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 =

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STH 76 - NEW LONDON

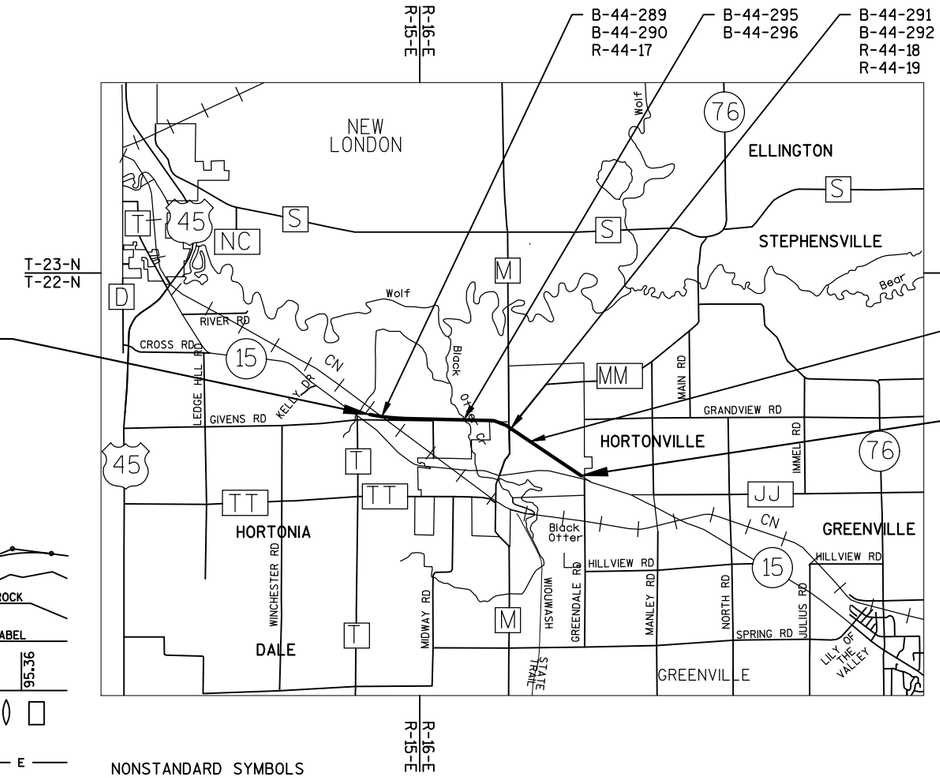
WI CENTRAL RR - CTH JJ

STH 15

OUTAGAMIE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1146-75-71		

STATE PROJECT NUMBER
1146-75-71



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:_____ _____
(Signature)

E

2

UTILITIES

AT&T WISCONSIN - COMMUNICATIONS
JOE KASSAB
221 WEST WASHINGTON STREET - 4TH FLOOR
APPLETON, WI 54911
(920) 735-3206
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
CARL MCCRARY
531 N NASH STREET
HORTONVILLE, WI 54944
(920) 779-6011
DPW@VOHORTONVILLE.COM

WE ENERGIES-ELECTRIC
LATROY BRUMFIELD
333 WEST EVERETT STREET, A299
MILWAUKEE, WI 53203
(414) 221-5617
LATROY.BRUMFIELD@WE-ENERGIES.COM

WE ENERGIES-GAS/PETROLEUM
LATROY BRUMFIELD
333 WEST EVERETT STREET, A299
MILWAUKEE, WI 53203
(414) 221-5617
LATROY.BRUMFIELDE@WE-ENERGIES.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.

THE LOCATION OF SAW CUTS WILL BE DETERMINED OR AS APPROVED BY THE ENGINEER.

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

THE EXACT LOCATIONS OF ALL EROSION CONTROL ITEMS SHALL BE DETERMINED BY 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 LAST SECTION OF ALL EXISTING REINFORCED CONCRETE CULVERT PIPES THAT ARE TO BE EXTENDED SHALL BE, IF NECESSARY, RESET PRIOR TO INSTALLING THE PIPE EXTENSION.

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.

DRIVEWAY SURFACE BEYOND EDGE OF SHOULDER SHALL BE REPLACED IN-KIND WITH A MINIMUM SECTION OF:
3" ASPHALTIC SURFACE OVER 6" BASE AGGREGATE DENSE 3/4-INCH FOR ASPHALTIC PRIVATE DRIVEWAYS AND FIELD ENTRANCES; 6" BASE AGGREGATE DENSE 3/4-INCH FOR GRAVEL DRIVEWAYS.

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

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

ORDER OF SECTION 2 SHEETS

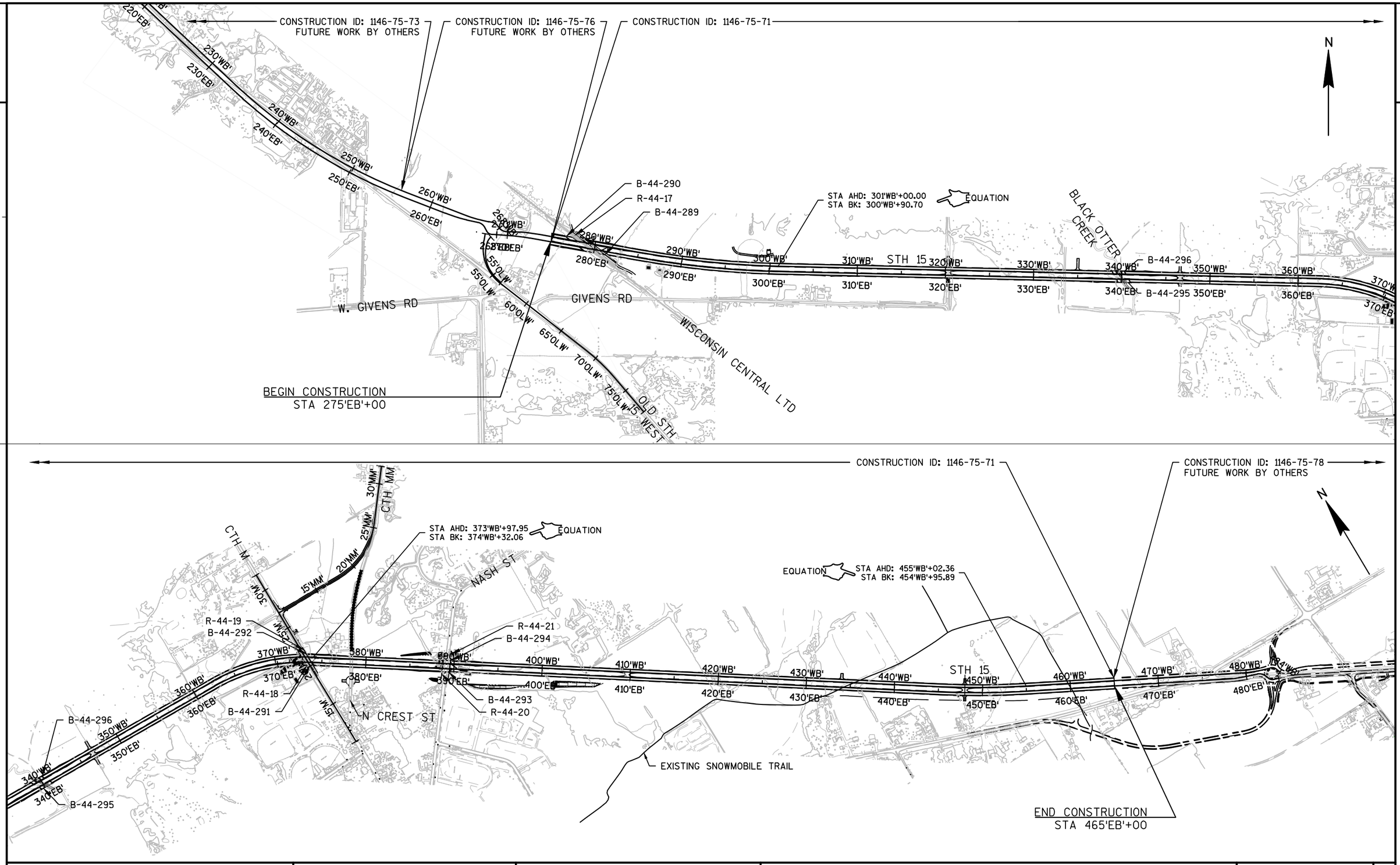
-GENERAL NOTES
-PROJECT OVERVIEW
-TYPICAL SECTIONS
-CONSTRUCTION DETAILS
-INTERSECTION DETAILS
-PLAN DETAILS
-EROSION CONTROL
-STORM SEWER PLAN
-LANDSCAPING
-PERMANENT SIGNING
-PAVEMENT MARKING
-TRAFFIC CONTROL
-STAGE CONSTRUCTION
-FENCING
-ALIGNMENT

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

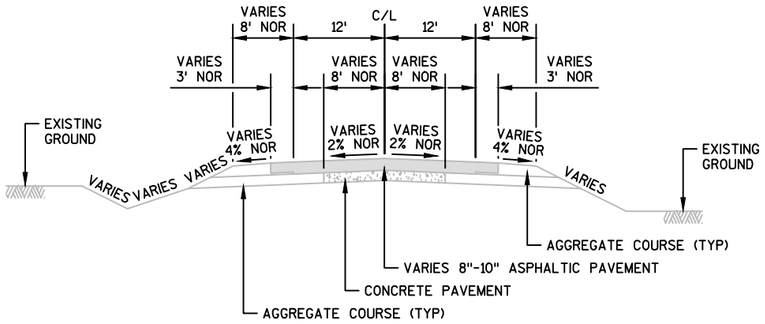
COUNTY SURVEYOR OR SURVEYS CONTACT PERSON

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



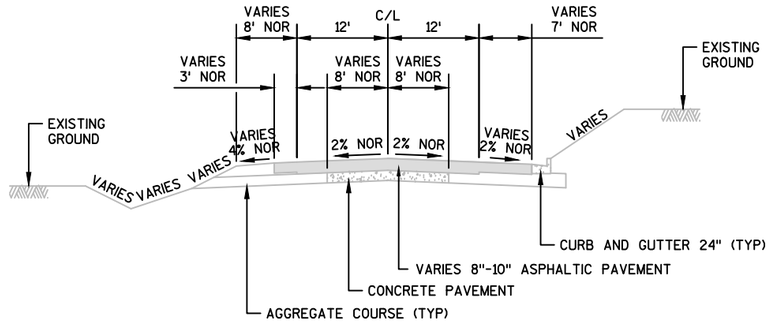
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PROJECT OVERVIEW	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_020201_PO.DWG
11467571_PLAN - 020201-PO
PLOT DATE : 8/6/2019 7:08 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:1000 FT



EXISTING TYPICAL SECTION
STH 15

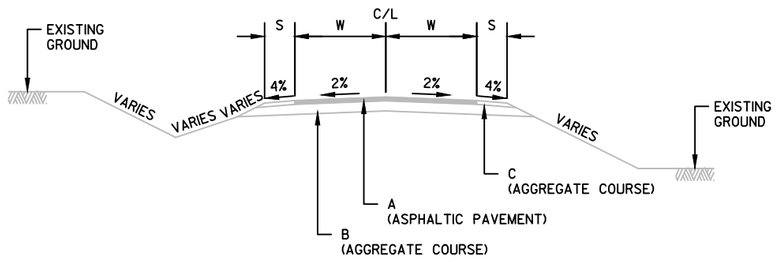
STA 219+50 TO STA 266+57
STA 50+00 TO STA 69+50 (OLD STH 15 WEST ALIGNMENT)



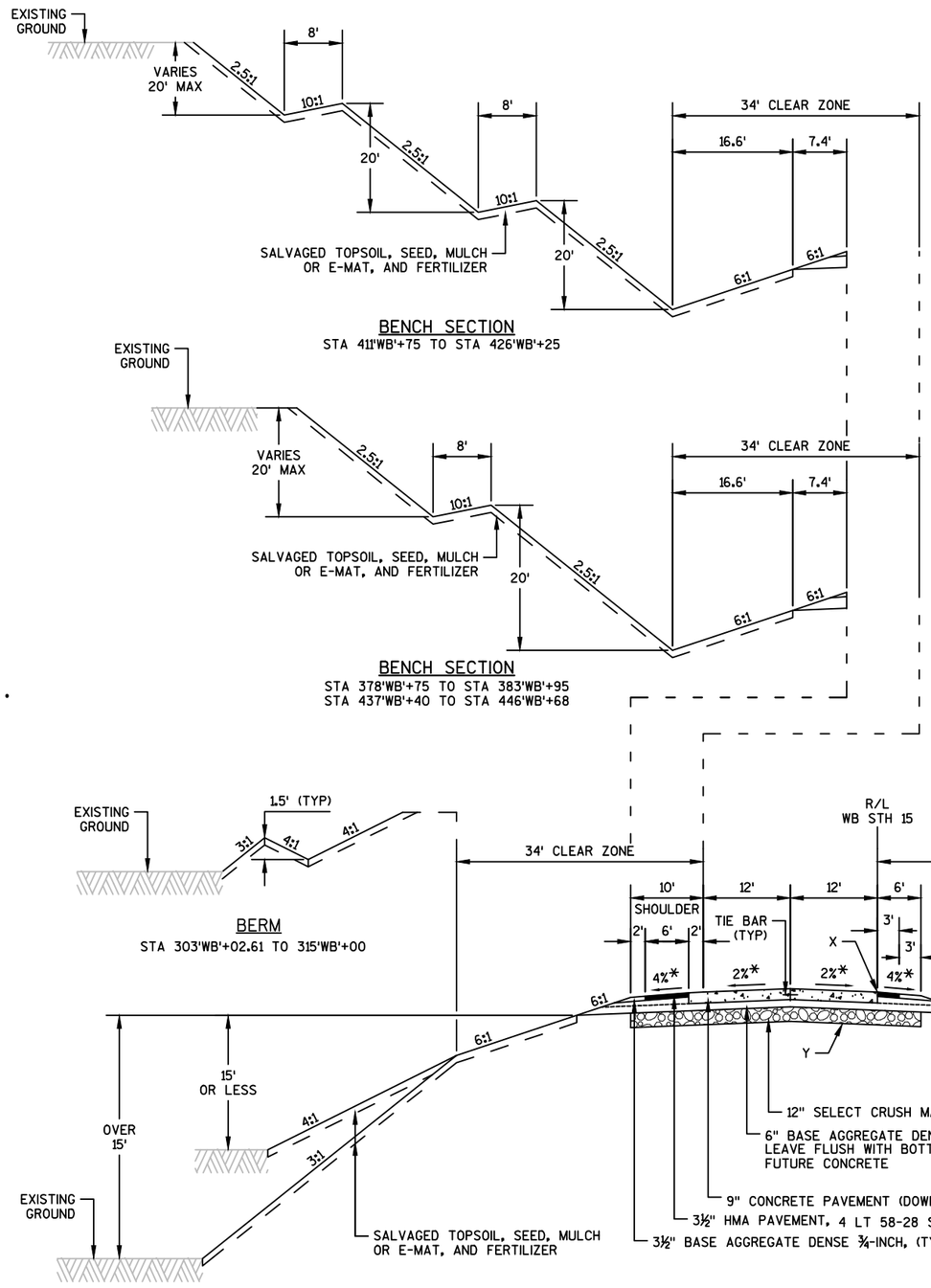
EXISTING TYPICAL SECTION
CTH M

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"

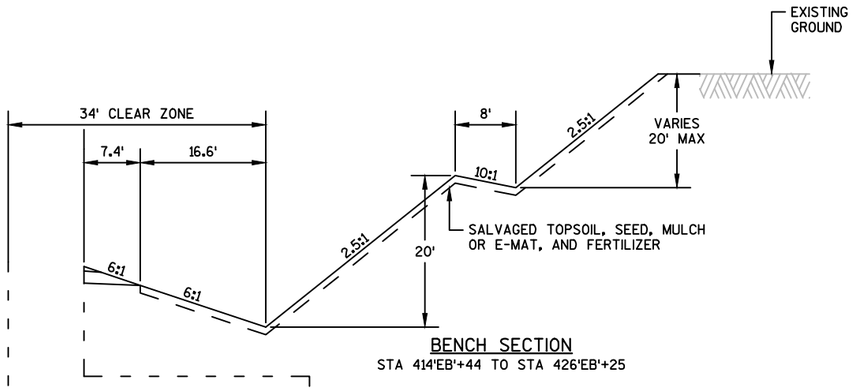


EXISTING TYPICAL SECTION
LOCAL ROADS - SEE TABLE

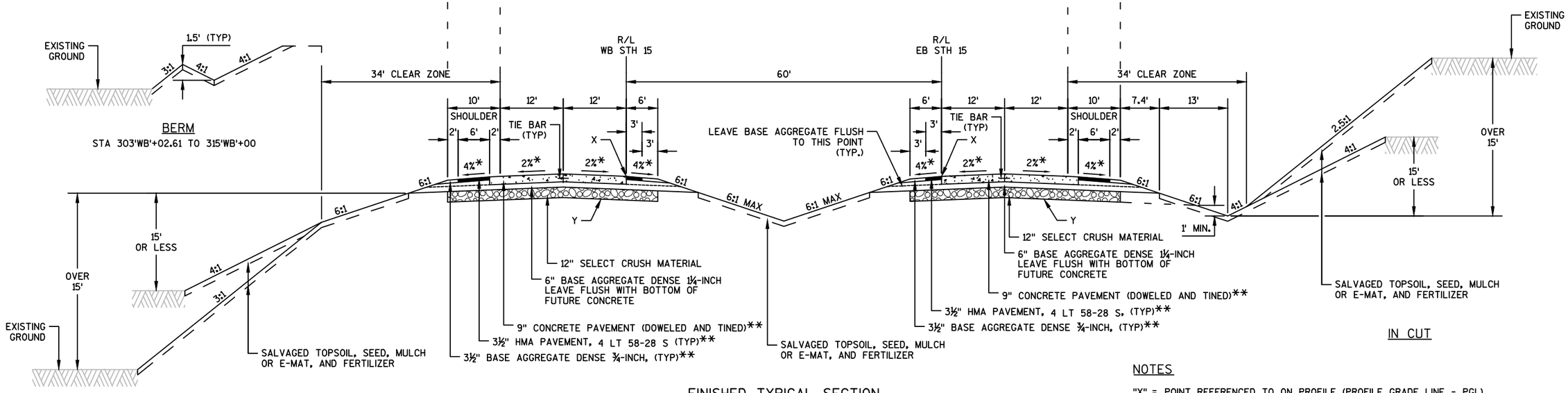


BENCH SECTION
STA 411'WB'+75 TO STA 426'WB'+25

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



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

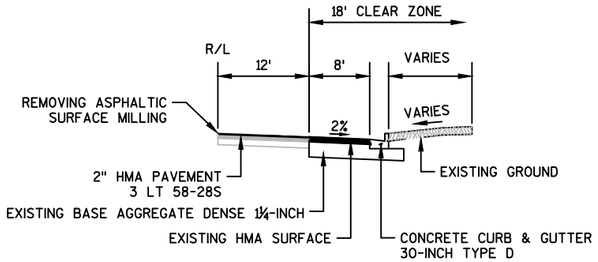
"X" = POINT REFERENCED TO ON PROFILE (PROFILE GRADE LINE - PGL)
"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS
* CROSS SLOPE VARIES DUE TO SUPERELEVATION (SEE CROSS SECTIONS AND SUPERELEVATION TABLE FOR FURTHER DETAILS)
** WORK DONE BY OTHERS, STH 15 PAVEMENT ITEMS SHOWN FOR INFORMATION ONLY

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

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_020301_TS.DWG
11467571_PLAN - 020302_TS
PLOT DATE : 8/6/2019 7:09 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT

LOCAL ROADS

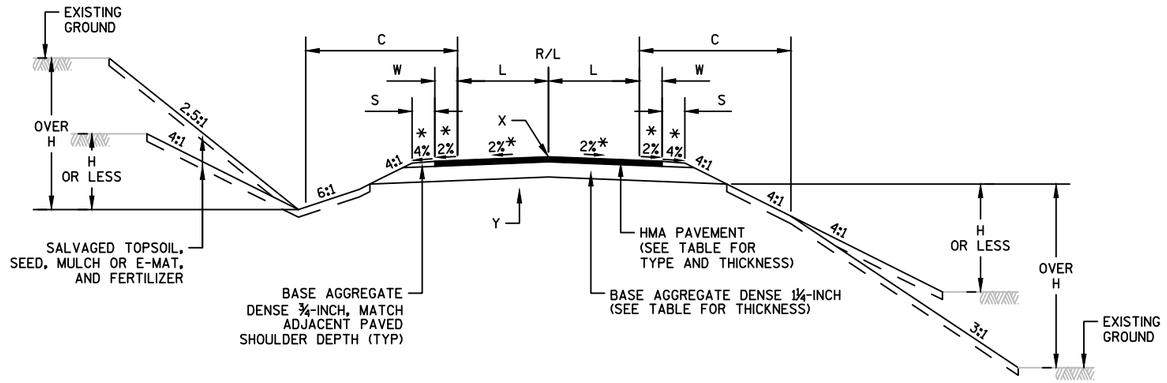
ROAD	PAVEMENT		AGGREGATE SHOULDER	CLEAR ZONE	SIDE SLOPE	PAVEMENT STRUCTURE				HMA PAVEMENT LAYER THICKNESS	
	LANE WIDTH (L)	SHOULDER WIDTH (W)	WIDTH (S)	WIDTH (C)	HEIGHT (H)	HMA TYPE	HMA THICKNESS	B.A.D. 1¼-INCH THICKNESS	SELECT CRUSH MATERIAL THICKNESS	UPPER LAYER	LOWER LAYER
CTH MM	12'	3'	3'	14'	10'	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

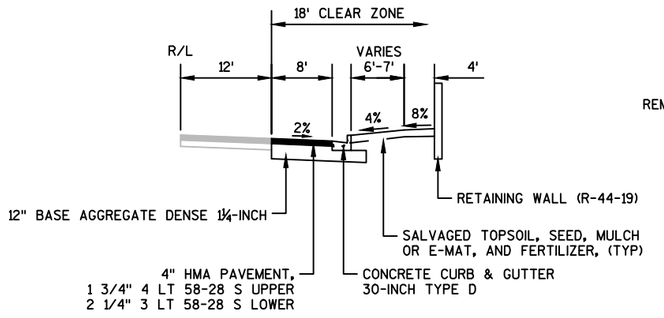
STA 107+00 TO STA 113+00



IN CUT IN FILL

FINISHED TYPICAL SECTION

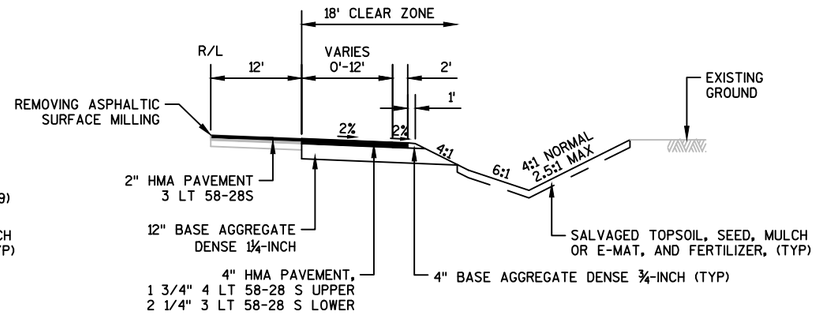
LOCAL ROADS - SEE TABLE



FINISHED TYPICAL HALF SECTION

CTH M

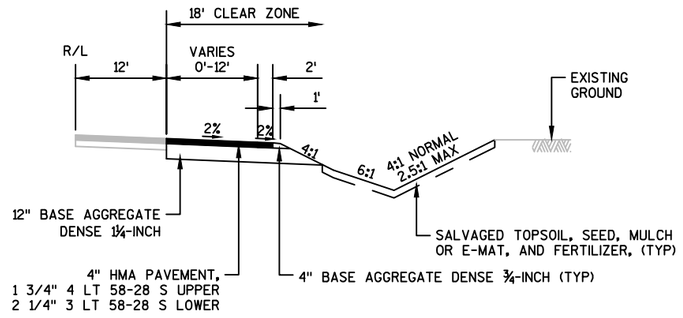
STA 18'M'+89 TO STA 23'M'+15



FINISHED TYPICAL HALF SECTION

CTH M

STA 23'M'+15 TO STA 28'M'+55



FINISHED TYPICAL HALF SECTION

CTH M

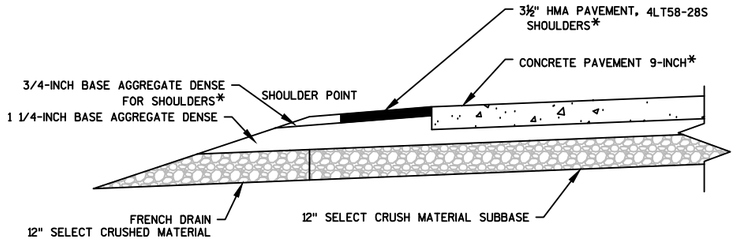
STA 28'M'+55 TO STA 28'M'+71

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)

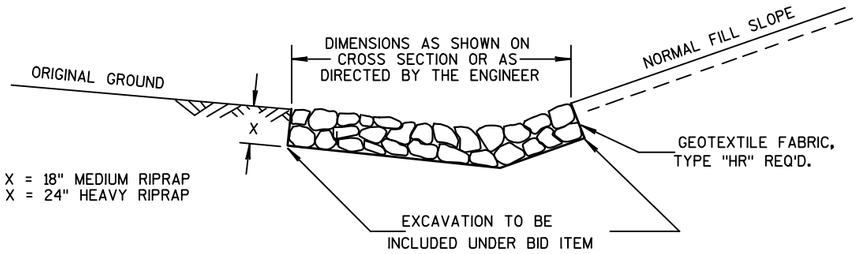
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	TYPICAL SECTIONS - LOCAL ROADS	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_020301_TS.DWG
11467571_PLAN - 020304_TS
PLOT DATE : 8/6/2019 7:09 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

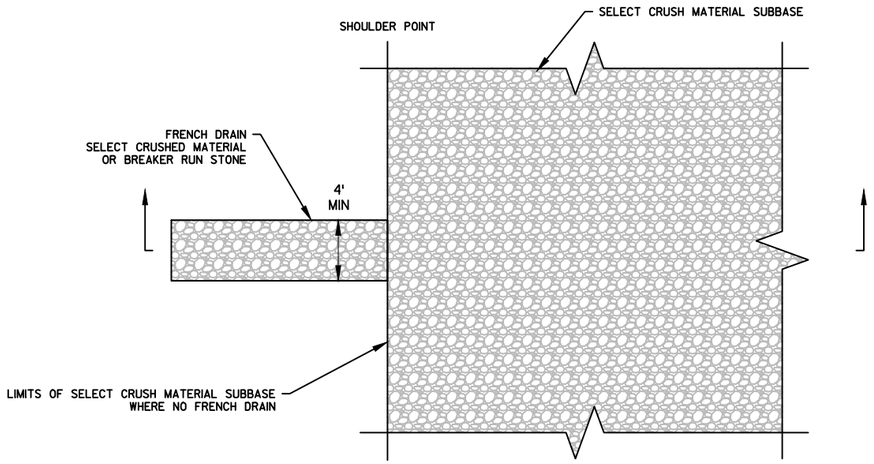


SECTION VIEW

* NOTES WORK DONE BY OTHERS



DETAIL FOR RIPRAP IN DITCHES



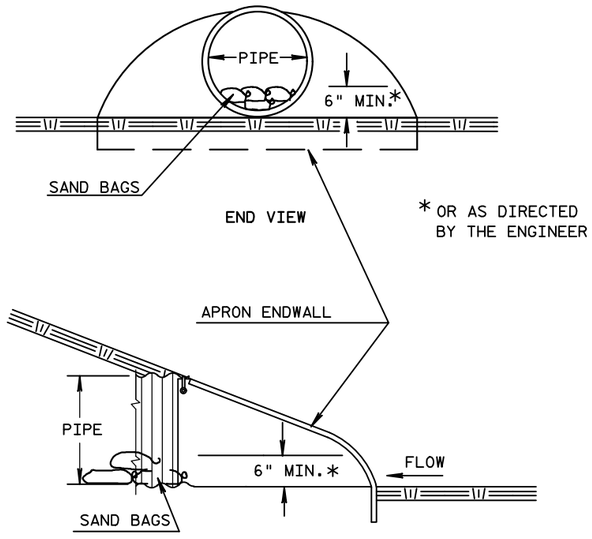
PLAN VIEW

FRENCH DRAIN DETAIL

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.

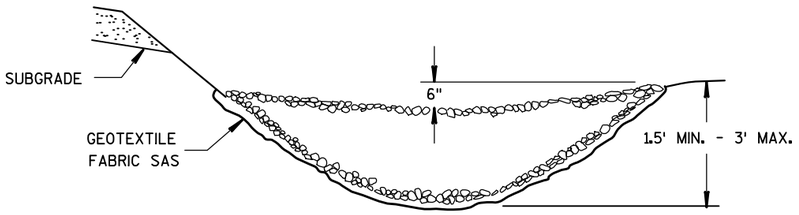
EXCAVATION REQUIRED TO CONSTRUCT FRENCH DRAINS IS INCIDENTAL TO THE ITEM SELECT CRUSH MATERIAL.



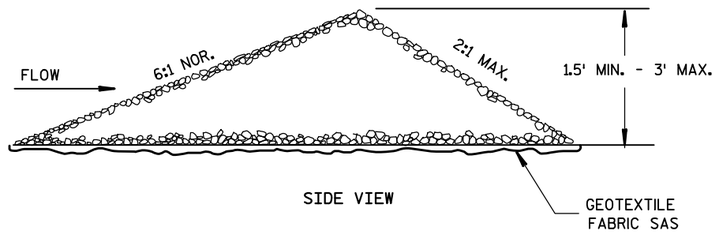
SIDE VIEW

CULVERT PIPE DITCH CHECK

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

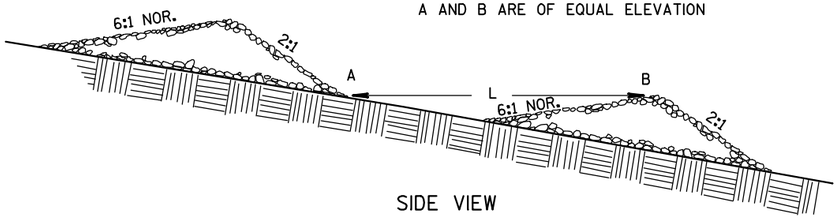


CROSS SECTIONAL VIEW



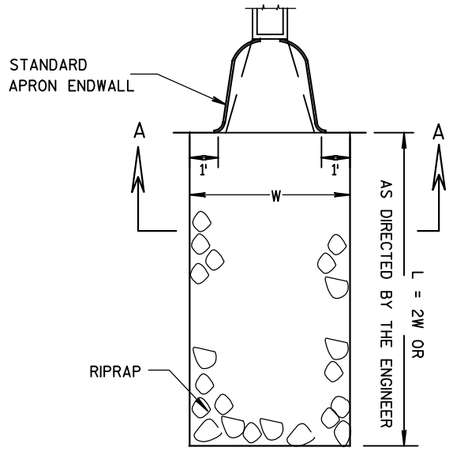
SIDE VIEW

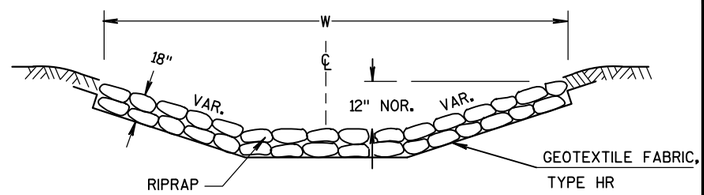
L = THE DISTANCE SUCH THAT POINTS
A AND B ARE OF EQUAL ELEVATION



SIDE VIEW

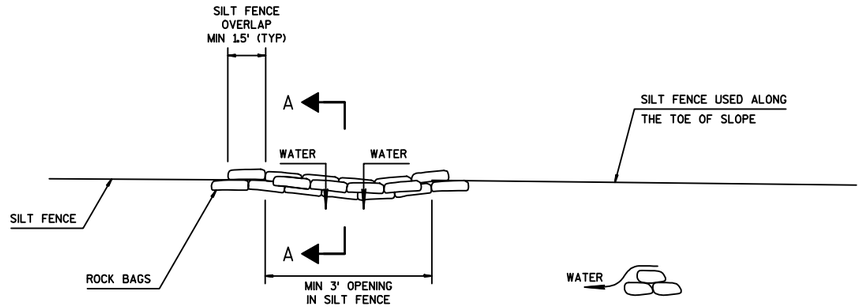
PERMANENT STONE DITCH CHECK





SECTION A-A

RIPRAP MEDIUM DETAIL AT APRON ENDWALLS

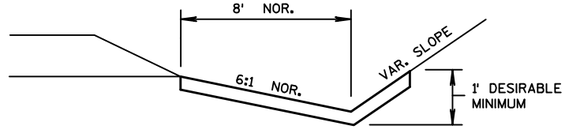


SECTION A-A

TOP VIEW

ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

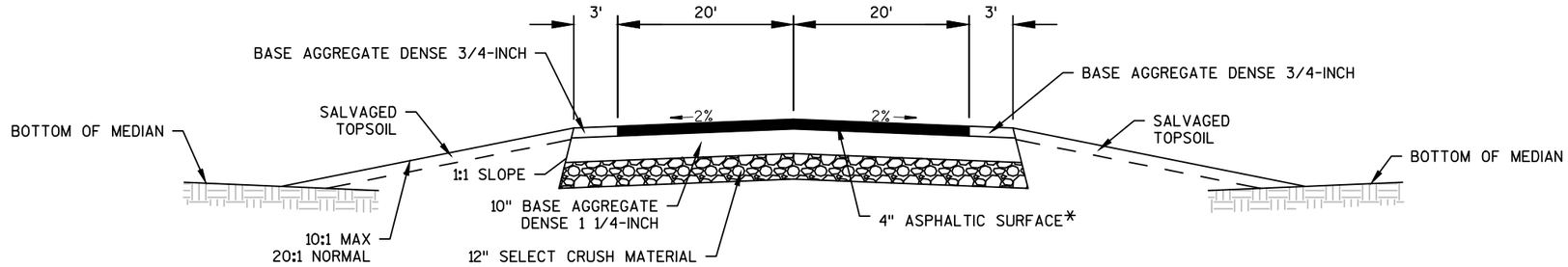
PAID AS ROCK BAGS



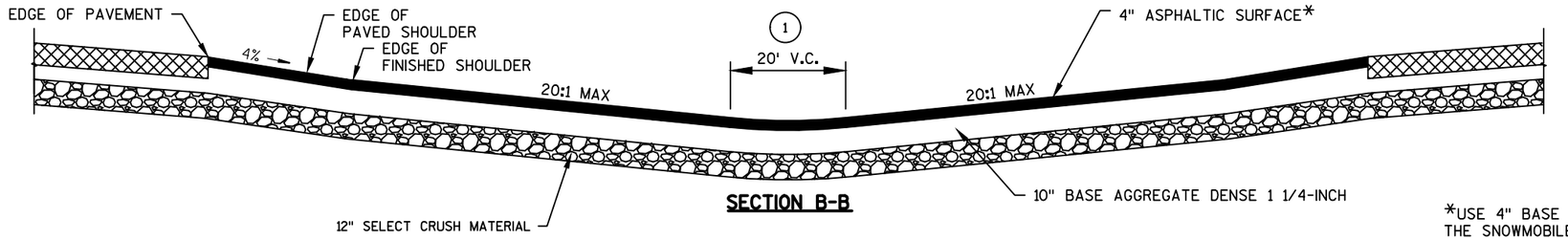
EROSION MAT DETAIL FOR DITCHES

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

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021001_CD.DWG
LAYOUT NAME - 021009_CD
PLOT DATE : 8/6/2019 7:09 AM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



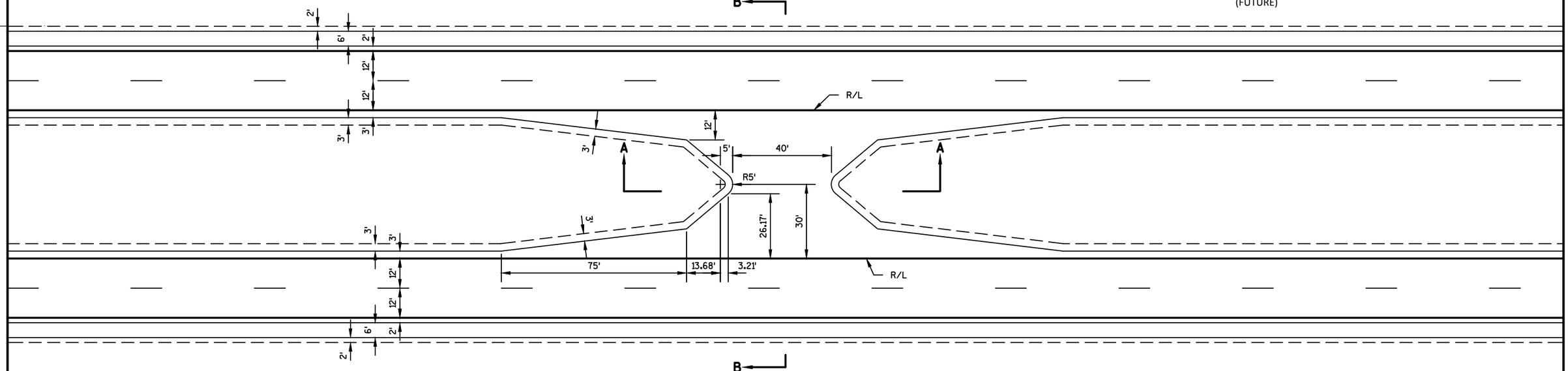
SECTION A-A



SECTION B-B

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

4" ASPHALTIC SURFACE, BASE AGGREGATE DENSE 3/4-INCH BY OTHERS (FUTURE)



MEDIAN CROSSING DETAIL (2)

STA 320'EB'+30
STA 346'EB'+60
STA 409'EB'+68
STA 448'EB'+00*

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

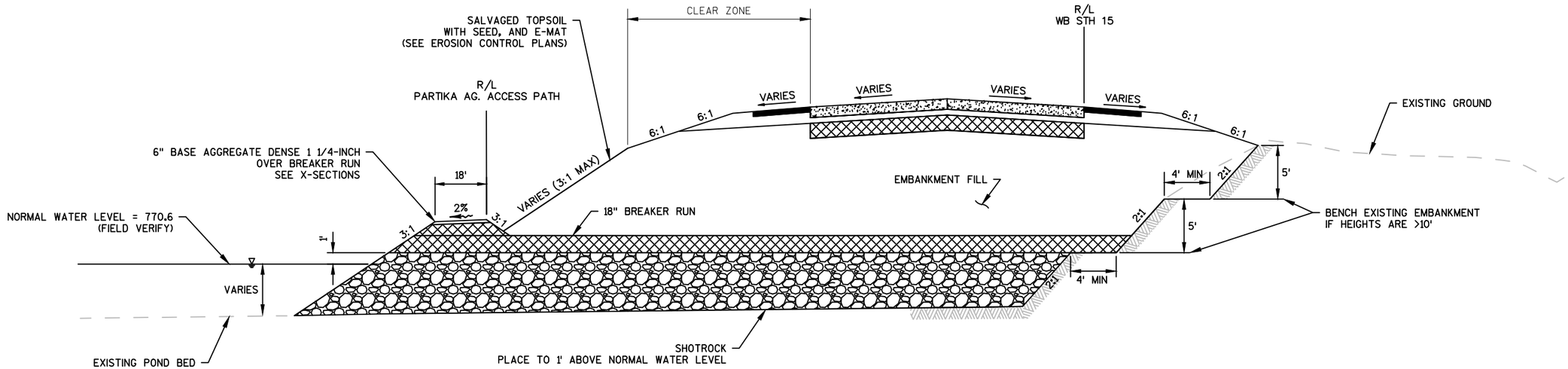
(2) SEE PERMANENT SIGNING PLAN FOR SIGN LOCATIONS.

