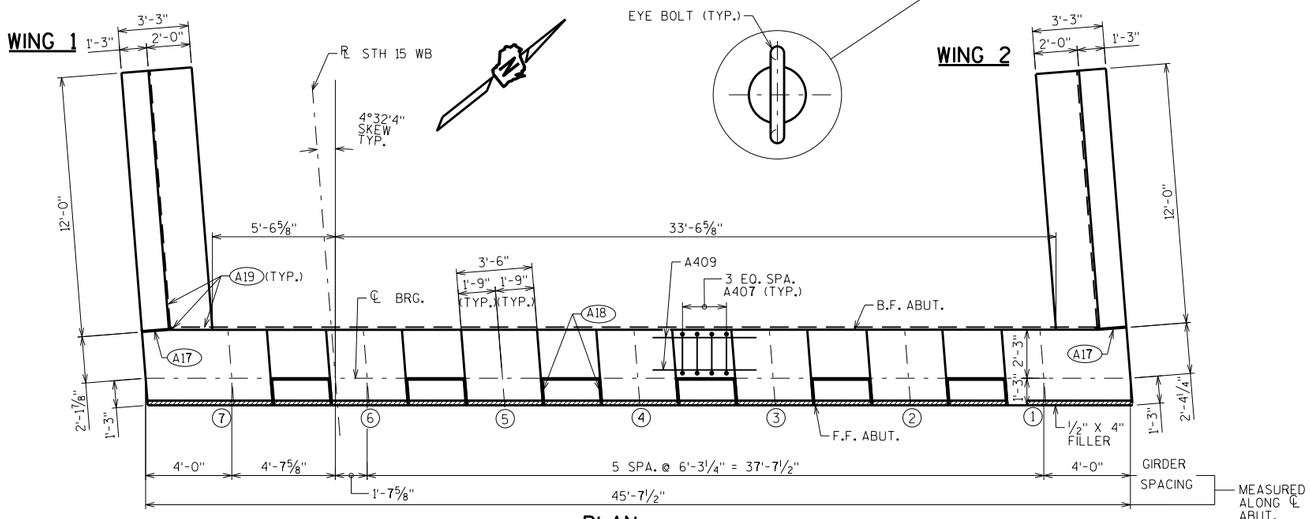
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STATE PROJECT NUMBER

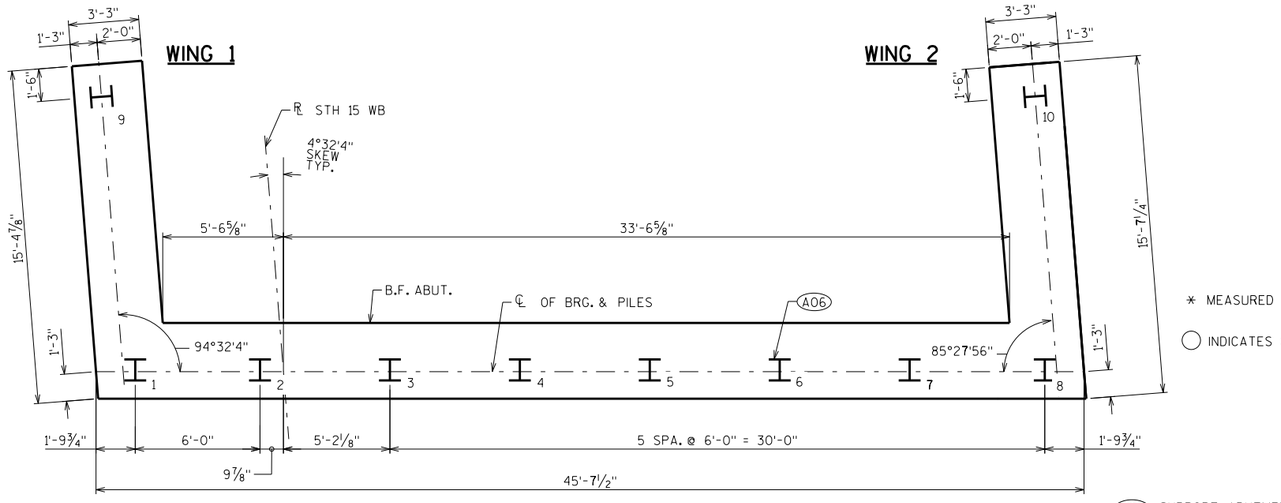
1146-75-71



ELEVATION - LOOKING WEST

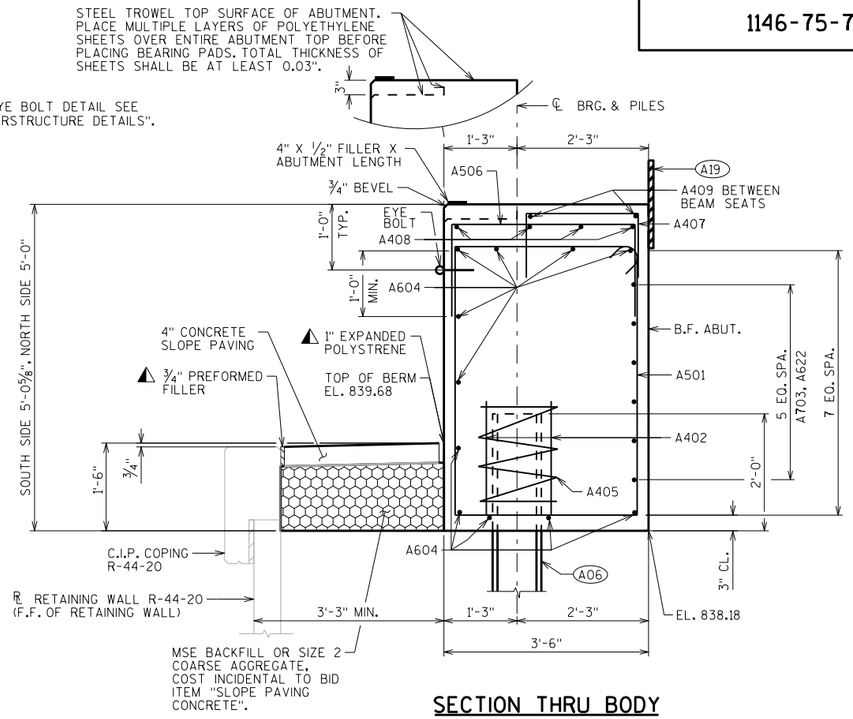


PLAN



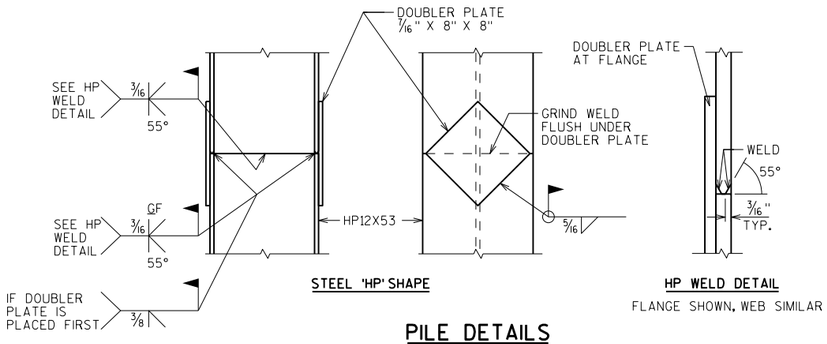
PILE PLAN

NOTE: FOR EYE BOLT DETAIL SEE SHEET "SUPERSTRUCTURE DETAILS".



SECTION THRU BODY

⚠ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER AND EXPANDED POLYSTYRENE WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).



STEEL 'HP' SHAPE

HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

PILE DETAILS

* MEASURED ALONG F.F. ABUT.

◯ INDICATES GIRDER NUMBER

(A06) SUPPORT ABUTMENT ON HP 12 x 53 STEEL PILING, ESTIMATED 25'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-294

DRAWN BY JJS | PLANS CK'D. SEW

WEST ABUTMENT

SHEET 4

359

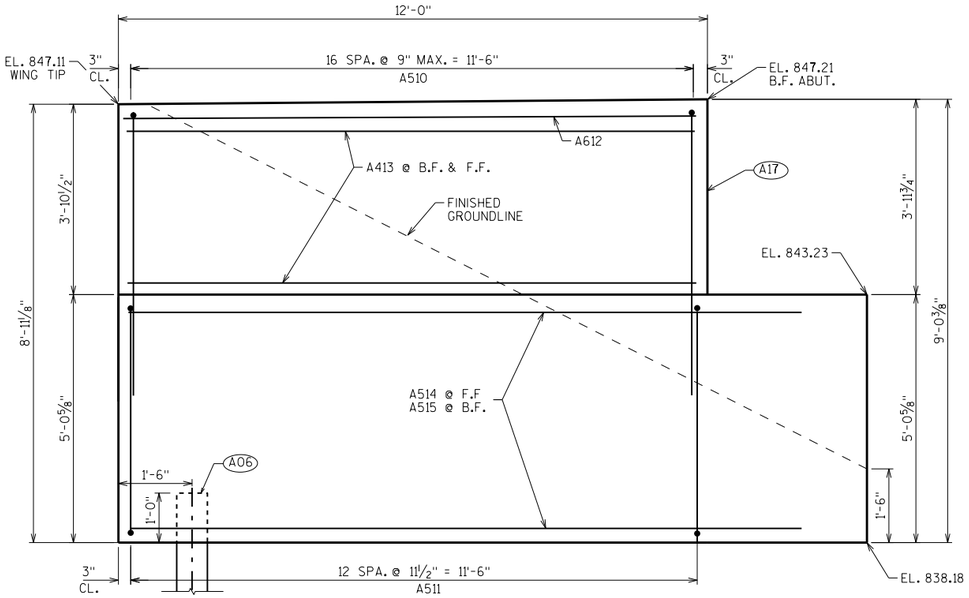
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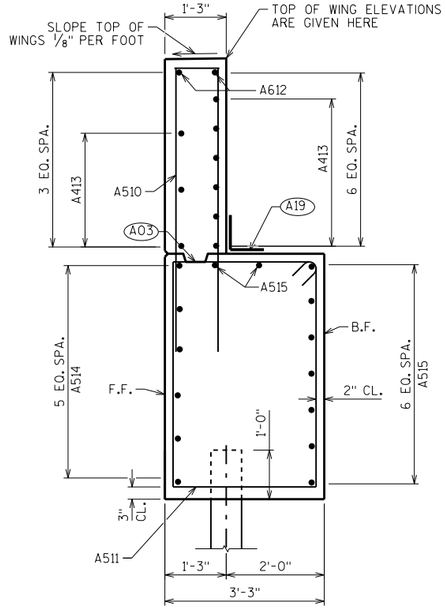
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STATE PROJECT NUMBER

1146-75-71



WING 1 ELEVATION

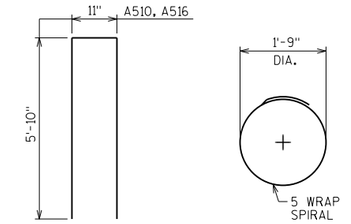


WING 1 SECTION

BILL OF BARS

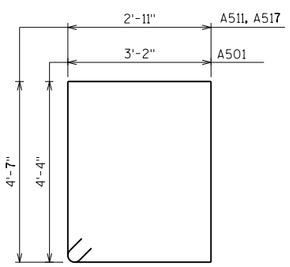
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A501		56	15'-8"	X		BODY- STIRRUPS
A402		16	2'-3"			BODY-VERT- AT BODY PILES
A703		12	16'-0"			BODY-HORIZ. B.F.
A604		11	45'-3"			BODY-HORIZ.
A405		8	28'-0"	X		BODY-VERT. AT BODY PILES
A506		8	6'-3"	X		BODY-VERT. UND. BM. SEAT 4
A407		24	4'-7"	X		BODY-VERT. BTWN. BM. SEAT
A408		4	6'-8"			BODY HORIZ. UND. BM. SEAT 4
A409		12	4'-10"			BODY HORIZ. BTWN. BM. SEAT
A510	X	17	12'-4"	X		WING 1- VERT. (UPPER)
A511	X	13	15'-8"	X		WING 1 STIRRUP
A612	X	2	11'-8"			WING 1 HORIZ. TOP
A413	X	9	11'-8"			WING 1 HORIZ. F.F. + B.F.
A514	X	6	13'-8"			WING 1 HORIZ. F.F.
A515	X	9	13'-9"			WING 1 HORIZ. B.F.
A516	X	17	12'-4"	X		WING 2- VERT. (UPPER)
A517	X	13	15'-8"	X		WING 2 STIRRUP
A618	X	2	11'-8"			WING 2 HORIZ. TOP
A419	X	9	11'-8"			WING 2 HORIZ. F.F. + B.F.
A520	X	6	13'-8"			WING 2 HORIZ. F.F.
A521	X	9	13'-9"			WING 2 HORIZ. B.F.
A622		6	19'-3"			BODY-HORIZ. B.F.

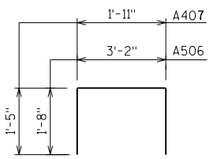


A510, A516

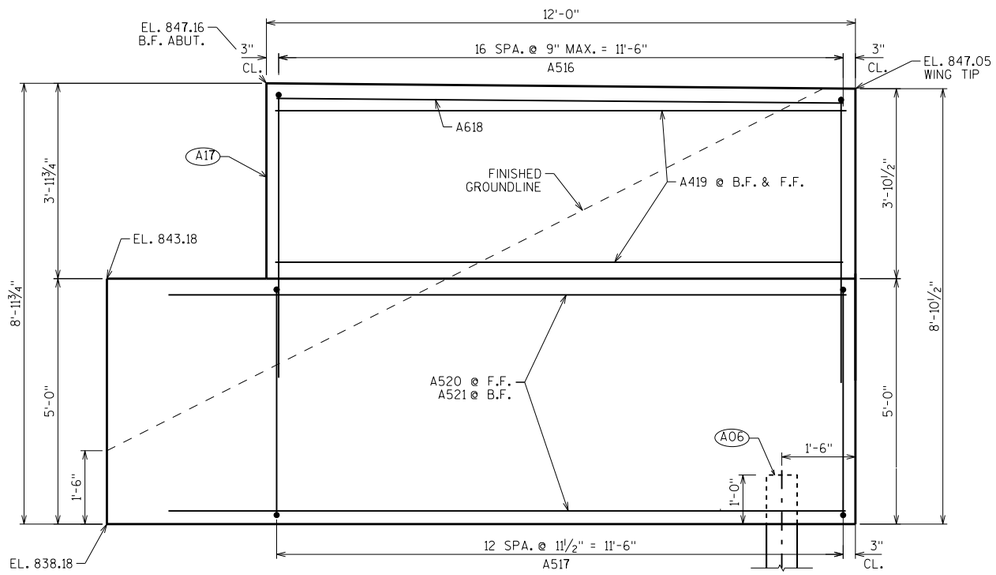
A405



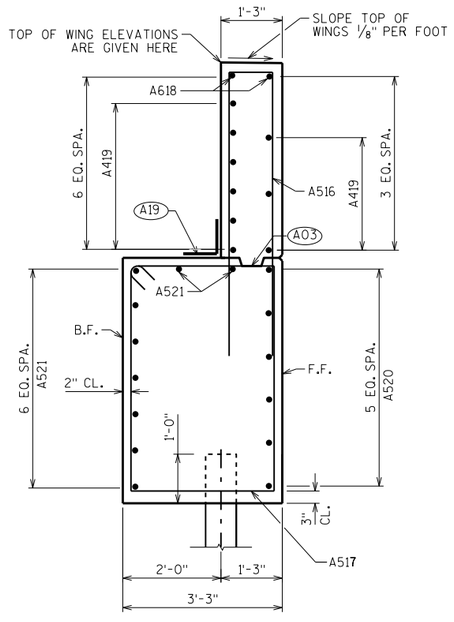
A501, A511, A517



A506, A407



WING 2 ELEVATION



WING 2 SECTION

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

(A06) SUPPORT WING WALL ON HP 12 x 53 STEEL PILING, ESTIMATED 25'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

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STRUCTURE B-44-294

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WEST ABUTMENT DETAILS

SHEET 5

360

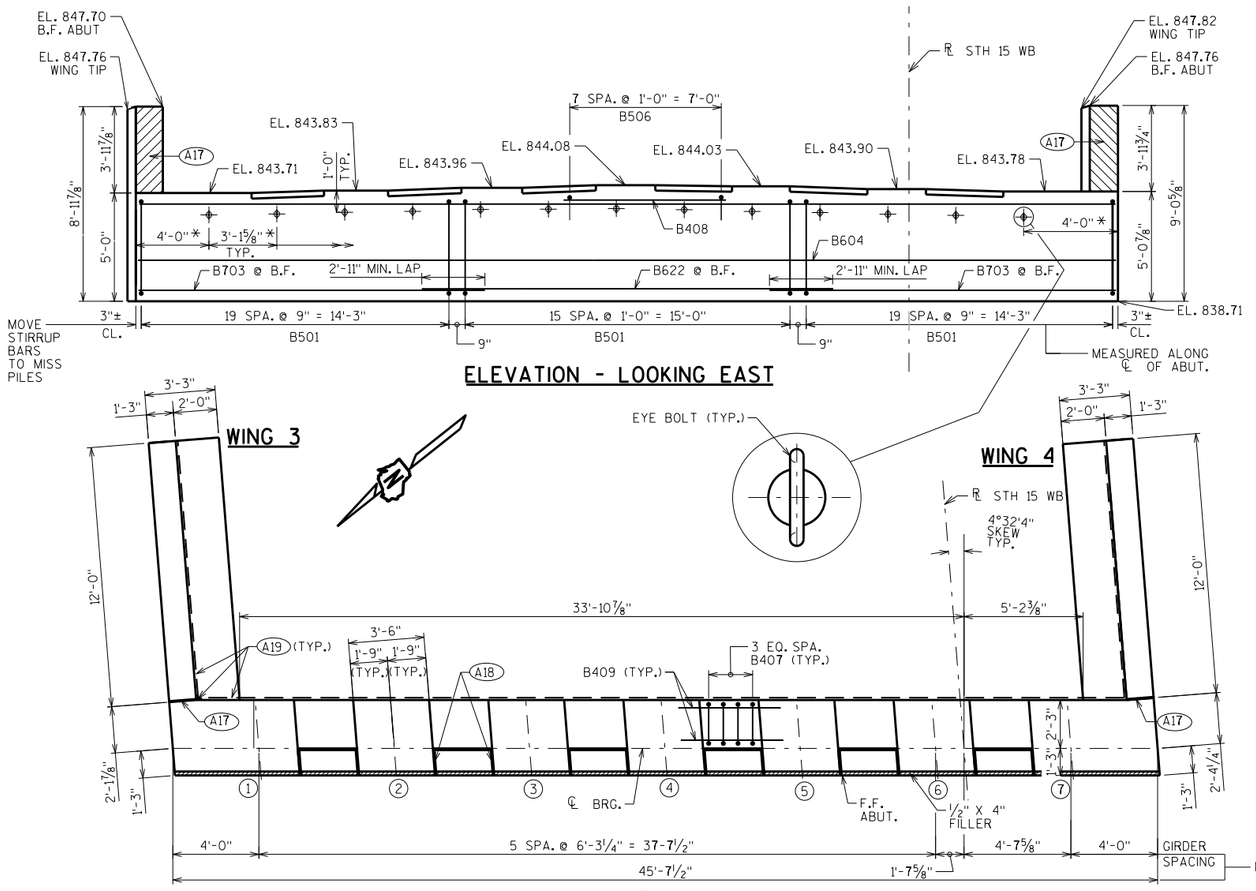
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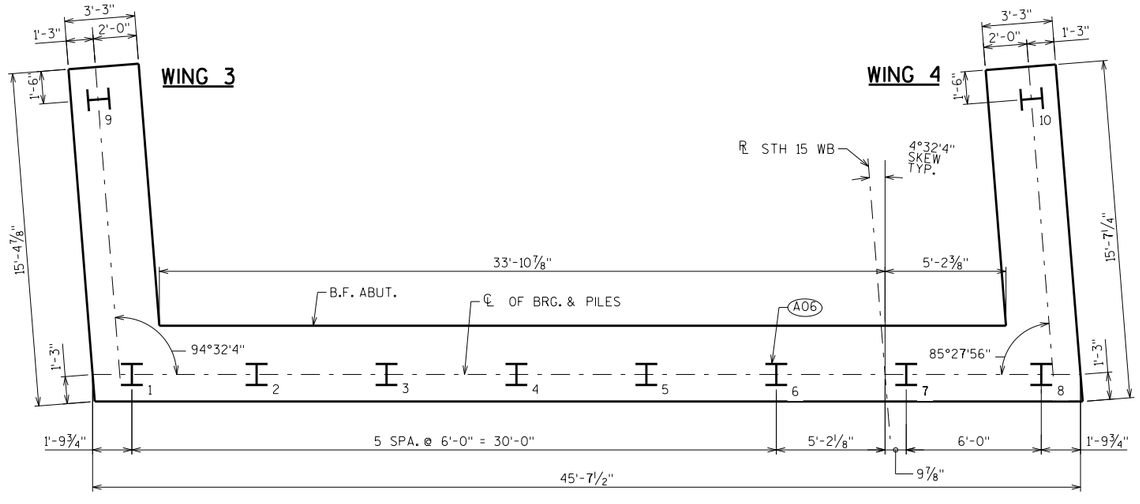
STATE PROJECT NUMBER

1146-75-71



ELEVATION - LOOKING EAST

PLAN

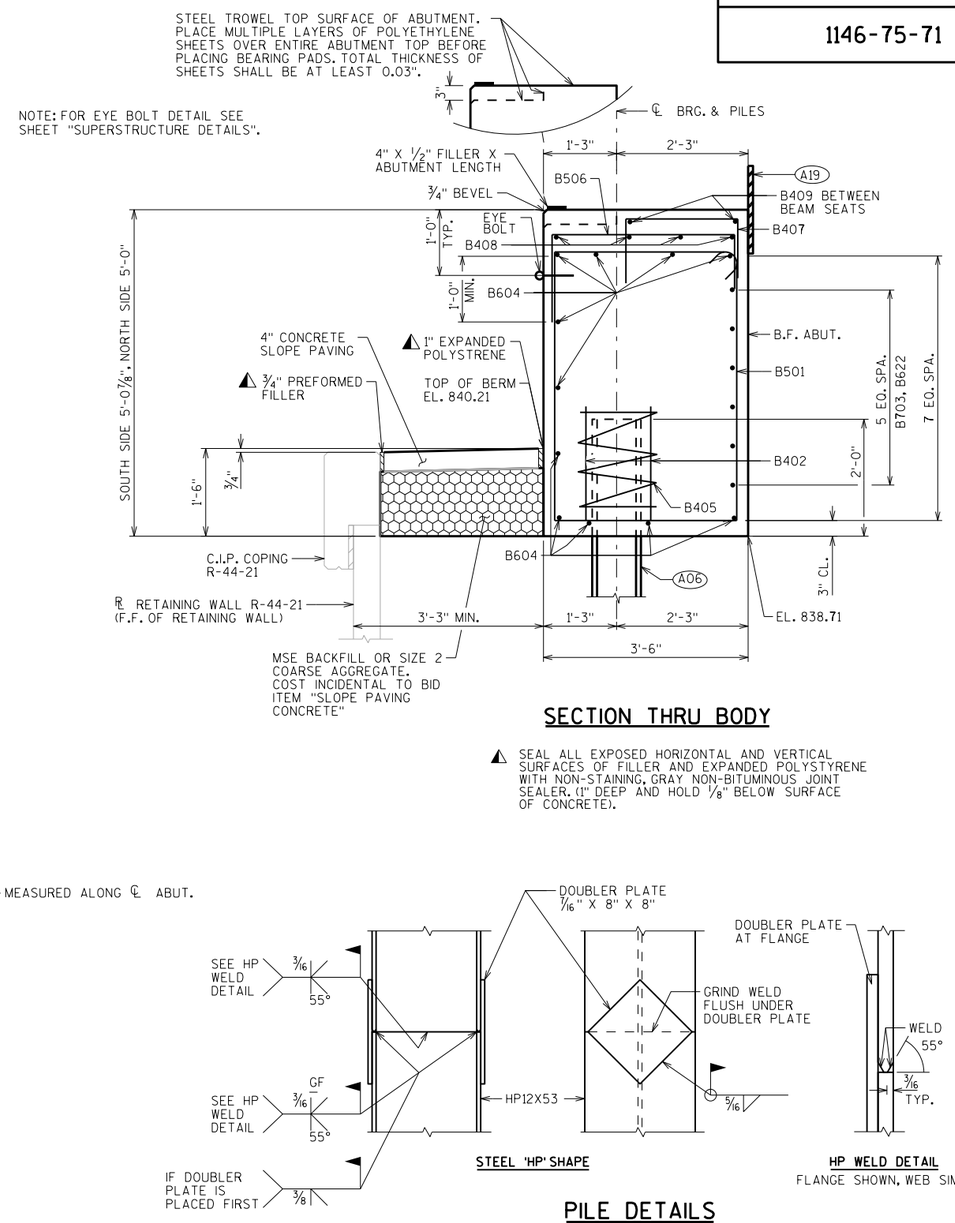


PILE PLAN

*MEASURED ALONG F.F. ABUT.

◯ INDICATES GIRDER NUMBER

(A06) SUPPORT ABUTMENT ON HP 12 x 53 STEEL PILING, ESTIMATED 25'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.



SECTION THRU BODY

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

⚠ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER AND EXPANDED POLYSTYRENE WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

STEEL 'HP' SHAPE

HP WELD DETAIL
FLANGE SHOWN, WEB SIMILAR

PILE DETAILS

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STRUCTURE B-44-294

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EAST ABUTMENT

SHEET 6

361

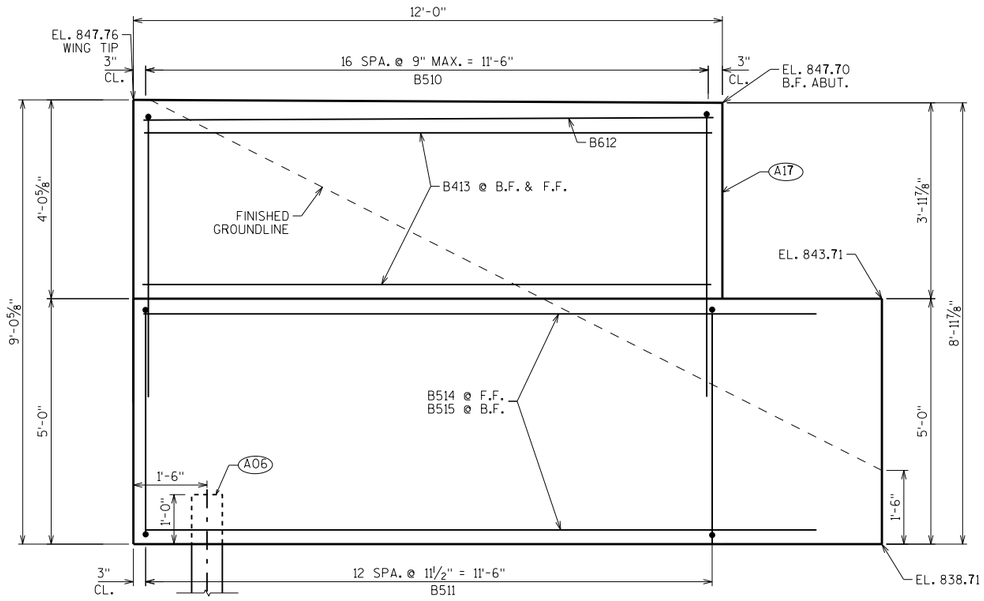
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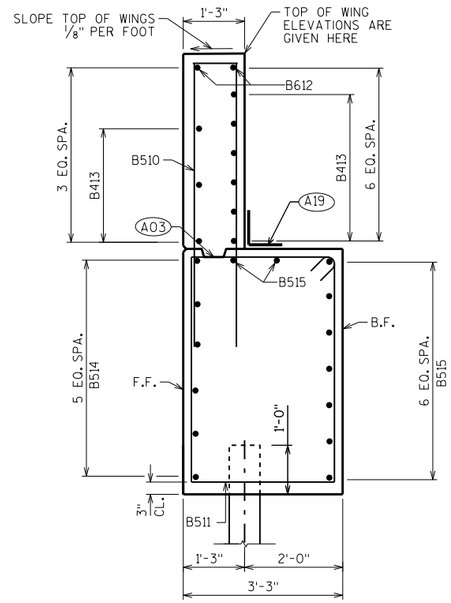
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STATE PROJECT NUMBER

1146-75-71



WING 3 ELEVATION

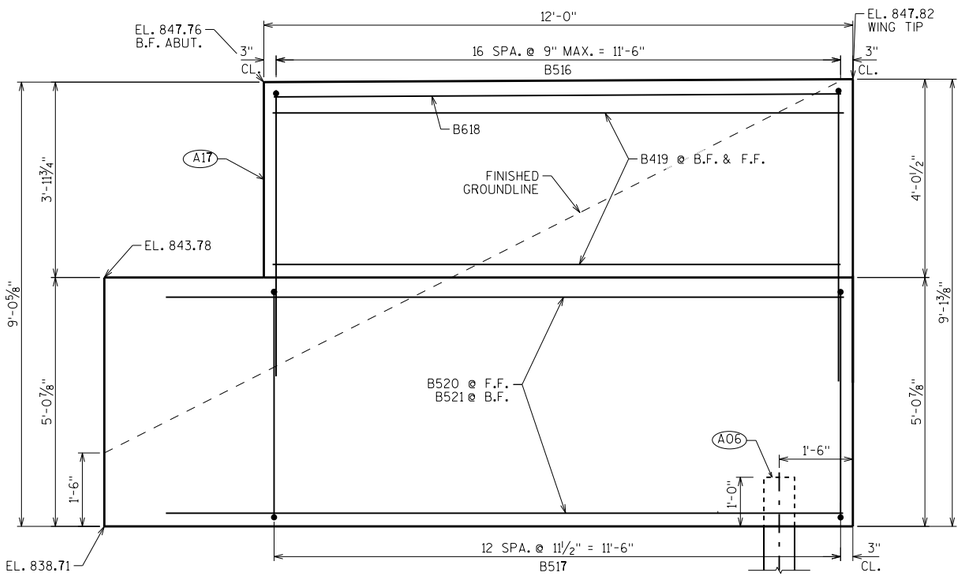


WING 3 SECTION

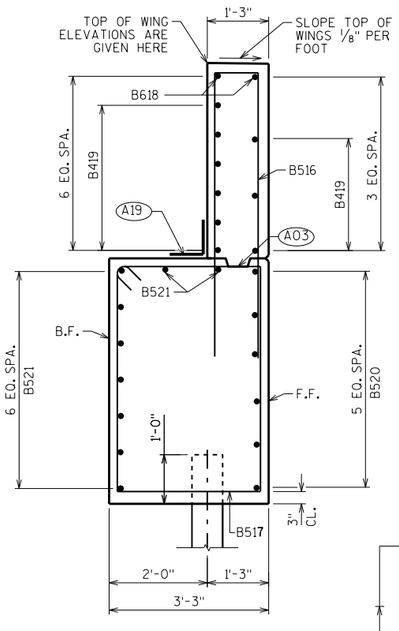
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

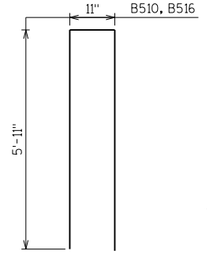
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		56	15'-8"	X		BODY- STIRRUPS
B402		16	2'-3"			BODY-VERT- AT BODY PILES
B703		12	16'-0"			BODY-HORIZ. B.F.
B604		11	45'-3"			BODY-HORIZ.
B405		8	28'-0"	X		BODY-VERT. AT BODY PILES
B506		8	6'-3"	X		BODY-VERT. UND. BM. SEAT 4
B407		24	4'-7"	X		BODY-VERT. BTWN. BM. SEAT
B408		4	7'-2"			BODY HORIZ. UND. BM. SEAT 4
B409		12	4'-10"			BODY HORIZ. BTWN. BM. SEAT
B510	X	17	12'-6"	X		WING 3- VERT. (UPPER)
B511	X	13	15'-8"	X		WING 3 STIRRUP
B612	X	2	11'-8"			WING 3 HORIZ. TOP
B413	X	9	11'-8"			WING 3 HORIZ. F.F. + B.F.
B514	X	6	13'-8"			WING 3 HORIZ. F.F.
B515	X	9	13'-9"			WING 3 HORIZ. B.F.
B516	X	17	12'-6"	X		WING 4- VERT. (UPPER)
B517	X	13	15'-8"	X		WING 4 STIRRUP
B618	X	2	11'-8"			WING 4 HORIZ. TOP
B419	X	9	11'-8"			WING 4 HORIZ. F.F. + B.F.
B520	X	6	13'-8"			WING 4 HORIZ. F.F.
B521	X	9	13'-8"			WING 4 HORIZ. B.F.
B622		6	19'-3"			BODY-HORIZ. B.F.



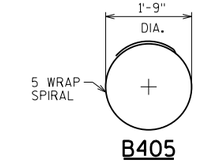
WING 4 ELEVATION



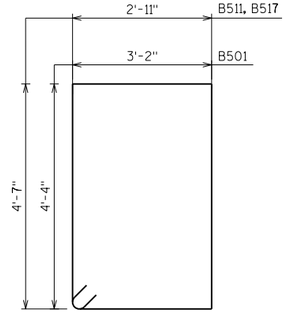
WING 4 SECTION



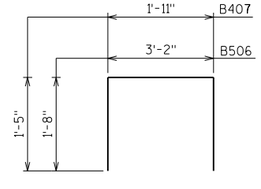
B510, B516



B405



B501, B511, B517



B506, B407

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 × 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

(A06) SUPPORT WINGWALL ON HP 12 × 53 STEEL PILING, ESTIMATED 25'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

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(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER, (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-294

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EAST ABUTMENT DETAILS

SHEET 7

362

SCALE = 1.50

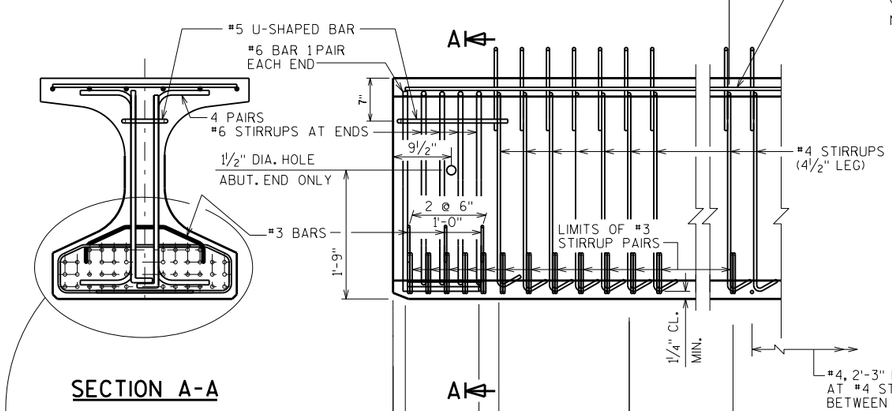
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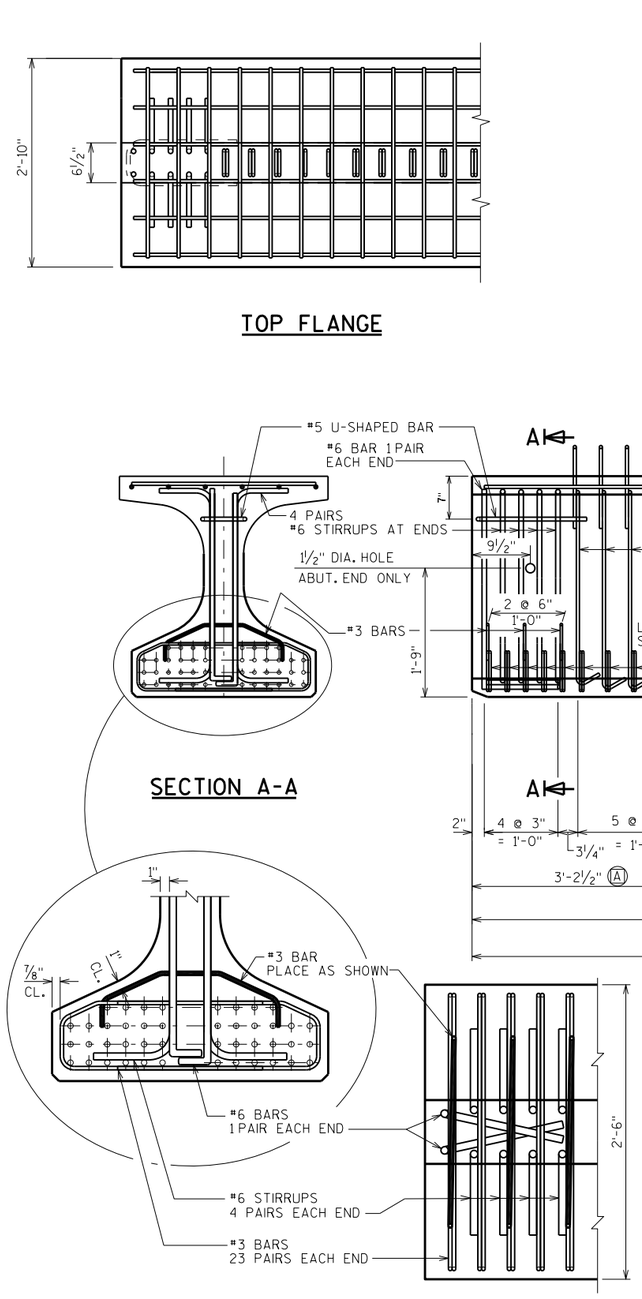
STATE PROJECT NUMBER

1146-75-71

TOP FLANGE



SECTION A-A

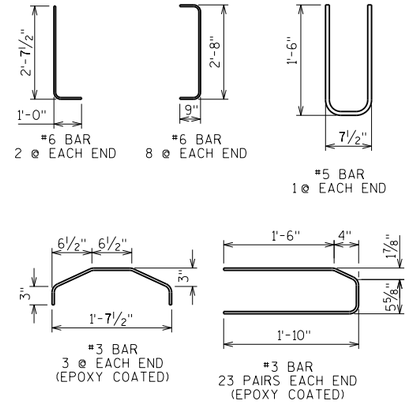


SIDE VIEW & TYPICAL SECTION IN SPAN

Ⓐ DETAIL TYP. AT EACH END

Ⓑ 6 #4 BARS, FULL LENGTH, MIN. LAP = 1'-11"

BOTTOM FLANGE



NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS. SEE SECT. 503.3.3 OF STANDARD SPECIFICATIONS FOR GUIDANCE.

STRANDS SHALL BE FLUSH WITH END OF GIRDER. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, GRADE 2, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE (0.6" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI.

FOR DIAPHRAGM SPACING, INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.

✳ MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.)									CONC. STRGTH. f'c (p.s.i.)	"P" 1ST ⅓ OF GIRDER	"P" MID ⅓ OF GIRDER	"P" END ⅓ OF GIRDER	DIA. OF STRAND (IN.)	DRAPED PATTERN						UNDRAPED PATTERN	
			1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10						TOTAL NO. OF STRANDS	f'ci (P.S.I.) ✳	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	TOTAL NO. OF STRANDS	f'ci (P.S.I.) ✳
1	1-7	91	0.6	1.1	1.5	1.8	1.9	1.8	1.5	1.1	0.6	8,000	8	7	8	0.6	30	6,800	32	11	14	4		

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STRUCTURE B-44-294

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36W" PRESTRESSED GIRDER DETAILS 1

SHEET 8

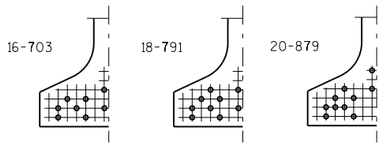
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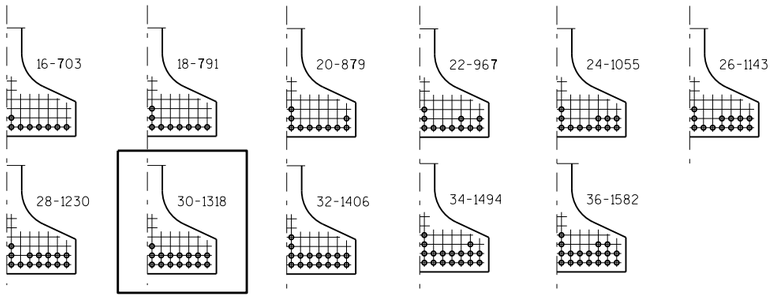
STATE PROJECT NUMBER

1146-75-71



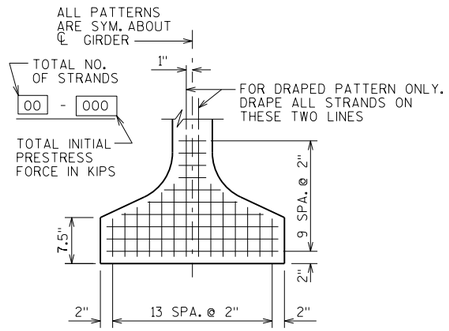
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6" DIA. STRANDS

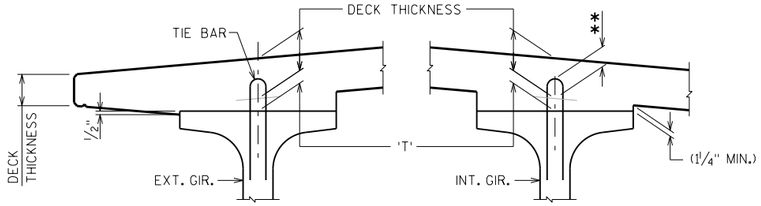


ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6" DIA. STRANDS



TYP. STRAND PATTERN



DECK HAUNCH DETAIL

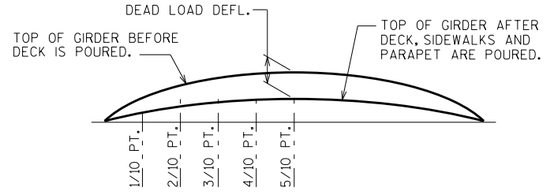
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

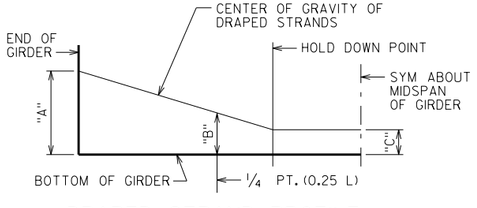
TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- DECK THICKNESS
= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 3.00" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".



DEAD LOAD DEFLECTION DIAGRAM



DRAPED STRAND PROFILE

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

SPAN	CAMBER (IN.) *
1	3.49

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

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STRUCTURES DESIGN SECTION

STRUCTURE B-44-294

DRAWN BY JJS | PLANS CK'D. SEW

36W" PRESTRESSED GIRDER DETAILS 2

SHEET 9

364

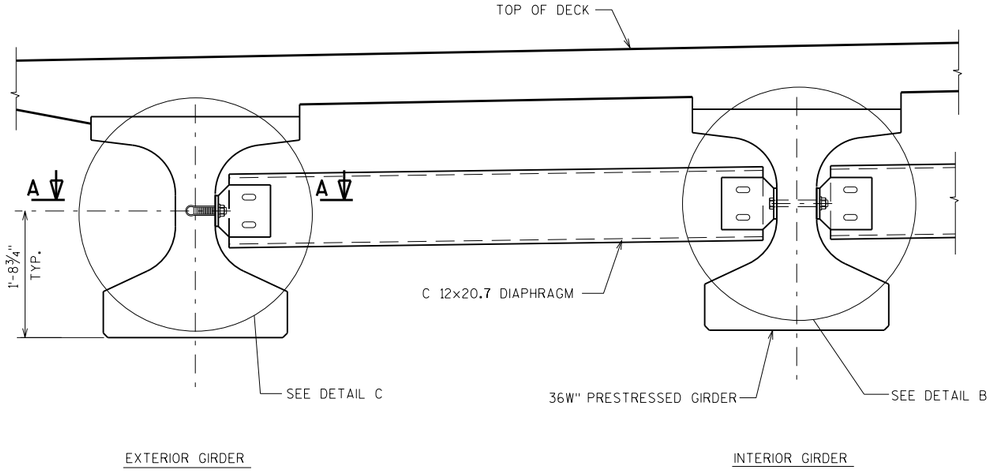
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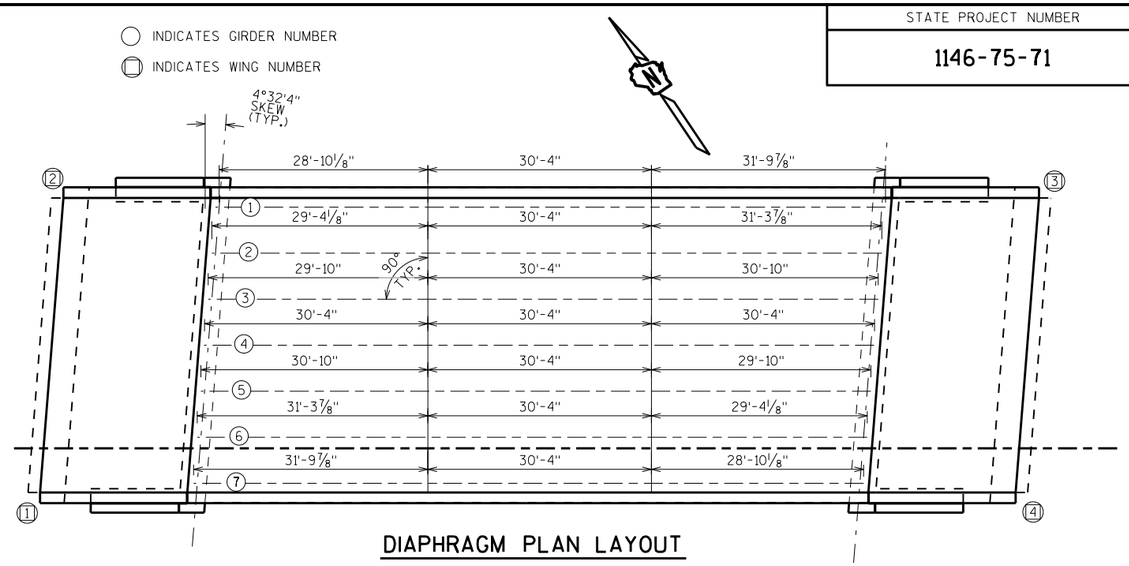
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STATE PROJECT NUMBER

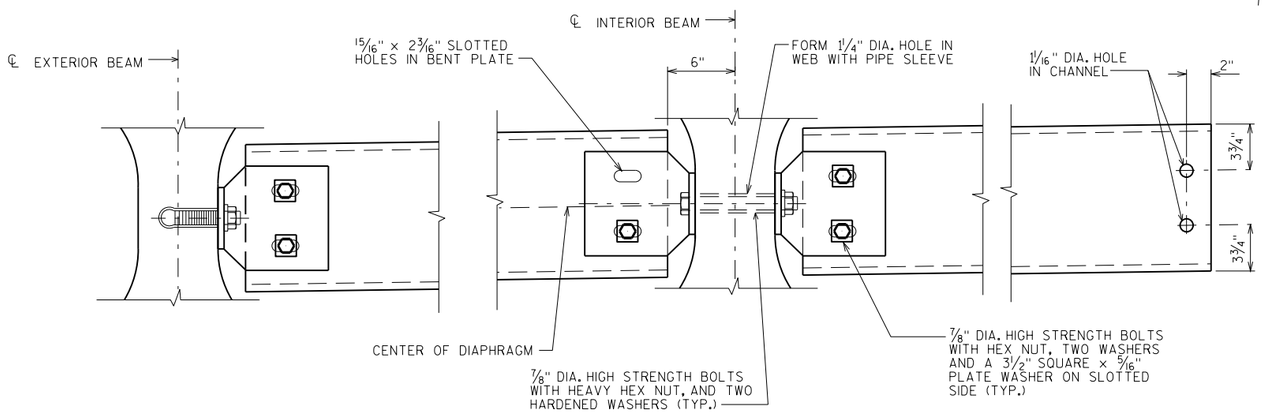
1146-75-71



PART TRANSVERSE SECTION AT DIAPHRAGM



DIAPHRAGM PLAN LAYOUT



DETAIL C

DETAIL B

NOTES

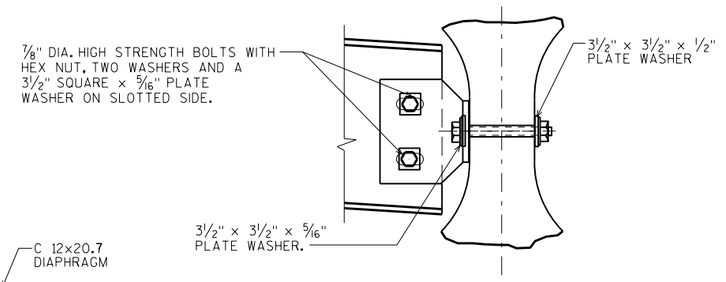
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-44-294", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

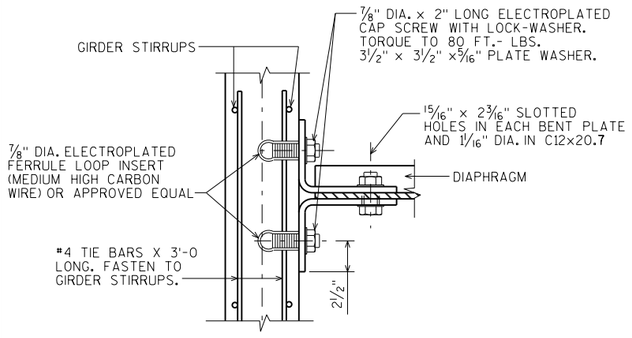
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

ALL DIAPHRAGM MATERIAL INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS ¼ TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.

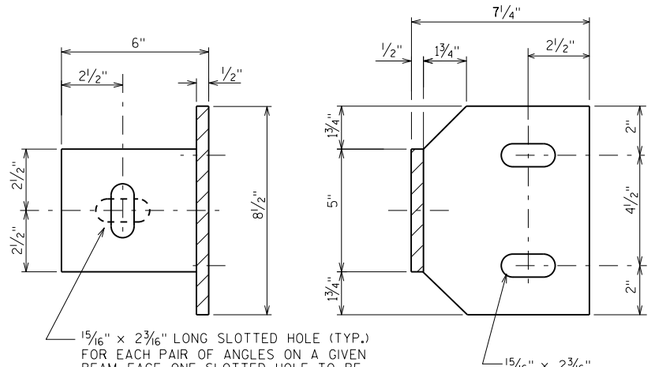


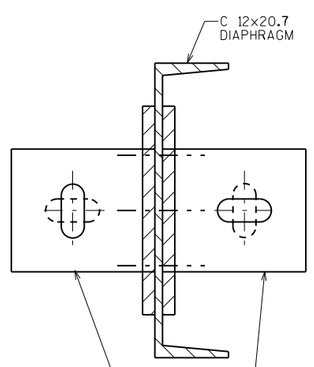
SECTION AT INTERIOR GIRDERS THRU DIAPHRAGM FOR SKEW ANGLES > 10°



SECTION A-A

(FOR EXTERIOR ATTACHMENT)





ATTACHMENT TO CHANNEL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-294

DRAWN BY JJS | PLANS CK'D. SEW

STEEL DIAPHRAGM

SHEET 10

365

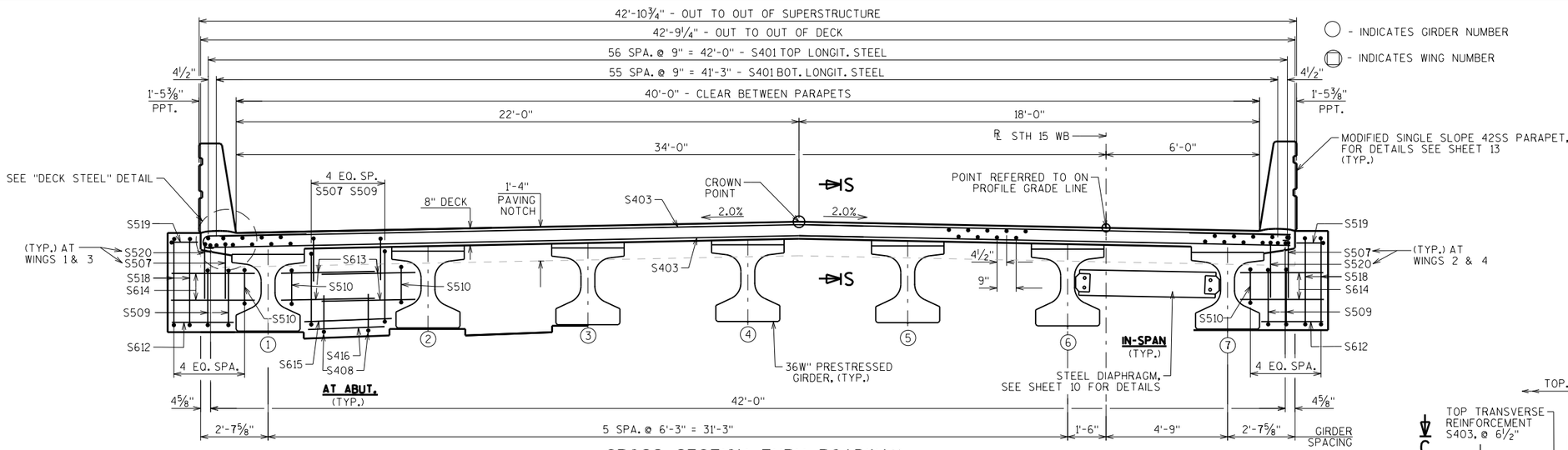
SCALE = 1.00

8

8

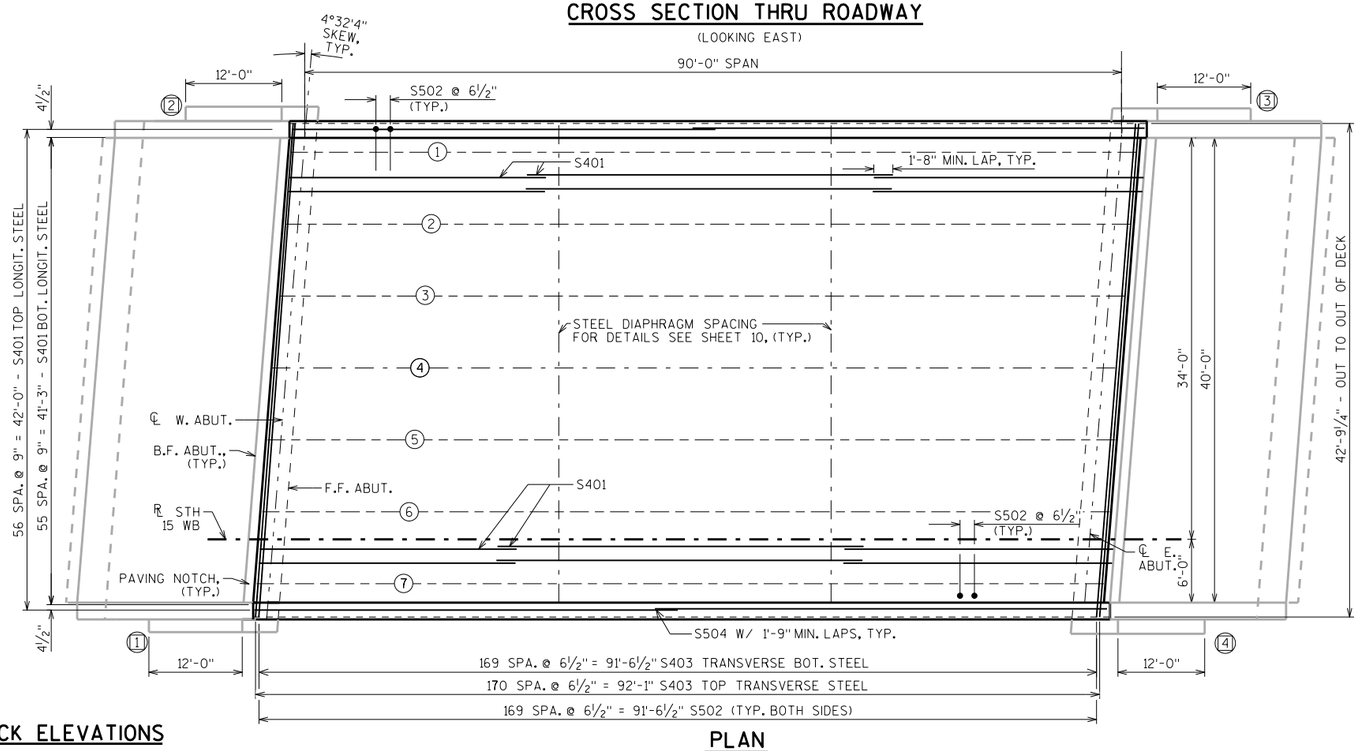
STATE PROJECT NUMBER

1146-75-71

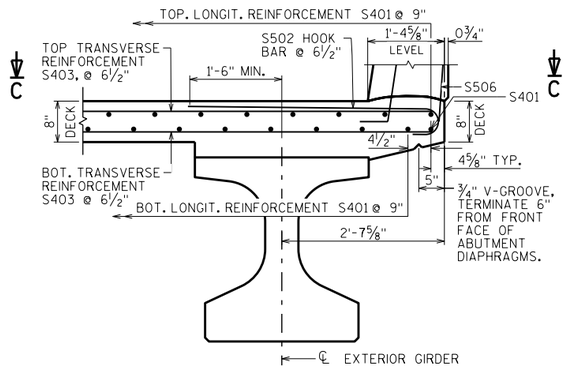


CROSS SECTION THRU ROADWAY

(LOOKING EAST)

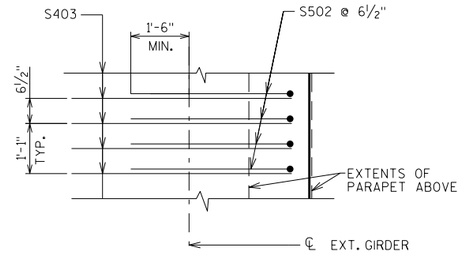


PLAN



DECK STEEL DETAIL

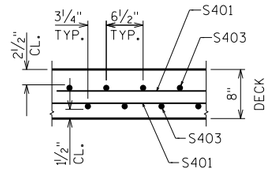
(TYP. AT BOTH EDGES)



PLAN C-C

TOP OF DECK ELEVATIONS

EOD= EDGE OF DECK	℄ BRG. W. ABUT.	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	℄ E. ABUT.
N. EOD	847.16	847.22	847.28	847.34	847.40	847.45	847.51	847.56	847.61	847.65	847.70
G1	847.19	847.24	847.31	847.37	847.42	847.48	847.53	847.58	847.63	847.68	847.72
G2	847.30	847.37	847.43	847.49	847.55	847.60	847.65	847.70	847.75	847.80	847.84
G3	847.43	847.49	845.55	847.61	847.67	847.72	847.78	847.83	847.88	847.92	847.97
G4	847.55	847.61	847.67	847.73	847.79	847.85	847.90	847.95	848.00	848.04	848.09
G5	847.50	847.56	847.63	847.68	847.74	847.80	847.85	847.90	847.95	848.00	848.04
G6	847.37	847.43	847.50	847.56	847.61	847.67	847.72	847.77	847.82	847.87	847.91
G7	847.24	847.31	847.37	847.43	847.49	847.54	847.59	847.65	847.70	847.74	847.79
S. EOD	847.22	847.28	847.34	847.40	847.46	847.52	847.57	847.62	847.67	847.72	847.76



SECTION S-S

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-294

DRAWN BY JJS | PLANS CK'D. SEW

SUPERSTRUCTURE

SHEET 11

366

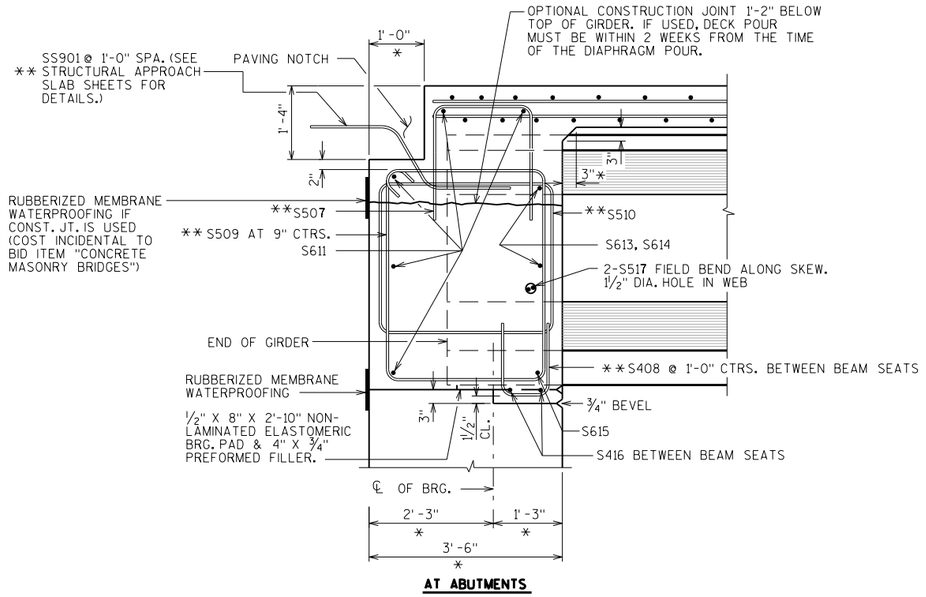
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8

8

STATE PROJECT NUMBER

1146-75-71

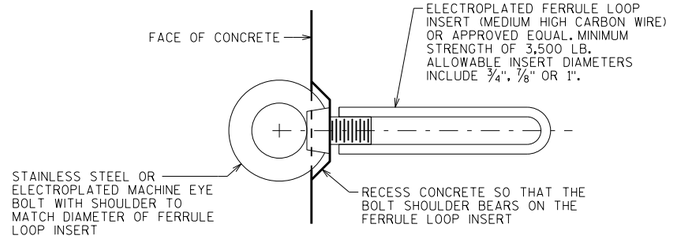


AT ABUTMENTS

PART LONGIT. SECTION

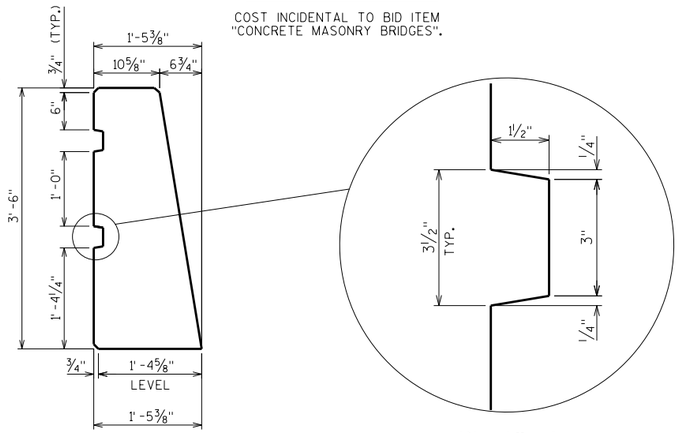
* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

** BARS PLACED PARALLEL TO GIRDERS SPACING PERPENDICULAR TO ℄ GIRDERS



EYE BOLT DETAIL

COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".



MODIFIED 42SS PARAPET

DETAIL A

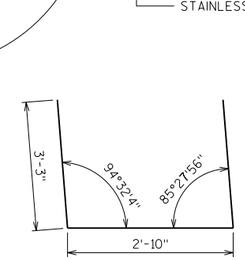
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

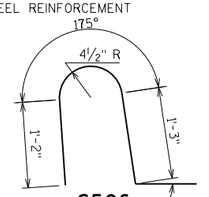
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S401	X	345	31'-10"			LONGITUNDINAL TOP & BOTTOM
S502	X	340	4'-7"	X		TRANSVERSE EDGE OF DECK TOP
S403	X	341	42'-5"			TRANSVERSE TOP AND BOTTOM
S504	X	32	47'-0"			PARAPET 42SS - HORIZ.
S505	X	278	6'-8"	X		PARAPET 42SS - VERT.
S506	X	278	4'-5"	X		PARAPET 42SS - VERT.
S507	X	64	6'-3"	X		ABUT. DIAPHRAGM - VERT.
S408	X	48	3'-5"	X		ABUT. DIAPHRAGM - VERT.
S509	X	68	11'-8"	X		ABUT. DIAPHRAGM - STIRRUP
S510	X	28	9'-10"	X		ABUT. DIAPHRAGM - STIRRUP
S611	X	10	42'-5"			ABUT. DIAPHRAGM - HORIZ. -B.F
S612	X	4	2'-5"			ABUT. DIAPHRAGM - HORIZ. -F.F ENDS
S613	X	48	3'-8"			ABUT. DIAPHRAGM - HORIZ. -F.F
S614	X	8	9'-4"	X		ABUT. DIAPHRAGM - HORIZ. -F.F
S615	X	12	3'-5"			ABUT. DIAPHRAGM - HORIZ.
S416	X	24	2'-5"			ABUT. DIAPHRAGM - HORIZ.
S517	X	28	6'-0"			ABUT. DIAPHRAGM - HORIZ.
S518	X	8	14'-0"	X		ABUT. DIAPHRAGM ENDS
S519	X	4	4'-6"	X		ABUT. DIAPHRAGM ENDS
S520	X	4	7'-1"	X		ABUT. DIAPHRAGM ENDS

SS901		86	5'-0"	X		CONC. ABUT. DIAPH. TO STRUCT. SLAB TIE

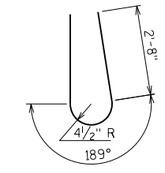
STAINLESS STEEL REINFORCEMENT



S614



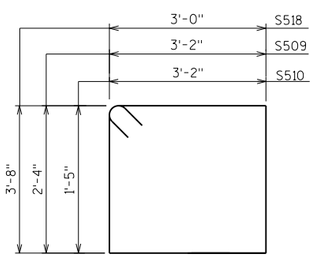
S506



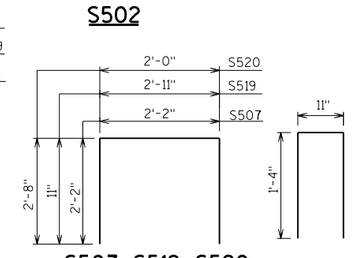
S505



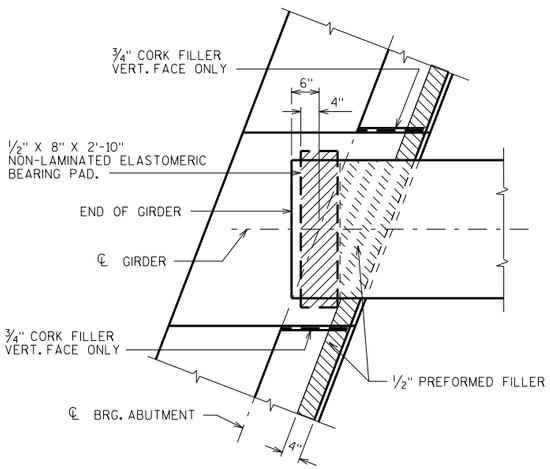
S502



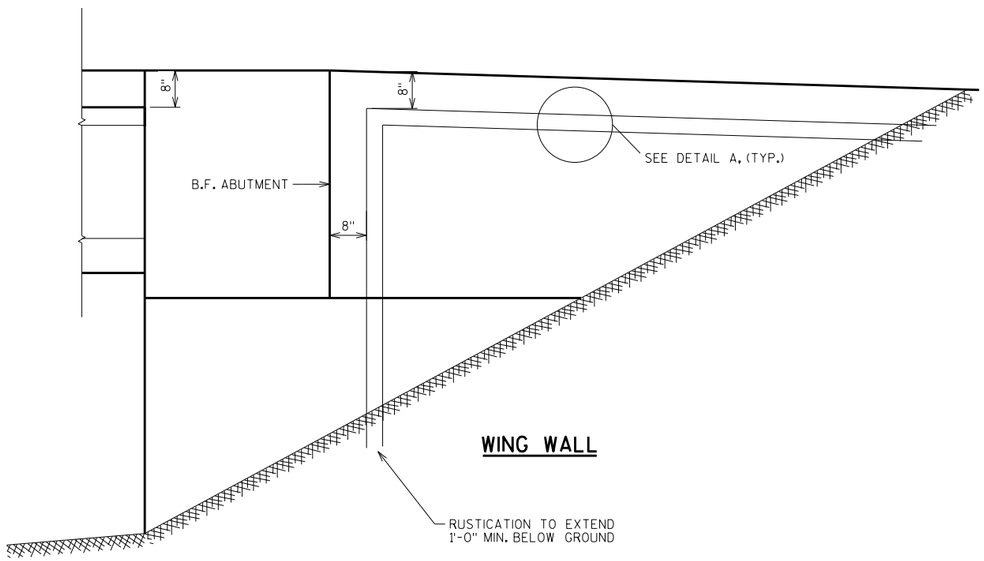
S509, S510, S518



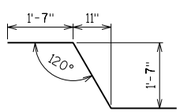
S507, S519, S520 S408



BEARING PAD DETAIL



WING WALL



SS901

(STAINLESS STEEL)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-294

DRAWN BY JJS | PLANS CK'D. SEW

SUPERSTRUCTURE DETAILS

SHEET 12

367

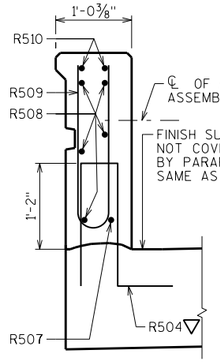
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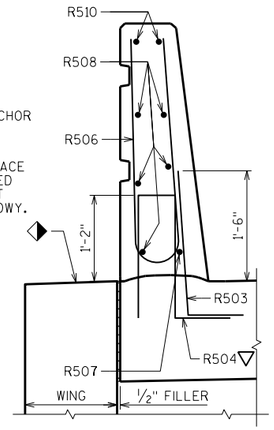
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STATE PROJECT NUMBER

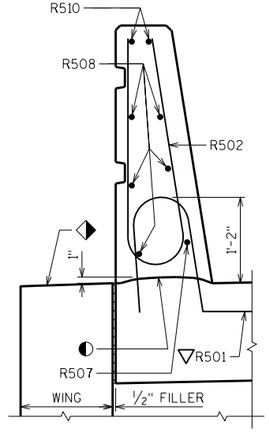
1146-75-71



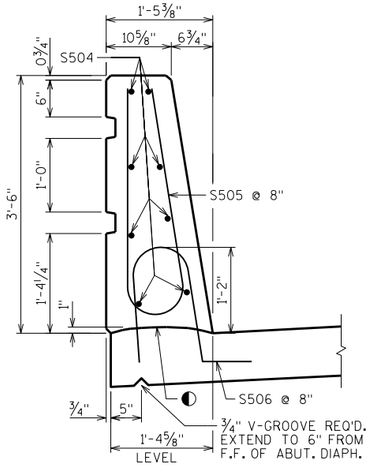
SECTION A-A



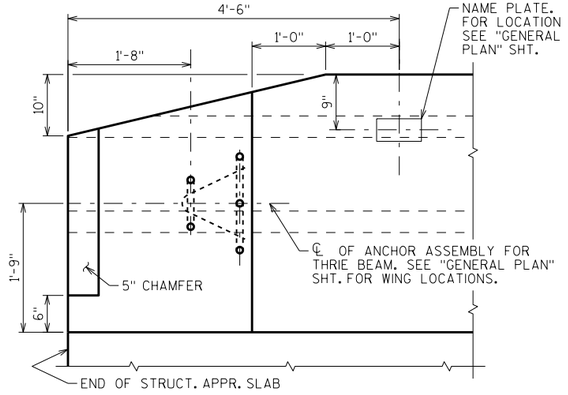
SECTION B-B



SECTION C-C



SECTION THRU PARAPET ON DECK



PARAPET END TREATMENT DETAIL

LOOKING AT INSIDE FACE OF PARAPET

BILL OF BARS

FOR STRUCTURAL APPROACH SLAB PARAPETS

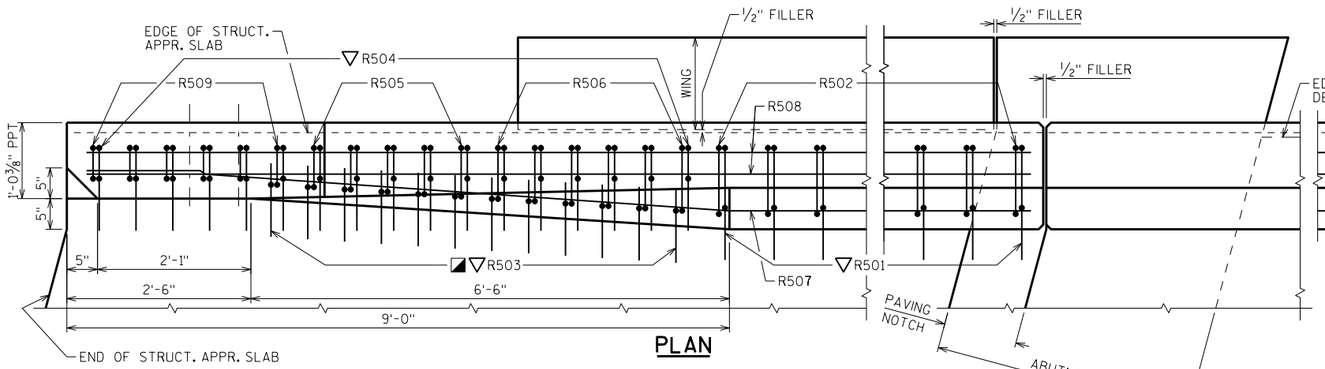
BAR MARK	COAT	W.APP. ABUT.	E.APP. ABUT.	LENGTH	BENT	BAR SERIES	LOCATION
R501	X	34	34	4'-5"	X		PARAPET VERT.
R502	X	34	34	6'-8"	X		PARAPET VERT.
R503	X	24	24	2'-9"	X		PARAPET VERT.
R504	X	34	34	4'-4"	X		PARAPET VERT.
R505	X	10	10	6'-5"	X		PARAPET VERT.
R506	X	12	12	6'-6"	X		PARAPET VERT.
R507	X	2	2	19'-6"	X		PARAPET HORIZ.
R508	X	10	10	19'-6"			PARAPET HORIZ.
R509	X	12	12	5'-5"	X	⚠	PARAPET VERT.
R510	X	4	4	19'-6"	X		PARAPET HORIZ.

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

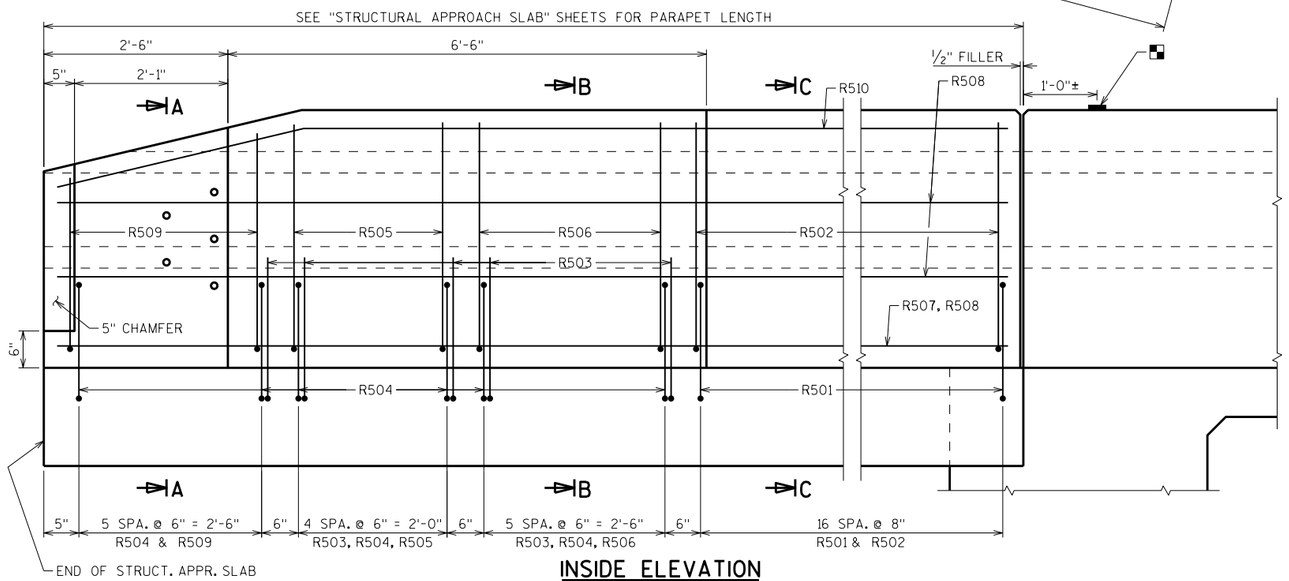
BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
R509	4 SERIES OF 6	4'-9" TO 6'-1"

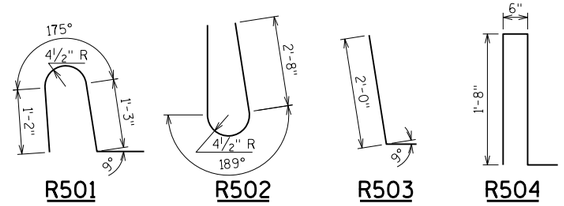
BUNDLE AND TAG EACH SERIES SEPARATELY.

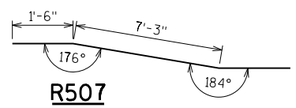


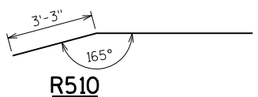
PLAN

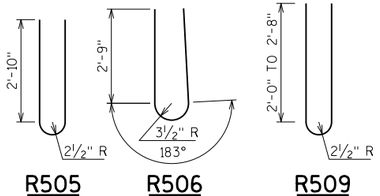


INSIDE ELEVATION

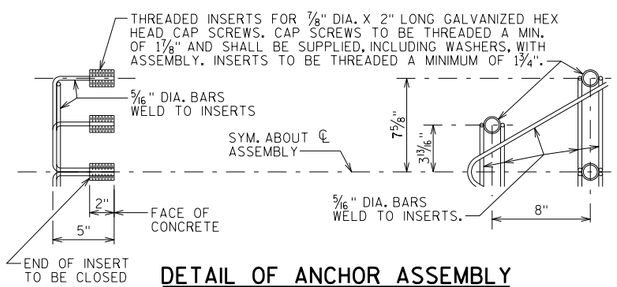








BENCH MARK CAP (WHEN SUPPLIED). AVOID PLACING A BENCH MARK CAP BELOW A RAIL OR FENCE SYSTEM THAT IS ATTACHED TO THE TOP OF THE PARAPET.



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

- ◐ CONST. JOINT - STRIKE OFF AS SHOWN
- ◆ SLOPE FOR DRAINAGE
- ◪ USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.
- ▽ R501, R503, AND R504 BARS TO BE TIED TO STRUCTURAL APPROACH SLAB STEEL BEFORE STRUCTURAL APPROACH SLAB IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-294

DRAWN BY	PLANS CK'D.
JJS	SEW

MODIFIED SINGLE SLOPE PARAPET 42SS

SHEET 13

368

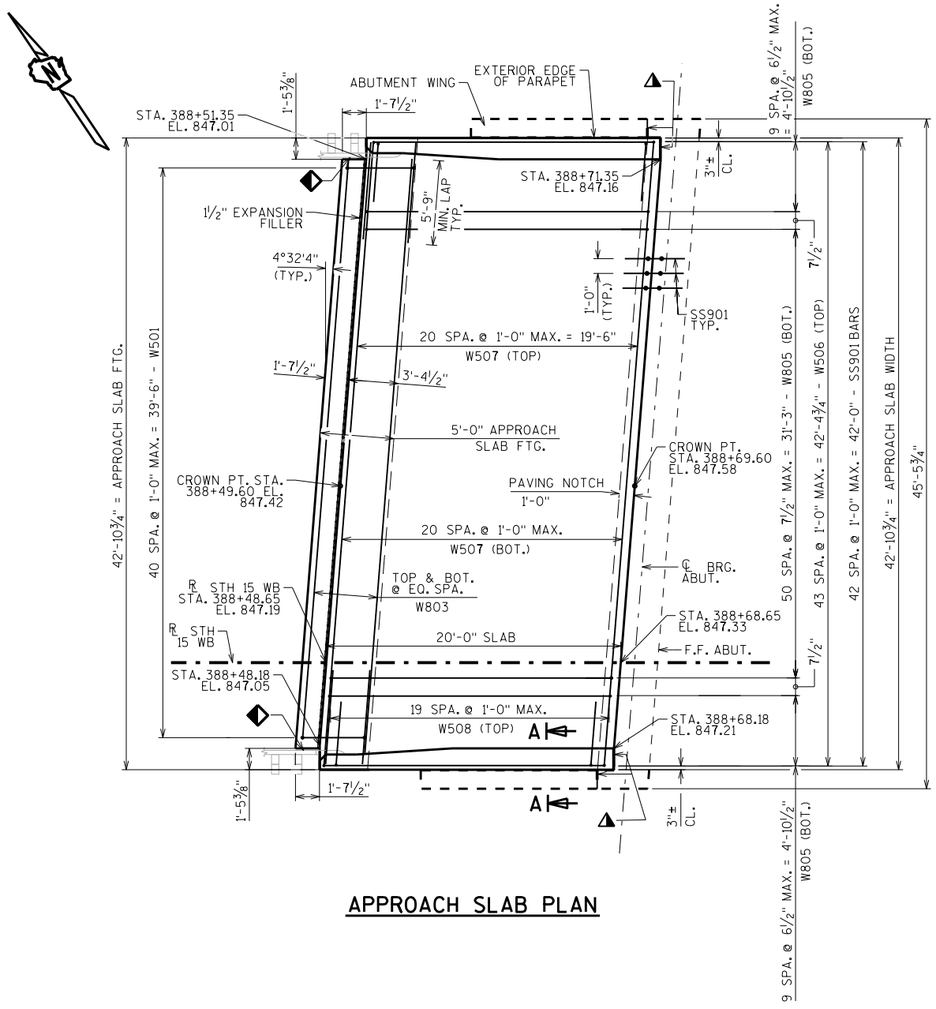
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8

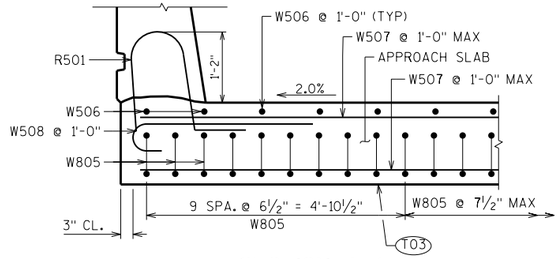
SCALE = 1.00

STATE PROJECT NUMBER

1146-75-71



APPROACH SLAB PLAN



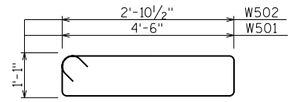
SECTION A-A

(NORTH END SIMILAR)

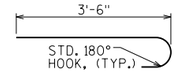
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

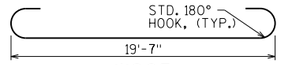
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
W501	X	41	11'-10"	X	FOOTING - STIRRUP
W502	X	4	8'-7"	X	FOOTING - STIRRUP ENDS
W803	X	12	39'-9"		FOOTING - TRANS. - TOP & BTM.
W804	X	16	7'-2"		FOOTING END - TRANS.- TOP & BTM.
W805	X	71	21'-5"	X	SLAB - LONGIT. - BTM.
W506	X	44	19'-6"		SLAB - LONGIT. - TOP
W507	X	42	42'-6"		SLAB - TRANS. - TOP & BOT.
W508	X	40	4'-1"	X	SLAB-TRANS.-TOP EDGE- BTWN. W507



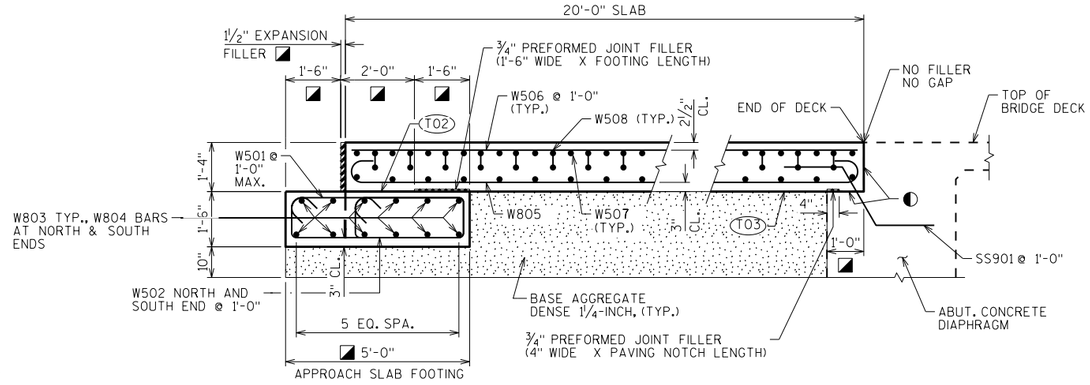
W501, W502



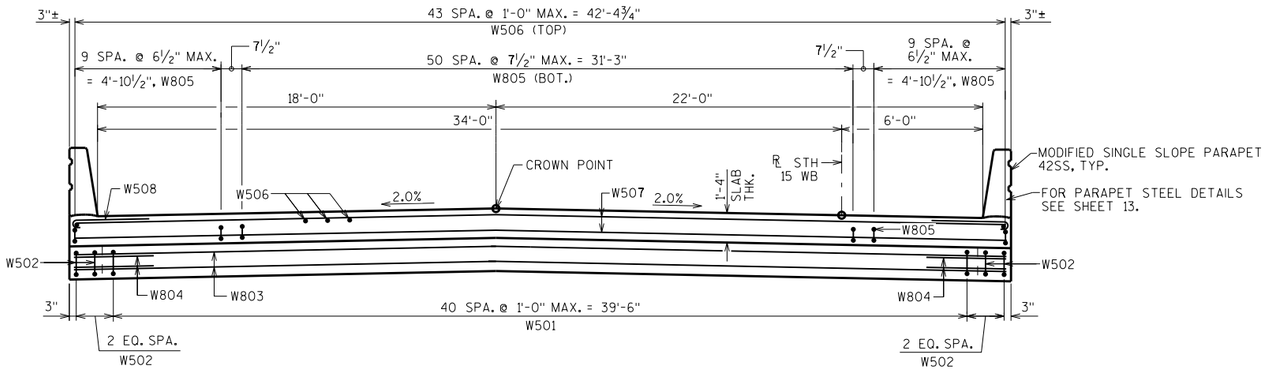
W508



W805



SECTION THRU APPROACH SLAB



CROSS SECTION THRU APPROACH SLAB

(LOOKING EAST)

- ◐ APPLY PROTECTIVE SURFACE TREATMENT TO PAVING NOTCH SURFACES PRIOR TO POURING STRUCTURAL APPROACH SLAB.
- ◪ MEASURED NORMAL TO ABUTMENT
- (T02) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE LENGTH OF THE FOOTING.
- (T03) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE LENGTH OF THE SUBGRADE.
- ◒ CONST. JOINT - STRIKE OFF AS SHOWN.
- ◆ THRIE BEAM GUARD ATTACHMENT LOCATION

⚠ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

DESIGN DATA

ALLOWABLE SOIL BEARING PRESSURE	2,000 P.S.F
CONCRETE STRENGTH f'c	4,000 P.S.I.
BAR STEEL REINFORCMENT, GRADE 60	fy = 60,000 P.S.I.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-294

DRAWN BY JJS | PLANS CK'D. SEW

WEST STRUCTURAL APPROACH SLAB

SHEET 14

369

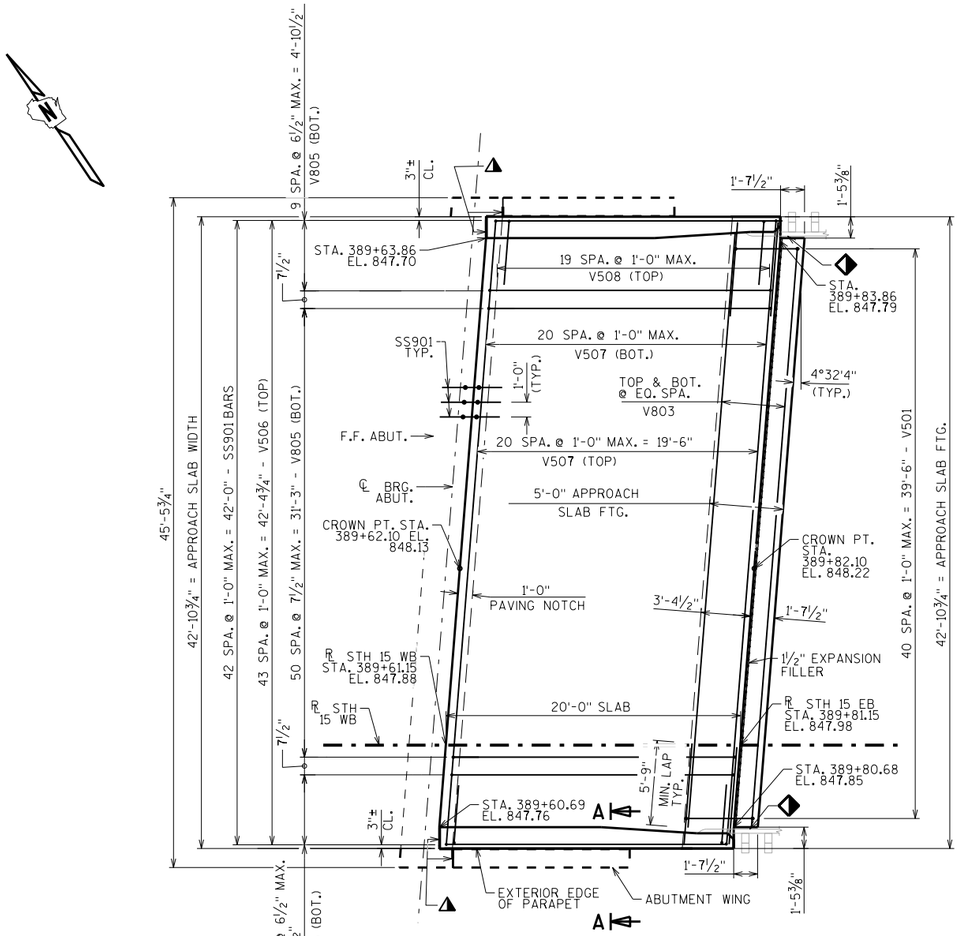
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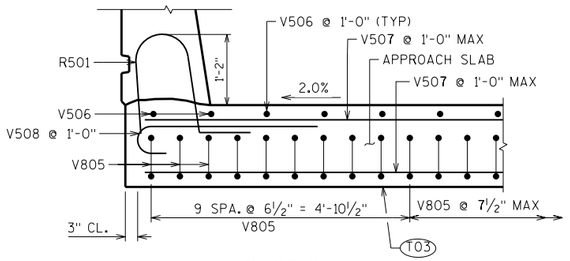
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STATE PROJECT NUMBER

1146-75-71



APPROACH SLAB PLAN



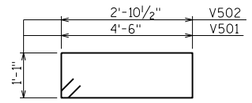
SECTION A-A

(NORTH END SIMILAR)

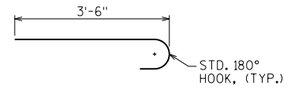
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
V501	X	41	11'-10"	X	FOOTING - STIRRUP
V502	X	4	8'-7"	X	FOOTING - STIRRUP ENDS
V803	X	12	39'-9"		FOOTING - TRANS. - TOP & BTM.
V804	X	16	7'-2"		FOOTING END - TRANS.
V805	X	71	21'-5"	X	SLAB - LONGIT. - BTM.
V506	X	44	19'-6"		SLAB - LONGIT. - TOP
V507	X	42	42'-6"		SLAB - TRANS. - TOP & BOT.
V508	X	40	4'-1"	X	SLAB END - BTWN. V507 - TRANS.



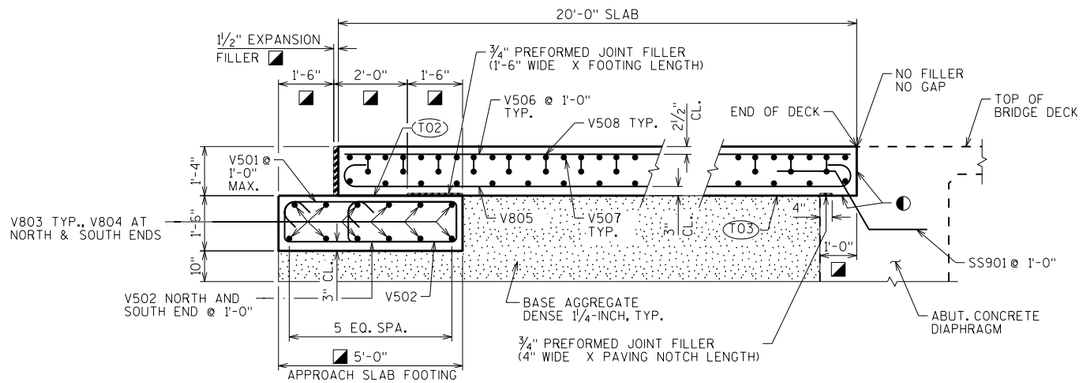
V501, V502



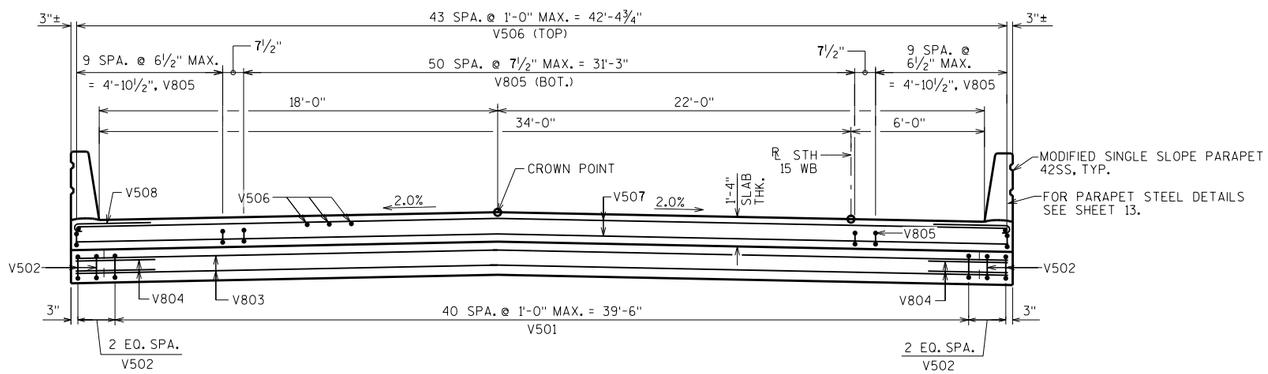
V508



V805



SECTION THRU APPROACH SLAB



CROSS SECTION THRU APPROACH SLAB

(LOOKING EAST)

◐ APPLY PROTECTIVE SURFACE TREATMENT TO PAVING NOTCH SURFACES PRIOR TO POURING STRUCTURAL APPROACH SLAB.

◪ MEASURED NORMAL TO ABUTMENT

(T02) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE LENGTH OF THE FOOTING.

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◆ THRIE BEAM GUARD ATTACHMENT LOCATION

⚠ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

DESIGN DATA

ALLOWABLE SOIL BEARING PRESSURE	2,000 P.S.F.
CONCRETE STRENGTH f'c	4,000 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60 f'y = 60,000 P.S.I.	

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-294

DRAWN BY JJS | PLANS CK'D. SEW

EAST STRUCTURAL APPROACH SLAB

SHEET 15

370

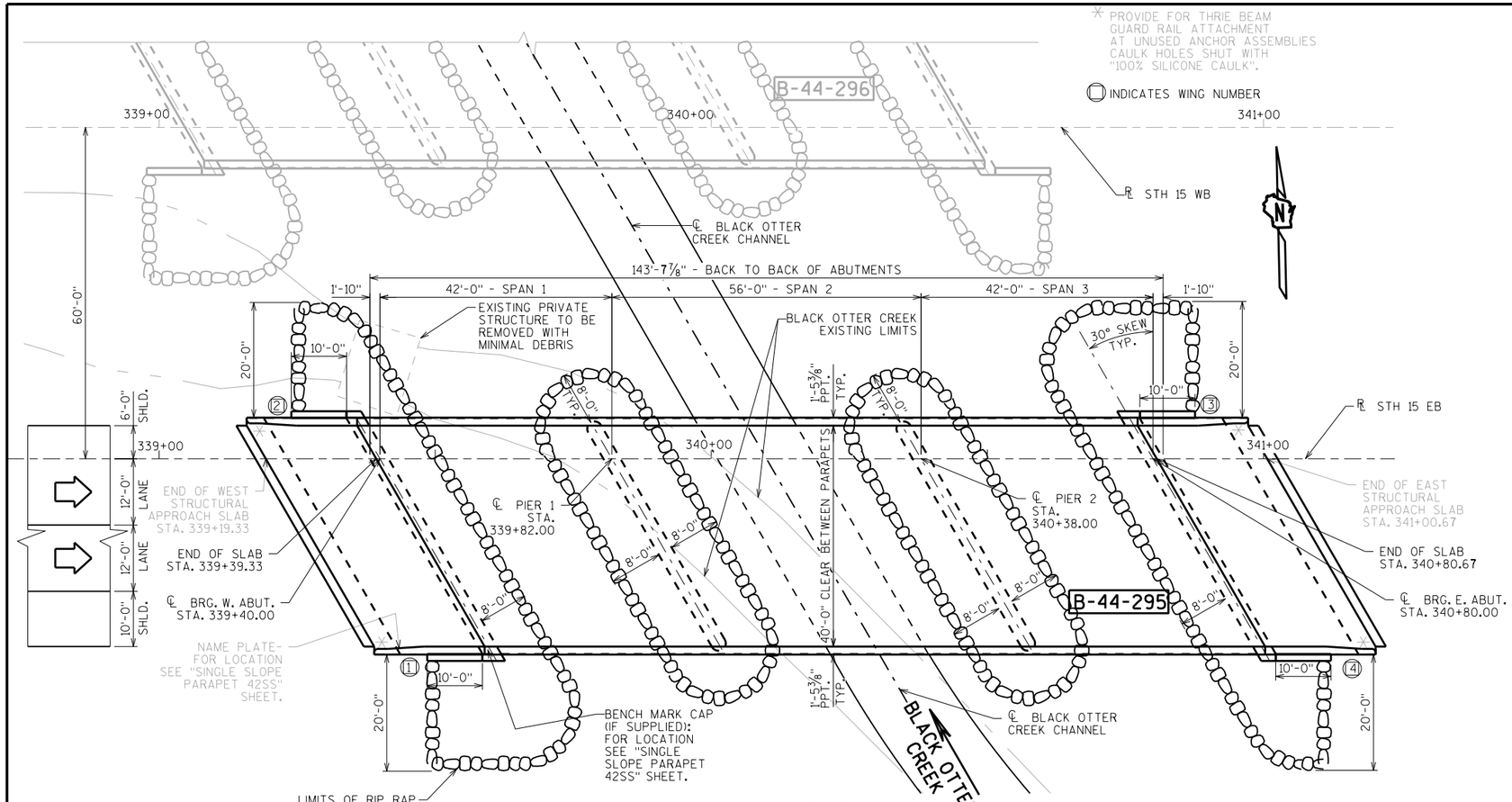
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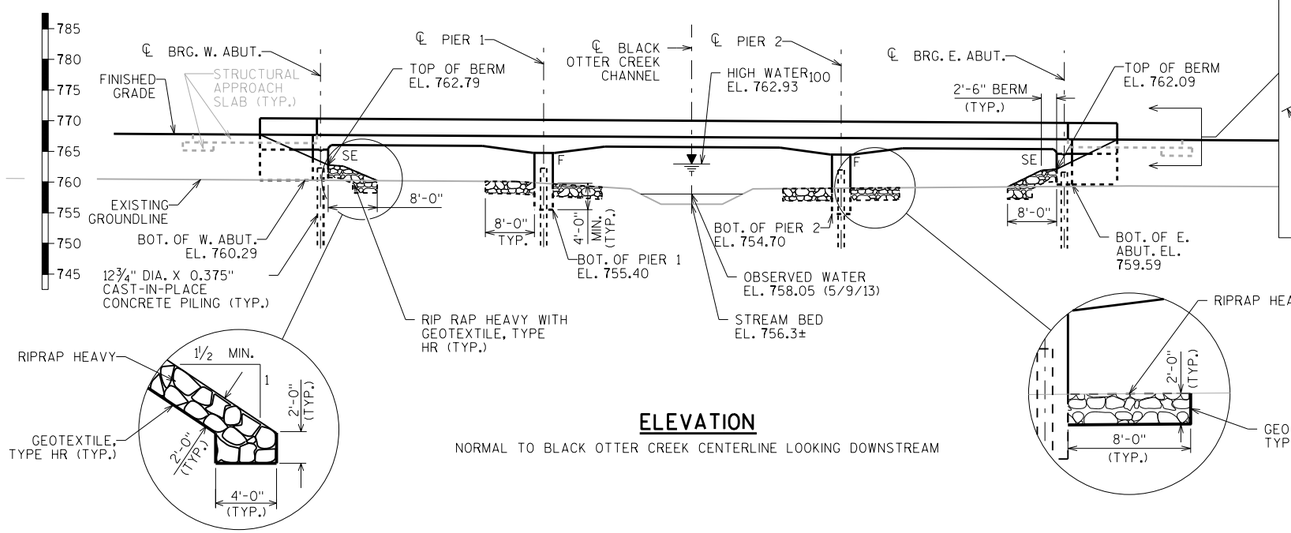
STATE PROJECT NUMBER

1146-75-71



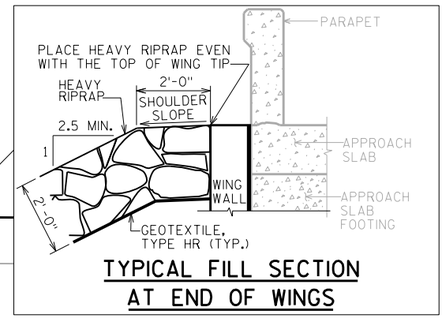
PLAN

3 SPAN - HAUNCHED CONCRETE SLAB

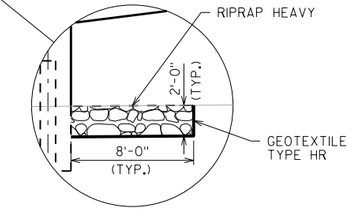


ELEVATION

NORMAL TO BLACK OTTER CREEK CENTERLINE LOOKING DOWNSTREAM



TYPICAL FILL SECTION AT END OF WINGS



DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.11
OPERATING RATING FACTOR: RF = 1.45
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
SUPERSTRUCTURE — f'c = 4,000 P.S.I.
ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
GRADE 60 — fy = 60,000 P.S.I.
STAINLESS, GRADE 60 — fy = 60,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON 12¾" DIA. X 0.375" CAST-IN-PLACE CONCRETE PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 170 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 145 FEET LONG.

PIERS TO BE SUPPORTED ON 12¾" DIA. X 0.375" CAST-IN-PLACE CONCRETE PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 210 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 145 FEET LONG.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

S.T.H. 15
A.D.T. = 15,000 (2040)
R.D.S. = 60 M.P.H.

HYDRAULIC DATA

100 YEAR FREQUENCY
Q_{100} = 1390 C.F.S.
VEL. = 5.9 F.P.S.
HW_{100} = EL. 762.93
WATERWAY AREA = 235 SQ. FT.
DRAINAGE AREA = 16.5 SQ. MI.
SCOUR CRITICAL CODE = 5
ROADWAY OVERTOPPING = N/A

2 YEAR FREQUENCY
Q_2 = 340 C.F.S.
VEL. = 2.6 F.P.S.
HW_2 = EL. 761.04

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. SUBSURFACE EXPLORATION
4. WEST ABUTMENT
5. WEST ABUTMENT DETAILS
6. EAST ABUTMENT
7. EAST ABUTMENT DETAILS
8. PIER 1
9. PIER 2
10. SUPERSTRUCTURE CROSS SECTIONS 1
11. SUPERSTRUCTURE CROSS SECTIONS 2
12. SUPERSTRUCTURE DETAILS
13. SUPERSTRUCTURE PLAN & DATA
14. STRUCTURAL APPROACH SLAB
15. STRUCTURAL APPROACH SLAB DETAILS
16. SINGLE SLOPE PARAPET 42SS
17. SUPERSTRUCTURE BAR DETAILS

STRUCTURE DESIGN CONTACTS:
MAX KULICK (608) 261-6108
DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED DMB 01/06/21
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-44-295

STH 15 EB OVER BLACK OTTER CREEK

COUNTY: OUTAGAMIE | TOWN: HORTONIA

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
MJK	JRS	JPH/MJH	MJK

GENERAL PLAN

SHEET 1 OF 17

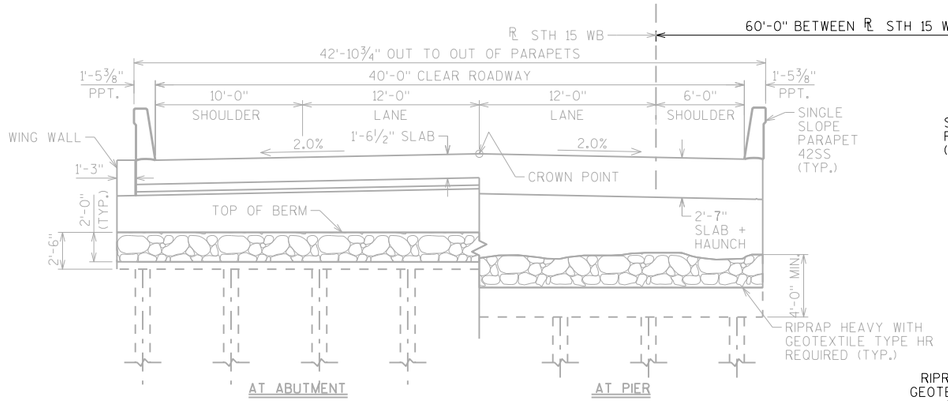
371

I.D. 1146-75-00BK DATE: JAN. 2021

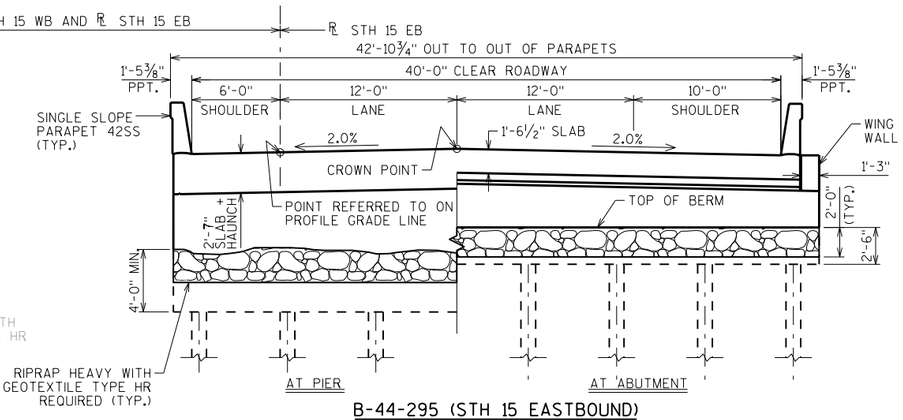
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STATE PROJECT NUMBER

1146-75-71

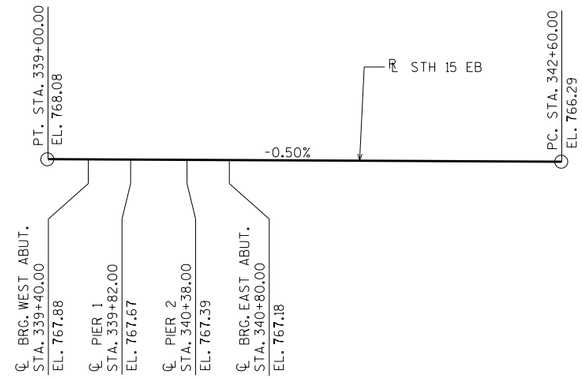


B-44-296 (STH 15 WESTBOUND)



B-44-295 (STH 15 EASTBOUND)

CROSS SECTION THRU ROADWAY LOOKING EAST (UPSTATION)



PROFILE GRADE LINE - STH 15 EB

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE, UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF HAUNCHED SLAB SURFACES AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS.

THE EXISTING STREAM BED SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BECOVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE "HR" TO THEEXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

AT ABUTMENTS AND PIER(S), CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

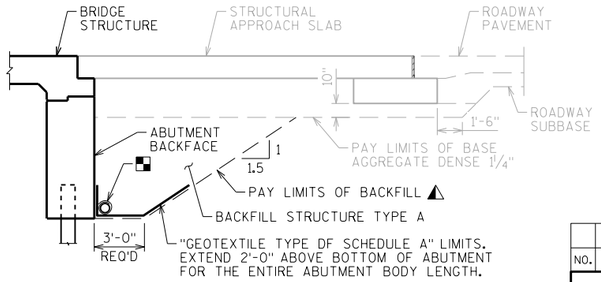
STRUCTURAL APPROACH SLABS TO BE CONSTRUCTED UNDER CONTRACT NUMBER 1146-75-77

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	WEST ABUT.	PIER 1	PIER 2	EAST ABUT.	TOTALS
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 339+40	LS	———	———	———	———	———	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-44-295	LS	———	———	———	———	———	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	———	89	———	———	89	178
502.0100	CONCRETE MASONRY BRIDGES	CY	429	43	42	44	43	601
502.3200	PROTECTIVE SURFACE TREATMENT	SY	655	———	———	———	———	655
502.3210	PIGMENTED SURFACE SEALER	SY	140	———	———	———	———	140
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	———	3,020	1,950	2,075	3,020	10,065
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	94,325	1,250	———	———	1,250	96,825
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	390	———	———	———	———	390
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	———	13	———	———	13	26
550.2126	PILING CIP CONCRETE 12 3/4 X 0.375-INCH	LF	———	1,160	1,450	1,450	1,160	5,220
606.0300	RIPRAP HEAVY	CY	———	113	73	73	113	372
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	———	105	———	———	105	210
645.0111	GEOTEXTILE TYPE DF SCHEDULE A"	SY	———	50	———	———	50	100
645.0120	GEOTEXTILE TYPE HR	SY		192	143	143	192	670
	NON-BID ITEMS							
	FILLER	SIZE	———	———	———	———	———	½", ¾", 1½"

ABUTMENT BACKFILL DIAGRAM FOR WINGS PARALLEL TO ROADWAY

L = OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)
V_{CY} = V_{CF} (EF)/27
V_{TON} = V_{CY} (2.0)



TYPICAL SECTION THRU ABUTMENT

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

▪ PIPE UNDERDRAIN WRAPPED (6 INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-295

DRAWN BY JPH/MJH | PLANS CK'D. MJK

CROSS SECTION & QUANTITIES

SHEET 2

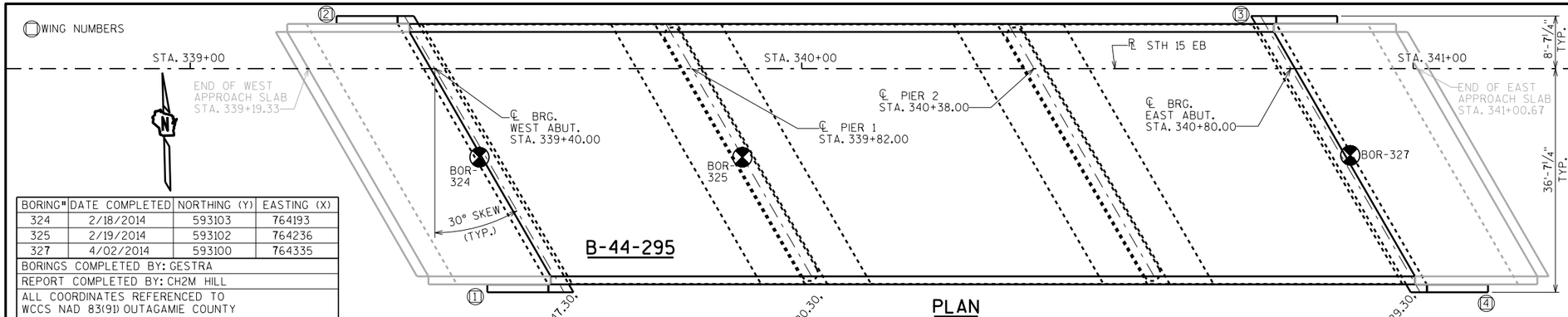
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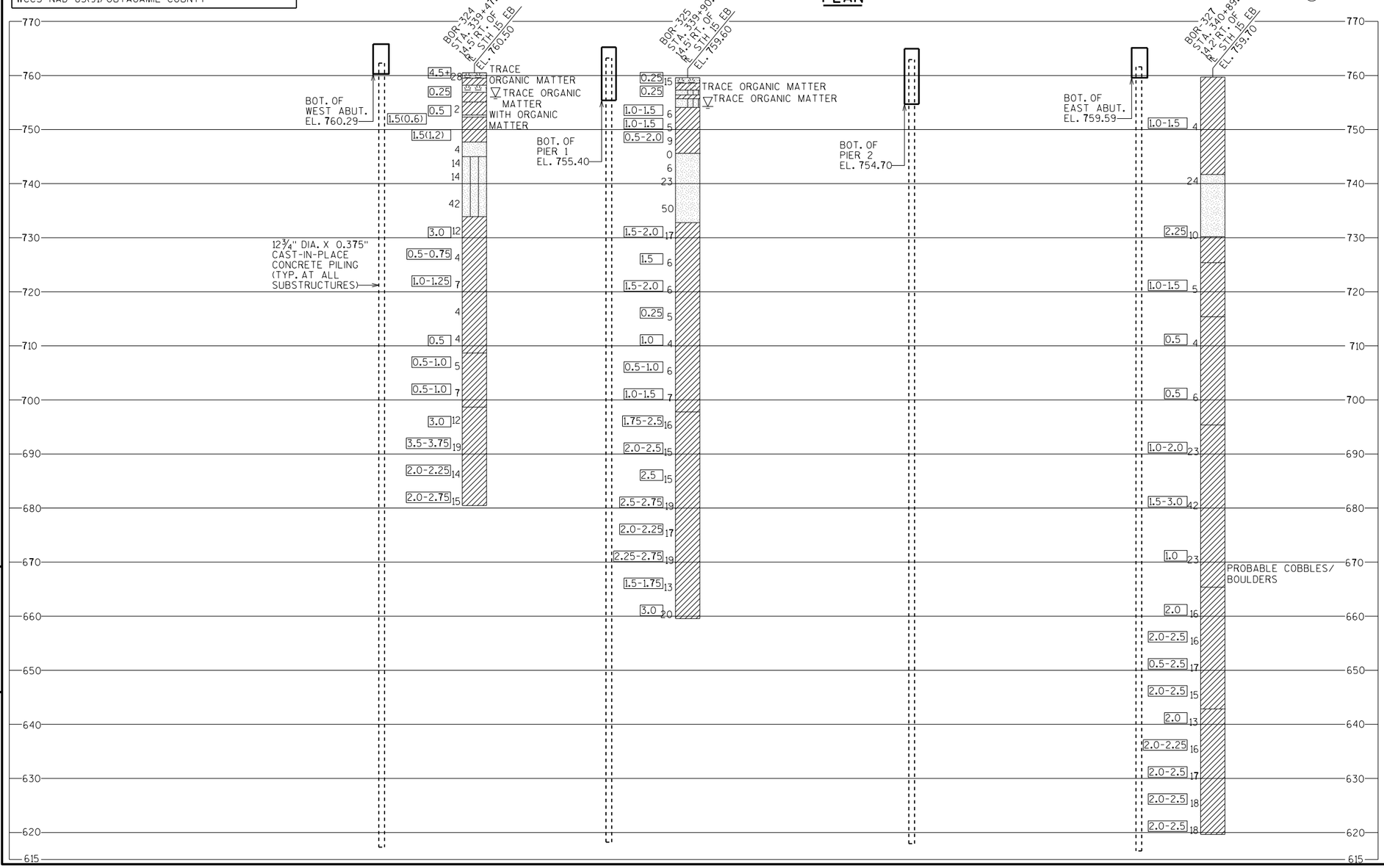
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SCALE = 5.00

WING NUMBERS



BORING#	DATE COMPLETED	NORTHING (Y)	EASTING (X)
324	2/18/2014	593103	764193
325	2/19/2014	593102	764236
327	4/02/2014	593100	764335
BORINGS COMPLETED BY: GESTRA			
REPORT COMPLETED BY: CH2M HILL			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY			



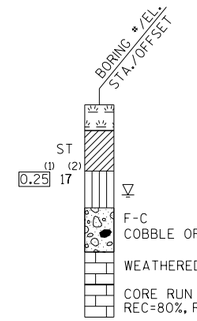
STATE PROJECT NUMBER

1146-75-71

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▼ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-295

DRAWN BY JPH | PLANS CK'D. MJK

SUBSURFACE EXPLORATION

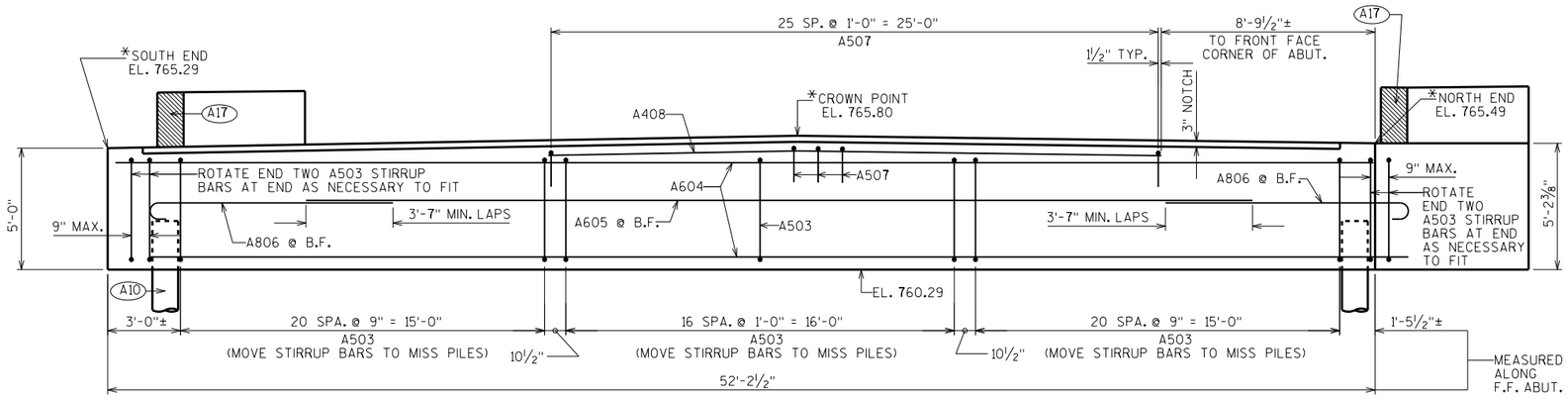
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373

SCALE = 10.00

STATE PROJECT NUMBER

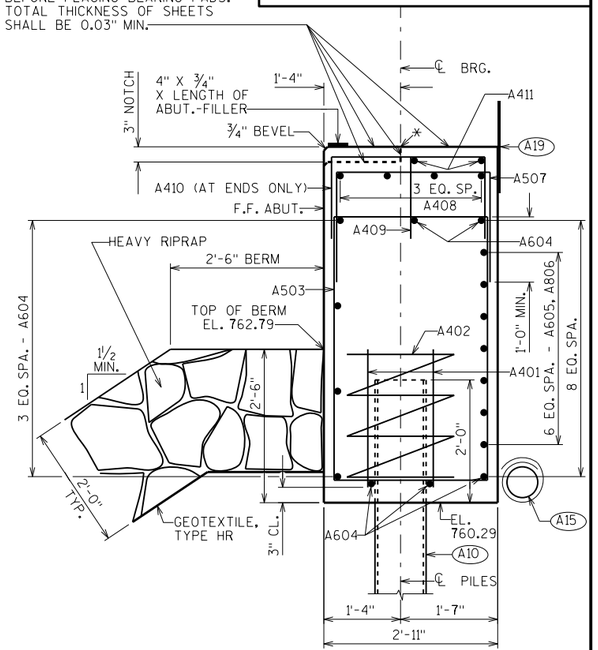
1146-75-71



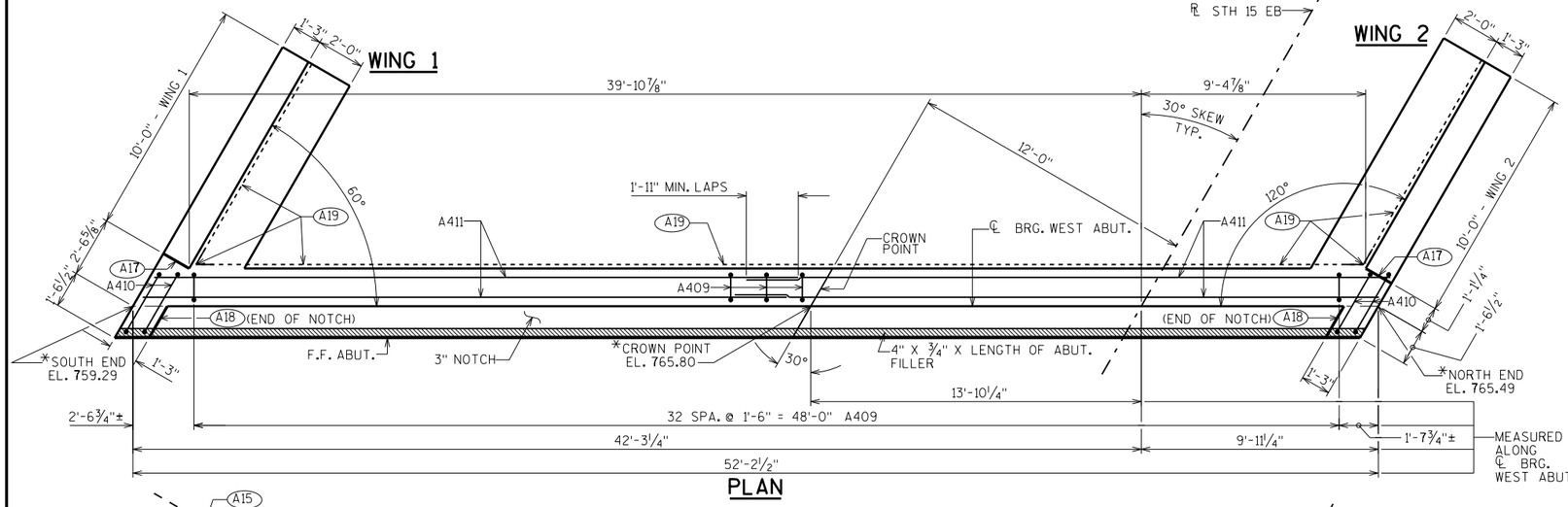
ELEVATION LOOKING WEST @ F.F. ABUT.

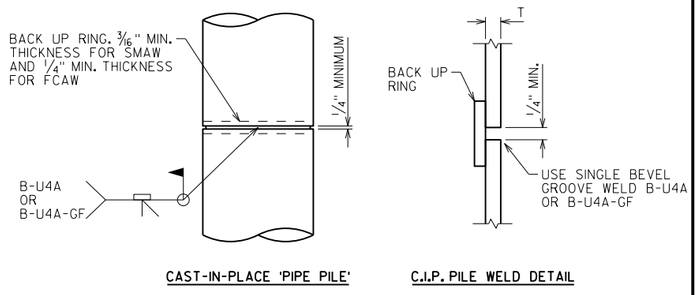
*TOP OF ABUT. ELEVATIONS ARE GIVEN HERE AT ℄ BRG. WEST ABUT.

STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING PADS. TOTAL THICKNESS OF SHEETS SHALL BE 0.03" MIN.



SECTION THRU BODY





CAST-IN-PLACE 'PIPE PILE'

C.I.P. PILE WELD DETAIL

PILE DETAILS

(A10) SUPPORT ABUTMENT ON 12¾" DIA. X 0.375" C.I.P. CONCRETE PILING, ESTIMATED 145'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 170 TONS PER PILE.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) ½" FILLER (INCLUDED IN WING LENGTH); SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING, GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A18) ¾" CORK FILLER UP VERT. NOTCH FACES THAT RUN PARALLEL WITH "℄ STH 15 EB".

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-295

DRAWN BY JPH | PLANS CK'D. MJK

WEST ABUTMENT

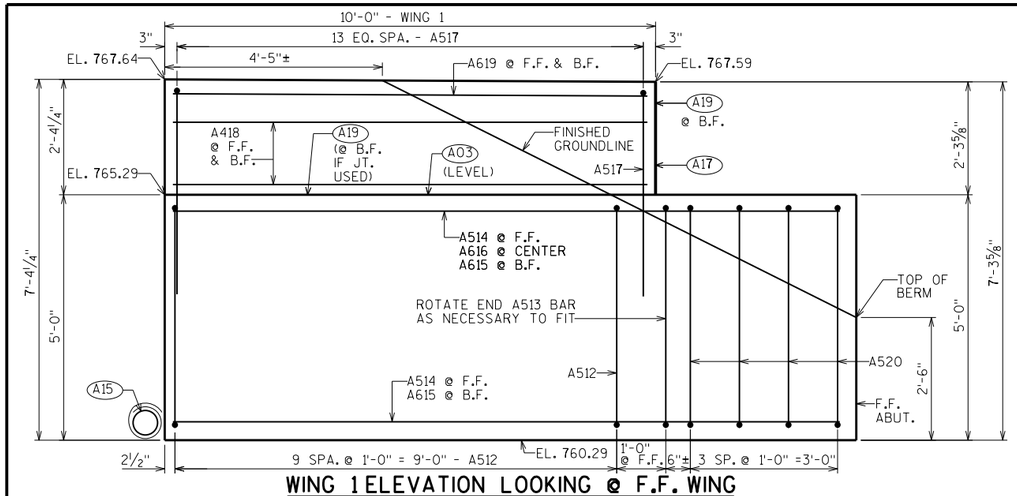
SHEET 4

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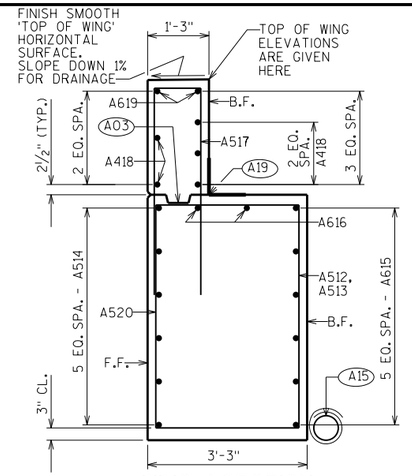
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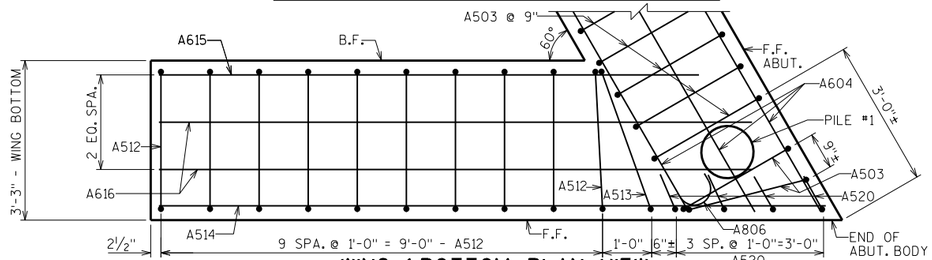
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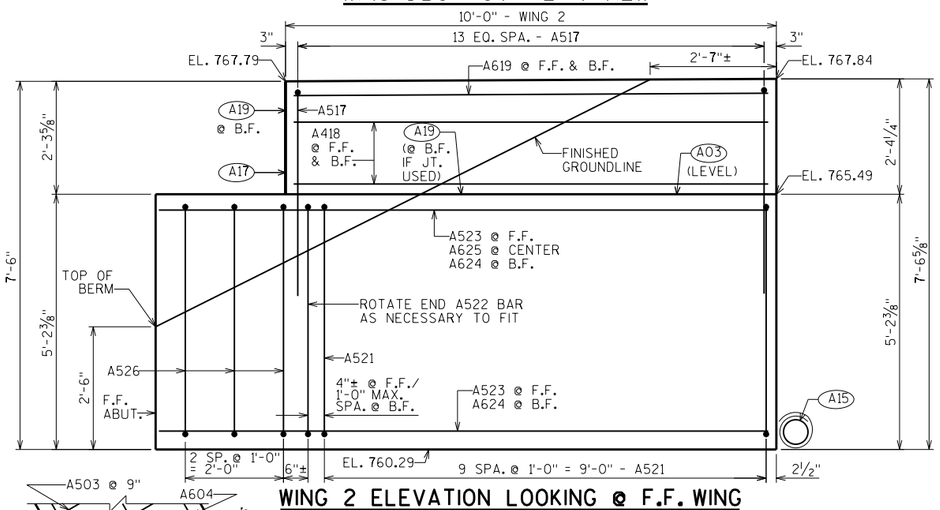
WING 1 ELEVATION LOOKING @ F.F. WING



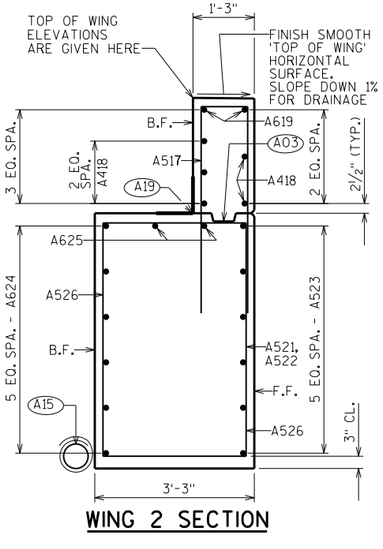
WING 1 SECTION



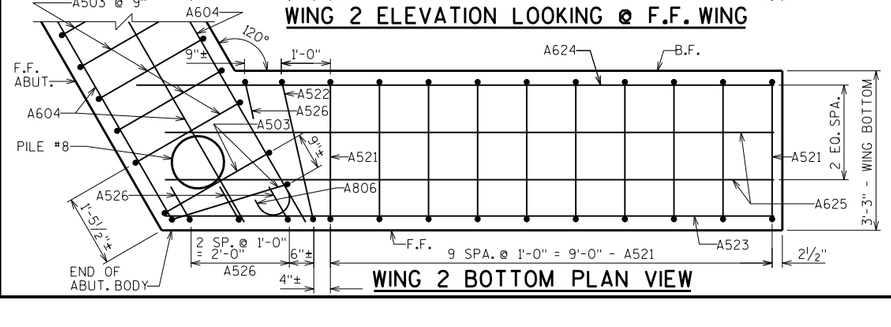
WING 1 BOTTOM PLAN VIEW



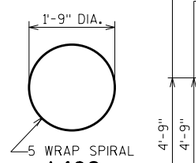
WING 2 ELEVATION LOOKING @ F.F. WING



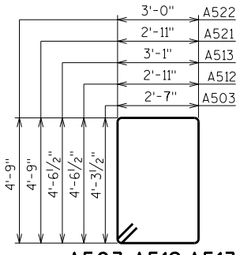
WING 2 SECTION



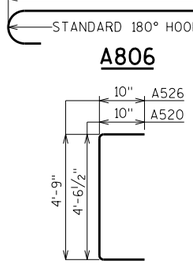
WING 2 BOTTOM PLAN VIEW



A402

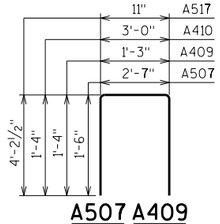


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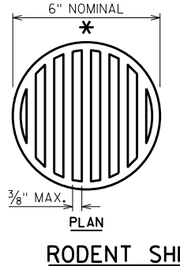


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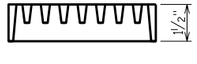
A520 A526



A507 A409
A410 A517



PLAN



SECTION

RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

STATE PROJECT NUMBER

1146-75-71

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
A401		16	2'-3"		BODY-BOT.-2 PER BODY PILE-VERT.
A402		8	28'-0"	X	BODY-BOT.-SPIRAL-1 PER BODY PILE-VERT.
A503		63	14'-5"	X	BODY-STIRRUPS-VERT.
A604		9	51'-9"		BODY-HORIZONTAL-END TO END
A605		7	39'-0"		BODY-HORIZONTAL-B.F.-AT CENTER
A806		14	10'-11"	X	BODY-HORIZONTAL-B.F.-AT BOTH ENDS
A507		26	5'-4"	X	BODY-TOP-VERT.-UNDER NOTCH
A408		4	25'-3"		BODY-TOP-HORIZ.-UNDER NOTCH
A409		33	3'-9"	X	BODY-TOP-VERT.-ALONG NOTCH
A410		4	5'-6"	X	BODY-TOP-VERT.-AT ENDS ONLY
A411		4	27'-0"		BODY-TOP-HORIZ.-END TO END
A512	X	10	15'-7"	X	WING 1-BOT.-STIRRUP-VERT.
A513	X	1	15'-11"	X	WING 1-BOT.-STIRRUP-VERT.
A514	X	6	13'-7"		WING 1-BOT.-HORIZONTAL-F.F.
A615	X	6	11'-0"		WING 1-BOT.-HORIZONTAL-B.F.
A616	X	2	12'-1"		WING 1-BOT.-HORIZONTAL-CENTER
A517	X	28	9'-1"	X	WINGS 1&2-TOP-VERTICAL
A418	X	10	9'-8"		WINGS 1&2-TOP-HORIZONTAL-B.F. & F.F.
A619	X	4	9'-8"		WINGS 1&2-TOP-HORIZONTAL-B.F. & F.F.
A520	X	4	6'-0"	X	WING 1/BODY END-BOT.-VERT.-F.F.
A521	X	10	16'-0"	X	WING 2-BOT.-STIRRUP-VERT.
A522	X	1	16'-2"	X	WING 2-BOT.-STIRRUP-VERT.
A523	X	6	12'-5"		WING 2-BOT.-HORIZONTAL-F.F.
A624	X	6	13'-0"		WING 2-BOT.-HORIZONTAL-B.F.
A625	X	2	12'-5"		WING 2-BOT.-HORIZONTAL-CENTER
A526	X	4	6'-2"	X	WING 2/BODY END-BOT.-VERT.-F.F. & B.F.

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2" × 6". (18" RMW @ B.F. & ¾" "V" GROOVE @ F.F. IF JOINT IS USED).

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING, GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-295

DRAWN BY JPH | PLANS CK'D. MJK

WEST ABUTMENT DETAILS

SHEET 5

375

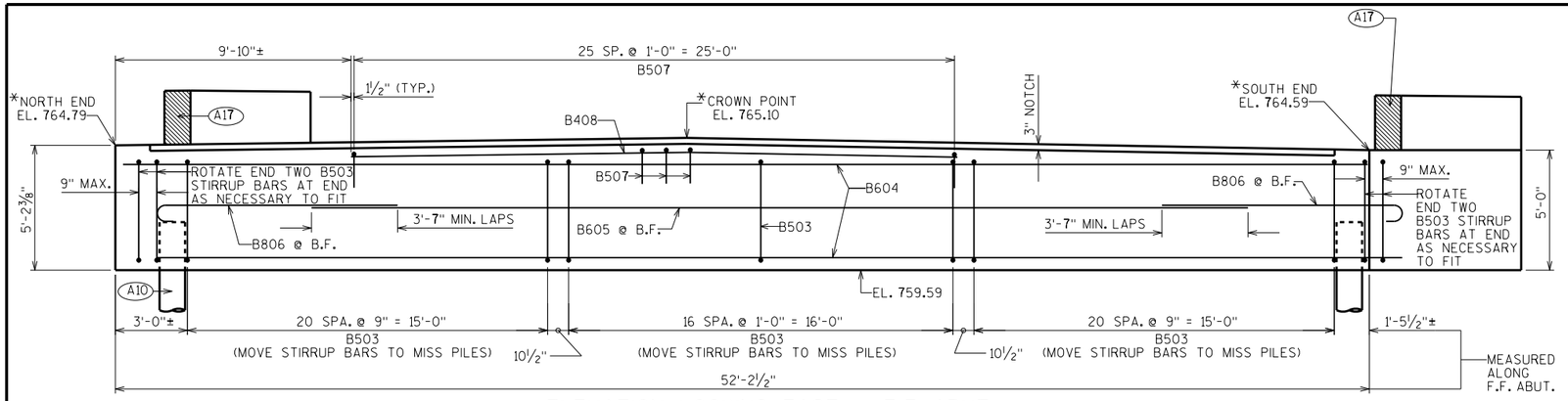
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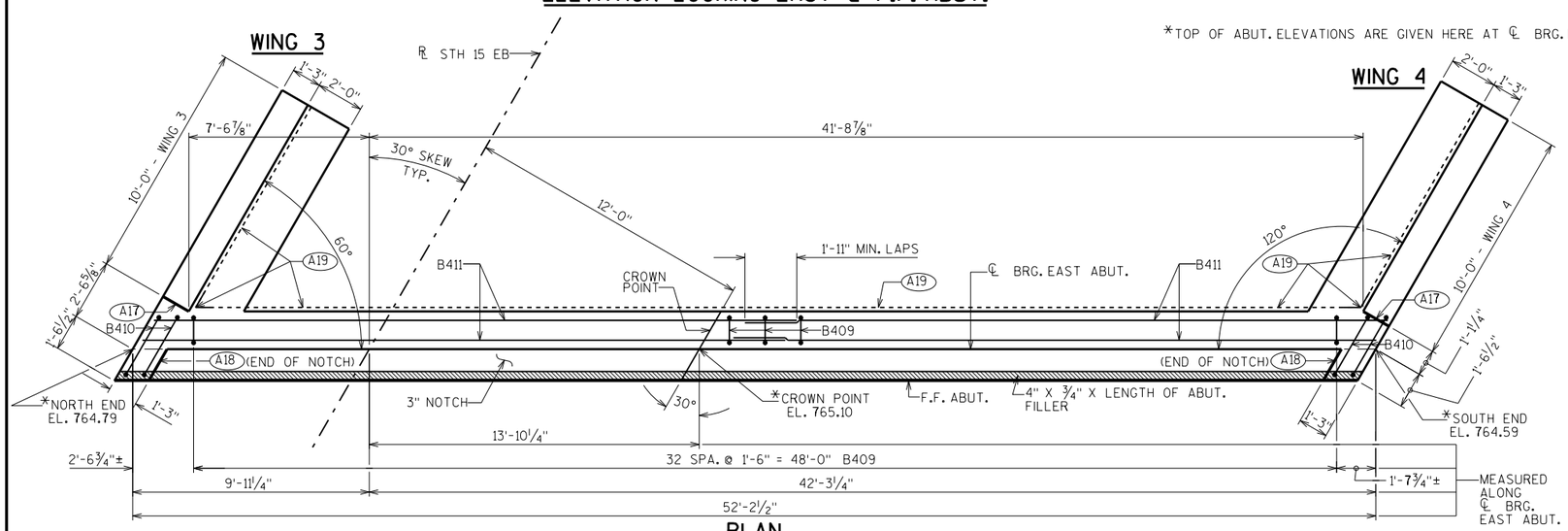
STATE PROJECT NUMBER

1146-75-71

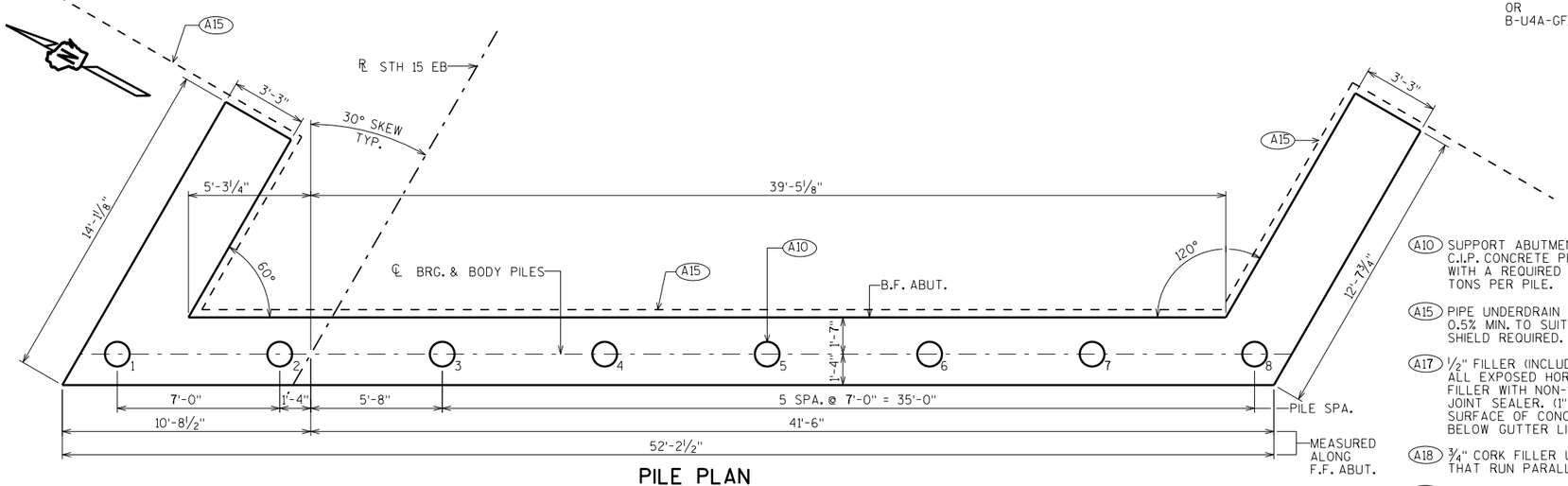


ELEVATION LOOKING EAST @ F.F. ABUT.

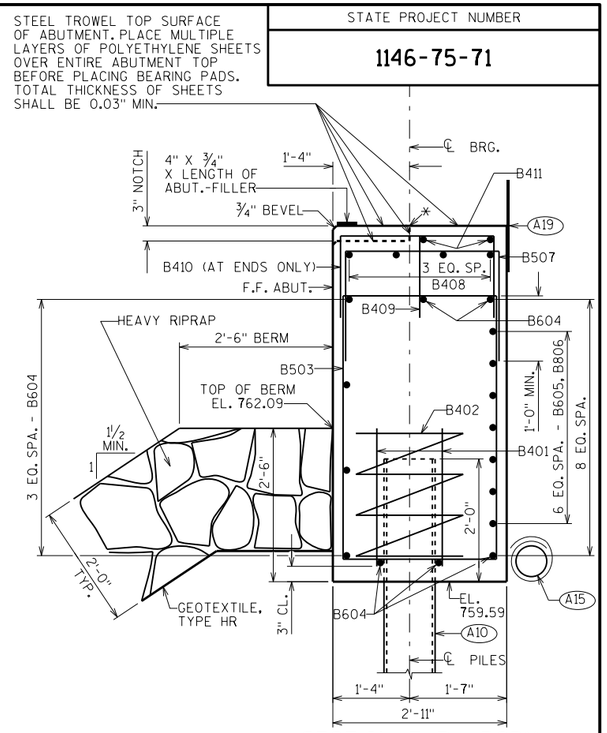
*TOP OF ABUT. ELEVATIONS ARE GIVEN HERE AT ℄ BRG. EAST ABUT.



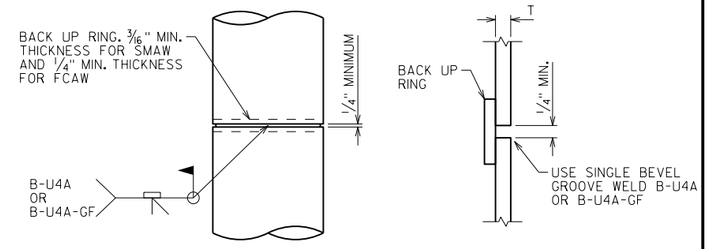
PLAN



PILE PLAN



SECTION THRU BODY



CAST-IN-PLACE 'PIPE PILE'

C.I.P. PILE WELD DETAIL

PILE DETAILS

A10 SUPPORT ABUTMENT ON 12¾" DIA. X 0.375" C.I.P. CONCRETE PILING, ESTIMATED 145'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 170 TONS PER PILE.

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

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A18 ¾" CORK FILLER UP VERT. NOTCH FACES THAT RUN PARALLEL WITH "℄ STH 15 EB".

A19 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

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STRUCTURE B-44-295

DRAWN BY JPH | PLANS CK'D. MJK

EAST ABUTMENT

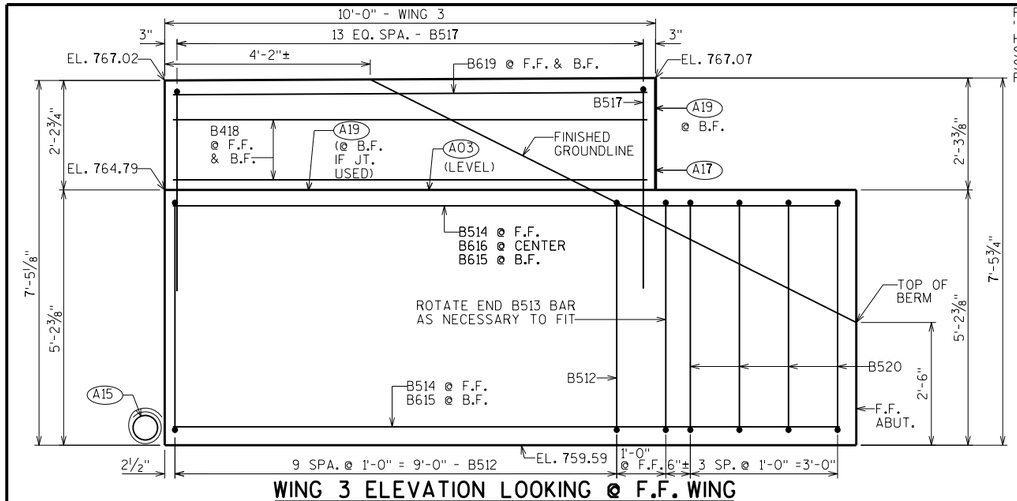
SHEET 6

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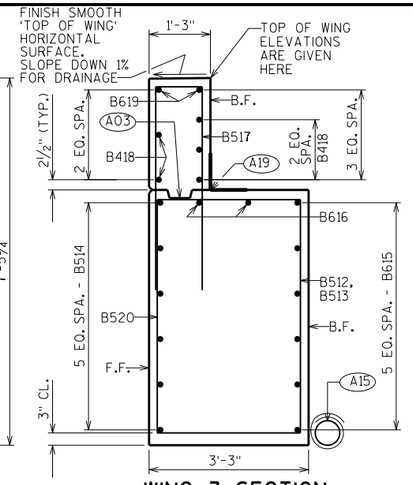
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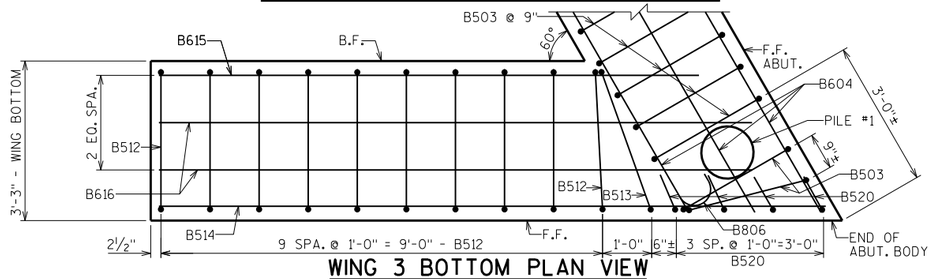
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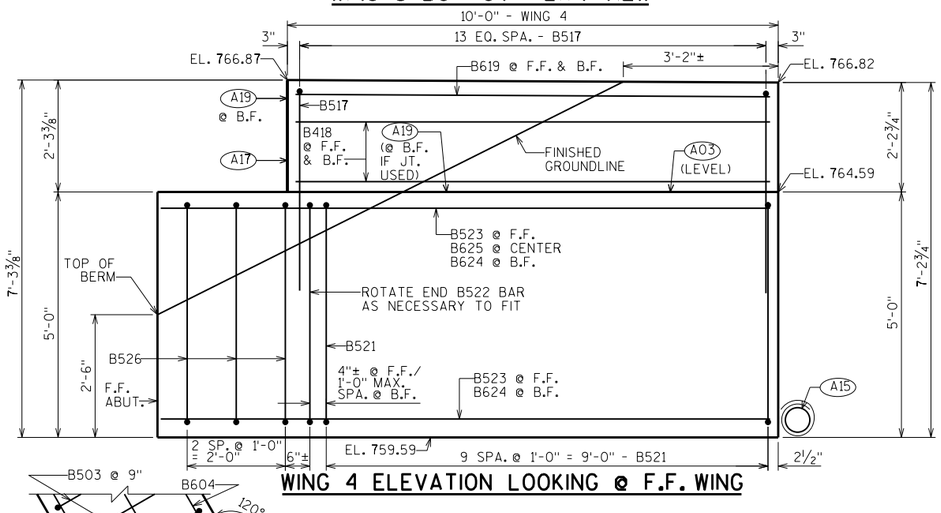
WING 3 ELEVATION LOOKING @ F.F. WING



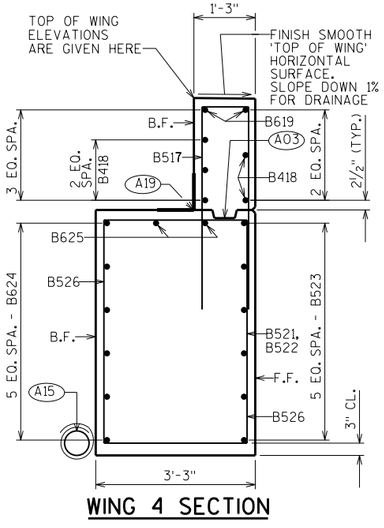
WING 3 SECTION



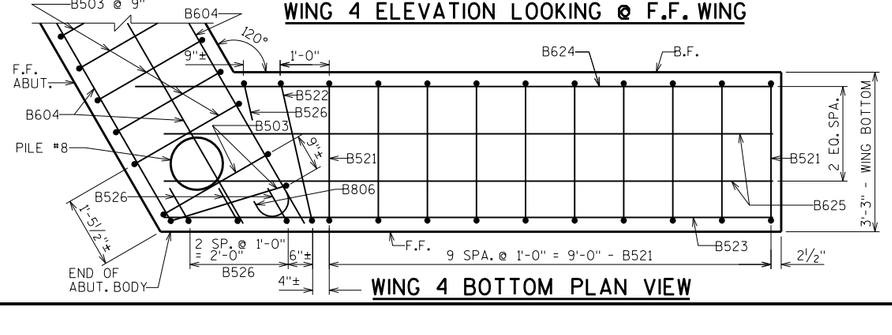
WING 3 BOTTOM PLAN VIEW



WING 4 ELEVATION LOOKING @ F.F. WING



WING 4 SECTION



WING 4 BOTTOM PLAN VIEW

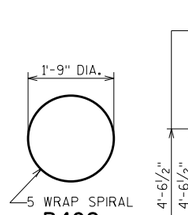
STATE PROJECT NUMBER

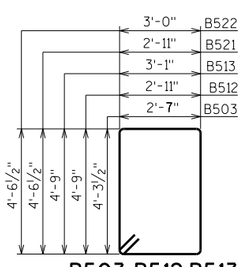
1146-75-71

BILL OF BARS

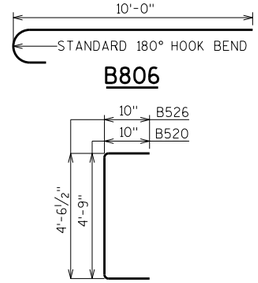
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

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B402		8	28'-0"	X	BODY-BOT.-SPIRAL-1 PER BODY PILE-VERT.
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B604		9	51'-9"		BODY-HORIZONTAL-END TO END
B605		7	39'-0"		BODY-HORIZONTAL-B.F.-AT CENTER
B806		14	10'-11"	X	BODY-HORIZONTAL-B.F.-AT BOTH ENDS
B507		26	5'-4"	X	BODY-TOP-VERT.-UNDER NOTCH
B408		4	25'-3"		BODY-TOP-HORIZ.-UNDER NOTCH
B409		33	3'-9"	X	BODY-TOP-VERT.-ALONG NOTCH
B410		4	5'-6"	X	BODY-TOP-VERT.-AT ENDS ONLY
B411		4	27'-0"		BODY-TOP-HORIZ.-END TO END
B512	X	10	16'-0"	X	WING 3-BOT.-STIRRUP-VERT.
B513	X	1	16'-4"	X	WING 3-BOT.-STIRRUP-VERT.
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B616	X	2	12'-1"		WING 3-BOT.-HORIZONTAL-CENTER
B517	X	28	8'-11"	X	WINGS 3&4-TOP-VERTICAL
B418	X	10	9'-8"		WINGS 3&4-TOP-HORIZONTAL-B.F. & F.F.
B619	X	4	9'-8"		WINGS 3&4-TOP-HORIZONTAL-B.F. & F.F.
B520	X	4	6'-2"	X	WING 3/BODY END-BOT.-VERT.-F.F.
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B522	X	1	15'-9"	X	WING 4-BOT.-STIRRUP-VERT.
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B526	X	4	6'-0"	X	WING 4/BODY END-BOT.-VERT.-F.F. & B.F.

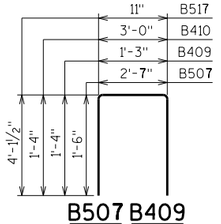




B503 B512 B513
B521 B522



B520 B526



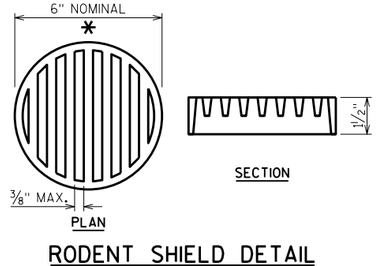
B507 B409
B410 B517

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2" × 6". (18" RMW @ B.F. & ¾" "V" GROOVE @ F.F. IF JOINT IS USED).

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING, GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



RODENT SHIELD DETAIL

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-295

DRAWN BY JPH | PLANS CK'D. MJK

EAST ABUTMENT DETAILS

SHEET 7

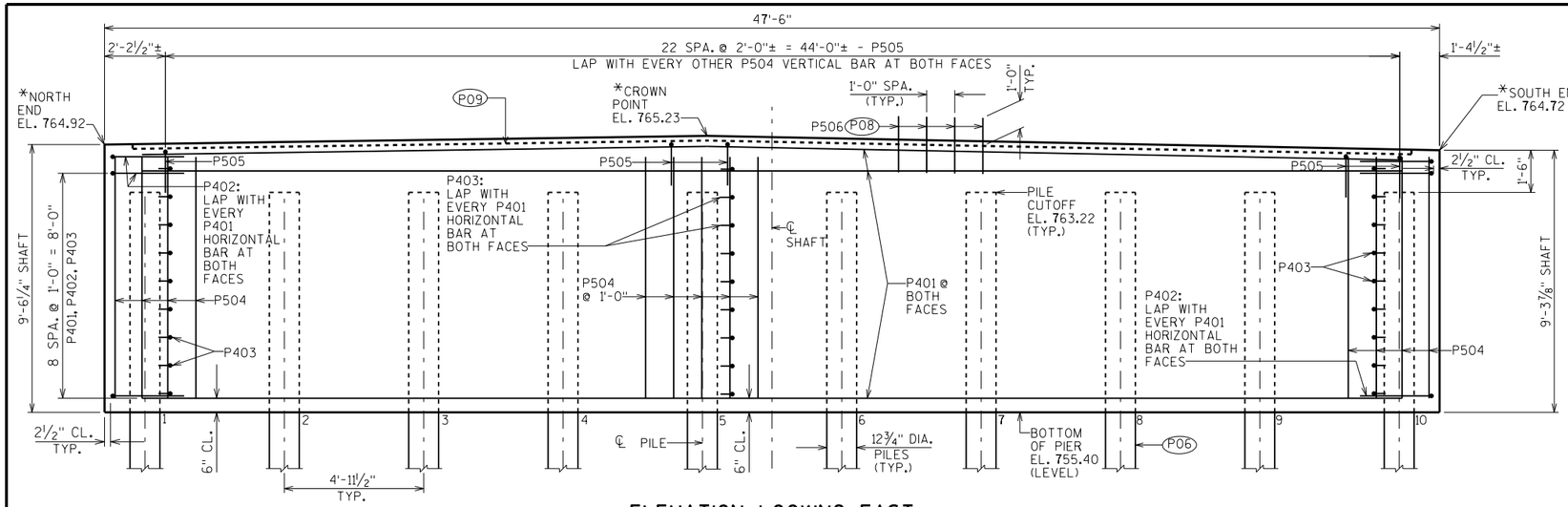
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SCALE = 1.50

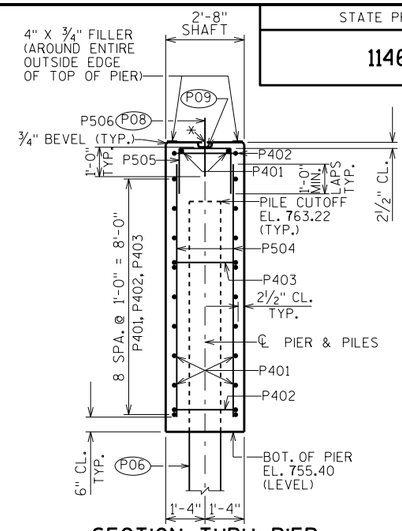
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STATE PROJECT NUMBER
1146-75-71

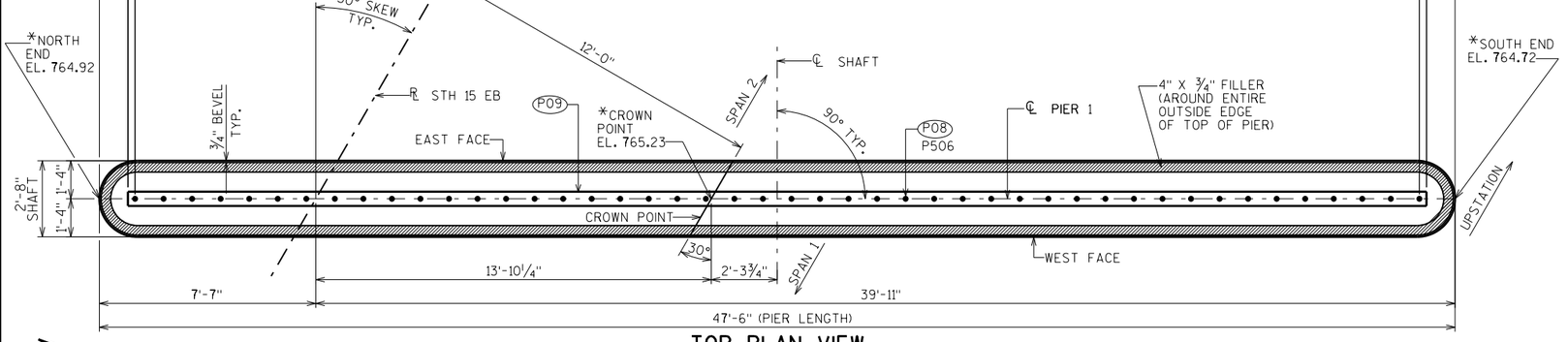


ELEVATION LOOKING EAST

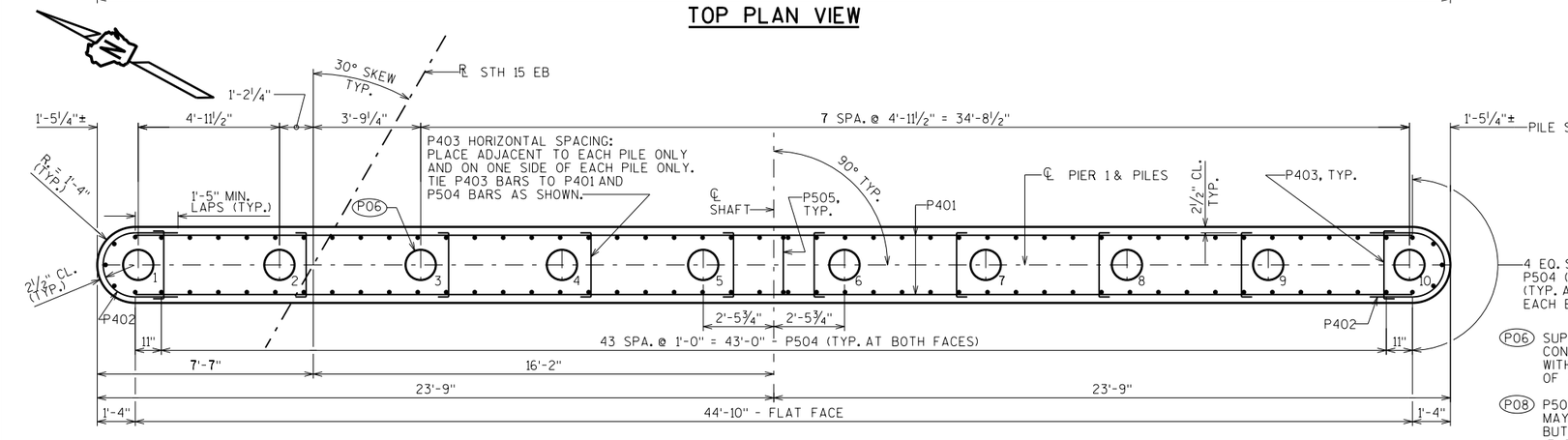


SECTION THRU PIER

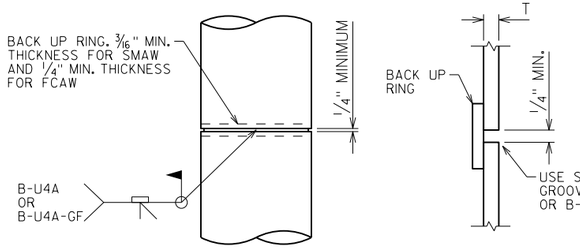
*TOP OF PIER SHAFT ELEVATIONS ARE GIVEN HERE AT THE ℄ PIER 1



TOP PLAN VIEW



PILE & REINFORCEMENT PLAN



CAST-IN-PLACE 'PIPE PILE'

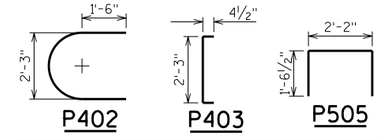
C.I.P. PILE WELD DETAIL

PILE DETAILS

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
P401		20	44'-10"		SHAFT-HORIZ.-AT BOTH FACES
P402		20	6'-6"	X	SHAFT-HORIZ.-AT BOTH ENDS
P403		90	2'-10"	X	SHAFT-HORIZ.-AT EACH PILE
P504		98	8'-7"		SHAFT-VERT.-AT BOTH FACES
P505		23	5'-0"	X	SHAFT-VERT.-TOP
P506		46	2'-0"		SHAFT-VERT.-TOP-CENTER



P06 SUPPORT PIER ON 12¾" DIA. X 0.375" C.I.P. CONCRETE PILING, ESTIMATED 145'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 210 TONS PER PILE.

P08 P506 BARS @ 1'-0" SPA. AT TOP OF PIER CAP. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

P09 KEYED CONSTRUCTION JOINT-FORMED BY BEVELED 2" x 6" AT TOP OF PIER CAP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-295

DRAWN BY JPH | PLANS CK'D. MJK

PIER 1

SHEET 8

378

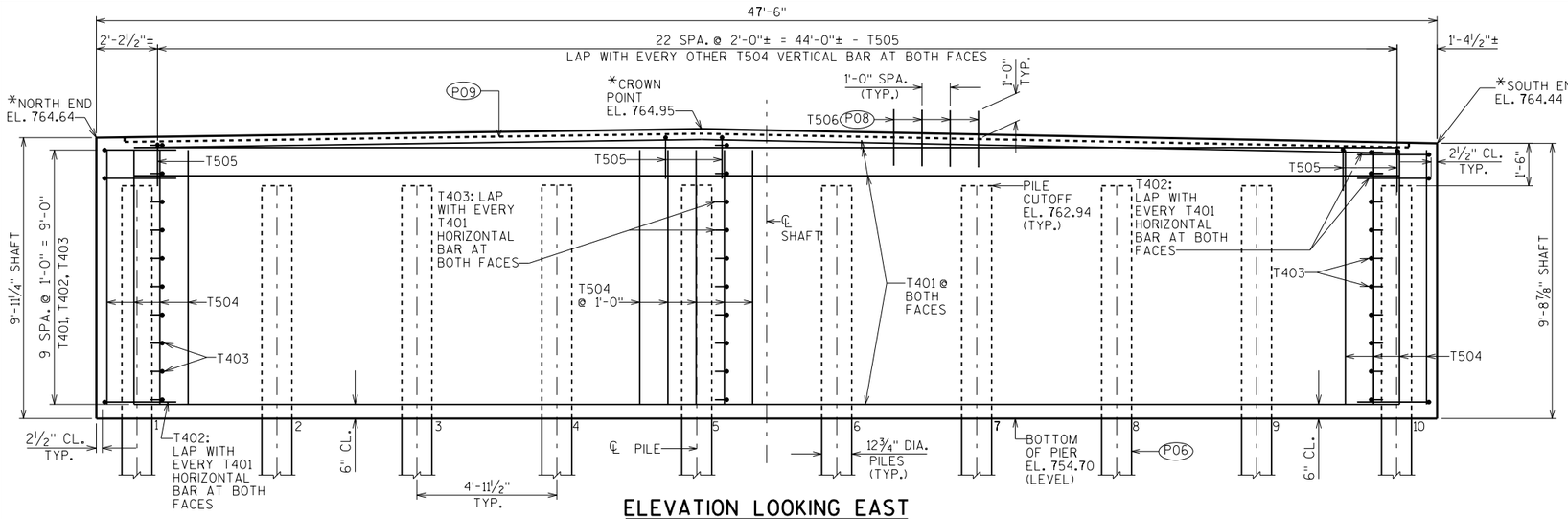
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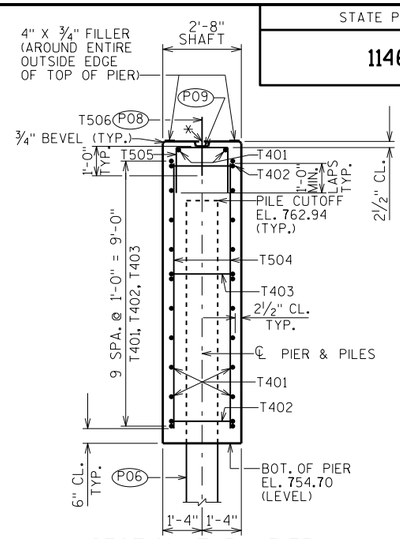
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STATE PROJECT NUMBER

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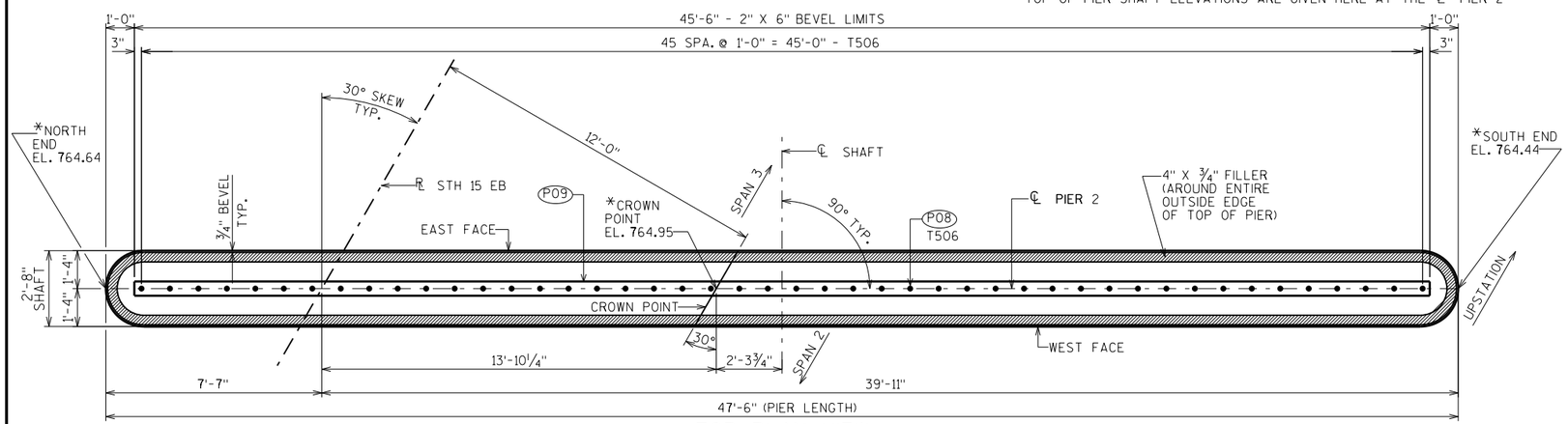


ELEVATION LOOKING EAST

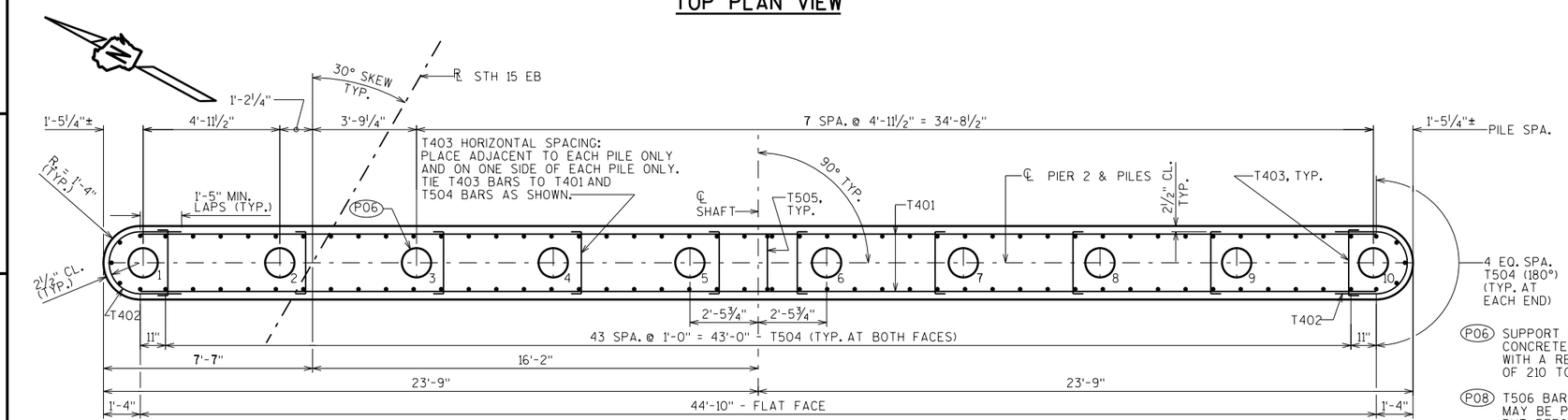


SECTION THRU PIER

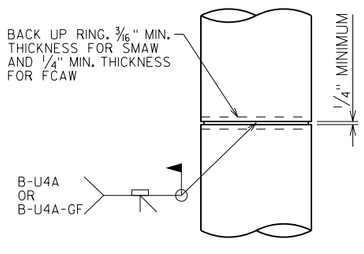
*TOP OF PIER SHAFT ELEVATIONS ARE GIVEN HERE AT THE ℄ PIER 2



TOP PLAN VIEW



PILE & REINFORCEMENT PLAN



CAST-IN-PLACE 'PIPE PILE'

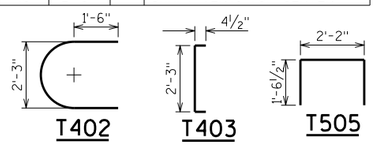
C.I.P. PILE WELD DETAIL

PILE DETAILS

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
T401		22	44'-10"		SHAFT-HORIZ.-AT BOTH FACES
T402		20	6'-6"	X	SHAFT-HORIZ.-AT BOTH ENDS
T403		100	2'-10"	X	SHAFT-HORIZ.-AT EACH PILE
T504		98	9'-0"		SHAFT-VERT.-AT BOTH FACES
T505		23	5'-0"	X	SHAFT-VERT.-TOP
T506		46	2'-0"		SHAFT-VERT.-TOP-CENTER



P06 SUPPORT PIER ON 12¾" DIA. X 0.375" C.I.P. CONCRETE PILING, ESTIMATED 145'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 210 TONS PER PILE.