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.

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

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021001_CD.DWG
11467571_PLAN - 021001_CD
PLOT DATE : 4/11/2019 8:20 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

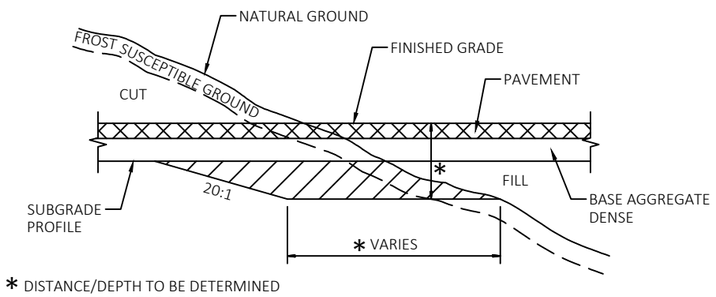


PARTIKA POND FILL DETAIL

STA 296'WB'+29 -297'WB'+84 (TYP.)

NOTE:

SEE CROSS SECTIONS FOR APPROXIMATE
POND DEPTHS AT EACH STATION



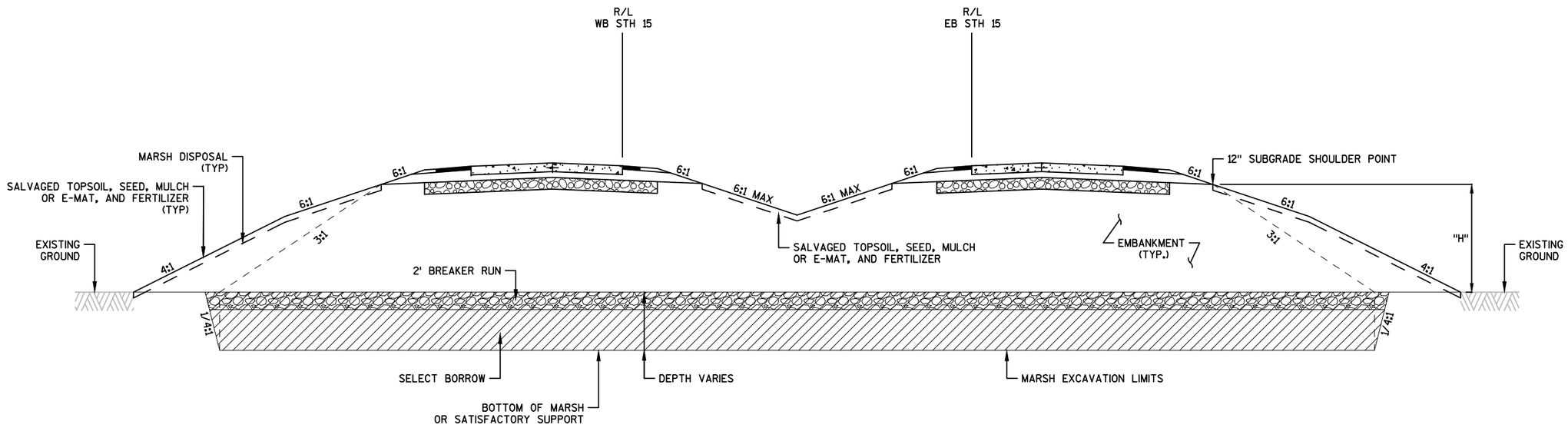
* DISTANCE/DEPTH TO BE DETERMINED BY ENGINEER IN THE FIELD

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

EXACT LOCATION OF EXCAVATION BELOW SUBGRADE (EBS) SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. EBS AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER.



MARSH EXCAVATION DETAIL

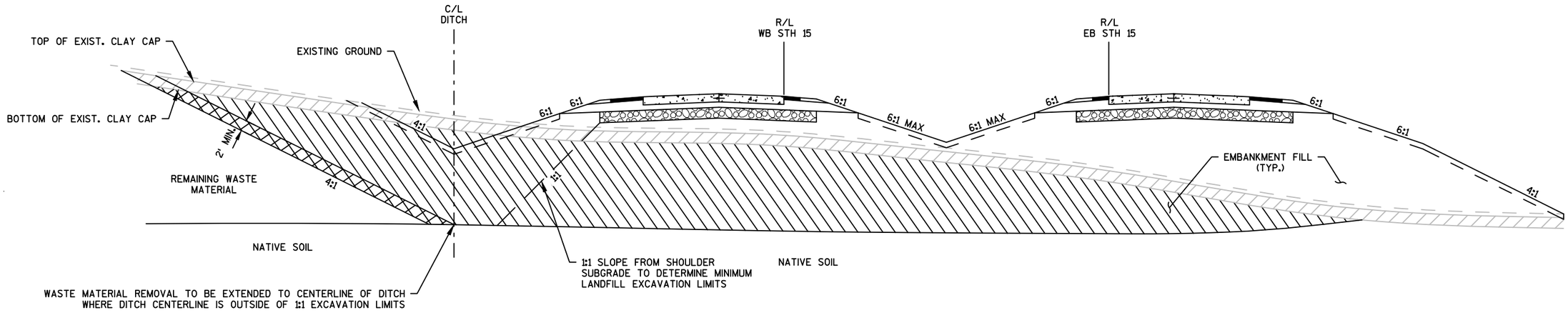
STH 15

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

NOTES:
1. LIMITS OF MARSH EXCAVATION SHALL EXTEND TO 3:1 SLOPE INTERCEPT AS A MINIMUM.
2. ROADWAY EMBANKMENT SHALL BE USED FOR BACKFILL BETWEEN NORMAL ROADWAY CORE (1:1 SLOPE INTERCEPT FROM SUBGRADE SHOULDER POINT) AND 3:1 SLOPE INTERCEPT.
3. MARSH DISPOSAL IS ALLOWED OUTSIDE OF 3:1 SLOPES PROJECT-WIDE WHERE FILL HEIGHT 'H' DOES NOT EXCEED 10'.

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

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021001_CD.DWG
LAYOUT NAME - 021016_CD
PLOT DATE : 8/6/2019 7:09 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT



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

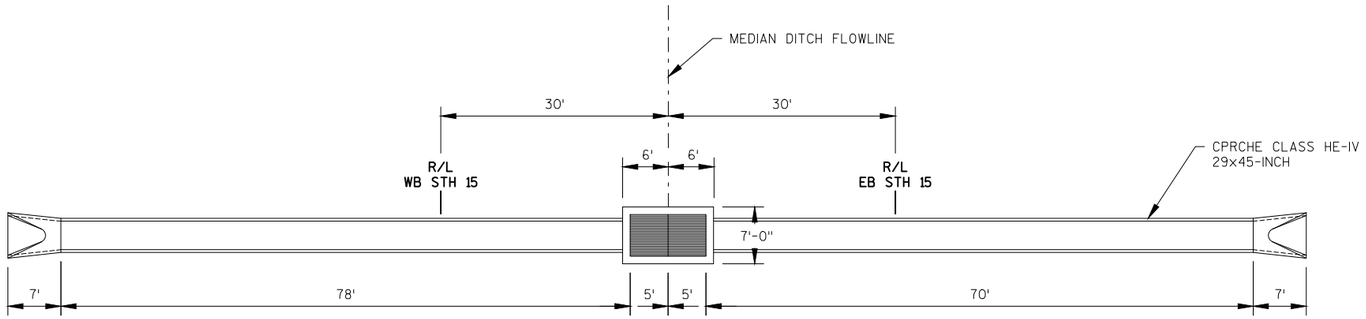
- LANDFILL MATERIAL TO BE REMOVED
- NEW CLAY CAP (INCLUDES LANDFILL MATERIAL REMOVAL)
- EXISTING CLAY CAP

NOTES:

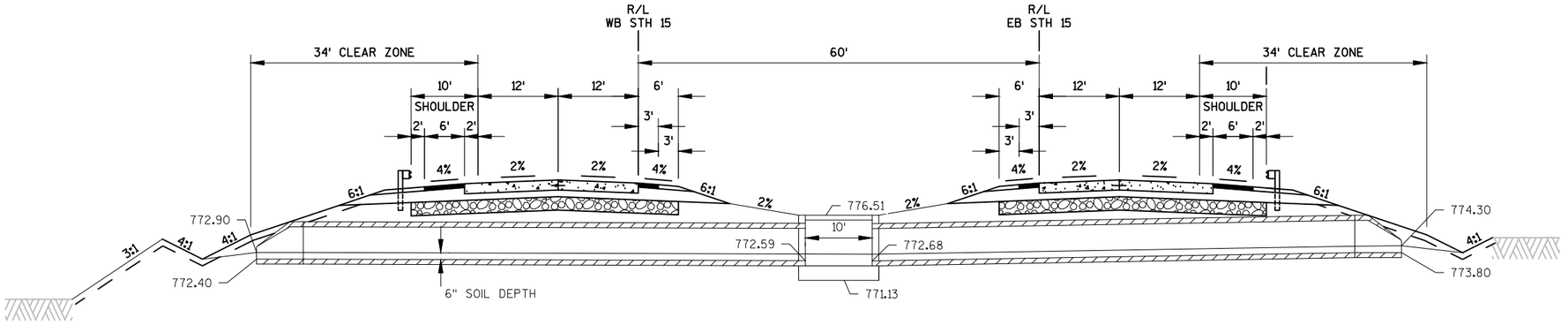
1. CONTRACTOR SHALL NOTIFY THE DNR WITHIN 10 DAYS OF THE INITIATION OF WASTE REMOVAL.
2. STORM WATER IS PROHIBITED FROM BEING IN CONTACT WITH SOLID WASTE DURING OR AFTER THIS WORK.
3. TOPSOIL AND/OR CLAY CAP REMOVED DURING CONSTRUCTION IS ASSUMED TO BE UN-IMPACTED AND HAS UNRESTRICTED USE.
4. NEW CLAY CAP IS REQUIRED ONLY OVER AREAS OF REMAINING WASTE.
5. PERFORM RE-GRADING AND REPLACEMENT OF THE CLAY CAP AND TOP SOIL COVER IN ACCORDANCE WITH NR 506 AND NR 504.
6. COMPLETE SEEDING IN ACCORDANCE WITH NR 506.08 WITHIN 30 DAYS OF COVER PLACEMENT.
7. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	LANDFILL WASTE REMOVAL DETAIL	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021001_CD.DWG
LAYOUT NAME - 021015_CD
PLOT DATE : 5/15/2017 2:34 PM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42



PLAN STH 15 - STA 309+00



LONGITUDINAL SECTION STH 15 - STA 309+00

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.

GENERAL NOTES:

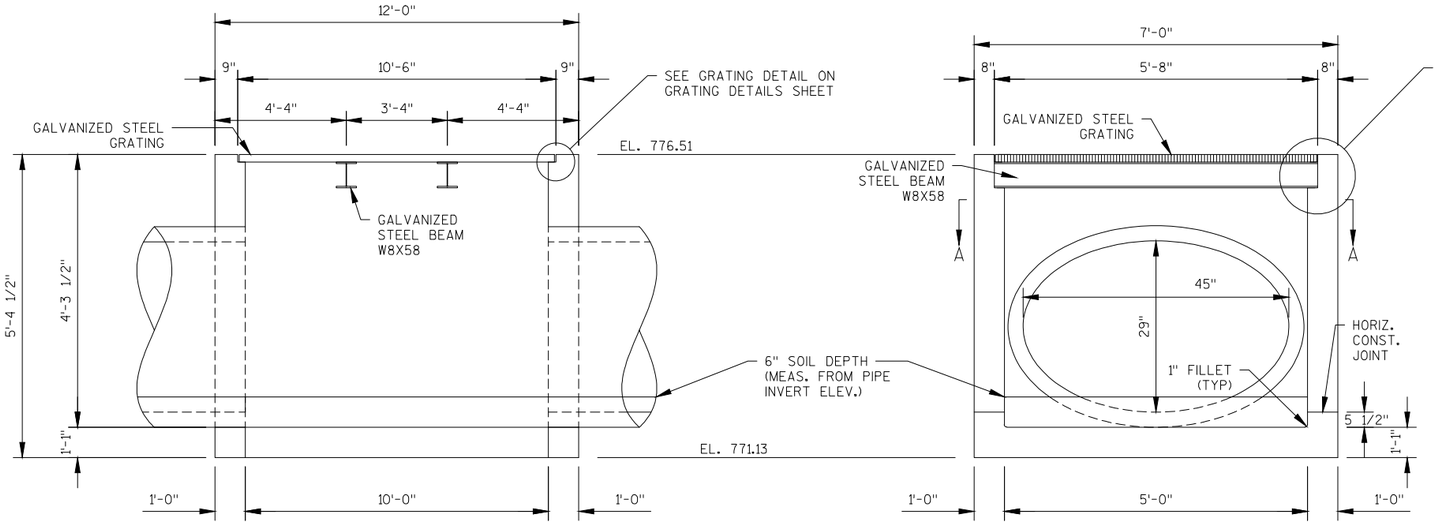
DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED ELSEWHERE.

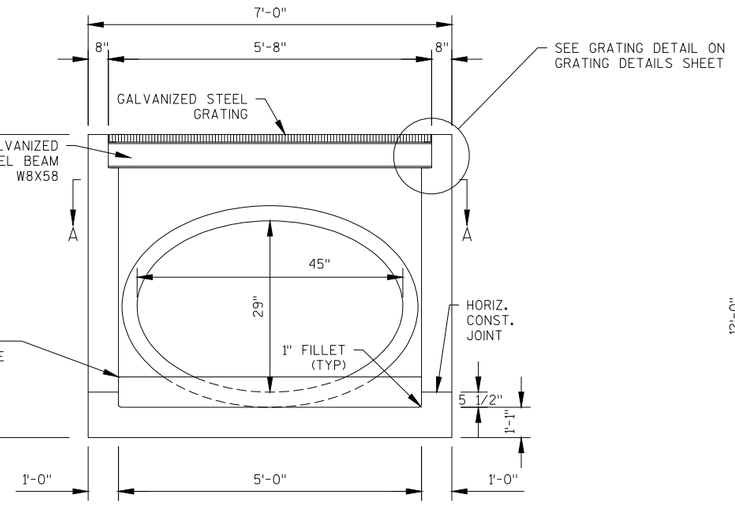
DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

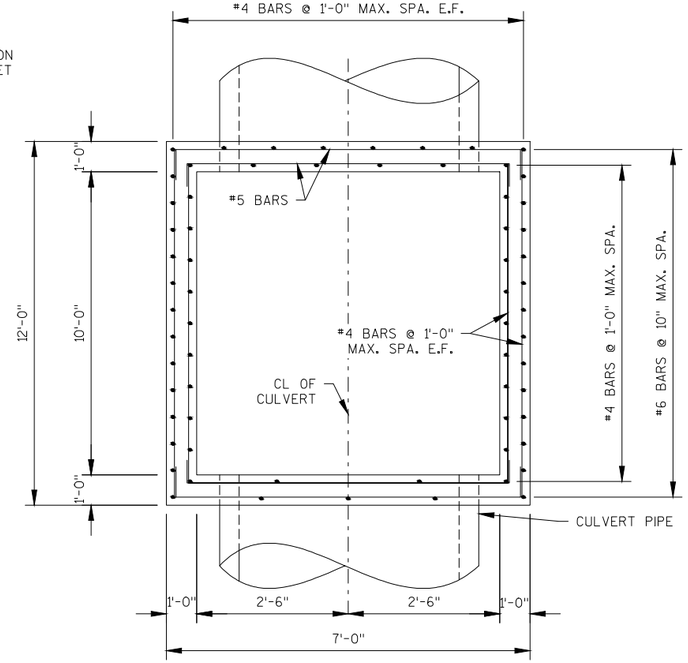
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021001_CD.DWG
LAYOUT NAME - 021013_CD
PLOT DATE : 2/21/2017 10:01 AM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1 IN:20 FT



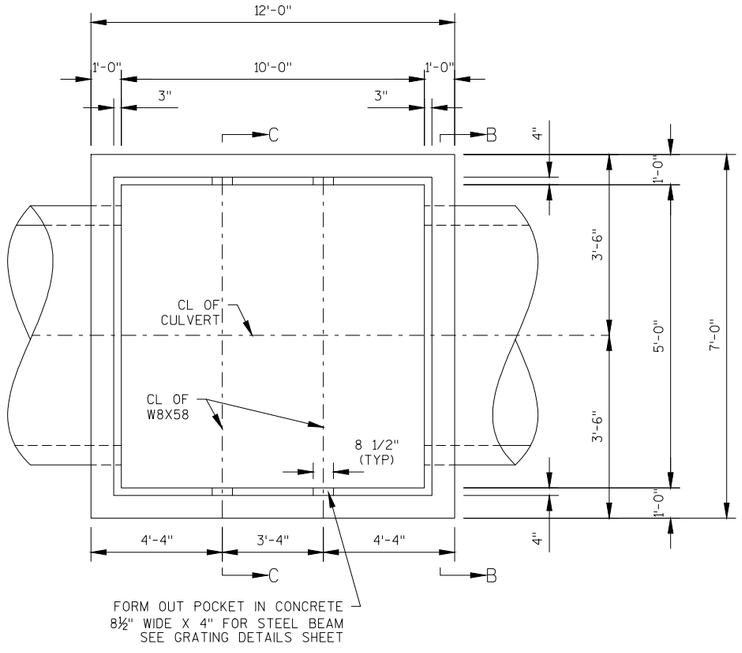
LONG. SECTION THRU MEDIAN INLET



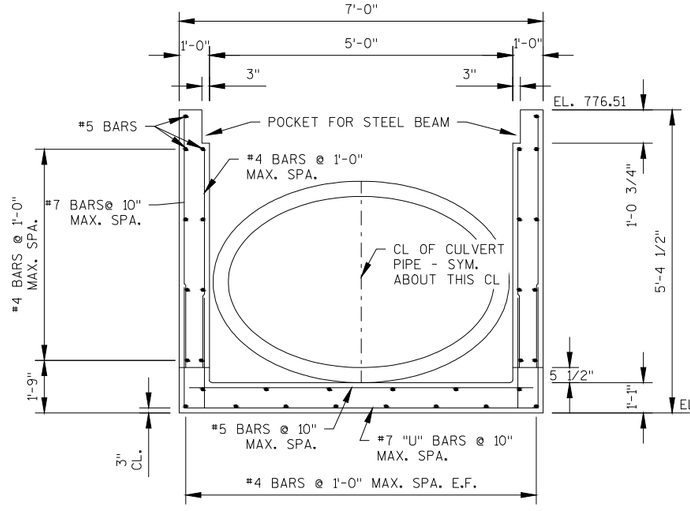
CROSS SECTION THRU MEDIAN INLET



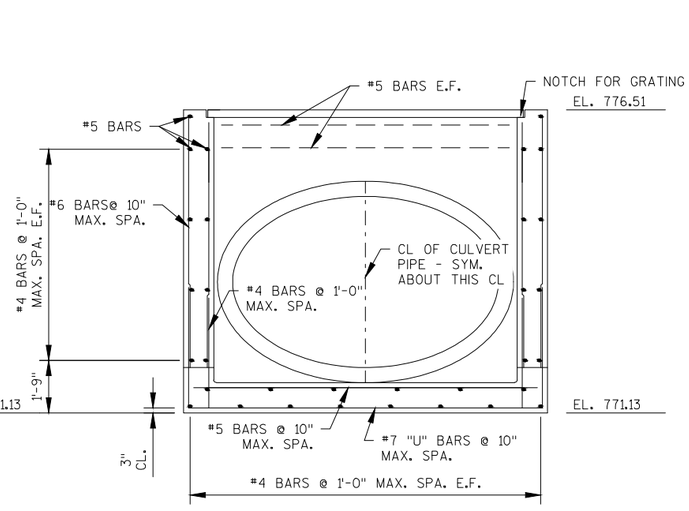
SECTION A



PLAN OF MEDIAN INLET



SECTION C

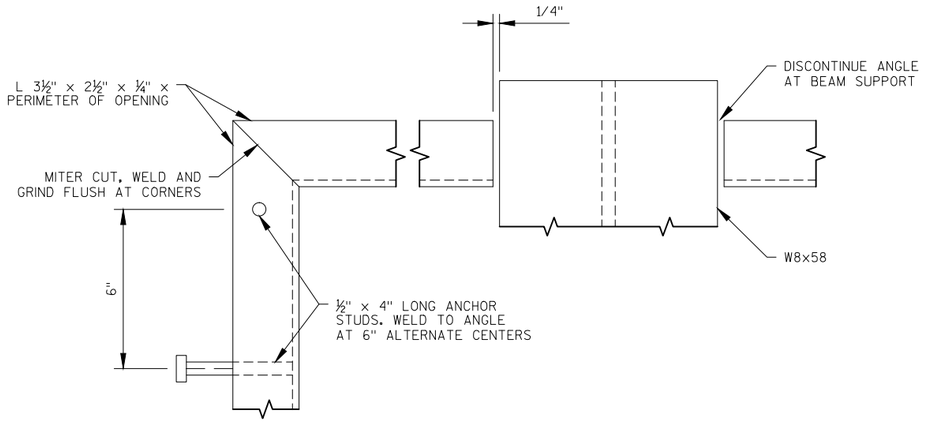


SECTION B

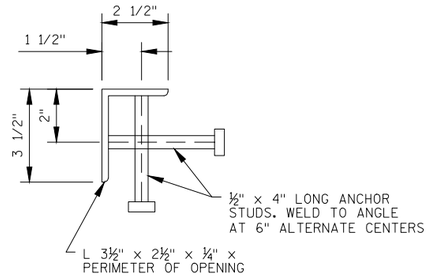
NOTE: E.F. DENOTES EACH FACE

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

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021001_CD.DWG
LAYOUT NAME - 021011_CD
PLOT DATE : 2/21/2017 10:01 AM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

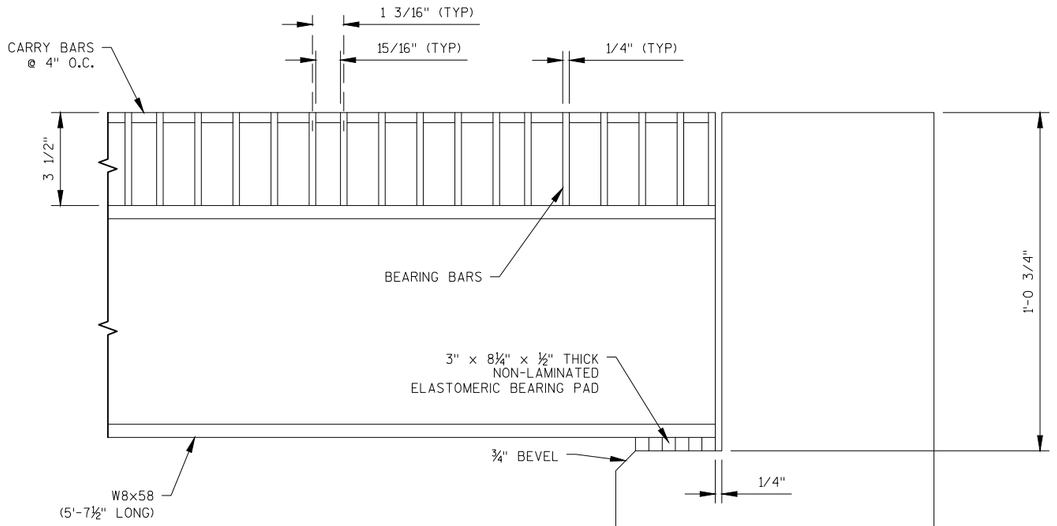


PLAN AT MEDIAN INLET

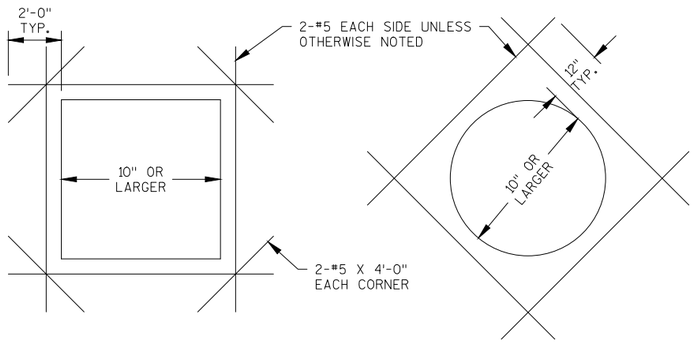


SECTION

BEARING ANGLE



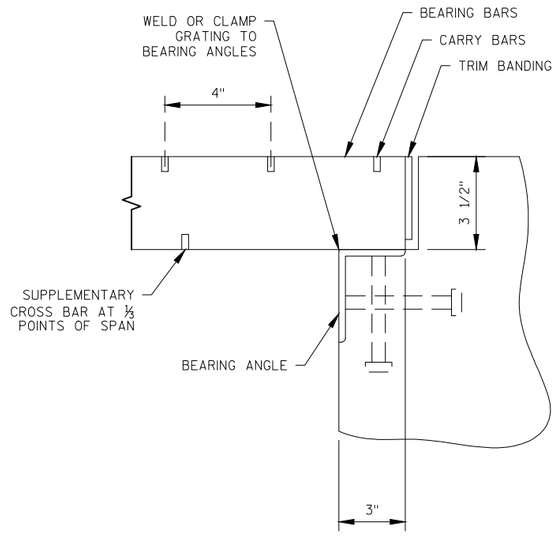
GRATING DETAIL @ MEDIAN INLET



SUPPLEMENTARY REINFORCEMENT AT WALL OPENINGS

NOTE:

PROVIDE SUPPLEMENTARY REINFORCEMENT
FOR EACH LAYER OF REINFORCEMENT.



BEARING BAR SUPPORT DETAIL

STEEL GRATING NOTES:

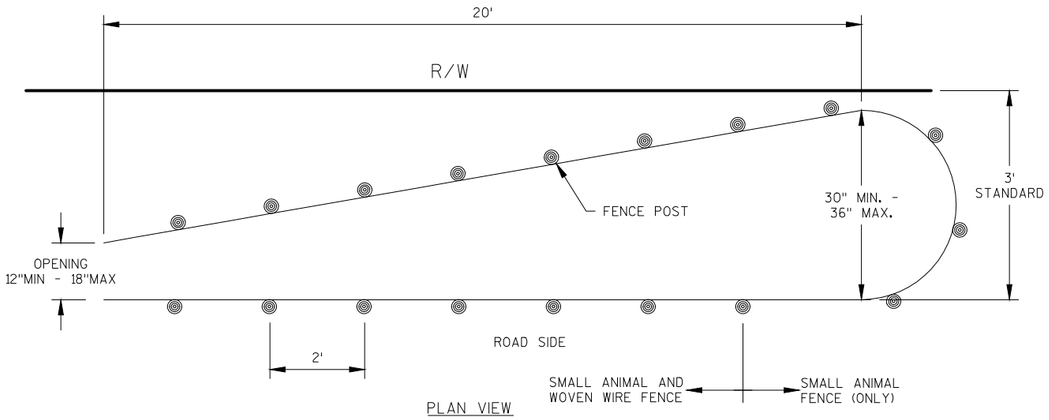
1. GRATING OPEN AREAS EQUAL 72%.
2. MAXIMUM CLEAR SPAN FOR GRATING EQUALS 3'-2".
3. STEEL GRATING SHALL SUPPORT AN HS20 WHEEL LOAD WITH AN IMPACT FACTOR OF 1.3.
4. GRATING SHALL BEAR FLUSH ON SUPPORT BEAM AND ON ANGLES AT ENDS OF BEARING BARS.
5. GRATING, SUPPORT BEAM, AND BEARING ANGLES SHALL CONFORM 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.

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	ECO PASSAGE STRUCTURE GRATING DETAILS	SHEET	E

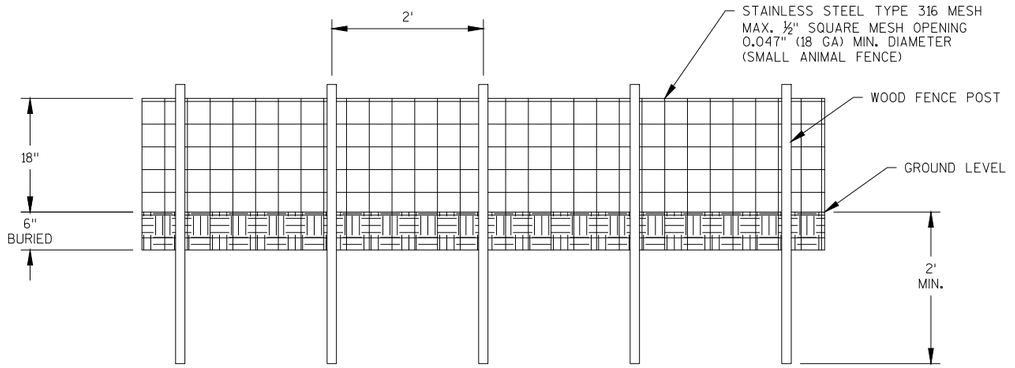
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021001_CD.DWG
LAYOUT NAME - 021012_CD

PLOT DATE : 2/21/2017 10:01 AM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

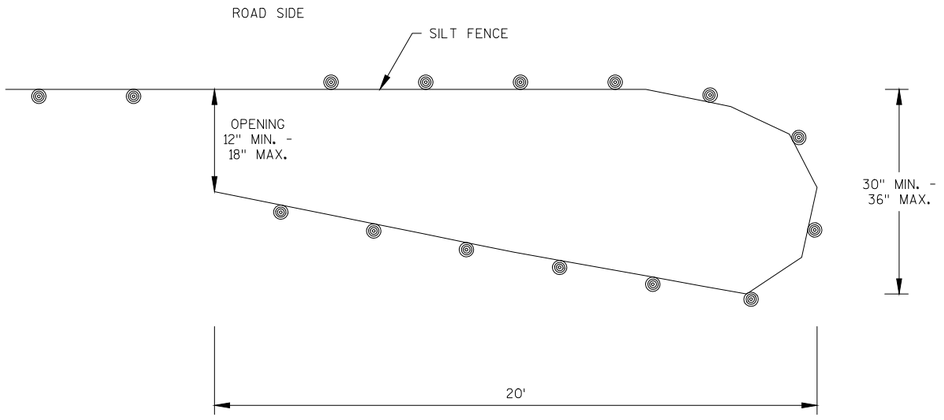


PLAN VIEW



PROFILE VIEW
SMALL ANIMAL FENCE

PERMANENT SMALL ANIMAL FENCE AND TURN-AROUND DETAIL

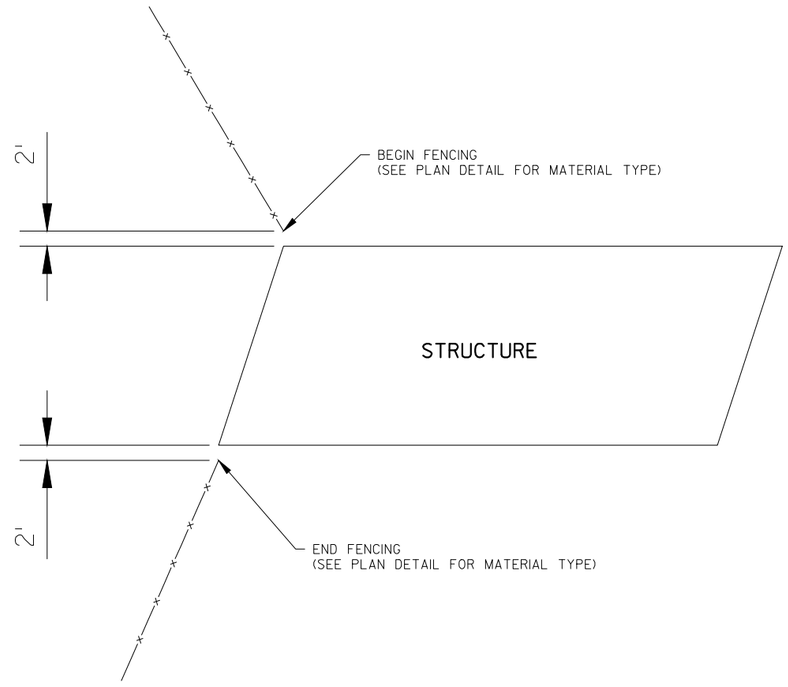


PLAN VIEW

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.

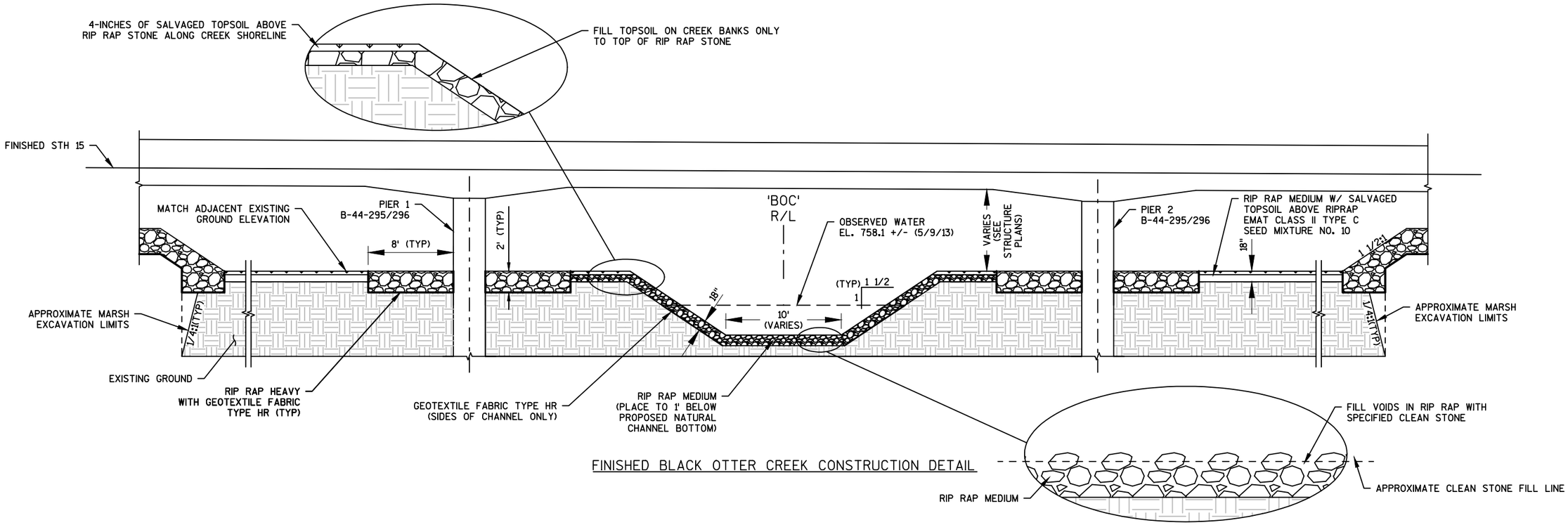
TEMPORARY TURTLE TURN-AROUND DETAIL



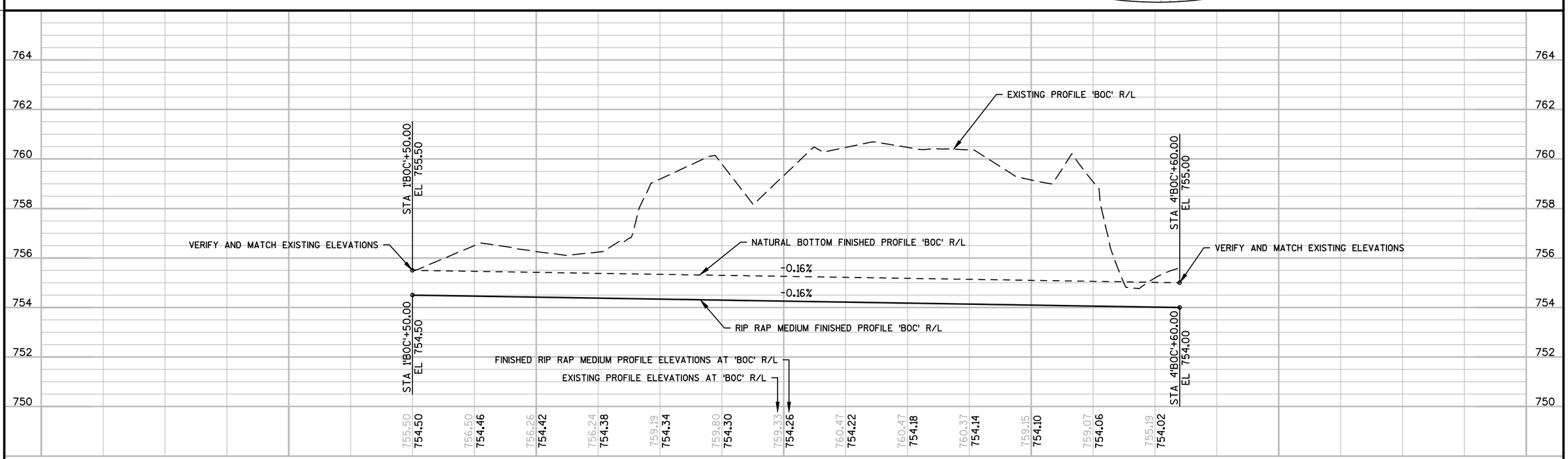
FENCE DETAIL AT STRUCTURES

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

2

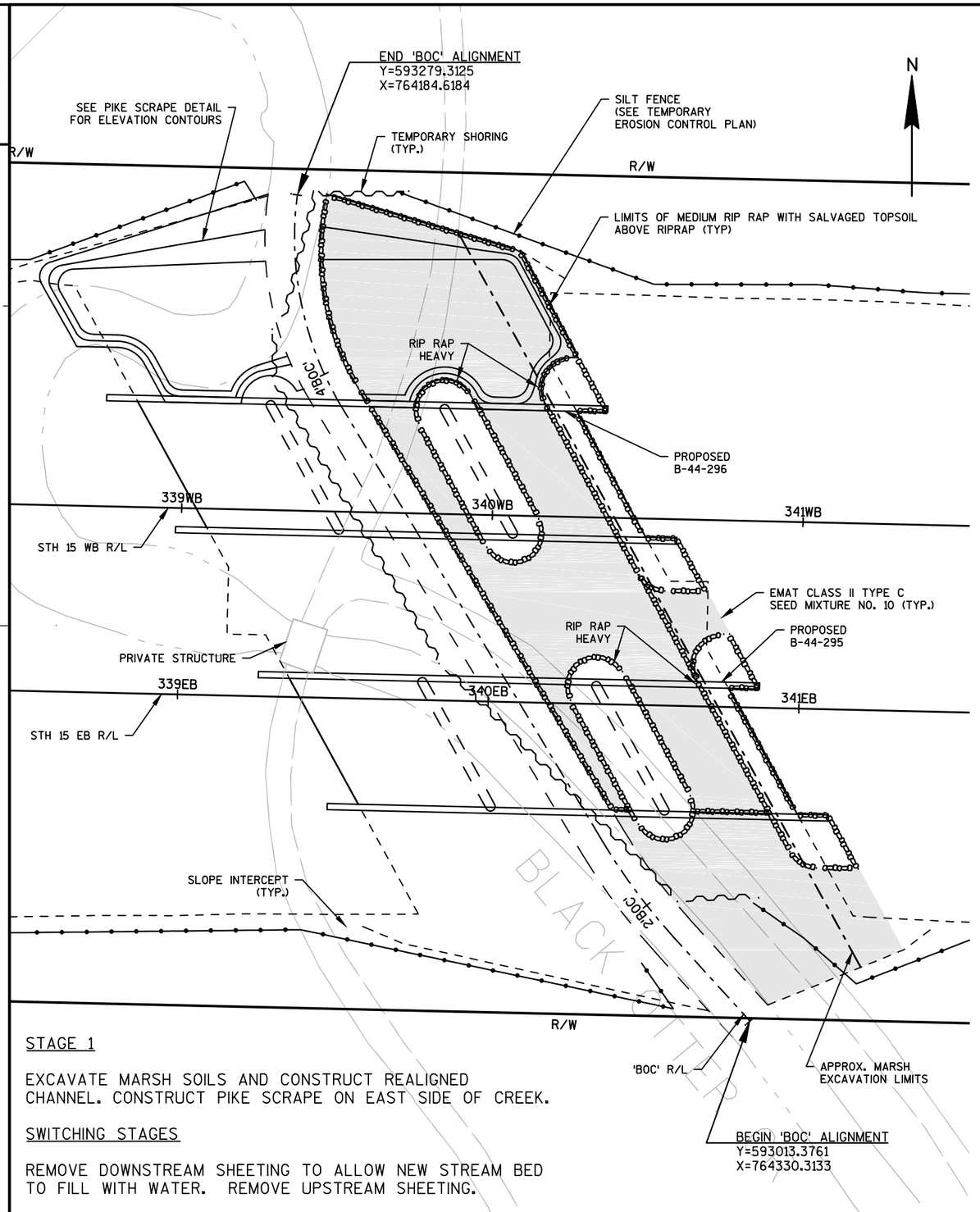


FINISHED BLACK OTTER CREEK CONSTRUCTION DETAIL



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

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021019_CD.DWG
LAYOUT NAME - 021019_CD
PLOT DATE : 11/13/2017 12:15 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 44

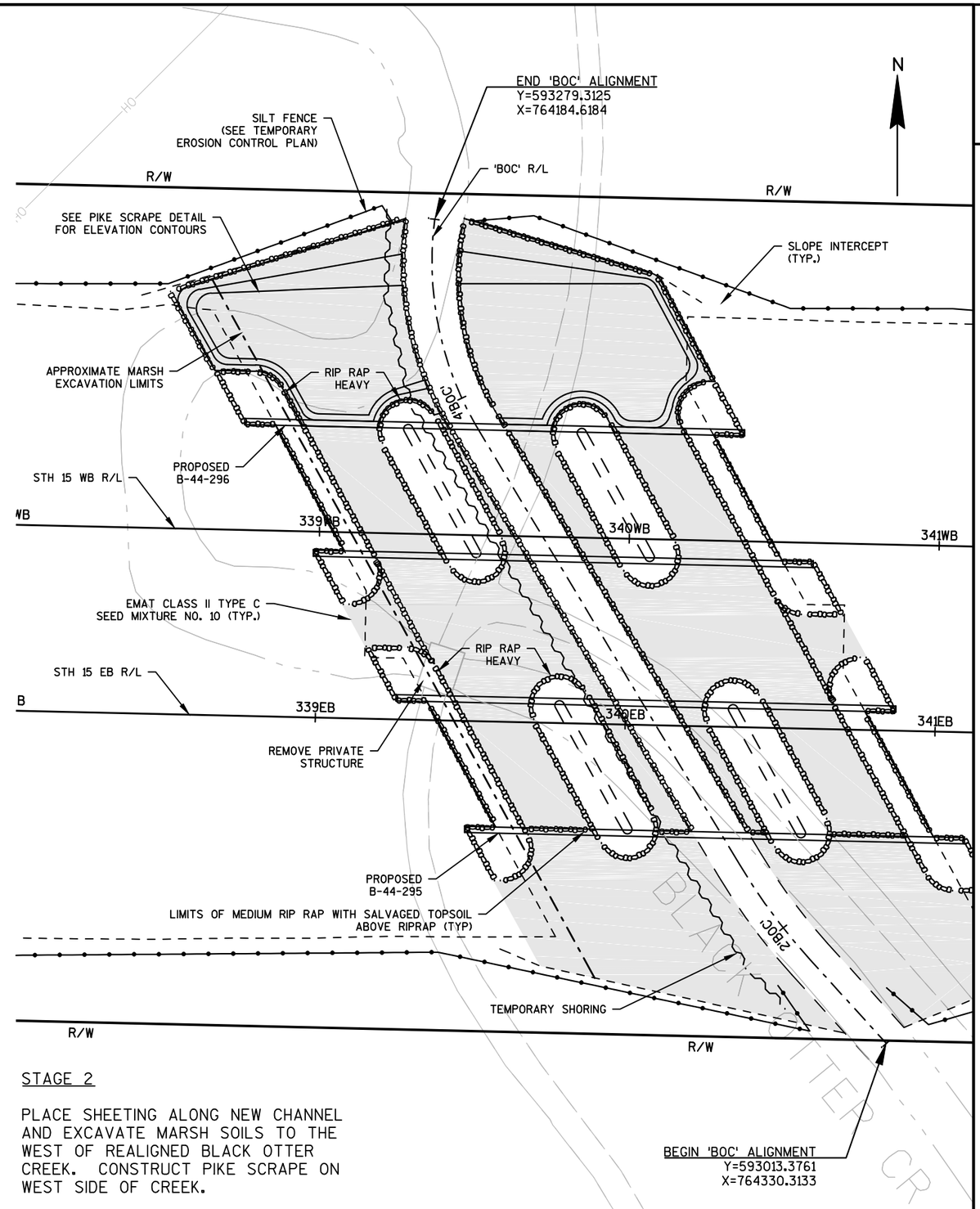


STAGE 1

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.

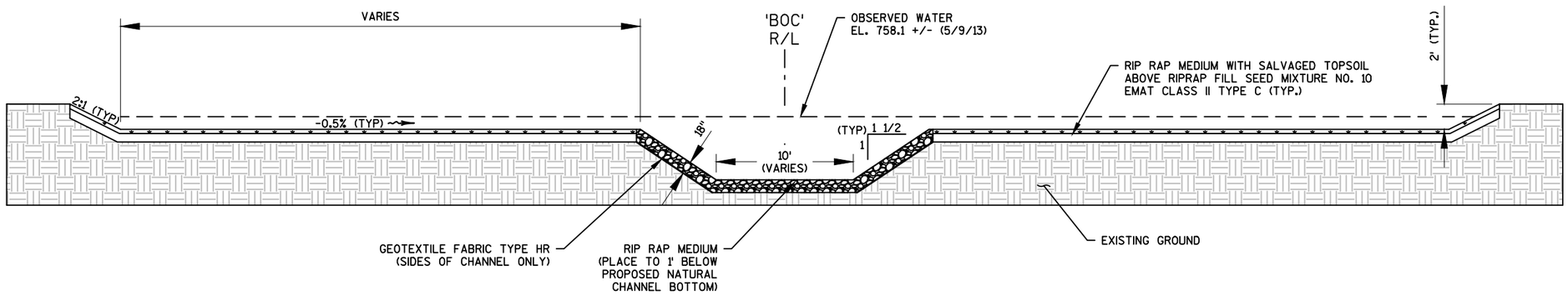


STAGE 2

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

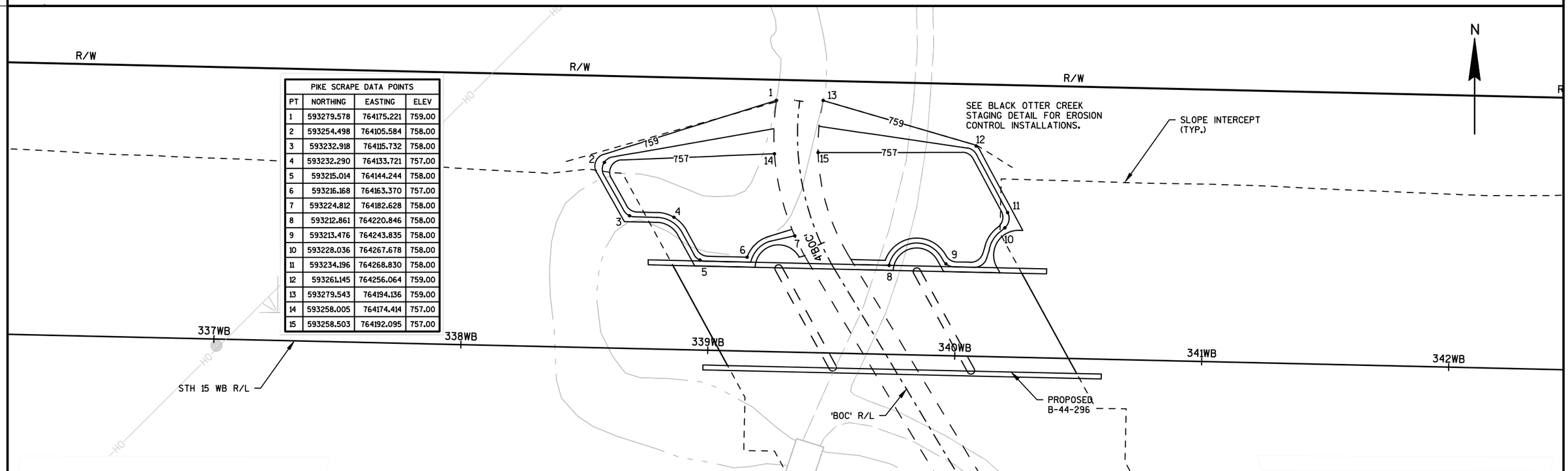
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS - BLACK OTTER CREEK STAGING	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021019_CD.DWG
11467571_PLAN - 021020_CD
PLOT DATE : 11/13/2017 7:48 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42



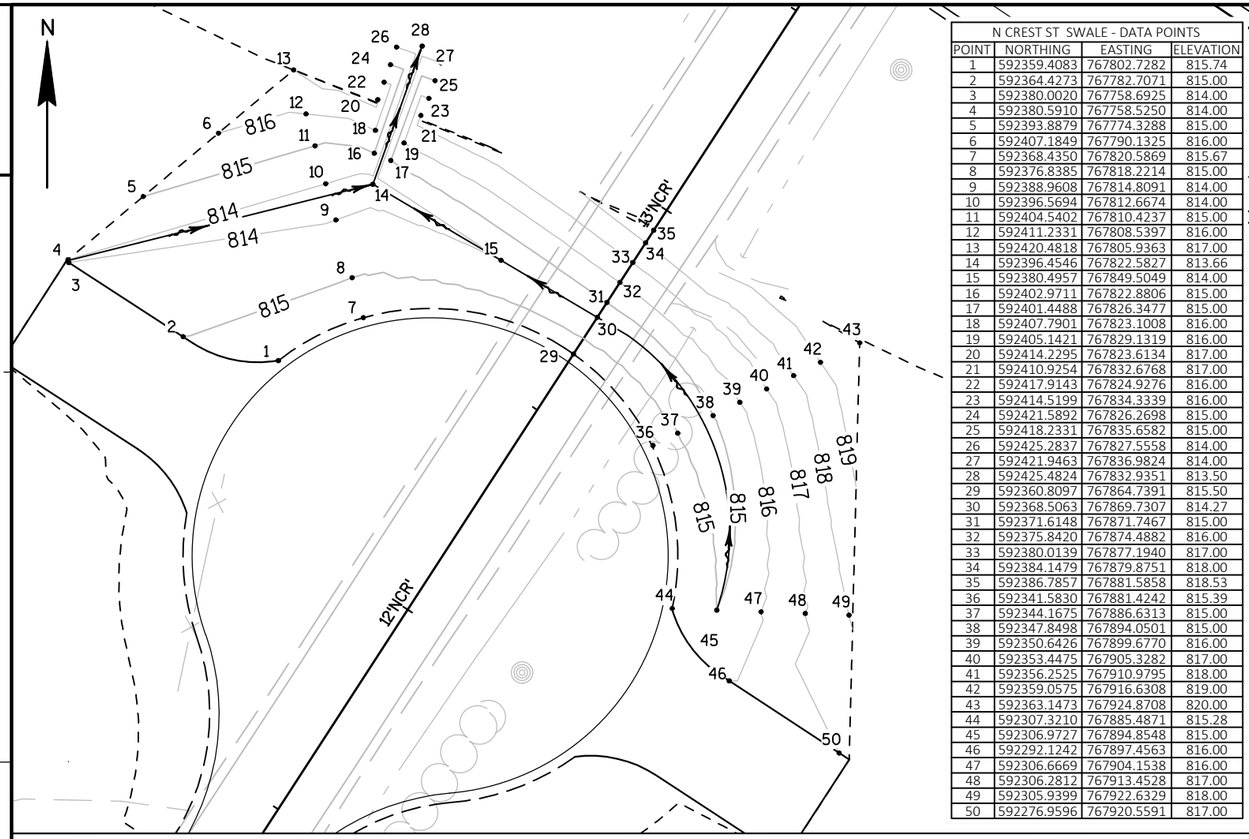
PIKE SCRAPE DETAIL

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

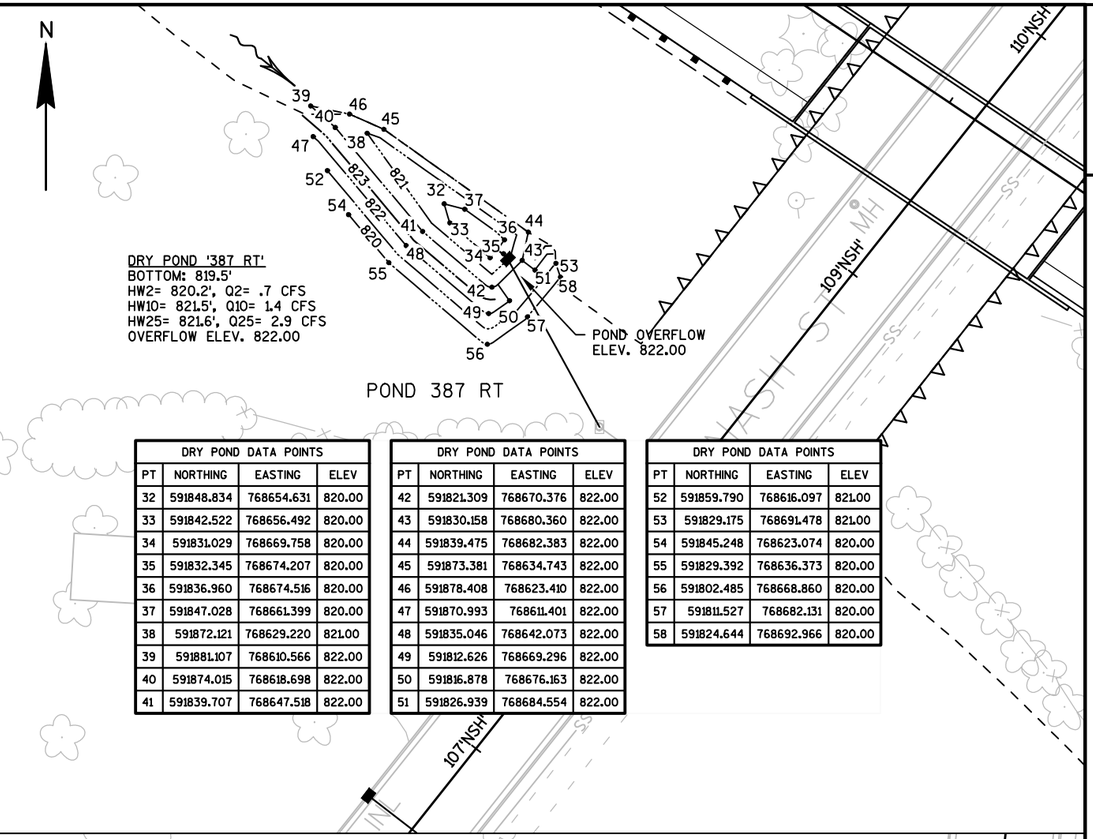


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION DETAIL - BLACK OTTER CREEK PIKE SCRAPE	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021019_CD.DWG
LAYOUT NAME - 021021_CD
PLOT DATE : 11/13/2017 7:49 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



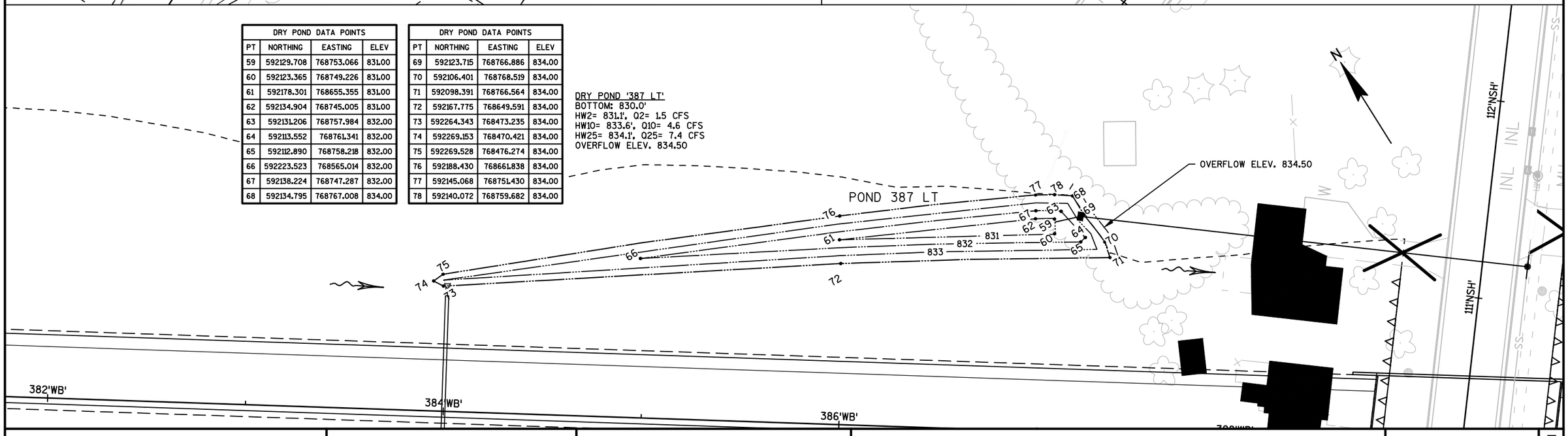
DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
32	591848.834	768654.631	820.00
33	591842.522	768656.492	820.00
34	591831.029	768669.758	820.00
35	591832.345	768674.207	820.00
36	591836.960	768674.516	820.00
37	591847.028	768661.399	820.00
38	591872.121	768629.220	821.00
39	591881.107	768610.566	822.00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

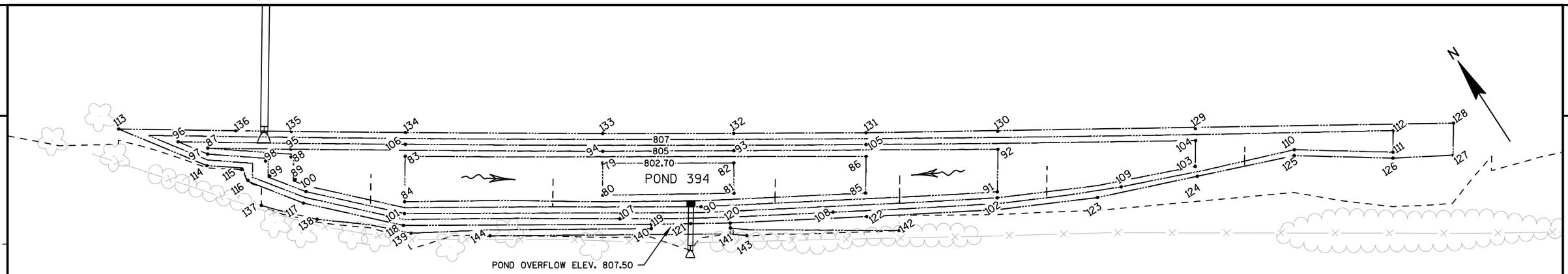
DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
69	592123.715	768766.886	834.00
70	592106.401	768768.519	834.00
71	592098.391	768766.564	834.00
72	592167.775	768649.591	834.00
73	592264.343	768473.235	834.00
74	592269.153	768470.421	834.00
75	592269.528	768476.274	834.00
76	592188.430	768661.838	834.00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

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

PLOT DATE : 1/31/2017 11:31 AM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1:40_XREF



2

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

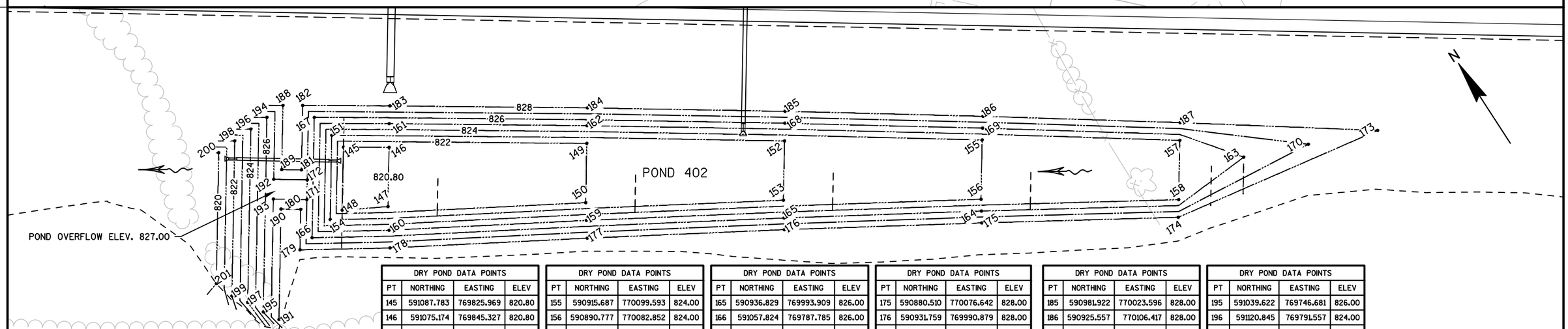
DRY POND DATA POINTS			
PT	NORTHING	EASTING	ELEV
109	591305.738	769352.868	807.00
110	591273.656	769436.568	807.00
111	591245.322	769477.755	807.00
112	591254.448	769483.896	807.00
113	591607.426	768943.644	808.00
114	591567.468	768970.944	808.00
115	591556.202	768984.580	808.00
116	591549.845	768984.303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

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021022_CD.DWG
LAYOUT NAME - 021023_CD
PLOT DATE : 1/31/2017 11:32 AM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1 IN:50 FT
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

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)

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.

DIMENSIONS AND RADII TO CURB FLANGE
LINE UNLESS OTHERWISE NOTED.

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

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

CTH M

90°

12'

783.41

24' +25 RT

3' SHOULDER
(2' PAVED)

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

782.22

782.40

+25'M' 61
31.06' LT

R40'

24' +55 RT

3'

15' +35 RT

12' +55 RT

+64
15' LT

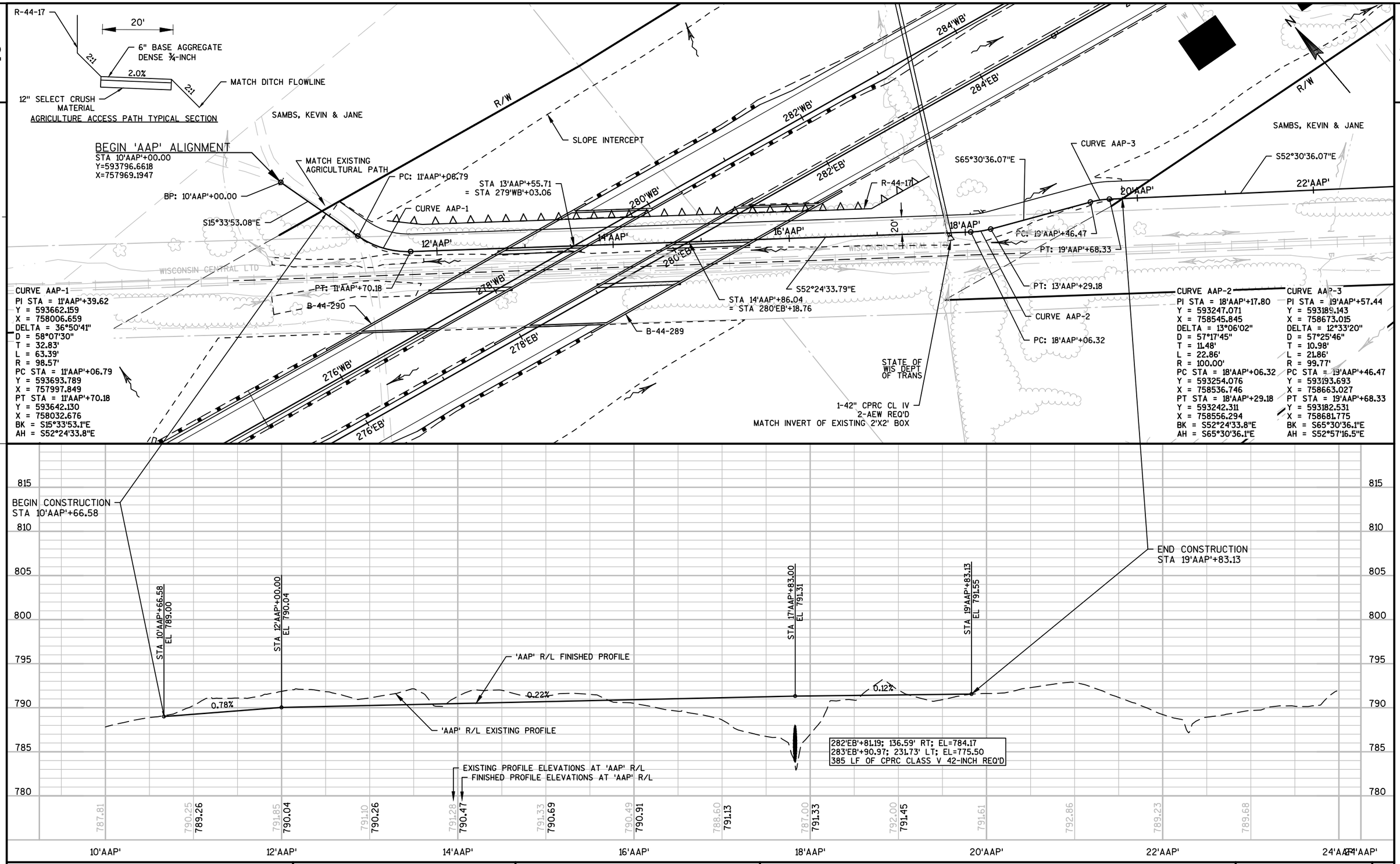
781.82

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

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

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

PLOT DATE : 11/7/2017 7:38 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - AGRICULTURE ACCESS PATH	SHEET	E

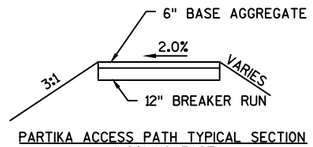
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021804_CD.DWG
LAYOUT NAME - 021804_CD
PLOT DATE : 8/6/2019 7:23 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN: 100 FT_XREF
WISDOT/CADDS SHEET 44

2

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

SAMBS, KEVIN & JANE

SLOPE INTERCEPT

PC: 0'PAP'+13.67

CURVE PAP-1

PT: 1'PAP'+28.89

S82°27'37.56"E

PC: 3'PAP'+11.75

PT: 3'PAP'+40.33

PC: 4'PAP'+02.49

CURVE PAP-3

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'

PARTIKA, IRVING J & GENEVRA

N

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

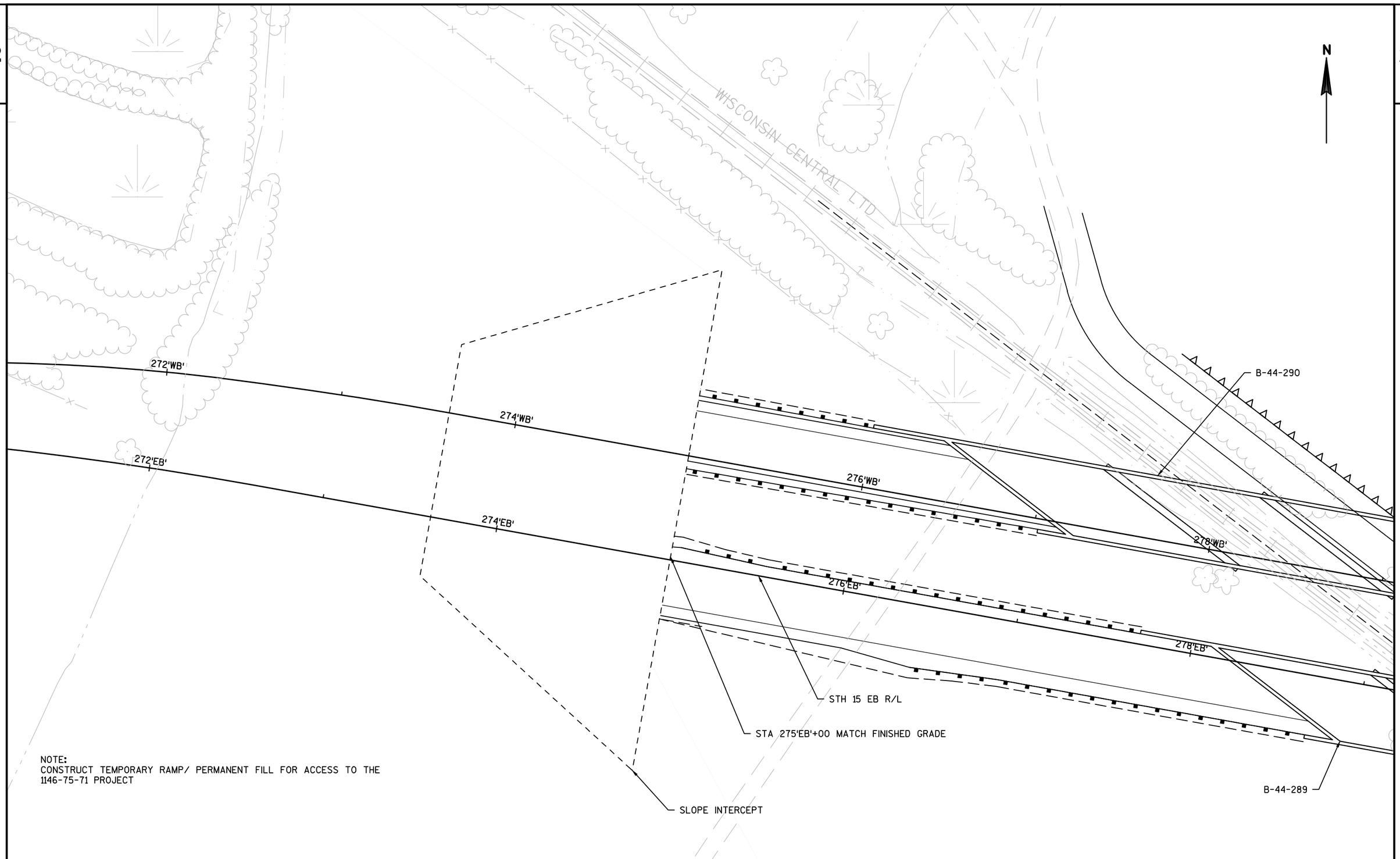
773.81	771.65	764.19	764.95	772.63	771.85
774.00	776.34	777.00	777.00	775.41	772.23

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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021805_CD.DWG
LAYOUT NAME - 021805_CD
PLOT DATE : 6/19/2017 9:04 AM PLOT BY : SIMMONS, MASON A PLOT NAME :
PLOT SCALE : 1IN = 100FT_XREF