P08 T506 BARS @ 1'-0" SPA. AT TOP OF PIER CAP. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

P09 KEYED CONSTRUCTION JOINT-FORMED BY BEVELED 2" x 6" AT TOP OF PIER CAP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-295

DRAWN BY JPH | PLANS CK'D. MJK

PIER 2

SHEET 9

379

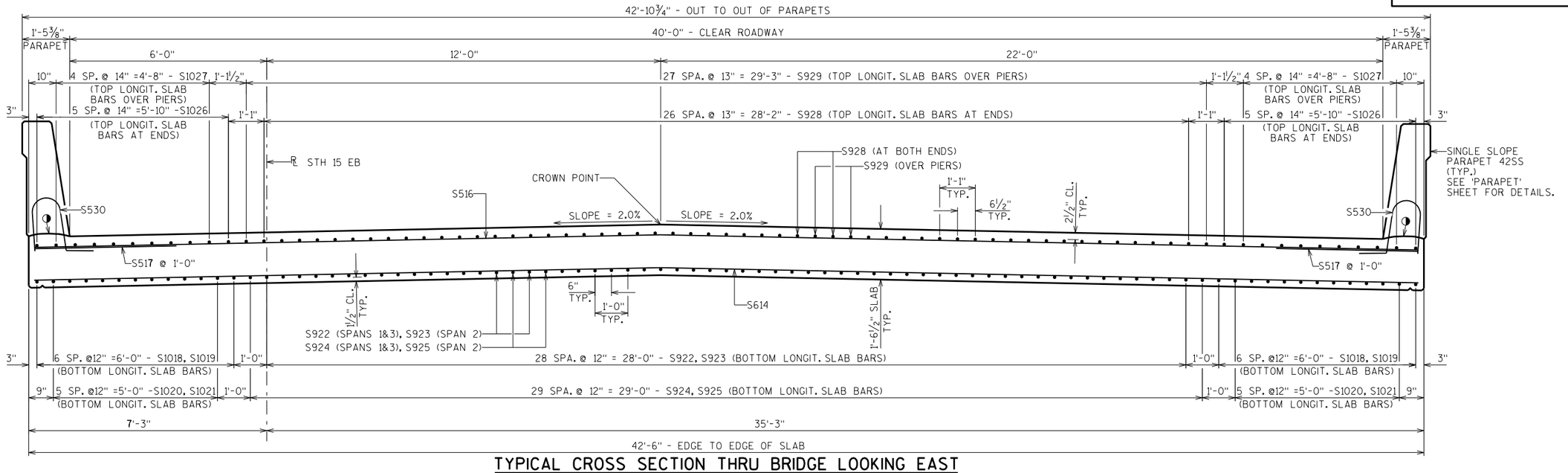
SCALE = 2.50

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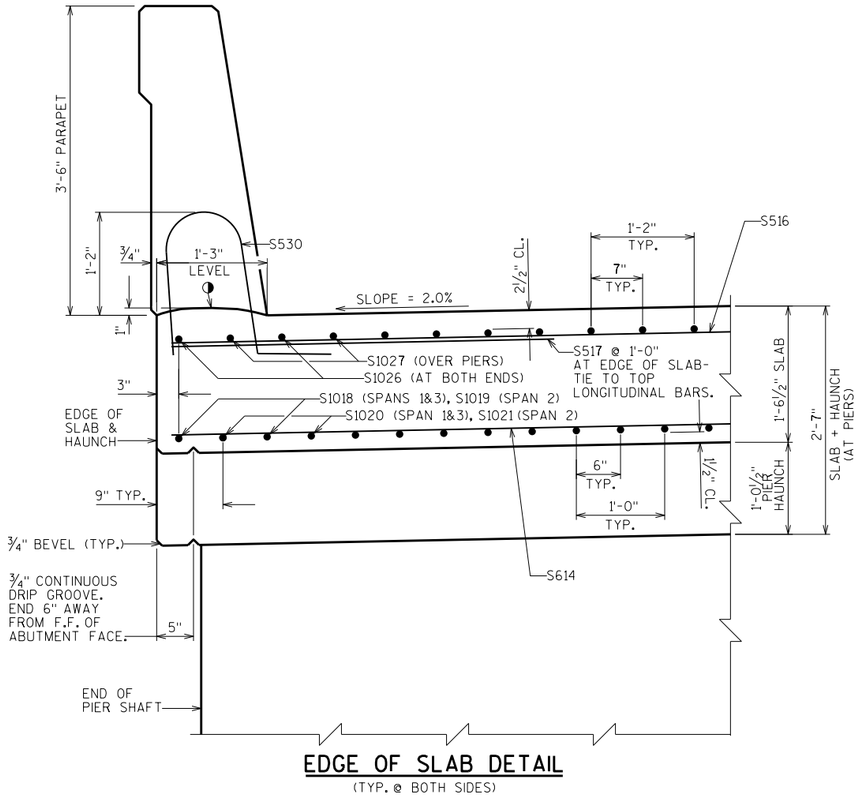
STATE PROJECT NUMBER

1146-75-71



TYPICAL CROSS SECTION THRU BRIDGE LOOKING EAST

(SHOWING IN-SPAN REINFORCEMENT)



EDGE OF SLAB DETAIL

(TYP. @ BOTH SIDES)

NOTES:

FOR THE SECTIONS THRU THE ABUTMENT DIAPHRAGMS SEE "SUPERSTRUCTURE DETAILS" SHEET.

SEE "SUPERSTRUCTURE DETAILS" SHEET FOR ABUTMENT DIAPHRAGM CORNER DETAILS.

FOR THE SECTION THRU THE PIER DIAPHRAGM SEE "SUPERSTRUCTURE DETAILS" SHEET.

◑HORIZ. CONST. JOINT: STRIKE OFF AND LEAVE ROUGH AS SHOWN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-295

DRAWN BY JPH/MJH | PLANS CK'D. MJK

SUPERSTRUCTURE CROSS SECTIONS 1

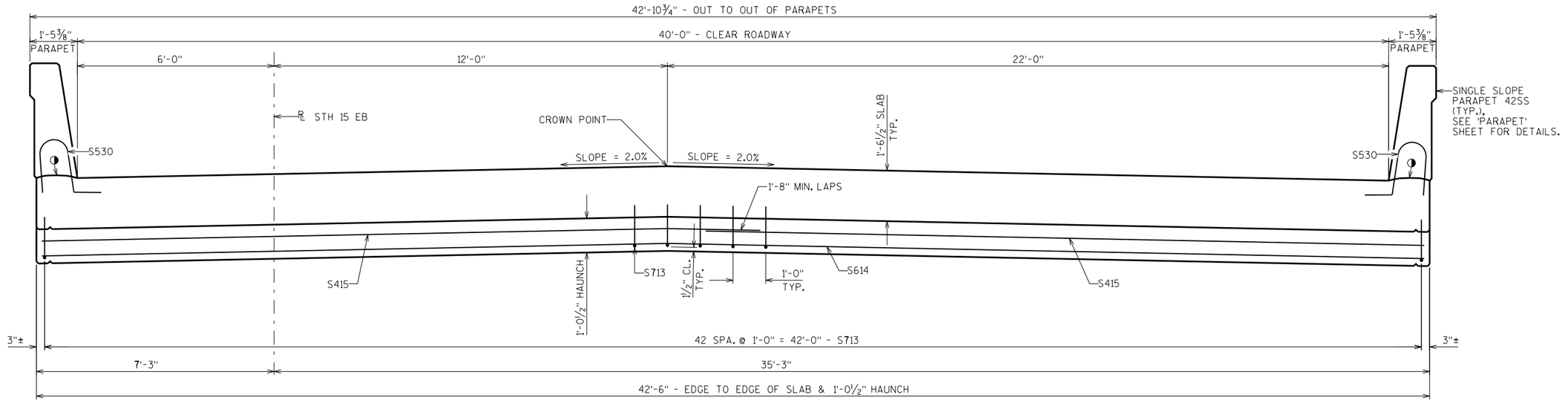
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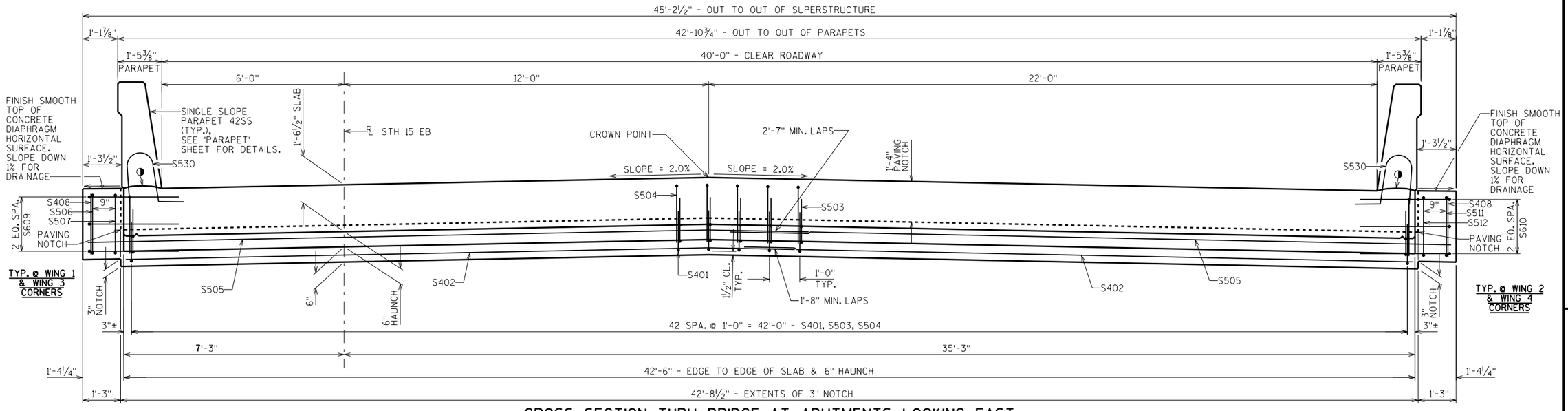
STATE PROJECT NUMBER

1146-75-71



CROSS SECTION THRU BRIDGE AT PIERS LOOKING EAST

(SLAB REINFORCEMENT NOT SHOWN)



CROSS SECTION THRU BRIDGE AT ABUTMENTS LOOKING EAST

(EAST ABUTMENT SHOWN, WEST ABUTMENT SIMILAR - SLAB REINFORCEMENT NOT SHOWN)

NOTES:

FOR THE SECTIONS THRU THE ABUTMENT DIAPHRAGMS SEE "SUPERSTRUCTURE DETAILS" SHEET.

SEE "SUPERSTRUCTURE DETAILS" SHEET FOR ABUTMENT DIAPHRAGM CORNER DETAILS.

FOR THE SECTION THRU THE PIER DIAPHRAGM SEE "SUPERSTRUCTURE DETAILS" SHEET.

◑HORIZ. CONST. JOINT: STRIKE OFF AND LEAVE ROUGH AS SHOWN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-295

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SUPERSTRUCTURE CROSS SECTIONS 2

SHEET 11

381

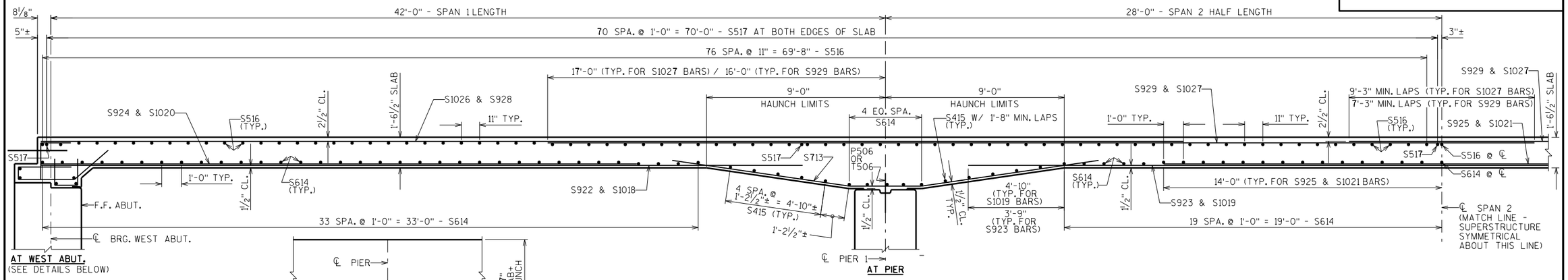
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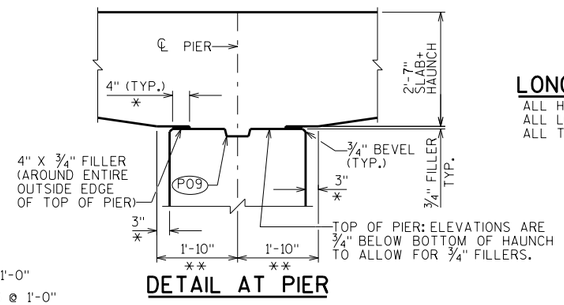
STATE PROJECT NUMBER

1146-75-71

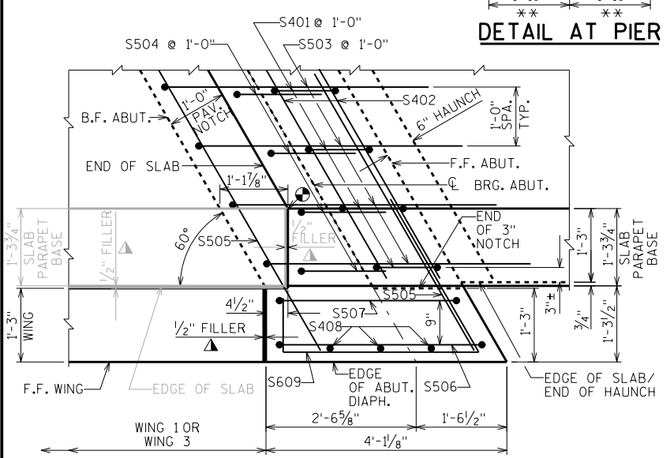


LONGITUDINAL SECTION THRU BRIDGE LOOKING NORTH

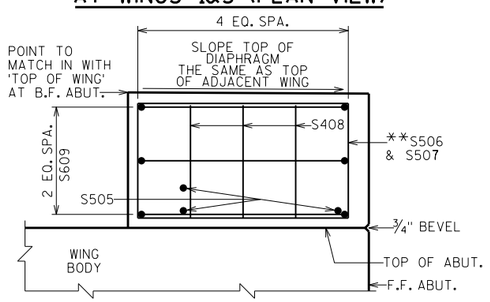
ALL HORIZONTAL DIMENSIONS ARE TAKEN PARALLEL TO "R STH 15 EB".
ALL LONGITUDINAL BARS ARE PLACED PARALLEL TO "℄ STH 15 EB".
ALL TRANSVERSE BARS ARE PLACED PARALLEL TO ℄ SUBSTRUCTURES.



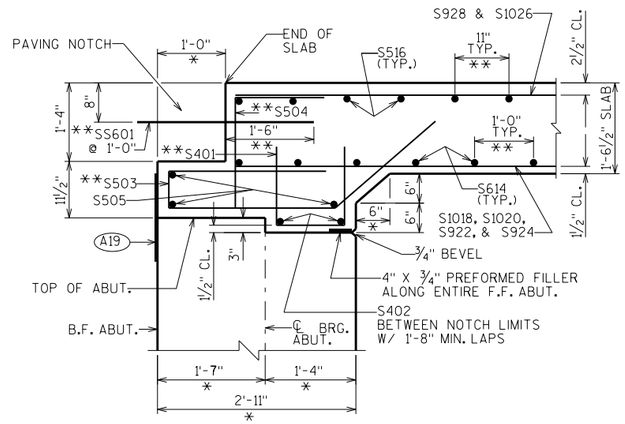
DETAIL AT PIER



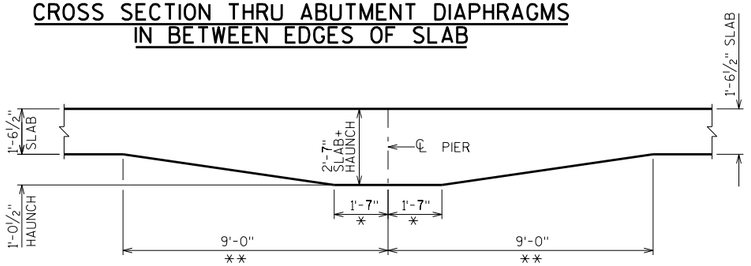
TYPICAL CORNER DETAIL AT WINGS 1&3 (PLAN VIEW)



TYPICAL CORNER DETAIL AT WINGS 1&3 (ELEVATION VIEW LOOKING AT F.F. WING)

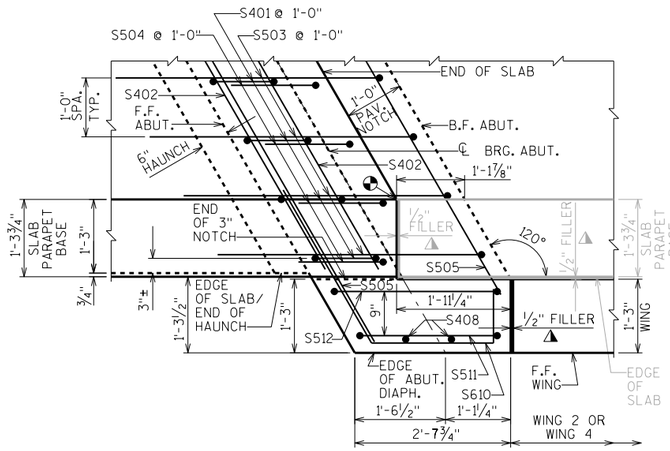


CROSS SECTION THRU ABUTMENT DIAPHRAGMS IN BETWEEN EDGES OF SLAB

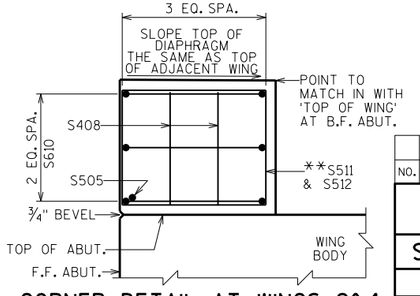


PART LONGITUDINAL SLAB & HAUNCH SECTION AT PIERS LOOKING AT OUTSIDE FACE

(STEEL REINFORCEMENT NOT SHOWN)



TYPICAL CORNER DETAIL AT WINGS 2&4 (PLAN VIEW)



TYPICAL CORNER DETAIL AT WINGS 2&4 (ELEVATION VIEW LOOKING AT F.F. WING)

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(P09) KEYED CONSTRUCTION JOINT-FORMED BY BEVELED 2" x 6".

*DIMENSION IS TAKEN PERPENDICULAR TO ℄ SUBSTRUCTURES.

**DIMENSION IS TAKEN PARALLEL TO "R STH 15 EB". BARS PLACED PARALLEL TO "℄ STH 15 EB".

◔ SQUARE OFF ENDS OF PAVING NOTCH AT INSIDE FACE OF PARAPET

⚠ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING, GRAY AND NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

GENERAL NOTES

SEE 'BAR DETAILS' SHEET FOR THE 'BILL OF BARS' AND BAR DETAILS.

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

PARAPETS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED, EXCEPT FOR STAGED CONSTRUCTION.

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE ℄ OF ABUTMENTS, THE ℄ OF PIERS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES, ℄ STH 15 EB AND CROWN POINT.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-295

DRAWN BY JPH | PLANS CK'D. MJK

SUPERSTRUCTURE DETAILS

SHEET 12

382

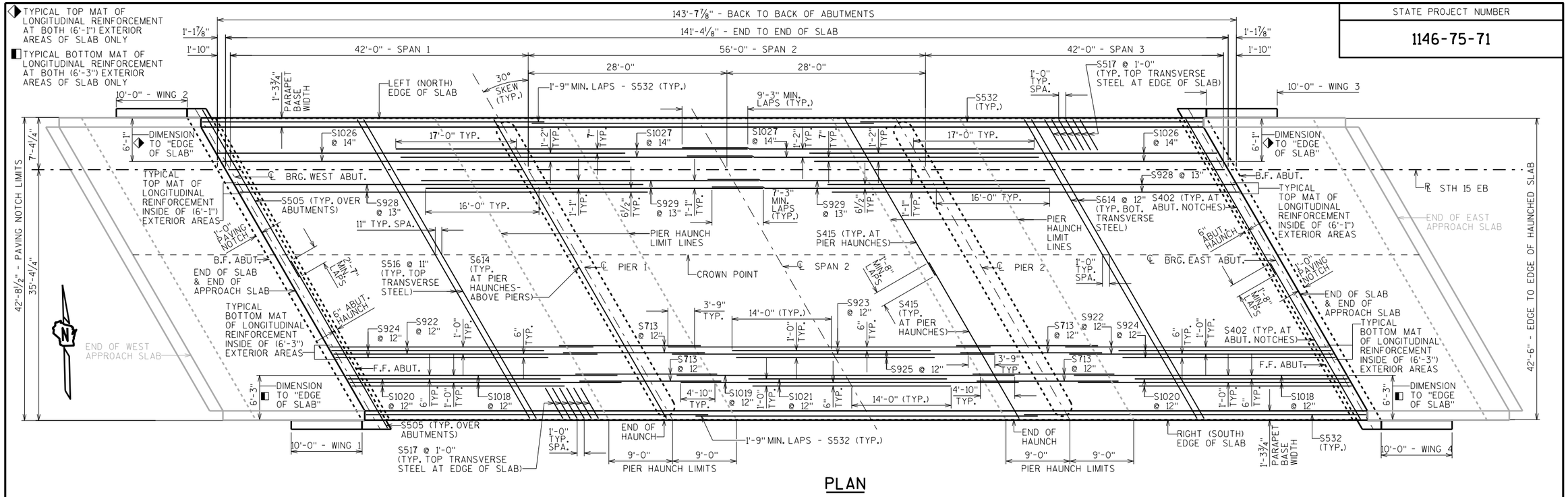
SCALE = 2.50

STATE PROJECT NUMBER

1146-75-71

◆ TYPICAL TOP MAT OF LONGITUDINAL REINFORCEMENT AT BOTH (6'-1") EXTERIOR AREAS OF SLAB ONLY

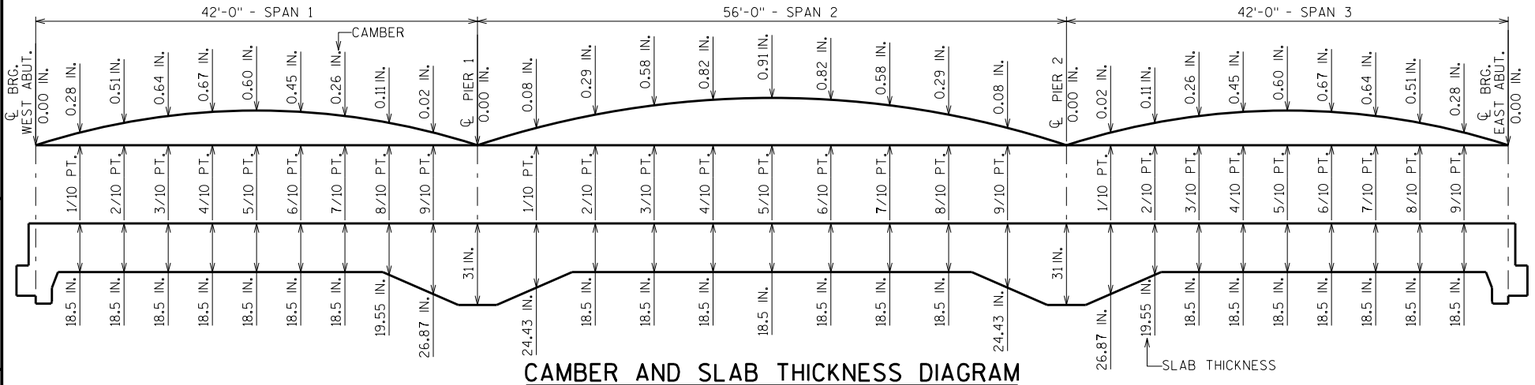
◧ TYPICAL BOTTOM MAT OF LONGITUDINAL REINFORCEMENT AT BOTH (6'-3") EXTERIOR AREAS OF SLAB ONLY



PLAN

TOP OF SLAB ELEVATIONS

	℄ BRG. W. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	℄ PIER 1	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	℄ PIER 2	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	℄ BRG. E. ABUT.	
NORTH EDGE OF SLAB	767.78	767.76	767.74	767.72	767.70	767.68	767.65	767.63	767.61	767.59	767.57	767.54	767.51	767.49	767.46	767.43	767.40	767.37	767.35	767.32	767.29	767.27	767.25	767.23	767.21	767.19	767.16	767.14	767.12	767.10	767.08	NORTH EDGE OF SLAB
℞ STH 15 EB	767.88	767.86	767.84	767.82	767.80	767.78	767.75	767.73	767.71	767.69	767.67	767.64	767.61	767.59	767.56	767.53	767.50	767.47	767.45	767.42	767.39	767.37	767.35	767.33	767.31	767.29	767.26	767.24	767.22	767.20	767.18	℞ STH 15 EB
CROWN POINT	768.09	768.06	768.04	768.02	768.00	767.98	767.96	767.94	767.92	767.90	767.88	767.85	767.82	767.79	767.76	767.74	767.71	767.68	767.65	767.62	767.60	767.57	767.55	767.53	767.51	767.49	767.47	767.45	767.43	767.41	767.39	CROWN POINT
SOUTH EDGE OF SLAB	767.58	767.56	767.54	767.52	767.49	767.47	767.45	767.43	767.41	767.39	767.37	767.34	767.31	767.28	767.26	767.23	767.20	767.17	767.14	767.12	767.09	767.07	767.05	767.03	767.00	766.98	766.96	766.94	766.92	766.90	766.88	SOUTH EDGE OF SLAB



CAMBER AND SLAB THICKNESS DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.
PARAPETS, SIDEWALKS AND MEDIANS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN & REFERENCE LINE FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE
LESS (-) SLAB THICKNESS
PLUS (+) CAMBER
PLUS (+) FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)
EQUALS = TOP OF SLAB FALSEWORK ELEVATION.

SURVEY TOP OF SLAB ELEVATIONS

	℄ BRG. WEST ABUTMENT	5/10 PT.	℄ PIER 1	5/10 PT.	℄ PIER 2	5/10 PT.	℄ BRG. EAST ABUTMENT
NORTH GUTTERLINE							
℞ STH 15 EB							
CROWN POINT							
SOUTH GUTTERLINE							

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE ℄ OF ABUTMENTS, THE ℄ OF PIERS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTERLINES, ℞, AND CROWN POINT. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

NOTES

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-295

DRAWN BY JPH/MJH | PLANS CK'D. MJK

SUPERSTRUCTURE PLAN & DATA

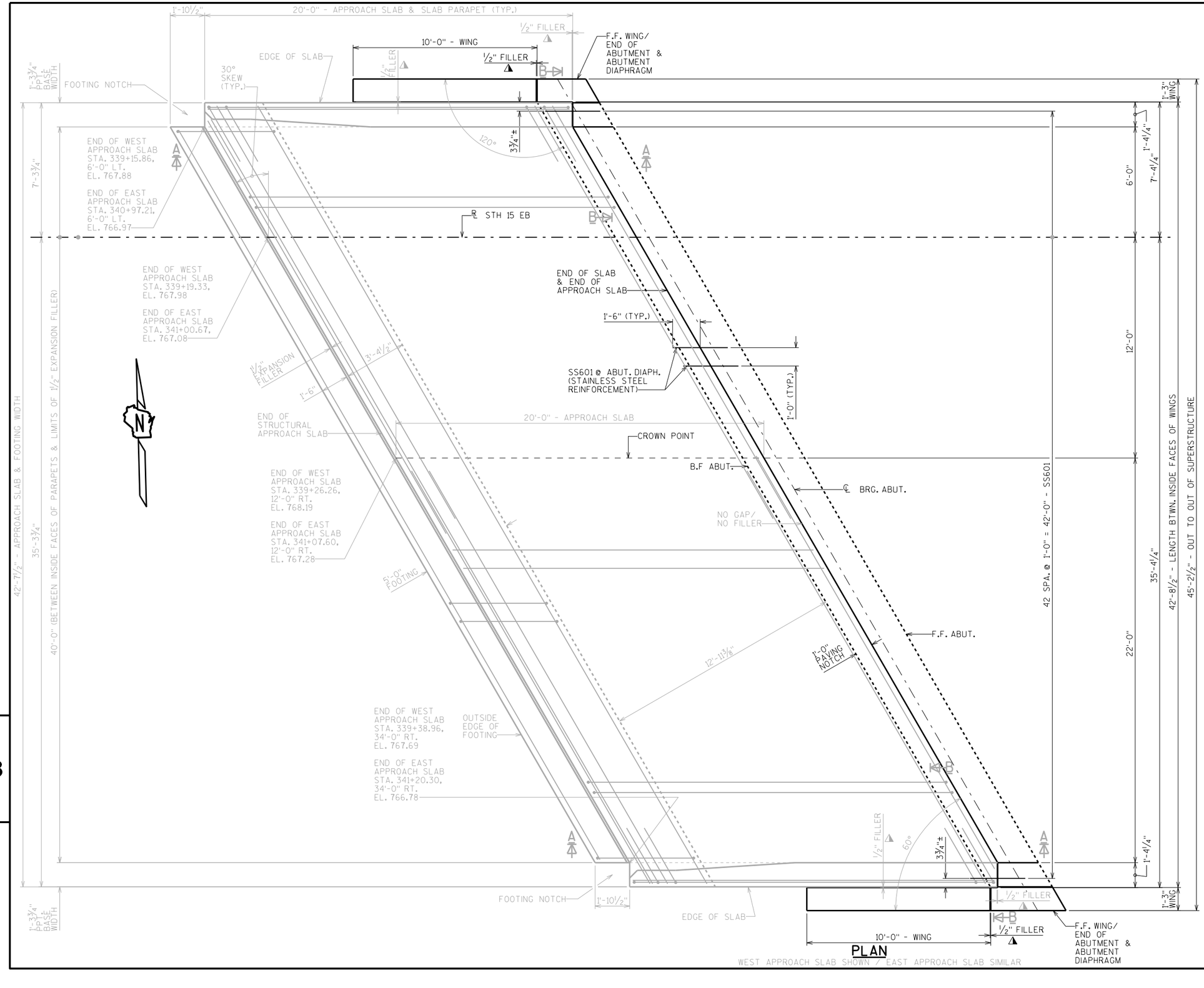
SHEET 13

383

SCALE = 7.00

STATE PROJECT NUMBER

1146-75-71



NOTE:
STRUCTURAL APPROACH SLABS TO BE CONSTRUCTED UNDER CONTRACT NUMBER 1146-75-77

⚠SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING, GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-295

DRAWN BY JPH | PLANS CK'D. MJK

STRUCTURAL APPROACH SLAB

SHEET 14

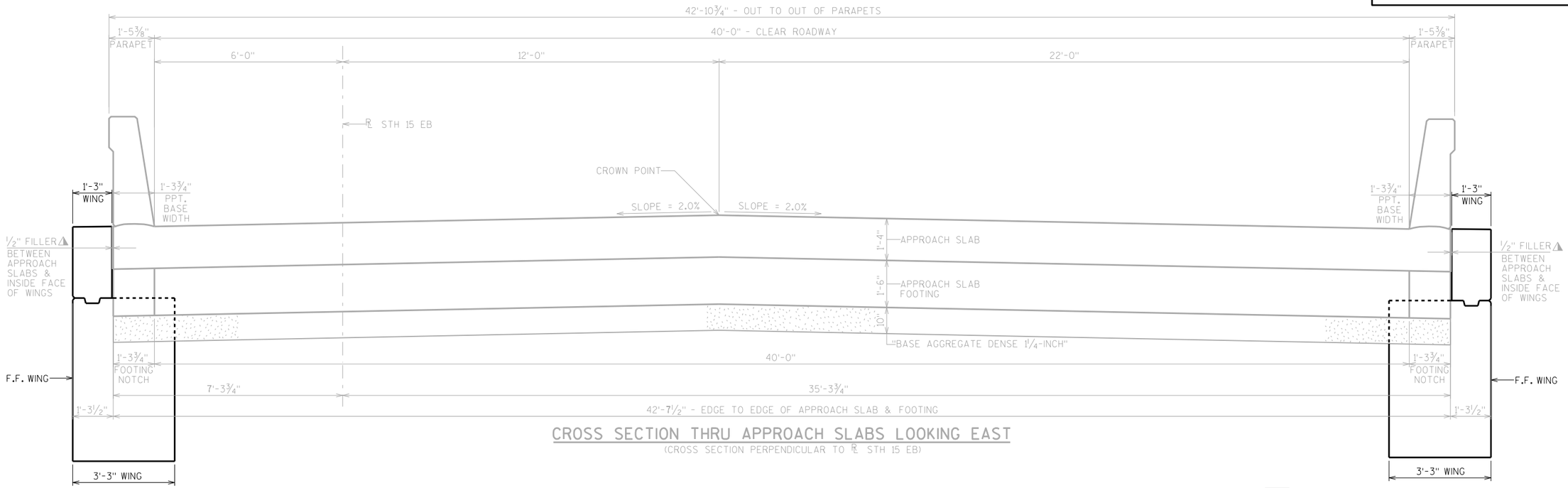
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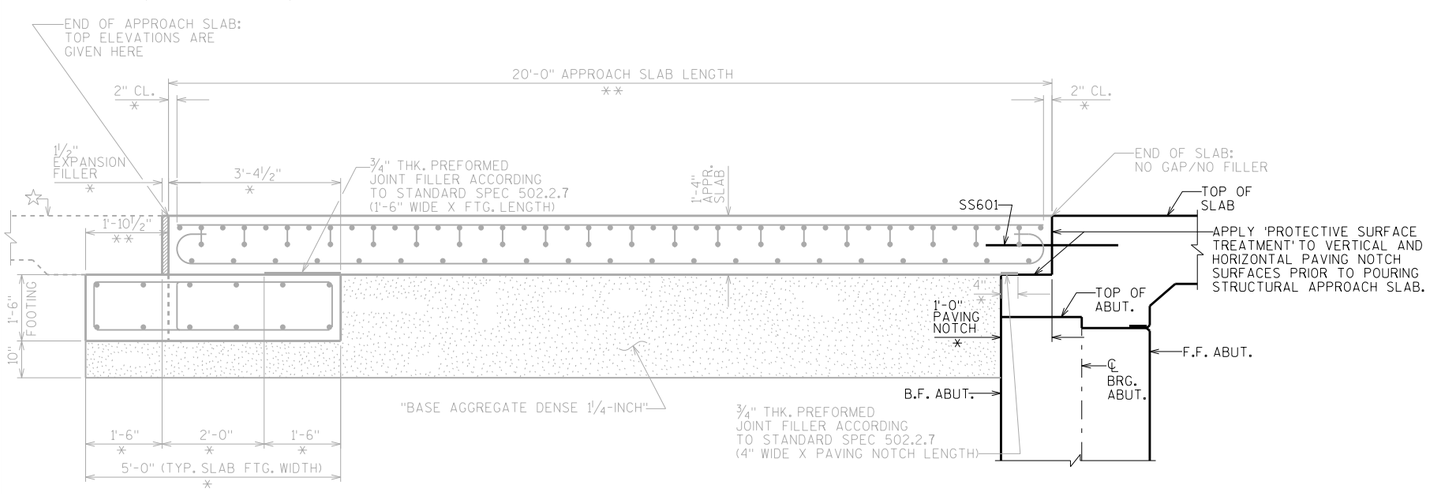
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STATE PROJECT NUMBER
1146-75-71



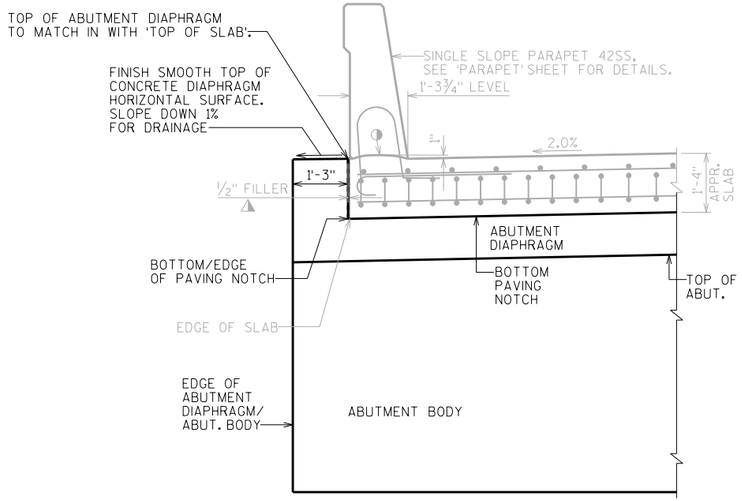
CROSS SECTION THRU APPROACH SLABS LOOKING EAST

(CROSS SECTION PERPENDICULAR TO ℄ STH 15 EB)



SECTION A-A THRU APPROACH SLAB

WEST APPROACH SLAB SHOWN / EAST APPROACH SLAB SIMILAR



SECTION B-B (EDGE OF SLAB DETAIL)

NOTE:
STRUCTURAL APPROACH SLABS TO BE CONSTRUCTED UNDER CONTRACT NUMBER 1146-75-77

*DIMENSION IS TAKEN NORMAL TO ℄ BRG. ABUTS.

**DIMENSION IS TAKEN PARALLEL TO ℄ STH 15 EB. BARS PLACED PARALLEL TO ℄ STH 15 EB.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-295

DRAWN BY JPH/MJH | PLANS CK'D. MJK

STRUCTURAL APPROACH SLAB DETAILS

SHEET 15

385

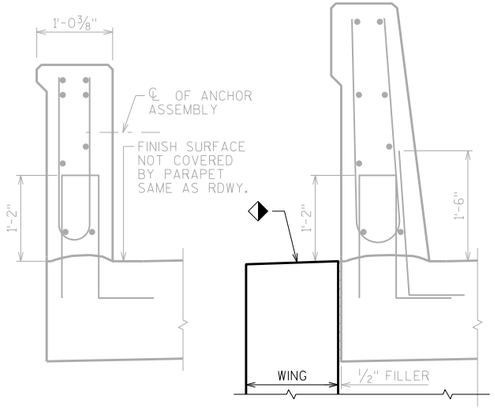
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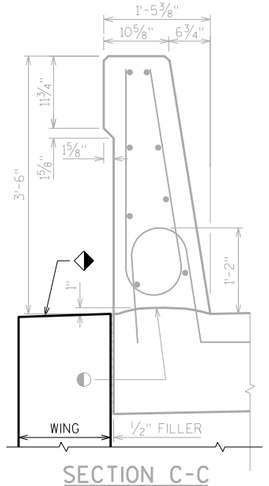
STATE PROJECT NUMBER

1146-75-71

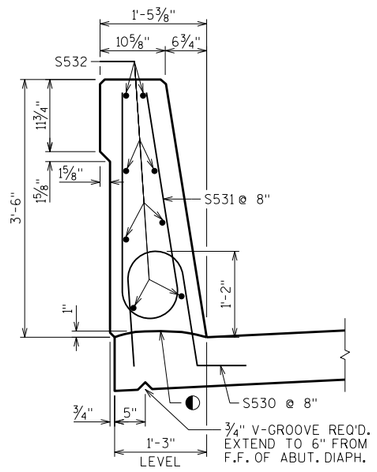


SECTION A-A

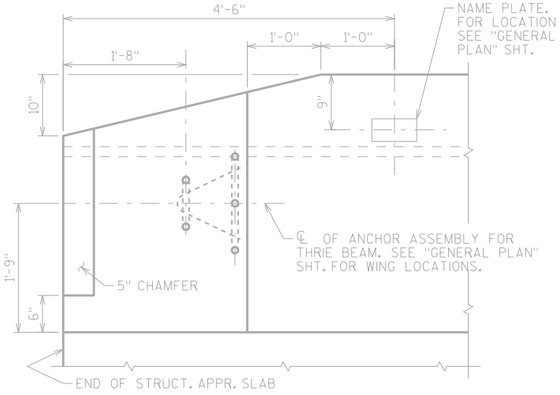
SECTION B-B



SECTION C-C

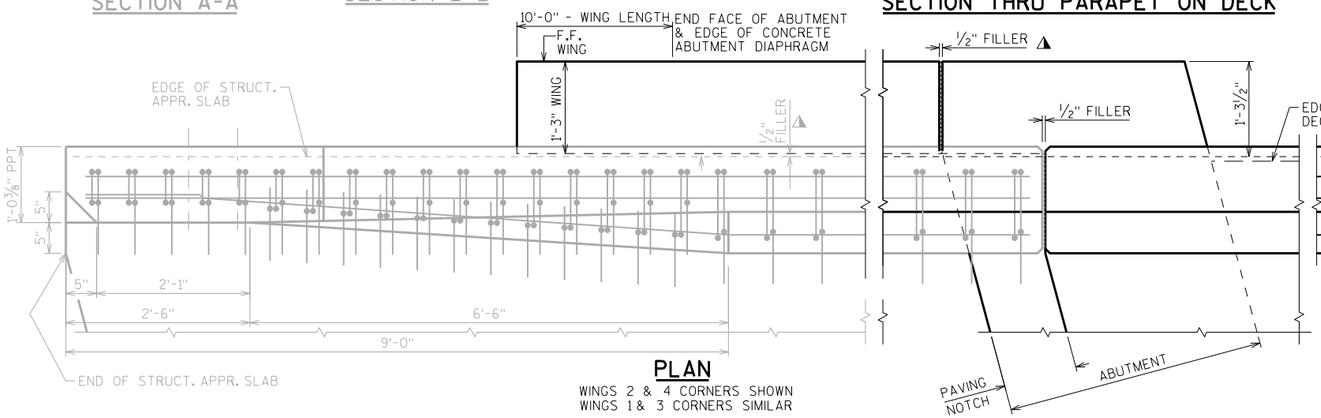


SECTION THRU PARAPET ON DECK



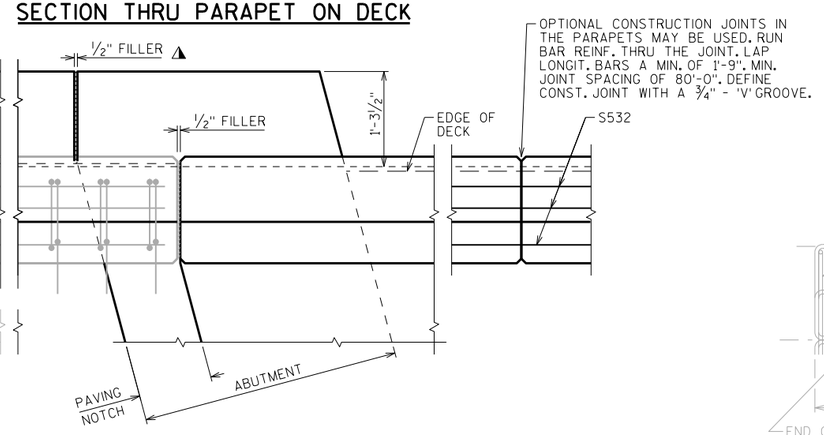
PARAPET END TREATMENT DETAIL

LOOKING AT INSIDE FACE OF PARAPET

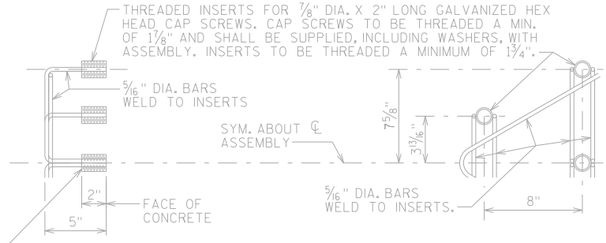


PLAN

WINGS 2 & 4 CORNERS SHOWN
WINGS 1& 3 CORNERS SIMILAR



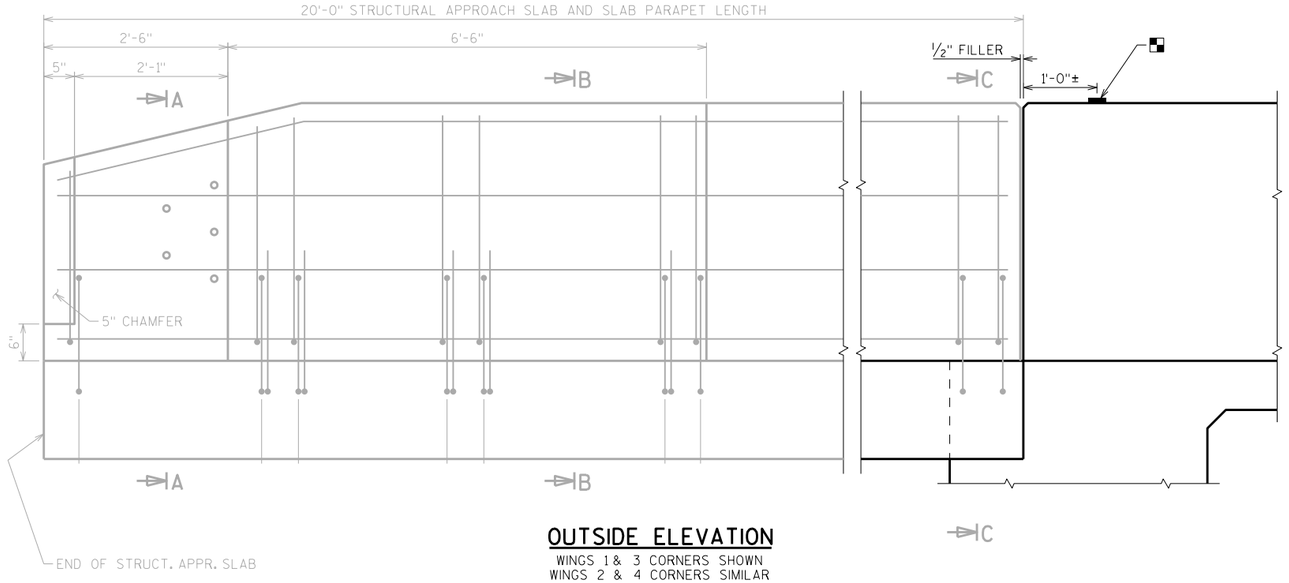
OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF. THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE CONST. JOINT WITH A ¾" - 'V' GROOVE.



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.



OUTSIDE ELEVATION

WINGS 1& 3 CORNERS SHOWN
WINGS 2 & 4 CORNERS SIMILAR

■ BENCH MARK CAP (WHEN SUPPLIED). AVOID PLACING A BENCH MARK CAP BELOW A RAIL OR FENCE SYSTEM THAT IS ATTACHED TO THE TOP OF THE PARAPET.

◐ CONST. JOINT - STRIKE OFF AS SHOWN

◆ SLOPE FOR DRAINAGE

▽ S530 BARS TO BE TIED TO SLAB STEEL BEFORE SLAB IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-295

DRAWN BY MJH | PLANS CK'D. MJK

SINGLE SLOPE PARAPET 42SS

SHEET 16

386

8

8

SCALE = 1.00

STATE PROJECT NUMBER

1146-75-71

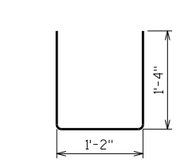
BILL OF BARS FOR SUPERSTRUCTURE

NOTE:
THE FIRST OR FIRST TWO DIGITS OF
THE BAR MARK SIGNIFIES THE BAR SIZE

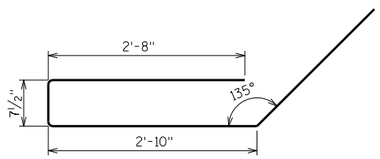
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
S401	X	86	3'-8"	X	ABUT. DIAPHS.-F.F.-BOT.-VERT.-LONGIT.-AT 3" NOTCHES
S402	X	8	25'-4"		ABUT. DIAPHS.-F.F.-BOT.-HORIZ.-TRANS.-AT 3" NOTCHES
S503	X	86	8'-1"	X	ABUT. DIAPHS./SLAB-BOT.-VERT.-LONGIT.-UNDER PAVING NOTCHES
S504	X	86	3'-4"	X	ABUT. DIAPHS./SLAB-VERT.-LONGIT.-ALONG PAVING NOTCHES
S505	X	12	27'-3"		ABUT. DIAPHS.-BOT.-HORIZ.-TRANSVERSE
S506	X	2	11'-8"	X	ABUT. DIAPHS.-VERTICAL-LONGIT.-AT WINGS 1&3 CORNERS ONLY
S507	X	2	10'-10"	X	ABUT. DIAPHS.-VERTICAL-LONGIT.-AT WINGS 1&3 CORNERS ONLY
S408	X	10	1'-11"		ABUT. DIAPHS.-OUTSIDE FACES-VERT.-AT ALL FOUR WING CORNERS
S609	X	6	7'-2"	X	ABUT. DIAPHS.-HORIZ.-TRANS.-AT WINGS 1&3 CORNERS ONLY
S610	X	6	6'-0"	X	ABUT. DIAPHS.-HORIZ.-TRANS.-AT WINGS 2&4 CORNERS ONLY
S511	X	2	9'-6"	X	ABUT. DIAPHS.-VERTICAL-LONGIT.-AT WINGS 2&4 CORNERS ONLY
S512	X	2	10'-4"	X	ABUT. DIAPHS.-VERTICAL-LONGIT.-AT WINGS 2&4 CORNERS ONLY
S713	X	86	21'-8"	X	PIER HAUNCHES-BOT.-VERT.-LONGIT.
S614	X	117	48'-8"		SLAB & PIER HAUNCHES-BOT.-HORIZ.-TRANSVERSE
S415	X	40	25'-3"		PIER HAUNCHES-BOT.-HORIZ.-TRANSVERSE-ON EACH SIDE OF PIERS
S516	X	155	48'-8"		SLAB-TOP-HORIZ.-TRANSVERSE
S517	X	284	5'-0"		SLAB-TOP-HORIZ.-TRANSVERSE-AT BOTH EDGES
S1018	X	28	38'-4"		SLAB-BOTTOM-HORIZ.-LONGIT.-AT SPANS 1&3 EXTERIORS
S1019	X	14	47'-8"		SLAB-BOTTOM-HORIZ.-LONGIT.-AT SPAN 2 EXTERIORS
S1020	X	24	30'-0"		SLAB-BOTTOM-HORIZ.-LONGIT.-AT SPANS 1&3 EXTERIORS
S1021	X	12	28'-0"		SLAB-BOTTOM-HORIZ.-LONGIT.-AT SPAN 2 EXTERIORS
S922	X	58	37'-3"		SLAB-BOTTOM-HORIZ.-LONGIT.-AT SPANS 1&3 INTERIOR
S923	X	29	45'-6"		SLAB-BOTTOM-HORIZ.-LONGIT.-AT SPAN 2 INTERIOR
S924	X	60	30'-0"		SLAB-BOTTOM-HORIZ.-LONGIT.-AT SPANS 1&3 INTERIOR
S925	X	30	28'-0"		SLAB-BOTTOM-HORIZ.-LONGIT.-AT SPAN 2 INTERIOR
S1026	X	24	57'-6"		SLAB-TOP-HORIZ.-LONGIT.-AT BOTH ENDS-EXTERIORS
S1027	X	20	49'-8"		SLAB-TOP-HORIZ.-LONGIT.-OVER PIERS 1&2-EXTERIORS
S928	X	54	57'-6"		SLAB-TOP-HORIZ.-LONGIT.-AT BOTH ENDS-INTERIOR
S929	X	56	47'-8"		SLAB-TOP-HORIZ.-LONGIT.-OVER PIERS 1&2-INTERIOR
S530	X	424	4'-5"	X	PARAPETS/SLAB-VERTICAL-TRANSVERSE-AT BOTH SIDES
S531	X	424	6'-8"	X	PARAPETS-VERTICAL-TRANSVERSE-AT BOTH SIDES
S532	X	48	48'-3"		PARAPETS-BOTH FACES-HORIZ.-LONGIT.-AT BOTH SIDES

SS601		86	3'-0"		HAUNCHED SLAB/APPROACH SLAB-HORIZ.-LONGIT.-AT PAVING NOTCHES

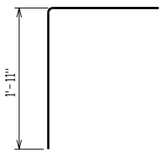
STAINLESS STEEL REINFORCEMENT



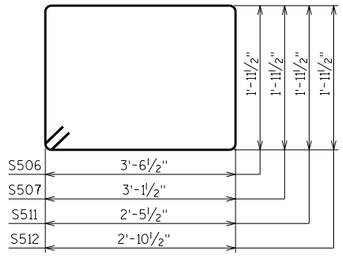
S401



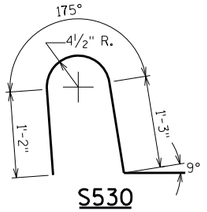
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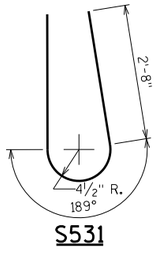
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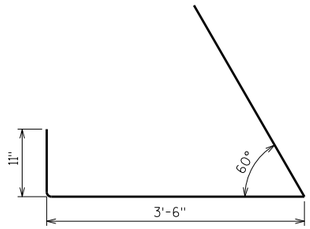
S506 S507 S511 S512
(STIRRUP BARS)



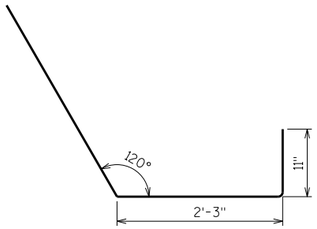
S530



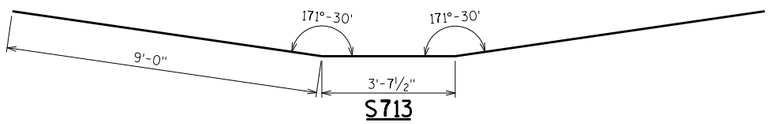
S531



S609



S610



S713

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-295

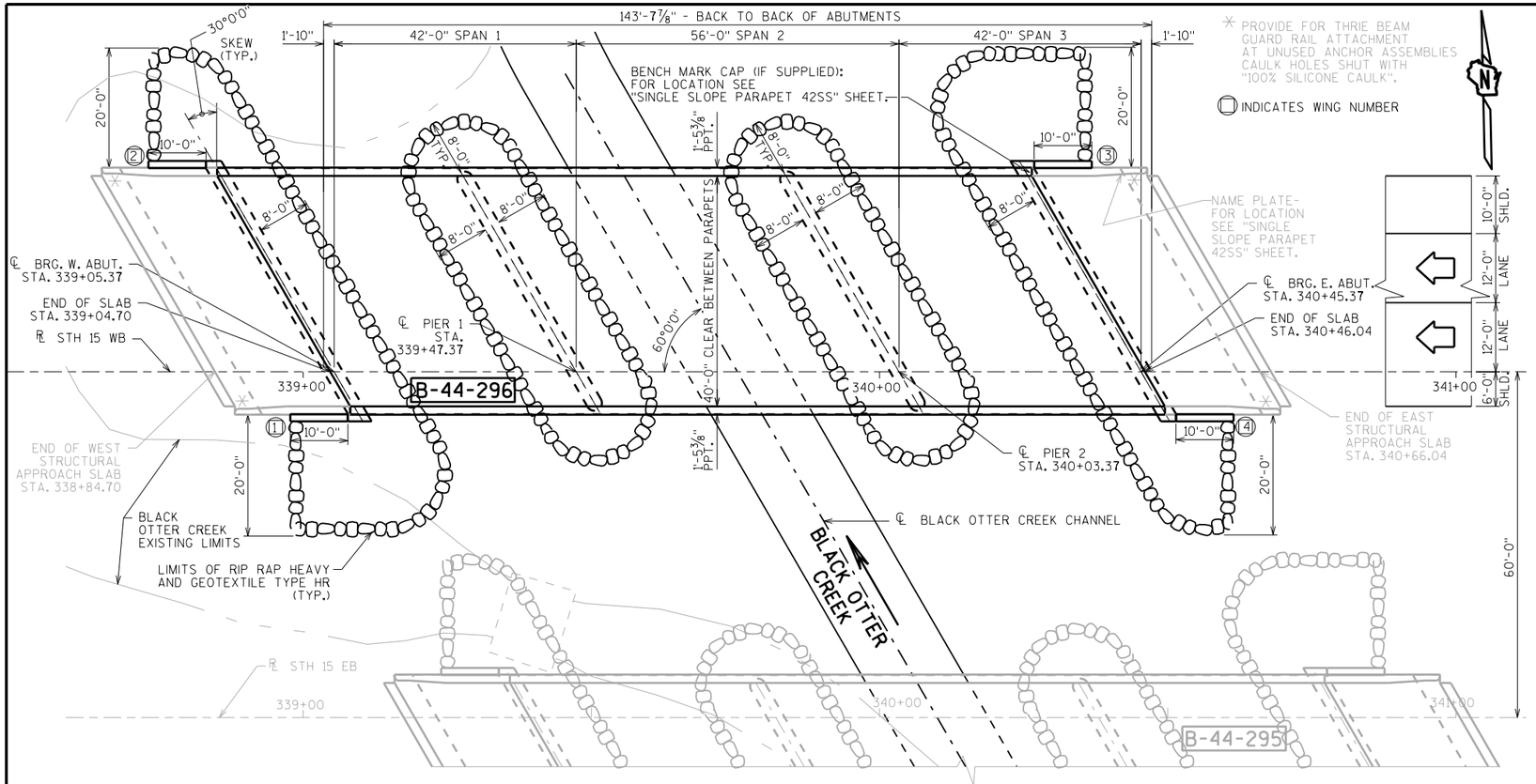
DRAWN BY JPH/MJH | PLANS CK'D. MJK

SUPERSTRUCTURE BAR DETAILS

SHEET 17

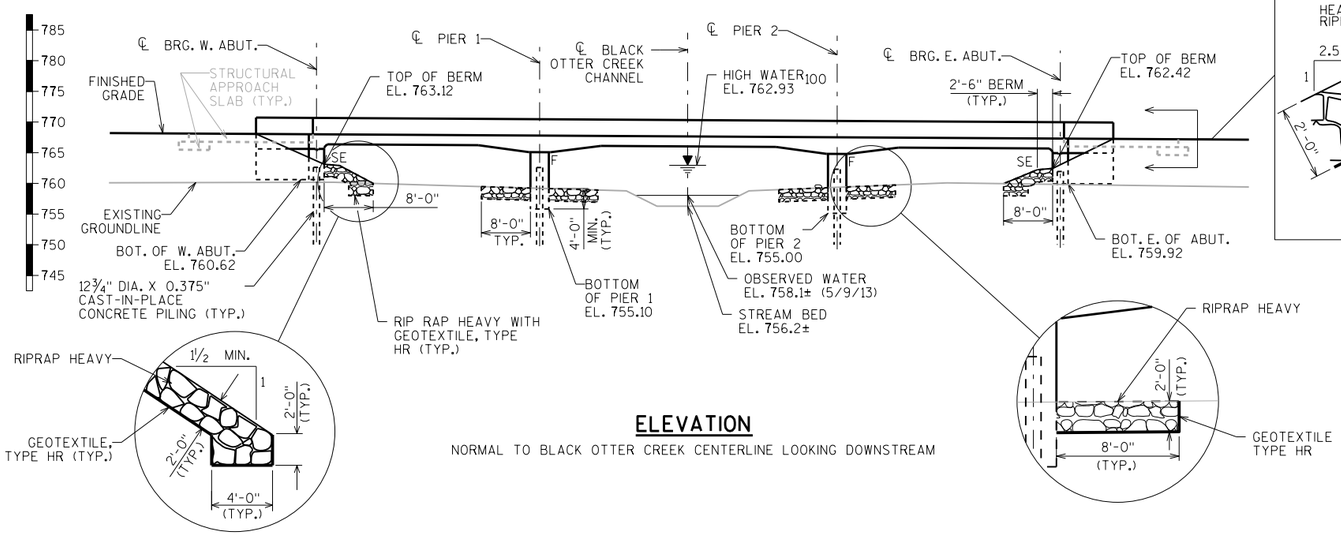
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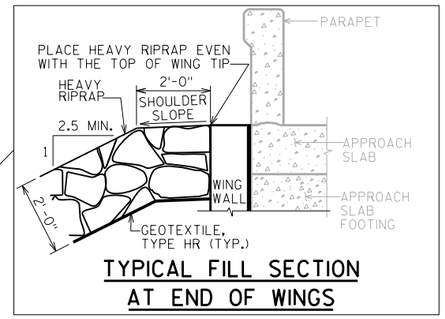
PLAN

3 SPAN - HAUNCHED CONCRETE SLAB



ELEVATION

NORMAL TO BLACK OTTER CREEK CENTERLINE LOOKING DOWNSTREAM



TYPICAL FILL SECTION AT END OF WINGS

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.11
OPERATING RATING FACTOR: RF = 1.45
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
SUPERSTRUCTURE — f'c = 4,000 P.S.I.
ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
GRADE 60 — fy = 60,000 P.S.I.
STAINLESS, GRADE 60 — fy = 60,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON 12¾" DIA. X 0.375" CAST-IN-PLACE CONCRETE PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 170 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 145 FEET LONG.

PIERS TO BE SUPPORTED ON 12¾" DIA. X 0.375" CAST-IN-PLACE CONCRETE PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 210 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 145 FEET LONG.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

S.T.H. 15
A.D.T. = 15,000 (2040)
R.D.S. = 60 M.P.H.

HYDRAULIC DATA

100 YEAR FREQUENCY
Q_{100} = 1390 C.F.S.
VEL. = 5.9 F.P.S.
HW_{100} = EL. 762.93
WATERWAY AREA = 235 SQ. FT.
DRAINAGE AREA = 16.5 SQ. MI.
SCOUR CRITICAL CODE = 5
ROADWAY OVERTOPPING = N/A

2 YEAR FREQUENCY
Q_2 = 340 C.F.S.
VEL. = 2.6 F.P.S.
$HW._2$ = EL. 761.04

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. SUBSURFACE EXPLORATION
4. WEST ABUTMENT
5. WEST ABUTMENT DETAILS
6. EAST ABUTMENT
7. EAST ABUTMENT DETAILS
8. PIER 1
9. PIER 2
10. SUPERSTRUCTURE CROSS SECTIONS 1
11. SUPERSTRUCTURE CROSS SECTIONS 2
12. SUPERSTRUCTURE DETAILS
13. SUPERSTRUCTURE PLAN & DATA
14. STRUCTURAL APPROACH SLAB
15. STRUCTURAL APPROACH SLAB DETAILS
16. SINGLE SLOPE PARAPET 42SS
17. SUPERSTRUCTURE BAR DETAILS

STRUCTURE DESIGN CONTACTS:
MAXWELL KULICK (608) 261-6108
DOMINIQUE BECHLE (608) 261-8205

STATE PROJECT NUMBER
1146-75-71

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES
ACCEPTED DMB 01/06/21
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-44-296

STH 15 WB OVER BLACK OTTER CREEK

COUNTY	TOWN
OUTAGAMIE	HORTONIA

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
MJK	JRS	JPH/MJH	MJK

GENERAL PLAN

SHEET 1 OF 17

388

I.D. 1146-75-00BL DATE: JAN. 2021

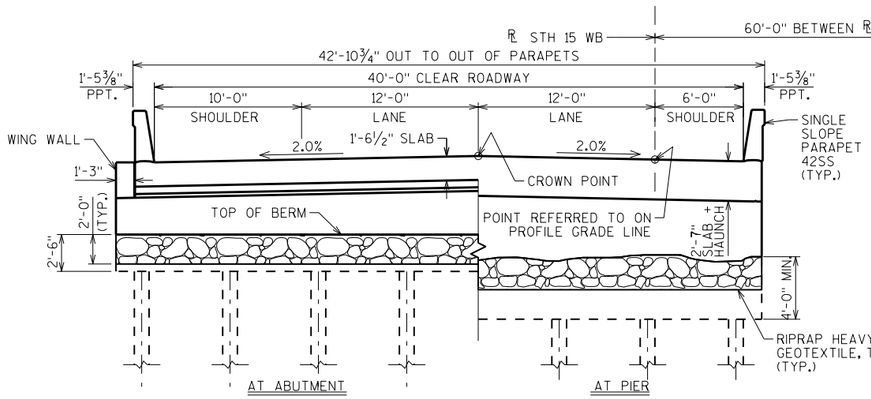
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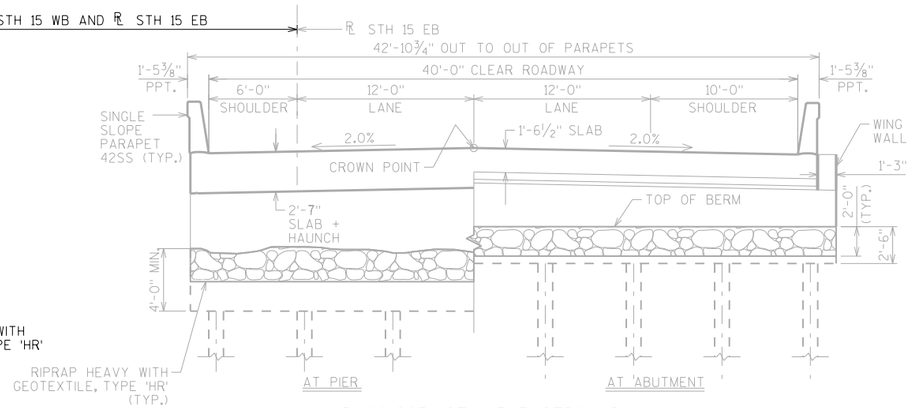
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STATE PROJECT NUMBER

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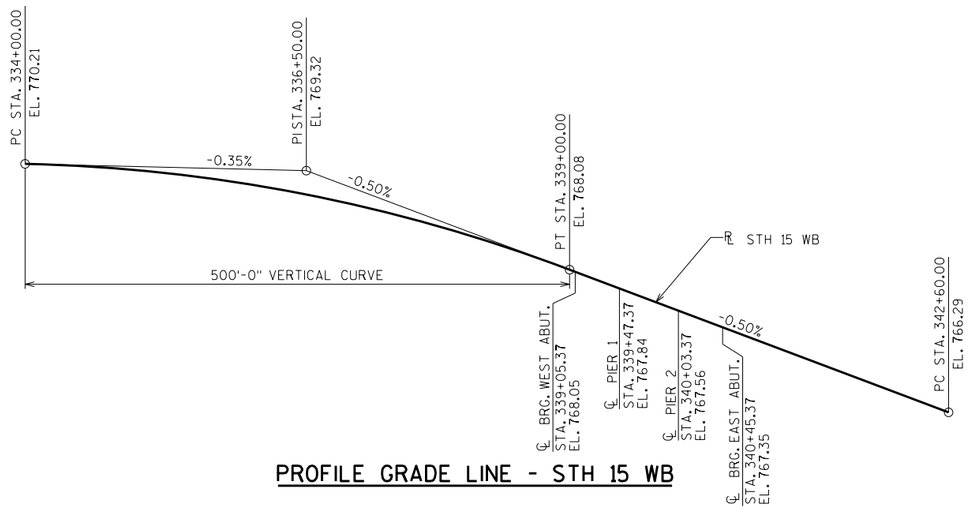


B-44-296 (STH 15 WESTBOUND)



B-44-295 (STH 15 EASTBOUND)

CROSS SECTION THRU ROADWAY LOOKING EAST (UPSTATION)



PROFILE GRADE LINE - STH 15 WB

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE, UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF HAUNCHED SLAB SURFACES AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS.

THE EXISTING STREAM BED SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE "HR" TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

AT ABUTMENTS AND PIER(S), CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

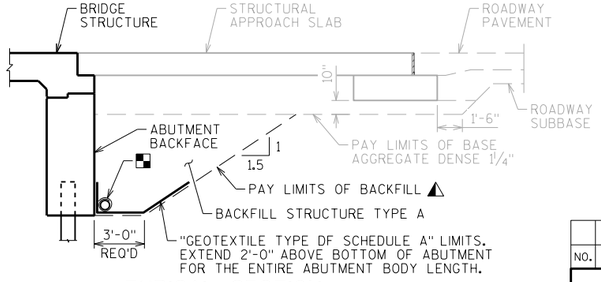
STRUCTURAL APPROACH SLABS TO BE CONSTRUCTED UNDER CONTRACT NUMBER 1146-75-77

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	WEST ABUT.	PIER 1	PIER 2	EAST ABUT.	TOTALS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-44-296	LS	———	———	———	———	———	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	———	86	———	———	86	172
502.0100	CONCRETE MASONRY BRIDGES	CY	429	43	44	44	43	603
502.3200	PROTECTIVE SURFACE TREATMENT	SY	655	———	———	———	———	655
502.3210	PIGMENTED SURFACE SEALER	SY	140	———	———	———	———	140
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	———	2,920	2,095	1,995	2,920	9,930
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	94,325	1,250	———	———	1,245	96,820
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	390	———	———	———	———	390
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	———	13	———	———	13	26
550.2126	PILING CIP CONCRETE 12 3/4 X 0.375-INCH	LF	———	1,160	1,450	1,450	1,160	5,220
606.0300	RIPRAP HEAVY	CY	———	113	73	73	113	372
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	———	105	———	———	105	210
645.0111	GEOTEXTILE TYPE DF SCHEDULE A"	SY	———	50	———	———	50	100
645.0120	GEOTEXTILE TYPE HR	SY		192	143	143	192	670
	NON-BID ITEMS							
	FILLER	SIZE	———	———	———	———	———	½", ¾", 1½"

ABUTMENT BACKFILL DIAGRAM FOR WINGS PARALLEL TO ROADWAY

L = OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)
V_{CY} = V_{CF} (EF)/27
V_{TON} = V_{CY} (2.0)



TYPICAL SECTION THRU ABUTMENT

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

▪ PIPE UNDERDRAIN WRAPPED (6 INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-296

DRAWN BY JPH/MJH | PLANS CK'D. MJK

CROSS SECTION & QUANTITIES

SHEET 2

389

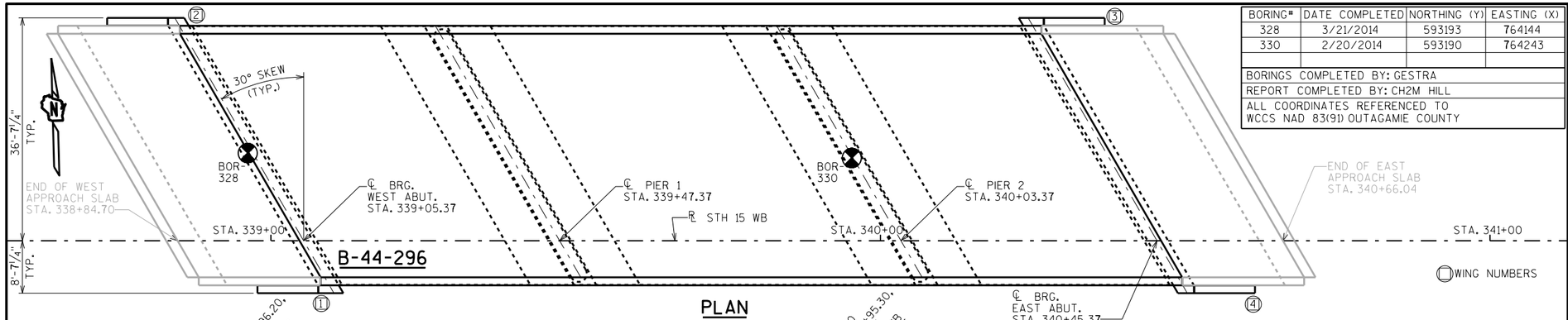
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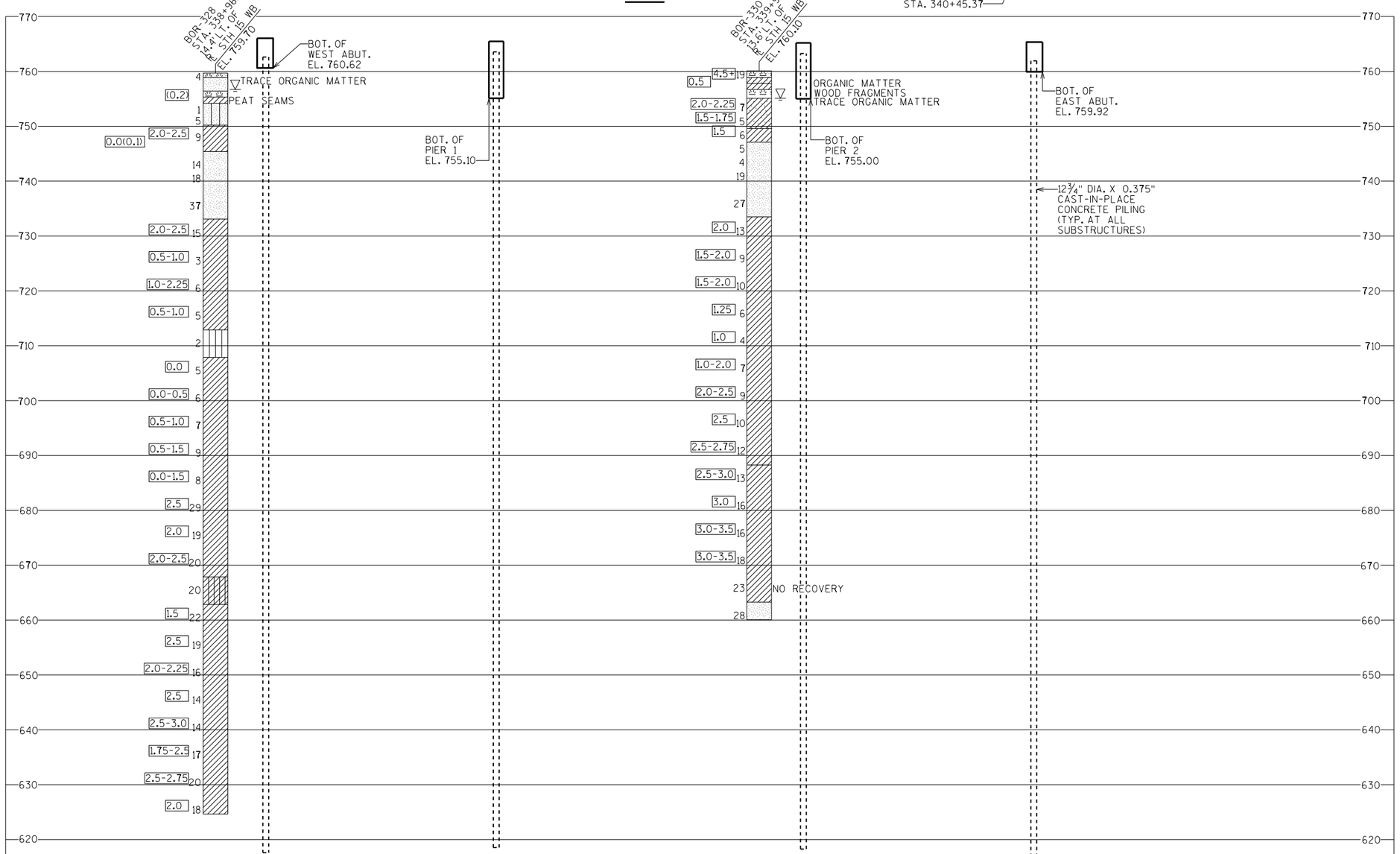
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BORING#	DATE COMPLETED	NORTHING (Y)	EASTING (X)
328	3/21/2014	593193	764144
330	2/20/2014	593190	764243

BORINGS COMPLETED BY: GESTRA
REPORT COMPLETED BY: CH2M HILL
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY



PLAN



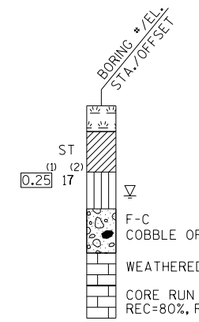
STATE PROJECT NUMBER

1146-75-71

MATERIAL SYMBOLS

ASPHALT, TOPSOIL, PEAT, CONCRETE, FILL, GRAVEL, SAND, CLAY, SILT, BOULDERS OR COBBLES, LIMESTONE, BEDROCK (UNKNOWN), SHALE, SANDSTONE, IGNEOUS/META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

▽ AT TIME OF DRILLING
▼ END OF DRILLING
▼ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-296

DRAWN BY JPH | PLANS CK'D. MJK

SUBSURFACE EXPLORATION

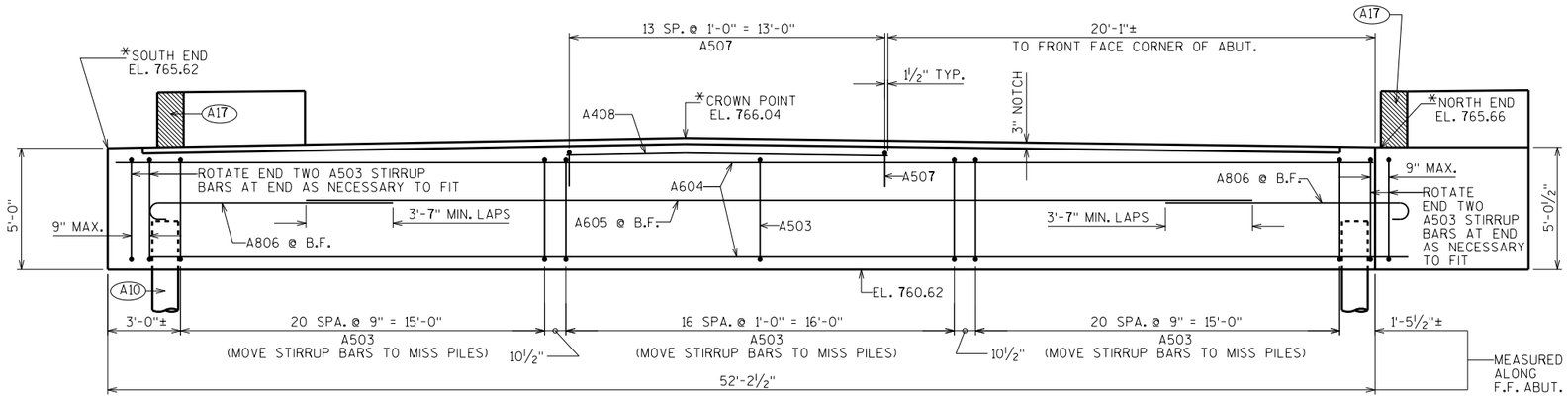
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STATE PROJECT NUMBER

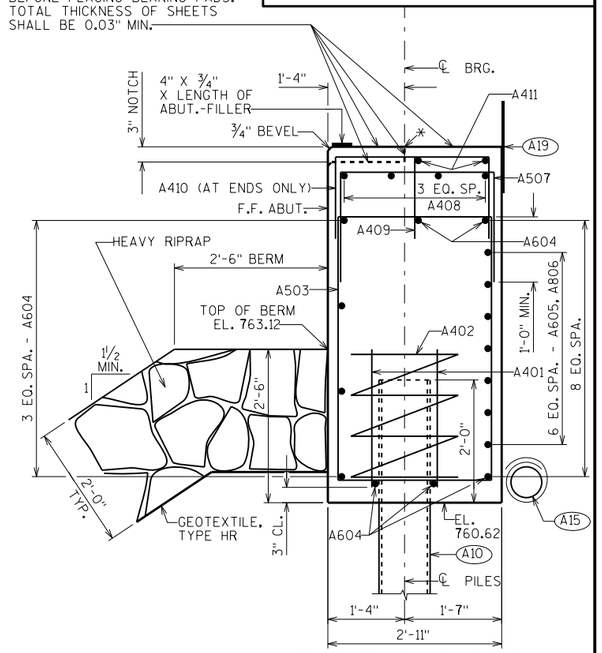
1146-75-71



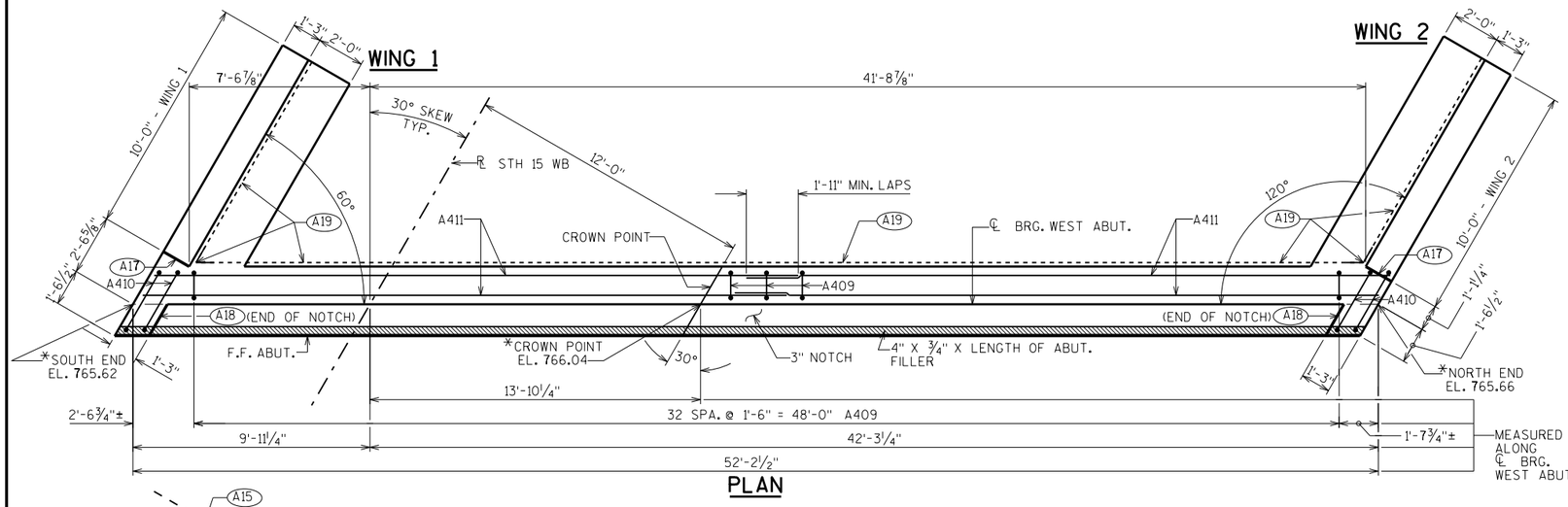
ELEVATION LOOKING WEST @ F.F. ABUT.

*TOP OF ABUT. ELEVATIONS ARE GIVEN HERE AT ℄ BRG. WEST ABUT.

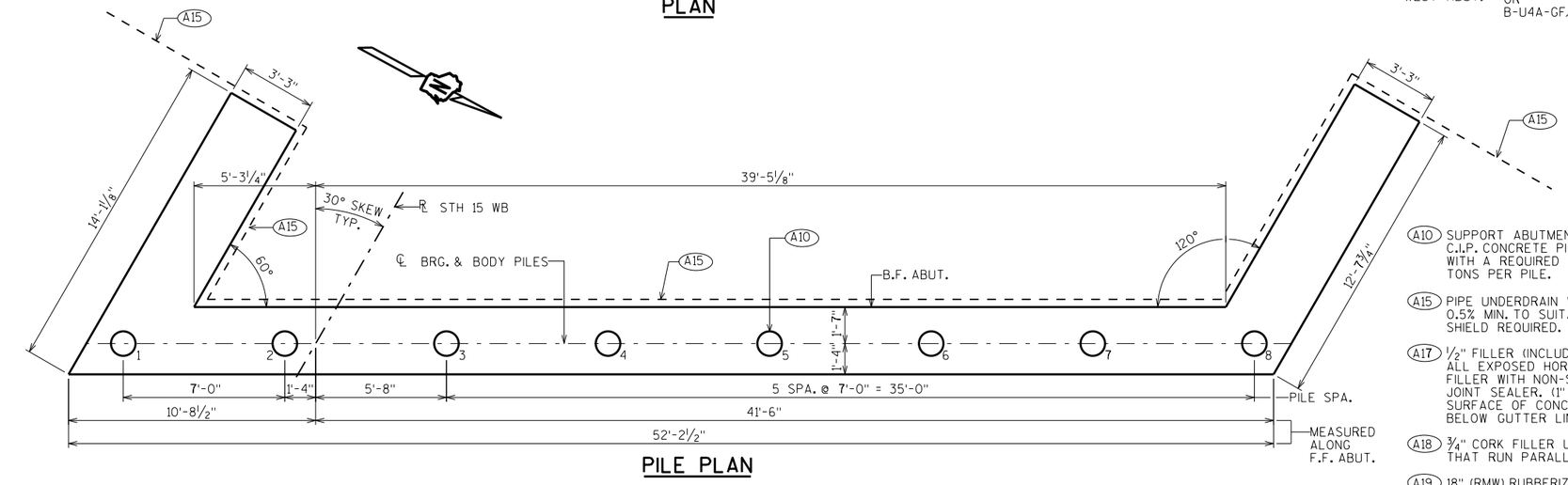
STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING PADS. TOTAL THICKNESS OF SHEETS SHALL BE 0.03" MIN.



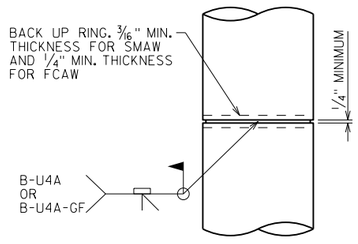
SECTION THRU BODY



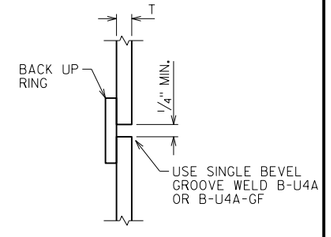
PLAN



PILE PLAN



CAST-IN-PLACE 'PIPE PILE'



C.I.P. PILE WELD DETAIL

PILE DETAILS

(A10) SUPPORT ABUTMENT ON 12¾" DIA. X 0.375" C.I.P. CONCRETE PILING, ESTIMATED 145'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 170 TONS PER PILE.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING, GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BEYOND GUTTER LINE AT INSIDE FACE.

(A18) ¾" CORK FILLER UP VERT. NOTCH FACES THAT RUN PARALLEL WITH "℄ STH 15 WB".

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-296

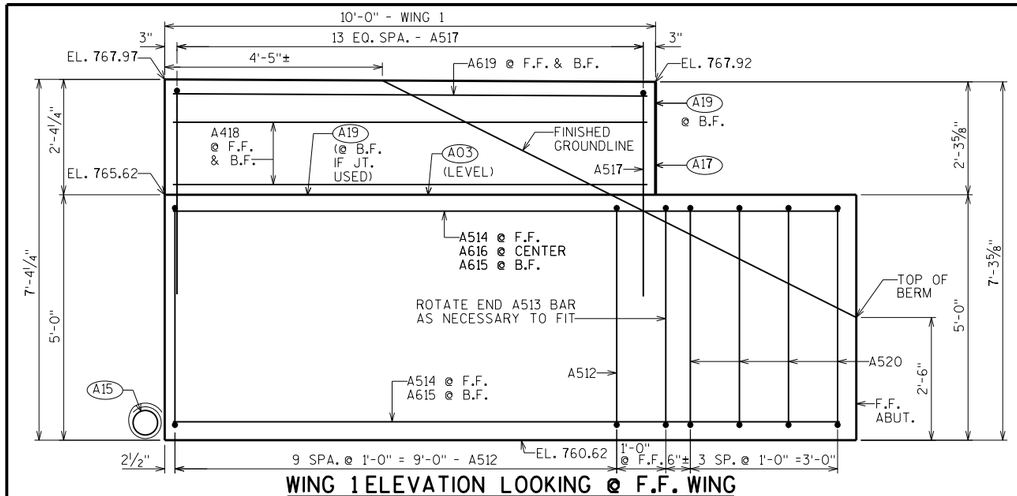
DRAWN BY JPH | PLANS CK'D. MJK

WEST ABUTMENT

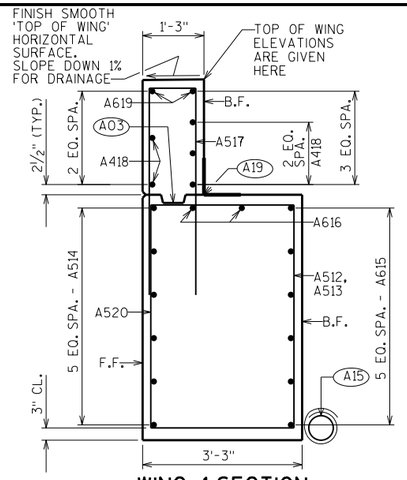
SHEET 4

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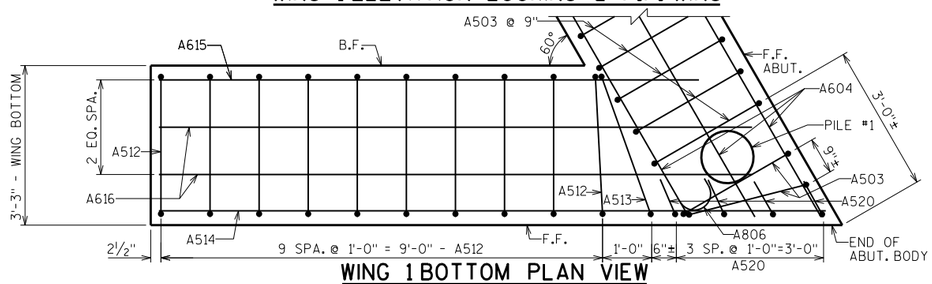
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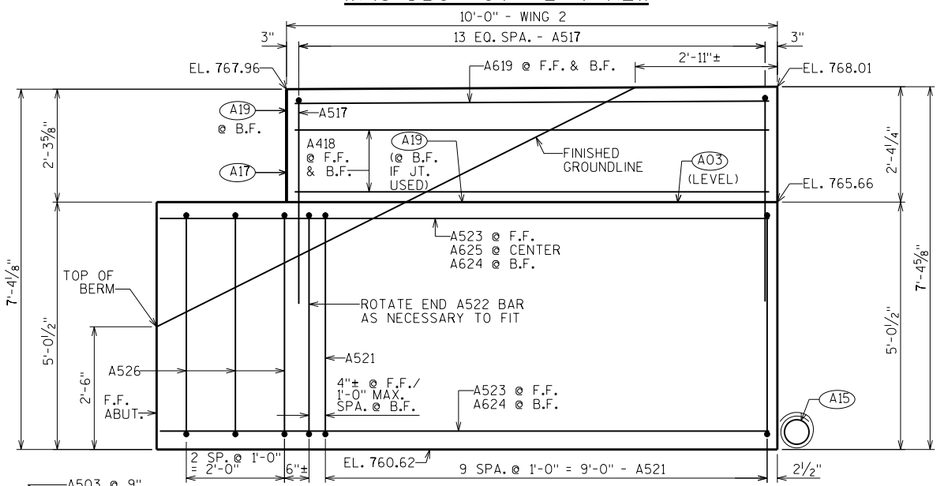
WING 1 ELEVATION LOOKING @ F.F. WING



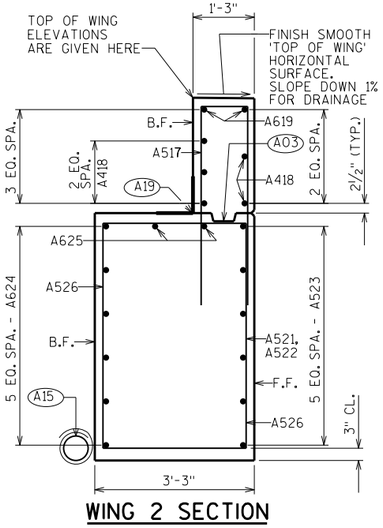
WING 1 SECTION



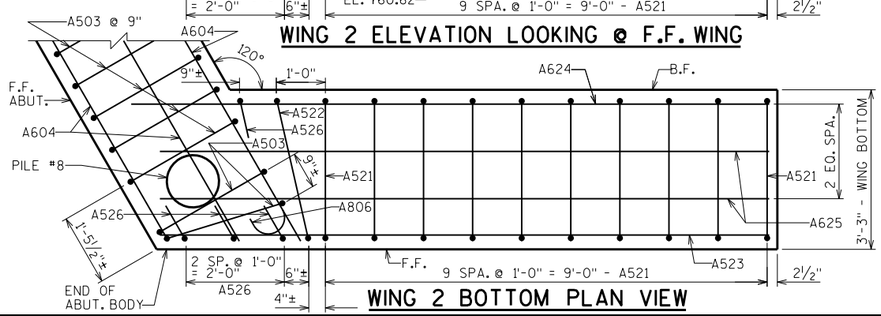
WING 1 BOTTOM PLAN VIEW



WING 2 ELEVATION LOOKING @ F.F. WING



WING 2 SECTION



WING 2 BOTTOM PLAN VIEW

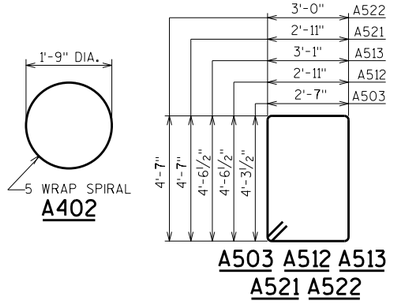
STATE PROJECT NUMBER

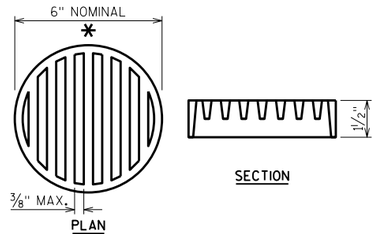
1146-75-71

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
A401		16	2'-3"		BODY-BOT.-2 PER BODY PILE-VERT.
A402		8	28'-0"	X	BODY-BOT.-SPIRAL-1 PER BODY PILE-VERT.
A503		63	14'-5"	X	BODY-STIRRUPS-VERT.
A604		9	51'-9"		BODY-HORIZONTAL-END TO END
A605		7	39'-0"		BODY-HORIZONTAL-B.F.-AT CENTER
A806		14	10'-11"	X	BODY-HORIZONTAL-B.F.-AT BOTH ENDS
A507		14	5'-2"	X	BODY-TOP-VERT.-UNDER NOTCH
A408		4	13'-3"		BODY-TOP-HORIZ.-UNDER NOTCH
A409		33	3'-9"	X	BODY-TOP-VERT.-ALONG NOTCH
A410		4	5'-6"	X	BODY-TOP-VERT.-AT ENDS ONLY
A411		4	27'-0"		BODY-TOP-HORIZ.-END TO END
A512	X	10	15'-7"	X	WING 1-BOT.-STIRRUP-VERT.
A513	X	1	15'-11"	X	WING 1-BOT.-STIRRUP-VERT.
A514	X	6	13'-7"		WING 1-BOT.-HORIZONTAL-F.F.
A615	X	6	11'-0"		WING 1-BOT.-HORIZONTAL-B.F.
A616	X	2	12'-1"		WING 1-BOT.-HORIZONTAL-CENTER
A517	X	28	9'-1"	X	WINGS 1&2-TOP-VERTICAL
A418	X	10	9'-8"		WINGS 1&2-TOP-HORIZONTAL-B.F. & F.F.
A619	X	4	9'-8"		WINGS 1&2-TOP-HORIZONTAL-B.F. & F.F.
A520	X	4	6'-0"	X	WING 1/BODY END-BOT.-VERT.-F.F.
A521	X	10	15'-8"	X	WING 2-BOT.-STIRRUP-VERT.
A522	X	1	15'-10"	X	WING 2-BOT.-STIRRUP-VERT.
A523	X	6	12'-5"		WING 2-BOT.-HORIZONTAL-F.F.
A624	X	6	13'-0"		WING 2-BOT.-HORIZONTAL-B.F.
A625	X	2	12'-5"		WING 2-BOT.-HORIZONTAL-CENTER
A526	X	4	6'-0"	X	WING 2/BODY END-BOT.-VERT.-F.F. & B.F.





RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2" × 6". (18" RMW @ B.F. & ¾" "V" GROOVE @ F.F. IF JOINT IS USED).

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) ½" FILLER (INCLUDED IN WING LENGTH); SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING, GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-296

DRAWN BY JPH | PLANS CK'D. MJK

WEST ABUTMENT DETAILS

SHEET 5

392

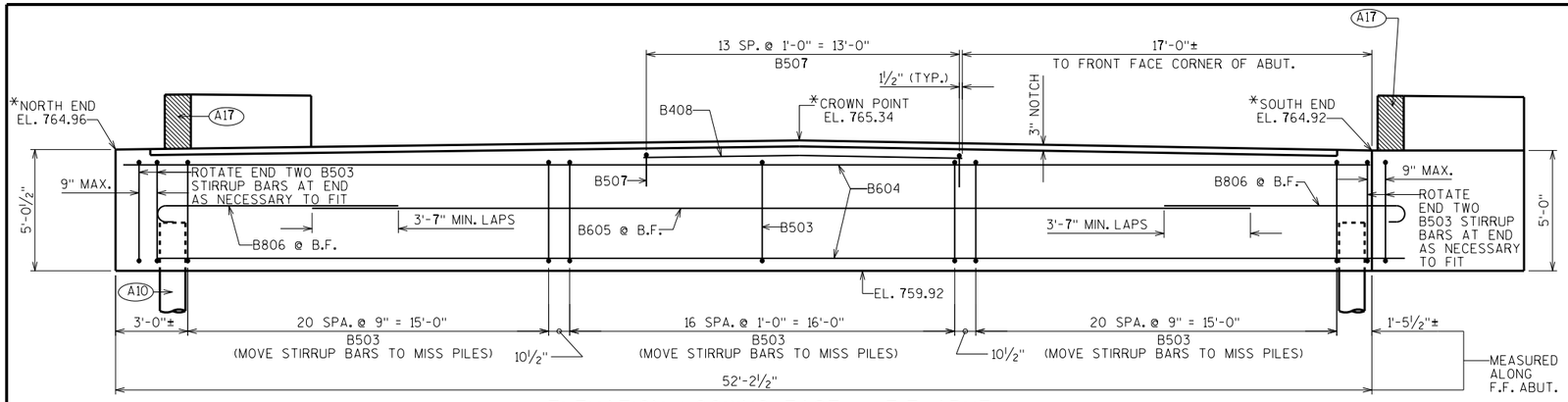
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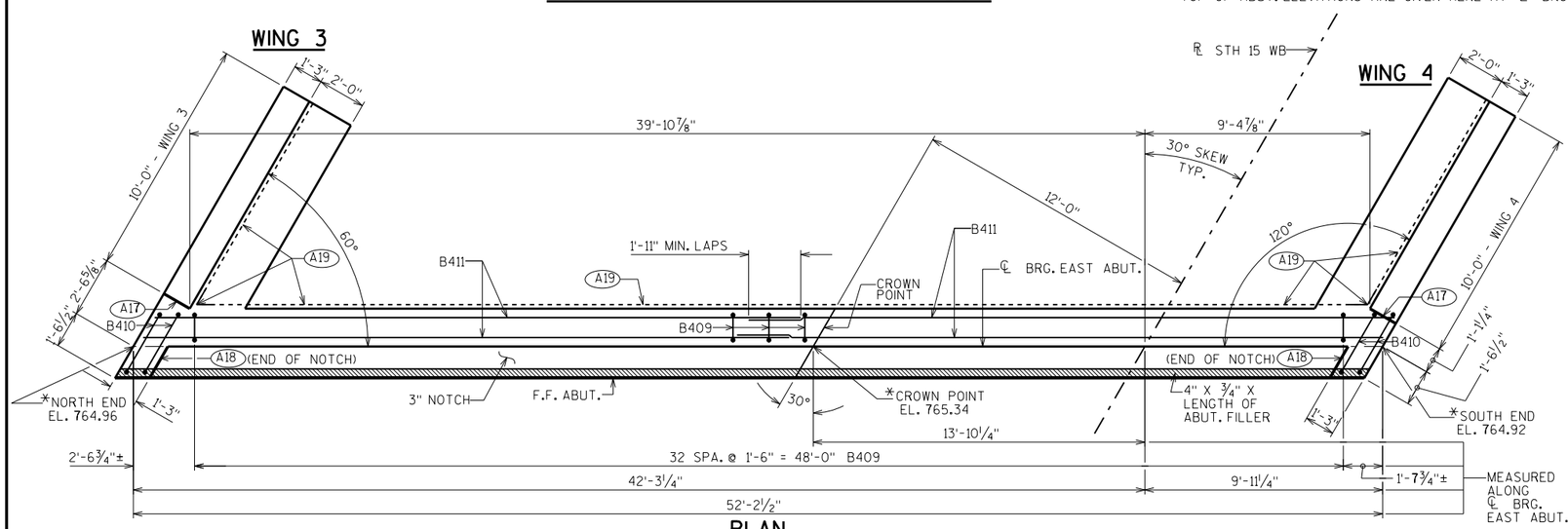
STATE PROJECT NUMBER

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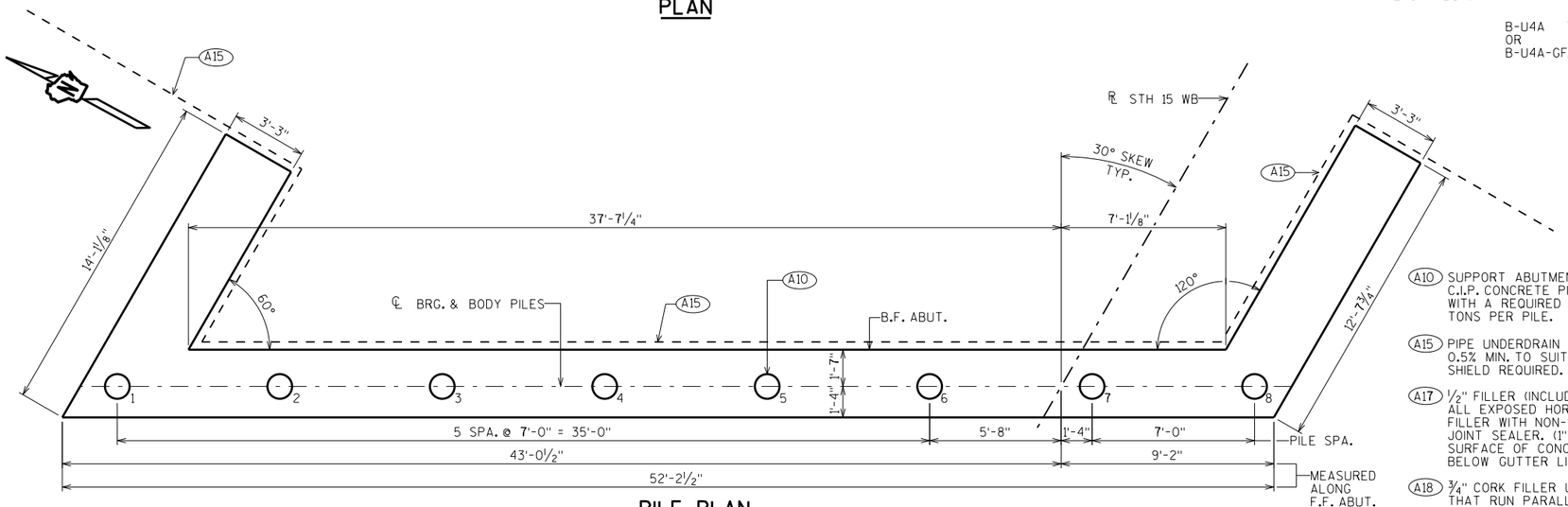


ELEVATION LOOKING EAST @ F.F. ABUT.

*TOP OF ABUT. ELEVATIONS ARE GIVEN HERE AT ℄ BRG. EAST ABUT.

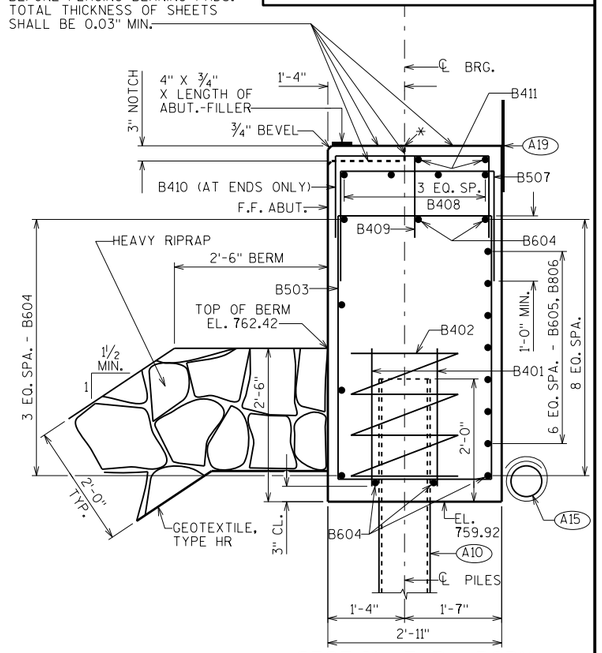


PLAN

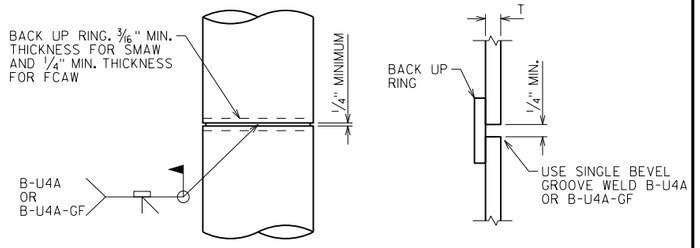


PILE PLAN

STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING PADS. TOTAL THICKNESS OF SHEETS SHALL BE 0.03" MIN.



SECTION THRU BODY



CAST-IN-PLACE 'PIPE PILE'

C.I.P. PILE WELD DETAIL

PILE DETAILS

A10 SUPPORT ABUTMENT ON 12¾" DIA. X 0.375" C.I.P. CONCRETE PILING, ESTIMATED 145'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 170 TONS PER PILE.

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STRUCTURE B-44-296

DRAWN BY JPH | PLANS CK'D. MJK

EAST ABUTMENT

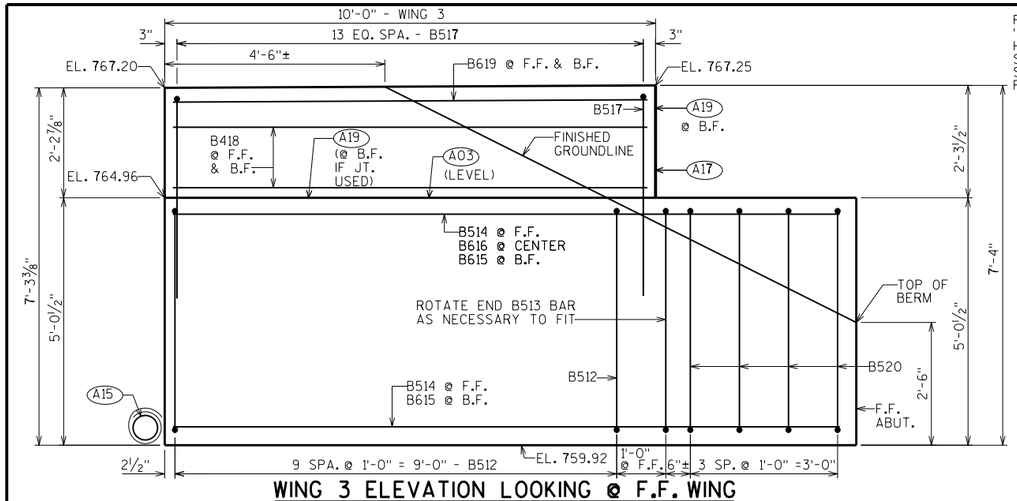
SHEET 6

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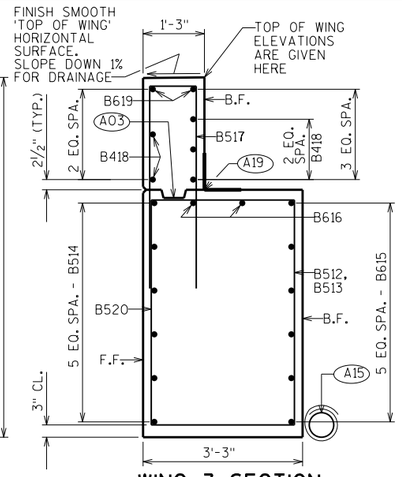
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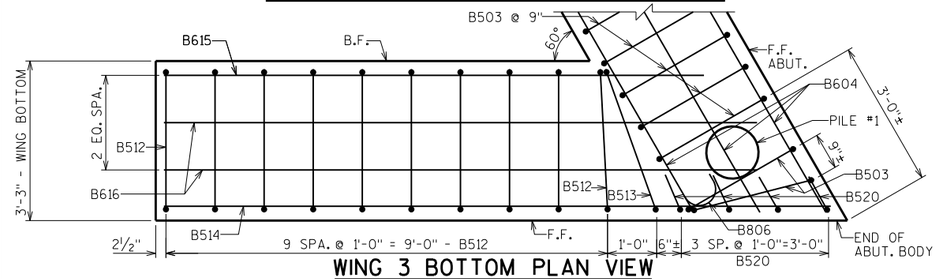
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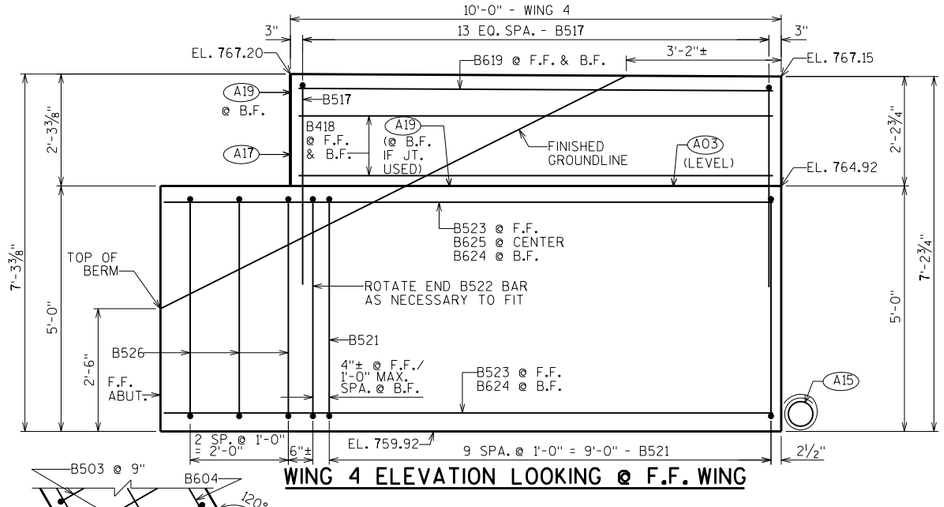
WING 3 ELEVATION LOOKING @ F.F. WING



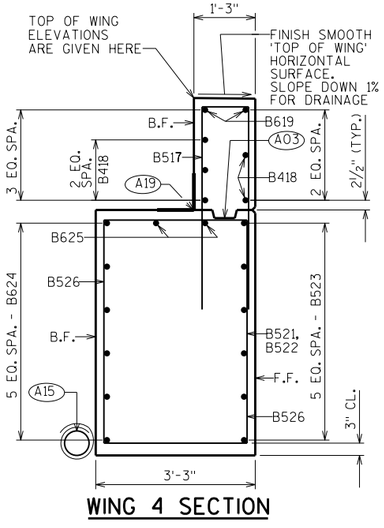
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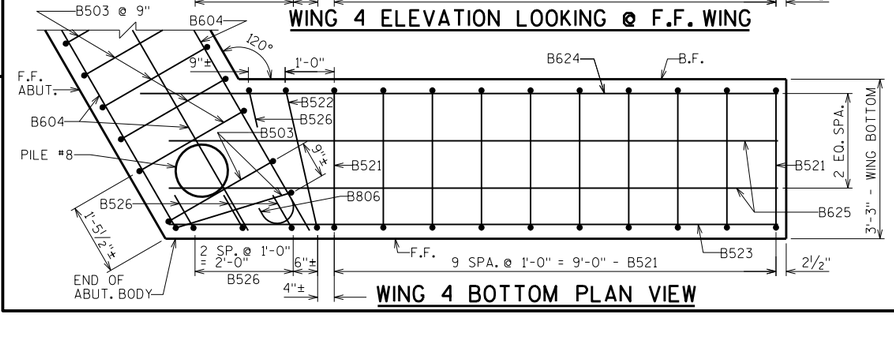
WING 3 BOTTOM PLAN VIEW



WING 4 ELEVATION LOOKING @ F.F. WING



WING 4 SECTION



WING 4 BOTTOM PLAN VIEW

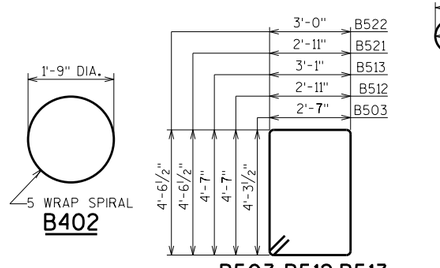
STATE PROJECT NUMBER

1146-75-71

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
B401		16	2'-3"		BODY-BOT.-2 PER BODY PILE-VERT.
B402		8	28'-0"	X	BODY-BOT.-SPIRAL-1 PER BODY PILE-VERT.
B503		63	14'-5"	X	BODY-STIRRUPS-VERT.
B604		9	51'-9"		BODY-HORIZONTAL-END TO END
B605		7	39'-0"		BODY-HORIZONTAL-B.F.-AT CENTER
B806		14	10'-11"	X	BODY-HORIZONTAL-B.F.-AT BOTH ENDS
B507		14	5'-2"	X	BODY-TOP-VERT.-UNDER NOTCH
B408		4	13'-3"		BODY-TOP-HORIZ.-UNDER NOTCH
B409		33	3'-9"	X	BODY-TOP-VERT.-ALONG NOTCH
B410		4	5'-6"	X	BODY-TOP-VERT.-AT ENDS ONLY
B411		4	27'-0"		BODY-TOP-HORIZ.-END TO END
B512	X	10	15'-8"	X	WING 3-BOT.-STIRRUP-VERT.
B513	X	1	16'-0"	X	WING 3-BOT.-STIRRUP-VERT.
B514	X	6	13'-7"		WING 3-BOT.-HORIZONTAL-F.F.
B615	X	6	11'-0"		WING 3-BOT.-HORIZONTAL-B.F.
B616	X	2	12'-1"		WING 3-BOT.-HORIZONTAL-CENTER
B517	X	28	8'-11"	X	WINGS 3&4-TOP-VERTICAL
B418	X	10	9'-8"		WINGS 3&4-TOP-HORIZONTAL-B.F. & F.F.
B619	X	4	9'-8"		WINGS 3&4-TOP-HORIZONTAL-B.F. & F.F.
B520	X	4	6'-0"	X	WING 3/BODY END-BOT.-VERT.-F.F.
B521	X	10	15'-7"	X	WING 4-BOT.-STIRRUP-VERT.
B522	X	1	15'-9"	X	WING 4-BOT.-STIRRUP-VERT.
B523	X	6	12'-5"		WING 4-BOT.-HORIZONTAL-F.F.
B624	X	6	13'-0"		WING 4-BOT.-HORIZONTAL-B.F.
B625	X	2	12'-5"		WING 4-BOT.-HORIZONTAL-CENTER
B526	X	4	6'-0"	X	WING 4/BODY END-BOT.-VERT.-F.F. & B.F.

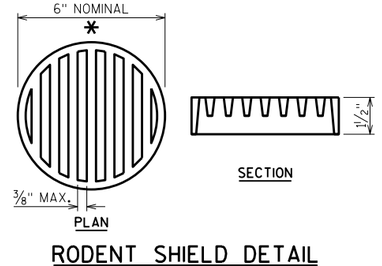


(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2" × 6". (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING, GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

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STRUCTURES DESIGN SECTION

STRUCTURE B-44-296

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EAST ABUTMENT DETAILS

SHEET 7

394

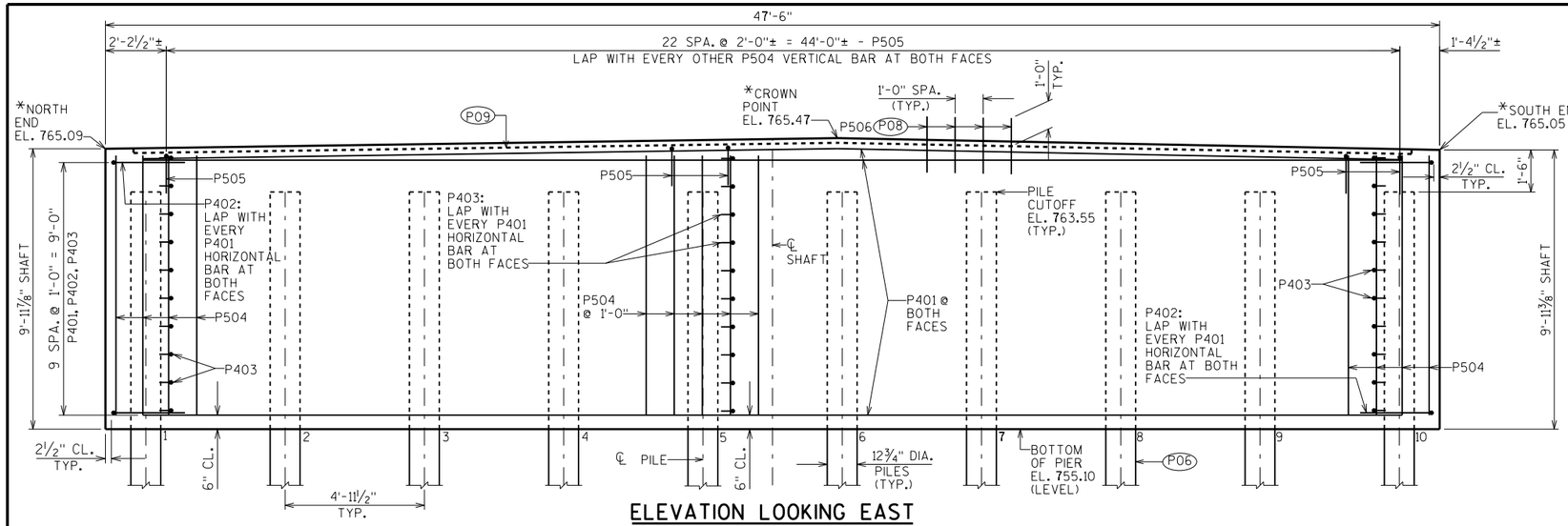
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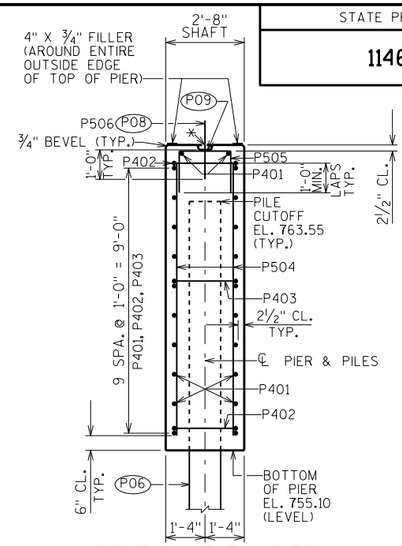
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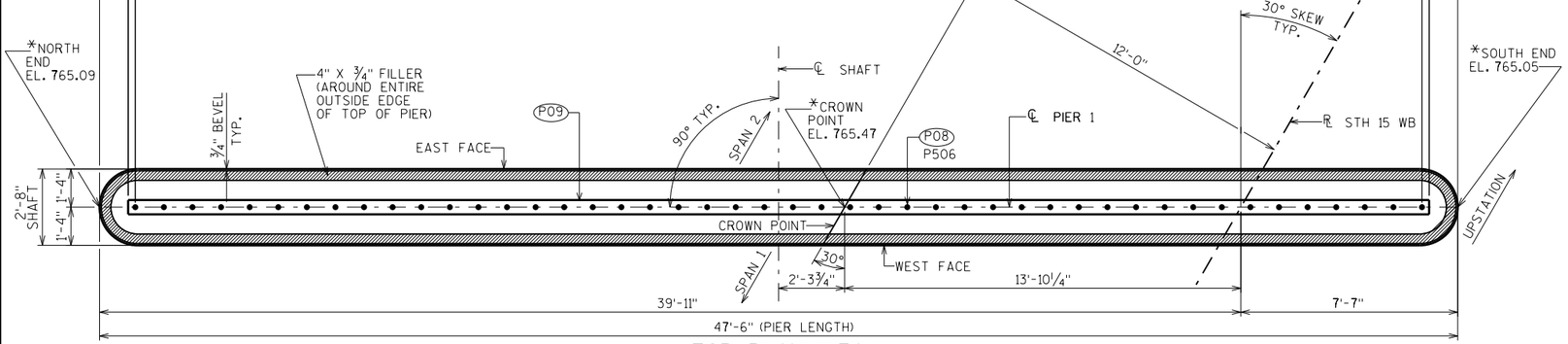


ELEVATION LOOKING EAST

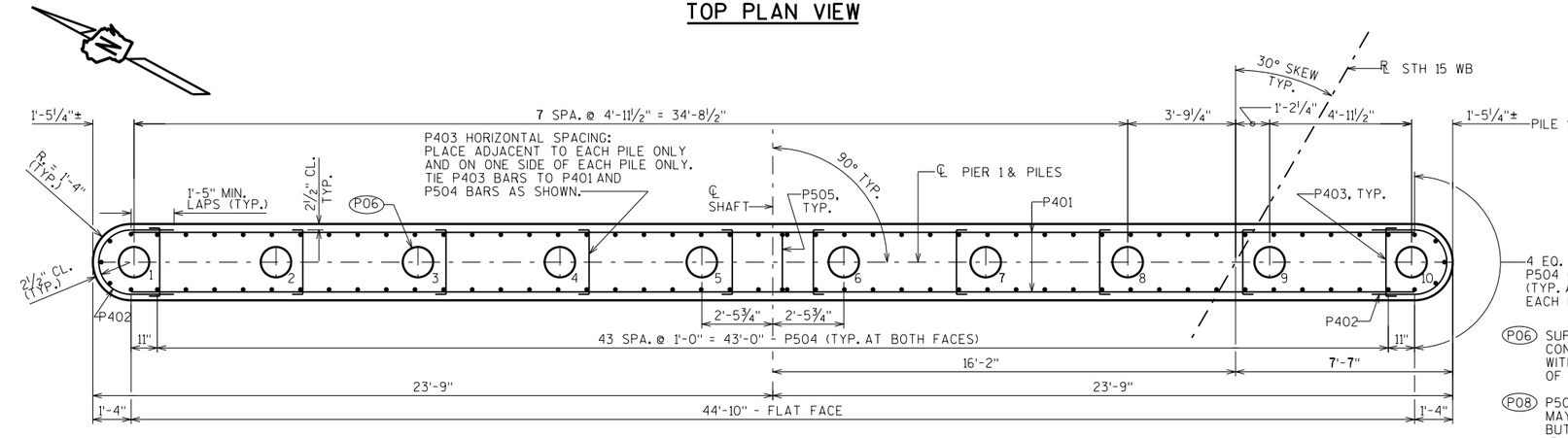


SECTION THRU PIER

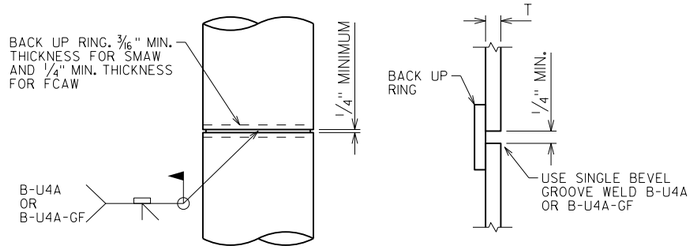
*TOP OF PIER SHAFT ELEVATIONS ARE GIVEN HERE AT THE ℄ PIER 1



TOP PLAN VIEW



PILE & REINFORCEMENT PLAN



CAST-IN-PLACE 'PIPE PILE'

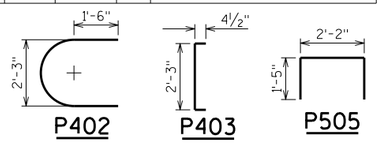
C.I.P. PILE WELD DETAIL

PILE DETAILS

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
P401		22	44'-10"		SHAFT-HORIZ.-AT BOTH FACES
P402		20	6'-6"	X	SHAFT-HORIZ.-AT BOTH ENDS
P403		100	2'-10"	X	SHAFT-HORIZ.-AT EACH PILE
P504		98	9'-3"		SHAFT-VERT.-AT BOTH FACES
P505		23	4'-9"	X	SHAFT-VERT.-TOP
P506		46	2'-0"		SHAFT-VERT.-TOP-CENTER



P06 SUPPORT PIER ON 12¾" DIA. X 0.375" C.I.P. CONCRETE PILING, ESTIMATED 145'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 210 TONS PER PILE.

P08 P506 BARS @ 1'-0" SPA. AT TOP OF PIER CAP. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

P09 KEYED CONSTRUCTION JOINT-FORMED BY BEVELED 2" x 6" AT TOP OF PIER CAP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-296

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PIER 1

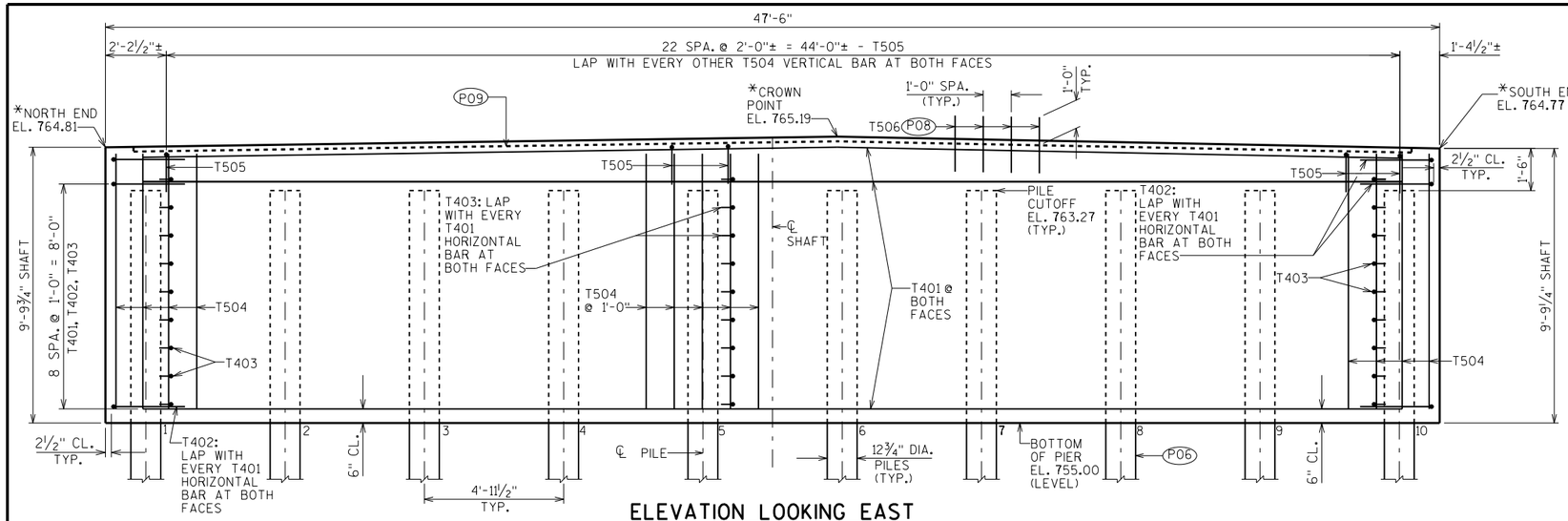
SHEET 8

395

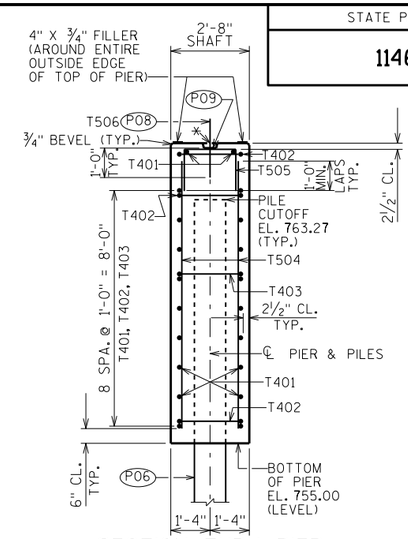
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STATE PROJECT NUMBER

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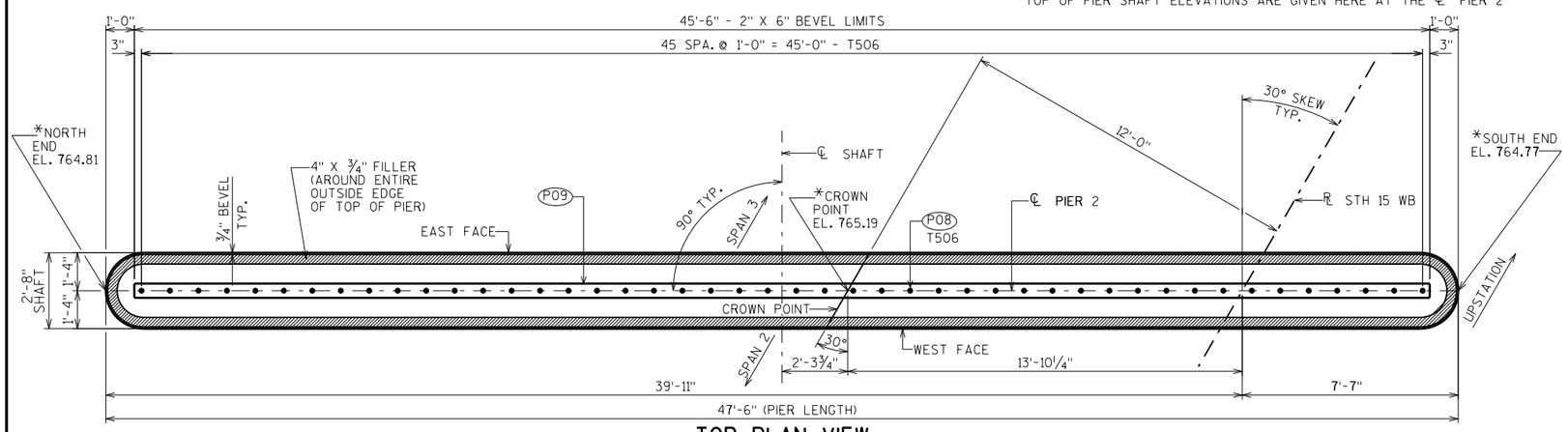


ELEVATION LOOKING EAST

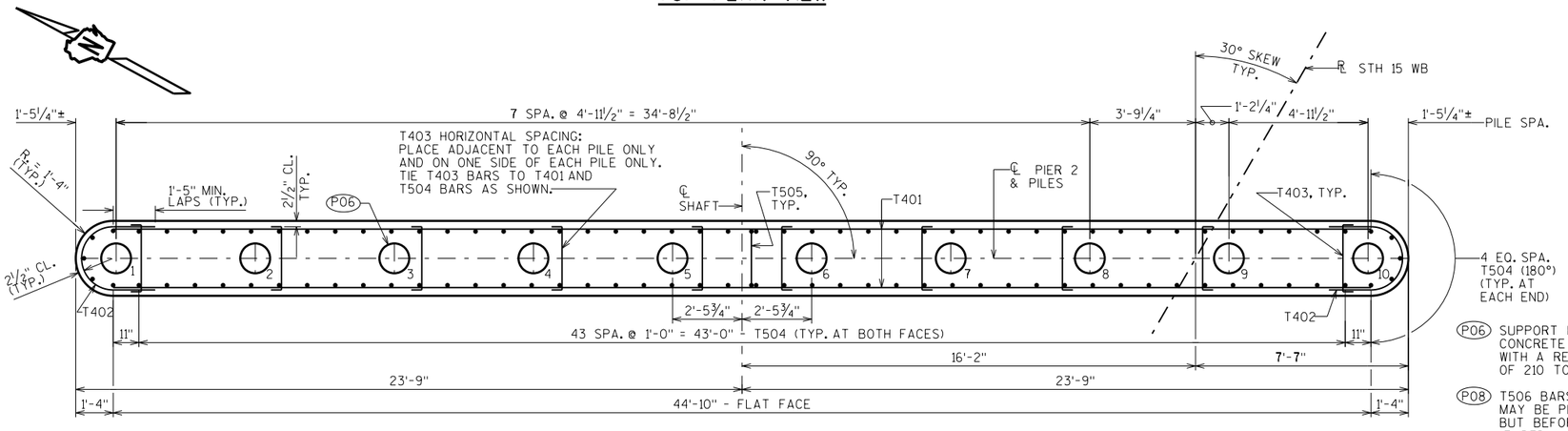


SECTION THRU PIER

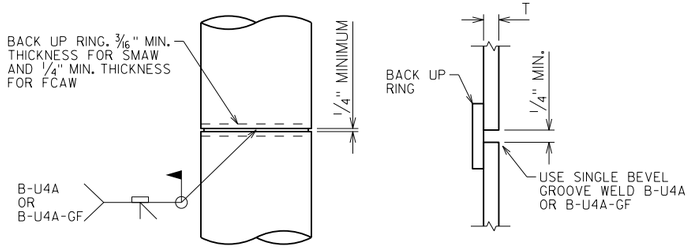
*TOP OF PIER SHAFT ELEVATIONS ARE GIVEN HERE AT THE ℄ PIER 2



TOP PLAN VIEW



PILE & REINFORCEMENT PLAN



CAST-IN-PLACE 'PIPE PILE'

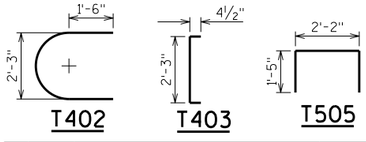
C.I.P. PILE WELD DETAIL

PILE DETAILS

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
T401		20	44'-10"		SHAFT-HORIZ.-AT BOTH FACES
T402		20	6'-6"	X	SHAFT-HORIZ.-AT BOTH ENDS
T403		90	2'-10"	X	SHAFT-HORIZ.-AT EACH PILE
T504		98	9'-1"		SHAFT-VERT.-AT BOTH FACES
T505		23	4'-9"	X	SHAFT-VERT.-TOP
T506		46	2'-0"		SHAFT-VERT.-TOP-CENTER



P06 SUPPORT PIER ON 12¾" DIA. X 0.375" C.I.P. CONCRETE PILING, ESTIMATED 145'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 210 TONS PER PILE.

P08 T506 BARS @ 1'-0" SPA. AT TOP OF PIER CAP. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

P09 KEYED CONSTRUCTION JOINT-FORMED BY BEVELED 2" x 6" AT TOP OF PIER CAP.

NO.	DATE	REVISION	BY

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STRUCTURES DESIGN SECTION

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PIER 2

SHEET 9

396

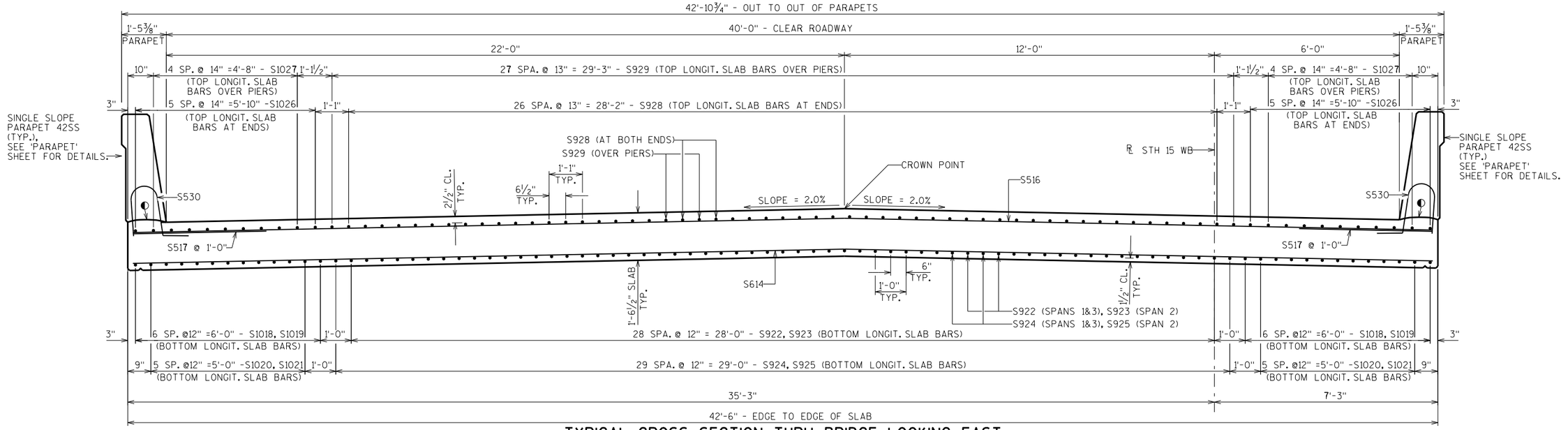
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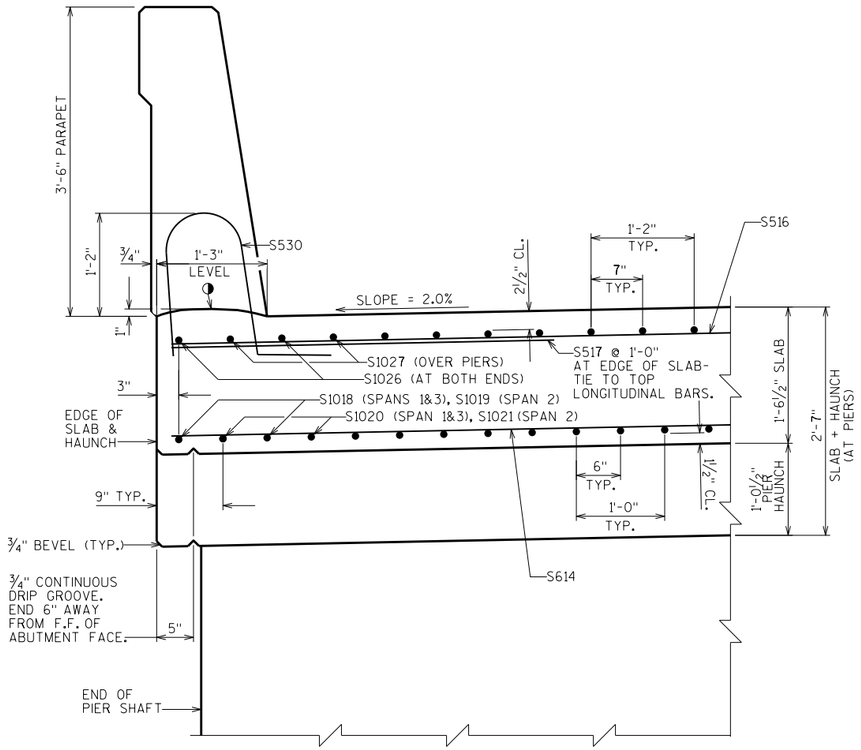
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TYPICAL CROSS SECTION THRU BRIDGE LOOKING EAST

(SHOWING IN-SPAN REINFORCEMENT)



EDGE OF SLAB DETAIL

(TYP. @ BOTH SIDES)

NOTES:

FOR THE SECTIONS THRU THE ABUTMENT DIAPHRAGMS SEE "SUPERSTRUCTURE DETAILS" SHEET.

SEE "SUPERSTRUCTURE DETAILS" SHEET FOR ABUTMENT DIAPHRAGM CORNER DETAILS.

FOR THE SECTION THRU THE PIER DIAPHRAGM SEE "SUPERSTRUCTURE DETAILS" SHEET.

◐ HORIZ. CONST. JOINT: STRIKE OFF AND LEAVE ROUGH AS SHOWN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE B-44-296

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SUPERSTRUCTURE CROSS SECTIONS 1

SHEET 10

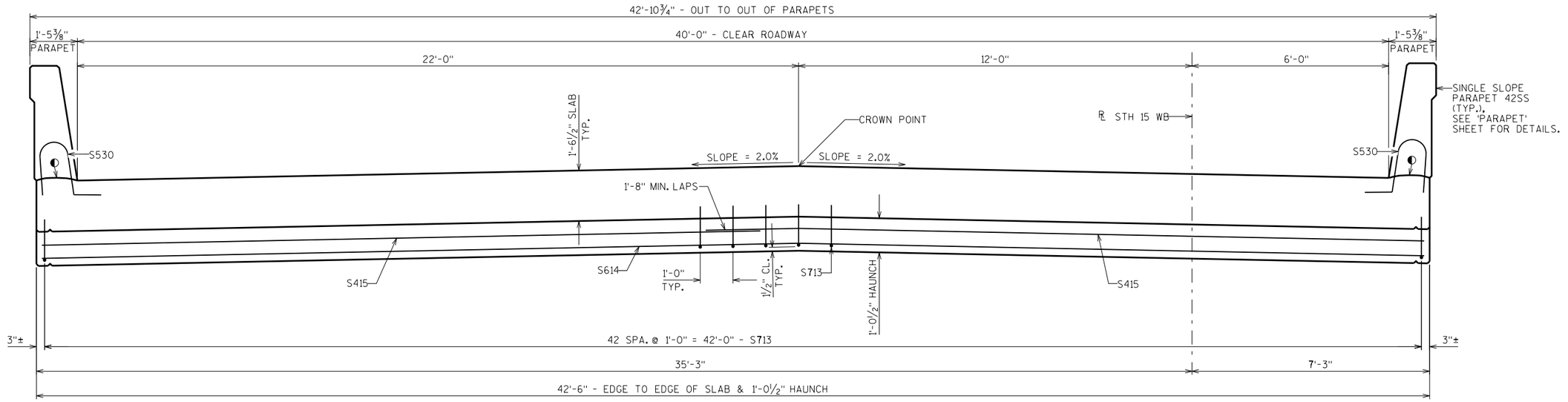
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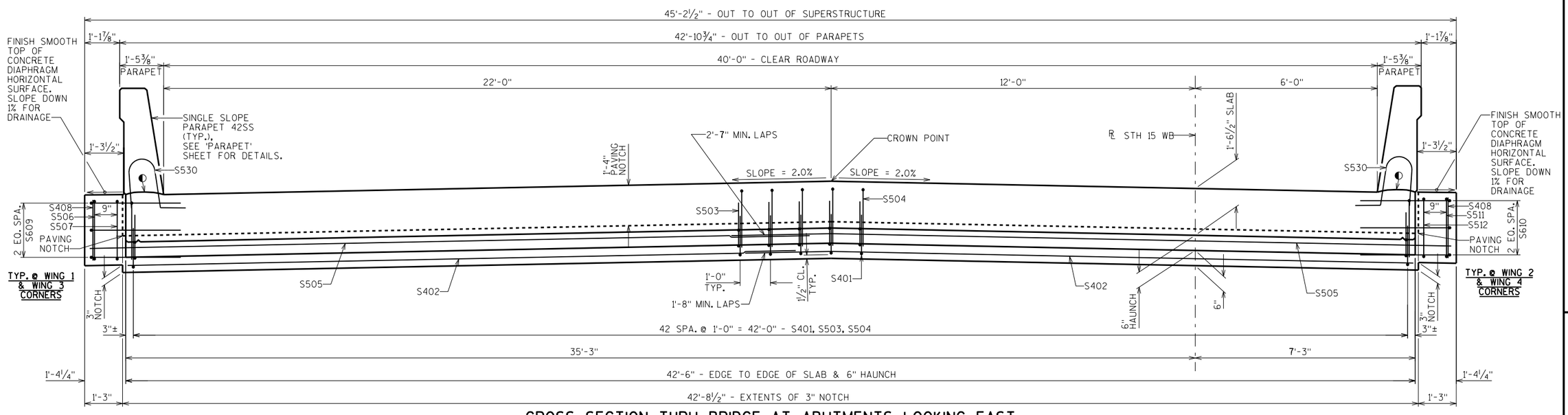
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CROSS SECTION THRU BRIDGE AT PIERS LOOKING EAST

(SLAB REINFORCEMENT NOT SHOWN)



CROSS SECTION THRU BRIDGE AT ABUTMENTS LOOKING EAST

(EAST ABUTMENT SHOWN, WEST ABUTMENT SIMILAR - SLAB REINFORCEMENT NOT SHOWN)

NOTES:

FOR THE SECTIONS THRU THE ABUTMENT DIAPHRAGMS SEE "SUPERSTRUCTURE DETAILS" SHEET.

SEE "SUPERSTRUCTURE DETAILS" SHEET FOR ABUTMENT DIAPHRAGM CORNER DETAILS.

FOR THE SECTION THRU THE PIER DIAPHRAGM SEE "SUPERSTRUCTURE DETAILS" SHEET.

◐HORIZ. CONST. JOINT: STRIKE OFF AND LEAVE ROUGH AS SHOWN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-296

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SUPERSTRUCTURE CROSS SECTIONS 2

SHEET 11

398

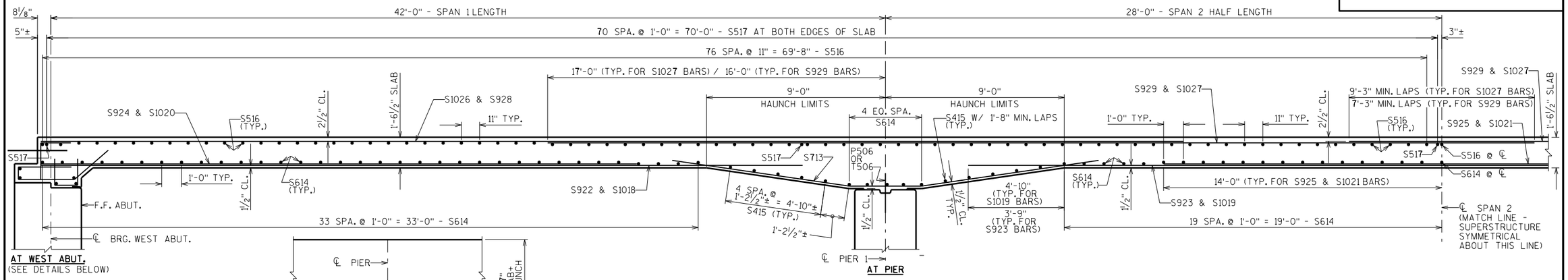
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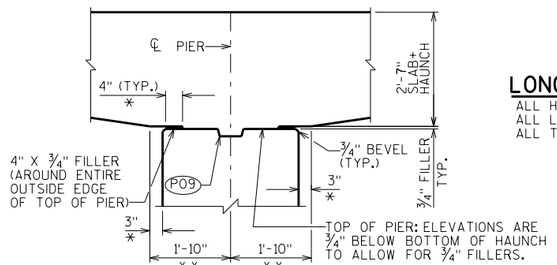
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1146-75-71

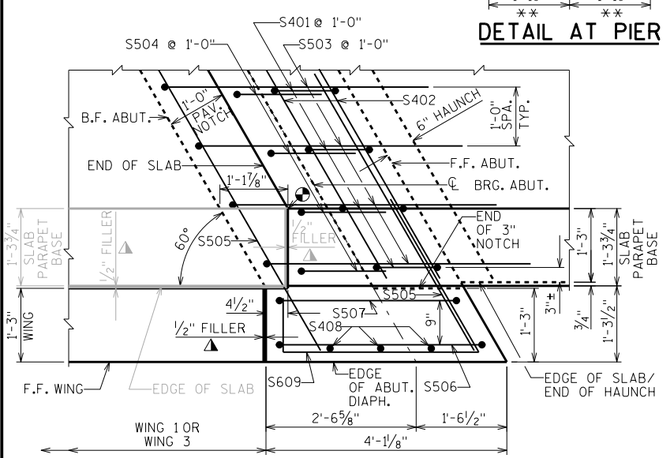


LONGITUDINAL SECTION THRU BRIDGE LOOKING NORTH

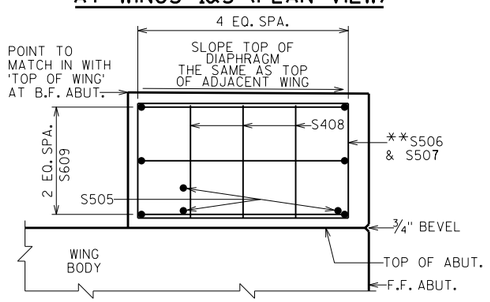
ALL HORIZONTAL DIMENSIONS ARE TAKEN PARALLEL TO "℄ STH 15 WB".
ALL LONGITUDINAL BARS ARE PLACED PARALLEL TO "℄ STH 15 WB".
ALL TRANSVERSE BARS ARE PLACED PARALLEL TO ℄ SUBSTRUCTURES.



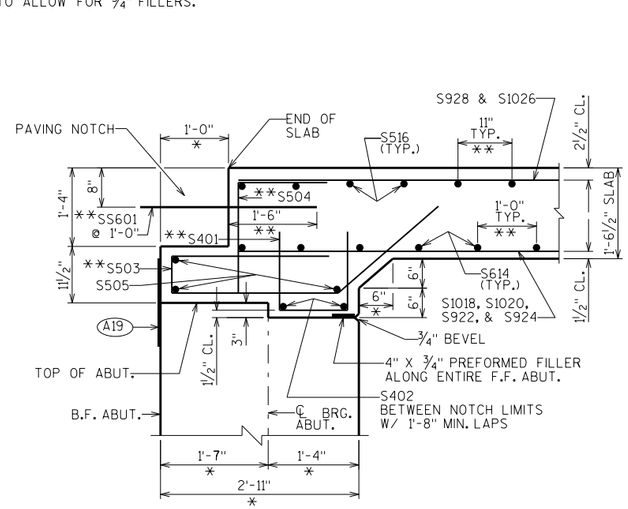
DETAIL AT PIER



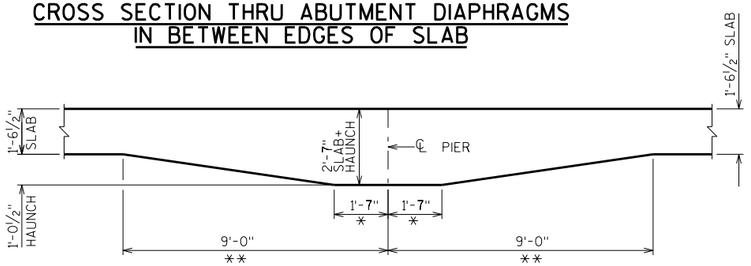
TYPICAL CORNER DETAIL AT WINGS 1&3 (PLAN VIEW)



TYPICAL CORNER DETAIL AT WINGS 1&3 (ELEVATION VIEW LOOKING AT F.F. WING)

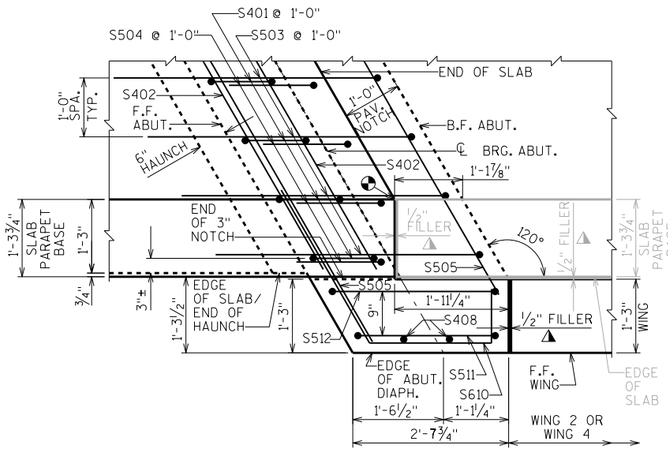


CROSS SECTION THRU ABUTMENT DIAPHRAGMS IN BETWEEN EDGES OF SLAB

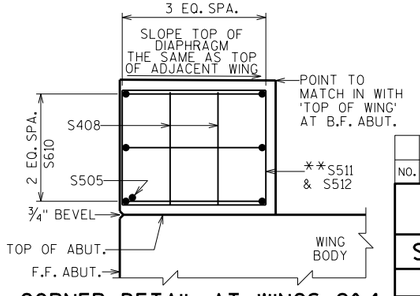


PART LONGITUDINAL SLAB & HAUNCH SECTION AT PIERS LOOKING AT OUTSIDE FACE

(STEEL REINFORCEMENT NOT SHOWN)



TYPICAL CORNER DETAIL AT WINGS 2&4 (PLAN VIEW)



TYPICAL CORNER DETAIL AT WINGS 2&4 (ELEVATION VIEW LOOKING AT F.F. WING)

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(P09) KEYED CONSTRUCTION JOINT-FORMED BY BEVELED 2" x 6".

*DIMENSION IS TAKEN PERPENDICULAR TO ℄ SUBSTRUCTURES.

**DIMENSION IS TAKEN PARALLEL TO "℄ STH 15 WB". BARS PLACED PARALLEL TO "℄ STH 15 WB".

◔ SQUARE OFF ENDS OF PAVING NOTCH AT INSIDE FACE OF PARAPET

⚠ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING, GRAY AND NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

GENERAL NOTES

SEE 'BAR DETAILS' SHEET FOR THE 'BILL OF BARS' AND BAR DETAILS.

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

PARAPETS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED, EXCEPT FOR STAGED CONSTRUCTION.

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE ℄ OF ABUTMENTS, THE ℄ OF PIERS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES, ℄ STH 15 WB AND CROWN POINT.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-296

DRAWN BY JPH | PLANS CK'D. MJK

SUPERSTRUCTURE DETAILS

SHEET 12

399

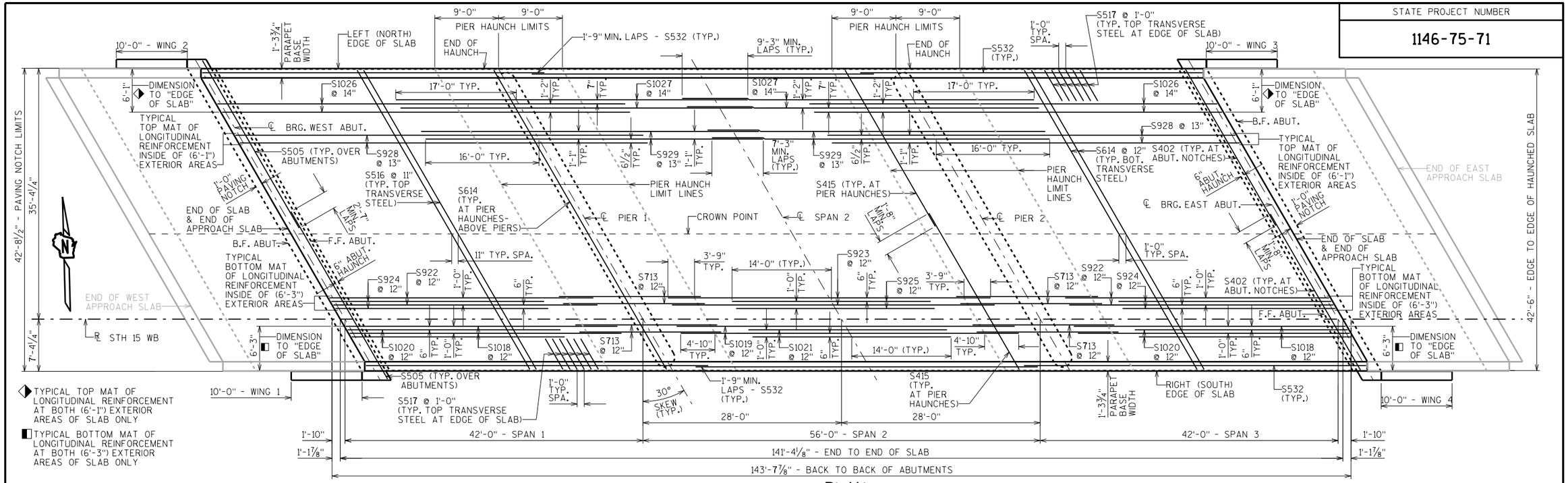
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STATE PROJECT NUMBER

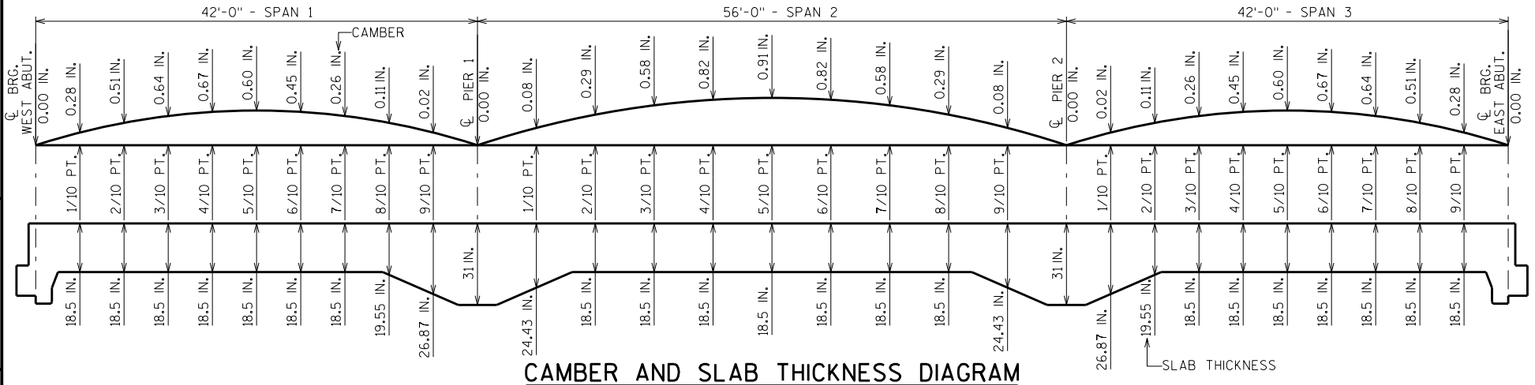
1146-75-71



PLAN

TOP OF SLAB ELEVATIONS

	℄ BRG. W. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	℄ PIER 1	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	℄ PIER 2	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	℄ BRG. E. ABUT.	
NORTH EDGE OF SLAB	767.95	767.93	767.91	767.89	767.87	767.85	767.83	767.81	767.79	767.77	767.74	767.72	767.69	767.66	767.63	767.60	767.58	767.55	767.52	767.49	767.46	767.44	767.42	767.40	767.38	767.36	767.34	767.32	767.30	767.28	767.25	NORTH EDGE OF SLAB
CROWN POINT	768.33	768.31	768.29	768.26	768.24	768.22	768.20	768.18	768.16	768.14	768.12	768.09	768.06	768.03	768.01	767.98	767.95	767.92	767.89	767.87	767.84	767.82	767.80	767.77	767.75	767.73	767.71	767.69	767.67	767.65	767.63	CROWN POINT
℄ STH 15 WB	768.05	768.03	768.01	767.99	767.97	767.95	767.93	767.91	767.89	767.86	767.84	767.82	767.79	767.76	767.73	767.70	767.68	767.65	767.62	767.59	767.56	767.54	767.52	767.50	767.48	767.46	767.44	767.42	767.40	767.37	767.35	℄ STH 15 WB
SOUTH EDGE OF SLAB	767.91	767.89	767.87	767.85	767.83	767.81	767.79	767.77	767.74	767.72	767.70	767.67	767.65	767.62	767.59	767.56	767.53	767.51	767.48	767.45	767.42	767.40	767.38	767.36	767.34	767.32	767.30	767.28	767.25	767.23	767.21	SOUTH EDGE OF SLAB



CAMBER AND SLAB THICKNESS DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.
PARAPETS, SIDEWALKS AND MEDIANS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN & REFERENCE LINE FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE
LESS (-) SLAB THICKNESS
PLUS (+) CAMBER
PLUS (+) FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)
EQUALS = TOP OF SLAB FALSEWORK ELEVATION.

SURVEY TOP OF SLAB ELEVATIONS

	℄ BRG. WEST ABUTMENT	5/10 PT.	℄ PIER 1	5/10 PT.	℄ PIER 2	5/10 PT.	℄ BRG. EAST ABUTMENT
NORTH GUTTERLINE							
℄ STH 15 WB							
CROWN POINT							
SOUTH GUTTERLINE							

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE ℄ OF ABUTMENTS, THE ℄ OF PIERS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTERLINES, ℄, AND CROWN POINT. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

NOTES

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-296

DRAWN BY JPH/MJH | PLANS CK'D. MJK

SUPERSTRUCTURE PLAN & DATA

SHEET 13

400

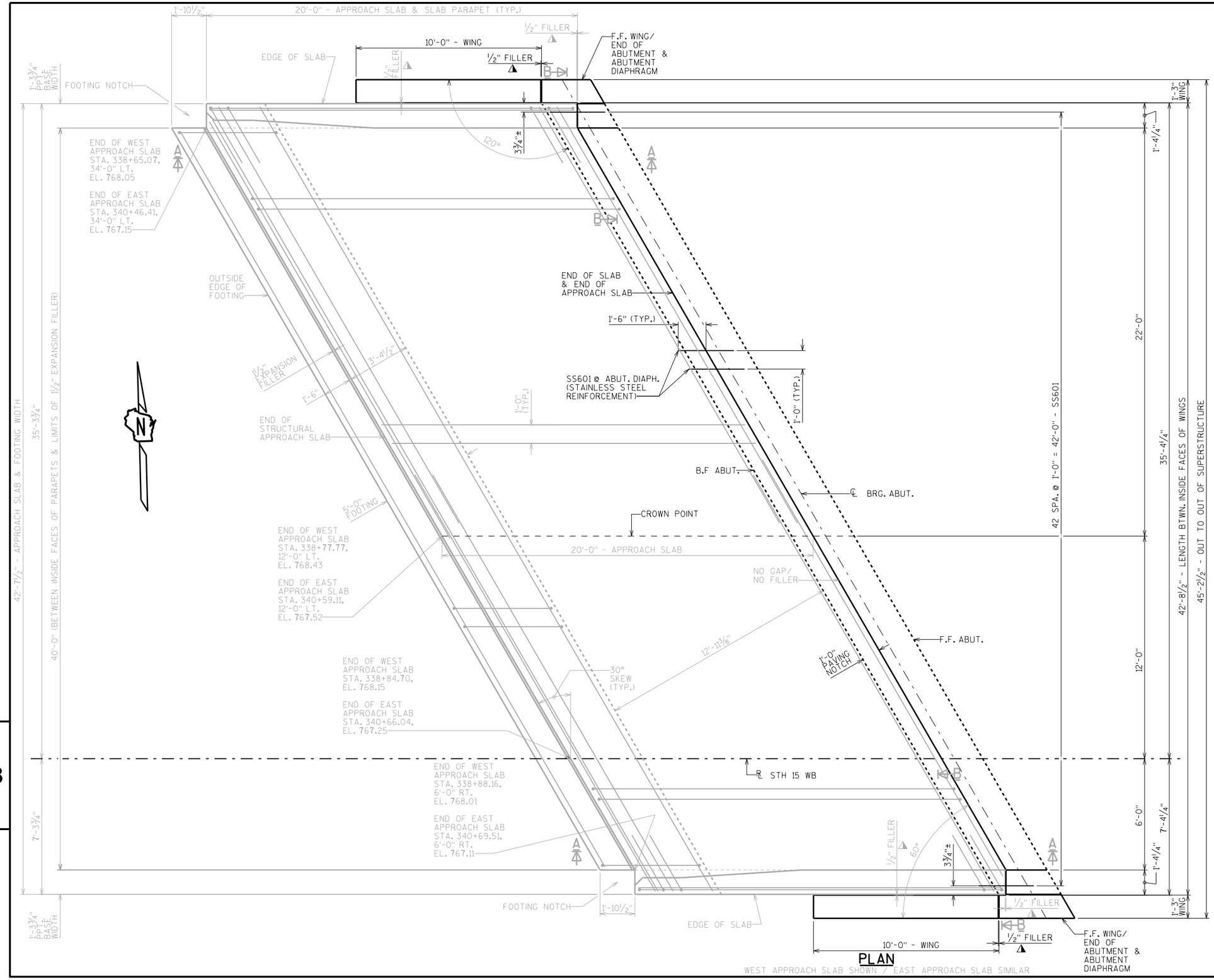
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8

SCALE = 7.00

STATE PROJECT NUMBER

1146-75-71



NOTE:
STRUCTURAL APPROACH SLABS TO BE CONSTRUCTED UNDER CONTRACT NUMBER 1146-75-77

⚠SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING, GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-296

DRAWN BY JPH | PLANS CK'D. MJK

STRUCTURAL APPROACH SLAB

SHEET 14

401

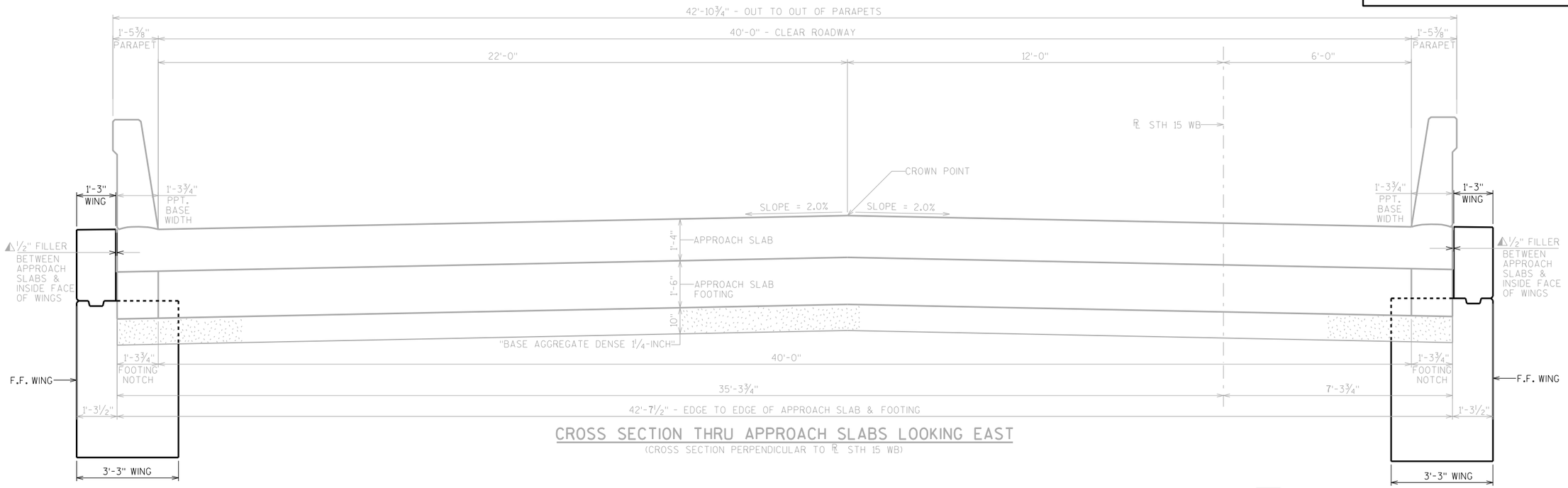
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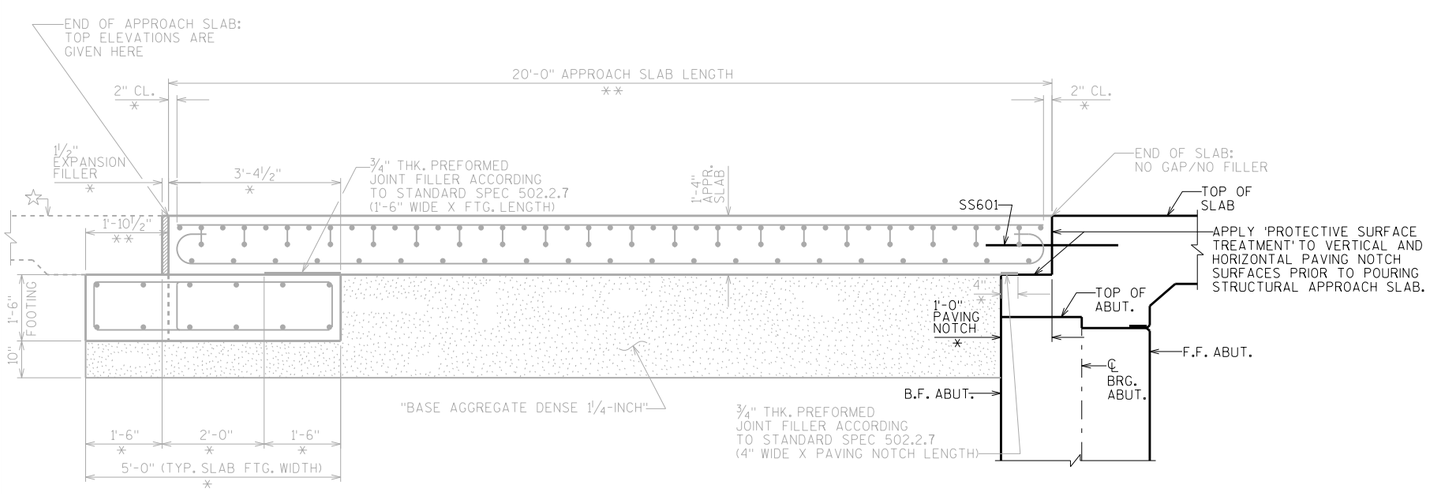
STATE PROJECT NUMBER

1146-75-71



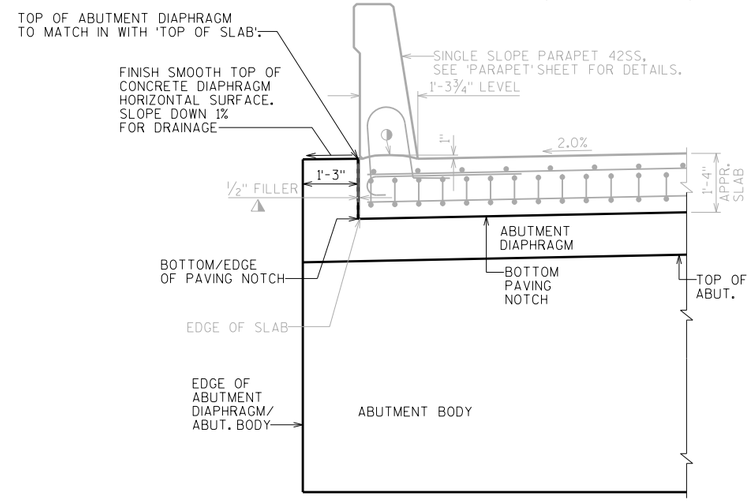
CROSS SECTION THRU APPROACH SLABS LOOKING EAST

(CROSS SECTION PERPENDICULAR TO ℄ STH 15 WB)



SECTION A-A THRU APPROACH SLAB

WEST APPROACH SLAB SHOWN / EAST APPROACH SLAB SIMILAR



SECTION B-B (EDGE OF SLAB DETAIL)

NOTE:
STRUCTURAL APPROACH SLABS TO BE CONSTRUCTED UNDER CONTRACT NUMBER 1146-75-77

*DIMENSION IS TAKEN NORMAL TO ℄ BRG. ABUTS.

**DIMENSION IS TAKEN PARALLEL TO ℄ STH 15 WB. BARS PLACED PARALLEL TO ℄ STH 15 WB.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-296

DRAWN BY JPH/MJH | PLANS CK'D. MJK

STRUCTURAL APPROACH SLAB DETAILS

SHEET 15

402

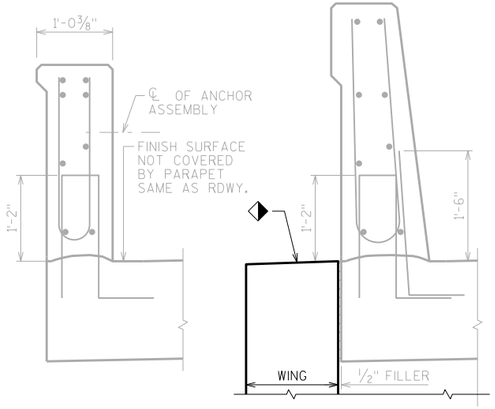
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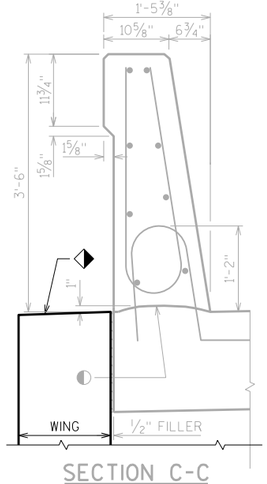
STATE PROJECT NUMBER

1146-75-71

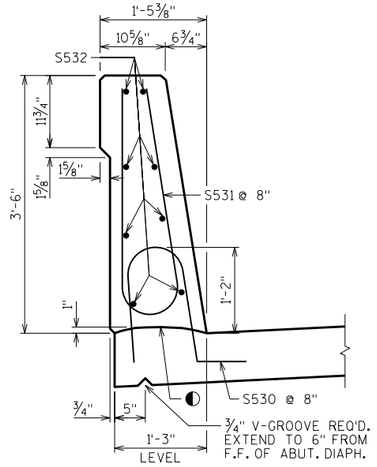


SECTION A-A

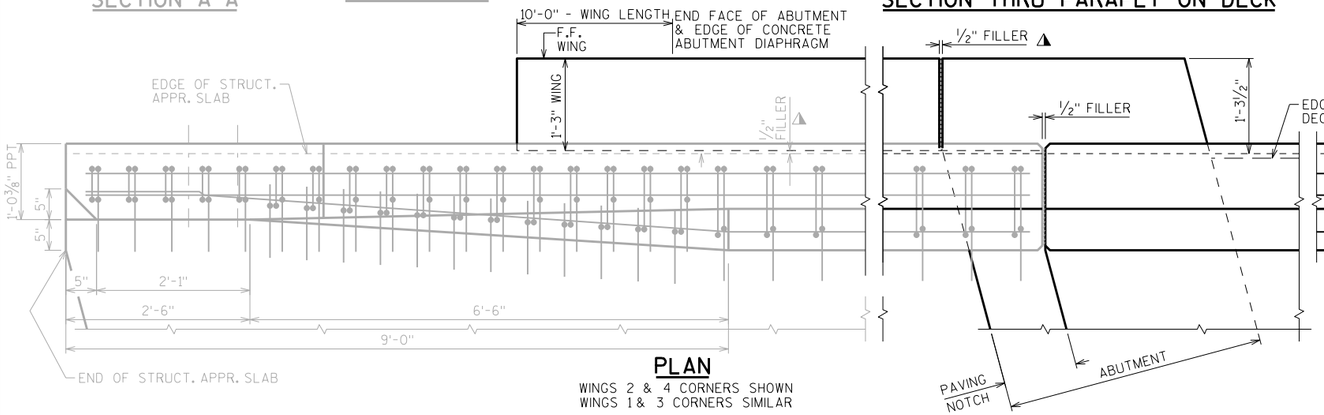
SECTION B-B



SECTION C-C

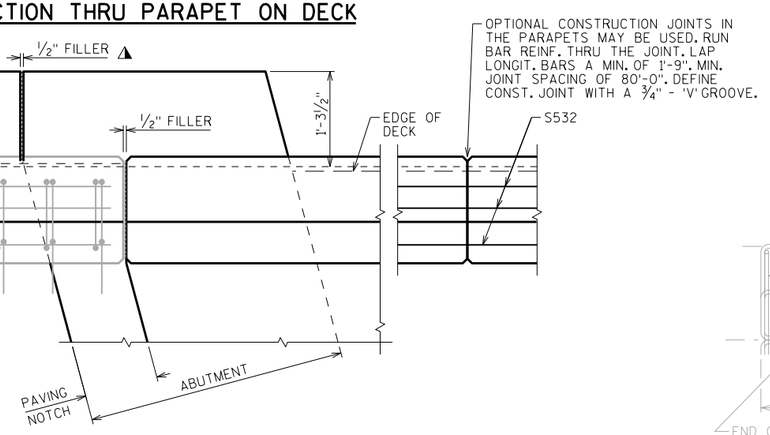


SECTION THRU PARAPET ON DECK

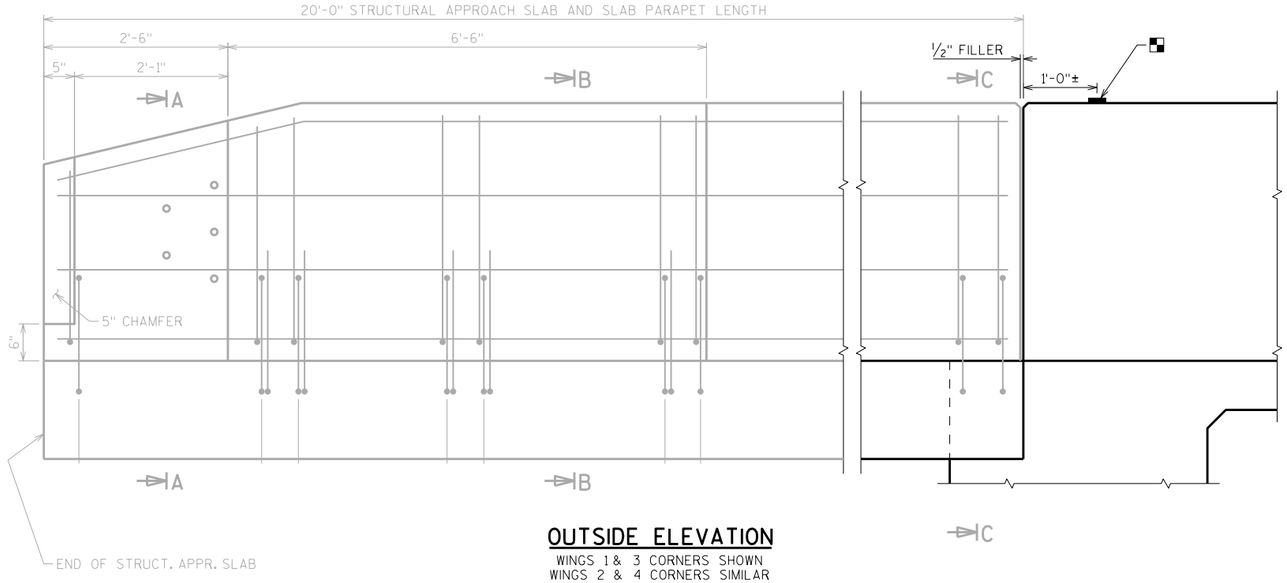


PLAN

WINGS 2 & 4 CORNERS SHOWN
WINGS 1& 3 CORNERS SIMILAR



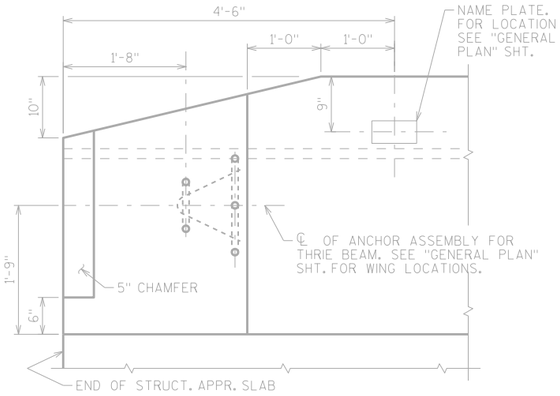
OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF. THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE CONST. JOINT WITH A ¾" - 'V' GROOVE.



OUTSIDE ELEVATION

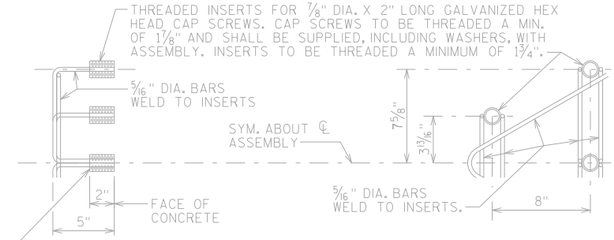
WINGS 1& 3 CORNERS SHOWN
WINGS 2 & 4 CORNERS SIMILAR

BENCH MARK CAP (WHEN SUPPLIED). AVOID PLACING A BENCH MARK CAP BELOW A RAIL OR FENCE SYSTEM THAT IS ATTACHED TO THE TOP OF THE PARAPET.



PARAPET END TREATMENT DETAIL

LOOKING AT INSIDE FACE OF PARAPET



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

◐ CONST. JOINT - STRIKE OFF AS SHOWN

◆ SLOPE FOR DRAINAGE

▽ S530 BARS TO BE TIED TO SLAB STEEL BEFORE SLAB IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-296

DRAWN BY JPH/MJH | PLANS CK'D. MJK

SINGLE SLOPE PARAPET 42SS

SHEET 16

403

SCALE = 1.00

8

8

STATE PROJECT NUMBER

1146-75-71

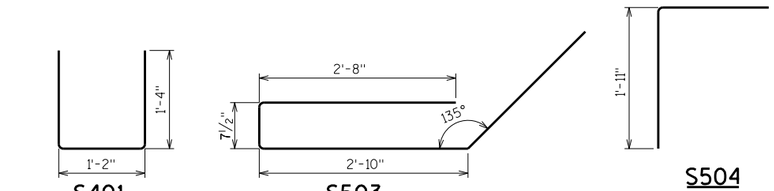
BILL OF BARS FOR SUPERSTRUCTURE

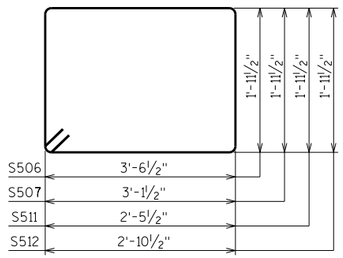
NOTE:
THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

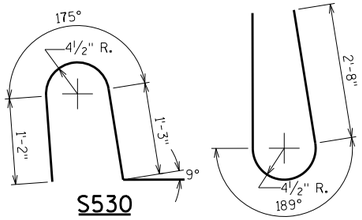
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
S401	X	86	3'-8"	X	ABUT. DIAPHS.-F.F.-BOT.-VERT.-LONGIT.-AT 3" NOTCHES
S402	X	8	25'-4"		ABUT. DIAPHS.-F.F.-BOT.-HORIZ.-TRANS.-AT 3" NOTCHES
S503	X	86	8'-1"	X	ABUT. DIAPHS./SLAB-BOT.-VERT.-LONGIT.-UNDER PAVING NOTCHES
S504	X	86	3'-4"	X	ABUT. DIAPHS./SLAB-VERT.-LONGIT.-ALONG PAVING NOTCHES
S505	X	12	27'-3"		ABUT. DIAPHS.-BOT.-HORIZ.-TRANSVERSE
S506	X	2	11'-8"	X	ABUT. DIAPHS.-VERTICAL-LONGIT.-AT WINGS 1&3 CORNERS ONLY
S507	X	2	10'-10"	X	ABUT. DIAPHS.-VERTICAL-LONGIT.-AT WINGS 1&3 CORNERS ONLY
S408	X	10	1'-11"		ABUT. DIAPHS.-OUTSIDE FACES-VERT.-AT ALL FOUR WING CORNERS
S609	X	6	7'-2"	X	ABUT. DIAPHS.-HORIZ.-TRANS.-AT WINGS 1&3 CORNERS ONLY
S610	X	6	6'-0"	X	ABUT. DIAPHS.-HORIZ.-TRANS.-AT WINGS 2&4 CORNERS ONLY
S511	X	2	9'-6"	X	ABUT. DIAPHS.-VERTICAL-LONGIT.-AT WINGS 2&4 CORNERS ONLY
S512	X	2	10'-4"	X	ABUT. DIAPHS.-VERTICAL-LONGIT.-AT WINGS 2&4 CORNERS ONLY
S713	X	86	21'-8"	X	PIER HAUNCHES-BOT.-VERT.-LONGIT.
S614	X	117	48'-8"		SLAB & PIER HAUNCHES-BOT.-HORIZ.-TRANSVERSE
S415	X	40	25'-3"		PIER HAUNCHES-BOT.-HORIZ.-TRANSVERSE-ON EACH SIDE OF PIERS
S516	X	155	48'-8"		SLAB-TOP-HORIZ.-TRANSVERSE
S517	X	284	5'-0"		SLAB-TOP-HORIZ.-TRANSVERSE-AT BOTH EDGES
S1018	X	28	38'-4"		SLAB-BOTTOM-HORIZ.-LONGIT.-AT SPANS 1&3 EXTERIORS
S1019	X	14	47'-8"		SLAB-BOTTOM-HORIZ.-LONGIT.-AT SPAN 2 EXTERIORS
S1020	X	24	30'-0"		SLAB-BOTTOM-HORIZ.-LONGIT.-AT SPANS 1&3 EXTERIORS
S1021	X	12	28'-0"		SLAB-BOTTOM-HORIZ.-LONGIT.-AT SPAN 2 EXTERIORS
S922	X	58	37'-3"		SLAB-BOTTOM-HORIZ.-LONGIT.-AT SPANS 1&3 INTERIOR
S923	X	29	45'-6"		SLAB-BOTTOM-HORIZ.-LONGIT.-AT SPAN 2 INTERIOR
S924	X	60	30'-0"		SLAB-BOTTOM-HORIZ.-LONGIT.-AT SPANS 1&3 INTERIOR
S925	X	30	28'-0"		SLAB-BOTTOM-HORIZ.-LONGIT.-AT SPAN 2 INTERIOR
S1026	X	24	57'-6"		SLAB-TOP-HORIZ.-LONGIT.-AT BOTH ENDS-EXTERIORS
S1027	X	20	49'-8"		SLAB-TOP-HORIZ.-LONGIT.-OVER PIERS 1&2-EXTERIORS
S928	X	54	57'-6"		SLAB-TOP-HORIZ.-LONGIT.-AT BOTH ENDS-INTERIOR
S929	X	56	47'-8"		SLAB-TOP-HORIZ.-LONGIT.-OVER PIERS 1&2-INTERIOR
S530	X	424	4'-5"	X	PARAPETS/SLAB-VERTICAL-TRANSVERSE-AT BOTH SIDES
S531	X	424	6'-8"	X	PARAPETS-VERTICAL-TRANSVERSE-AT BOTH SIDES
S532	X	48	48'-3"		PARAPETS-BOTH FACES-HORIZ.-LONGIT.-AT BOTH SIDES

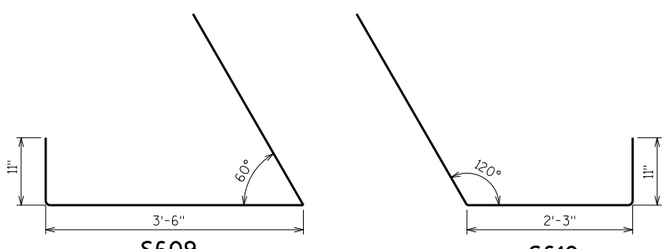
SS601		86	3'-0"		HAUNCHED SLAB/APPROACH SLAB-HORIZ.-LONGIT.-AT PAVING NOTCHES

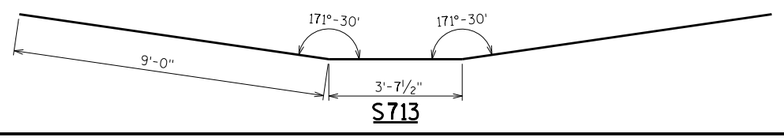
SS601 — STAINLESS STEEL REINFORCEMENT











8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-296

DRAWN BY JPH/MJH | PLANS CK'D. MJK

SUPERSTRUCTURE BAR DETAILS

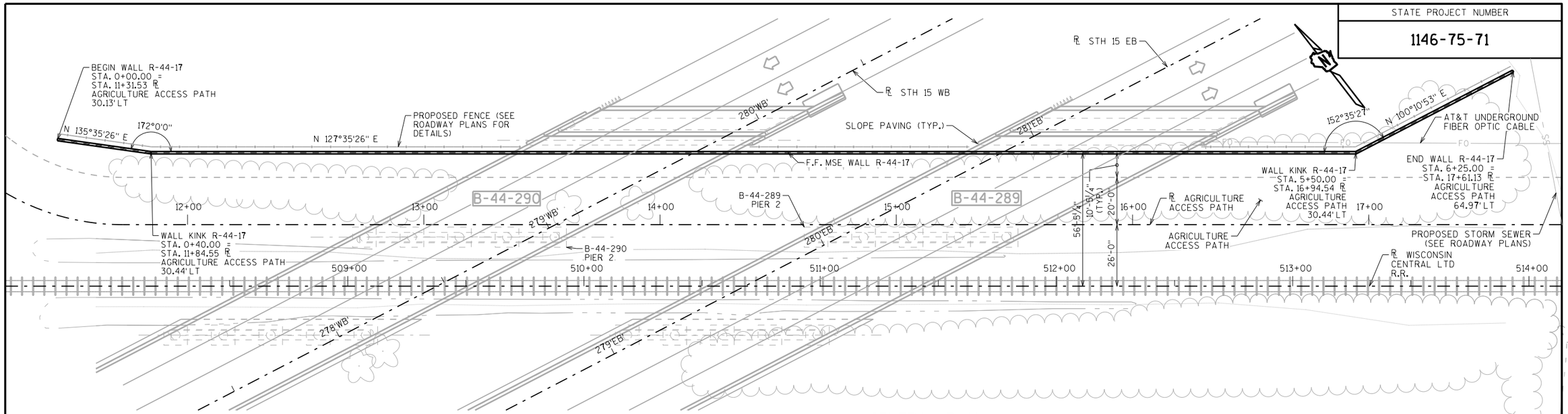
SHEET 17

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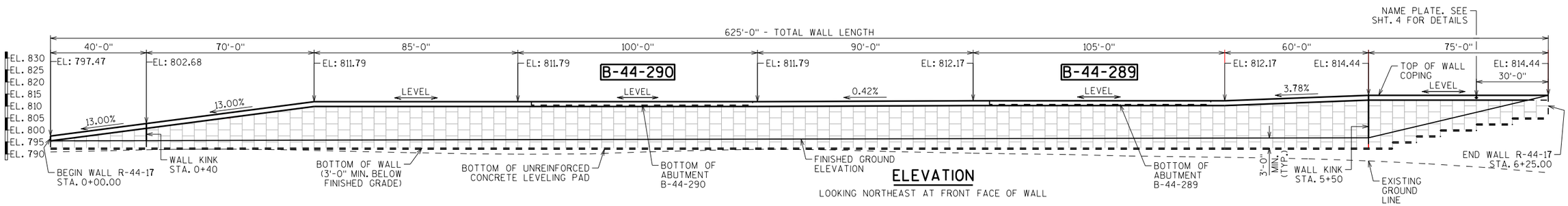
STATE PROJECT NUMBER

1146-75-71



GENERAL PLAN

R-44-17 MSE RETAINING WALL



ELEVATION

LOOKING NORTHEAST AT FRONT FACE OF WALL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

THE COST OF FURNISHING AND PLACING MSE BACKFILL WITHIN THE REINFORCED SOIL ZONE IS TO BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-44-17".

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALLS.

THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF RETAINING WALLS R-44-17 WITH THE ABUTMENTS AND PIERS OF BRIDGES B-44-289/290.

THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-44-17" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO THE TOP OF THE LEVELING PAD, SET AT A CONSTANT DEPTH OF 3'-0" BELOW FINISHED GRADE. WALL AREAS CONSTRUCTED OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT.

THE QUANTITY OF CONCRETE MASONRY, REINFORCING STEEL, AND RUBBERIZED MEMBRANE WATERPROOFING FOR THE CAST-IN-PLACE COPING, IS PAID FOR UNDER THE BID-ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-44-17".

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/QMP".

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE PLANS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL SHALL BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET AND THE GEOMETRY TABLE ON SHEET 2.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH

MATERIAL PROPERTIES

CONCRETE MASONRY (COPING) ——————f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT, GRADE 60 —fy = 60,000 P.S.I.

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES, WALL DATA & PROFILES
3. WALL TYPICAL SECTIONS
4. WALL DETAILS
5. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS:

JOHN SENDOR (608) 266-5163

DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED DMB 01/06/21

CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-44-17

MSE WALL ALONG B-44-289/290 EAST ABUTMENTS

COUNTY	TOWN
OUTAGAMIE	HORTONIA

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
NAR	JJS	NAR	JJS

GENERAL PLAN

SHEET 1 OF 5

405

I.D. 1146-75-00M DATE: JAN. 2021

SCALE = 21.00

STATE PROJECT NUMBER

1146-75-71

SOIL PARAMETERS

SOIL DESCRIPTIONS	FRICTION ANGLE (DEGREES)	EFFECTIVE COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL BEHIND THE WALL IN THE REINFORCING ZONE	30	0	120
FILL, GRANULAR BEHIND AND BELOW THE REINFORCING ZONE	30	0	125
BORING B-322, STA. 2+00			
NEW FILL EL. 820.0 TO EL. 790.0	30	0	125
MEDIUM DENSE SAND EL. 790.0 TO EL. 782.0	32	0	125
MEDIUM DENSE TO DENSE SAND EL. 782.0 TO EL. 772.0	34	0	130
VERY DENSE SAND EL. 772.0 AND BELOW	40	0	130
BORING B-317, STA. 3+85			
NEW FILL EL. 820.0 TO EL. 790.0	30	0	125
VERY STIFF CLAY EL. 790.0 TO EL. 777.0	31	100	135
MEDIUM DENSE SAND EL. 777.0 TO EL. 772.0	34	0	130
VERY DENSE SAND EL. 772.0 AND BELOW	40	0	130
BORING B-318, STA. 5+50			
NEW FILL EL. 820.0 TO EL. 785.0	30	0	125
VERY STIFF CLAY EL. 785.0 TO EL. 775.0	31	100	135
MEDIUM DENSE SAND EL. 775.0 TO EL. 770.0	32	0	130
VERY DENSE SAND EL. 770.0 AND BELOW	40	0	130

WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS			
WALL HEIGHT (FEET)[1]	18.9	18.9	20.8
EXPOSED WALL HEIGHT (FEET)	15.9	15.9	17.8
MINIMUM LENGTH OF REINFORCEMENT (FEET)[3]	32.0	28.6	26.0
WALL STATION	2+00	3+85	5+50
BORING USED	B-322	B-317	B-318
CAPACITY TO DEMAND RATIO (CDR)[4]			
SLIDING (CDR > 1.0)	2.40	2.14	1.39
ECCENTRICITY (CDR > 1.0)	7.76	5.88	5.90
OVERALL STABILITY (CDR > 1.0)	1.00	1.01	1.01
BEARING RESISTANCE (CDR > 1.0)	1.80	1.24	1.32
FACTORED BEARING RESISTANCE (KSF)	9.91	6.86	6.66

NOTES:
1. THE WALL HEIGHT INCLUDES AN EMBEDMENT OF 3.0 FEET.
2. THE WALL STABILITY EVALUATION INCLUDED A SURCHARGE LOAD THAT WAS EQUAL TO THE WEIGHT OF THE SOIL BEHIND THE ABUTMENT.
3. THE LENGTH OF REINFORCEMENT IS THE MINIMUM REQUIRED LENGTH.
4. CDR REQUIREMENTS AND LOAD AND RESISTANCE FACTORS ARE PRESENTED IN CHAPTER 14 OF THE BRIDGE MANUAL.
5. NA = NOT APPLICABLE, GLOBAL STABILITY WAS EVALUATED AT THE CRITICAL WALL LOCATION.
6. FINAL DESIGN FOR INTERNAL STABILITY, EXTERNAL SLIDING, AND ECCENTRICITY AT OTHER WALL STATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR'S WALL DESIGNER.



PROFILE GRADE LINE FOR AGRICULTURE ACCESS PATH

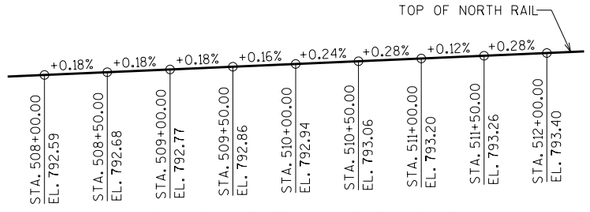
GEOMETRY TABLE

WALL STATION	℄ AGRICULTURE ACCESS PATH	OFFSET TO F.F. WALL	TOP OF WALL ELEV.	FINISHED GRADE ELEV.	EXISTING GRADE ELEV.
0+00.00	11+31.53	30.13' LT.	797.47	795.47	790.84
0+25.00	11+68.22	32.46' LT.	800.72	796.47	791.38
0+40.00	11+84.55	30.44' LT.	802.68	795.54	791.75
0+50.00	11+94.55	30.44' LT.	803.98	795.62	791.92
0+75.00	12+19.55	30.44' LT.	807.23	795.70	792.02
1+00.00	12+44.55	30.44' LT.	810.49	795.76	791.72
1+10.00	12+54.55	30.44' LT.	811.79	795.78	791.46
1+25.00	12+69.55	30.44' LT.	811.79	795.81	791.09
1+50.00	12+94.55	30.44' LT.	811.79	795.86	790.54
1+75.00	13+19.55	30.44' LT.	811.79	795.92	790.08
1+95.00	13+39.55	30.44' LT.	811.79	795.96	789.91
2+00.00	13+44.55	30.44' LT.	811.79	795.97	789.89
2+25.00	13+69.55	30.44' LT.	811.79	796.03	790.06
2+50.00	13+94.55	30.44' LT.	811.79	796.08	790.92
2+75.00	14+19.55	30.44' LT.	811.79	796.14	791.58
2+95.00	14+39.55	30.44' LT.	811.79	796.18	791.94
3+00.00	14+44.55	30.44' LT.	811.81	796.19	791.99
3+25.00	14+69.55	30.44' LT.	811.92	796.25	791.76
3+50.00	14+94.55	30.44' LT.	812.02	796.30	791.01
3+75.00	15+19.55	30.44' LT.	812.13	796.35	790.53
3+85.00	15+29.55	30.44' LT.	812.17	796.38	790.34
4+00.00	15+44.55	30.44' LT.	812.17	796.41	790.11
4+25.00	15+69.55	30.44' LT.	812.17	796.46	789.76
4+50.00	15+94.55	30.44' LT.	812.17	796.52	789.16
4+75.00	16+19.55	30.44' LT.	812.17	796.57	788.83
4+90.00	16+34.55	30.44' LT.	812.17	796.61	788.62
5+00.00	16+44.55	30.44' LT.	812.55	796.63	788.47
5+25.00	16+69.55	30.44' LT.	813.49	796.68	788.00
5+50.00	16+94.55	30.44' LT.	814.44	796.74	787.13
5+75.00	17+16.74	41.95' LT.	814.44	802.54	785.91
6+00.00	17+38.94	53.46' LT.	814.44	808.34	784.29
6+25.00	17+61.13	64.97' LT.	814.44	814.44	782.19

NOTE: STATIONS & OFFSET DISTANCES ARE TO FRONT FACE OF WALL.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	670
SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-44-17	SF	10510
	NON-BID ITEMS		
	PREFORMED JOINT FILLER	SIZE	3/4"
	NON-BITUMINOUS JOINT SEALER	SIZE	1"
	EXPANDED POLYSTYRENE	SIZE	1"
	CORK FILLER	SIZE	1"



WISCONSIN CENTRAL LINE RAILROAD

PROFILE GRADE LINE FOR EXISTING RAILROAD

(FOR INFORMATIONAL PURPOSES ONLY)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-17

DRAWN BY NAR | PLANS CK'D. JJS

QUANTITIES, WALL DATA & PROFILES

SHEET 2

406

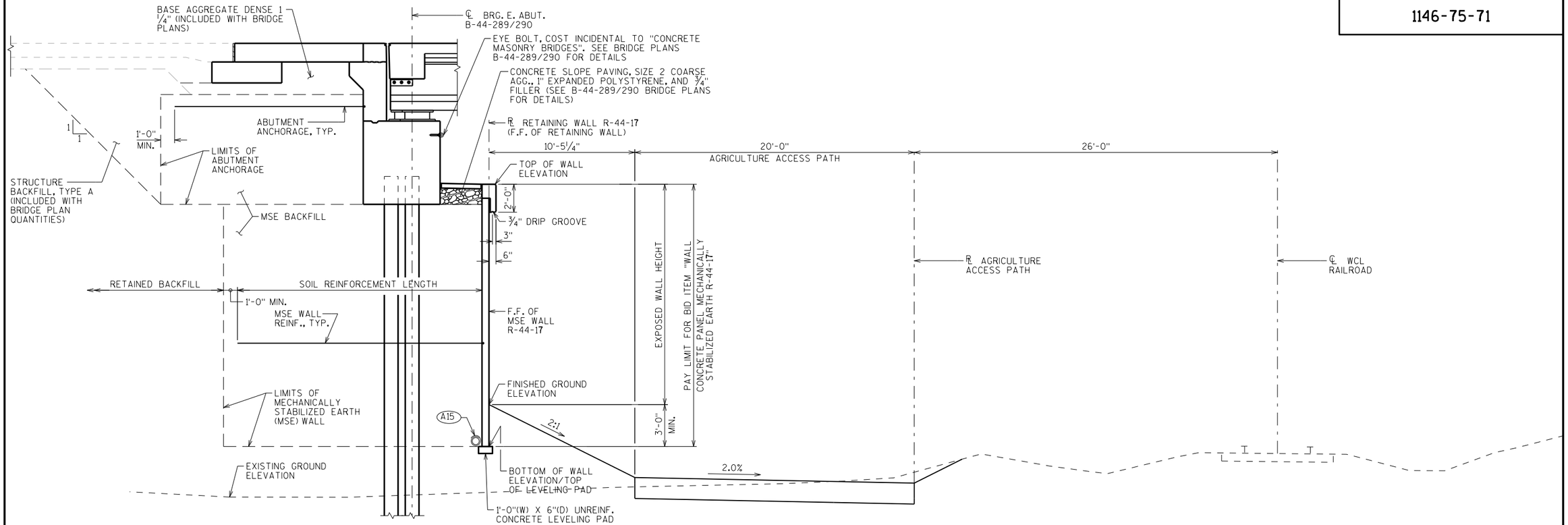
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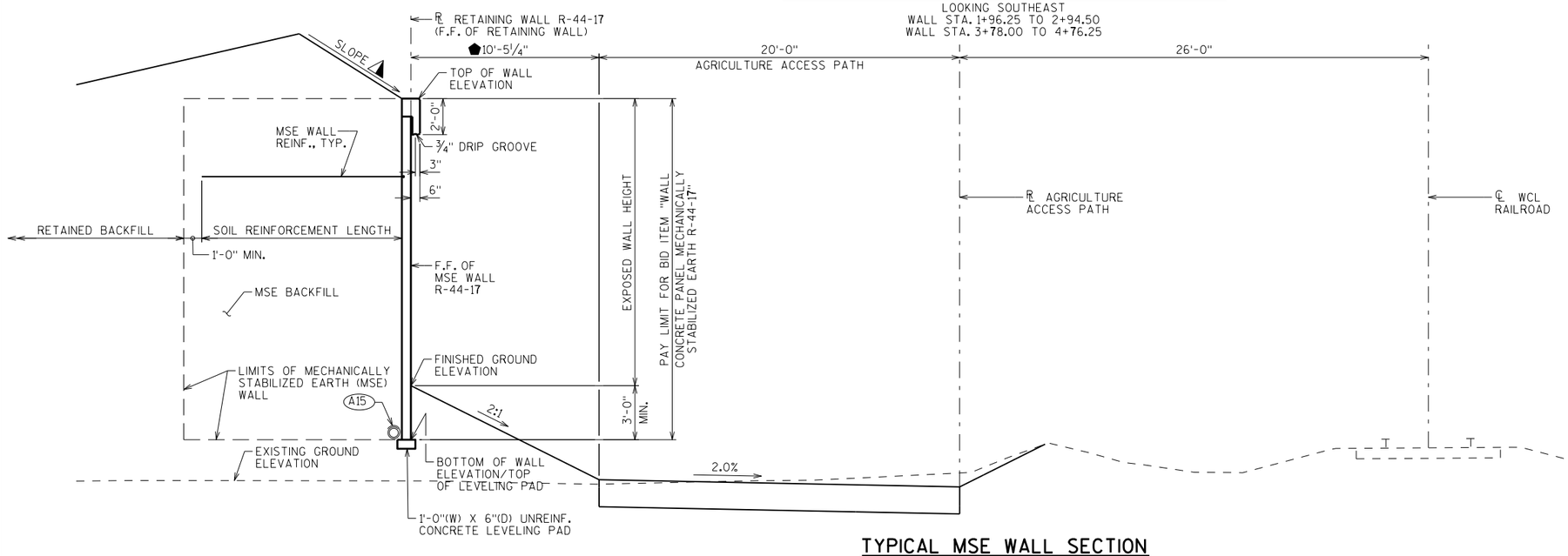
STATE PROJECT NUMBER

1146-75-71



TYPICAL MSE WALL SECTION AT ABUTMENT

LOOKING SOUTHEAST
WALL STA. 1+96.25 TO 2+94.50
WALL STA. 3+78.00 TO 4+76.25



TYPICAL MSE WALL SECTION

LOOKING SOUTHEAST
WALL STA. 0+00.00 TO 1+19.25
WALL STA. 2+94.50 TO 3+78.00
WALL STA. 4+76.25 TO 6+25.00

⬟ VARIES FROM 10'-5 1/4" TO 44'-11 5/8" AT WALL STA. 5+50 TO WALL STA. 6+25

(A15) PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

⚠ SLOPE BEHIND MSE WALL VARIES. SEE ROADWAY PLANS FOR MORE INFORMATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-17

DRAWN BY NAR | PLANS CK'D. JJS

WALL TYPICAL SECTIONS

SHEET 3

407

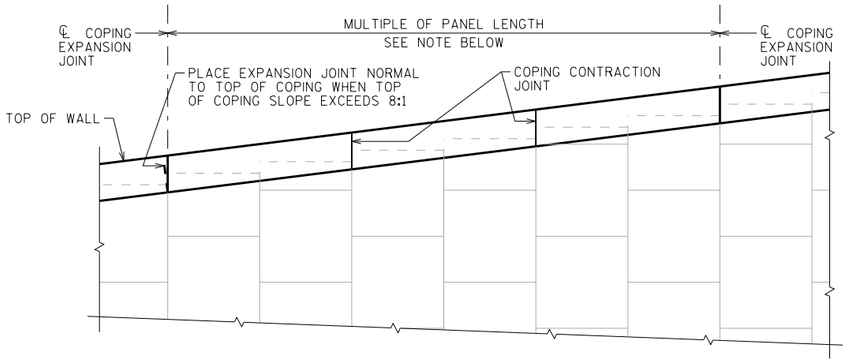
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STATE PROJECT NUMBER

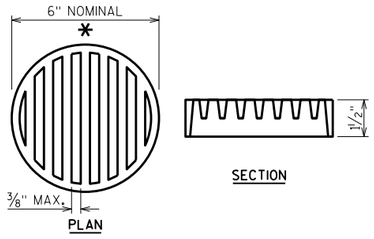
1146-75-71



CAST-IN-PLACE COPING PARTIAL ELEVATION

LOOKING AT F.F. WALL

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.



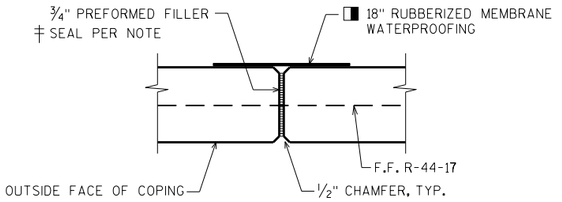
RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

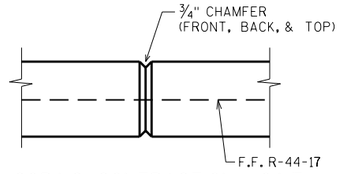
‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONC.)



COPING EXPANSION JOINT

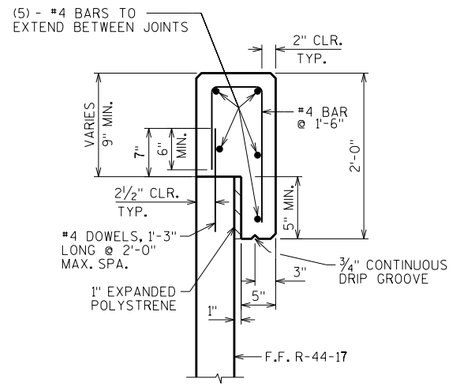
DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

◨ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.

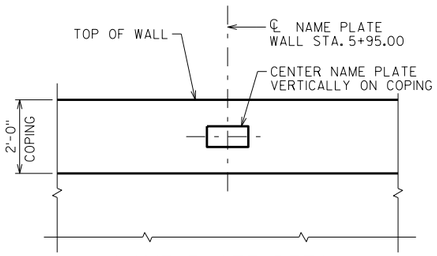


COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'



CAST-IN-PLACE CONCRETE COPING DETAIL



NAME PLATE DETAIL

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-17

DRAWN BY NAR | PLANS CK'D. JJS

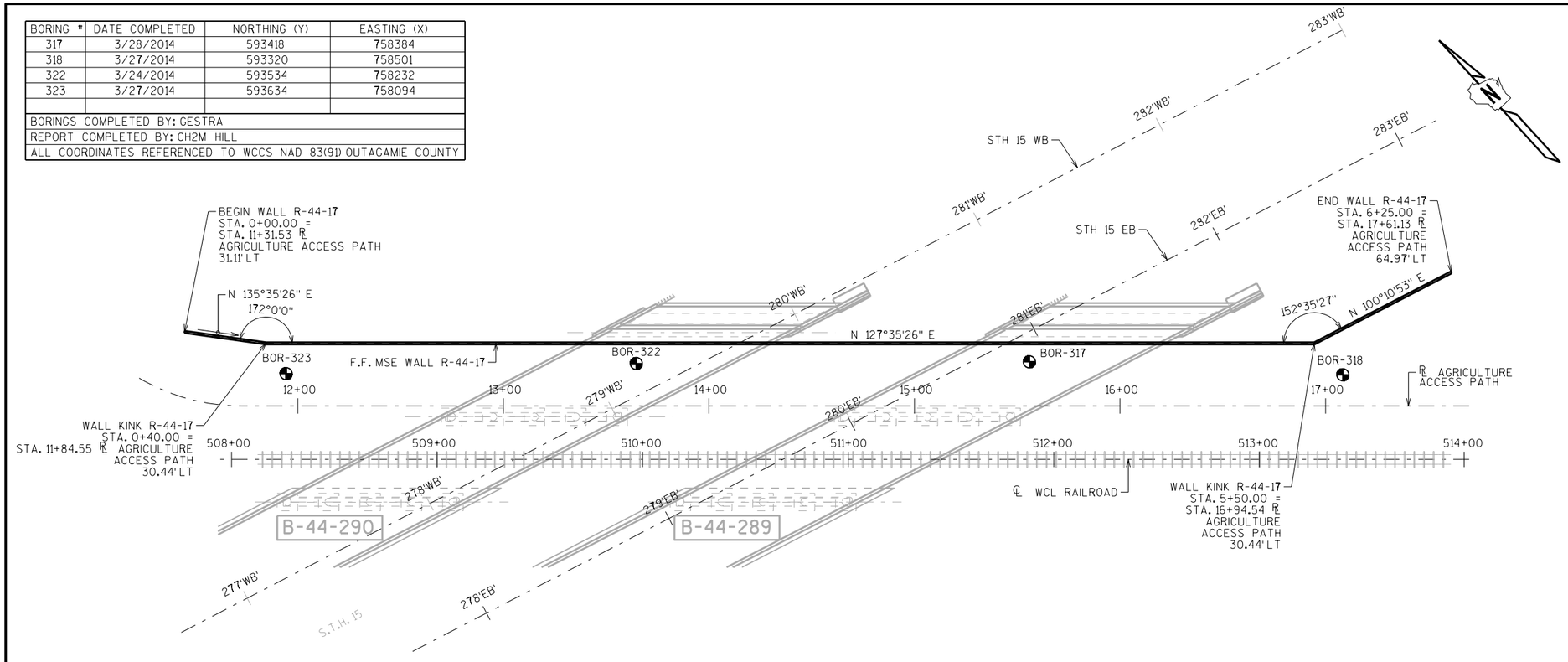
WALL DETAILS

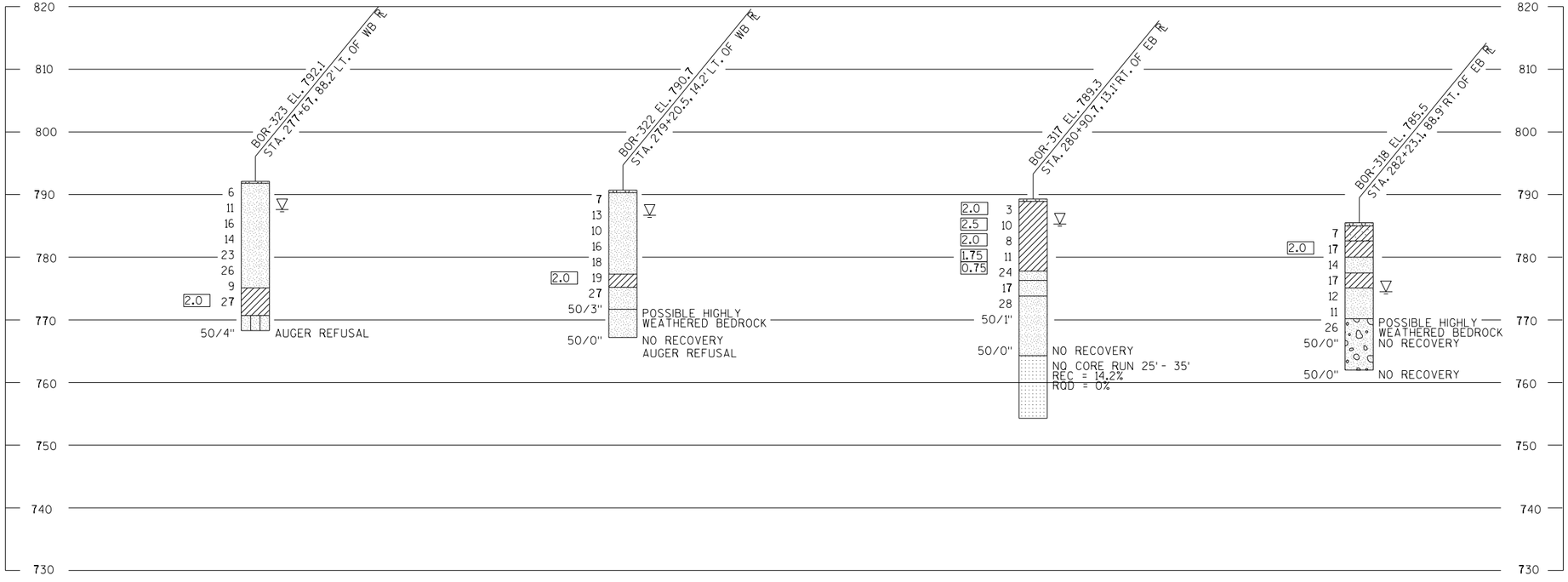
SHEET 4

408

SCALE = 5.33

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
317	3/28/2014	593418	758384
318	3/27/2014	593320	758501
322	3/24/2014	593534	758232
323	3/27/2014	593634	758094
BORINGS COMPLETED BY: GESTRA			
REPORT COMPLETED BY: CH2M HILL			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY			





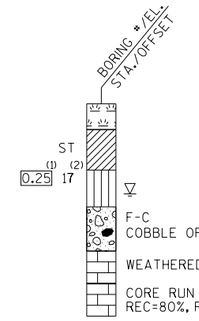
STATE PROJECT NUMBER

1146-75-71

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-17

DRAWN BY TLP/NAR | PLANS CK'D. JJS

SUBSURFACE EXPLORATION

SHEET 5

409

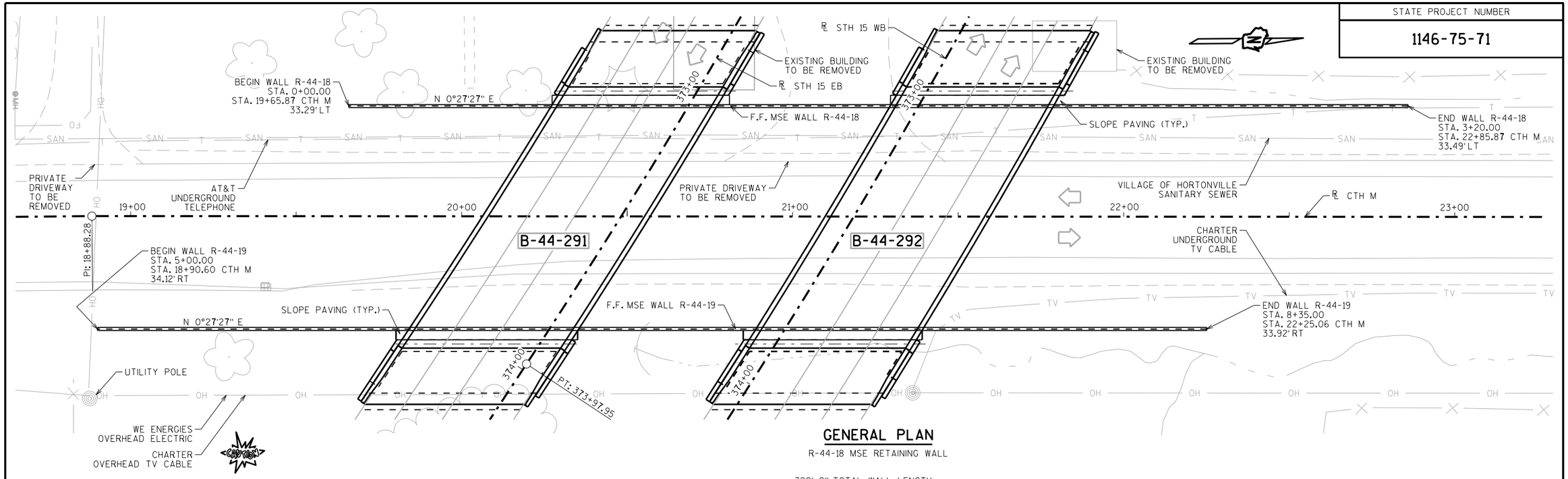
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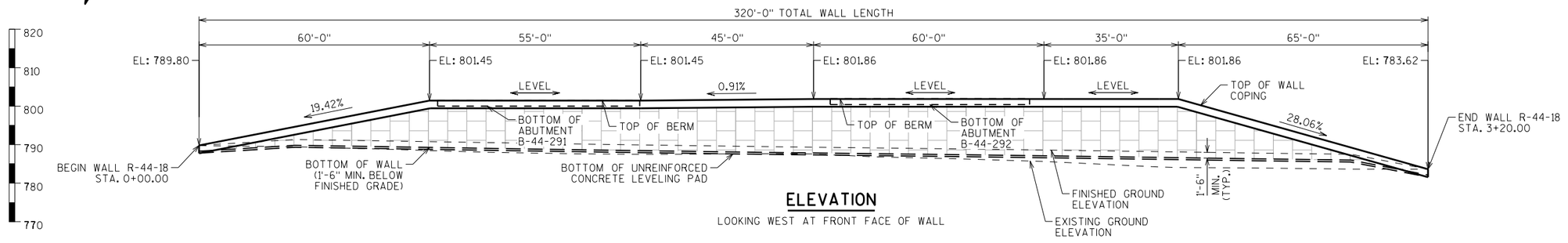
STATE PROJECT NUMBER

1146-75-71



GENERAL PLAN

R-44-18 MSE RETAINING WALL



ELEVATION

LOOKING WEST AT FRONT FACE OF WALL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

THE COST OF FURNISHING AND PLACING MSE BACKFILL WITHIN THE REINFORCED SOIL ZONE IS TO BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALLS.

THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF RETAINING WALLS R-44-18/19 WITH THE ABUTMENTS OF BRIDGES B-44-291/292.

THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO THE TOP OF THE LEVELING PAD, SET AT A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE. WALL AREAS CONSTRUCTED OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT.

THE QUANTITY OF CONCRETE MASONRY, REINFORCING STEEL, AND RUBBERIZED MEMBRANE WATERPROOFING FOR THE CAST-IN-PLACE COPING, IS PAID FOR UNDER THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE PLANS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL SHALL BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET AND THE GEOMETRY TABLE ON SHEET 2.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MSE

MATERIAL PROPERTIES:

CONCRETE MASONRY (COPING) ——————f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT, GRADE 60 —fy = 60,000 P.S.I.

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES, WALL DATA & PROFILES
3. WALL DETAILS
4. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS:

STACIE WEIS (608) 261-6109

DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED DMB 01/06/21

CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-44-18

MSE WALL ALONG B-44-291/292 WEST ABUTMENTS

COUNTY	TOWN
OUTAGAMIE	HORTONIA

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
SEW	SAD	SEW	SAD

GENERAL PLAN

SHEET 1 OF 4

410

I.D. 1176-75-00N DATE: JAN. 2021

SCALE = 15.00

STATE PROJECT NUMBER

1146-75-71

SOIL PARAMETERS

SOIL DESCRIPTIONS	FRICTION ANGLE (DEGREES)	EFFECTIVE COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL BEHIND THE WALL IN THE REINFORCING ZONE	30	0	120
FILL, GRANULAR (BEHIND AND BELOW THE REINFORCING ZONE)	31	0	120
BORING B-332, STA. 1+10			
NEW FILL EL. 809.0 TO EL. 786.0	30	0	125
MEDIUM DENSE SAND EL. 786.0 TO EL. 777.0	33	0	128
VERY STIFF CLAY EL. 777.0 TO EL. 773.0	32	100	135
WEATHERED ROCK/BEDROCK EL. 773.0 AND BELOW	45	0	150
BORING B-334, STA. 2+15			
NEW FILL EL. 809.0 TO EL. 786.0	30	0	125
MEDIUM DENSE SAND EL. 786.0 TO EL. 778.0	33	0	128
VERY STIFF CLAY EL. 778.0 TO EL. 773.0	32	100	135
WEATHERED ROCK/BEDROCK EL. 773.0 AND BELOW	45	0	150
BORING B-348, STA. 2+55			
NEW FILL EL. 809.0 TO EL. 783.0	30	0	125
MEDIUM DENSE SAND EL. 783.0 TO EL. 773.0	33	0	128
STIFF CLAY EL. 773.0 TO EL. 767.0	31	75	135
WEATHERED ROCK/BEDROCK EL. 767.0 AND BELOW	45	0	150

WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS			
WALL HEIGHT (FEET) [1]	13.0	14.7	15.3
EXPOSED WALL HEIGHT (FEET)	11.5	13.2	13.8
MINIMUM LENGTH OF REINFORCEMENT (FEET) [3]	18.5	20.2	15.4
WALL STATION	1+10	2+15	2+55
BORING USED	B-332	B-334	B-348
CAPACITY TO DEMAND RATIO (CDR) [4]			
SLIDING (CDR > 1.0)	1.6	1.58	1.11
ECCENTRICITY (CDR > 1.0)	6.04	>10	2.32
OVERALL STABILITY (CDR > 1.0)	1.02	1	1
BEARING RESISTANCE (CDR > 1.0)	2.2	2.2	2.2
FACTORED BEARING RESISTANCE (KSF)	6.6	6.6	6.6

NOTES:
1. THE WALL HEIGHT INCLUDES AN EMBEDMENT OF 1.5 FEET.
2. THE WALL STABILITY EVALUATION INCLUDED A SURCHARGE LOAD THAT WAS EQUAL TO THE WEIGHT OF THE SOIL BEHIND THE ABUTMENT.
3. THE LENGTH OF REINFORCEMENT IS THE MINIMUM REQUIRED LENGTH.
4. CDR REQUIREMENTS AND LOAD AND RESISTANCE FACTORS ARE PRESENTED IN CHAPTER 14 OF THE BRIDGE MANUAL.
5. NA = NOT APPLICABLE, GLOBAL STABILITY WAS EVALUATED AT THE CRITICAL WALL LOCATION.
6. FINAL DESIGN FOR INTERNAL STABILITY, EXTERNAL SLIDING, AND ECCENTRICITY AT OTHER WALL STATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR'S WALL DESIGNER.

GEOMETRY TABLE

SEGMENT	WALL STATION	℄ CTH M STATION	OFFSET TO F.F. WALL	TOP OF WALL ELEV.	FINISHED GRADE ELEV.	EXISTING GRADE ELEV.
A	0+00.00	19+65.87 'CTH M'	33.29 'LT'	789.80	789.80	789.74
	0+25.00	19+90.87 'CTH M'	33.31 'LT'	794.65	791.33	789.45
	0+50.00	20+15.87 'CTH M'	33.32 'LT'	799.51	790.94	788.78
B	0+60.00	20+25.87 'CTH M'	33.33 'LT'	801.45	790.78	788.46
	0+75.00	20+40.87 'CTH M'	33.34 'LT'	801.45	790.54	788.02
	1+00.00	20+65.87 'CTH M'	33.35 'LT'	801.45	790.15	787.60
C	1+15.00	20+80.87 'CTH M'	33.36 'LT'	801.45	789.93	787.50
	1+25.00	20+90.87 'CTH M'	33.37 'LT'	801.54	789.79	787.52
	1+50.00	21+15.87 'CTH M'	33.38 'LT'	801.77	789.45	787.67
D	1+60.00	21+25.87 'CTH M'	33.39 'LT'	801.86	789.34	787.58
	1+75.00	21+40.87 'CTH M'	33.40 'LT'	801.86	789.17	786.87
	2+00.00	21+65.87 'CTH M'	33.41 'LT'	801.86	788.86	786.25
E	2+20.00	21+85.87 'CTH M'	33.43 'LT'	801.86	788.60	785.63
	2+25.00	21+90.87 'CTH M'	33.43 'LT'	801.86	788.53	785.39
	2+50.00	22.15+87 'CTH M'	33.44 'LT'	801.86	788.18	784.20
F	2+55.00	22+20.87 'CTH M'	33.45 'LT'	801.86	788.11	784.06
	2+75.00	22+40.87 'CTH M'	33.46 'LT'	796.25	787.82	783.94
	3+00.00	22+65.87 'CTH M'	33.47 'LT'	789.23	787.50	783.64
	3+20.00	22+85.87 'CTH M'	33.49 'LT'	783.62	783.62	783.62

NOTE: STATIONS & OFFSET DISTANCES ARE TO FRONT FACE OF WALL.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	360
SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-44-18	SF	3051
	NON-BID ITEMS		
	PREFORMED JOINT FILLER	SIZE	3/4"
	NON-BITUMINOUS JOINT SEALER	SIZE	1"
	EXPANDED POLYSTYRENE	SIZE	1"
	CORK FILLER	SIZE	1"

CURVE DATA

STH 15: EB-9
P.I. = 368+34.14
△ = 32°34'40"
D = 2°48'31"
T = 596.11
L = 1159.92
R = 2040.00
S.E. = VARIES
P.C. = 362+38.03
P.T. = 373+97.95

STH 15: WB-9
P.I. = 368+51.67
△ = 32°34'40"
D = 2°43'42"
T = 613.64
L = 1194.04
R = 2100.00
S.E. = VARIES
P.C. = 362+38.03
P.T. = 373+97.95 (AHEAD)
374+32.06 (BACK)

CTH M EXISTING ELEVATIONS

STATION	℄ ELEVATION
20+00.00	791.18
20+25.00	790.78
20+50.00	790.39
20+75.00	790.01
21+00.00	789.67
21+25.00	789.36
21+50.00	789.07
21+75.00	788.75
22+00.00	788.42

NOTE: EXISTING ELEVATIONS PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-18

DRAWN BY SEW | PLANS CK'D. SAD

QUANTITIES, WALL DATA & PROFILES

SHEET 2

411

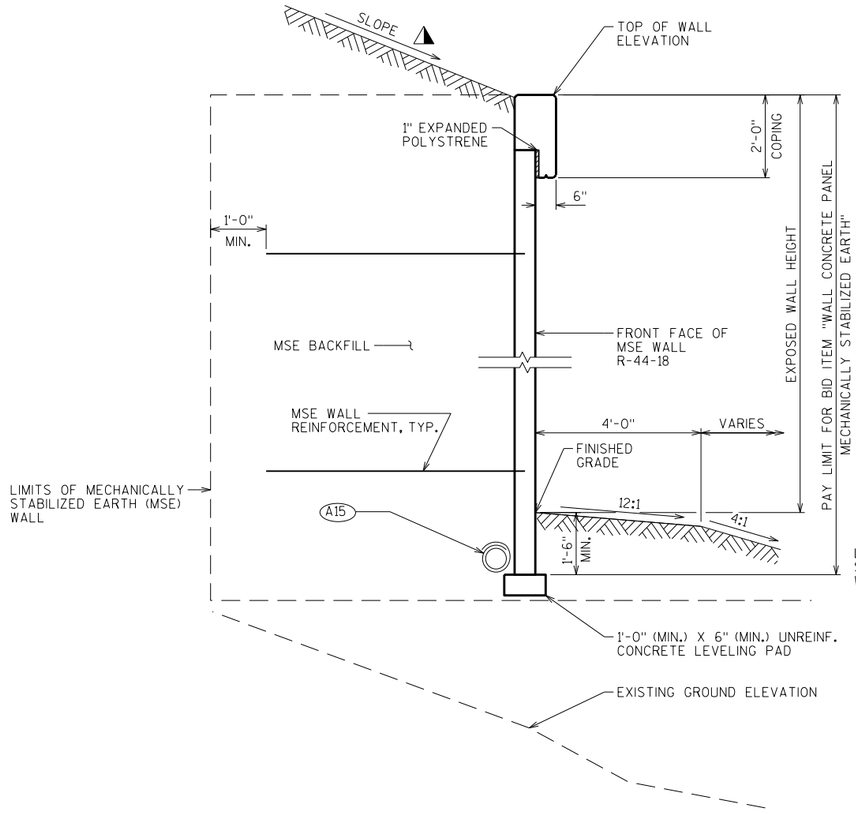
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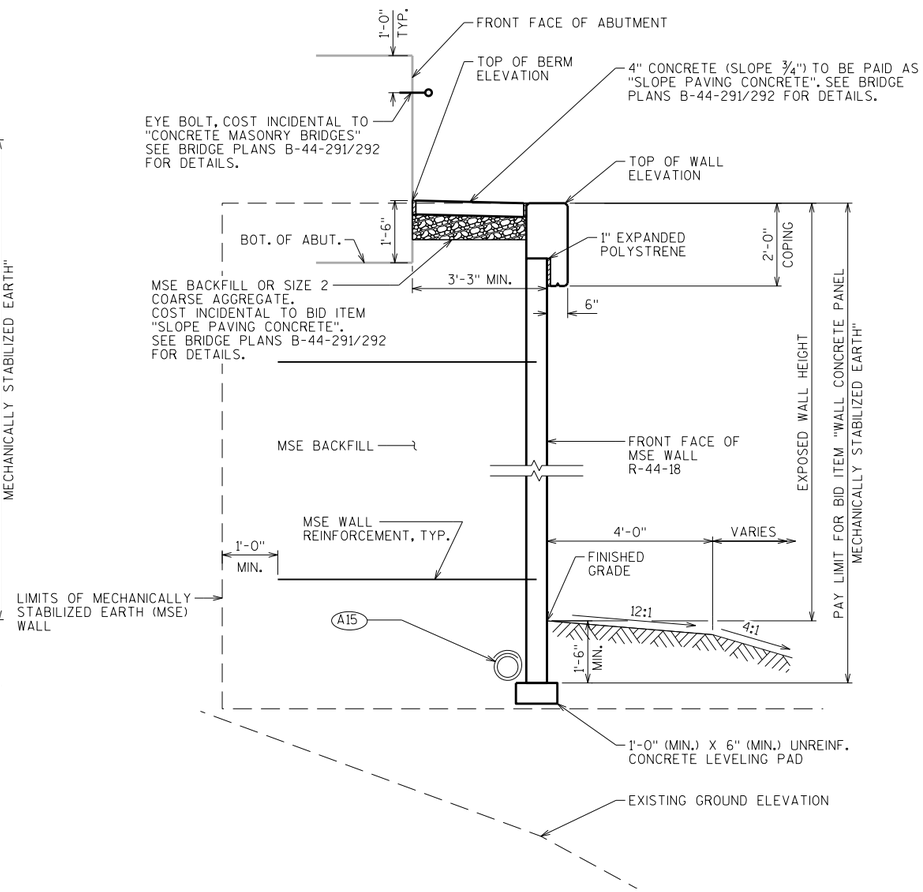
STATE PROJECT NUMBER

1146-75-71



TYPICAL MSE WALL SECTION WITH NO ABUTMENT

LOOKING NORTH

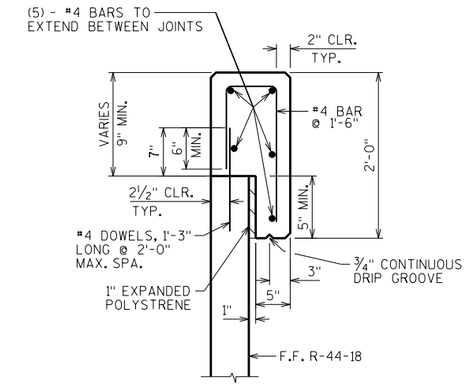


TYPICAL MSE WALL SECTION AT ABUTMENT

LOOKING NORTH

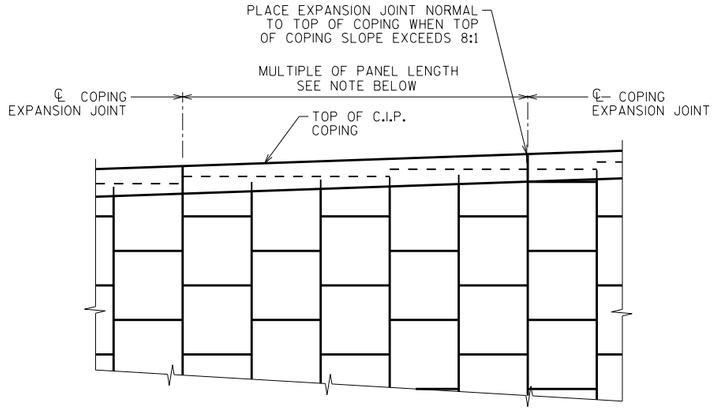
(A15) PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED.

SLOPE BEHIND MSE WALL VARIES. SEE ROADWAY PLANS FOR MORE INFORMATION.



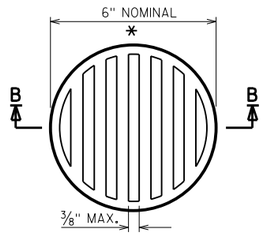
CAST-IN-PLACE CONCRETE COPING DETAIL

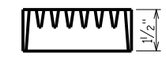
NAME PLATE DETAIL



NOTE:
ALL JOINTS SHALL BE LOCATED AS SHOWN ON THE WALL ELEVATIONS AND MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

C.I.P. CONCRETE COPING PARTIAL ELEVATION





SECTION B-B

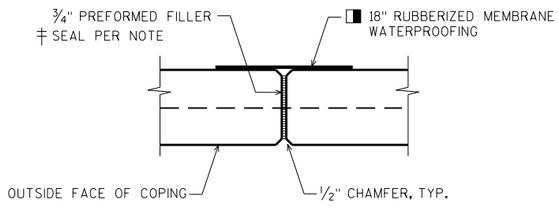
RODENT SCREEN DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SCREEN, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SCREEN SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SCREEN TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SCREEN SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH SHEET METAL SCREWS.

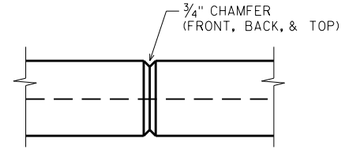
‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)



COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

◨ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-18

DRAWN BY SEW | PLANS CK'D. SAD

WALL DETAILS

SHEET 3

412

SCALE = 5.33

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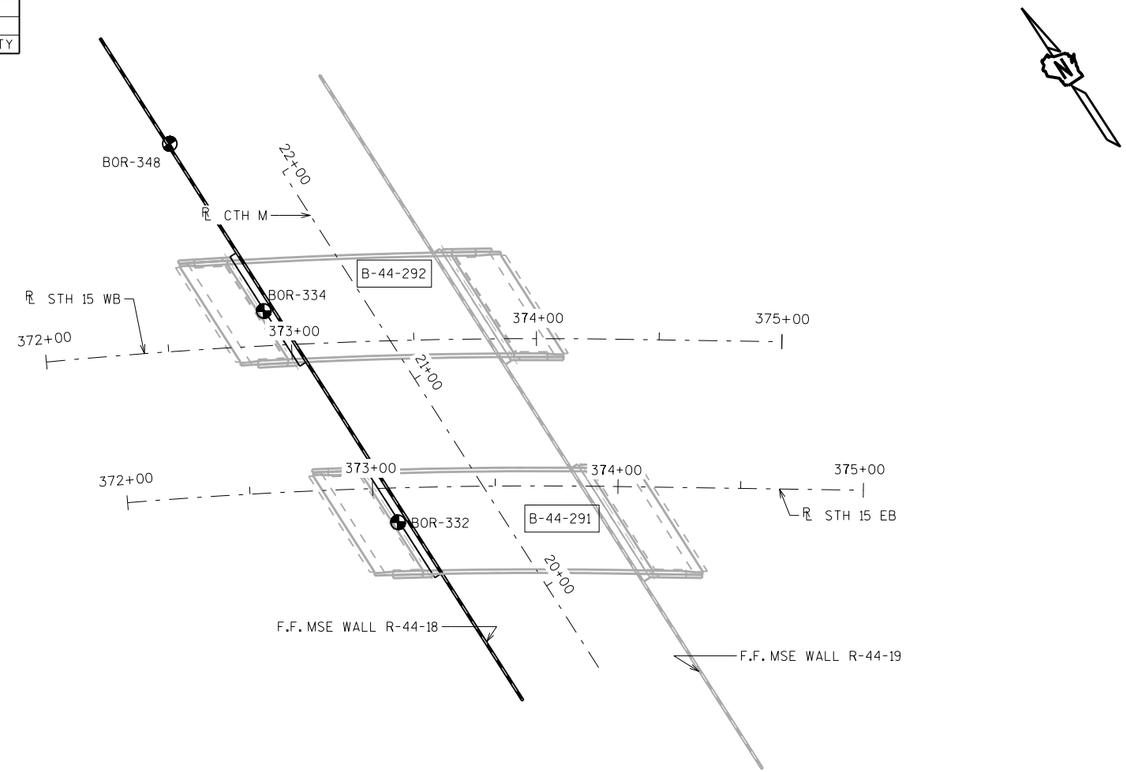
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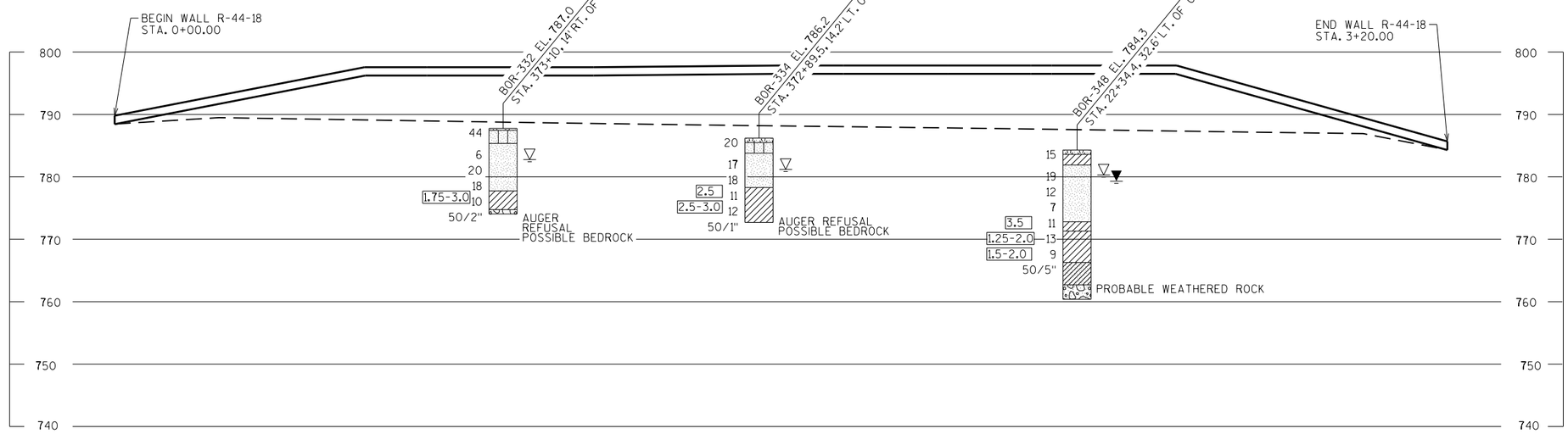
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
332	2/27/2014	592755	767493
334	2/27/2014	592857	767494
348	2/27/2014	592935	767499

BORINGS COMPLETED BY: GESTRA

REPORT COMPLETED BY: CH2M HILL

ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY





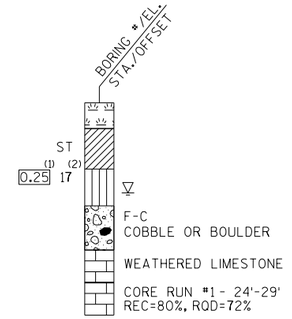
STATE PROJECT NUMBER

1146-75-71

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-18

DRAWN BY TLP/SEW | PLANS CK'D. SAD

SUBSURFACE EXPLORATION

SHEET 4

413

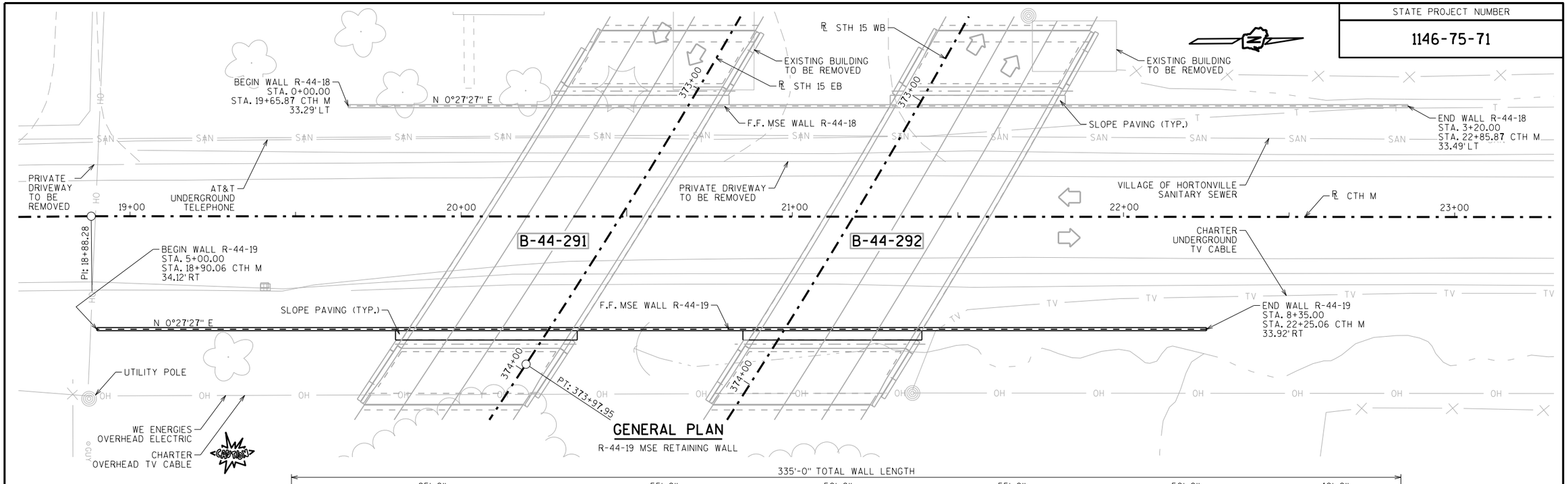
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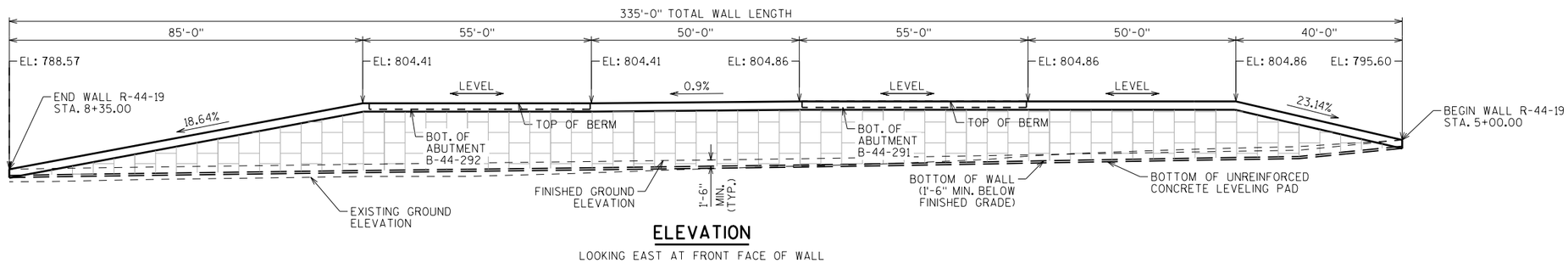
STATE PROJECT NUMBER

1146-75-71



GENERAL PLAN

R-44-19 MSE RETAINING WALL



ELEVATION

LOOKING EAST AT FRONT FACE OF WALL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

THE COST OF FURNISHING AND PLACING MSE BACKFILL WITHIN THE REINFORCED SOIL ZONE IS TO BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALLS.

THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF RETAINING WALLS R-44-18/19 WITH THE ABUTMENTS OF BRIDGES B-44-291/292.

THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO THE TOP OF THE LEVELING PAD, SET AT A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE. WALL AREAS CONSTRUCTED OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT.

THE QUANTITY OF CONCRETE MASONRY, REINFORCING STEEL, AND RUBBERIZED MEMBRANE WATERPROOFING FOR THE CAST-IN-PLACE COPING, IS PAID FOR UNDER THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE PLANS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL SHALL BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET AND THE GEOMETRY TABLE ON SHEET 2.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MSE

MATERIAL PROPERTIES:

CONCRETE MASONRY (COPING) ———— f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 P.S.I.

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES, WALL DATA & PROFILES
3. WALL DETAILS
4. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS:

STACIE WEIS (608) 261-6109

DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION — BUREAU OF STRUCTURES

ACCEPTED DMB 01/06/21

CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-44-19

MSE WALL ALONG B-44-291/292 EAST ABUTMENTS

COUNTY	VILLAGE
OUTAGAMIE	HORTONVILLE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
SEW	SAD	SEW	SAD

GENERAL PLAN

SHEET 1 OF 4

414

I.D. 1176-75-000 DATE: JAN. 2021

SCALE = 15.00

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8

STATE PROJECT NUMBER

1146-75-71

SOIL PARAMETERS

SOIL DESCRIPTIONS	FRICTION ANGLE (DEGREES)	EFFECTIVE COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL BEHIND THE WALL IN THE REINFORCING ZONE	30	0	120
FILL, GRANULAR BEHIND AND BELOW THE REINFORCING ZONE	31	0	120
BORING B-333, STA. 6+40			
NEW FILL EL. 812.0 TO EL. 791.0	30	0	125
MEDIUM DENSE SAND EL. 791.0 TO EL. 780.0	34	0	128
VERY DENSE SAND AND GRAVEL EL. 780.0 TO EL. 772.0	36	0	135
WEATHERED ROCK/BEDROCK EL. 772.0 AND BELOW	45	0	150
BORING B-335, B-349 STA. 7+40			
NEW FILL EL. 812.0 TO EL. 786.0	30	0	125
MEDIUM DENSE SAND EL. 786.0 TO EL. 781.0	32	0	128
VERY STIFF CLAY EL. 781.0 TO EL. 775.0	32	100	140
WEATHERED ROCK/BEDROCK EL. 775.0 AND BELOW	45	0	150

WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS		
WALL HEIGHT (FEET) [1]	15.2	16.0
EXPOSED WALL HEIGHT (FEET)	13.7	14.5
MINIMUM LENGTH OF REINFORCEMENT (FEET) [3]	14.8	17.6
WALL STATION	6+40	7+40
BORING USED	B-333	B-335, B349
CAPACITY TO DEMAND RATIO (CDR) [4]		
SLIDING (CDR > 1.0)	1.35	1.49
ECCENTRICITY (CDR > 1.0)	>10	>10
OVERALL STABILITY (CDR > 1.0)	1.01	1.00
BEARING RESISTANCE (CDR > 1.0)	3.82	4.07
FACTORED BEARING RESISTANCE (KSF)	15.6	18.3

NOTES:
1. THE WALL HEIGHT INCLUDES AN EMBEDMENT OF 1.5 FEET.
2. THE WALL STABILITY EVALUATION INCLUDED A SURCHARGE LOAD THAT WAS EQUAL TO THE WEIGHT OF THE SOIL BEHIND THE ABUTMENT.
3. THE LENGTH OF REINFORCEMENT IS THE MINIMUM REQUIRED LENGTH.
4. CDR REQUIREMENTS AND LOAD AND RESISTANCE FACTORS ARE PRESENTED IN CHAPTER 14 OF THE BRIDGE MANUAL.
5. NA = NOT APPLICABLE, GLOBAL STABILITY WAS EVALUATED AT THE CRITICAL WALL LOCATION.
6. FINAL DESIGN FOR INTERNAL STABILITY, EXTERNAL SLIDING, AND ECCENTRICITY AT OTHER WALL STATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR'S WALL DESIGNER.

GEOMETRY TABLE

SEGMENT	WALL STATION	℄ CTH M STATION	OFFSET TO F.F. WALL	TOP OF WALL ELEV.	FINISHED GRADE ELEV.	EXISTING GRADE ELEV.
A	5+00.00	18+90.06 'CTH M'	34.12 'RT'	795.60	795.60	795.60
	5+25.00	19+15.06 'CTH M'	34.11 'RT'	800.65	793.13	794.01
B	5+40.00	19+30.06 'CTH M'	34.10 'RT'	804.86	792.90	793.65
	5+50.00	19+40.06 'CTH M'	34.09 'RT'	804.86	792.73	793.39
	5+75.00	19+65.06 'CTH M'	34.08 'RT'	804.86	792.31	792.52
C	5+90.00	19+80.06 'CTH M'	34.07 'RT'	804.86	792.04	791.73
	6+00.00	19+90.06 'CTH M'	34.06 'RT'	804.86	791.85	790.92
	6+25.00	20+15.06 'CTH M'	34.05 'RT'	804.86	791.41	789.84
D	6+45.00	20+35.06 'CTH M'	34.03 'RT	804.86	791.09	789.32
	6+50.00	20+40.06 'CTH M'	34.03 'RT'	804.82	791.03	789.20
	6+75.00	20+65.06 'CTH M'	34.02 'RT'	804.59	790.70	788.43
E	6+95.00	20+85.06 'CTH M'	34.00 'RT'	804.41	790.43	787.72
	7+00.00	20+90.06 'CTH M'	34.00 'RT'	804.41	790.37	787.53
	7+25.00	21+15.06 'CTH M'	33.99 'RT'	804.41	790.07	786.85
F	7+50.00	21+40.06 'CTH M'	33.97 'RT'	804.41	789.77	786.83
	7+75.00	21+65.06 'CTH M'	33.95 'RT'	799.75	789.45	786.47
	8+00.00	21+90.06 'CTH M'	33.94 'RT'	795.09	789.11	786.15
	8+25.00	22+15.06 'CTH M'	33.92 'RT'	790.43	788.76	785.63
	8+35.00	22+25.06 'CTH M'	33.92 'RT'	788.57	788.57	785.58

NOTE: STATIONS & OFFSET DISTANCES ARE TO FRONT FACE OF WALL.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	375
SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-44-19	SF	4210
	NON-BID ITEMS		
	PREFORMED JOINT FILLER	SIZE	3/4"
	NON-BITUMINOUS JOINT SEALER	SIZE	1"
	EXPANDED POLYSTYRENE	SIZE	1"
	CORK FILLER	SIZE	1"

CURVE DATA

STH 15: EB-9

P.I. = 368+34.14
△ = 32°34'40"
D = 2°48'31"
T = 596.11
L = 1159.92
R = 2040.00
S.E. = VARIES
P.C. = 362+38.03
P.T. = 373+97.95

STH 15: WB-9

P.I. = 368+51.67
△ = 32°34'40"
D = 2°43'42"
T = 613.64
L = 1194.04
R = 2100.00
S.E. = VARIES
P.C. = 362+38.03
P.T. = 373+97.95 (AHEAD)
374+32.06 (BACK)

CTH M EXISTING ELEVATIONS

STATION	℄ ELEVATION
20+00.00	791.18
20+25.00	790.78
20+50.00	790.39
20+75.00	790.01
21+00.00	789.67
21+25.00	789.36
21+50.00	789.07
21+75.00	788.75
22+00.00	788.42

NOTE: EXISTING ELEVATIONS PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-19

DRAWN BY SEW | PLANS CK'D. SAD

QUANTITIES, WALL DATA & PROFILES

SHEET 2

415

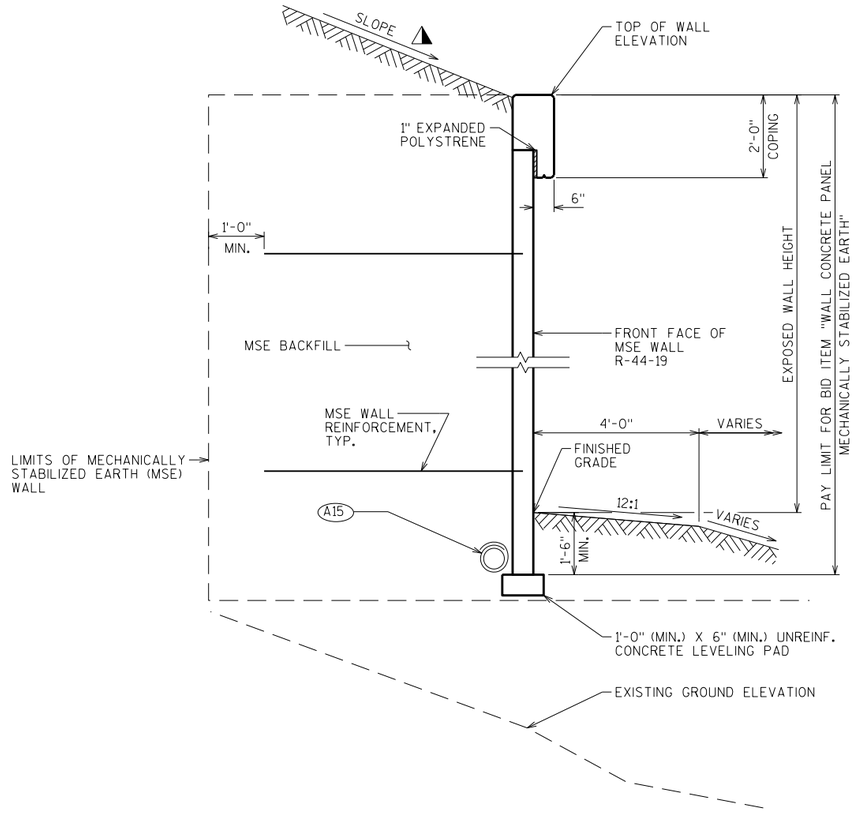
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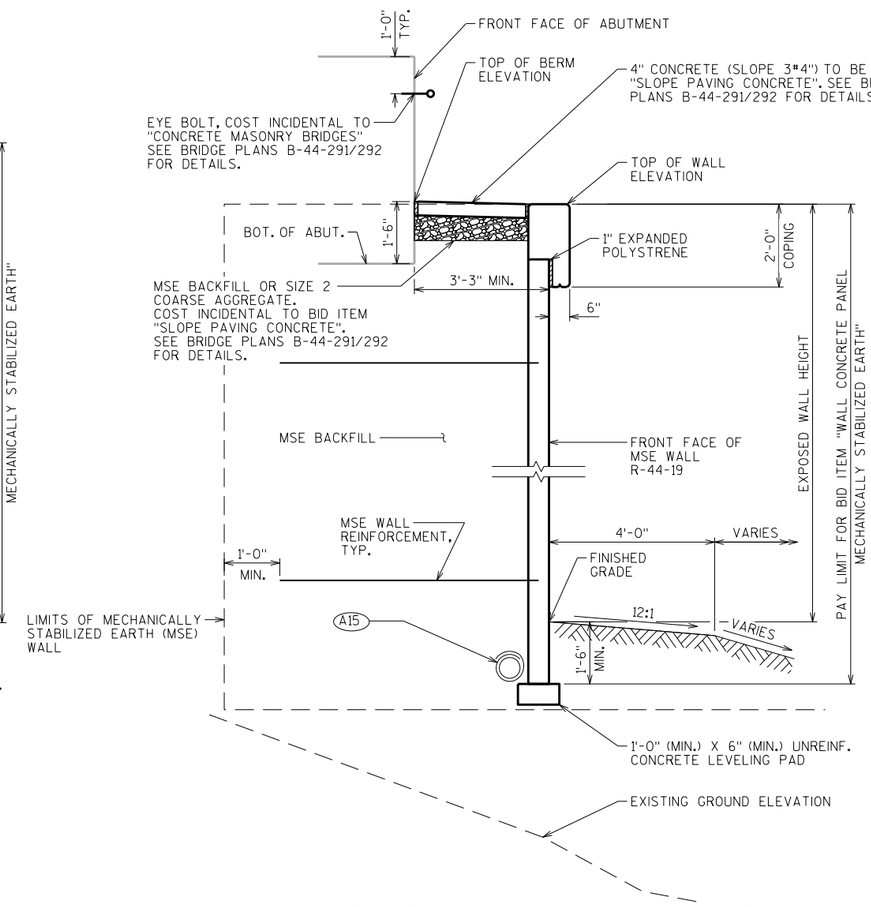
STATE PROJECT NUMBER

1146-75-71



TYPICAL MSE WALL SECTION WITH NO ABUTMENT

LOOKING NORTH

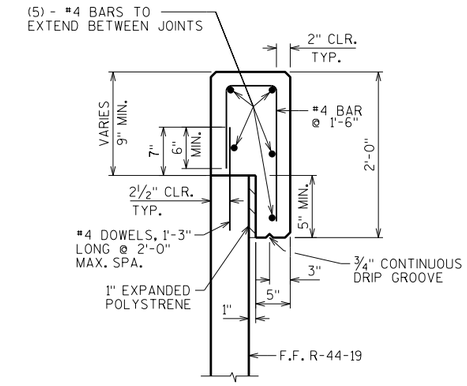


TYPICAL MSE WALL SECTION AT ABUTMENT

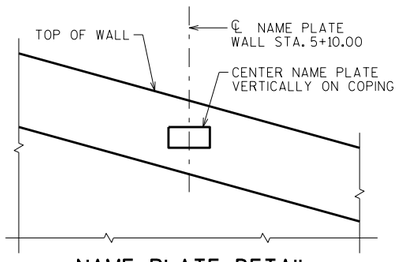
LOOKING NORTH

(A15) PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED.

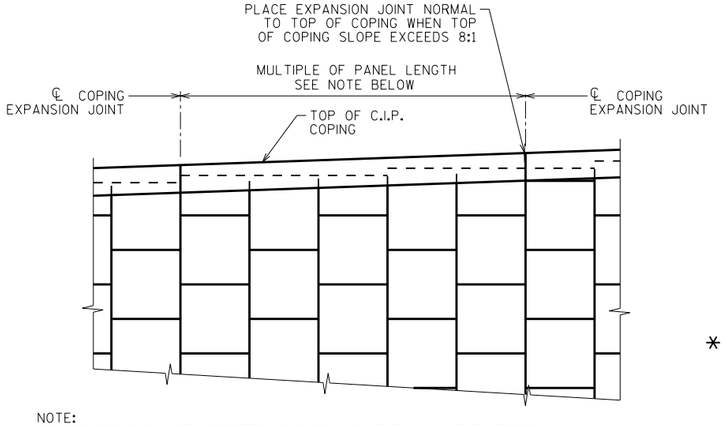
SLOPE BEHIND MSE WALL VARIES. SEE ROADWAY PLANS FOR MORE INFORMATION.



CAST-IN-PLACE CONCRETE COPING DETAIL

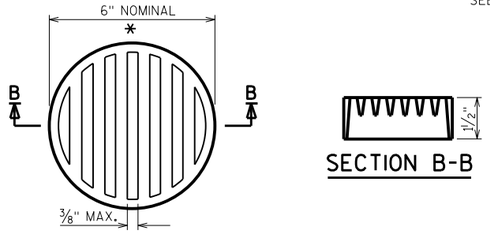


NAME PLATE DETAIL



NOTE:
ALL JOINTS SHALL BE LOCATED AS SHOWN ON THE WALL ELEVATIONS AND MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

C.I.P. CONCRETE COPING PARTIAL ELEVATION



SECTION B-B

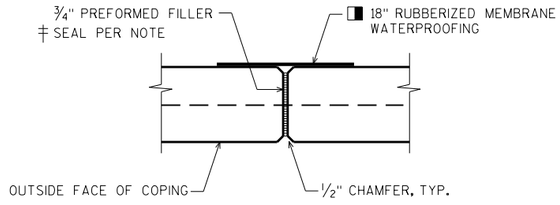
RODENT SCREEN DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SCREEN, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SCREEN SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SCREEN TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SCREEN SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH SHEET METAL SCREWS.

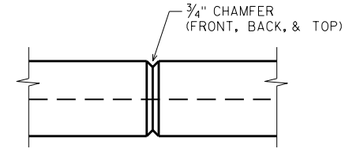
‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)



COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-19

DRAWN BY	CK'D.
SEW	SAD

WALL DETAILS

SHEET 3

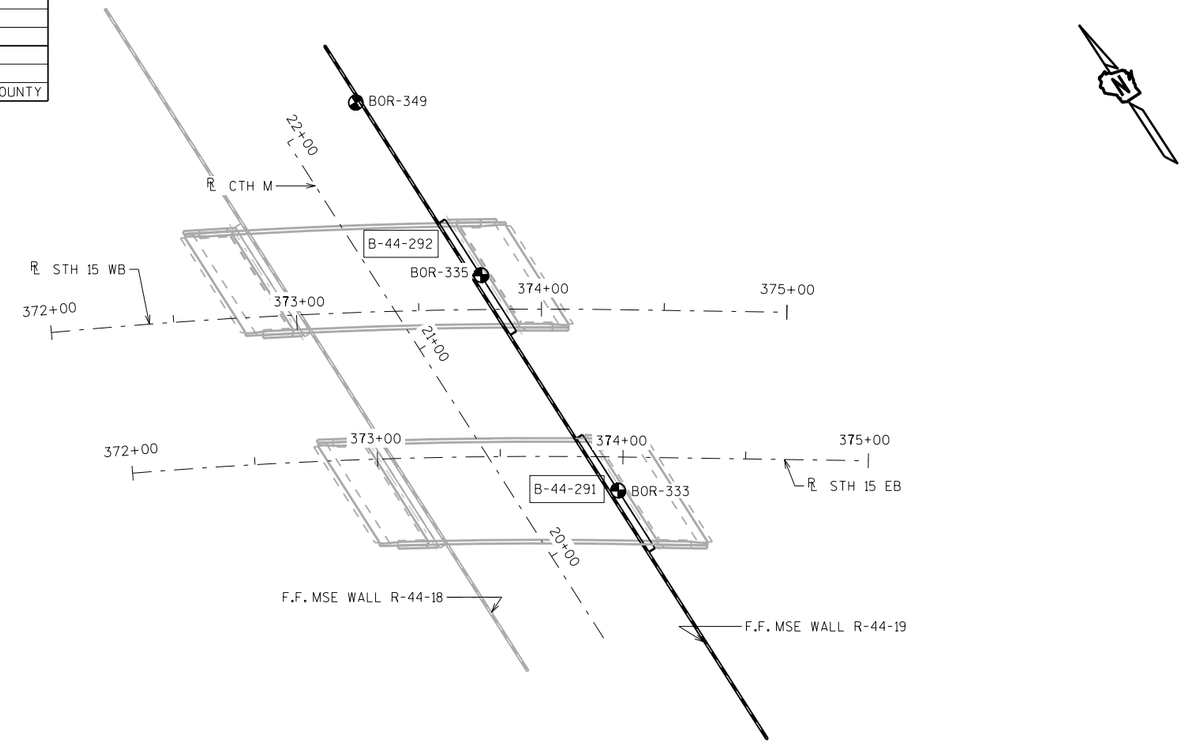
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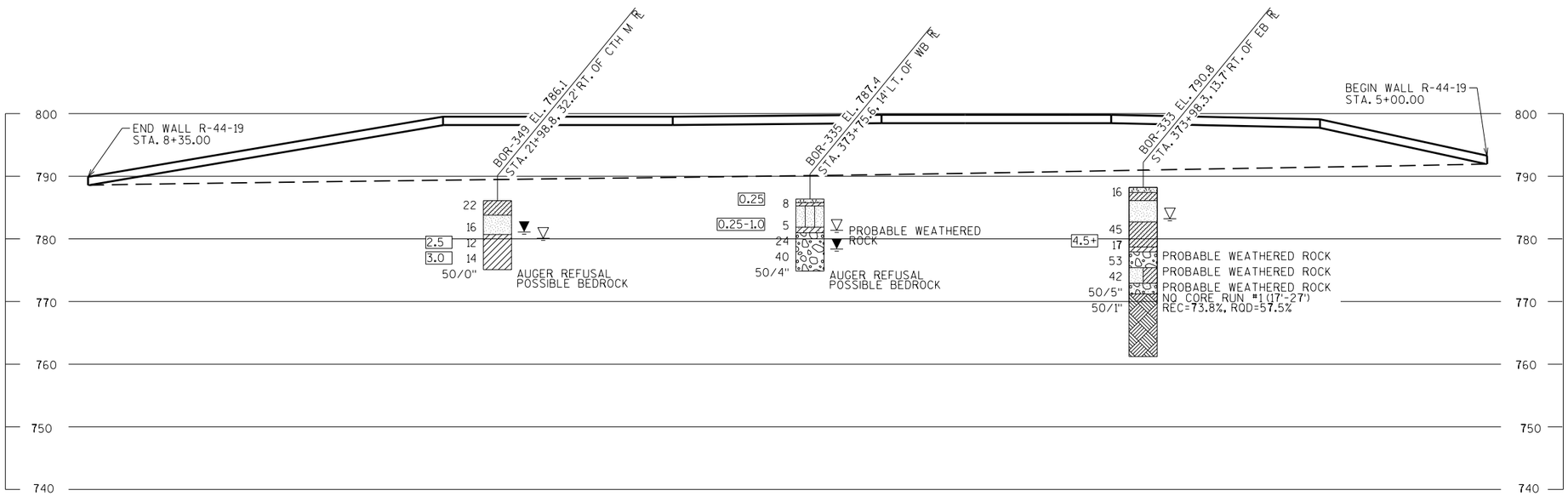
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BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
333	4/01/2014	592708	767567
335	2/26/2014	592812	767568
349	2/27/2014	592900	767565
BORINGS COMPLETED BY: GESTRA			
REPORT COMPLETED BY: CH2M HILL			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY			





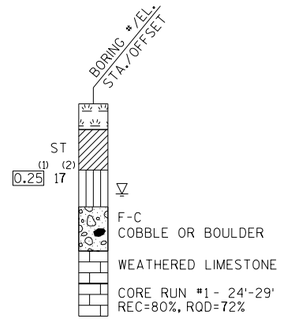
STATE PROJECT NUMBER

1146-75-71

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-19

DRAWN BY TLP/SEW | PLANS CK'D. SAD

SUBSURFACE EXPLORATION

SHEET 4

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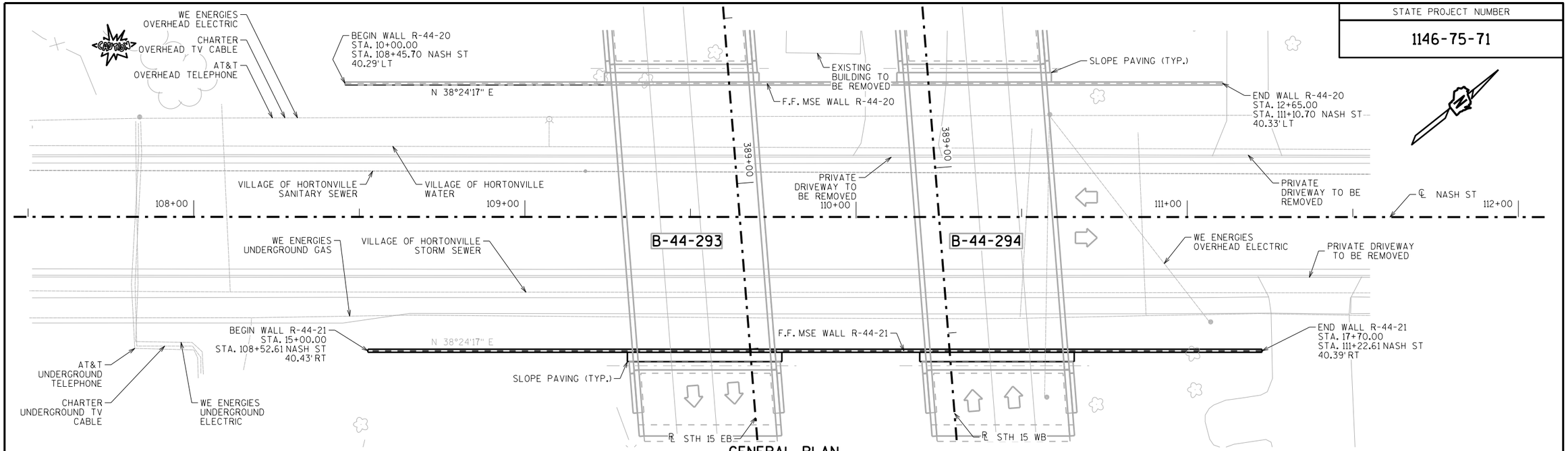
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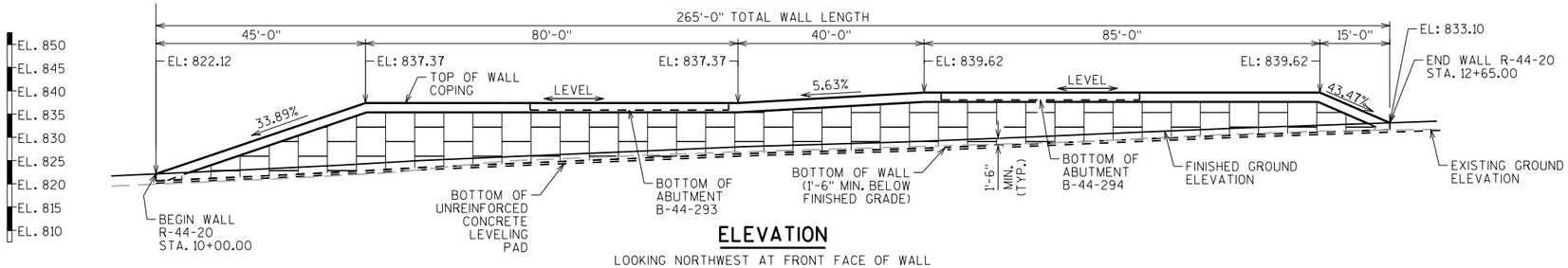
STATE PROJECT NUMBER

1146-75-71



GENERAL PLAN

R-44-20 MSE RETAINING WALL



ELEVATION

LOOKING NORTHWEST AT FRONT FACE OF WALL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE COST OF FURNISHING AND PLACING MSE BACKFILL WITHIN THE REINFORCED SOIL ZONE IS TO BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALLS.

THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF RETAINING WALLS R-44-20/21 WITH THE ABUTMENTS OF BRIDGES B-44-293/294.

THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO THE TOP OF THE LEVELING PAD, SET AT A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE. WALL AREAS CONSTRUCTED OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT.

THE QUANTITY OF CONCRETE MASONRY, REINFORCING STEEL, AND RUBBERIZED MEMBRANE WATERPROOFING FOR THE CAST-IN-PLACE COPING, IS PAID FOR UNDER THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE PLANS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL SHALL BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET AND THE GEOMETRY TABLE ON SHEET 2.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH

MATERIAL PROPERTIES:

CONCRETE MASONRY (COPING) ——— f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT, GRADE 60 ——— fy = 60,000 P.S.I.

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES, WALL DATA & PROFILES
3. WALL DETAILS
4. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS:

JOHN SENDOR (608) 266-5163

DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED DMB 01/07/21

CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-44-20

MSE WALL ALONG B-44-293/294 WEST ABUTMENTS

COUNTY	VILLAGE
OUTAGAMIE	HORTONVILLE

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
JJS	SEW	JJS	SEW

GENERAL PLAN

SHEET 1 OF 4

418

I.D. 1146-75-00P DATE: JAN. 2021

SCALE = 15.00

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STATE PROJECT NUMBER

1146-75-71

SOIL PARAMETERS

SOIL DESCRIPTION	FRICTION ANGLE (DEGREES)	EFFECTIVE COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL BEHIND THE WALL IN THE REINFORCING ZONE	30	0	120
FILL, GRANULAR BEHIND AND BELOW THE REINFORCING ZONE	31	0	120
BOR - B-350 - STA. 388+64 - 79.8' RT OF STH 15 EB ℄			
NEW GRANULAR FILL EL. 842.00 TO EL. 821.00	30	0	125
STIFF CLAY EL. 821.00 TO EL. 816.00	30	75	130
VERY DENSE SAND/GRAVEL EL. 816.00 TO EL. 812.00	36	0	135
WEATHERED ROCK/BEDROCK (DOLOMITE) EL. 812.00 AND BELOW	45	0	150
BOR - B-336 - STA. 388+65.5 - 13.8' RT OF STH 15 EB ℄			
NEW GRANULAR FILL EL. 845.00 TO EL. 824.00	30	0	125
VERY STIFF CLAY EL. 824.00 TO EL. 818.00	32	100	135
VERY DENSE SAND EL. 818.00 TO EL. 816.00	36	0	135
WEATHERED ROCK/BEDROCK (DOLOMITE) EL. 816.00 AND BELOW	45	0	150
BOR - B-338 - STA. 388+72.7 - 14.1' LT OF STH 15 WB ℄			
NEW GRANULAR FILL EL. 846.00 TO EL. 828.00	30	0	125
STIFF CLAY EL. 828.00 TO EL. 823.00	30	75	130
VERY DENSE SAND EL. 823.00 TO EL. 819.00	36	0	135
WEATHERED ROCK/BEDROCK (DOLOMITE) EL. 819.00 AND BELOW	45	0	150

WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS			
WALL HEIGHT (FEET)[1]	15.2	12.4	11.5
EXPOSED WALL HEIGHT (FEET)	13.7	10.9	9.8
MINIMUM LENGTH OF REINFORCEMENT (FEET)[3]	9.1[2]	13.4[2]	11.6[2]
LENGTH OF REINFORCEMENT TO HEIGHT RATIO	0.7	0.7	0.7
BORING USED	BOR- 350	BOR- 336	BOR- 338
WALL STATION	10+55	10+90	11+75
CAPACITY TO DEMAND RATIO (CDR)[4]			
SLIDING (CDR > 1.0)	1.07	1.30	1.69
ECCENTRICITY (CDR > 1.0)	1.06	>10	3.40
OVERALL STABILITY (CDR > 1.0)[5]	1.0	1.1	1.1
BEARING RESISTANCE (CDR > 1.0)	2.2	1.65	1.0
FACTORED BEARING RESISTANCE (PSF)	6,600	10,100	3,100

NOTES:
1. WALL HEIGHT INCLUDES AN EMBEDMENT OF 1.5 FEET.
2. THE WALL STABILITY EVALUATION INCLUDED A SURCHARGE LOAD OF 240 PSF AND CONSTRUCTION AND MAINTENANCE LOADS WERE MODELED USING AN UNFACTORED LIVE LOAD OF 100 PSF.
3. THE LENGTH OF REINFORCEMENT IS THE MINIMUM REQUIRED LENGTH AT THAT LOCATION.
4. CDR REQUIREMENTS AND LOAD RESISTANCE FACTORS ARE PRESENTED IN CHAPTER 14 OF THE BRIDGE MANUAL.
5. GLOBAL STABILITY WAS EVALUATED AT THE CRITICAL WALL LOCATION.

GEOMETRY TABLE

WALL STATION	℄ NASH ST. STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.	EXISTING GRADE EL.
10+00.00	108+45.70	40.29'LT	822.12	822.12	819.91
10+25.00	108+70.70	40.29'LT	830.59	823.28	821.00
10+45.00	108+90.70	40.29'LT	837.37	824.34	822.09
10+50.00	108+95.70	40.29'LT	837.37	824.60	822.37
10+75.00	109+20.70	40.30'LT	837.37	825.79	824.89
11+00.00	109+45.70	40.30'LT	837.37	826.85	825.92
11+25.00	109+70.70	40.31'LT	837.37	827.94	826.88
11+50.00	109+95.70	40.31'LT	838.77	828.69	827.60
11+65.00	110+10.70	40.31'LT	839.62	829.21	828.06
11+75.00	110+20.70	40.32'LT	839.62	829.56	828.36
12+00.00	110+45.70	40.32'LT	839.62	830.60	829.08
12+25.00	110+70.70	40.32'LT	839.62	831.68	830.43
12+50.00	110+95.70	40.33'LT	839.62	832.59	831.32
12+65.00	111+10.70	40.33'LT	833.10	833.10	831.56

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	285
SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-44-20	SF	2775
	NON-BID ITEMS		
	NON-BITUMINOUS JOINT SEALER	SIZE	1"
	PREFORMED JOINT FILLER	SIZE	¾"
	EXPANDED POLYSTYRENE	SIZE	1"
	CORK FILLER	SIZE	1"

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-20

DRAWN BY JJS | PLANS CK'D. SEW

QUANTITIES, WALL DATA & PROFILES

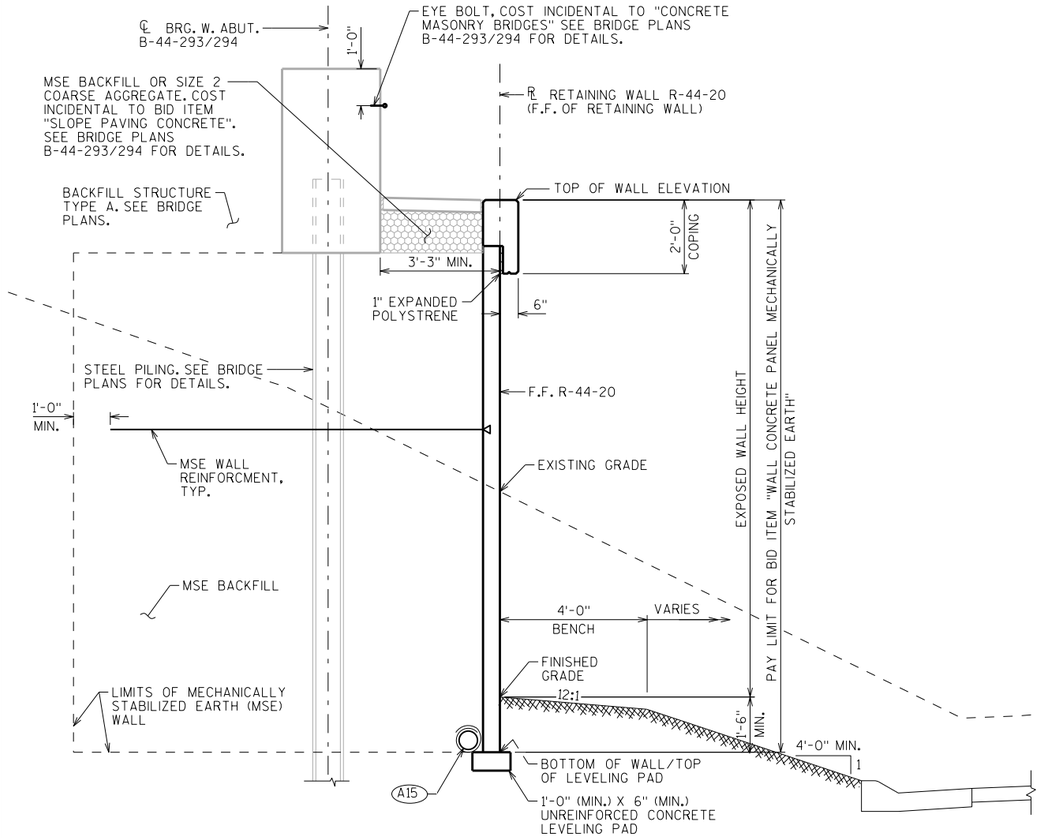
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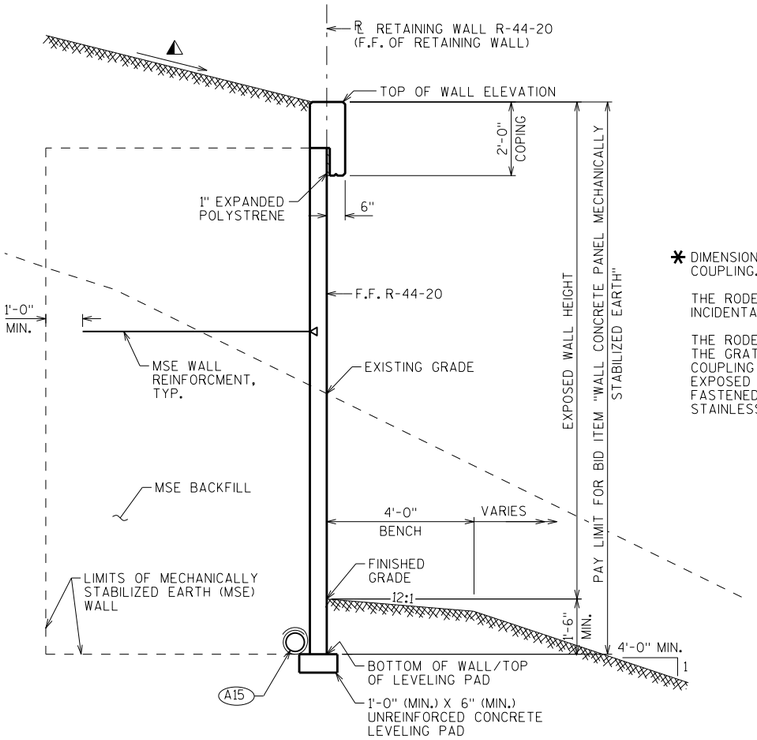
STATE PROJECT NUMBER

1146-75-71



TYPICAL SECTION AT ABUTMENT

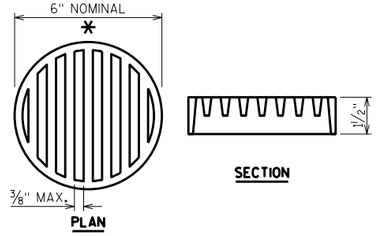
LOOKING NORTHEAST (WALL STATION)
STA. 10+78.00 TO 11+26.00
STA. 11+66.00 TO 12+14.00



TYPICAL SECTION

LOOKING NORTHEAST (WALL STATION)
STA. 10+00.00 TO 10+78.00
STA. 11+26.00 TO 11+66.00
STA. 12+14.00 TO 12+65.00

⚠ SLOPE BEHIND MSE WALL VARIES, SEE ROADWAY PLANS FOR MORE INFORMATION

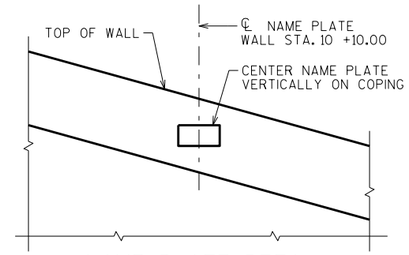


RODENT SHIELD DETAIL

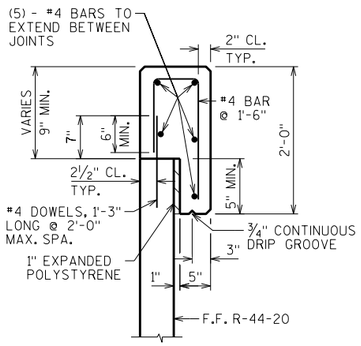
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THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

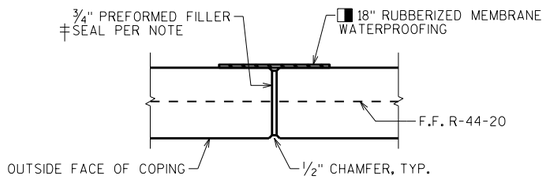
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHEMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



NAME PLATE DETAIL



CAST-IN-PLACE CONCRETE COPING DETAIL

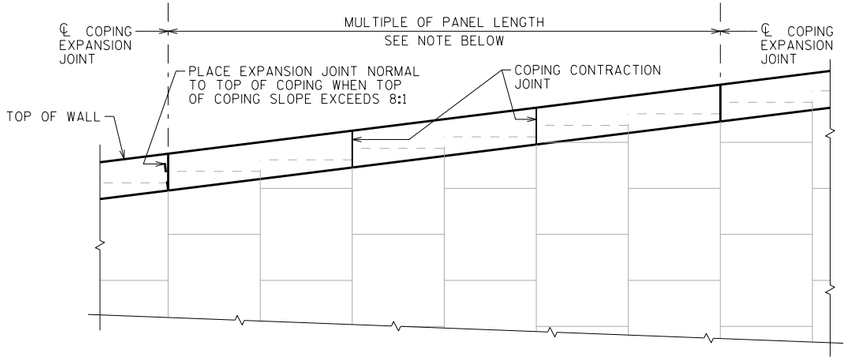


COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

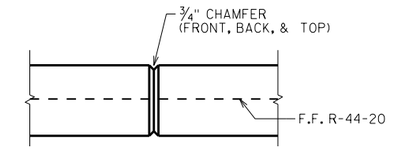
‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

◨ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.



CAST-IN-PLACE COPING PARTIAL ELEVATION

LOOKING AT F.F. WALL



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-20

DRAWN BY JJS | PLANS CK'D. SEW

WALL DETAILS

SHEET 3

420

SCALE = 2.00

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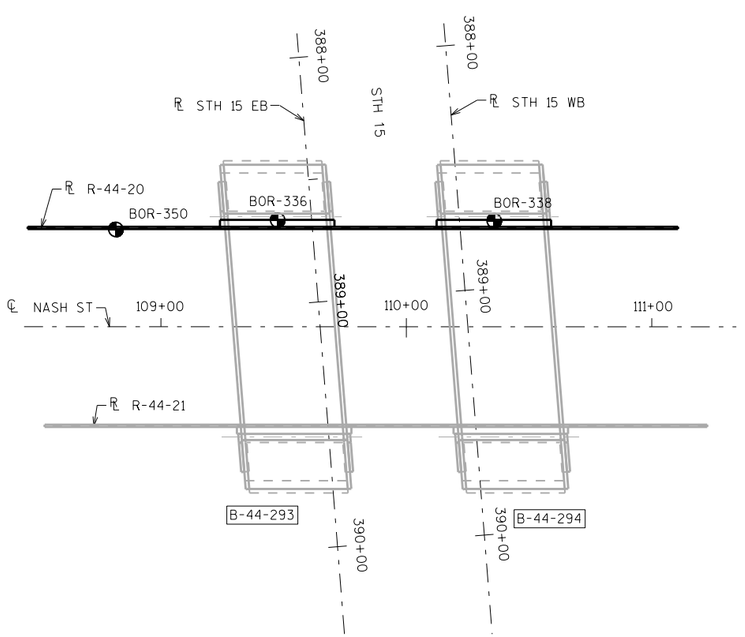
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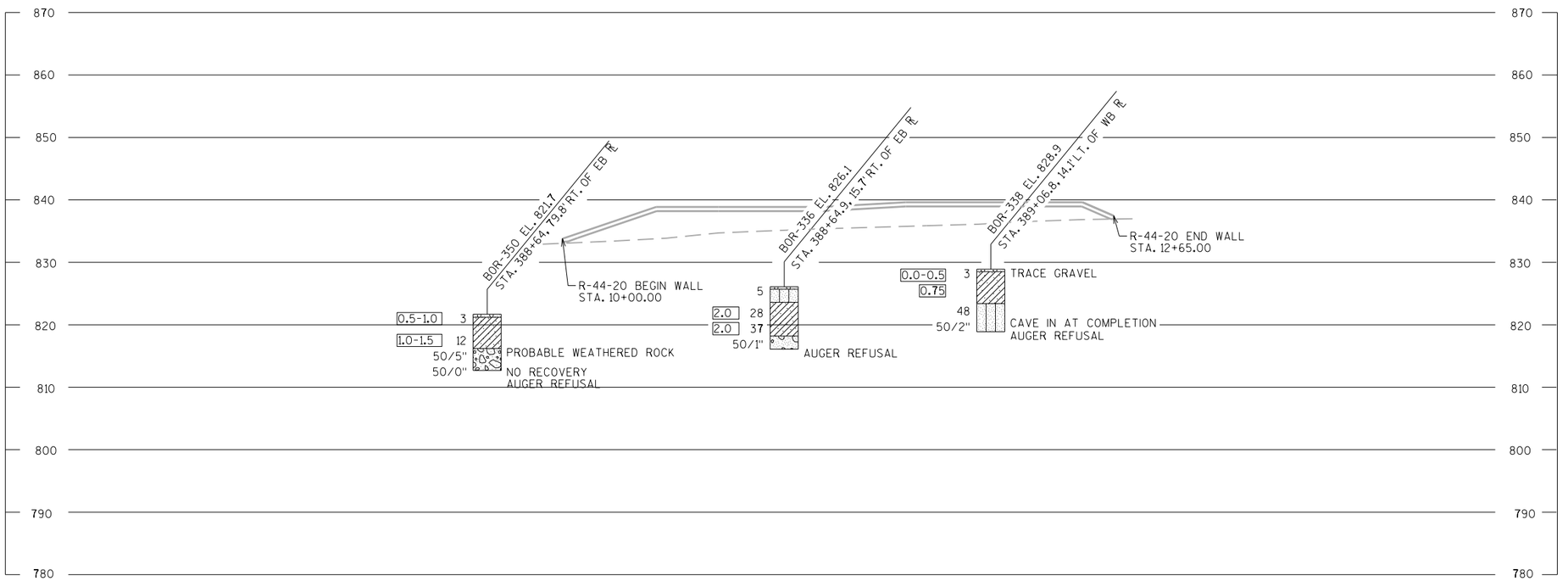
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
336	3/31/2014	591890	768785
338	3/31/2014	591959	768840
350	3/31/2014	591836	768747

BORINGS COMPLETED BY: GESTRA

REPORT COMPLETED BY: CH2M HILL

ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY





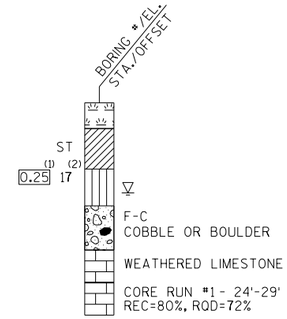
STATE PROJECT NUMBER

1146-75-71

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-20

DRAWN BY TLP/JJS | PLANS CK'D. SEW

SUBSURFACE EXPLORATION

SHEET 4

421

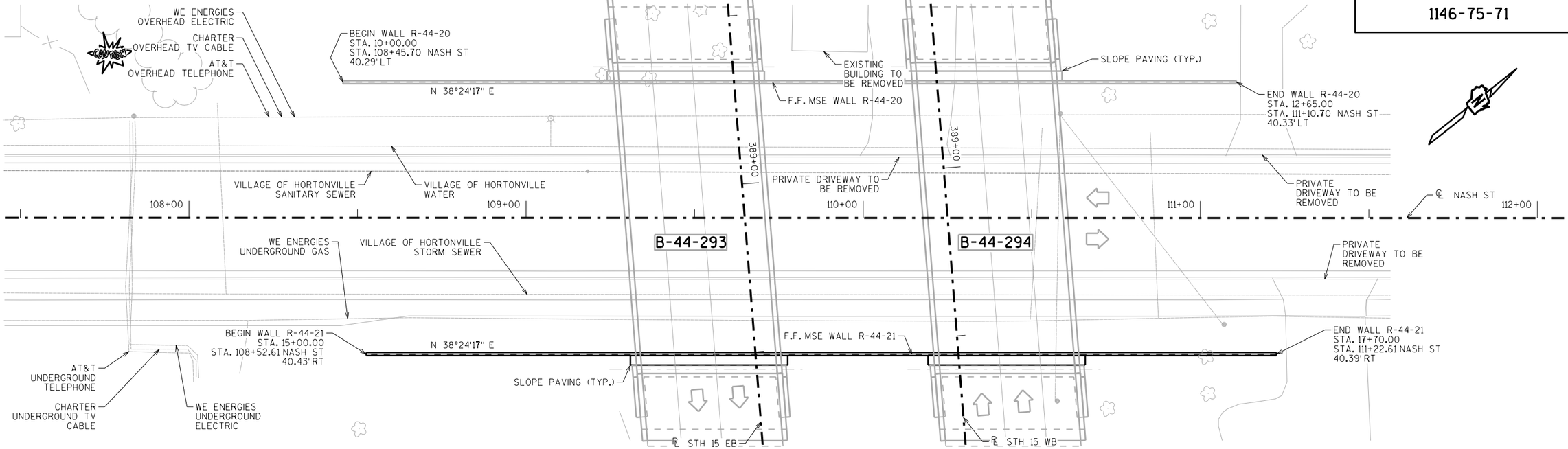
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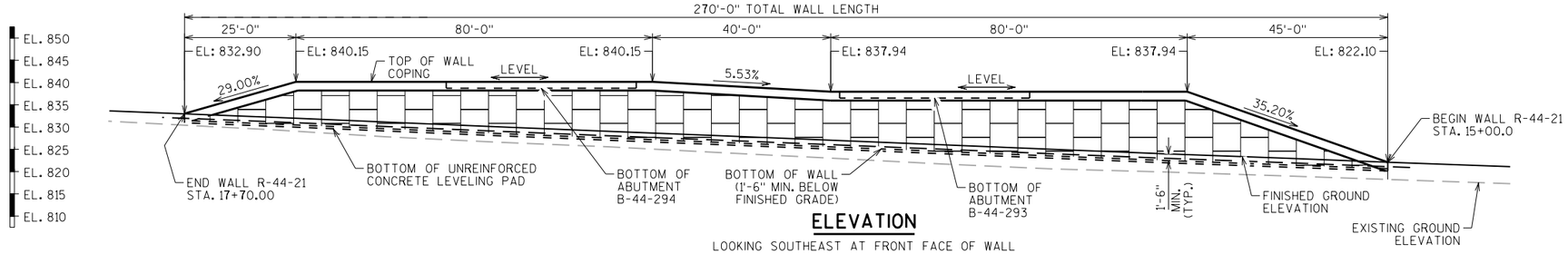
STATE PROJECT NUMBER

1146-75-71



GENERAL PLAN

R-44-21 MSE RETAINING WALL



ELEVATION

LOOKING SOUTHEAST AT FRONT FACE OF WALL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE COST OF FURNISHING AND PLACING MSE BACKFILL WITHIN THE REINFORCED SOIL ZONE IS TO BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALLS.

THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF RETAINING WALLS R-44-20/21 WITH THE ABUTMENTS OF BRIDGES B-44-293/294.

THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO THE TOP OF THE LEVELING PAD, SET AT A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE. WALL AREAS CONSTRUCTED OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT.

THE QUANTITY OF CONCRETE MASONRY, REINFORCING STEEL, AND RUBBERIZED MEMBRANE WATERPROOFING FOR THE CAST-IN-PLACE COPING, IS PAID FOR UNDER THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH.

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE PLANS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL SHALL BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET AND THE GEOMETRY TABLE ON SHEET 2.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH

MATERIAL PROPERTIES:

CONCRETE MASONRY (COPING) ——— f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT, GRADE 60 ——— fy = 60,000 P.S.I.

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES, WALL DATA & PROFILES
3. WALL DETAILS
4. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS:

JOHN SENDOR (608) 266-5163

DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED DMB 01/06/21

CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-44-21

MSE WALL ALONG B-44-293/294 EAST ABUTMENTS

COUNTY	VILLAGE
OUTAGAMIE	HORTONVILLE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
JJS	SEW	JJS	SEW

GENERAL PLAN

SHEET 1 OF 4

422

I.D. 1146-75-000 DATE: JAN. 2021

SCALE = 15.00

STATE PROJECT NUMBER

1146-75-71

SOIL PARAMETERS

SOIL DESCRIPTION	FRICTION ANGLE (DEGREES)	EFFECTIVE COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL BEHIND THE WALL IN THE REINFORCING ZONE	30	0	120
FILL, GRANULAR BEHIND AND BELOW THE REINFORCING ZONE	31	0	120
BOR - B-351 - STA. 389+41.5 - 118.1' RT OF STH 15 EB ℄			
NEW GRANULAR FILL EL. 846.00 TO EL. 818.00	30	0	125
STIFF CLAY EL. 818.00 TO EL. 813.00	30	75	125
MEDIUM DENSE SAND EL. 813.00 TO EL. 810.00	32	0	125
VERY DENSE SAND EL. 810.00 TO EL. 806.00	36	0	135
WEATHERED ROCK/BEDROCK DOLOMITE EL. 806.00 AND BELOW	45	0	150
BOR - B-337 - STA. 389+52.6 - 14.3' RT OF STH 15 EB ℄			
NEW GRANULAR FILL EL. 846.00 TO EL. 821.00	30	0	125
LOOSE SILT EL. 821.00 TO EL. 816.00	30	0	120
VERY DENSE SAND AND SILT EL. 816.00 TO EL. 811.00	36	0	135
WEATHERED ROCK/BEDROCK-DOLOMITE EL. 811.00 AND BELOW	45	0	150
BOR - B-339 - STA. 389+59.8 - 13.6' LT OF STH 15 WB ℄			
NEW GRANULAR FILL EL. 845.00 TO EL. 825.00	30	0	125
STIFF CLAY EL. 825.00 TO EL. 821.00	30	75	125
VERY DENSE SAND EL. 821.00 TO EL. 817.00	36	0	135
WEATHERED ROCK/BEDROCK-DOLOMITE EL. 817.00 AND BELOW	45	0	150

WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS			
WALL HEIGHT (FEET)[1]	15.1	13.7	12.5
EXPOSED WALL HEIGHT (FEET)	13.6	12.2	11
MINIMUM LENGTH OF REINFORCEMENT (FEET)[3]	10.6[2]	15.3[2]	12.3[2]
LENGTH OF REINFORCEMENT TO HEIGHT RATIO	0.7	0.7	0.7
BORING USED	BOR- 351	BOR- 337	BOR- 339
WALL STATION	15+55	15+90	16+70
CAPACITY TO DEMAND RATIO (CDR)[4]			
SLIDING (CDR > 1.0)	1.05	1.40	1.25
ECCENTRICITY (CDR > 1.0)	1.30	7.25	4.16
OVERALL STABILITY (CDR > 1.0)[5]	1.07	1.11	1.00
BEARING RESISTANCE (CDR > 1.0)	1.73	2.83	3.14
FACTORED BEARING RESISTANCE (PSF)	7,800	11,500	11,300

NOTES:
1. WALL HEIGHT INCLUDES AN EMBEDMENT OF 1.5 FEET.
2. THE WALL STABILITY EVALUATION INCLUDED A SURCHARGE LOAD OF 240 PSF AND CONSTRUCTION AND MAINTENANCE LOADS WERE MODELED USING AN UNFACTORED LIVE LOAD OF 100 PSF.
3. THE LENGTH OF REINFORCEMENT IS THE MINIMUM REQUIRED LENGTH AT THAT LOCATION
4. CDR REQUIREMENTS AND LOAD RESISTANCE FACTORS ARE PRESENTED ARE PRESENTED IN CHAPTER 14 OF THE BRIDGE MANUAL.
5. GLOBAL SLOPE STABILITY WAS EVALUATED AT THE CRITICAL WALL LOCATION

GEOMETRY TABLE

WALL STATION	℄ NASH ST. STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.	EXISTING GRADE EL.
15+00.00	108+52.61	40.43' RT	822.10	822.10	818.23
15+25.00	108+77.61	40.43' RT	830.90	823.08	819.10
15+45.00	108+97.61	40.43' RT	837.94	823.81	819.75
15+50.00	109+02.61	40.42' RT	837.94	823.98	819.91
15+75.00	109+27.61	40.42' RT	837.94	824.99	820.59
16+00.00	109+52.61	40.42' RT	837.94	826.02	821.71
16+25.00	109+77.61	40.41' RT	837.94	827.05	823.02
16+50.00	110+02.61	40.41' RT	839.32	828.06	824.27
16+65.00	110+17.61	40.41' RT	840.15	828.66	825.05
16+75.00	110+27.61	40.40' RT	840.15	829.05	825.57
17+00.00	110+52.61	40.40' RT	840.15	830.07	826.61
17+25.00	110+77.61	40.39' RT	840.15	831.12	827.82
17+45.00	110+97.61	40.39' RT	840.15	831.98	829.06
17+50.00	111+02.61	40.39' RT	838.70	832.18	829.37
17+70.00	111+22.61	40.39' RT	832.90	832.90	830.68

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	290
SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-44-21	SF	3063
	NON-BID ITEMS		
	NON-BITUMINOUS JOINT SEALER	SIZE	1"
	PREFORMED JOINT FILLER	SIZE	¾"
	EXPANDED POLYSTYRENE	SIZE	1"
	CORK FILLER	SIZE	1"

8

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-21

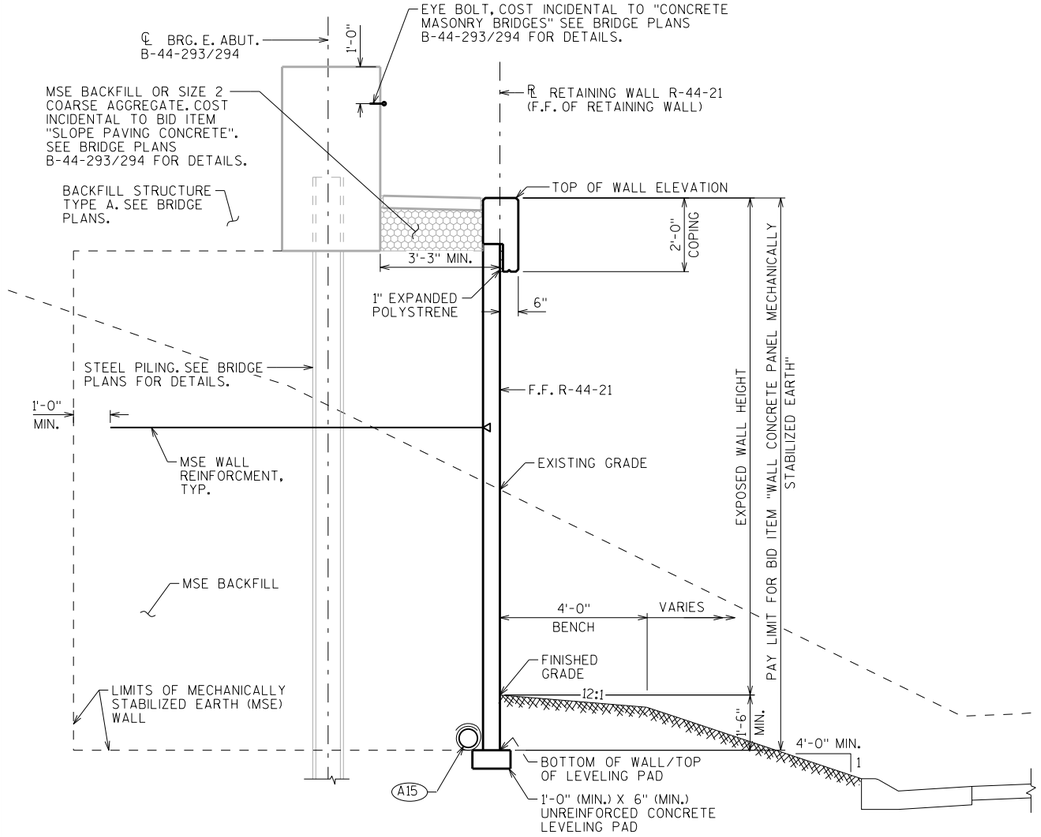
DRAWN BY JJS | PLANS CK'D. SEW

QUANTITIES, WALL DATA & PROFILES

SHEET 2

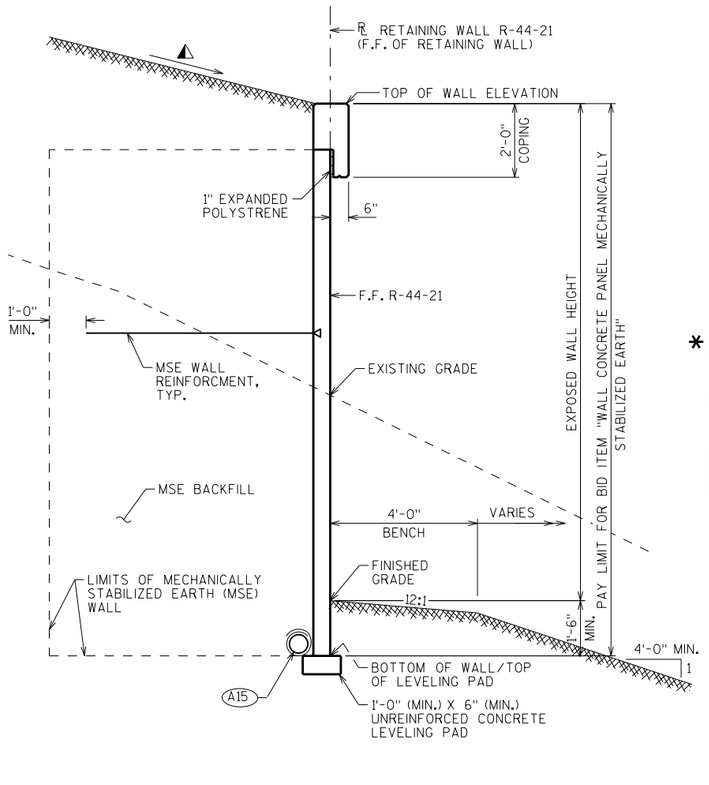
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SCALE = 1.00



TYPICAL SECTION AT ABUTMENT

LOOKING SOUTHEAST (WALL STATION)
STA. 15+78.36 TO 16+25.01
STA. 16+66.63 TO 17+13.28



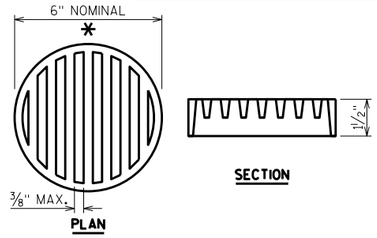
TYPICAL SECTION

LOOKING SOUTHEAST (WALL STATION)
STA. 15+00.00 TO 15+78.36
STA. 16+25.01 TO 16+66.63
STA. 17+13.28 TO 17+70.00

⚠ SLOPE BEHIND MSE WALL VARIES, SEE ROADWAY PLANS FOR MORE INFORMATION.

STATE PROJECT NUMBER

1146-75-71

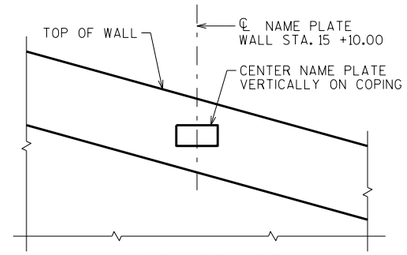


RODENT SHIELD DETAIL

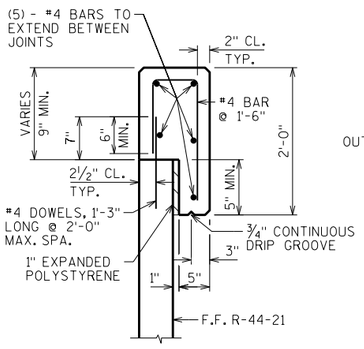
* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

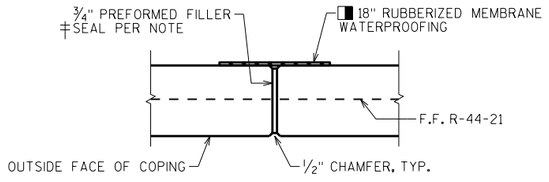
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHEMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



NAME PLATE DETAIL



CAST-IN-PLACE CONCRETE COPING DETAIL

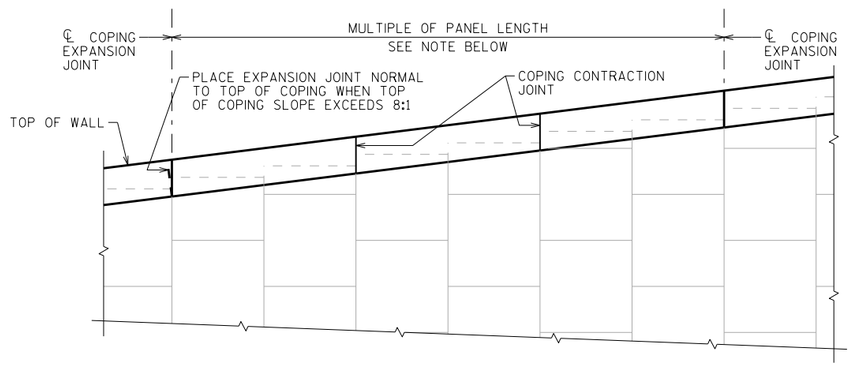


COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

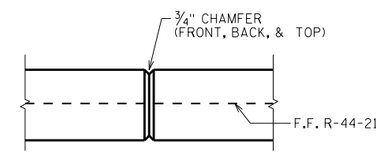
‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.



CAST-IN-PLACE COPING PARTIAL ELEVATION

LOOKING AT F.F. WALL



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-21

DRAWN BY JJS | PLANS CK'D. SEW

WALL DETAILS

SHEET 3

424

SCALE = 2.00

8

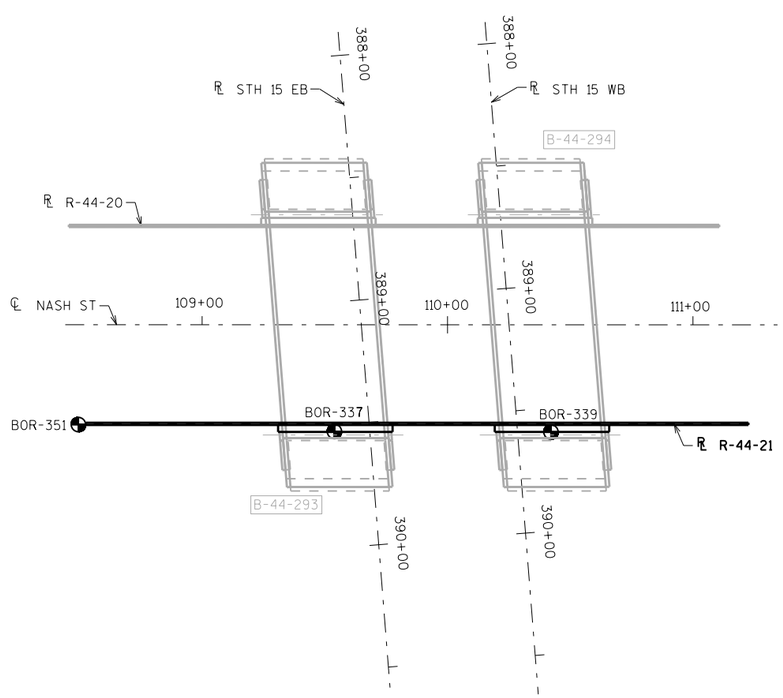
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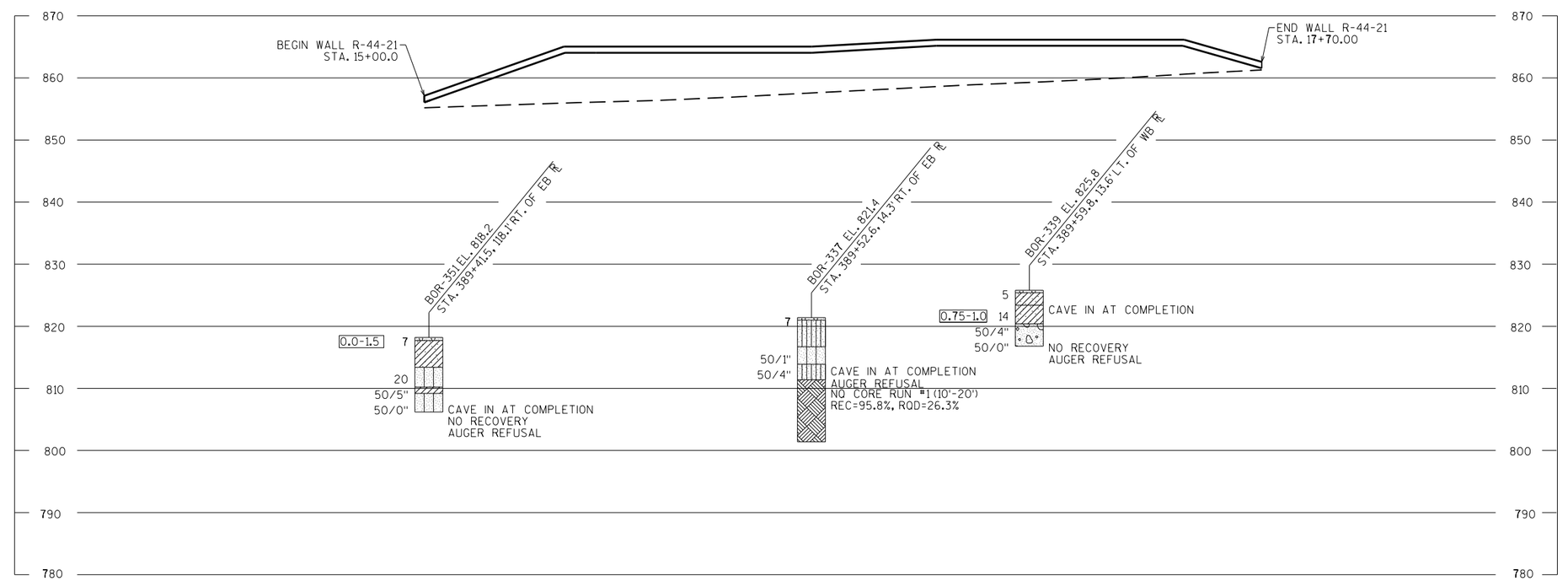
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
337	3/31/2014	591841	768857
339	3/31/2014	591910	768912
351	3/31/2014	591761	768790

BORINGS COMPLETED BY: GESTRA

REPORT COMPLETED BY: CH2M HILL

ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY





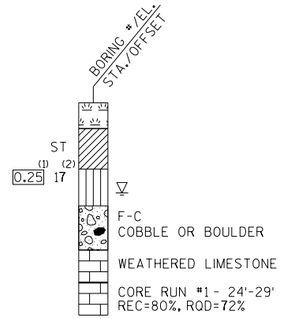
STATE PROJECT NUMBER

1146-75-71

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
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ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-21

DRAWN BY TLP | PLANS CK'D. SEW

SUBSURFACE EXPLORATION

SHEET 4

425

8

8

SCALE = 30.0

AL_15eb_bypass

STATION	Real Station	Distance	AREA (SF)						Incremental Vol (CY) (Unadjusted)					
			Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS
275+00	27500.00	0.00	3.30	0.00	4664.36	0.00	0.00	0.00	0	0	0	0	0	0
275+50	27550.00	50.00	0.01	0.00	4798.05	0.00	0.00	0.00	3	0	8,761	0	0	0
276+00	27600.00	50.00	5.10	0.00	4604.07	0.00	0.00	0.00	5	0	8,706	0	0	0
276+50	27650.00	50.00	15.01	0.00	3904.02	0.00	0.00	0.00	19	0	7,878	0	0	0
277+00	27700.00	50.00	16.66	0.00	3319.23	0.00	0.00	0.00	29	0	6,688	0	0	0
277+50	27750.00	50.00	7.41	0.00	2778.18	0.00	0.00	0.00	22	0	5,646	0	0	0
278+00	27800.00	50.00	3.50	0.00	2230.45	0.00	0.00	0.00	10	0	4,638	0	0	0
278+50	27850.00	50.00	1.07	0.00	1636.32	0.00	0.00	0.00	4	0	3,580	0	0	0
279+00	27900.00	50.00	0.10	0.00	997.31	0.00	0.00	0.00	1	0	2,439	0	0	0
									93	0	48,335	0	0	0

WCL RR – B.O.C.

AL_15eb_bypass

STATION	Real Station	Distance	AREA (SF)						Incremental Vol (CY) (Unadjusted)					
			Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS
279+50	27950.00	0.00	0.00	0.00	2484.46	0.00	0.00	0.00	0	0	0	0	0	0
280+00	28000.00	50.00	0.00	0.00	3360.15	0.00	0.00	0.00	0	0	5,412	0	0	0
280+50	28050.00	50.00	0.00	0.00	4304.51	0.00	0.00	0.00	0	0	7,097	0	0	0
281+00	28100.00	50.00	0.00	0.00	5009.27	0.00	0.00	0.00	0	0	8,624	0	0	0
281+50	28150.00	50.00	0.00	0.00	6064.81	0.00	0.00	0.00	0	0	10,254	0	0	0
282+00	28200.00	50.00	0.01	0.00	7616.69	0.00	0.00	0.00	0	0	12,668	0	0	0
282+50	28250.00	50.00	0.00	0.00	8849.02	0.00	0.00	0.00	0	0	15,246	0	0	0
283+00	28300.00	50.00	0.00	0.00	10148.32	0.00	0.00	0.00	0	0	17,590	0	0	0
283+50	28350.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	9,397	0	0	0
284+00	28400.00	50.00	8.05	0.00	9411.82	0.00	0.00	0.00	7	0	8,715	0	0	0
284+50	28450.00	50.00	17.38	0.00	8905.36	0.00	0.00	0.00	24	0	16,960	0	0	0
285+00	28500.00	50.00	35.28	0.00	8722.43	0.00	0.00	0.00	49	0	16,322	0	0	0
285+50	28550.00	50.00	59.15	0.00	8477.01	0.00	0.00	0.00	87	0	15,925	0	0	0
286+00	28600.00	50.00	57.37	0.00	8287.29	0.00	0.00	0.00	108	0	15,523	0	0	0
286+50	28650.00	50.00	30.62	0.00	7907.35	0.00	0.00	0.00	81	0	14,995	0	0	0
287+00	28700.00	50.00	30.80	0.00	8066.62	0.00	0.00	0.00	57	0	14,791	0	0	0
287+50	28750.00	50.00	50.40	0.00	7820.56	0.00	0.00	0.00	75	0	14,710	0	0	0
288+00	28800.00	50.00	20.73	0.00	7987.41	0.00	0.00	0.00	66	0	14,637	0	0	0
288+50	28850.00	50.00	0.00	0.00	8638.86	0.00	0.00	0.00	19	0	15,395	0	0	0
289+00	28900.00	50.00	3.56	0.00	8942.08	0.00	0.00	0.00	3	0	16,279	0	0	0
289+50	28950.00	50.00	0.77	0.00	9148.55	0.00	0.00	0.00	4	0	16,751	0	0	0
290+00	29000.00	50.00	2.43	0.00	9007.84	0.00	0.00	0.00	3	0	16,811	0	0	0
290+50	29050.00	50.00	7.61	0.00	7824.93	0.00	0.00	0.00	9	0	15,586	0	0	0
291+00	29100.00	50.00	17.10	0.00	6610.91	0.00	0.00	0.00	23	0	13,367	0	0	0
291+50	29150.00	50.00	38.89	0.00	6264.29	0.00	0.00	0.00	52	0	11,921	0	0	0
292+00	29200.00	50.00	26.74	0.00	6168.88	0.00	0.00	0.00	61	0	11,512	0	0	0
292+50	29250.00	50.00	17.84	0.00	5949.23	0.00	0.00	0.00	41	0	11,220	0	0	0
293+00	29300.00	50.00	24.04	0.00	5653.05	0.00	0.00	0.00	39	0	10,743	0	0	0
293+50	29350.00	50.00	17.21	0.00	5325.01	0.00	0.00	0.00	38	0	10,165	0	0	0
294+00	29400.00	50.00	27.50	0.00	4968.89	0.00	0.00	0.00	41	0	9,531	0	0	0
294+50	29450.00	50.00	16.35	0.00	4518.85	0.00	0.00	0.00	41	0	8,785	0	0	0
295+00	29500.00	50.00	10.79	0.00	4272.76	0.00	0.00	0.00	25	0	8,140	0	0	0
295+50	29550.00	50.00	7.82	0.00	4262.61	0.00	0.00	0.00	17	0	7,903	0	0	0
296+00	29600.00	50.00	53.40	0.00	4157.68	0.00	0.00	0.00	57	0	7,797	0	0	0
296+50	29650.00	50.00	0.00	0.00	5714.90	0.00	0.00	0.00	49	0	9,141	0	0	0
297+00	29700.00	50.00	0.00	0.00	7352.42	0.00	0.00	0.00	0	0	12,099	0	0	0
297+50	29750.00	50.00	0.00	0.00	5666.25	0.00	0.00	0.00	0	0	12,054	0	0	0

WCL RR – B.O.C.

AL_15eb_bypass

STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS
297+50	29750.00	50.00	0.00	0.00	5666.25	0.00	0.00	0.00	0	0	12,054	0	0	0
298+00	29800.00	50.00	14.59	0.00	3873.14	0.00	0.00	0.00	14	0	8,833	0	0	0
298+50	29850.00	50.00	82.73	0.00	2909.82	0.00	0.00	0.00	90	0	6,281	0	0	0
299+00	29900.00	50.00	64.43	0.00	2109.95	0.00	0.00	0.00	136	0	4,648	0	0	0
299+50	29950.00	50.00	36.41	0.00	1887.07	0.00	0.00	0.00	93	0	3,701	0	0	0
300+00	30000.00	50.00	154.31	0.00	1769.97	0.00	0.00	0.00	177	0	3,386	0	0	0
300+50	30050.00	50.00	9.14	0.00	1639.97	0.00	0.00	0.00	151	0	3,157	0	0	0
301+00	30100.00	50.00	27.33	0.00	1503.71	0.00	0.00	0.00	34	0	2,911	0	0	0
301+50	30150.00	50.00	34.08	0.00	1488.67	0.00	0.00	0.00	57	0	2,771	0	0	0
302+00	30200.00	50.00	36.94	0.00	1685.35	0.00	0.00	0.00	66	0	2,939	0	0	0
302+50	30250.00	50.00	28.86	0.00	1727.41	0.00	0.00	0.00	61	0	3,160	0	0	0
303+00	30300.00	50.00	14.25	0.00	1505.35	0.00	0.00	0.00	40	0	2,993	0	0	0
303+50	30350.00	50.00	7.34	0.00	1272.96	0.00	0.00	0.00	20	0	2,573	0	0	0
304+00	30400.00	50.00	5.24	0.00	1153.70	0.00	0.00	0.00	12	0	2,247	0	0	0
304+50	30450.00	50.00	2.01	0.00	1019.93	0.00	0.00	0.00	7	0	2,013	0	0	0
305+00	30500.00	50.00	1.57	0.00	945.65	0.00	0.00	0.00	3	0	1,820	0	0	0
305+50	30550.00	50.00	0.85	0.00	830.09	0.00	0.00	0.00	2	0	1,644	0	0	0
306+00	30600.00	50.00	0.10	0.00	819.57	0.00	0.00	0.00	1	0	1,527	0	0	0
306+50	30650.00	50.00	0.00	0.00	881.09	0.00	0.00	0.00	0	0	1,575	0	0	0
307+00	30700.00	50.00	1.23	0.00	942.05	0.00	0.00	0.00	1	0	1,688	0	0	0
307+50	30750.00	50.00	2.05	0.00	823.31	0.00	0.00	0.00	3	0	1,635	0	0	0
308+00	30800.00	50.00	0.60	0.00	812.91	0.00	0.00	0.00	2	0	1,515	0	0	0
308+50	30850.00	50.00	1.51	0.00	779.47	0.00	0.00	0.00	2	0	1,474	0	0	0
309+00	30900.00	50.00	3.90	0.00	708.77	0.00	0.00	0.00	5	0	1,378	0	0	0
309+50	30950.00	50.00	7.64	0.00	708.48	0.00	0.00	0.00	11	0	1,312	0	0	0
310+00	31000.00	50.00	8.10	0.00	673.38	0.00	0.00	0.00	15	0	1,280	0	0	0
310+50	31050.00	50.00	14.01	0.00	489.41	0.00	0.00	0.00	20	0	1,077	0	0	0
311+00	31100.00	50.00	19.97	0.00	422.79	0.00	0.00	0.00	31	0	845	0	0	0
311+50	31150.00	50.00	25.83	0.00	368.59	0.00	0.00	0.00	42	0	733	0	0	0
312+00	31200.00	50.00	27.66	0.00	365.10	0.00	0.00	0.00	50	0	679	0	0	0
312+50	31250.00	50.00	34.42	0.00	327.79	0.00	0.00	0.00	57	0	642	0	0	0
313+00	31300.00	50.00	43.20	0.00	276.21	0.00	0.00	0.00	72	0	559	0	0	0
313+50	31350.00	50.00	55.89	0.00	259.25	0.00	0.00	0.00	92	0	496	0	0	0
314+00	31400.00	50.00	66.16	0.00	241.67	0.00	0.00	0.00	113	0	464	0	0	0
314+50	31450.00	50.00	73.79	0.00	190.86	0.00	0.00	0.00	130	0	400	0	0	0
315+00	31500.00	50.00	83.55	0.00	116.17	0.00	0.00	0.00	146	0	284	0	0	0
315+50	31550.00	50.00	121.23	0.00	56.60	0.00	0.00	0.00	190	0	160	0	0	0
316+00	31600.00	50.00	122.44	0.00	49.75	0.00	0.00	0.00	226	0	98	0	0	0

WCL RR – B.O.C.

AL_15eb_bypass

STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS
316+00	31600.00	50.00	122.44	0.00	49.75	0.00	0.00	0.00	226	0	98	0	0	0
316+50	31650.00	50.00	81.05	0.00	148.35	0.00	0.00	0.00	188	0	183	0	0	0
317+00	31700.00	50.00	95.78	0.00	227.48	0.00	0.00	0.00	164	0	348	0	0	0
317+50	31750.00	50.00	110.11	0.00	212.36	0.00	0.00	0.00	191	0	407	0	0	0
318+00	31800.00	50.00	113.20	0.00	175.79	0.00	0.00	0.00	207	0	359	0	0	0
318+50	31850.00	50.00	141.05	0.00	145.54	0.00	0.00	0.00	235	0	298	0	0	0
319+00	31900.00	50.00	169.93	0.00	109.62	0.00	0.00	0.00	288	0	236	0	0	0
319+50	31950.00	50.00	226.82	0.00	70.49	0.00	0.00	0.00	367	0	167	0	0	0
320+00	32000.00	50.00	142.27	0.00	168.91	0.00	0.00	0.00	342	0	222	0	0	0
320+50	32050.00	50.00	167.55	0.00	73.65	0.00	0.00	0.00	287	0	225	0	0	0
321+00	32100.00	50.00	148.72	0.00	36.64	0.00	0.00	0.00	293	0	102	0	0	0
321+50	32150.00	50.00	49.10	0.00	160.11	0.00	0.00	0.00	183	0	182	0	0	0
322+00	32200.00	50.00	58.06	0.00	141.17	0.00	0.00	0.00	99	0	279	0	0	0
322+50	32250.00	50.00	61.29	0.00	133.12	0.00	0.00	0.00	111	0	254	0	0	0
323+00	32300.00	50.00	89.85	0.00	81.68	0.00	0.00	0.00	140	0	199	0	0	0
323+50	32350.00	50.00	133.16	0.00	29.30	0.00	0.00	0.00	206	0	103	0	0	0
324+00	32400.00	50.00	135.39	0.00	27.55	0.00	0.00	0.00	249	0	53	0	0	0
324+50	32450.00	50.00	142.47	0.00	25.93	0.00	0.00	0.00	257	0	50	0	0	0
325+00	32500.00	50.00	152.33	0.00	38.71	0.00	0.00	0.00	273	0	60	0	0	0
325+50	32550.00	50.00	123.87	0.00	85.70	0.00	0.00	0.00	256	0	115	0	0	0
326+00	32600.00	50.00	108.84	0.00	148.14	0.00	0.00	0.00	215	0	217	0	0	0
326+50	32650.00	50.00	122.11	0.00	279.90	0.00	0.00	0.00	214	0	396	0	0	0
327+00	32700.00	50.00	110.42	0.00	712.89	0.00	0.00	0.00	215	0	919	0	0	0
327+50	32750.00	50.00	40.50	0.00	778.92	0.00	0.00	0.00	140	0	1,381	0	0	0
328+00	32800.00	50.00	17.08	0.00	902.18	0.00	0.00	0.00	53	0	1,557	0	0	0
328+50	32850.00	50.00	8.26	0.00	968.08	0.00	0.00	0.00	23	0	1,732	0	0	0
329+00	32900.00	50.00	4.41	0.00	1109.23	0.00	0.00	0.00	12	0	1,923	0	0	0
329+50	32950.00	50.00	2.58	0.00	1218.84	5.14	0.00	0.00	6	0	2,156	5	0	0
330+00	33000.00	50.00	6.58	0.00	1219.57	50.54	0.00	0.00	8	0	2,258	52	0	0
330+50	33050.00	50.00	8.62	0.00	1260.06	86.23	0.00	0.00	14	0	2,296	127	0	0
331+00	33100.00	50.00	8.04	0.00	1293.94	307.23	0.00	0.00	15	0	2,365	364	0	0
331+50	33150.00	50.00	11.99	0.00	1366.12	0.00	0.00	0.00	19	0	2,463	284	0	0
332+00	33200.00	50.00	14.05	0.00	1535.87	0.00	0.00	0.00	24	0	2,687	0	0	0
332+50	33250.00	50.00	10.56	0.00	1643.03	801.38	0.00	0.00	23	0	2,943	742	0	0
333+00	33300.00	50.00	0.00	0.00	1689.77	877.74	0.00	0.00	10	0	3,086	1,555	0	0
333+50	33350.00	50.00	0.00	0.00	1815.07	1283.86	0.00	0.00	0	0	3,245	2,001	0	0
334+00	33400.00	50.00	0.00	0.00	1635.37	1344.36	0.00	0.00	0	0	3,195	2,434	0	0

AL_15eb_bypass

STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS
334+50	33450.00	50.00	0.00	0.00	1634.76	1278.08	0.00	0.00	0	0	3,028	2,428	0	0
335+00	33500.00	50.00	0.00	0.00	1606.91	1243.31	0.00	0.00	0	0	3,002	2,335	0	0
335+50	33550.00	50.00	0.00	0.00	1573.24	1243.98	0.00	0.00	0	0	2,945	2,303	0	0
336+00	33600.00	50.00	0.00	0.00	1537.15	1241.67	0.00	0.00	0	0	2,880	2,302	0	0
336+50	33650.00	50.00	0.00	0.00	1475.51	1217.75	0.00	0.00	0	0	2,790	2,277	0	0
337+00	33700.00	50.00	0.00	0.00	1425.96	1129.56	0.00	0.00	0	0	2,687	2,173	0	0
337+50	33750.00	50.00	0.00	0.00	1332.27	1270.08	0.00	0.00	0	0	2,554	2,222	0	0
338+00	33800.00	50.00	0.00	0.00	1245.25	1323.67	0.00	0.00	0	0	2,387	2,402	0	0
338+50	33850.00	50.00	0.00	0.00	1459.52	1083.86	0.00	0.00	0	0	2,504	2,229	0	0
339+00	33900.00	50.00	0.00	0.00	623.33	1248.20	0.00	0.00	0	0	1,929	2,159	0	0
339+50	33950.00	50.00	0.00	0.00	47.08	1404.75	0.00	0.00	0	0	621	2,456	0	0
340+00	34000.00	50.00	0.00	0.00	0.00	1360.40	0.00	0.00	0	0	44	2,560	0	0
									8,576	0	584,991	35,410	0	0

AL_15eb_bypass

STATION	Real Station	Distance	AREA (SF)						Incremental Vol (CY) (Unadjusted)					
			Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS
340+00	34000.00	0.00	0.00	0.00	0.00	1360.40	0.00	0.00	0	0	0	0	0	0
340+50	34050.00	50.00	0.00	0.00	220.16	1473.58	0.00	0.00	0	0	204	2,624	0	0
341+00	34100.00	50.00	0.00	0.00	712.18	1349.69	0.00	0.00	0	0	863	2,614	0	0
341+50	34150.00	50.00	0.00	0.00	1063.48	1200.61	0.00	0.00	0	0	1,644	2,361	0	0
342+00	34200.00	50.00	0.00	0.00	1028.07	979.41	0.00	0.00	0	0	1,937	2,019	0	0
342+50	34250.00	50.00	0.00	0.00	987.23	976.51	0.00	0.00	0	0	1,866	1,811	0	0
343+00	34300.00	50.00	0.00	0.00	941.76	906.40	0.00	0.00	0	0	1,786	1,743	0	0
343+50	34350.00	50.00	0.00	0.00	877.57	748.03	0.00	0.00	0	0	1,685	1,532	0	0
344+00	34400.00	50.00	0.00	0.00	839.65	886.59	0.00	0.00	0	0	1,590	1,514	0	0
344+50	34450.00	50.00	0.00	0.00	774.99	788.74	0.00	0.00	0	0	1,495	1,551	0	0
345+00	34500.00	50.00	0.00	0.00	704.92	814.44	0.00	0.00	0	0	1,370	1,484	0	0
345+50	34550.00	50.00	0.00	0.00	599.68	842.84	0.00	0.00	0	0	1,208	1,535	0	0
346+00	34600.00	50.00	0.00	0.00	513.77	863.40	0.00	0.00	0	0	1,031	1,580	0	0
346+50	34650.00	50.00	0.00	0.00	515.37	879.94	0.00	0.00	0	0	953	1,614	0	0
347+00	34700.00	50.00	0.00	0.00	434.63	1021.54	0.00	0.00	0	0	880	1,761	0	0
347+50	34750.00	50.00	0.00	0.00	456.52	1098.69	0.00	0.00	0	0	825	1,963	0	0
348+00	34800.00	50.00	0.00	0.00	477.48	1192.85	0.00	0.00	0	0	865	2,122	0	0
348+50	34850.00	50.00	0.00	0.00	455.86	1313.77	0.00	0.00	0	0	864	2,321	0	0
349+00	34900.00	50.00	0.00	0.00	491.54	1323.33	0.00	0.00	0	0	877	2,442	0	0
349+50	34950.00	50.00	0.00	0.00	507.65	1260.73	0.00	0.00	0	0	925	2,393	0	0
350+00	35000.00	50.00	0.00	0.00	560.43	1487.51	0.00	0.00	0	0	989	2,545	0	0
350+50	35050.00	50.00	0.00	0.00	584.85	1266.06	0.00	0.00	0	0	1,060	2,550	0	0
351+00	35100.00	50.00	0.00	0.00	636.87	0.00	0.00	0.00	0	0	1,131	1,172	0	0
351+50	35150.00	50.00	0.00	0.00	705.23	1038.77	0.00	0.00	0	0	1,243	962	0	0
352+00	35200.00	50.00	0.00	0.00	787.11	1015.17	0.00	0.00	0	0	1,382	1,902	0	0
352+50	35250.00	50.00	0.00	0.00	846.59	1147.82	0.00	0.00	0	0	1,513	2,003	0	0
353+00	35300.00	50.00	0.00	0.00	922.61	0.08	0.00	0.00	0	0	1,638	1,063	0	0
353+50	35350.00	50.00	0.00	0.00	1023.26	1114.87	0.00	0.00	0	0	1,802	1,032	0	0
354+00	35400.00	50.00	0.00	0.00	1075.17	1113.52	0.00	0.00	0	0	1,943	2,063	0	0
354+50	35450.00	50.00	0.00	0.00	1190.27	916.90	0.00	0.00	0	0	2,098	1,880	0	0
355+00	35500.00	50.00	0.00	0.00	1282.00	656.46	0.00	0.00	0	0	2,289	1,457	0	0
355+50	35550.00	50.00	0.00	0.00	1314.89	405.49	0.00	0.00	0	0	2,405	983	0	0
356+00	35600.00	50.00	0.00	0.00	1306.37	86.41	0.00	0.00	0	0	2,427	455	0	0
356+50	35650.00	50.00	0.00	0.00	1257.38	113.65	0.00	0.00	0	0	2,374	185	0	0
357+00	35700.00	50.00	0.00	0.00	1190.10	131.65	0.00	0.00	0	0	2,266	227	0	0
357+50	35750.00	50.00	0.00	0.00	1172.01	141.60	0.00	0.00	0	0	2,187	253	0	0
358+00	35800.00	50.00	0.00	0.00	1246.43	63.44	0.00	0.00	0	0	2,239	190	0	0
358+50	35850.00	50.00	7.41	0.00	1372.90	146.26	0.00	0.00	7	0	2,425	194	0	0

B.O.C.– CTH M

AL_15eb_bypass

STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS
359+00	35900.00	50.00	21.85	0.00	1541.50	177.38	0.00	0.00	27	0	2,699	300	0	0
359+50	35950.00	50.00	23.97	0.00	1760.17	94.39	0.00	0.00	42	0	3,057	252	0	0
360+00	36000.00	50.00	23.17	0.00	2008.36	17.42	0.00	0.00	44	0	3,489	104	0	0
360+50	36050.00	50.00	49.48	0.00	1920.36	0.00	0.00	0.00	67	0	3,638	16	0	0
361+00	36100.00	50.00	30.67	0.00	2063.97	0.00	0.00	0.00	74	0	3,689	0	0	0
361+50	36150.00	50.00	25.47	0.00	2211.32	0.00	0.00	0.00	52	0	3,959	0	0	0
362+00	36200.00	50.00	17.51	0.00	2195.16	0.00	0.00	0.00	40	0	4,080	0	0	0
362+50	36250.00	50.00	48.25	0.00	2157.63	0.00	0.00	0.00	61	0	4,030	0	0	0
363+00	36300.00	50.00	46.32	0.00	2188.39	0.00	0.00	0.00	88	0	4,024	0	0	0
363+50	36350.00	50.00	48.67	0.00	2216.59	0.00	0.00	0.00	88	0	4,079	0	0	0
364+00	36400.00	50.00	45.50	0.00	2248.29	0.00	0.00	0.00	87	0	4,134	0	0	0
364+50	36450.00	50.00	41.52	0.00	2282.05	0.00	0.00	0.00	81	0	4,195	0	0	0
365+00	36500.00	50.00	43.64	0.00	2316.24	0.00	0.00	0.00	79	0	4,258	0	0	0
365+50	36550.00	50.00	42.36	0.00	2385.71	0.00	0.00	0.00	80	0	4,354	0	0	0
366+00	36600.00	50.00	40.71	0.00	2488.00	0.00	0.00	0.00	77	0	4,513	0	0	0
366+50	36650.00	50.00	37.68	0.00	2665.46	0.00	0.00	0.00	73	0	4,772	0	0	0
367+00	36700.00	50.00	19.86	0.00	2928.62	0.00	0.00	0.00	53	0	5,180	0	0	0
367+50	36750.00	50.00	6.73	0.00	3250.48	0.00	0.00	0.00	25	0	5,721	0	0	0
368+00	36800.00	50.00	22.29	0.00	3554.87	0.00	0.00	0.00	27	0	6,301	0	0	0
368+50	36850.00	50.00	28.99	0.00	3881.36	0.00	0.00	0.00	47	0	6,885	0	0	0
369+00	36900.00	50.00	32.19	0.00	4141.24	0.00	0.00	0.00	57	0	7,428	0	0	0
369+50	36950.00	50.00	57.03	0.00	4360.69	0.00	0.00	0.00	83	0	7,872	0	0	0
370+00	37000.00	50.00	43.45	0.00	4572.36	0.00	0.00	0.00	93	0	8,271	0	0	0
370+50	37050.00	50.00	82.93	0.00	4552.11	0.00	0.00	0.00	117	0	8,449	0	0	0
371+00	37100.00	50.00	56.06	0.00	4814.59	0.00	0.00	0.00	129	0	8,673	0	0	0
371+50	37150.00	50.00	4.99	0.00	4844.26	0.00	0.00	0.00	57	0	8,943	0	0	0
372+00	37200.00	50.00	7.56	0.00	4679.43	0.00	0.00	0.00	12	0	8,818	0	0	0
372+50	37250.00	50.00	0.42	0.00	3412.18	0.00	0.00	0.00	7	0	7,492	0	0	0
373+00	37300.00	50.00	2.12	0.00	1816.69	0.00	0.00	0.00	2	0	4,842	0	0	0
373+50	37350.00	50.00	0.00	0.00	2133.88	0.00	0.00	0.00	2	0	3,658	0	0	0
									1,776	0	217,781	58,771	0	0

CTH M – NASH ST.