2

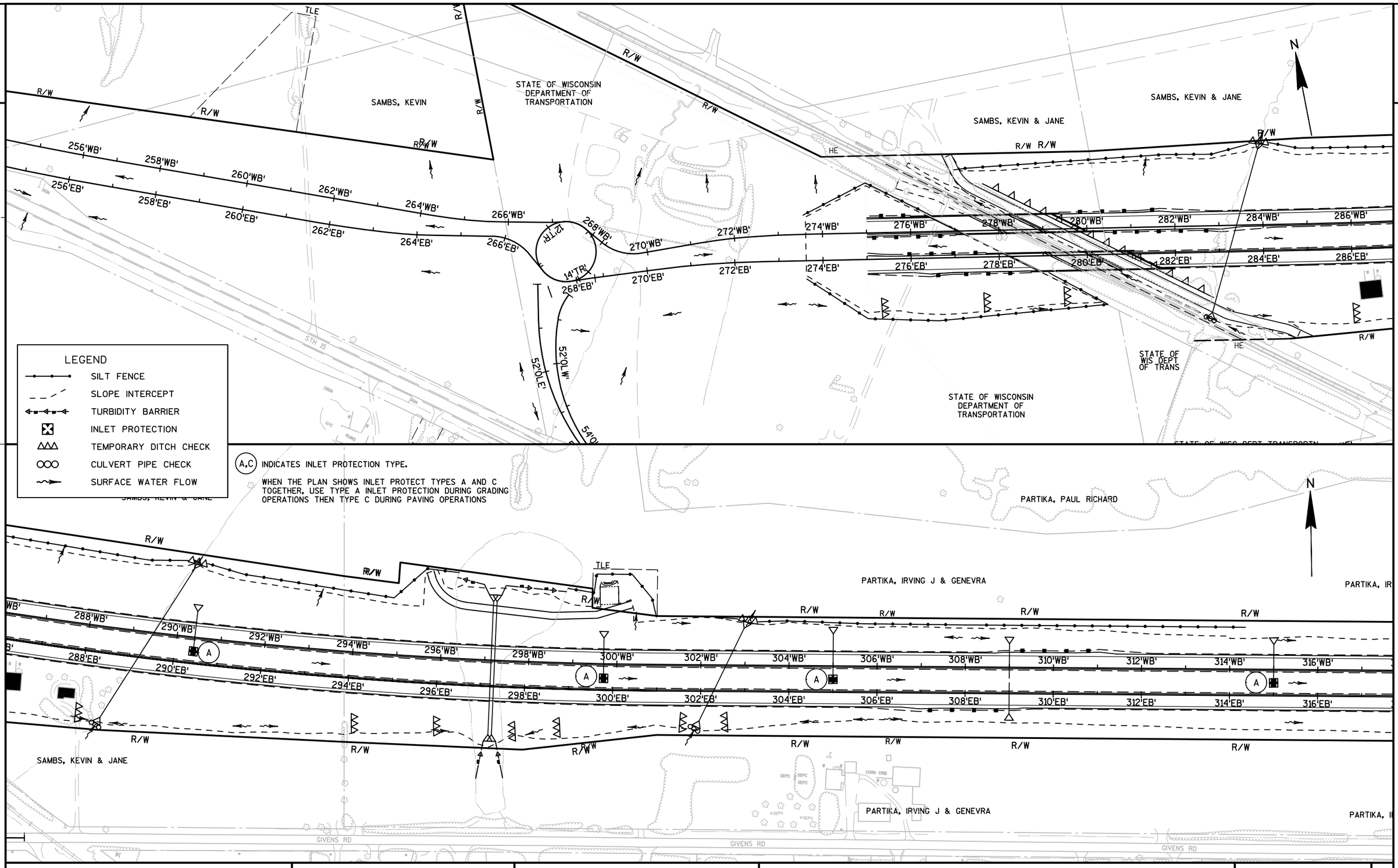


NOTE:
CONSTRUCT TEMPORARY RAMP/ PERMANENT FILL FOR ACCESS TO THE 1146-75-71 PROJECT

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

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_021806_CD.DWG
LAYOUT NAME - 021806_CD
PLOT DATE : 8/6/2019 7:27 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2



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

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_022001_EC.DWG
LAYOUT NAME - 022001-EC
PLOT DATE : 8/6/2019 7:31 AM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1IN = 200FT_XREF

2

2

PARTIKA, IRVING J & GENEVRA

SYKES, JAMES I & MARIANN D

PARKER, DON E & MARGARET E

SEE BLACK OTTER CREEK CONSTRUCTION DETAILS

TLE

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

N

PARTIKA, IRVING J & GENEVRA

SYKES, JAMES I & MARIANN D

PARKER, DON E & MARGARET E

BLACK OTTER CR

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

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'

A,C

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

VILLAGE OF HORTONVILLE

BREITRICK, MARK

TLE

FOUND

POOL

ATHLETIC FIELD

24"W

22"W

20"W

18"W

36"W

12"NCP

FINK, KEITH A

SCHERNICK, MICHAEL S

GRAND VIEW GOLF CLUB INC

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

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

PLOT DATE : 8/6/2019 7:31 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1IN = 200FT_XREF

2

HEYES, EDWARD K & LINDA F

THE ESTATE OF EMELINE A BREITRICK

KLOEHN, JANICE R

KLITZKE, LARRY L & WF

MULROY, BARRY J

CAPTAIN, PAUL A

NASH HILLS LLC

DODD, DARIN & MICHELLE

MURPHY, MARY L

114'NSH'

112'NSH'

110'NSH'

108'NSH'

106'NSH'

R/W

TLE

PLE

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'

A

30'OAK

THE ESTATE OF EMELINE A BREITRICK

RIEHL, THOMAS R

CLOSE, KENNETH L & DONNA J

HORTONVILLE SCHOOL DISTRICT

MURPHY, MICHAEL J & MARY L

VILLAGE OF HORTONVILLE

MURPHY, MARY L

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'

LEMKE, ALVIN H

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

MURPHY, MARY L

LEGEND

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

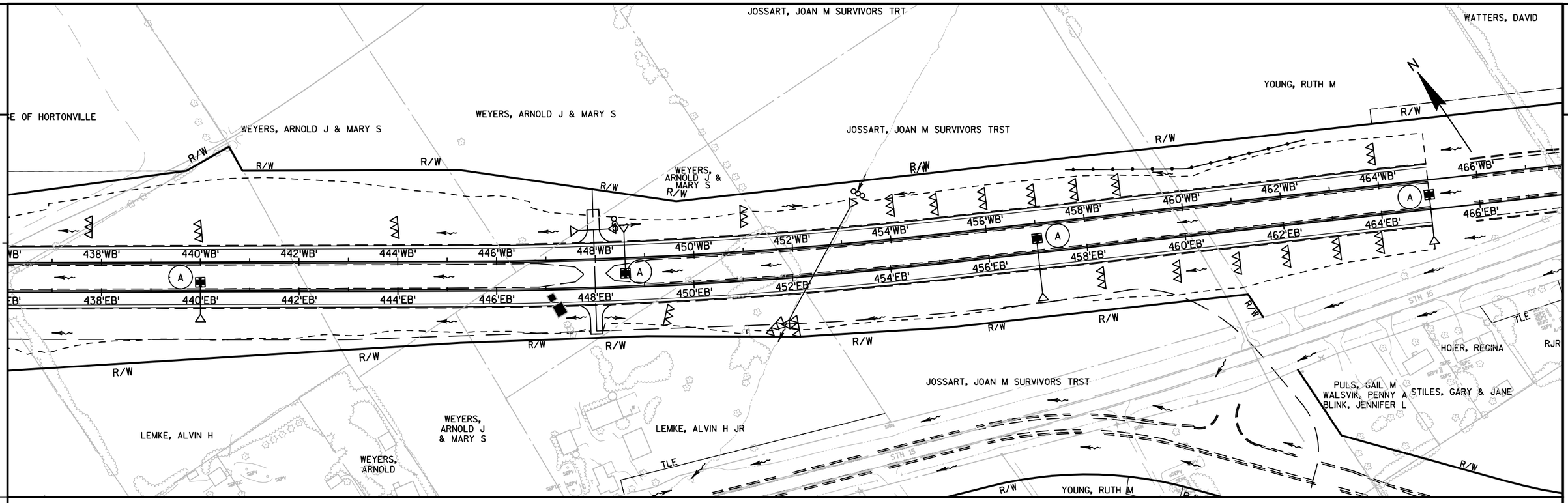
(A,C) INDICATES INLET PROTECTION TYPE.

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 - STH 15	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_022001_EC.DWG
LAYOUT NAME - 022003-EC

PLOT DATE : 8/6/2019 7:32 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1IN = 200FT_XREF



LEGEND

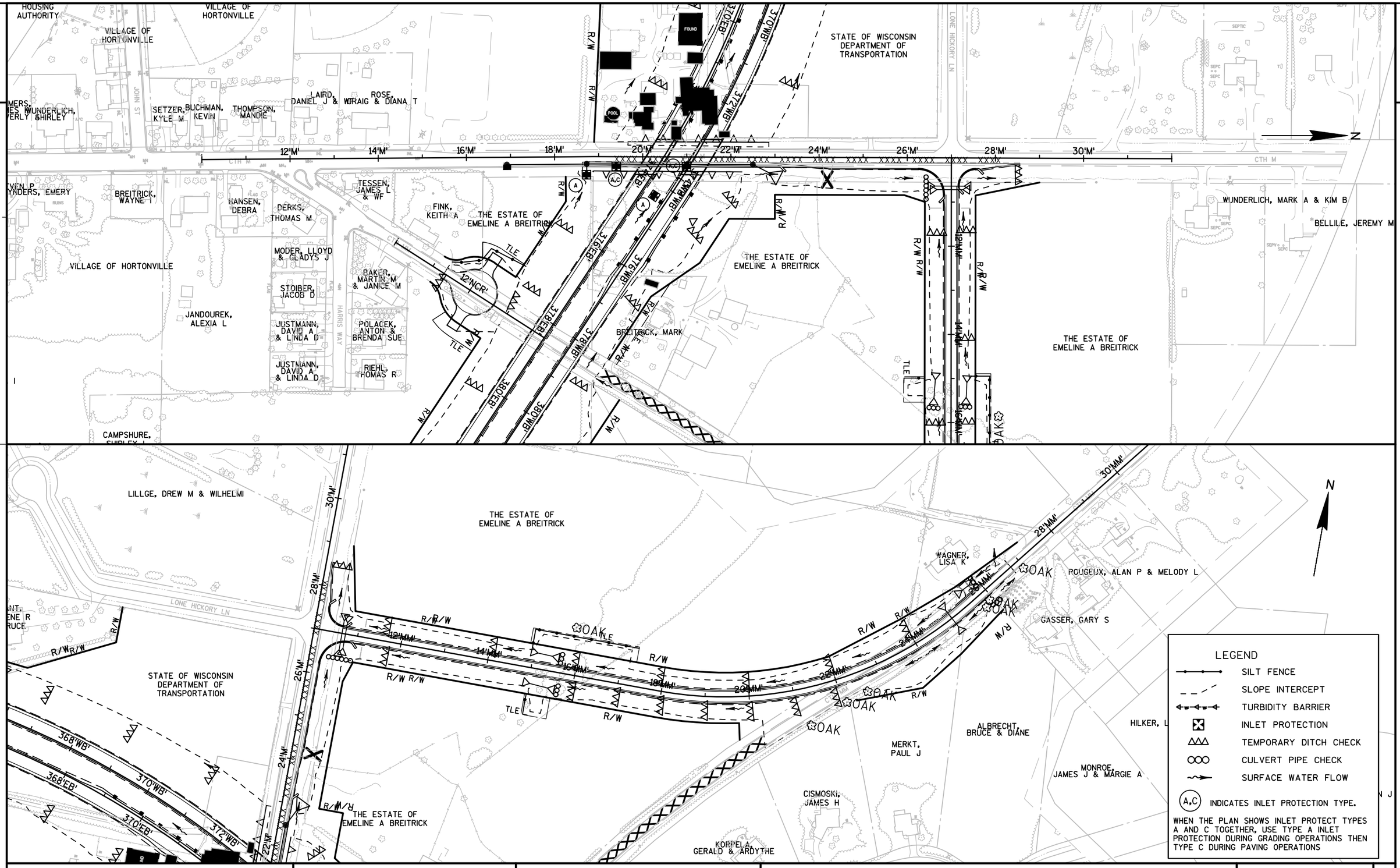
- SILT FENCE
- SLOPE INTERCEPT
- TURBIDITY BARRIER
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

(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 - STH 15	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_022001_EC.DWG
LAYOUT NAME - 022004-EC
PLOT DATE : 8/6/2019 7:33 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1IN = 200FT_XREF



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

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_022001_EC.DWG
LAYOUT NAME - 022005-EC
PLOT DATE : 8/6/2019 7:34 AM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1IN = 200FT_XREF

2

2

SAMBS, KEVIN

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

SAMBS, KEVIN & JANE

SAMBS, KEVIN & JANE

STATE OF WIS DEPT OF TRANS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

SAMBS, KEVIN & JANE

PARTIKA, PAUL RICHARD

PARTIKA, IRVING J & GENEVRA

PARTIKA, IR

SAMBS, KEVIN & JANE

PARTIKA, IRVING J & GENEVRA

PARTIKA, I

GIVENS RD

GIVENS RD

GIVENS RD

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE B
- 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	E

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

PLOT DATE : 8/6/2019 7:37 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 200'_XREF

2

2

PARTIKA, IRVING J & GENEVRA

SYKES, JAMES I & MARIANN D

PARKER, DON E & MARGARET E

SEE CONSTRUCTION DETAILS
FOR PERMANENT EROSION CONTROL AT BLACK OTTER CREEK

R/W

TLE

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

BLACK OTTER CR

PARKER, DON E & MARGARET E

STATE OF WISCONSIN
DEPARTMENT OF
TRANSPORTATION

GRANT,
DARLENE R
& BRUCE

THE ESTATE OF
EMELINE A BREITRICK

BREITRICK, MARK

TLE

LEGEND

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

GRAND VIEW GOLF CLUB INC

SCHERNICK, MICHAEL S

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' 376'EB' 378'EB'

RIP RAP MEDIUM

STATE OF WISCONSIN
DEPARTMENT OF
TRANSPORTATION

VILLAGE OF HORTONVILLE

ATHLETIC FIELD

PERMANENT STONE
DITCH CHECK

THE ESTATE OF
EMELINE A BREITRICK

12"NCP

FINK,
KEITH A

24'W

22'W

20'W

18'W

16'W

SCHERNICK, MICHAEL S

GRAND VIEW GOLF CLUB INC

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

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

PLOT DATE : 8/6/2019 7:38 AM

PLOT BY : SIMMONS, MASON A

PLOT NAME :

PLOT SCALE : 1" = 200'_XREF

2

HEYES, EDWARD K & LINDA F

THE ESTATE OF EMELINE A BREITRICK

KLOEHN, JANICE R

KLITZKE, LARRY L & WF

MULROY, BARRY J

CAPTAIN, PAUL A

NASH HILLS LLC

DODD, DARIN & MICHELLE

MURPHY, MARY L

SARGENT, NICHOLAS J

HOLEC, RONALD & GERALDINE

114'NSH'

112'NSH'

110'NSH'

108'NSH'

106'NSH'

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'

R/W

TLE

PERMANENT STONE DITCH CHECK

THE ESTATE OF EMELINE A BREITRICK

RIEHL, THOMAS R

POLACEK, ANTON & BRENDA SUE

HARRIS WAY

JUSTMANN, DAVID A & LINDA D

CLOSE, KENNETH L & DONNA J

HORTONVILLE SCHOOL DISTRICT

MURPHY, MICHAEL J & MARY L

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

VILLAGE OF HORTONVILLE

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'

PERMANENT STONE DITCH CHECK

LEMKE, ALVIN H

LEGEND

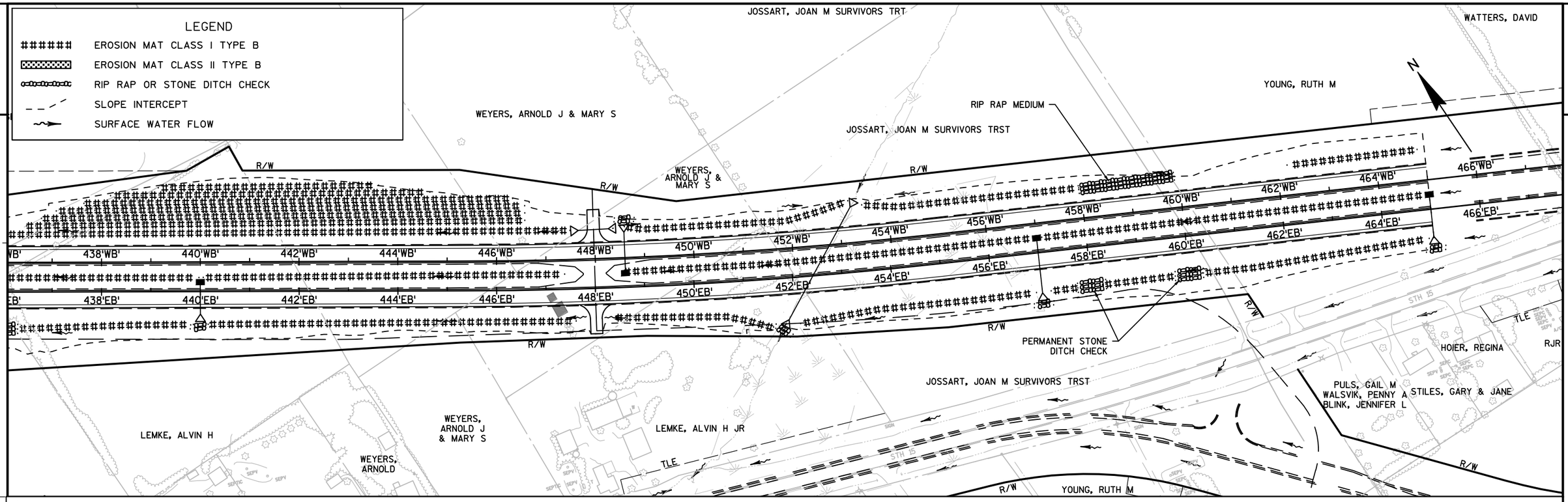
- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE B
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- SURFACE WATER FLOW

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

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_022006_EC.DWG
LAYOUT NAME - 022008-EC

PLOT DATE : 8/6/2019 7:39 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 200'_XREF

WISDOT/CADDS SHEET 44



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

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_022006_EC.DWG
LAYOUT NAME - 022009-EC
PLOT DATE : 8/6/2019 7:40 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 200'_XREF

2

LEGEND

- EROSION MAT CLASS I B
- EROSION MAT CLASS II TYPE B
- 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
RIP RAP MEDIUM
TLE
12'NCR'
VILLAGE OF HORTONVILLE
MODER, LLOYD & GLADYS J
BAKER, MARTIN M & JANICE M
STOIBER, JACOB D
JANDOUREK, ALEXIA L
JUSTMANN, DAVID A & LINDA D
POLACEK, ANTON & BRENDA SUE
HARRIS WAY
JUSTMANN, DAVID A & LINDA D
RIEHL, THOMAS R
BREITRICK, MARK
THE ESTATE OF EMELINE A BREITRICK
WUNDERLICH, MARK A & KIM B
BELLILE, JEREMY M
THE ESTATE OF EMELINE A BREITRICK
R/W
370'EB' 372'EB' 370'WB' 372'WB' 376'EB' 376'WB' 378'EB' 378'WB' 380'EB' 380'WB'
N
LILLGE, DREW M & WILHELMI
THE ESTATE OF EMELINE A BREITRICK
WAGNER, LISA K
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
OAK
LONE HICKORY LN
24'MM' 26'MM' 28'MM' 30'MM'
368'WB' 310'WB' 368'EB' 370'EB' 372'WB'
PERMANENT STONE DITCH CHECK
THE ESTATE OF EMELINE A BREITRICK
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
12'MM' 14'MM' 16'MM' 18'MM' 20'MM' 22'MM' 24'MM' 26'MM' 28'MM' 30'MM'
22'W' 24'W' 26'W' 28'W' 30'W'

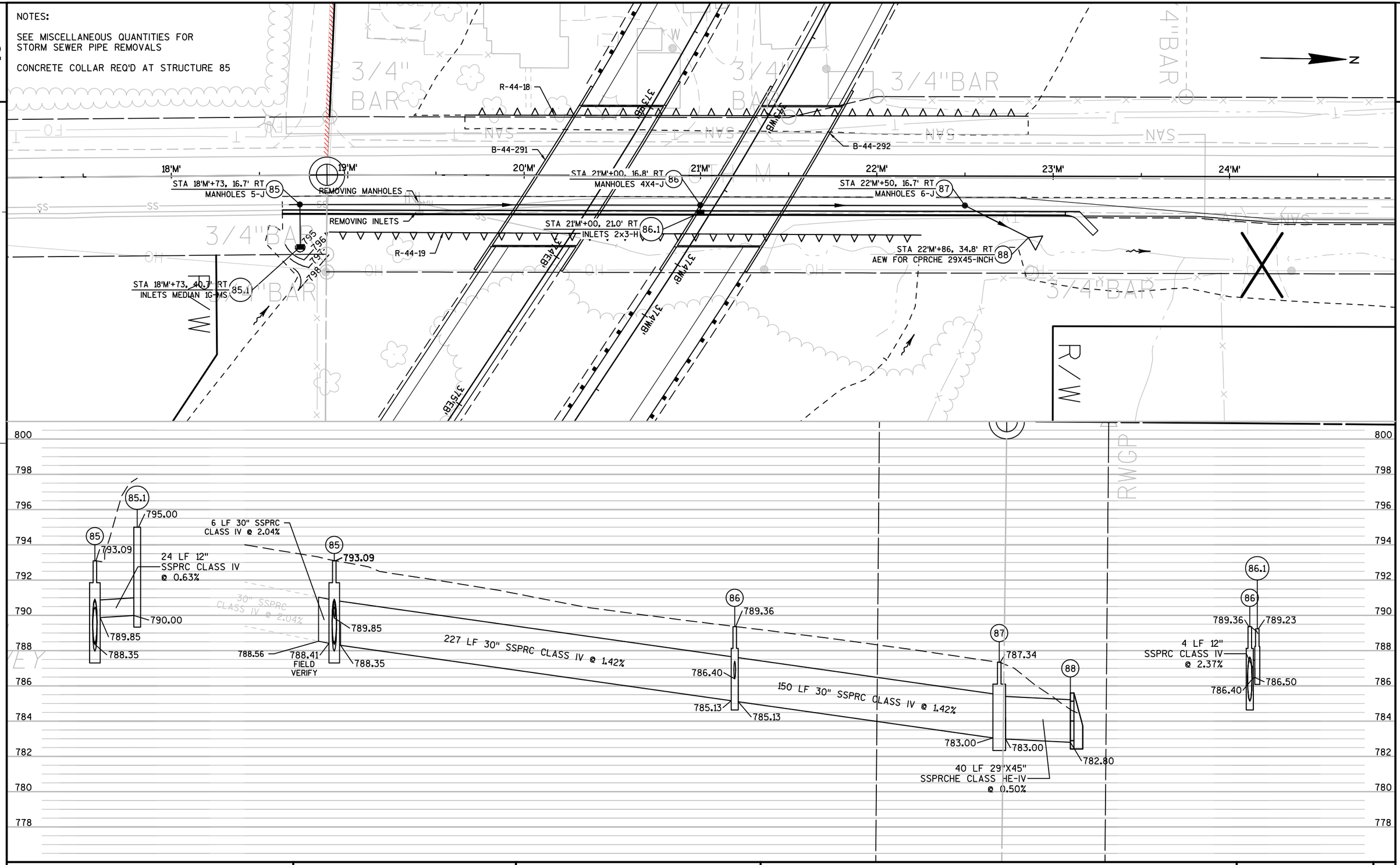
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PERMANENT EROSION CONTROL - CTH M, CTH MM, N CREST ST.	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_022006_EC.DWG
LAYOUT NAME - 022010-EC
PLOT DATE : 8/6/2019 7:41 AM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1" = 200'_XREF

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	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

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 No. (1.1)

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

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

ASPHALTIC SURFACE PATCHING 4"
MATCH EXISTING CURB & GUTTER AND ROADWAY GRADES

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

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

N NASH ST

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

826 824 822 820 818 816 814 812 810

836 834 832 830 828 826 824 822 820

1.2 821.50
6 LF 12" SSPRC @ 1.62%
819.50
819.40
817.75
815.80
814.20
814.10 FIELD VERIFY
57 LF 12" SSPRC @ 3.49%
63 LF 12" SSPRC CLASS III @ 2.54%

2.0 830.37
6 LF 15" SSPRC CLASS III @ 4.48%
15" SSPRC CLASS III @ 3.61%
15" SSPRC CLASS III @ 4.48%
6 LF 15" SSPRC CLASS III @ 3.61%
826.03 FIELD VERIFY
825.83 FIELD VERIFY
826.00

2.1 833.50
13 LF 12" SSPRC @ 0.76%
830.00
829.90
827.50
227 LF 12" SSPRC CLASS III @ 0.66%
826.00
2.0 830.37
825.94 FIELD VERIFY

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

2

2

MULROY, BARRY J

CAPTAIN, PAUL A

HOIER, RONALD & GERALDINE

R/W

R/W

R/W

R/W

INL

MH

RUINS

SEPV

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

LEGEND

abc / xx — PLANT SYMBOL / QUANTITY

PB = PAPER BIRCH

AA = AMERICAN ARBOR VITAE

RD = REDOSIER DOGWOOD

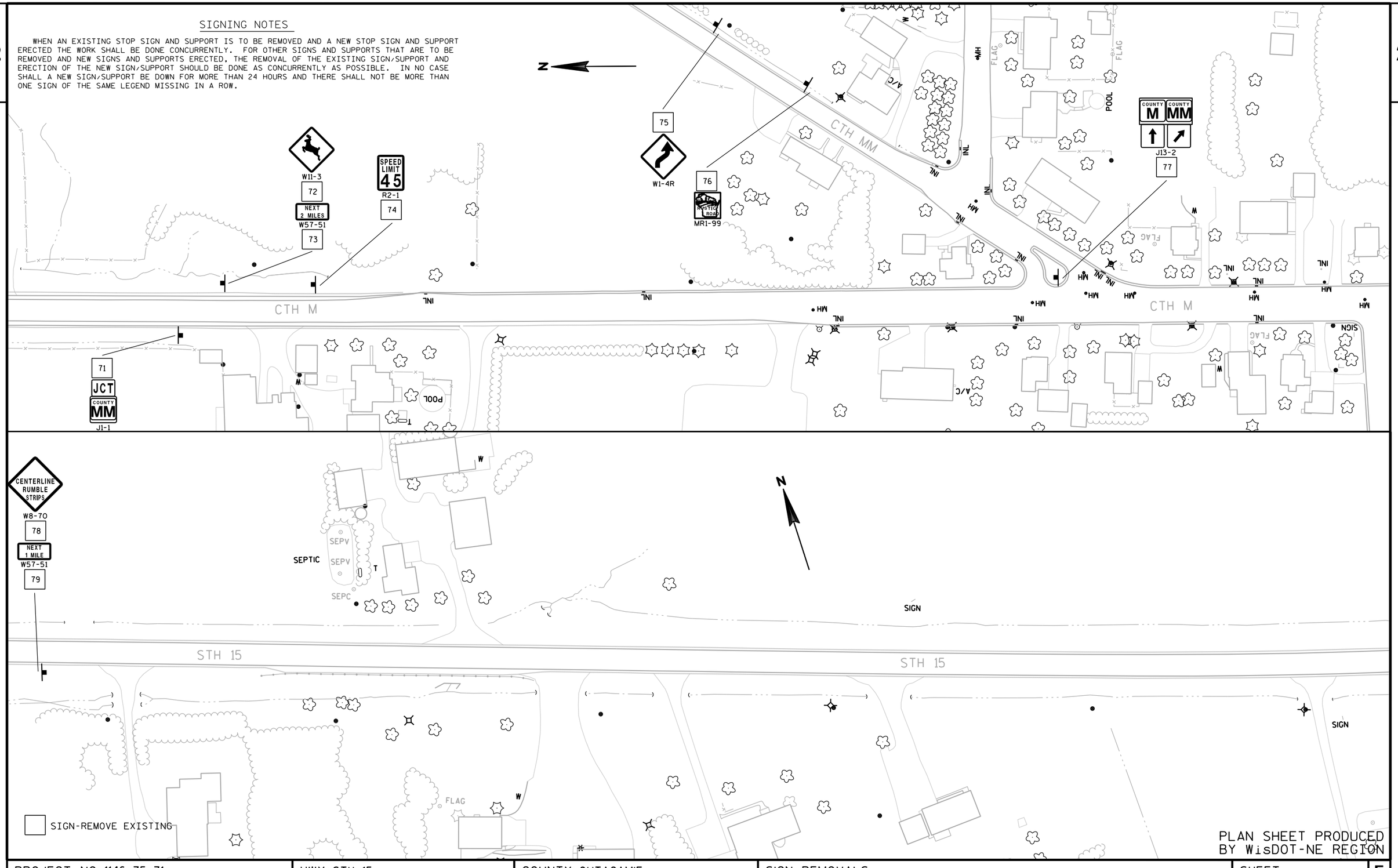
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	LANDSCAPING - HIGH SCHOOL SCREENING	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_023101_PL.DWG
LAYOUT NAME - 023102_PL

PLOT DATE : 6/13/2017 12:37 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN: 100 FT_XREF

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 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

2

N OLK ST

CTH M

CTH MM

NORTH CREST RD

N

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
J13-1
24" X 45"

341
STOP
R1-1
30" X 30"

342
COUNTY
M
J13-1
24" X 45"

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

342 A
COUNTY
MM
J13-1
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

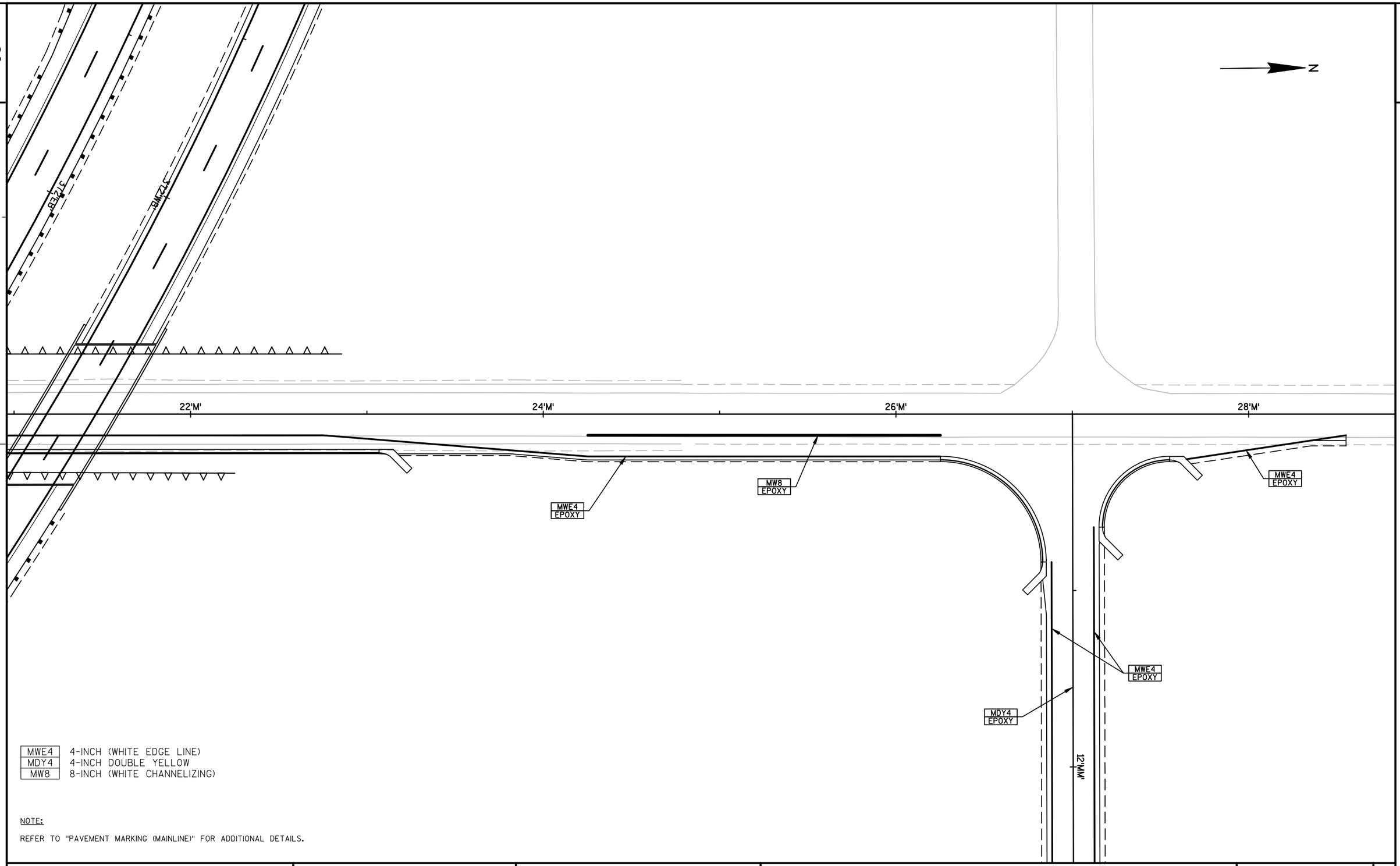
PLAN SHEET PRODUCED BY WisDOT-NE REGION

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

FILE NAME : N:\spo\traffic\SIGNING\Projects\1146-75-00 STH 15 Bypass\1146-75-71\023228_ps.dgn PLOT DATE : 10-APR-2017 09:51 PLOT BY : dotets PLOT NAME : PLOT SCALE : 100:1

2

N



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

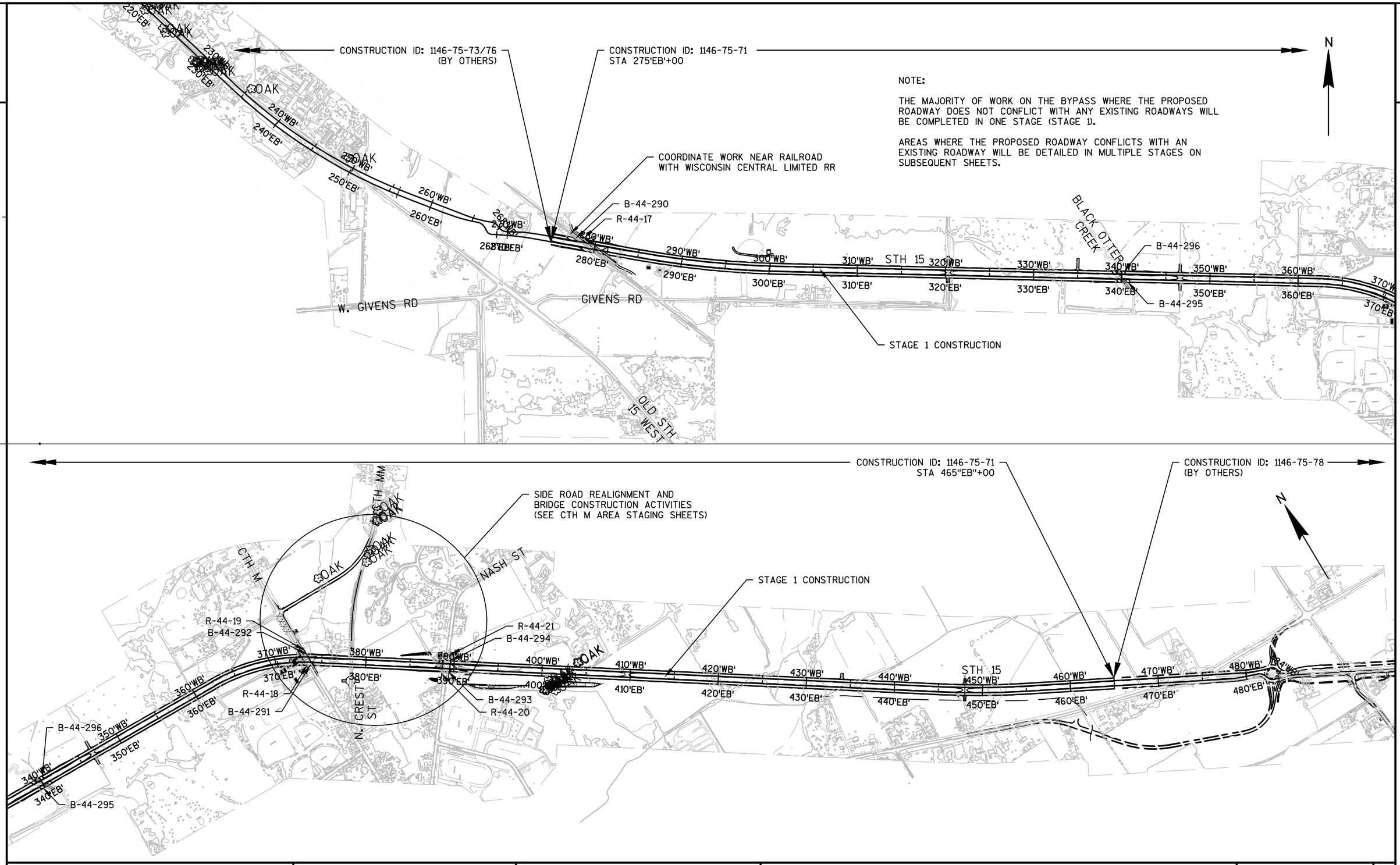
NOTE:

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

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

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_024501_PM.DWG
LAYOUT NAME - 024504_PM

PLOT DATE : 6/12/2017 10:33 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:50 FT



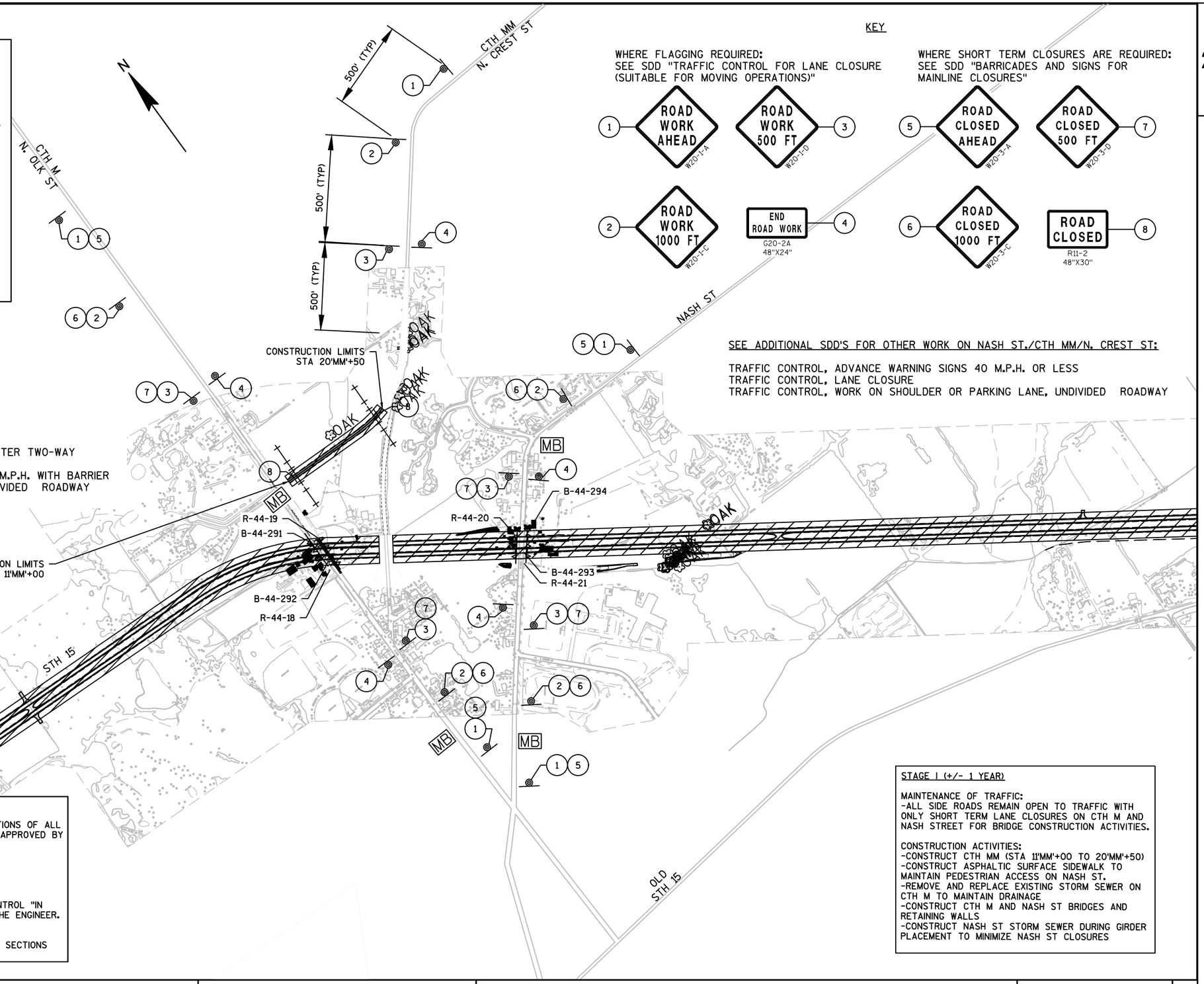
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - PROJECT OVERVIEW	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_026001-S.DWG
11467571_PLAN - 026001-S

PLOT DATE : 8/6/2019 7:50 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:1000 FT

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)"

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

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.