AL_15eb_bypass

STATION	Real Station	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)		
			Cut	Fill	Marsh Exc	Rock Exc	Cut	Fill	Rock Exc
373+50	37350.00	0.00	0.00	2133.88	0.00	0.00	0	0	0
374+00	37400.00	50.00	7.77	2919.07	0.00	0.00	7	4,679	0
374+50	37450.00	50.00	0.16	4024.82	0.00	0.00	7	6,430	0
375+00	37500.00	50.00	4.69	3304.94	0.00	0.00	4	6,787	0
375+50	37550.00	50.00	28.73	2839.26	0.00	0.00	31	5,689	0
376+00	37600.00	50.00	259.95	591.83	0.00	10.15	267	3,177	9
376+50	37650.00	50.00	365.21	194.17	0.00	71.12	579	728	75
377+00	37700.00	50.00	557.75	47.69	0.00	141.54	855	224	197
377+50	37750.00	50.00	754.99	33.50	0.00	74.48	1,216	75	200
378+00	37800.00	50.00	877.53	47.33	0.00	58.68	1,512	75	123
378+50	37850.00	50.00	284.65	181.34	0.00	299.39	1,076	212	332
379+00	37900.00	50.00	1004.22	21.14	0.00	528.75	1,193	187	767
379+50	37950.00	50.00	1459.08	13.46	0.00	423.74	2,281	32	882
380+00	38000.00	50.00	1706.43	0.00	0.00	272.96	2,931	12	645
380+50	38050.00	50.00	1563.20	0.00	0.00	473.48	3,027	0	691
381+00	38100.00	50.00	1625.24	0.00	0.00	702.34	2,952	0	1,089
381+50	38150.00	50.00	1483.81	0.00	0.00	1371.18	2,879	0	1,920
382+00	38200.00	50.00	1414.27	0.00	0.00	2097.65	2,683	0	3,212
382+50	38250.00	50.00	1501.55	0.00	0.00	2233.48	2,700	0	4,010
383+00	38300.00	50.00	929.86	0.00	0.00	2350.82	2,251	0	4,245
383+50	38350.00	50.00	1252.60	0.00	0.00	1429.39	2,021	0	3,500
384+00	38400.00	50.00	1491.57	0.00	0.00	418.89	2,541	0	1,711
384+50	38450.00	50.00	798.74	0.00	0.00	300.08	2,121	0	666
385+00	38500.00	50.00	637.34	176.41	0.00	303.48	1,330	163	559
385+50	38550.00	50.00	518.05	206.94	0.00	120.84	1,070	355	393
386+00	38600.00	50.00	368.20	740.09	0.00	19.05	821	877	130
386+50	38650.00	50.00	161.07	1558.84	0.00	0.00	490	2,129	18
387+00	38700.00	50.00	122.00	2959.62	0.00	0.00	262	4,184	0
387+50	38750.00	50.00	70.00	3758.24	0.00	0.00	178	6,220	0
388+00	38800.00	50.00	0.00	3776.46	0.00	0.00	65	6,977	0
388+50	38850.00	50.00	0.00	3653.22	0.00	0.00	0	6,879	0
389+00	38900.00	50.00	0.00	0.00	0.00	0.00	0	3,383	0
							39,349	59,473	25,373

CTH M

STATION	Real Station	Distance	AREA (SF)						Incremental Vol (CY) (Unadjusted)					
			Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS
18+62.78	1862.78	0.00	43.10	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
19+00	1900.00	37.22	25.50	0.00	0.01	0.00	0.00	0.00	47	0	0	0	0	0
19+50	1950.00	50.00	17.43	0.00	0.64	0.00	0.00	0.00	40	0	1	0	0	0
20+00	2000.00	50.00	14.72	0.00	10.81	0.00	0.00	0.00	30	0	11	0	0	0
20+50	2050.00	50.00	14.71	0.00	14.18	0.00	0.00	0.00	27	0	23	0	0	0
21+00	2100.00	50.00	13.85	0.00	20.99	0.00	0.00	0.00	26	0	33	0	0	0
21+50	2150.00	50.00	13.94	0.00	20.54	0.00	0.00	0.00	26	0	38	0	0	0
22+00	2200.00	50.00	16.96	0.00	36.12	0.00	0.00	0.00	29	0	52	0	0	0
22+50	2250.00	50.00	187.48	0.00	62.39	0.00	0.00	0.00	189	0	91	0	0	0
23+00	2300.00	50.00	34.70	0.00	8.27	0.00	0.00	0.00	206	0	65	0	0	0
23+50	2350.00	50.00	35.39	0.00	0.01	0.00	0.00	0.00	65	0	8	0	0	0
24+00	2400.00	50.00	25.91	0.00	4.23	0.00	0.00	0.00	57	0	4	0	0	0
24+50	2450.00	50.00	21.74	0.00	8.29	0.00	0.00	0.00	44	0	12	0	0	0
25+00	2500.00	50.00	17.70	0.00	5.11	0.00	0.00	0.00	37	0	12	0	0	0
25+50	2550.00	50.00	47.62	0.00	0.00	0.00	0.00	0.00	60	0	5	0	0	0
26+00	2600.00	50.00	86.44	0.00	0.00	0.00	0.00	0.00	124	0	0	0	0	0
26+25.24	2625.24	25.24	75.60	0.00	5.60	0.00	0.00	0.00	76	0	3	0	0	0
26+30	2630.00	4.76	74.31	0.00	13.03	0.00	0.00	0.00	13	0	2	0	0	0
26+35	2635.00	5.00	78.57	0.00	14.09	0.00	0.00	0.00	14	0	3	0	0	0
26+40	2640.00	5.00	71.10	0.00	16.06	0.00	0.00	0.00	14	0	3	0	0	0
26+45	2645.00	5.00	51.41	0.00	18.32	0.00	0.00	0.00	11	0	3	0	0	0
26+50	2650.00	5.00	31.77	0.00	19.91	0.00	0.00	0.00	8	0	4	0	0	0
26+55	2655.00	5.00	21.59	0.00	19.80	0.00	0.00	0.00	5	0	4	0	0	0
26+60	2660.00	5.00	22.14	0.00	15.01	0.00	0.00	0.00	4	0	3	0	0	0
26+65	2665.00	5.00	23.57	0.00	0.44	0.00	0.00	0.00	4	0	1	0	0	0
26+70	2670.00	5.00	24.43	0.00	0.00	0.00	0.00	0.00	4	0	0	0	0	0
26+75	2675.00	5.00	23.14	0.00	0.00	0.00	0.00	0.00	4	0	0	0	0	0
26+80	2680.00	5.00	20.68	0.00	0.00	0.00	0.00	0.00	4	0	0	0	0	0
26+85	2685.00	5.00	16.69	0.00	0.00	0.00	0.00	0.00	3	0	0	0	0	0
26+90	2690.00	5.00	11.70	0.00	0.00	0.00	0.00	0.00	3	0	0	0	0	0
26+95	2695.00	5.00	6.02	0.00	0.00	0.00	0.00	0.00	2	0	0	0	0	0
27+00	2700.00	5.00	0.07	0.00	0.00	0.00	0.00	0.00	1	0	0	0	0	0
27+05	2705.00	5.00	5.99	0.00	0.00	0.00	0.00	0.00	1	0	0	0	0	0
27+10	2710.00	5.00	10.57	0.00	0.00	0.00	0.00	0.00	2	0	0	0	0	0
27+15	2715.00	5.00	13.35	0.00	0.00	0.00	0.00	0.00	2	0	0	0	0	0
27+20	2720.00	5.00	15.23	0.00	0.00	0.00	0.00	0.00	3	0	0	0	0	0
27+25	2725.00	5.00	15.42	0.00	0.07	0.00	0.00	0.00	3	0	0	0	0	0
27+30	2730.00	5.00	15.04	0.00	4.68	0.00	0.00	0.00	3	0	0	0	0	0
27+35	2735.00	5.00	15.14	0.00	22.04	0.00	0.00	0.00	3	0	2	0	0	0
27+40	2740.00	5.00	15.56	0.00	29.05	0.00	0.00	0.00	3	0	5	0	0	0
27+45	2745.00	5.00	20.26	0.00	25.10	0.00	0.00	0.00	3	0	5	0	0	0
27+50	2750.00	5.00	32.83	0.00	22.12	0.00	0.00	0.00	5	0	4	0	0	0
27+55	2755.00	5.00	48.27	0.00	7.30	0.00	0.00	0.00	8	0	3	0	0	0
27+60	2760.00	5.00	50.14	0.00	1.47	0.00	0.00	0.00	9	0	1	0	0	0
27+65	2765.00	5.00	44.30	0.00	2.70	0.00	0.00	0.00	9	0	0	0	0	0
27+70	2770.00	5.00	44.68	0.00	1.60	0.00	0.00	0.00	8	0	0	0	0	0
27+75	2775.00	5.00	42.74	0.00	0.79	0.00	0.00	0.00	8	0	0	0	0	0
28+00	2800.00	25.00	35.47	0.00	0.01	0.00	0.00	0.00	36	0	0	0	0	0
28+50	2850.00	50.00	35.94	0.00	0.00	0.00	0.00	0.00	66	0	0	0	0	0
28+55.18	2855.18	5.18	35.64	0.00	0.00	0.00	0.00	0.00	7	0	0	0	0	0
									1,355	0	401	0	0	0

CTH MM

AL_CTHMM

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)		
			Cut	Fill	Rock Exc	Cut	Fill	Rock Exc
11+00	1100.00	0.00	205.22	0.00	0.00	0	0	0
11+50	1150.00	50.00	189.81	0.00	0.00	366	0	0
12+00	1200.00	50.00	213.45	0.00	0.00	373	0	0
12+50	1250.00	50.00	213.69	0.00	0.00	395	0	0
13+00	1300.00	50.00	206.68	0.00	0.00	389	0	0
13+50	1350.00	50.00	166.63	0.00	0.00	346	0	0
14+00	1400.00	50.00	145.96	0.00	0.00	289	0	0
14+50	1450.00	50.00	100.32	0.00	0.00	228	0	0
15+00	1500.00	50.00	67.50	8.18	0.00	155	8	0
15+50	1550.00	50.00	106.46	18.50	0.00	161	25	0
16+00	1600.00	50.00	99.21	17.96	0.00	190	34	0
16+50	1650.00	50.00	110.25	0.00	0.00	194	17	0
17+00	1700.00	50.00	96.12	0.00	0.00	191	0	0
17+50	1750.00	50.00	70.02	1.41	0.00	154	1	0
18+00	1800.00	50.00	81.68	0.00	0.00	140	1	0
18+50	1850.00	50.00	126.61	0.00	0.00	193	0	0
19+00	1900.00	50.00	146.27	0.00	0.00	253	0	0
19+50	1950.00	50.00	151.56	0.00	0.00	276	0	0
20+00	2000.00	50.00	151.86	0.00	0.00	281	0	0
20+50	2050.00	50.00	273.97	0.00	0.00	394	0	0
21+00	2100.00	50.00	219.21	2.38	0.00	457	2	0
21+50	2150.00	50.00	174.62	26.85	0.00	365	27	0
22+00	2200.00	50.00	152.94	43.89	0.12	303	66	0
22+50	2250.00	50.00	137.14	22.28	0.37	269	61	0
23+00	2300.00	50.00	195.46	17.27	0.60	308	37	1
23+50	2350.00	50.00	263.63	11.24	20.55	425	26	20
24+00	2400.00	50.00	215.93	3.87	75.61	444	14	89
24+50	2450.00	50.00	205.87	1.40	0.00	391	5	70
25+00	2500.00	50.00	258.61	4.58	0.00	430	6	0
25+50	2550.00	50.00	219.59	0.00	0.00	443	4	0
26+00	2600.00	50.00	67.10	2.00	0.00	265	2	0
26+50	2650.00	50.00	73.97	0.10	0.00	131	2	0
26+76.55	2676.55	26.55	44.96	0.00	0.00	58	0	0
						9,258	337	180

N. CREST ST.

STATION	Real Station	Distance	AREA (SF)						Incremental Vol (CY) (Unadjusted)					
			Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS
11+30.02	1130.02	0.00	34.34	0.00	2.48	0.00	0.00	0.00	0	0	0	0	0	0
11+50	1150.00	19.98	59.12	0.00	14.98	0.00	0.00	0.00	35	0	6	0	0	0
12+00	1200.00	50.00	126.06	0.00	42.86	0.00	0.00	0.00	171	0	54	0	0	0
12+50	1250.00	50.00	119.01	0.00	8.47	0.00	0.00	0.00	227	0	48	0	0	0
12+95.88	1295.88	45.88	0.00	0.00	12.10	0.00	0.00	0.00	101	0	17	0	0	0
									534	0	125	0	0	0

NASH ST. – STH 15 STA 465+00

AL_15eb_bypass

STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS
389+00	38900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
389+50	38950.00	50.00	0.00	0.00	1377.85	0.00	0.00	0.00	0	0	1,276	0	0	0
390+00	39000.00	50.00	29.44	0.00	5421.55	0.00	0.00	0.00	27	0	6,296	0	0	0
390+50	39050.00	50.00	70.83	0.00	5580.64	0.00	0.00	0.00	93	0	10,187	0	0	0
391+00	39100.00	50.00	41.54	0.00	6322.70	0.00	0.00	0.00	104	0	11,022	0	0	0
391+50	39150.00	50.00	20.43	0.00	6764.57	0.00	0.00	0.00	57	0	12,118	0	0	0
392+00	39200.00	50.00	80.30	0.00	7529.29	0.00	0.00	0.00	93	0	13,235	0	0	0
392+50	39250.00	50.00	91.48	0.00	7513.31	0.00	0.00	0.00	159	0	13,928	0	0	0
393+00	39300.00	50.00	123.84	0.00	7408.01	0.00	0.00	0.00	199	0	13,816	0	0	0
393+50	39350.00	50.00	112.56	0.00	7032.65	0.00	0.00	0.00	219	0	13,371	0	0	0
394+00	39400.00	50.00	118.82	0.00	6265.33	0.00	0.00	0.00	214	0	12,313	0	0	0
394+50	39450.00	50.00	156.98	0.00	5290.01	0.00	0.00	0.00	255	0	10,699	0	0	0
395+00	39500.00	50.00	206.13	0.00	4924.33	0.00	0.00	0.00	336	0	9,458	0	0	0
395+50	39550.00	50.00	172.59	0.00	4832.25	0.00	0.00	0.00	351	0	9,034	0	0	0
396+00	39600.00	50.00	181.20	0.00	4505.11	0.00	0.00	0.00	328	0	8,646	0	0	0
396+50	39650.00	50.00	192.10	0.00	4166.28	0.00	0.00	0.00	346	0	8,029	0	0	0
397+00	39700.00	50.00	210.02	0.00	3981.07	0.00	0.00	0.00	372	0	7,544	0	0	0
397+50	39750.00	50.00	202.34	0.00	3721.39	0.00	0.00	0.00	382	0	7,132	0	0	0
398+00	39800.00	50.00	283.49	0.00	3545.80	0.00	0.00	0.00	450	0	6,729	0	0	0
398+50	39850.00	50.00	126.15	0.00	3377.54	0.00	0.00	0.00	379	0	6,411	0	0	0
399+00	39900.00	50.00	94.11	0.00	3085.59	0.00	0.00	0.00	204	0	5,984	0	0	0
399+50	39950.00	50.00	73.64	0.00	2728.26	0.00	0.00	0.00	155	0	5,383	0	0	0
400+00	40000.00	50.00	56.73	0.00	2282.08	0.00	0.00	0.00	121	0	4,639	0	0	0
400+50	40050.00	50.00	68.90	0.00	1733.12	0.00	0.00	0.00	116	0	3,718	0	0	0
401+00	40100.00	50.00	518.95	0.00	1214.88	0.00	0.00	0.00	544	0	2,730	0	0	0
401+50	40150.00	50.00	282.65	0.00	1010.09	0.00	0.00	0.00	742	0	2,060	0	0	0
402+00	40200.00	50.00	588.23	0.00	848.20	0.00	0.00	0.00	806	0	1,721	0	0	0
402+50	40250.00	50.00	613.99	0.00	579.40	0.00	0.00	0.00	1,113	0	1,322	0	0	0
403+00	40300.00	50.00	642.72	0.00	417.01	0.00	0.00	0.00	1,164	0	923	0	0	0
403+50	40350.00	50.00	710.72	0.00	233.20	0.00	0.00	0.00	1,253	0	602	0	0	0
404+00	40400.00	50.00	979.49	0.00	70.49	0.00	0.00	0.00	1,565	0	281	0	0	0
404+50	40450.00	50.00	1378.13	0.00	45.31	0.00	0.00	0.00	2,183	0	107	0	0	0
405+00	40500.00	50.00	1451.69	0.00	94.11	0.00	0.00	0.00	2,620	0	129	0	0	0
405+50	40550.00	50.00	1245.38	0.00	84.15	0.00	0.00	0.00	2,497	0	165	0	0	0
406+00	40600.00	50.00	1280.13	0.00	47.74	0.00	0.00	0.00	2,338	0	122	0	0	0
406+50	40650.00	50.00	1217.60	0.00	35.30	0.00	0.00	0.00	2,313	0	77	0	0	0
407+00	40700.00	50.00	1228.31	0.00	48.82	0.00	0.00	0.00	2,265	0	78	0	0	0
407+50	40750.00	50.00	975.82	0.00	35.67	0.00	0.00	0.00	2,041	0	78	0	0	0

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STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS
408+00	40800.00	50.00	704.65	0.00	74.22	0.00	0.00	0.00	1,556	0	102	0	0	0
408+50	40850.00	50.00	670.02	0.00	25.97	0.00	0.00	0.00	1,273	0	93	0	0	0
409+00	40900.00	50.00	1095.89	0.00	0.00	0.00	0.00	0.00	1,635	0	24	0	0	0
409+50	40950.00	50.00	1402.63	0.00	0.00	0.00	0.00	0.00	2,313	0	0	0	0	0
410+00	41000.00	50.00	1744.98	0.00	0.00	0.00	0.00	0.00	2,914	0	0	0	0	0
410+50	41050.00	50.00	2290.27	0.00	0.00	0.00	0.00	0.00	3,736	0	0	0	0	0
411+00	41100.00	50.00	2871.20	0.00	0.00	0.00	0.00	0.00	4,779	0	0	0	0	0
411+50	41150.00	50.00	3497.57	0.00	0.00	0.00	0.00	0.00	5,897	0	0	0	0	0
412+00	41200.00	50.00	4047.28	0.00	0.00	0.00	0.00	0.00	6,986	0	0	0	0	0
412+50	41250.00	50.00	4538.15	0.00	0.00	0.00	0.00	0.00	7,949	0	0	0	0	0
413+00	41300.00	50.00	4940.00	0.00	0.00	0.00	0.00	0.00	8,776	0	0	0	0	0
413+50	41350.00	50.00	5348.36	0.00	0.00	0.00	0.00	0.00	9,526	0	0	0	0	0
414+00	41400.00	50.00	5900.53	0.00	0.00	0.00	0.00	0.00	10,416	0	0	0	0	0
414+50	41450.00	50.00	6414.54	0.00	0.00	0.00	0.00	0.00	11,403	0	0	0	0	0
415+00	41500.00	50.00	7059.91	0.00	0.00	0.00	0.00	0.00	12,476	0	0	0	0	0
415+50	41550.00	50.00	7644.13	0.00	0.00	0.00	0.00	0.00	13,615	0	0	0	0	0
416+00	41600.00	50.00	8215.83	0.00	0.00	0.00	0.00	0.00	14,685	0	0	0	0	0
416+50	41650.00	50.00	8902.11	0.00	0.00	0.00	0.00	0.00	15,850	0	0	0	0	0
417+00	41700.00	50.00	9838.26	0.00	0.00	0.00	0.00	0.00	17,352	0	0	0	0	0
417+50	41750.00	50.00	10707.26	0.00	0.00	0.00	0.00	0.00	19,024	0	0	0	0	0
418+00	41800.00	50.00	11052.55	0.00	0.00	0.00	0.00	0.00	20,148	0	0	0	0	0
418+50	41850.00	50.00	10869.89	0.00	0.00	0.00	0.00	0.00	20,299	0	0	0	0	0
419+00	41900.00	50.00	10513.55	0.00	0.00	0.00	0.00	0.00	19,799	0	0	0	0	0
419+50	41950.00	50.00	10338.79	0.00	0.00	0.00	0.00	0.00	19,308	0	0	0	0	0
420+00	42000.00	50.00	10443.83	0.00	0.00	0.00	0.00	0.00	19,243	0	0	0	0	0
420+50	42050.00	50.00	10709.18	0.00	0.00	0.00	0.00	0.00	19,586	0	0	0	0	0
421+00	42100.00	50.00	11008.33	0.00	0.00	0.00	0.00	0.00	20,109	0	0	0	0	0
421+50	42150.00	50.00	11116.81	0.00	0.00	0.00	0.00	0.00	20,486	0	0	0	0	0
422+00	42200.00	50.00	11077.05	0.00	0.00	0.00	0.00	0.00	20,550	0	0	0	0	0
422+50	42250.00	50.00	11032.89	0.00	0.00	0.00	0.00	0.00	20,472	0	0	0	0	0
423+00	42300.00	50.00	11118.29	0.00	0.00	0.00	0.00	0.00	20,510	0	0	0	0	0
423+50	42350.00	50.00	11270.90	0.00	0.00	0.00	0.00	0.00	20,731	0	0	0	0	0
424+00	42400.00	50.00	11019.60	0.00	0.00	0.00	0.00	0.00	20,639	0	0	0	0	0
424+50	42450.00	50.00	10377.00	0.00	0.00	0.00	0.00	0.00	19,812	0	0	0	0	0
425+00	42500.00	50.00	8863.04	0.00	0.00	0.00	0.00	0.00	17,815	0	0	0	0	0
425+50	42550.00	50.00	6846.44	0.00	0.00	0.00	0.00	0.00	14,546	0	0	0	0	0
426+00	42600.00	50.00	4686.21	0.00	0.00	0.00	0.00	0.00	10,678	0	0	0	0	0

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STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS
426+50	42650.00	50.00	2500.76	0.00	0.00	0.00	0.00	0.00	6,655	0	0	0	0	0
427+00	42700.00	50.00	725.62	0.00	7.65	0.00	0.00	0.00	2,987	0	7	0	0	0
427+50	42750.00	50.00	128.88	0.00	284.11	0.00	0.00	0.00	791	0	270	0	0	0
428+00	42800.00	50.00	65.54	0.00	988.10	0.00	0.00	0.00	180	0	1,178	0	0	0
428+50	42850.00	50.00	50.86	0.00	1522.78	0.00	0.00	0.00	108	0	2,325	0	0	0
429+00	42900.00	50.00	49.80	0.00	1978.46	0.00	0.00	0.00	93	0	3,242	0	0	0
429+50	42950.00	50.00	43.40	0.00	2391.98	728.00	0.00	0.00	86	0	4,047	674	0	0
430+00	43000.00	50.00	12.19	0.00	3000.01	1458.00	0.00	0.00	51	0	4,993	2,024	0	0
430+50	43050.00	50.00	5.40	0.00	3681.98	1415.00	0.00	0.00	16	0	6,187	2,660	0	0
431+00	43100.00	50.00	70.32	0.00	3529.96	1068.00	0.00	0.00	70	0	6,678	2,299	0	0
431+50	43150.00	50.00	68.48	0.00	2641.61	1076.00	0.00	0.00	129	0	5,714	1,985	0	0
432+00	43200.00	50.00	167.47	0.00	2236.67	694.00	0.00	181.63	218	0	4,517	1,639	0	168
432+50	43250.00	50.00	303.01	0.00	1348.35	0.00	0.00	1284.87	436	0	3,319	643	0	1,358
433+00	43300.00	50.00	308.31	0.00	563.15	0.00	0.00	1950.42	566	0	1,770	0	0	2,996
433+50	43350.00	50.00	352.69	0.00	251.05	0.00	0.00	2414.83	612	0	754	0	0	4,042
434+00	43400.00	50.00	304.05	0.00	219.24	0.00	0.00	2769.82	608	0	435	0	0	4,801
434+50	43450.00	50.00	277.91	0.00	284.92	0.00	0.00	2230.76	539	0	467	0	0	4,630
435+00	43500.00	50.00	243.36	0.00	272.46	0.00	0.00	869.57	483	0	516	0	0	2,871
435+50	43550.00	50.00	366.35	0.00	117.01	0.00	0.00	0.00	565	0	361	0	0	805
436+00	43600.00	50.00	1111.09	0.00	0.00	0.00	0.00	0.00	1,368	0	108	0	0	0
436+50	43650.00	50.00	2498.27	0.00	0.00	0.00	0.00	0.00	3,342	0	0	0	0	0
437+00	43700.00	50.00	3055.97	0.00	0.00	0.00	0.00	0.00	5,143	0	0	0	0	0
437+50	43750.00	50.00	3235.75	0.00	0.00	0.00	0.00	0.00	5,826	0	0	0	0	0
438+00	43800.00	50.00	3460.74	0.00	0.00	0.00	0.00	0.00	6,200	0	0	0	0	0
438+50	43850.00	50.00	3704.86	0.00	0.00	0.00	0.00	0.00	6,635	0	0	0	0	0
439+00	43900.00	50.00	4244.98	0.00	0.00	0.00	0.00	0.00	7,361	0	0	0	0	0
439+50	43950.00	50.00	4626.20	0.00	0.00	0.00	0.00	0.00	8,214	0	0	0	0	0
440+00	44000.00	50.00	4939.47	0.00	0.00	0.00	0.00	0.00	8,857	0	0	0	0	0
440+50	44050.00	50.00	5162.02	0.00	0.00	0.00	0.00	0.00	9,353	0	0	0	0	0
441+00	44100.00	50.00	5306.05	0.00	0.00	0.00	0.00	0.00	9,693	0	0	0	0	0
441+50	44150.00	50.00	5375.00	0.00	0.00	0.00	0.00	0.00	9,890	0	0	0	0	0
442+00	44200.00	50.00	5299.35	0.00	0.00	0.00	0.00	0.00	9,884	0	0	0	0	0
442+50	44250.00	50.00	4721.68	0.00	0.00	0.00	0.00	0.00	9,279	0	0	0	0	0
443+00	44300.00	50.00	4585.21	0.00	0.00	0.00	0.00	0.00	8,617	0	0	0	0	0
443+50	44350.00	50.00	4331.42	0.00	0.00	0.00	0.00	0.00	8,256	0	0	0	0	0
444+00	44400.00	50.00	3799.89	0.00	0.00	0.00	0.00	0.00	7,529	0	0	0	0	0
444+50	44450.00	50.00	3415.77	0.00	0.00	0.00	0.00	0.00	6,681	0	0	0	0	0
445+00	44500.00	50.00	3231.60	0.00	0.00	0.00	0.00	0.00	6,155	0	0	0	0	0

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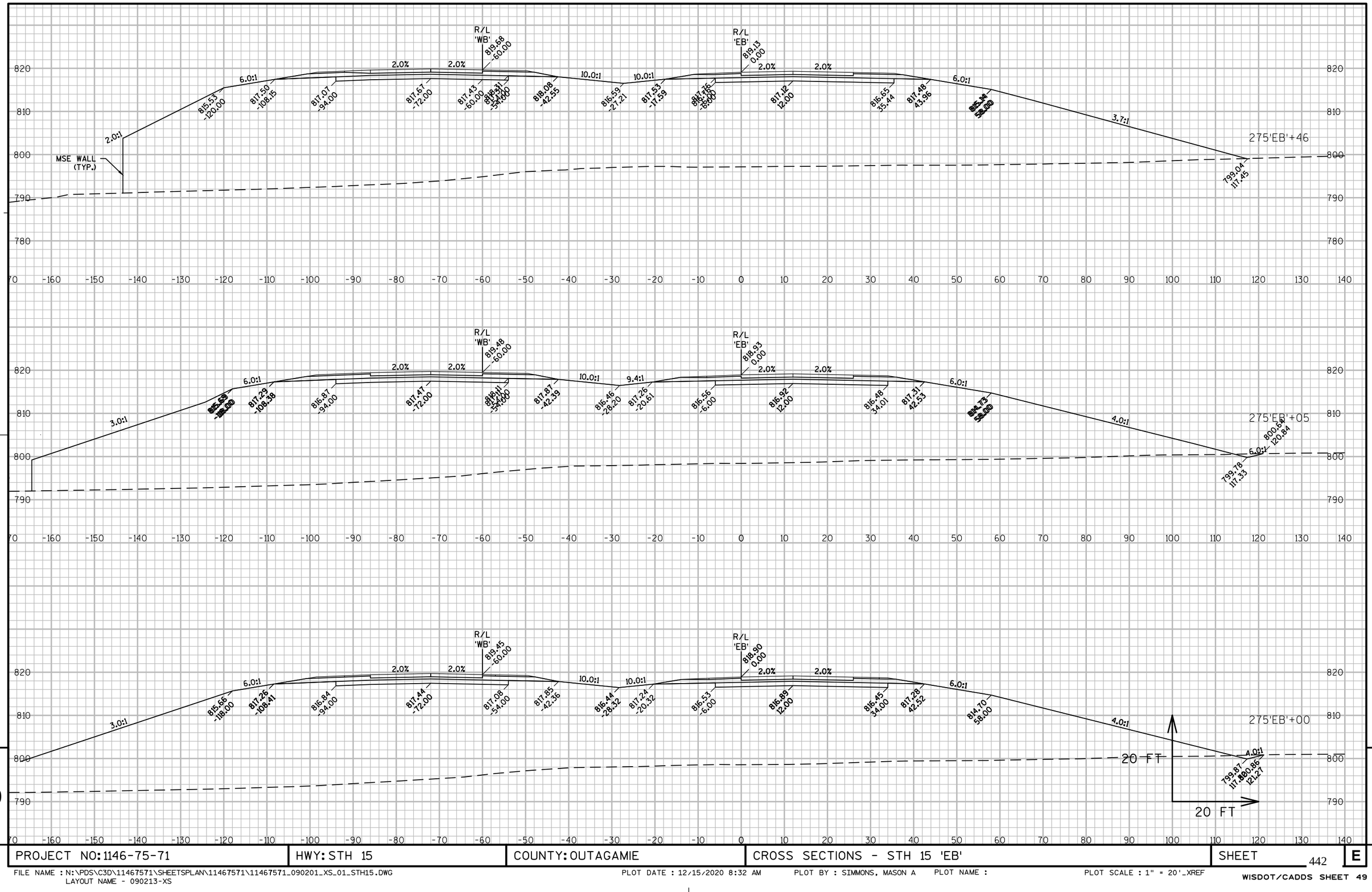
AL_15eb_bypass

STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS
445+50	44550.00	50.00	2847.76	0.00	0.00	0.00	0.00	0.00	5,629	0	0	0	0	0
446+00	44600.00	50.00	2887.95	0.00	0.00	0.00	0.00	0.00	5,311	0	0	0	0	0
446+50	44650.00	50.00	2530.34	0.00	0.00	0.00	0.00	0.00	5,017	0	0	0	0	0
447+00	44700.00	50.00	2196.03	0.00	0.00	0.00	0.00	0.00	4,376	0	0	0	0	0
447+50	44750.00	50.00	1528.75	0.00	0.00	0.00	0.00	0.00	3,449	0	0	0	0	0
448+00	44800.00	50.00	716.31	0.00	0.00	0.00	0.00	0.00	2,079	0	0	0	0	0
448+50	44850.00	50.00	233.01	0.00	57.38	0.00	0.00	0.00	879	0	53	0	0	0
449+00	44900.00	50.00	74.03	0.00	261.70	0.00	0.00	0.00	284	0	295	0	0	0
449+50	44950.00	50.00	37.10	0.00	513.33	0.00	0.00	0.00	103	0	718	0	0	0
450+00	45000.00	50.00	28.63	0.00	763.33	415.96	0.00	0.00	61	0	1,182	385	0	0
450+50	45050.00	50.00	39.80	0.00	880.92	472.71	0.00	0.00	63	0	1,522	823	0	0
451+00	45100.00	50.00	67.54	0.00	955.27	514.62	0.00	0.00	99	0	1,700	914	0	0
451+50	45150.00	50.00	61.79	0.00	1093.20	834.73	0.00	0.00	120	0	1,897	1,249	0	0
452+00	45200.00	50.00	39.28	0.00	1424.83	1092.81	0.00	0.00	94	0	2,332	1,785	0	0
452+50	45250.00	50.00	44.95	0.00	1594.75	960.89	0.00	0.00	78	0	2,796	1,902	0	0
453+00	45300.00	50.00	27.57	0.00	1752.18	898.66	0.00	0.00	67	0	3,099	1,722	0	0
453+50	45350.00	50.00	24.62	0.00	1865.09	1022.36	0.00	0.00	48	0	3,349	1,779	0	0
454+00	45400.00	50.00	22.12	0.00	1973.53	1229.31	0.00	0.00	43	0	3,554	2,085	0	0
454+50	45450.00	50.00	29.12	0.00	2048.11	1029.40	0.00	0.00	47	0	3,724	2,091	0	0
455+00	45500.00	50.00	38.52	0.00	2108.93	757.82	0.00	0.00	63	0	3,849	1,655	0	0
455+50	45550.00	50.00	36.65	0.00	2155.29	580.54	0.00	0.00	70	0	3,948	1,239	0	0
456+00	45600.00	50.00	32.92	0.00	2176.58	443.75	0.00	0.00	64	0	4,011	948	0	0
456+50	45650.00	50.00	24.36	0.00	2177.03	408.87	0.00	0.00	53	0	4,031	789	0	0
457+00	45700.00	50.00	21.98	0.00	2177.78	388.76	0.00	0.00	43	0	4,032	739	0	0
457+50	45750.00	50.00	19.45	0.00	2120.38	296.63	0.00	0.00	38	0	3,980	635	0	0
458+00	45800.00	50.00	18.81	0.00	2009.95	278.25	0.00	0.00	35	0	3,824	532	0	0
458+50	45850.00	50.00	28.28	0.00	1748.43	0.00	0.00	0.00	44	0	3,480	258	0	0
459+00	45900.00	50.00	59.48	0.00	1320.95	0.00	0.00	0.00	81	0	2,842	0	0	0
459+50	45950.00	50.00	125.55	0.00	878.86	0.00	0.00	0.00	171	0	2,037	0	0	0
460+00	46000.00	50.00	148.09	0.00	502.40	0.00	0.00	0.00	253	0	1,279	0	0	0
460+50	46050.00	50.00	188.22	0.00	228.85	0.00	0.00	0.00	311	0	677	0	0	0
461+00	46100.00	50.00	359.74	0.00	72.92	0.00	0.00	0.00	507	0	279	0	0	0
461+50	46150.00	50.00	461.20	0.00	8.55	0.00	0.00	0.00	760	0	75	0	0	0
462+00	46200.00	50.00	763.61	0.00	0.00	0.00	0.00	0.00	1,134	0	8	0	0	0
462+50	46250.00	50.00	1167.56	0.00	0.00	0.00	0.00	0.00	1,788	0	0	0	0	0
463+00	46300.00	50.00	1483.26	0.00	0.00	0.00	0.00	0.00	2,454	0	0	0	0	0
463+50	46350.00	50.00	1621.34	0.00	0.00	0.00	0.00	0.00	2,875	0	0	0	0	0
464+00	46400.00	50.00	1789.95	0.00	0.00	0.00	0.00	0.00	3,159	0	0	0	0	0

NASH ST. – STH 15 STA 465+00

AL_15eb_bypass

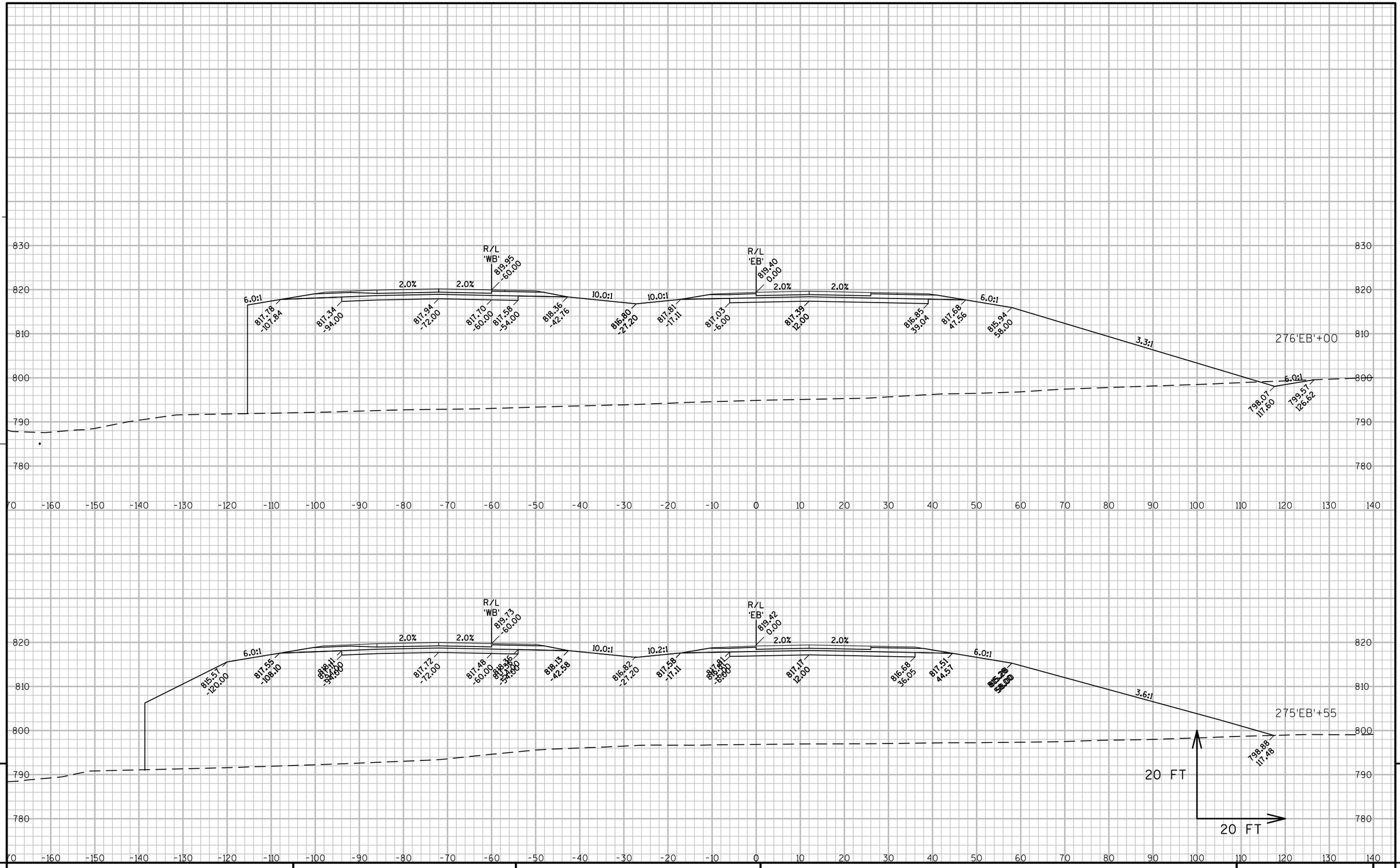
STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	AREA (SF) Marsh Exc	AREA (SF) Rock Exc	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) Marsh Exc	Incremental Vol (CY) (Unadjusted) Rock Exc	Incremental Vol (CY) (Unadjusted) EBS
464+50	46450.00	50.00	2050.92	0.00	0.00	0.00	0.00	0.00	3,556	0	0	0	0	0
465+00	46500.00	50.00	2014.05	0.00	0.00	0.00	0.00	0.00	3,764	0	0	0	0	0
									727,849	0	323,043	33,454	0	21,670



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 442	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_01_STH15.DWG
LAYOUT NAME - 090213-XS

PLOT DATE : 12/15/2020 8:32 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



9

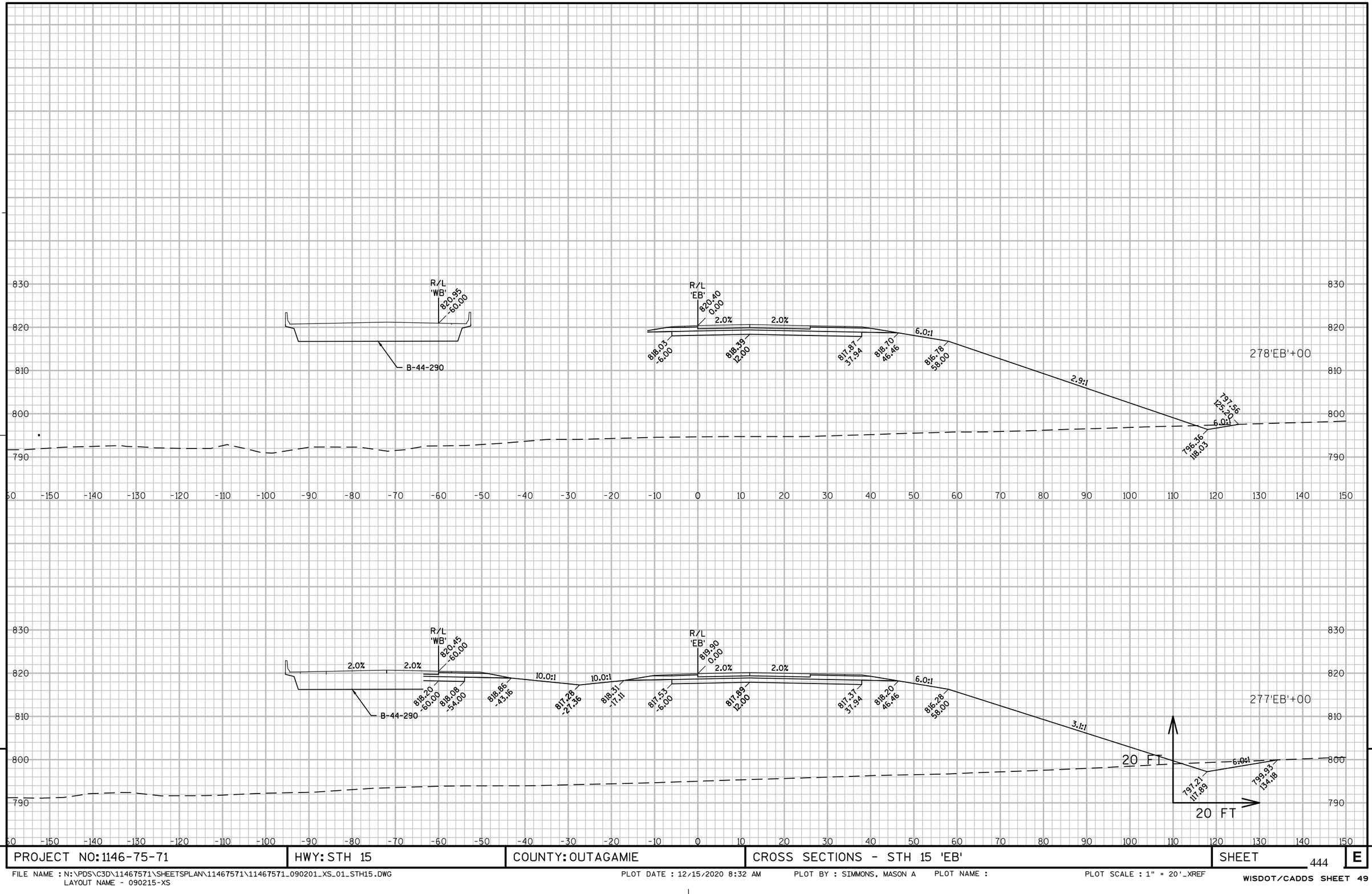
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 443	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_01_STH15.DWG
LAYOUT NAME - 090214-XS

PLOT DATE : 12/15/2020 8:32 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



9

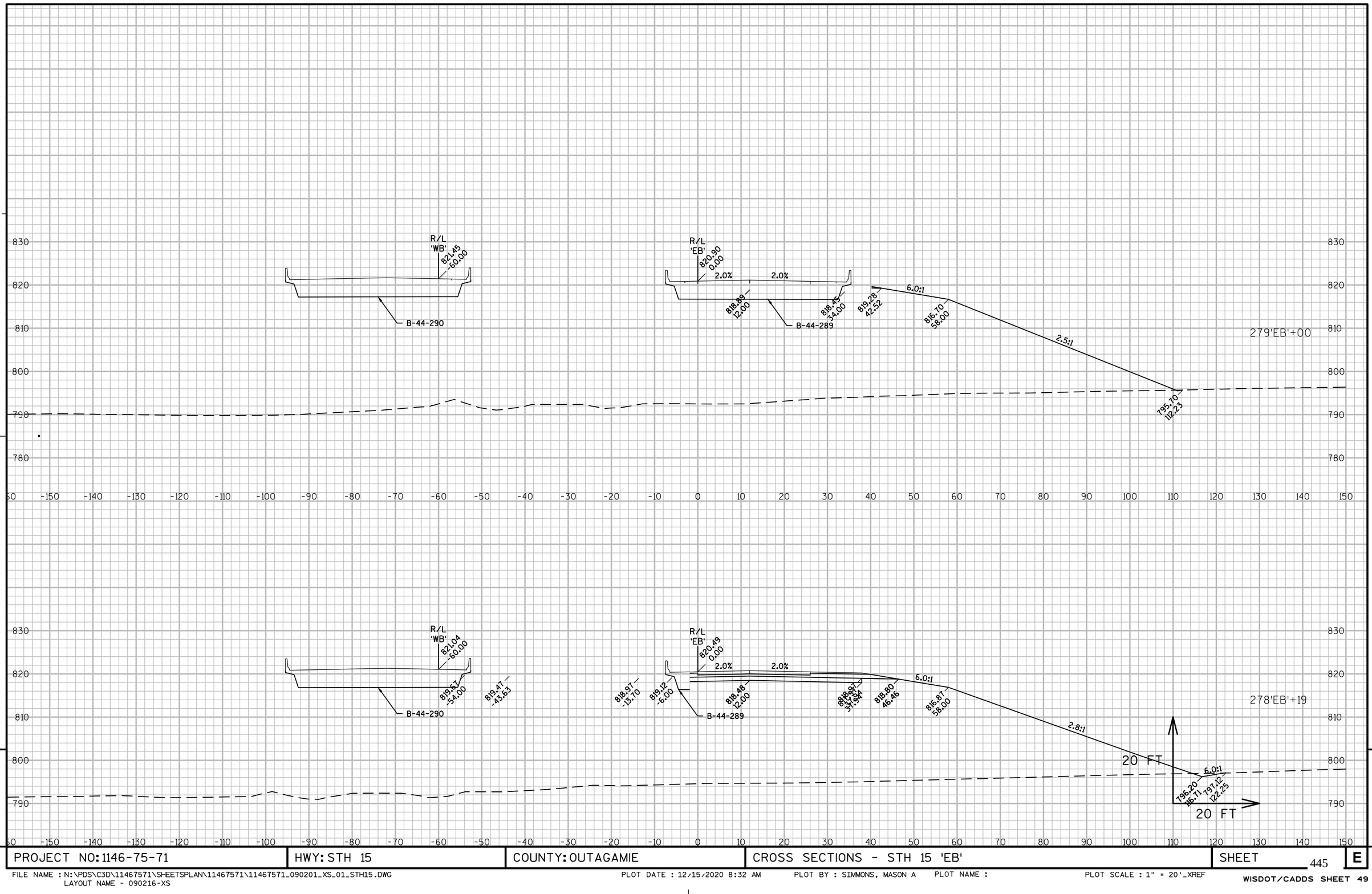
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 444	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_01_STH15.DWG
LAYOUT NAME - 090215-XS

PLOT DATE : 12/15/2020 8:32 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



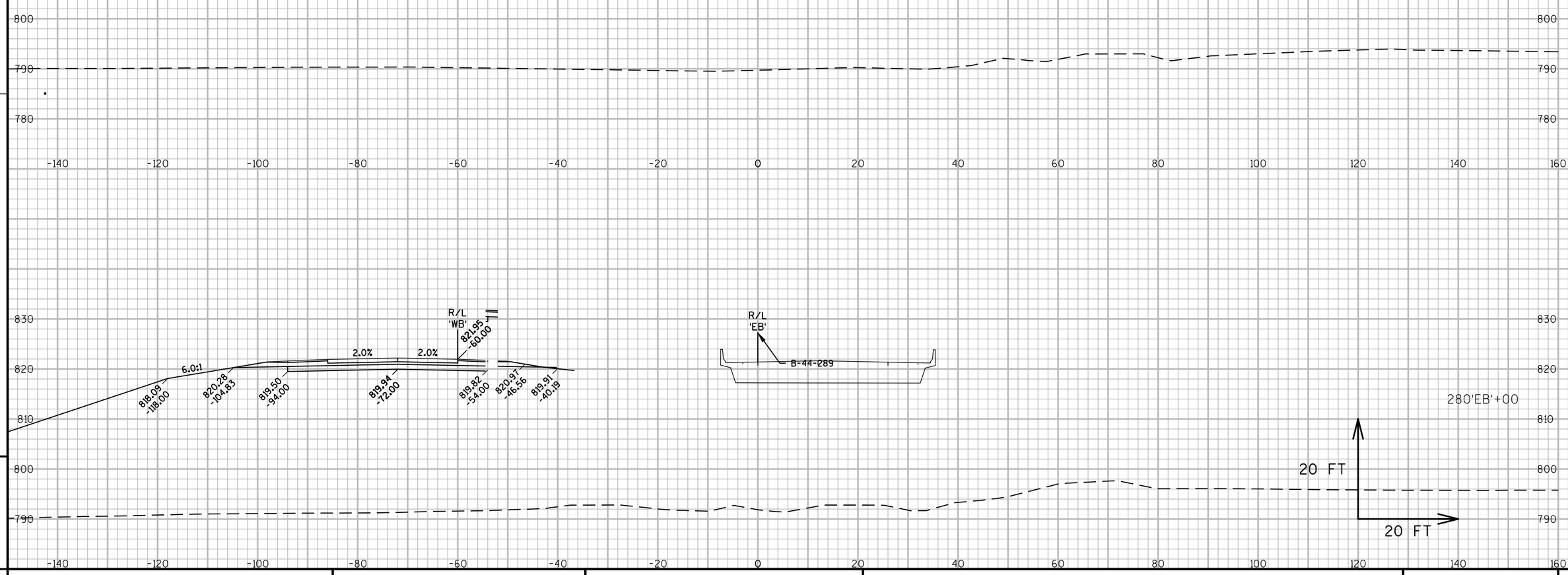
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 445	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_01_STH15.DWG
LAYOUT NAME - 090216-XS

PLOT DATE : 12/15/2020 8:32 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49





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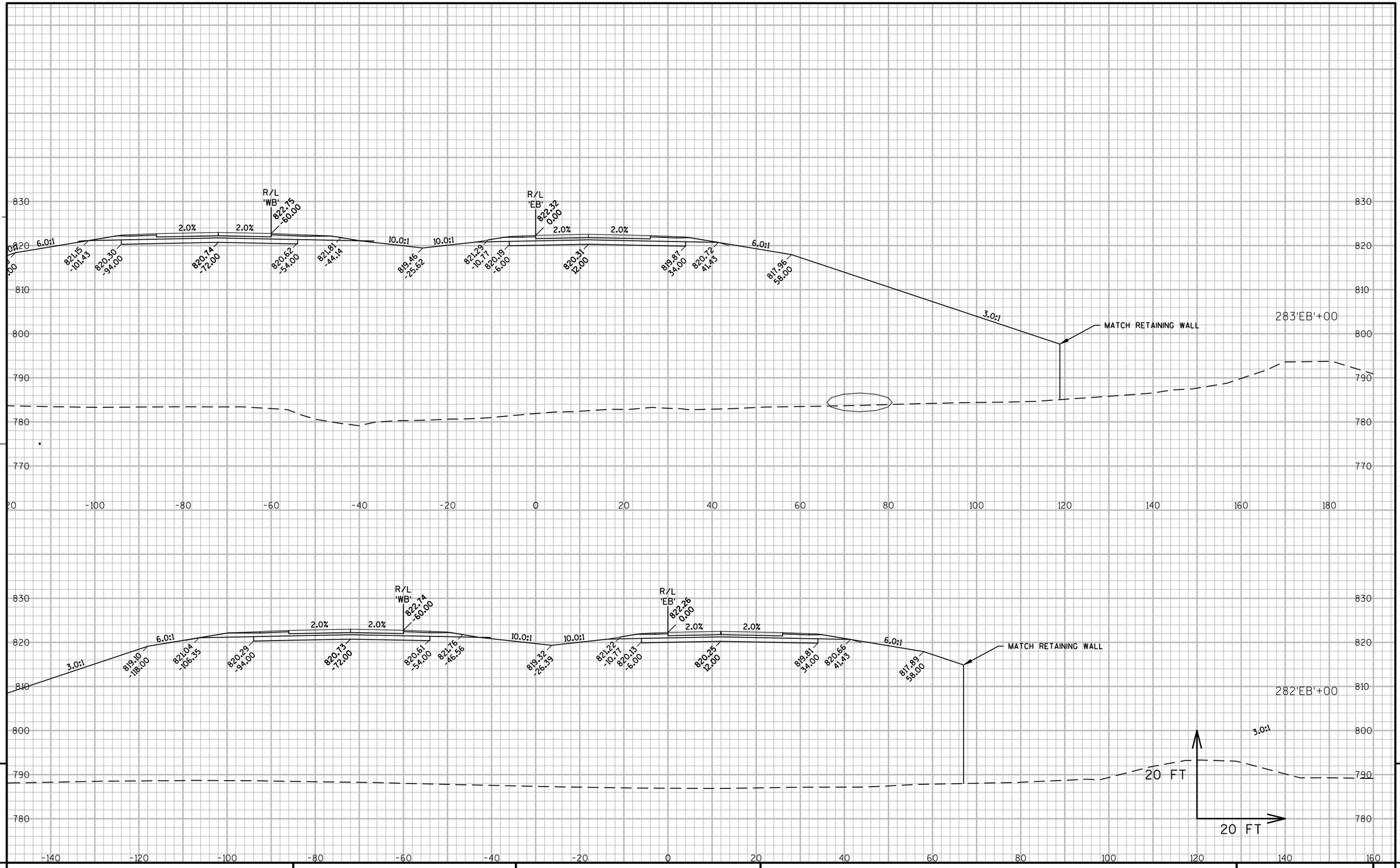
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 446	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090217_XS

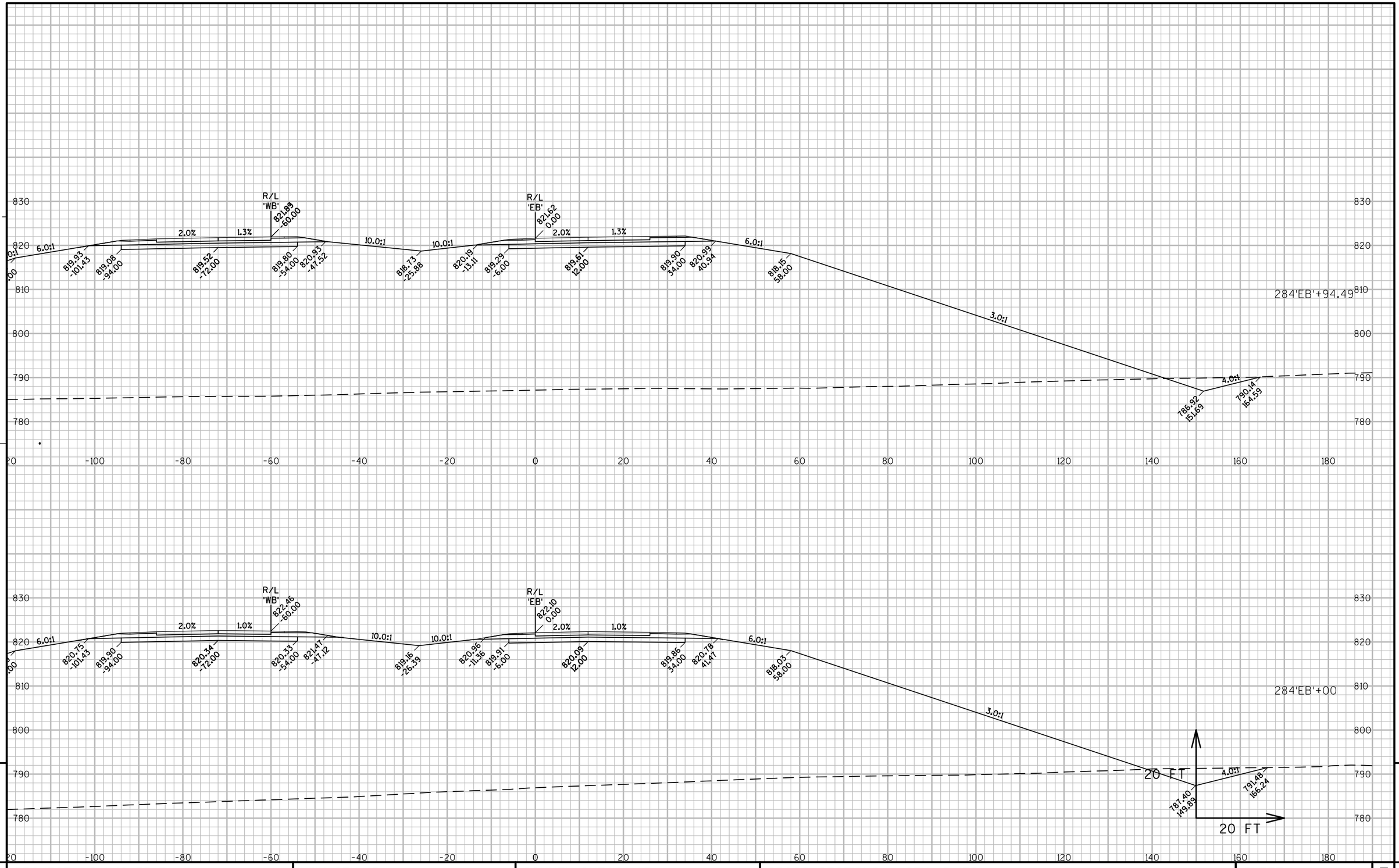
PLOT DATE : 12/15/2020 8:43 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 447 E

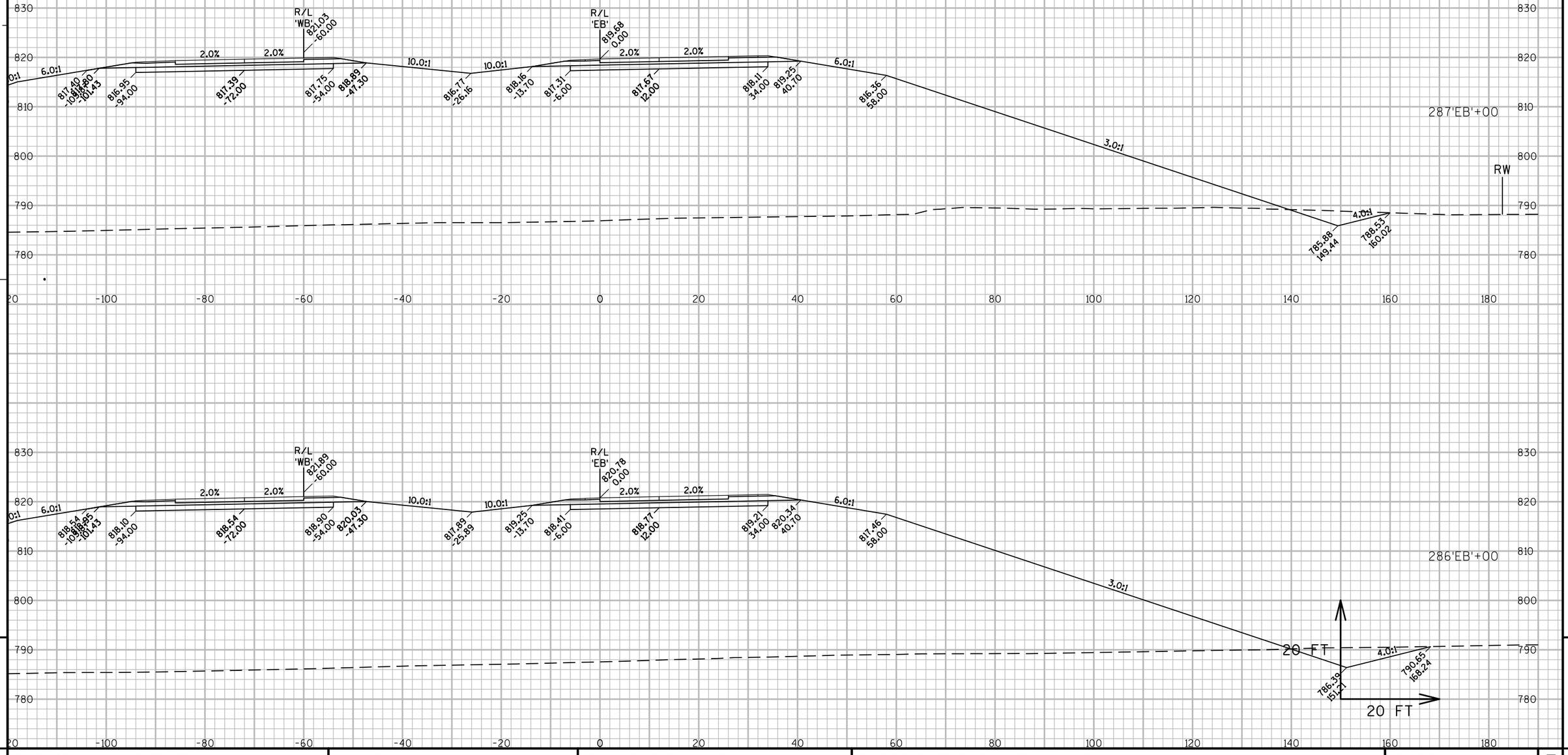
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LAYOUT NAME - 090218_XS
PLOT DATE : 12/15/2020 8:43 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 448	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090219_XS

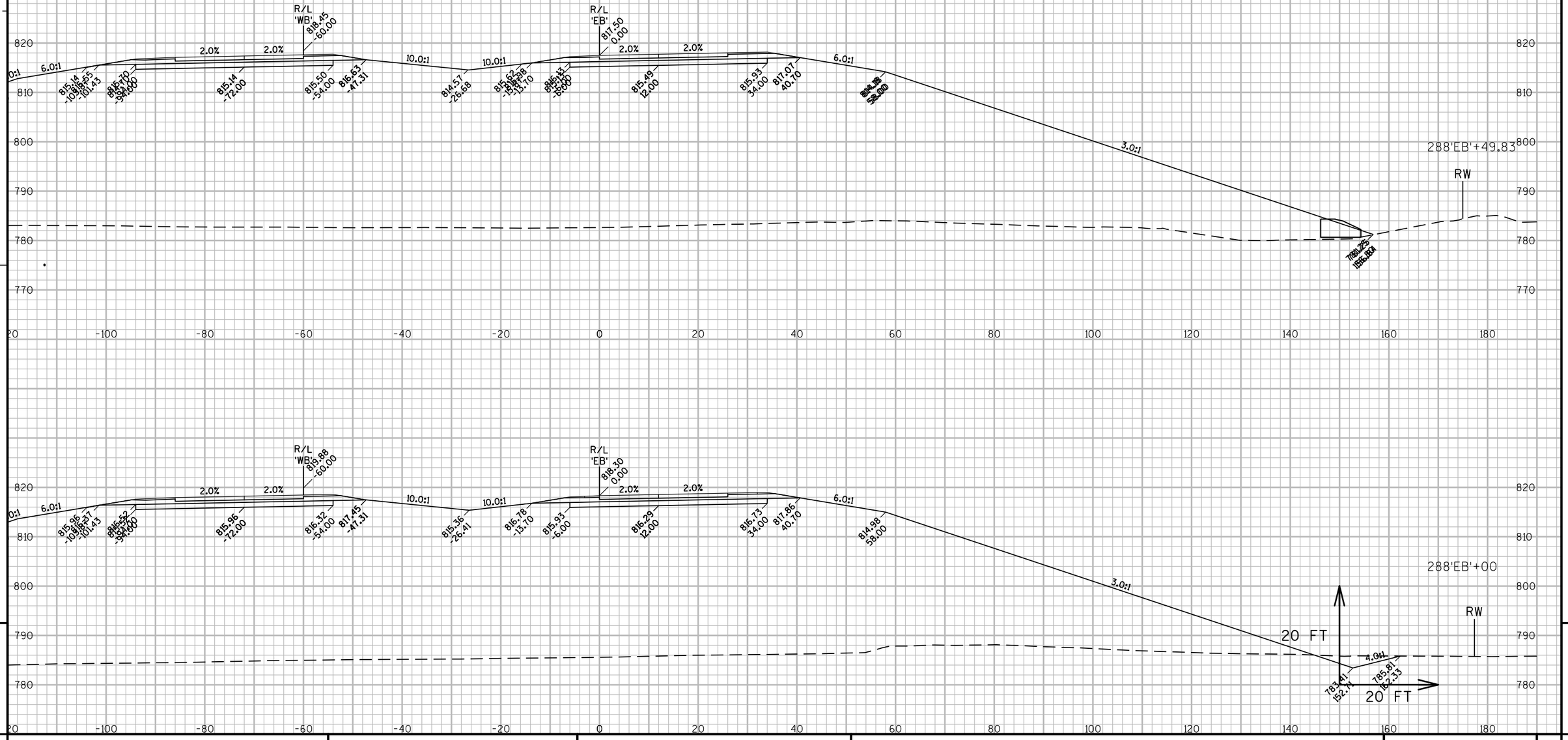
PLOT DATE : 12/15/2020 8:44 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 449	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090220_XS

PLOT DATE : 12/15/2020 8:44 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



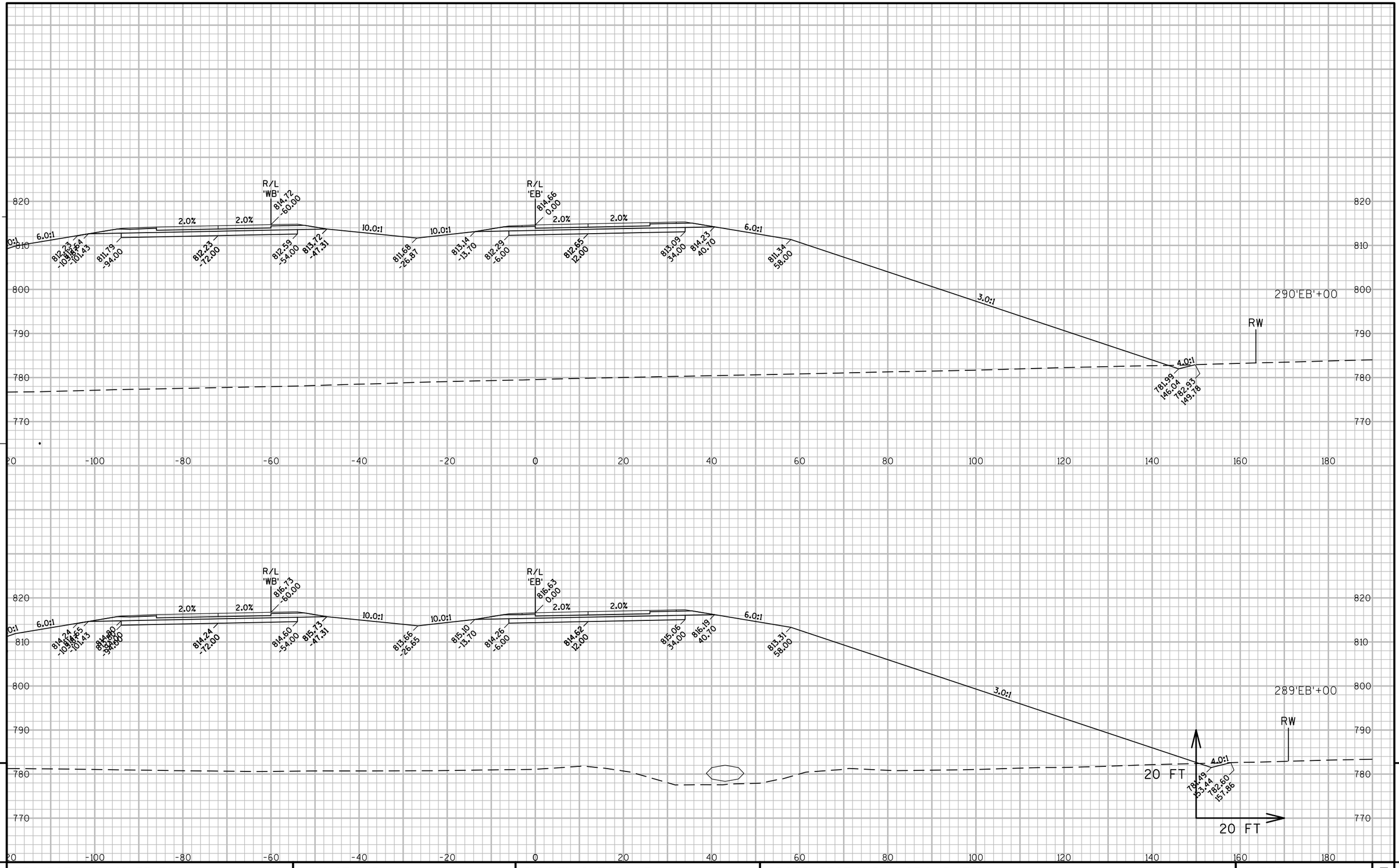
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 450	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090221_XS

PLOT DATE : 12/15/2020 8:44 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

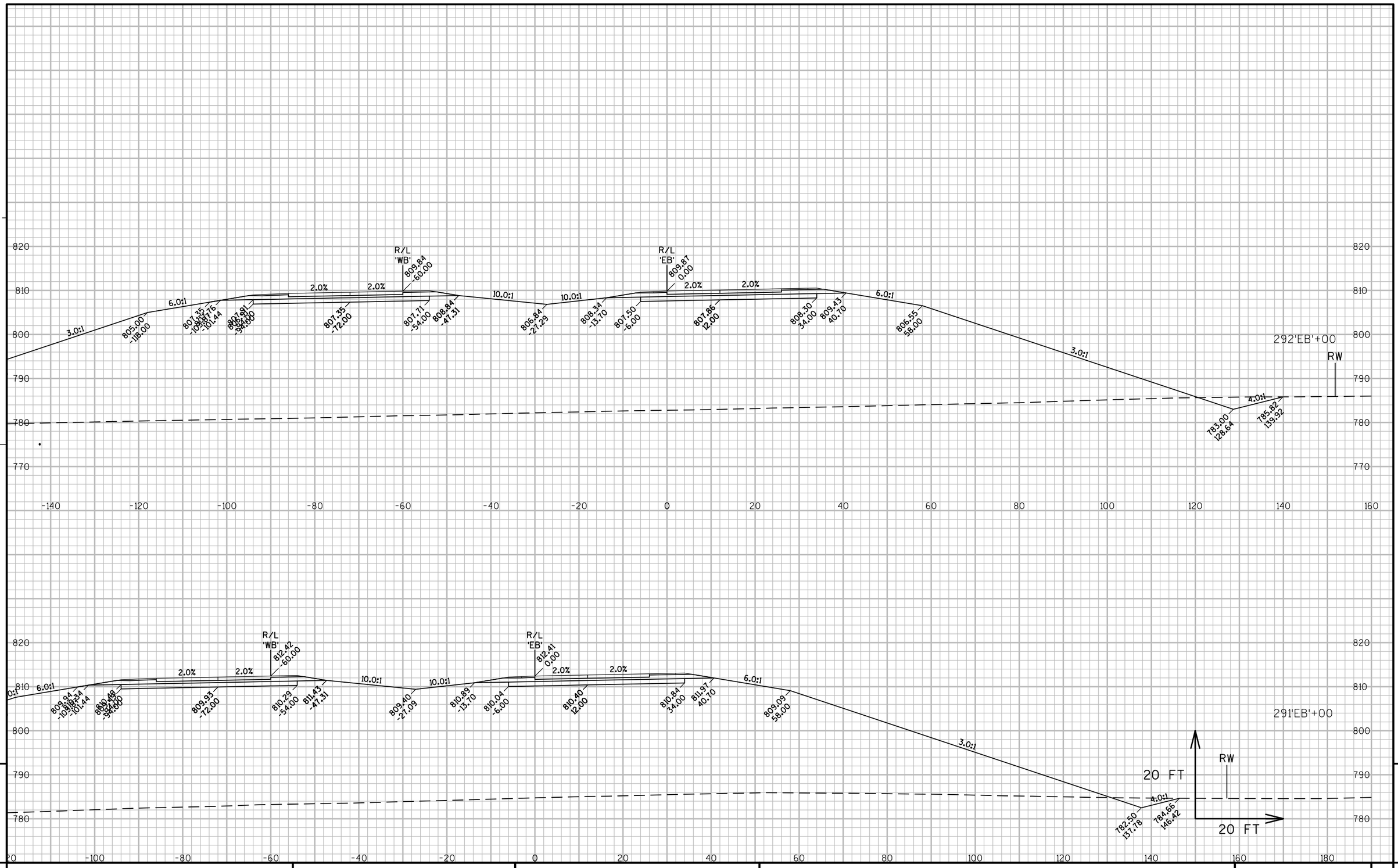


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 451	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090222_XS

PLOT DATE : 12/15/2020 8:44 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

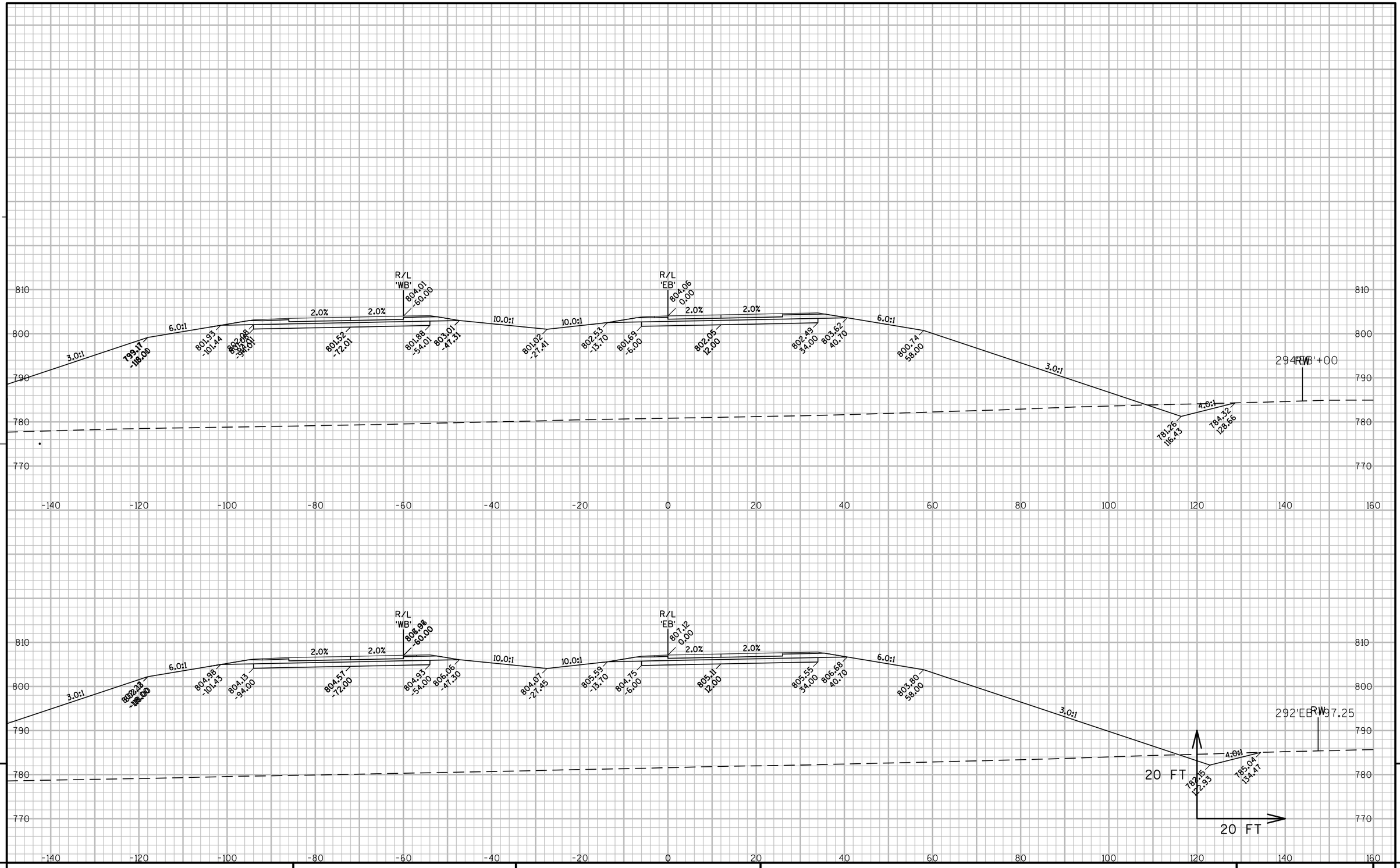


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 452	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090223_XS

PLOT DATE : 12/15/2020 8:44 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

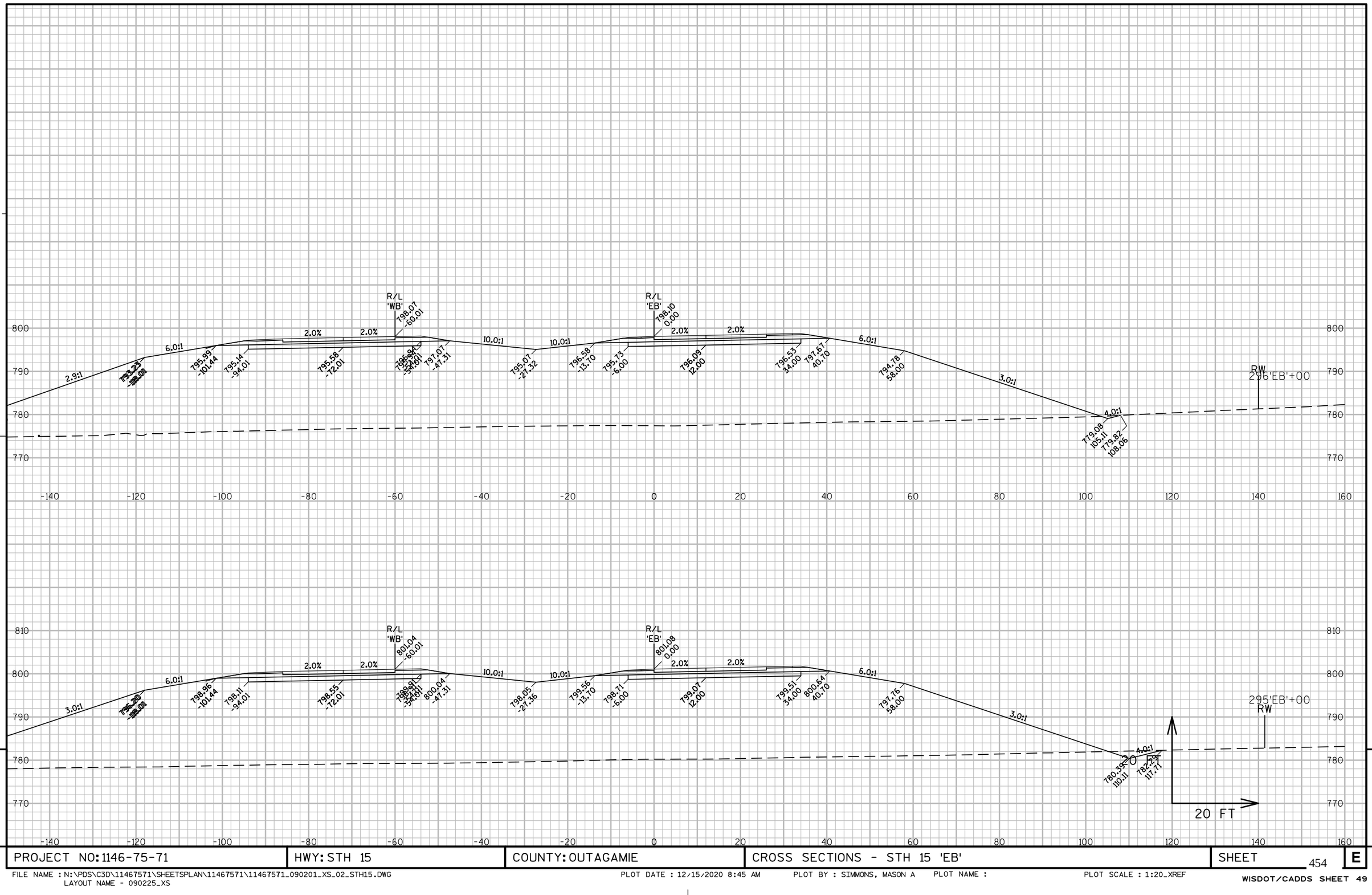


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 453	E

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LAYOUT NAME - 090224_XS

PLOT DATE : 12/15/2020 8:44 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

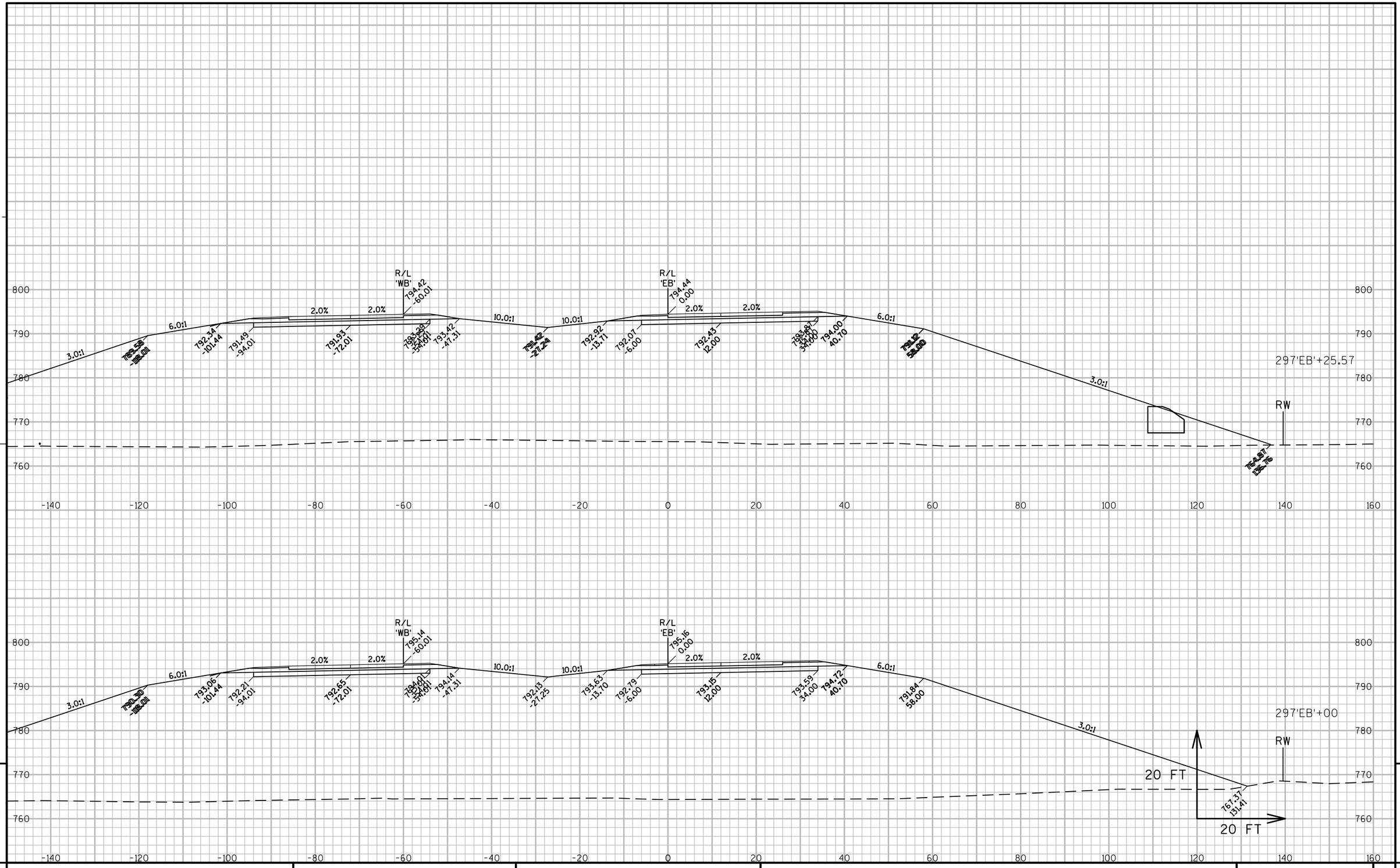
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 454	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090225_XS

PLOT DATE : 12/15/2020 8:45 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

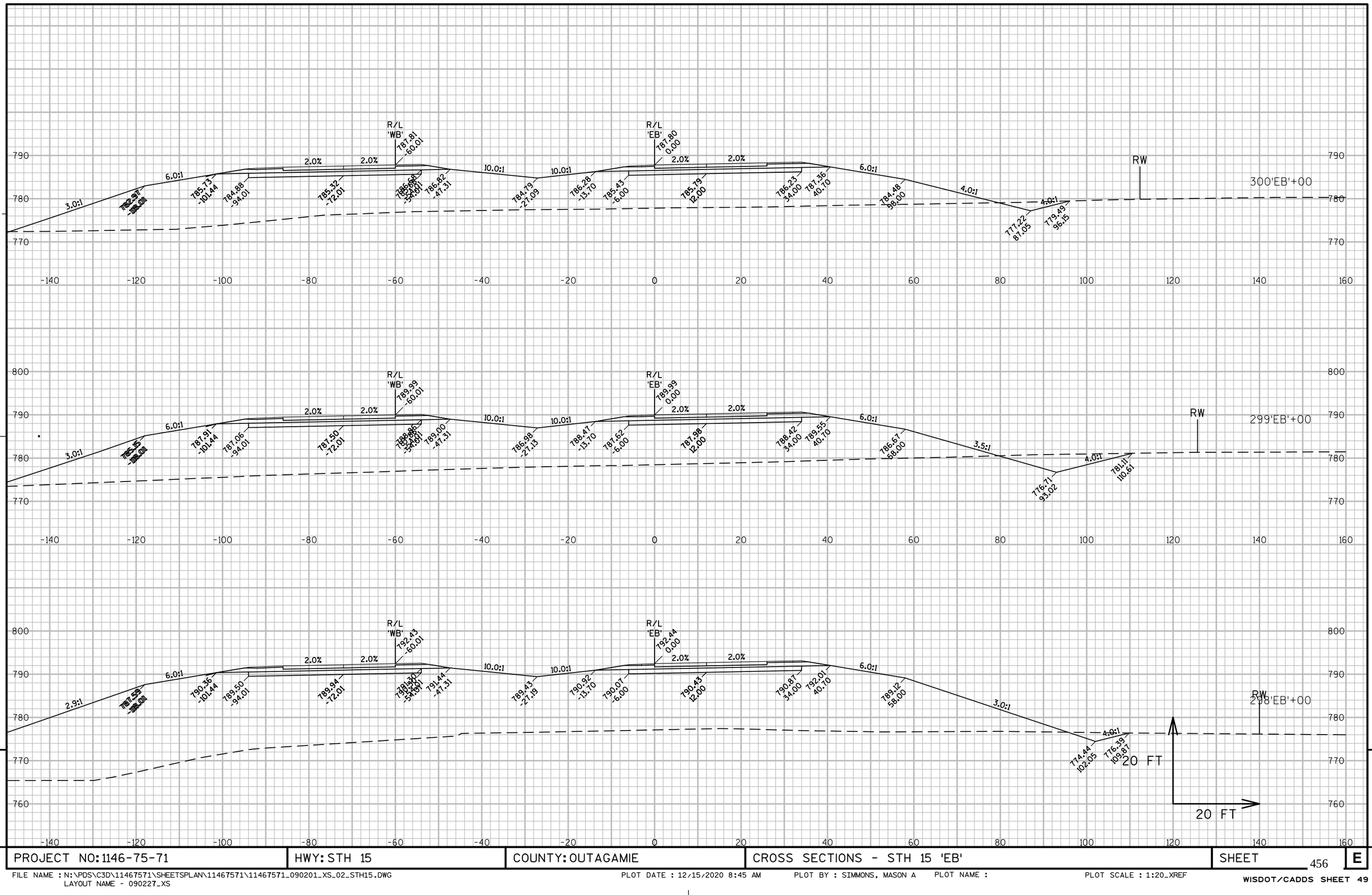


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 455	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090226_XS

PLOT DATE : 12/15/2020 8:45 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



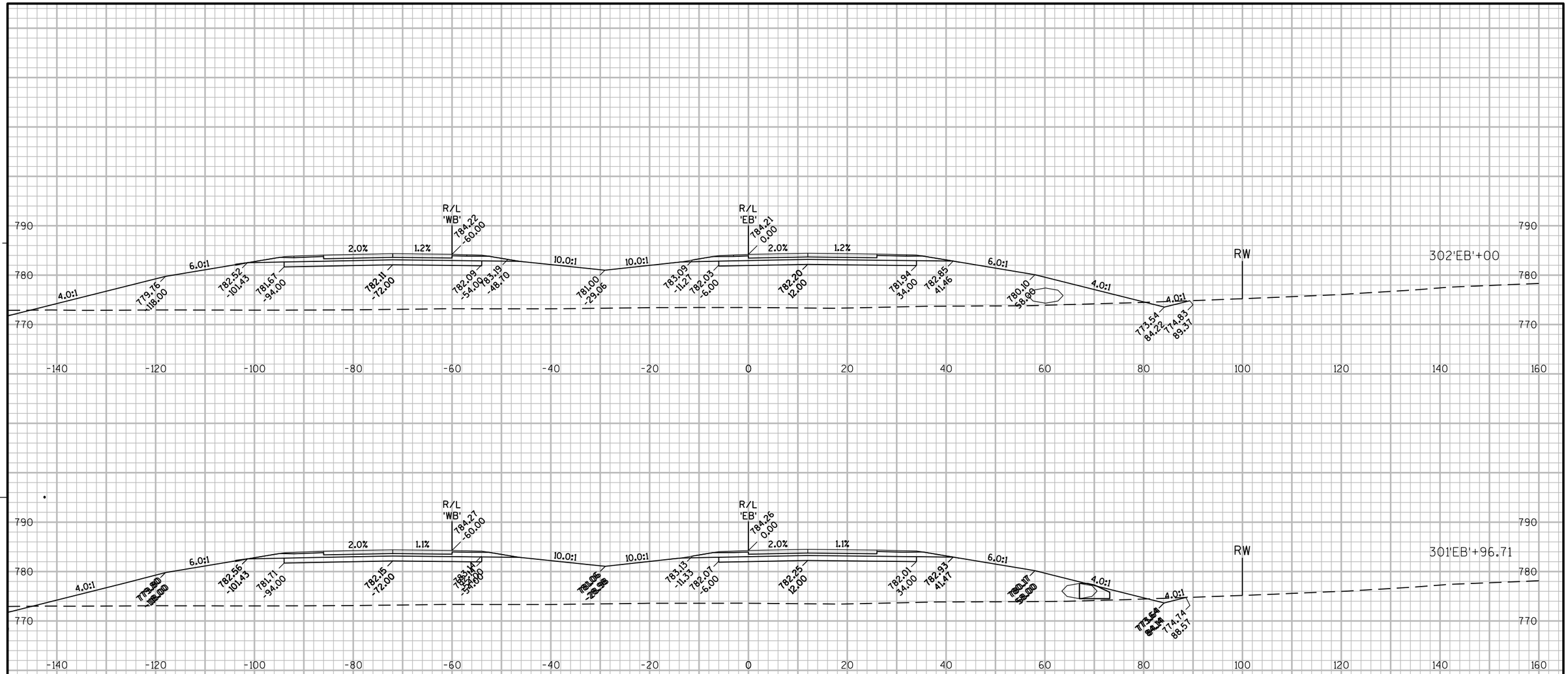
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 456	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090227_XS

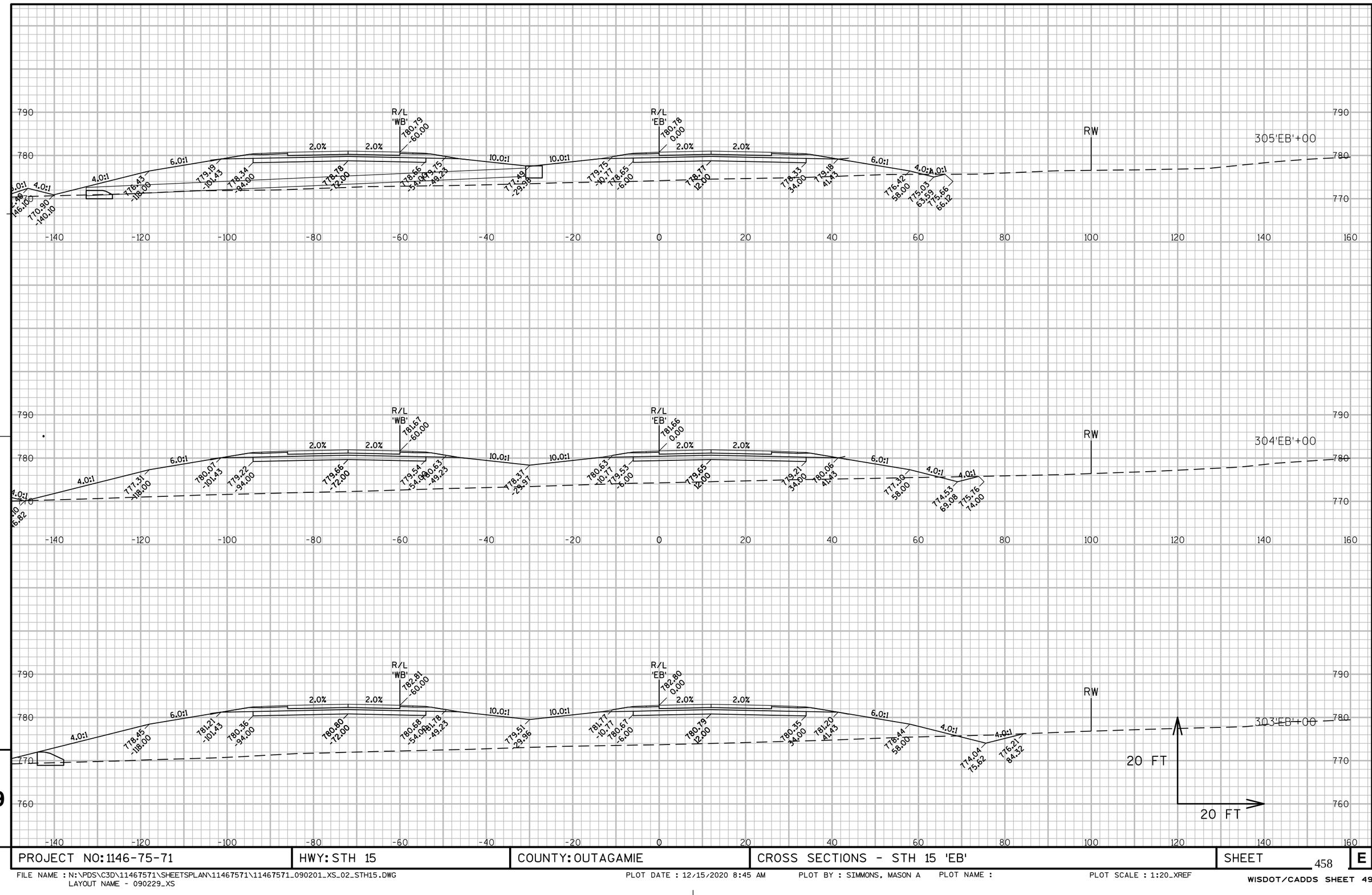
PLOT DATE : 12/15/2020 8:45 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 457	E

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LAYOUT NAME - 090228_XS

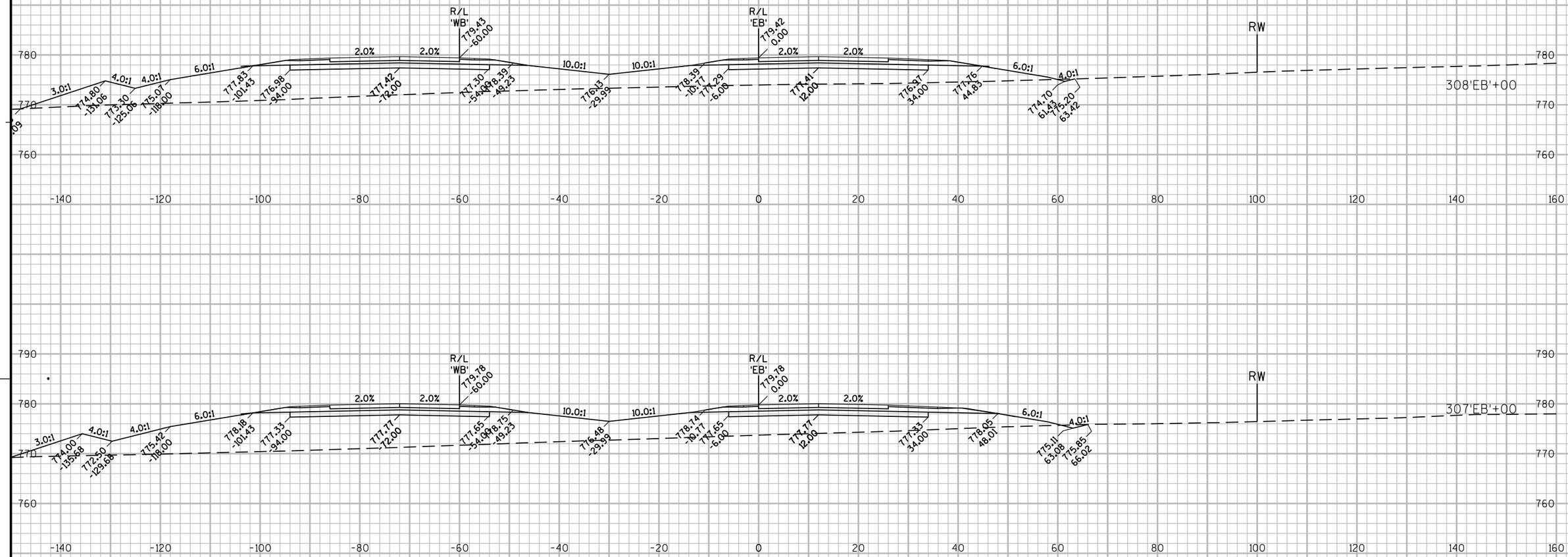
PLOT DATE : 12/15/2020 8:45 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 458	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090229_XS

PLOT DATE : 12/15/2020 8:45 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

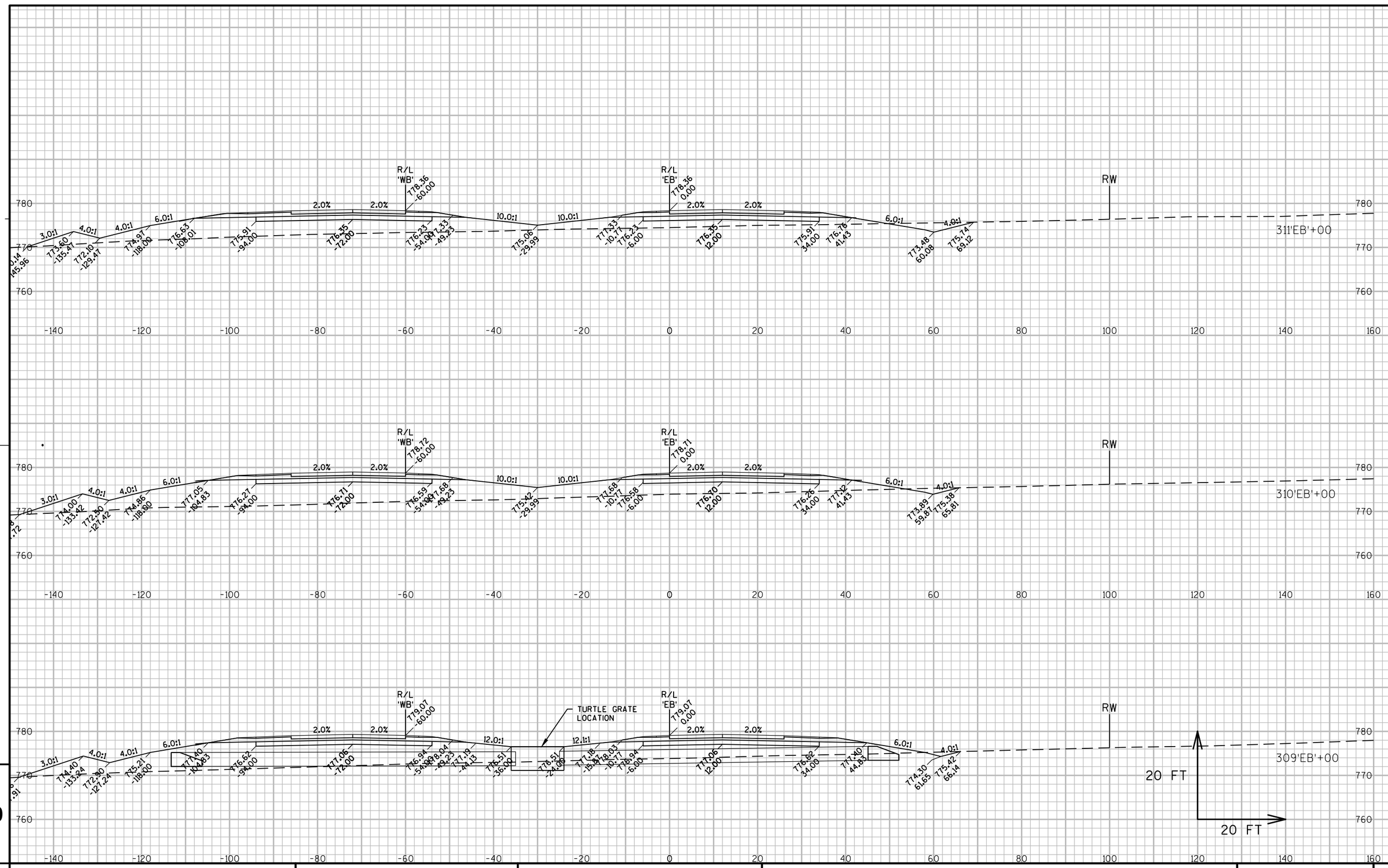


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 459	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090230_XS

PLOT DATE : 12/15/2020 8:45 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

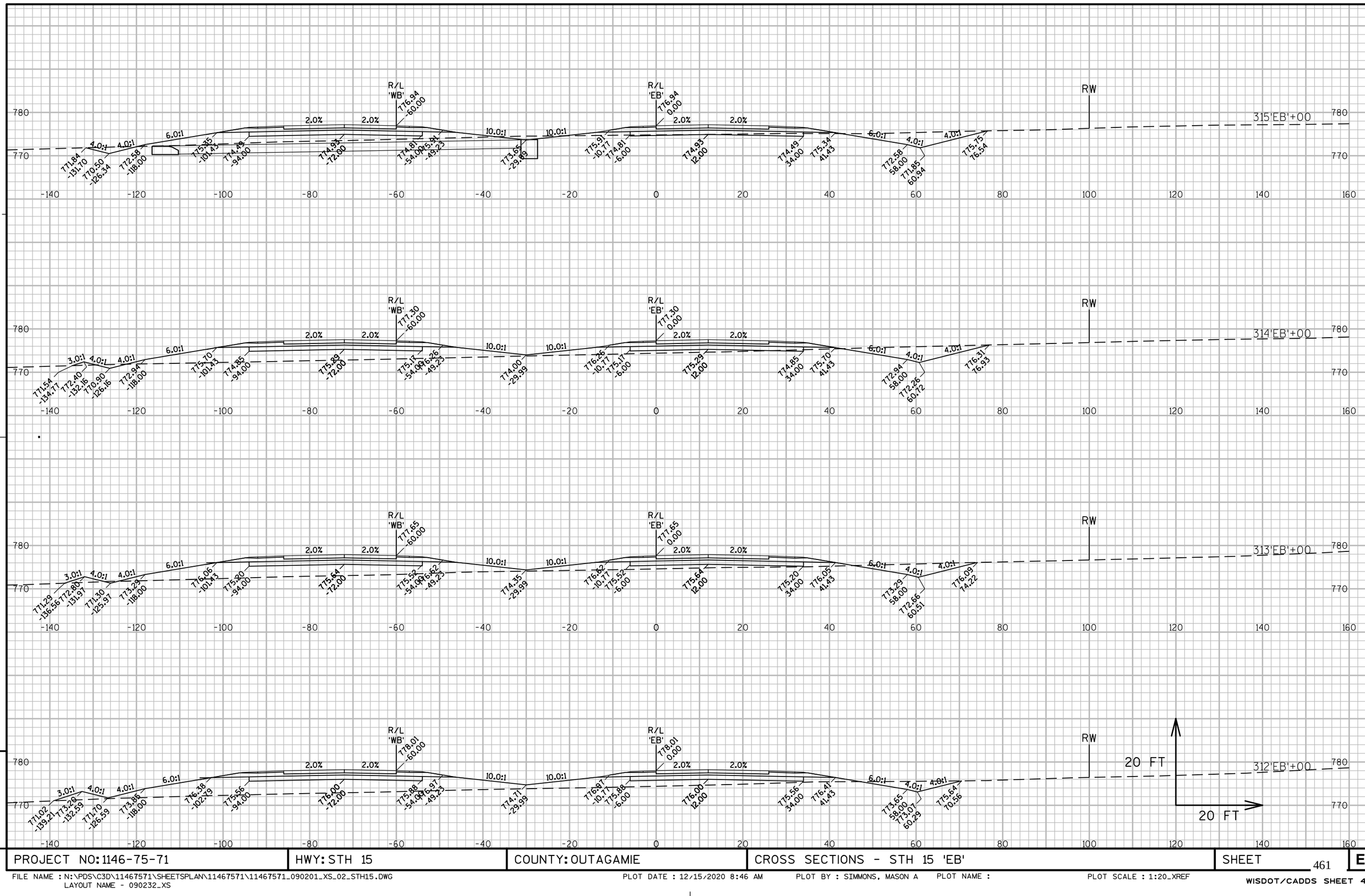


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 460	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090231_XS

PLOT DATE : 12/15/2020 8:46 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



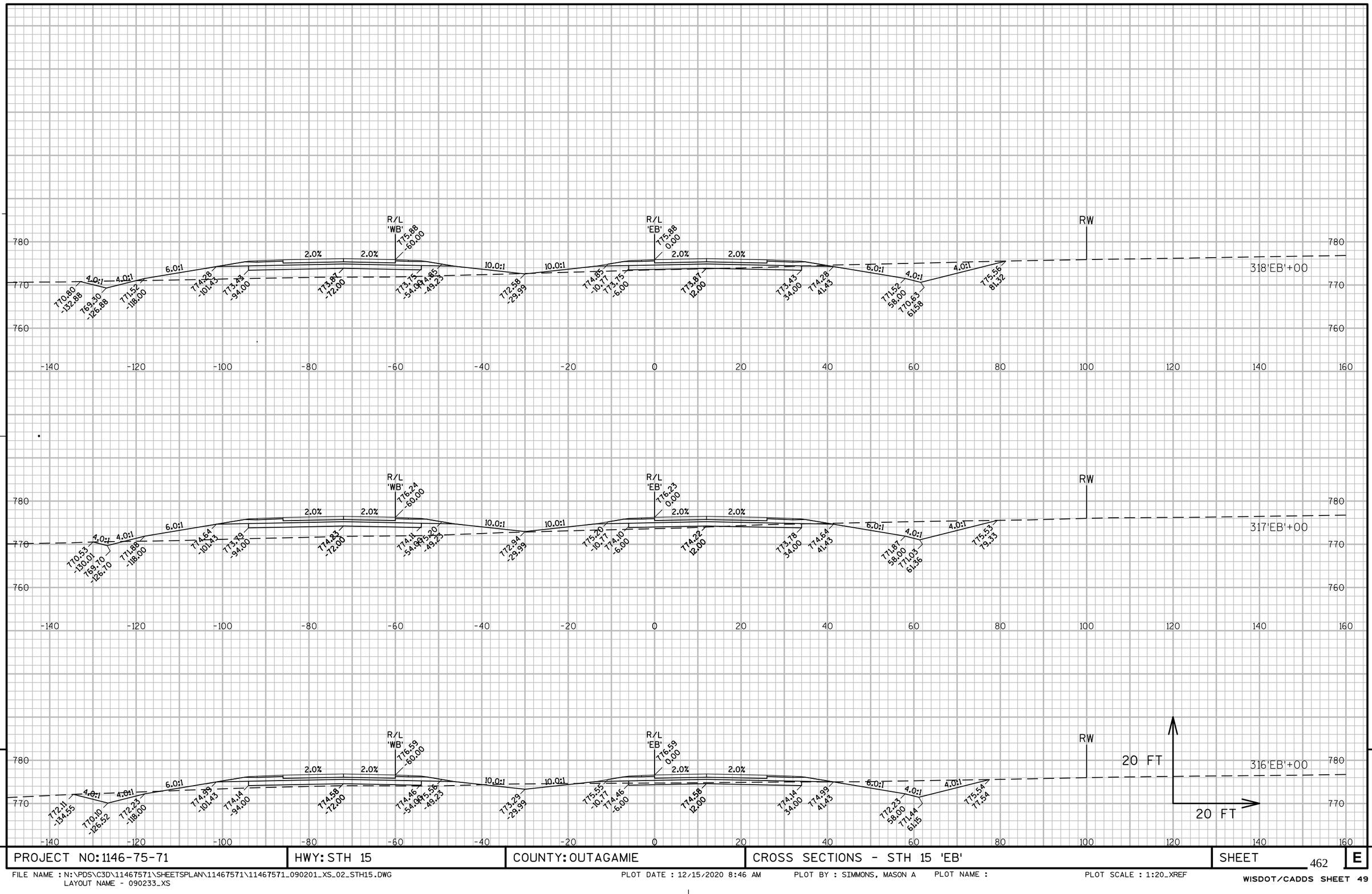
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 461	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090232_XS

PLOT DATE : 12/15/2020 8:46 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



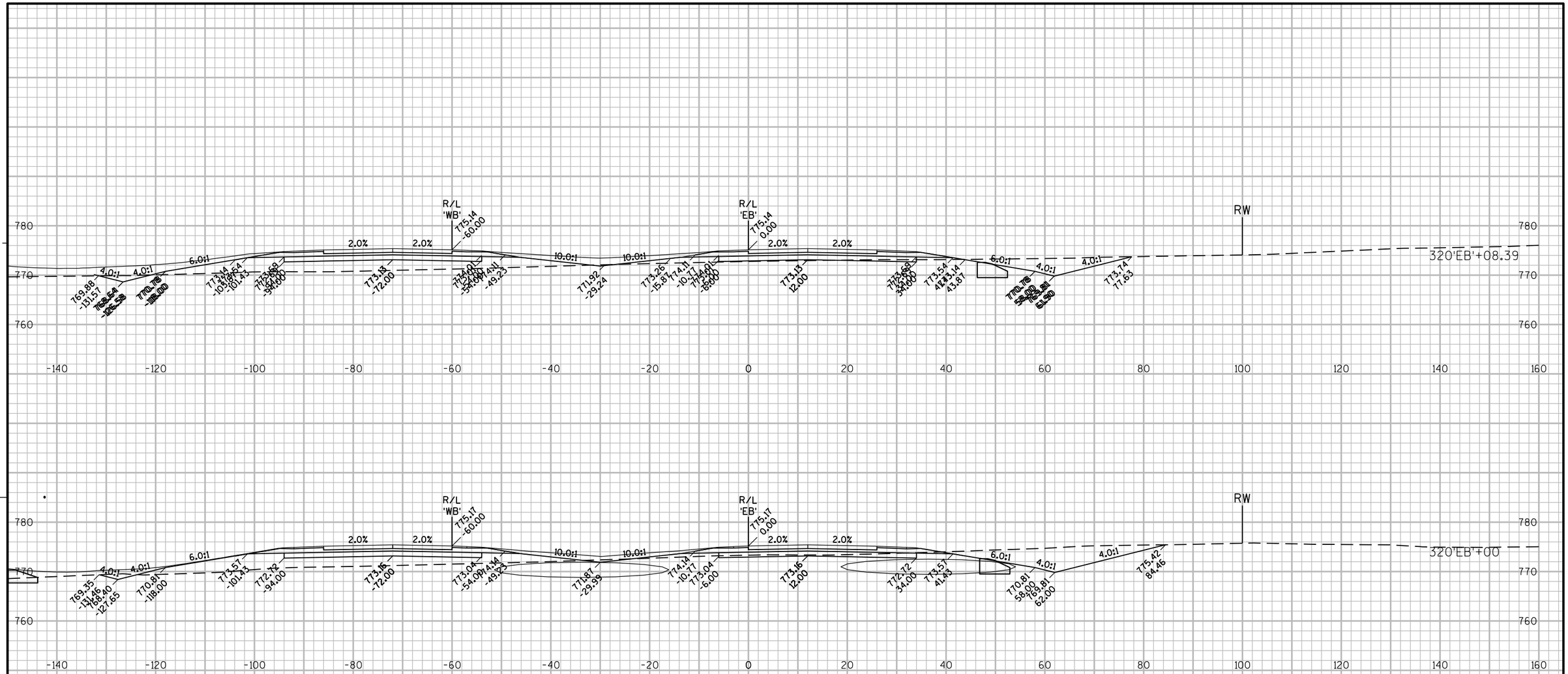
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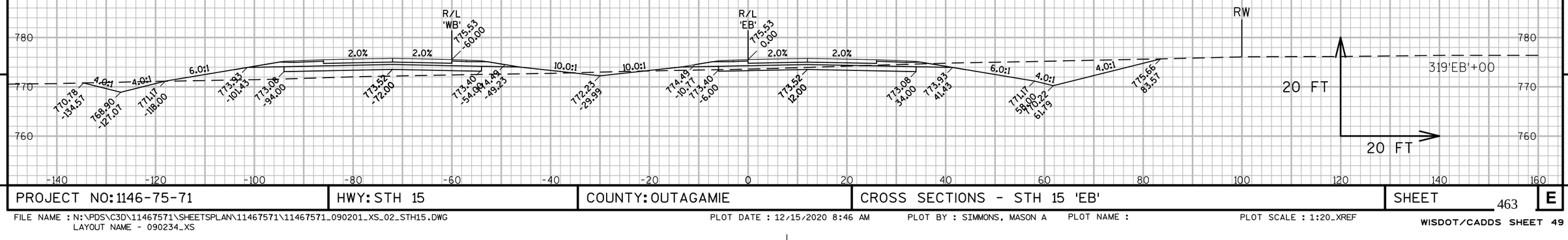
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 462	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090233_XS

PLOT DATE : 12/15/2020 8:46 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49





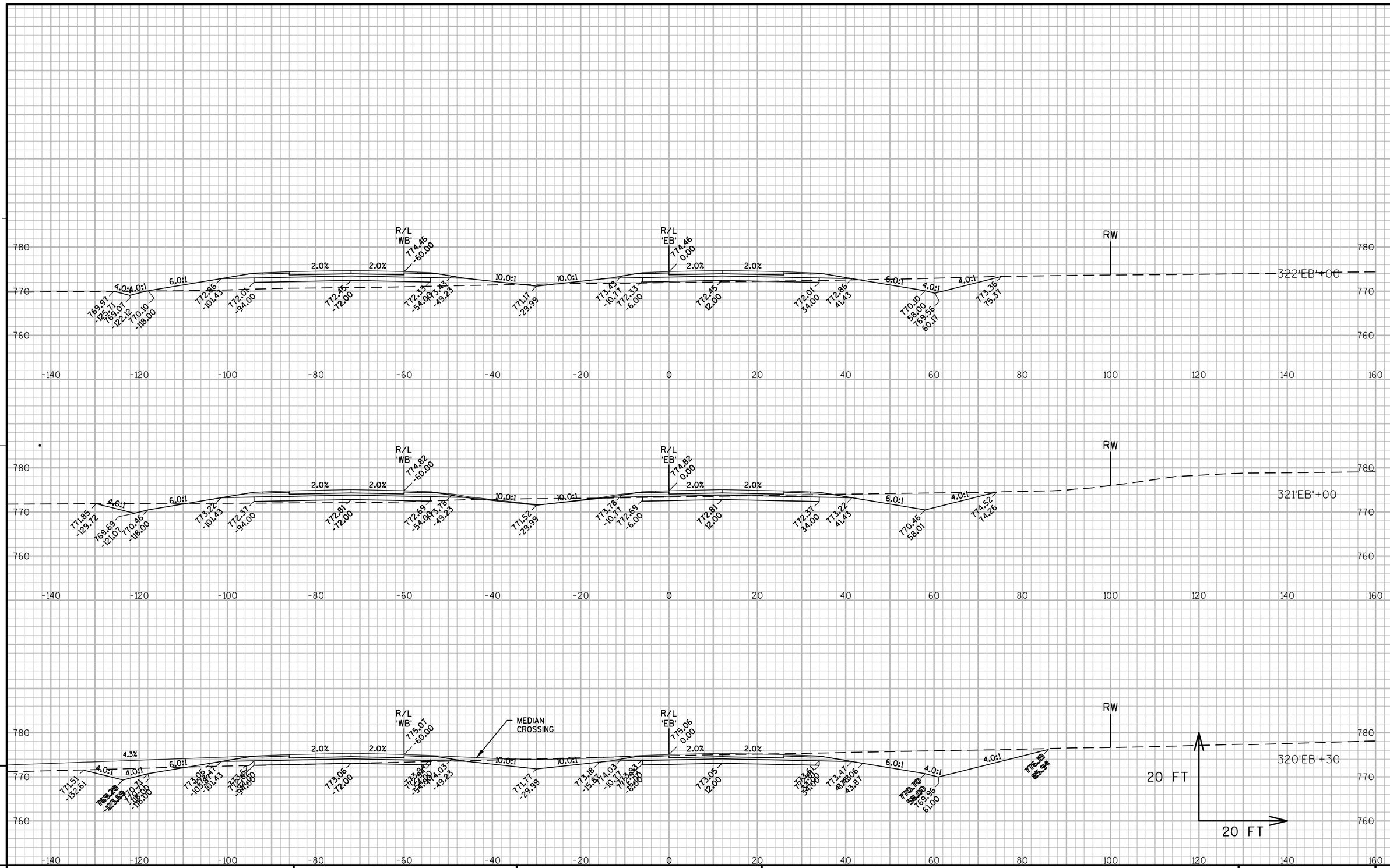
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 463	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090234_XS

PLOT DATE : 12/15/2020 8:46 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

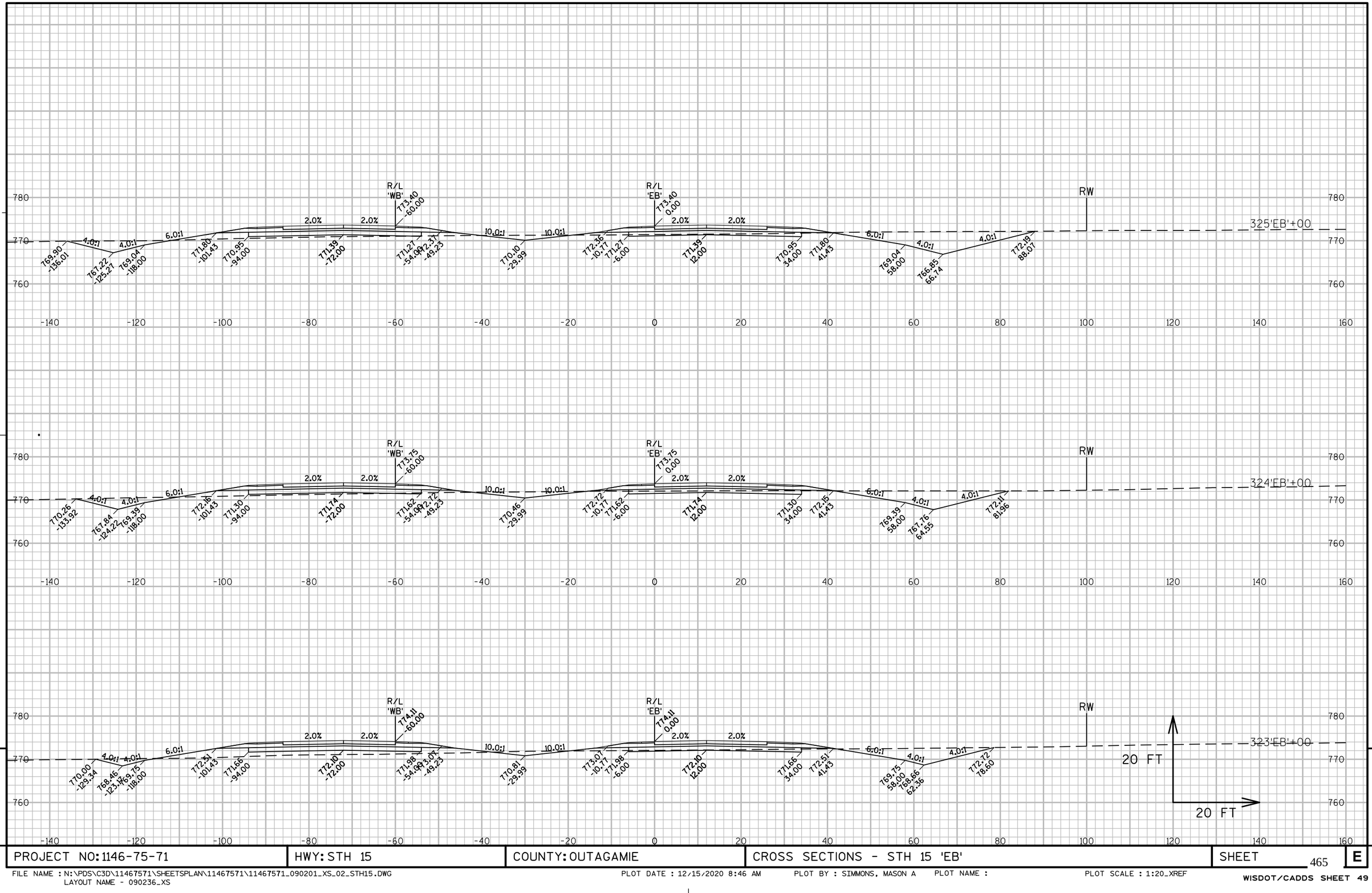


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 464	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090235_XS

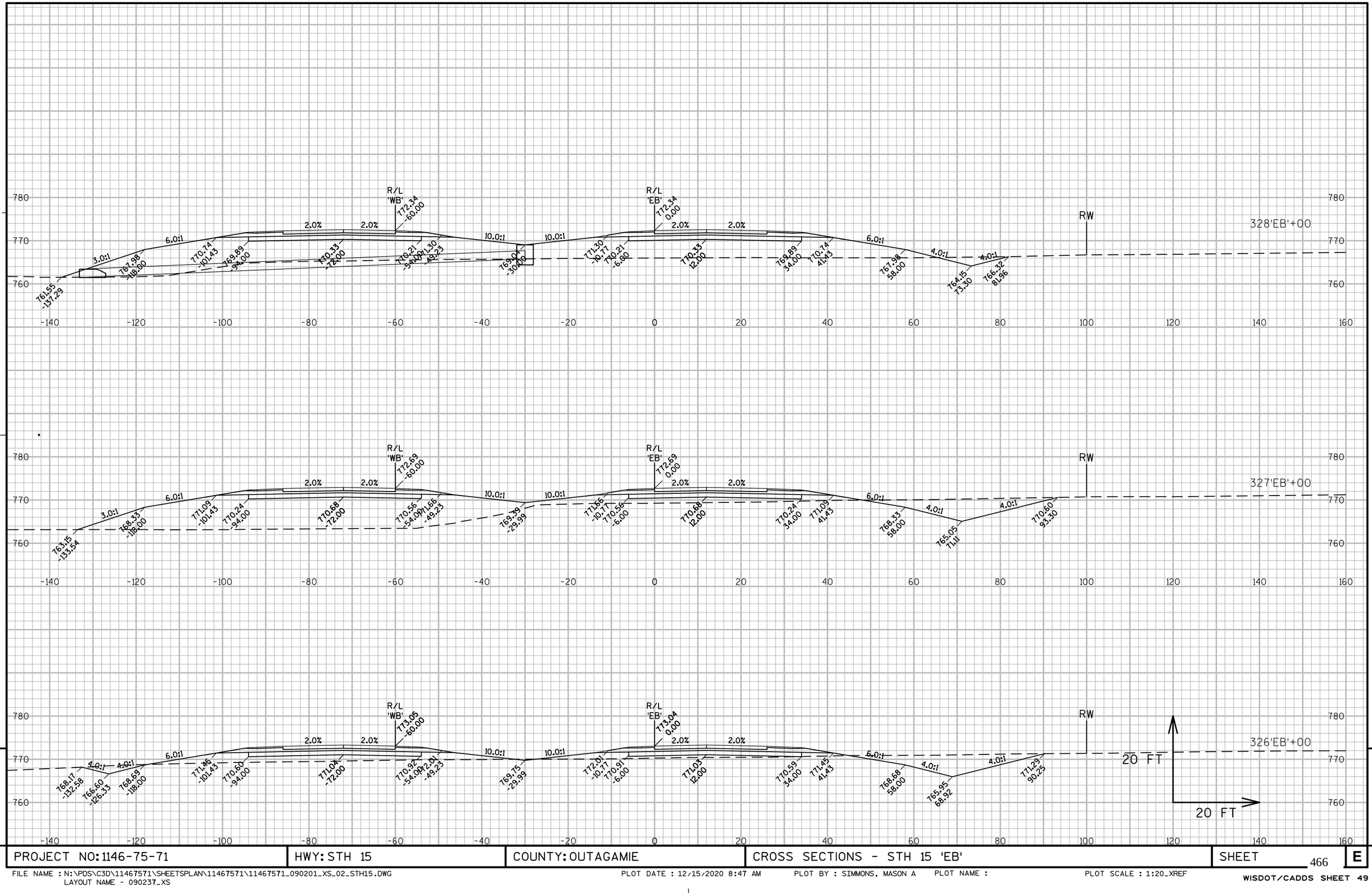
PLOT DATE : 12/15/2020 8:46 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

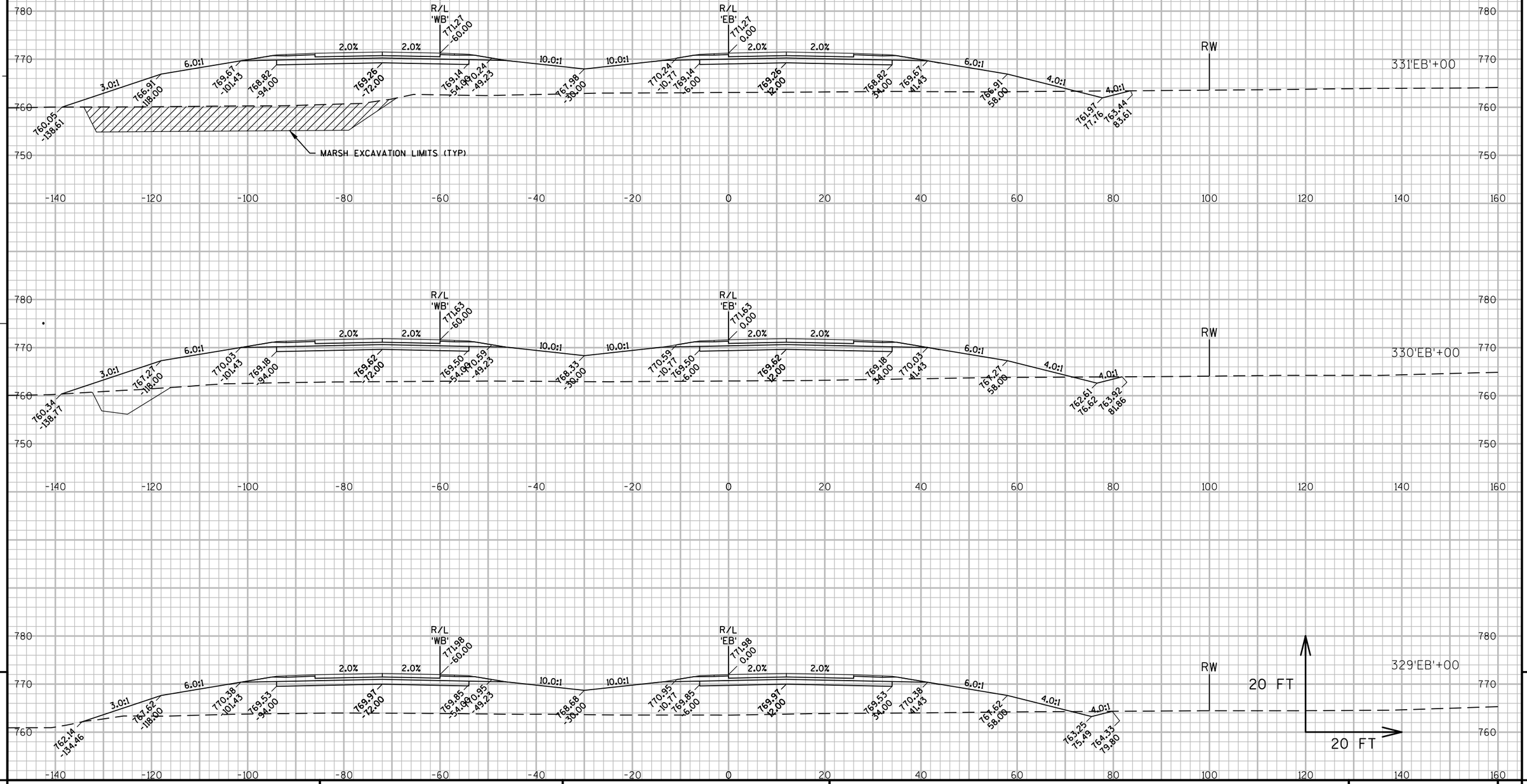


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 465	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090236_XS
PLOT DATE : 12/15/2020 8:46 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 466	E

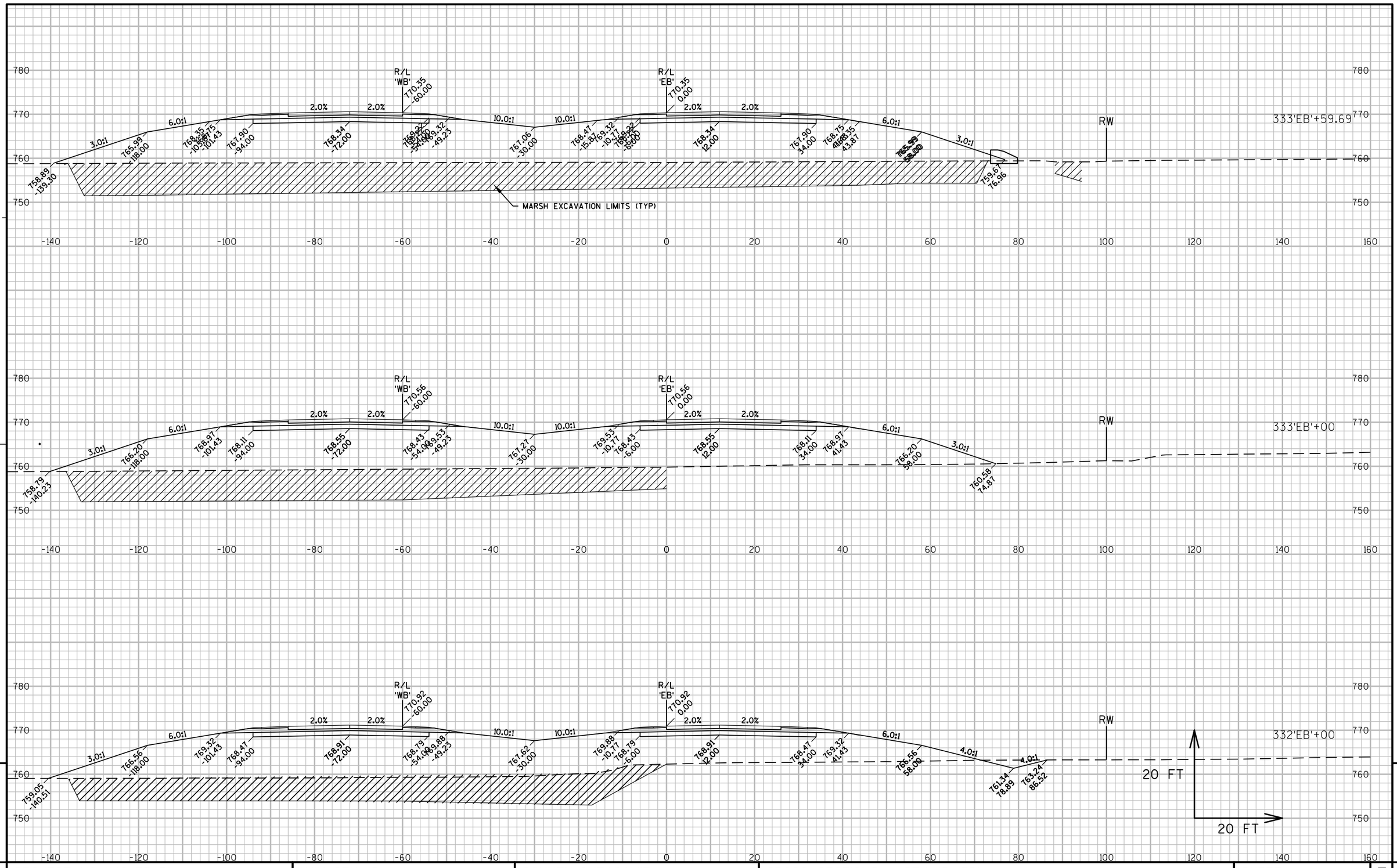


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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 467	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090238_XS

PLOT DATE : 12/15/2020 8:47 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 468	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090239_XS

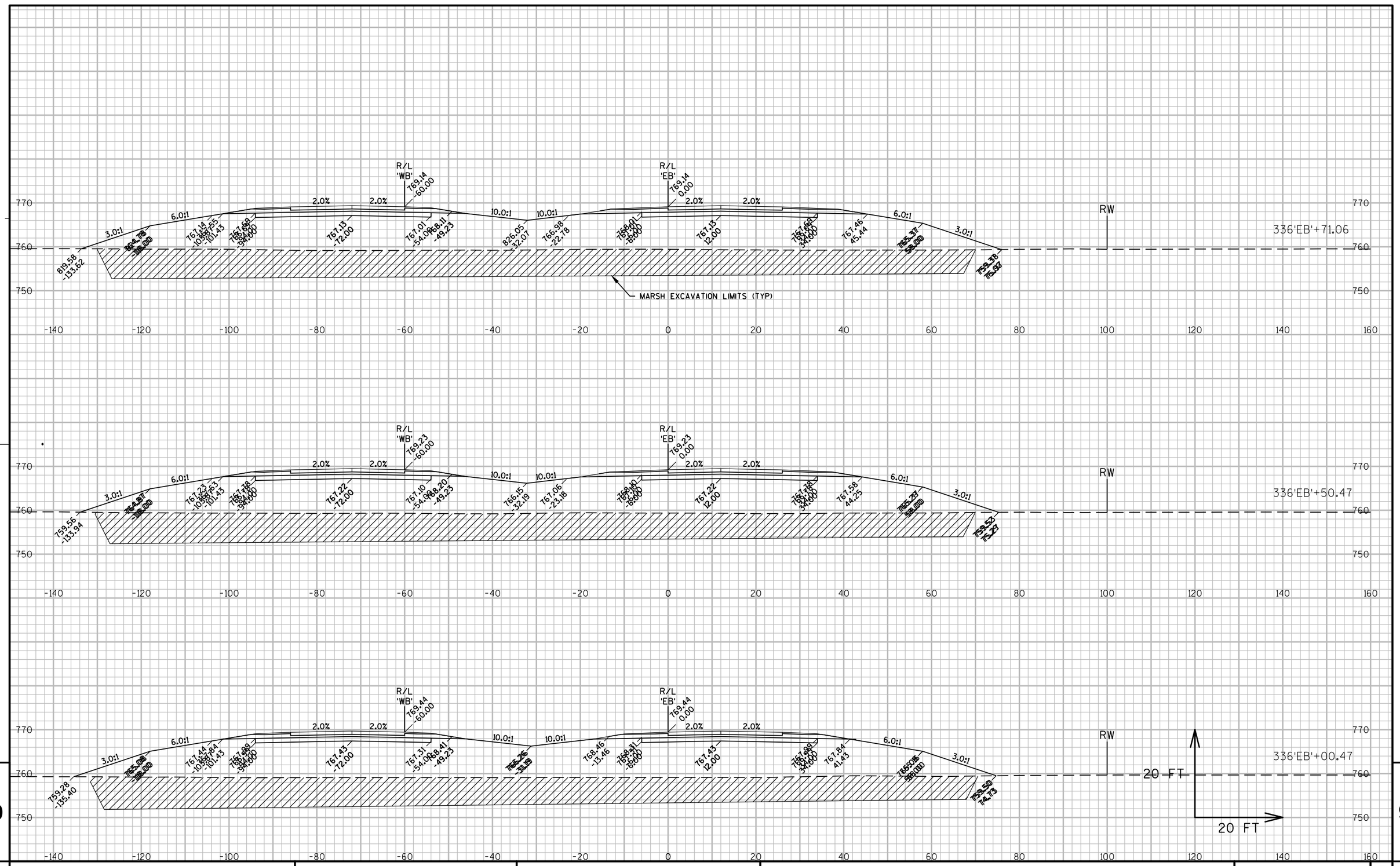
PLOT DATE : 12/15/2020 8:47 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 469	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090240_XS

PLOT DATE : 12/15/2020 8:47 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



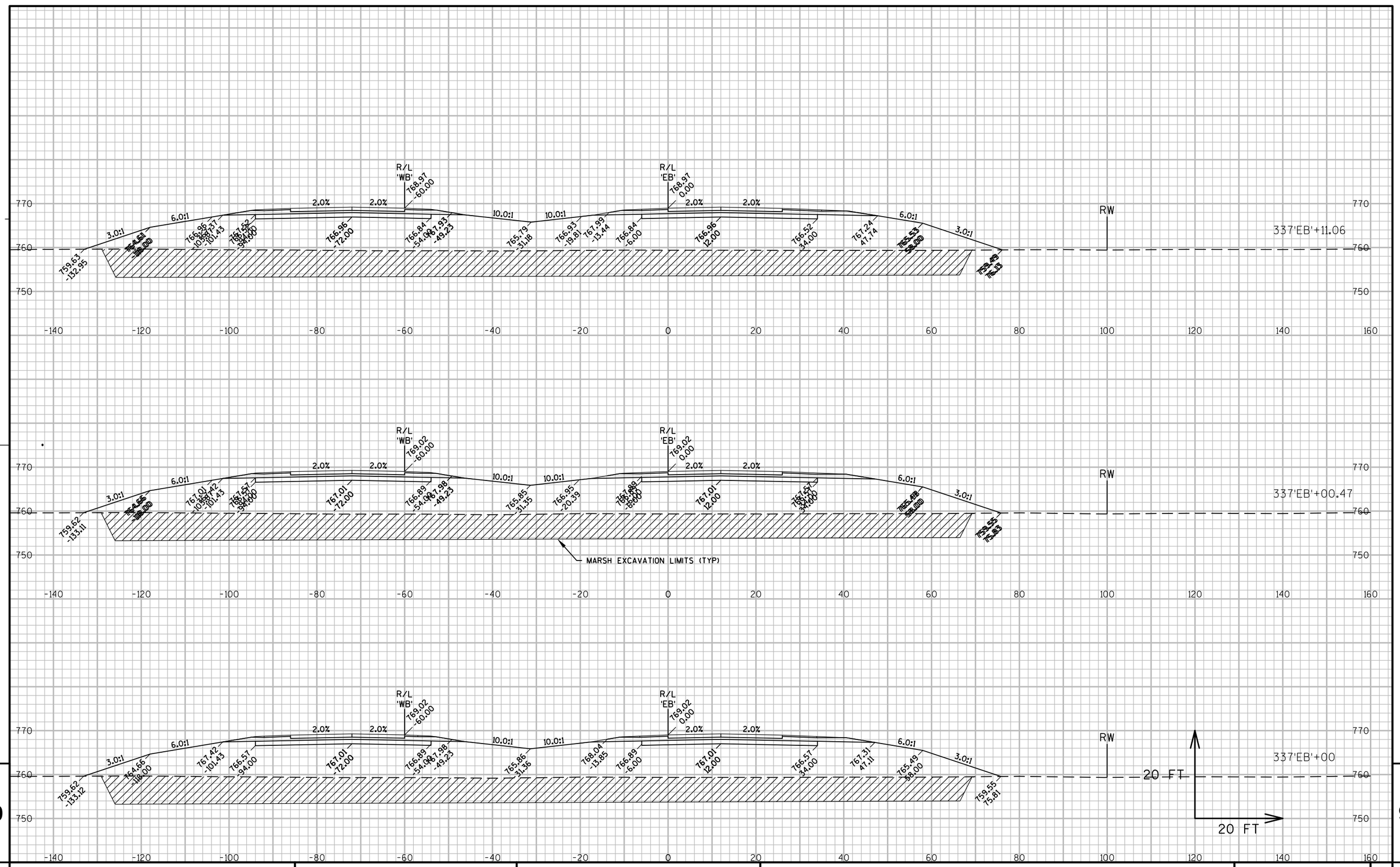
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 470	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090241_XS

PLOT DATE : 12/15/2020 8:47 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



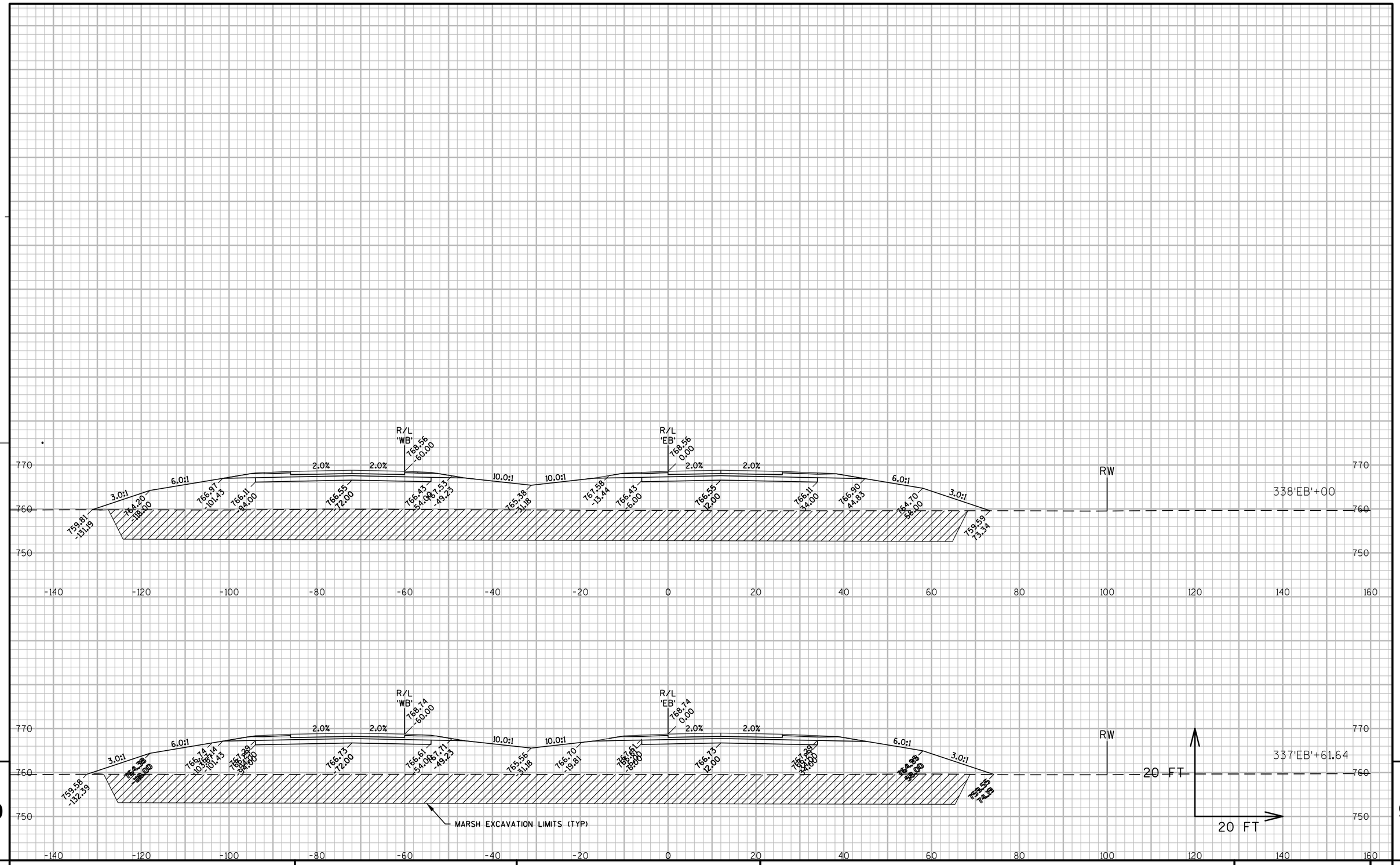
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9

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 471	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090242_XS

PLOT DATE : 12/15/2020 8:48 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

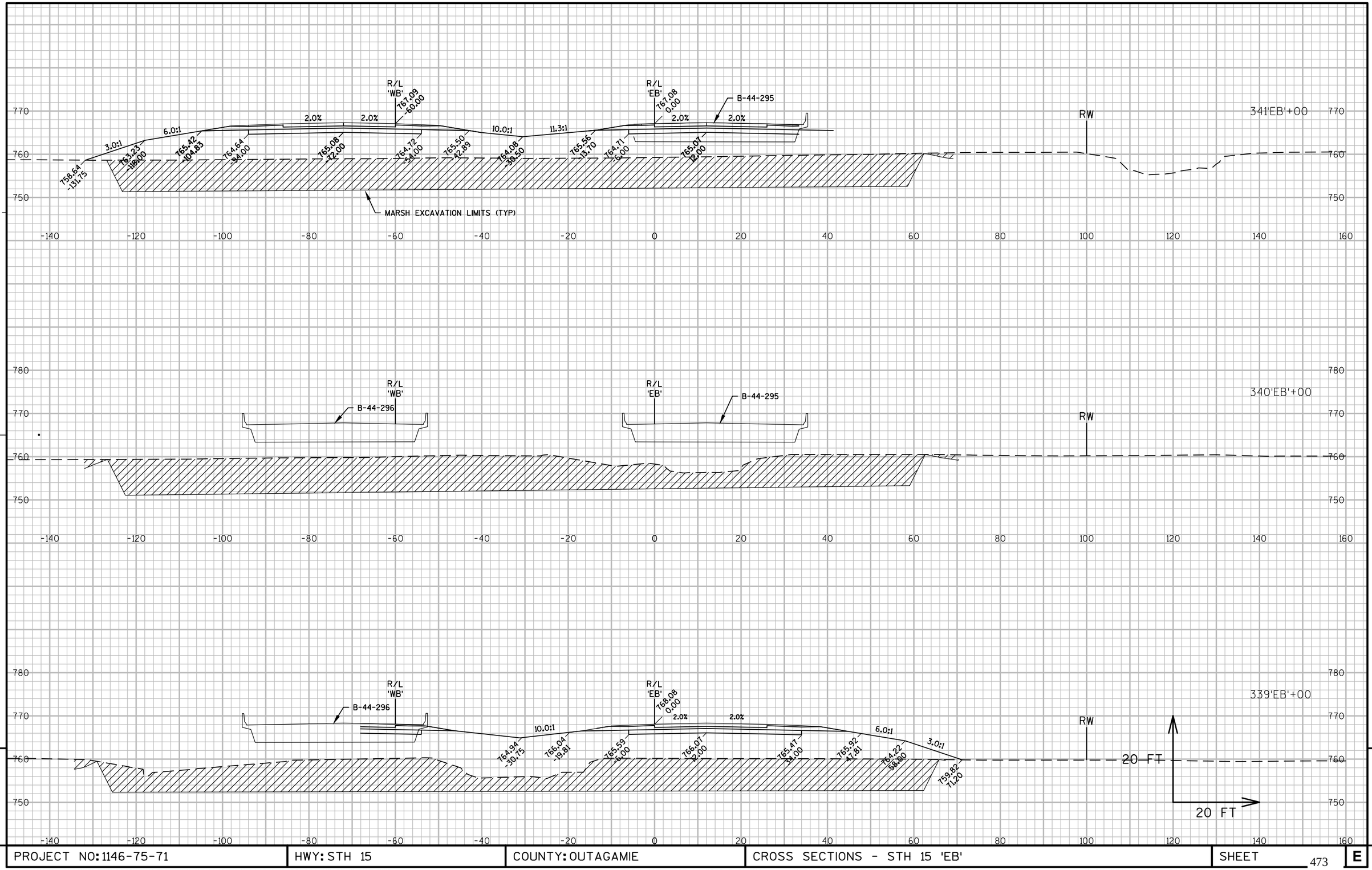


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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 472	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090243_XS
PLOT DATE : 12/15/2020 8:48 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49

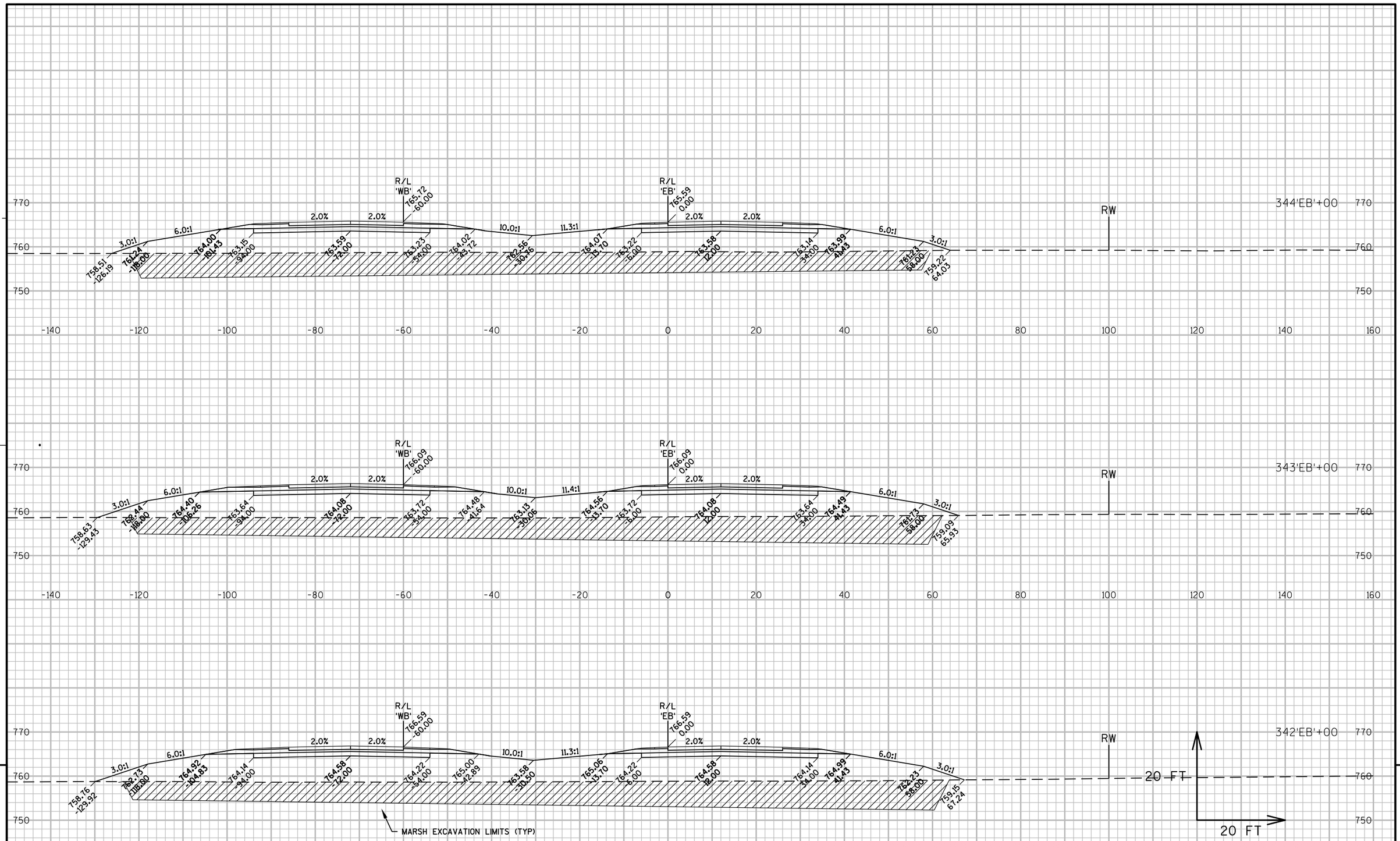


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 473	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090245_XS

PLOT DATE : 12/15/2020 9:02 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



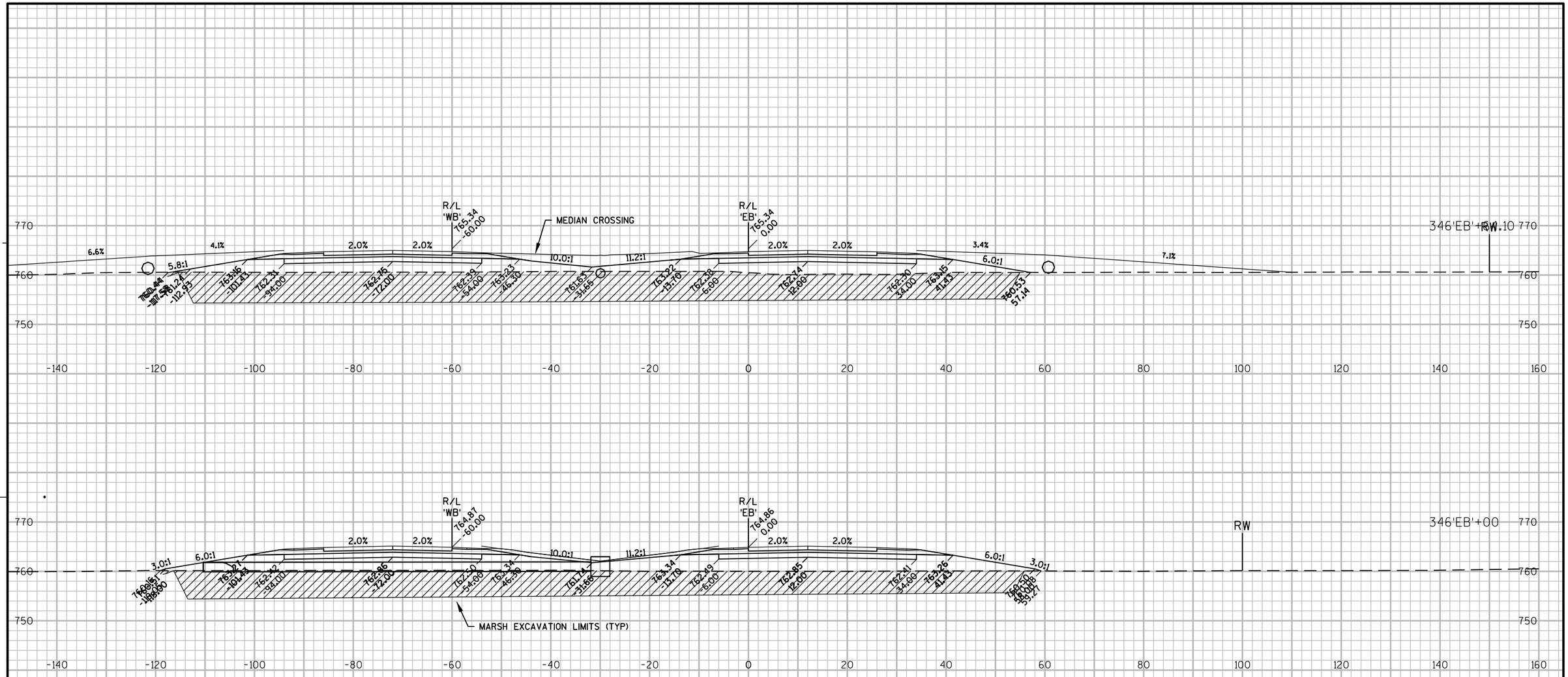
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 474	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090246_XS

PLOT DATE : 12/15/2020 9:02 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



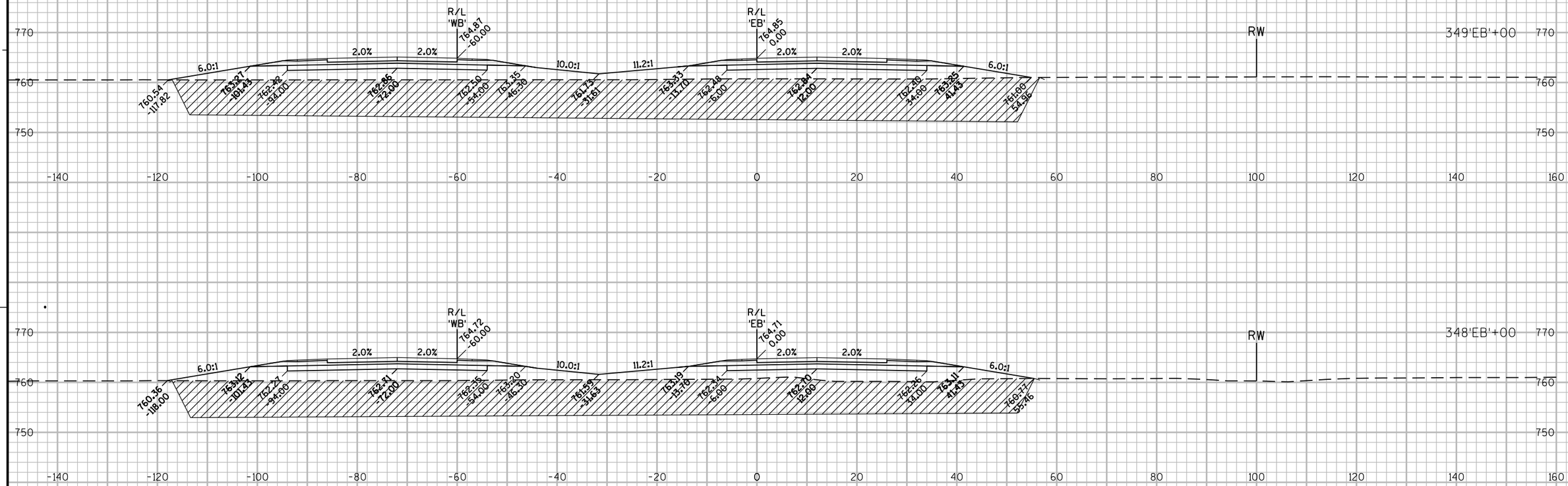
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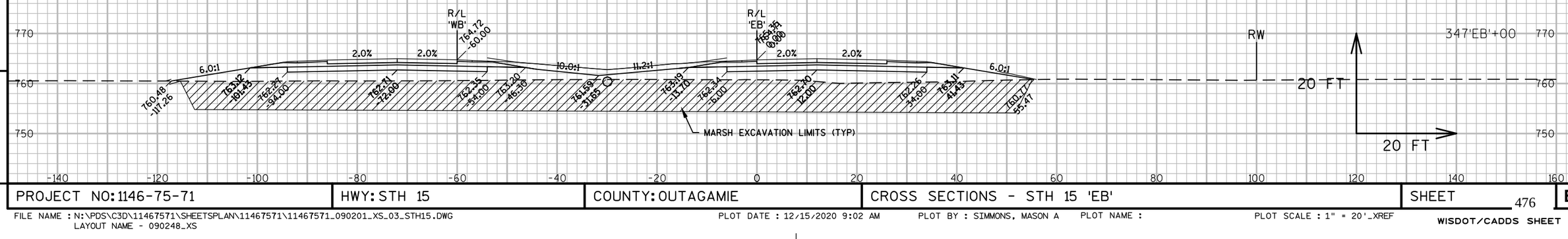
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 475	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090247_XS

PLOT DATE : 12/15/2020 9:02 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF





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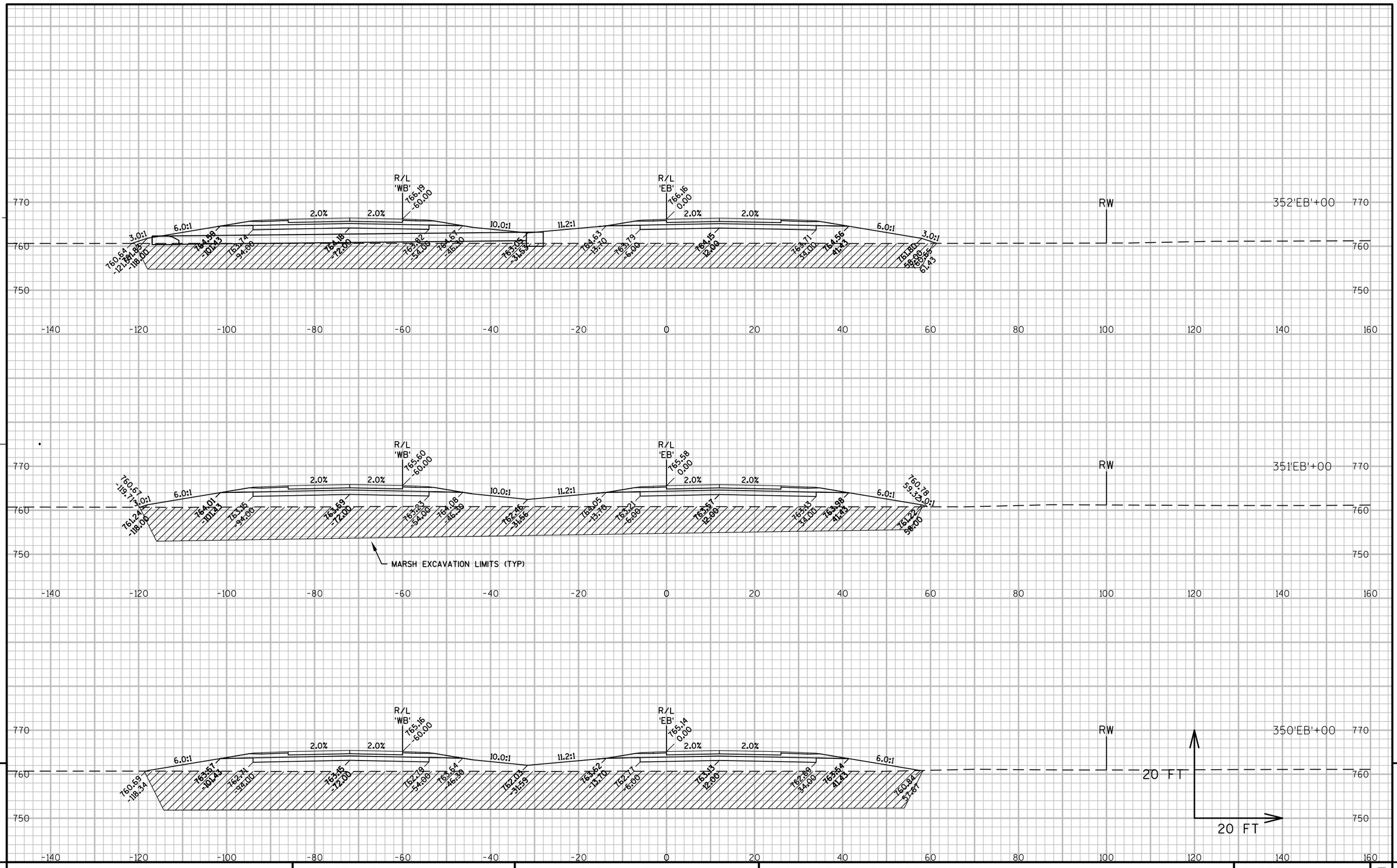
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 476	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090248_XS

PLOT DATE : 12/15/2020 9:02 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

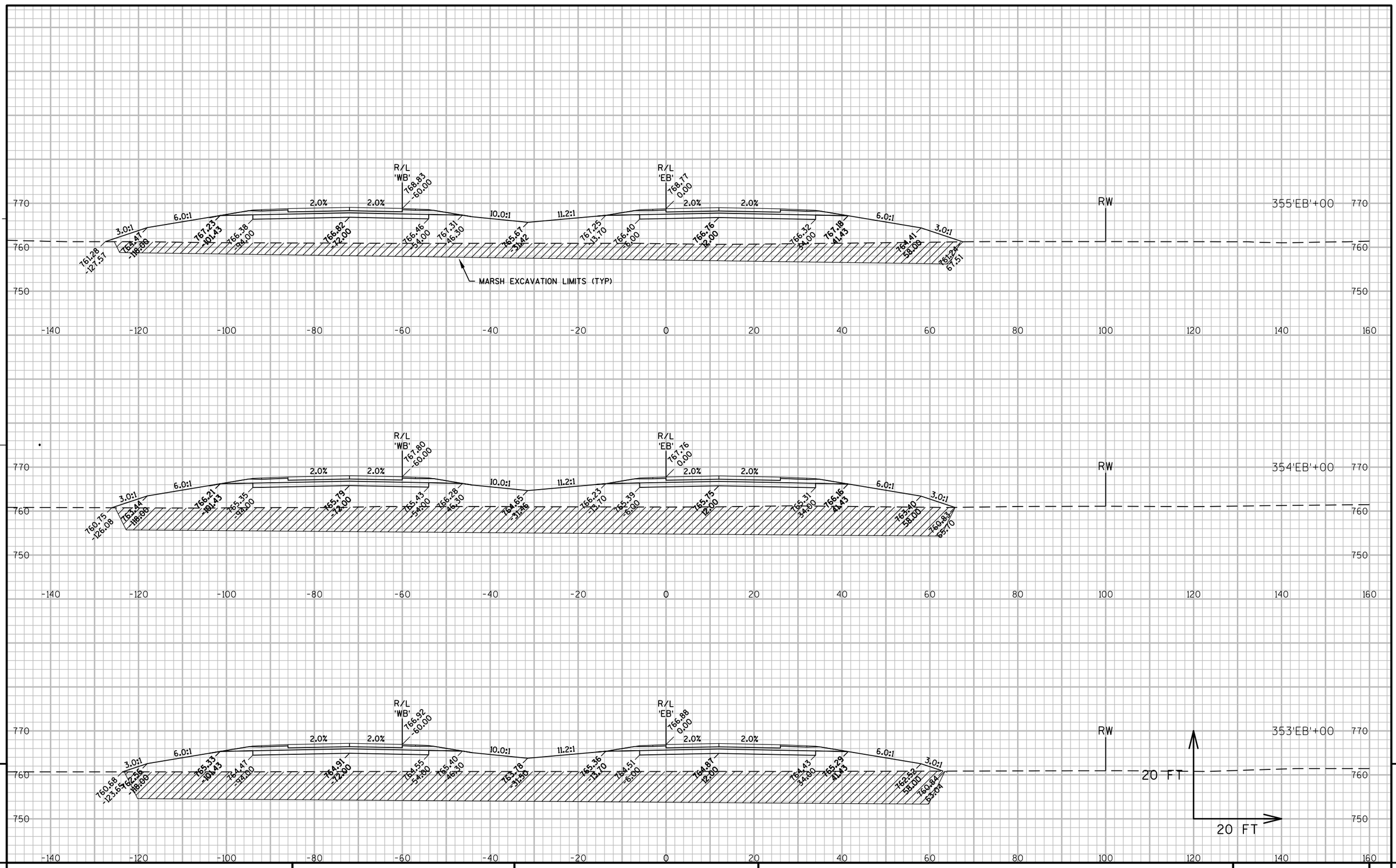
WISDOT/CADDS SHEET 49



9

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 477	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090249_XS
PLOT DATE : 12/15/2020 9:02 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 478	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090250_XS

PLOT DATE : 12/15/2020 9:02 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

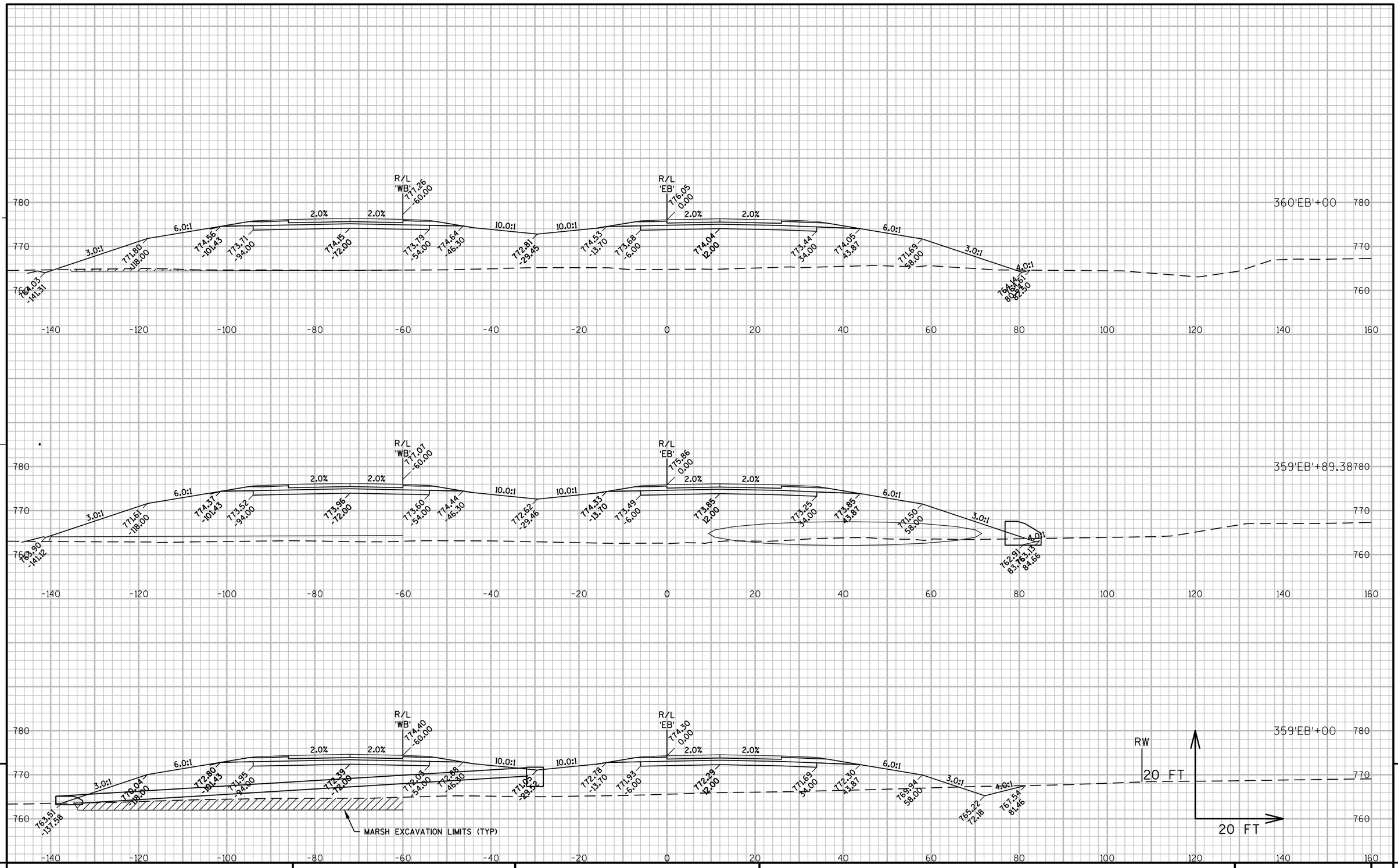
WISDOT/CADDS SHEET 49

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 479	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090251_XS

PLOT DATE : 12/15/2020 9:02 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



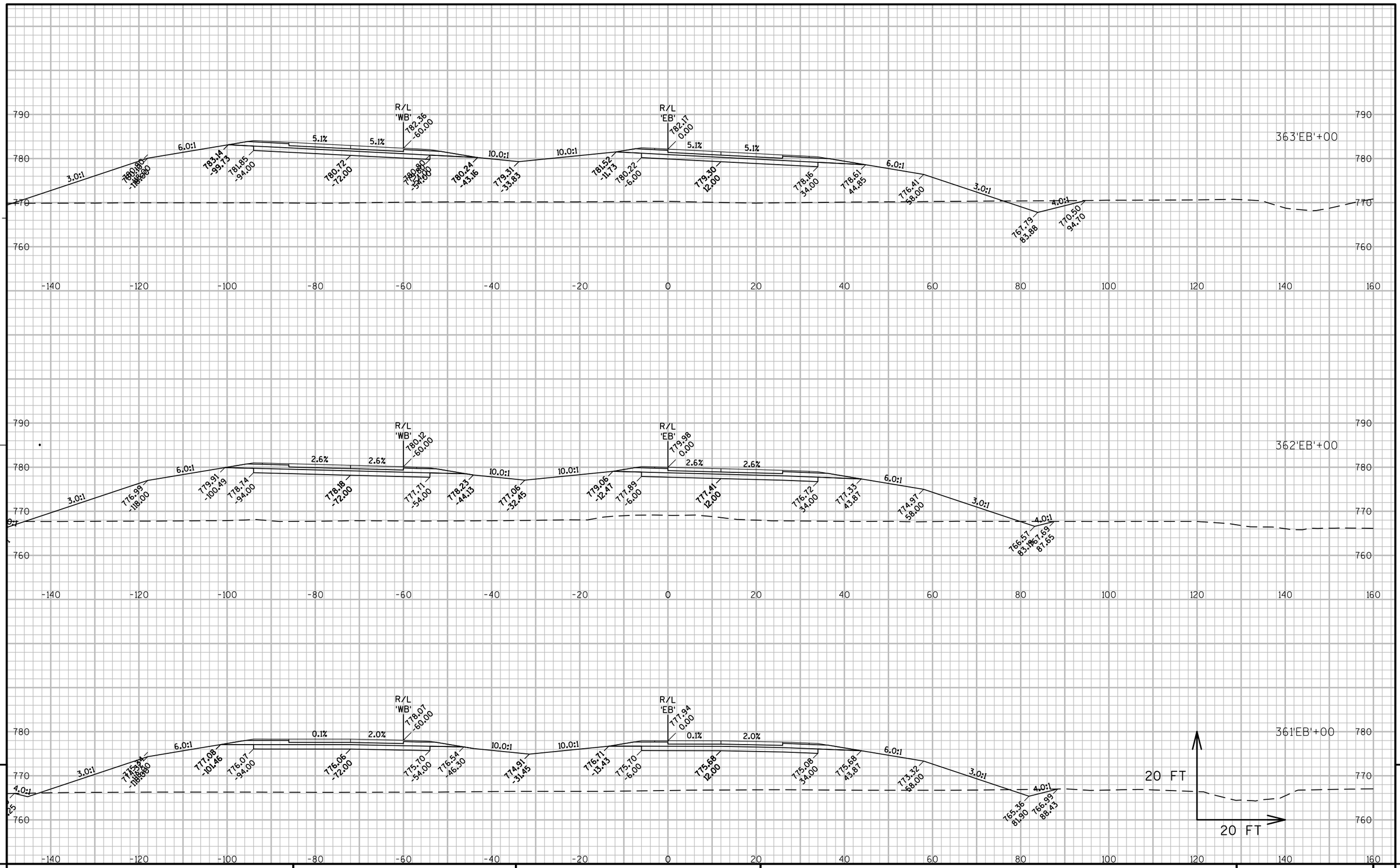
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 480	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090252_XS

PLOT DATE : 12/15/2020 9:03 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 481	E

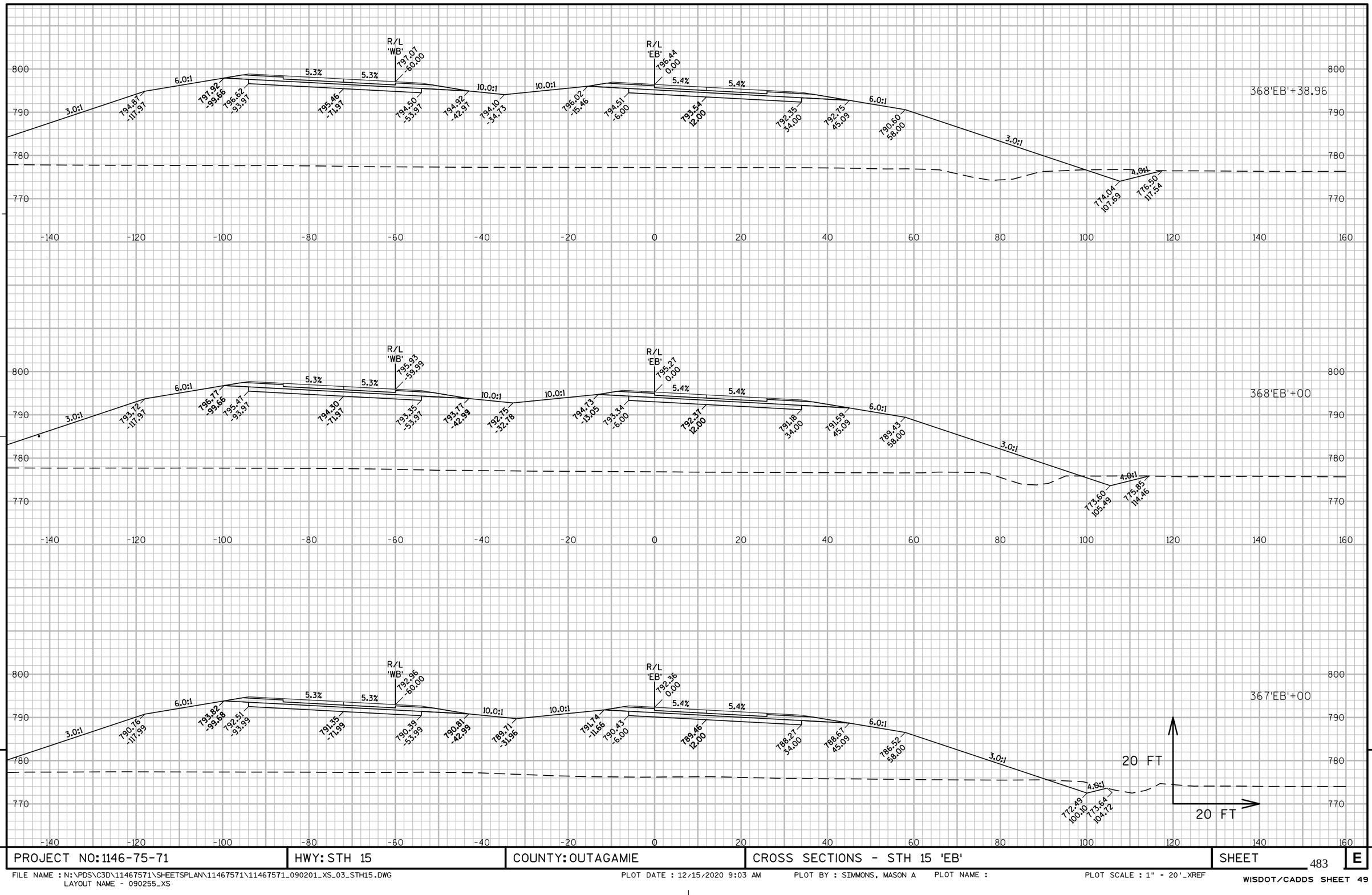
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090253_XS
PLOT DATE : 12/15/2020 9:03 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49

9

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 482	E

9

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090254_XS
PLOT DATE : 12/15/2020 9:03 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



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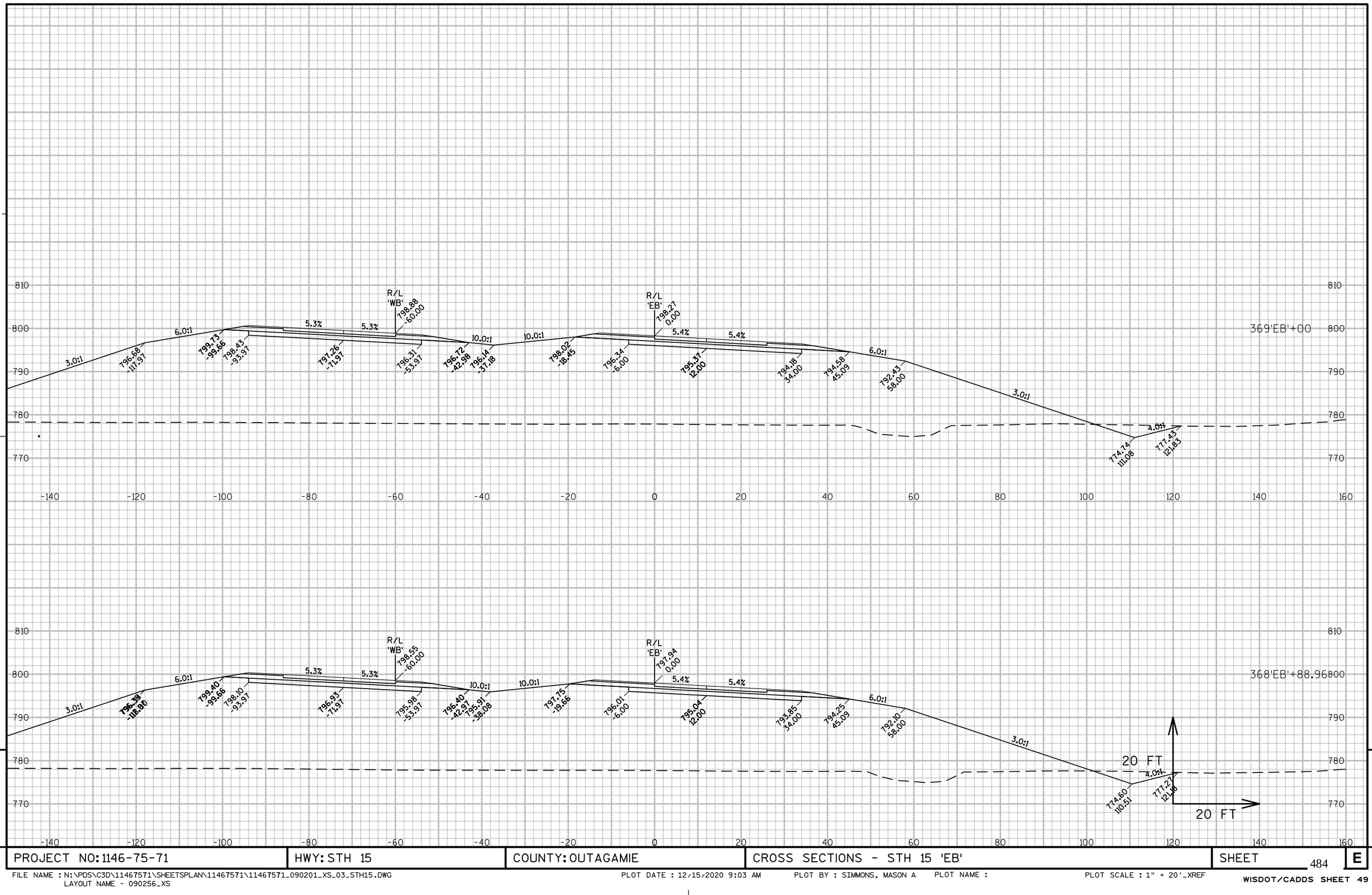
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 483	E

9

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090255_XS

PLOT DATE : 12/15/2020 9:03 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



9

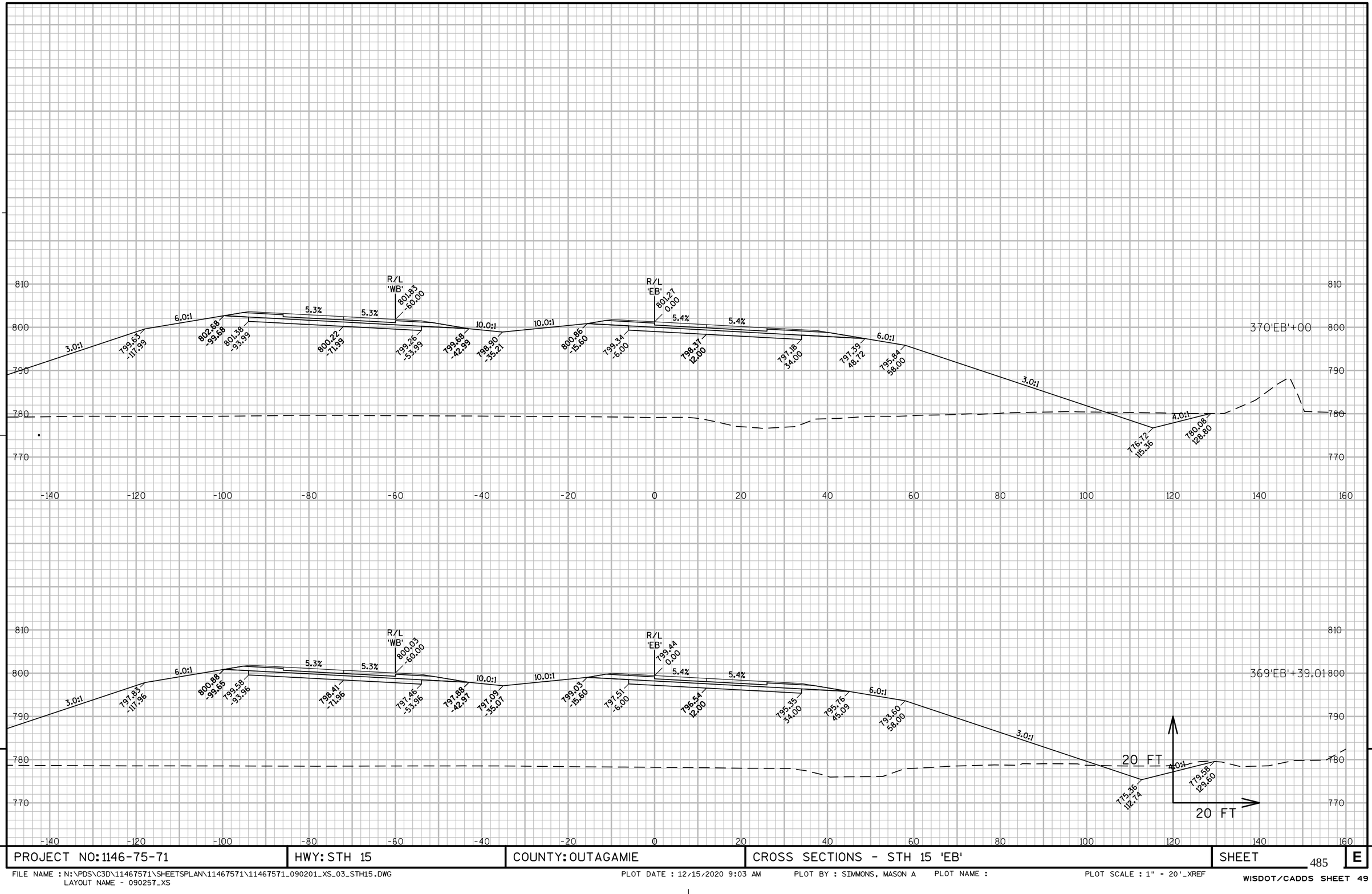
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 484	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090256_XS

PLOT DATE : 12/15/2020 9:03 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



9

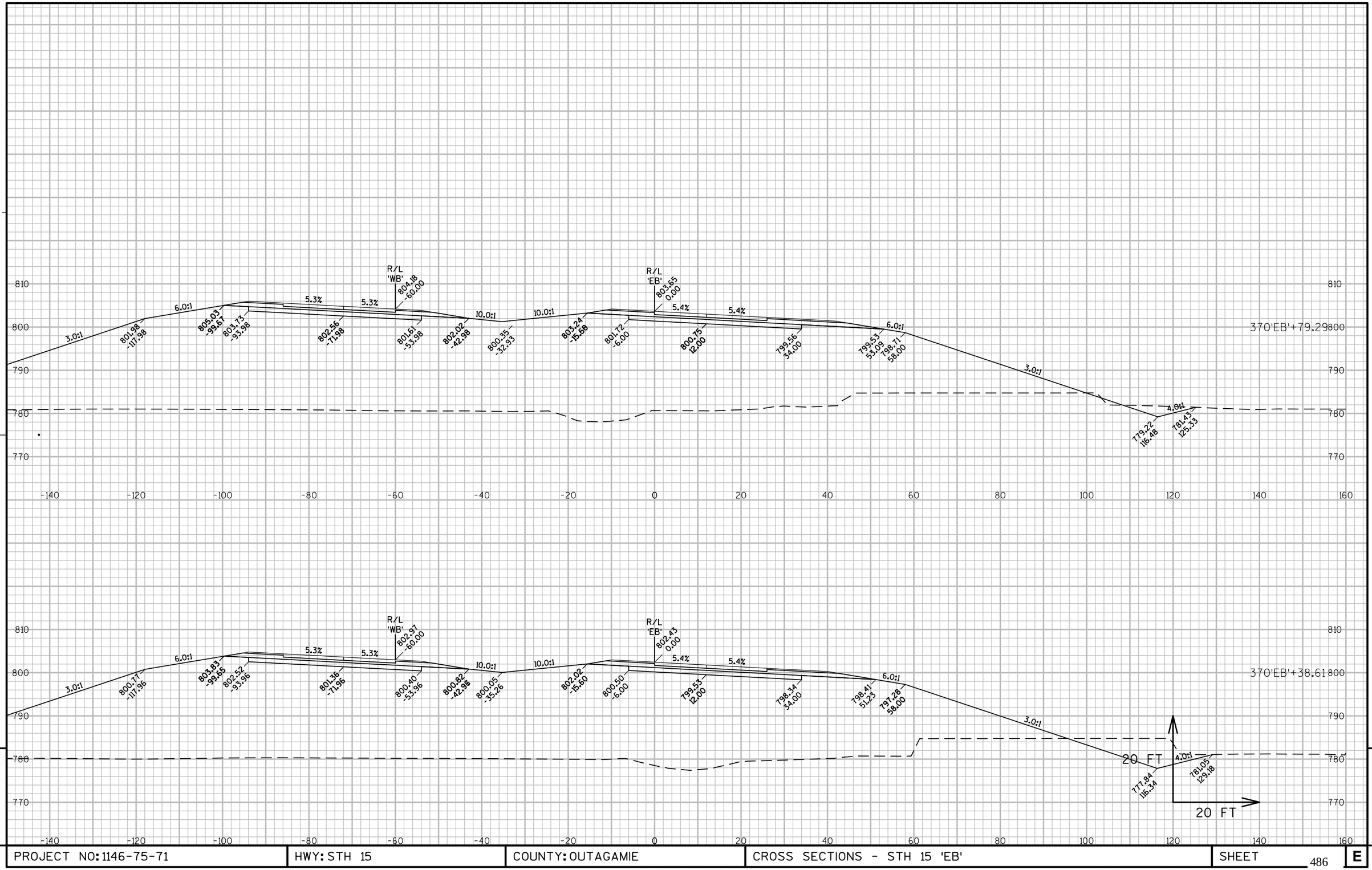
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 485	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090257_XS

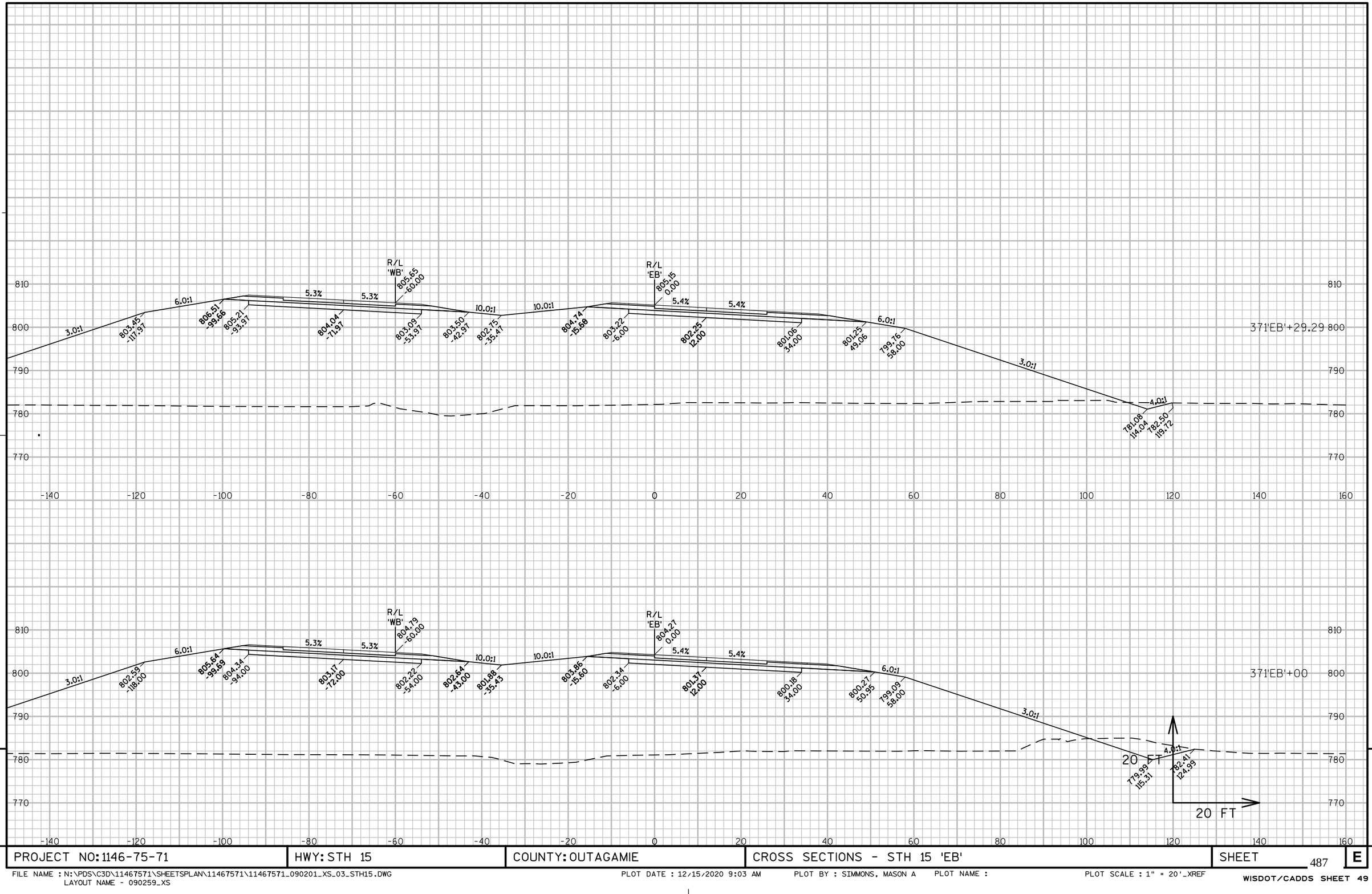
PLOT DATE : 12/15/2020 9:03 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 486	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090258_XS
PLOT DATE : 12/15/2020 9:03 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49

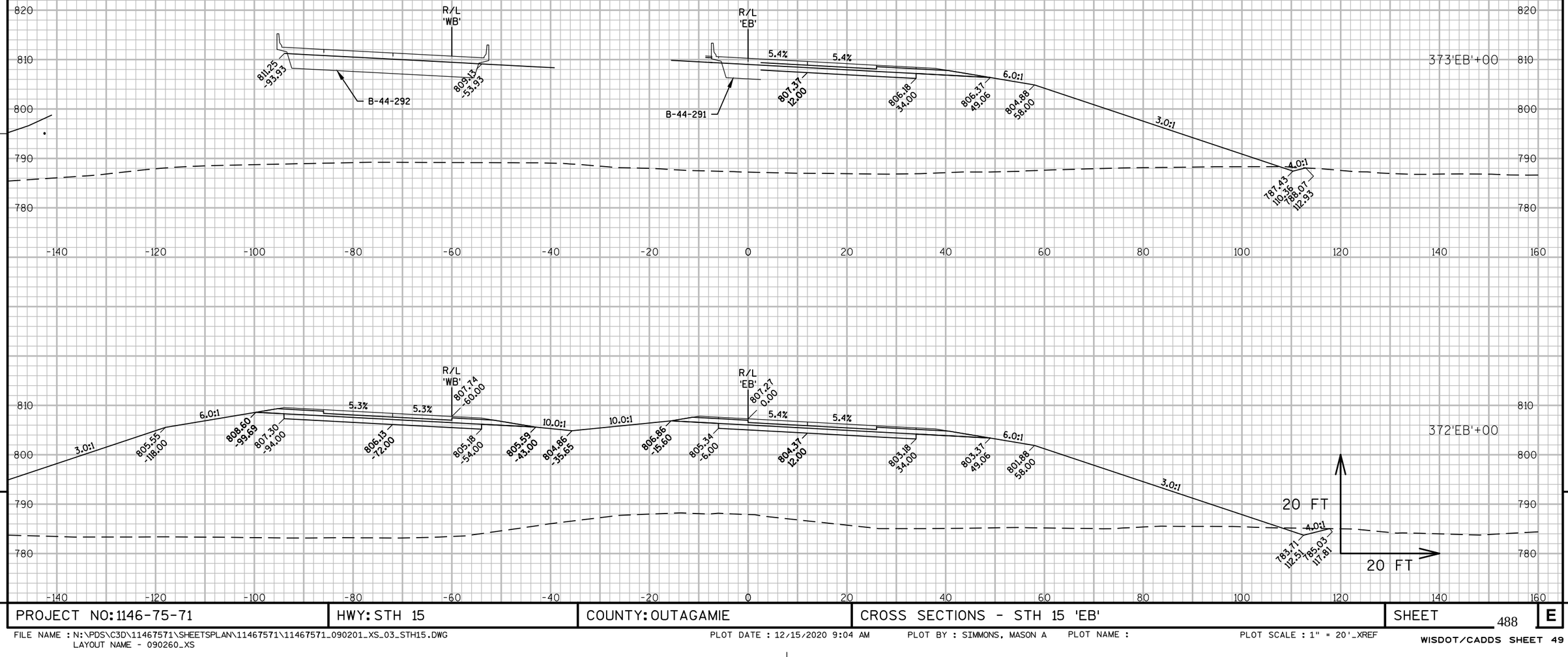


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 487	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090259_XS

PLOT DATE : 12/15/2020 9:03 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

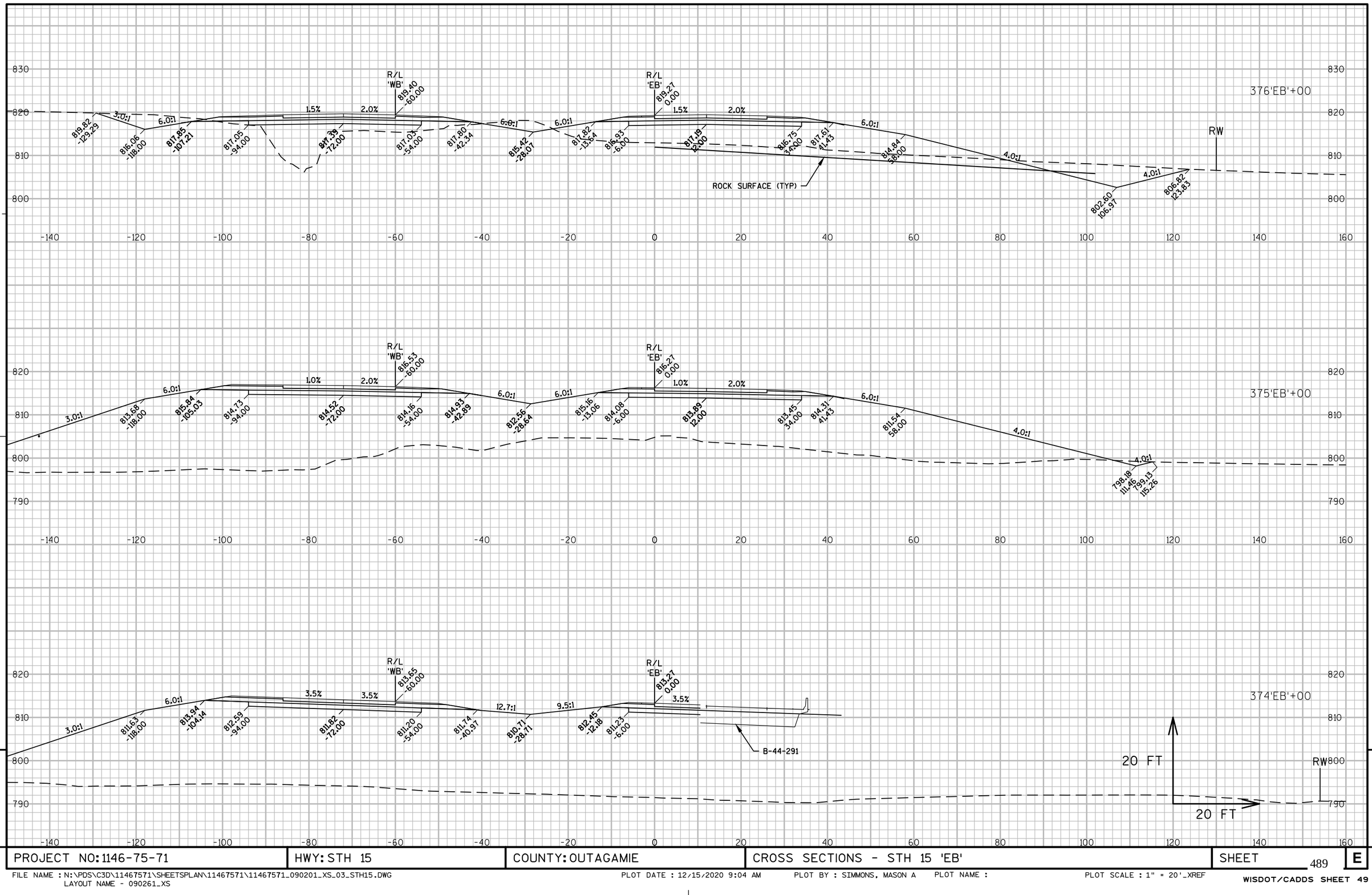


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 488	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090260_XS

PLOT DATE : 12/15/2020 9:04 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

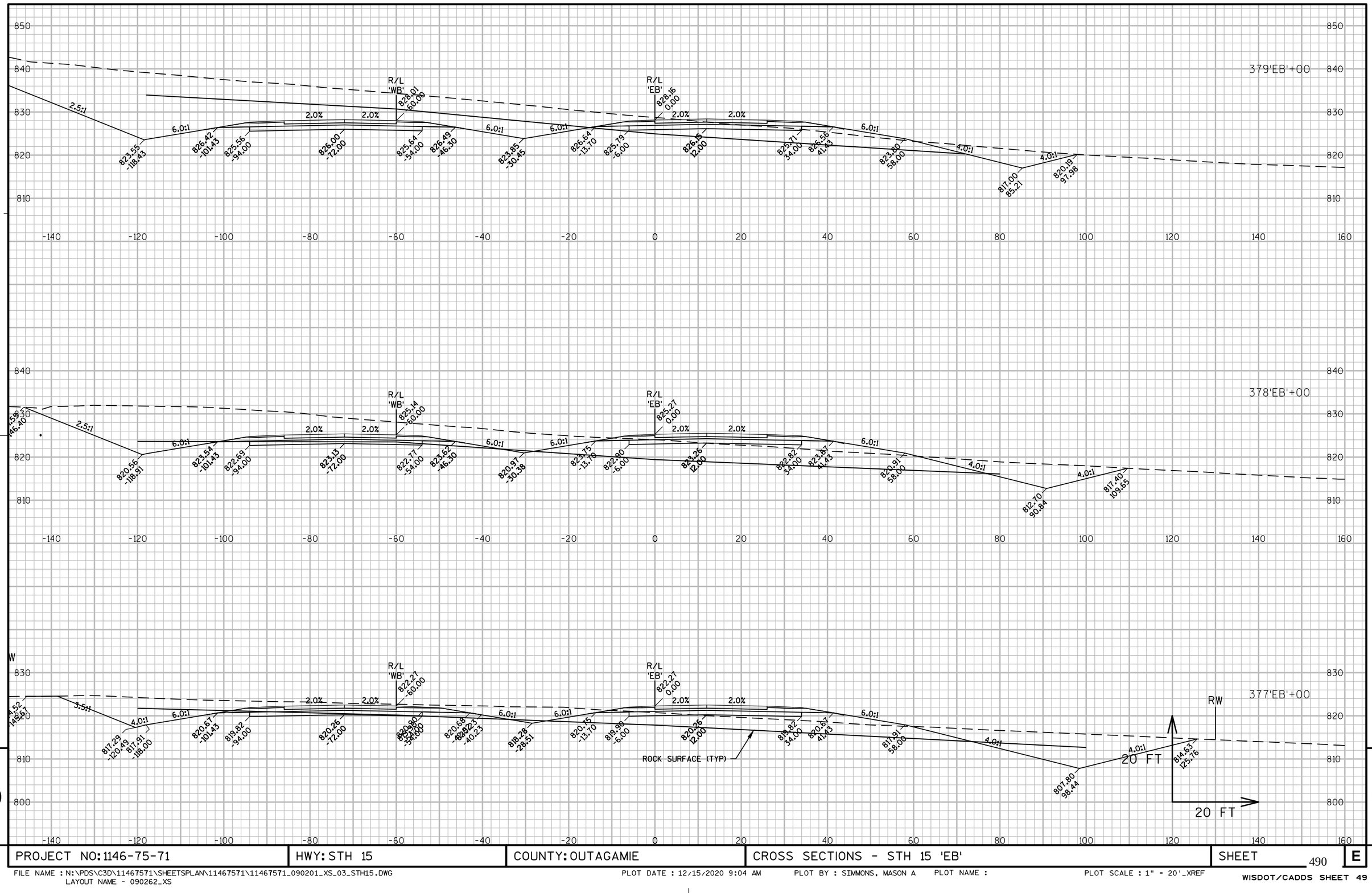


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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 489	E

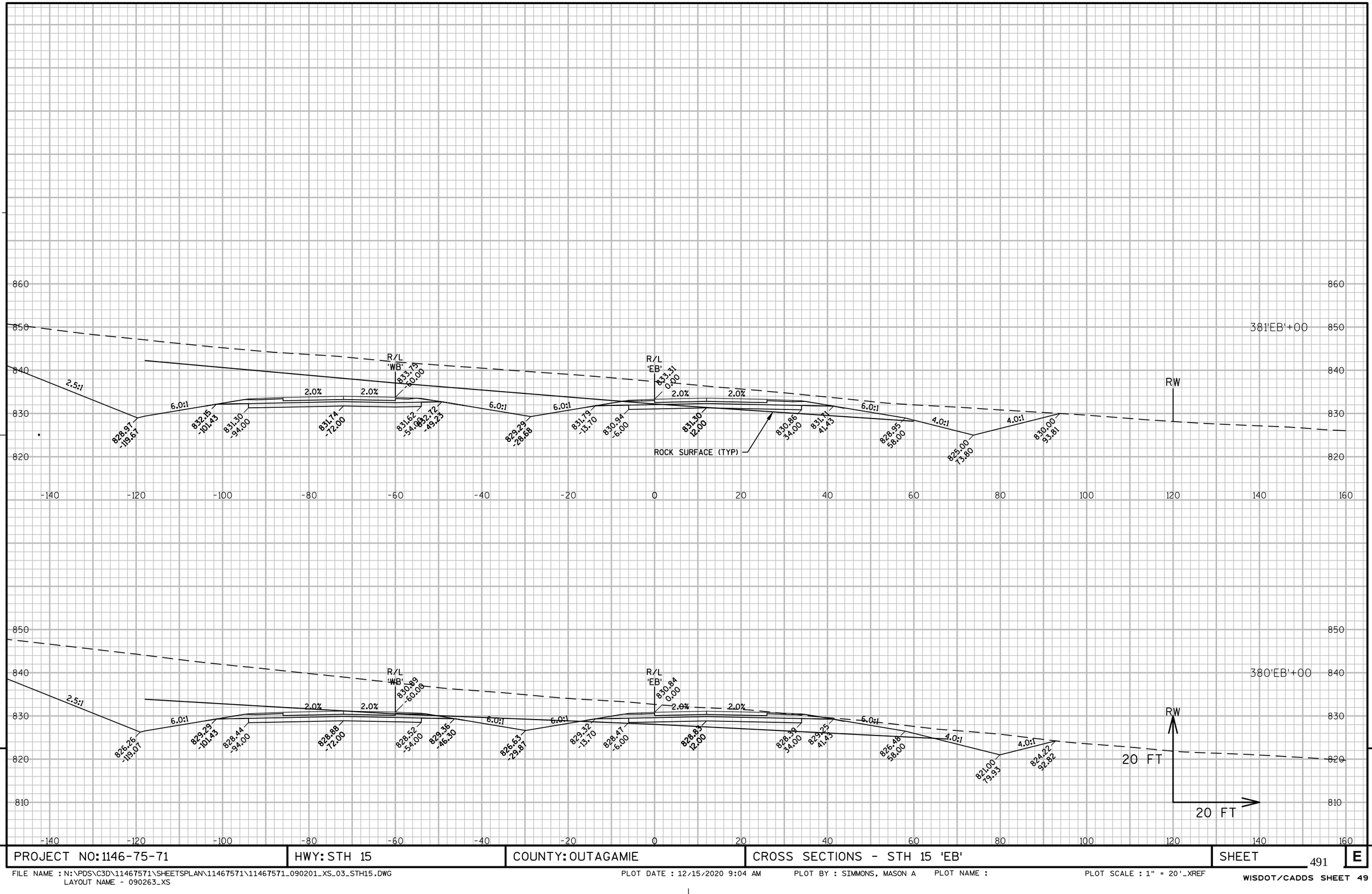
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090261_XS
PLOT DATE : 12/15/2020 9:04 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 490	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090262_XS

PLOT DATE : 12/15/2020 9:04 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

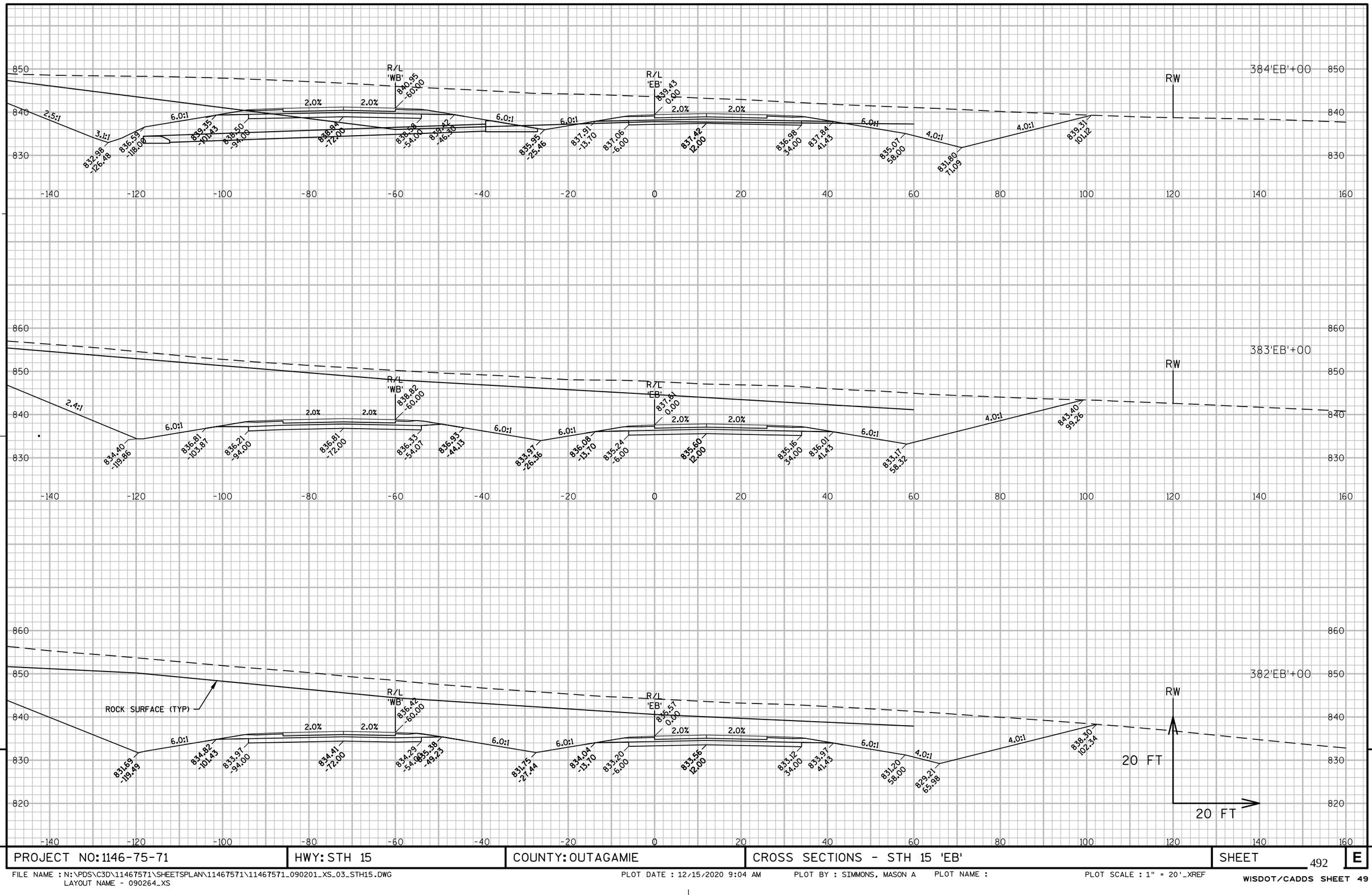


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 491	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090263_XS

PLOT DATE : 12/15/2020 9:04 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

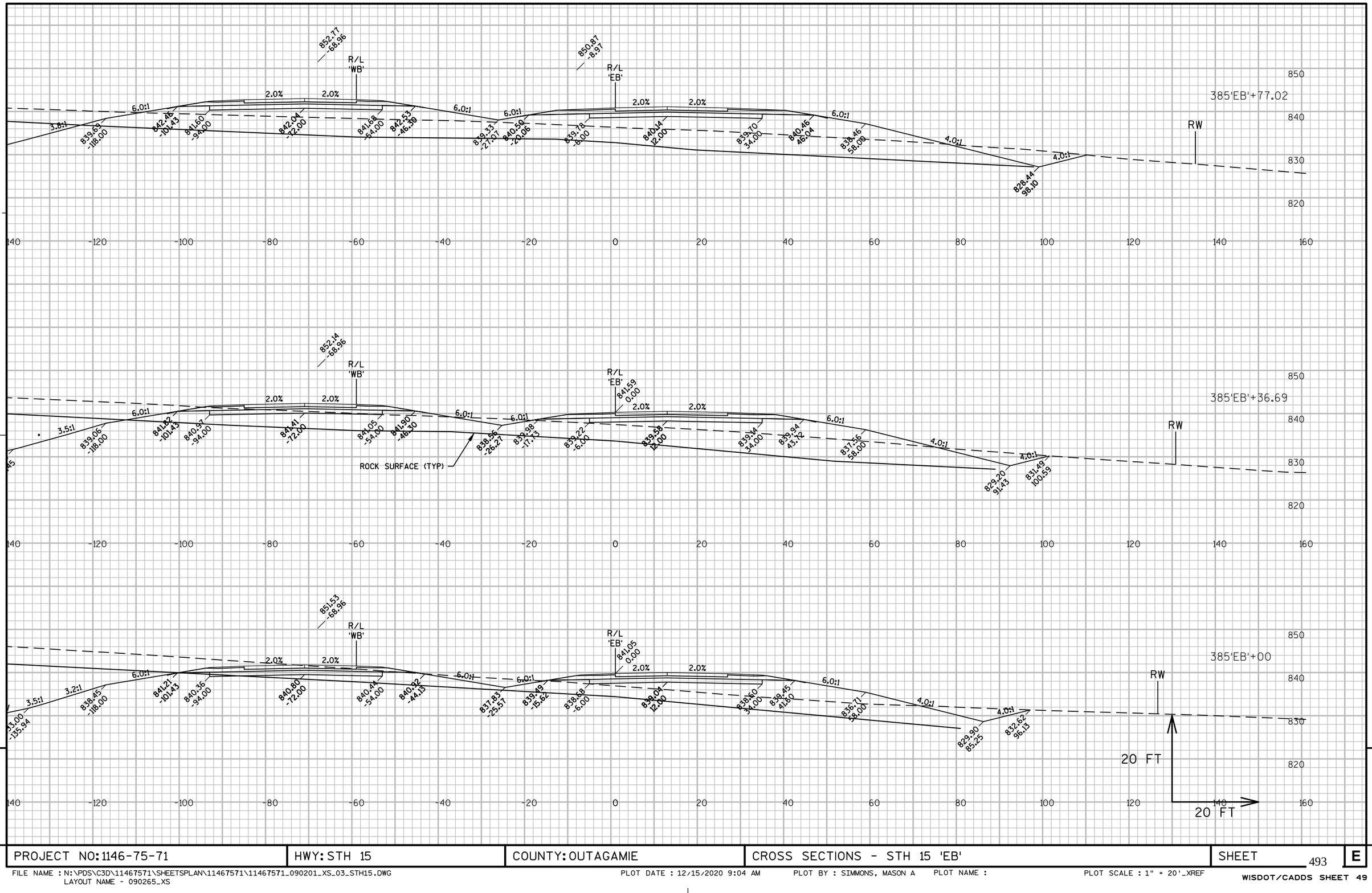
WISDOT/CADDS SHEET 49



9

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 492	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090264_XS
PLOT DATE : 12/15/2020 9:04 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 493	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090265_XS

PLOT DATE : 12/15/2020 9:04 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

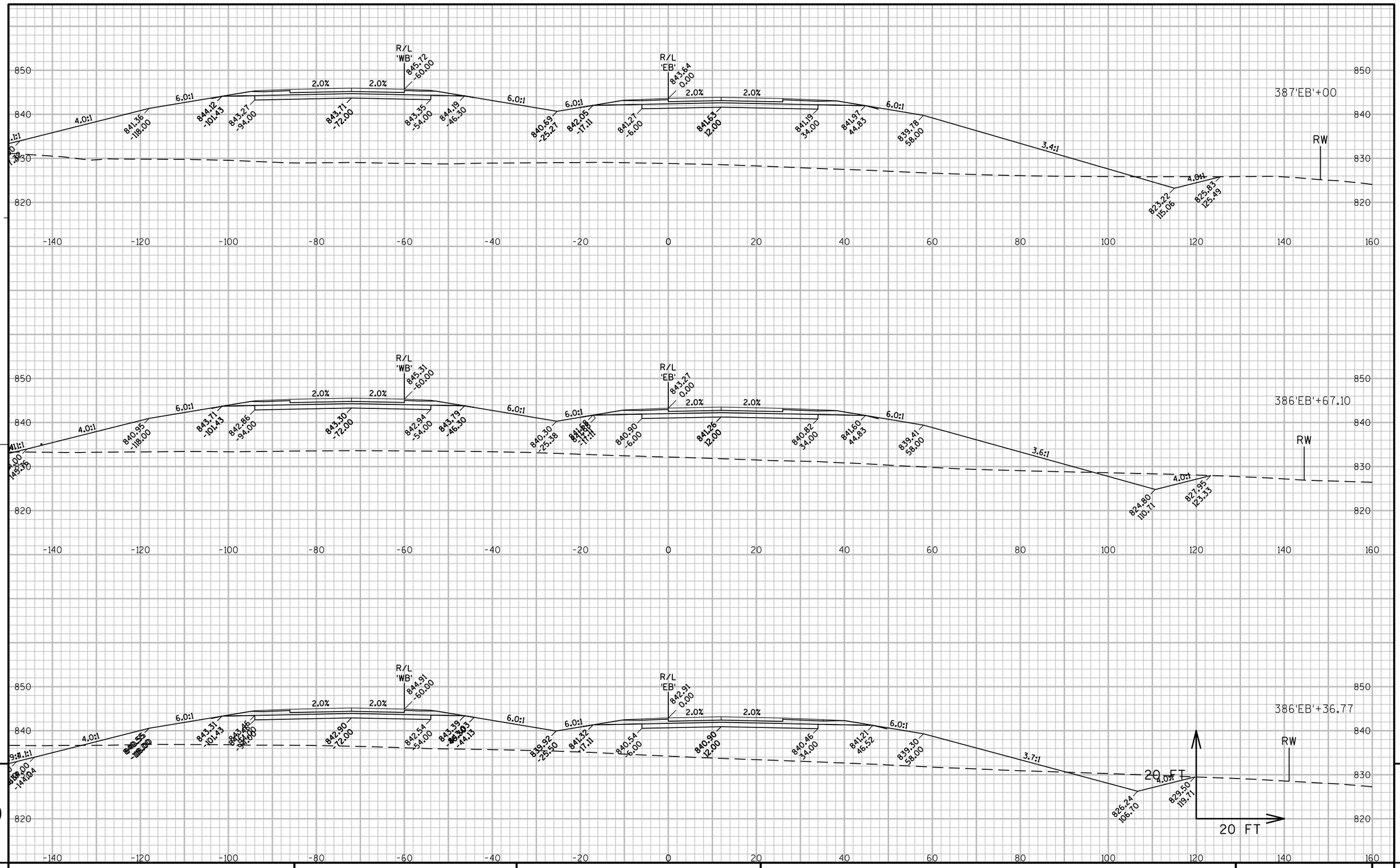
WISDOT/CADDS SHEET 49

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 494	E

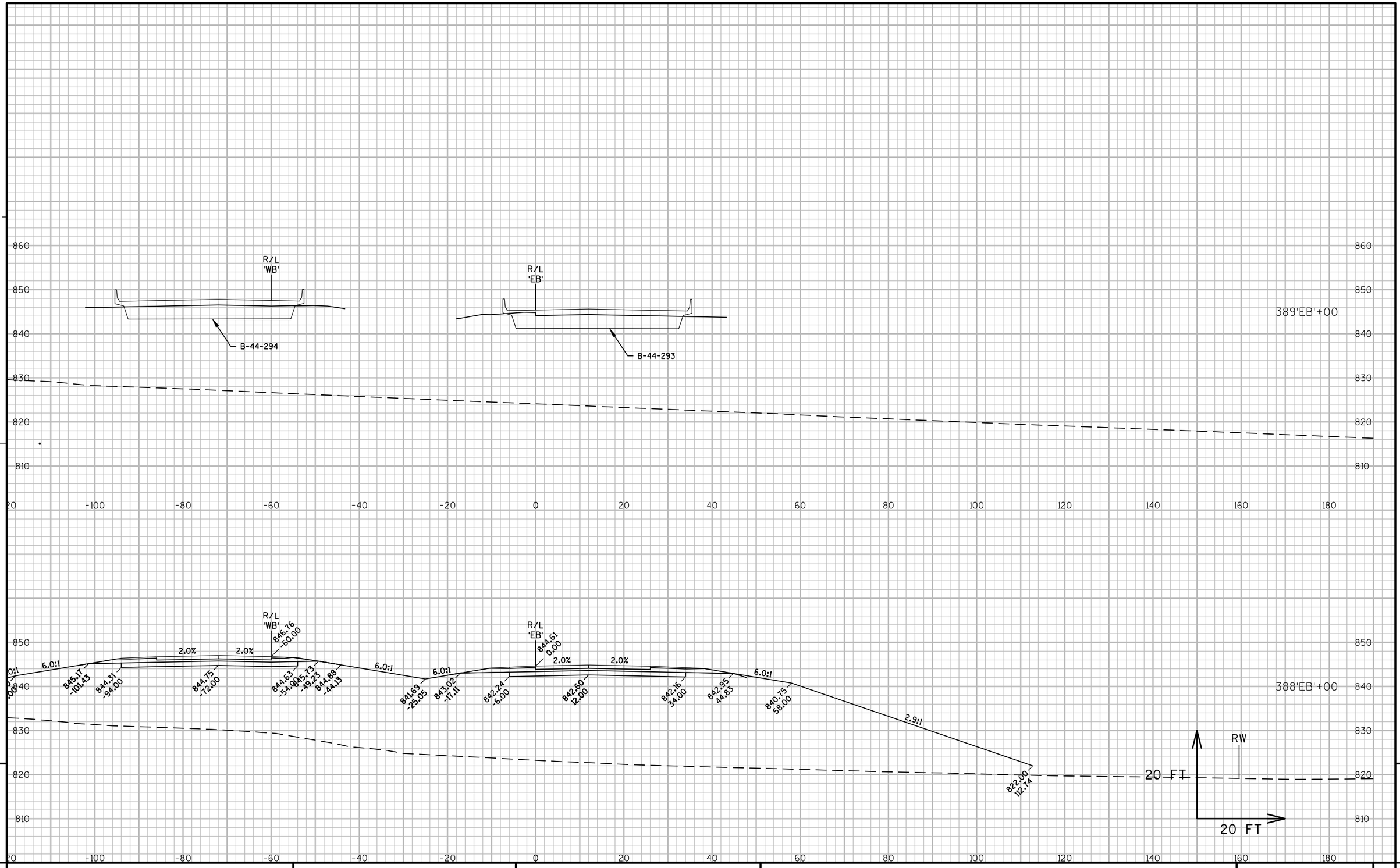
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090266_XS

PLOT DATE : 12/15/2020 9:04 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 495	E

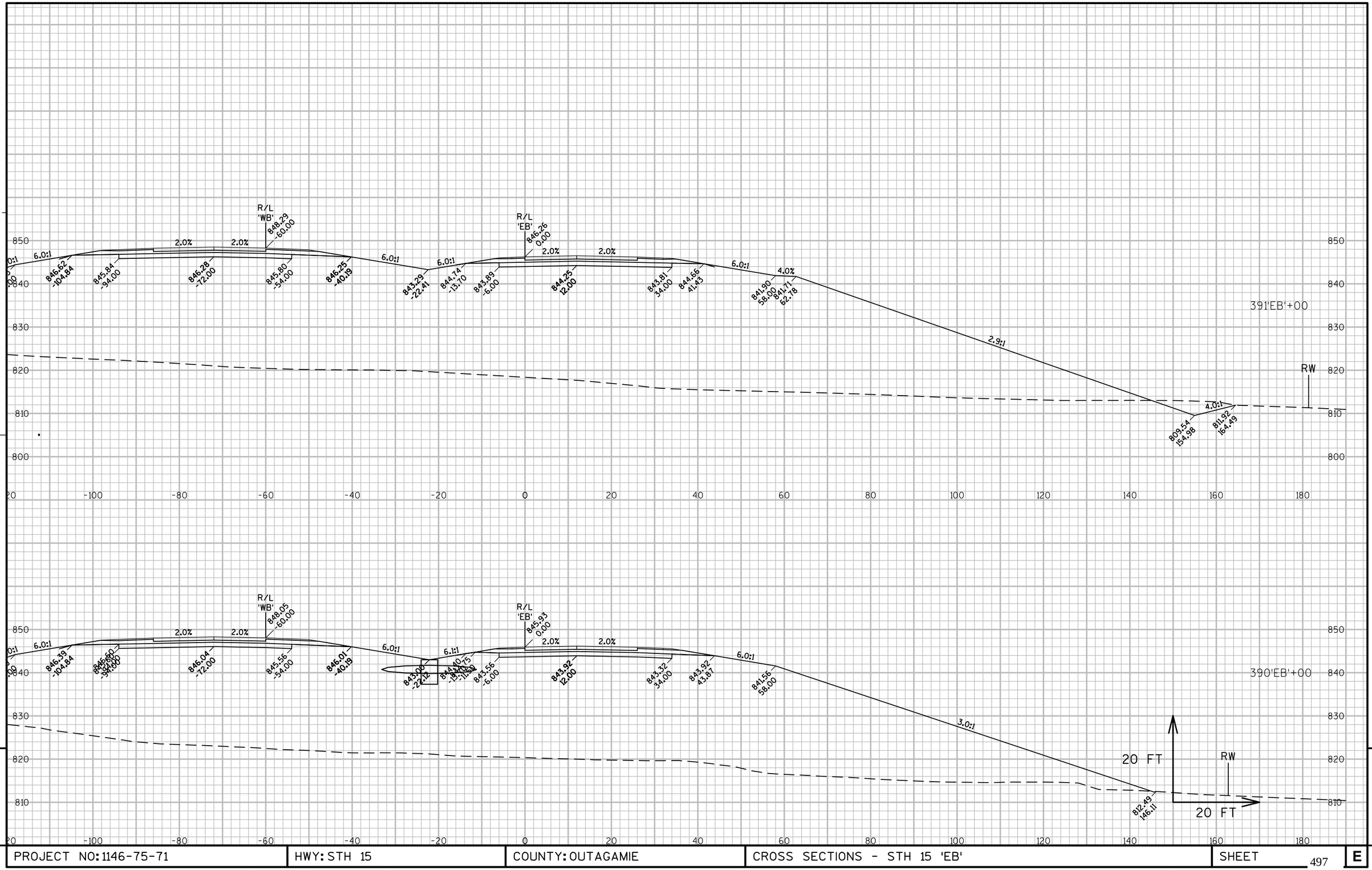


9

9

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 496	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090268_XS
PLOT DATE : 12/15/2020 9:05 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



9

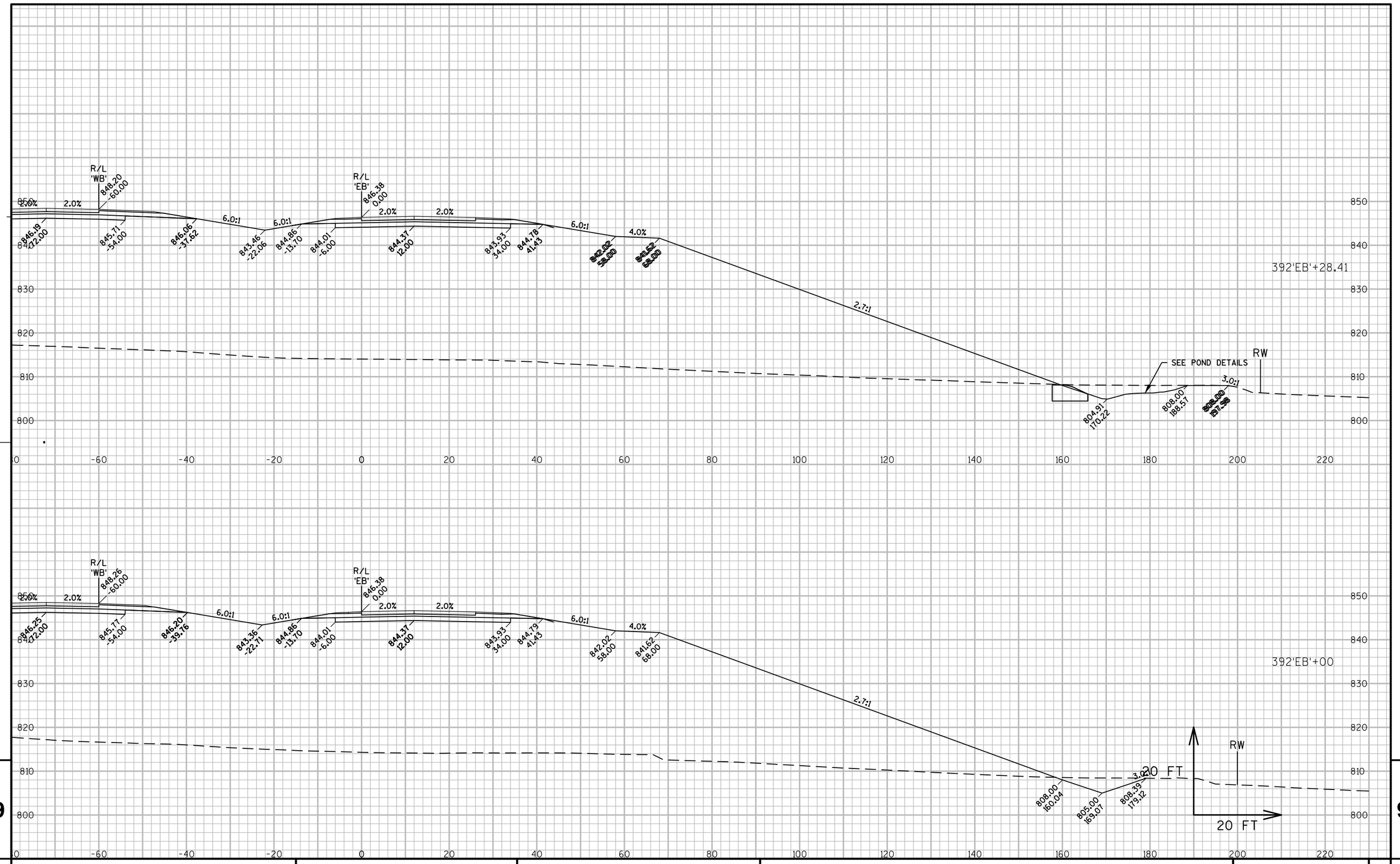
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 497	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090269_XS

PLOT DATE : 12/15/2020 9:05 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

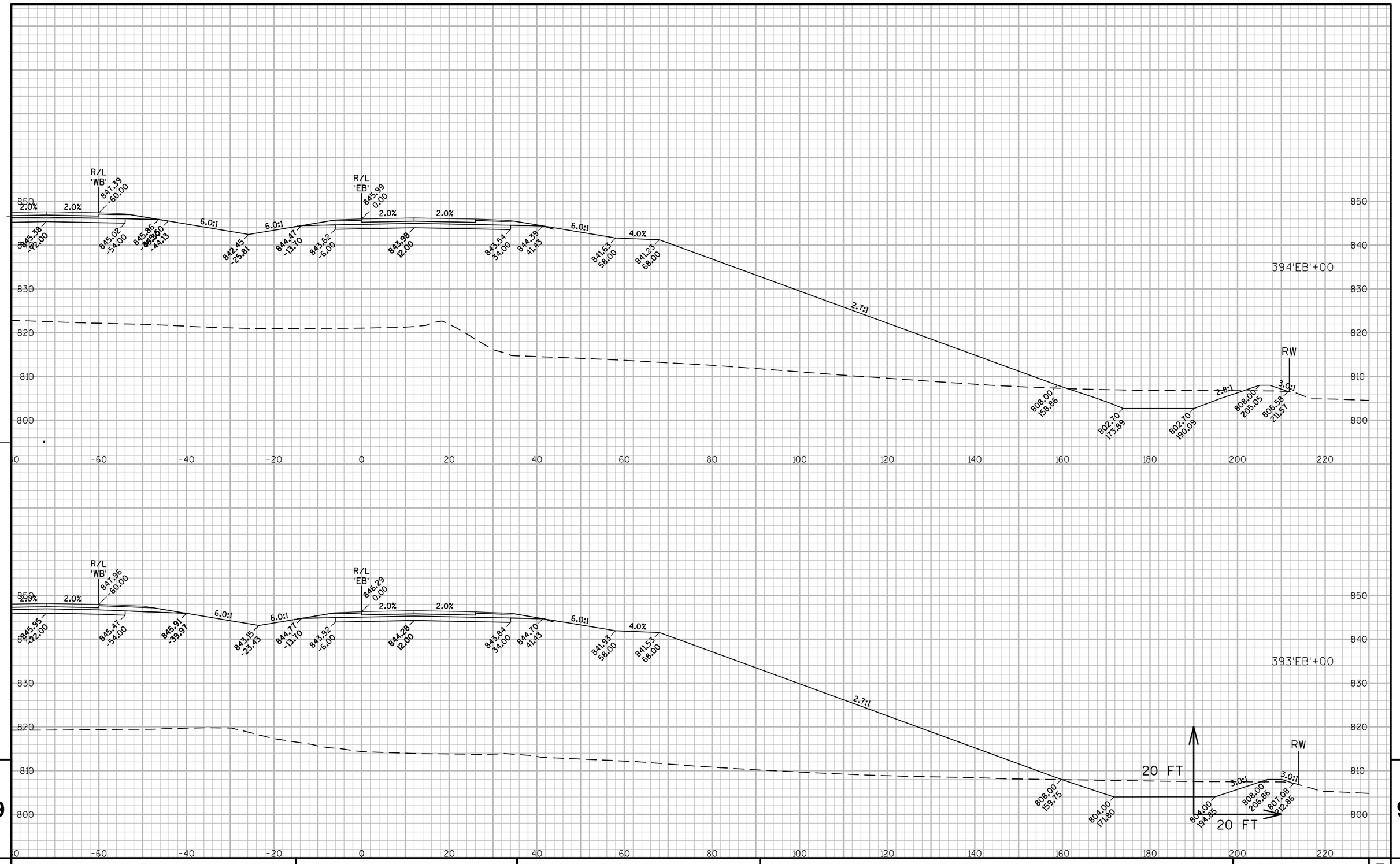


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 498	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090270_XS

PLOT DATE : 12/15/2020 9:05 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

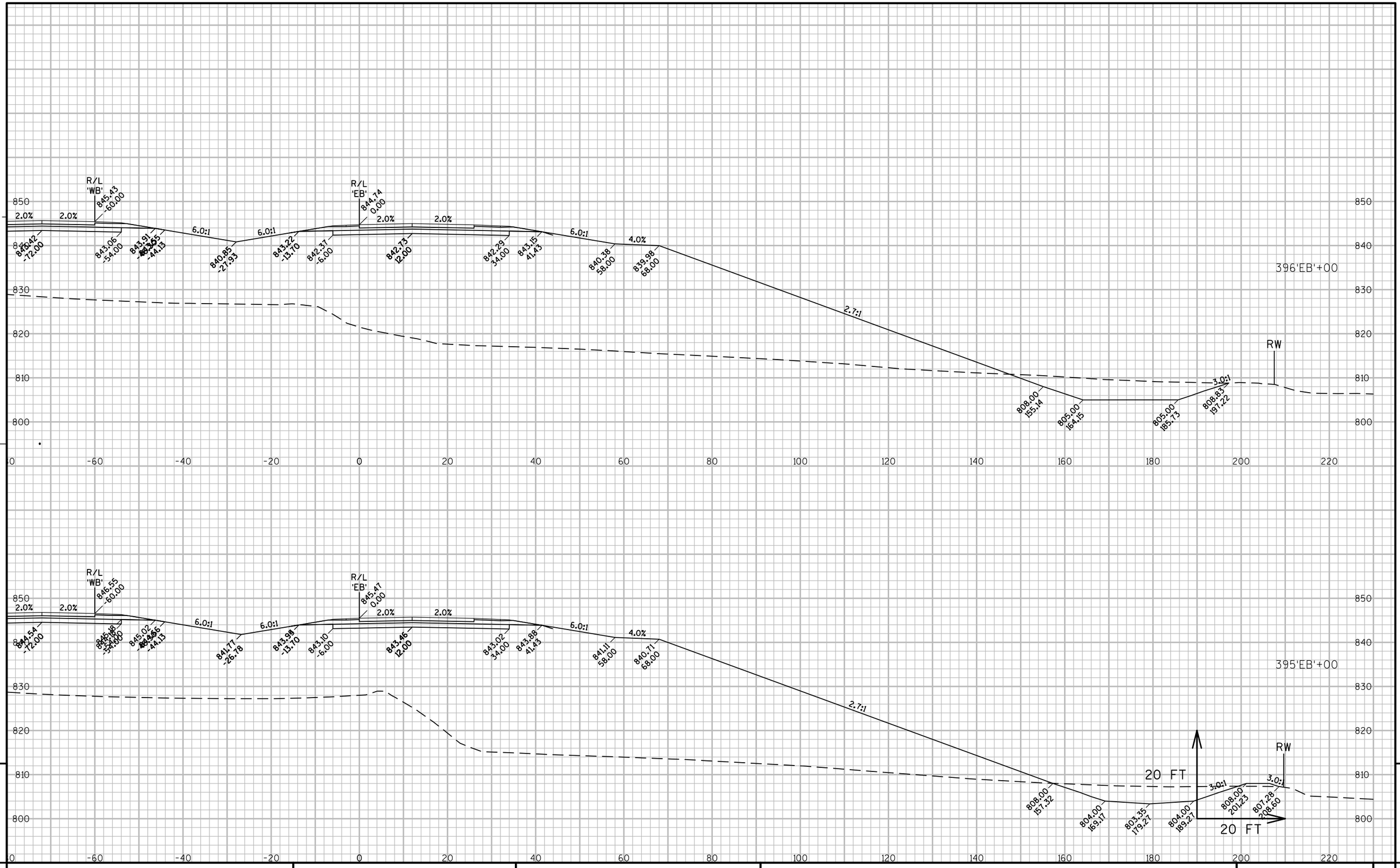


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 499	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090271_XS

PLOT DATE : 12/15/2020 9:05 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

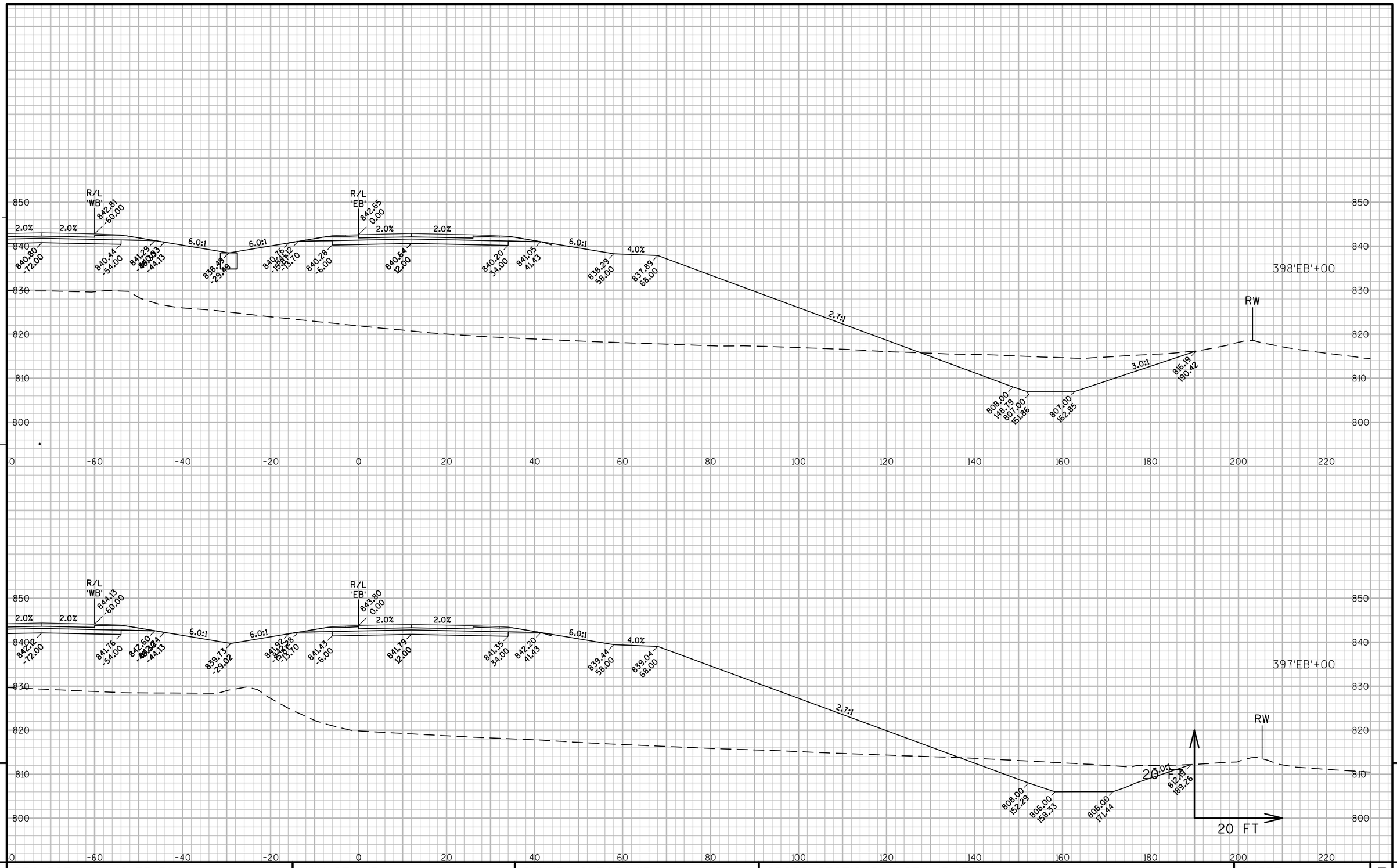


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 500	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090272_XS

PLOT DATE : 12/15/2020 9:05 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

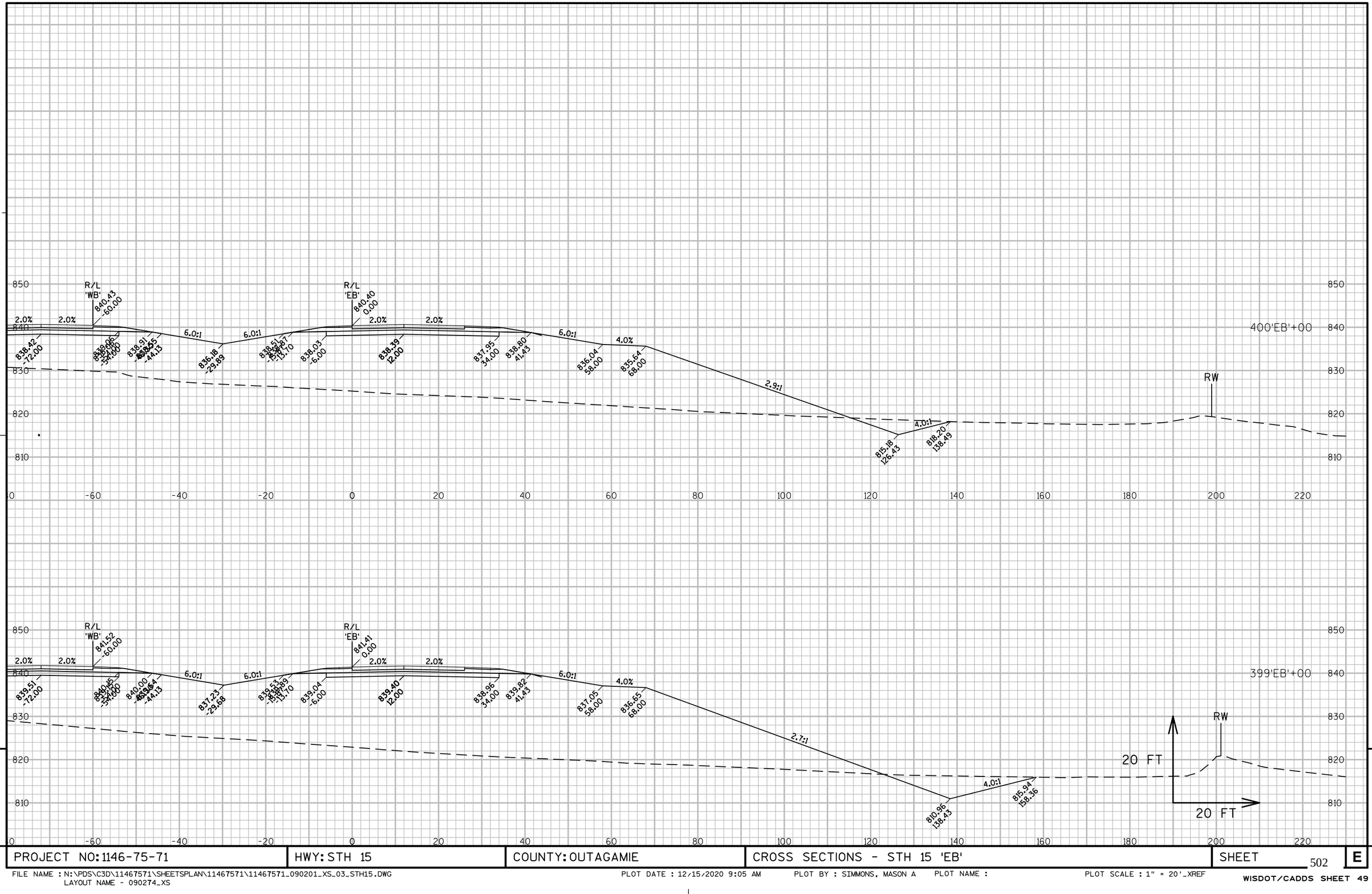


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 501	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090273_XS

PLOT DATE : 12/15/2020 9:05 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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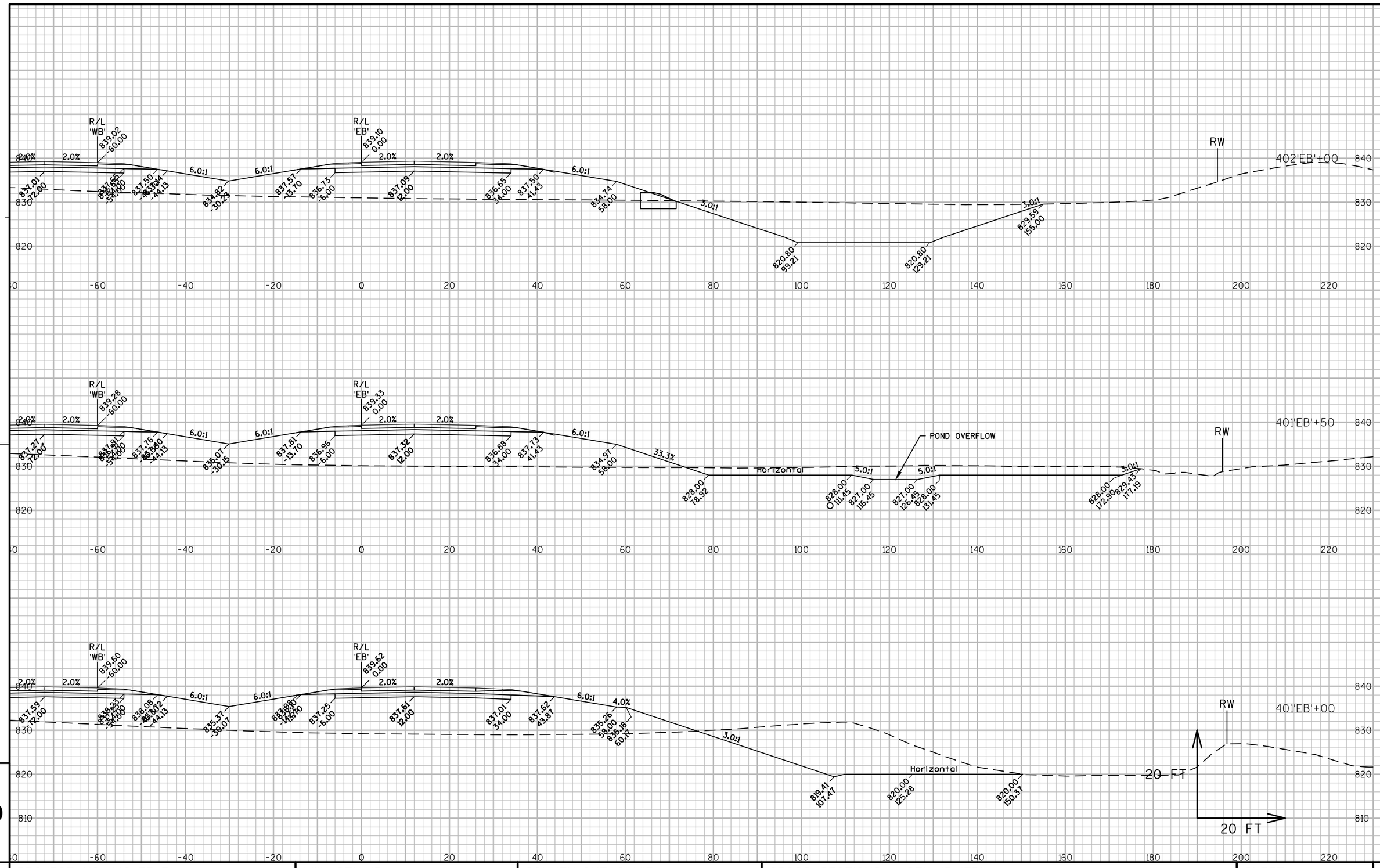
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 502	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090274_XS

PLOT DATE : 12/15/2020 9:05 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

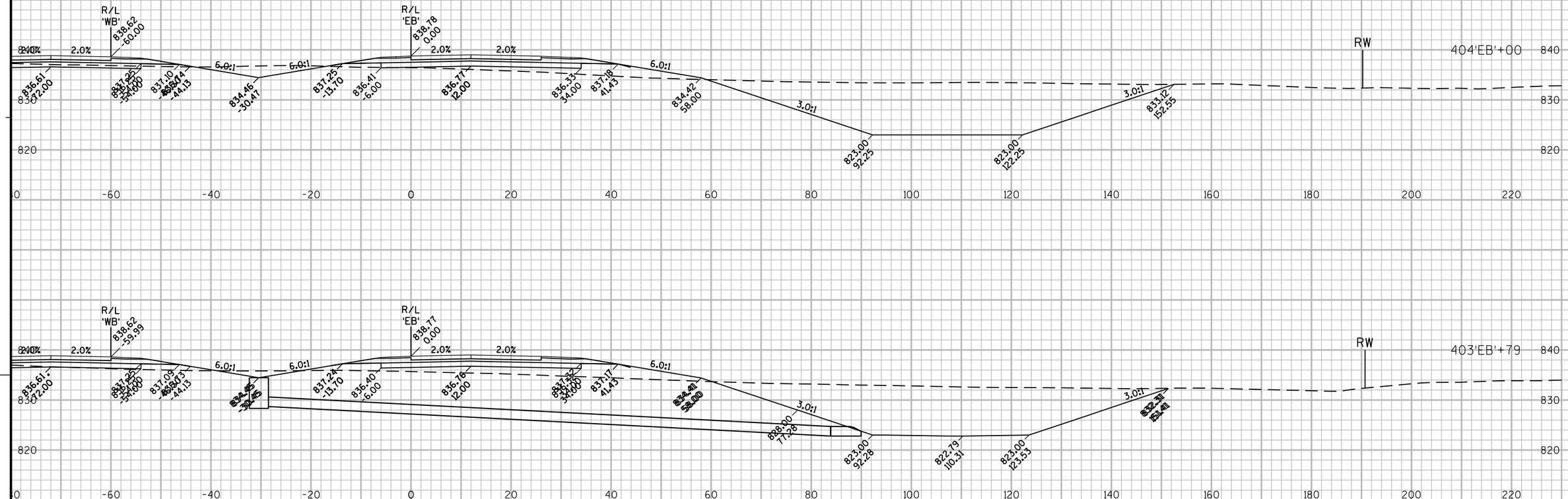


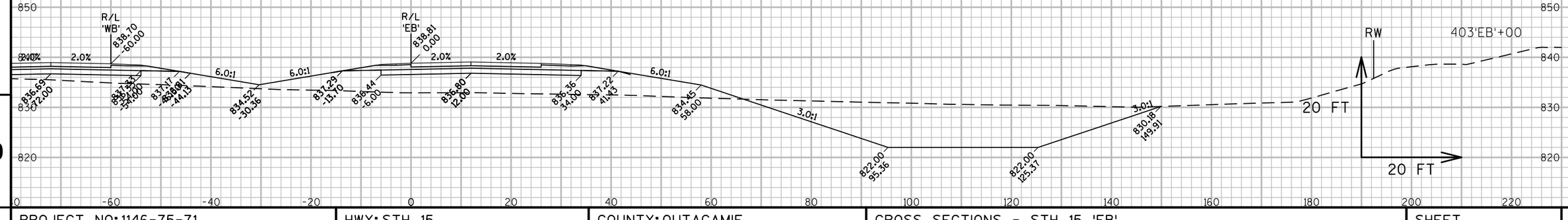
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 503	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090275_XS

PLOT DATE : 12/15/2020 9:05 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49





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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 504	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090276_XS

PLOT DATE : 12/15/2020 9:06 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

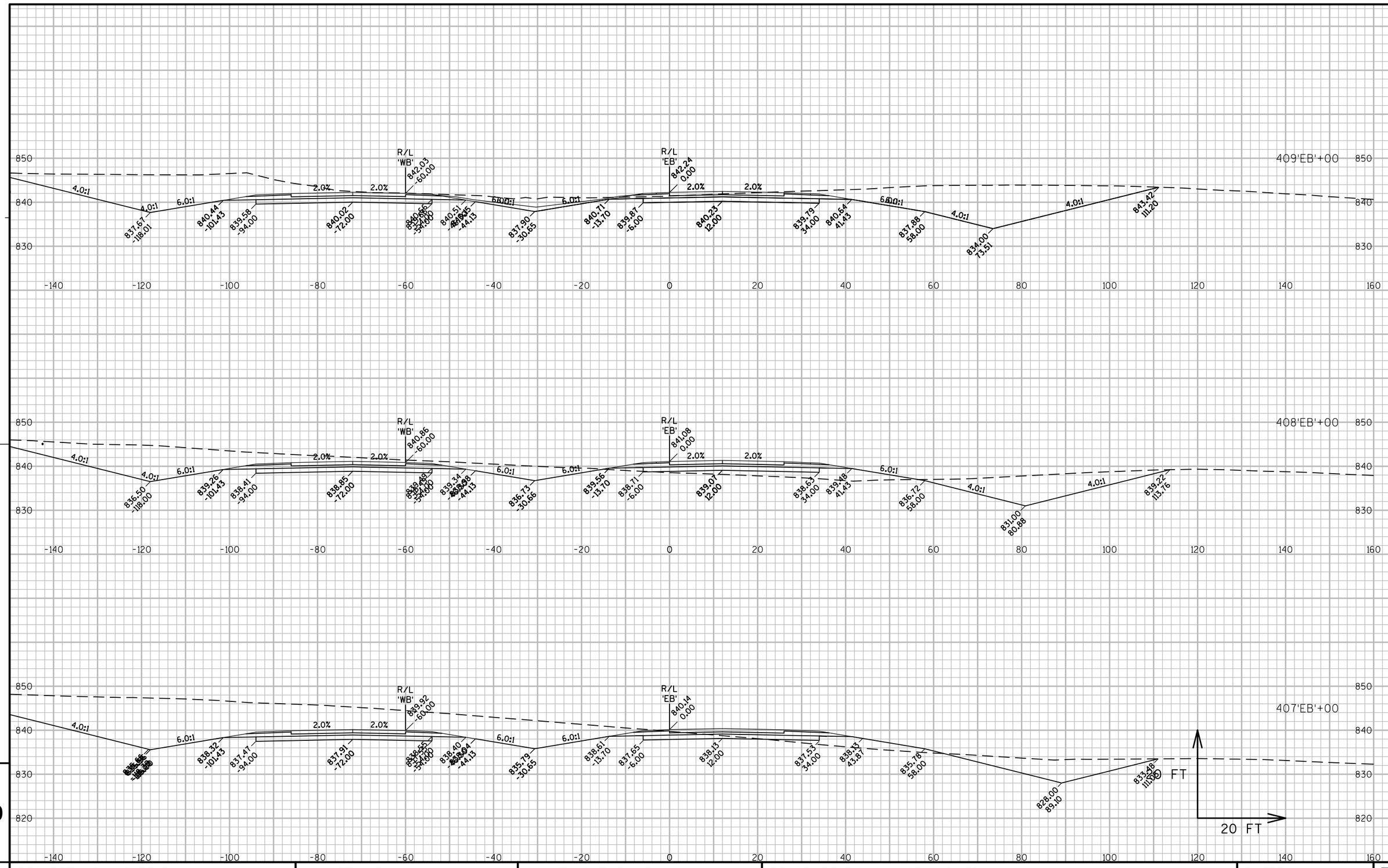
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 505	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090277_XS

PLOT DATE : 12/15/2020 9:06 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



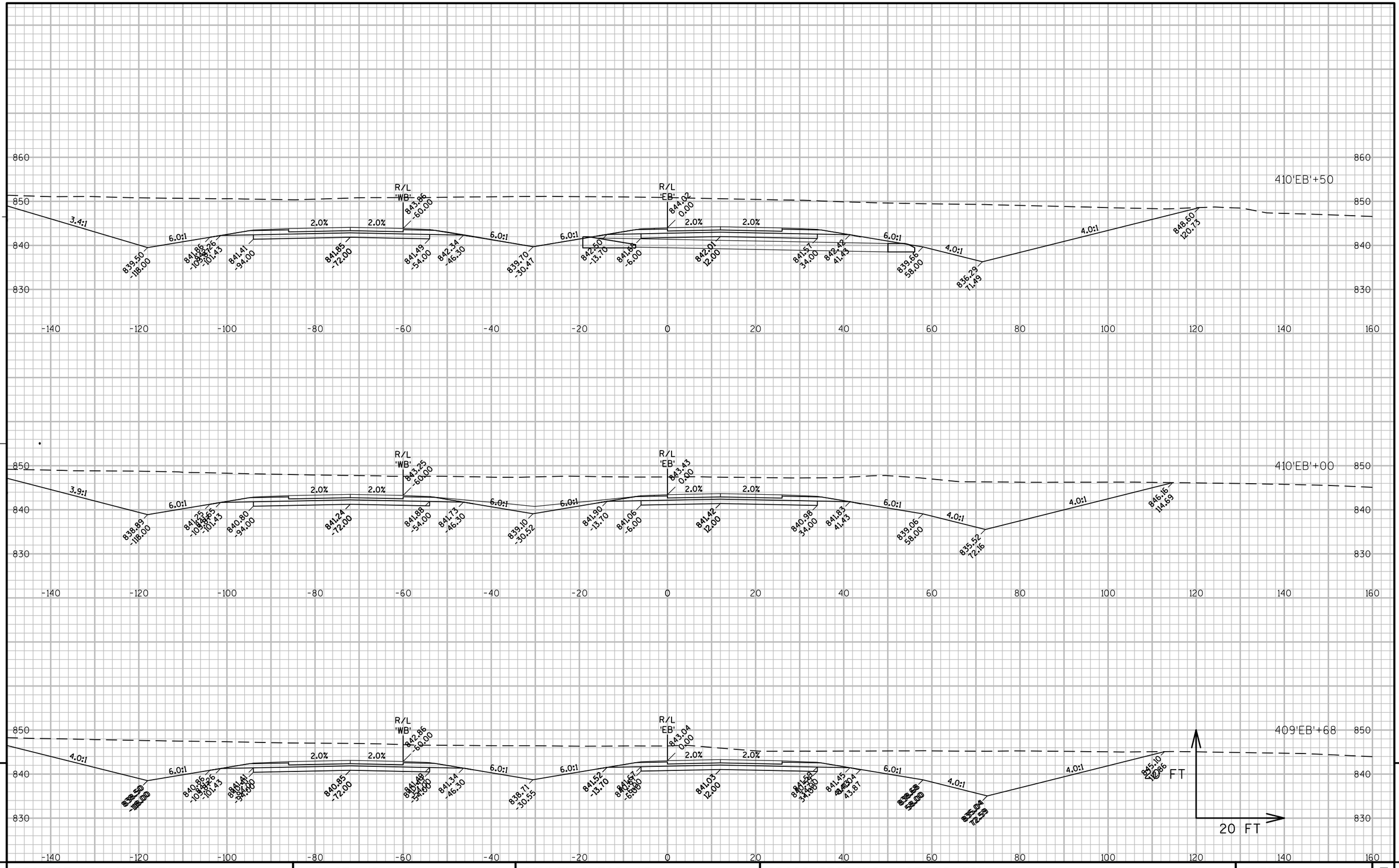
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 506	E

9

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090280_XS

PLOT DATE : 12/15/2020 9:06 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

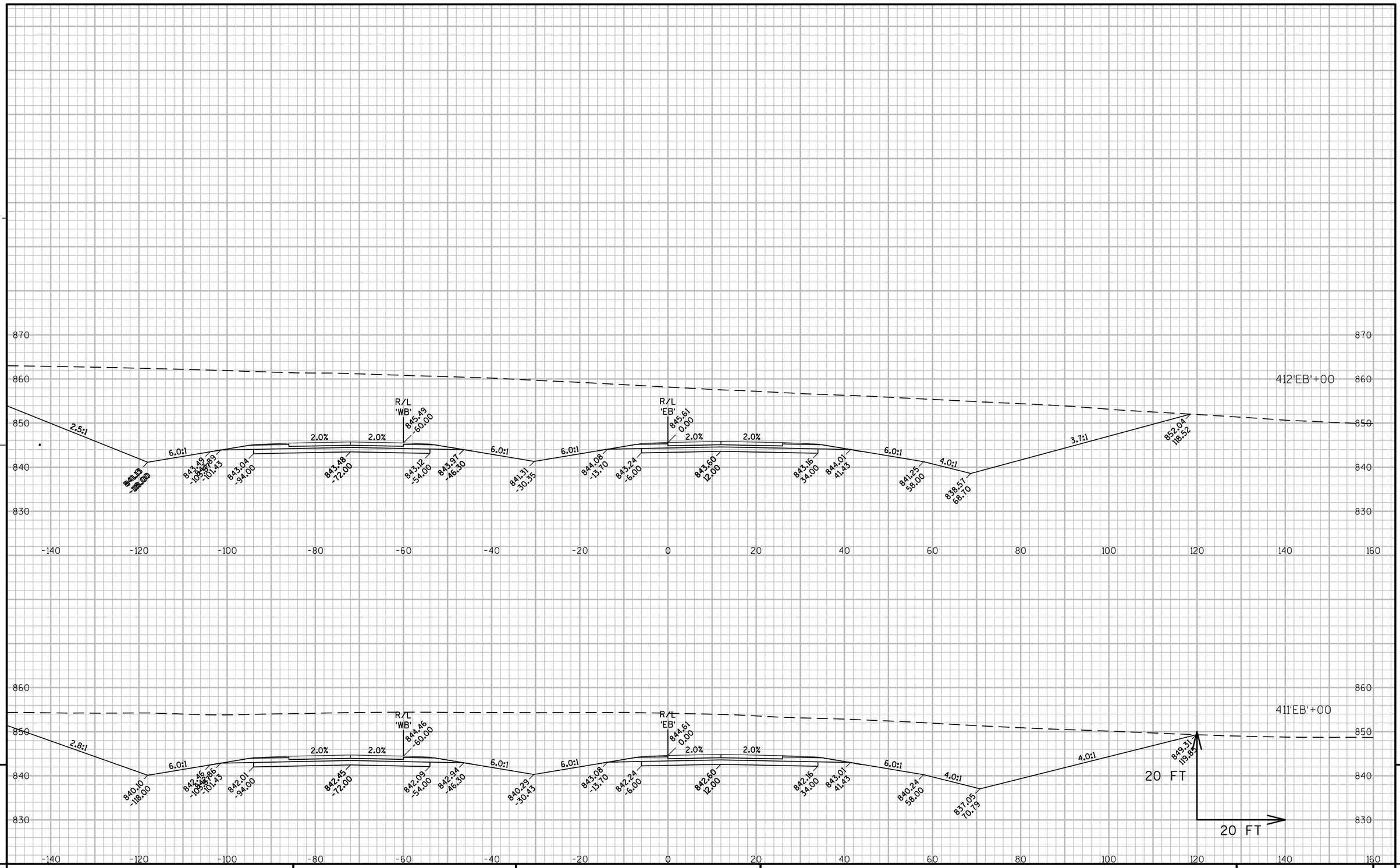


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 507	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090281_XS

PLOT DATE : 12/15/2020 9:06 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



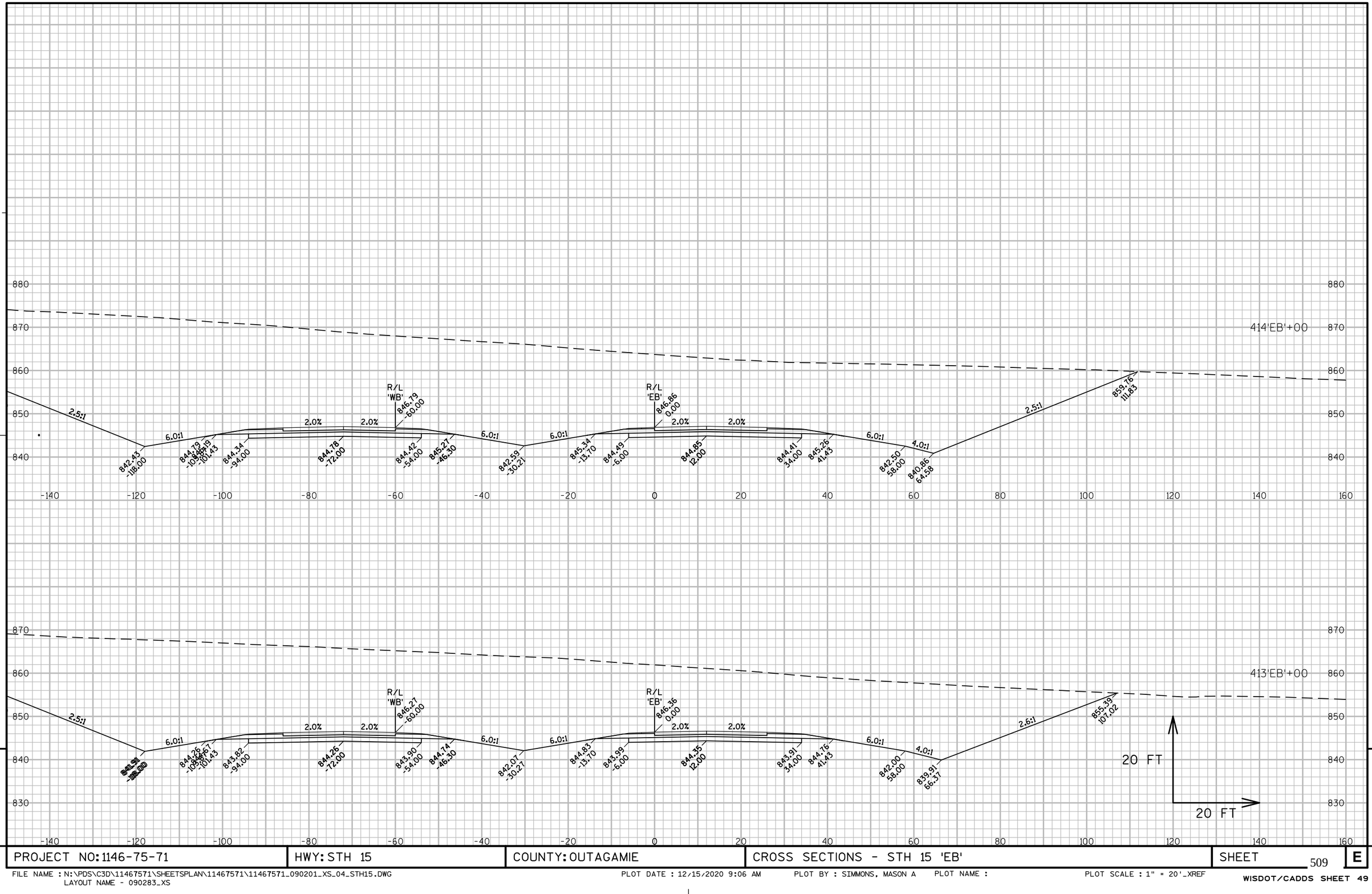
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 508	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090282_XS

PLOT DATE : 12/15/2020 9:06 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

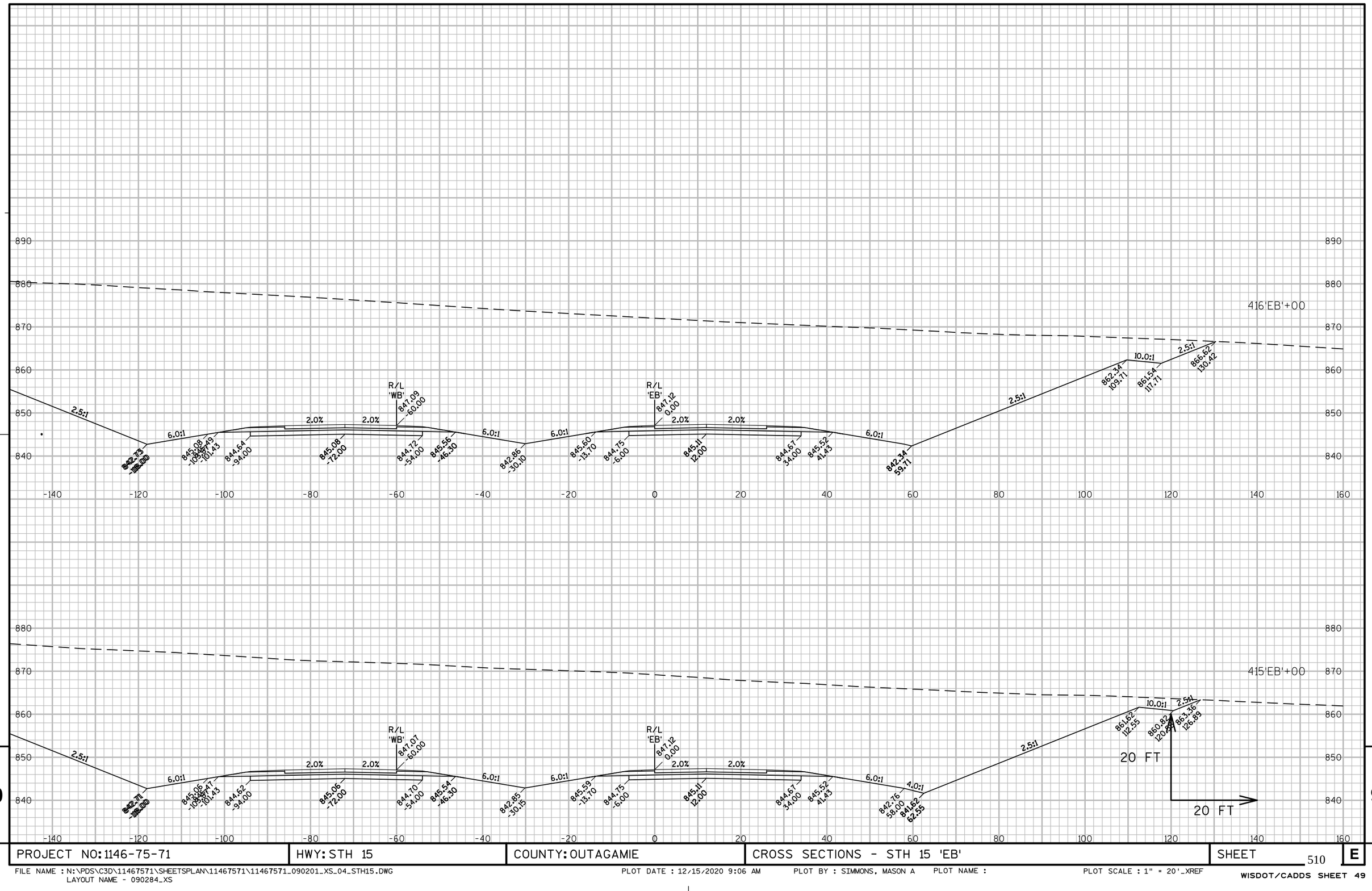


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 509	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090283_XS

PLOT DATE : 12/15/2020 9:06 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



9

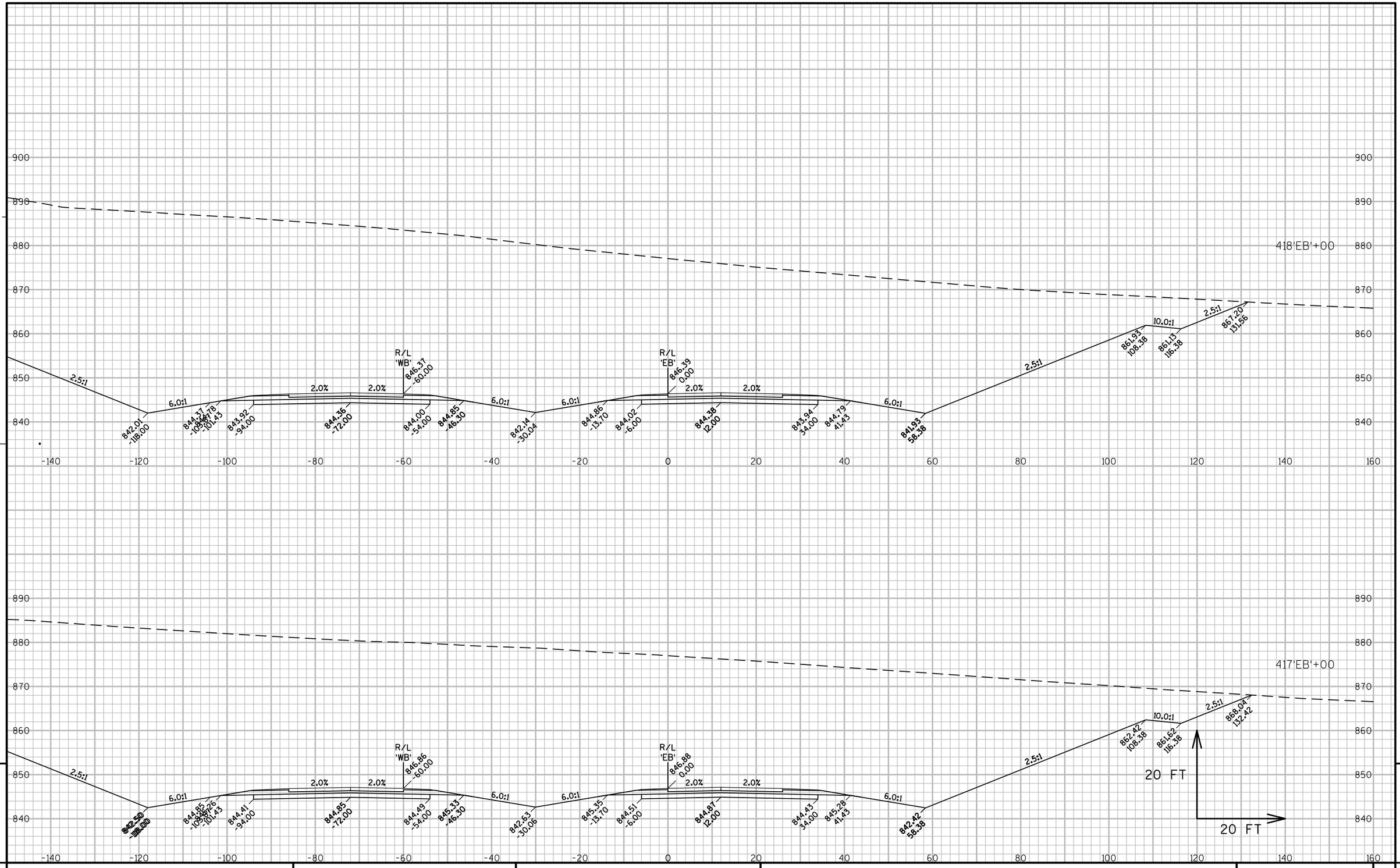
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 510	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090284_XS

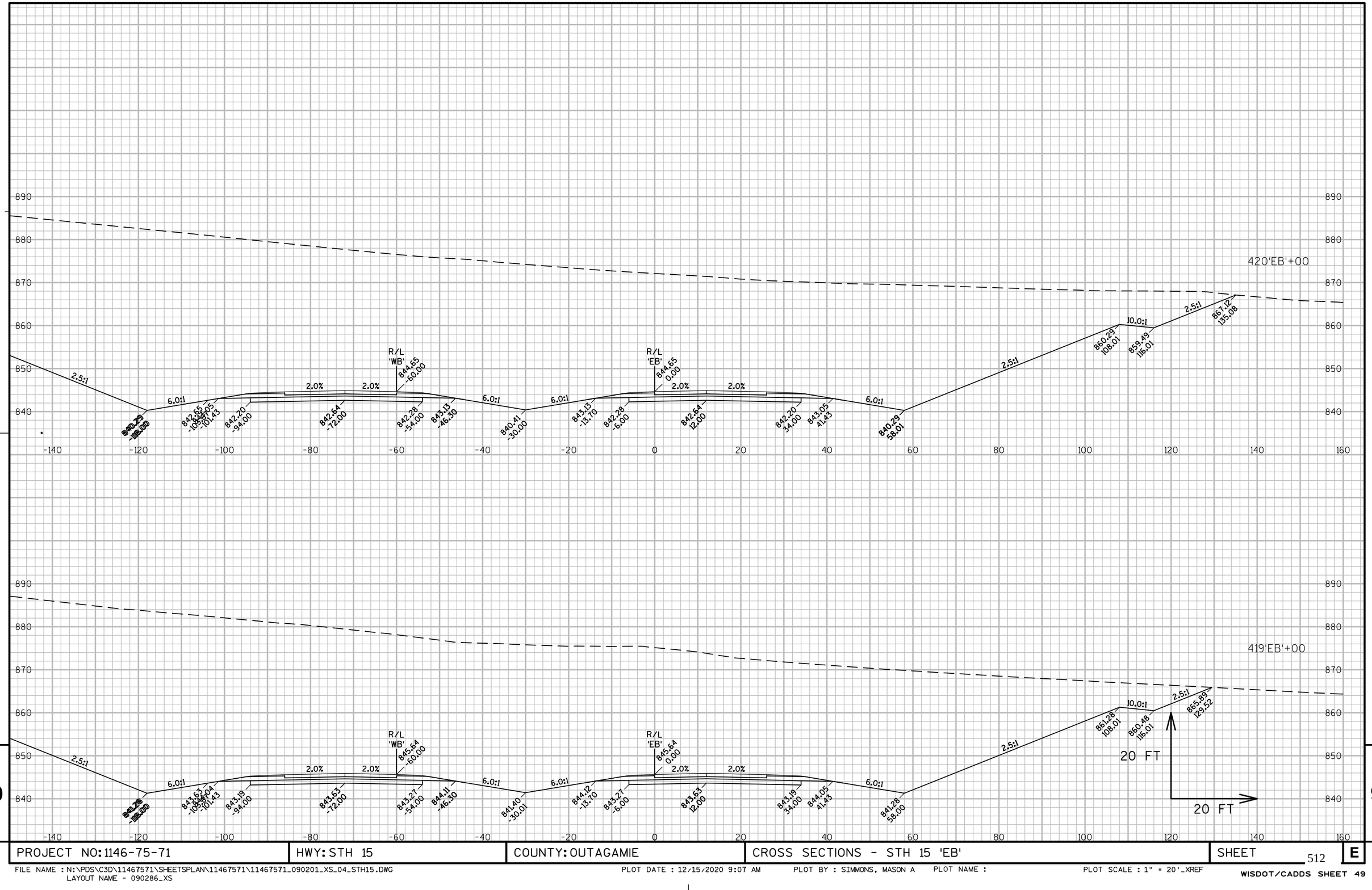
PLOT DATE : 12/15/2020 9:06 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 511	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090285_XS
PLOT DATE : 12/15/2020 9:06 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



9

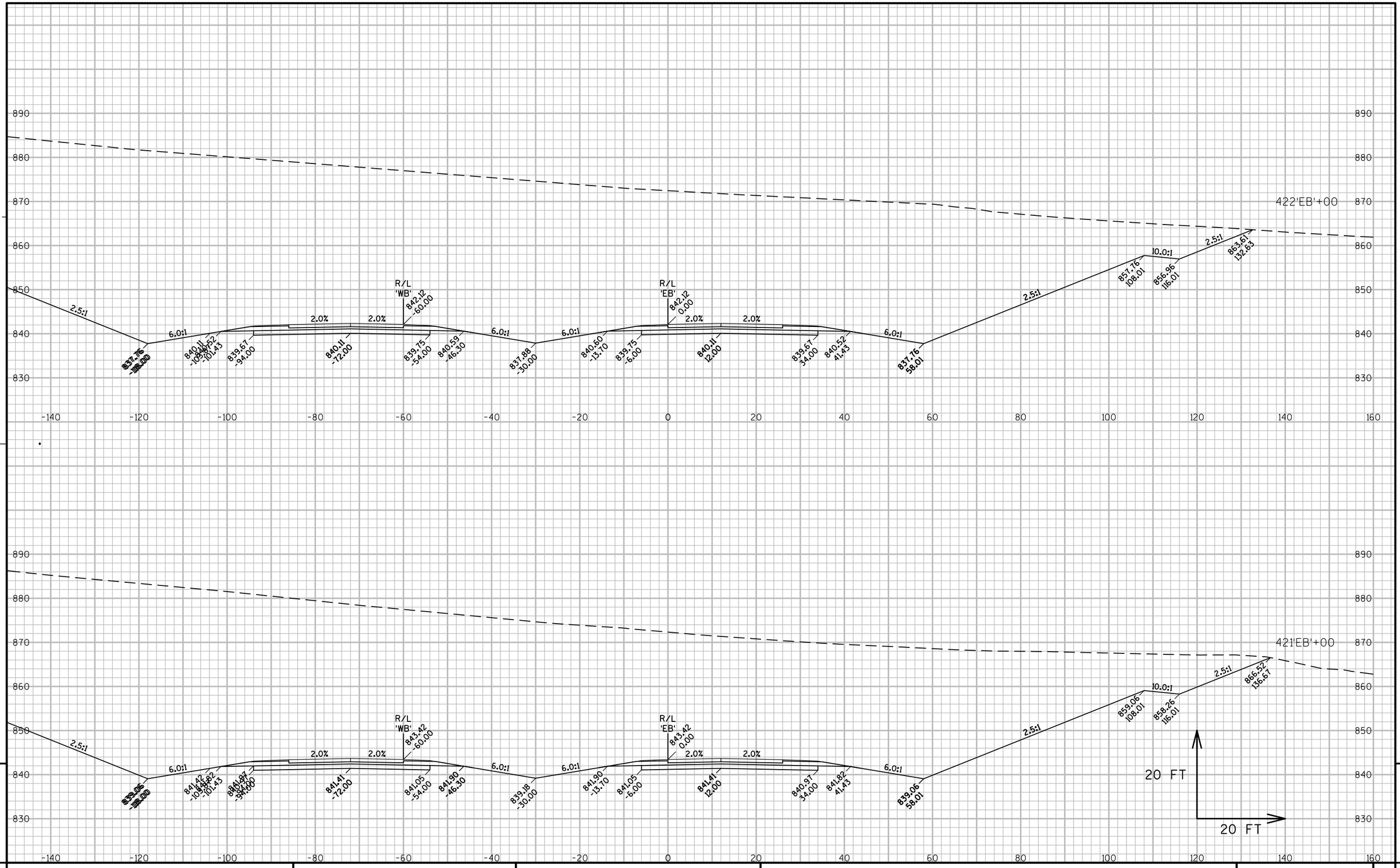
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 512	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090286_XS

PLOT DATE : 12/15/2020 9:07 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



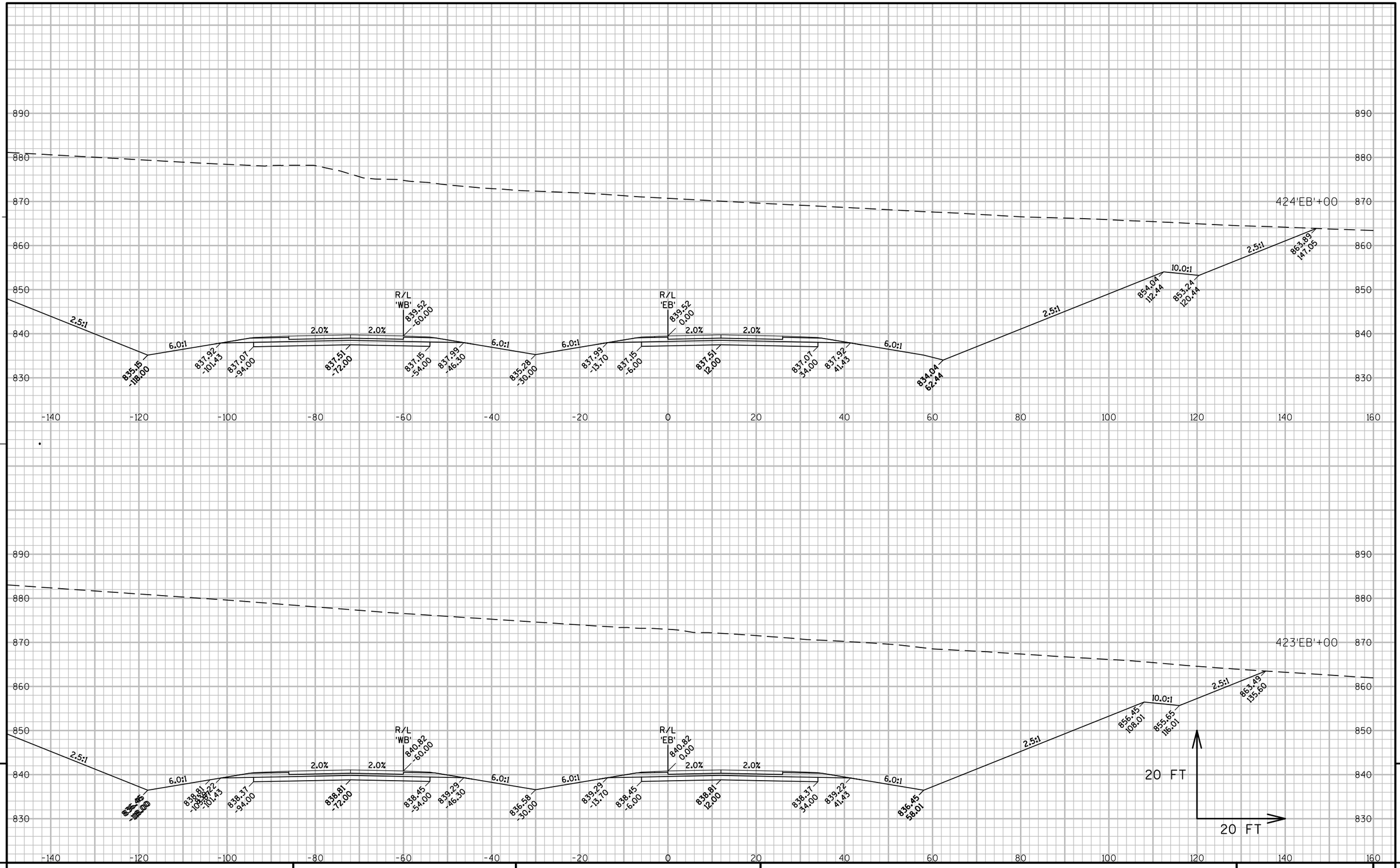
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 513	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090287_XS

PLOT DATE : 12/15/2020 9:07 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

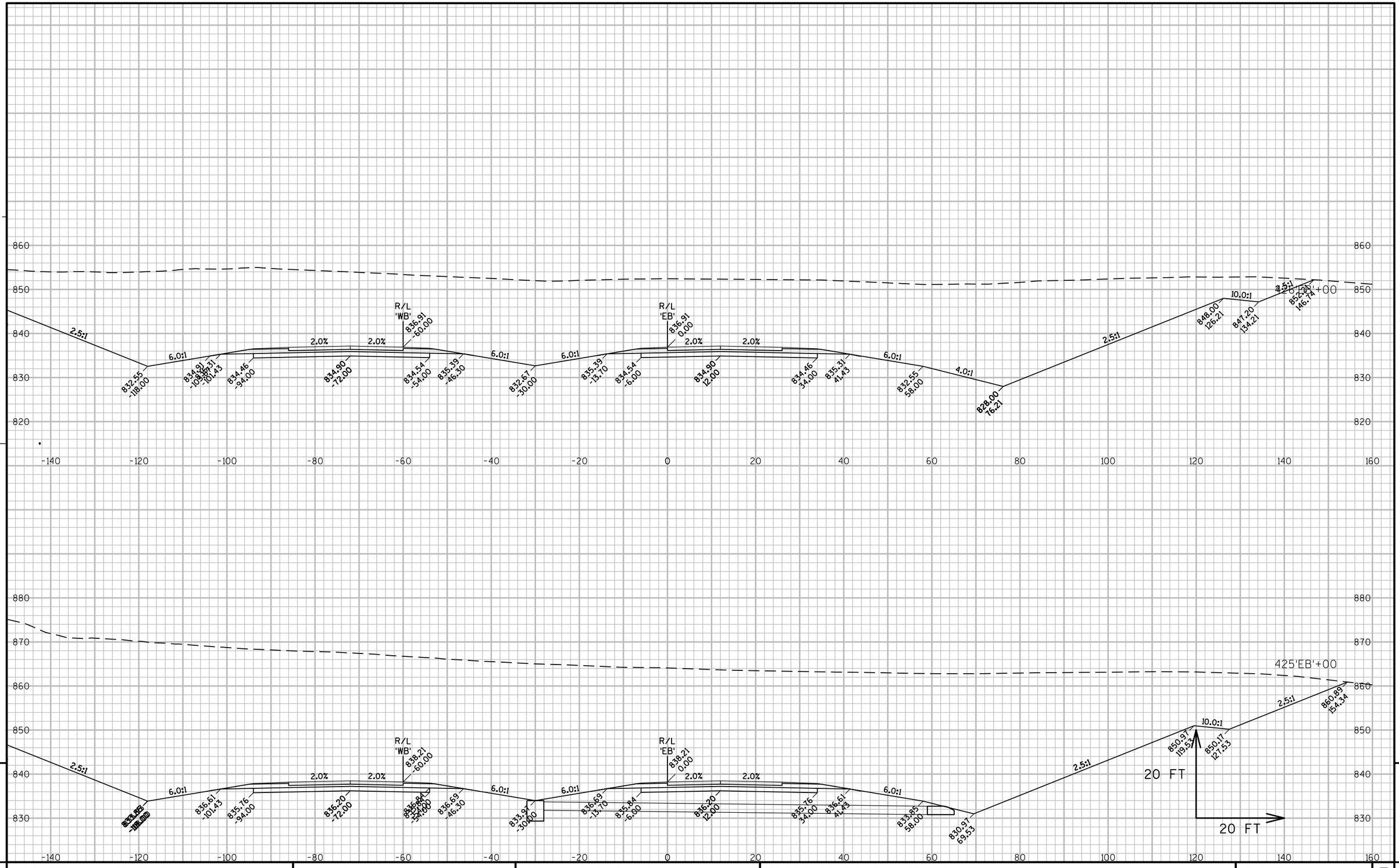


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 514 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090288_XS

PLOT DATE : 12/15/2020 9:07 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

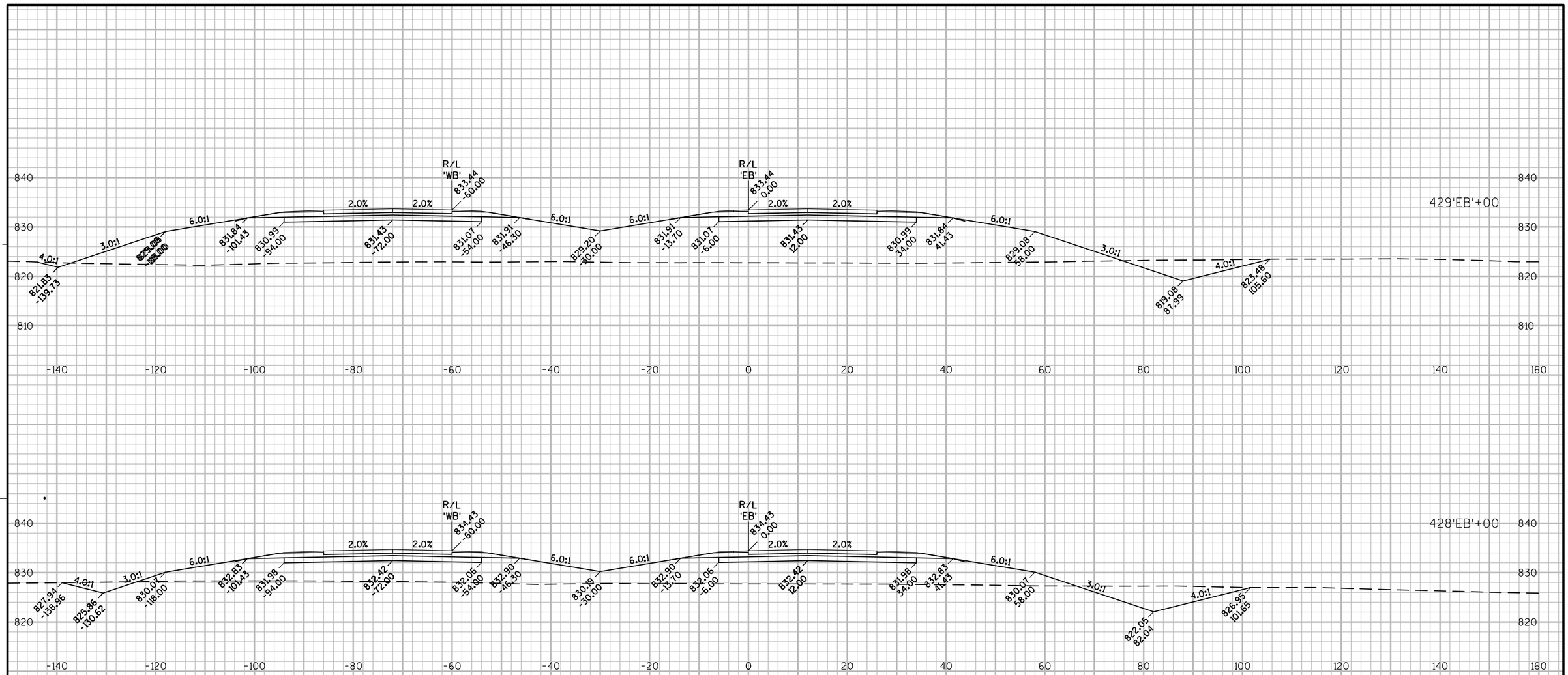


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 515	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090289_XS

PLOT DATE : 12/15/2020 9:07 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

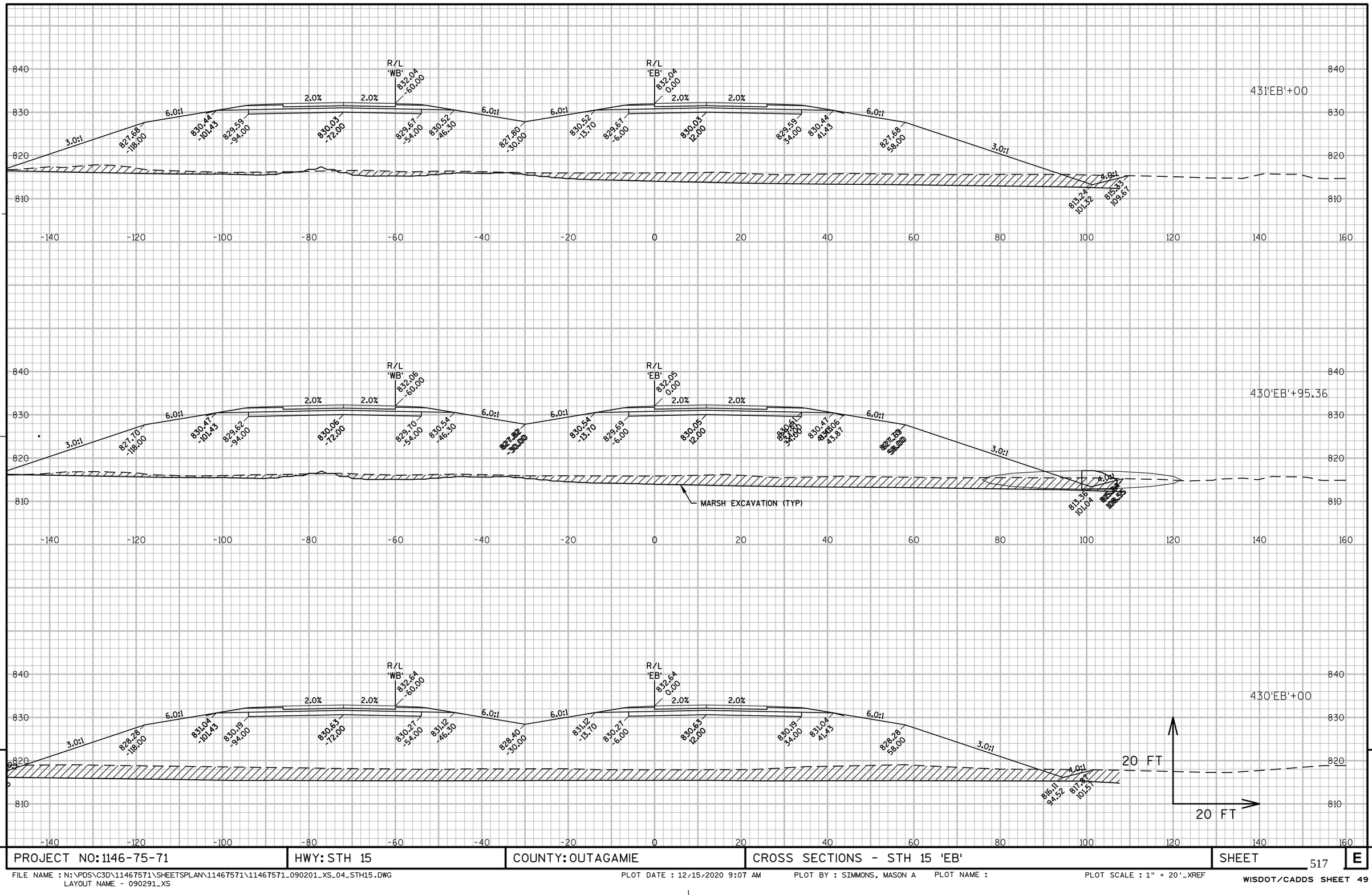


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 516	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090290_XS

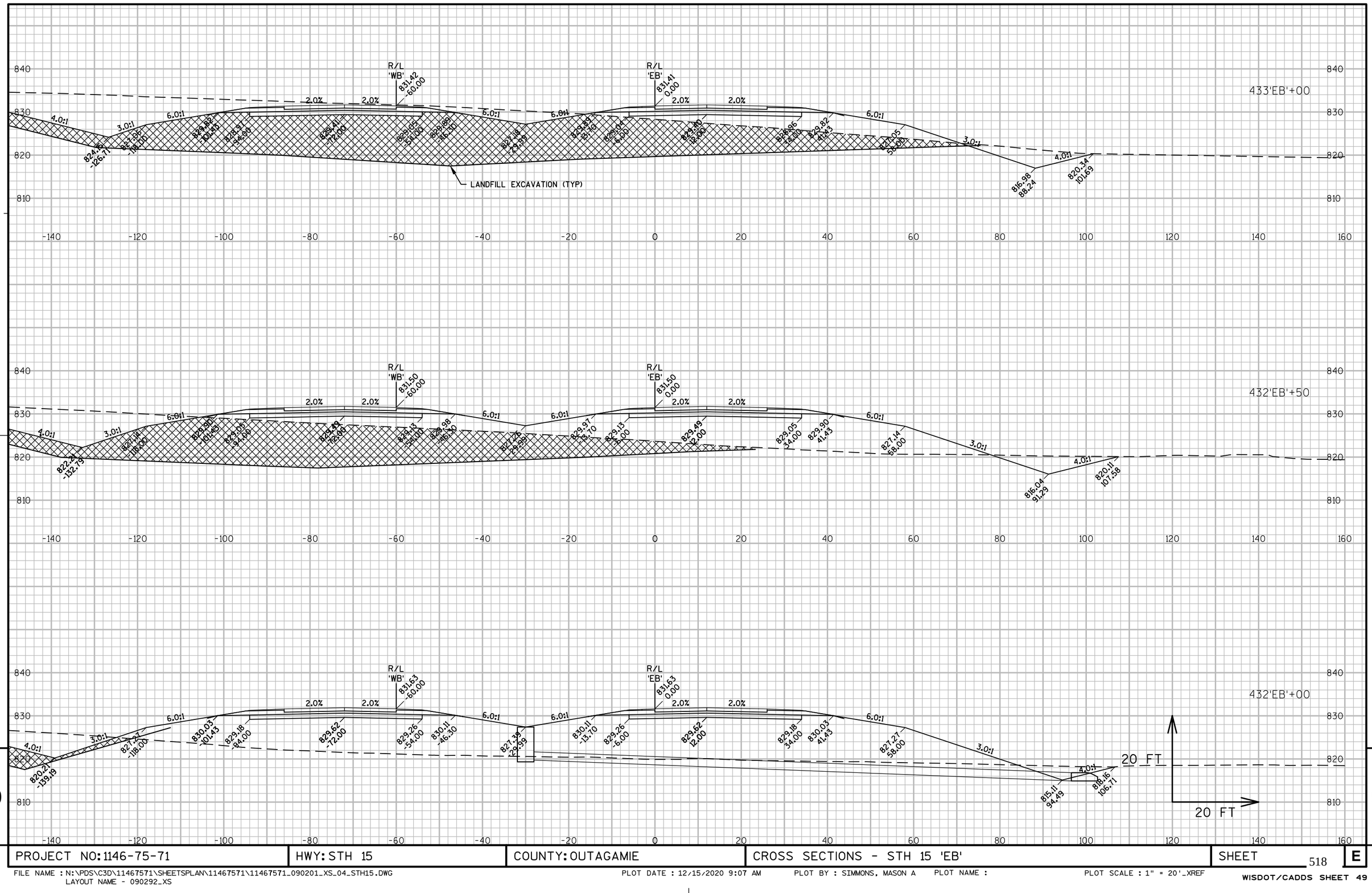
PLOT DATE : 12/15/2020 9:07 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 517	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090291_XS
PLOT DATE : 12/15/2020 9:07 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49

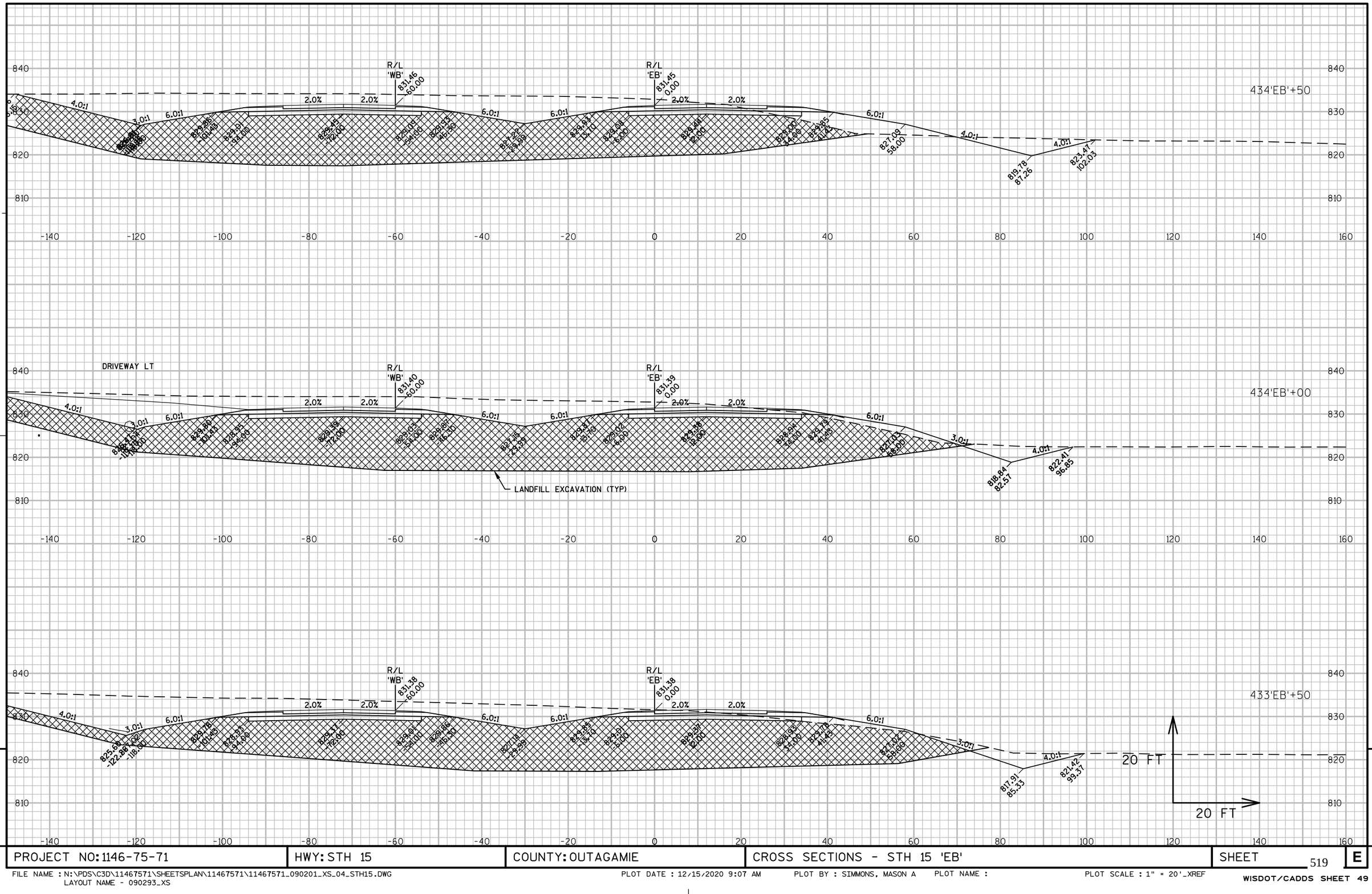


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 518	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090292_XS

PLOT DATE : 12/15/2020 9:07 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

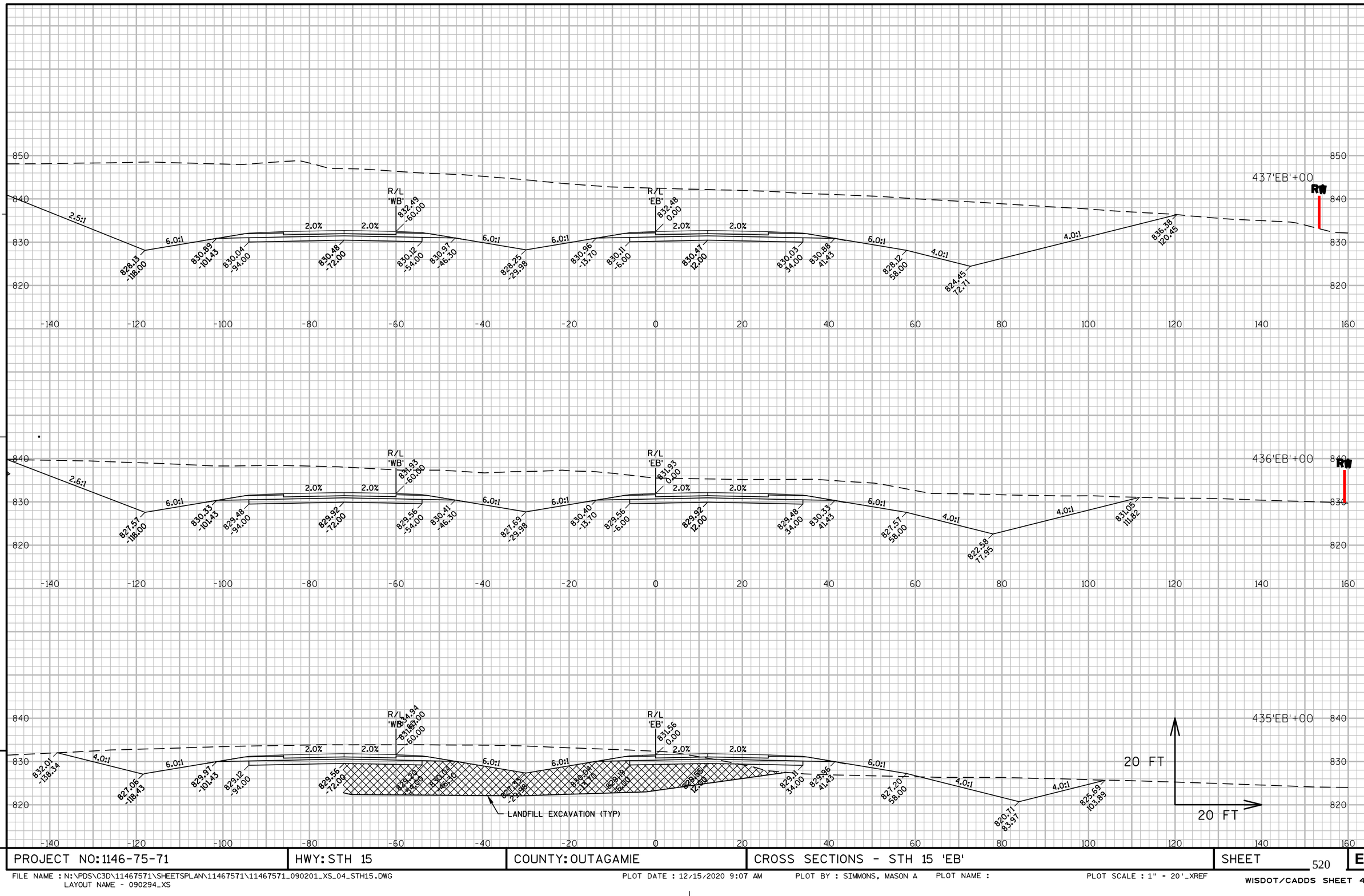
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 519	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090293_XS

PLOT DATE : 12/15/2020 9:07 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



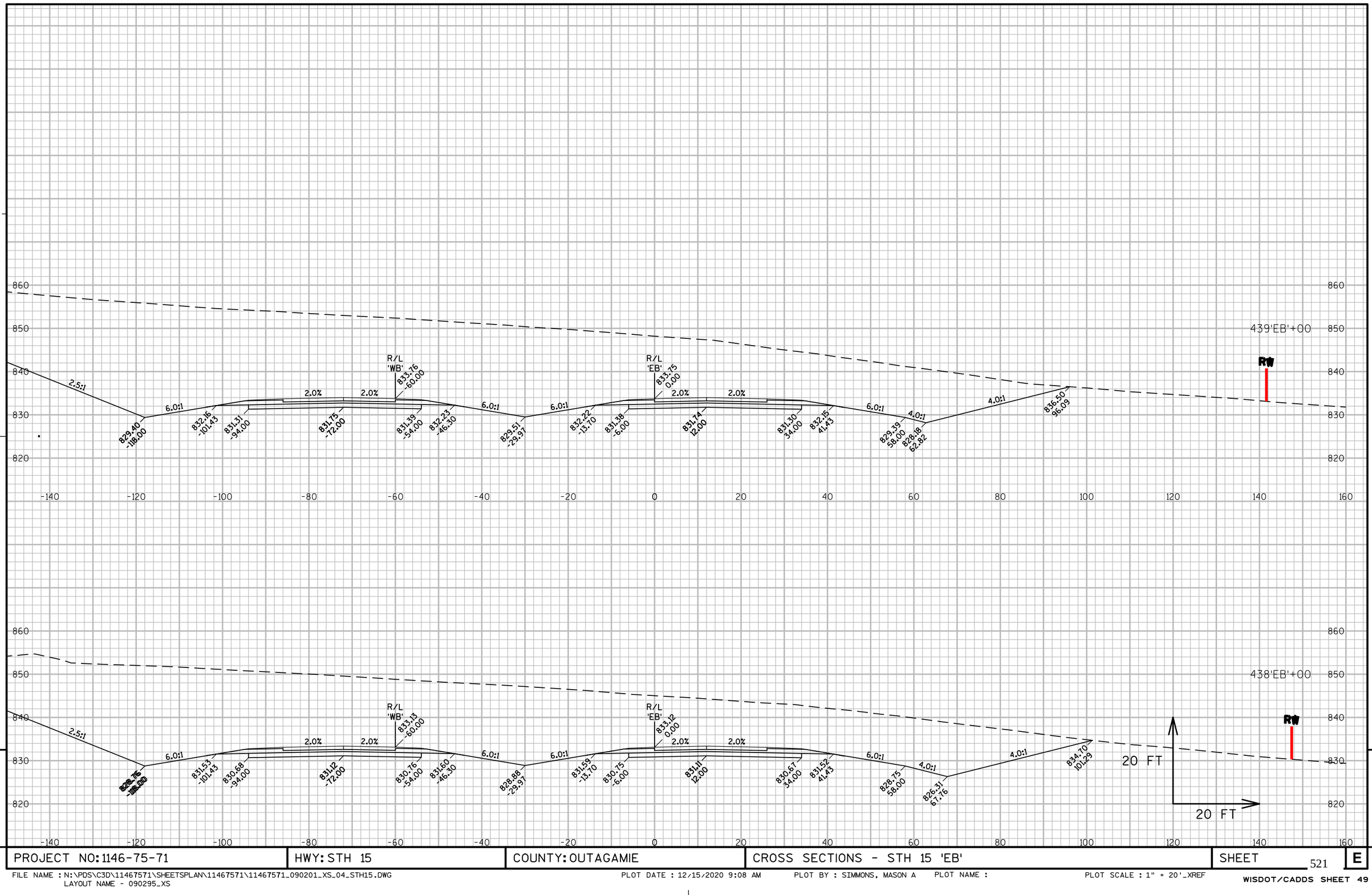
9

9

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 520	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090294_XS

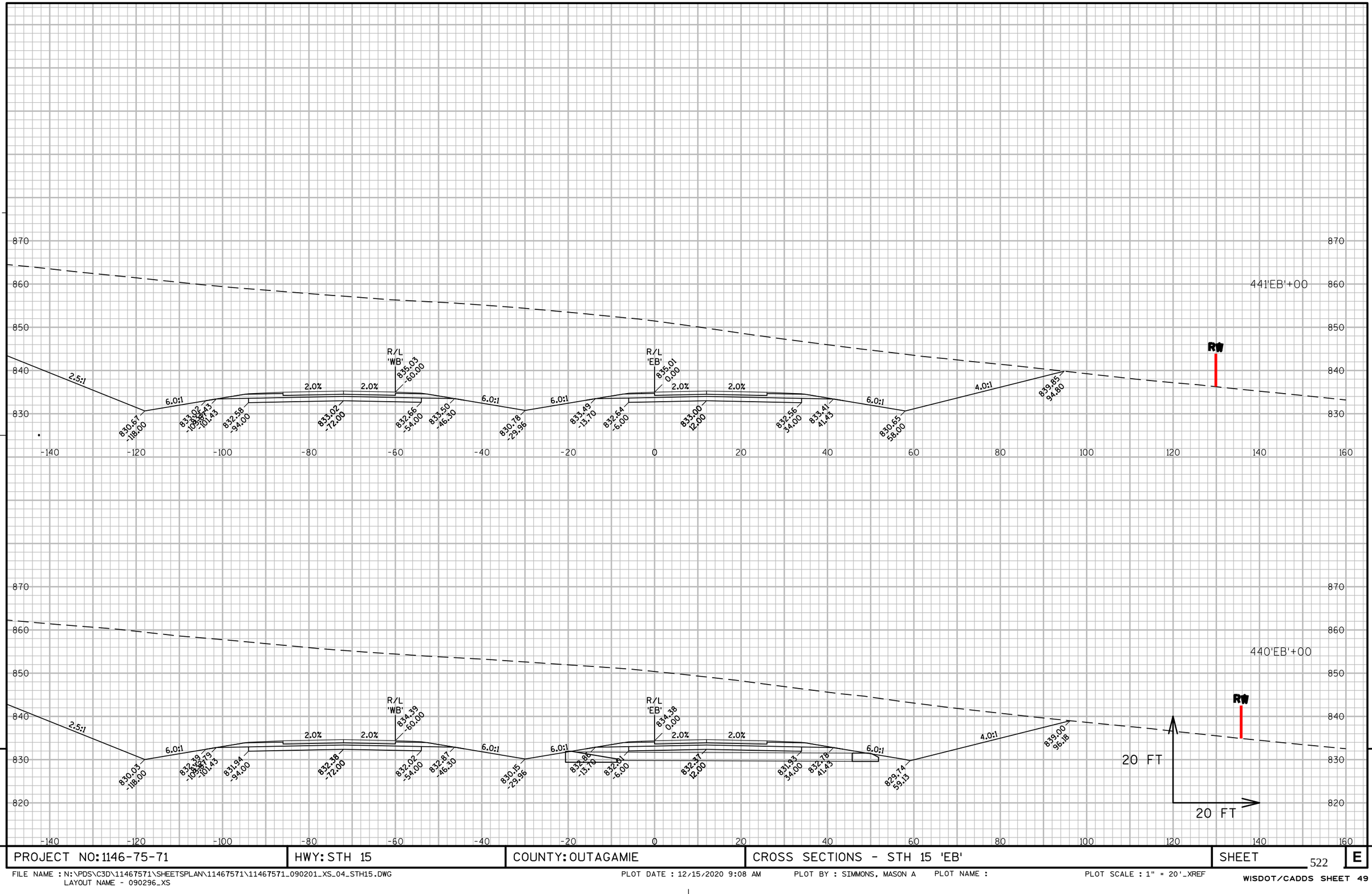
PLOT DATE : 12/15/2020 9:07 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



9

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 521	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090295_XS
PLOT DATE : 12/15/2020 9:08 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



9

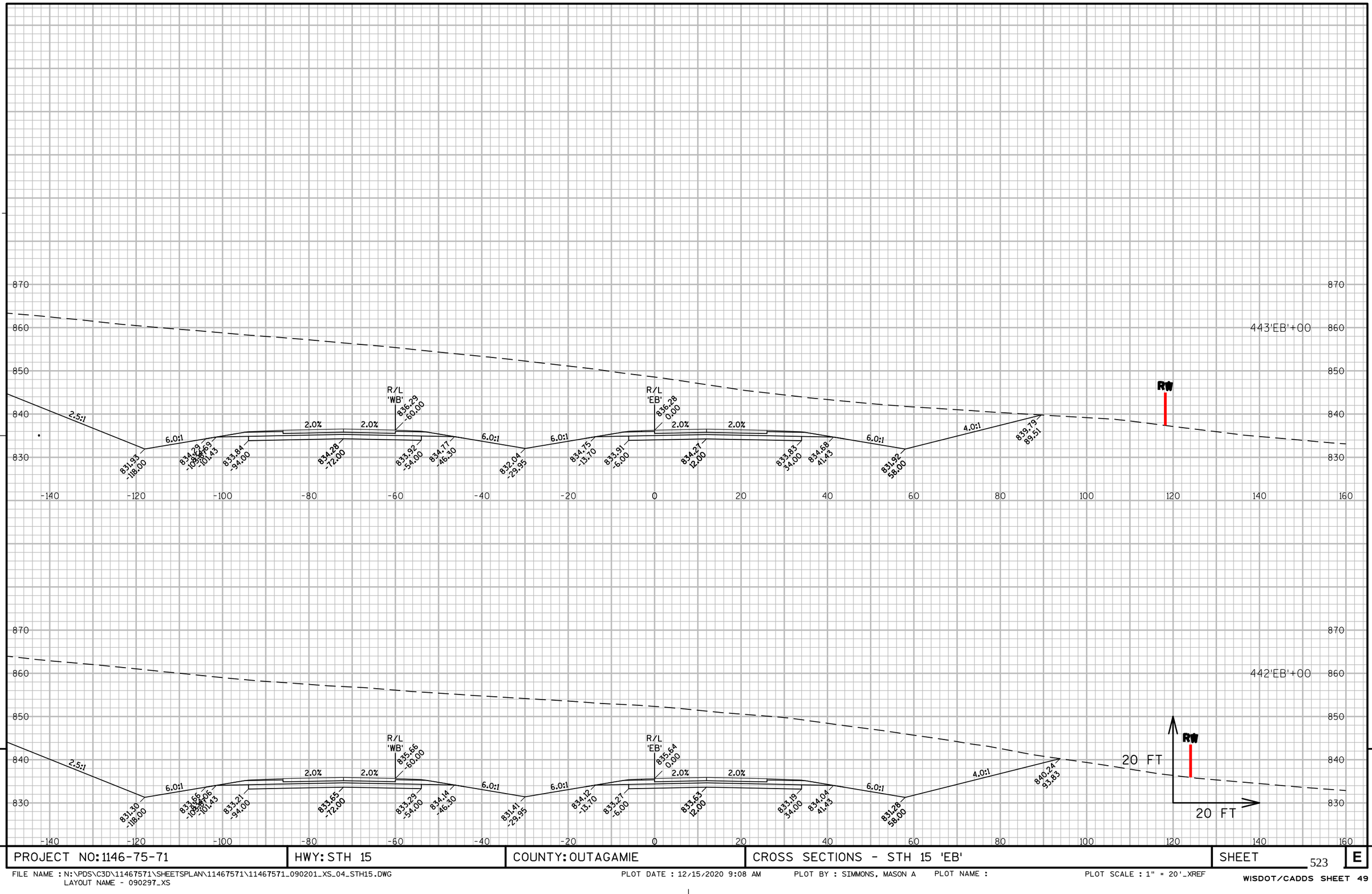
9

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 522	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090296_XS

PLOT DATE : 12/15/2020 9:08 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



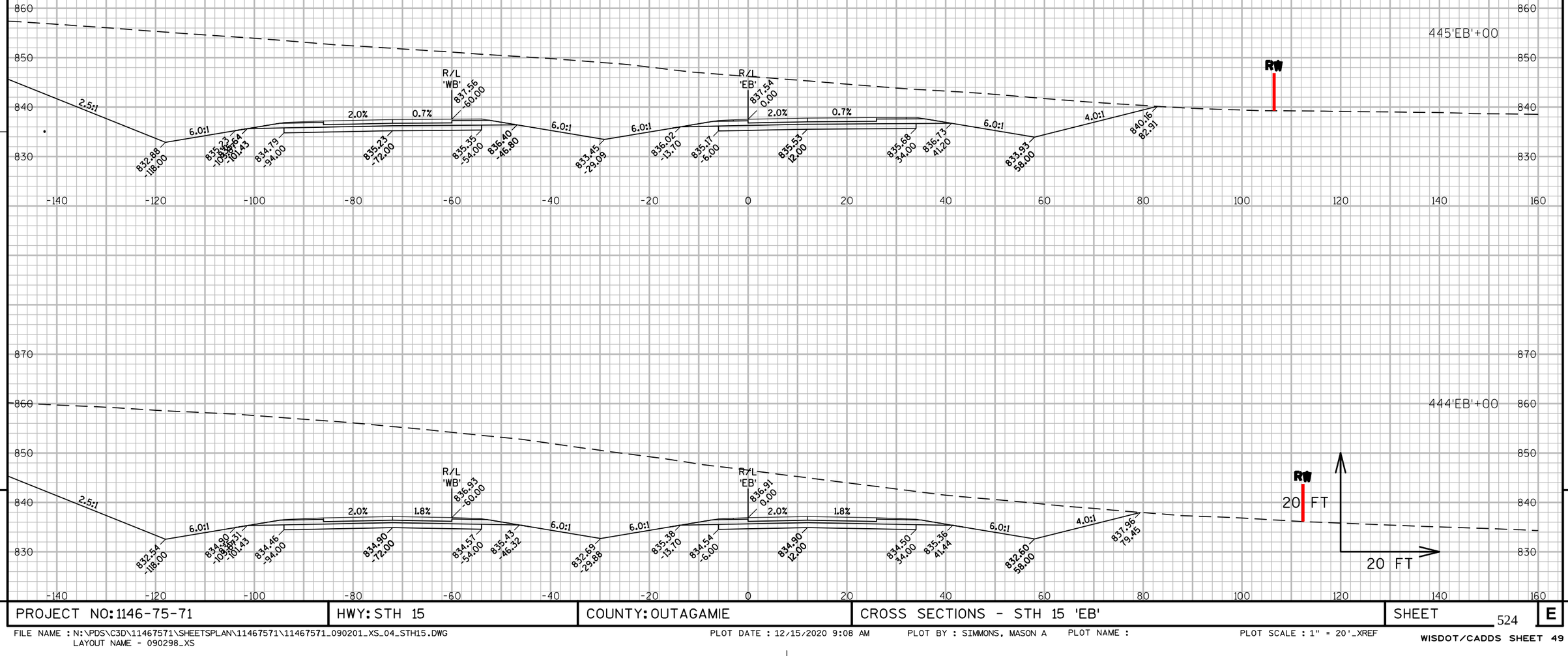
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 523	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090297_XS

PLOT DATE : 12/15/2020 9:08 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



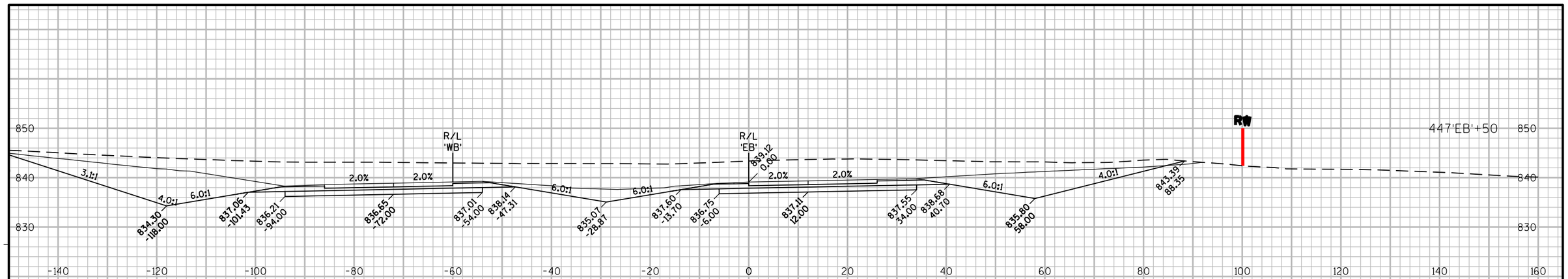
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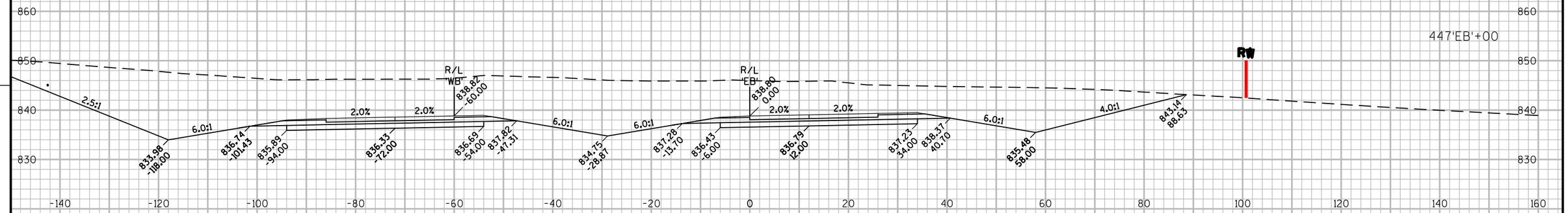
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 524	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090298_XS

PLOT DATE : 12/15/2020 9:08 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49





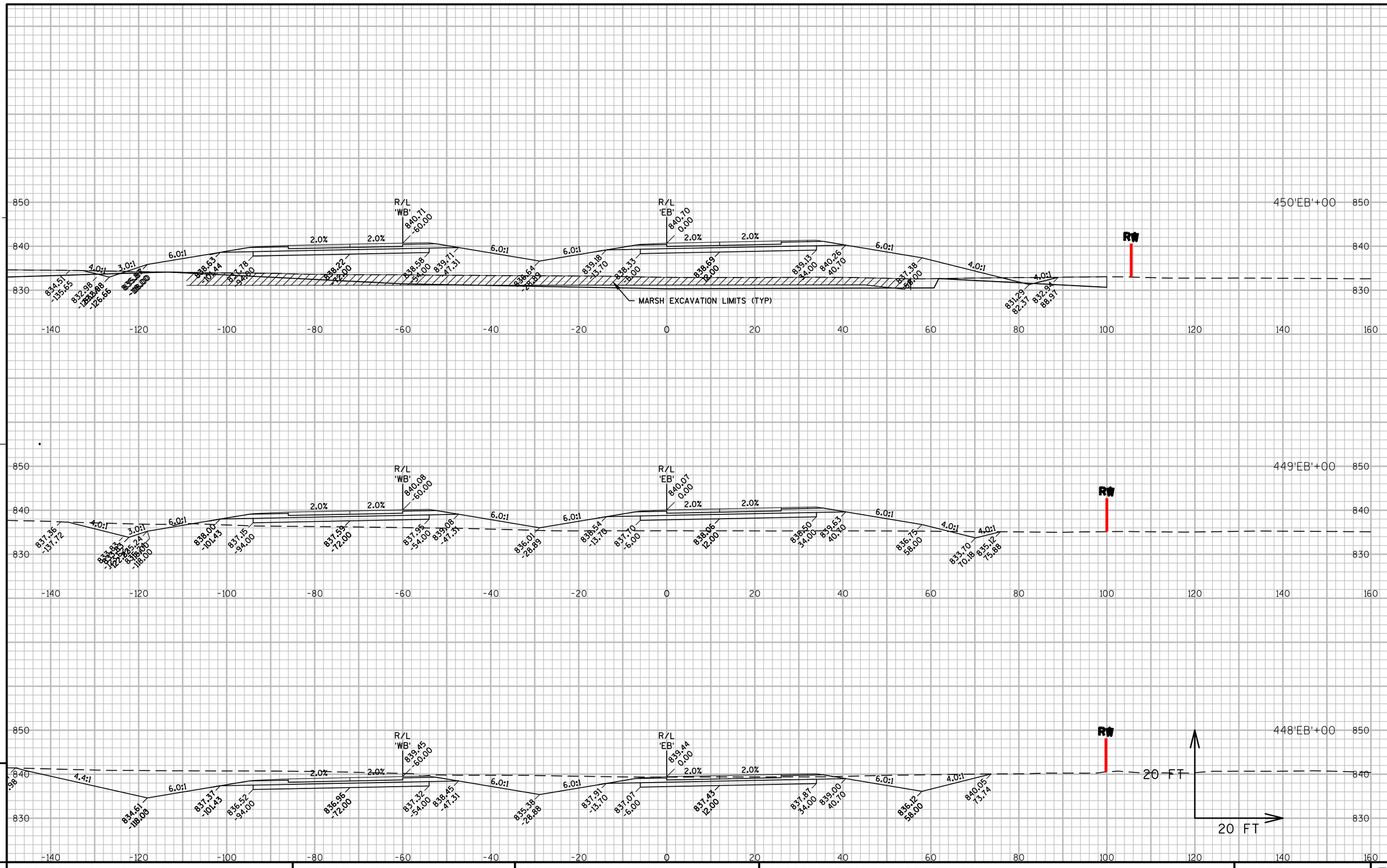


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 525	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090299_XS

PLOT DATE : 12/15/2020 9:08 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 526	E

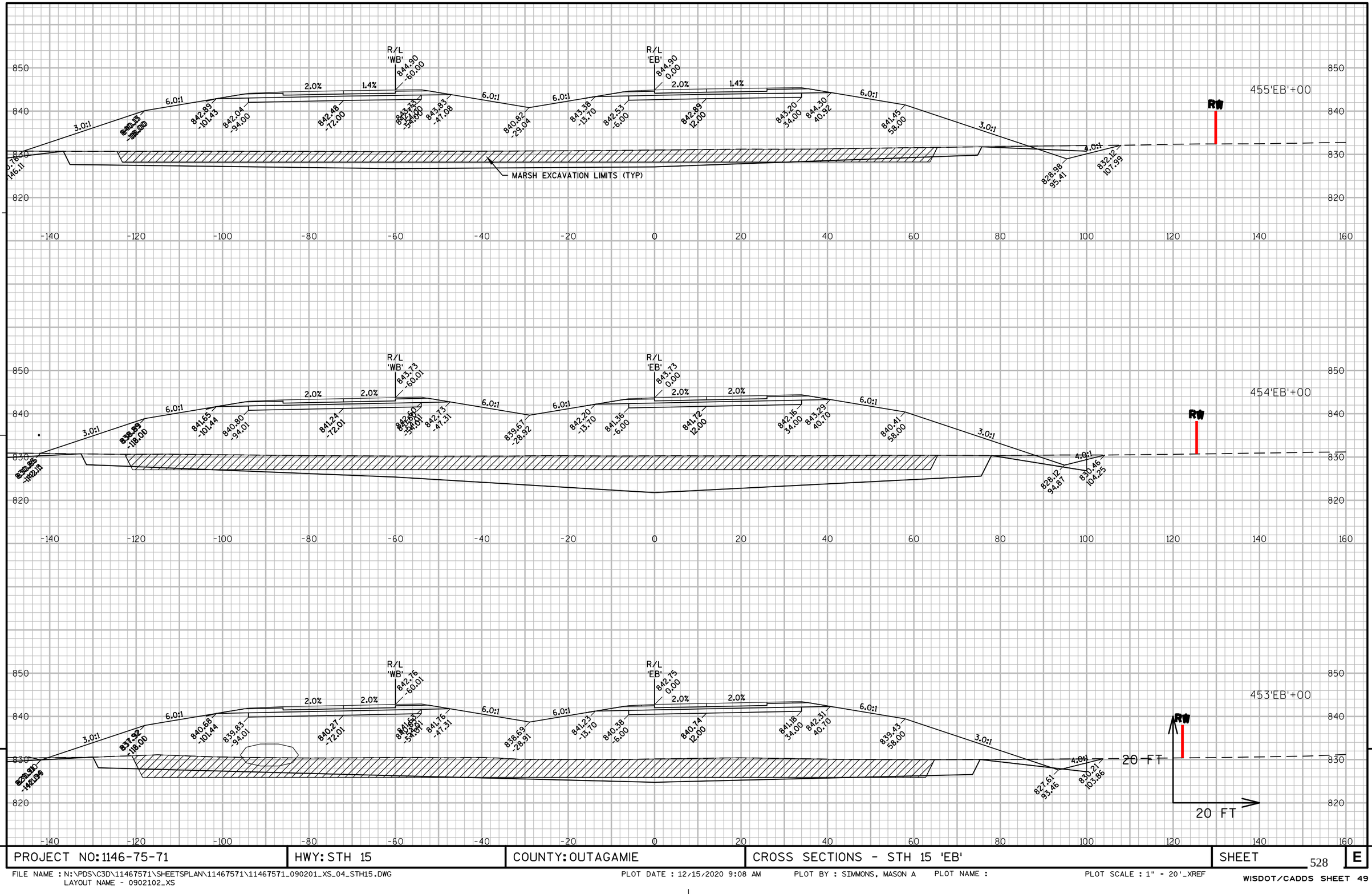
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LAYOUT NAME - 0902100_XS
PLOT DATE : 12/15/2020 9:08 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49

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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 527	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 0902101_XS
PLOT DATE : 12/15/2020 9:08 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

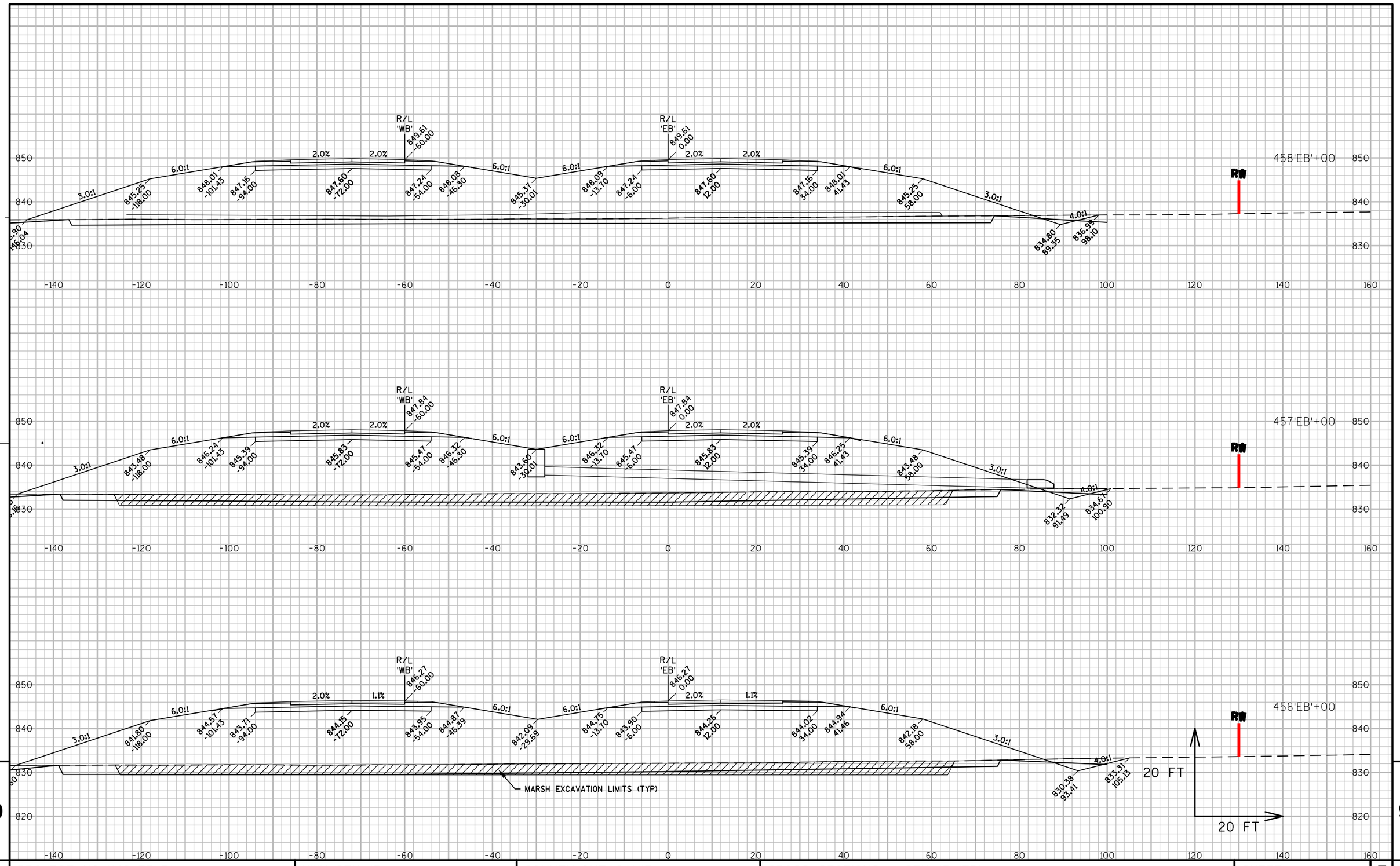


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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 528	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 0902102_XS
PLOT DATE : 12/15/2020 9:08 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 529	E

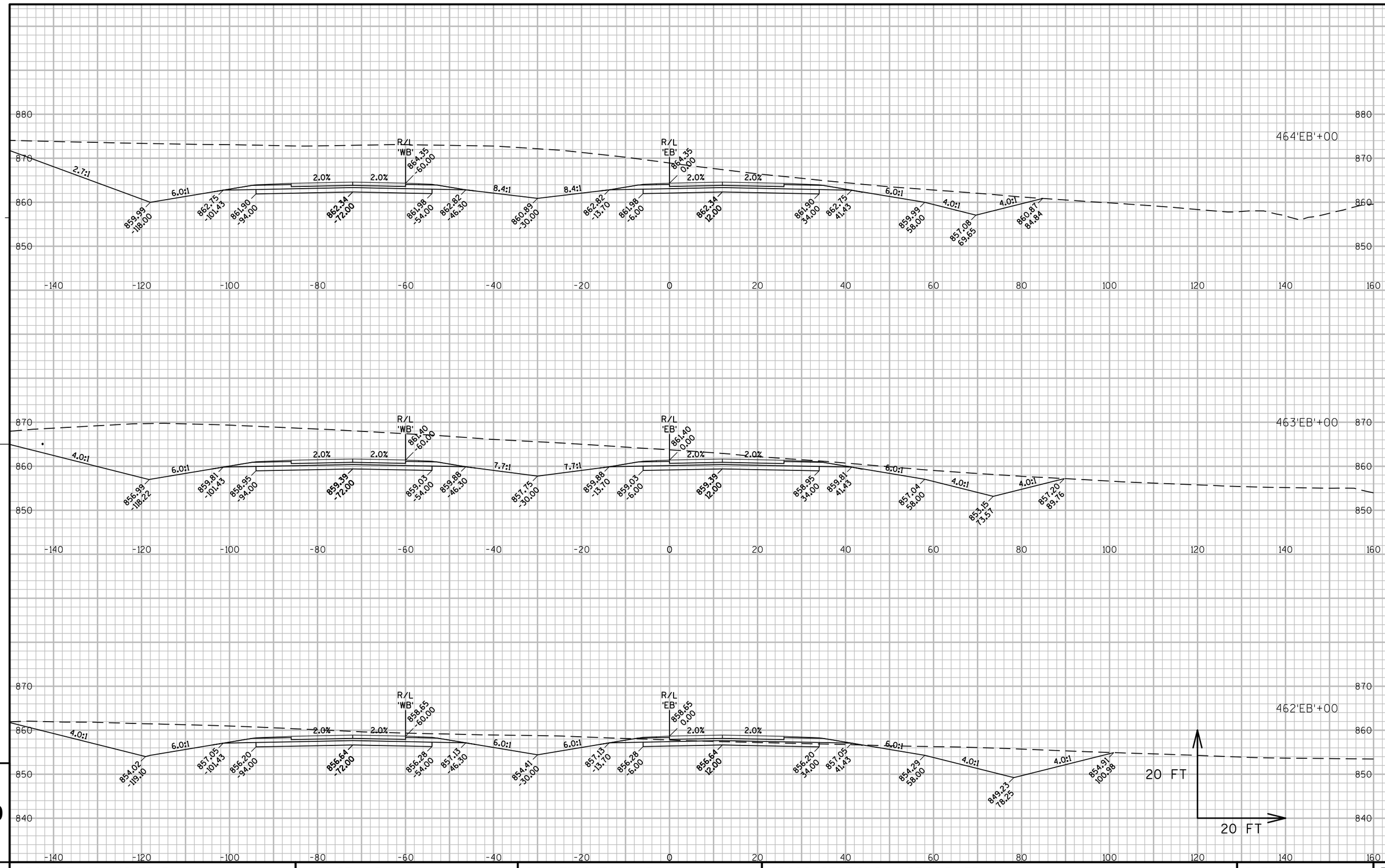
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LAYOUT NAME - 0902103_XS
PLOT DATE : 12/15/2020 9:08 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 530	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 0902104_XS

PLOT DATE : 12/15/2020 9:09 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

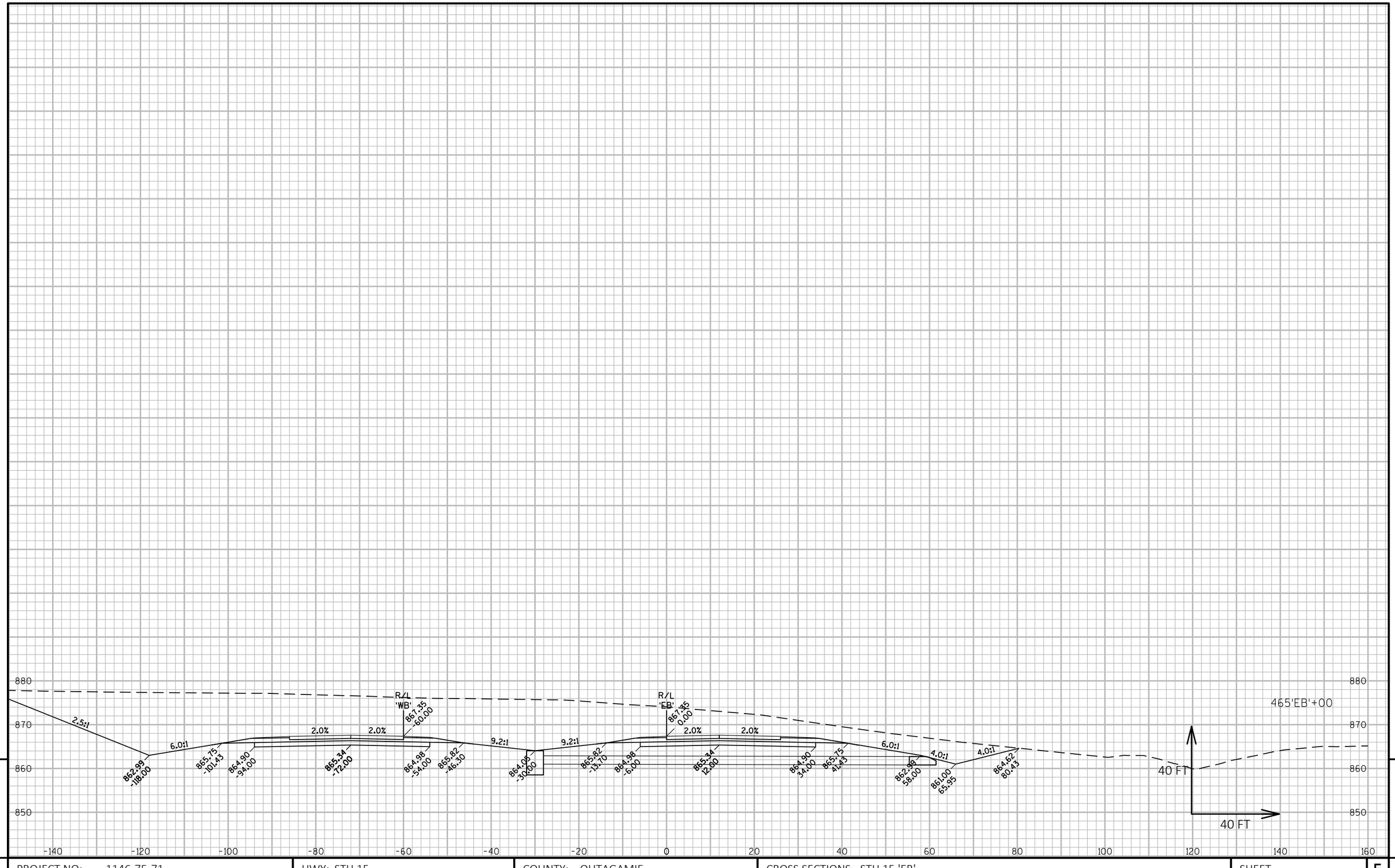


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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 531	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 0902105_XS
PLOT DATE : 12/15/2020 9:09 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



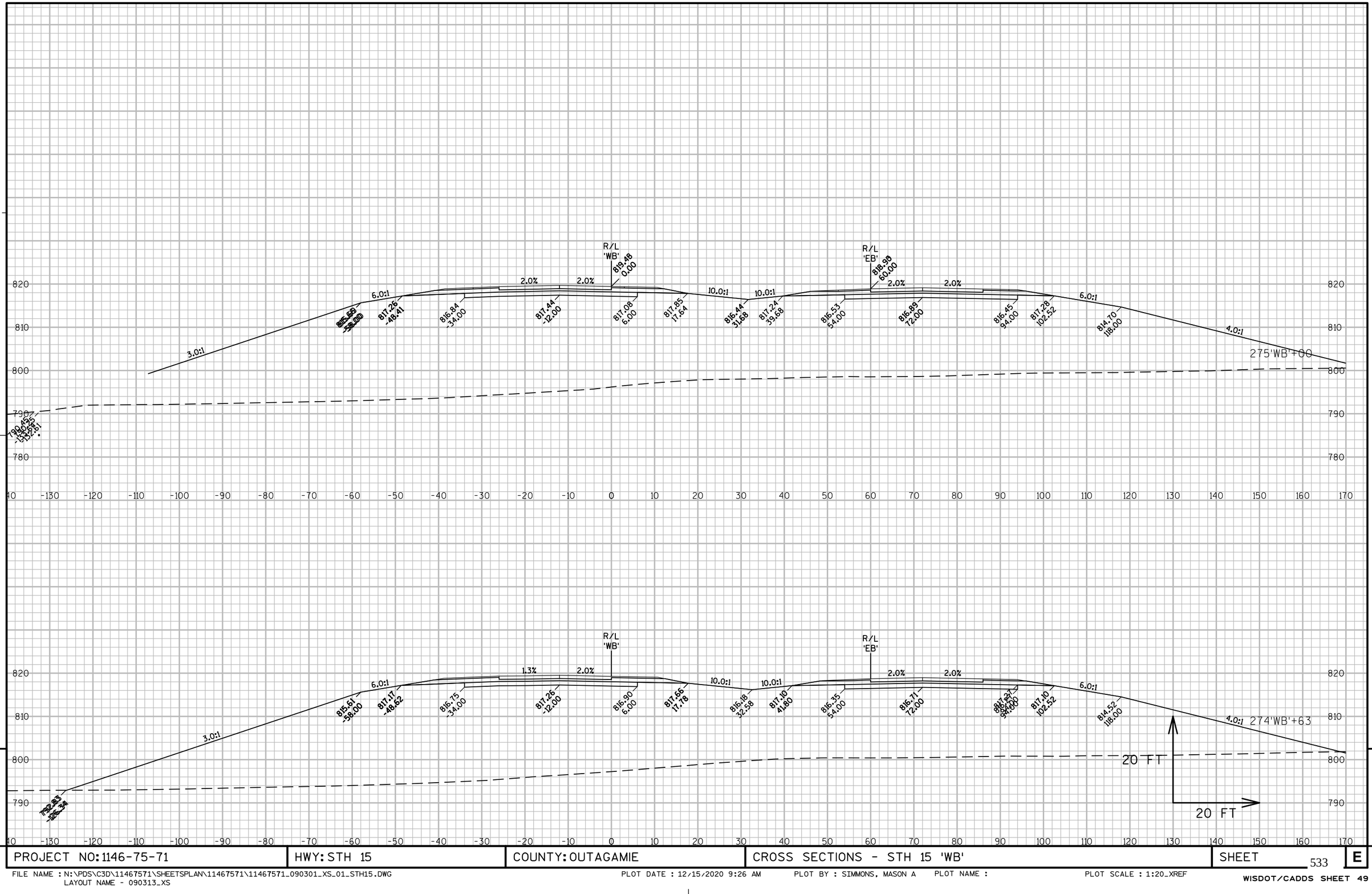
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET 532	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 092106_XS

PLOT DATE : 12/15/2020 9:09 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:40 FT HORZ. / 1 IN:40 FT VERT.