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. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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

STAGE 1 (+/- 1 YEAR)

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.

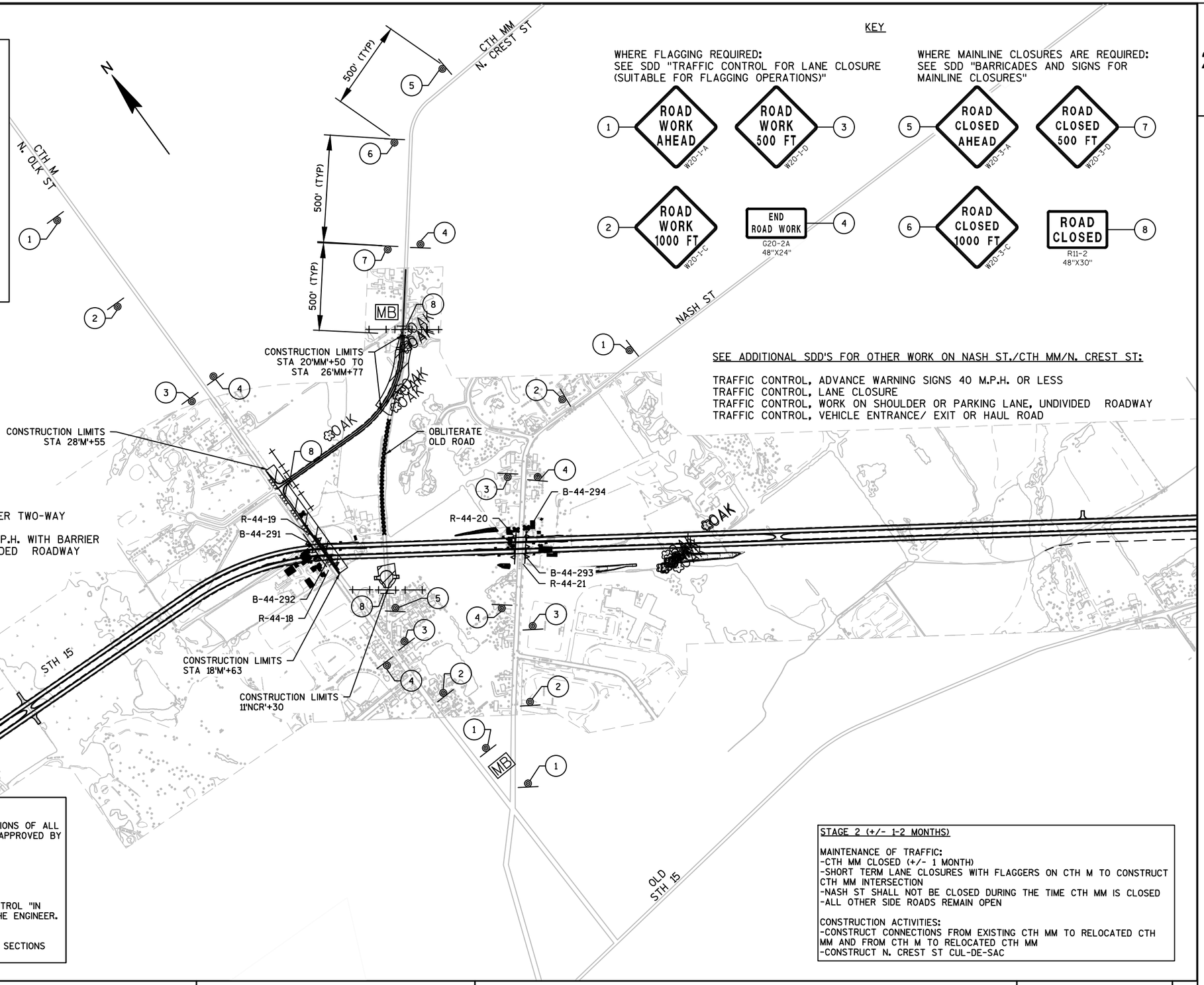
CONSTRUCTION ACTIVITIES:
-CONSTRUCT CTH MM (STA 11'MM'+00 TO 20'MM'+50)
-CONSTRUCT ASPHALTIC SURFACE SIDEWALK TO MAINTAIN PEDESTRIAN ACCESS ON NASH ST.
-REMOVE AND REPLACE EXISTING STORM SEWER ON CTH M TO MAINTAIN DRAINAGE
-CONSTRUCT CTH M AND NASH ST BRIDGES AND RETAINING WALLS
-CONSTRUCT NASH ST STORM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

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_026005-S.DWG
11467571_PLAN - 026005-S
PLOT DATE : 8/6/2019 7:51 AM PLOT BY : SIMMONS, MASON A PLOT NAME : _____ PLOT SCALE : 1 IN:800 FT

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 FLAGGING OPERATIONS)"

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

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

5 ROAD CLOSED AHEAD W20-3-A
7 ROAD CLOSED 500 FT W20-3-D
6 ROAD CLOSED 1000 FT W20-3-C
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
TRAFFIC CONTROL, VEHICLE ENTRANCE/ EXIT OR HAUL ROAD

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 IN 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. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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

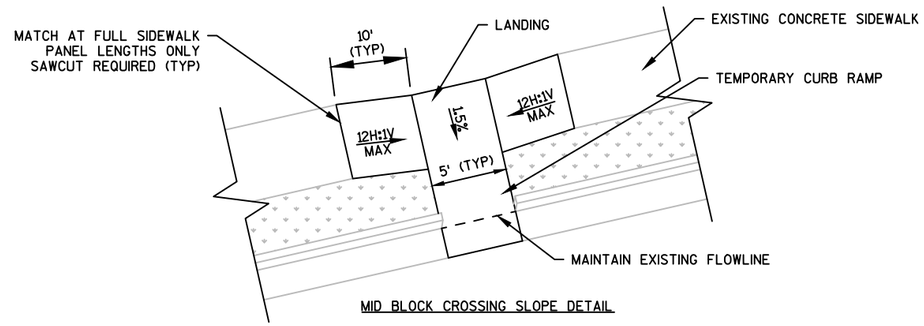
STAGE 2 (+/- 1-2 MONTHS)

MAINTENANCE OF TRAFFIC:
-CTH MM CLOSED (+/- 1 MONTH)
-SHORT TERM LANE CLOSURES WITH FLAGGERS ON CTH M TO CONSTRUCT CTH MM INTERSECTION
-NASH ST SHALL NOT BE CLOSED DURING THE TIME CTH MM IS CLOSED
-ALL OTHER SIDE ROADS REMAIN OPEN

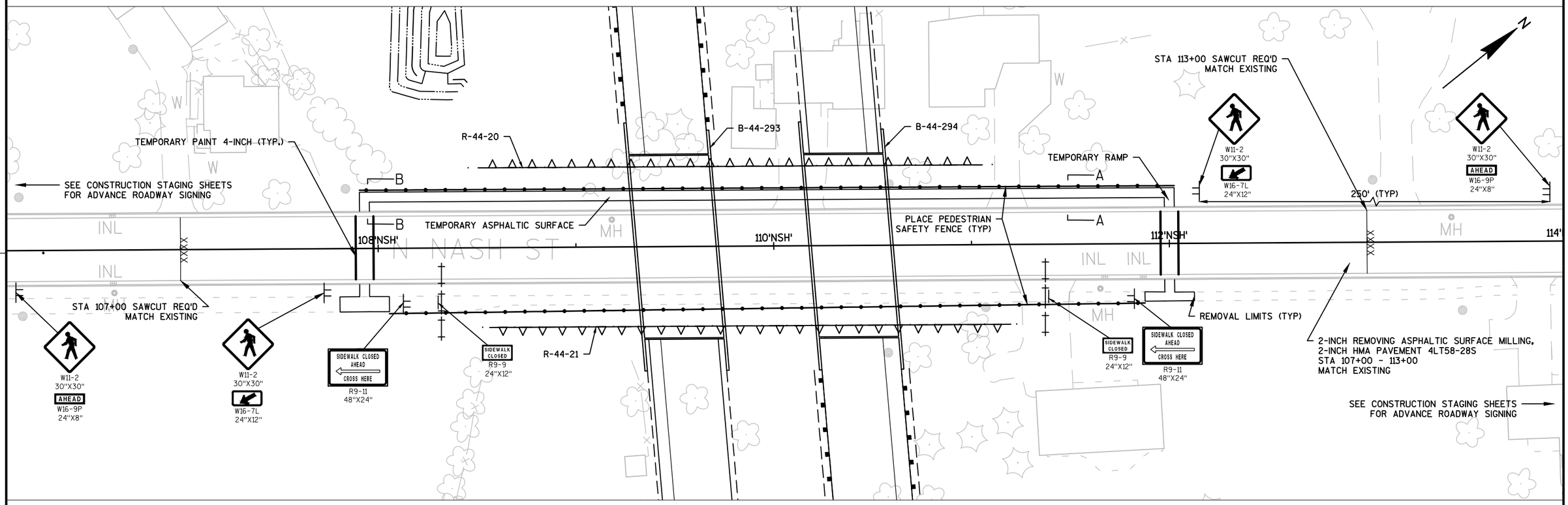
CONSTRUCTION ACTIVITIES:
-CONSTRUCT CONNECTIONS FROM EXISTING CTH MM TO RELOCATED CTH MM AND FROM CTH M TO RELOCATED CTH MM
-CONSTRUCT N. CREST ST CUL-DE-SAC

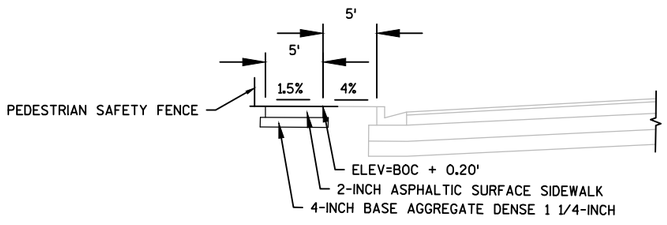
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - CTH M AREA - STAGE 2	SHEET _____	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_026006-S.DWG
11467571_PLAN - 026006-S
PLOT DATE : 8/6/2019 7:51 AM PLOT BY : SIMMONS, MASON A PLOT NAME : ---------- PLOT SCALE : 1 IN:800 FT
WISDOT/CADDS SHEET 42

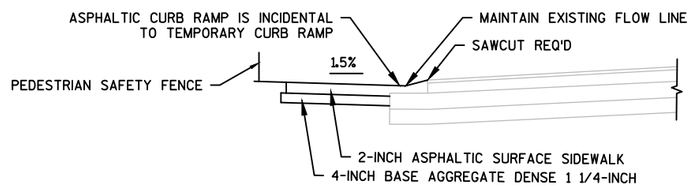


MID BLOCK CROSSING SLOPE DETAIL





SECTION A-A



SECTION B-B

NOTES:

REMOVE EXISTING CURB & GUTTER AND REPLACE WITH CONCRETE CURB & GUTTER 30-INCH TYPE D

CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE ADJACENT TO TEMPORARY SIDEWALK.

EXACT LOCATION OF TEMPORARY SIDEWALK 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

HE

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

285'EB'+15
192.40' RT

3'

R/W

SAMBS

HE

STATE OF
WIS DEPT
OF TRANS

STATE OF WISCONSIN
DEPARTMENT OF
TRANSPORTATION

STATE OF WISC DEPT TRANSPORTN

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 - 027102_FN

PLOT DATE : 8/6/2019 7:56 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN : 100 FT_XREF

2

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

SAMBS, KEVIN & JANE

P.L.

N

3/4"BAR

TLE

R/W

294'WB'+94
-160.13' LT

296'WB'+24
-93.19' LT

298'WB'+50
-76.48' LT

299'WB'+75
-82.85' LT

301'WB'+00
-105.99' LT

21'

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

298'EB'+03
136.58' RT

296'EB'+70
136.56' RT

297'EB'+81
136.83' RT

R/W

288'EB'+50
172.01' RT

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

3/4"BAR
1"IP
GIVENS RD
1"IP
1"IP

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 : 8/6/2019 7:56 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN : 100 FT_XREF

WISDOT/CADDS SHEET 42

2

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

3/4"BAR
P.L.
PARTIKA, PAUL RICHARD
3/4"BAR
3/4"BAR
P.L.

N

LOT 1
CSM 3642
V19/P3642
DOC. 1351400

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
44.85' RT
309'EB'+05
44.03' RT
1'EB'+01
.00' RT

R/W
3'

1"IP

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

CORN CRIB

JENNERJO
PLAT OF SURVEY
V19/P3642
DOC. 1351400

SEPV
SEPV

PARTIKA, IRVING J & GENEVRA

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

LOT 1
CSM 3642
V19/P3642
DOC. 1351400

GIVENS RD

GIVENS RD

2

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 - 027104_FN

PLOT DATE : 8/6/2019 7:57 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN : 100 FT_XREF

WISDOT/CADDS SHEET 42

2

2

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

N

LOT 1
CSM 3642
V19/P3642
DOC. 1351400

SYKES, JAMES I & MARIANN D

R/W

PARTIKA, IRVING J & GENEVRA

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'

R/W

3'

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	E

2

2

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

N

PARKER, DON E & MARGARET E

TLE

R/W

3'

338'WB'+38
-107.00' LT

339'WB'+90
-107.00' LT

3'

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

R/W

3'

339'EB'+90
97.00' RT

341'EB'+42
97.00' RT

R/W

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

BLACK OTTER CR

P.L.

H0

PARKER, DON E & MARGARET E

PARKER, DON E & MARGARET E

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 - 027106_FN

PLOT DATE : 8/6/2019 7:57 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN : 100 FT_XREF

2

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

PARCEL "A"
GRANDVIEW GOLF CLUB
PLAT OF SURVEY
SCHERNICK, MICHAEL S

PARCEL "B"
GRANDVIEW GOLF CLUB
PLAT OF SURVEY

GRAND VIEW GOLF CLUB INC

P.L.

3/4"BAR

PIER

FOOTBRIDGE

N

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'+84
107.84' RT

360'EB'+32
108.54' RT

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

SCHERNICK, MICHAEL S

GRAND VIEW GOLF CLUB INC

STATE OF WI
DEPARTMEN
TRANSPORT

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 - 027107_FN

PLOT DATE : 8/6/2019 7:58 AM PLOT BY : SIMMONS, MASON A PLOT NAME :

PLOT SCALE : 1 IN : 100 FT_XREF

WISDOT/CADDS SHEET 42

2

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

FOWLE, DONALD D/ANN L JT RV TR

LOT 1
CSM 1946
V10/P1946
DOC. 1121

LOT 1
CSM 4252
V23/P4252
DOC. 1453682

LOT 2
CSM 4252
V23/P4252
DOC. 1453682

THE ESTATE OF
EMELINE A BREITRICK

GRANT,
DARLENE R
& BRUCE

STATE OF WISCONSIN
DEPARTMENT OF
TRANSPORTATION

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

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

VILLAGE OF HORTONVILLE

ATHLETIC FIELD

FINK,
KEITH A

JENNERJOHN
PLAT OF SURVEY

COLLAR
PLAT OF SURVEY

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 - 027108_FN
PLOT DATE : 8/6/2019 7:58 AM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1 IN : 100 FT_XREF

2

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

HEYES, EDWARD
K & LINDA F

KLOEHN,
JANICE R

MULROY, BARRY J

THE ESTATE OF
EMELINE A BREITRICK

KLITZKE, LARRY
L & WF

CAPTAIN, PAUL A

BREITRICK, MARK

379'WB'+65
-157.00' LT

391'WB'+34
-201.09' LT

391'WB'+31
-161.63' LT

388'WB'+81
-141.41' LT

388'WB'+14
126.72' LT

376'WB'+24
-87.00' LT

378'WB'+00
-87.00' LT

R/W
TLE
3"
112'NSH'
114'NSH'
110'NSH'

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'

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'
108'NSH'

THE ESTATE OF
EMELINE A BREITRICK

RIEHL,
THOMAS R

POLACEK,
ANTON &
BRENDA SUE

FINK,
KEITH A

BAKER,
MARTIN M
& JANICE M

JUSTMANN,
DAVID A
& LINDA D

CLOSE, KENNETH L
& DONNA J

106'NSH'

HARRIS WAY

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 - 027109_FN

PLOT DATE : 8/6/2019 7:59 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN : 100 FT_XREF

RY J

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

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

R/W

MURPHY, MARY L

DODD, DARIN & MICHELLE

LOT 2
CSM 4387
V24/P4387
DOC. 1480916

OUTLOT 1
CSM 4387
V24/P4387
DOC. 1480916

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'

LOT 3
CSM 4385
V24/P4385
DOC. 1480743

392'EB'+78
211.44' RT

R/W

PLE

TLE

3'

406'EB'+19
182.50' RT

R/W

OAK

CSM 4385
V24/P4385

HORTONVILLE SCHOOL DISTRICT

HOEWISCH, WALMER/MAX REV TRUST

SEPC
SEPV
INL
P.L.

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 - 027110_FN
PLOT DATE : 8/6/2019 7:59 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN : 100 FT_XREF
WISDOT/CADDS SHEET 42

2

2

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

N

R/W

R/W

MURPHY, MICHAEL J & MARY L

3/4"BAR

3/4"BAR

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'

420'EB'+69
162.00' RT

406'EB'+19
182.50' RT

LOT 3
CSM 4385
V24/P4385
DOC. 1480743

R/W

R/W

3/4"BAR

STATE OF WISCONSIN

HOIER SURVEY

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 - 027111_FN

PLOT DATE : 8/6/2019 8:00 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN : 100 FT_XREF

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

MURPHY, MARY L

TLE

VILLAGE OF HORTONVILLE

433'WB'+88
-108.19' LT

434'WB'+12
-108.55' LT

VILLAGE OF HORTONVILLE

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

3'

MURPHY, MARY L

VILLAGE OF HORTONVILLE

HOIER, DONALD & BONNIE

HOIER, GERALD & ROSE

HOIER PLAT OF SURVEY

P.L.

3/4"BAR

RUINS

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 - 027112_FN

PLOT DATE : 8/6/2019 8:00 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN : 100 FT_XREF

WISDOT/CADDS SHEET 42

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' LT

445'WB'+26
-182.00' LT

447'WB'+86
-140.68' LT

448'WB'+10
-136.41' LT

SNOWMOBILE TRAIL

WEYERS, ARNOLD J & MARY S

449'WB'+70
-106.80' LT

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'

R/W

447'EB'+88
96.86' RT

448'EB'+12
96.77' RT

449'EB'+00
97.00' RT

LEMKE, ALVIN H

WEYERS, ARNOLD J & MARY S

WEYERS, ARNOLD

BANKER, MARK L

LEMKE, ALVIN H JR

ERALD & ROSE

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 - 027113_FN

PLOT DATE : 8/6/2019 8:00 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN : 100 FT_XREF

WISDOT/CADDS SHEET 42

2

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

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

R/W

3/4"BAR

1"IP

RWGP

STH 15

SIGN

HOIER, REGINA

STILES, GARY & JANE

PLAT OF HOIER SURVEY

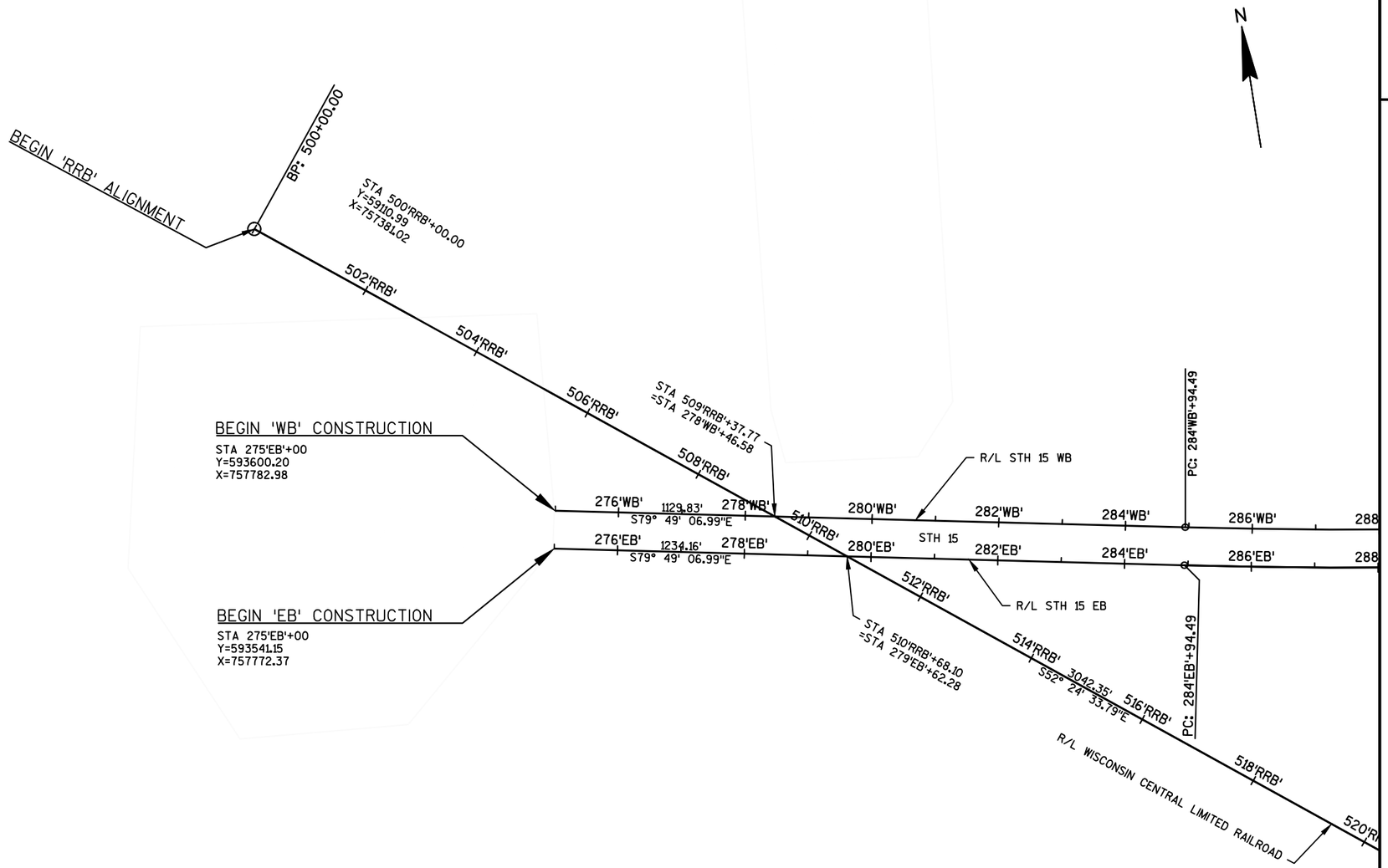
PULS, GAIL M
WALSVIK, PENNY A
BLINK, JENNIFER L

R/W

YOUNG, RUTH M

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

2



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

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_027201_AD.DWG
LAYOUT NAME - 027201-AD
PLOT DATE : 2/27/2017 3:11 PM PLOT BY : SPIELMACHER, JOHN P PLOT NAME :
PLOT SCALE : 1 IN:200 FT

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

STH 15

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'

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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_027201_AD.DWG
LAYOUT NAME - 027202-AD

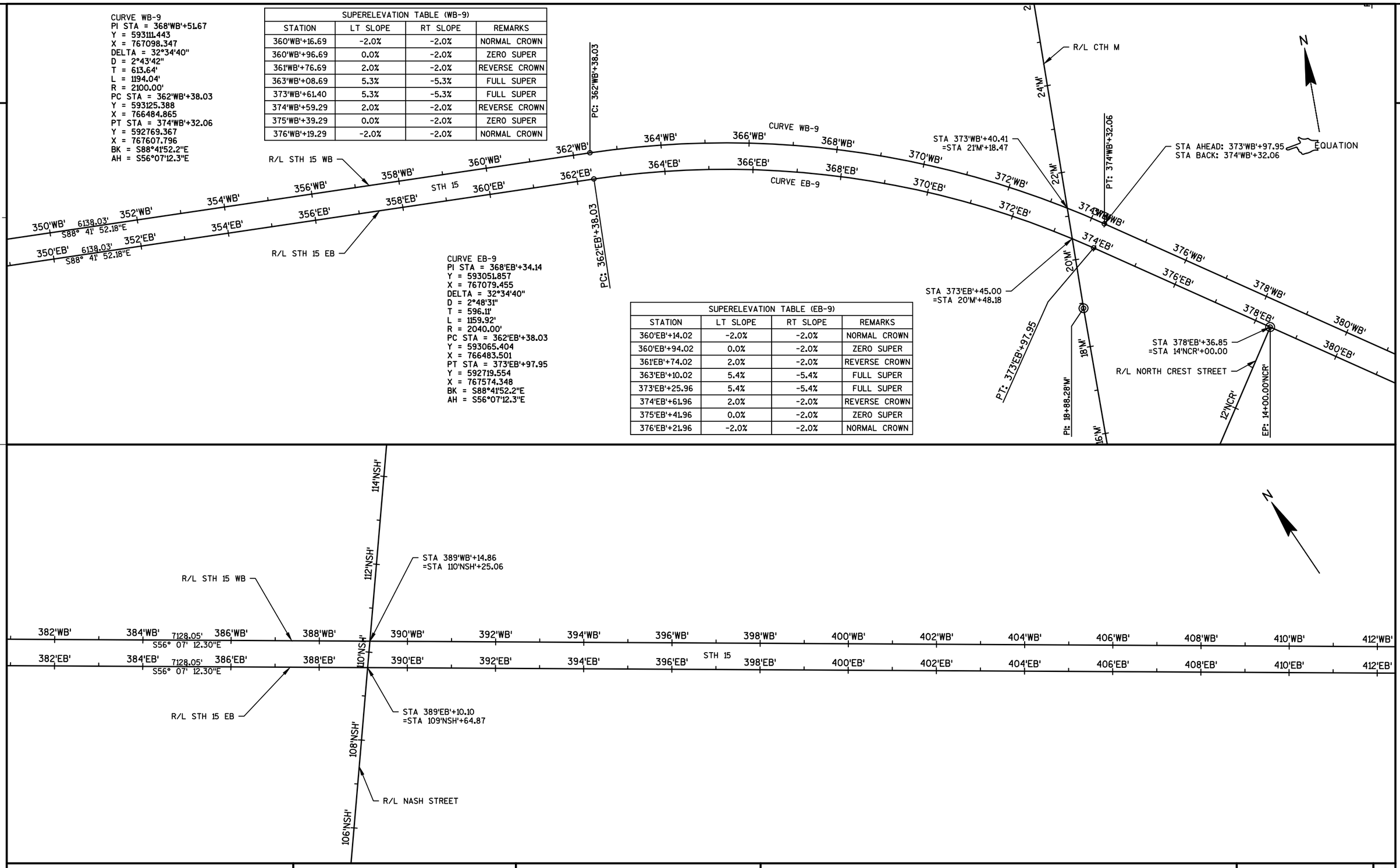
PLOT DATE : 2/27/2017 3:12 PM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1 IN:200 FT

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

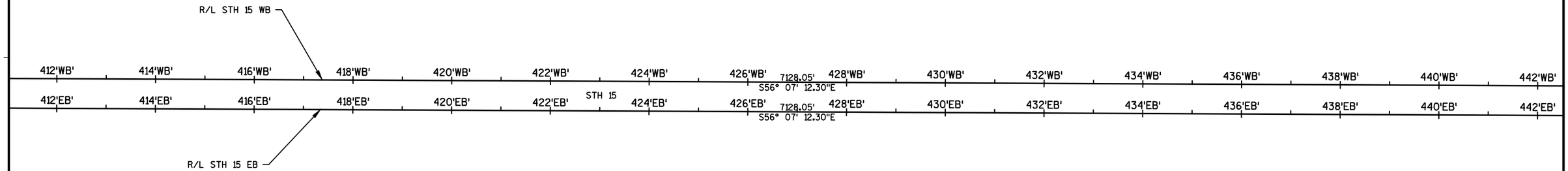
CURVE EB-9
PI STA = 368'EB'+34.14
Y = 593051.857
X = 767079.455
DELTA = 32°34'40"
D = 2°48'31"
T = 596.11'
L = 1159.92'
R = 2040.00'
PC STA = 362'EB'+38.03
Y = 593065.404
X = 766483.501
PT STA = 373'EB'+97.95
Y = 592719.554
X = 767574.348
BK = S88°41'52.2"E
AH = S56°07'12.3"E

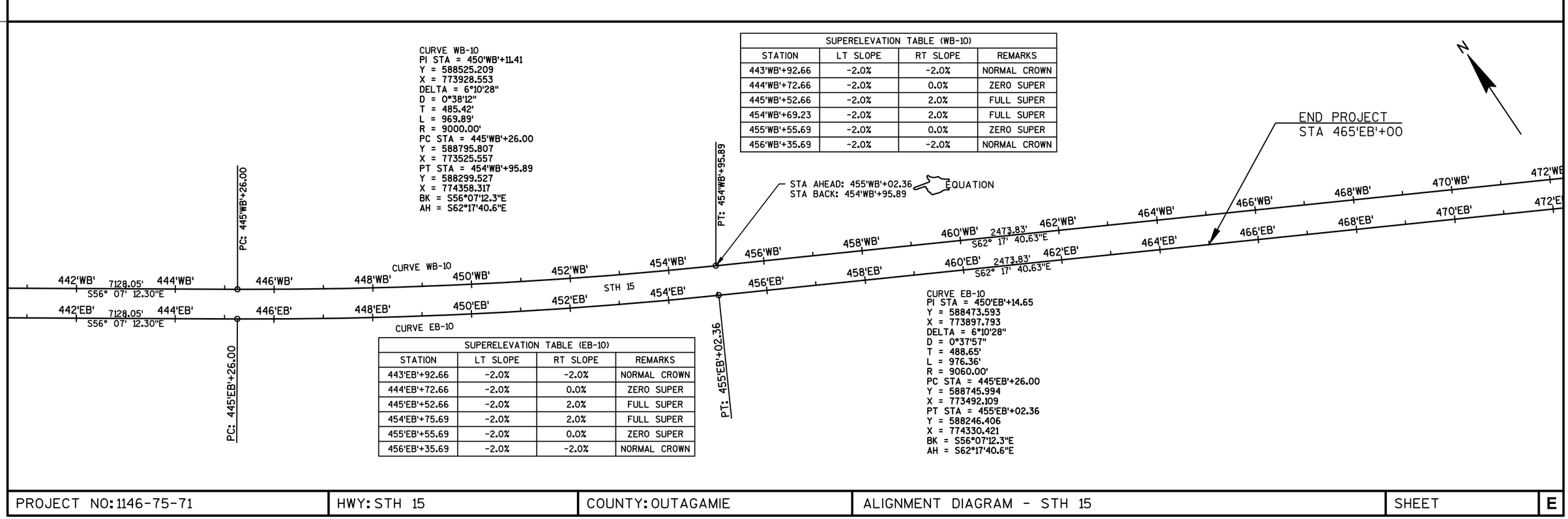
SUPERELEVATION TABLE (EB-9)			
STATION	LT SLOPE	RT SLOPE	REMARKS
360'EB'+14.02	-2.0%	-2.0%	NORMAL CROWN
360'EB'+94.02	0.0%	-2.0%	ZERO SUPER
361'EB'+74.02	2.0%	-2.0%	REVERSE CROWN
363'EB'+10.02	5.4%	-5.4%	FULL SUPER
373'EB'+25.96	5.4%	-5.4%	FULL SUPER
374'EB'+61.96	2.0%	-2.0%	REVERSE CROWN
375'EB'+41.96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

2





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

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

2

12'M' 14'M' 888.28' NO° 08' 13.18"W 16'M' CTH M N OLK STREET 18'M' 20'M' 22'M' 24'M' 1610.80' N38° 24' 52.09"E 26'M' 28'M' 30'M'

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'

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

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

R/L STH 15 EB

R/L STH 15 WB

STH 15

N37° 50' 08.56"E
31.64'

PI: 100+31.64'NSH'

R/L NASH STREET

102'NSH'

104'NSH'

106'NSH'

N38° 24' 52.09"E 1610.80'

108'NSH'

110'NSH'

112'NSH'

114'NSH'

116'NSH'

NASH STREET

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

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

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

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

S89° 39' 02.30"E 794.93'

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

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

PT: 25+51.61'MM'

N38° 25' 41.30"E 648.39'

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

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

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

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

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	
Total	1	

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	RT
24+14	CTH M	1	1	RT
	Total	2	2	

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	

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	

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	

213.0100
Finishing Roadway
(Project)

Project	Each	Remarks
1146-75-71	1	
Total	1	

3

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	

740.0440
Incentive Density
HMA Pavemement

Project	Dol	Remarks
1146-75-71	1,360	
Total	1,360	

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	

640.1305.S
Clay Cover

STA	to	STA	Location	CY	Remarks
441+00	--	441+50.	STH 15 WB	0	
441+50.	--	442+00.	STH 15 WB	97	
442+00.	--	442+50.	STH 15 WB	208	
442+50.	--	443+00.	STH 15 WB	215	
443+00.	--	443+50.	STH 15 WB	229	
443+50.	--	444+00.	STH 15 WB	255	
444+00.	--	444+50.	STH 15 WB	157	
444+50.		445+00.	STH 15 WB	28	
			Total	1189	