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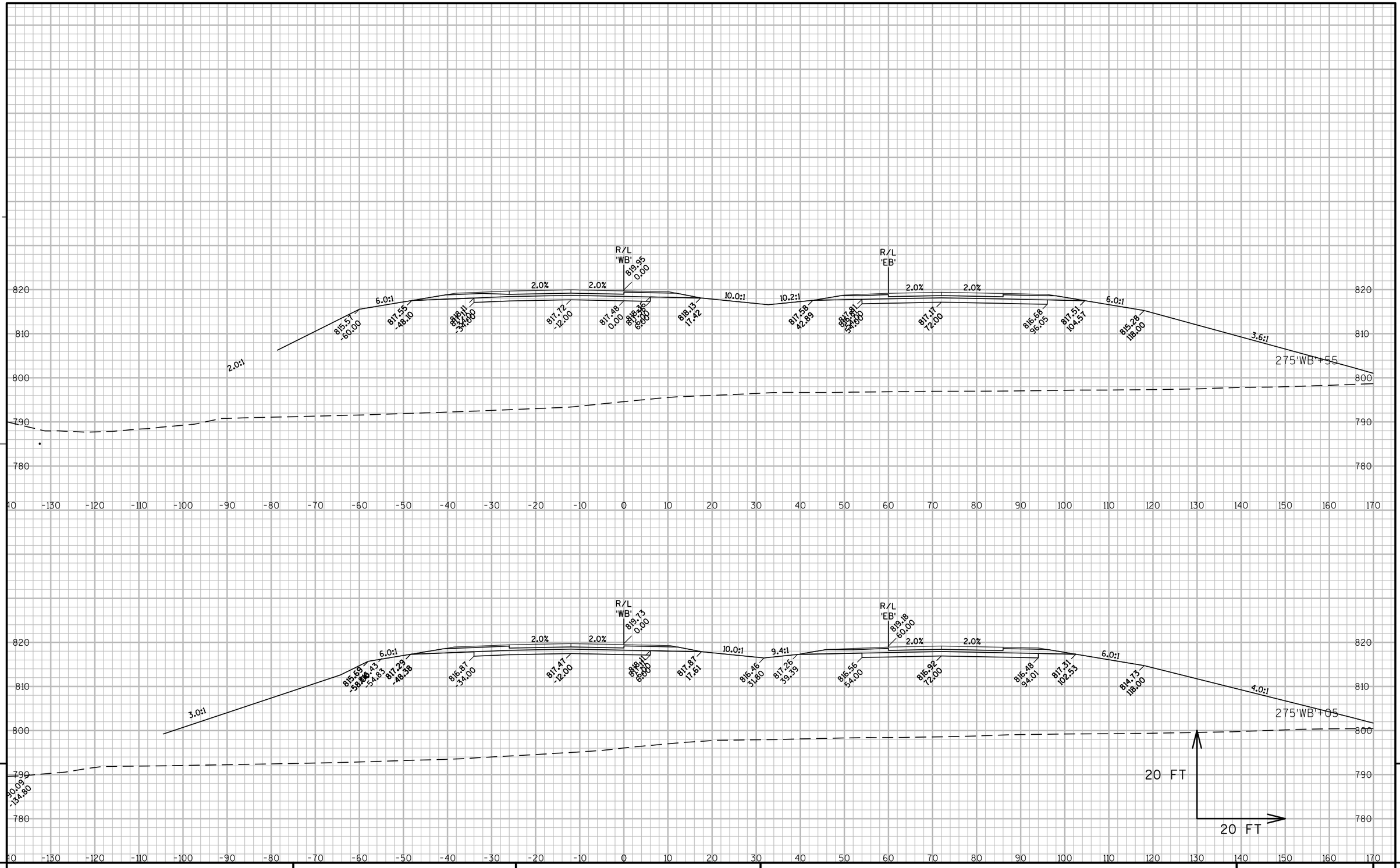
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 533	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_01_STH15.DWG
LAYOUT NAME - 090313_XS

PLOT DATE : 12/15/2020 9:26 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

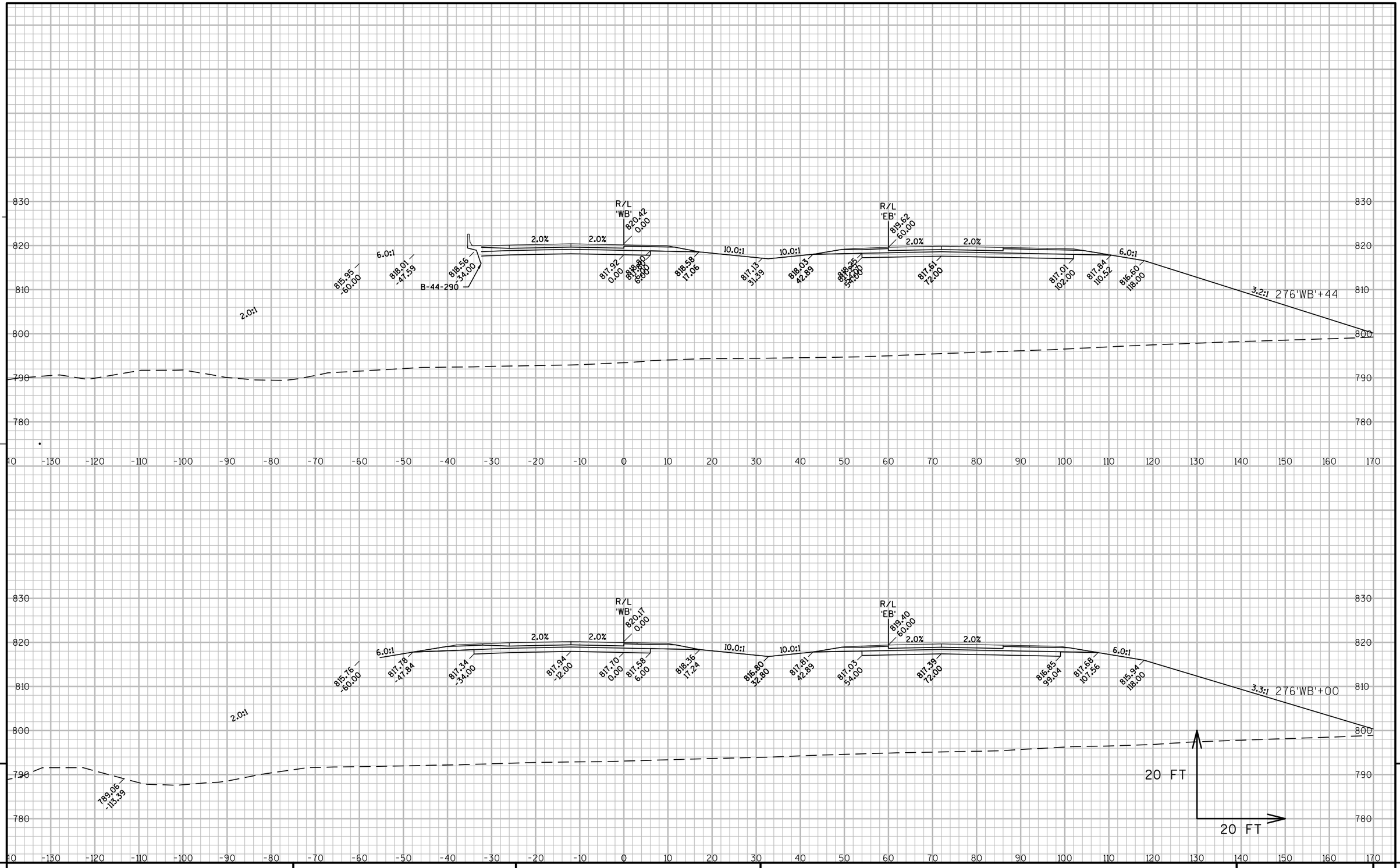


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 534 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_01_STH15.DWG
LAYOUT NAME - 090314_XS

PLOT DATE : 12/15/2020 9:26 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

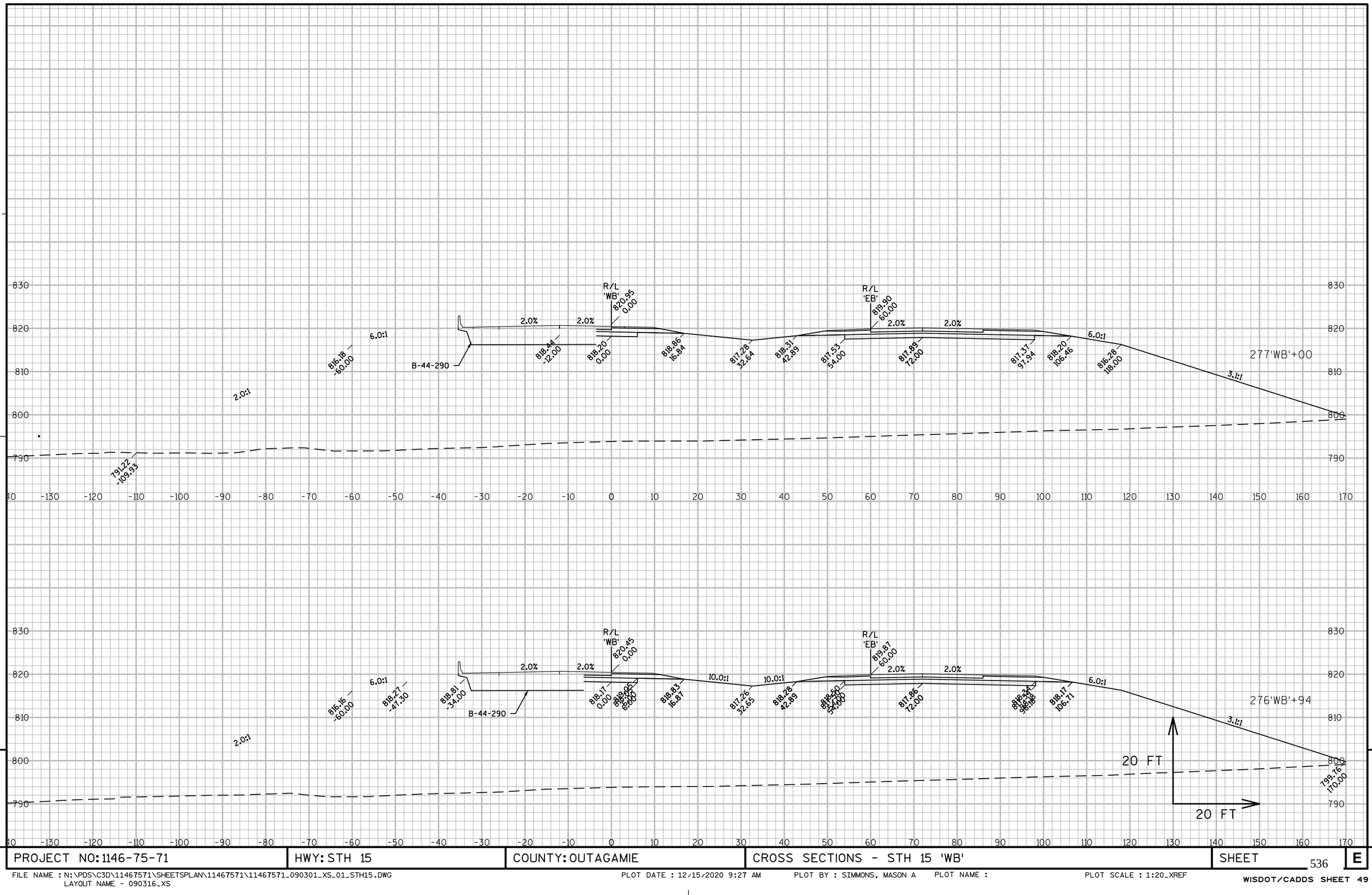


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 535	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_01_STH15.DWG
LAYOUT NAME - 090315_XS

PLOT DATE : 12/15/2020 9:27 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

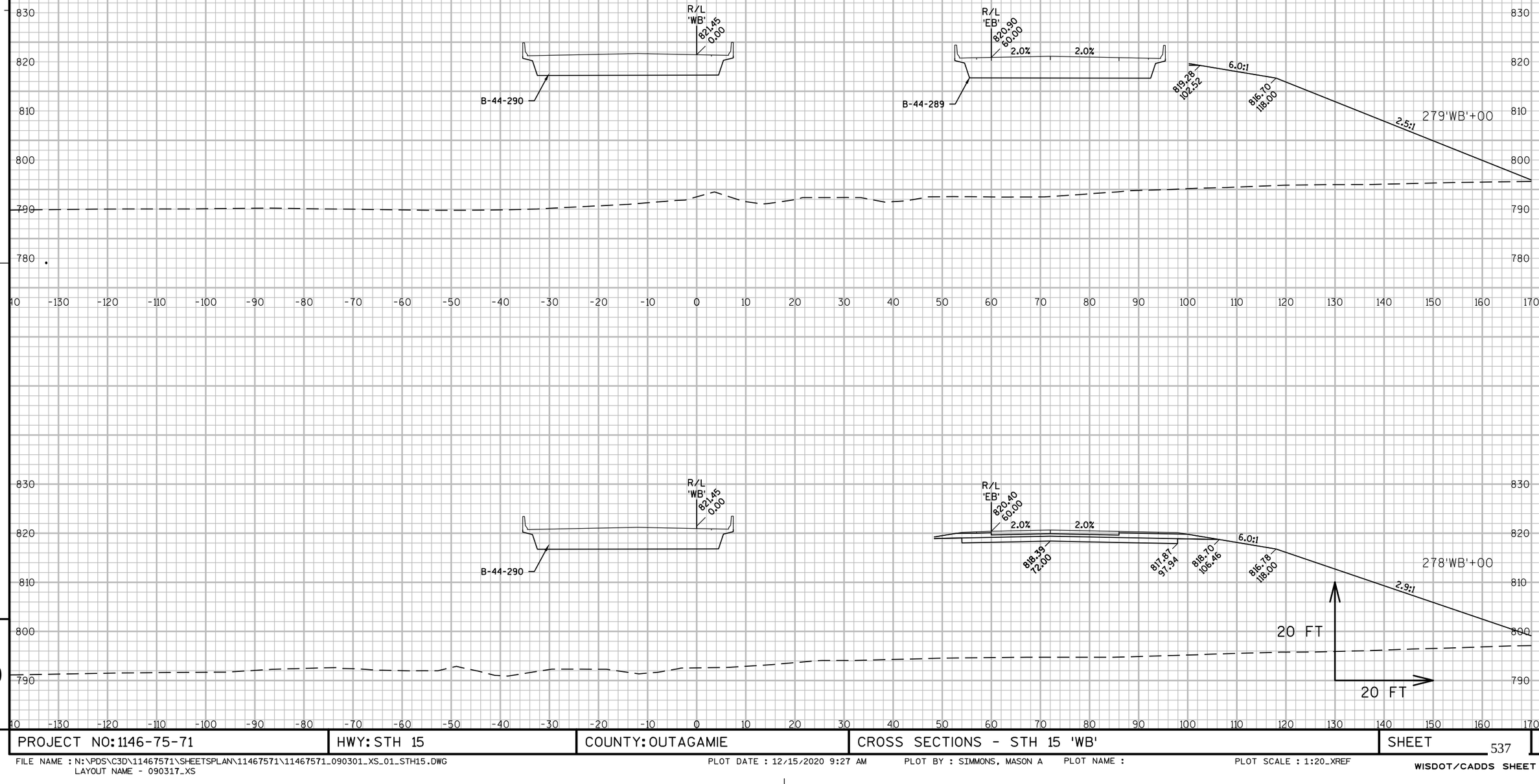


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 536	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_01_STH15.DWG
LAYOUT NAME - 090316_XS

PLOT DATE : 12/15/2020 9:27 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

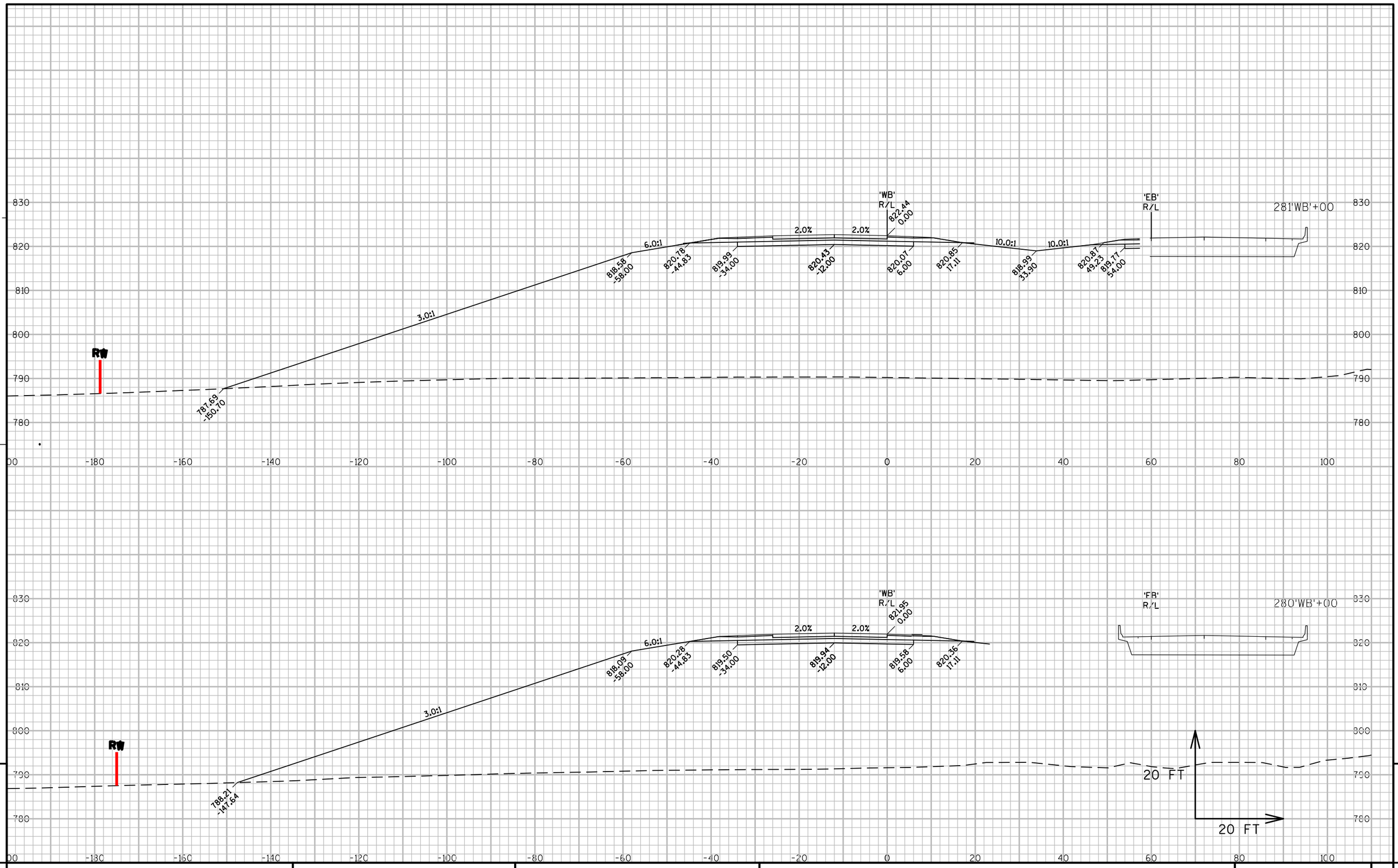


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 537	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_01_STH15.DWG
LAYOUT NAME - 090317_XS

PLOT DATE : 12/15/2020 9:27 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

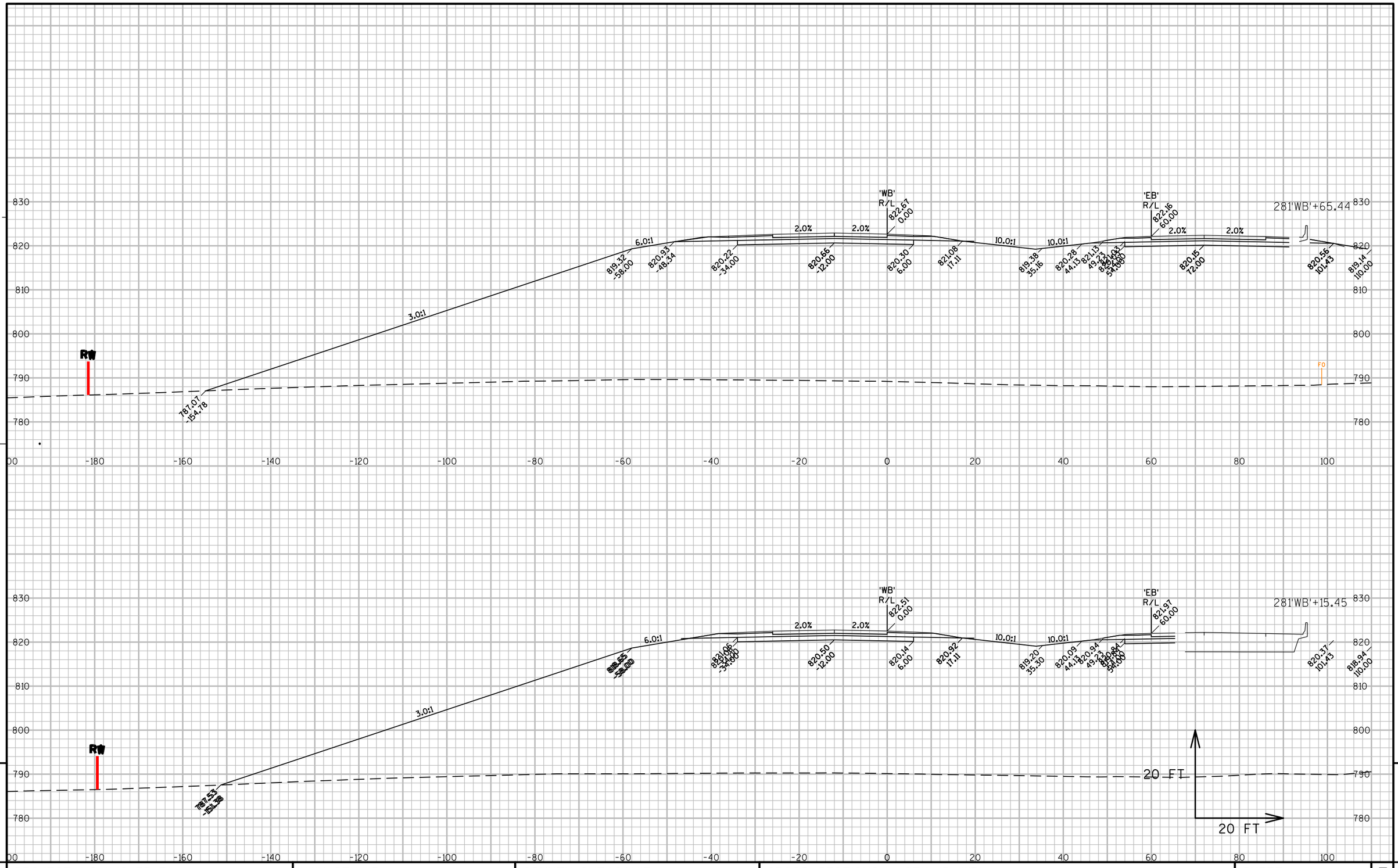
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 538	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090318_XS

PLOT DATE : 12/15/2020 9:37 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

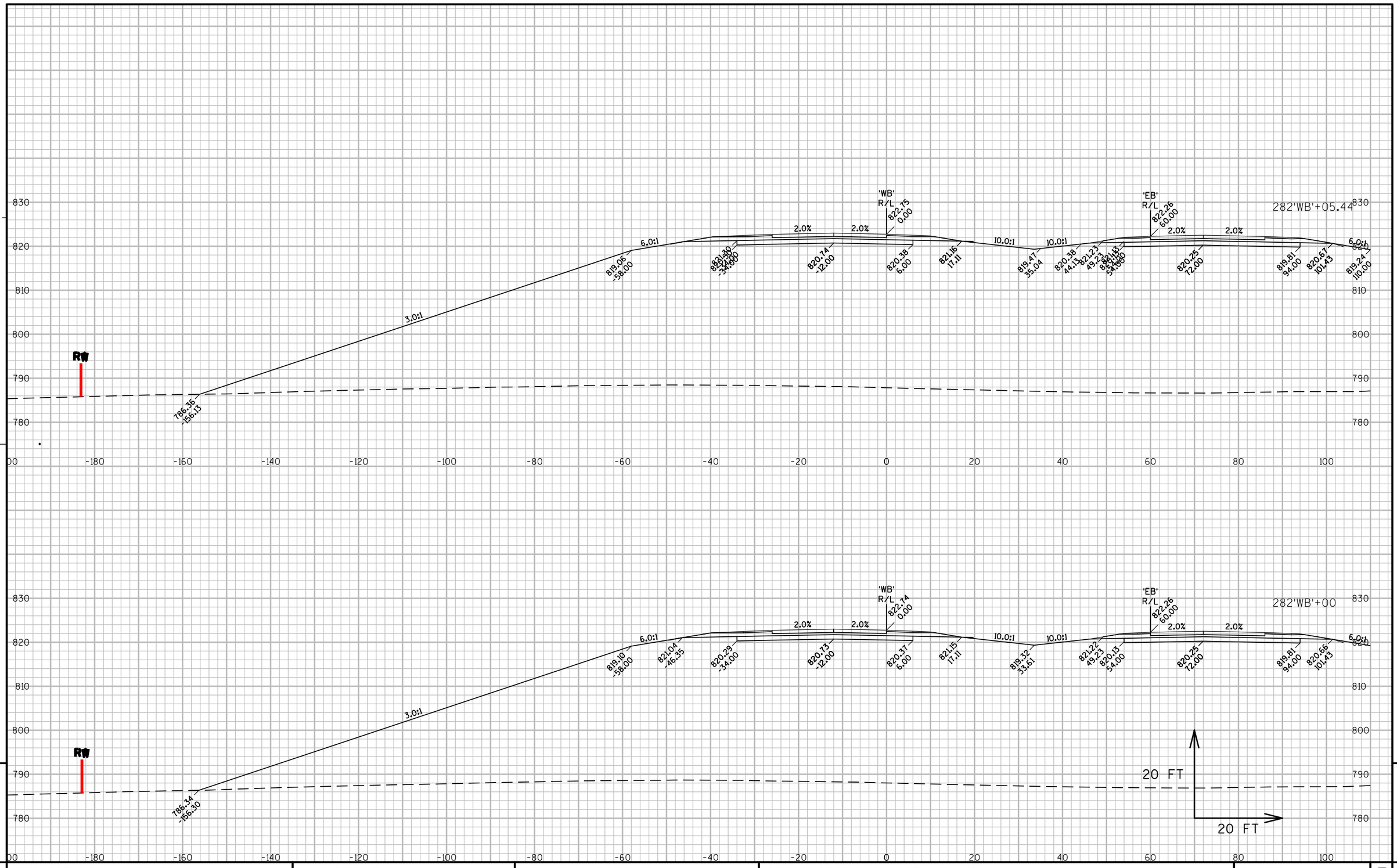


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 539	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090319_XS

PLOT DATE : 12/15/2020 9:37 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

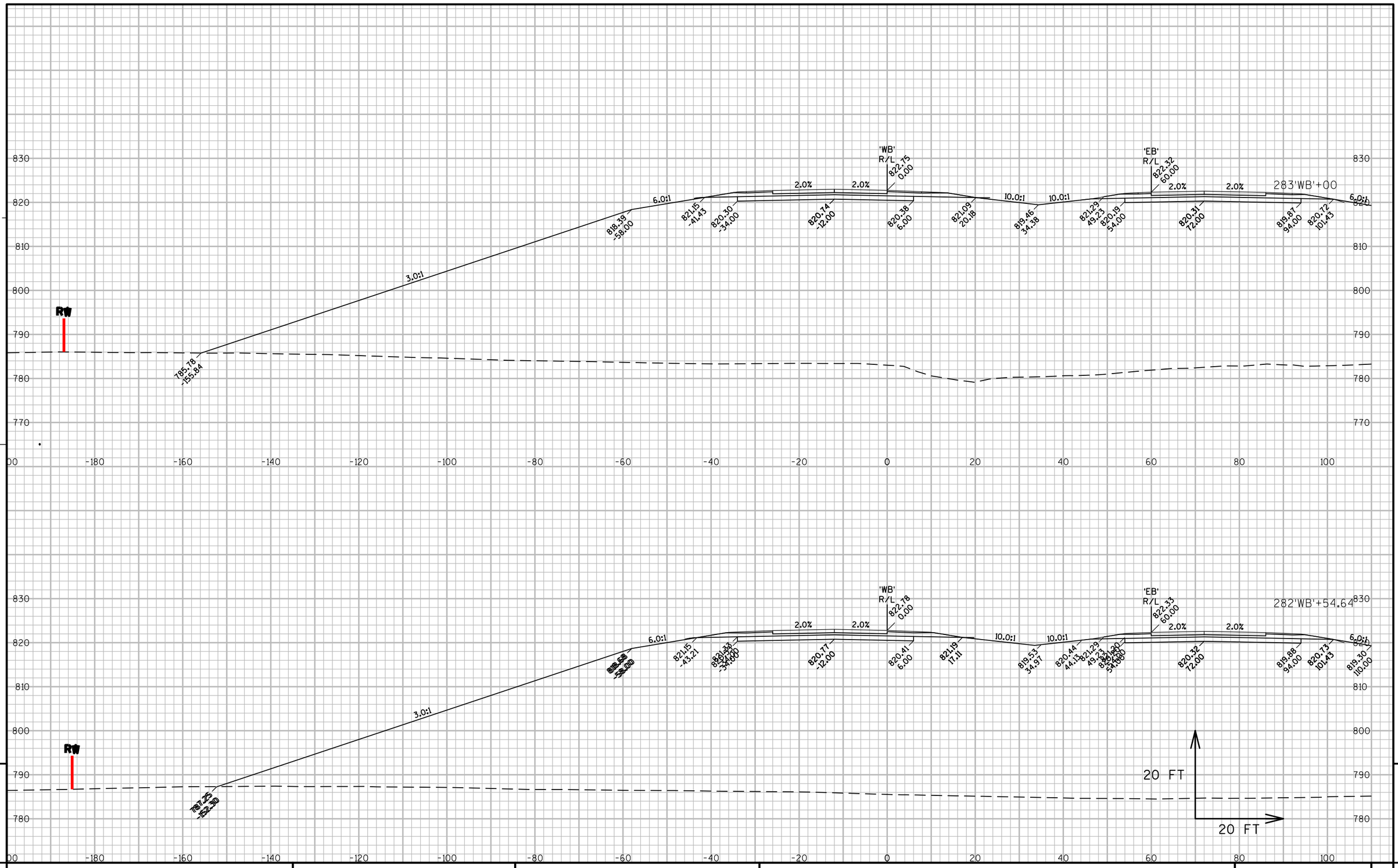
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 540	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090320_XS

PLOT DATE : 12/15/2020 9:38 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



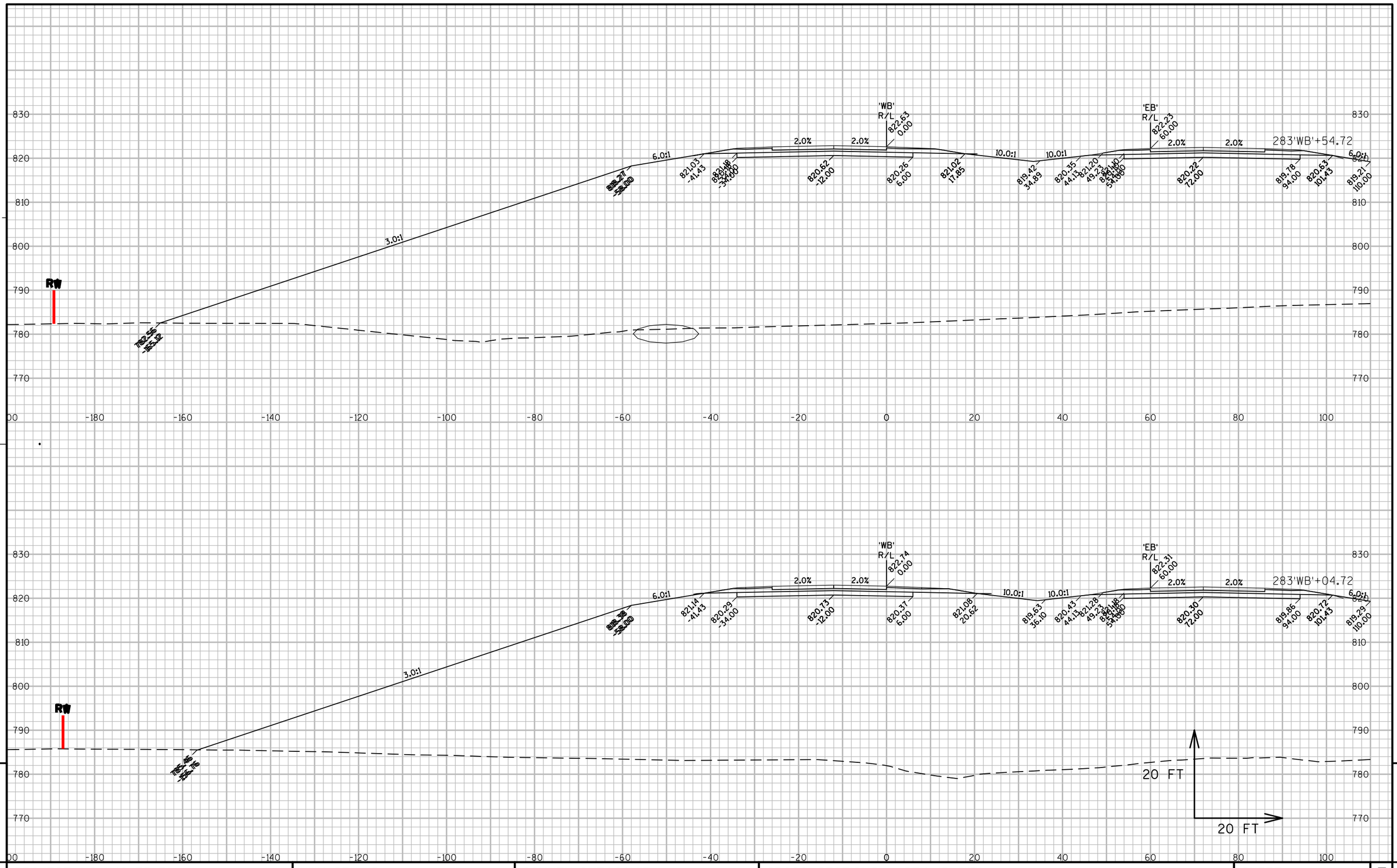
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 541	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090321_XS

PLOT DATE : 12/15/2020 9:38 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

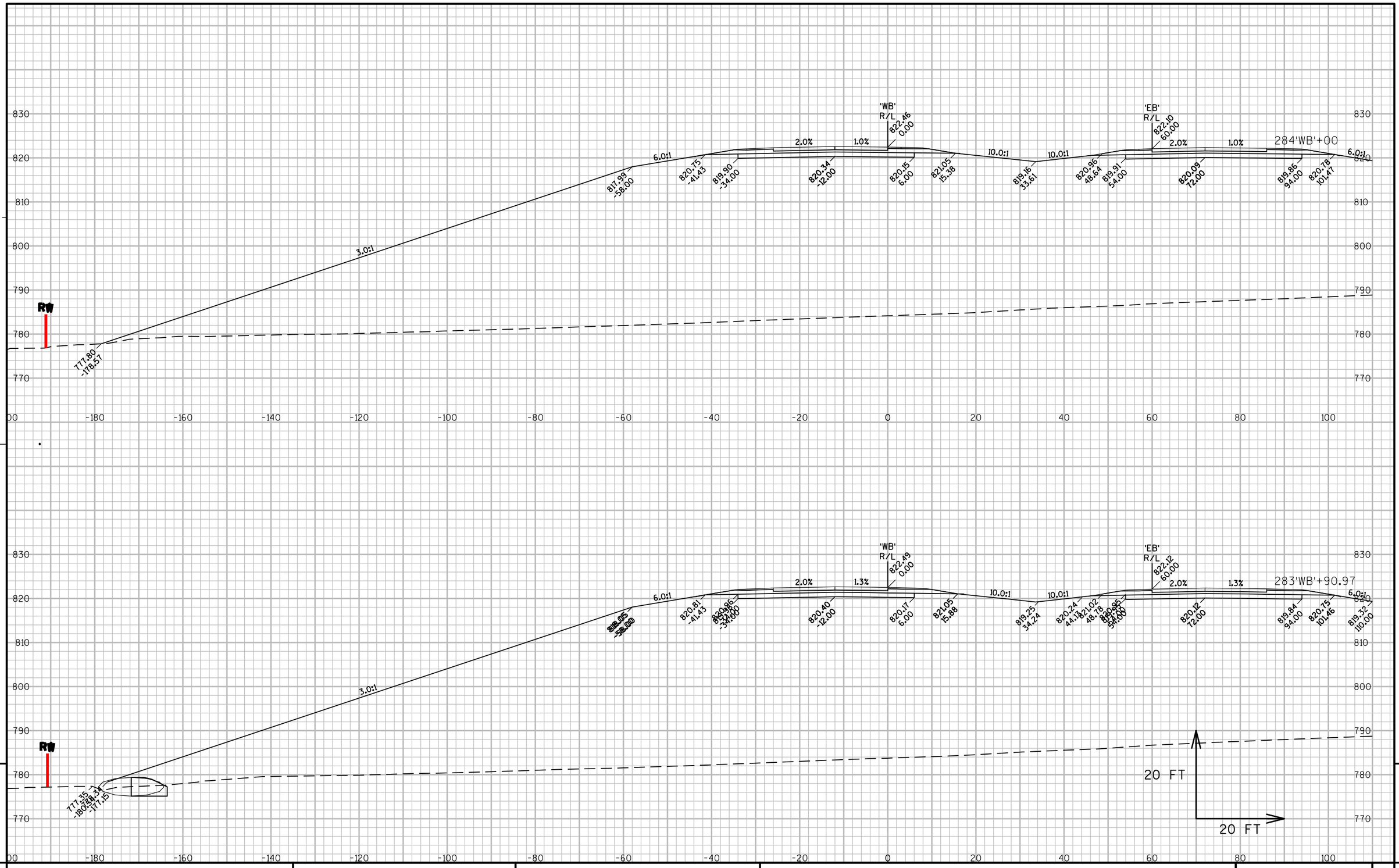


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 542	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090322_XS

PLOT DATE : 12/15/2020 9:38 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

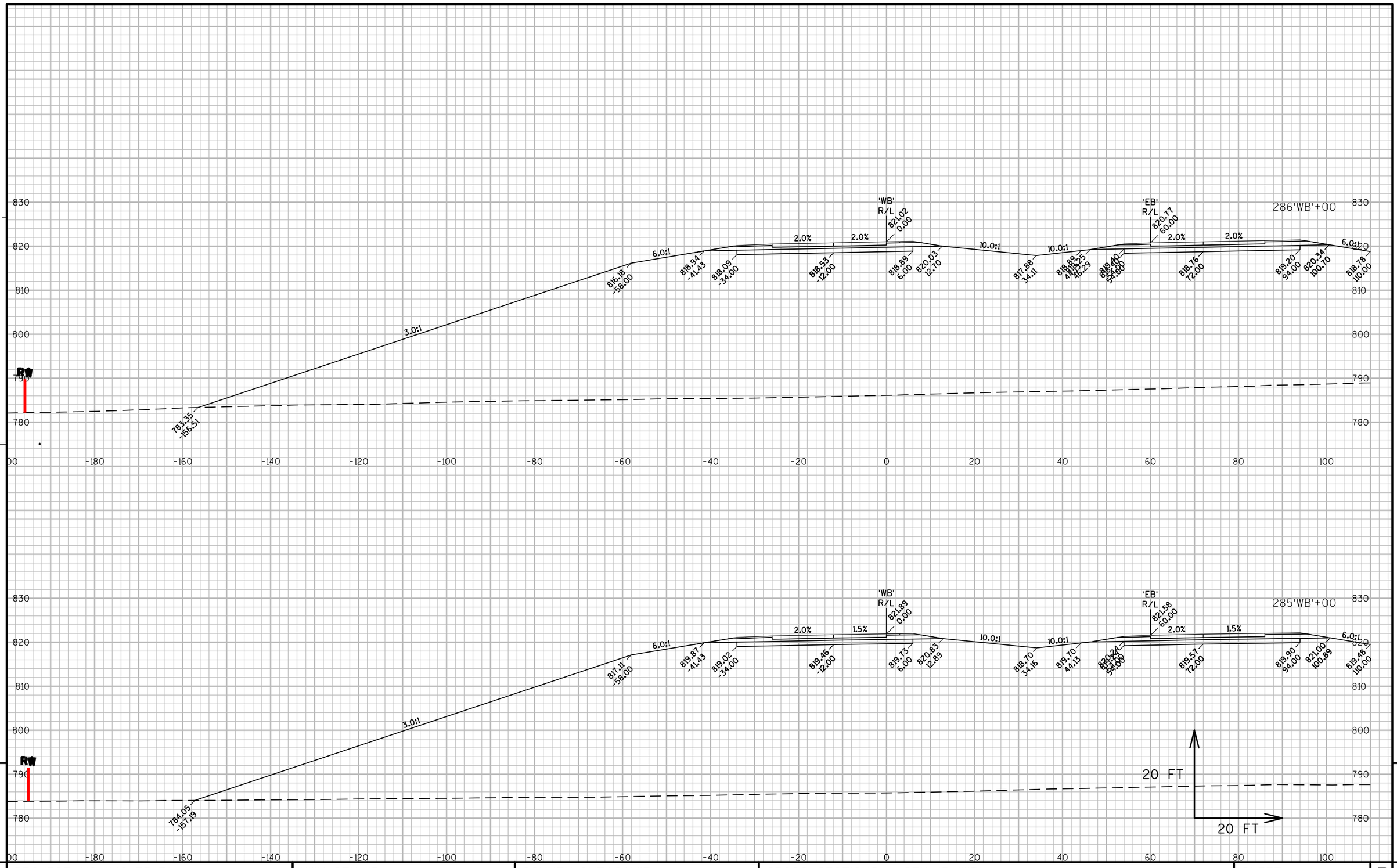


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 543	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090323_XS

PLOT DATE : 12/15/2020 9:38 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

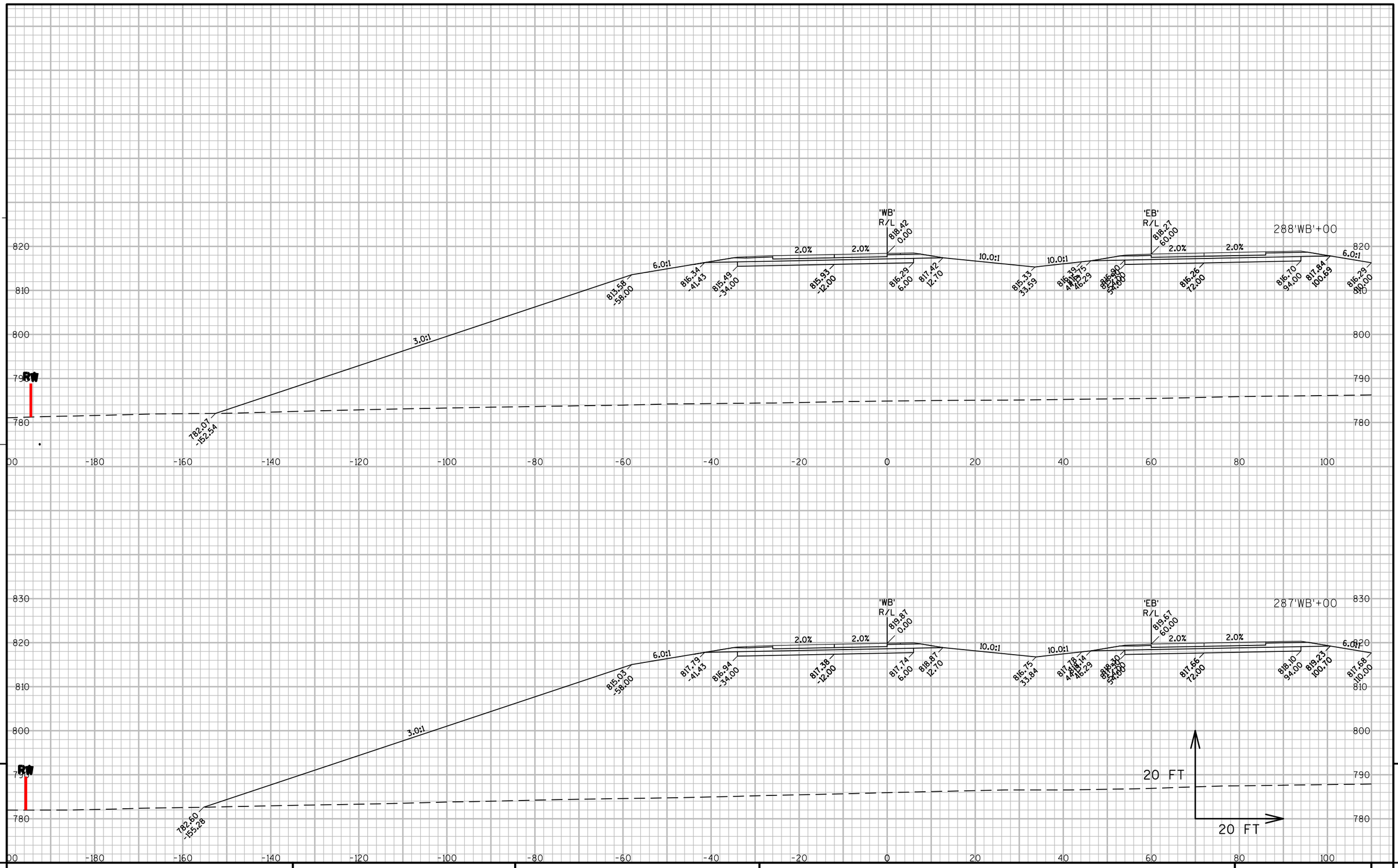


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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 544	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090324_XS

PLOT DATE : 12/15/2020 9:38 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

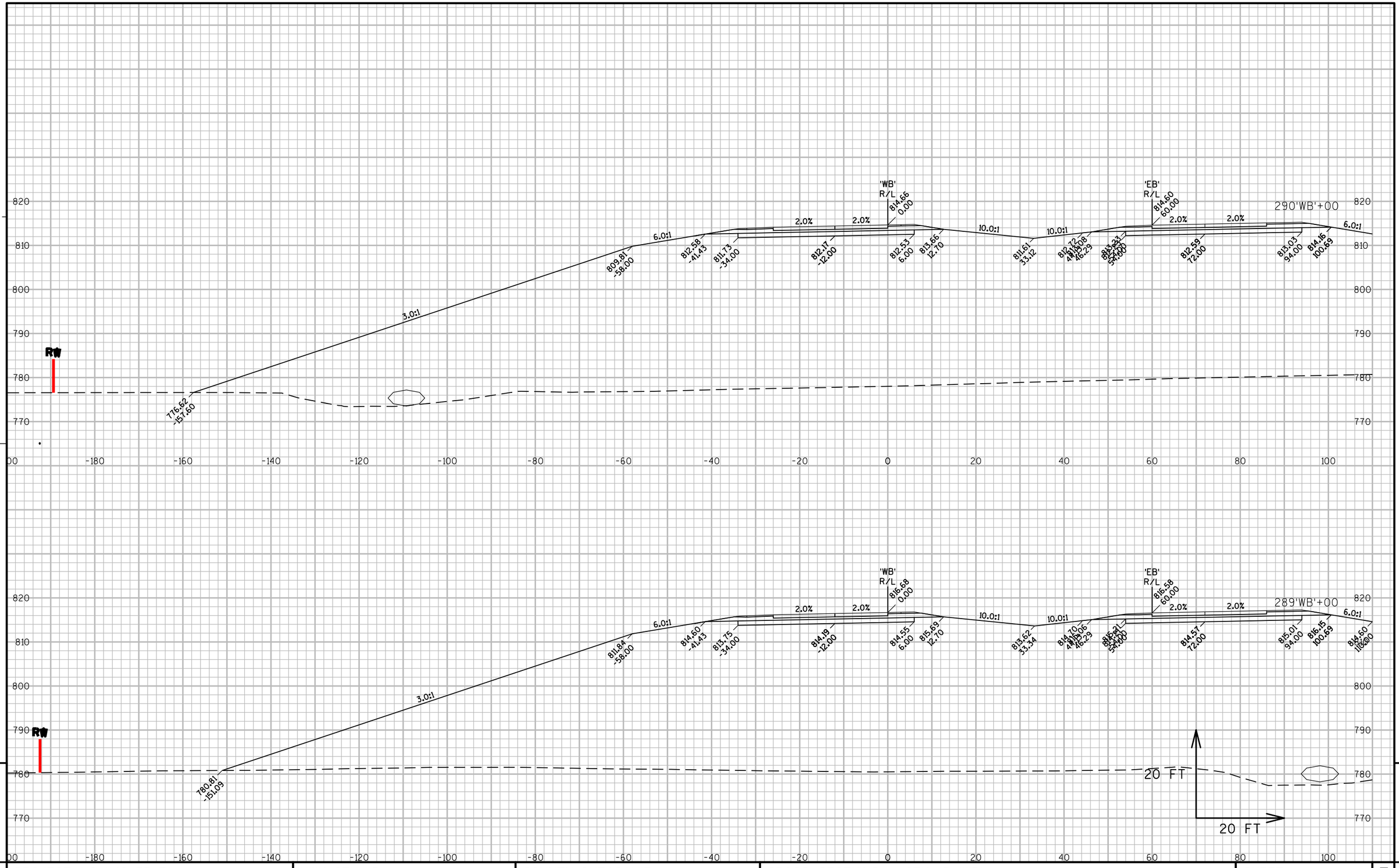


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 545	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090325_XS

PLOT DATE : 12/15/2020 9:38 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

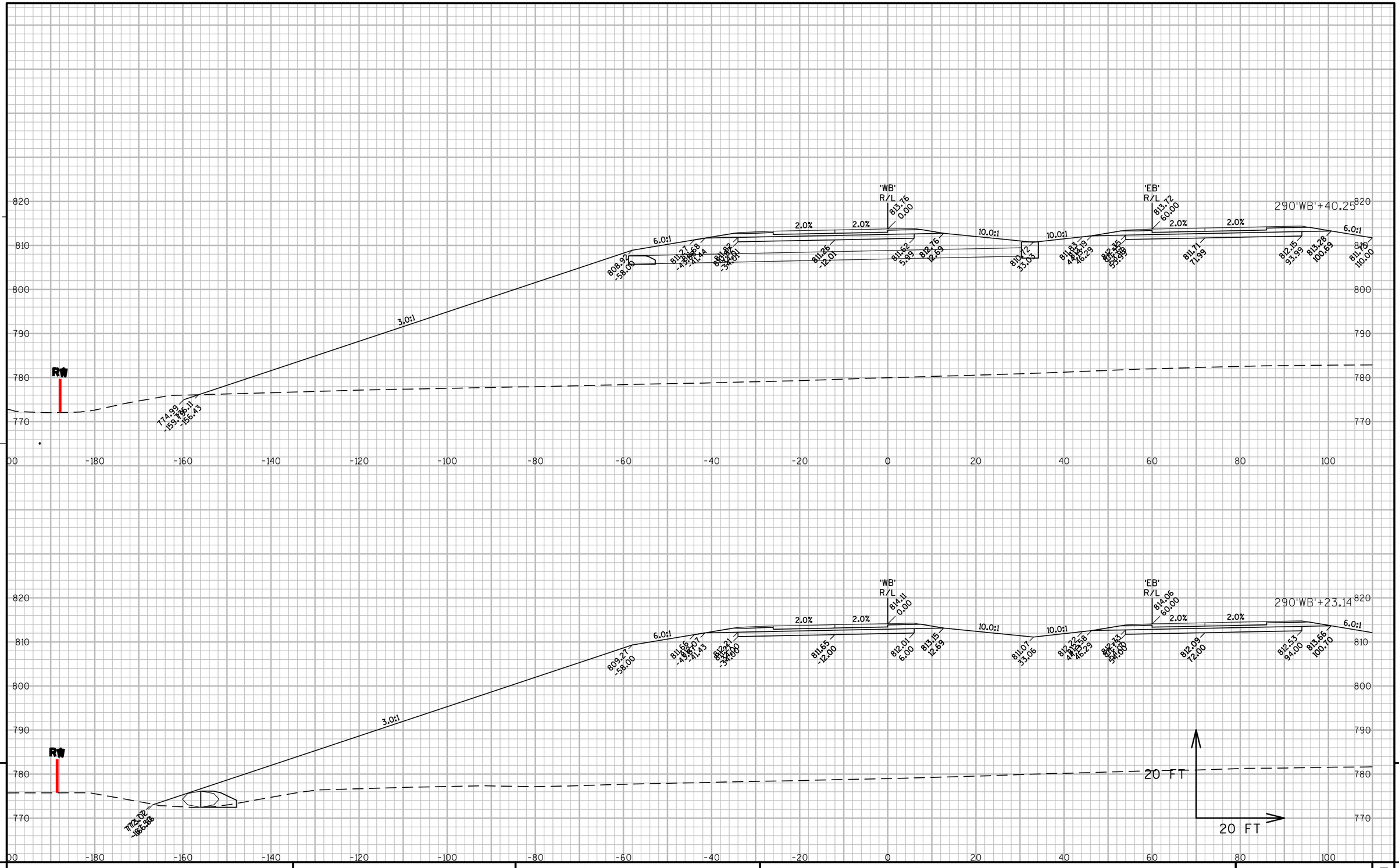


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 546 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090326_XS

PLOT DATE : 12/15/2020 9:38 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

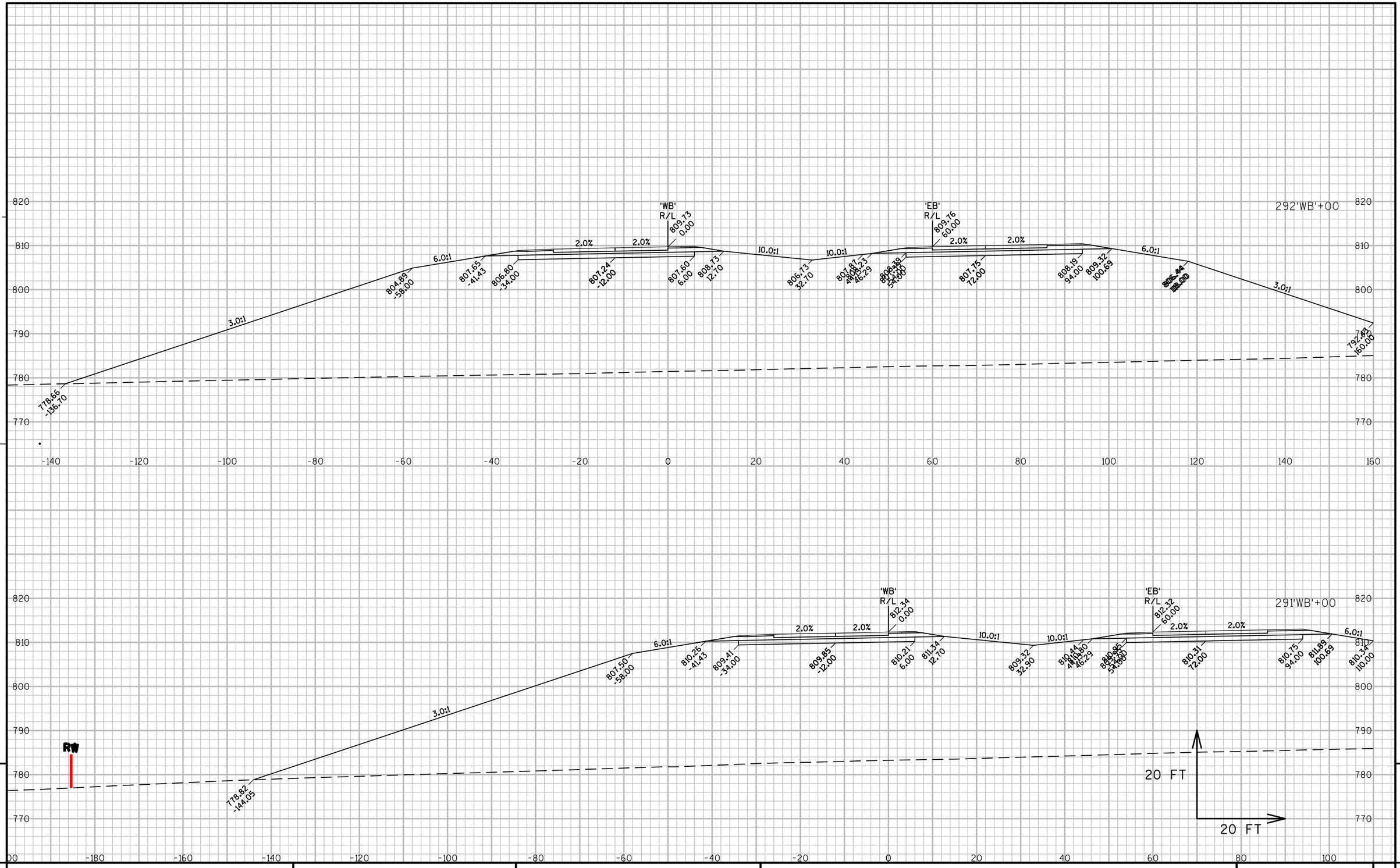


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 547	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090327_XS

PLOT DATE : 12/15/2020 9:38 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

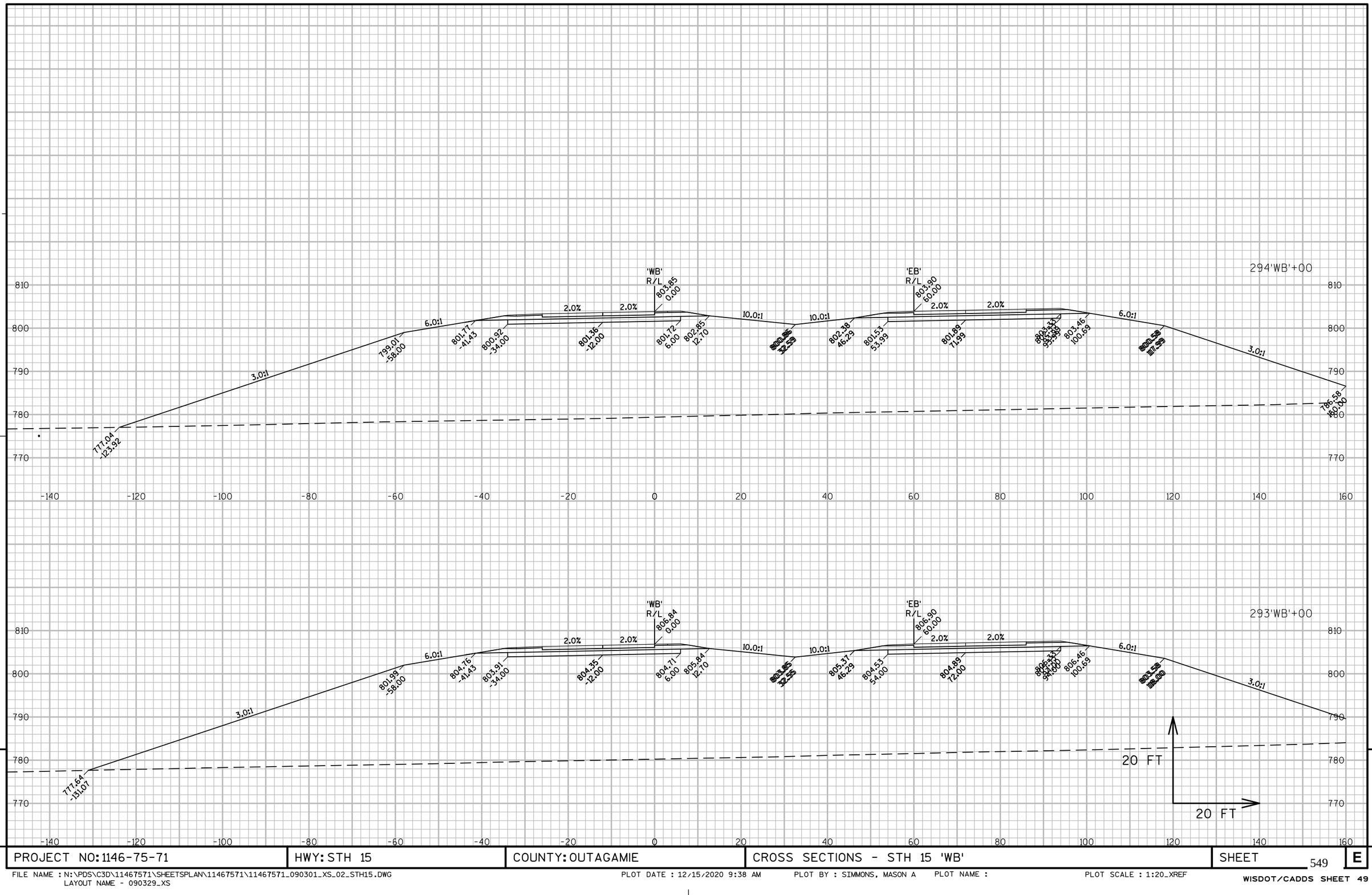


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 548	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090328_XS

PLOT DATE : 12/15/2020 9:38 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

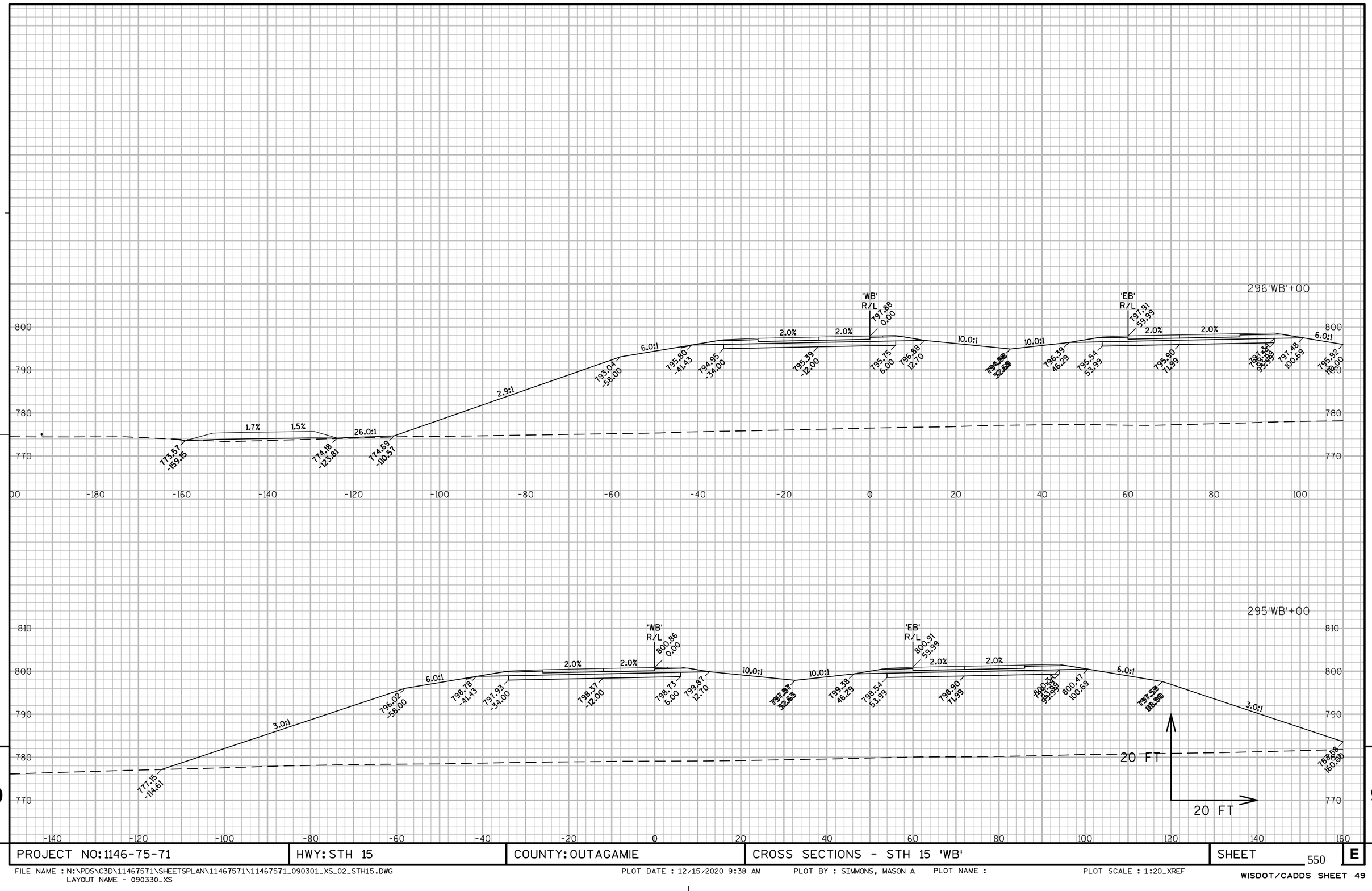


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 549	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090329_XS

PLOT DATE : 12/15/2020 9:38 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



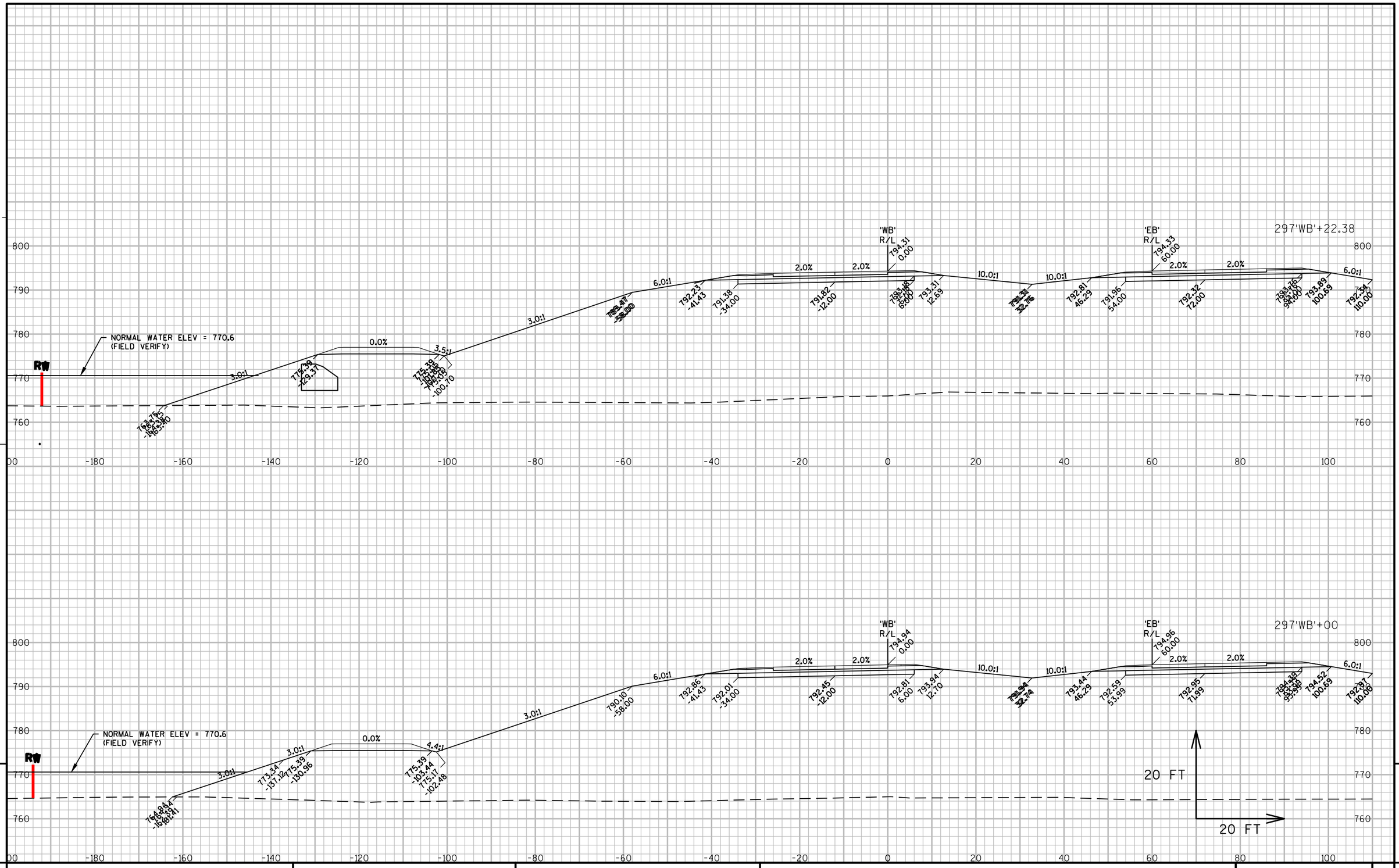
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 550	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090330_XS

PLOT DATE : 12/15/2020 9:38 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



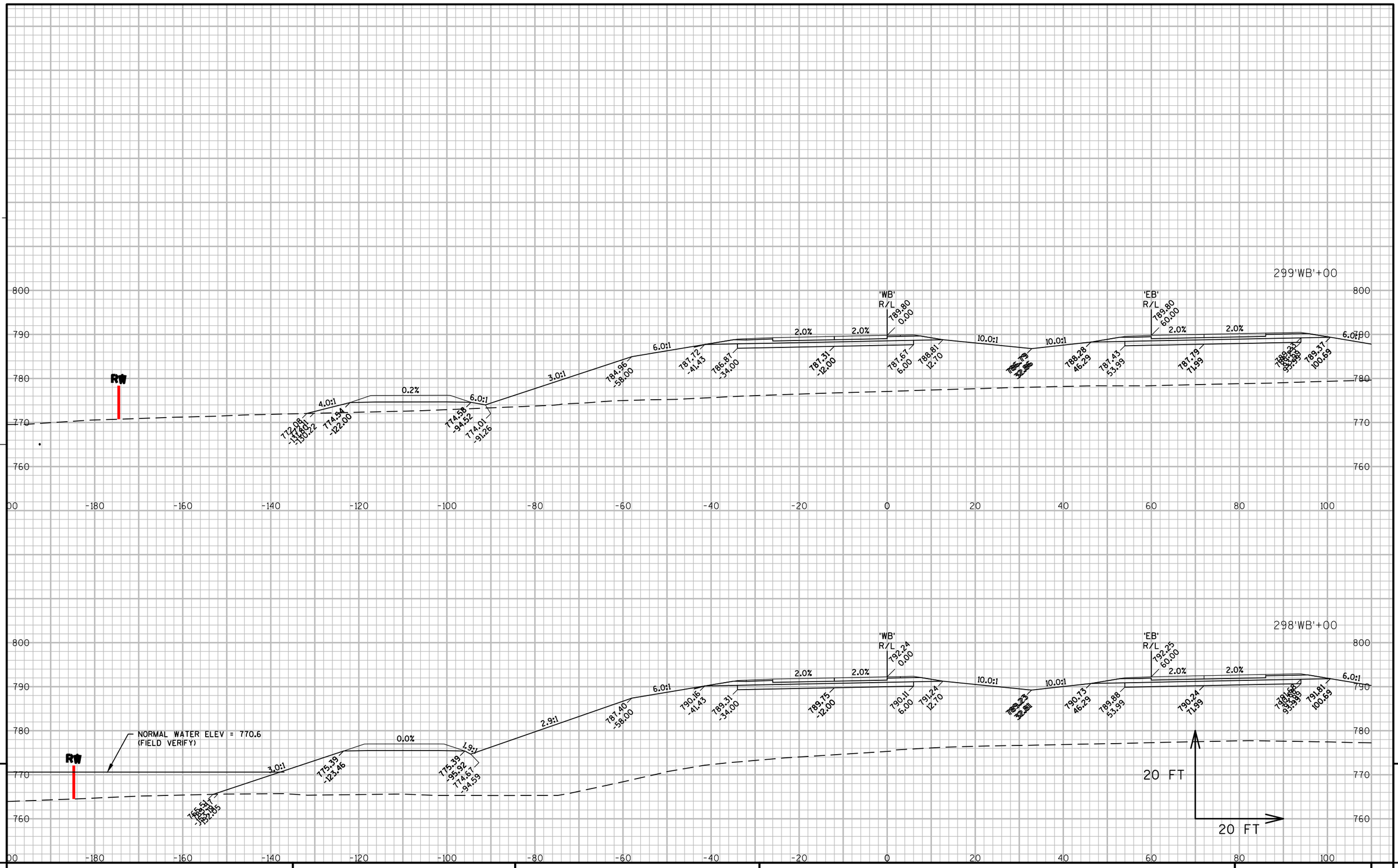
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 551	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090331_XS

PLOT DATE : 12/15/2020 9:38 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

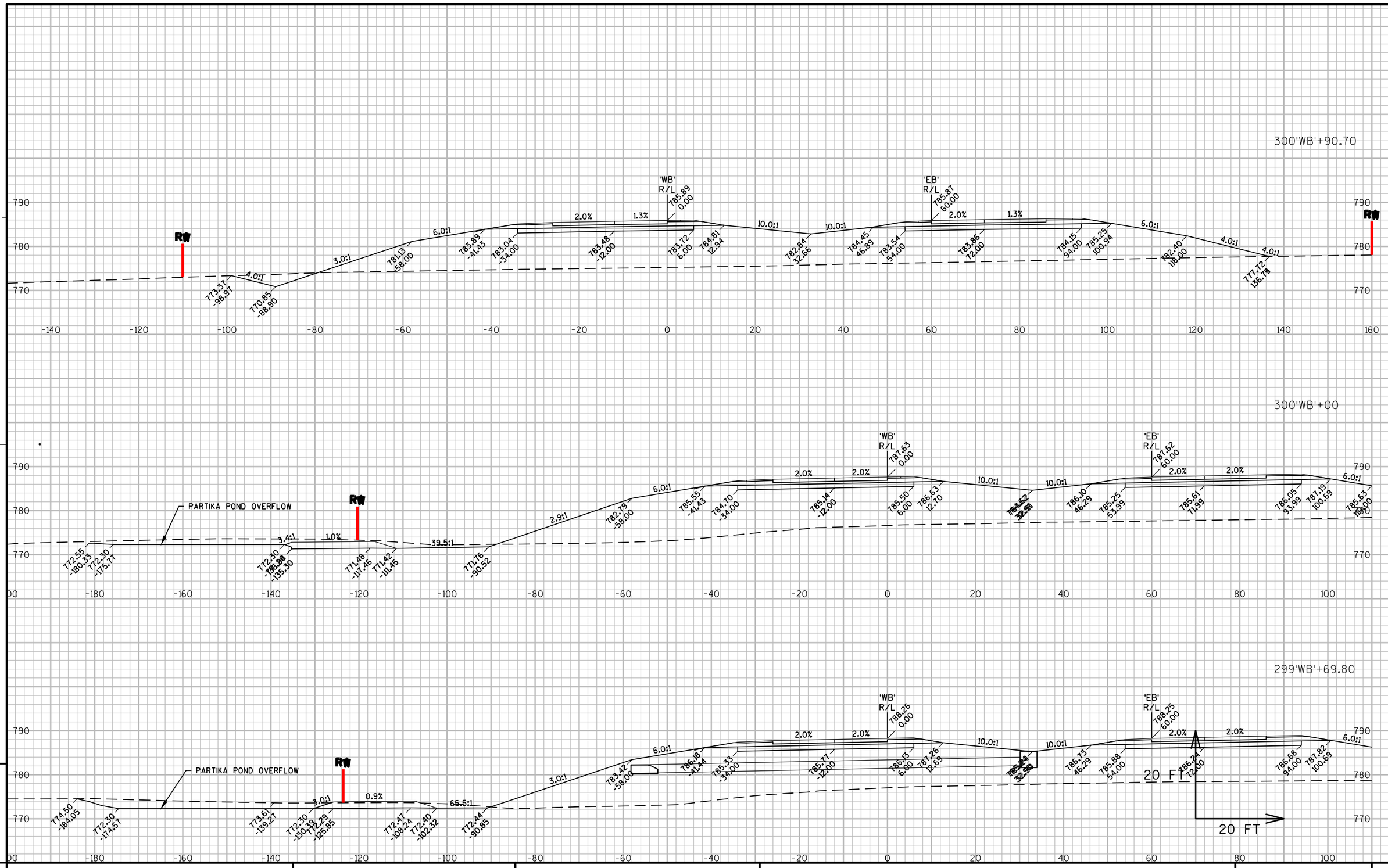


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 552	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090332_XS

PLOT DATE : 12/15/2020 9:38 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

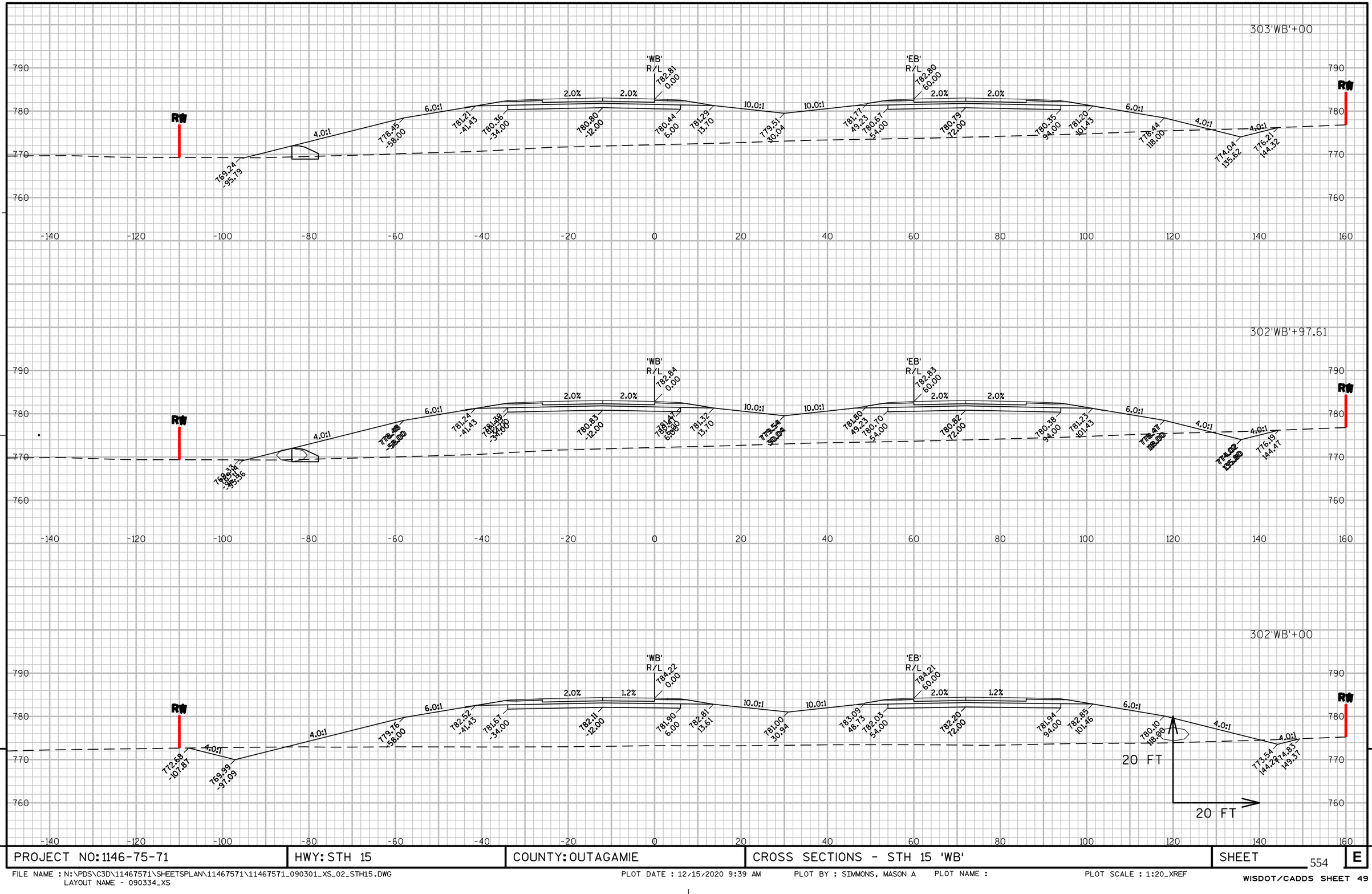


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 553	E

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LAYOUT NAME - 090333_XS

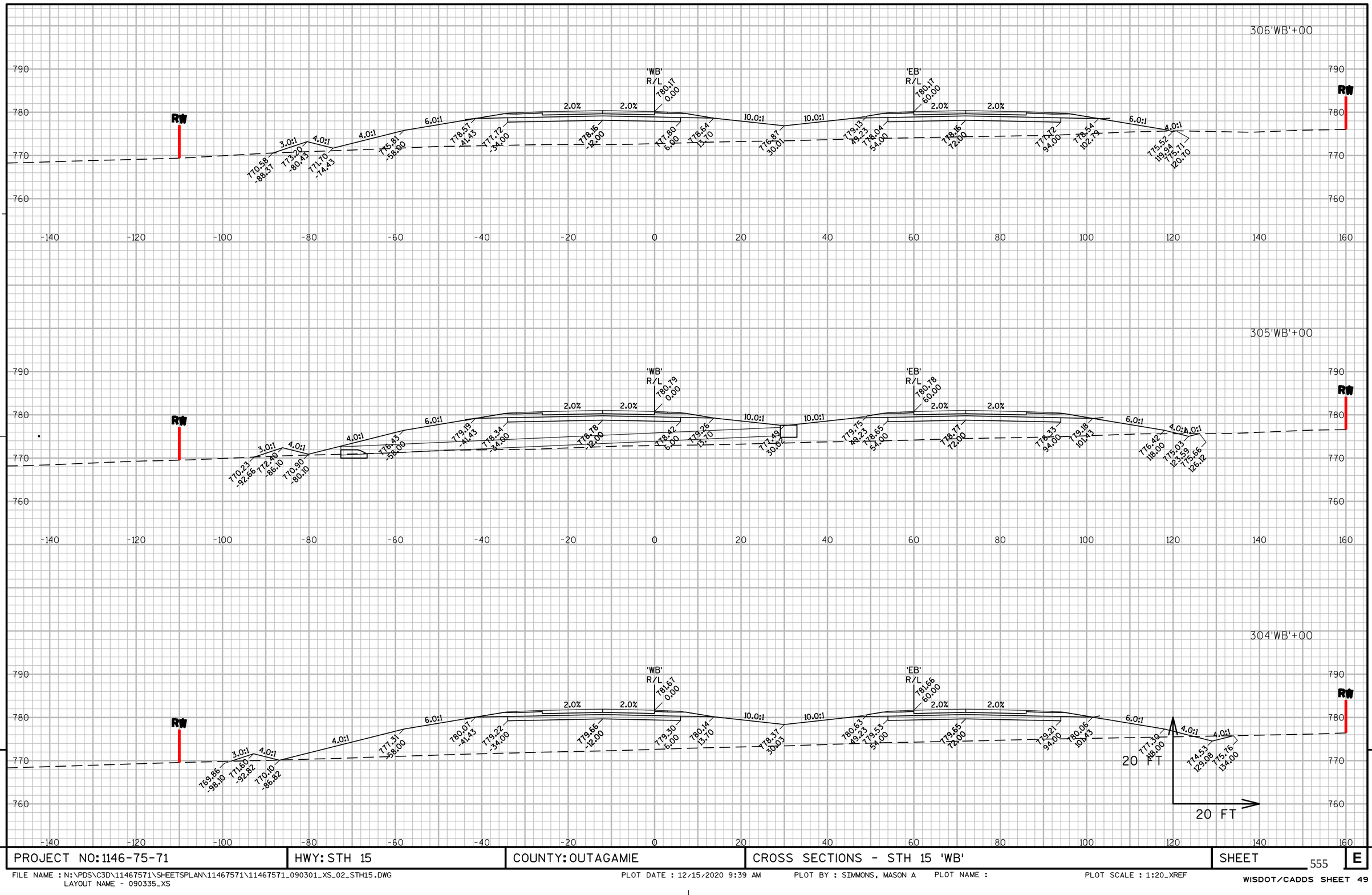
PLOT DATE : 12/15/2020 9:38 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 554 E



9

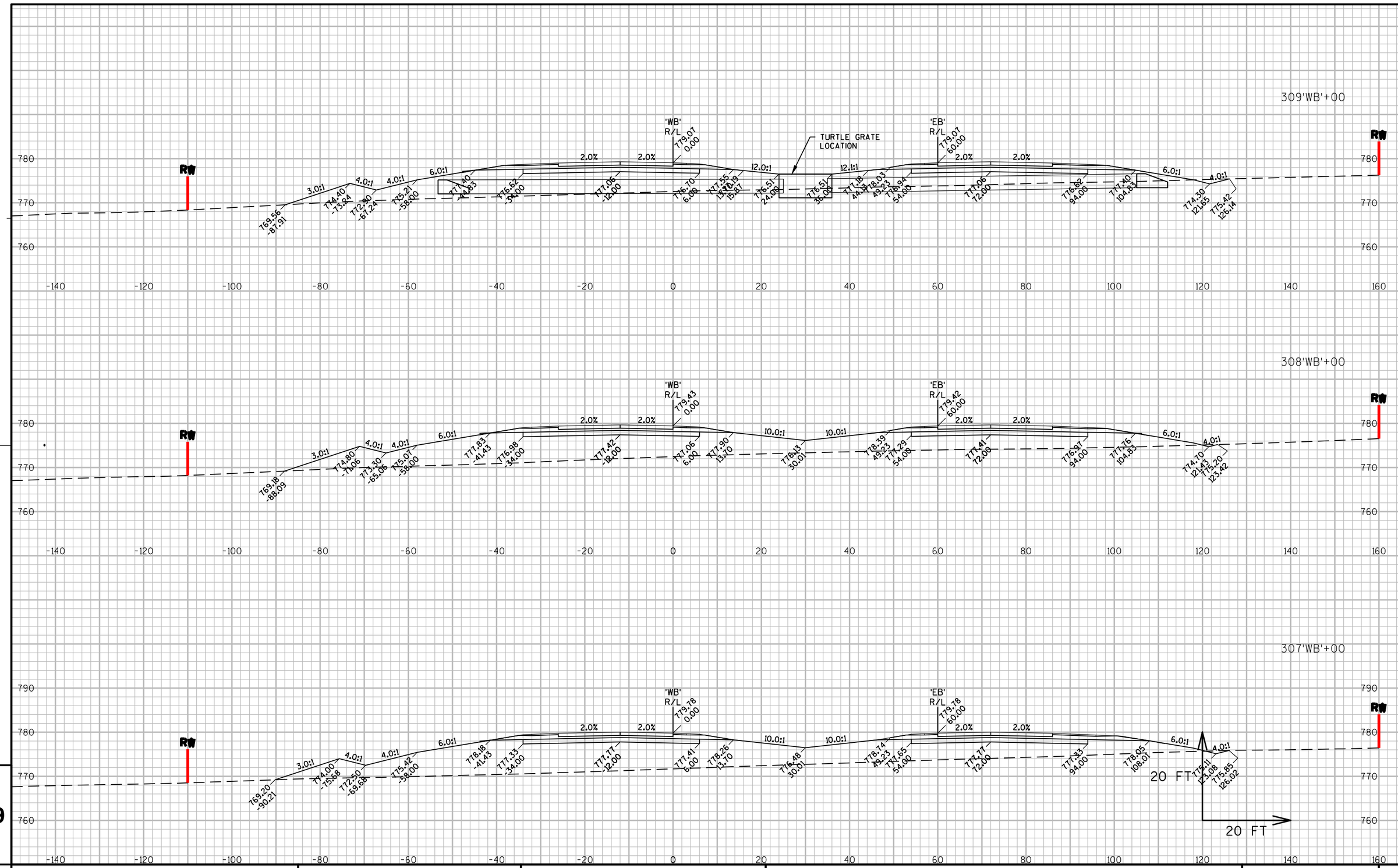
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 555	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090335_XS

PLOT DATE : 12/15/2020 9:39 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

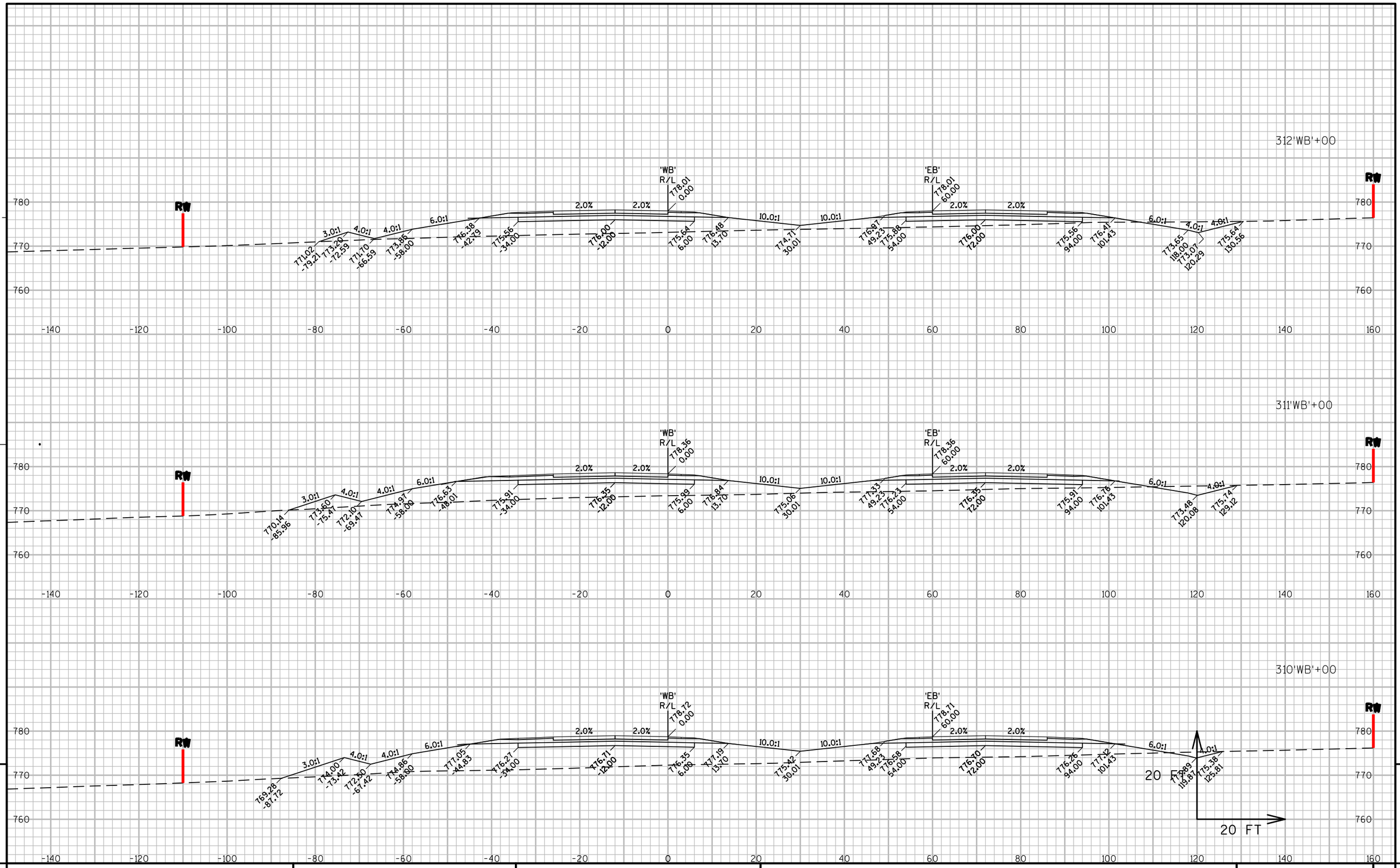


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 556	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090336_XS

PLOT DATE : 12/15/2020 9:39 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

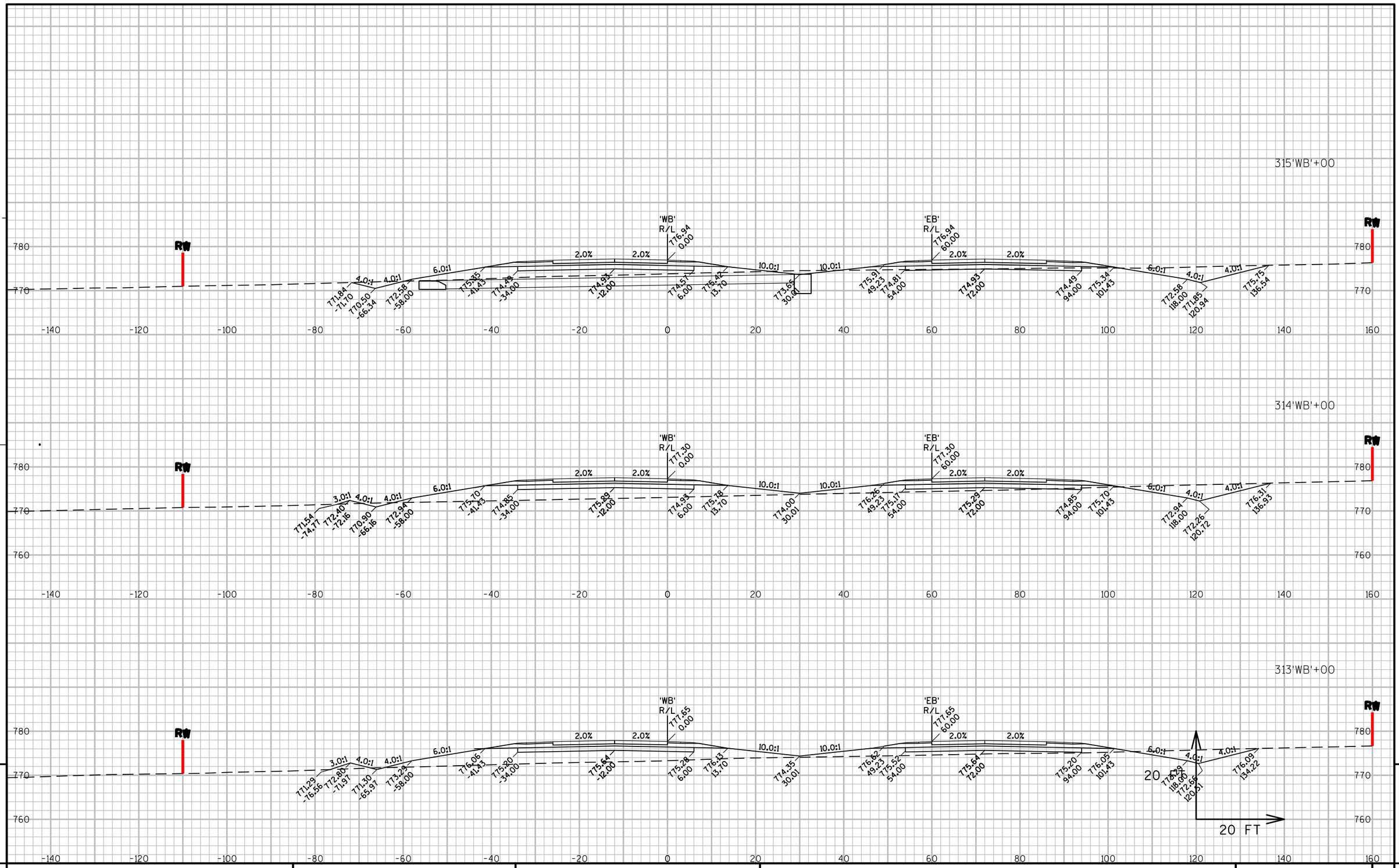


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 557	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090337_XS

PLOT DATE : 12/15/2020 9:39 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



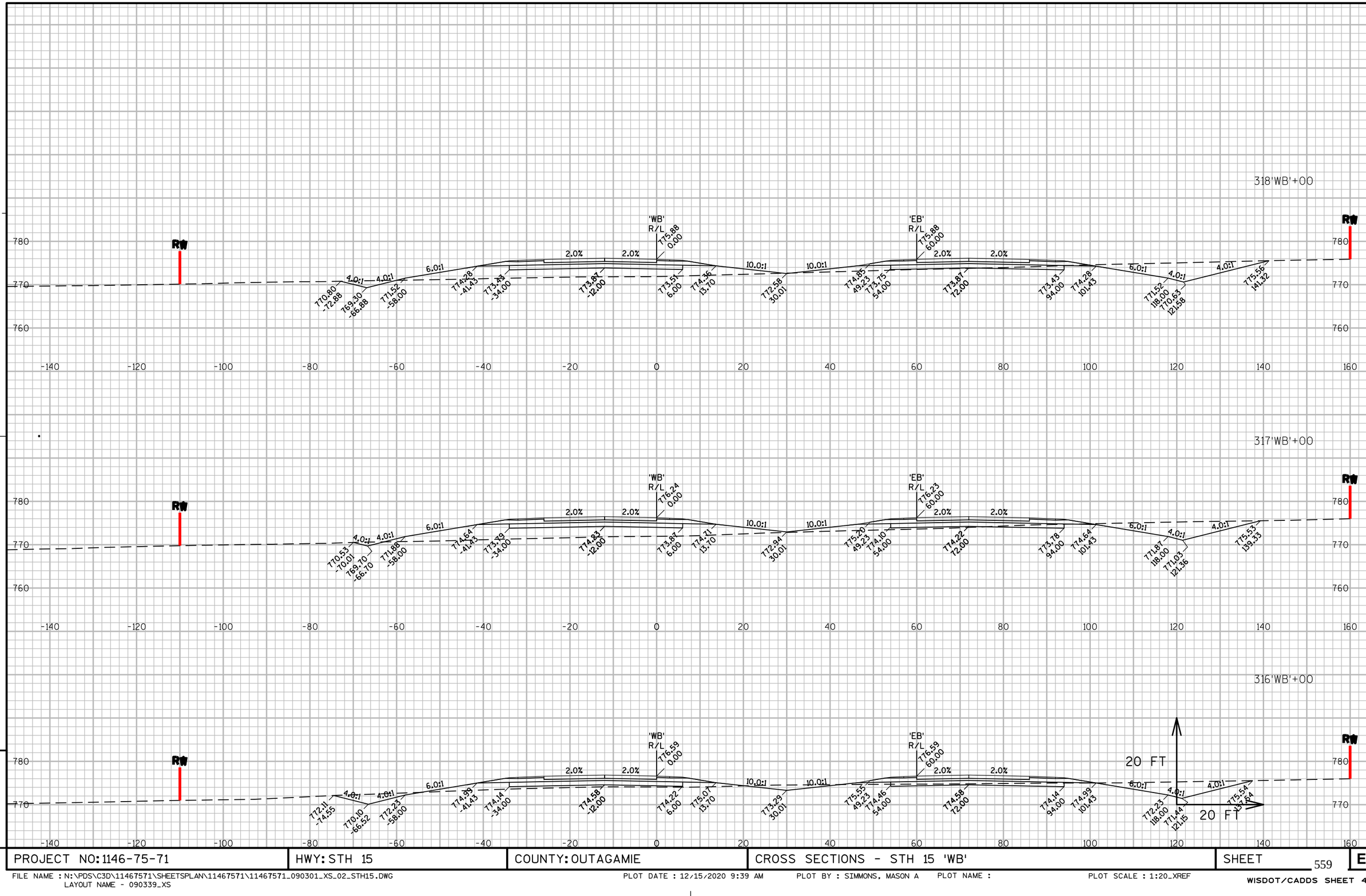
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 558	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090338_XS

PLOT DATE : 12/15/2020 9:39 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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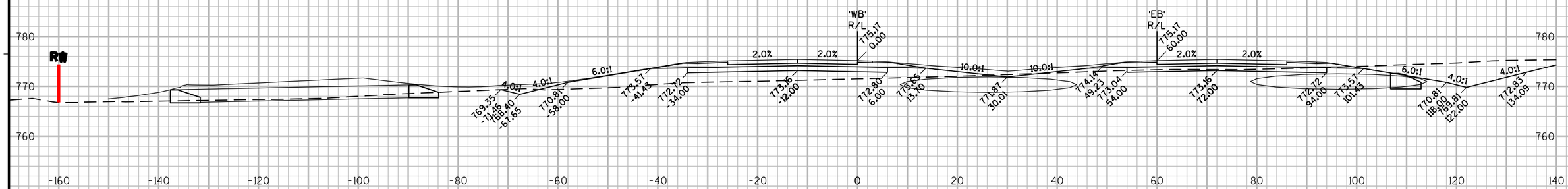
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 559	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090339_XS

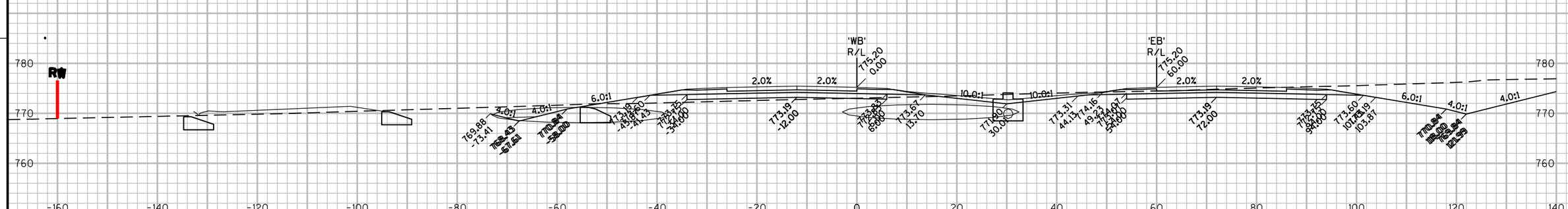
PLOT DATE : 12/15/2020 9:39 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

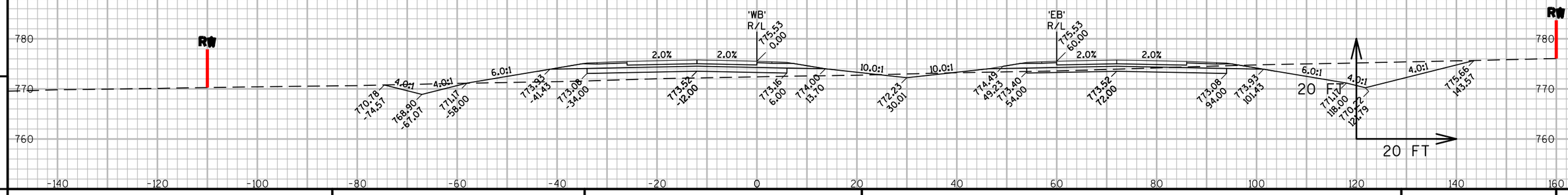
320'WB'+00



319'WB'+93



319'WB'+00



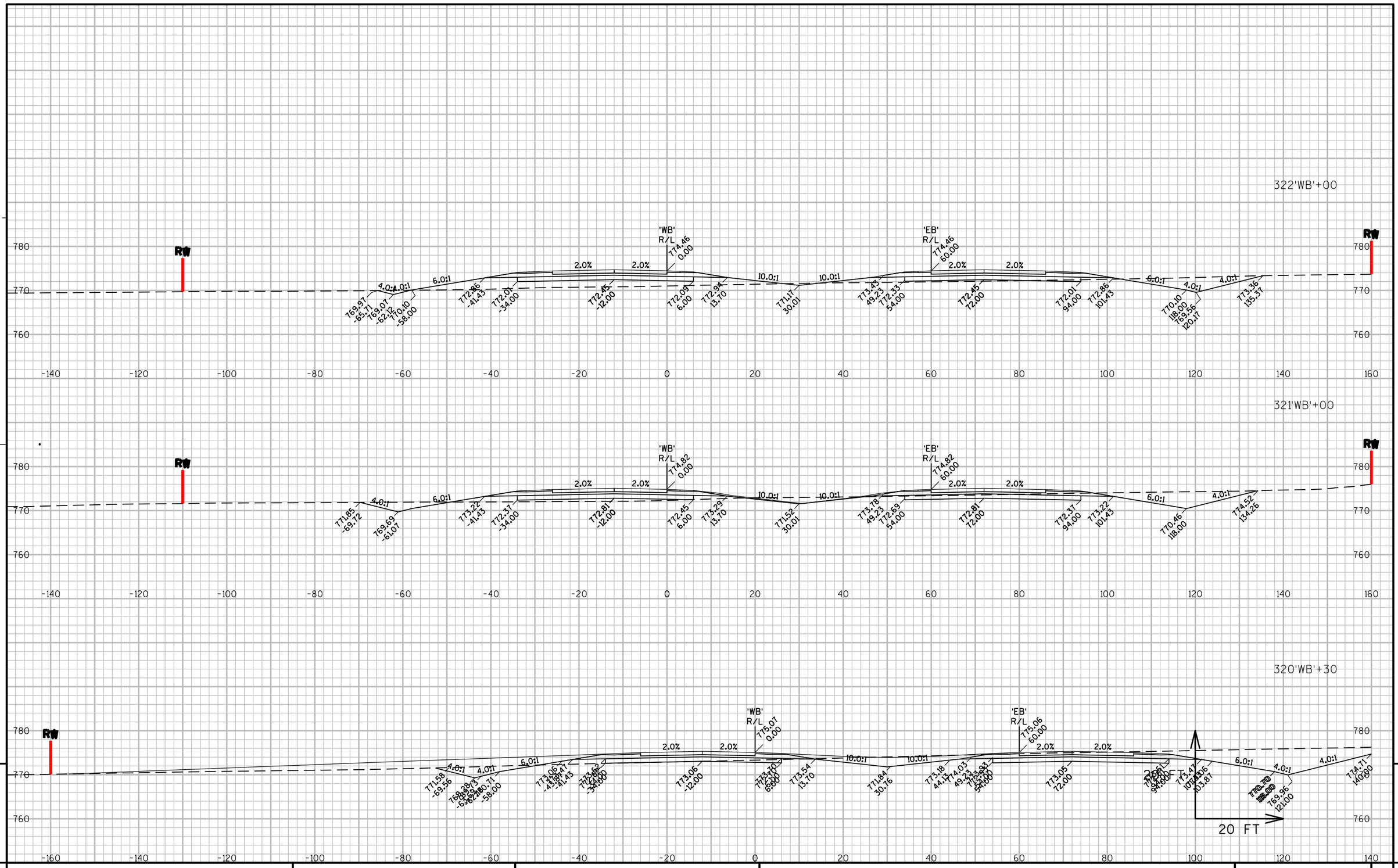
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 560	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090340_XS

PLOT DATE : 12/15/2020 9:39 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



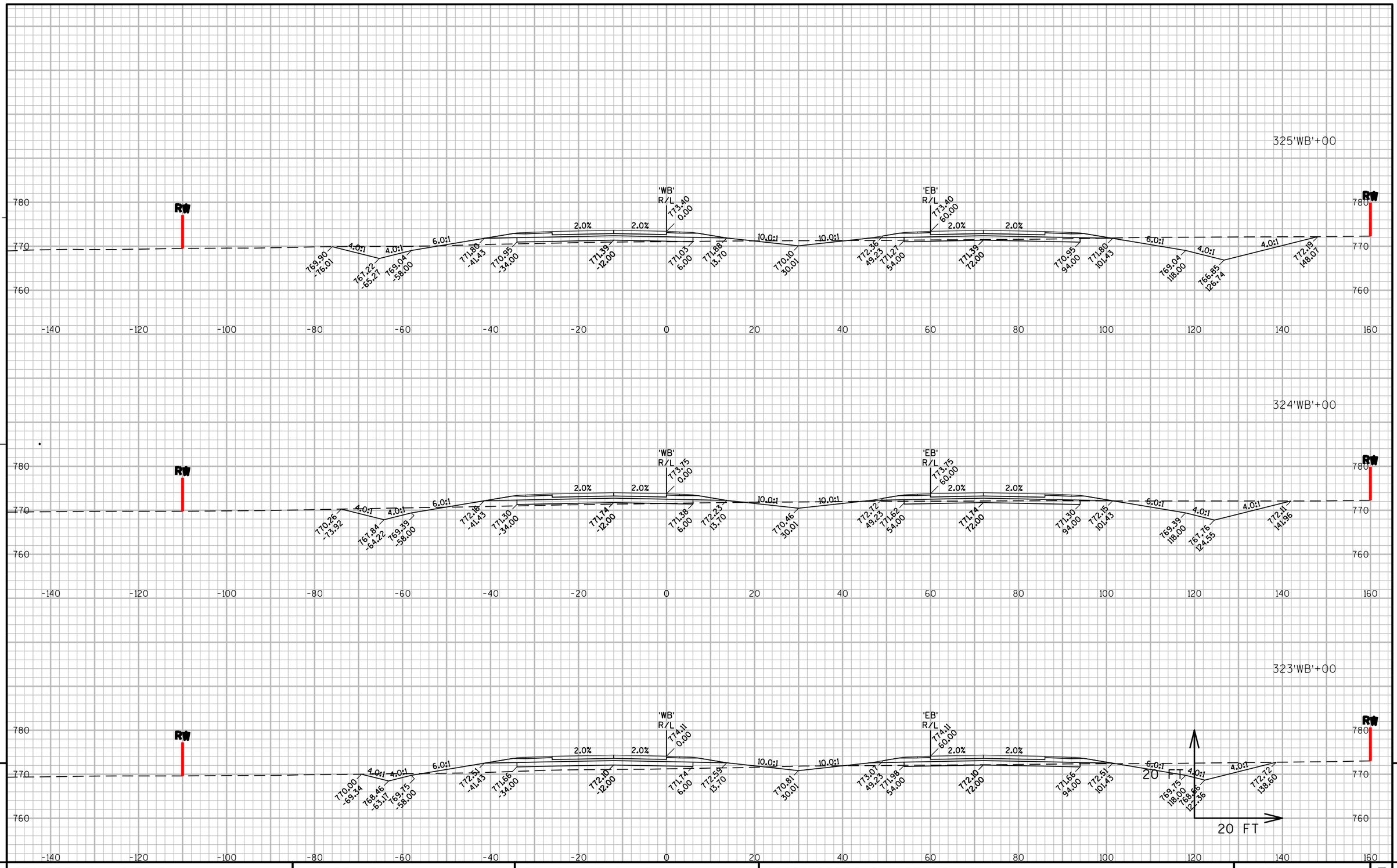
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 561	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090341_XS

PLOT DATE : 12/15/2020 9:39 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

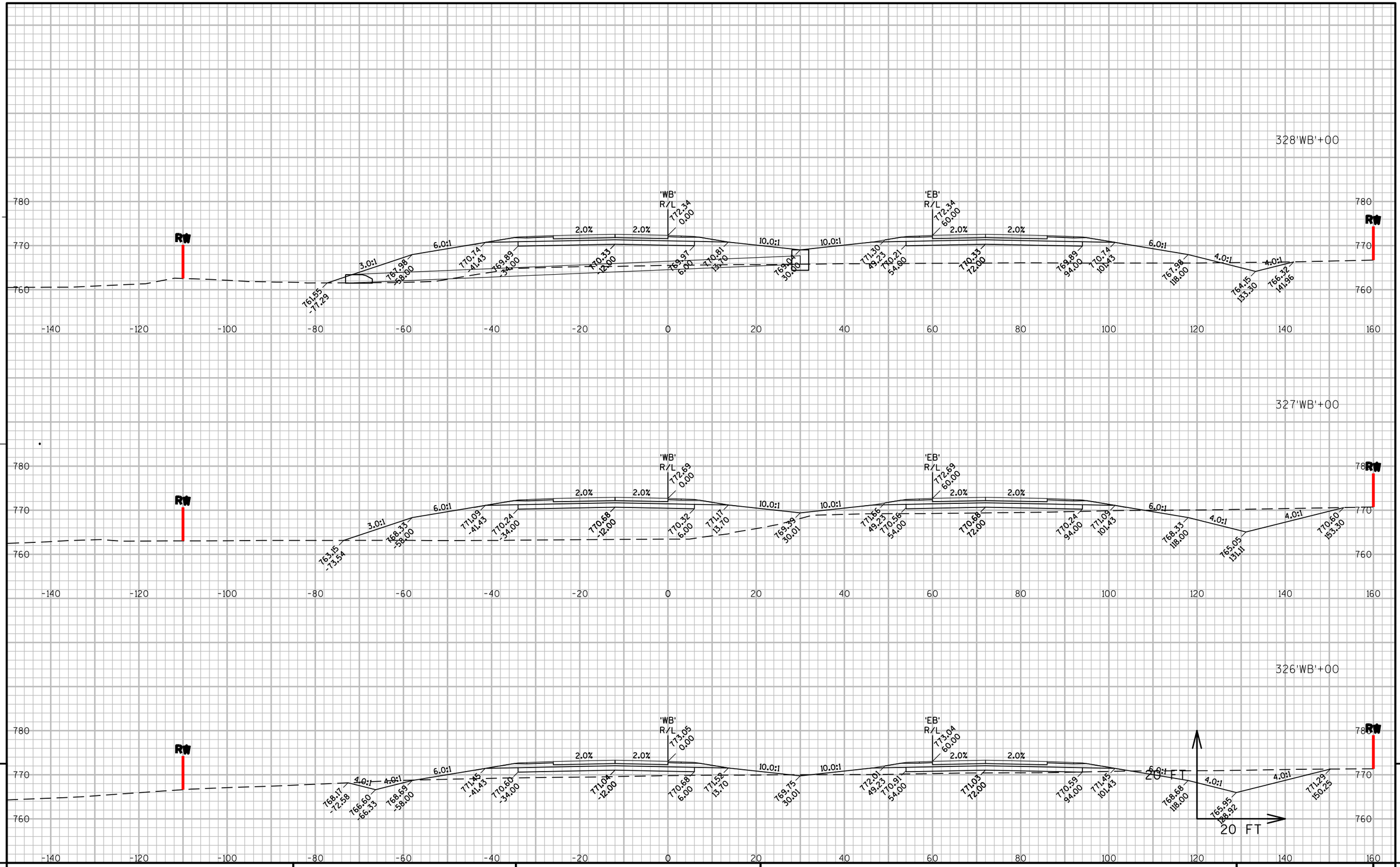


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 562	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090342_XS

PLOT DATE : 12/15/2020 9:39 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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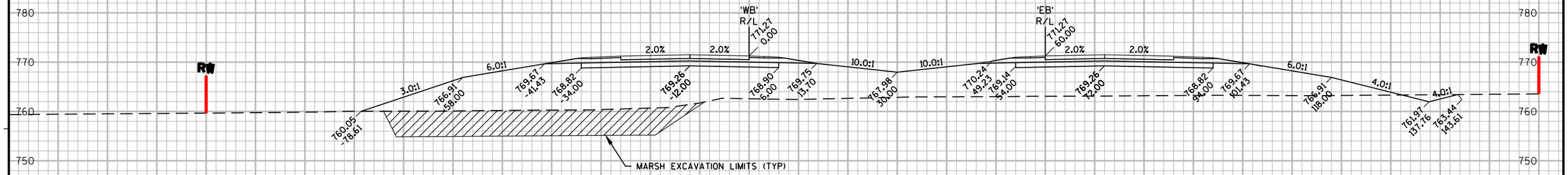
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 563	E

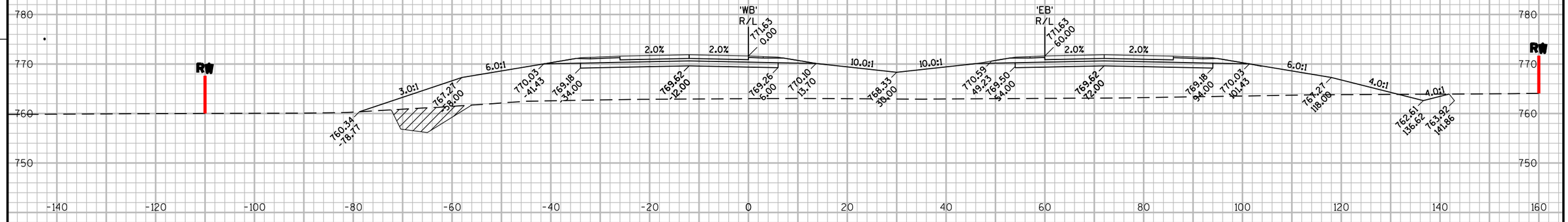
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LAYOUT NAME - 090343_XS

PLOT DATE : 12/15/2020 9:39 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

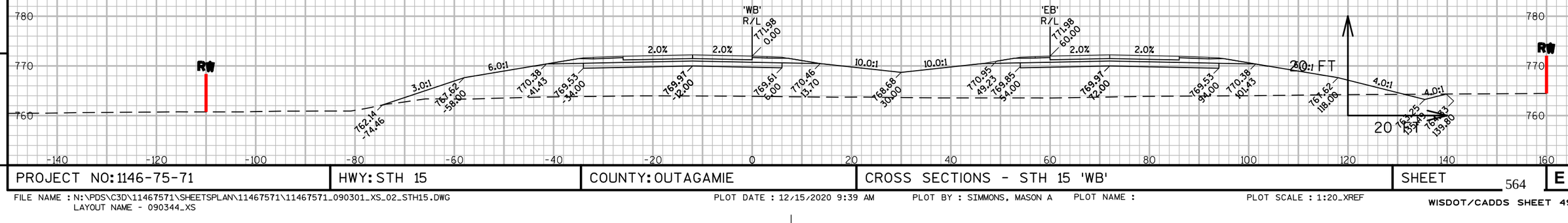
331'WB'+00



330'WB'+00



329'WB'+00



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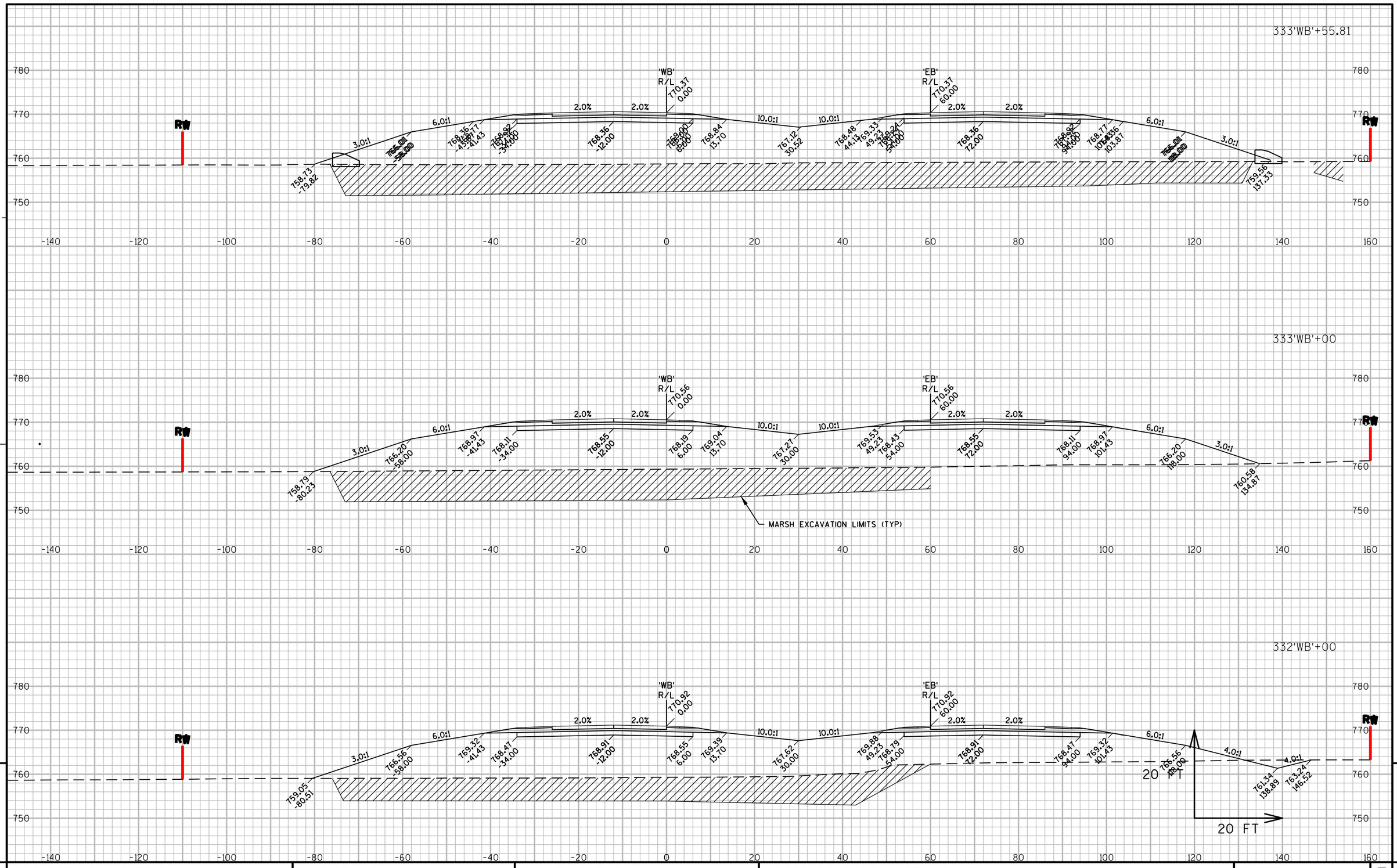
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 564	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090344_XS

PLOT DATE : 12/15/2020 9:39 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



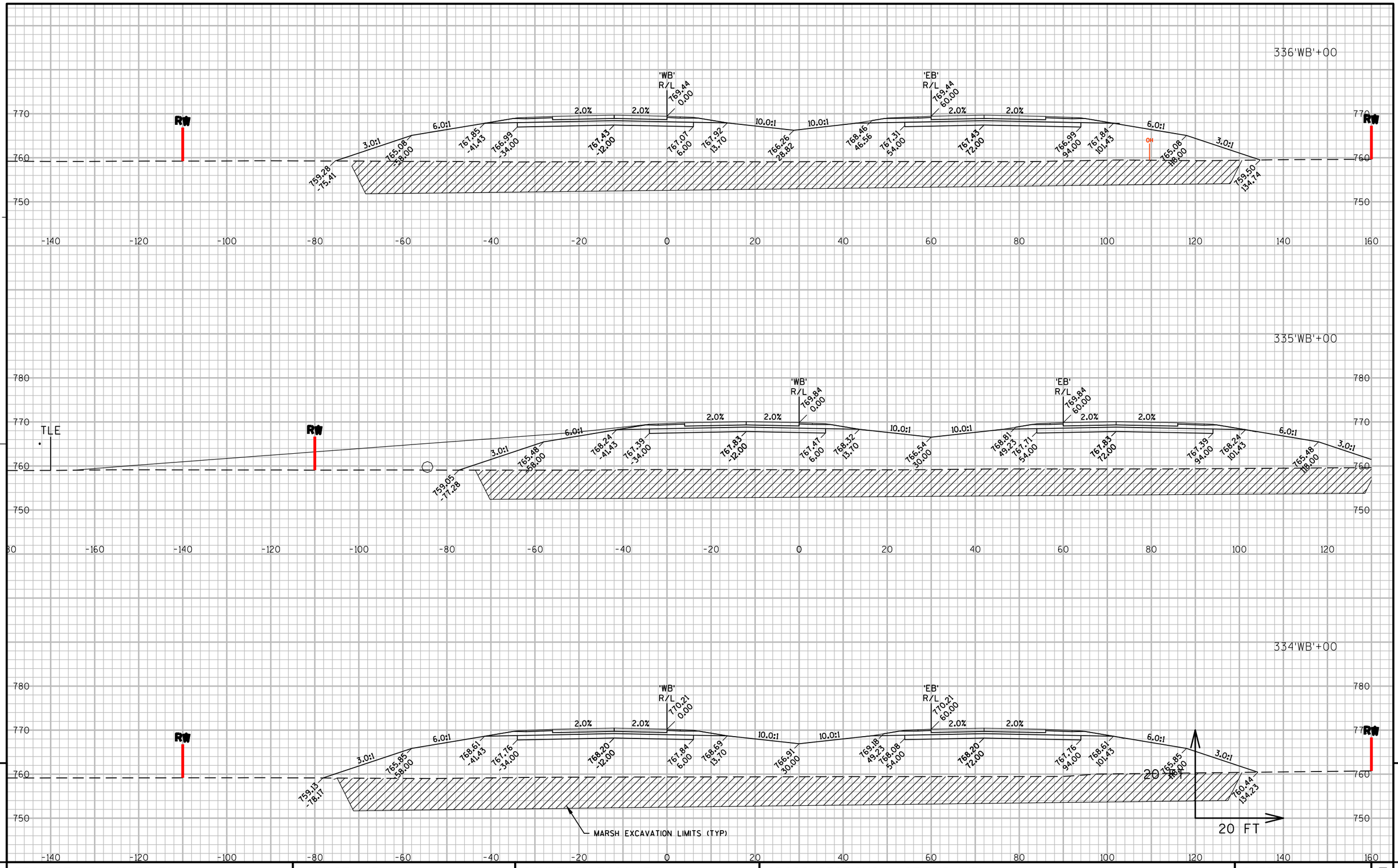
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 565	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090345_XS

PLOT DATE : 12/15/2020 9:39 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



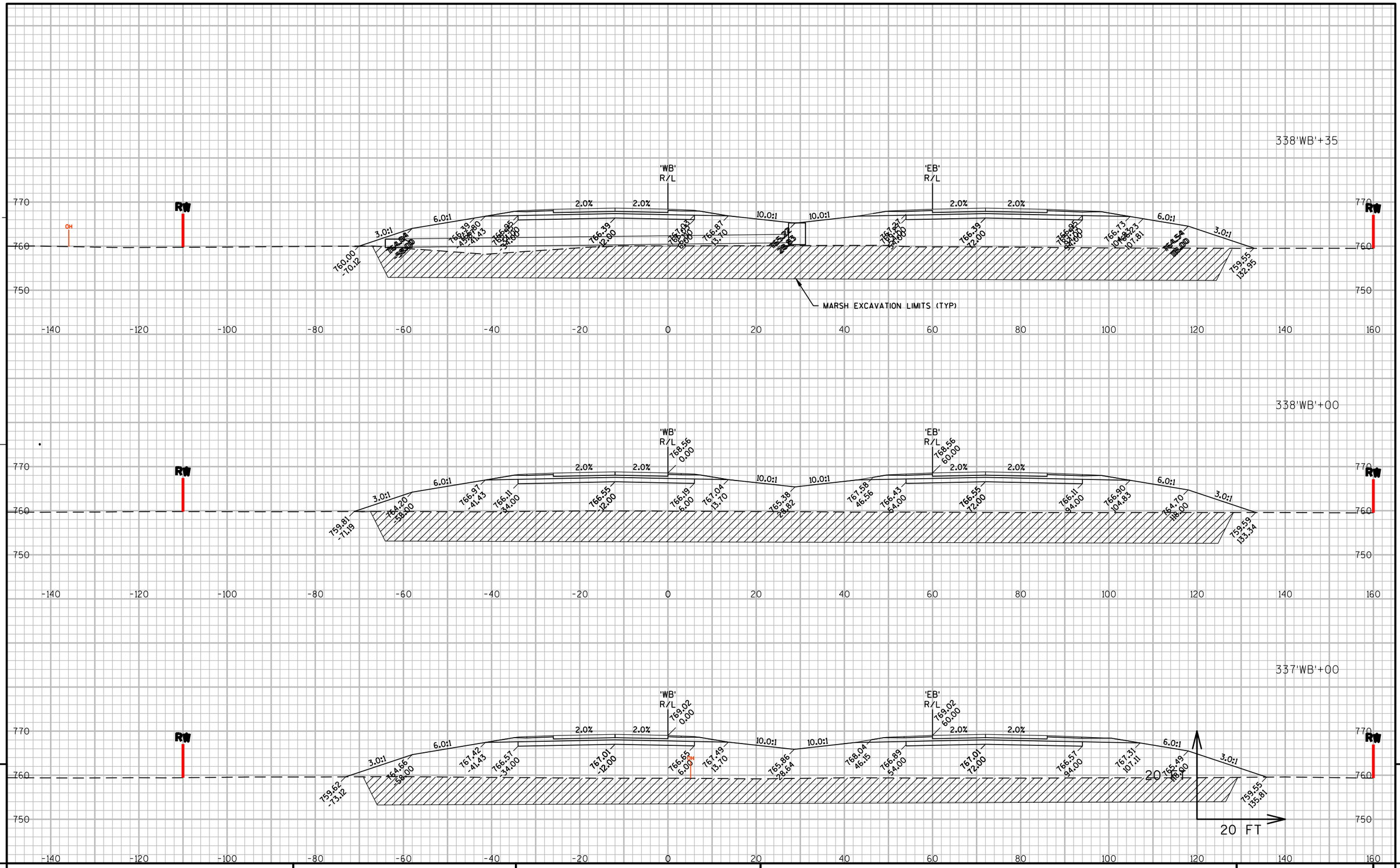
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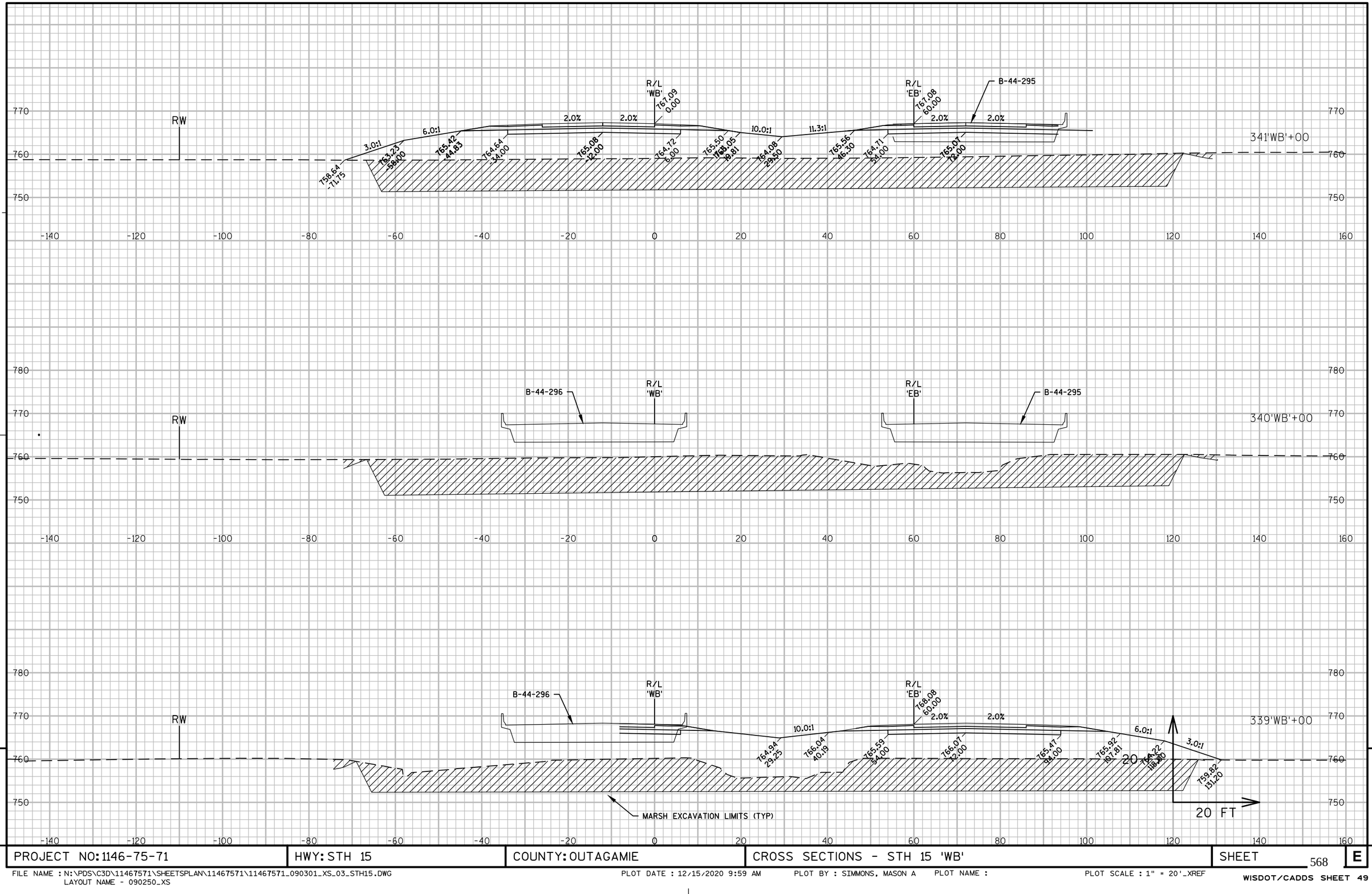
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 566	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090346_XS

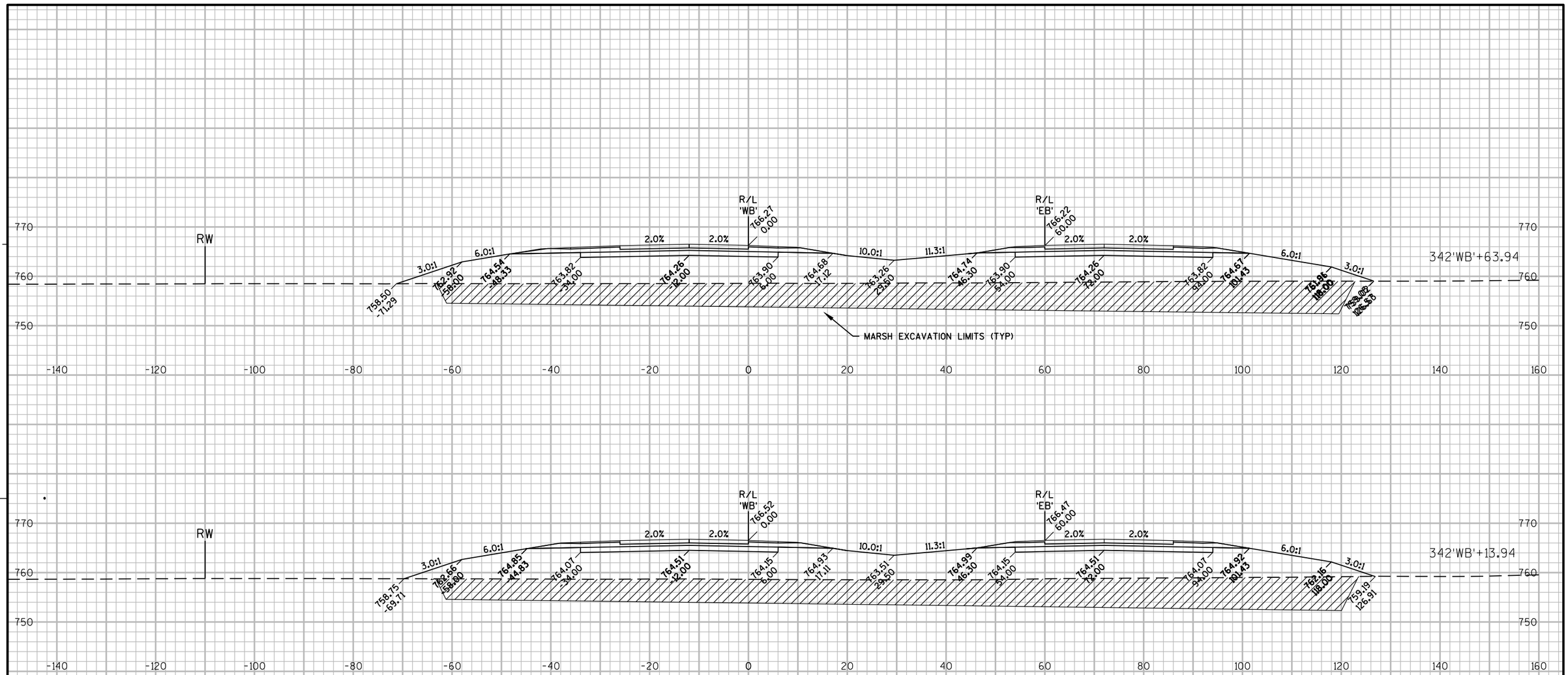
PLOT DATE : 12/15/2020 9:39 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



9	PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 567 E



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 568	E

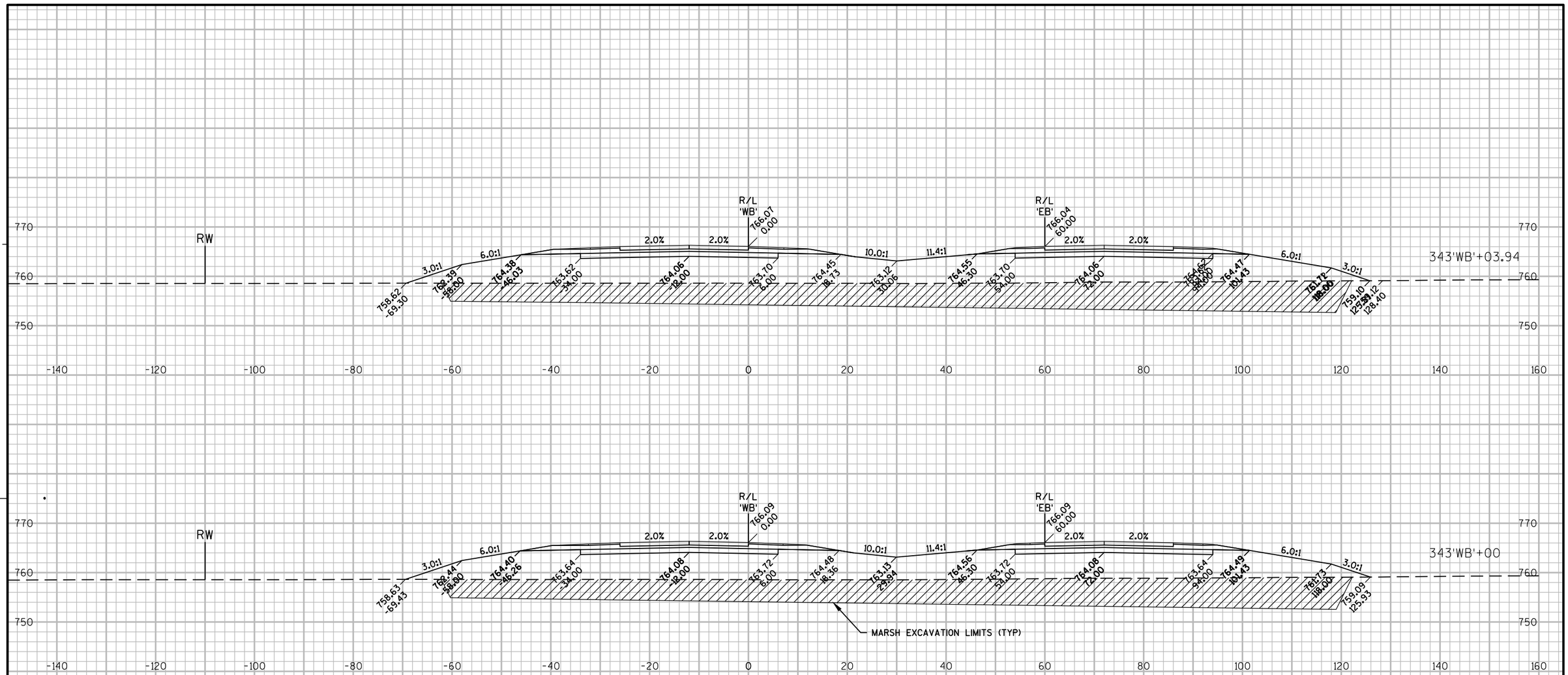


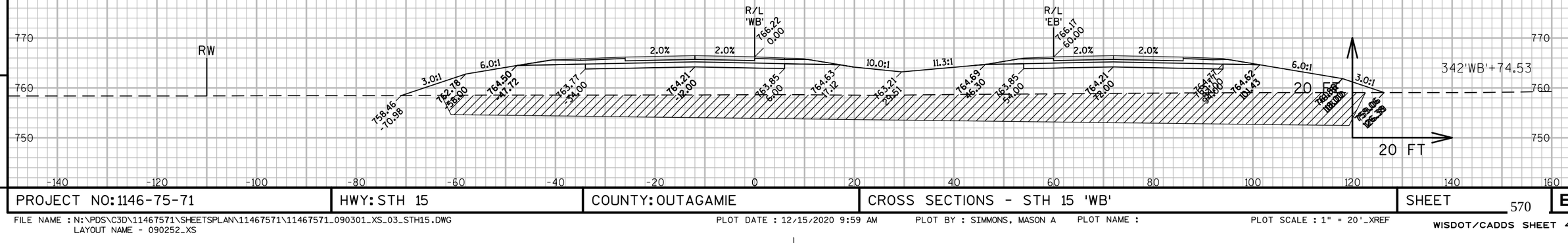
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FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090251_XS

PLOT DATE : 12/15/2020 9:59 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49





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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 570	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090252_XS

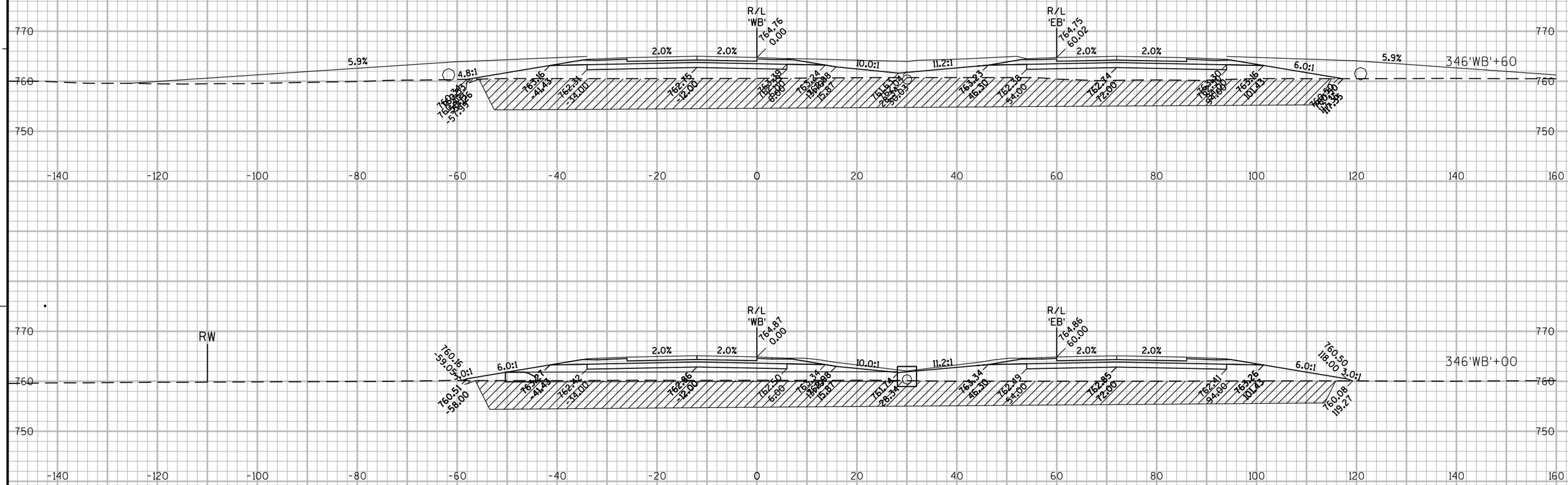
PLOT DATE : 12/15/2020 9:59 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

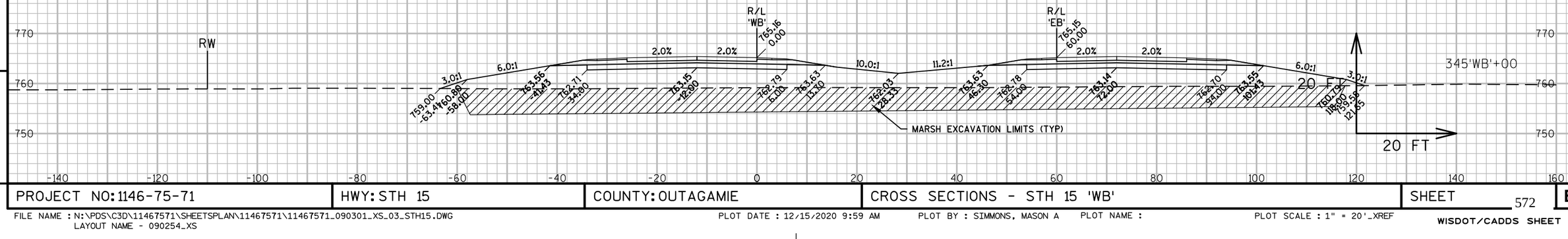
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 571	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090253_XS

PLOT DATE : 12/15/2020 9:59 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49





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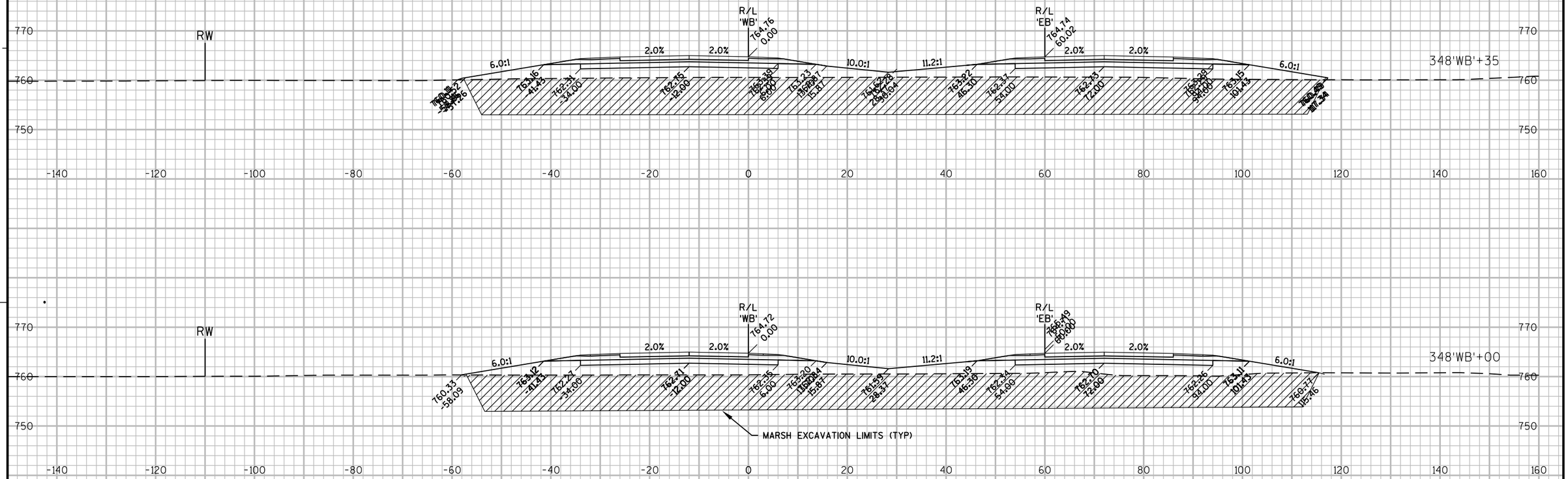
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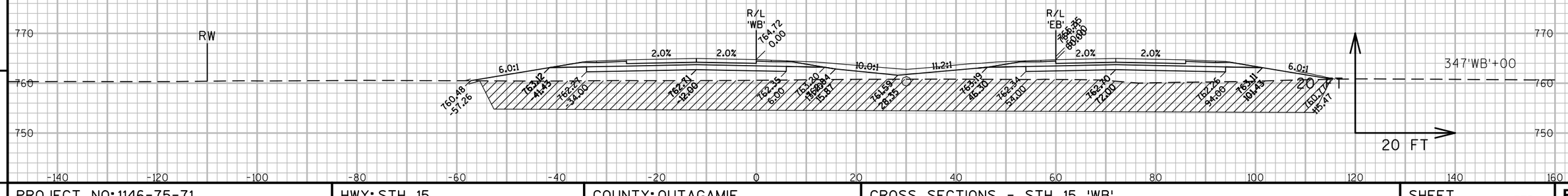
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 572	E

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LAYOUT NAME - 090254_XS

PLOT DATE : 12/15/2020 9:59 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49





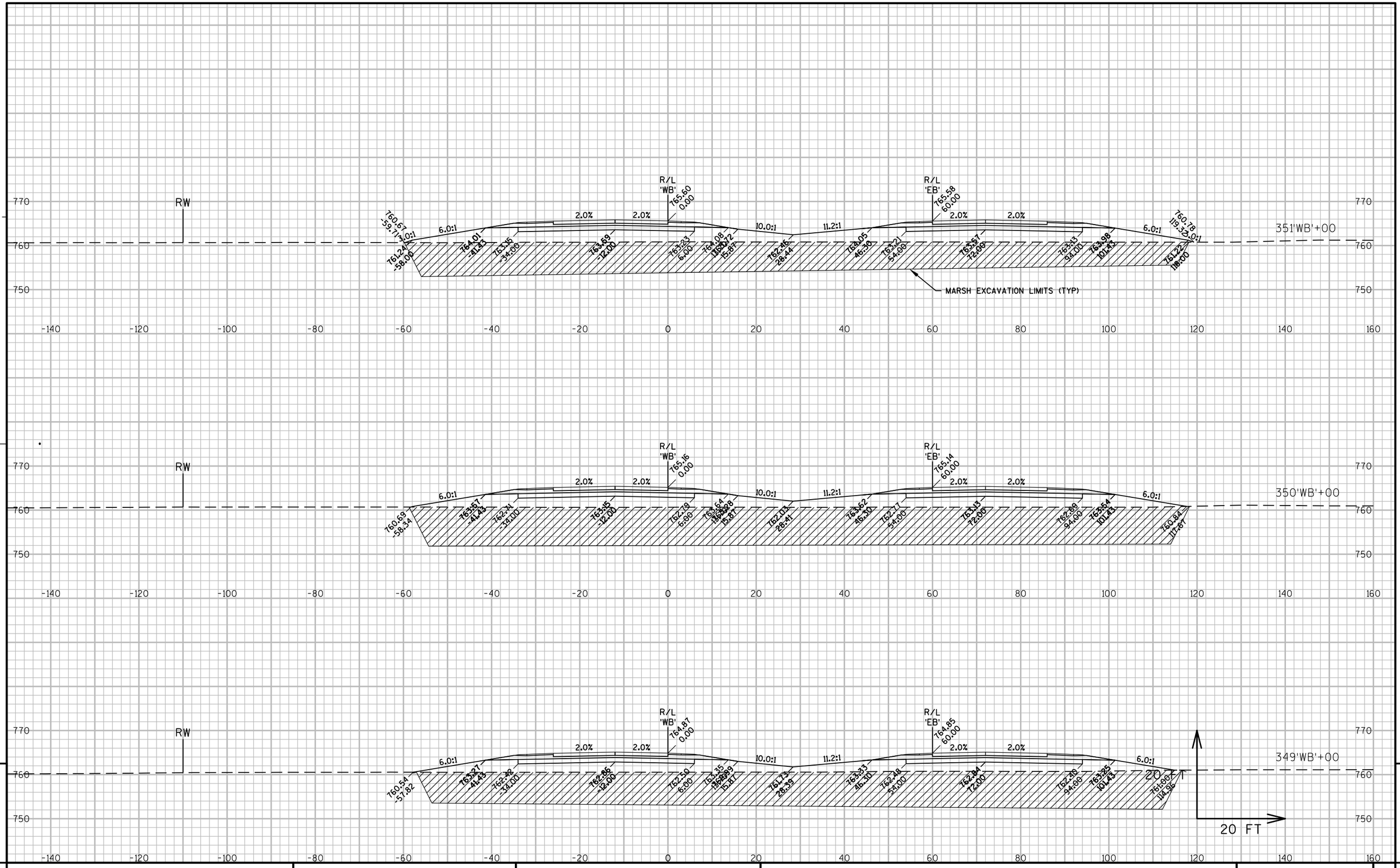
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 573	E

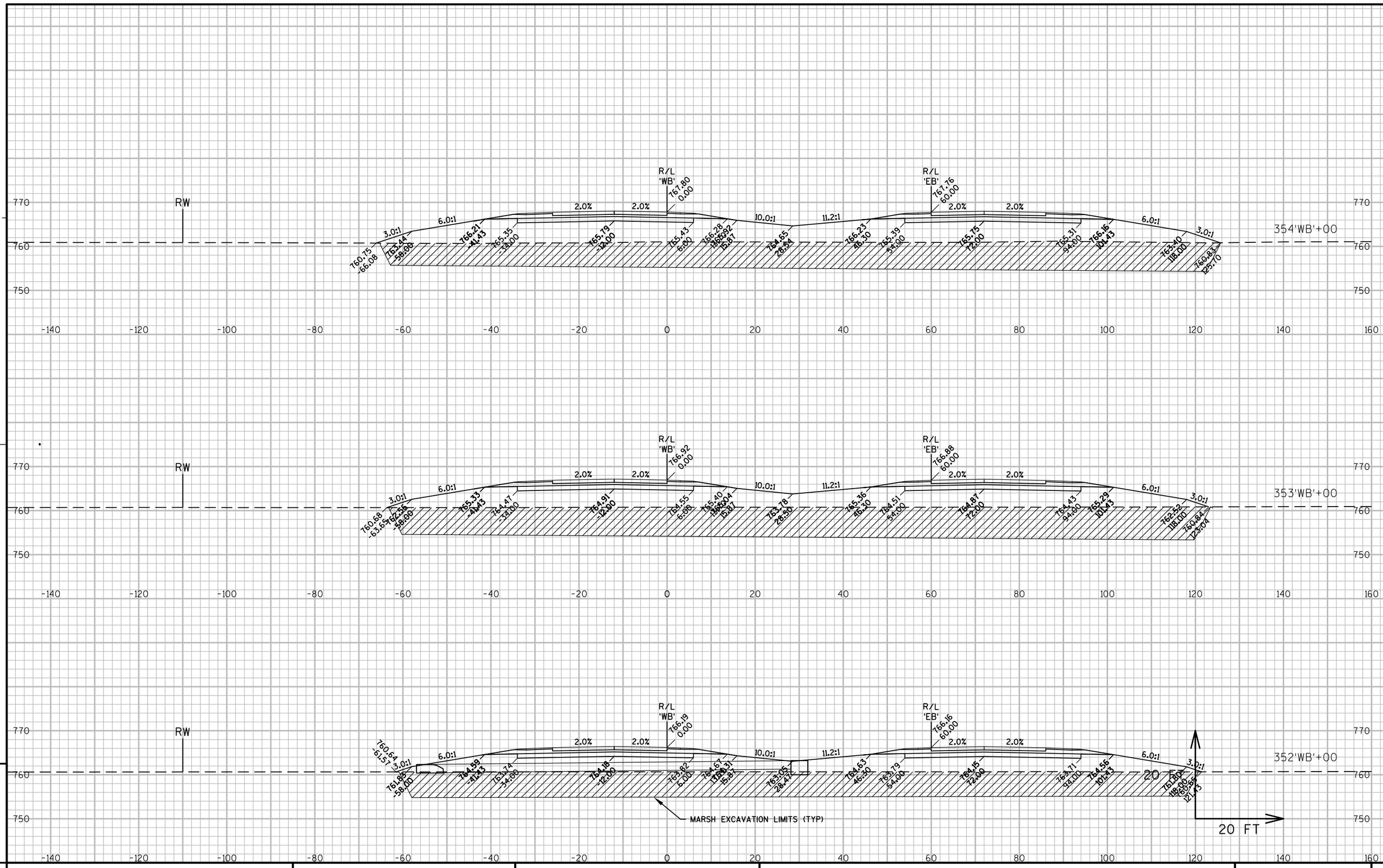
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LAYOUT NAME - 090255_XS

PLOT DATE : 12/15/2020 9:59 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 574	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090256_XS
PLOT DATE : 12/15/2020 9:59 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49

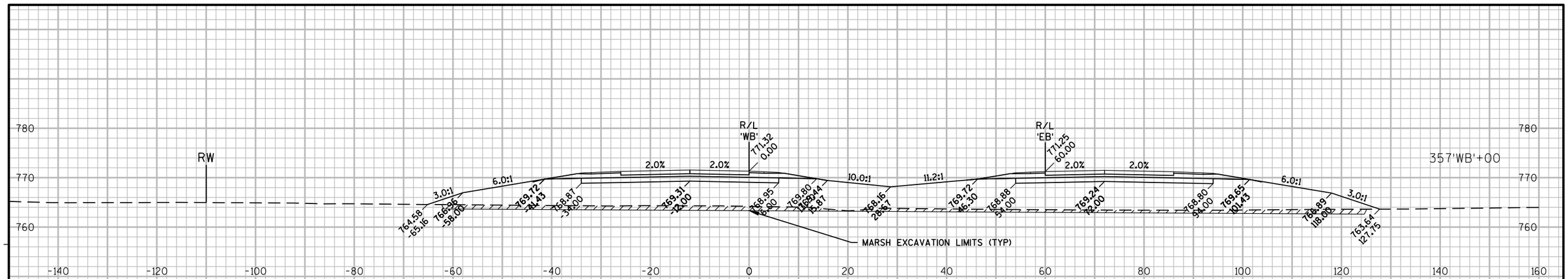


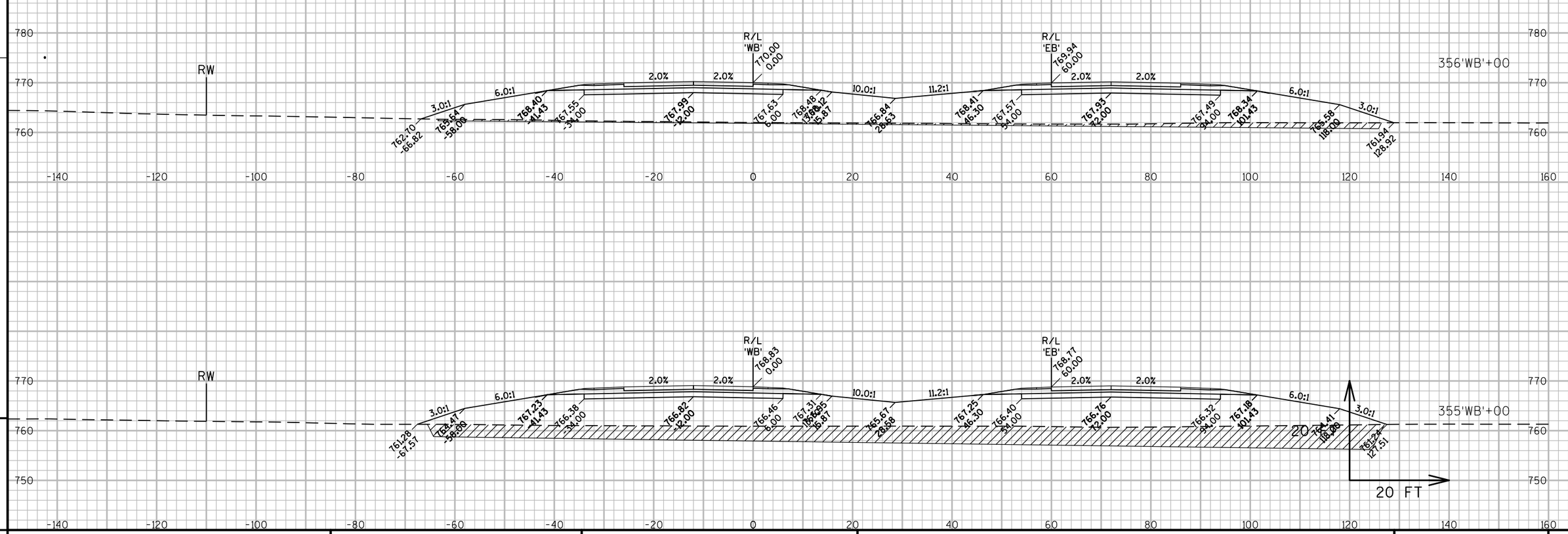
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 575	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090257_XS

PLOT DATE : 12/15/2020 9:59 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



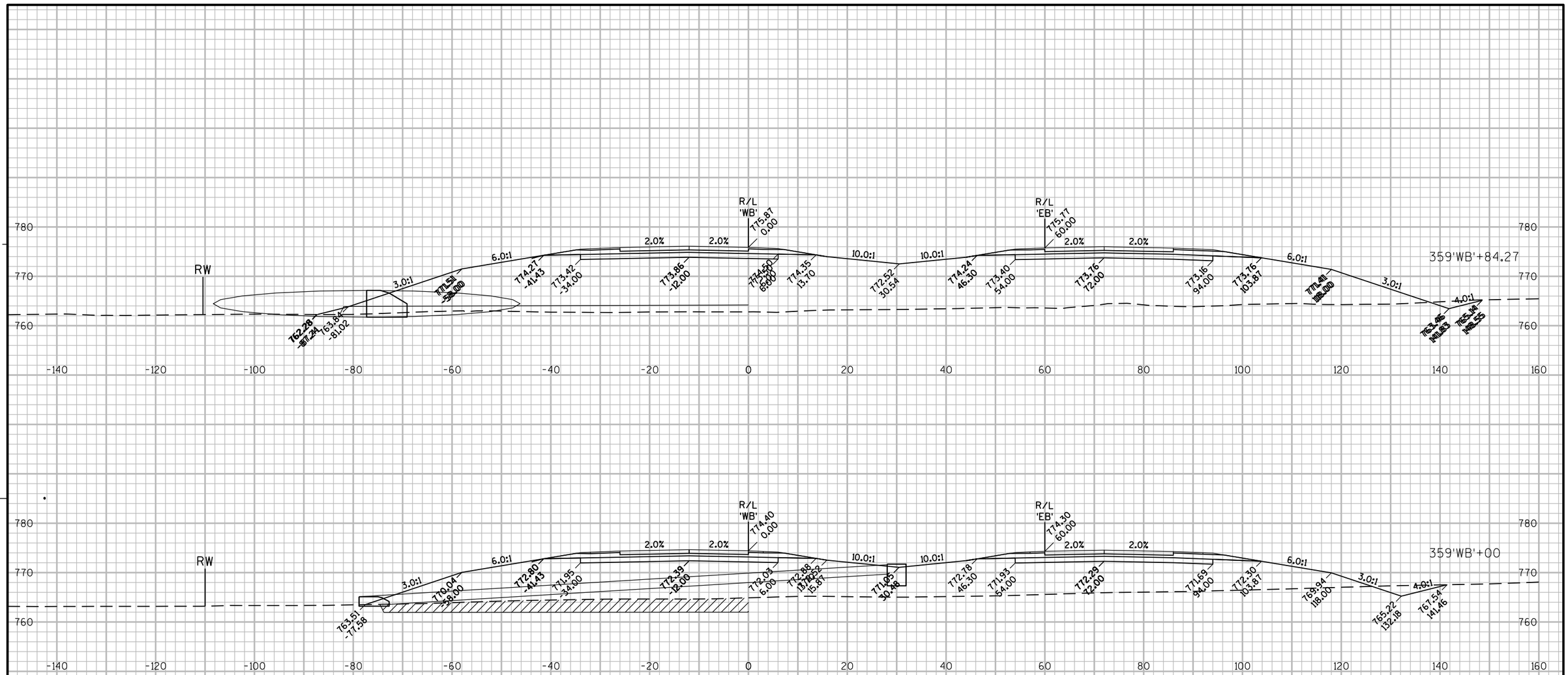


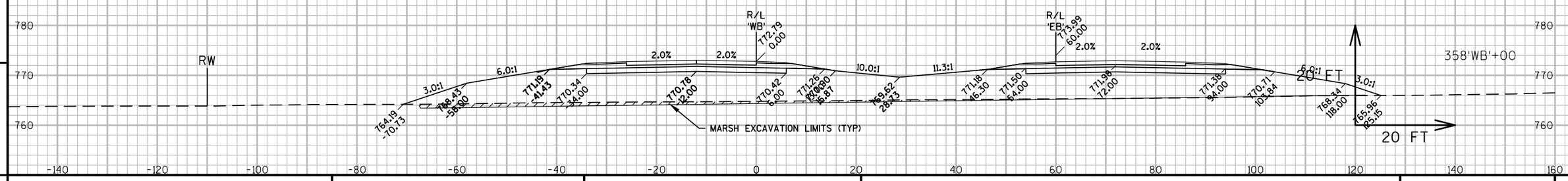
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 576	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090258_XS
PLOT DATE : 12/15/2020 9:59 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF





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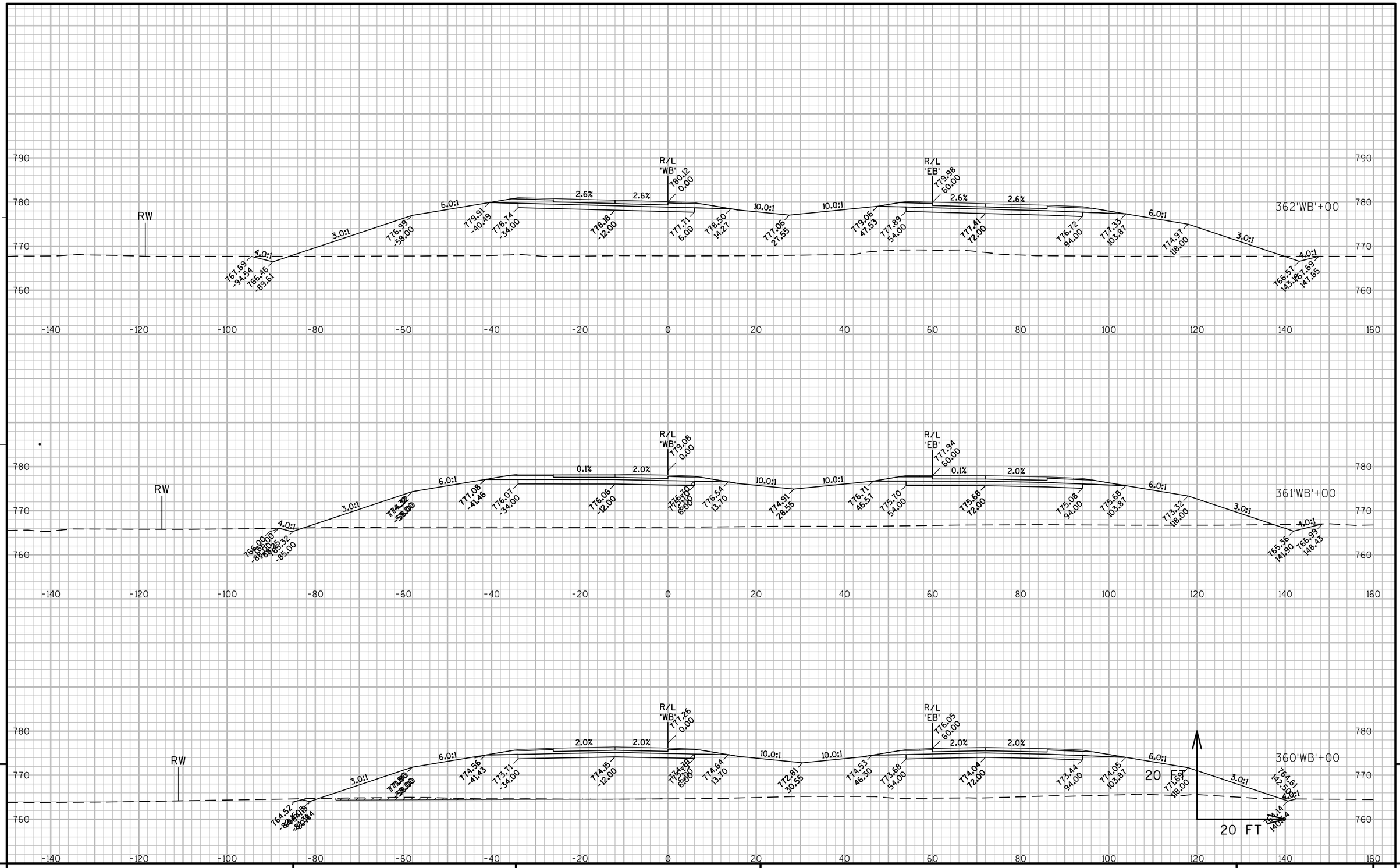
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 577	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090259_XS

PLOT DATE : 12/15/2020 9:59 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

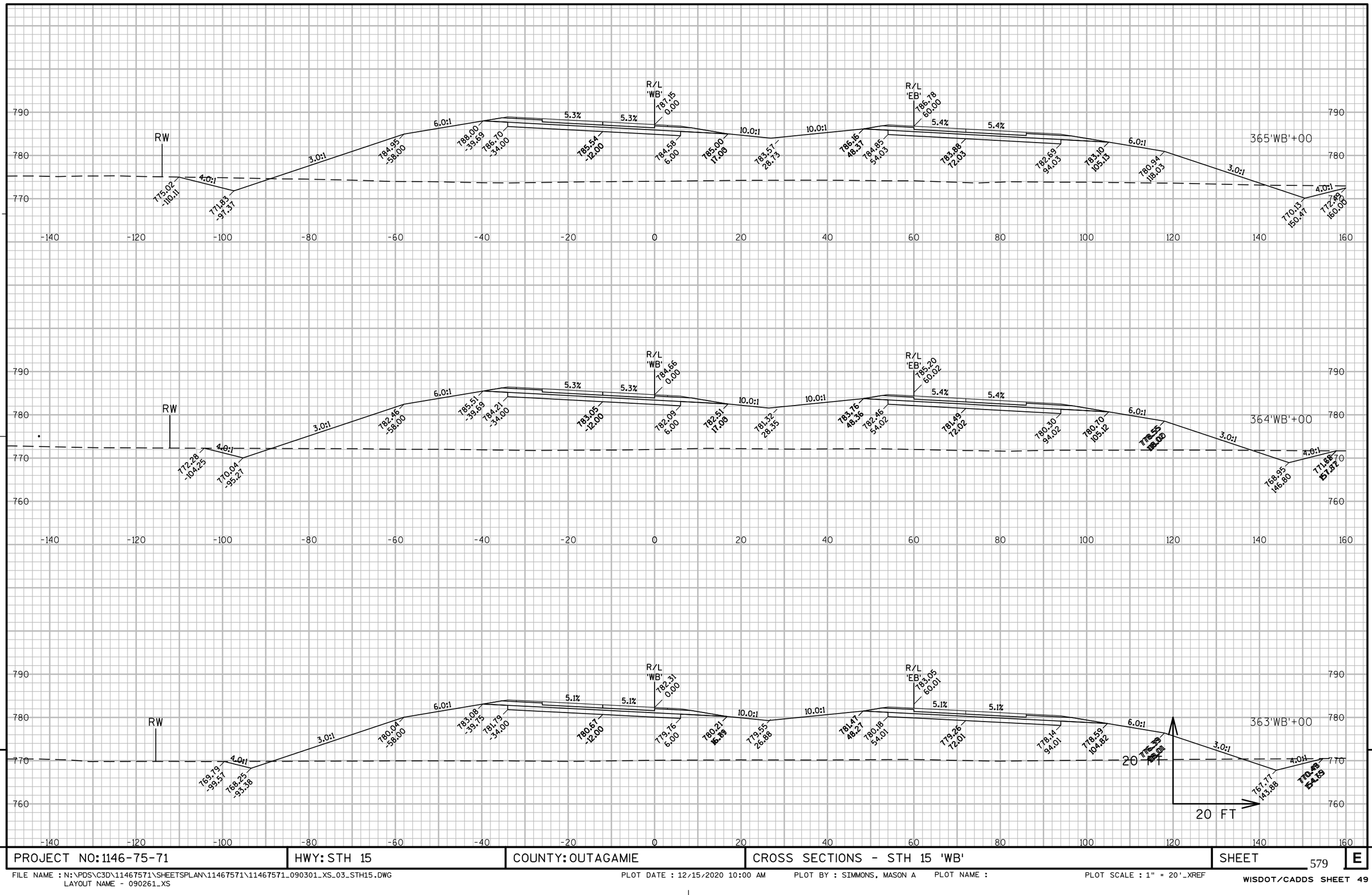


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 578	E

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LAYOUT NAME - 090260_XS

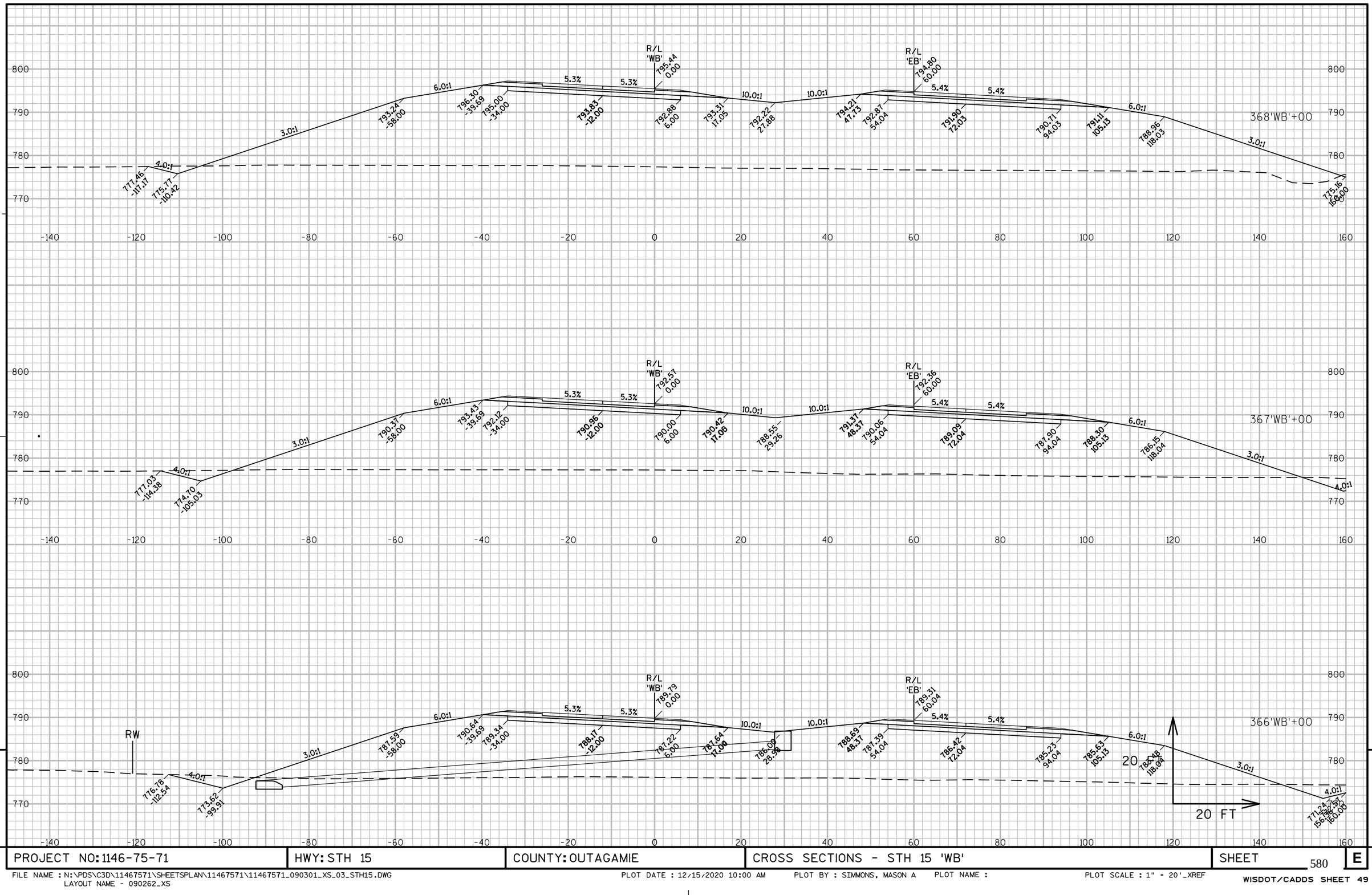
PLOT DATE : 12/15/2020 10:00 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 579	E

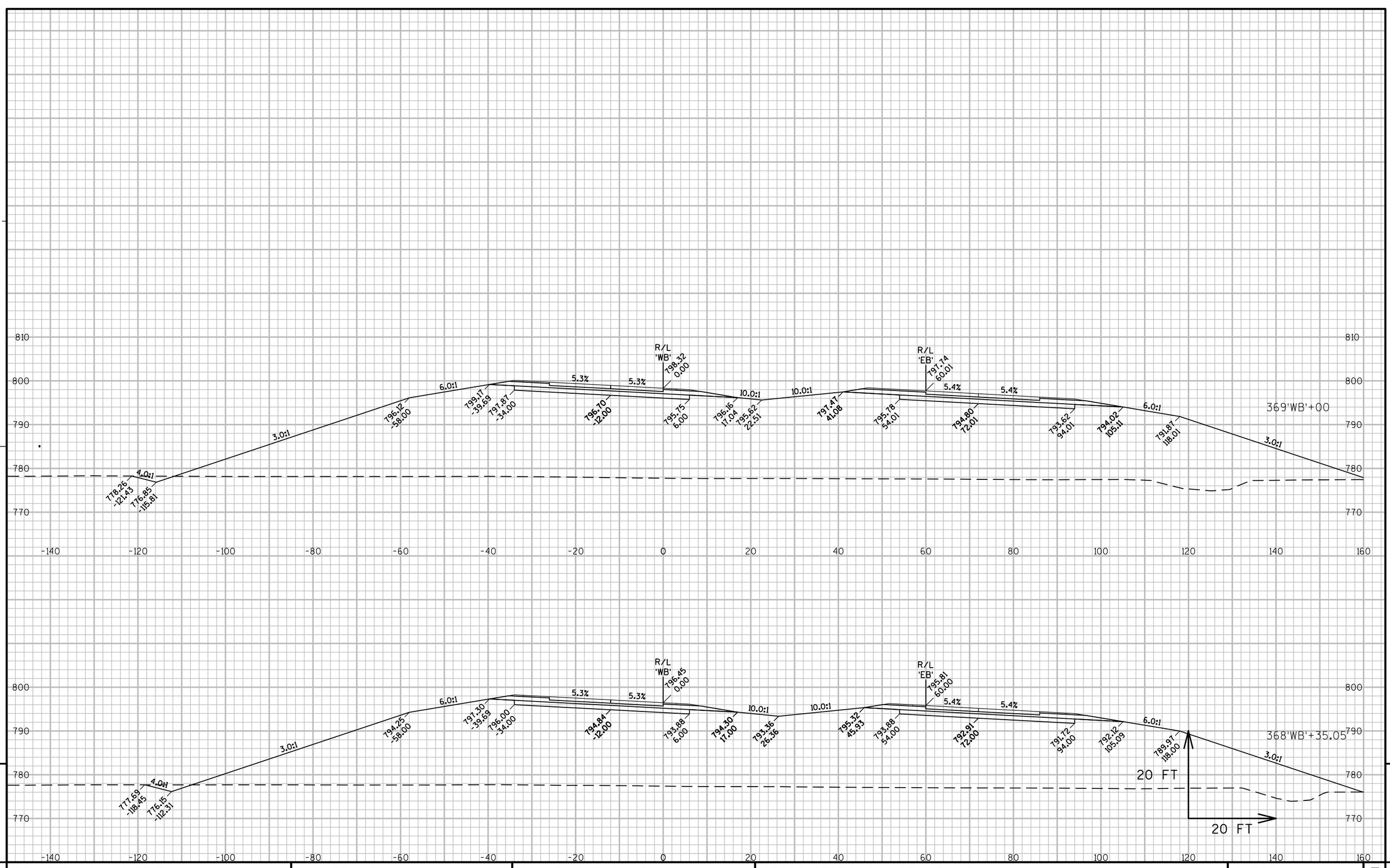


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 580	E

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LAYOUT NAME - 090262_XS

PLOT DATE : 12/15/2020 10:00 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

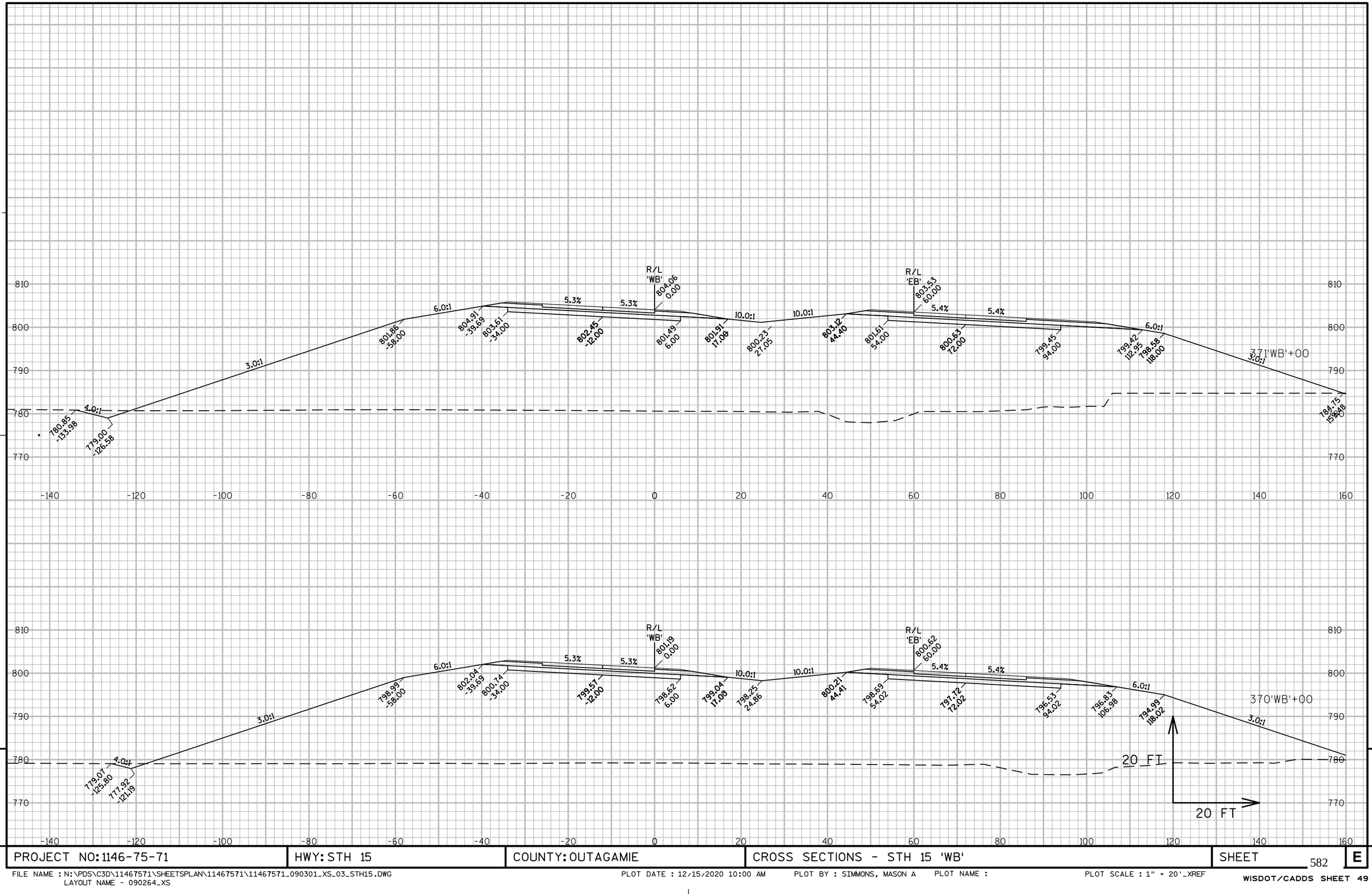


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 581	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090263_XS

PLOT DATE : 12/15/2020 10:00 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

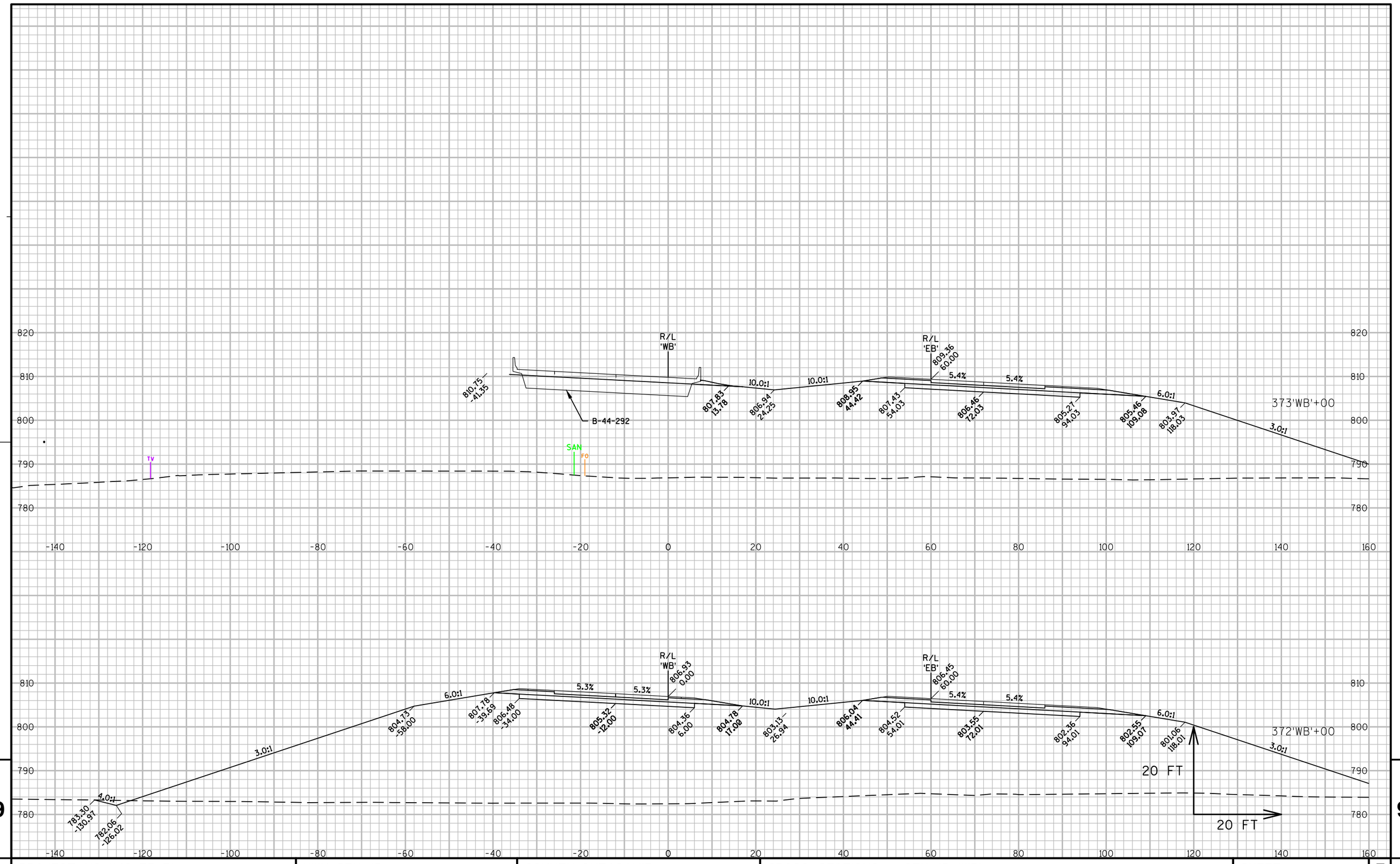


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 582	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090264_XS