618.0100
Maintenance and Repair
Of Haul Roads

Project	Each	Remarks
1146-75-71	1	
Total	1	

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	

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

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				0	0			Driveway
335+00	--	--	STH 15 WB		20				0	0			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				0	0			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				0	0			Driveway
446+86	--	449+14	STH 15 EB + WB			284		387	3	1			Snowmobile Crossover
450+00	--	458+00	STH 15 EB + WB	6,806			20,741						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			0	0			Cul-de-sac
12+10	--	--	N. Crest		90				0	0			2 driveways
11+00	--	26+77	CTH MM			3,280			33	13			
15+27	--	--	CTH MM		78								2 driveways
25+69	--	--	CTH MM		19				0	0			Driveway
1+50	--	4+60	Black Otter Creek								151		
								Subtotal	921	369			
			Total	54,563	839	76,021	125,003	89,111	1,290		151	16,230	

*SEE STRUCTURES FOR ADDITIONAL QUANTITIES

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

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	

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	20
		Total													37	50	20

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	

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	

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					1	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						1	
290+40	32.3 RT	807.80	290+40	58.9 LT	796.50	2.05%	STH 15 WB		90															1	
297+22	108.8 RT	768.00	297+21	193.0 LT	767.70	0.10%	STH 15 EB										302							1	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							1	
299+70	32.1 RT	782.30	299+70	58.2 LT	780.49	2.00%	STH 15 WB		90															1	
301+97	67.0 RT	774.80	302+98	144.0 LT	769.20	2.39%	STH 15 EB				234													1	
305+00	31.0 RT	775.46	305+00	72.6 LT	770.90	4.44%	STH 15 WB		104															1	
309+00	45.1 RT	773.80	309+00	25.0 LT	772.68	1.60%	STH 15 EB																70	1	INVERT BURIED 6"
309+00	25.0 RT	772.59	309+00	53.3 LT	772.40	0.24%	STH 15 WB																78	1	INVERT BURIED 6"
315+00	30.7 RT	772.00	315+00	56.4 LT	770.50	1.72%	STH 15 WB								88									1	
319+78	29.3 LT	769.22	319+94	29.7 LT	769.14	0.50%	STH 15 EB		16															1	MEDIAN
319+93	95.1 LT	768.00	319+95	134.8 LT	767.00	2.52%	STH 15 WB													40				1	FE
319+99	89.9 LT	768.00	320+02	137.7 LT	767.00	2.09%	STH 15 WB													48				1	FE
320+01	46.8 RT	769.80	319+87	115.3 LT	768.40	0.86%	STH 15 EB									162								1	
320+07	46.3 RT	769.80	319+93	115.4 LT	768.40	0.86%	STH 15 EB									162								1	
328+00	30.0 RT	766.00	328+00	73.2 LT	761.70	4.17%	STH 15 WB		104															1	
333+54	73.7 RT	759.10	333+50	135.8 LT	758.40	0.33%	STH 15 EB				210													1	
333+60	73.7 RT	759.10	333+56	135.9 LT	758.40	0.33%	STH 15 EB				210													1	
334+63	84.9 LT	759.00	335+33	84.0 LT	759.50	0.72%	STH 15 WB			70														1	FE
338+35	29.3 RT	761.00	338+35	64.1 LT	759.90	1.18%	STH 15 WB		94															1	
346+00	30.0 RT	760.20	346+00	50.4 LT	760.10	0.12%	STH 15 WB								86									1	
346+72	61.2 LT	760.50	346+45	62.2 LT	760.00	1.88%	STH 15 WB			28														1	FE
346+75	60.4 RT	760.80	346+49	61.1 LT	760.30	1.96%	STH 15 EB			26														1	FE
347+15	30.0 RT	759.62	346+00	30.0 RT	759.62	0.00%	STH 15 WB								116									1	TO STA 346+00
352+00	30.0 RT	761.50	352+00	56.9 LT	760.60	1.03%	STH 15 WB								88									1	
359+00	30.0 RT	770.00	359+00	78.8 LT	763.40	6.06%	STH 15 WB		108															1	
359+90	76.8 RT	762.60	359+84	137.3 LT	762.20	0.19%	STH 15 EB							214										1	
366+00	29.7 RT	783.00	366+00	93.3 LT	773.60	7.71%	STH 15 WB		136															1	
374+30	31.3 RT	808.00	374+30	64.9 LT	807.04	1.00%	STH 15 WB		96															1	
384+00	22.2 RT	835.85	384+00	58.3 LT	833.00	3.54%	STH 15 WB		80															1	
390+00	37.9 RT	840.00	390+00	65.6 LT	838.97	1.00%	STH 15 WB								132									1	
392+28	177.4 LT	820.60	392+28	157.7 RT	804.80	4.72%	STH 15 EB											336						1	
394+45	193.6 RT	802.70	394+45	215.1 RT	801.70	4.67%	STH 15 EB			22														1	POND 394
398+00	30.5 RT	835.50	398+00	69.3 LT	833.10	2.40%	STH 15 WB		100															1	
401+69	106.5 RT	820.80	401+23	106.5 RT	820.20	1.29%	STH 15 EB	46																1	POND 402
402+00	117.5 LT	831.00	402+00	63.4 RT	828.92	1.16%	STH 15 EB					180												1	
403+79	30.4 LT	829.00	403+79	83.9 RT	827.90	5.25%	STH 15 EB		114															1	
410+50	30.5 LT	837.30	410+50	61.3 RT	836.30	1.09%	STH 15 EB								92									1	
425+00	30.0 LT	834.09	425+00	59.0 RT	830.90	1.12%	STH 15 EB								88									1	
430+72	151.7 LT	815.00	430+95	98.9 RT	813.20	0.72%	STH 15 EB						252											1	
432+00	30.0 LT	820.00	432+00	96.6 RT	815.10	3.87%	STH 15 EB		104															1	
434+32	59.8 LT	826.80	433+59	63.8 LT	825.30	2.05%	STH 15 WB			74														1	FE
440+00	19.3 LT	830.05	440+00	45.7 RT	829.80	0.38%	STH 15 EB		66															1	
447+67	58.5 LT	834.30	448+27	60.1 LT	834.30	0.00%	STH 15 WB			60														1	FE
448+60	31.1 RT	834.20	448+50	51.6 LT	834.10	0.12%	STH 15 WB																82	1	
453+29	132.4 LT	829.60	451+87	84.8 RT	826.90	1.04%	STH 15 EB														260			1	
457+00	30.0 LT	838.00	457+00	81.8 RT	835.00	2.68%	STH 15 EB		112															1	
465+00	30.0 LT	861.20	465+00	55.4 RT	860.90	0.35%	STH 15 EB								86									1	
							TOTAL	**46**	**1414**	**280**	**654**	**180**	**252**	**214**	**776**	**324**	**604**	**738**	**392**	**88**	**260**	**82**	**148**	**49**	

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
282+79	143.9 RT	784.17	283+91	231.7 LT	775.50	STH 15 EB						2							2	
288+52	146.2 RT	781.00	290+24	215.9 LT	772.80	STH 15 EB					2								2	
290+40	32.3 RT	807.80	290+40	58.9 LT	796.50	STH 15 WB		1											1	
297+22	108.8 RT	768.00	297+21	193.0 LT	767.70	STH 15 EB								2					2	
297+30	108.8 RT	768.00	297+30	193.0 LT	767.70	STH 15 EB								2					2	
299+70	32.1 RT	782.30	299+70	58.2 LT	780.49	STH 15 WB		1											1	
301+97	67.0 RT	774.80	302+98	144.0 LT	769.20	STH 15 EB				2									2	
305+00	31.0 RT	775.46	305+00	72.6 LT	770.90	STH 15 WB		1											1	
309+00	45.1 RT	773.80	309+00	25.0 LT	772.68	STH 15 EB											1		1	
309+00	25.0 RT	772.59	309+00	53.3 LT	772.40	STH 15 WB											1		1	
315+00	30.7 RT	772.00	315+00	56.4 LT	770.50	STH 15 WB		1											1	
319+78	29.3 LT	769.22	319+94	29.7 LT	769.14	STH 15 EB														
319+93	95.1 LT	768.00	319+95	134.8 LT	767.00	STH 15 WB										2				
319+99	89.9 LT	768.00	320+02	137.7 LT	767.00	STH 15 WB										2				
320+01	46.8 RT	769.80	319+87	115.3 LT	768.40	STH 15 EB				2									2	
320+07	46.3 RT	769.80	319+93	115.4 LT	768.40	STH 15 EB				2									2	
328+00	30.0 RT	766.00	328+00	73.2 LT	761.70	STH 15 WB		1											1	
333+54	73.7 RT	759.10	333+50	135.8 LT	758.40	STH 15 EB				2									2	
333+60	73.7 RT	759.10	333+56	135.9 LT	758.40	STH 15 EB				2									2	
334+63	84.9 LT	759.00	335+33	84.0 LT	759.50	STH 15 WB			2											
338+35	29.3 RT	761.00	338+35	64.1 LT	759.90	STH 15 WB		1											1	
346+00	30.0 RT	760.20	346+00	50.4 LT	760.10	STH 15 WB		1											1	
346+72	61.2 LT	760.50	346+45	62.2 LT	760.00	STH 15 WB			2											
346+75	60.4 RT	760.80	346+49	61.1 LT	760.30	STH 15 EB			2											
347+15	30.0 RT	759.62	346+00	30.0 RT	759.62	STH 15 WB														
352+00	30.0 RT	761.50	352+00	56.9 LT	760.60	STH 15 WB		1											1	
359+00	30.0 RT	770.00	359+00	78.8 LT	763.40	STH 15 WB		1											1	
359+90	76.8 RT	762.60	359+84	137.3 LT	762.20	STH 15 EB							2						2	
366+00	29.7 RT	783.00	366+00	93.3 LT	773.60	STH 15 WB		1											1	
374+30	31.3 RT	808.00	374+30	64.9 LT	807.04	STH 15 WB		1											1	1
384+00	22.2 RT	835.85	384+00	58.3 LT	833.00	STH 15 WB		1											1	
390+00	37.9 RT	840.00	390+00	65.6 LT	838.97	STH 15 WB		1											1	
392+28	177.4 LT	820.60	392+28	157.7 RT	804.80	STH 15 EB					2								2	2
394+45	193.6 RT	802.70	394+45	215.1 RT	801.70	STH 15 EB			1										1	1
398+00	30.5 RT	835.50	398+00	69.3 LT	833.10	STH 15 WB		1											1	1
401+69	106.5 RT	820.80	401+23	106.5 RT	820.20	STH 15 EB	2												2	2
402+00	117.5 LT	831.00	402+00	63.4 RT	828.92	STH 15 EB					2								2	2
403+79	30.4 LT	829.00	403+79	83.9 RT	827.90	STH 15 EB		1											1	1
410+50	30.5 LT	837.30	410+50	61.3 RT	836.30	STH 15 EB		1											1	
425+00	30.0 LT	832.00	425+00	59.0 RT	831.00	STH 15 EB		1											1	
430+72	151.7 LT	815.00	430+95	98.9 RT	813.20	STH 15 EB						2							2	
432+00	30.0 LT	820.00	432+00	96.6 RT	815.10	STH 15 EB		1											1	
434+32	59.8 LT	826.80	433+59	63.8 LT	825.30	STH 15 WB			2											
440+00	19.3 LT	830.05	440+00	45.7 RT	829.80	STH 15 EB		1											1	
447+67	58.5 LT	834.30	448+27	60.1 LT	834.30	STH 15 WB			2											
448+60	31.1 RT	834.20	448+50	51.6 LT	834.10	STH 15 WB									1				1	
453+29	132.4 LT	829.60	451+87	84.8 RT	826.90	STH 15 EB												2	2	
457+00	30.0 LT	838.00	457+00	81.8 RT	835.00	STH 15 EB		1											1	
465+00	30.0 LT	861.20	465+00	55.4 RT	860.90	STH 15 EB		1											1	1
						TOTAL	**2**	**21**	**11**	**10**	**6**	**4**	**2**	**4**	**1**	**4**	**2**	**2**	**55**	**11**

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

3

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.	522.0318 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
10+64	37.3 RT	778.15	10+64	29.2 LT	777.50	0.98%	CTH MM					66	1	
10+72	32.7 RT	778.15	10+72	26.2 LT	777.50	0.98%	CTH MM					60	1	
15+43	34.1 LT	792.75	15+09	24.0 LT	790.75	5.89%	CTH MM	34			60		1	
15+45	38.8 RT	794.50	15+03	35.7 RT	792.00	5.97%	CTH MM		42		60		1	
25+00	24.0 RT	828.33	25+00	24.0 LT	825.84	5.22%	CTH MM			40			1	PE
25+79	32.0 LT	825.80	25+59	33.6 LT	825.50	1.46%	CTH MM	20					1	
							TOTAL	**54**	**42**	**40**	**120**	**126**	**6**	

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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	522.2619 AEW FOR CPRC 19x30 -INCH EACH	522.2624 AEW FOR CPRC 24x38 -INCH EACH	633.5200 MARKERS CULVERT END EACH
10+64	37.3 RT	778.15	10+64	29.2 LT	777.50	CTH MM				2	2
10+72	32.7 RT	778.15	10+72	26.2 LT	777.50	CTH MM				2	2
15+43	34.1 LT	792.75	15+09	24.0 LT	790.75	CTH MM	2		2		4
15+45	38.8 RT	794.50	15+03	35.7 RT	792.00	CTH MM		2	2		4
25+00	24.0 RT	828.33	25+00	24.0 LT	825.84	CTH MM	2				2
25+79	32.0 LT	825.80	25+59	33.6 LT	825.50	CTH MM	2				
						TOTAL	**6**	**2**	**4**	**4**	**14**

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.

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**				

IO SLOPE INLET COVERS FOR 1G-MS
ILLING 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	523.0529 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	0.0142					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

MEDIAN INLET SUMMARY

STATION	OFFSET, FT	LOCATION	611.3901 INLET MEDIAN 1 GRATE EACH	611.3902 INLET MEDIAN 2 GRATE EACH	611.3903 INLET MEDIAN 3 GRATE EACH	611.3904 INLET MEDIAN 4 GRATE EACH	611.0642 INLET COVER* TYPE MS EACH	611.2005 MH 5-FT EACH	611.053 MH COVER TYPE J EACH	RIM/GRATE ELEVATION	DISCHARGE ELEVATION	STRUCTURE DEPTH, FT	REMARKS
290+40	32.3 RT	STH 15 WB	1				1			810.81	807.80	3.22	
299+70	32.1 RT	STH 15 WB	1				1			785.32	782.30	3.23	
305+00	31.0 RT	STH 15 WB	1				1			777.59	775.46	2.34	
315+00	30.7 RT	STH 15 WB	1				1			773.75	771.37	2.59	
319+78	29.3 LT	STH 15 EB	1				1			772.04	769.22	3.03	TO JUNCTION MH
319+94	29.7 LT	STH 15 EB						1	1	772.75	769.14	2.82	JUNCTION MH
328+00	30.0 RT	STH 15 WB	1				1			769.16	766.00	3.37	
333+52	30.5 RT	STH 15 WB		1			2			767.34	758.75	8.88	CROSS CULVERT
338+35	29.3 RT	STH 15 WB	1				1			765.25	761.00	4.46	
346+00	30.0 RT	STH 15 WB		1			2			762.10	760.20	2.69	0.58' SUMP
347+15	30.0 RT	STH 15 WB		1			2			762.08	759.62	2.67	TO STA 346+00
352+00	30.0 RT	STH 15 WB	1				1			764.00	761.50	2.71	
359+00	30.0 RT	STH 15 EB	1				1			772.27	770.00	2.48	
366+00	29.7 RT	STH 15 WB	1				1			786.11	783.00	3.32	
374+30	31.3 RT	STH 15 WB	1				1			810.56	808.00	2.77	
384+00	22.2 RT	STH 15 WB				1	4			837.75	835.85	2.09	
390+00	37.9 RT	STH 15 WB	1				1			843.00	840.00	3.19	
394+45	193.6 RT	STH 15 EB		1			2			805.50	802.70	3.05	POND 394**
398+00	30.5 RT	STH 15 WB	1				1			838.50	835.50	3.21	
403+79	30.4 LT	STH 15 EB		1			2			834.46	829.00	5.67	
410+50	30.5 LT	STH 15 EB	1				1			839.70	837.30	2.61	
425+00	30.0 LT	STH 15 EB	1				1			834.00	832.00	2.21	
432+00	30.0 LT	STH 15 EB		1			2			827.40	820.00	7.61	
440+00	19.3 LT	STH 15 EB				1	4			831.93	830.05	2.09	
448+60	31.1 RT	STH 15 WB		1			2			835.79	834.20	1.82	
457+00	30.0 LT	STH 15 EB	1				1			843.60	838.00	5.81	
465+00	30.0 LT	STH 15 EB	1				1			863.10	861.20	2.11	
		TOTAL	**17**	**7**	**0**	**2**	**39**	**1**	**1**				

* 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

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

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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.	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
315+00	--	--	STH 15 EB				12.9	
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	

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	644.1601.S Temporary Curb Ramp Each	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		4.00	
11+30	--	12+62	N. Crest		49.01	127.13	98.88				
			Total	3,565	656	934	1,154	15	13	4	

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

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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 Topsoul 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	462	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	0	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	
--	--	--	Borrow Pits	37,500	37,500	23.6		1,000			842	Estimated
--	--	--	Undistributed		41,957	26.4	744	2,179	3		1,911	
			Total	340,367	209,787	241	3,720	10,897	16	2,687	9,556	

Traffic Control Summary

Location	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)			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 highwa
password											
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		7		751		370		1,146			
Total		35		3,753		1,850		5,730		42	

* install 7 days prior to beginning of work

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

FILE NAME : N:\PDS\...\030200_mq.pptx PLOT DATE : June 14, 1911 PLOT BY : A.R.H. PLOT NAME : PLOT SCALE : 1:1

ALL ITEMS ARE CATEGORY 0010
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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	Remarks
275+00	--	281+02	STH 15 EB			864	864				48				
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				
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				
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				
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	

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

				Permenant Erosion Control						
				606.0200	606.0300*	628.2004	628.2023	628.2027	645.01200*	
				Riprap	Riprap	Erosion Mat Class I	Erosion Mat Class II	Erosion Mat Class II	Geotextile Fabric	
				Medium	Heavy	Type B	Type B	Type C	Type HR	
Station	to	Station	Location	CY	CY	SY	SY	SY	SY	Remarks
273+50	--	281+02	STH 15 EB			5,150				
273+50	--	279+87	STH 15 WB			711	590			
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		312	1,506		2,687	624	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			4,593				
377+87	--	388+69	STH 15 WB			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			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	45	78	42,934	148		361	
			Total	223	390	214,668	738	2687	1807	

*SEE STRUCTURES FOR ADDITIONAL QUANTITIES

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

Mobilizations Summary

Project	619.1000 Mobilization Each	628.1905 Mobilizations Erosion Control Each	628.1910 Mobilizations Emergency Erosion Control Each	Remarks
1146-75-71	1	20	15	
Total	1	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 Limit
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	

Fencing Summary

Station	to	Station	Location	616.0100 Wire Woven Fence 4-FT L.F.	616.0120.S Fencing Small Animals L.F.	644.1616.S Temporary Pedestrian Safety Fence L.F.	SPV.0090 Fence Chain Link 5-FT Special 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				
389+61	--	465+00	STH 15 WB	8,002				
107+75.	--	112+13.	Nash			876		LT,RT
			Total	31,400	9,837	876	6,294	

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	

Concrete Barrier Summary

Station	to	Station	Location	603.8000 Concrete Barrier Temporary Precast Delivered LF	603.8125 Concrete Barrier Temporary Precast Installed LF	Remarks
18+62.8	--	28+55.19	CTH M	1,526	1,526	Along CL; flare to shoulders
			Total	1,526	1,526	

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	

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

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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	39,070	0	39,070	0	25,373	59,473	-20,403	59,473	
CTH M	18+62.78/28+55.18	1,229	0	1,229	0	0	400	829	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	21,530	0	323,043	448,006	323,043	
	Totals, CY	788,386	21,670	788,386	115,711	25,553	1,234,486	-308,719	1,234,486	
	Grand Total, CY	810,056								

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.

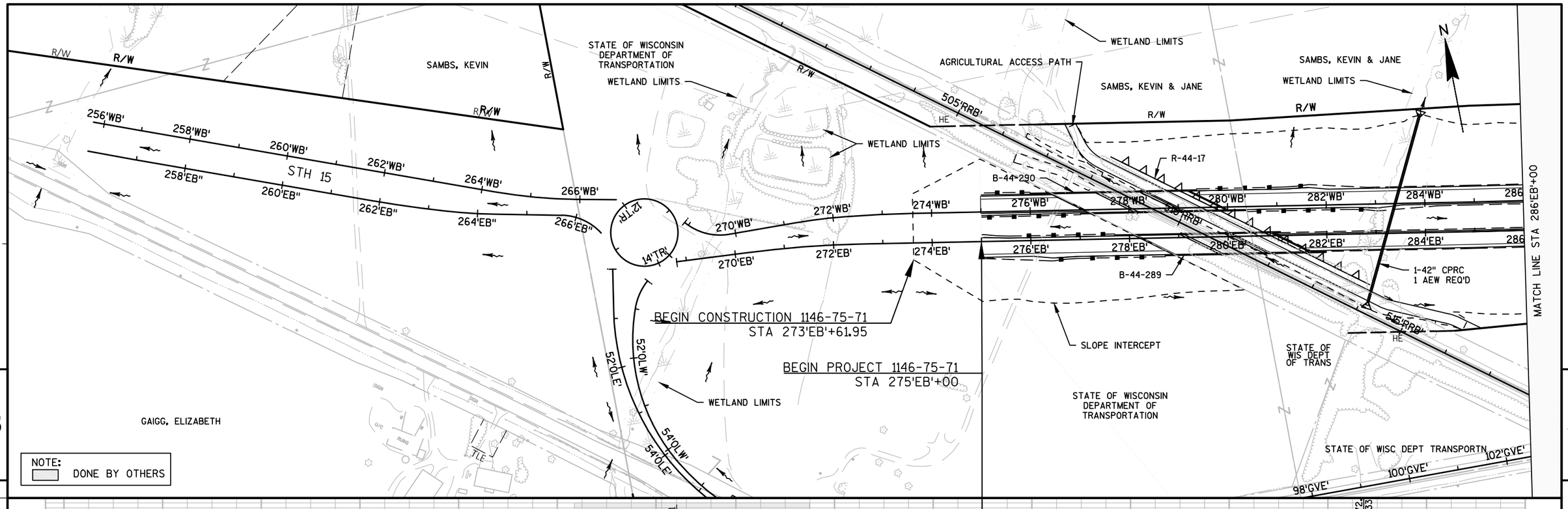
(4) Roadway Embankment does not include material used to fill Marsh Excavation

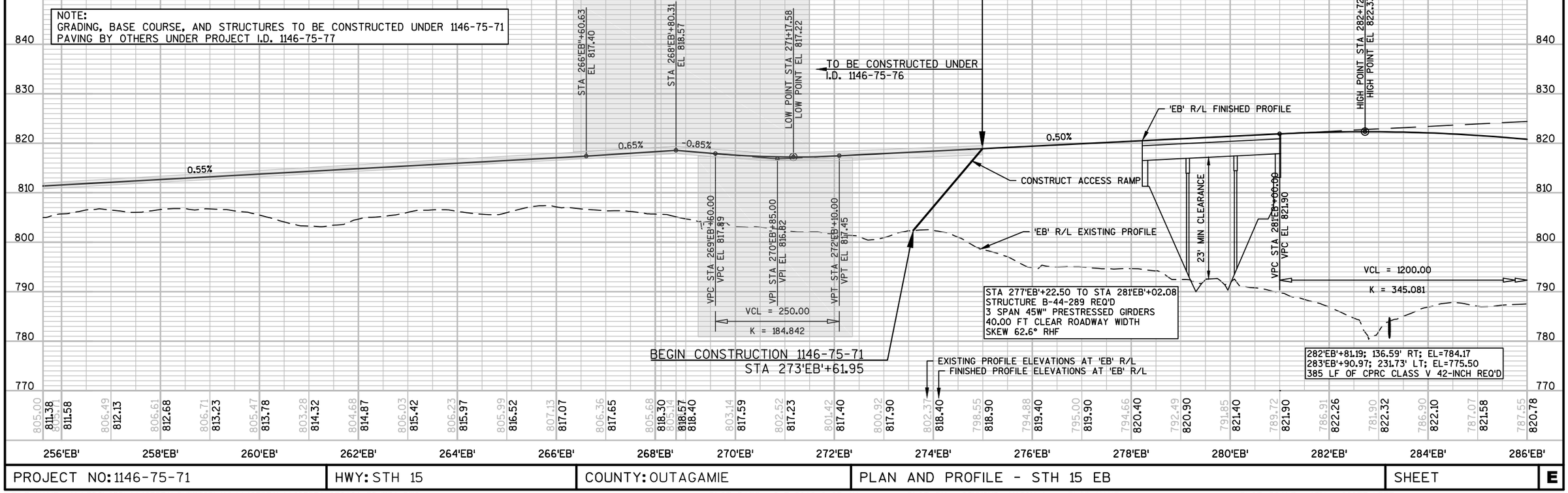
(5) Available Material = Cut - Salvaged/Unusuable Pavement Material

(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.





PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 EB	SHEET	E

EXIST. DRAIN TILE OUTFALL (AT STREAM)
6" DIA. CONC. 761.20

SAMBS, KEVIN & JANE

WETLAND LIMITS

POND OVERFLOW

PARTIKA, PAUL RICHARD

PARTIKA, IRVING J & GENEVRA

ECO PASSAGE STRUCTURE
SEE CONSTRUCTION DETAILS

PARTIKA ACCESS PATH

TLE TLE

R/W

MATCHLINE 286'EB'+00

MATCH LINE STA 316'EB'+00

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

'EB' 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

STH 15

8' MIN. (TYP.)

SLOPE INTERCEPT
(TYP.)

1-36" CPRC
2 AEW REQ'D

SAMBS, KEVIN & JANE

2-60" CPRC
4 AEW REQ'D

6" PIPE UNDERDRAIN OUTFALL
INV. 770.00

1-30" CPRC
2 AEW REQ'D

EXIST. DRAIN TILE OUTFALL
4" DIA. PVC
INV. 776.82

RECONNECT 6" PIPE UNDERDRAIN
FIELD VERIFY DIA. AND INV.

1-29"X45" CPRCHE
2 AEW REQ'D

PARTIKA, IRVING J & GENEVRA

GIVENS RD

520'RRB'

SAMBS, KEVIN

EXIST. DRAIN TILE
6" DIA. CONC.
INV. 775.73

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NOTE:
GRADING, BASE COURSE, AND STRUCTURES TO BE CONSTRUCTED UNDER 1146-75-71
PAVING BY OTHERS UNDER PROJECT I.D. 1146-75-77

VCL = 1000.00
K = 381.233

'EB' R/L FINISHED PROFILE

VPI STA 287'EB'+00.00
VPI EL 824.900

VPT STA 293'EB'+00.00
VPT EL 807.04

VPC STA 296'EB'+50.00
VPC EL 796.61

VPI STA 301'EB'+50.00
VPI EL 781.73

VPT STA 306'EB'+50.00
VPT EL 779.96

-2.98%

288'EB'+51.69; 146.17' RT; EL=781.00
290'EB'+26.22; 215.94' LT; EL=772.80
402 LF OF CPRC CLASS V 36-INCH REQ'D

309'EB'+00.00; 45.11' RT; EL=773.80
309'EB'+00.00; 25.00' LT; EL=772.68
70 LF OF CPRCHE CLASS HE-IV 29x45-INCH REQ'D

'EB' R/L EXISTING PROFILE

VCL = 1200.00
K = 345.081

297'EB'+21.61; 108.84' RT; EL=768.00
297'EB'+21.38; 193.07' LT; EL=767.70
302 LF OF CPRC CLASS IV 60-INCH REQ'D

297'EB'+29.53; 108.82' RT; EL=768.00
297'EB'+29.50; 193.09' LT; EL=767.70
302 LF OF CPRC CLASS IV 60-INCH REQ'D

301'EB'+96.71; 67.01' RT; EL=774.80
302'EB'+97.61; 143.96' LT; EL=769.20
234 LF OF CPRC CLASS III 30-INCH REQ'D

EXISTING PROFILE ELEVATIONS AT 'EB' R/L
FINISHED PROFILE ELEVATIONS AT 'EB' R/L

286'EB'	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'
787.55	786.91	785.56	781.10	779.56	784.74	782.80	781.56	780.84	780.22	777.43	764.34	777.11	778.46	777.82	776.32	773.46	773.68	774.27	774.18	774.10	773.71	773.98	773.83	773.91	774.51	774.37	774.59	774.40	774.83	774.72
820.78	819.68	818.30	816.63	814.66	812.41	809.87	807.04	804.06	801.08	798.10	795.16	792.44	789.99	787.80	785.87	784.21	782.80	781.66	780.78	780.17	779.78	779.42	779.07	778.71	778.36	778.01	777.65	777.30	776.94	776.59

830	820	810	800	790	780	770	760

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 - 050102-PP(EB)
PLOT DATE : 8/7/2019 8:24 AM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1IN : 200FT_XREF

MATCH LINE STA 316'EB'+00

MATCH LINE STA 346'EB'+00

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N

PARTIKA, IRVING J & GENEVRA

SYKES, JAMES I & MARIANN D

PARKER, DON E & MARGARET E

R/W

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'

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'

TLE

B-44-296

B-44-295

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

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

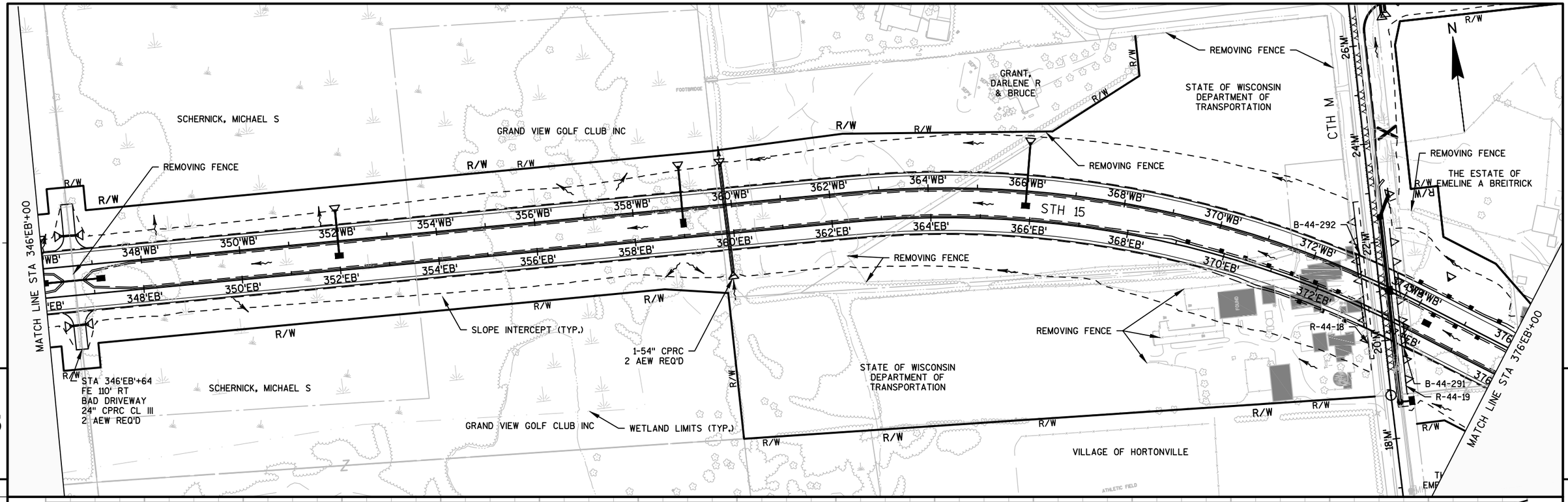
800 790 780 770 760 750 740 730

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 : 8/7/2019 8:25 AM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1IN : 200FT_XREF



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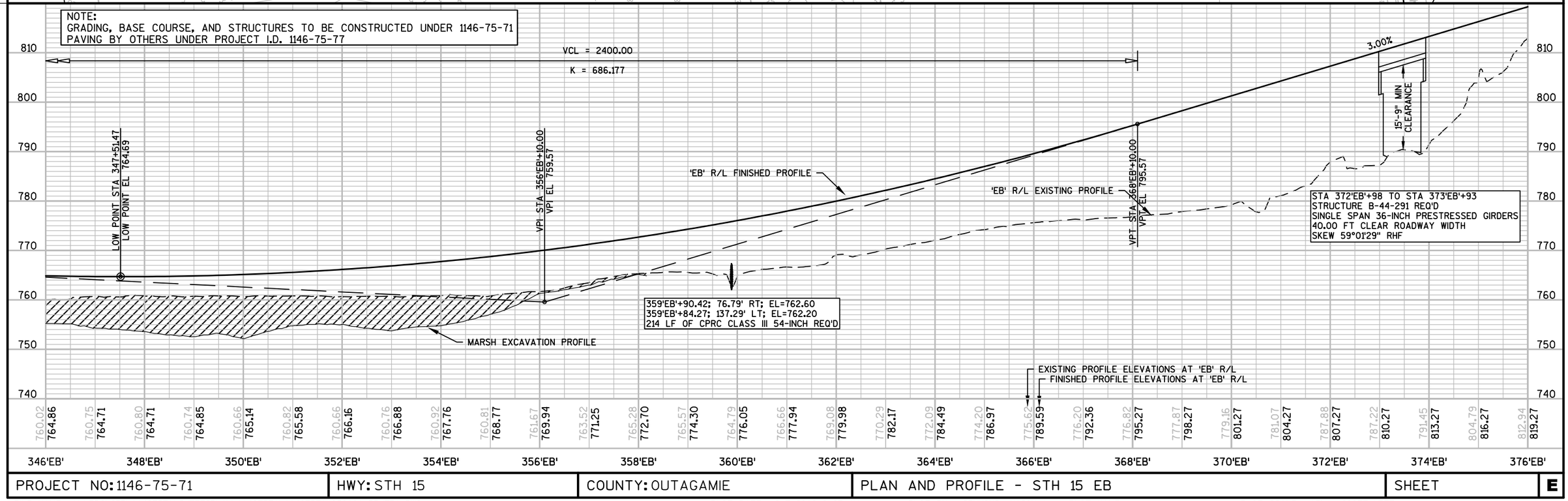

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 EB	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_050101_PP (EB).DWG
LAYOUT NAME - 050104-PP (EB)
PLOT DATE : 8/7/2019 8:27 AM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1IN : 200FT_XREF

MATCH LINE STA 376'EB'+00

MATCH LINE STA 406'EB'+00

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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 A

NASH HILLS LLC

DODD, DARIN & MICHEL

PROPOSED POND '387 LT'

B-44-294

112'NSH'

BREITRICK, MARK TLE

SARGENT, NICHOLAS T

BOIEN, RONALD & GERALDINE

STH 15

114'NSH'

108'NSH'

106'NSH'

NASH ST

N. CREST ST

12'INCR'

REMOVING FENCE

1-36" CPRC
2 AEW REQ'D

SLOPE INTERCEPT (TYP.)

PROPOSED POND '387 RT'

R-44-20

R-44-21
B-44-293

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
I INL MEDIAN 2G REQ'D
1 AEW REQ'D

RIEHL, THOMAS R

POLACEK, ANTON & BRENDA SUE

FINK, KEITH A

BAKER, MARTIN M & JANICE M

JUSTMANN, DAVID A & LINDA D

CLOSE, KENNETH L & DONNA J

HORTONVILLE SCHOOL DISTRICT

HOEWISCH, WALMER/MAX REV

TESSEN,

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

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

VPC STA 378'EB'+00.00
VPC EL 825.27

VPI STA 388'EB'+00.00
VPI EL 855.270

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%

16'-10" MIN CLEARANCE

HIGH POINT STA 392+07.65
HIGH POINT EL 846.38

LOW POINT STA 403+65.17
LOW POINT EL 838.76

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

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'
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

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 - 050105-PP(EB)

PLOT DATE : 8/7/2019 8:28 AM PLOT BY : SIMMONS, MASON A PLOT NAME :

PLOT SCALE : 1IN : 200FT_XREF

MATCH LINE STA 406'EB'+00

MATCH LINE STA 436'EB'+00

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5

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

R/W

TLE

REMOVING FENCE

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

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

VILLAGE OF HORTONVILLE

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

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

VCL = 1000.00
K = 517.057

VPC STA 428'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

'EB' R/L FINISHED PROFILE

1.19%

-1.30%

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 847.45

EXISTING PROFILE ELEVATIONS AT 'EB' R/L
FINISHED PROFILE ELEVATIONS AT 'EB' R/L

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

LANDFILL EXCAVATION PROFILE

880 870 860 850 840 830 820 810

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'	436'EB'
837.66	839.44	839.73	840.14	838.54	841.08	841.42	842.24	847.44	843.43	854.18	844.61	858.18	845.61	861.91	846.36	863.72	846.86	869.17	847.12	872.03	847.12	876.96	846.88	877.06	846.39	875.13	845.64	872.12	844.65	872.33	843.42	872.46	842.12	872.95	840.82	870.72	839.52	864.09	838.21	852.44	836.91	835.99	835.61	827.70	834.43	822.76	833.44	817.88	832.64	815.99	832.04	819.89	831.63	828.31	831.41	832.77	831.39	832.36	831.56	835.51	831.93

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 - 050106-PP (EB)

PLOT DATE : 8/7/2019 8:29 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1IN : 200FT_XREF

GE OF HORTONVILLE

WEYERS, ARNOLD J & MARY S

WEYERS, ARNOLD J & MARY S

SNOWMOBILE TRAIL CROSSING

JOSSART, JOAN M SURVIVORS TRST

YOUNG, RUTH M

WEYERS, ARNOLD J & MARY S

MATCH LINE STA 436'EB'+00

MATCH LINE STA 465'EB'+00

436'WB' 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'

436'EB' 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

R/W

1-18" CPRC
1 INL MEDIAN 4G REQ'D
1 AEW REQ'D

SLOPE INTERCEPT (TYP.)

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

WEYERS, ARNOLD

LEMKE, ALVIN H JR

JOSSART, JOAN M SURVIVORS TRST

BY OTHERS

TLE

GERALD & ROSE

ZIEGLER, MICHAEL W & JOAN A

BANKER, MARK L

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

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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'+88.60
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

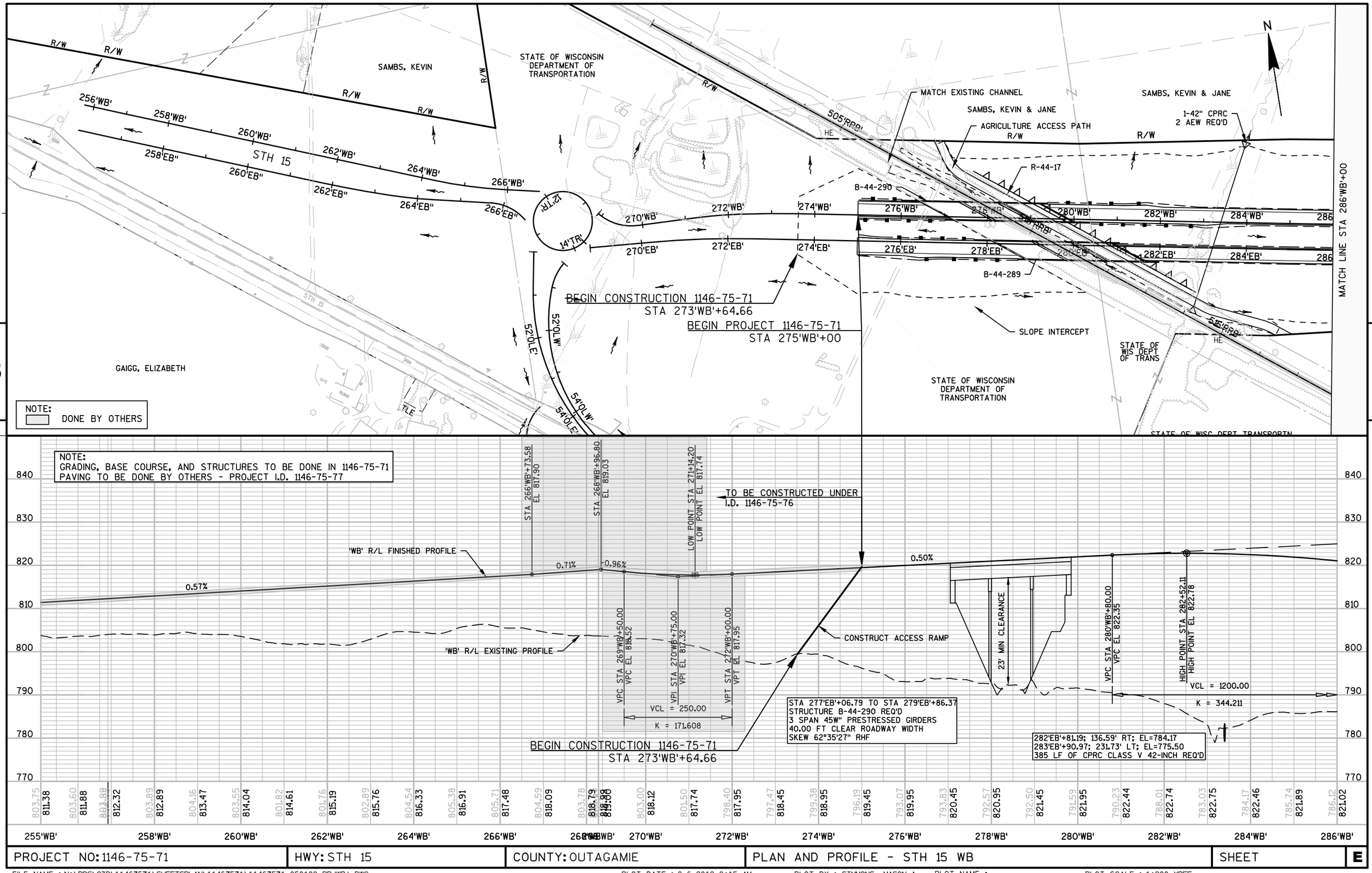
453'EB'+29.08; 132.44' LT; EL=829.60
451'EB'+86.51; 84.84' RT; EL=826.90
260 LF OF CPRCHE CLASS HE-III 48x76-INCH REQ'D

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

| | | |

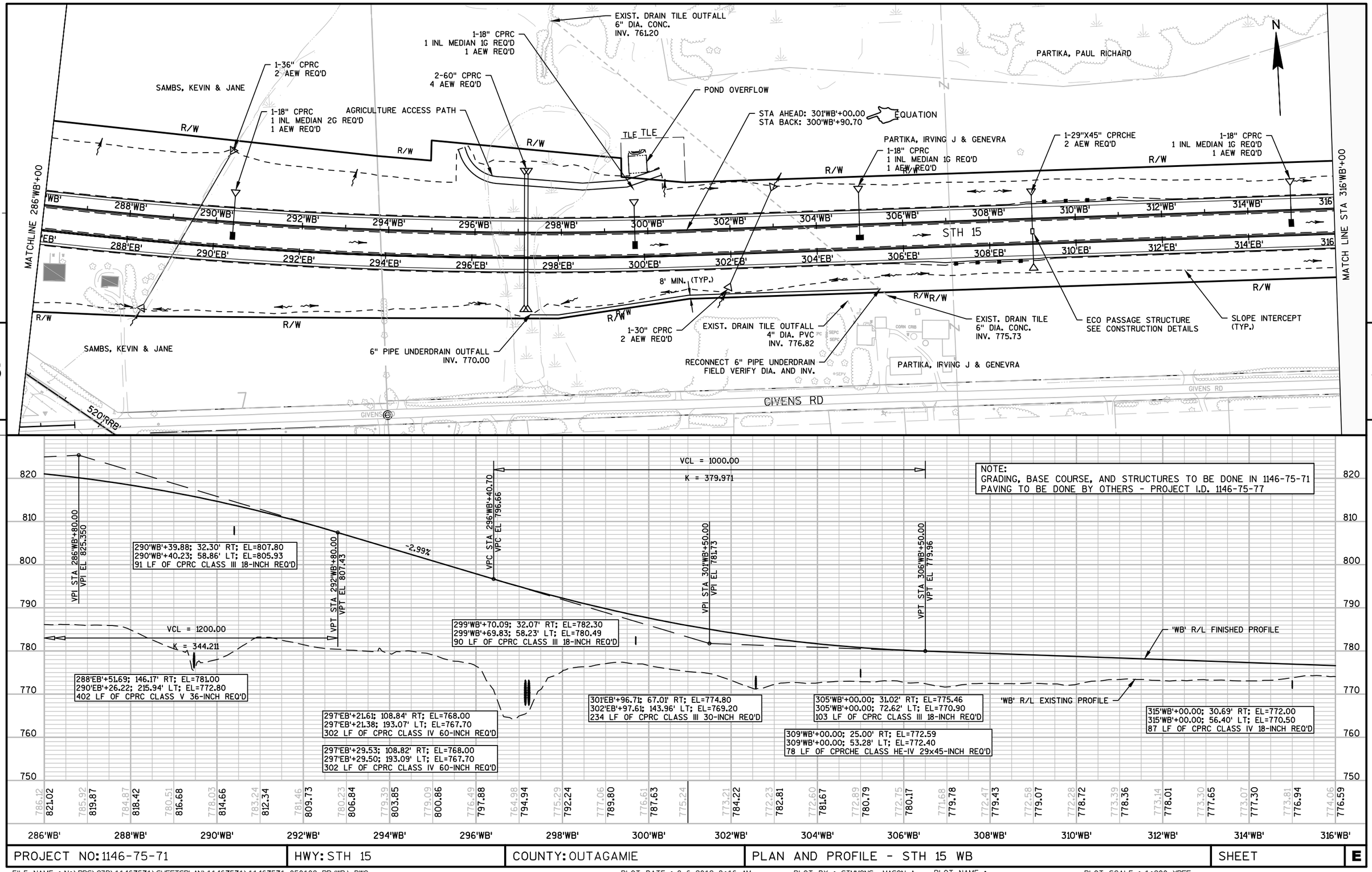


NOTE:
GRADING, BASE COURSE, AND STRUCTURES TO BE DONE IN 1146-75-71
PAVING TO BE DONE BY OTHERS - PROJECT I.D. 1146-75-77

803.75	803.60	803.88	803.89	804.16	803.55	801.82	801.76	802.89	804.54	805.38	805.71	804.59	803.78	803.00	801.50	798.40	797.47	799.38	796.19	793.07	793.83	792.57	792.50	791.59	790.23	788.01	783.03	784.17	785.74	786.12
811.38	811.88	812.32	812.89	813.47	814.04	814.61	815.19	815.76	816.33	816.91	817.48	818.09	818.79	818.12	817.74	817.95	818.45	818.95	819.45	819.95	820.45	820.95	821.45	821.95	822.44	822.74	822.75	822.46	821.89	821.02
255'WB'			258'WB'		260'WB'		262'WB'		264'WB'		266'WB'				270'WB'		272'WB'		274'WB'		276'WB'		278'WB'		280'WB'		282'WB'		284'WB'		286'WB'

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_050108_PP(WB).DWG
LAYOUT NAME - 050108-PP(WB)
PLOT DATE : 8/6/2019 8:15 AM
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 WB	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_050108_PP(WB).DWG
LAYOUT NAME - 050109-PP(WB)

PLOT DATE : 8/6/2019 8:16 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:200_XREF

MATCHLINE 316'WB'+00

MATCH LINE STA 346'WB'+00

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N

2-24"x38" CPRCHE
4 AEW REQ'D

PARTIKA, IRVING J & GENEVRA

STA 320'WB'+29
FE 156' LT
BAD DRIVEWAY

SLOPE INTERCEPT

SYKES, JAMES I & MARIANN D

1-18" CPRC
1 INL MEDIAN 1G REQ'D
1 AEW REQ'D

STA 335'WB'+00
FE 165' LT
BAD DRIVEWAY

TLE

1-24" CPRC CL III
R/W AEW REQ'D

PARKER, DON E & MARGARET E

1-18" CPRC
1 INL MEDIAN 1G REQ'D
1 AEW REQ'D

B-44-296

1-18" CPRC
1 INL MEDIAN 2G REQ'D
1 AEW REQ'D

R/W

316'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

STH 15

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

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

PARTIKA, IRVING J & GENEVRA

SYKES, JAMES I & MARIANN D

2-30" CPRC
1 INL MEDIAN 2G REQ'D
4 AEW REQ'D

REMOVING OLD STRUCTURE OVER WATERWAY
WITH MINIMAL DEBRIS STA. 339+40

B-44-295

BLACK OTTER CREEK

PROPOSED CREEK
REALIGNMENT

PARKER, DON E & MARGARET E

GIVENS RD

PARKER, DON E & MARGARET E

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 = 500.00
K = 3507.426

VCL = 2300.00
K = 682.701

VPC STA 334'WB'+00.00
VPC EL 770.21

VPI STA 336'WB'+50.00
VPI EL 769.324

VPT STA 339'WB'+00.00
VPT EL 768.08

VPC STA 344'WB'+10.00
VPC EL 765.55

800 790 780 770 760 750 740 730

EXISTING 24" CPCM
TO BE REMOVED

-0.35%

'WB' R/L FINISHED PROFILE

'WB' R/L EXISTING PROFILE

-0.50%

328'WB'+00.00; 30.00' RT; EL=766.00
328'WB'+00.00; 73.15' LT; EL=761.70
103 LF OF CPRC CLASS III 18-INCH REQ'D

338'WB'+35.00; 29.27' RT; EL=761.00
338'WB'+35.00; 64.12' LT; EL=759.90
93 LF OF CPRC CLASS III 18-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

333'WB'+53.63; 73.76' RT; EL=759.10
333'WB'+49.89; 135.79' LT; EL=758.40
210 LF OF CPRC CLASS III 30-INCH REQ'D

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

MARSH EXCAVATION PROFILE

STA 339'EB'+04 TO STA 340'EB'+46
STRUCTURE B-44-296 REQ'D
HAUNCHED CONCRETE SPAN
40.00 FT CLEAR ROADWAY WIDTH
SKEW 5° RHF

346'WB'+00.00; 30.03' RT; EL=760.20
346'WB'+00.00; 50.36' LT; EL=760.10
80 LF OF CPRC CLASS IV 18-INCH REQ'D

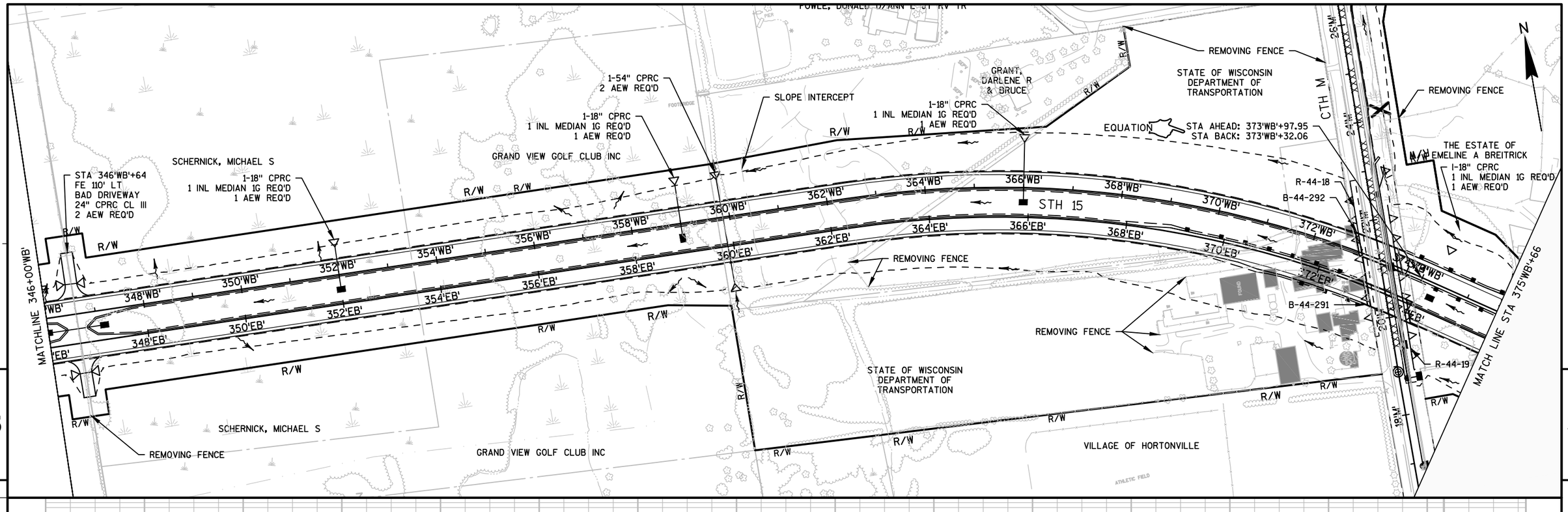
774.06 776.59 771.93 776.24 771.89 775.88 772.40 775.53 771.50 775.17 772.29 774.82 771.01 774.46 771.21 774.11 771.55 773.75 771.05 773.40 769.79 773.05 763.44 772.69 765.52 772.34 763.87 771.98 763.00 771.63 762.58 771.27 759.30 770.92 759.34 770.56 759.35 770.21 759.13 769.84 759.11 769.44 759.31 769.02 759.89 768.56 760.17 768.08 760.00 767.58 759.05 767.09 758.64 766.59 758.57 766.09 758.75 765.60 759.16 765.16 760.21 764.87

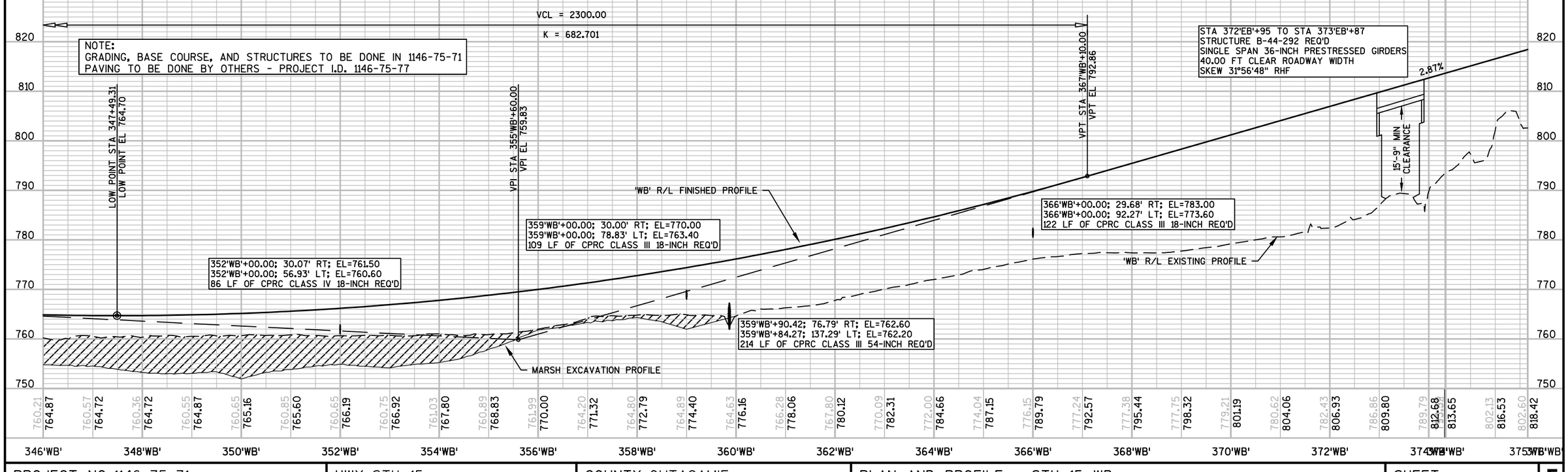
316'WB' 318'WB' 320'WB' 322'WB' 324'WB' 326'WB' 328'WB' 330'WB' 332'WB' 334'WB' 336'WB' 338'WB' 340'WB' 342'WB' 344'WB' 346'WB'

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET	E

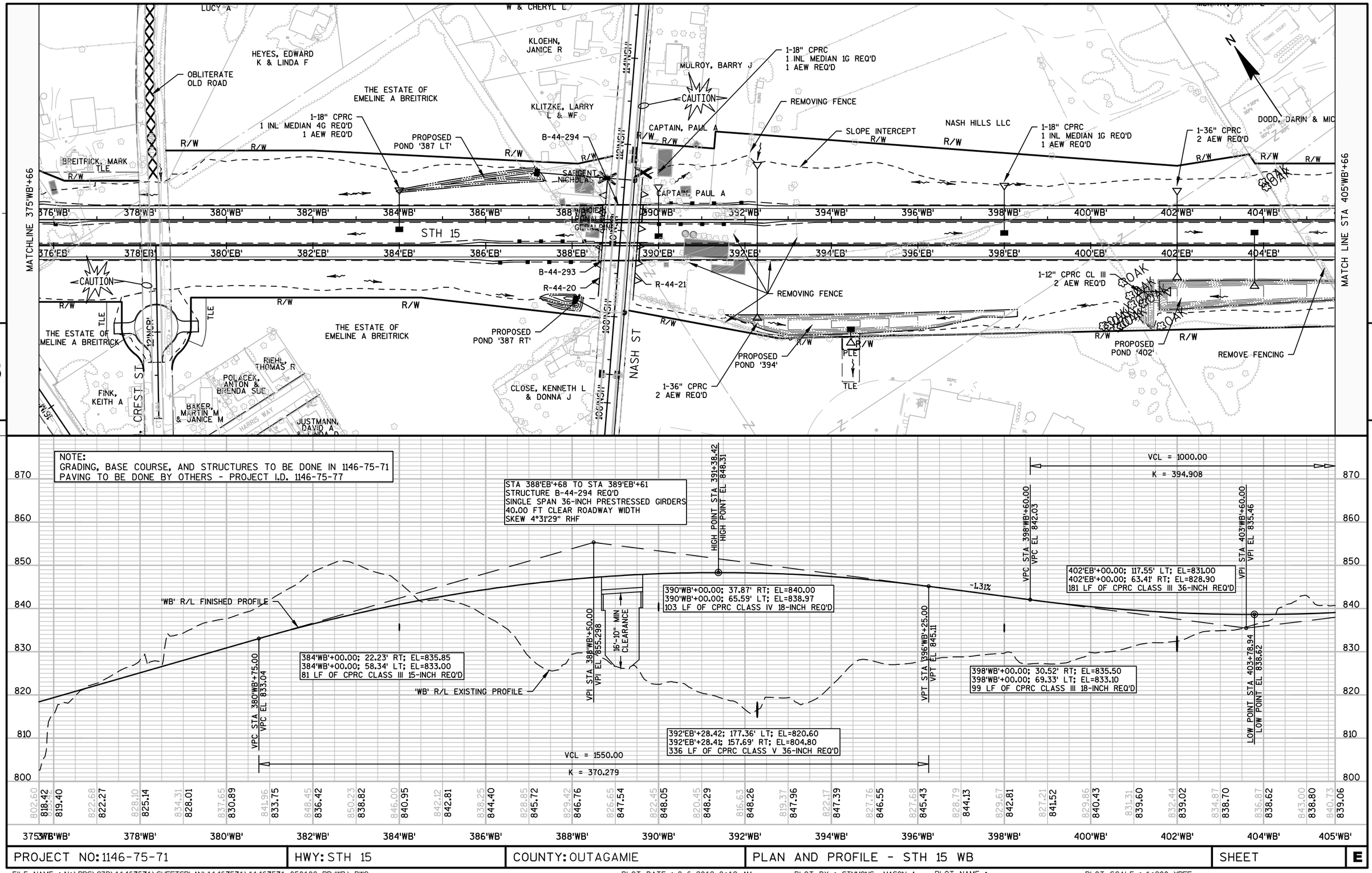
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_050108_PP(WB).DWG
LAYOUT NAME - 050110-PP(WB)

PLOT DATE : 8/6/2019 8:17 AM 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 WB	SHEET	E



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

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET	E

MATCHLINE 405'WB'+66

MATCH LINE STA 435'WB'+66

5

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HELLE

MURPHY, MARY L

STATE OF WISCONSIN
DEPARTMENT OF
TRANSPORTATION

MURPHY, MICHAEL J & MARY L

R/W

SLOPE INTERCEPT
(TYP.)

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

TLE

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

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

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

LANDFILL
EXCAVATION PROFILE

880 870 860 850 840 830 820 810

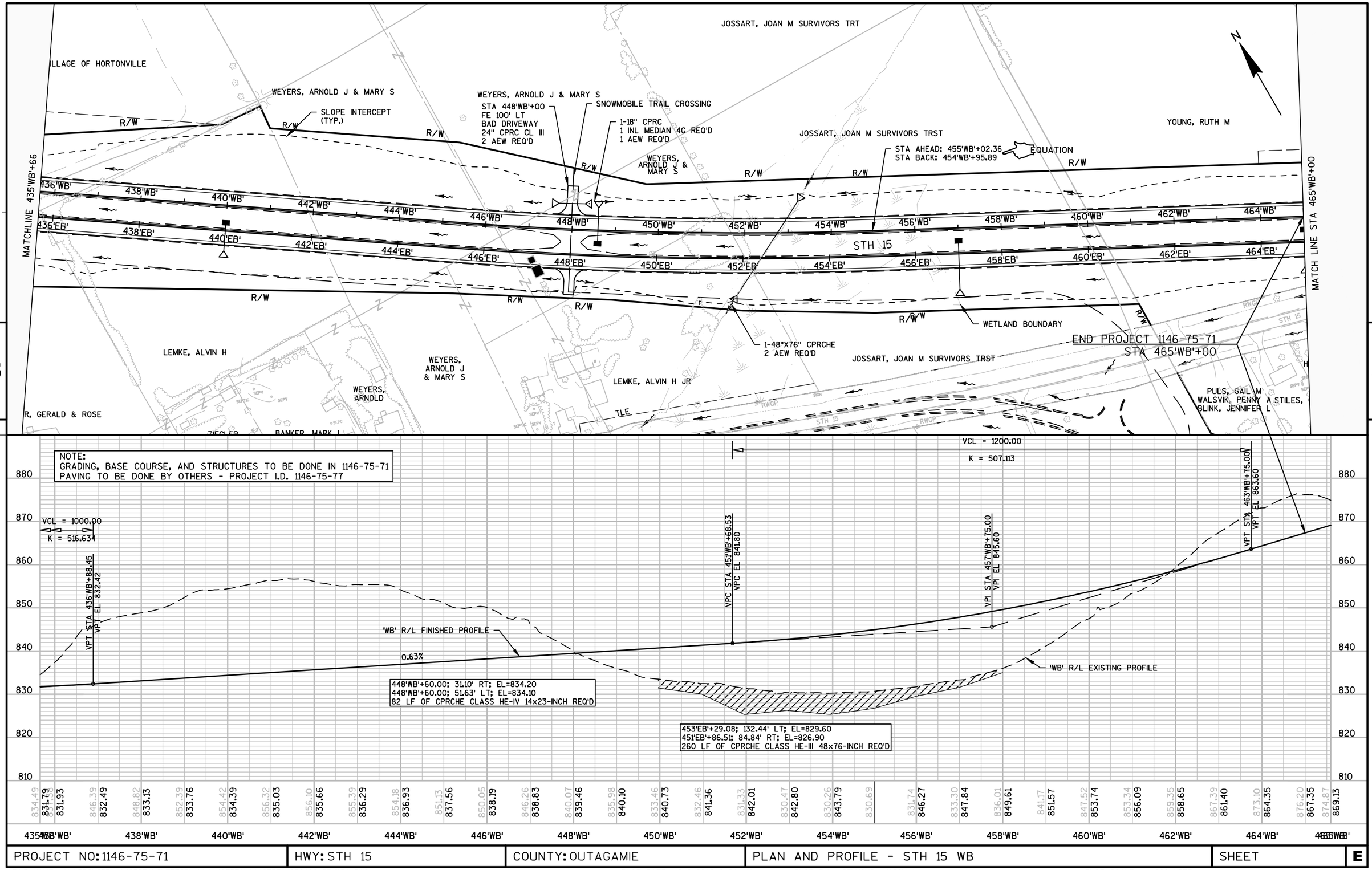
840.73 839.06 839.24 844.45 839.92 841.42 840.86 842.08 842.03 847.59 843.25 854.41 844.46 860.83 845.49 865.19 846.27 868.00 846.79 871.82 847.07 875.62 847.09 880.00 846.86 883.52 846.37 878.13 845.64 876.54 844.65 877.47 843.42 876.99 842.12 876.54 840.82 874.80 839.52 866.74 838.21 853.40 836.91 837.37 835.61 828.05 834.43 822.94 833.44 818.01 832.64 816.32 832.04 821.15 831.63 831.64 831.42 834.02 831.40 833.87 831.57 834.49 831.79

405'WB' 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' 435'WB'

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	PLAN AND PROFILE - STH 15 WB	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_050108_PP(WB).DWG
LAYOUT NAME - 050113-PP(WB)

PLOT DATE : 8/6/2019 8:20 AM 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 WB	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_050108_PP(WB).DWG
LAYOUT NAME - 050114-PP(WB)
PLOT DATE : 8/6/2019 8:21 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:200_XREF
WISDOT/CADDS SHEET 44

FINK, KEITH A

TESSEN, JAMES L & WF

BAKER, MARTIN M & JANICE M

STA 12'NCR'+10
FE 100' LT
B.A.D. DRIVEWAY

STA 12'NCR'+10
FE 95' RT
B.A.D. DRIVEWAY

TLE

R/W

RIP RAP MEDIUM
SEE EROSION CONTROL DETAILS

10'

25'

25' (TYP.)

R50'

R52' (TYP.)

CAUTION

SEE CONSTRUCTION DETAILS
FOR SWALE CONTOURS

N. CREST ST.

11'NCR'

12'NCR'

13'NCR'

STA 12'NCR'+12.07
2.14' LT

REMOVE SMALL
CULVERT PIPE

SLOPE INTERCEPT (TYP.)

OBLITERATE
OLD ROAD

1-174

STH 15 EB

STH 15 WB

378'EB'

378'WB'

INL

MH

ZIP

KRENKE RD

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

3.25%

3.28%

3.96%

'NCR' R/L
EXISTING PROFILE

'NCR' R/L
FINISHED 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_050401_PP (N CREST).DWG
LAYOUT NAME - 050401-PP (NCR)

PLOT DATE : 3/29/2017 12:33 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 50'_XREF

STEUDEL, DONALD R & CONNIE M

LILLGE, DREW M & WILHELMI

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

END CONSTRUCTION
STA 26'MM'+77
MATCH EXISTING
SAWCUT REQ'D

28'MM' CTH M

30'MM'

LONE HICKORY LN

CTH MM

R/W

12'MM' 14'MM' 16'MM' 18'MM' 20'MM' 22'MM' 24'MM' 28'MM'

+39.0 80' LT

+18.5 80' LT

TLE

-5.5%

CAUTION

MERKT, PAUL J

SLOPE INTERCEPT

CRANT, DARLENE R & BRUCE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

SAWCUT

OBLITERATE OLD ROAD

CISMOSKI, JAMES H

KORPELA, GERALD & ARDYTHE

BREYENWOOD CT

PUGLIESE, SEBAST. K III & LORI

370'MM'

5

5

N

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

2.07%

2.12%

LOW POINT STA 10+79.93
LOW POINT EL 782.06

VCL = 75.00
K = 21.292

VCL = 275.00
K = 89.053

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

CTH 'MM' R/L
FINISHED PROFILE

5.21%

CTH 'MM' R/L EXISTING PROFILE

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

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

-1.22%

STA 26'MM'+76.55
EL 828.79

VCL = 450.00
K = 70.045

EXISTING PROFILE ELEVATIONS AT CTH 'MM' R/L
FINISHED PROFILE ELEVATIONS AT CTH 'MM' R/L

| | | |

✳PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT AT UNUSED ANCHOR ASSEMBLIES CAULK HOLES SHUT WITH "100% SILICONE CAULK".

(2) INDICATES WING NUMBER

NOTE:
SURFACE DRAIN ANCHORS/CONCRETE SHOULDER TIE BARS REQUIRED AT WINGS 1 & 2.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF=
OPERATING RATING FACTOR: RF=
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY DECK — 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.
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.

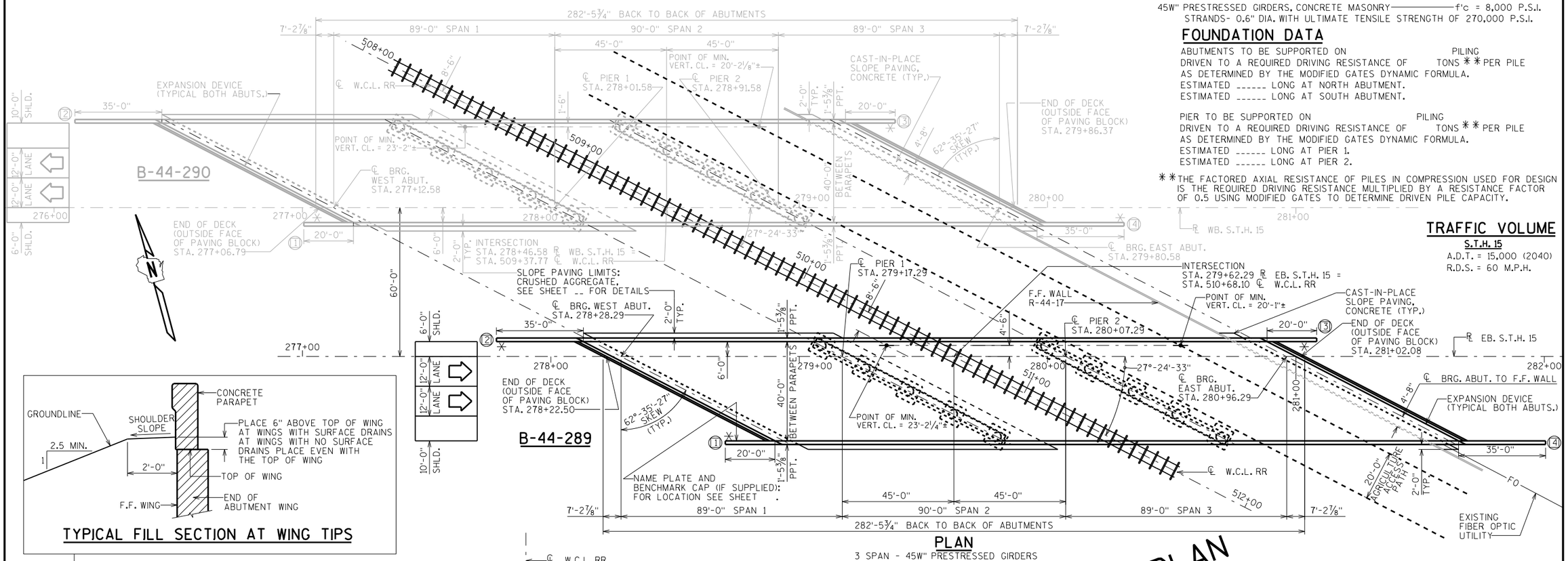
FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON PILING
DRIVEN TO A REQUIRED DRIVING RESISTANCE OF TONS ** PER PILE
AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED _____ LONG AT NORTH ABUTMENT.
ESTIMATED _____ LONG AT SOUTH ABUTMENT.

PIER TO BE SUPPORTED ON PILING
DRIVEN TO A REQUIRED DRIVING RESISTANCE OF TONS ** PER PILE
AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED _____ LONG AT PIER 1.
ESTIMATED _____ LONG AT PIER 2.

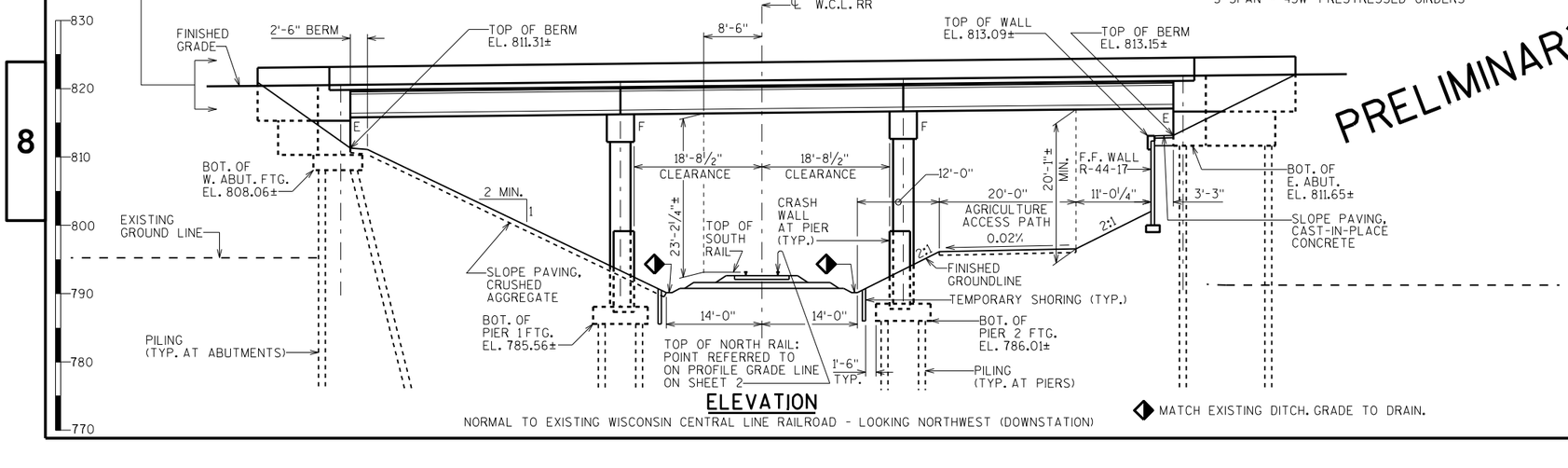
** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

STATE PROJECT NUMBER
1146-75-71



PLAN
3 SPAN - 45W" PRESTRESSED GIRDERS

TYPICAL FILL SECTION AT WING TIPS



ELEVATION
NORMAL TO EXISTING WISCONSIN CENTRAL LINE RAILROAD - LOOKING NORTHWEST (DOWNSTATION)

◆ MATCH EXISTING DITCH. GRADE TO DRAIN.