PLOT DATE : 12/15/2020 10:00 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

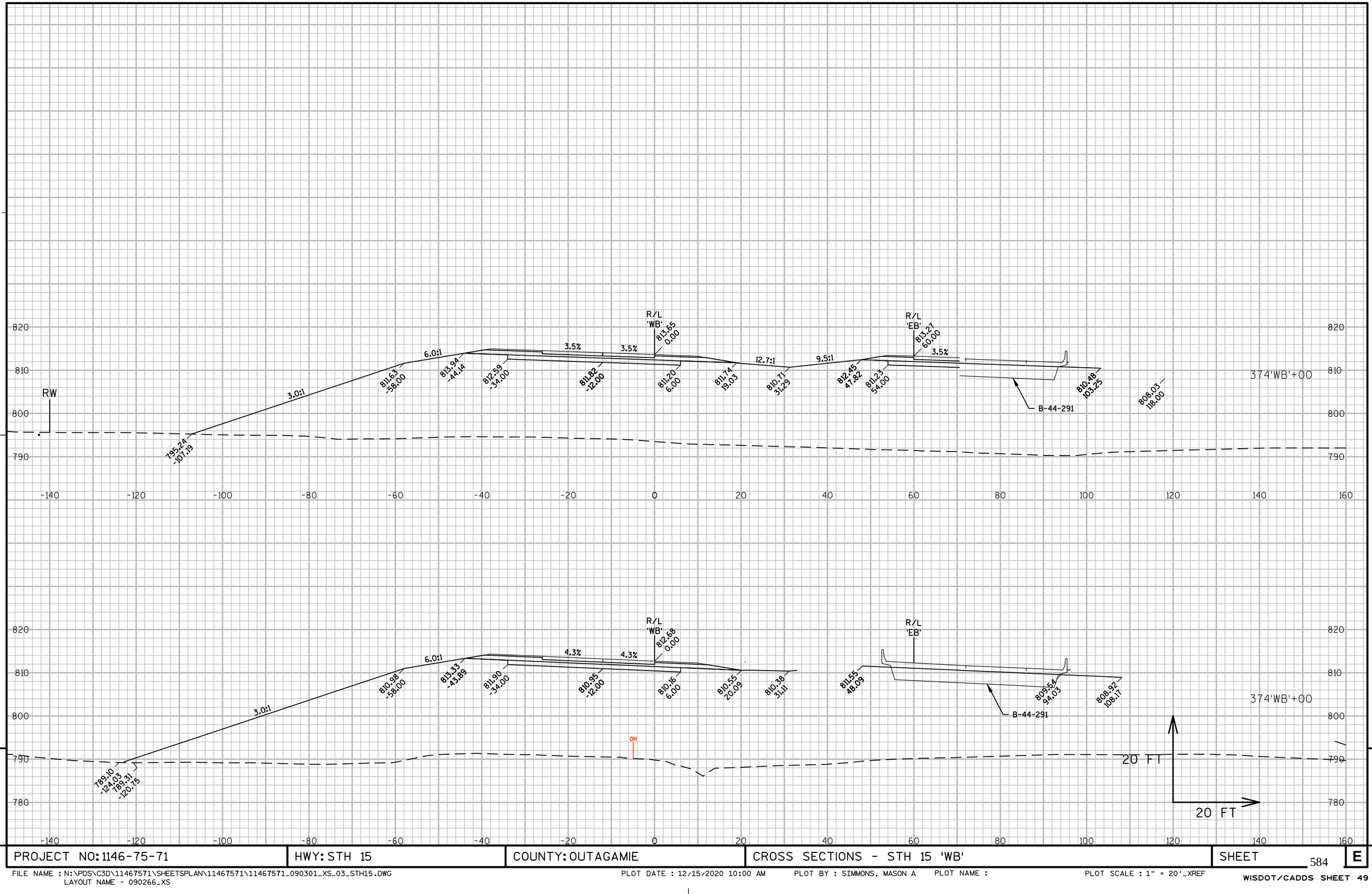
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 583	E

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LAYOUT NAME - 090265_XS

PLOT DATE : 12/15/2020 10:00 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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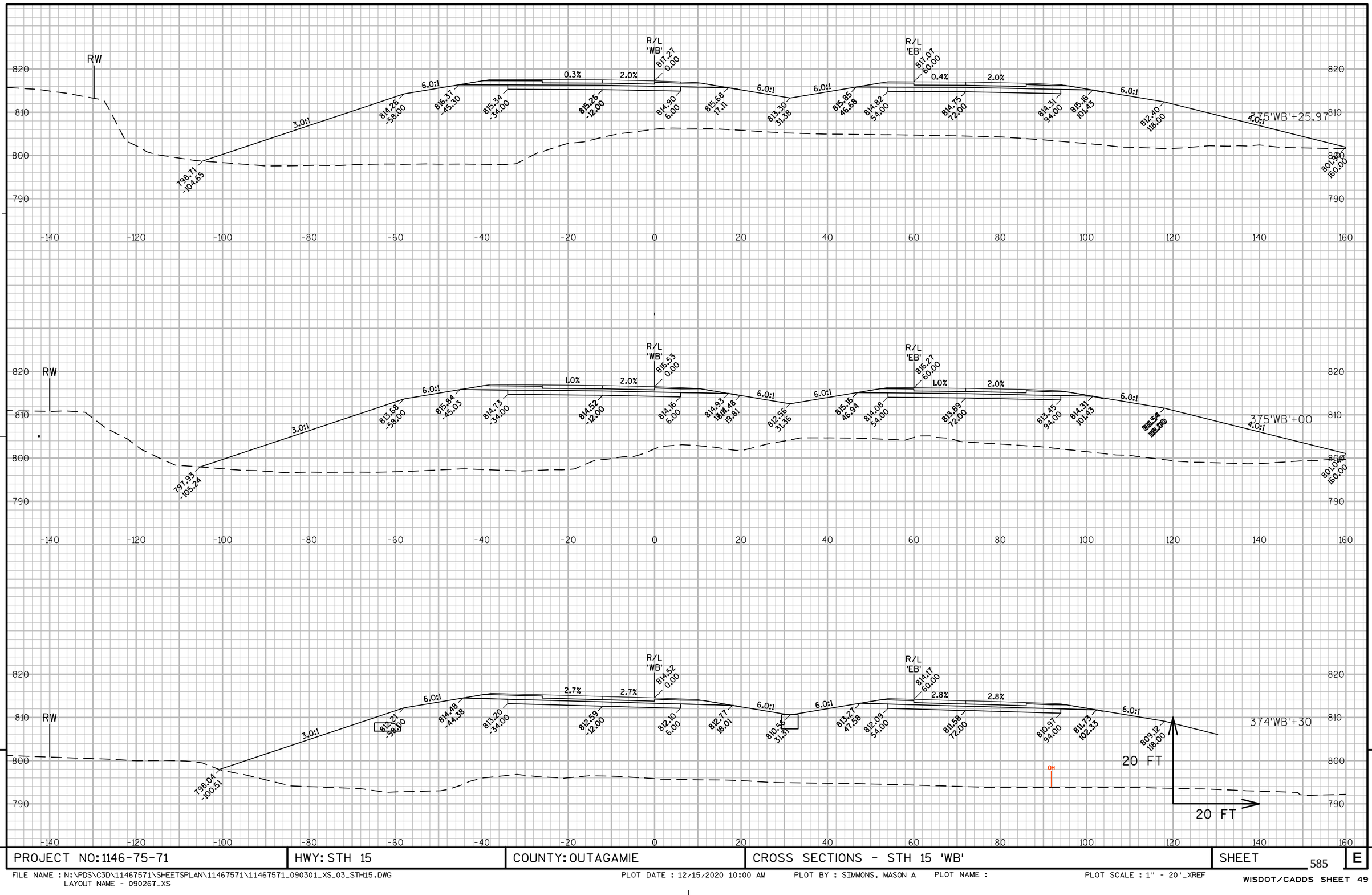
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 584	E

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LAYOUT NAME - 090266_XS

PLOT DATE : 12/15/2020 10:00 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

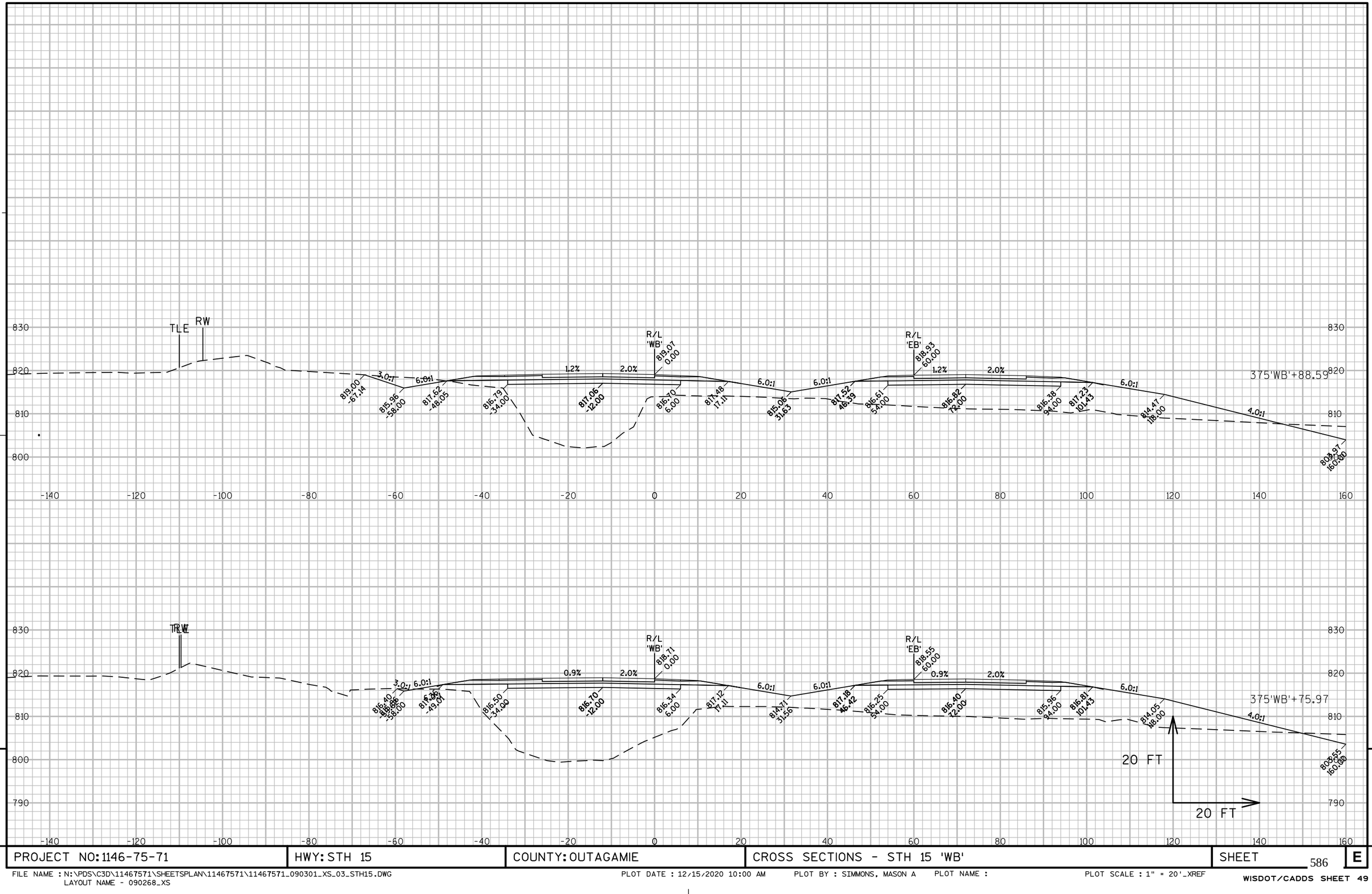


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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 585	E

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LAYOUT NAME - 090267_XS
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WISDOT/CADDS SHEET 49

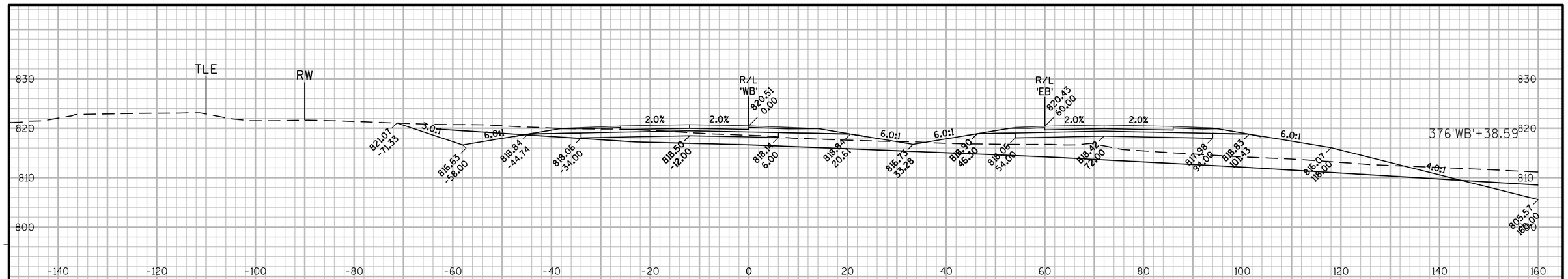


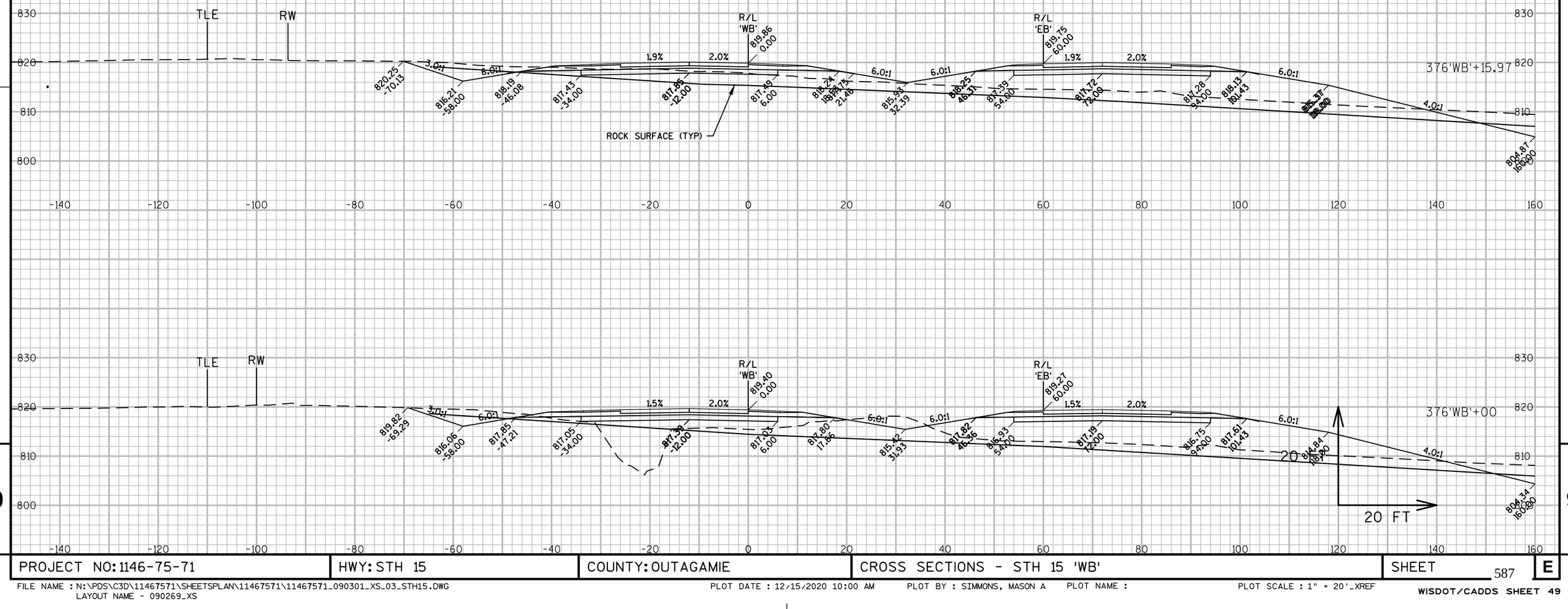
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 586	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090268_XS
PLOT DATE : 12/15/2020 10:00 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49





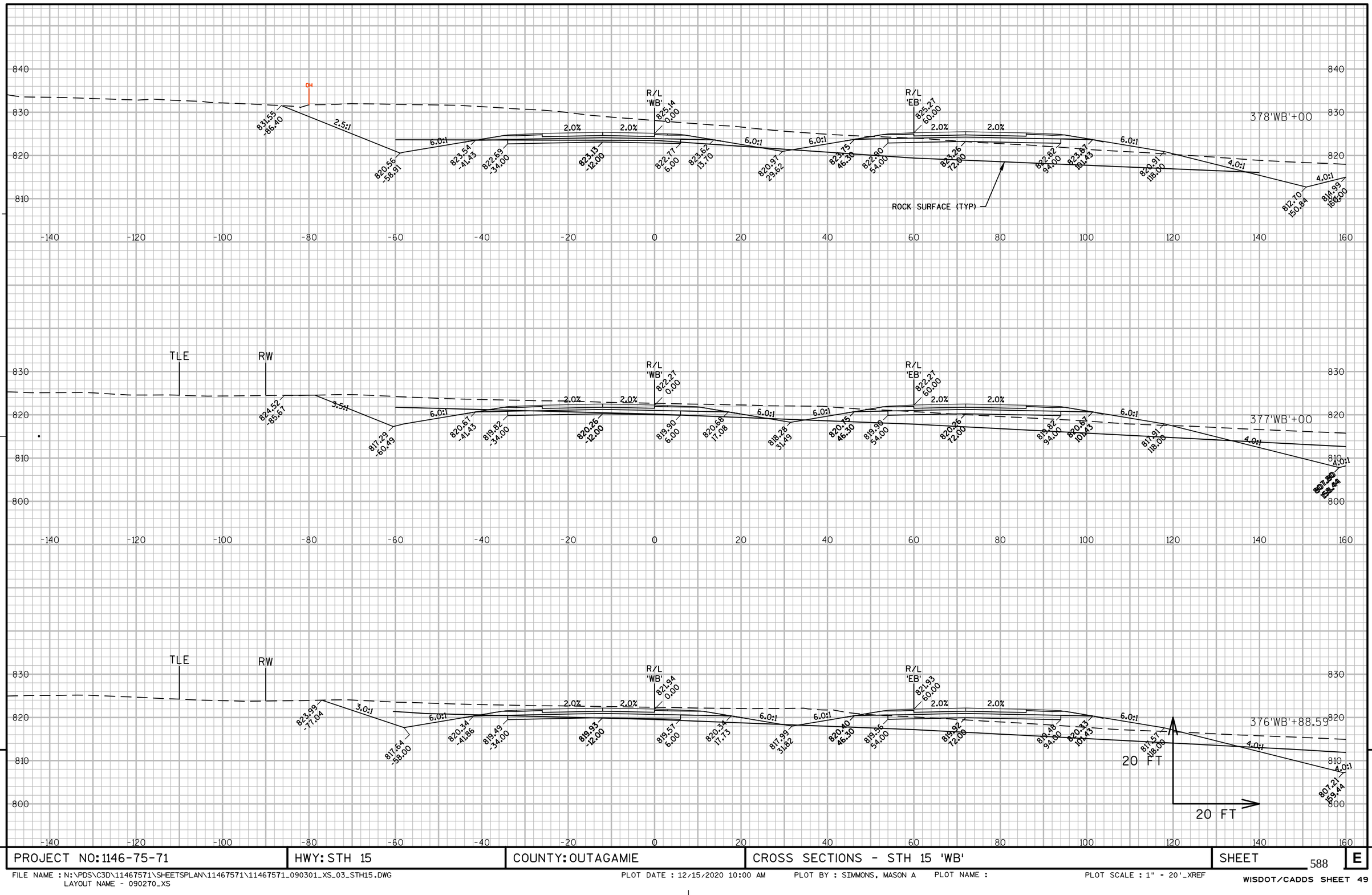
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 587	E

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LAYOUT NAME - 090269_XS

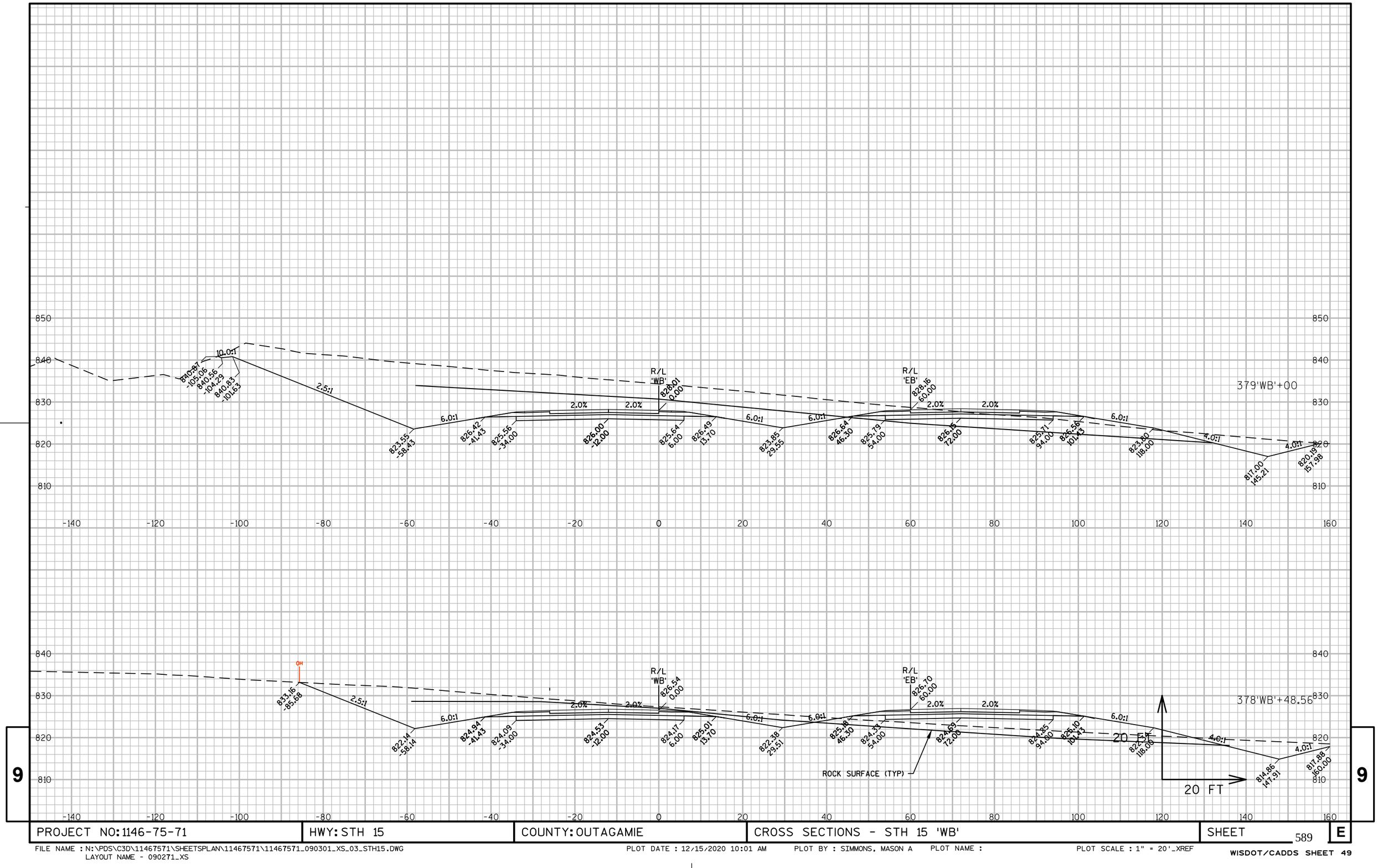
PLOT DATE : 12/15/2020 10:00 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 588	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090270_XS

PLOT DATE : 12/15/2020 10:00 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



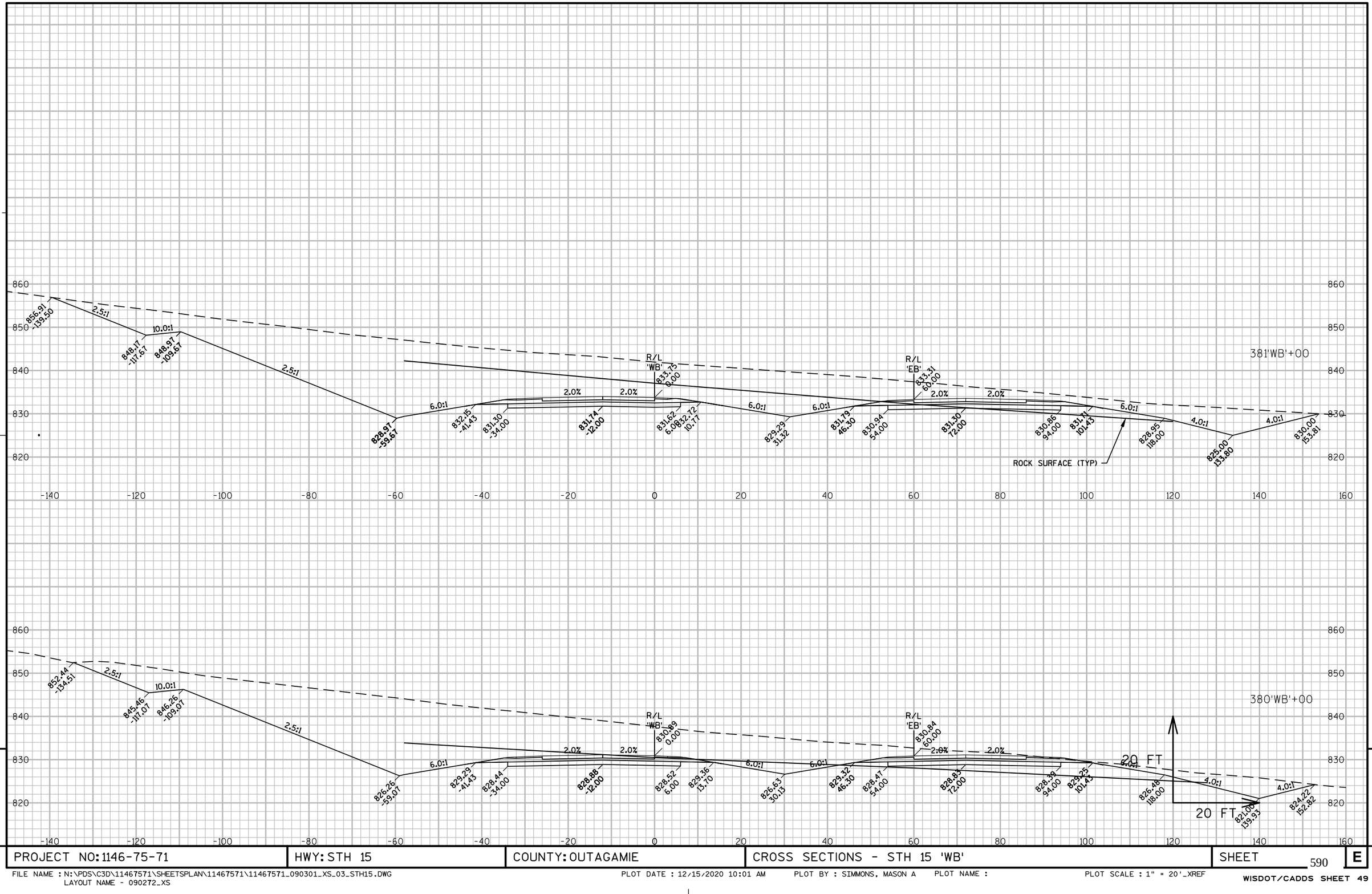
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 589	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090271_XS

PLOT DATE : 12/15/2020 10:01 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

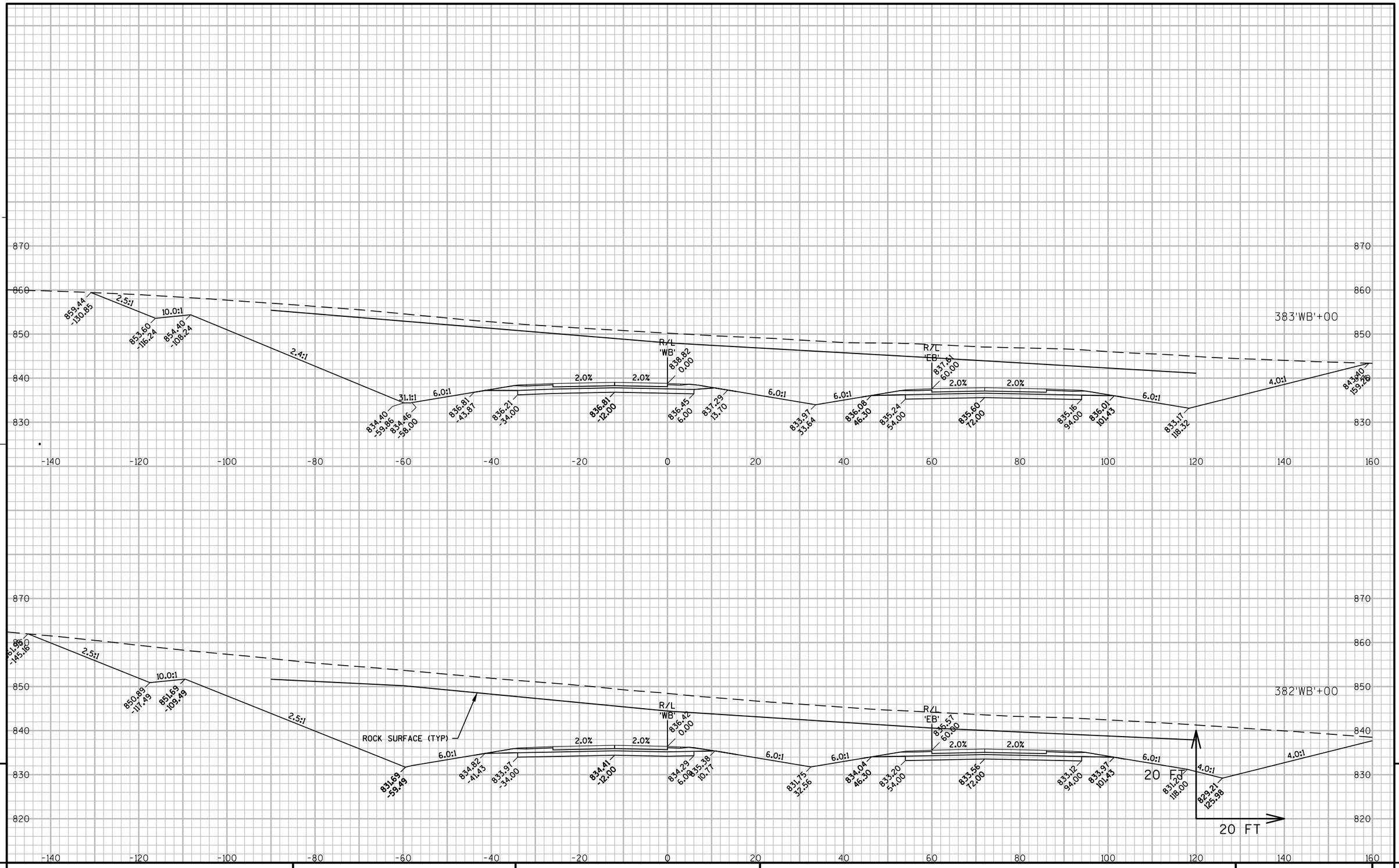


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 590 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090272_XS

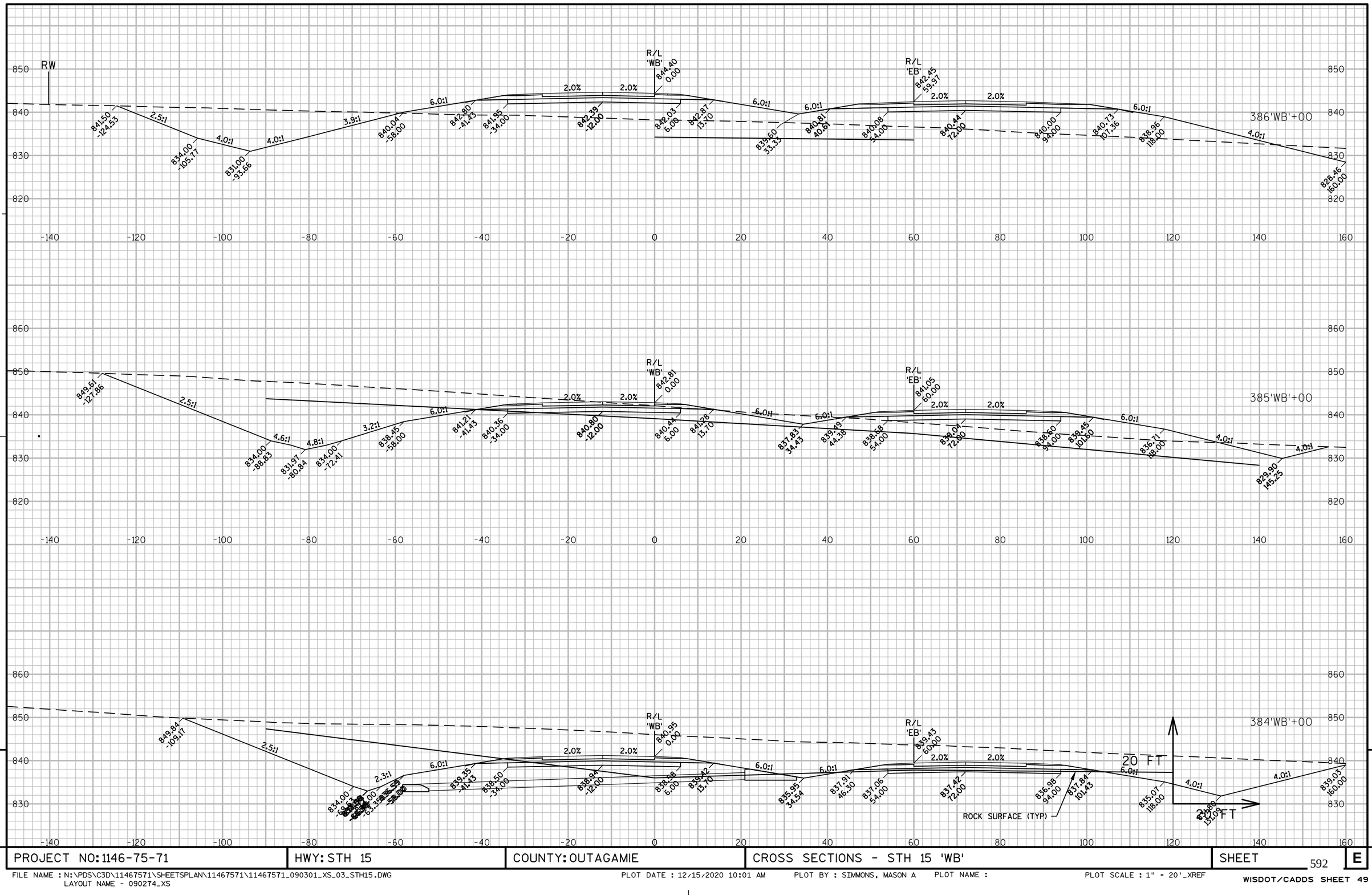
PLOT DATE : 12/15/2020 10:01 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 591 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090273_XS
PLOT DATE : 12/15/2020 10:01 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49

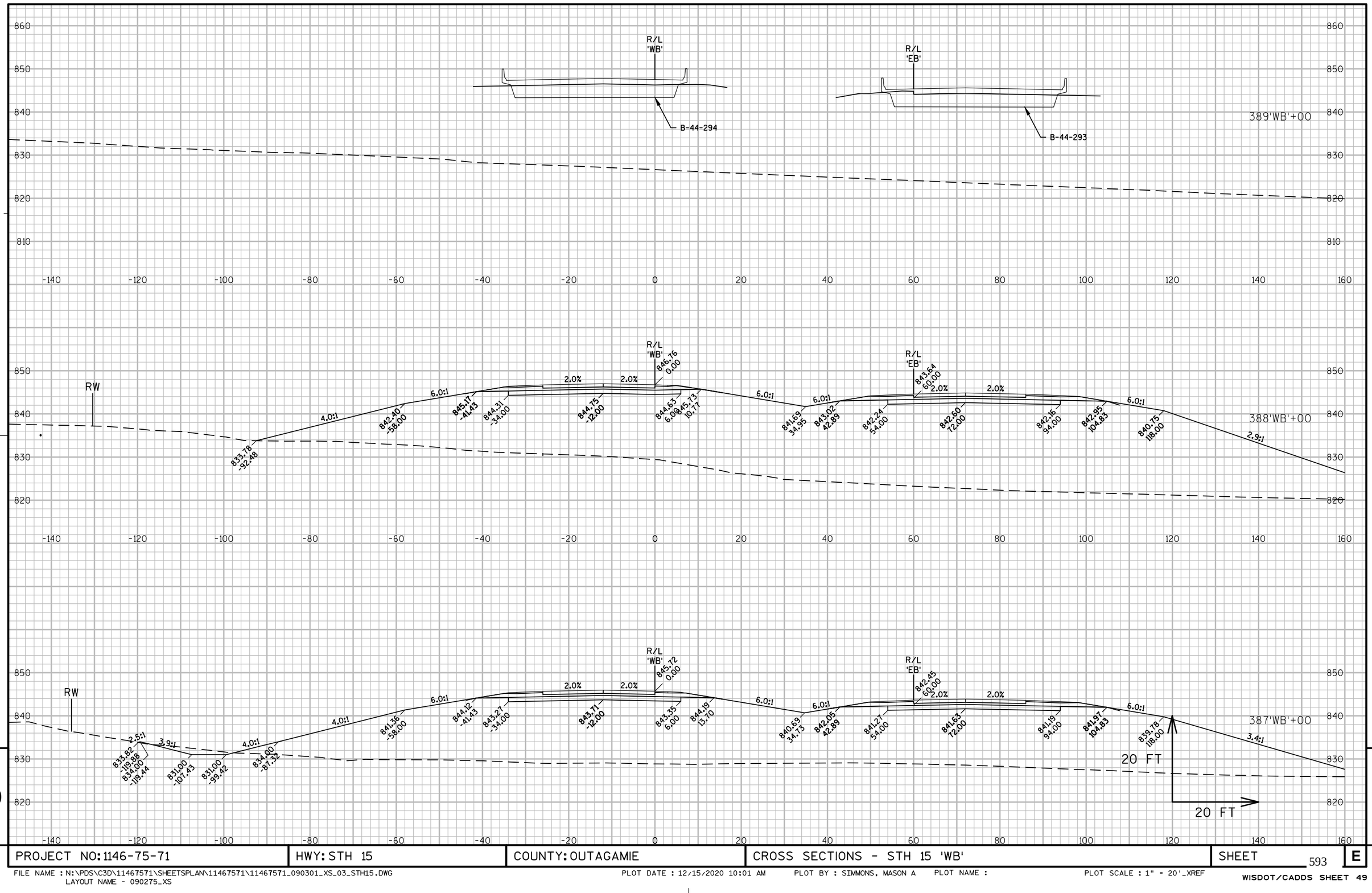


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 592	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090274_XS

PLOT DATE : 12/15/2020 10:01 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

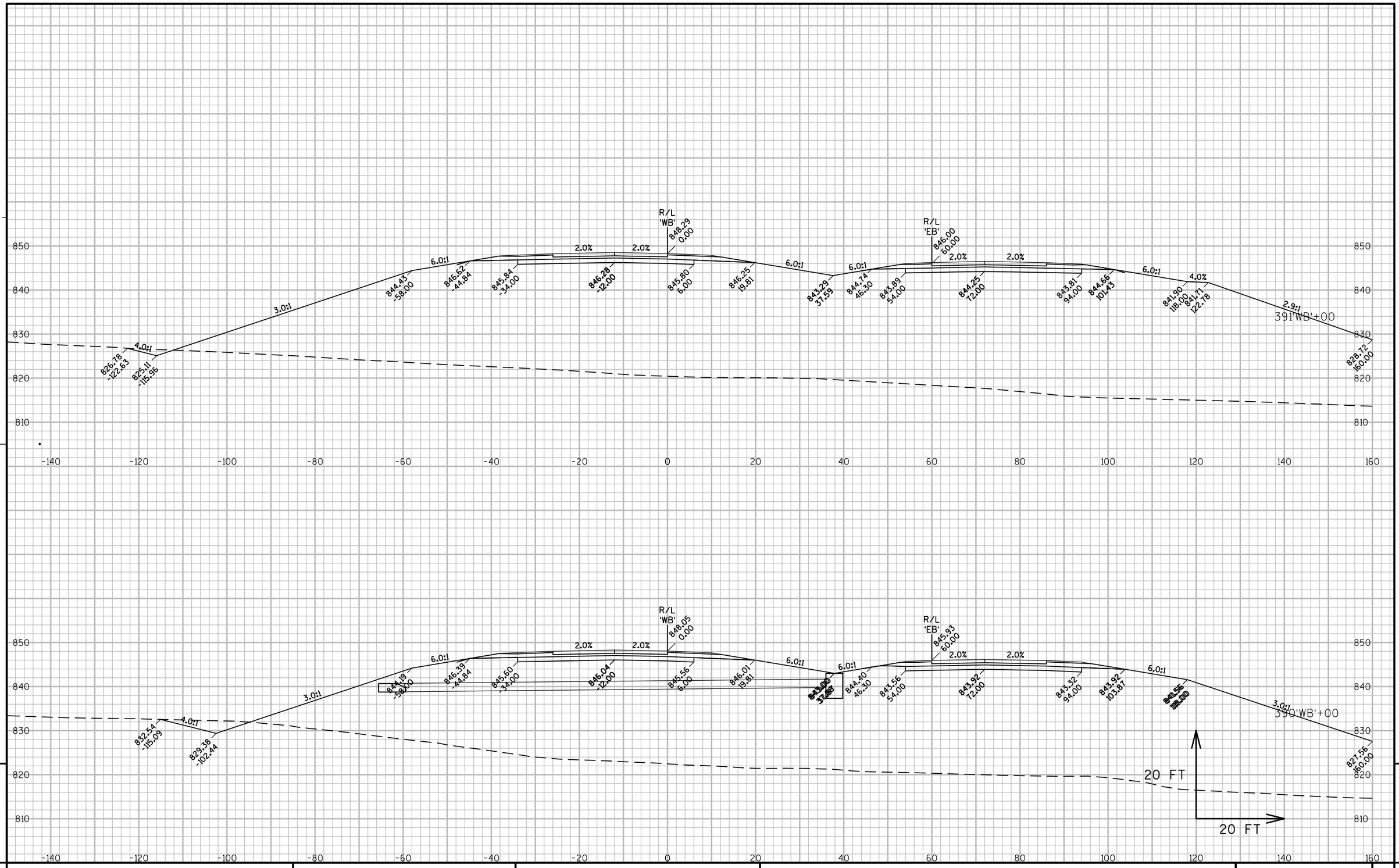
WISDOT/CADDS SHEET 49



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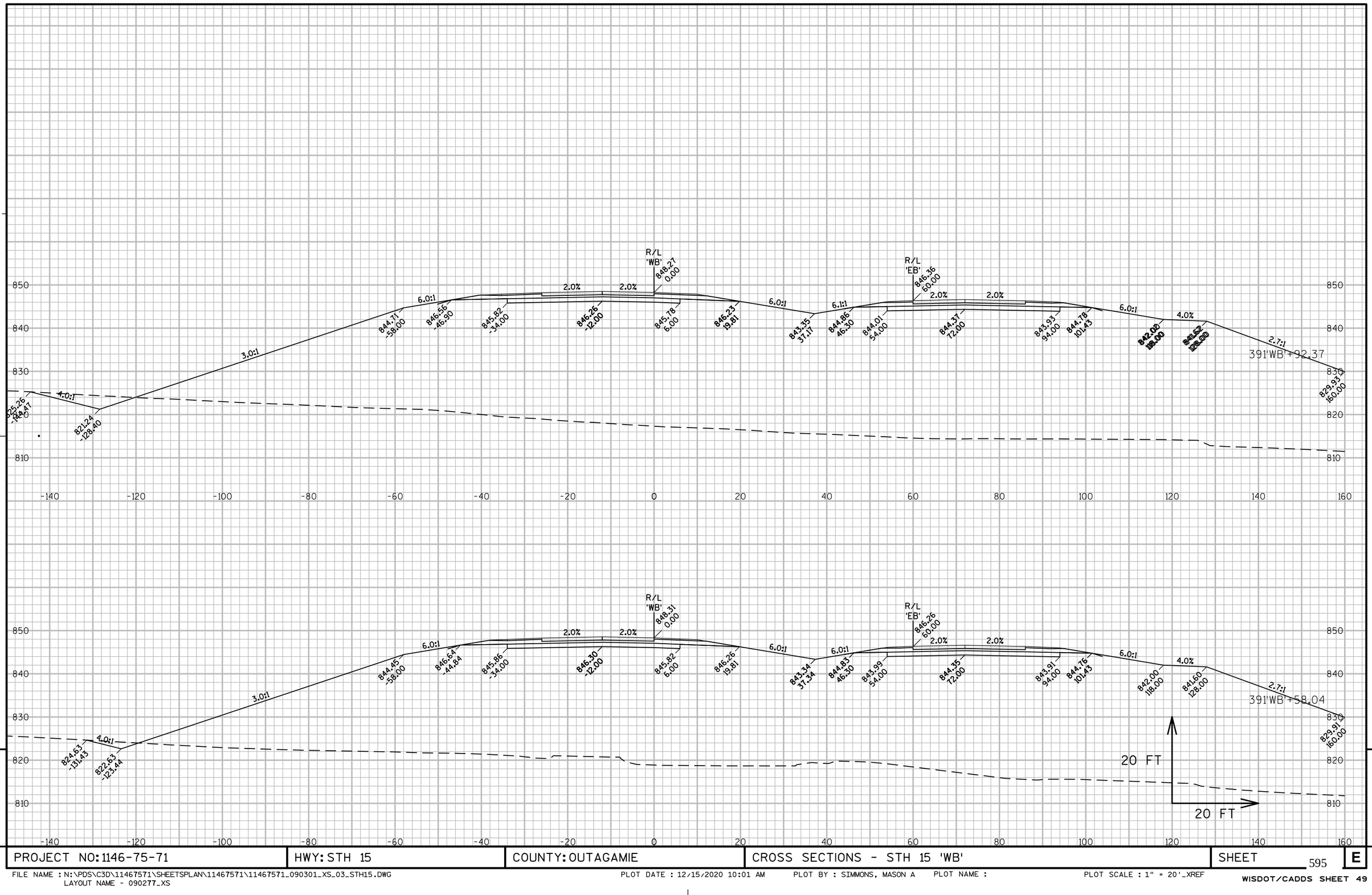
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 593	E



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 594	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090276_XS
PLOT DATE : 12/15/2020 10:01 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



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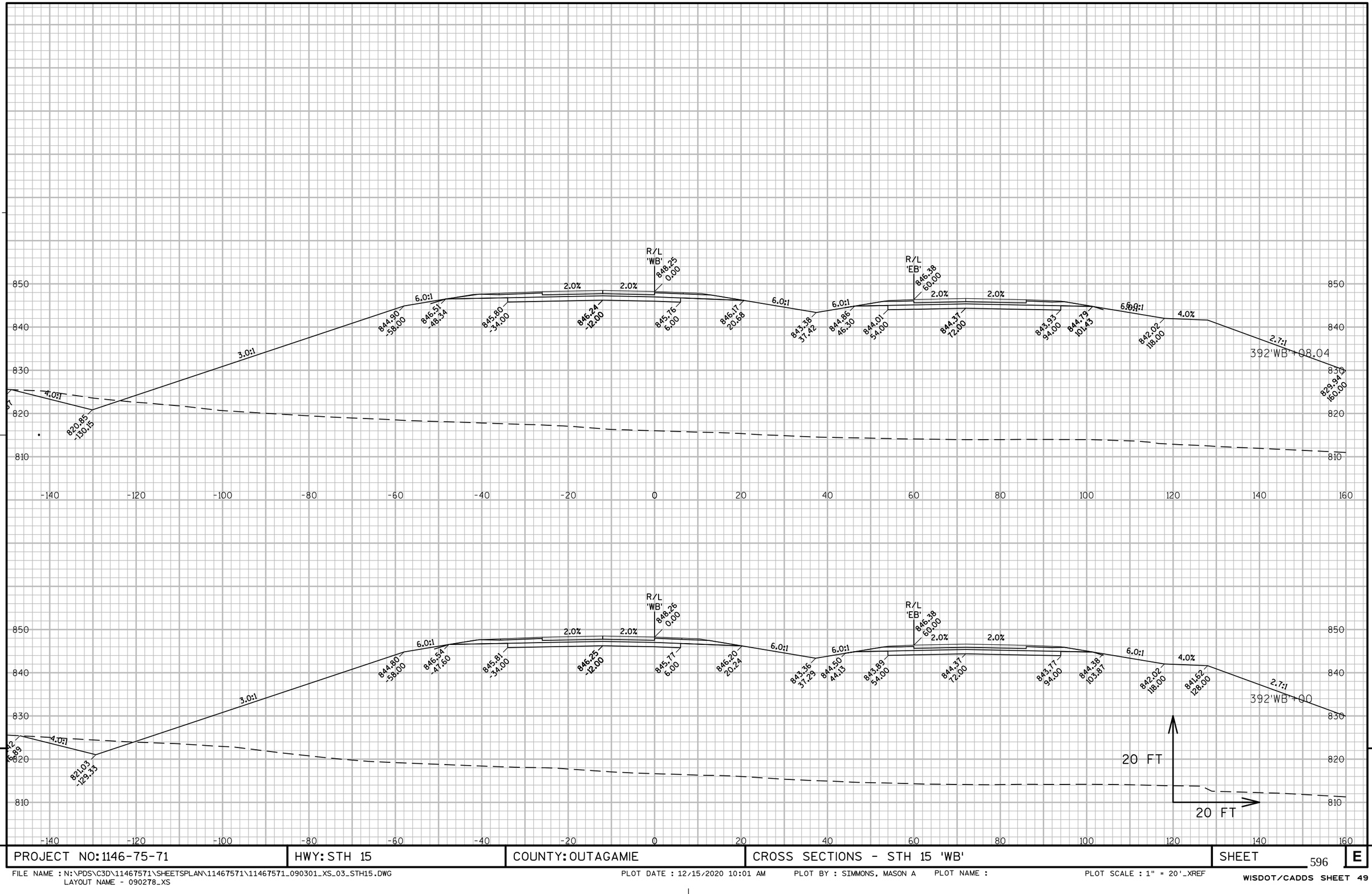
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 595	E

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FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090277_XS

PLOT DATE : 12/15/2020 10:01 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

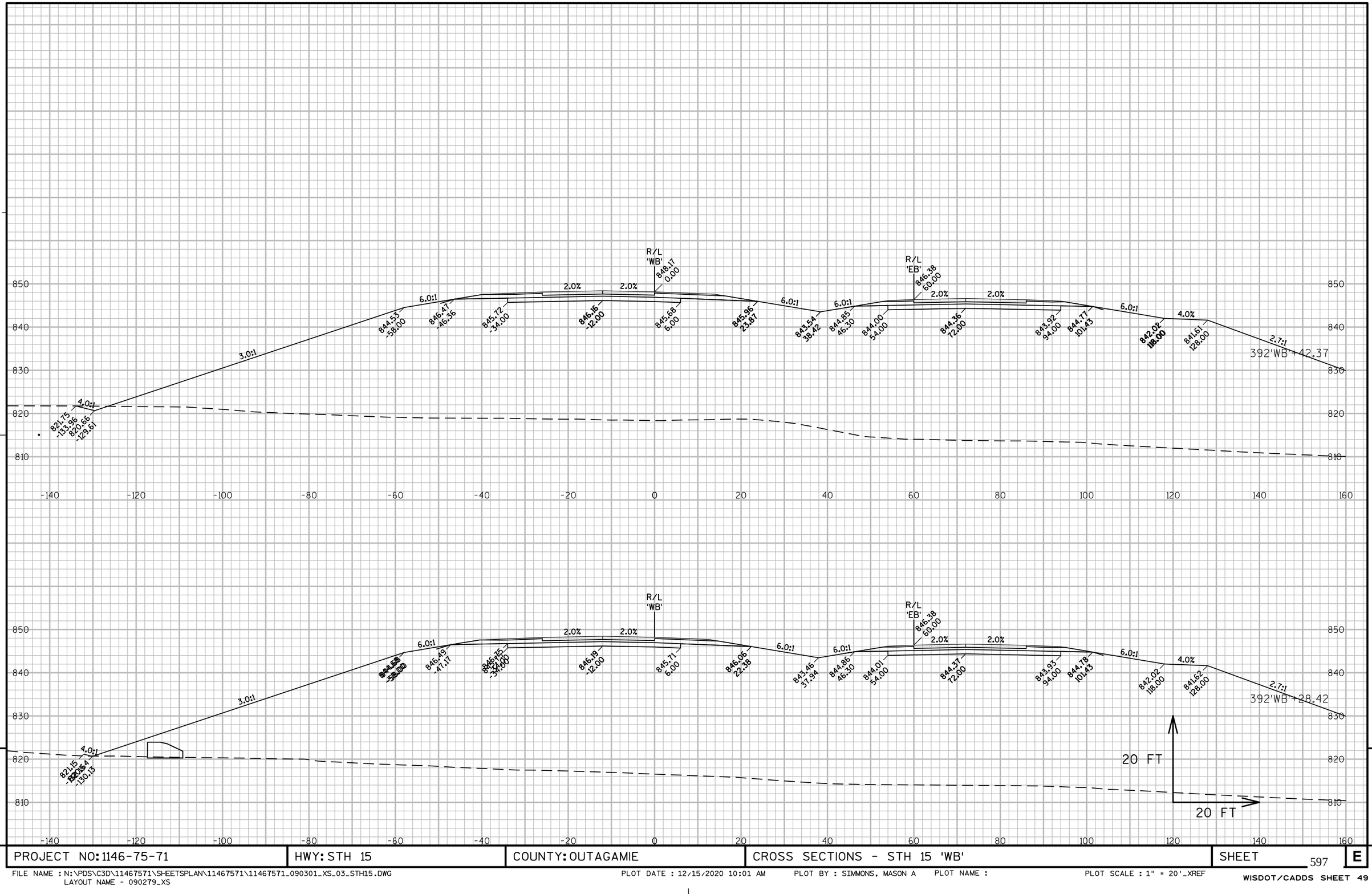


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 596	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090278_XS

PLOT DATE : 12/15/2020 10:01 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

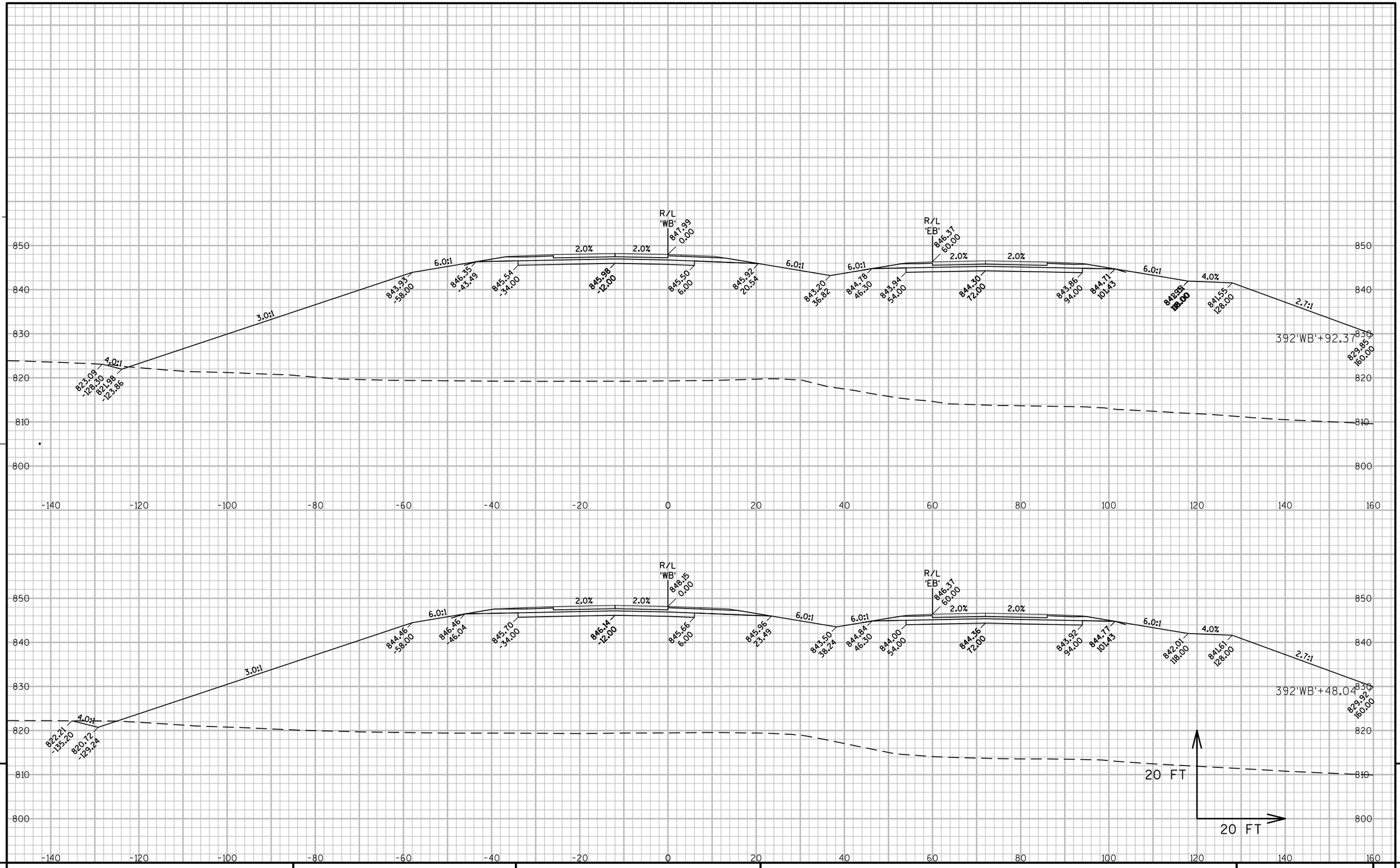


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 597	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090279_XS

PLOT DATE : 12/15/2020 10:01 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

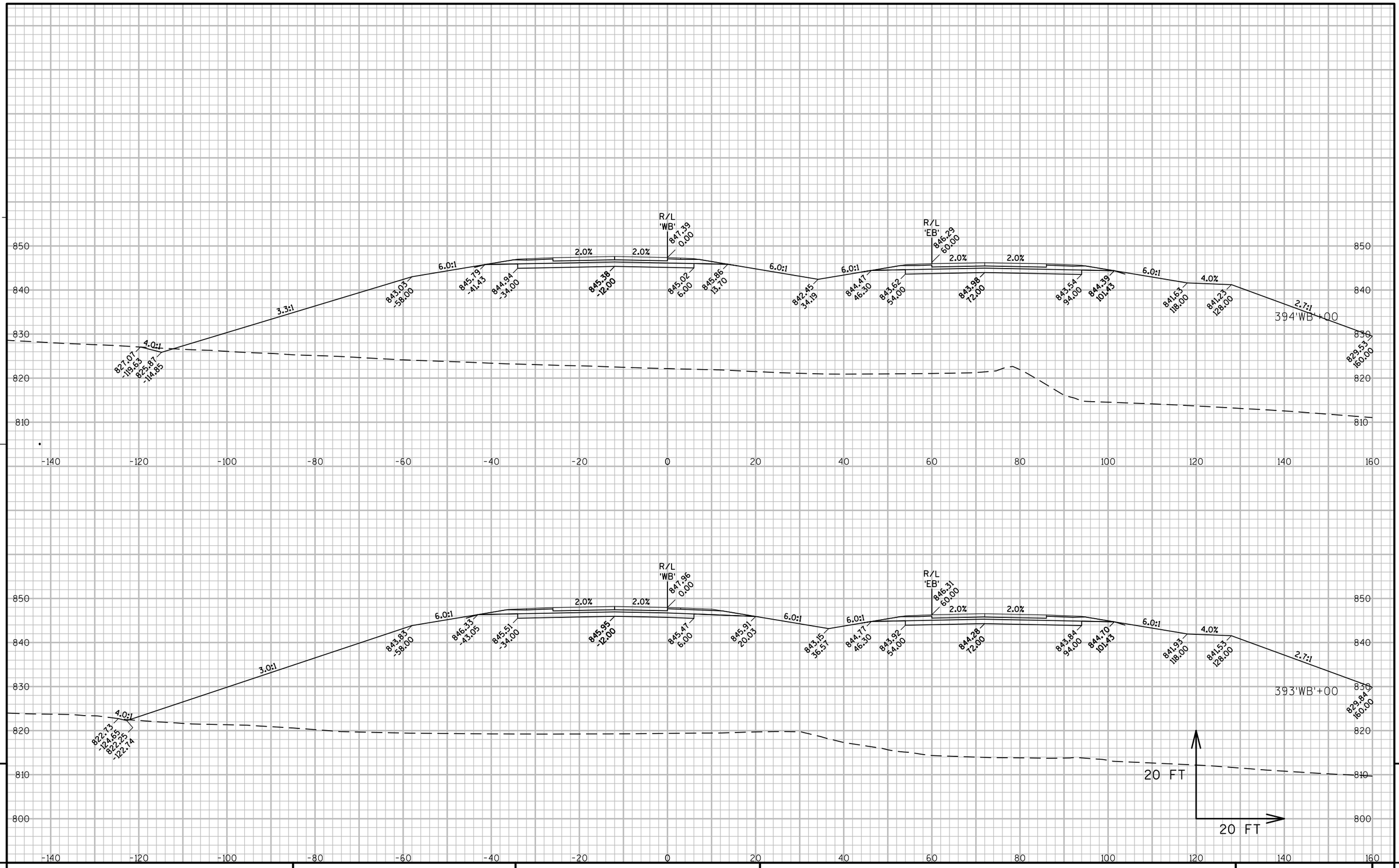


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 598 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090280_XS

PLOT DATE : 12/15/2020 10:01 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

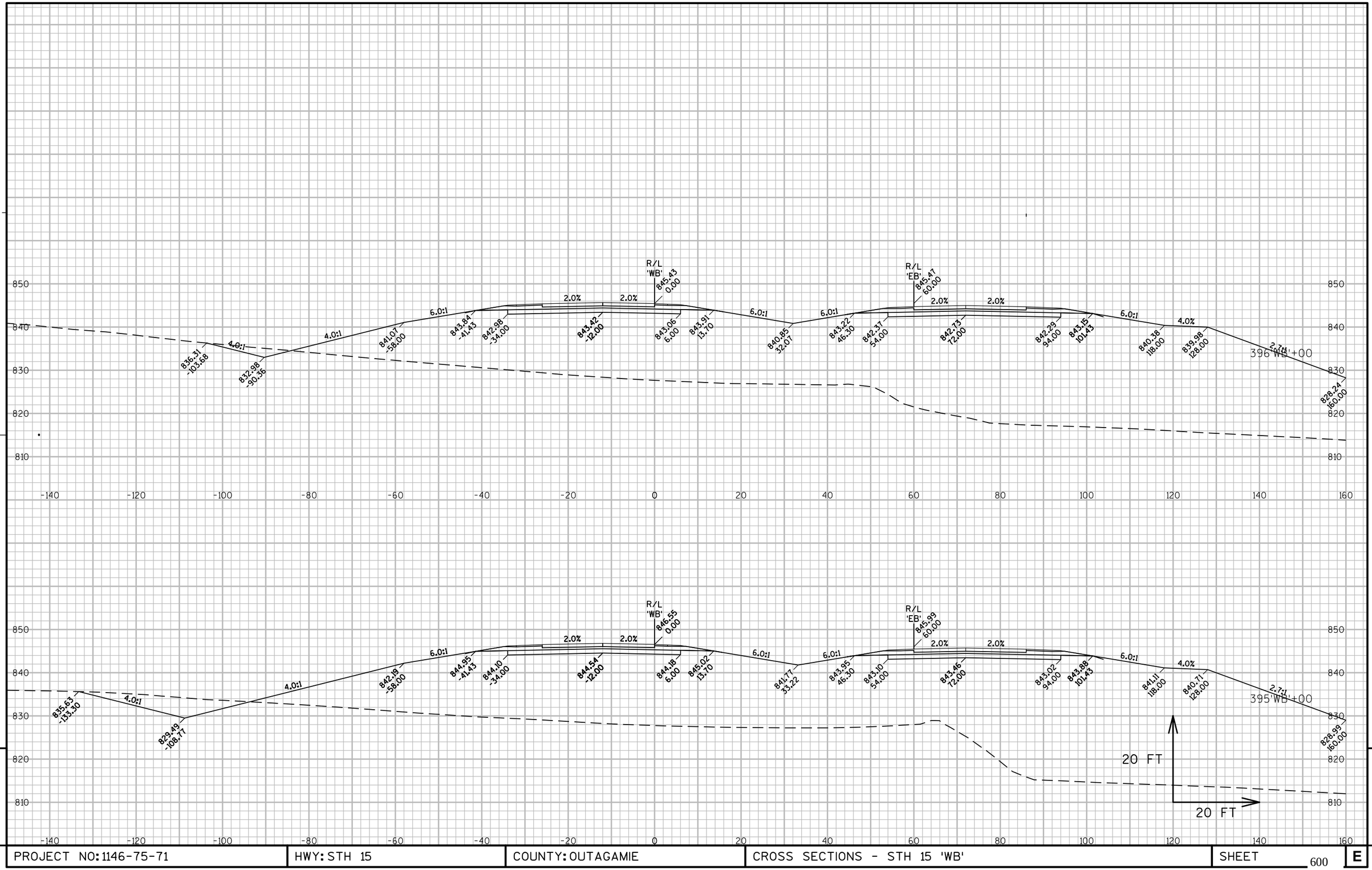


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 599 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090281_XS

PLOT DATE : 12/15/2020 10:01 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

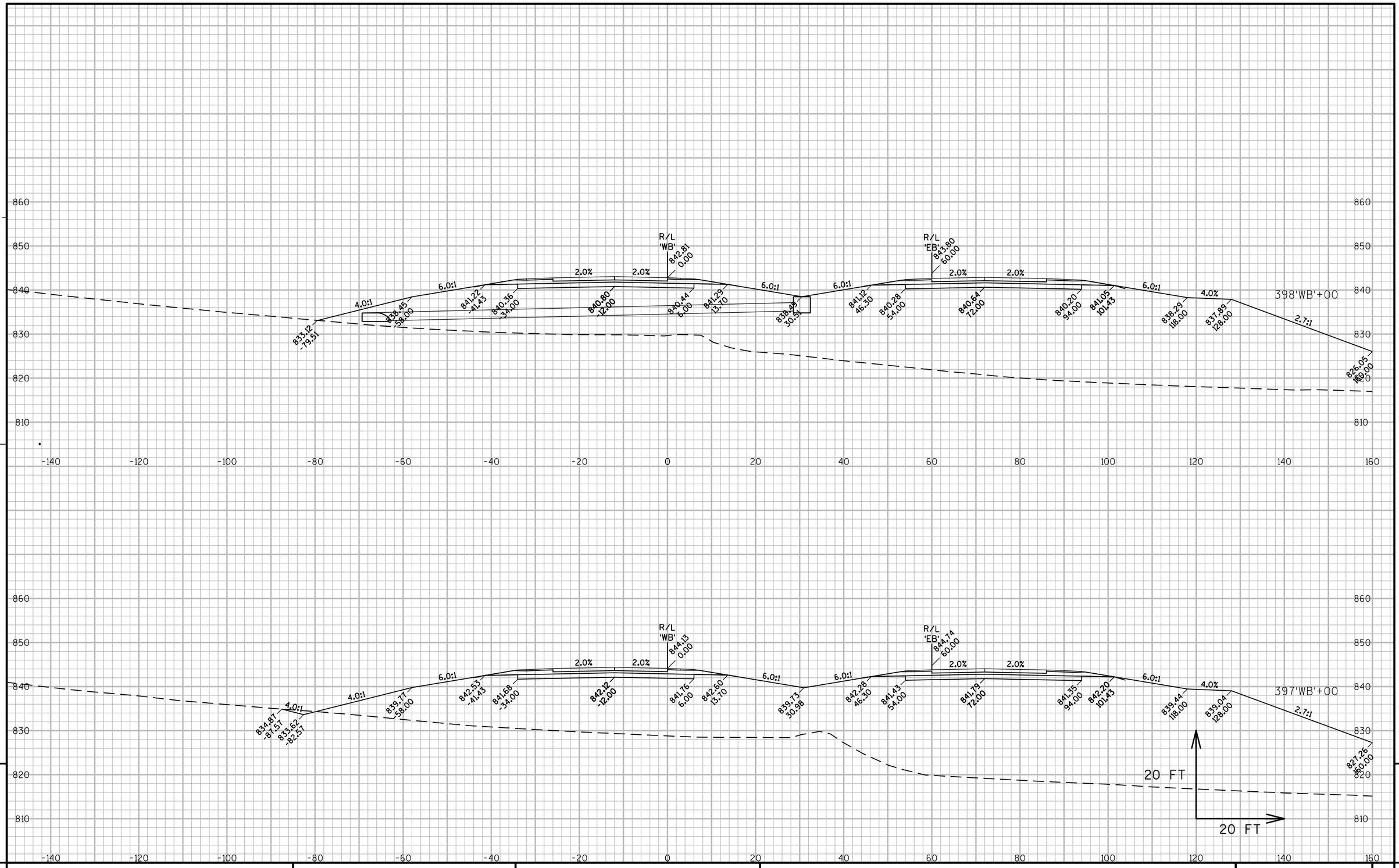


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 600	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090282_XS

PLOT DATE : 12/15/2020 10:02 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

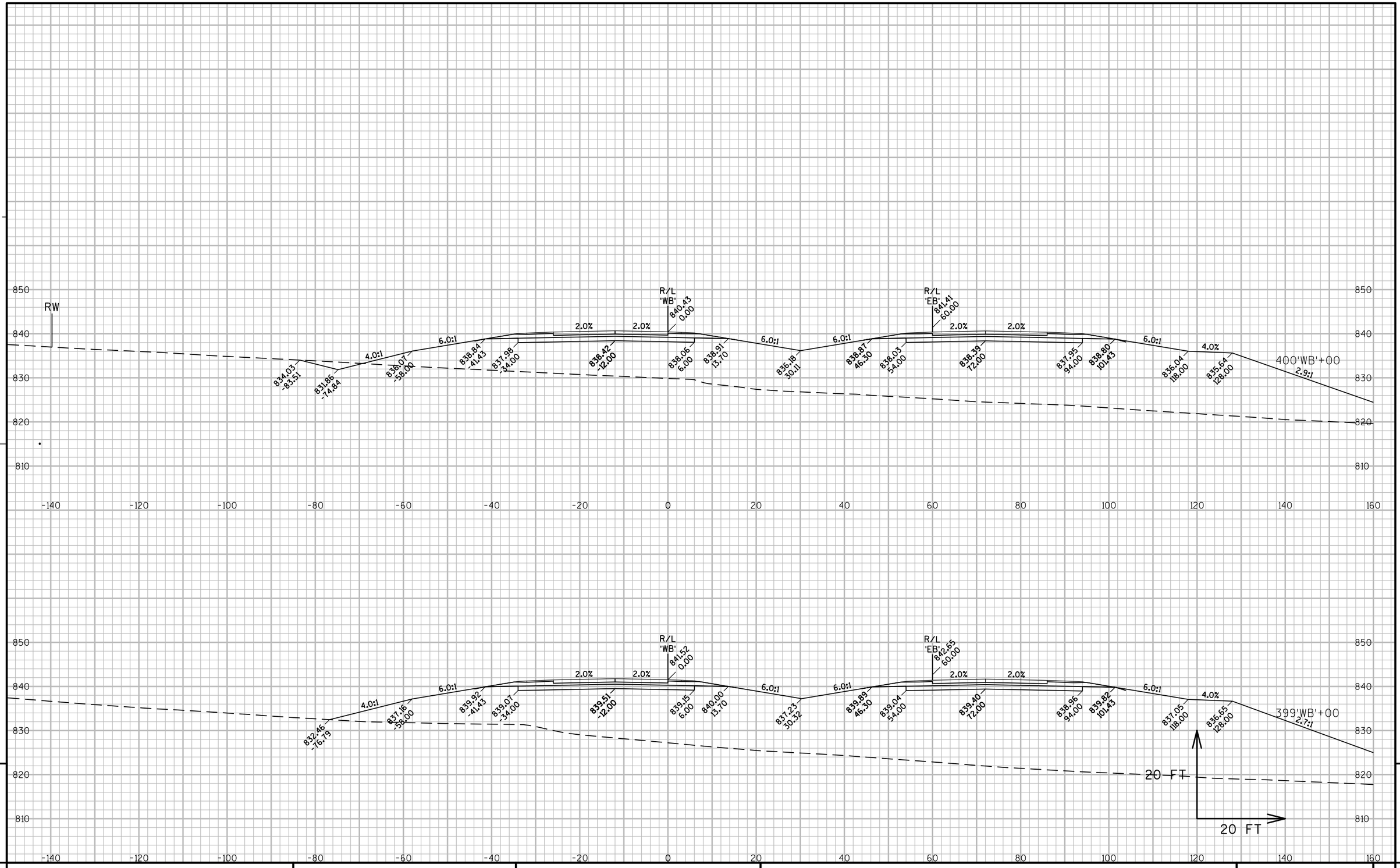


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 601	E

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LAYOUT NAME - 090283_XS

PLOT DATE : 12/15/2020 10:02 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

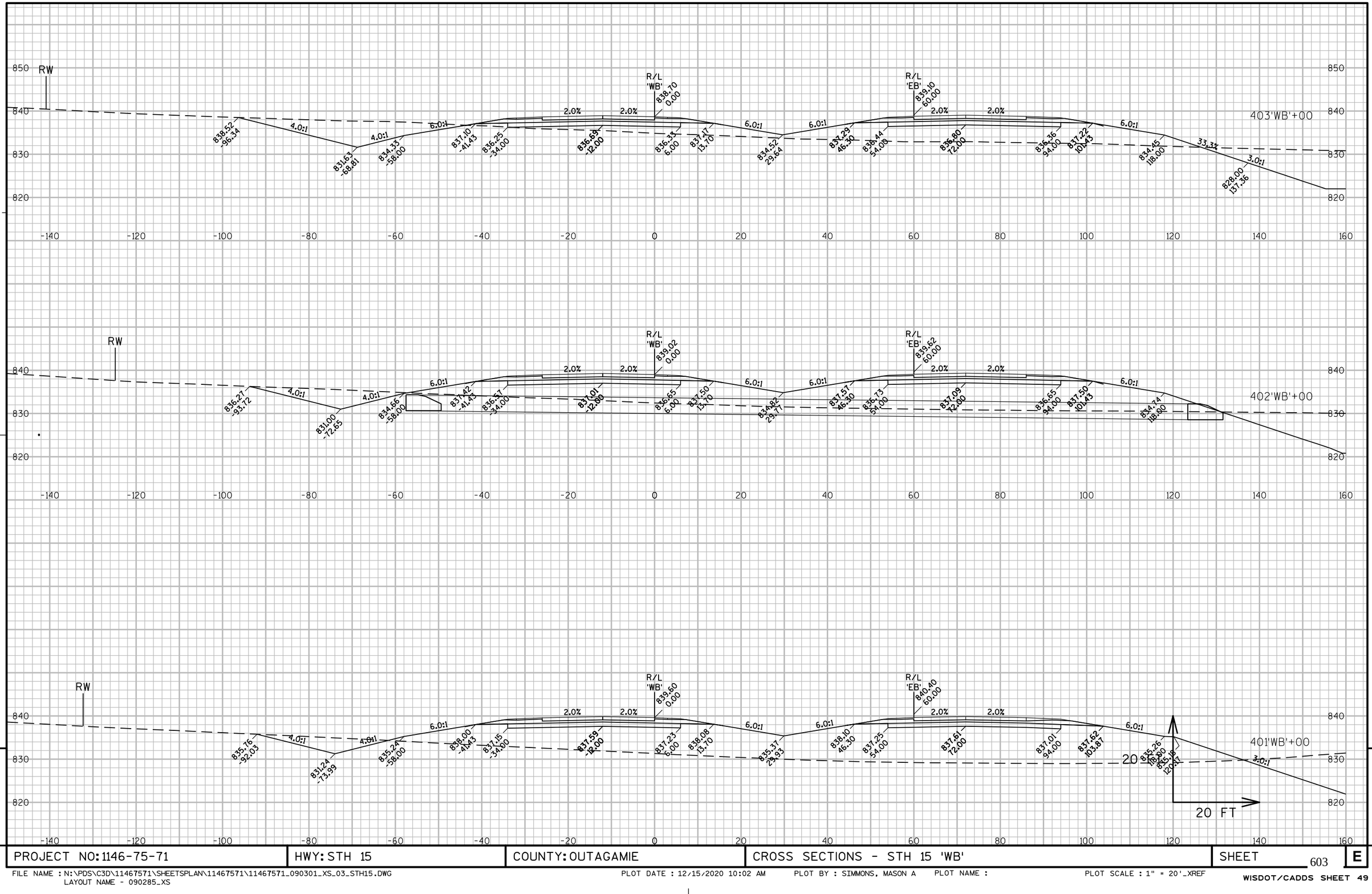


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 602 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090284_XS

PLOT DATE : 12/15/2020 10:02 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

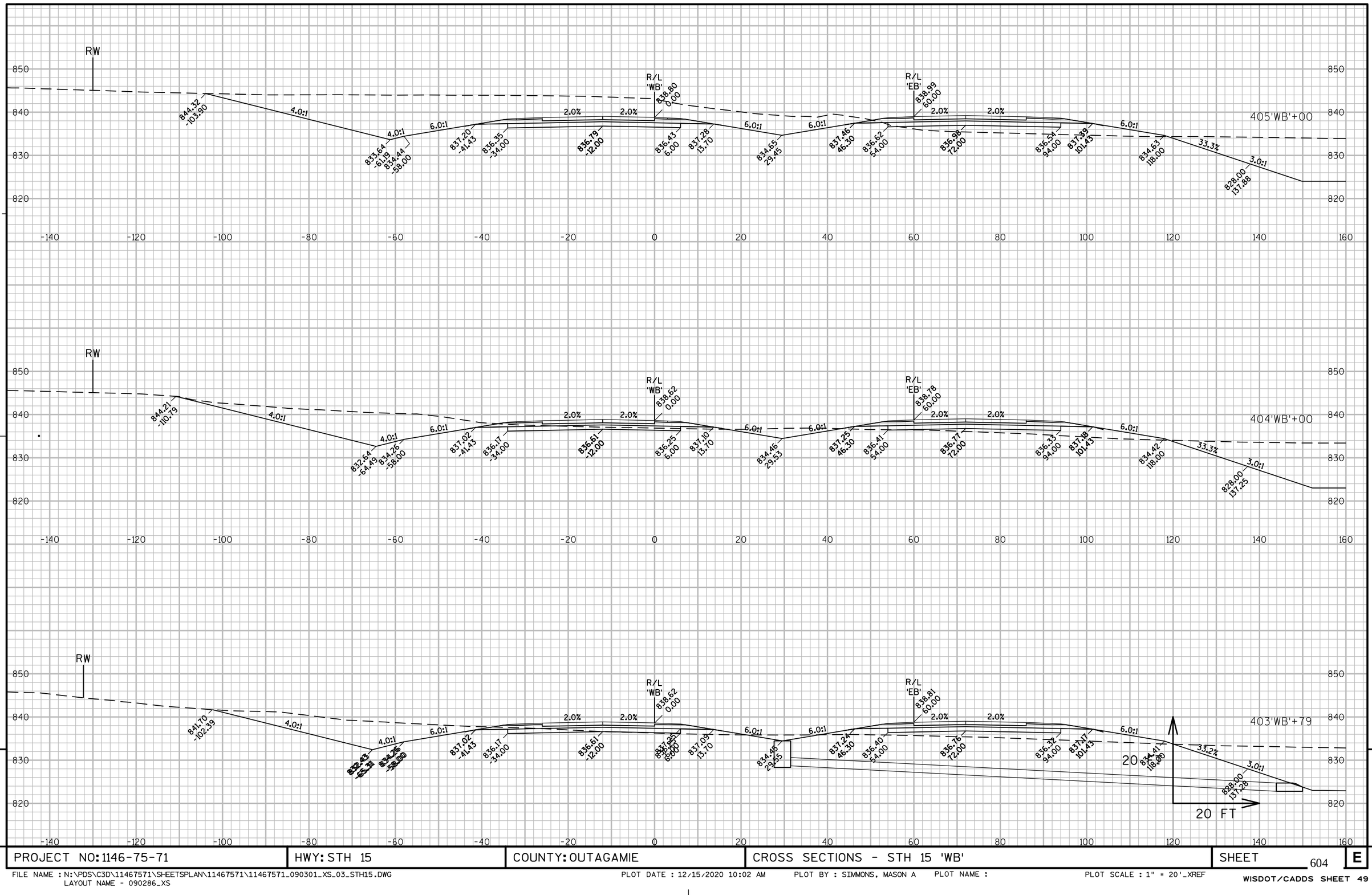


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 603	E

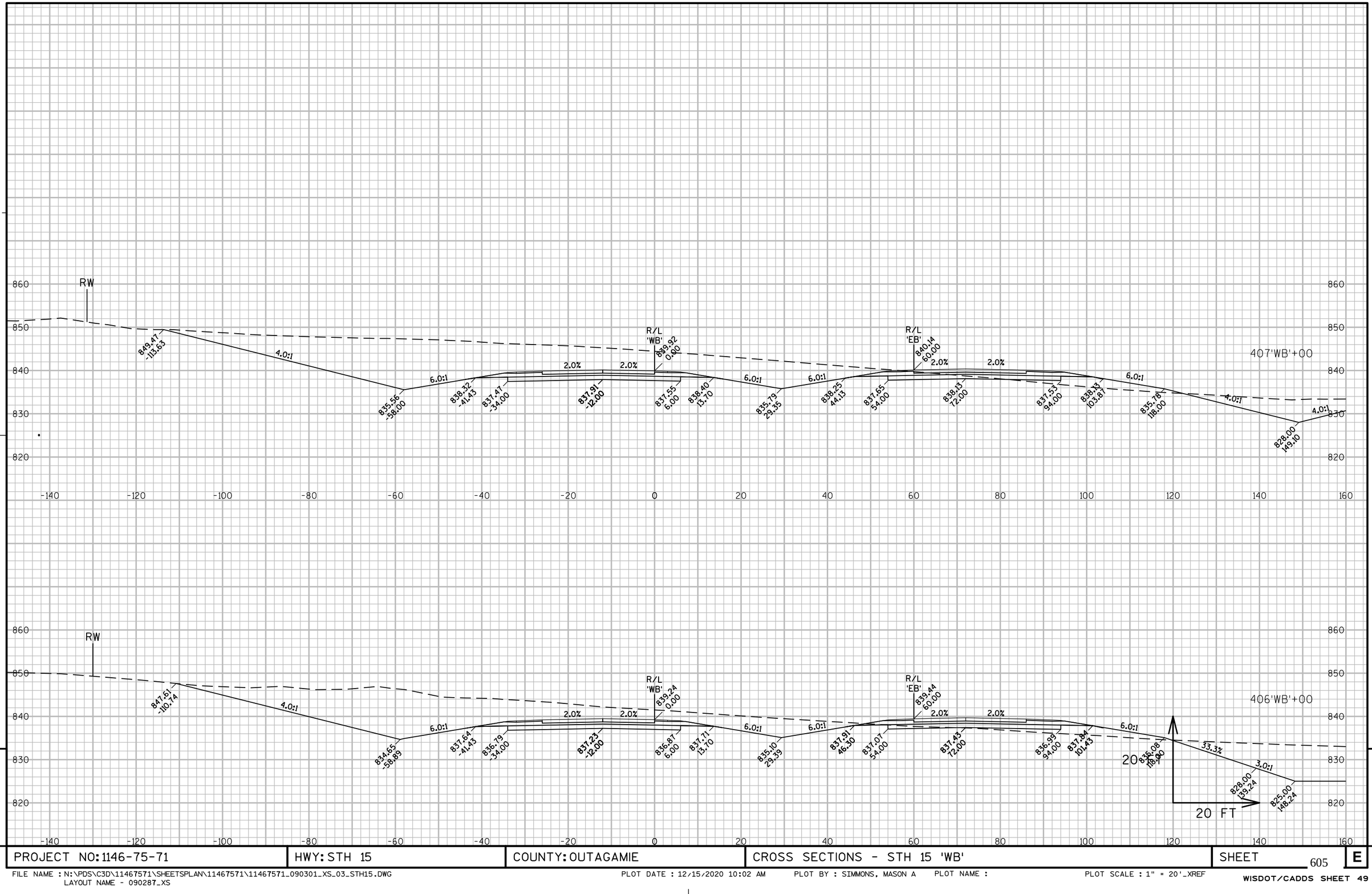
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LAYOUT NAME - 090285_XS

PLOT DATE : 12/15/2020 10:02 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 604	E



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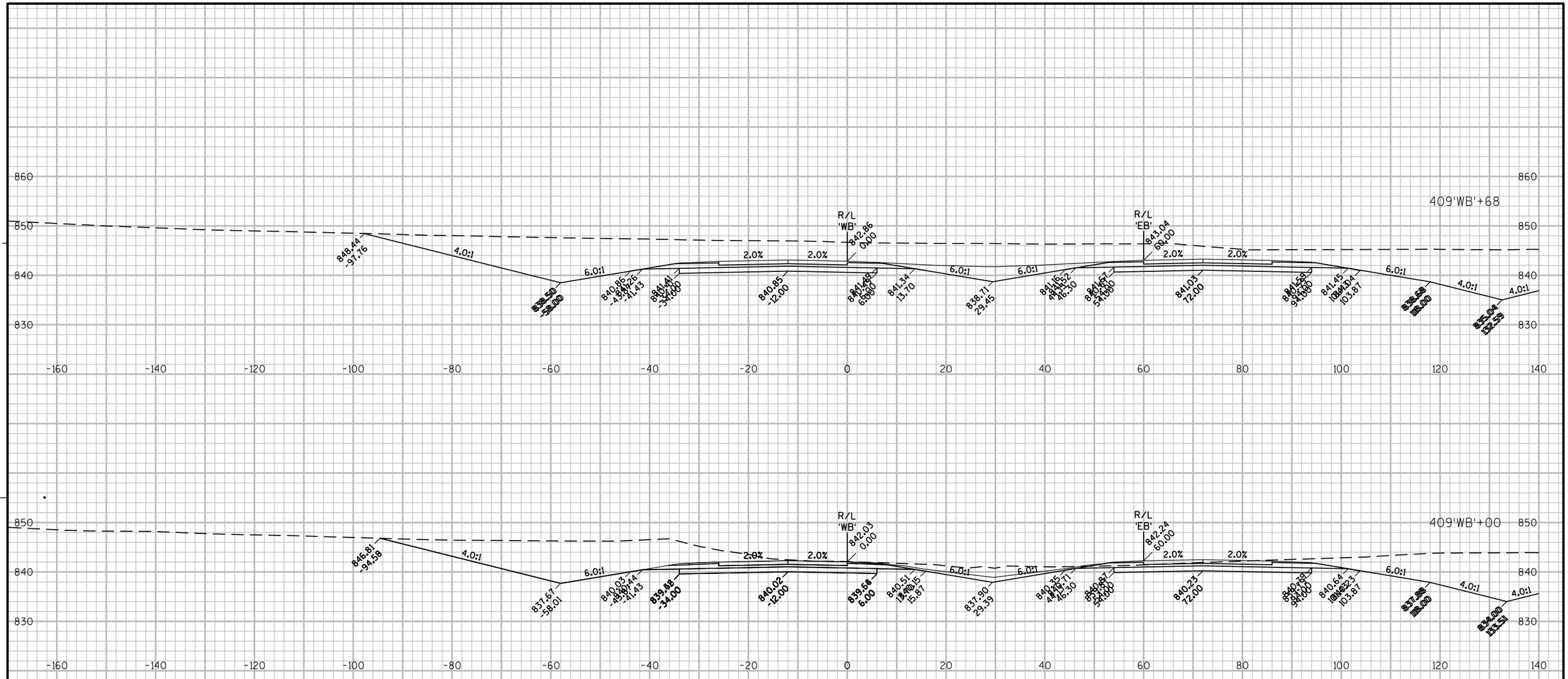
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 605	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090287_XS

PLOT DATE : 12/15/2020 10:02 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

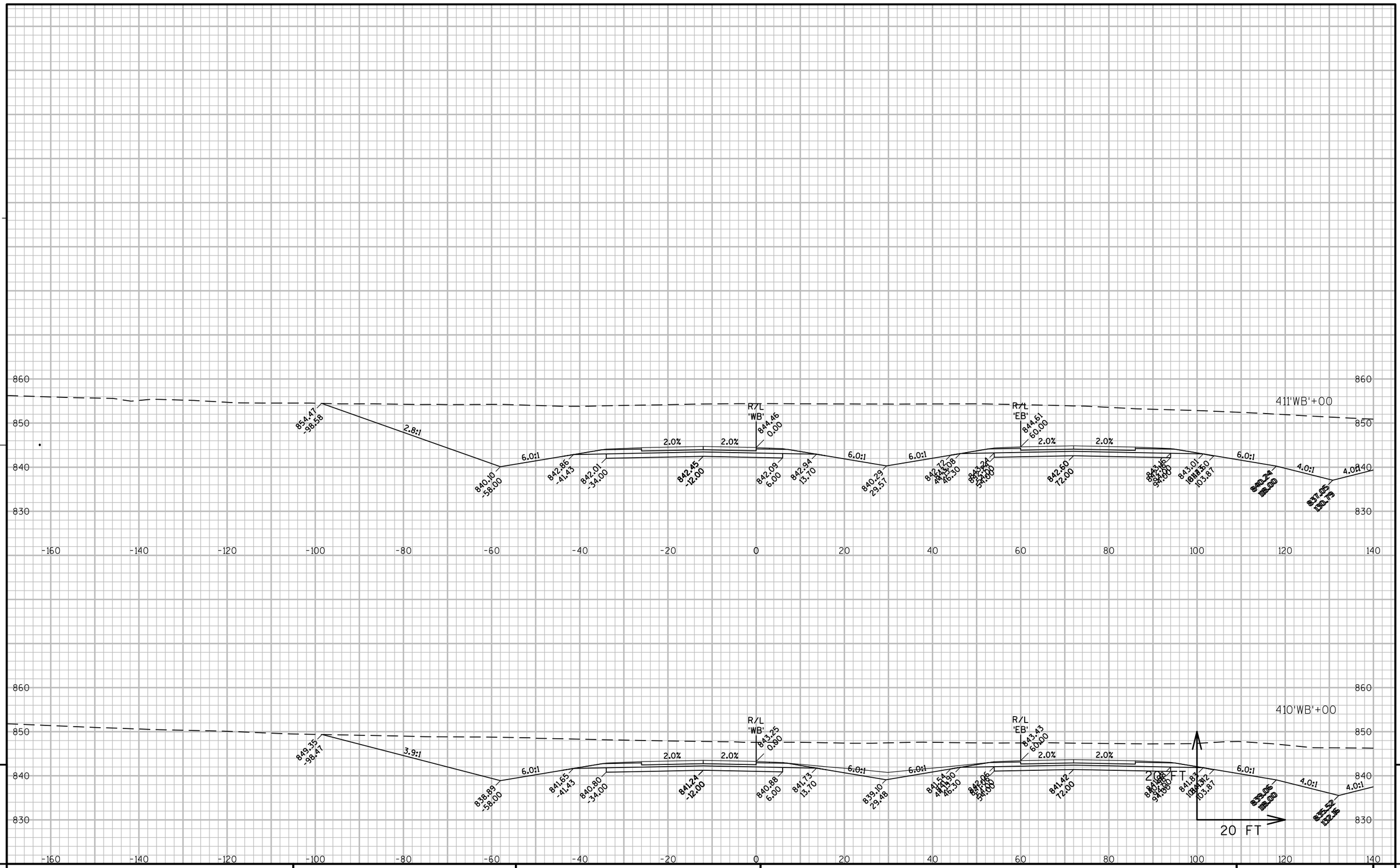


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 606	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090389_XS

PLOT DATE : 12/15/2020 10:14 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

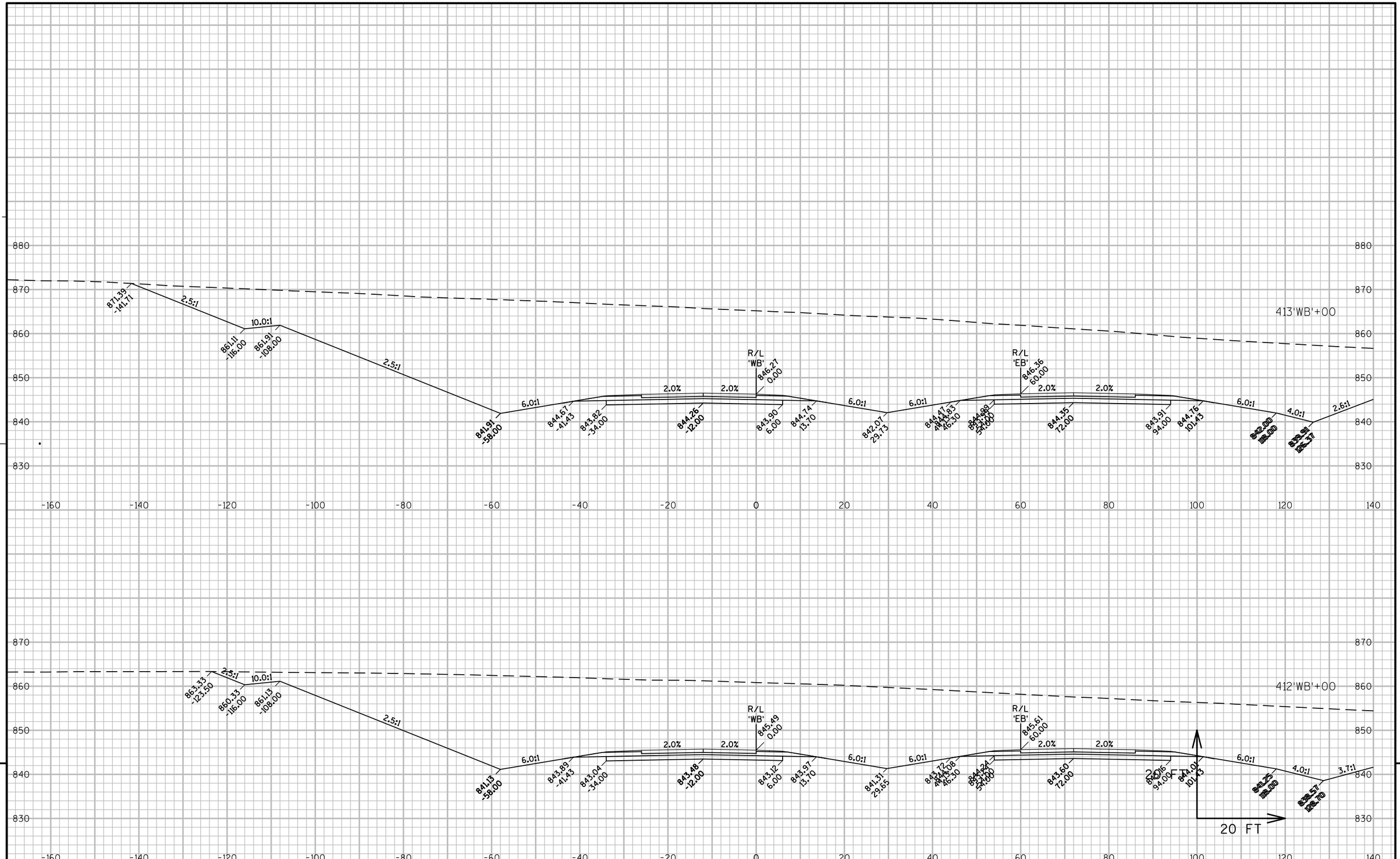


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 607	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090390_XS

PLOT DATE : 12/15/2020 10:14 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

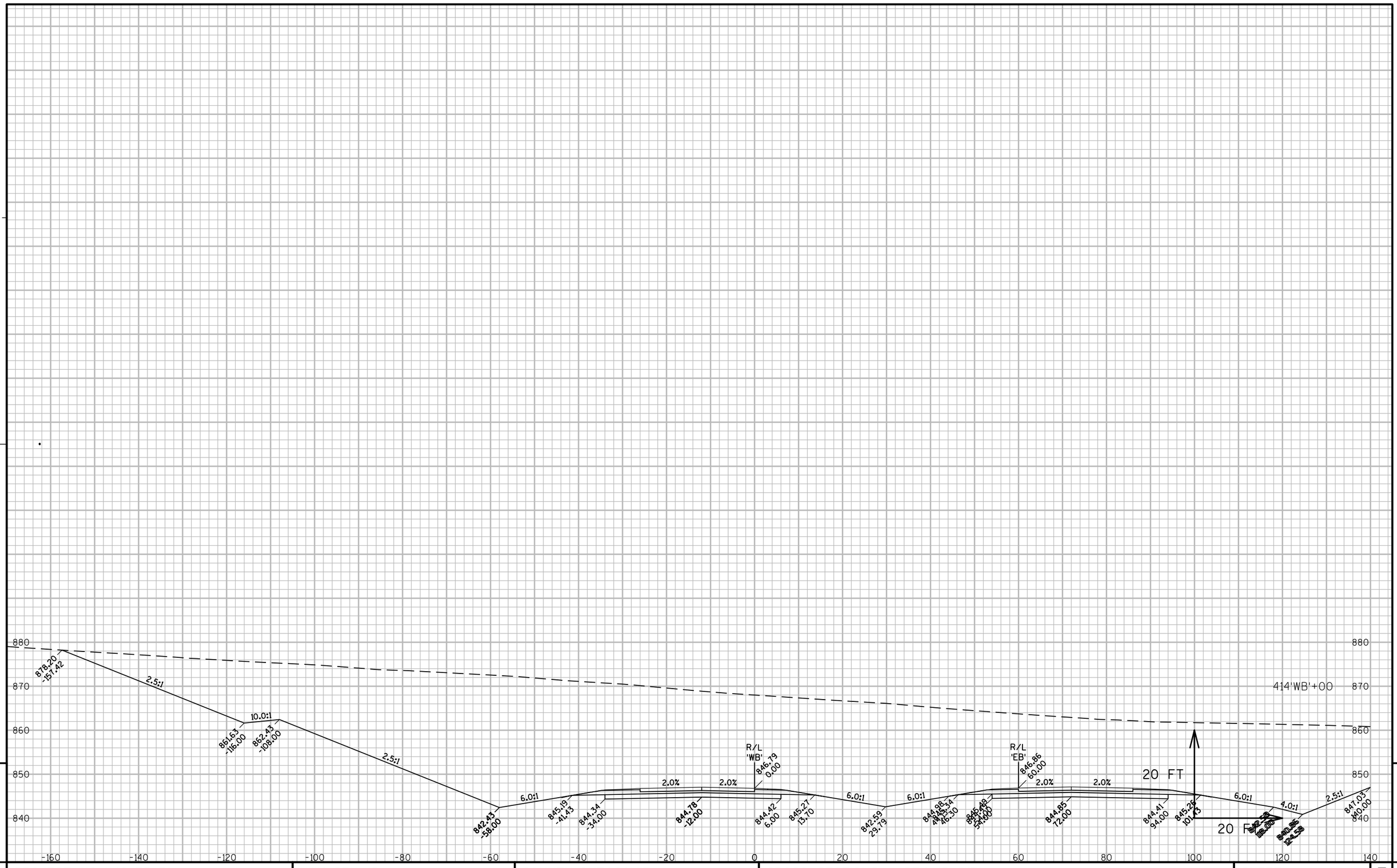


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 608	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090391_XS

PLOT DATE : 12/15/2020 10:15 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

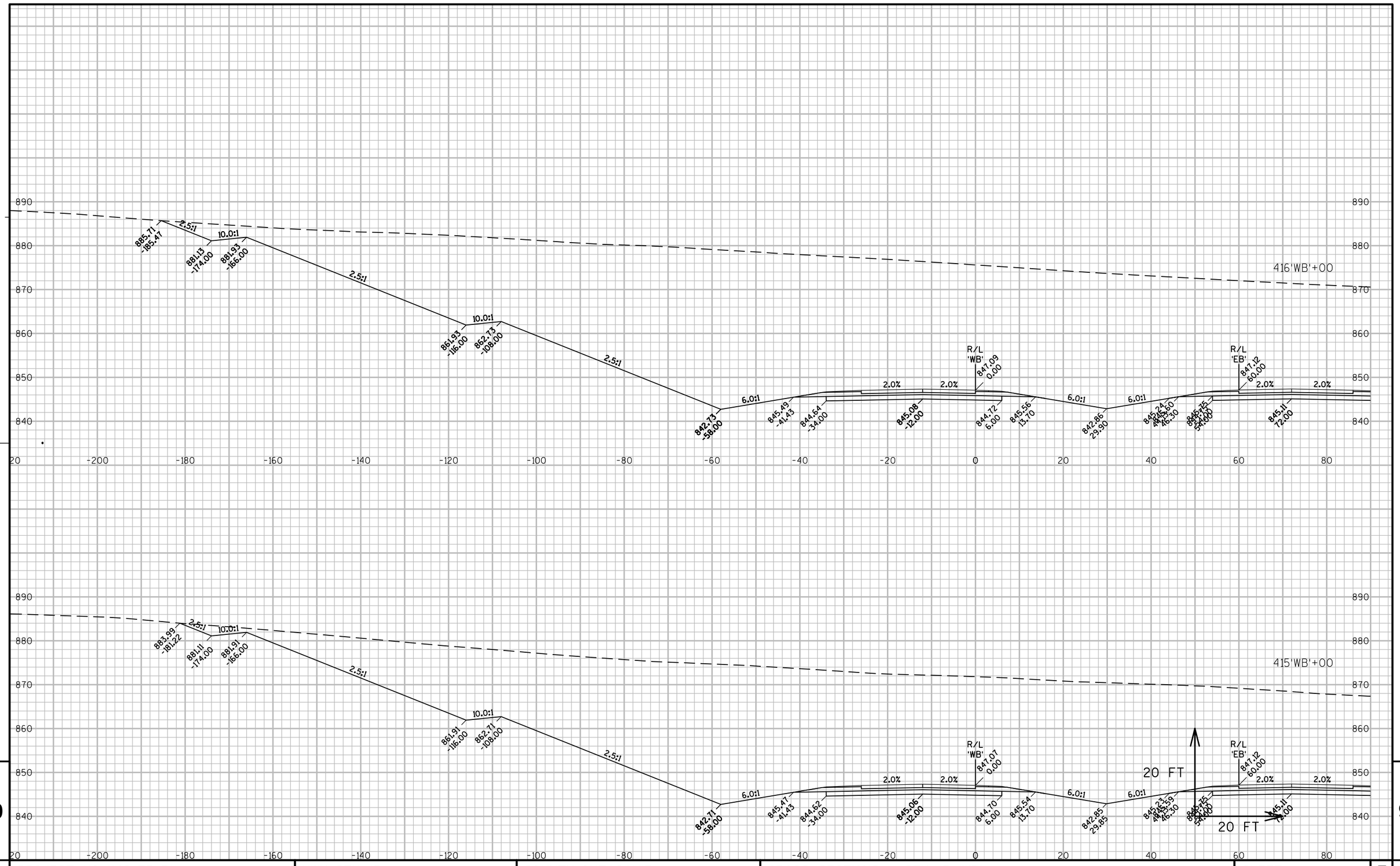
WISDOT/CADDS SHEET 49



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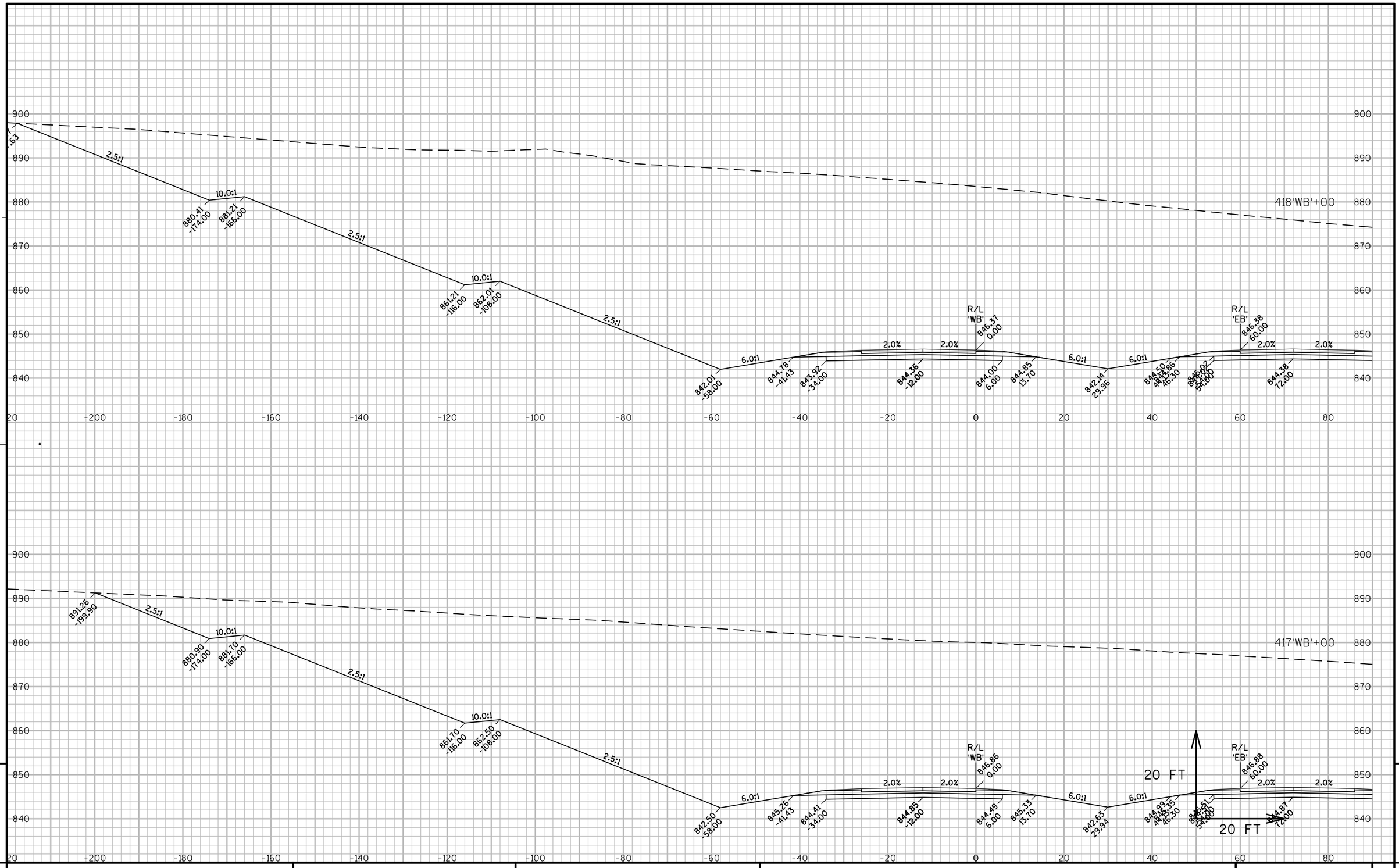
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 609	E



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 610	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090393_XS

PLOT DATE : 12/15/2020 10:16 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

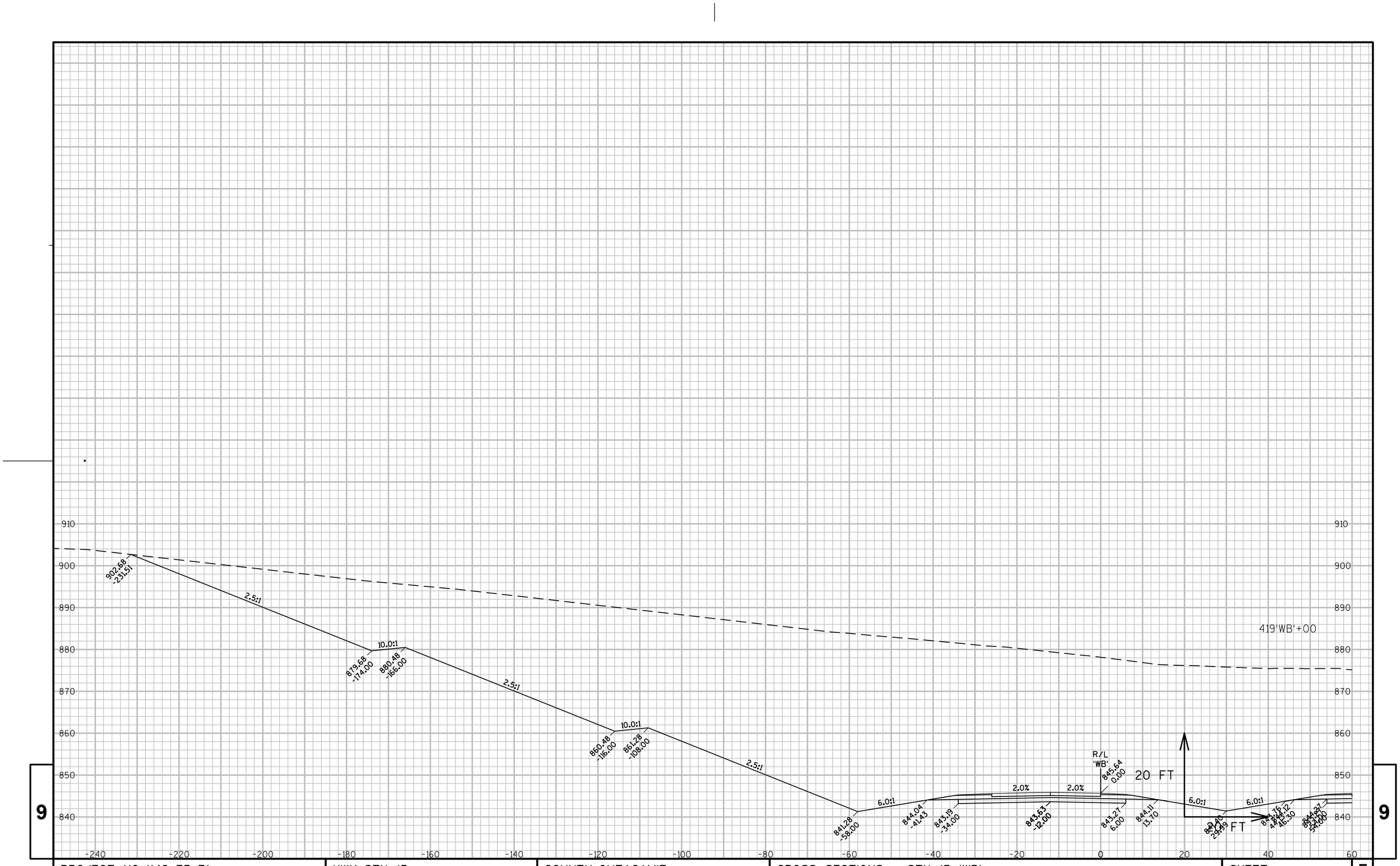


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 611	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090394_XS

PLOT DATE : 12/15/2020 10:16 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



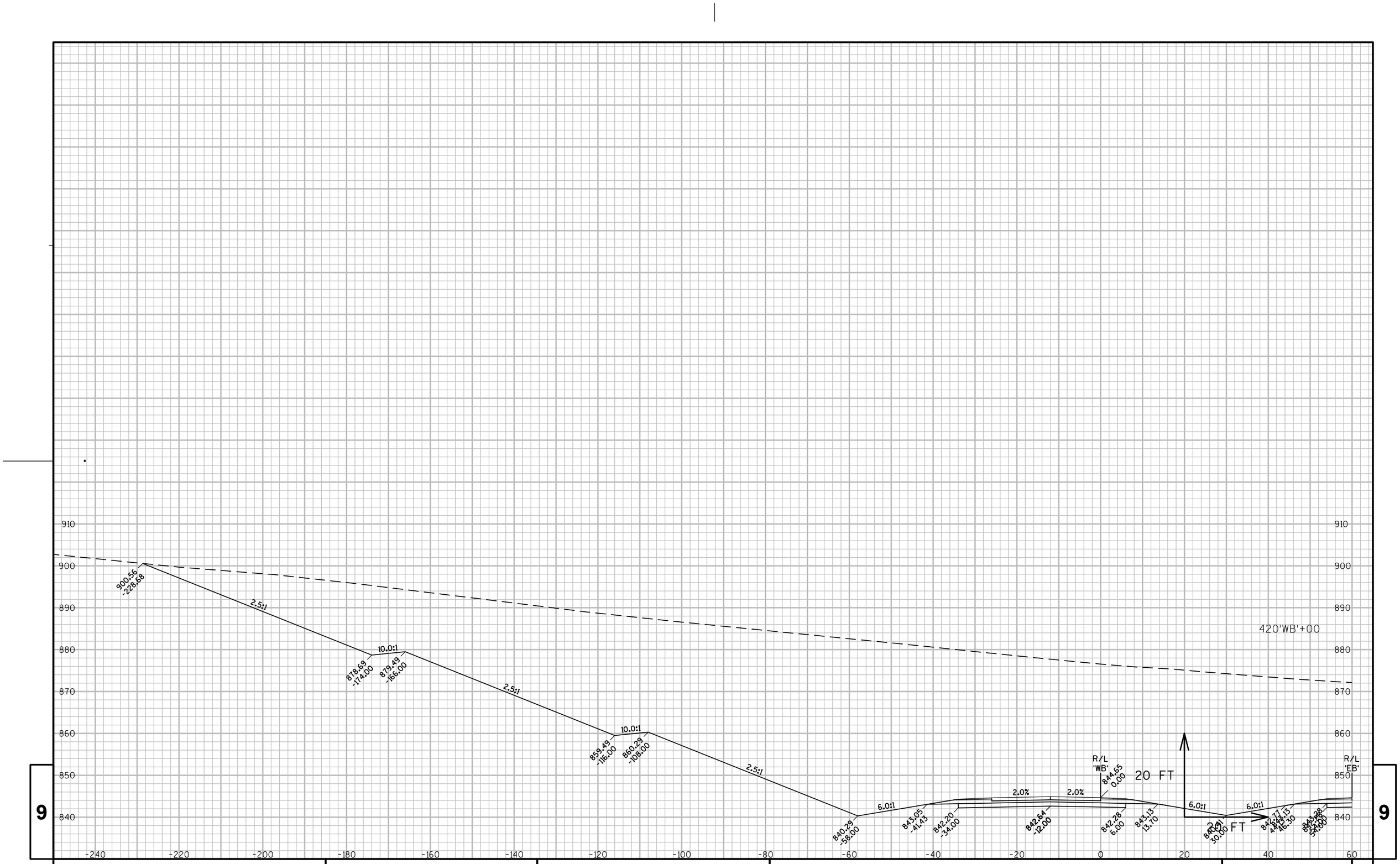
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 612	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090395_XS

PLOT DATE : 12/15/2020 10:17 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



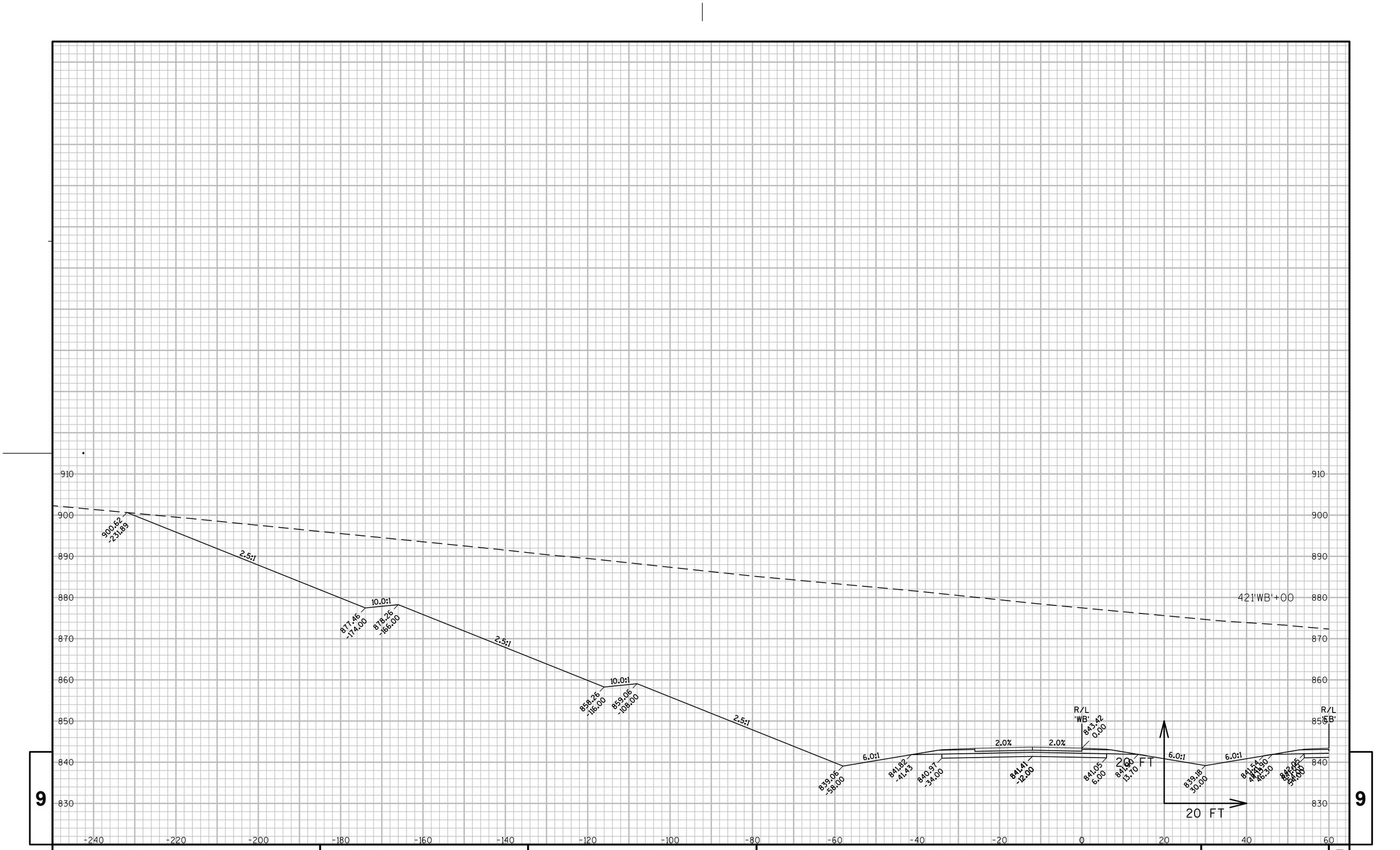
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 613	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090396_XS

PLOT DATE : 12/15/2020 10:17 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



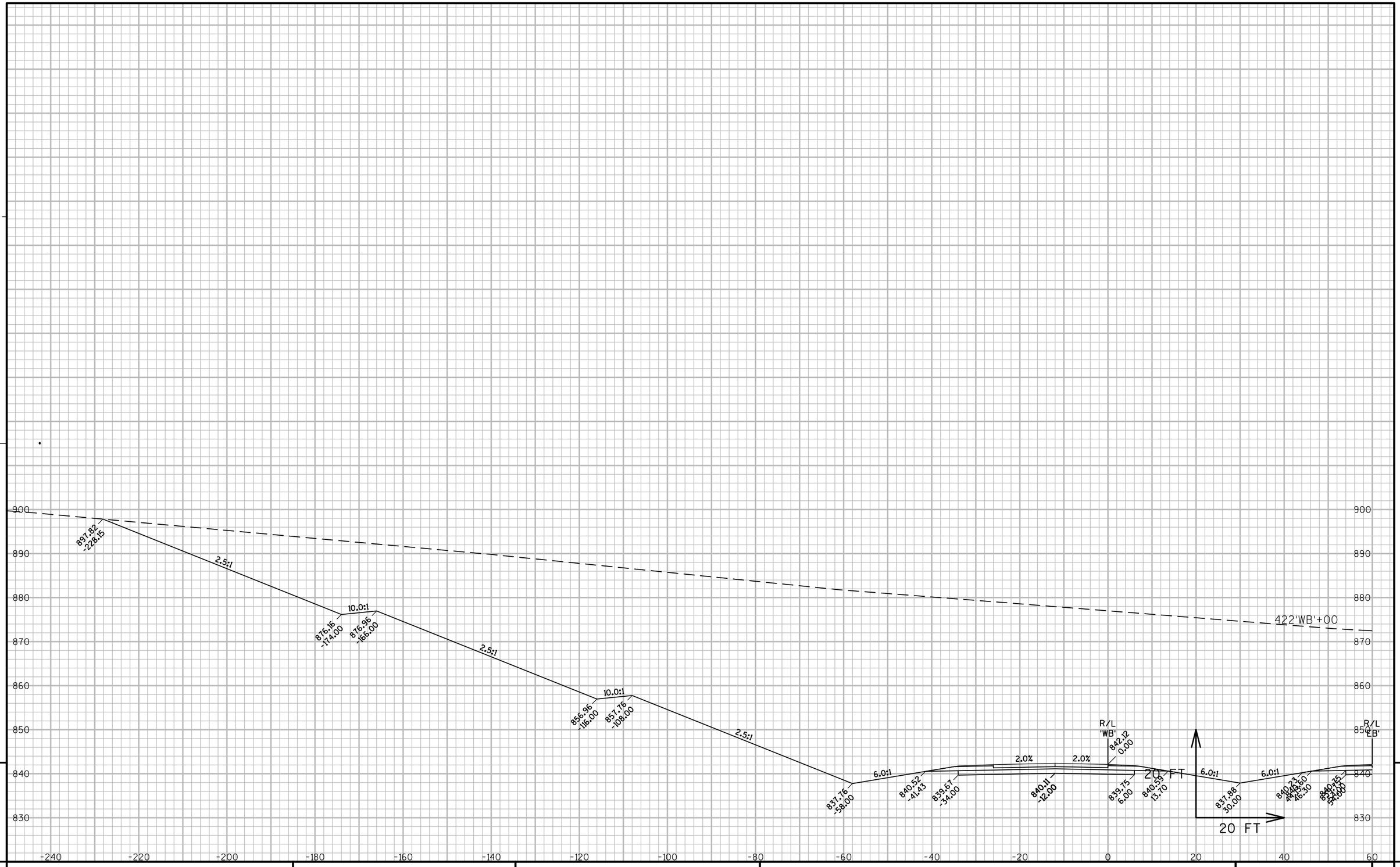
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 614	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090397_XS

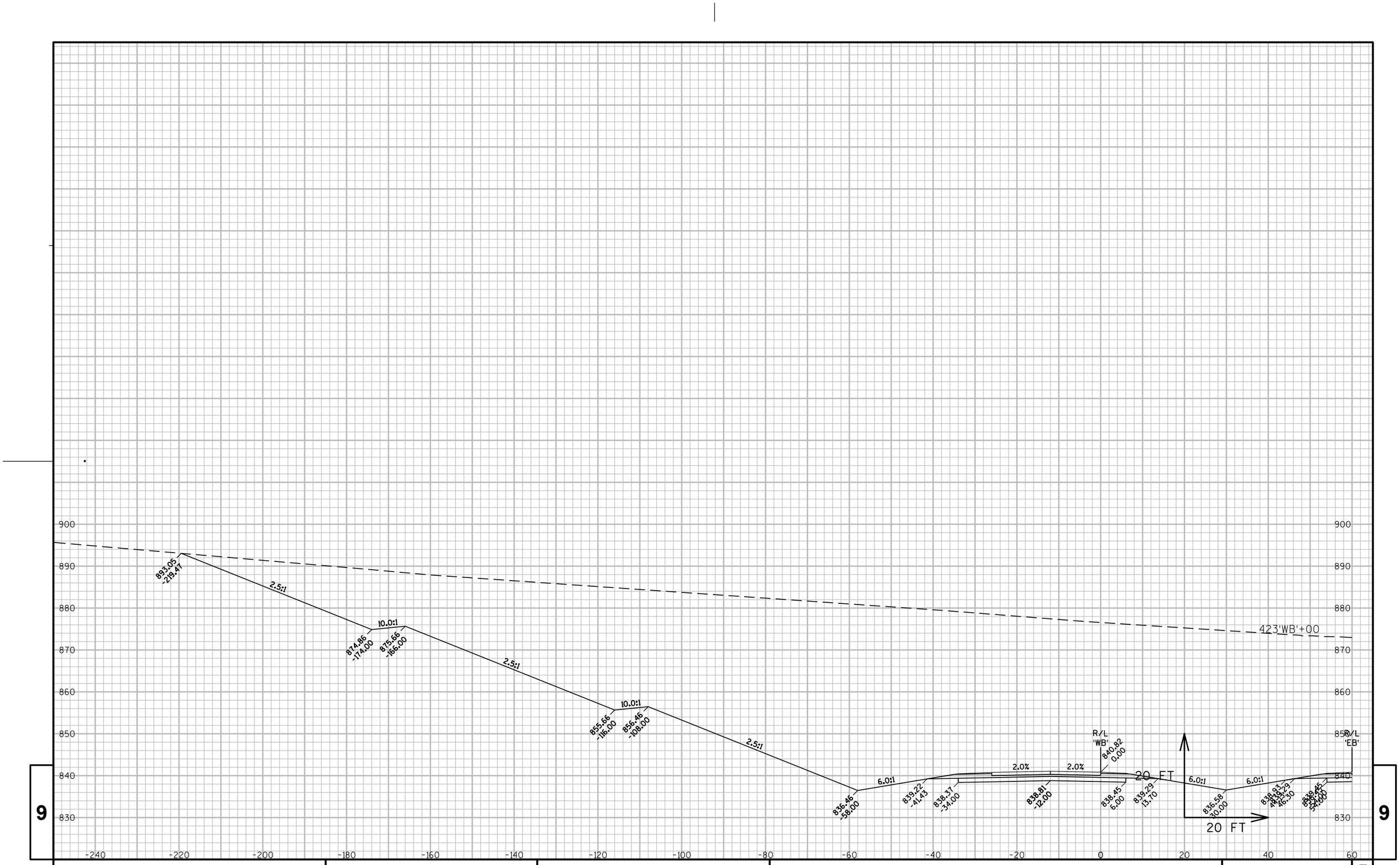
PLOT DATE : 12/15/2020 10:18 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 615	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090398_XS

PLOT DATE : 12/15/2020 10:18 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



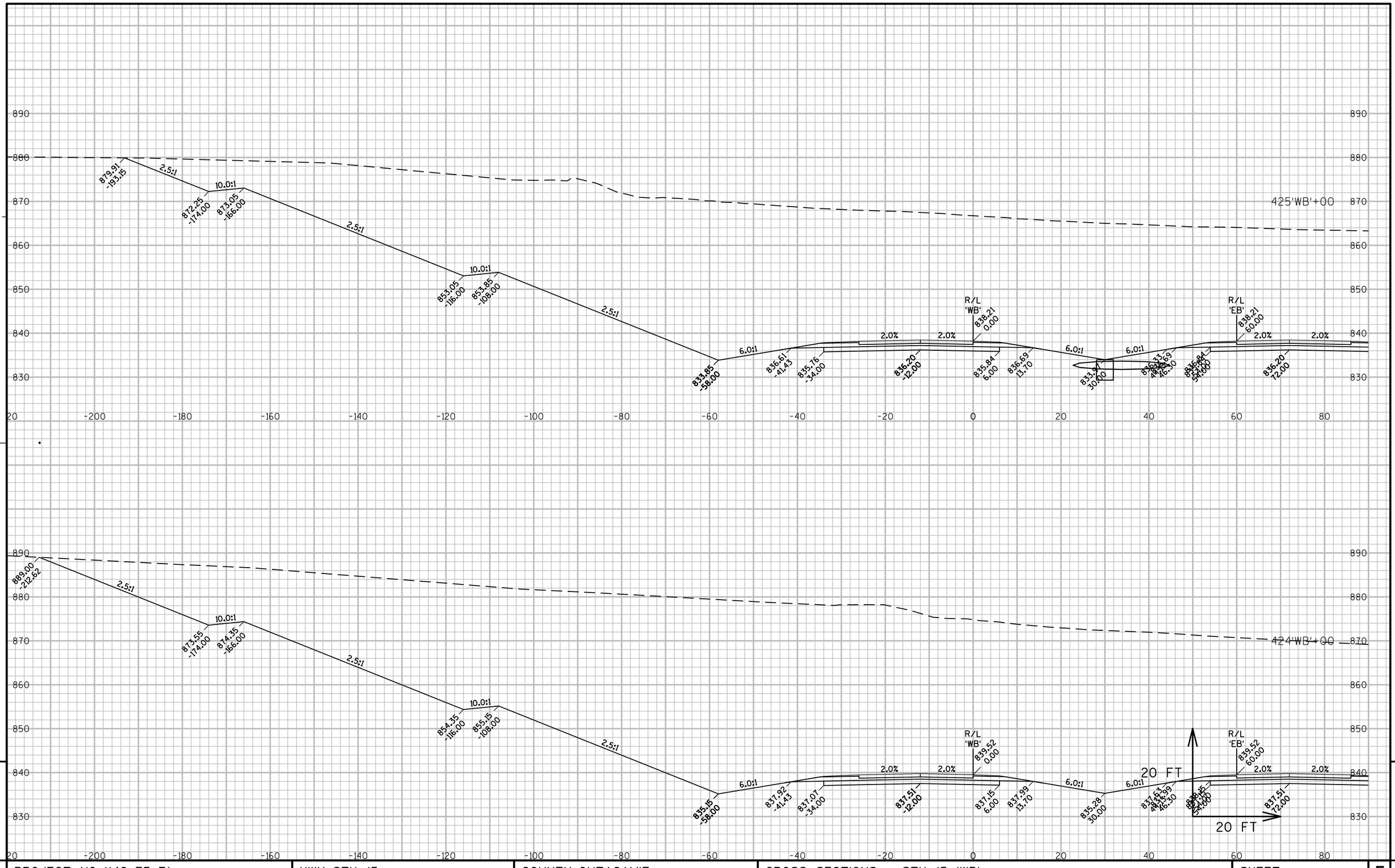
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 616 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090399_XS

PLOT DATE : 12/15/2020 10:19 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

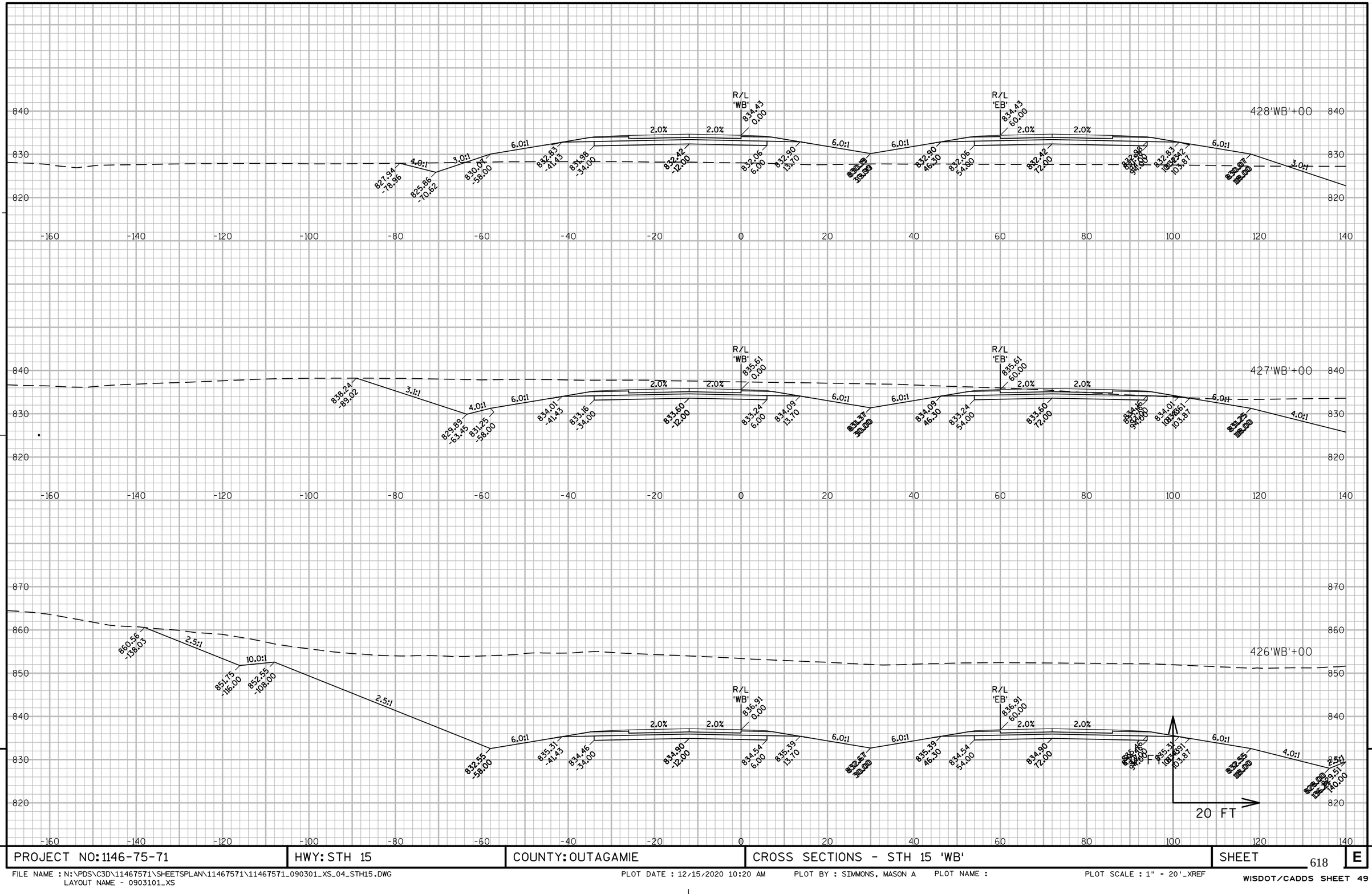


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 617	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903100_XS

PLOT DATE : 12/15/2020 10:19 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

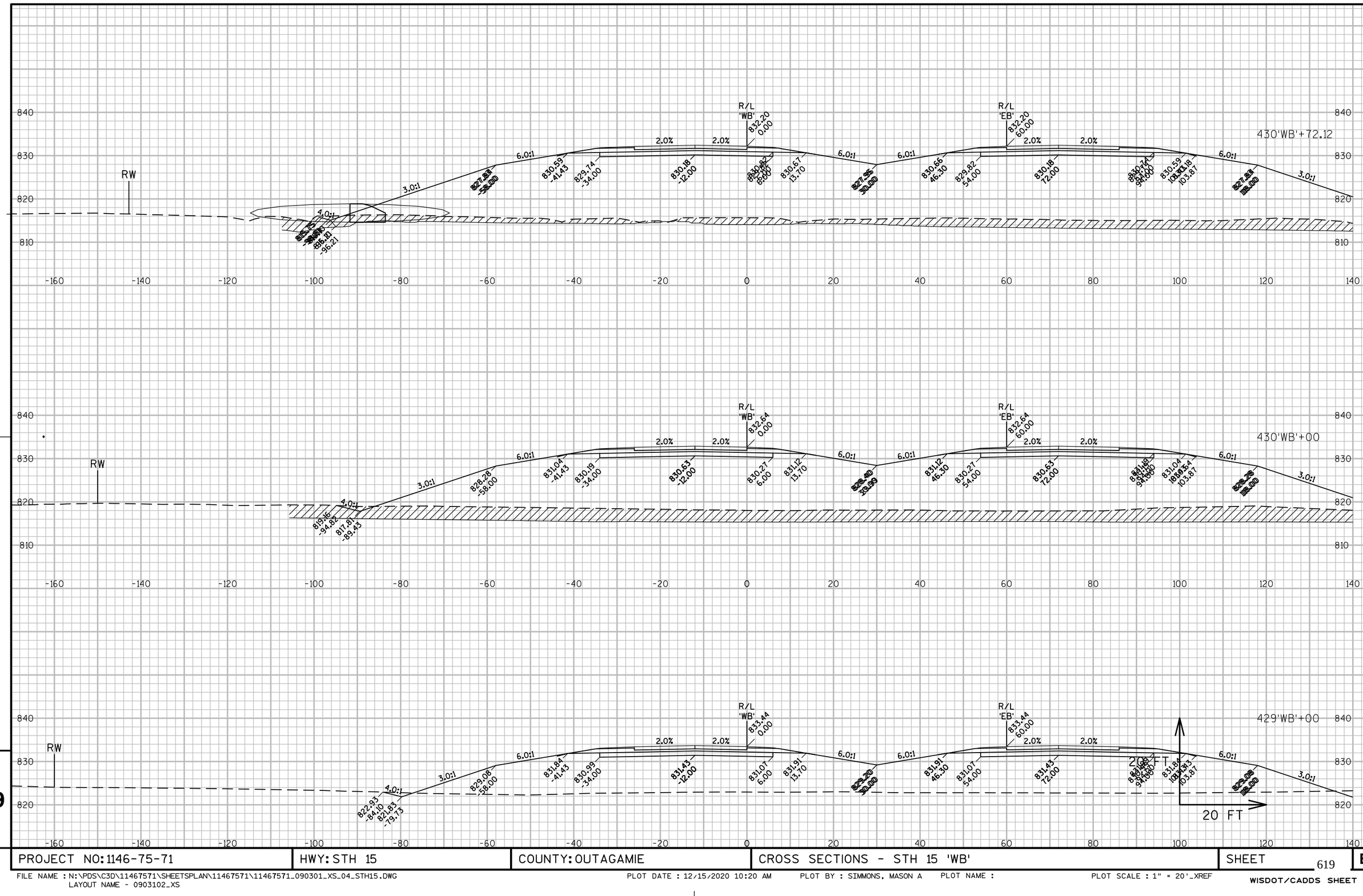


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 618	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903101_XS

PLOT DATE : 12/15/2020 10:20 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

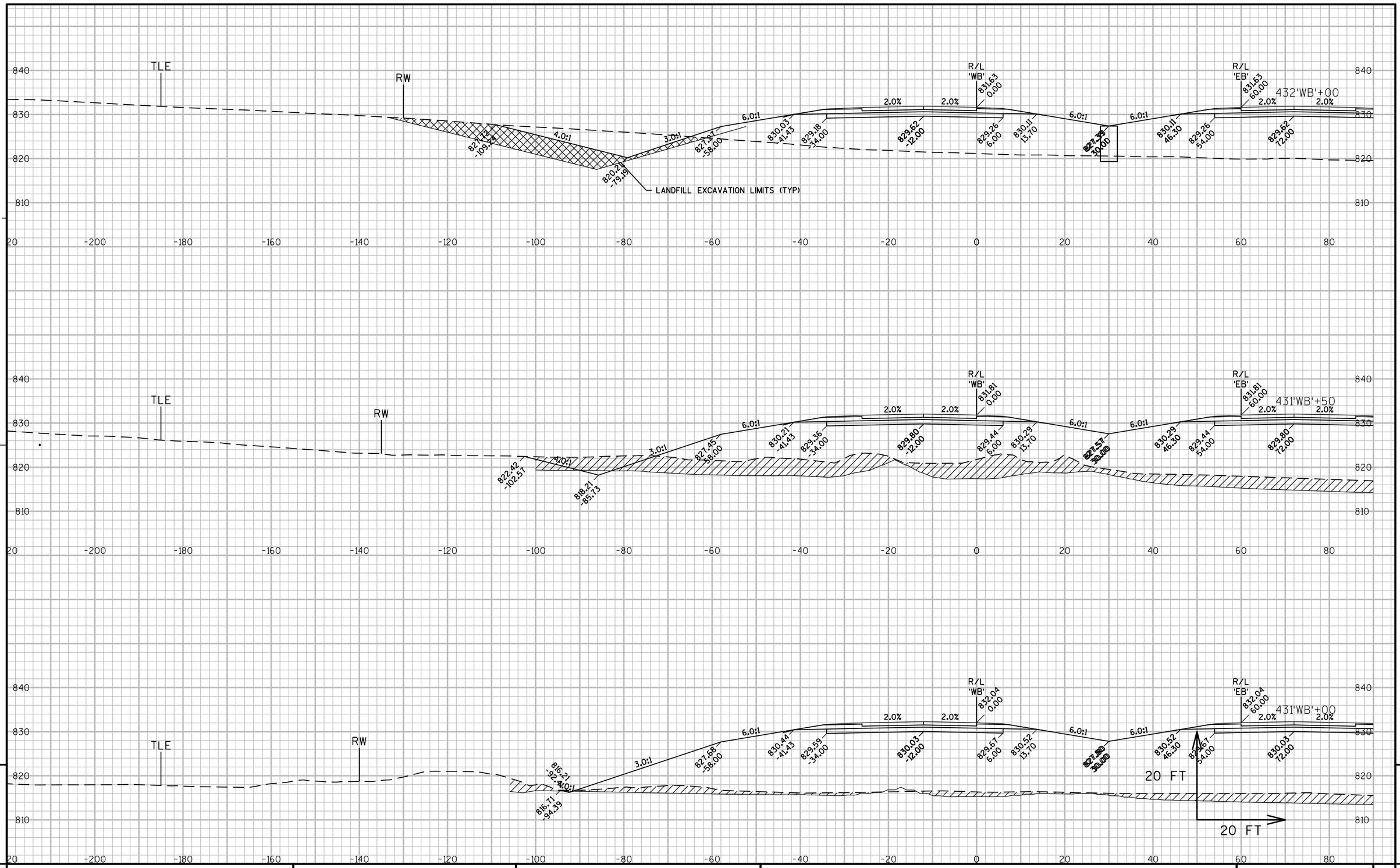
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 619	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903102_XS

PLOT DATE : 12/15/2020 10:20 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 620	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903103_XS

PLOT DATE : 12/15/2020 10:20 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

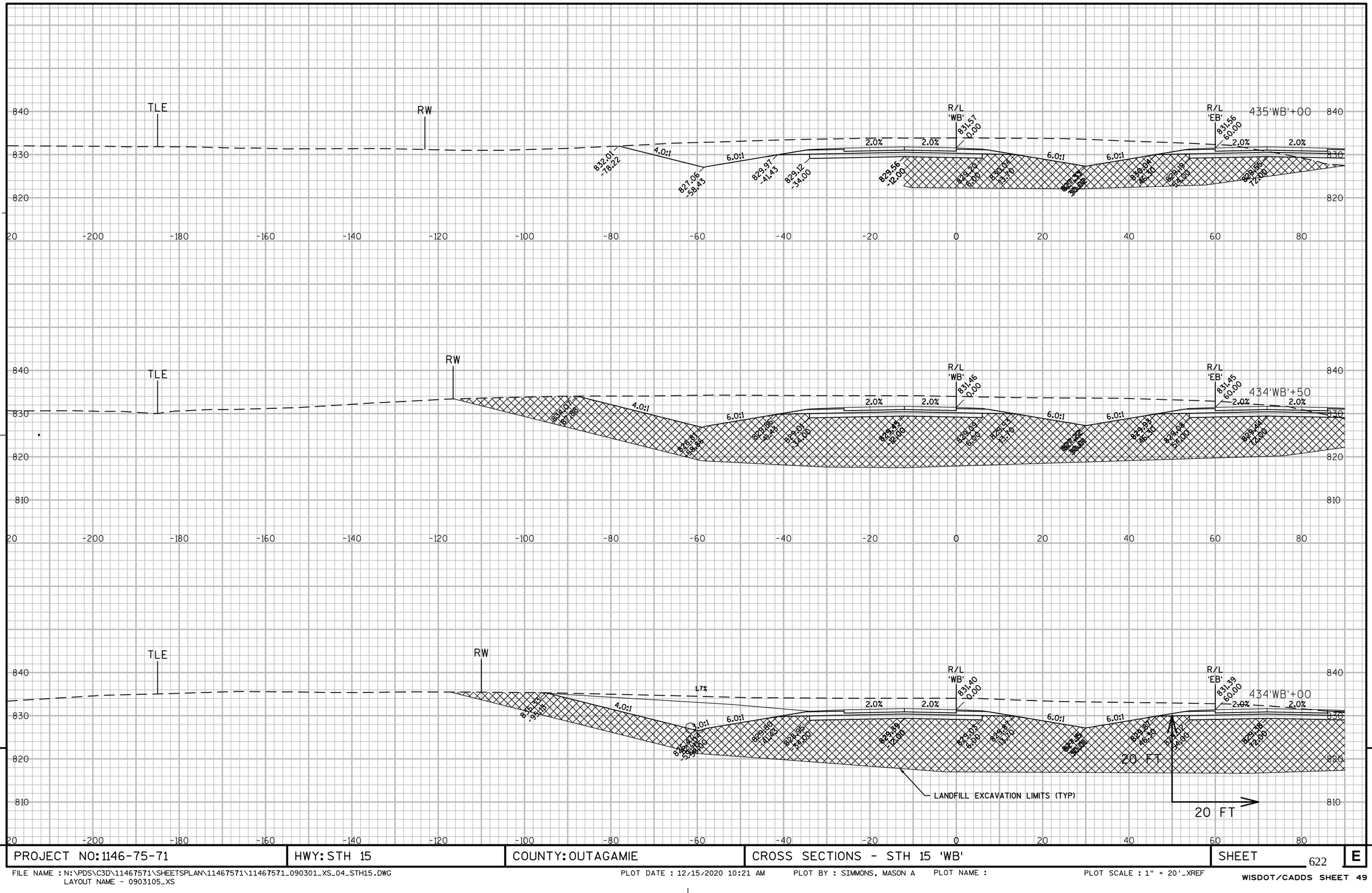
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 621	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903104_XS

PLOT DATE : 12/15/2020 10:21 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

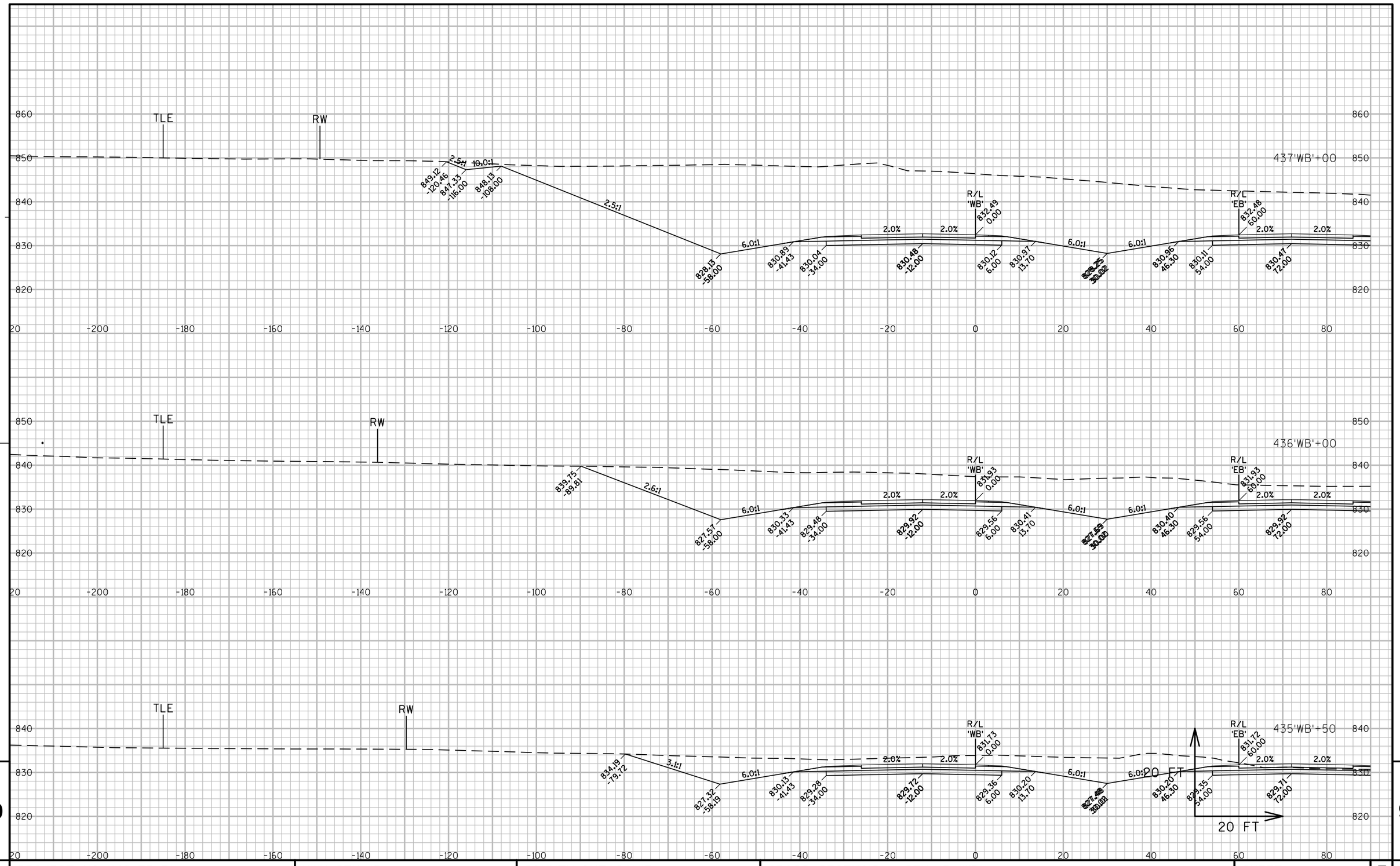


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 622	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903105_XS

PLOT DATE : 12/15/2020 10:21 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



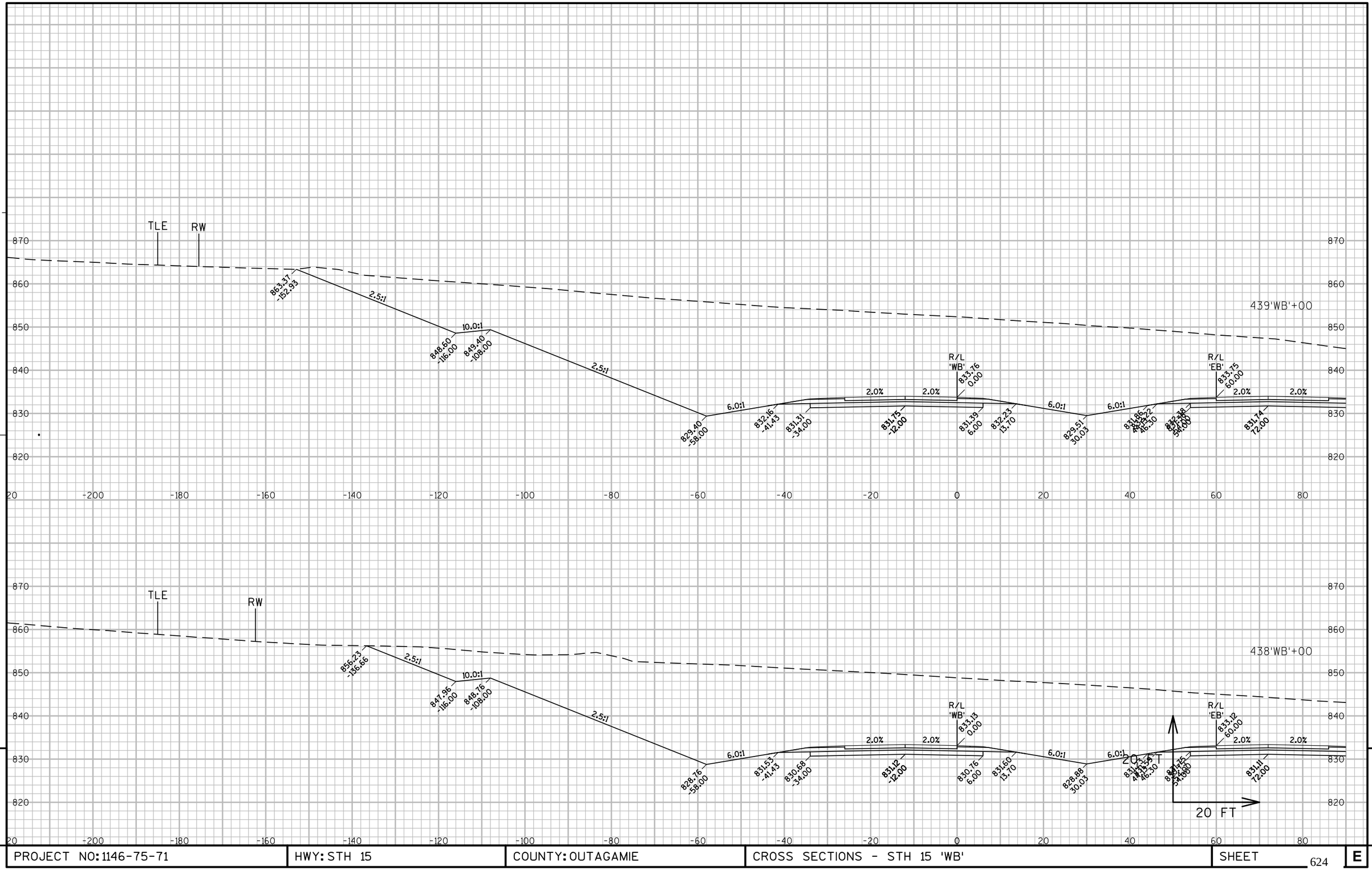
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 623	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903106_XS

PLOT DATE : 12/15/2020 10:22 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

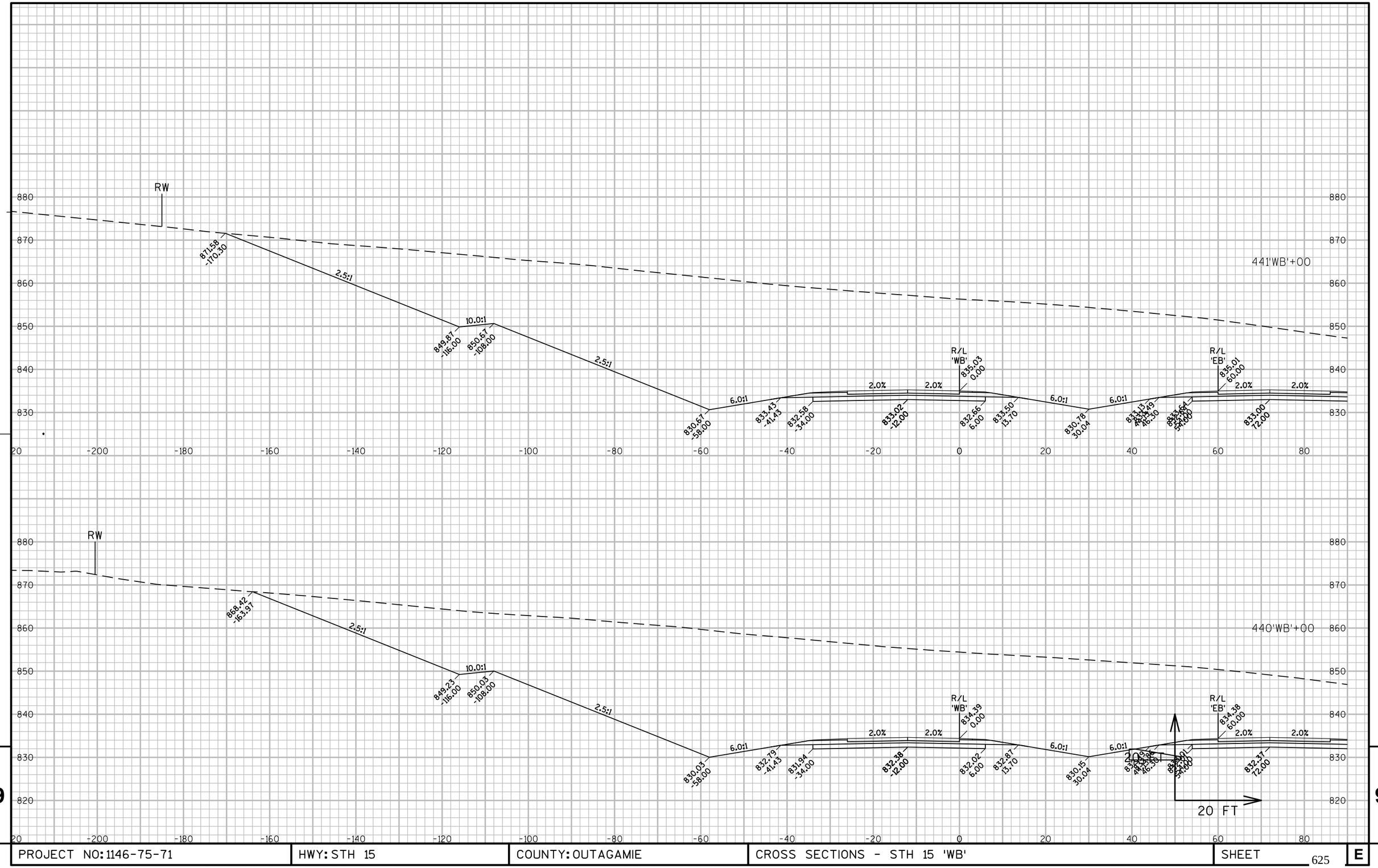


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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 624	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903107_XS
PLOT DATE : 12/15/2020 10:22 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



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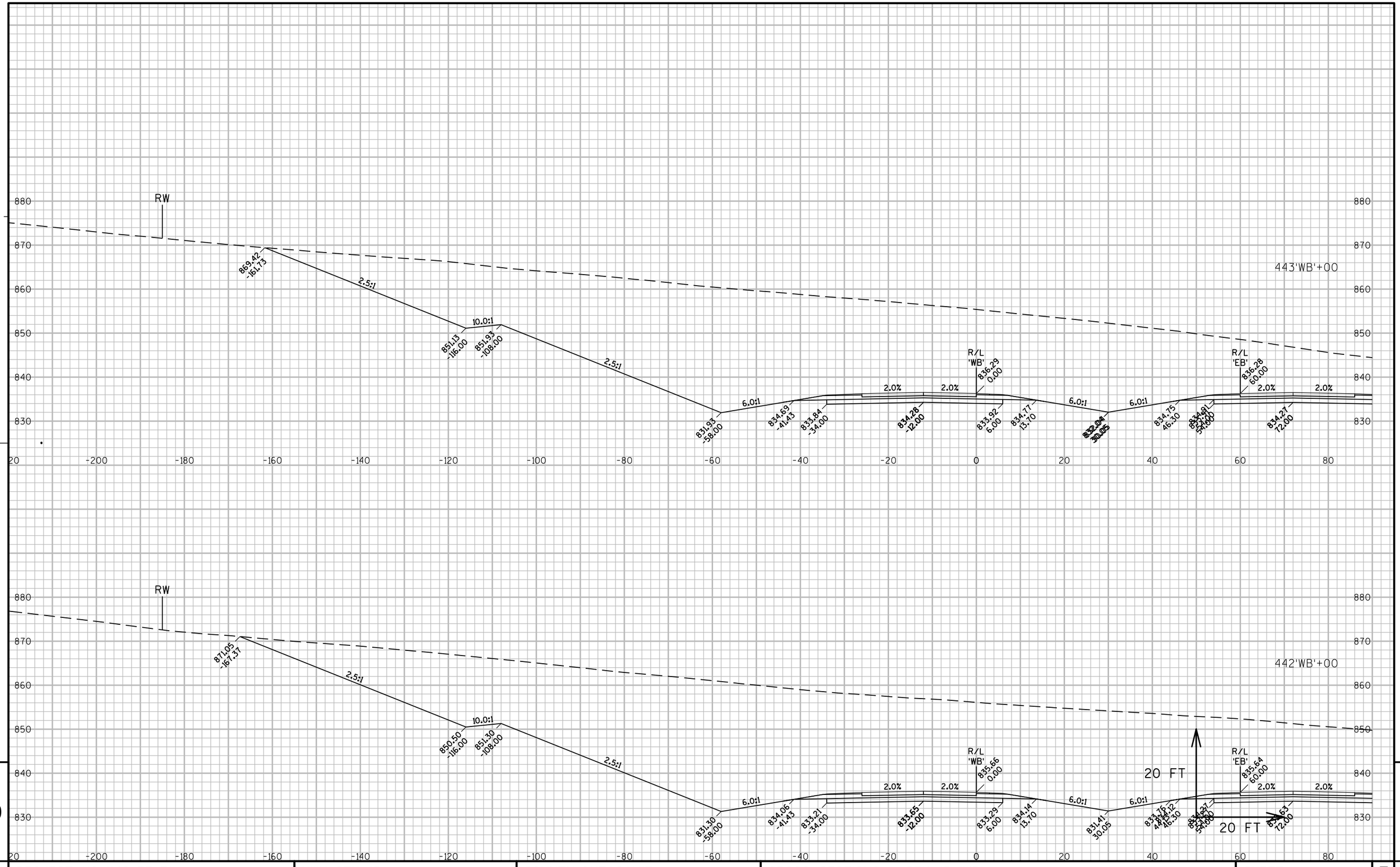
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 625	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903108_XS

PLOT DATE : 12/15/2020 10:23 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

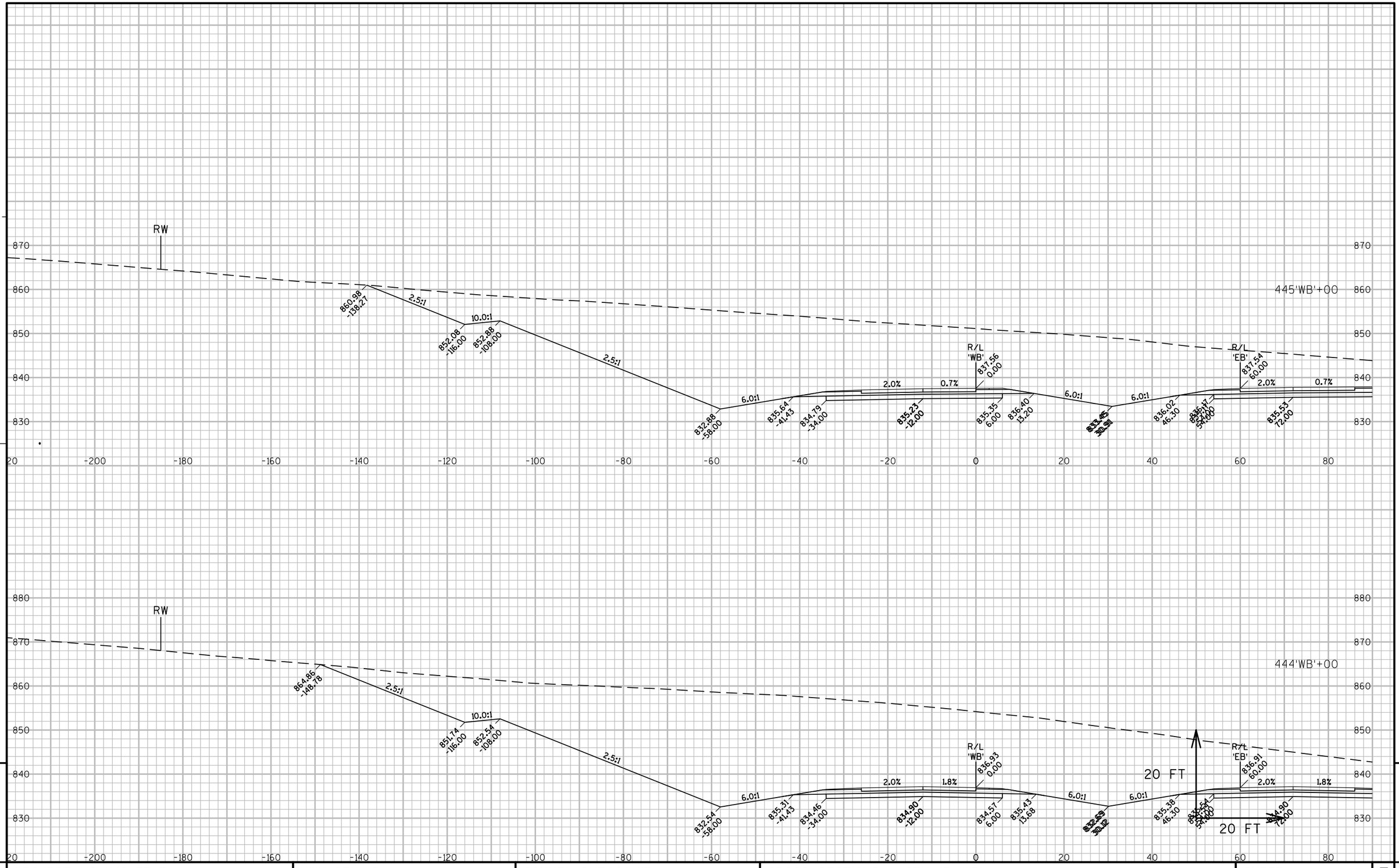


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 626	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903109_XS

PLOT DATE : 12/15/2020 10:23 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



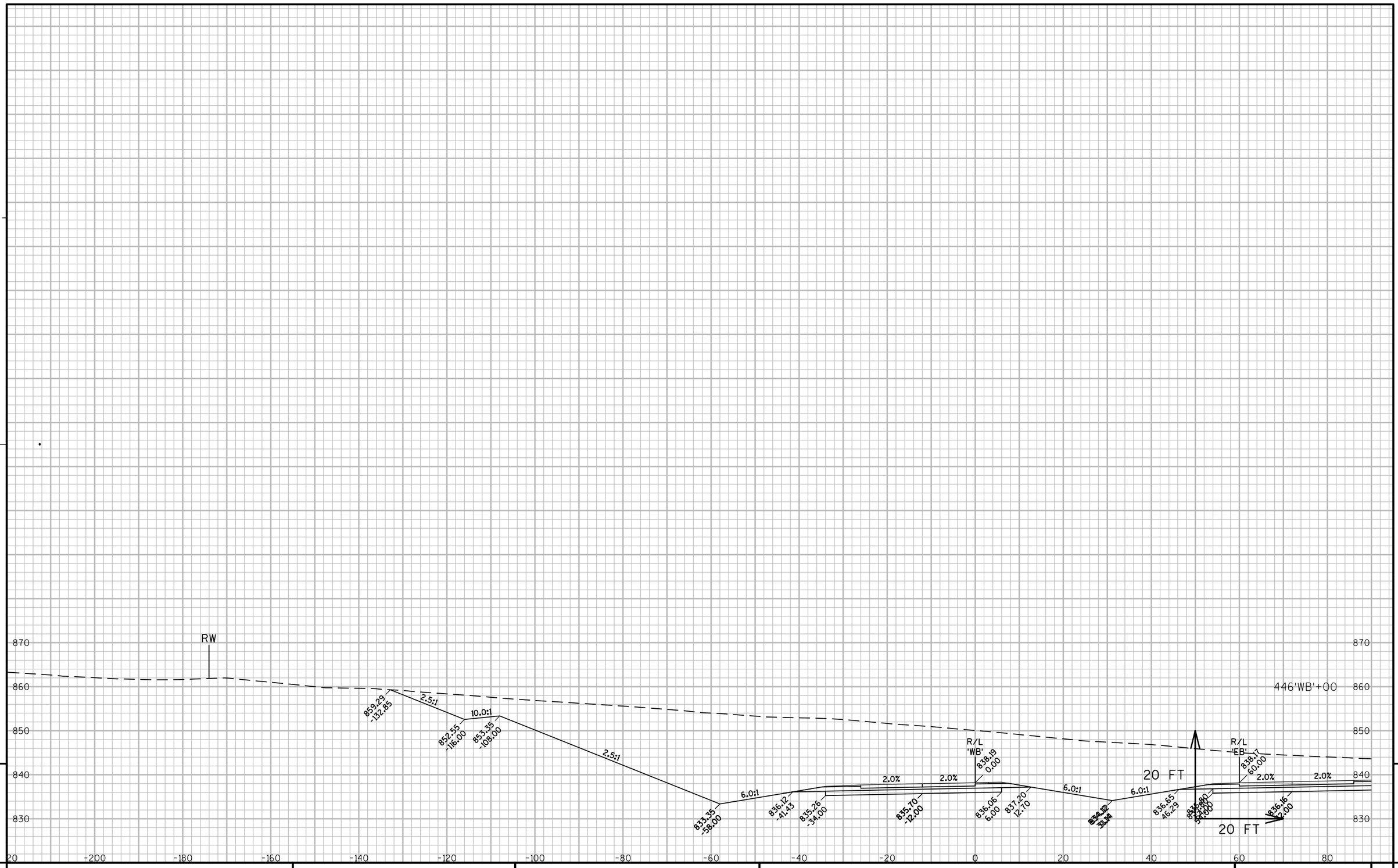
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 627	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903110_XS

PLOT DATE : 12/15/2020 10:24 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

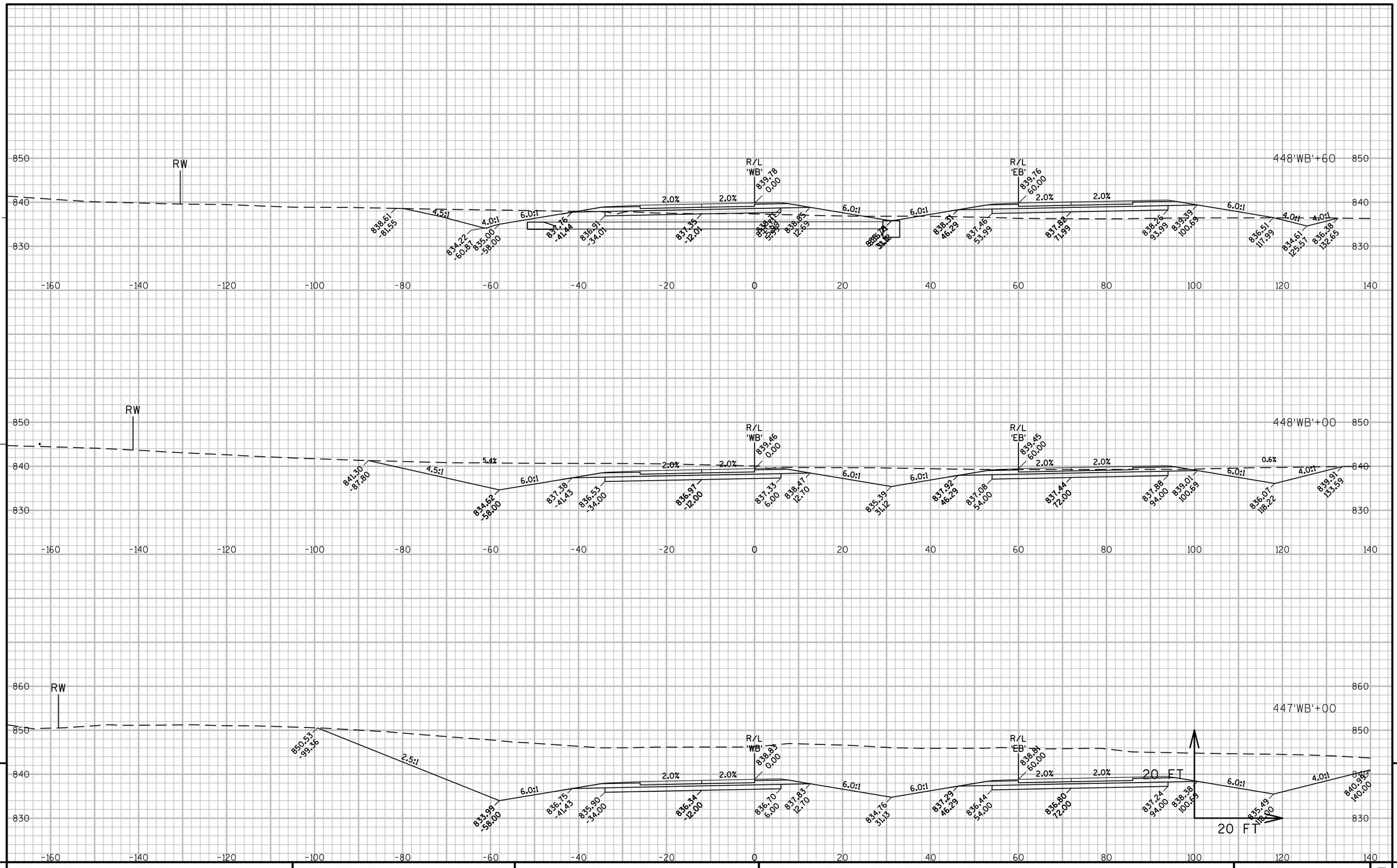


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 628	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903111_XS

PLOT DATE : 12/15/2020 10:24 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