PRELIMINARY PLAN

TRAFFIC VOLUME

S.T.H. 15
A.D.T. = 15,000 (2040)
R.D.S. = 60 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. SUBSURFACE EXPLORATION
4.
5.
6.
7.
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STRUCTURES DESIGN CONTACTS:
MAY LIU (608) 266-5163
DAVID KIEKBUSCH (608) 266-5084

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED _____ DATE _____
CHIEF STRUCTURES DESIGN ENGINEER

STRUCTURE B-44-289
STH 15 EASTBOUND LANES OVER WCL RAILROAD
COUNTY OUTAGAMIE TOWN HORTONIA
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MWL	NAR	JPH	nar

GENERAL PLAN
SHEET 1 OF

8 8

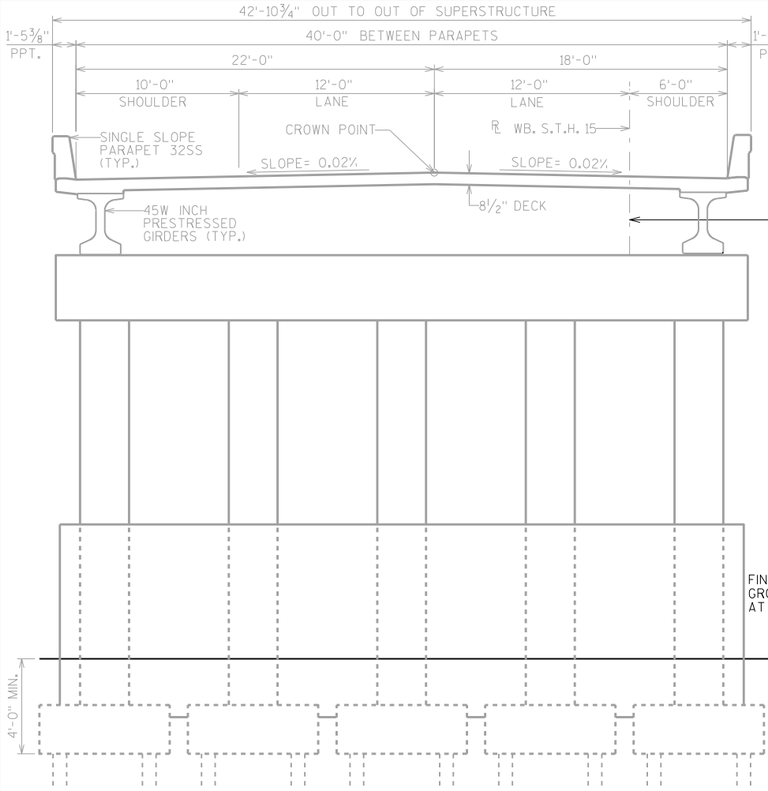
SCALE = 20

I.D. 1146-75-001

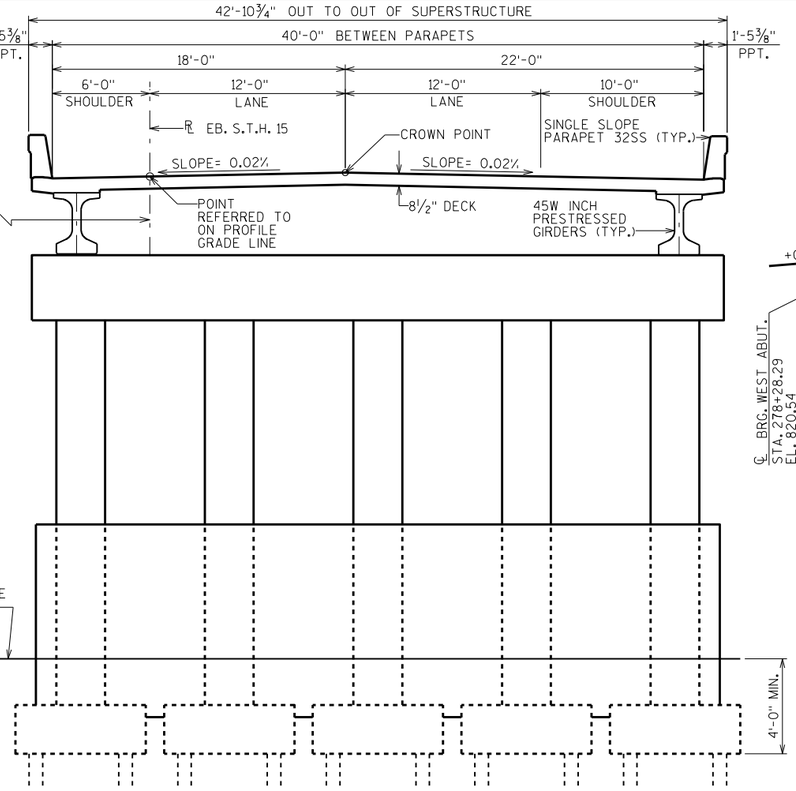
DATE: FEB. 2015

STATE PROJECT NUMBER

1146-75-71

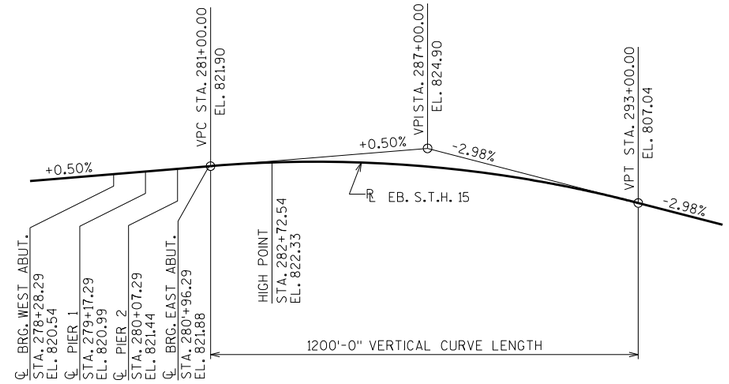


B-44-290 (S.T.H. 15 WESTBOUND LANES)

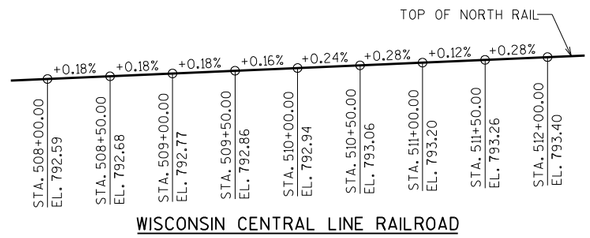


B-44-289 (S.T.H. 15 EASTBOUND LANES)

CROSS SECTION THRU ROADWAY LOOKING EAST (UPSTATION)



PROFILE GRADE LINE FOR EB. S.T.H. 15



WISCONSIN CENTRAL LINE RAILROAD

PROFILE GRADE LINE FOR EXISTING RAILROAD

(FOR INFORMATIONAL PURPOSES ONLY)

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	WEST ABUT.	EAST ABUT.	PIER 1	PIER 2	TOTALS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-44-289	LS	———	———	———	———	———	1
210.0100	BACKFILL STRUCTURE	CY	———			———	———	
502.0100	CONCRETE MASONRY BRIDGES	CY						
502.3100	EXPANSION DEVICE B-44-289	LS	———	———	———	———	———	1
502.3200	PROTECTIVE SURFACE TREATMENT	SY				———	———	
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF		———	———	———	———	
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	———					
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB						
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	———	———	———			
506.2610	BEARING PADS ELASTOMERIC LAMINATED	EACH	———			———	———	
506.4000	STEEL DIAPHRAGMS B-44-289	EACH		———	———	———	———	
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	———			———	———	
	PILING	LF	———					
604.0400	SLOPE PAVING CONCRETE	SY	———	———		———	———	
604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY	———		———	———	———	
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	———			———	———	
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	———			———	———	
SPV.0165	TEMPORARY SHORING RAILROAD	SF	———	———	———			
	NON-BID ITEMS							
	FILLER/EXPANDED POLYSTYRENE	SIZE	———	———	———	———	———	½", ¾" &1"
	BRIDGE SEAT PROTECTION	LS	———	———	———	———	———	1

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.

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.

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACES OF THE ABUTMENTS BELOW THE EXPANSION DEVICES.

THE GRADATION OF THE STRUCTURE BACKFILL SHALL MEET THE REQUIREMENTS OF SECTION 209.2.2 OF THE STANDARD SPECIFICATIONS FOR GRADE 1 MATERIAL.

THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE AND THE FRONT FACE AND THE TOP OF THE PARAPET, INCLUDING PARAPETS ON ABUTMENT WINGS.

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.

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.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-289

DRAWN BY JPH | PLANS CK'D. NAR

CROSS SECTION & QUANTITIES

SHEET 2

8

8

SCALE = 4.5

✳PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT AT UNUSED ANCHOR ASSEMBLIES CAULK HOLES SHUT WITH "100% SILICONE CAULK".

(2) INDICATES WING NUMBER

NOTE:
SURFACE DRAIN ANCHORS/CONCRETE SHOULDER TIE BARS REQUIRED AT WINGS 1 & 2.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF=
OPERATING RATING FACTOR: RF=
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY DECK — 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.
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.

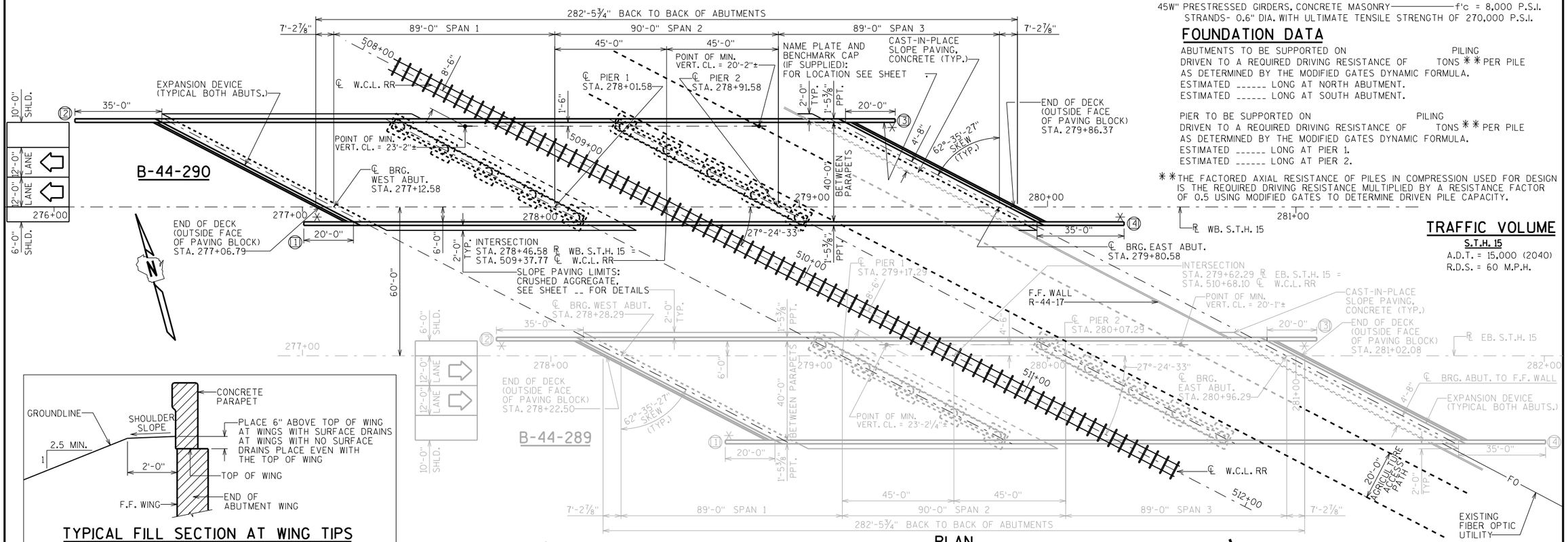
FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON PILING
DRIVEN TO A REQUIRED DRIVING RESISTANCE OF TONS ** PER PILE
AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED _____ LONG AT NORTH ABUTMENT.
ESTIMATED _____ LONG AT SOUTH ABUTMENT.

PIER TO BE SUPPORTED ON PILING
DRIVEN TO A REQUIRED DRIVING RESISTANCE OF TONS ** PER PILE
AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED _____ LONG AT PIER 1.
ESTIMATED _____ LONG AT PIER 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.

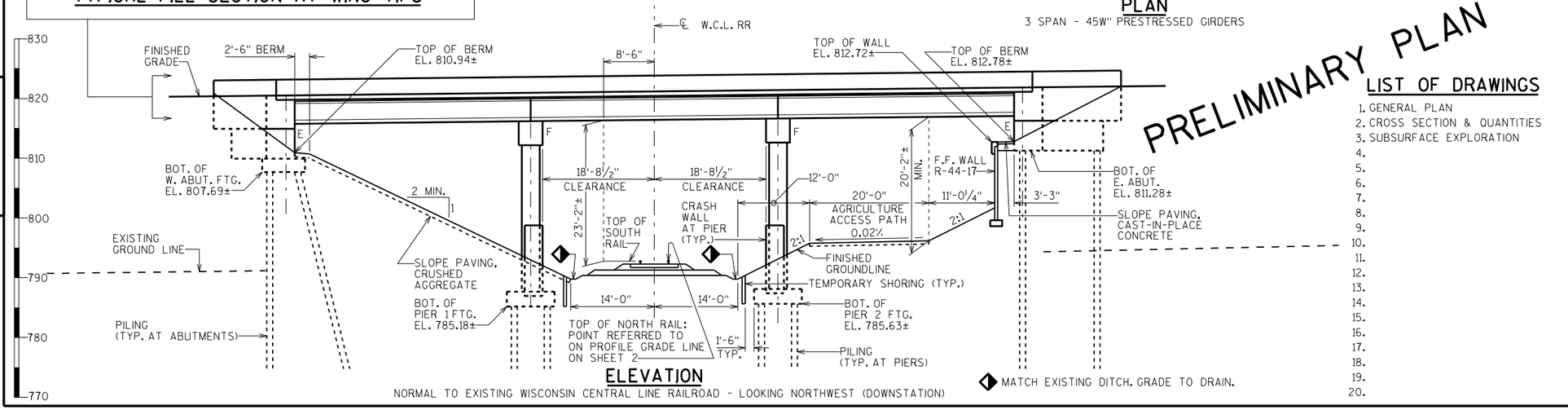
STATE PROJECT NUMBER
1146-75-71



PLAN

3 SPAN - 45W" PRESTRESSED GIRDERS

TYPICAL FILL SECTION AT WING TIPS



ELEVATION

NORMAL TO EXISTING WISCONSIN CENTRAL LINE RAILROAD - LOOKING NORTHWEST (DOWNSTATION)

◆ MATCH EXISTING DITCH. GRADE TO DRAIN.

PRELIMINARY PLAN

TRAFFIC VOLUME

S.T.H. 15
A.D.T. = 15,000 (2040)
R.D.S. = 60 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. SUBSURFACE EXPLORATION
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STRUCTURES DESIGN CONTACTS:
MAY LIU (608) 266-5163
DAVID KIEKBUSCH (608) 266-5084

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-44-290

STH 15 WESTBOUND LANES OVER WCL RAILROAD

COUNTY	TOWN
OUTAGAMIE	HORTONIA

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MWL	NAR	JPH	nar

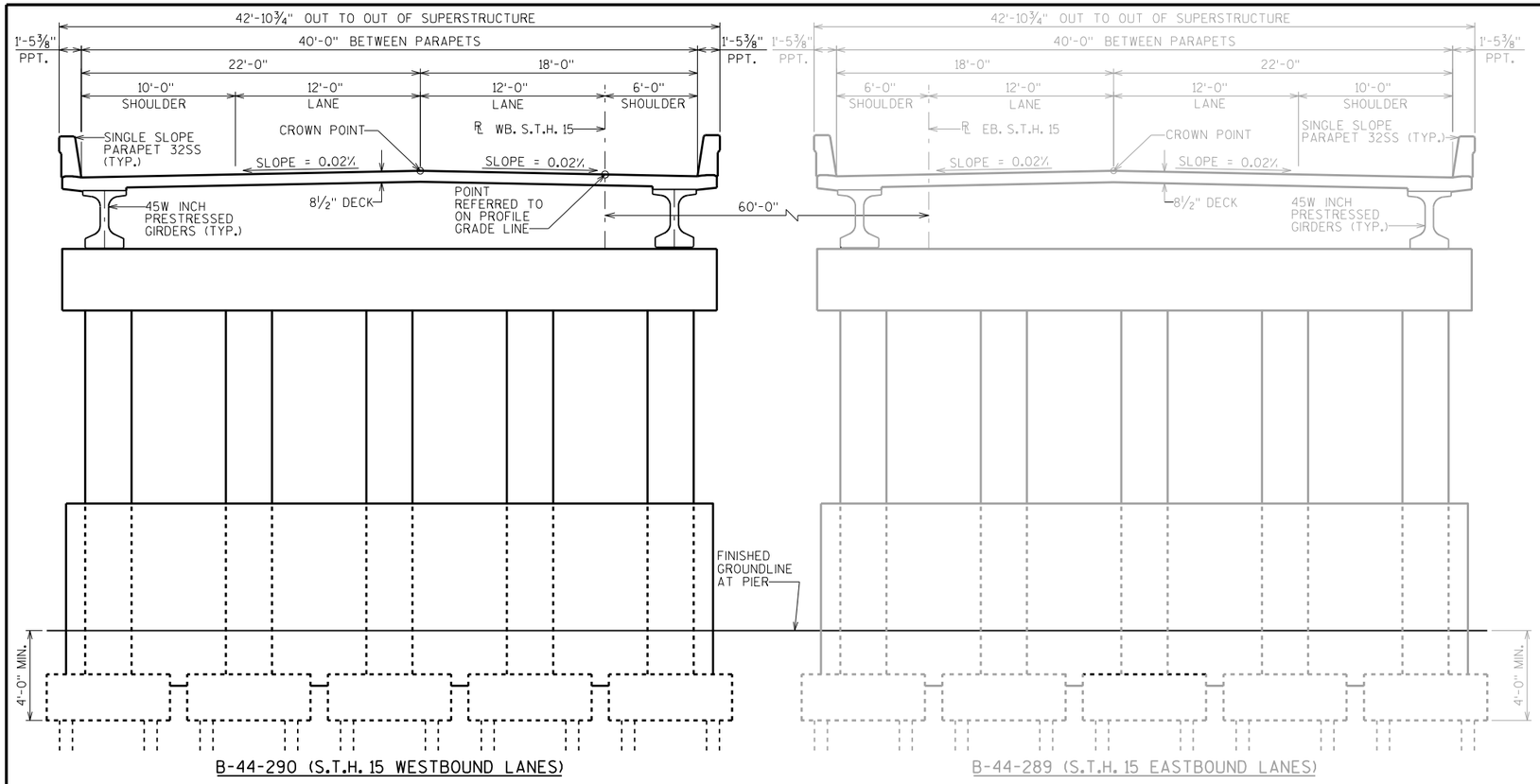
GENERAL PLAN

SHEET 1 OF

SCALE = 20

I.D. 1146-75-00J

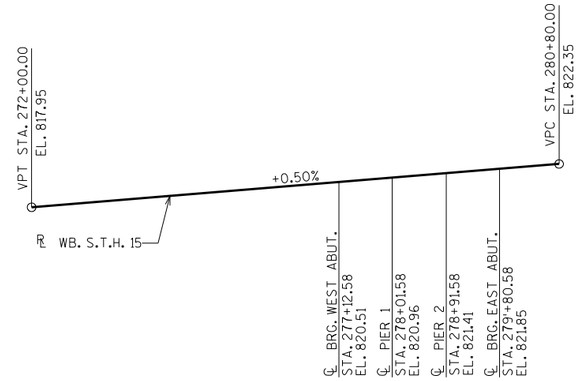
DATE: FEB. 2015



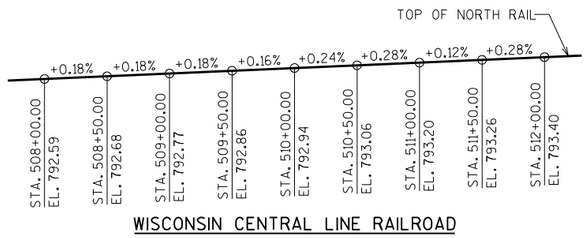
CROSS SECTION THRU ROADWAY LOOKING EAST (UPSTATION)

STATE PROJECT NUMBER

1146-75-71



PROFILE GRADE LINE FOR WB. S.T.H. 15



WISCONSIN CENTRAL LINE RAILROAD

PROFILE GRADE LINE FOR EXISTING RAILROAD

(FOR INFORMATIONAL PURPOSES ONLY)

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	WEST ABUT.	EAST ABUT.	PIER 1	PIER 2	TOTALS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-44-290	LS	——	——	——	——	——	1
210.0100	BACKFILL STRUCTURE	CY	——			——	——	
502.0100	CONCRETE MASONRY BRIDGES	CY						
502.3100	EXPANSION DEVICE B-44-290	LS	——	——	——	——	——	1
502.3200	PROTECTIVE SURFACE TREATMENT	SY				——	——	
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF		——	——	——	——	
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	——					
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB						
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	——	——	——			
506.2610	BEARING PADS ELASTOMERIC LAMINATED	EACH	——			——	——	
506.4000	STEEL DIAPHRAGMS B-44-290	EACH		——	——	——	——	
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	——			——	——	
	PILING	LF	——					
604.0400	SLOPE PAVING CONCRETE	SY	——	——		——	——	
604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY	——		——	——	——	
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	——			——	——	
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	——			——	——	
SPV.0165	TEMPORARY SHORING RAILROAD	SF	——	——	——			
	NON-BID ITEMS							
	FILLER/EXPANDED POLYSTYRENE	SIZE	——	——	——	——	——	½", ¾" &1"
	BRIDGE SEAT PROTECTION	LS	——	——	——	——	——	1

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.

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.

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACES OF THE ABUTMENTS BELOW THE EXPANSION DEVICES.

THE GRADATION OF THE STRUCTURE BACKFILL SHALL MEET THE REQUIREMENTS OF SECTION 209.2.2 OF THE STANDARD SPECIFICATIONS FOR GRADE 1 MATERIAL.

THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE AND THE FRONT FACE AND THE TOP OF THE PARAPET, INCLUDING PARAPETS ON ABUTMENT WINGS.

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.

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.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-290

DRAWN BY JPH | PLANS CK'D. NAR

CROSS SECTION & QUANTITIES

SHEET 2

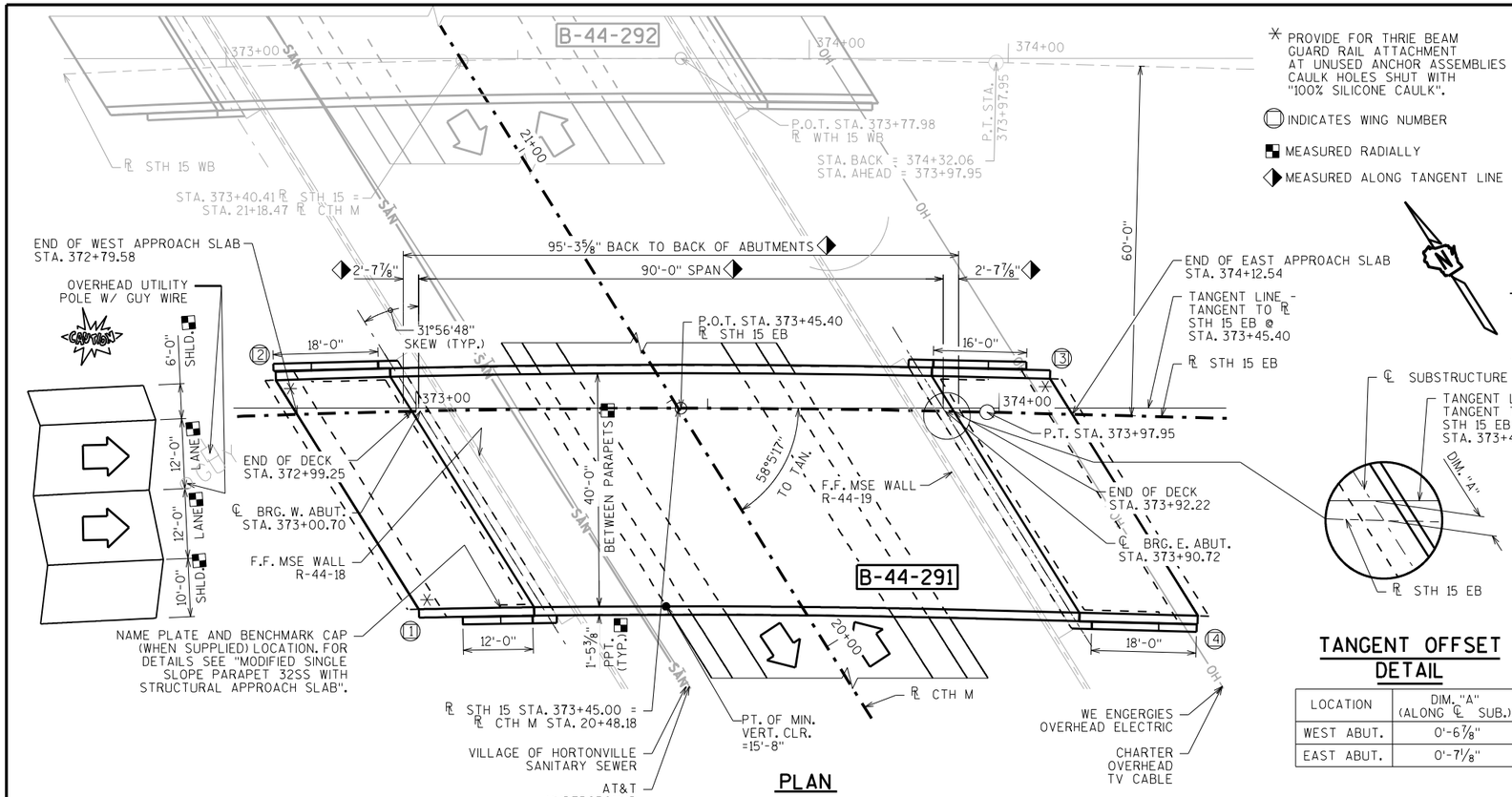
8

8

SCALE = 4.5

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=1.05
OPERATING RATING FACTOR: RF=1.36
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.

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"

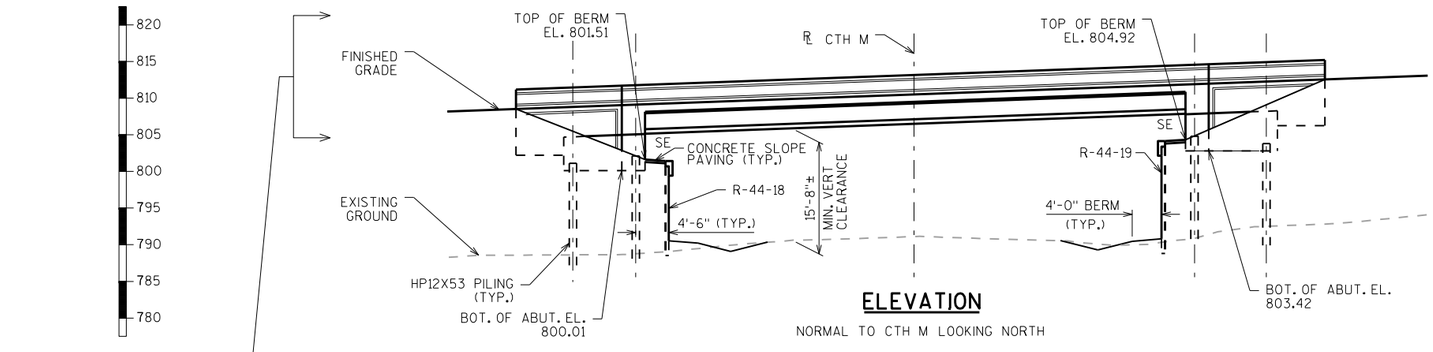
TRAFFIC VOLUME

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.

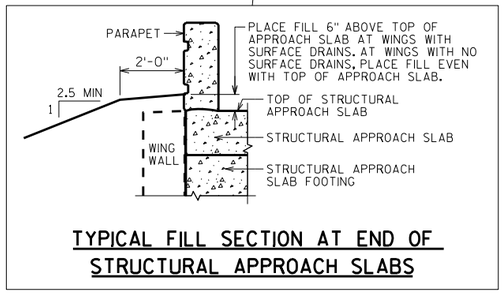
CURVE DATA

STH 15 : EB-12	STH 15 : WB-12
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)

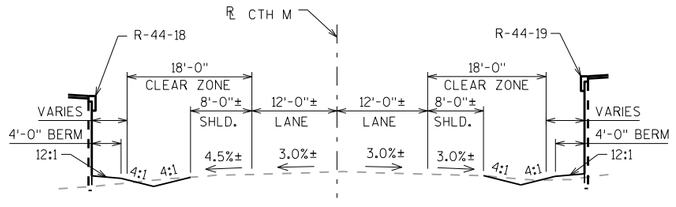


ELEVATION

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 32SS WITH STRUCTRAL APPROACH SLAB
21. AESTHETIC DETAILS
22. ALTERNATE CONSTRUCTION JOINT

STRUCTURE DESIGN CONTACTS:

STACIE WEIS (608) 261-6109
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ DATE _____
CHIEF STRUCTURES DESIGN ENGINEER

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	

GENERAL PLAN

SHEET 1 OF 22

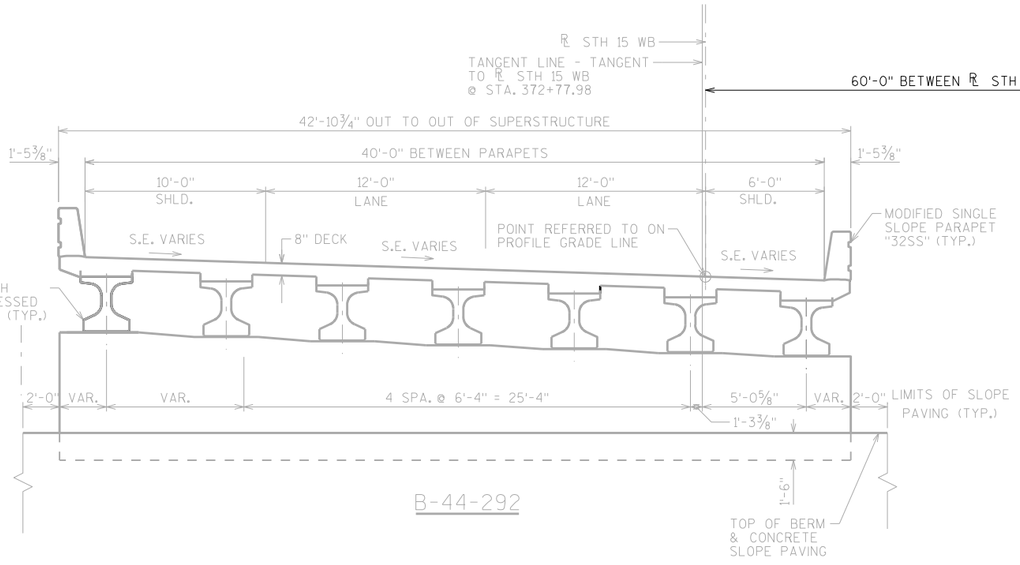
I.D. 1146-75-00A DATE: DEC. 2016

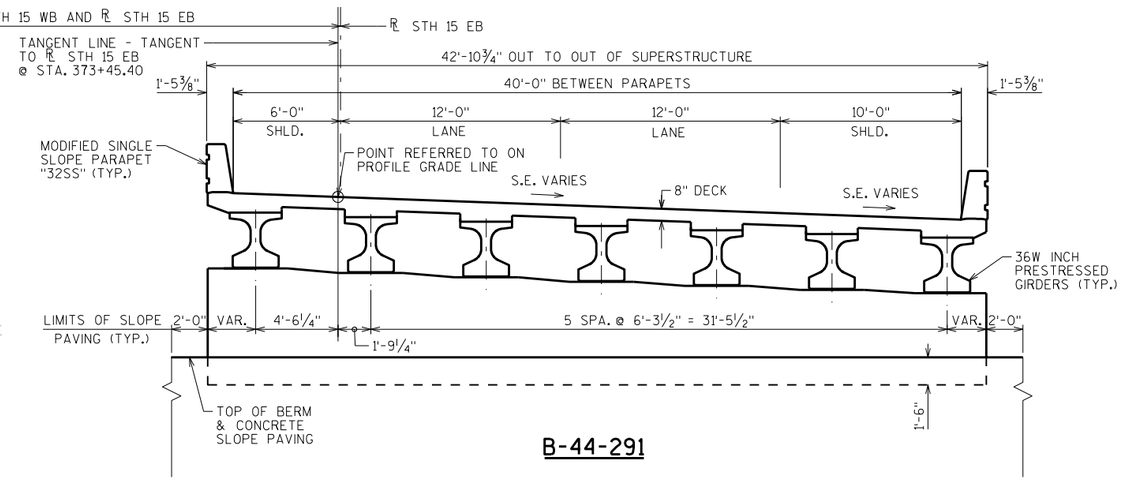
SCALE = 12.00

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.

CROSS SECTION

SHEET 2

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 DETIAL 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.

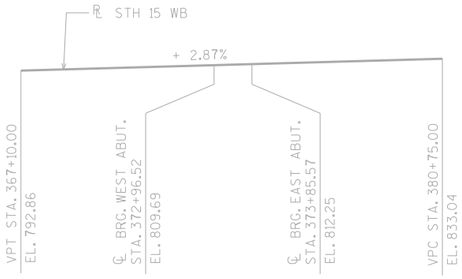
THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.

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	———	———	147	135	———	282
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	———	132	———	———	136	268
502.0100	CONCRETE MASONRY BRIDGES	CY	190	60	57	59	62	430
502.3200	PROTECTIVE SURFACE TREATMENT	SY	415	90	———	———	90	595
502.3210	PIGMENTED SURFACE SEALER	SY	78	17	———	———	17	112
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	26200	10435	1870	2150	10785	51440
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
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	———	———	100	105	———	205
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	———	2	———	———	1	3
			———	———	———	———	———	
	NON-BID ITEMS		———	———	———	———	———	
	FILLER	SIZE	———	———	———	———	———	½", ¾" &1½"



PROFILE GRADE LINE STH 15 WB

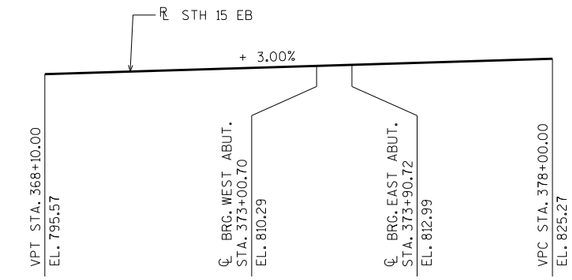
B-44-292 SUPER ELEVATION TRANSITIONS

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.

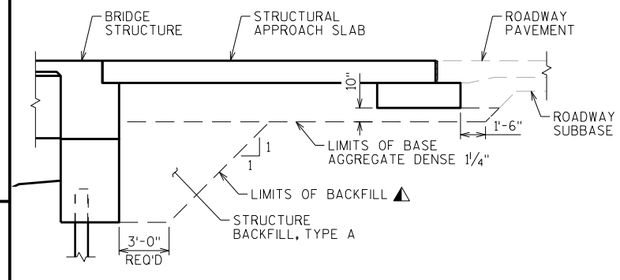


PROFILE GRADE LINE STH 15 EB

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%

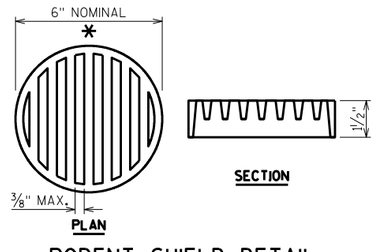
NOTE: SUPER ELEVATION INFORMATION PROVIDED FOR INFORMATIONAL PURPOSES ONLY.



TYPICAL SECTION THRU ABUTMENT

(A1 ABUTMENT WITH STRUCTURAL APPROACH)

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

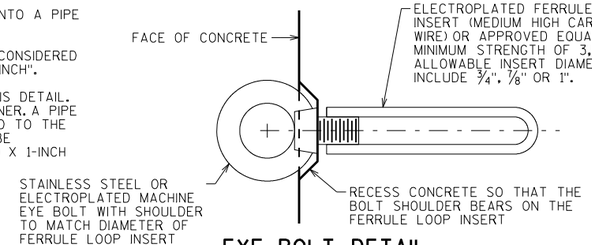


RODENT SHIELD DETAIL

* 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.



EYE BOLT DETAIL

COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".

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.

QUANTITIES