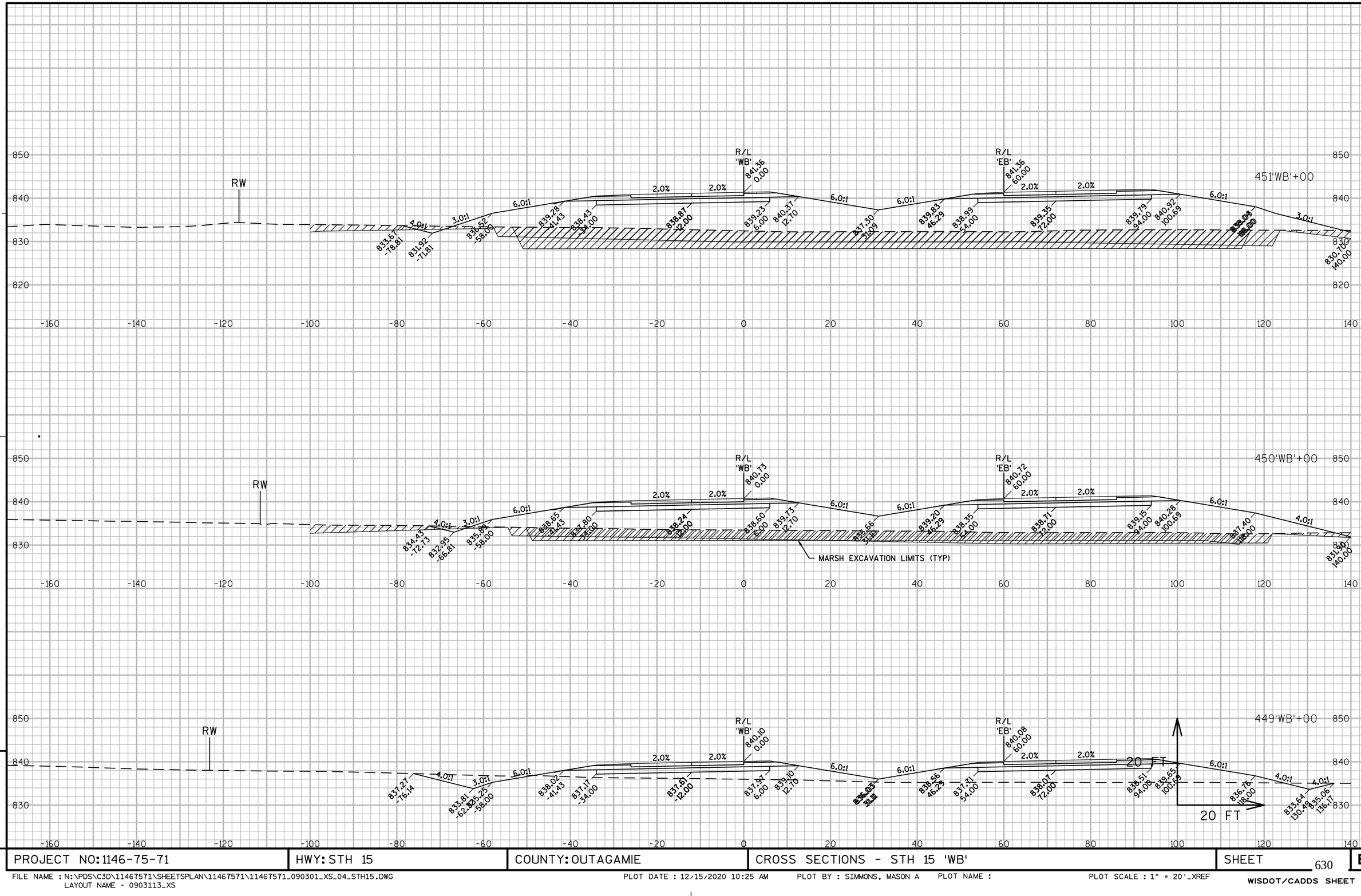


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 629	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903112_XS

PLOT DATE : 12/15/2020 10:25 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

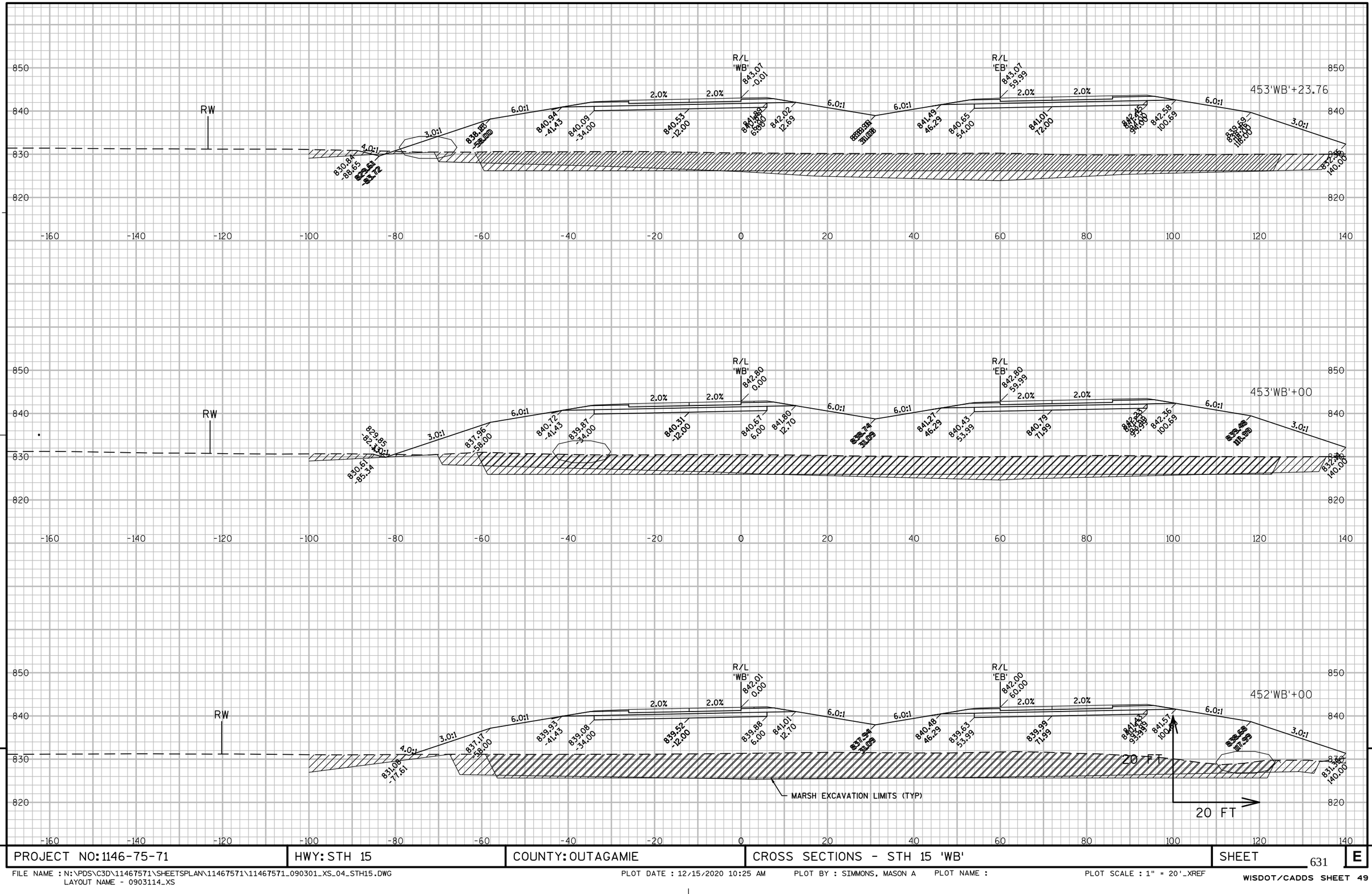


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 630	E

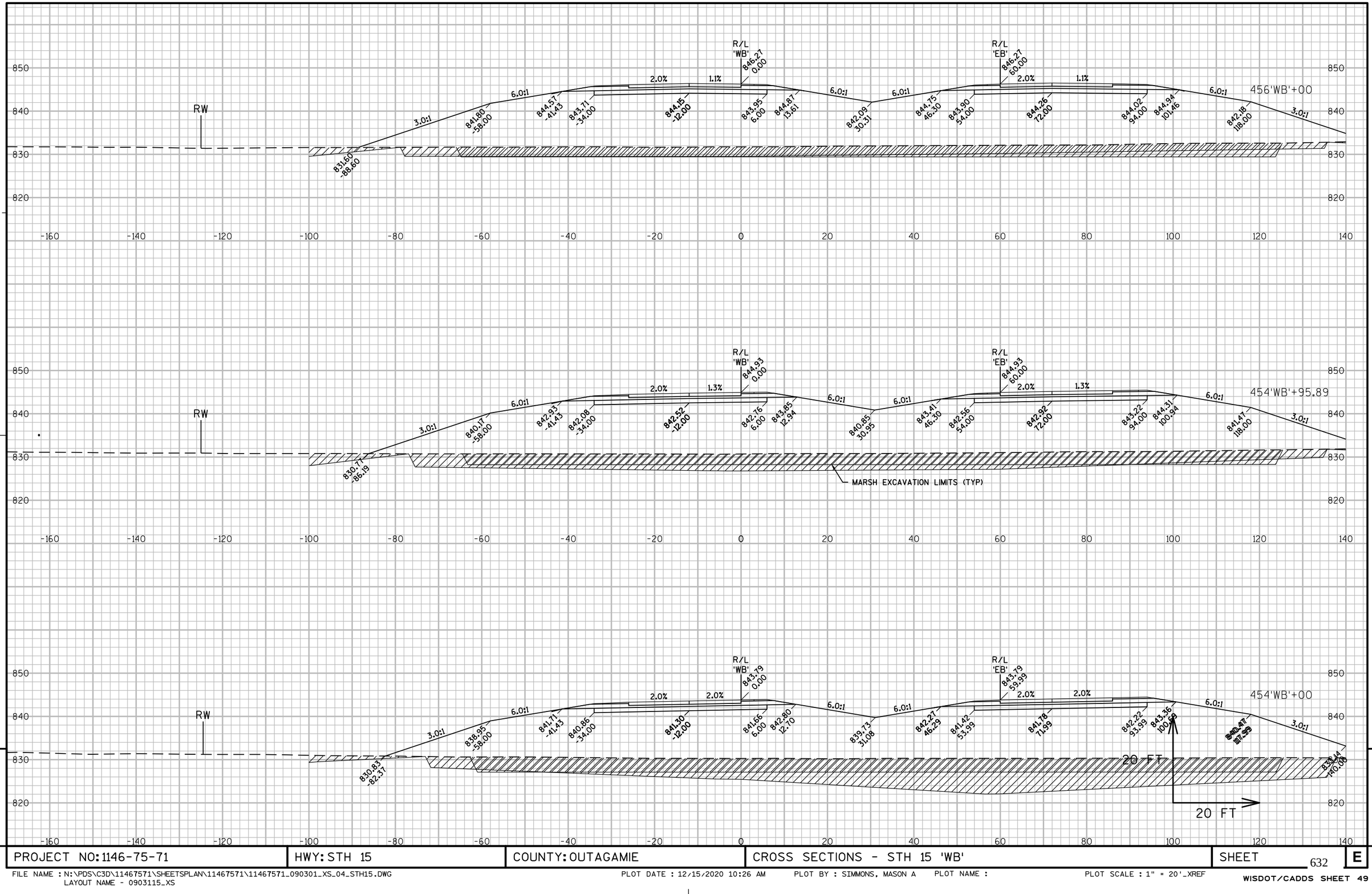
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LAYOUT NAME - 0903113_XS

PLOT DATE : 12/15/2020 10:25 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

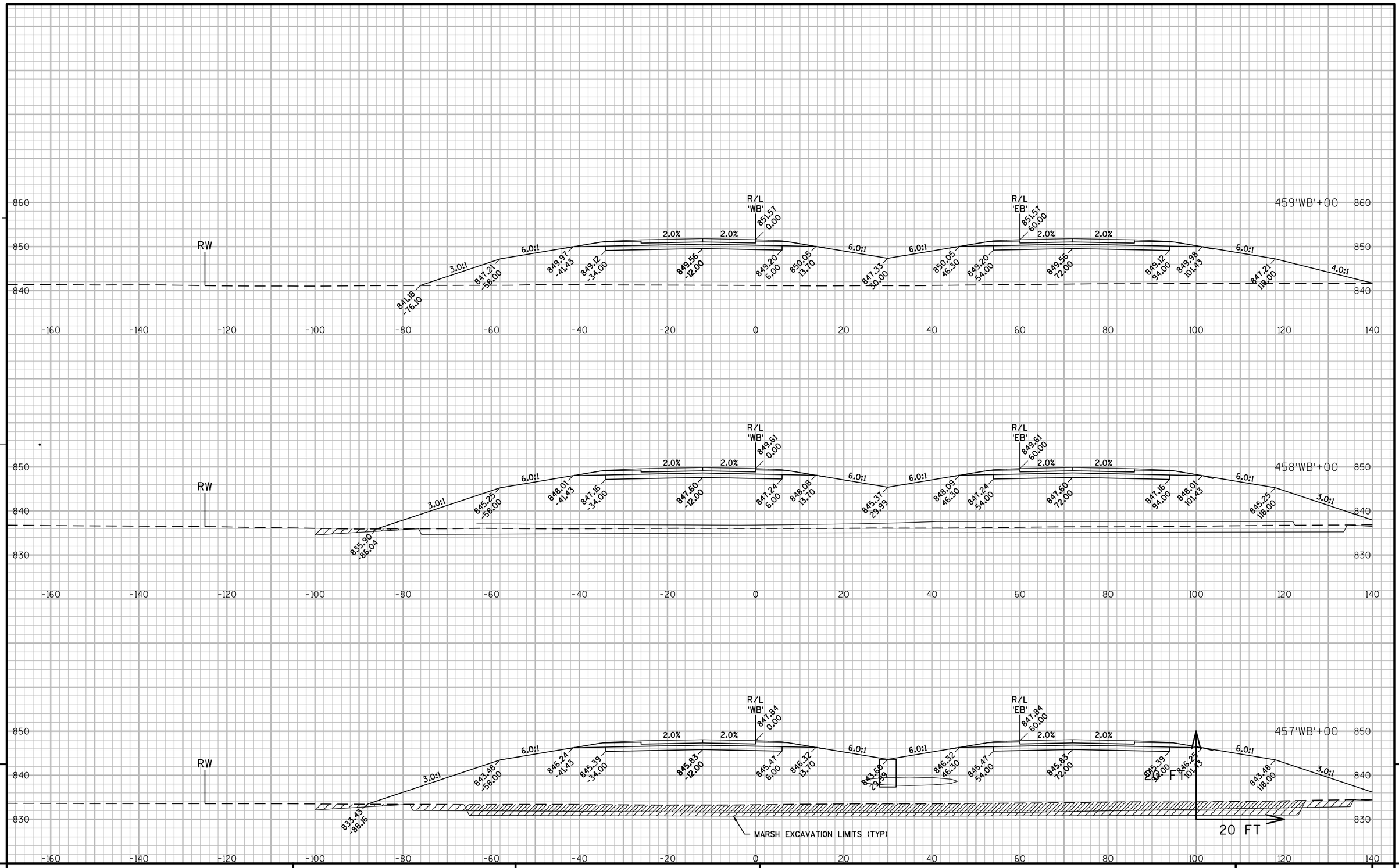


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 631	E



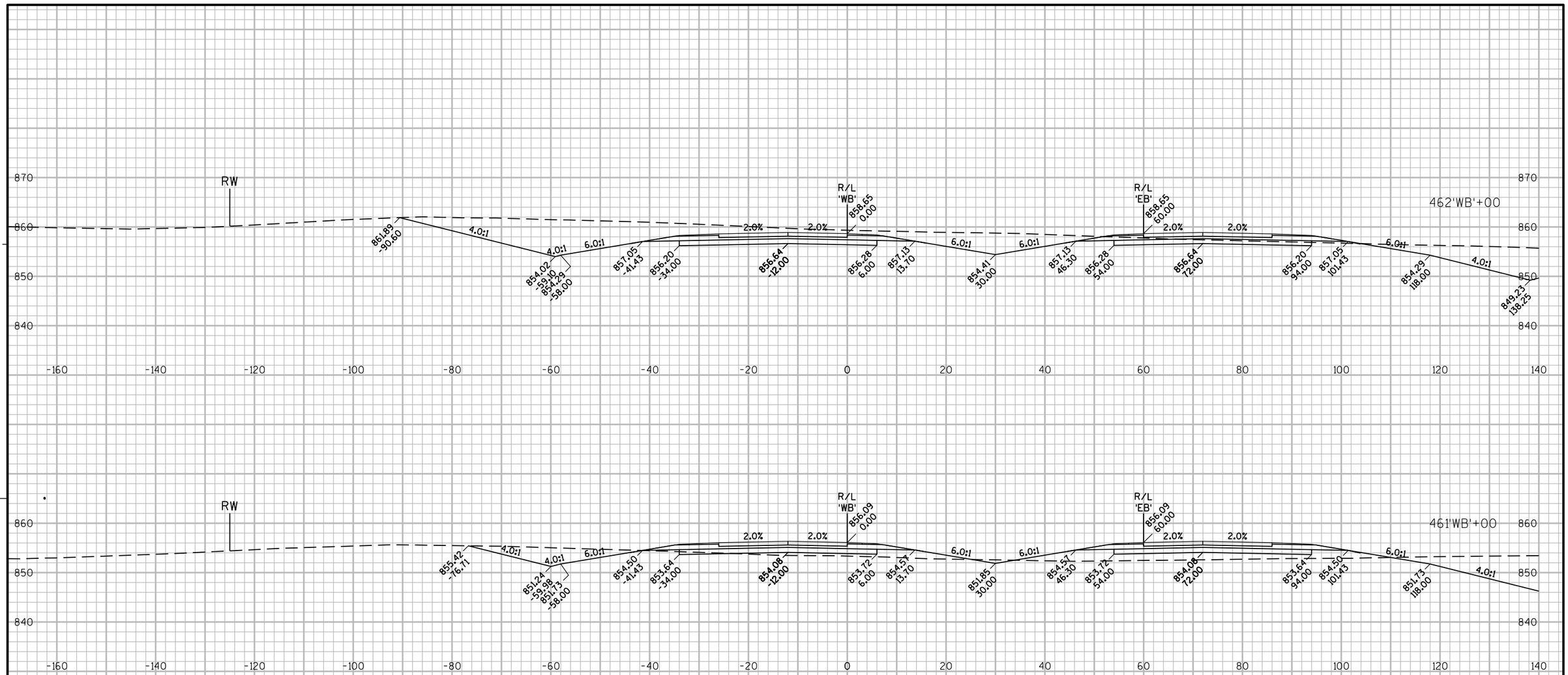
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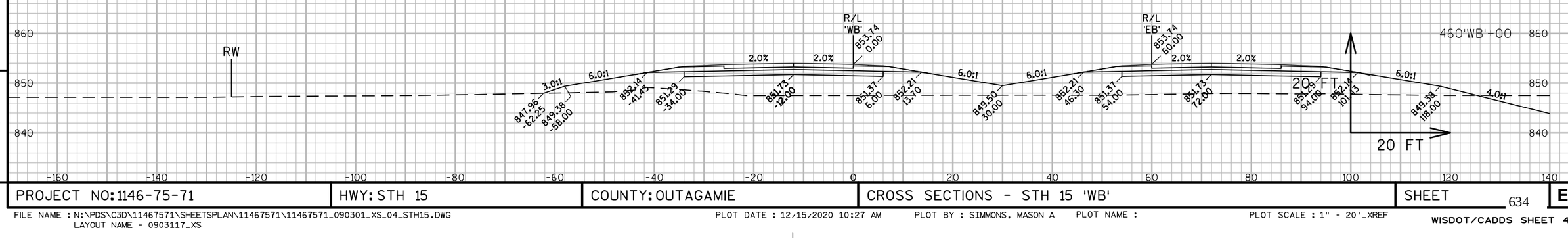
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LAYOUT NAME - 0903115_XS
PLOT DATE : 12/15/2020 10:26 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 633	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903116_XS
PLOT DATE : 12/15/2020 10:26 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49





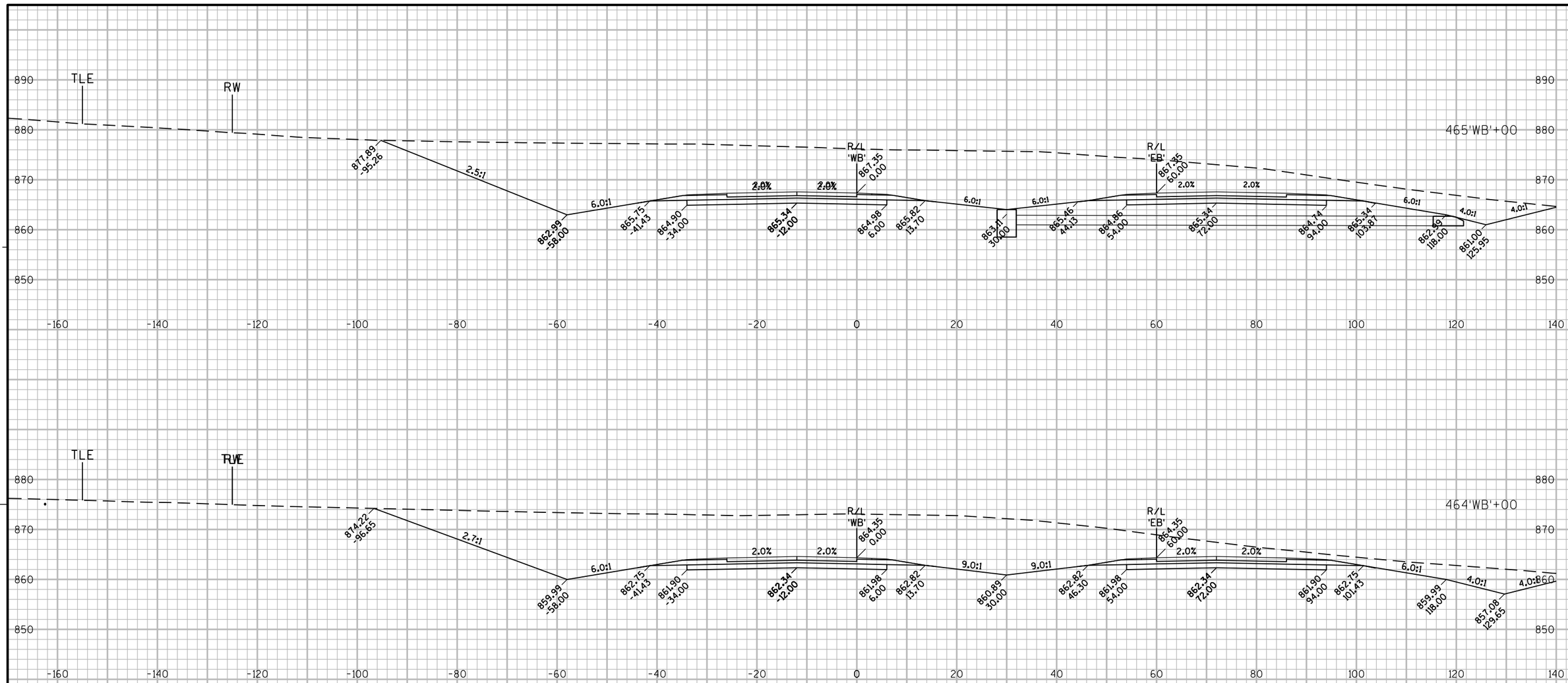
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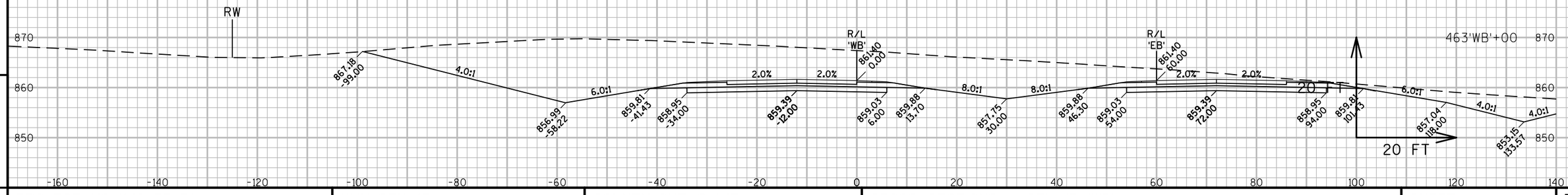
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 634	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903117_XS

PLOT DATE : 12/15/2020 10:27 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF





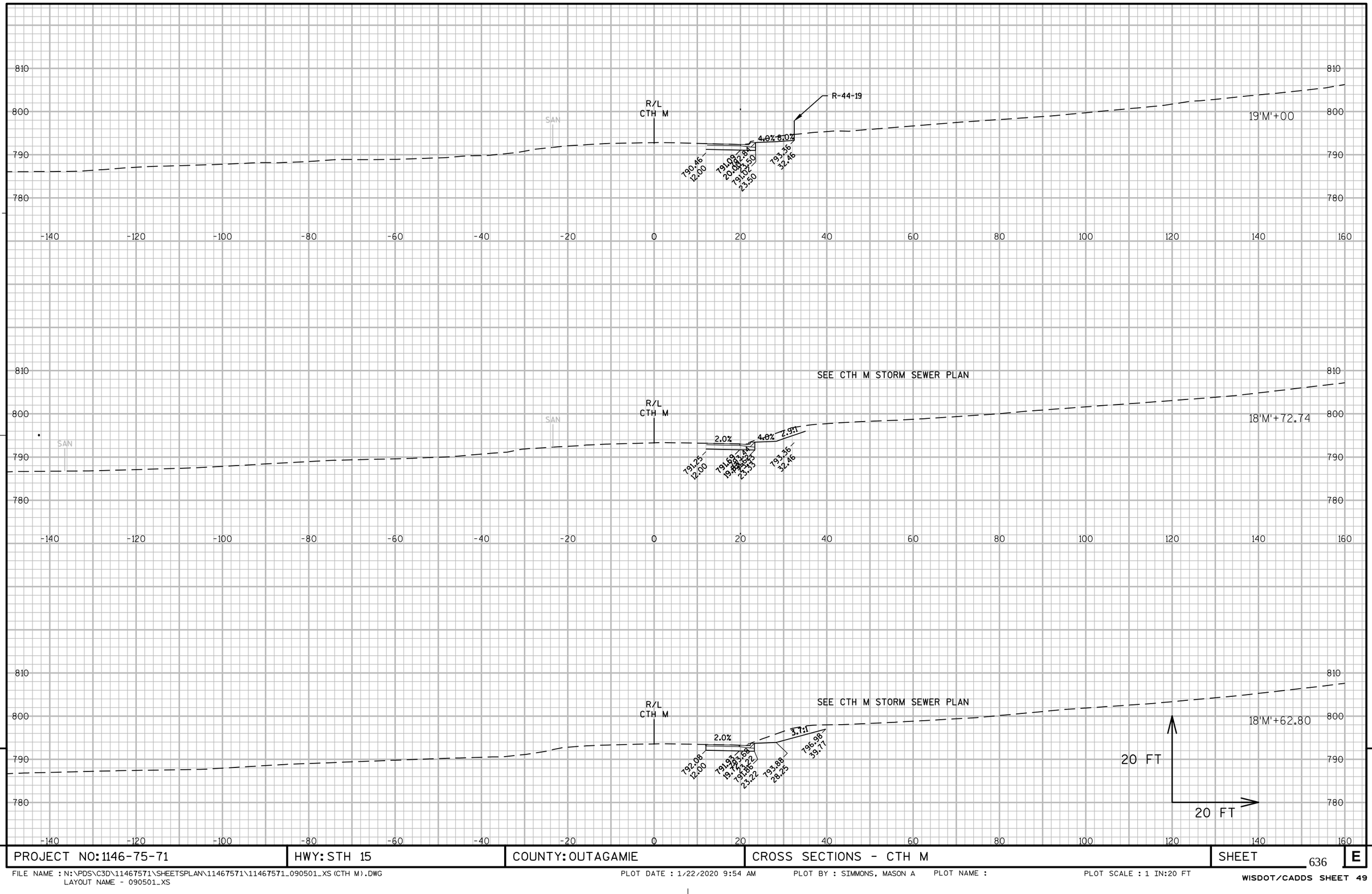
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET 635	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903118_XS

PLOT DATE : 12/15/2020 10:27 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

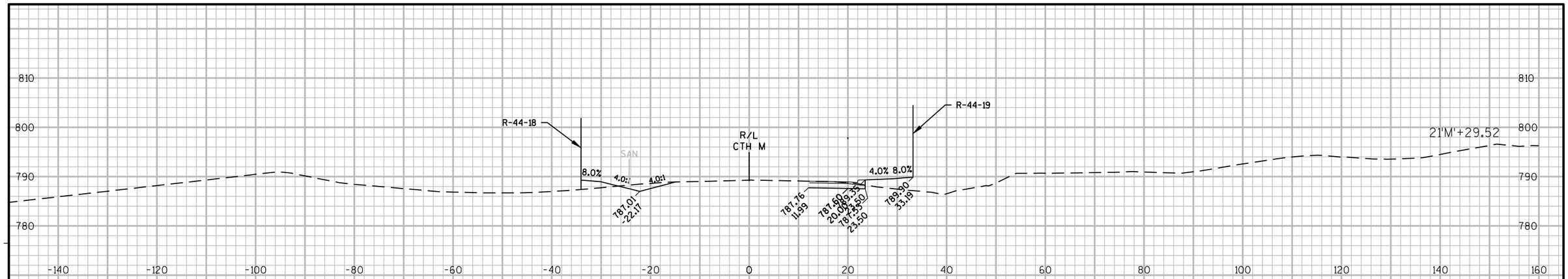


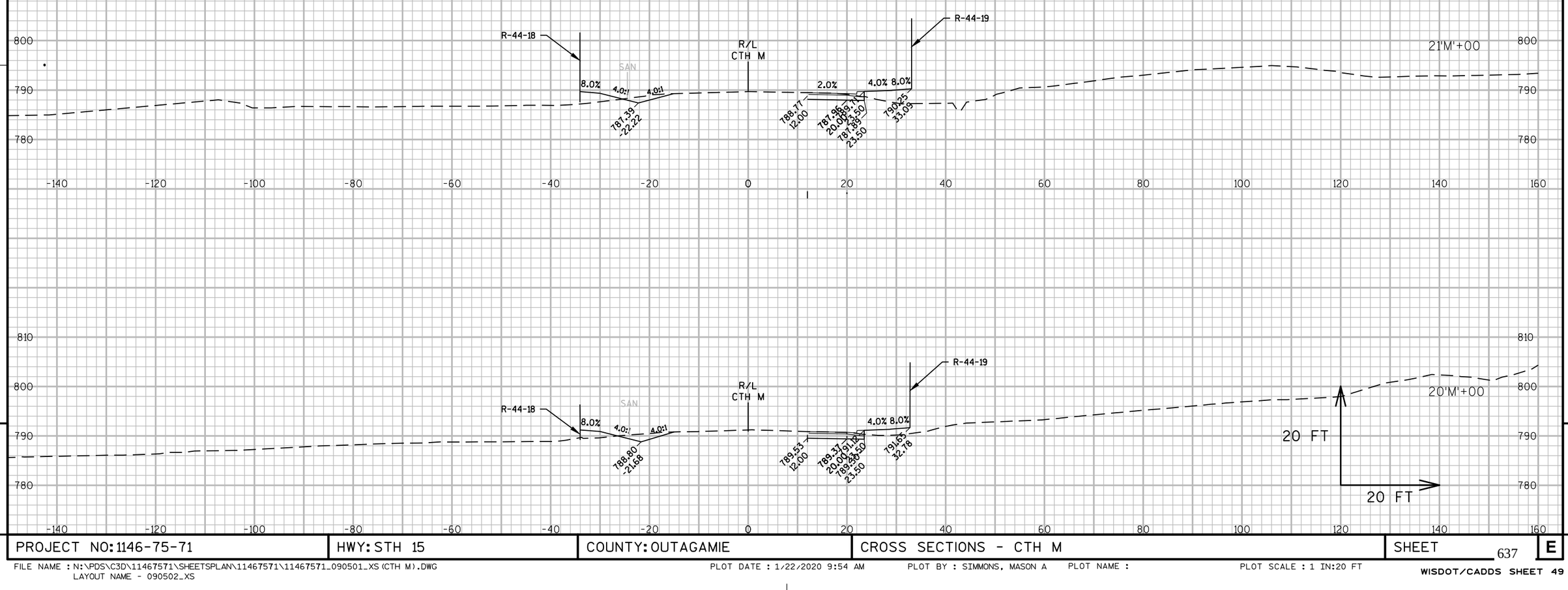
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH M	SHEET 636 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090501_XS (CTH M).DWG
LAYOUT NAME - 090501_XS

PLOT DATE : 1/22/2020 9:54 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49





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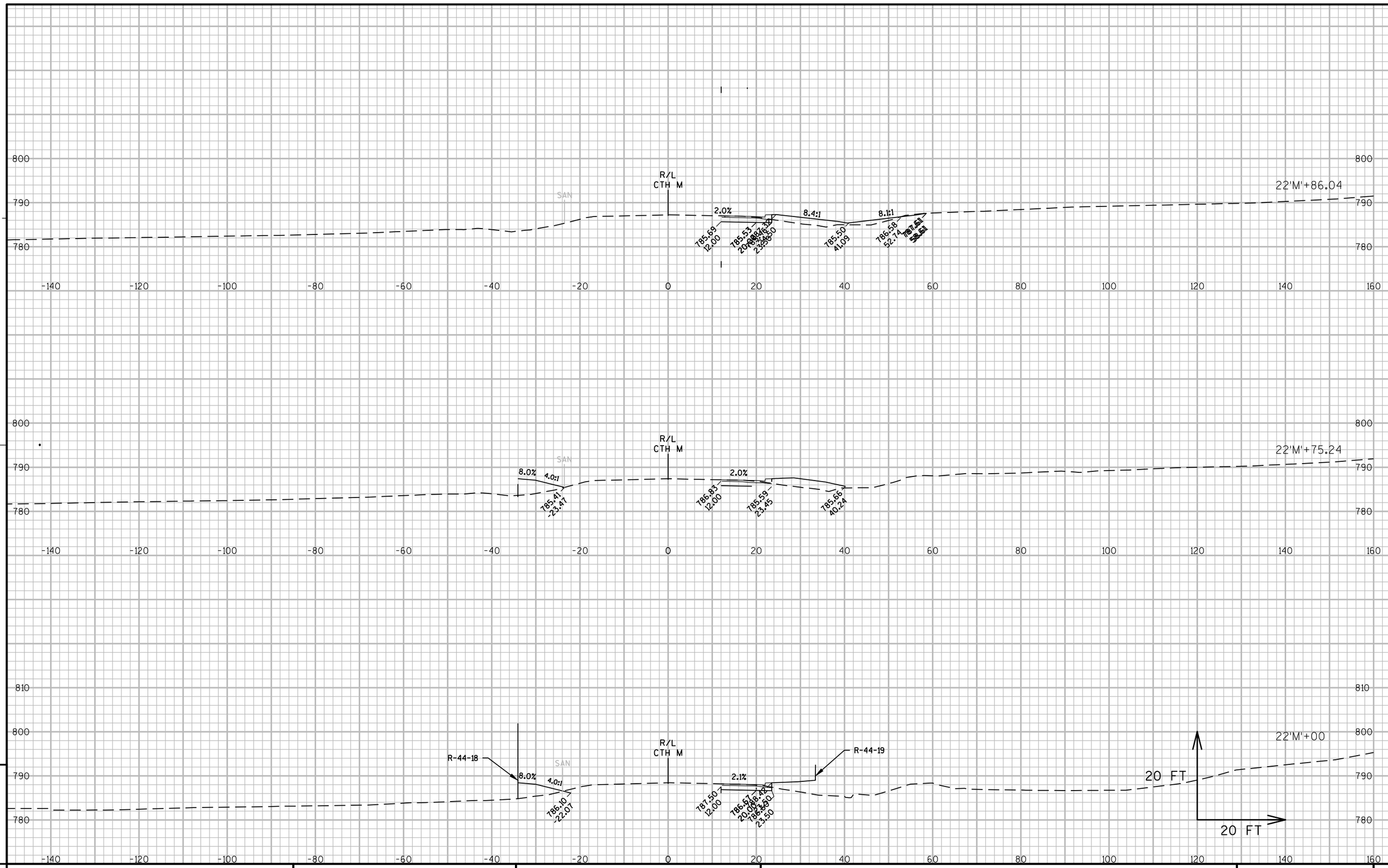
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH M	SHEET 637	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090501_XS (CTH M).DWG
LAYOUT NAME - 090502_XS

PLOT DATE : 1/22/2020 9:54 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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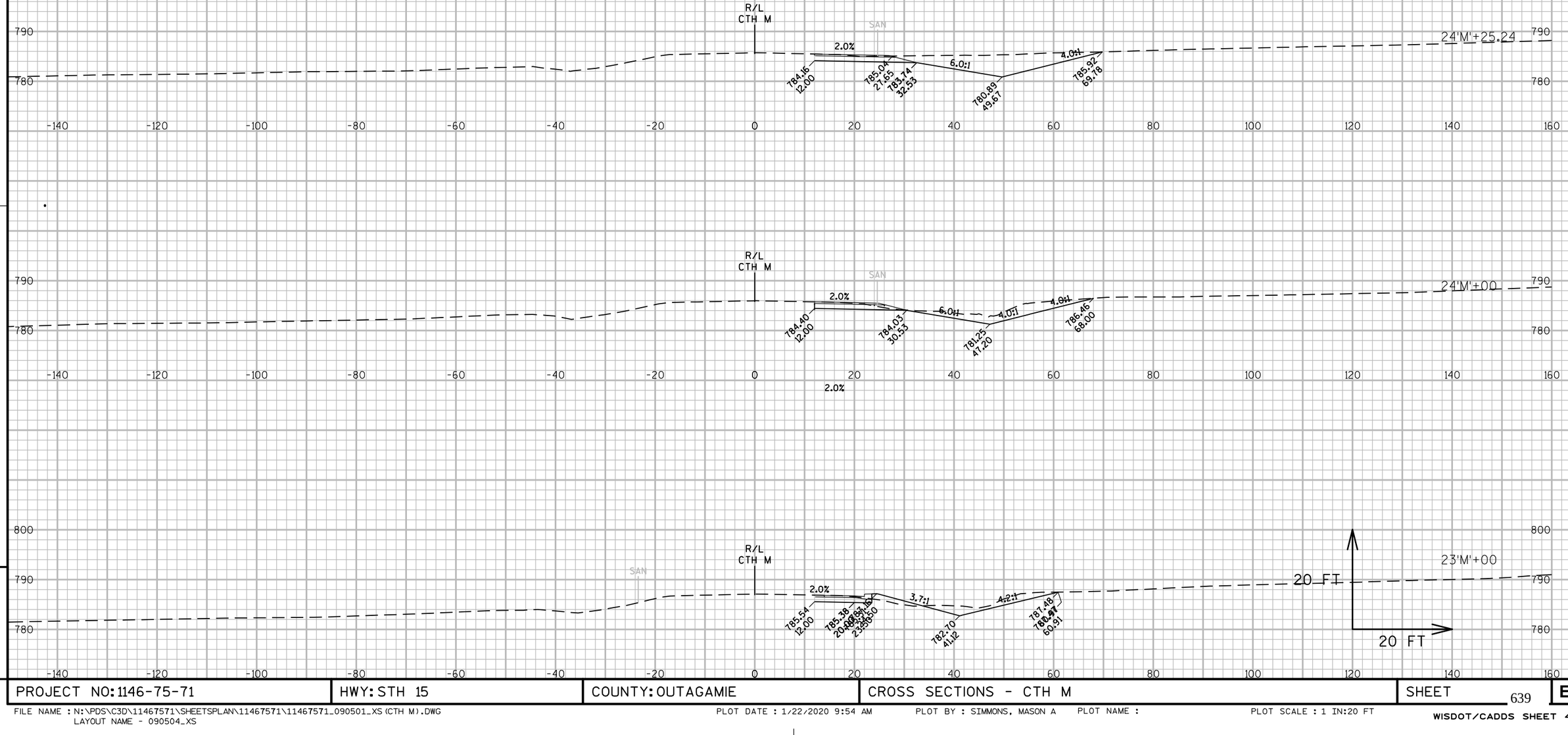
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH M	SHEET 638 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090501_XS (CTH M).DWG
LAYOUT NAME - 090503_XS

PLOT DATE : 1/22/2020 9:54 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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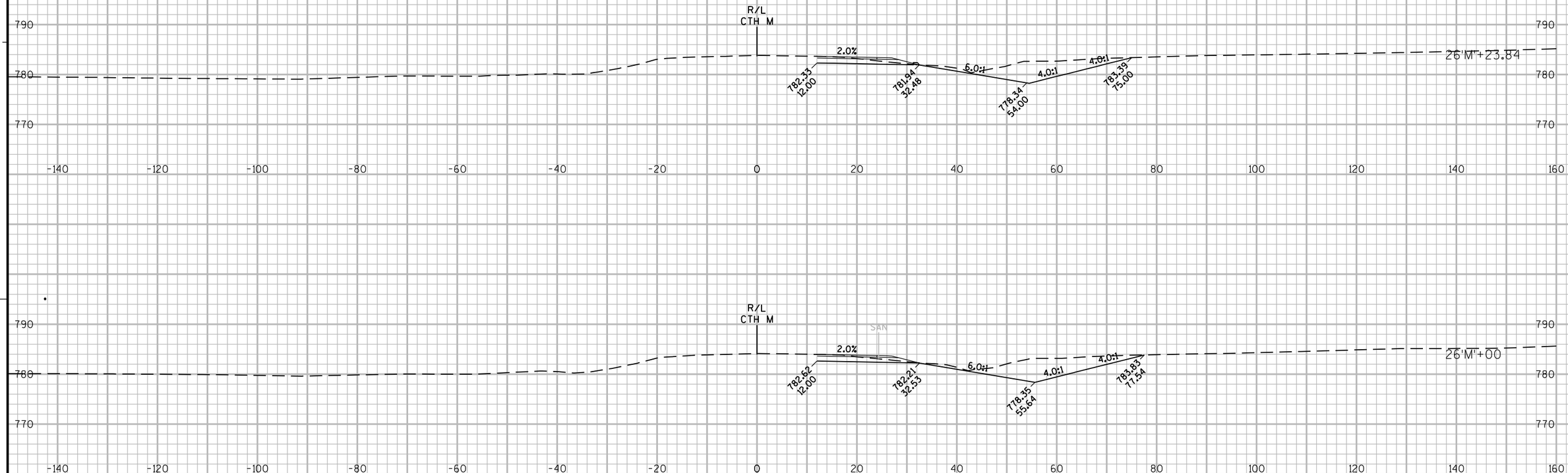
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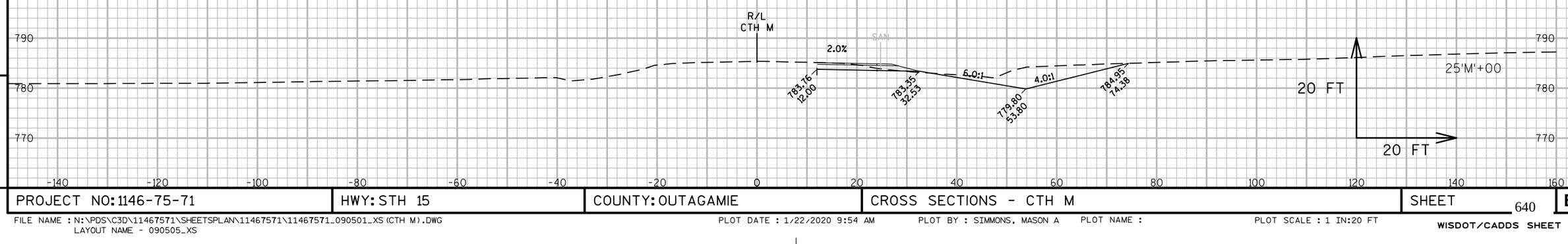
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH M	SHEET 639	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090501_XS (CTH M).DWG
LAYOUT NAME - 090504_XS

PLOT DATE : 1/22/2020 9:54 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49





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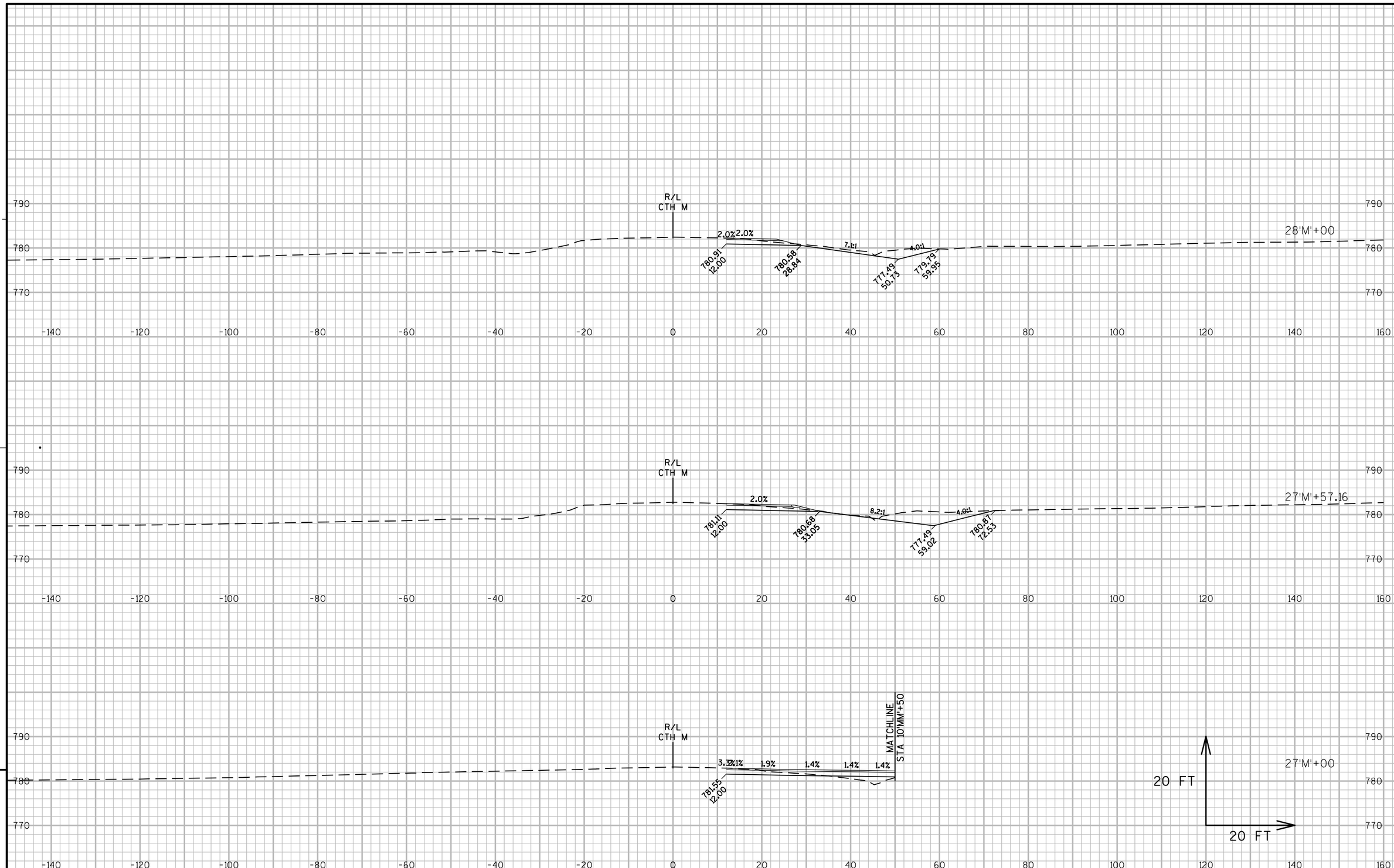
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH M	SHEET 640	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090501_XS (CTH M).DWG
LAYOUT NAME - 090505_XS

PLOT DATE : 1/22/2020 9:54 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

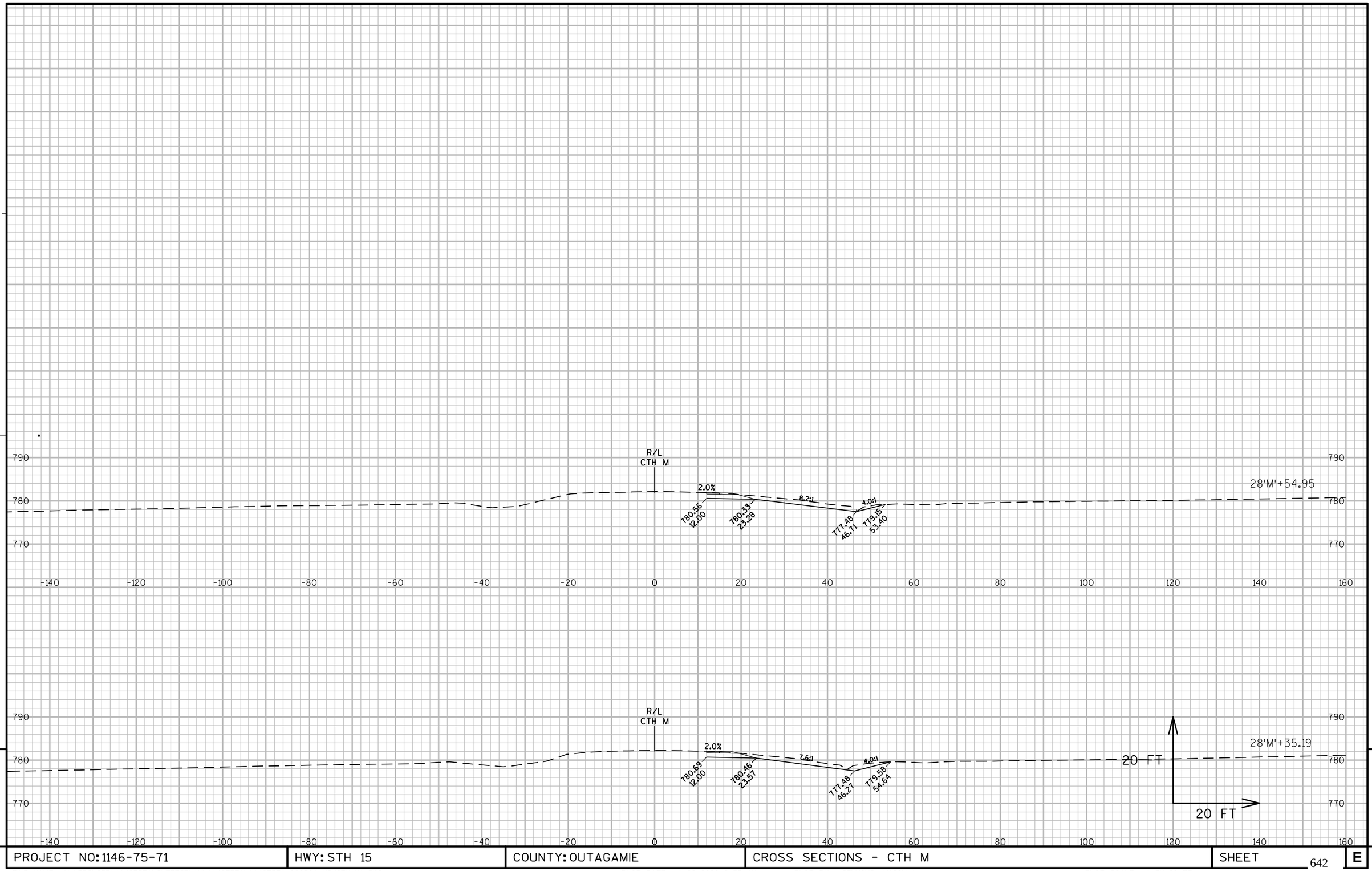


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH M	SHEET 641	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090501_XS (CTH M).DWG
LAYOUT NAME - 090506_XS

PLOT DATE : 1/22/2020 9:54 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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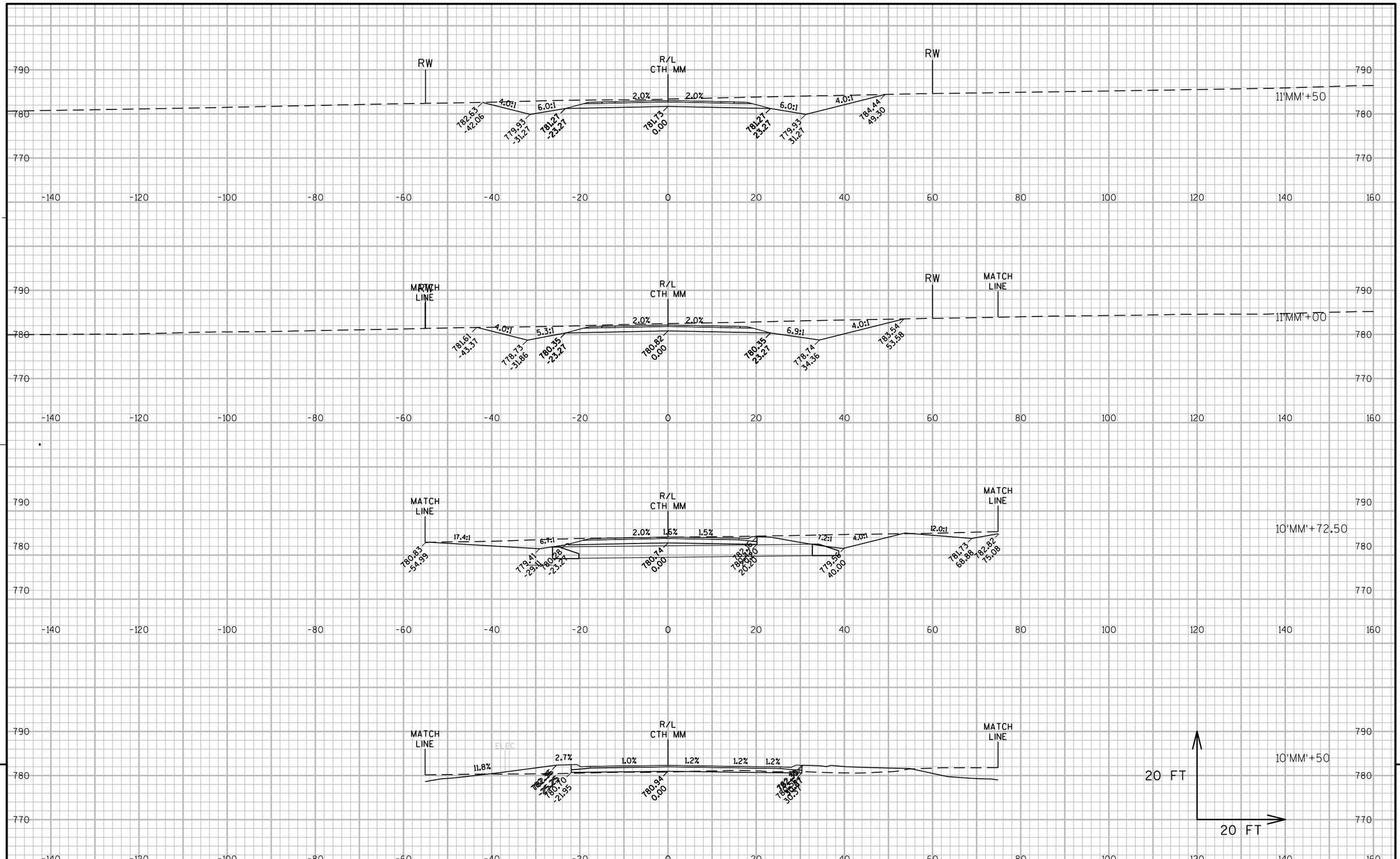
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH M	SHEET 642	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090501_XS (CTH M).DWG
LAYOUT NAME - 090507_XS

PLOT DATE : 1/22/2020 9:55 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



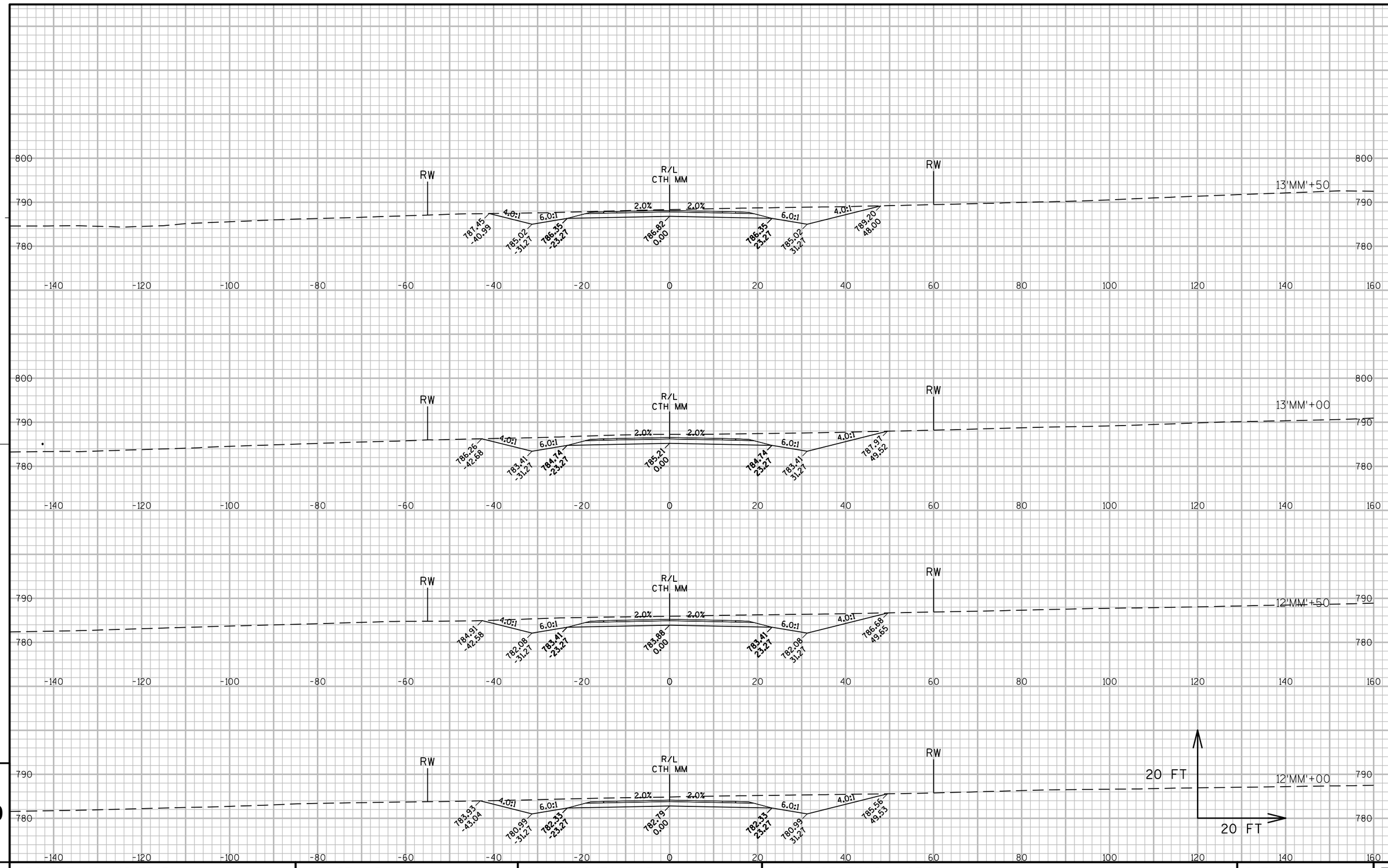
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET 643	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090601_XS (CTH MM).DWG
LAYOUT NAME - 090601-XS

PLOT DATE : 1/22/2020 9:55 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



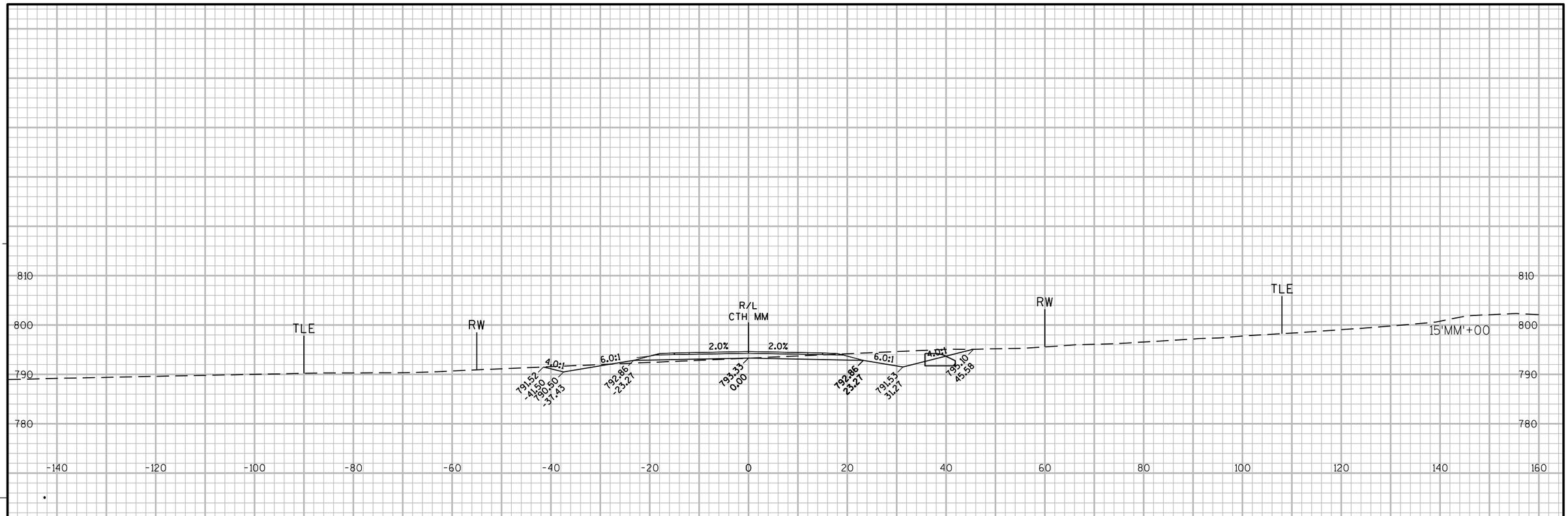
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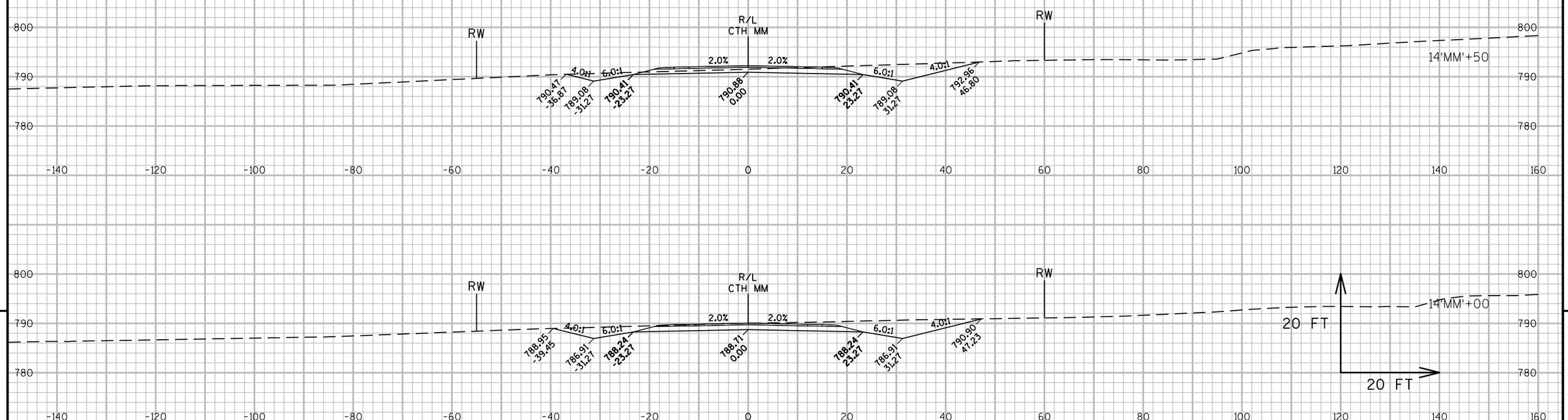
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET 644	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090601_XS (CTH MM).DWG
LAYOUT NAME - 090602-XS

PLOT DATE : 1/22/2020 9:55 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF





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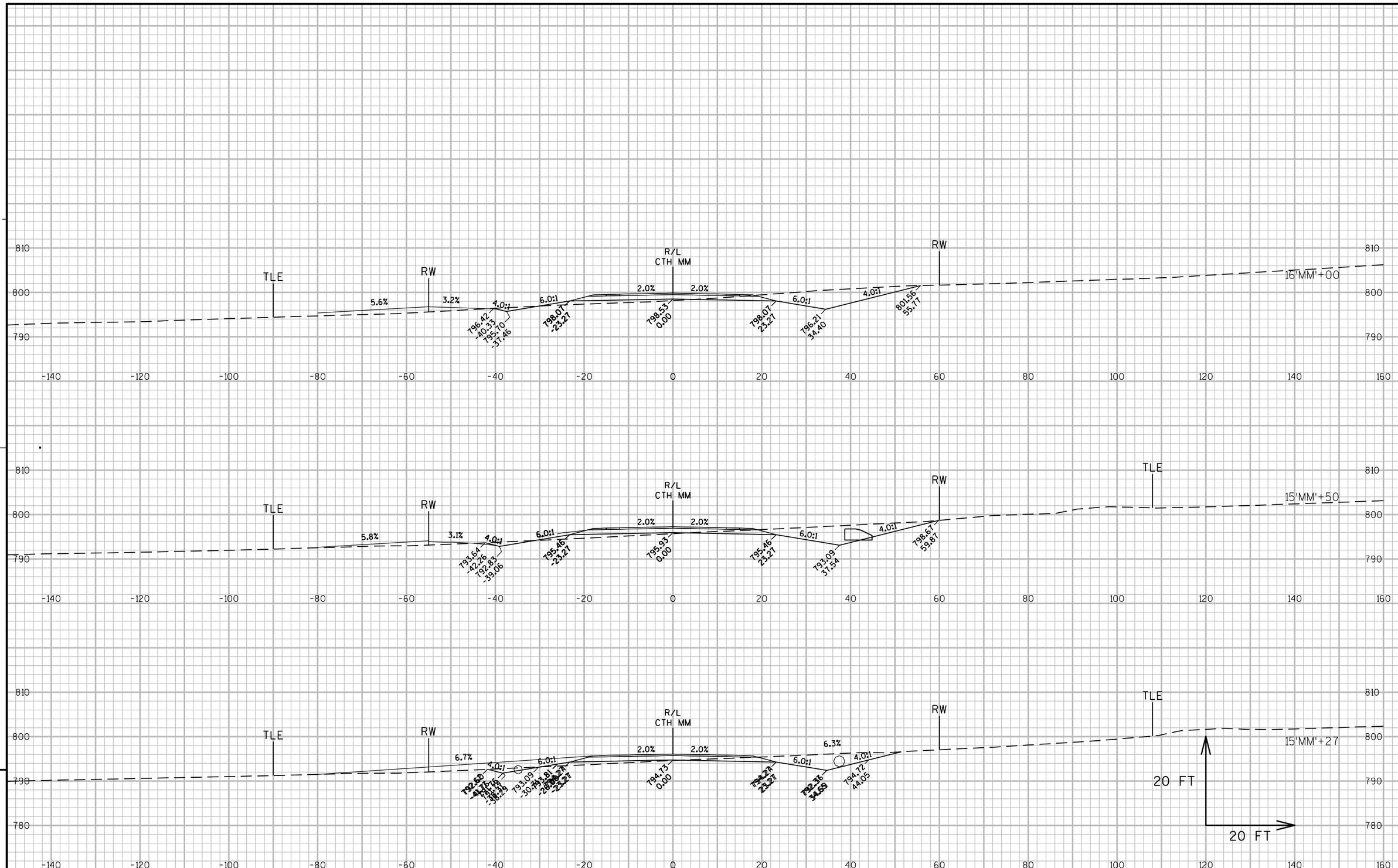
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET 645	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090601_XS (CTH MM).DWG
LAYOUT NAME - 090603-XS

PLOT DATE : 1/22/2020 9:55 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

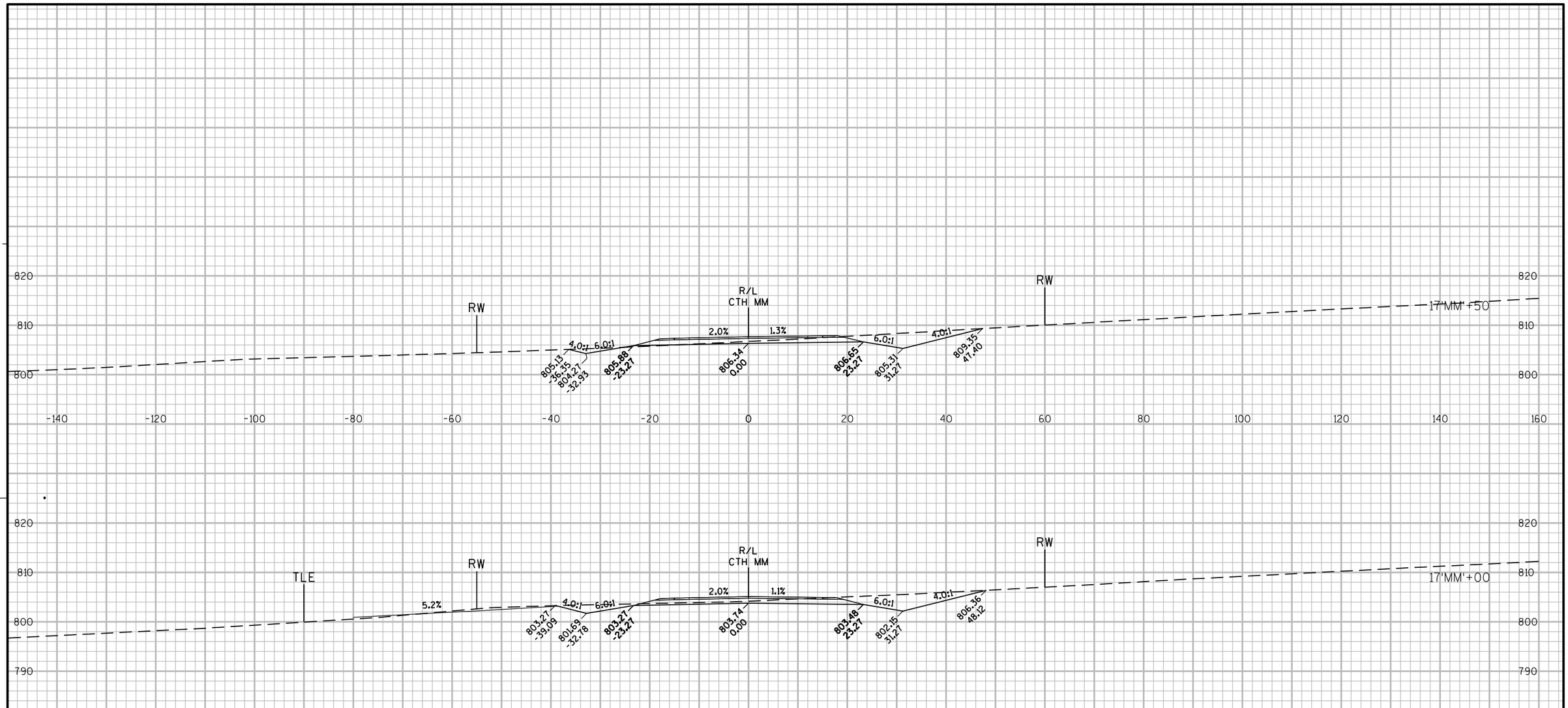


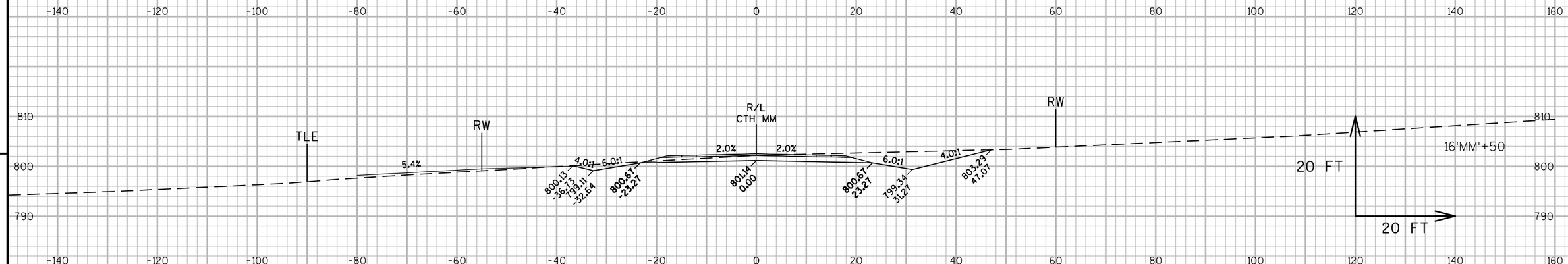
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET 646 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090601_XS (CTH MM).DWG
LAYOUT NAME - 090604-XS

PLOT DATE : 1/22/2020 9:55 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49





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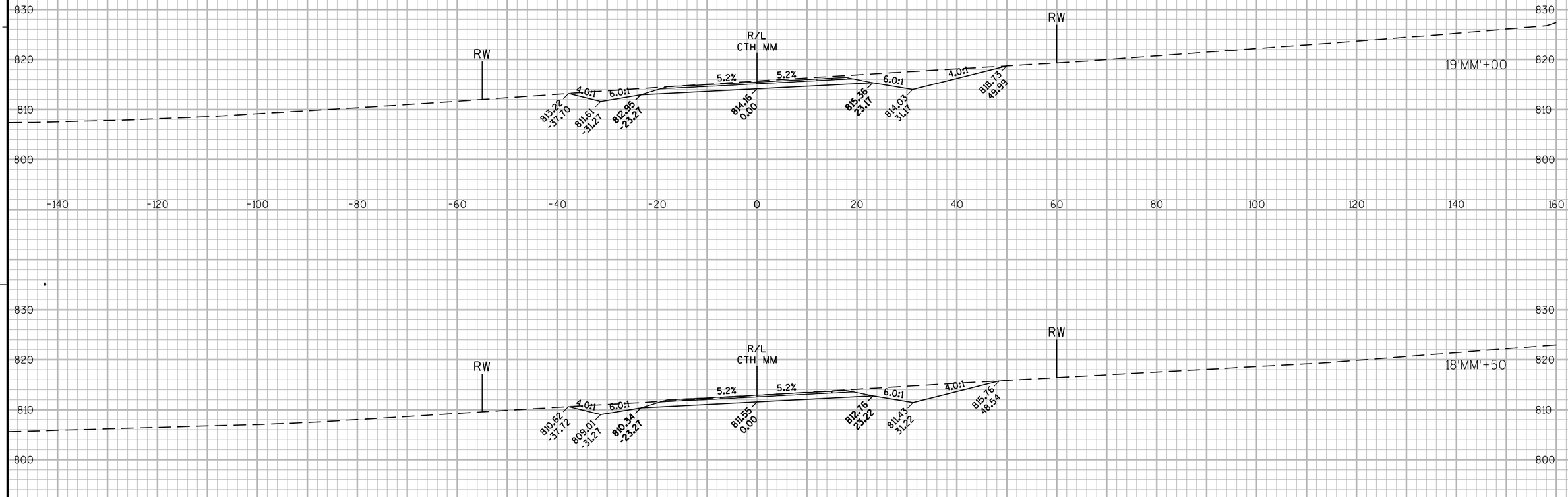
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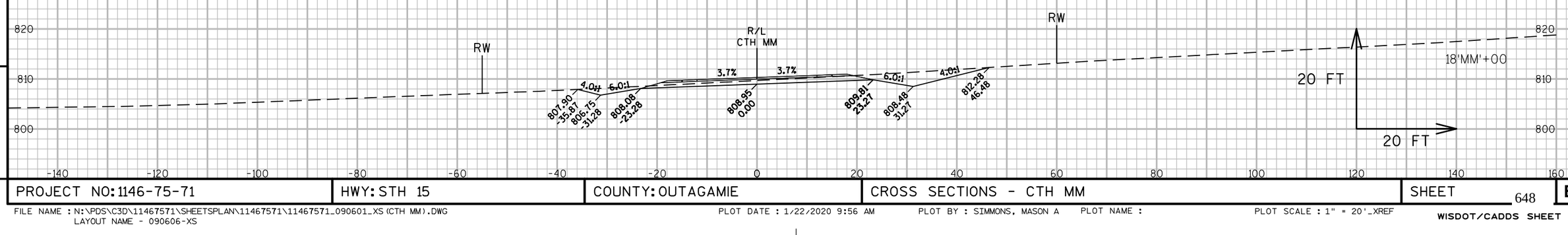
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FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090601_XS (CTH MM).DWG
LAYOUT NAME - 090605-XS

PLOT DATE : 1/22/2020 9:56 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



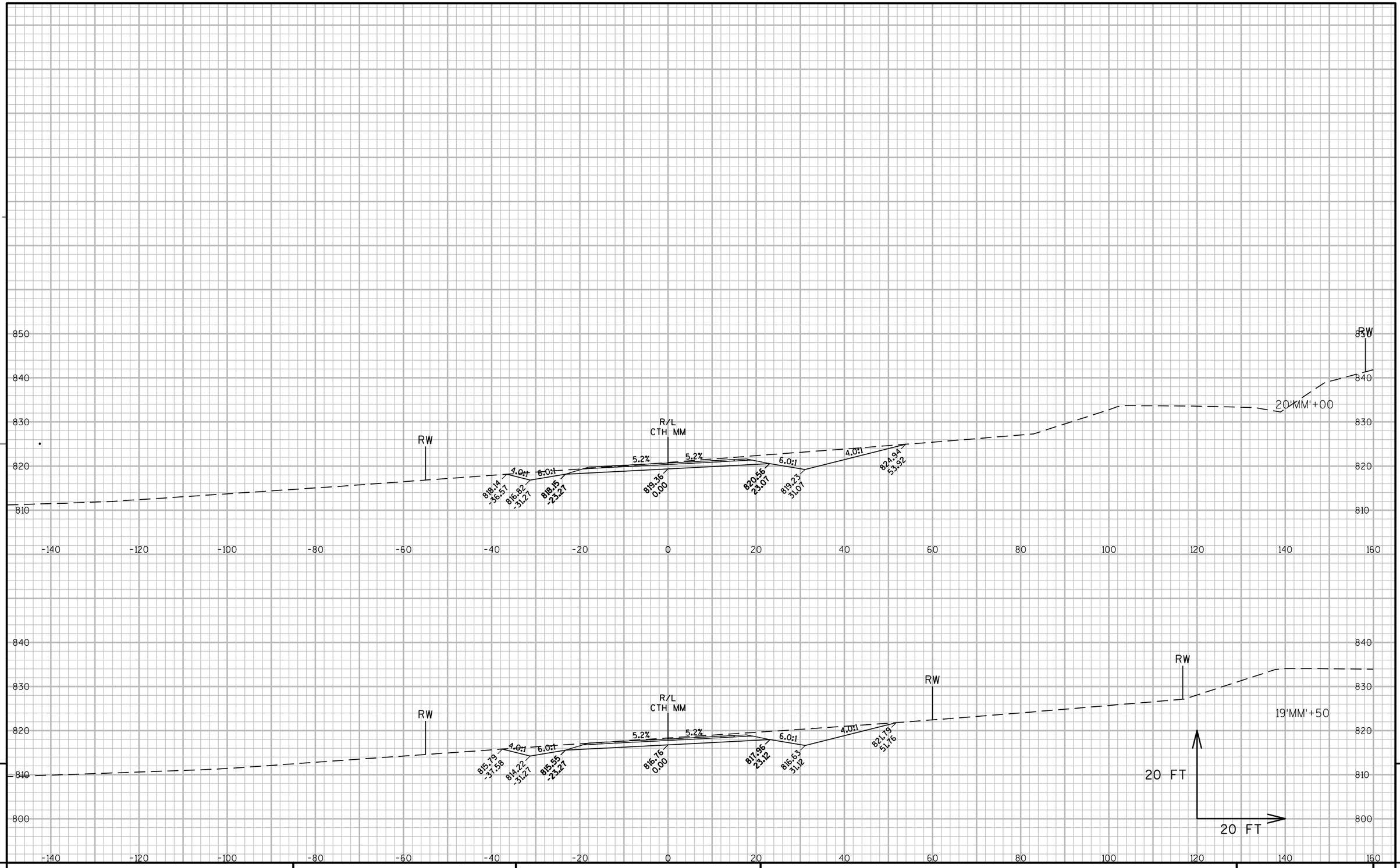


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET 648	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090601_XS (CTH MM).DWG
LAYOUT NAME - 090606-XS

PLOT DATE : 1/22/2020 9:56 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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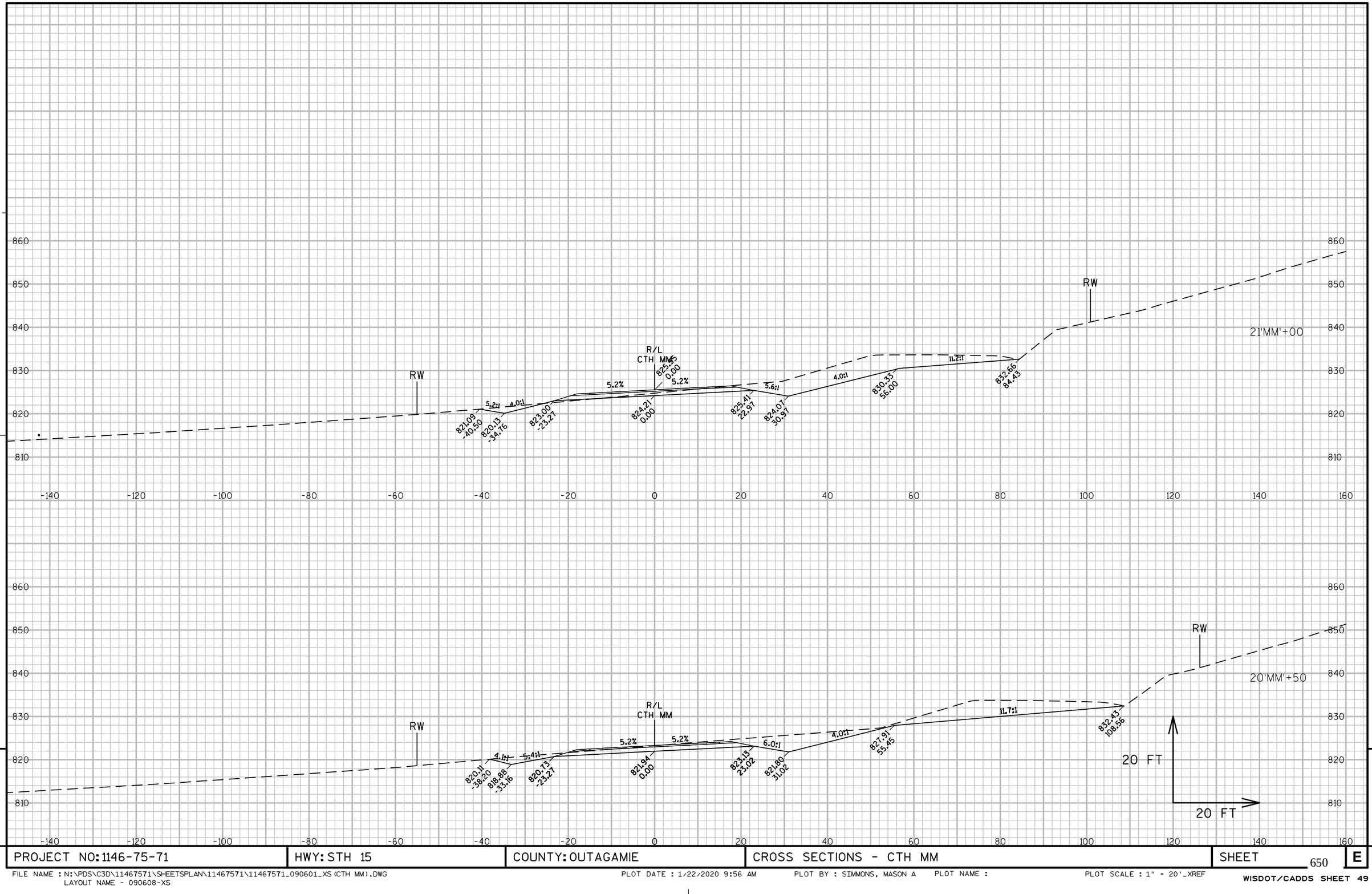
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET 649	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090601_XS (CTH MM).DWG
LAYOUT NAME - 090607-XS

PLOT DATE : 1/22/2020 9:56 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



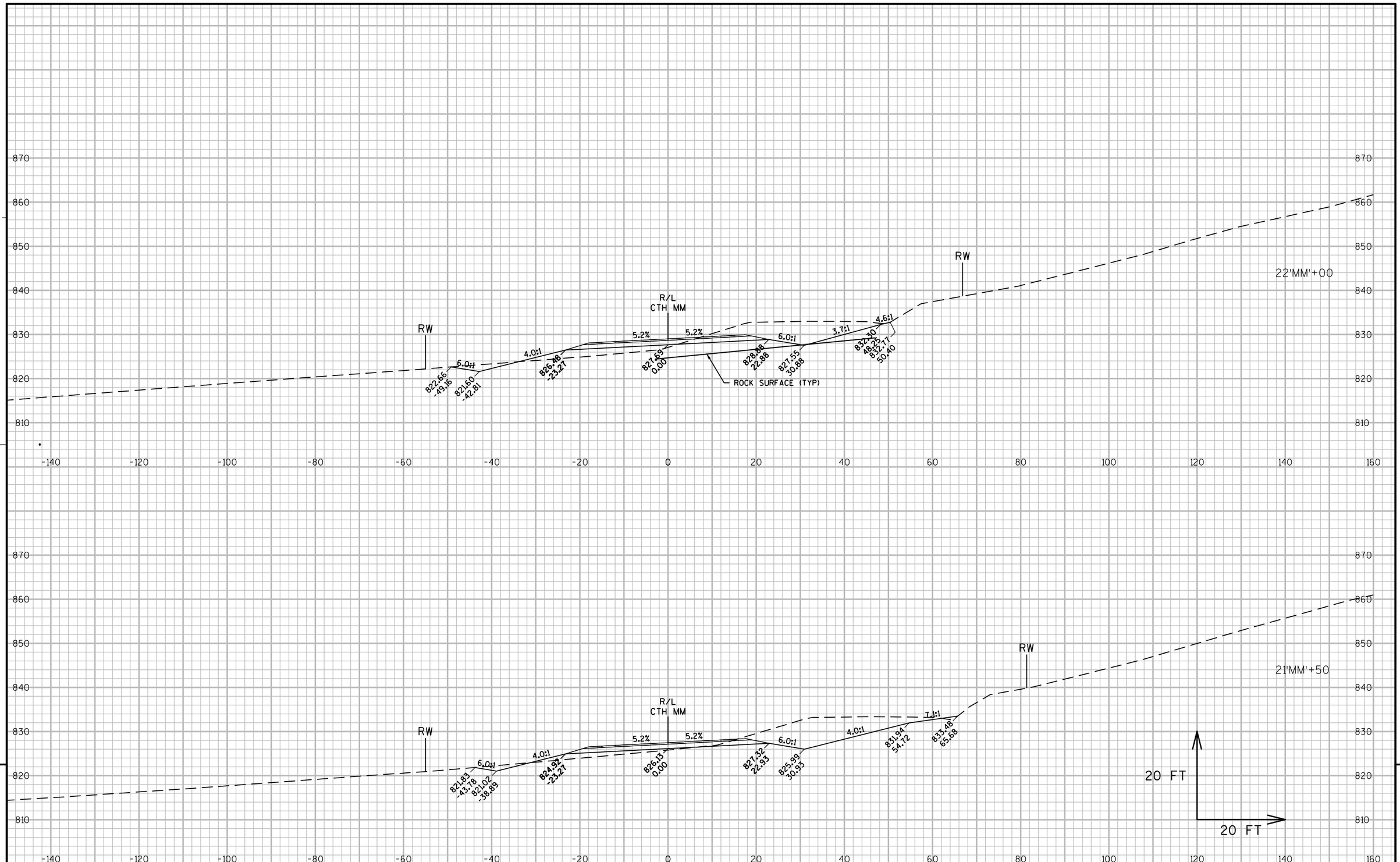
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET 650	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090601_XS (CTH MM).DWG
LAYOUT NAME - 090608-XS

PLOT DATE : 1/22/2020 9:56 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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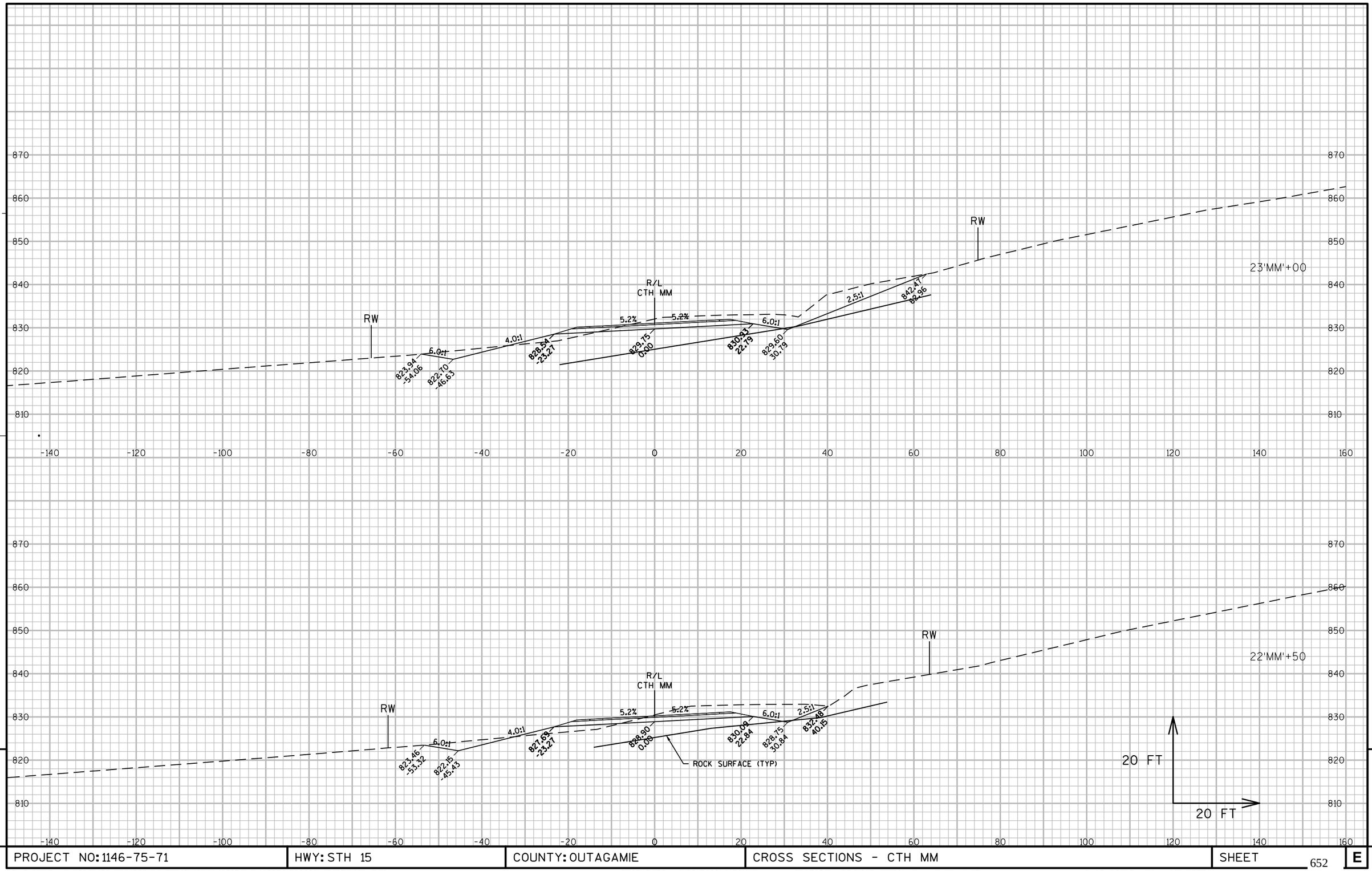
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET 651	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090601_XS (CTH MM).DWG
LAYOUT NAME - 090609-XS

PLOT DATE : 1/22/2020 9:56 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

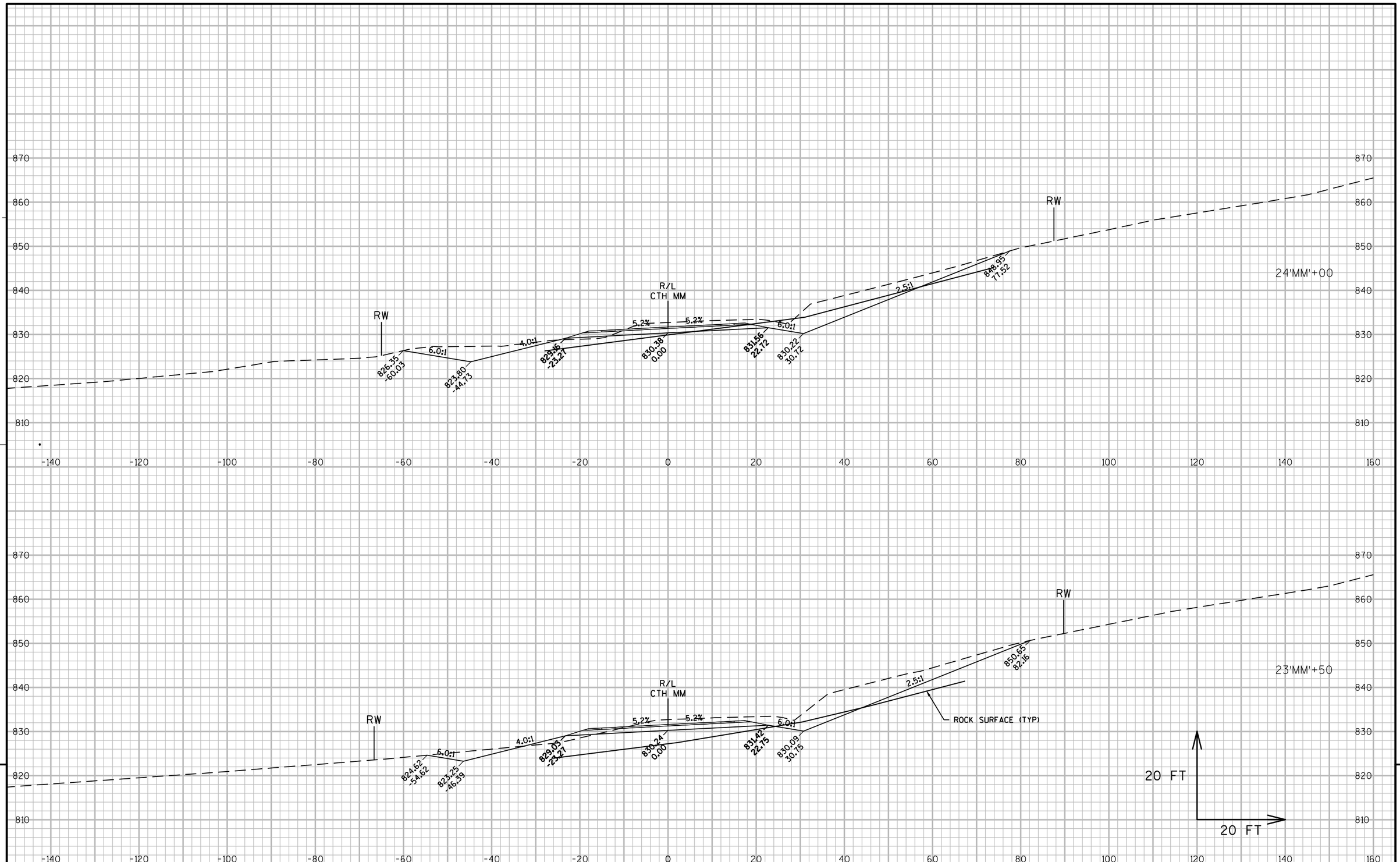


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FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090601_XS (CTH MM).DWG
LAYOUT NAME - 090610-XS

PLOT DATE : 1/22/2020 9:56 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

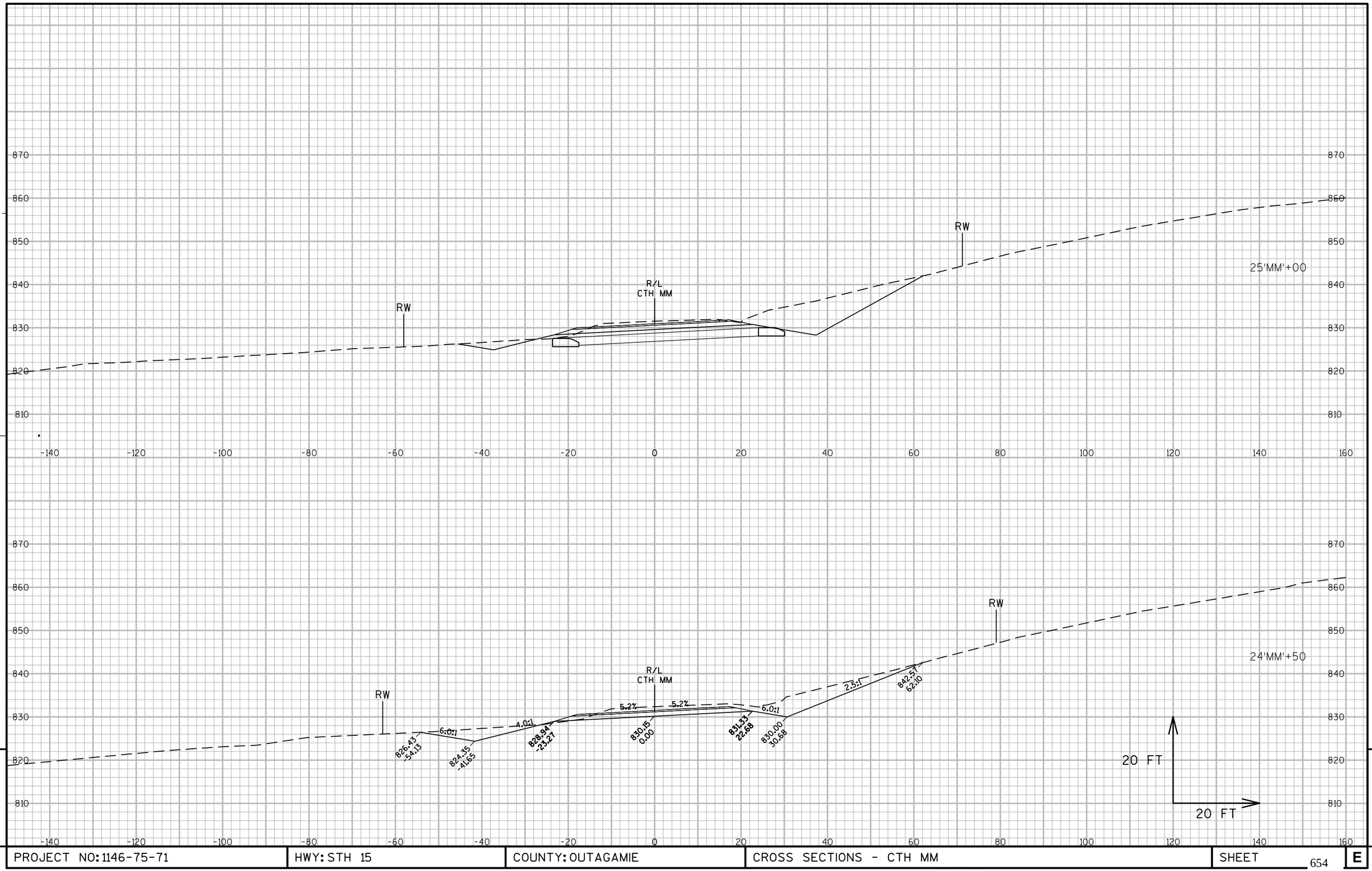


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET 653 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090601_XS (CTH MM).DWG
LAYOUT NAME - 090611-XS

PLOT DATE : 1/22/2020 9:56 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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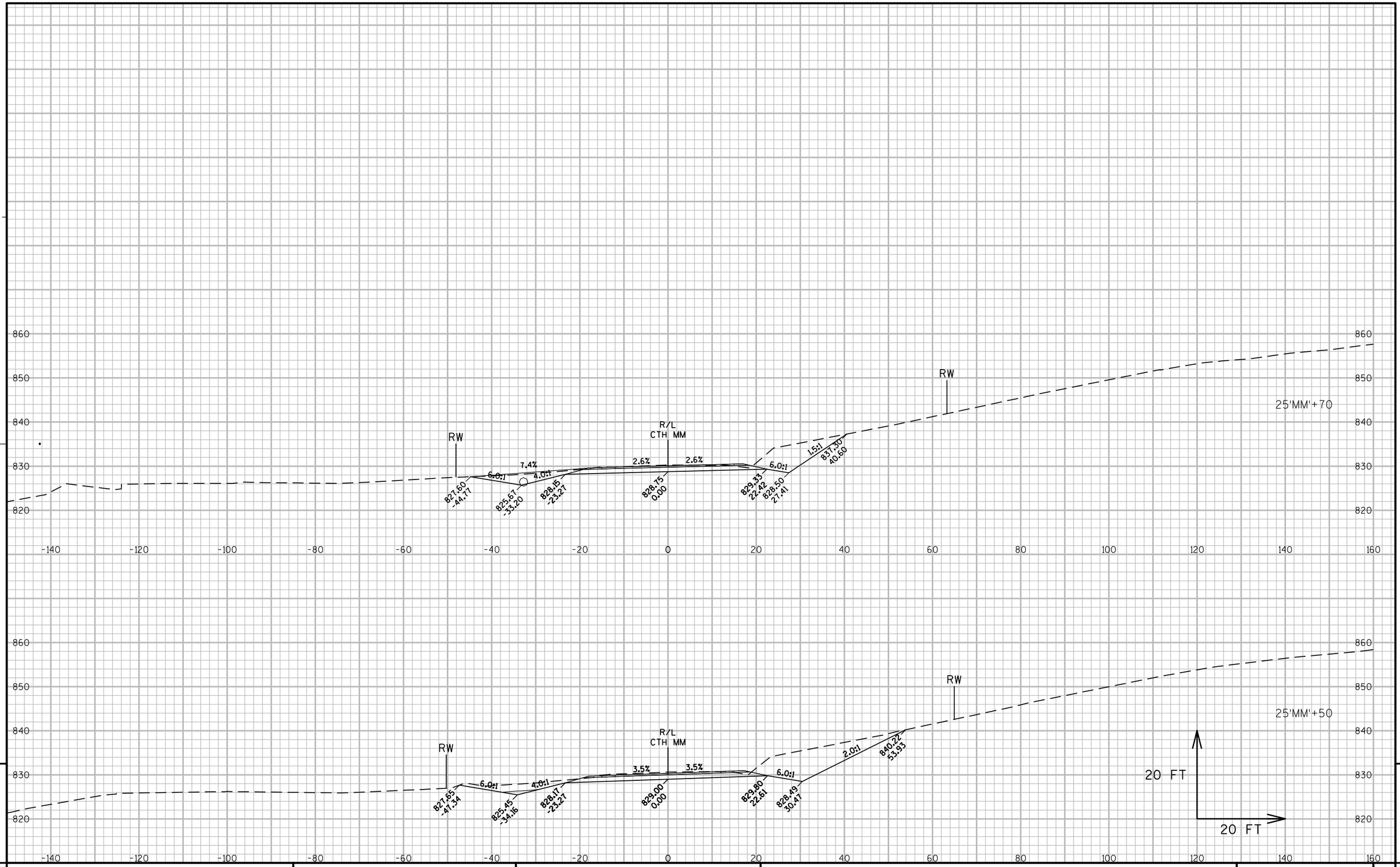
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LAYOUT NAME - 090612-XS

PLOT DATE : 1/22/2020 9:56 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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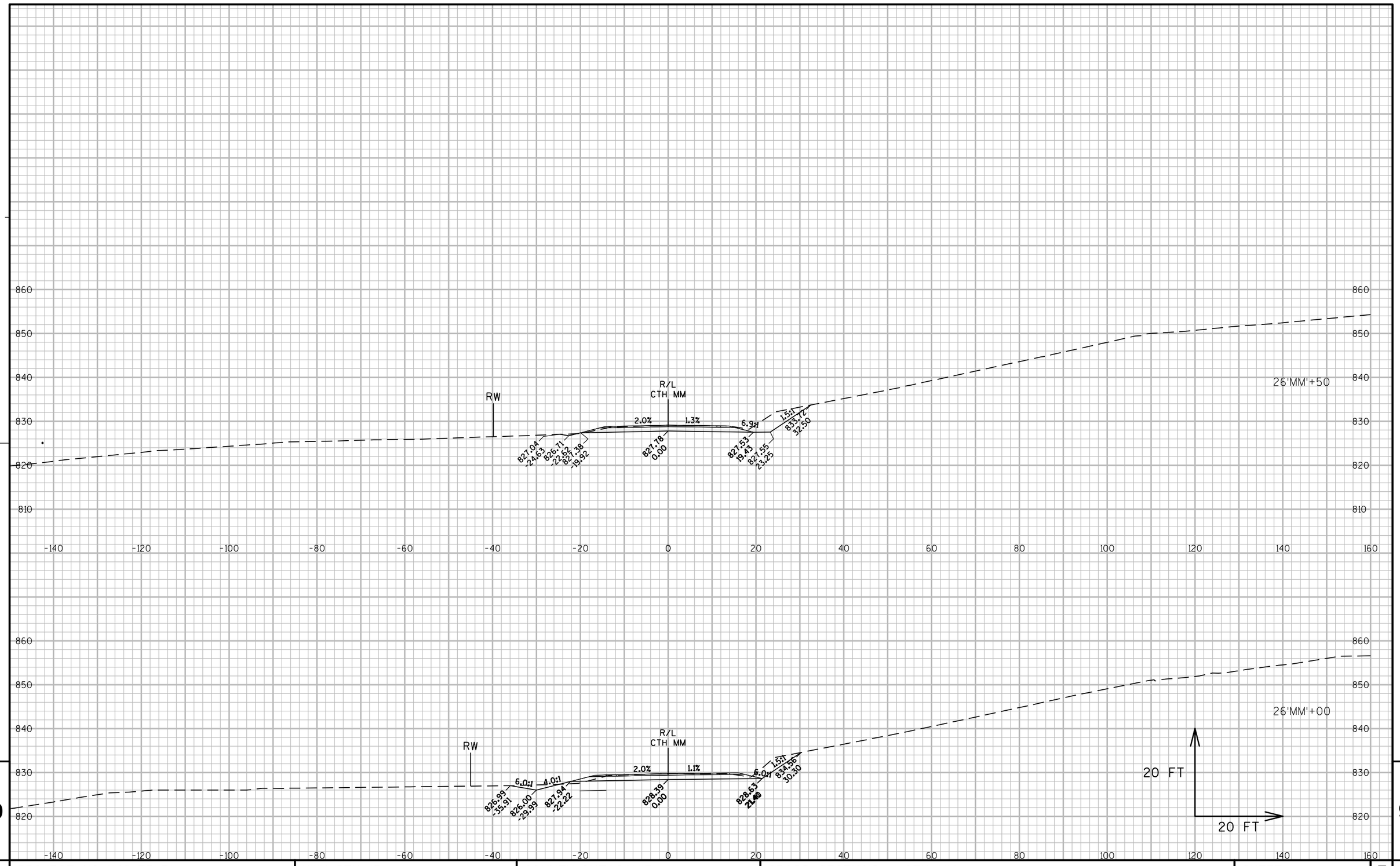
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET 655	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090601_XS (CTH MM).DWG
LAYOUT NAME - 090613-XS

PLOT DATE : 1/22/2020 9:56 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

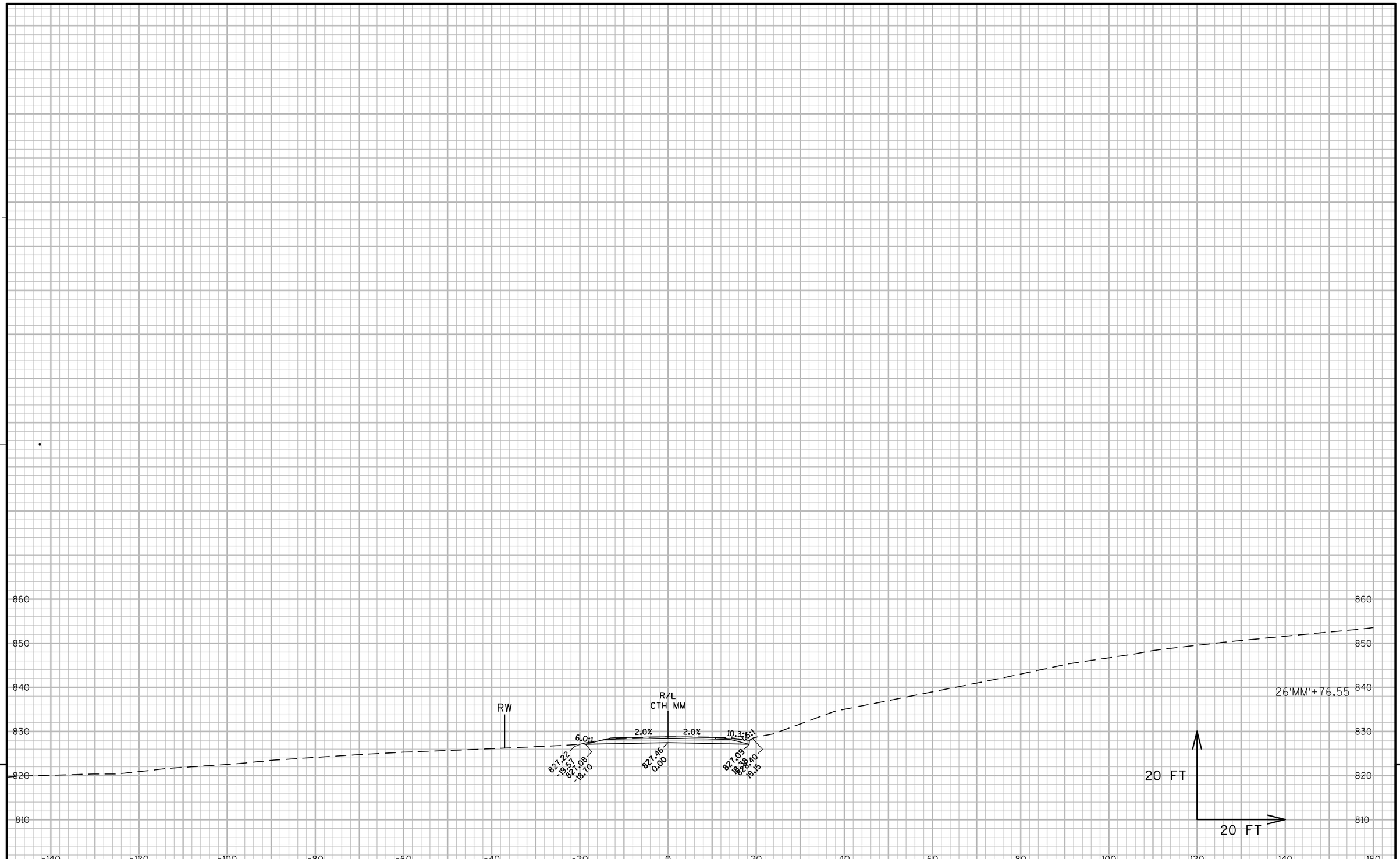


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET 656	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090601_XS (CTH MM).DWG
LAYOUT NAME - 090614-XS

PLOT DATE : 1/22/2020 9:56 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



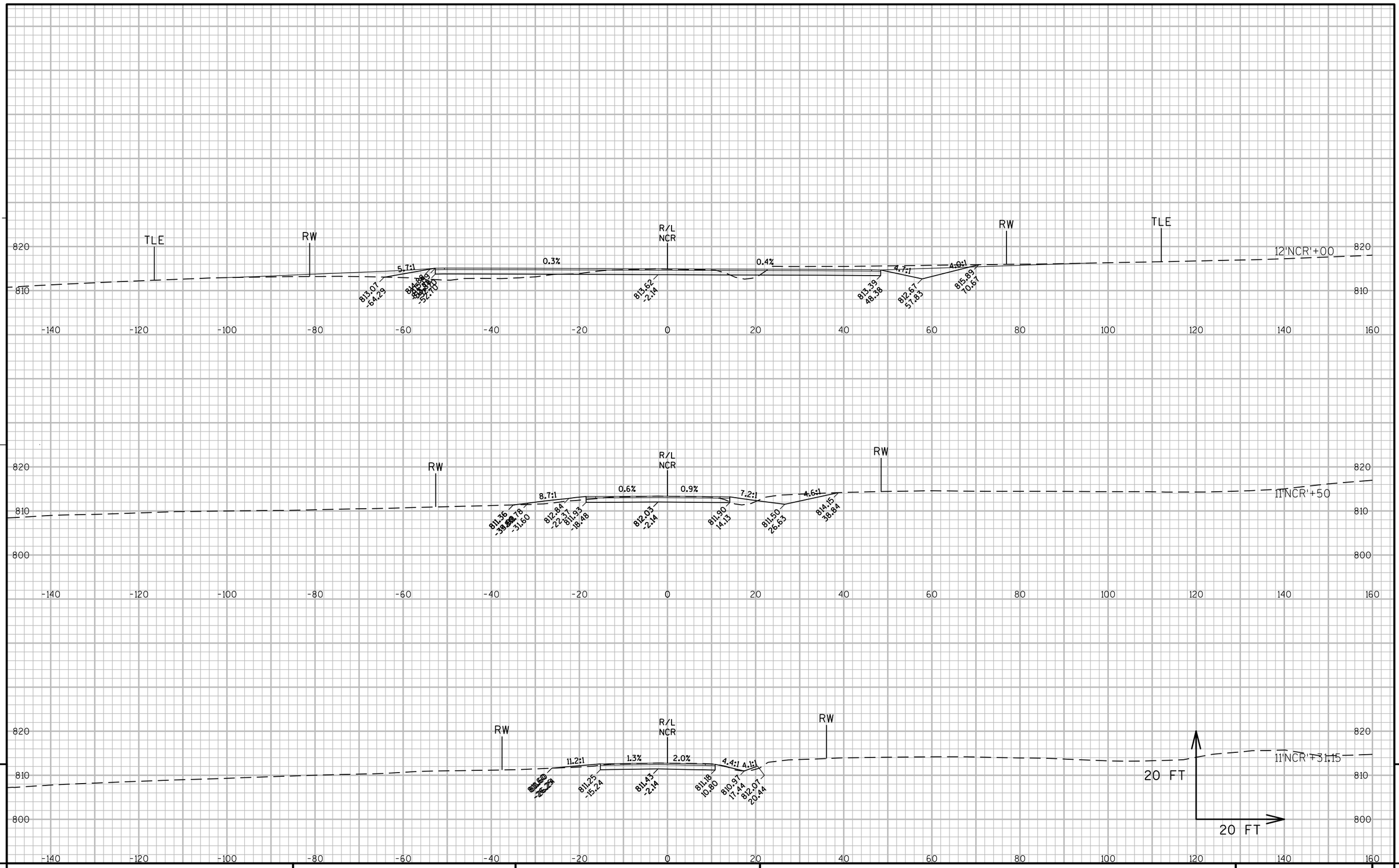
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET 657	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090601_XS (CTH MM).DWG
LAYOUT NAME - 090615-XS

PLOT DATE : 1/22/2020 9:56 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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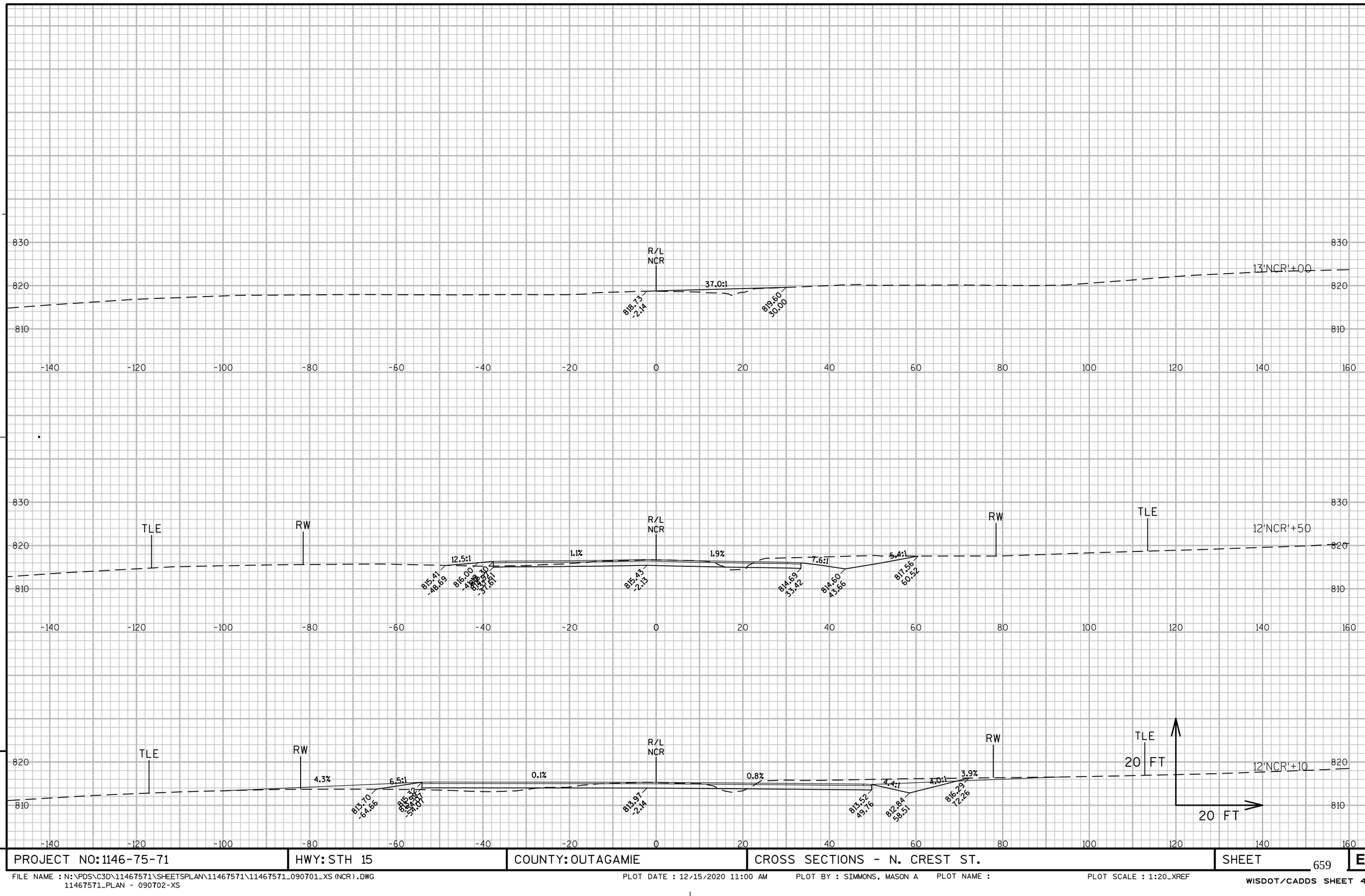
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - N. CREST ST.	SHEET 658	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090701_XS (NCR).DWG
11467571_PLAN - 090701-XS

PLOT DATE : 12/15/2020 11:00 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

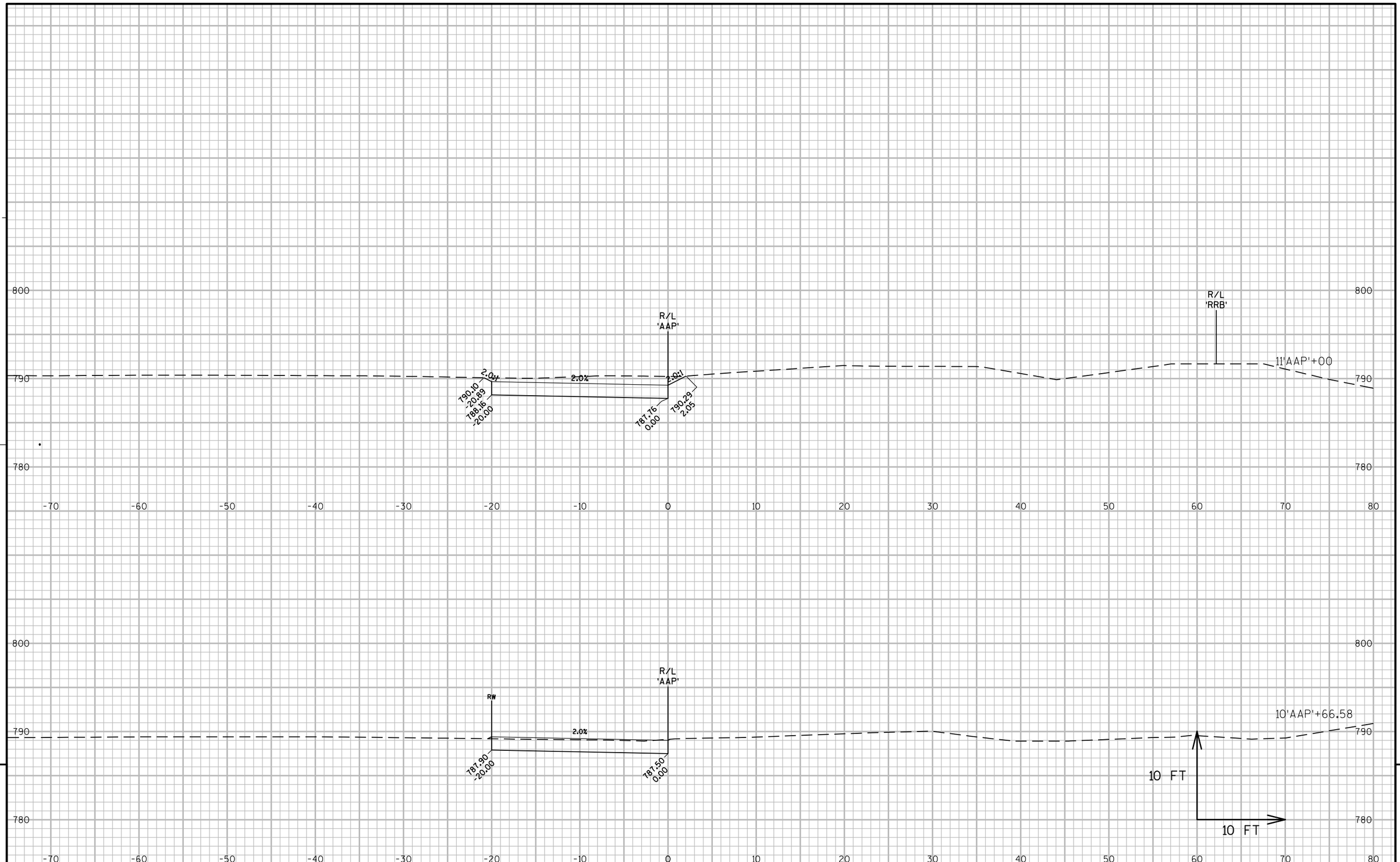
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - N. CREST ST.	SHEET 659	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090701_XS(NCR).DWG
11467571_PLAN - 090702-XS

PLOT DATE : 12/15/2020 11:00 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

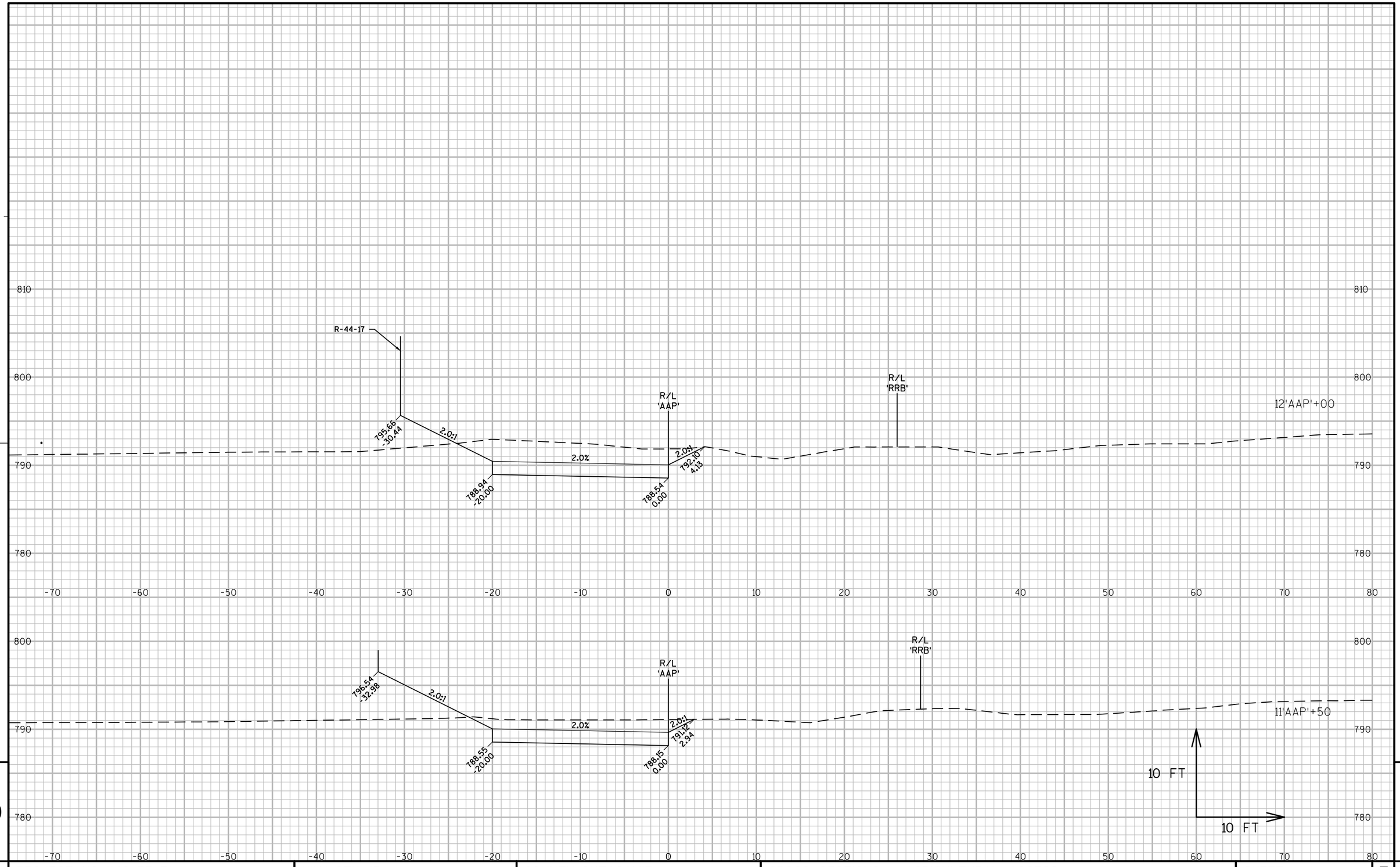


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET 660 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090901_XS_02_AGRICULTURE

PLOT DATE : 1/22/2020 9:57 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



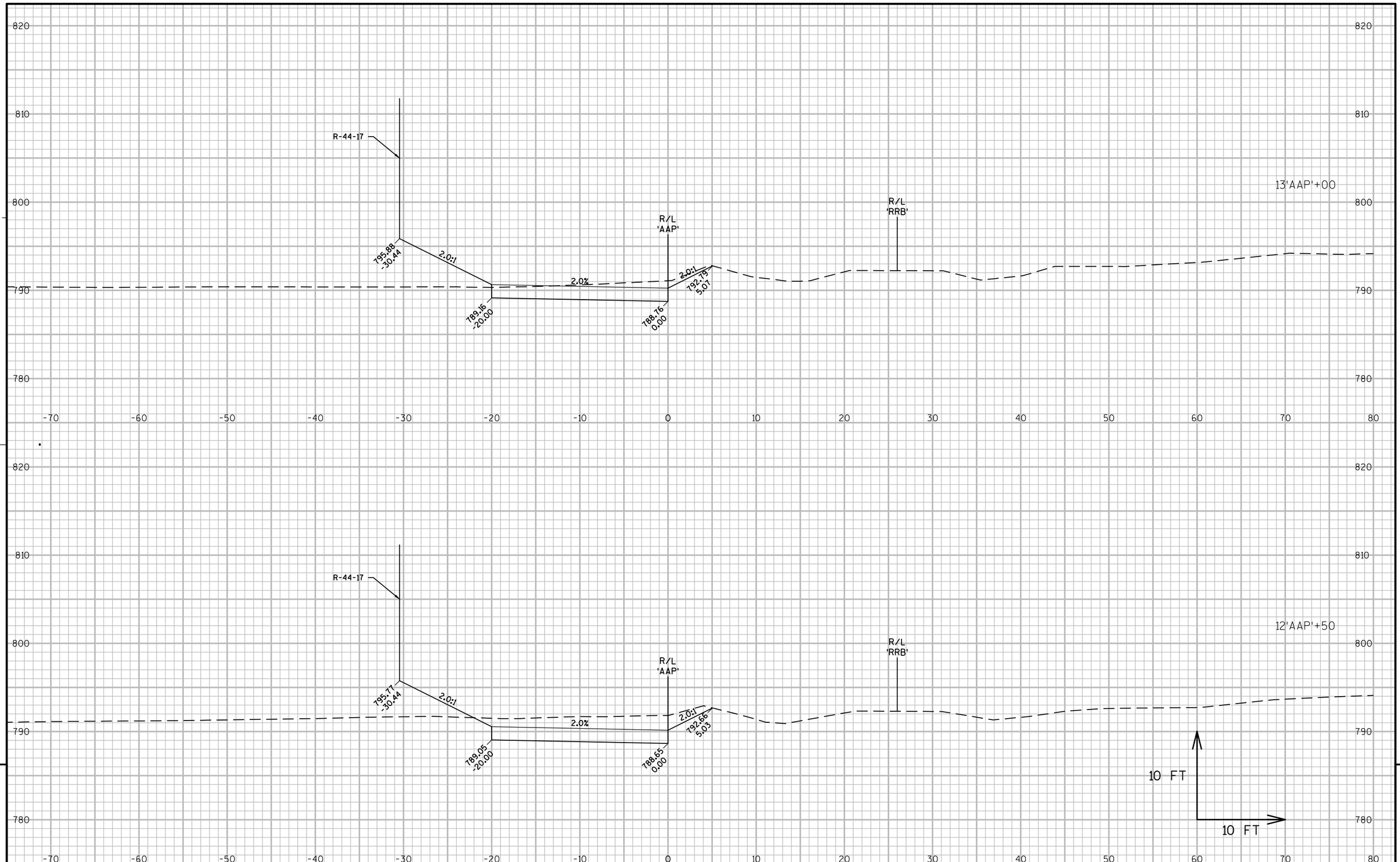
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9

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET 661	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090902_XS_02_AGRICULTURE

PLOT DATE : 1/22/2020 9:57 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF



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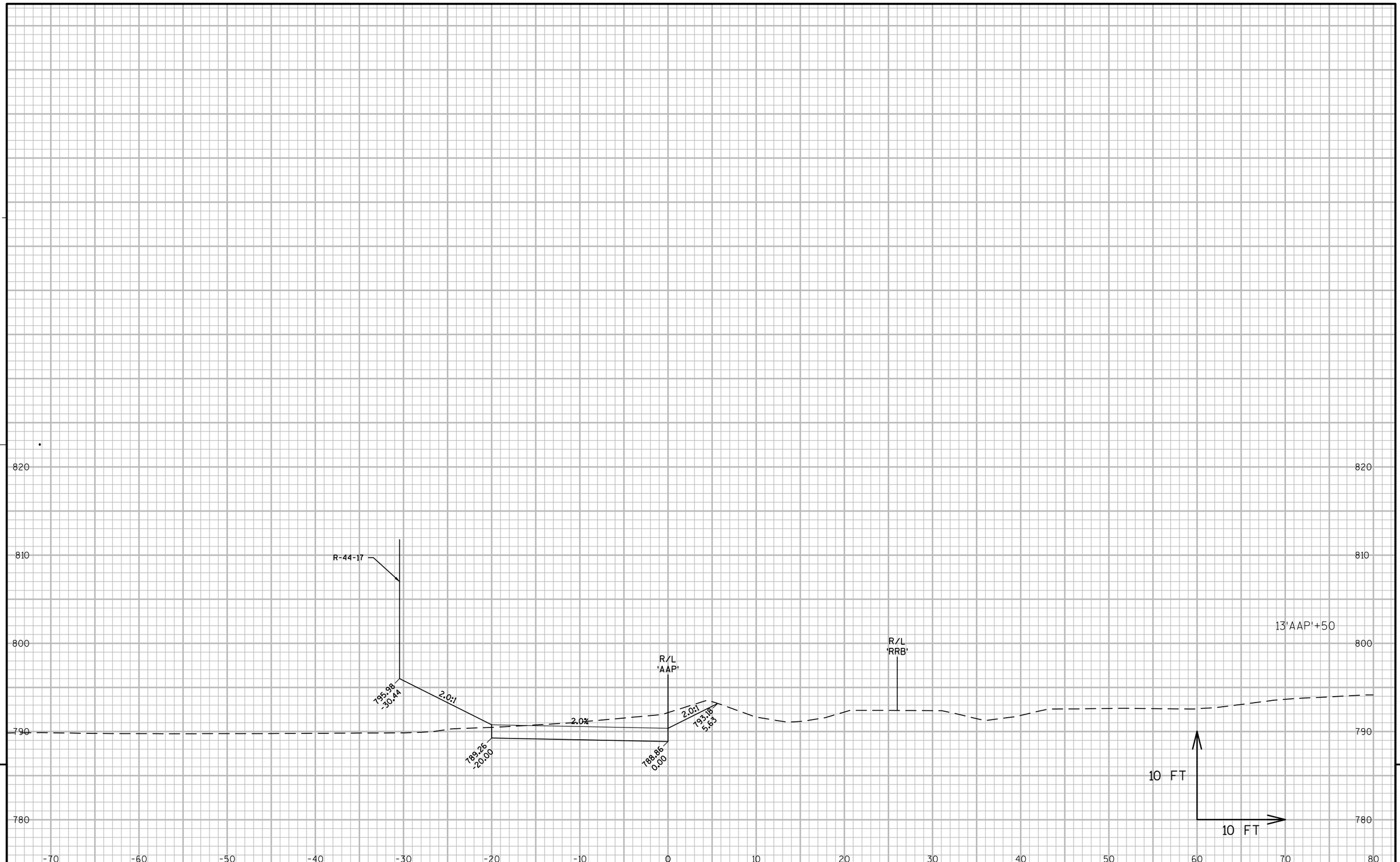
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET 662 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090903_XS_02_AGRICULTURE

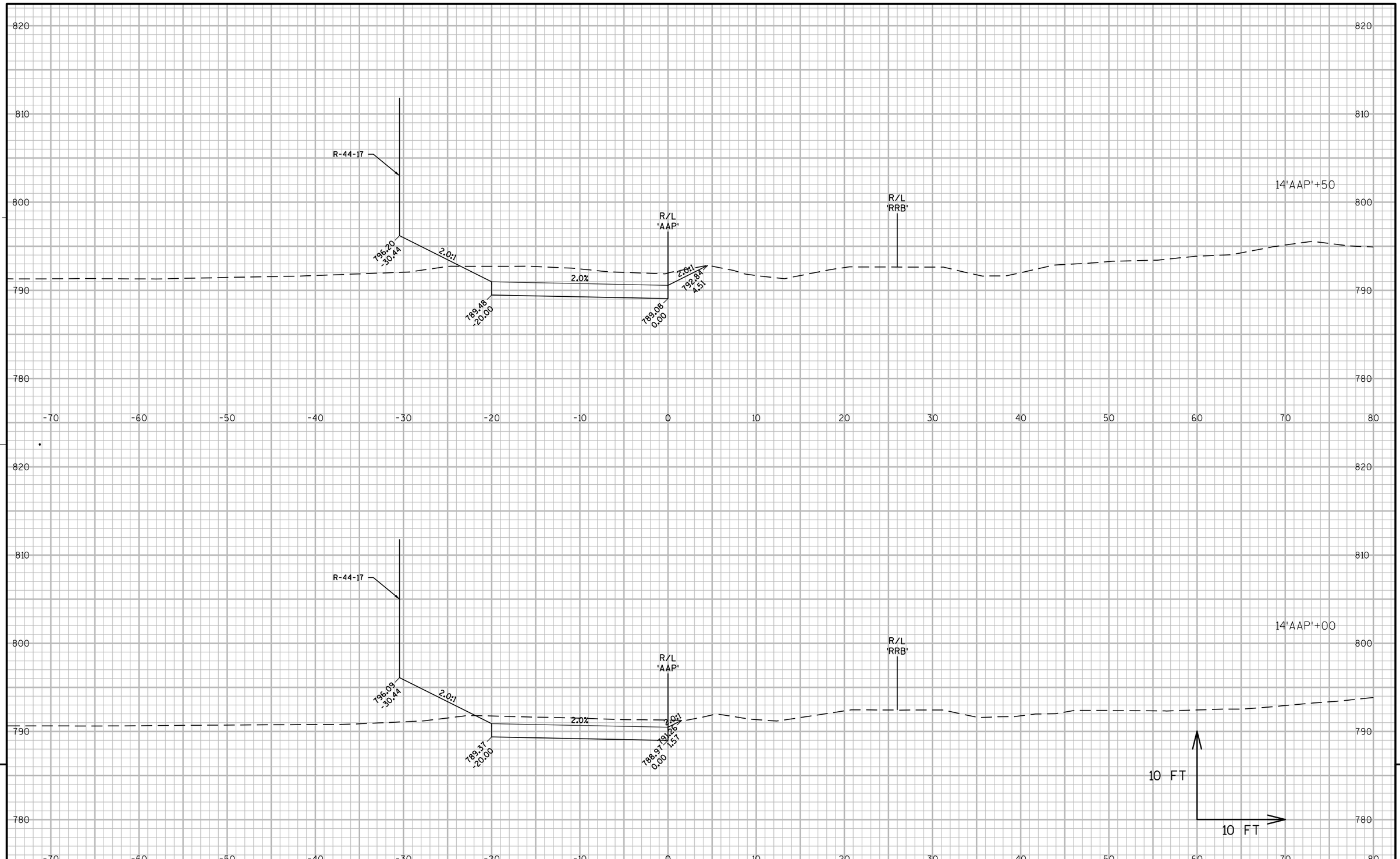
PLOT DATE : 1/22/2020 9:57 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



9

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET 663 E



9

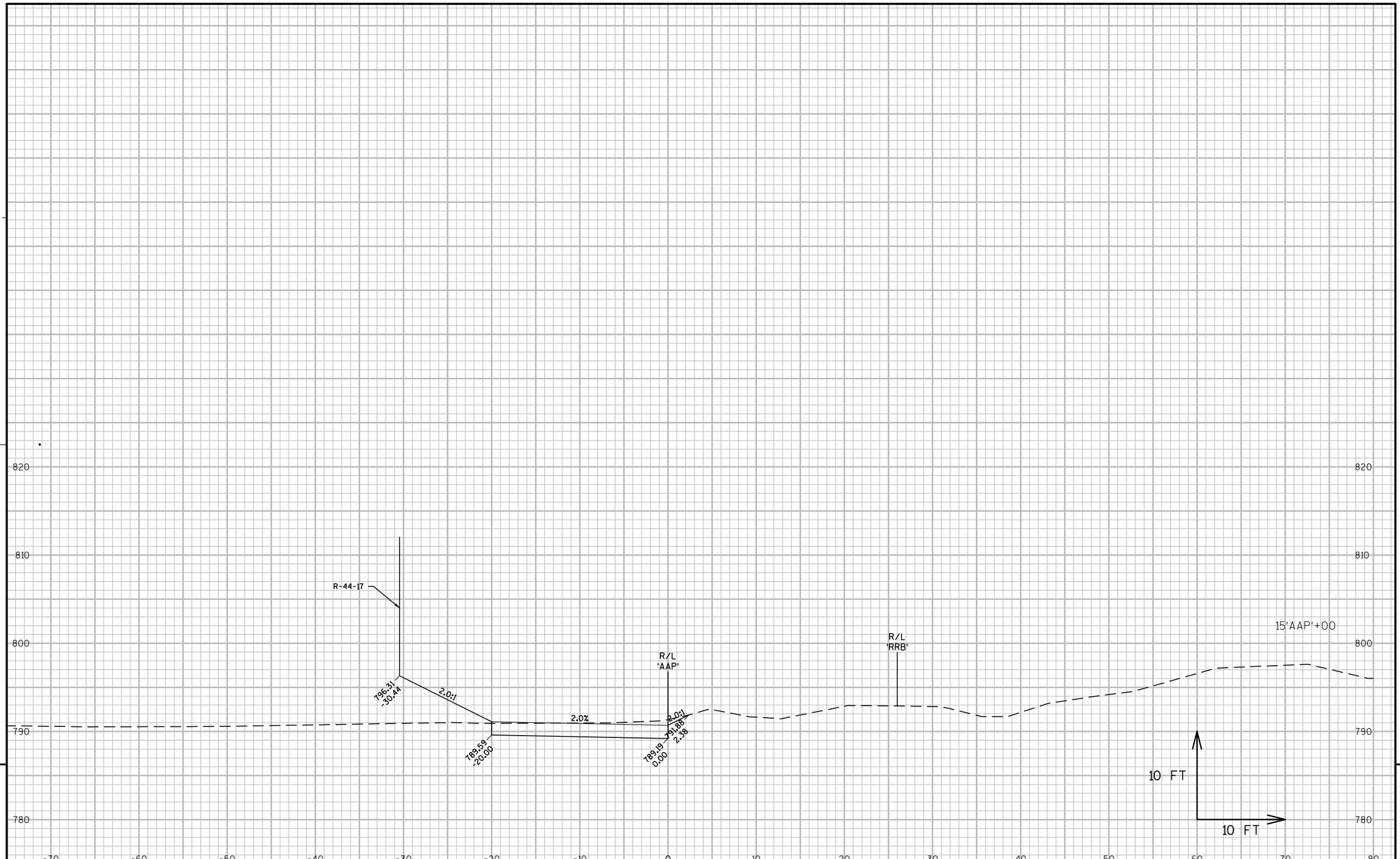
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET 664 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090905_XS_02_AGRICULTURE

PLOT DATE : 1/22/2020 9:57 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



9

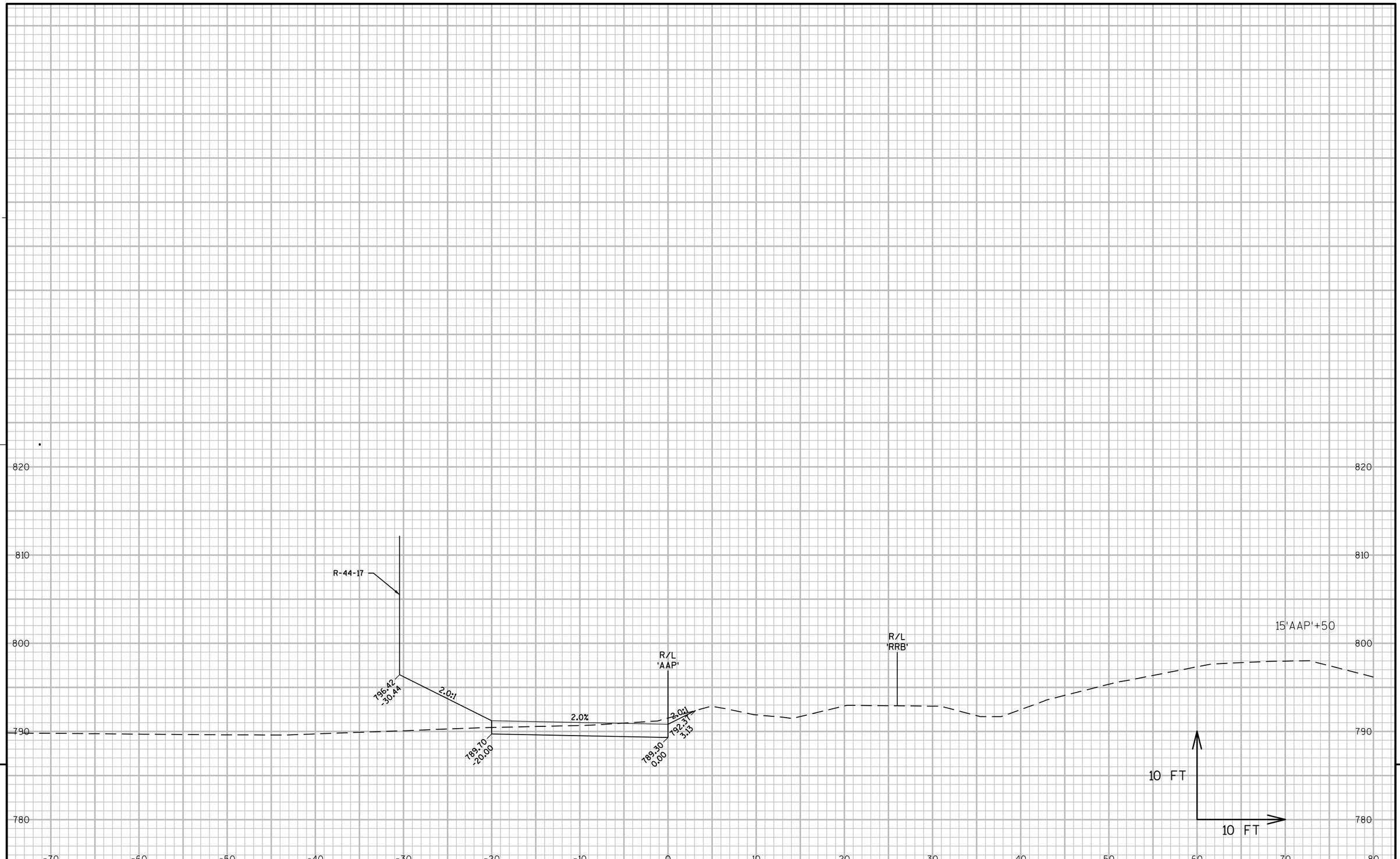
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET 665 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090906_XS_02_AGRICULTURE

PLOT DATE : 1/22/2020 9:57 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



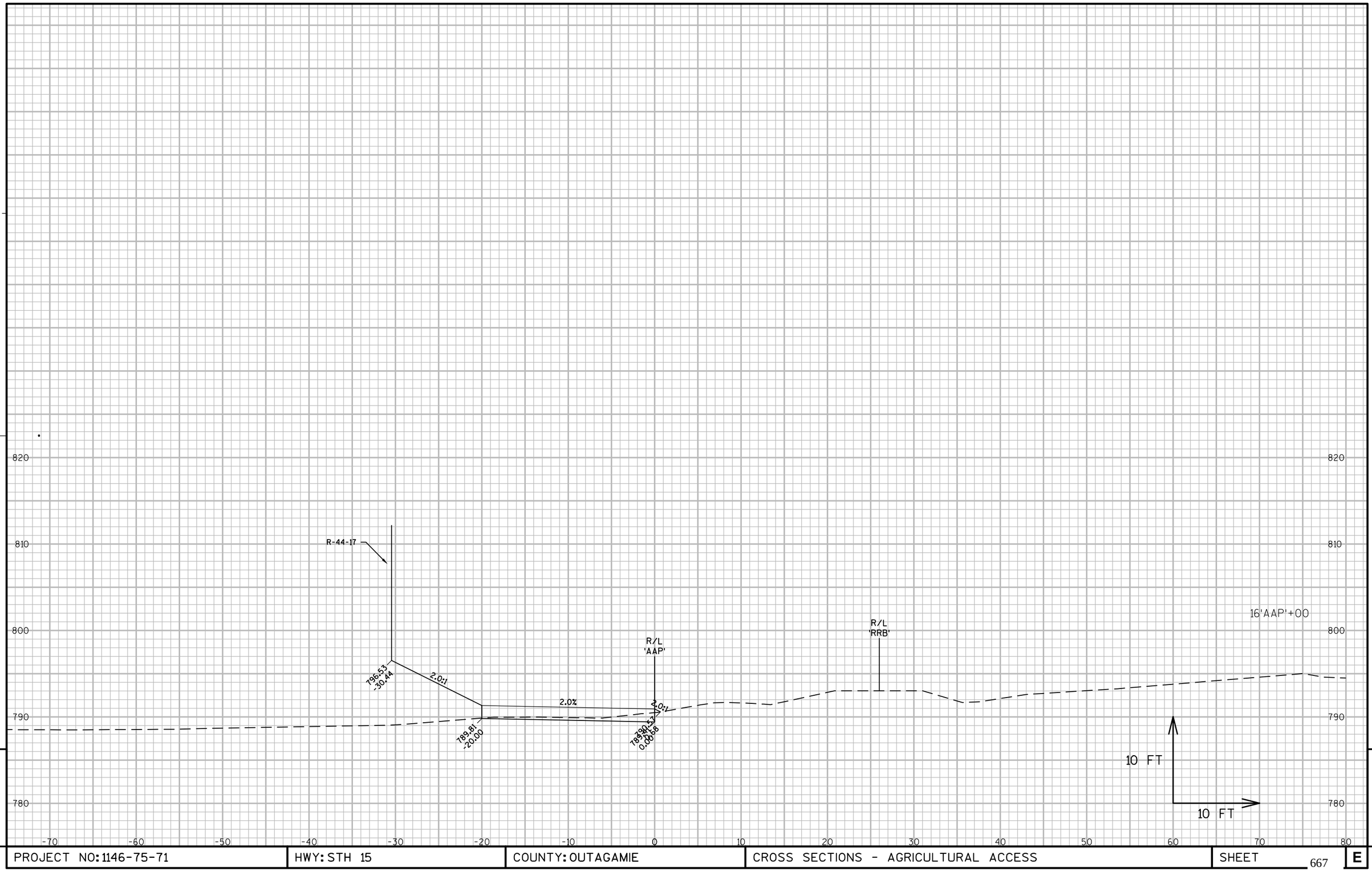
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET 666 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090907_XS_02_AGRICULTURE

PLOT DATE : 1/22/2020 9:57 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



9

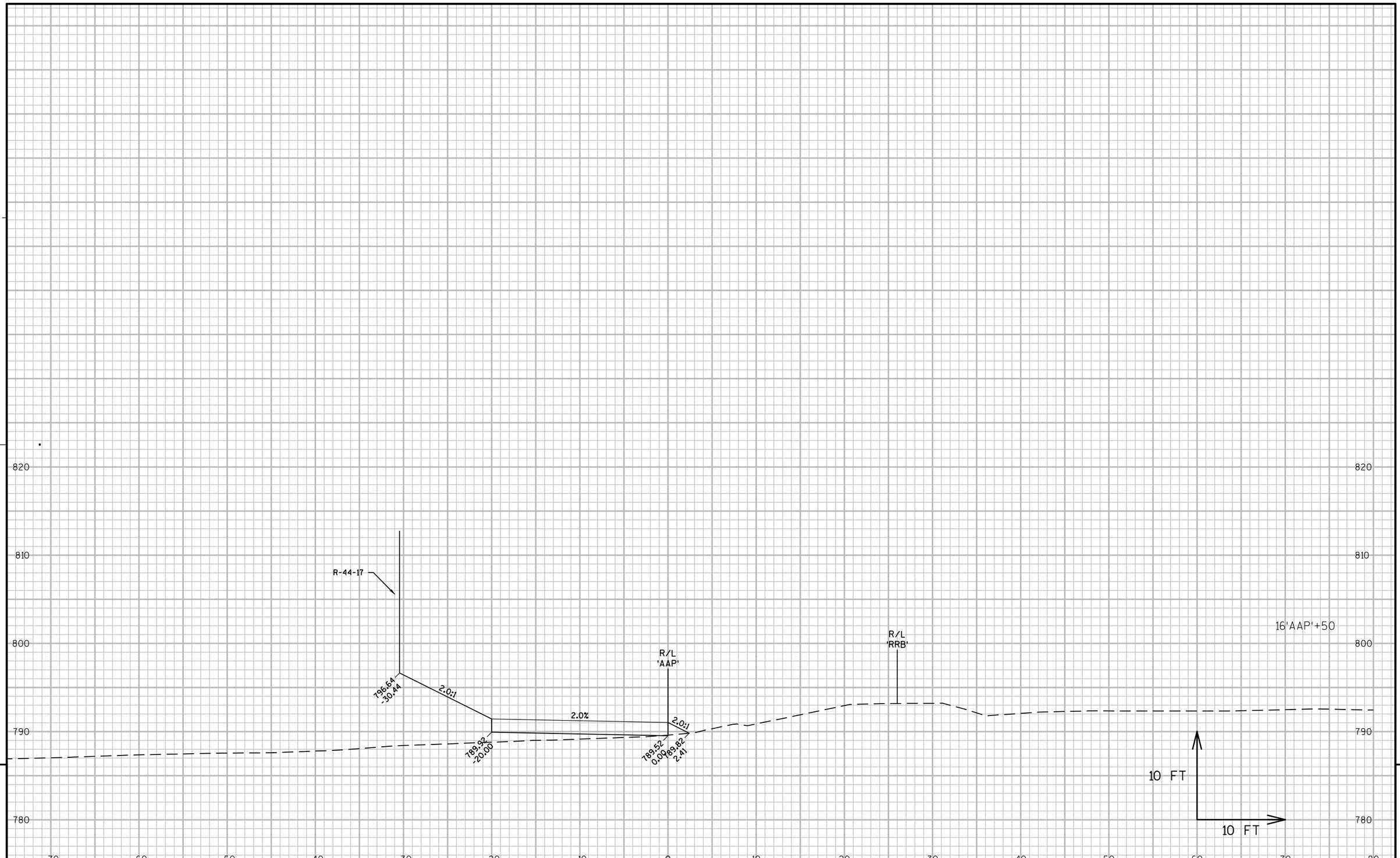
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET 667	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090908_XS_02_AGRICULTURE

PLOT DATE : 1/22/2020 9:57 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



9

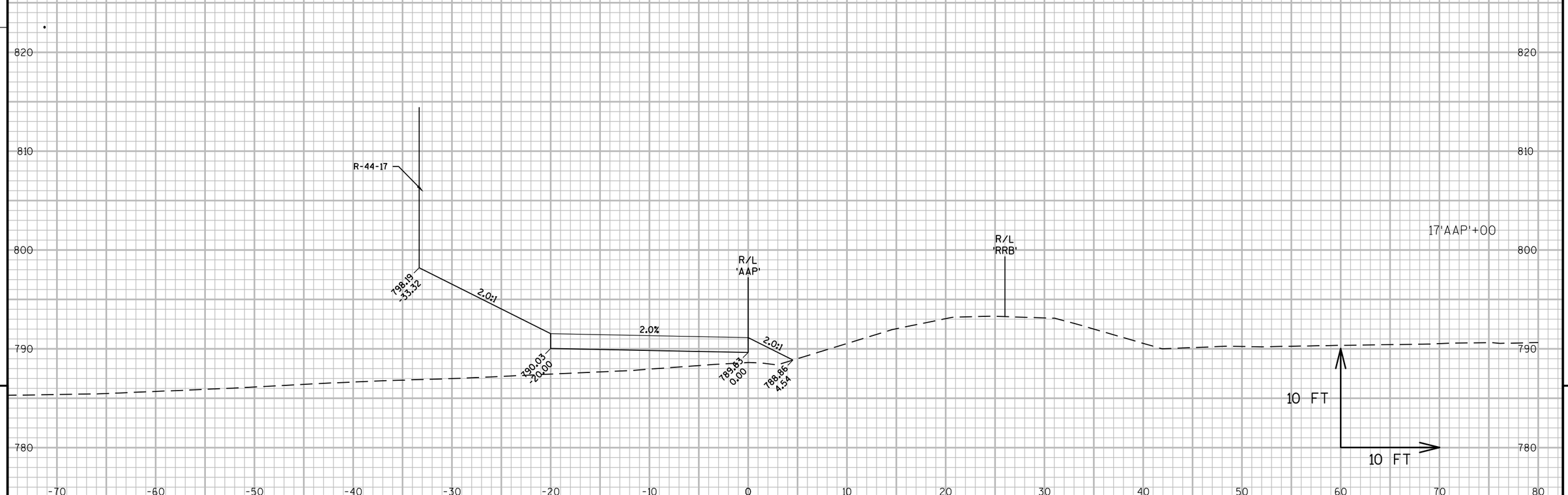
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET 668 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090909_XS_02_AGRICULTURE

PLOT DATE : 1/22/2020 9:57 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



9

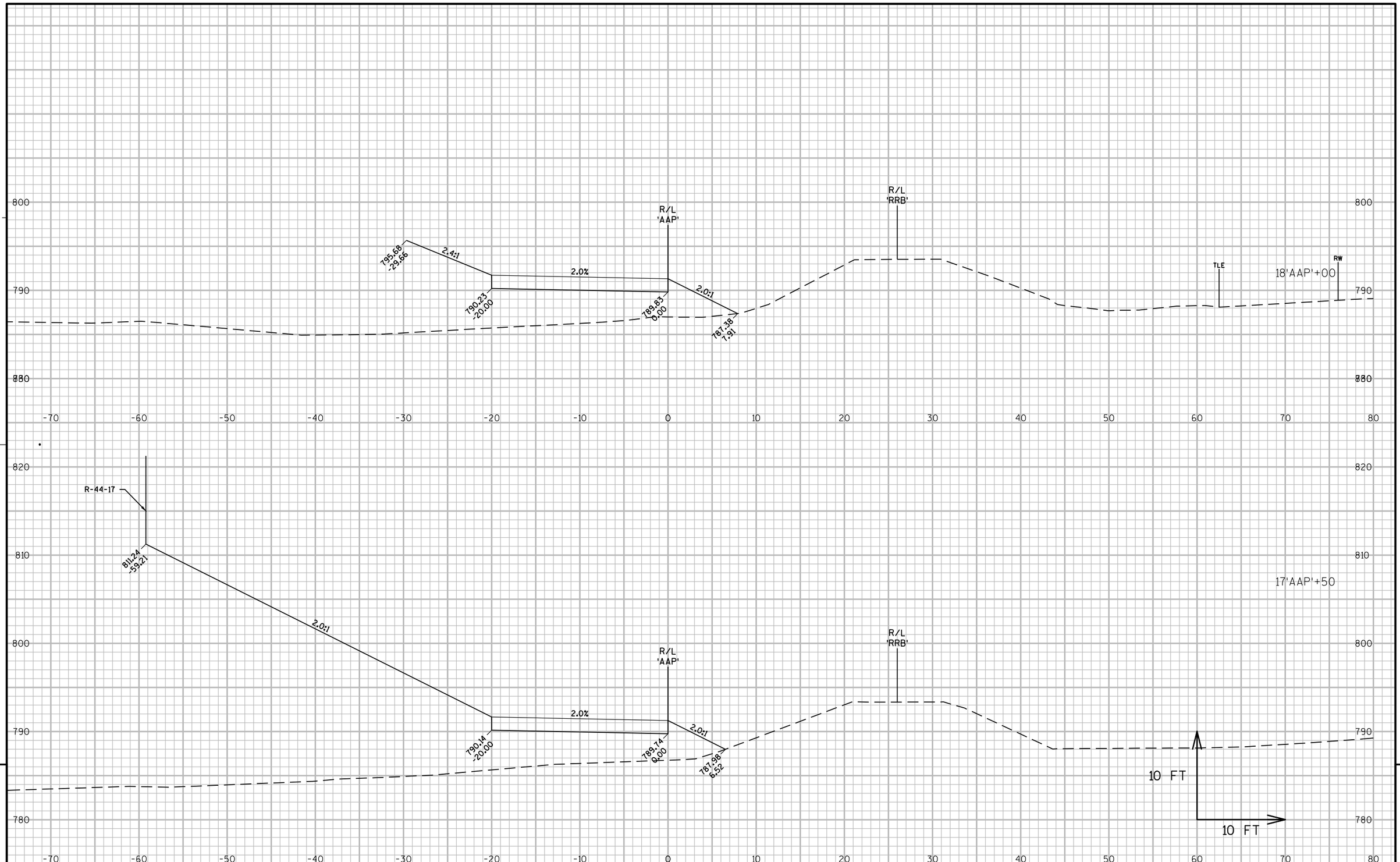
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET 669 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090910_XS_02_AGRICULTURE

PLOT DATE : 1/22/2020 9:57 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



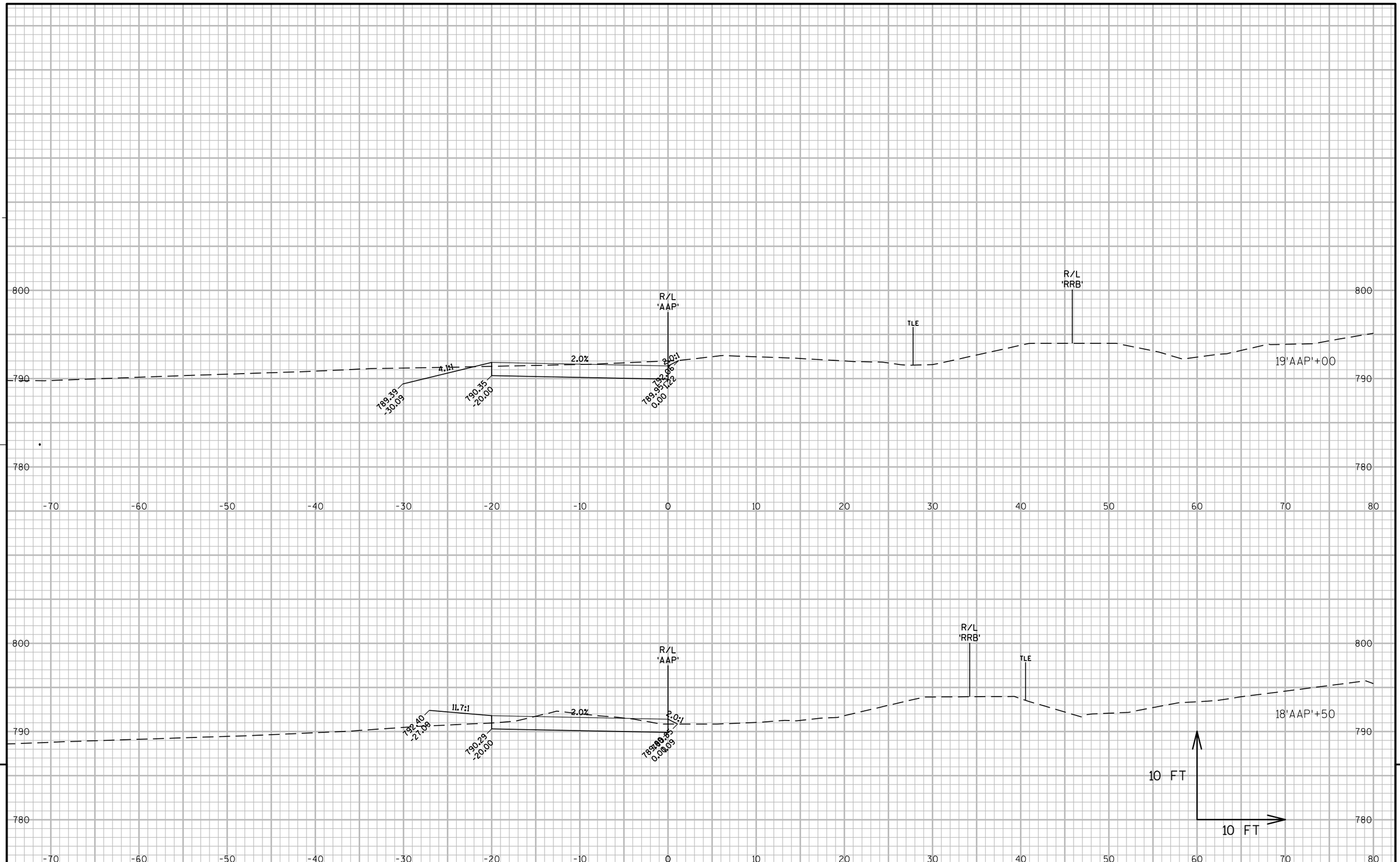
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET 670 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090911_XS_02_AGRICULTURE

PLOT DATE : 1/22/2020 9:58 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

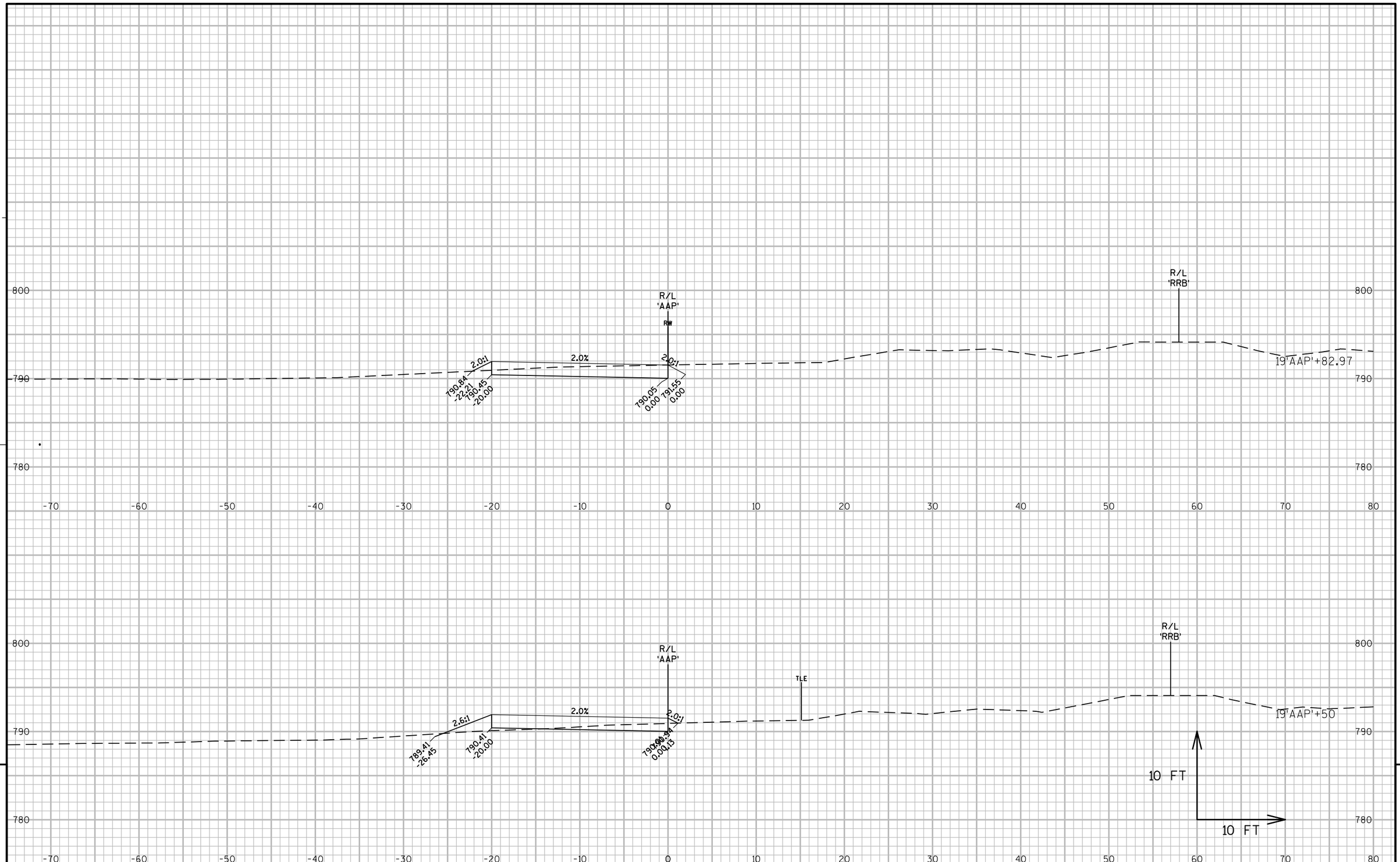


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET 671 E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090912_XS_02_AGRICULTURE

PLOT DATE : 1/22/2020 9:58 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



9

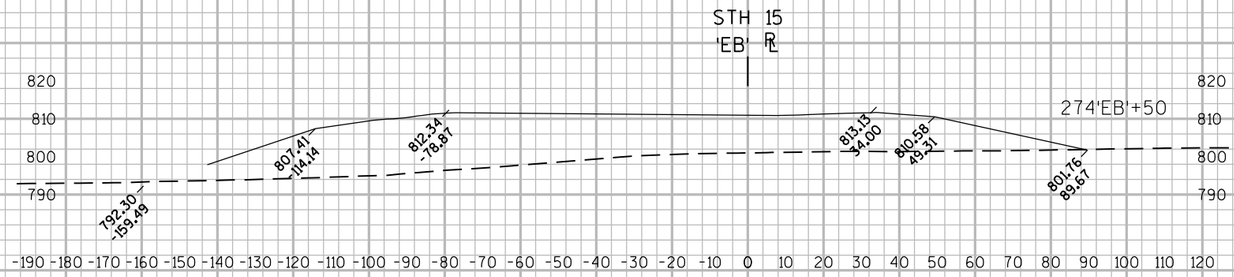
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET 672 E

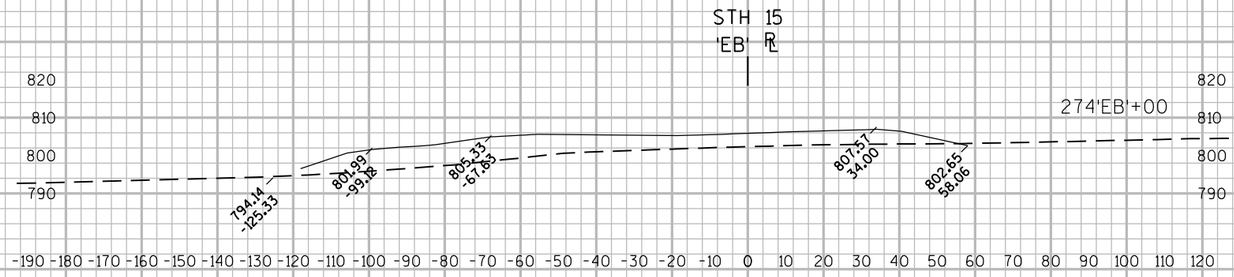
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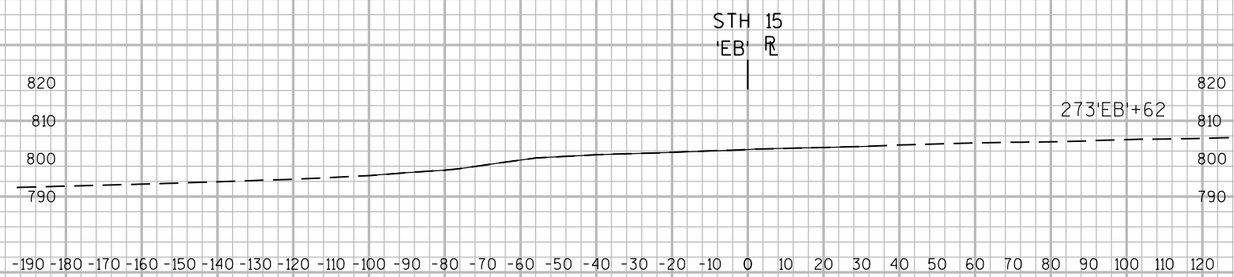
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090913_XS_02_AGRICULTURE

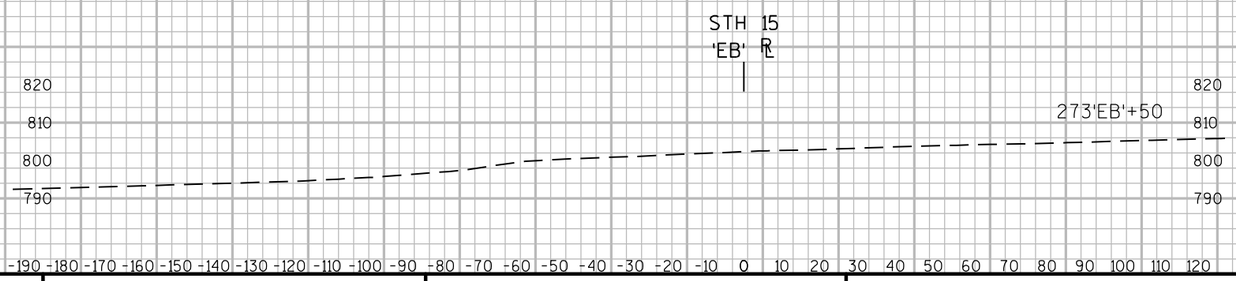
PLOT DATE : 1/22/2020 9:58 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF

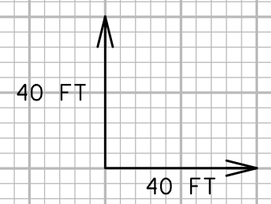
WISDOT/CADDS SHEET 49









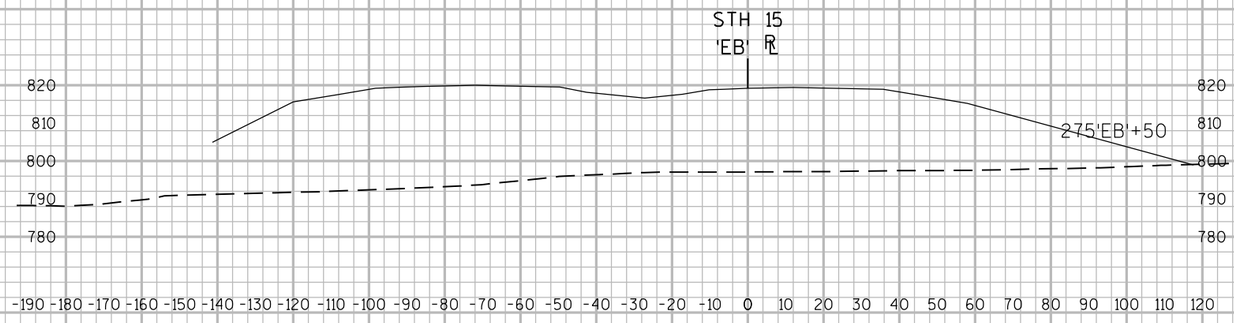


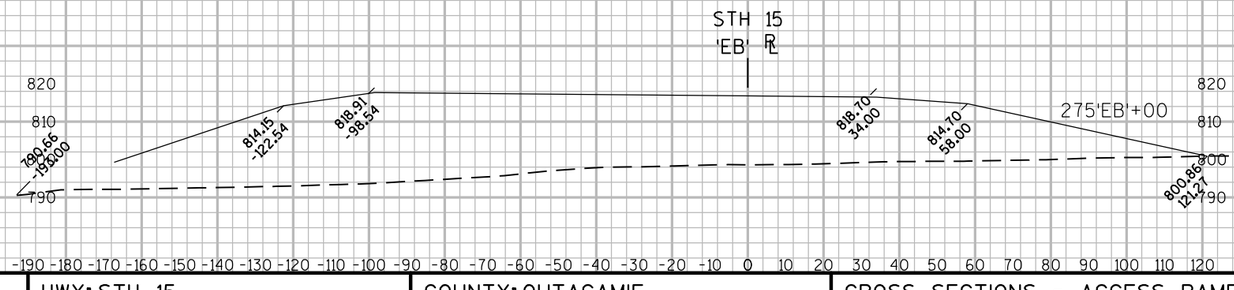
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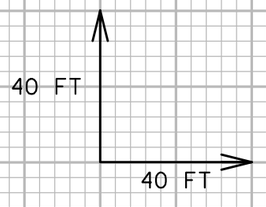
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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - ACCESS RAMP	SHEET 673	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090910_XS_TEMPORARY RAMP.DWG
LAYOUT NAME - 090910_XS
PLOT DATE : 1/22/2020 9:58 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







9

9

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - ACCESS RAMP	SHEET 674	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090910_XS_TEMPORARY RAMP.DWG
LAYOUT NAME - 090911_XS
PLOT DATE : 1/22/2020 9:58 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov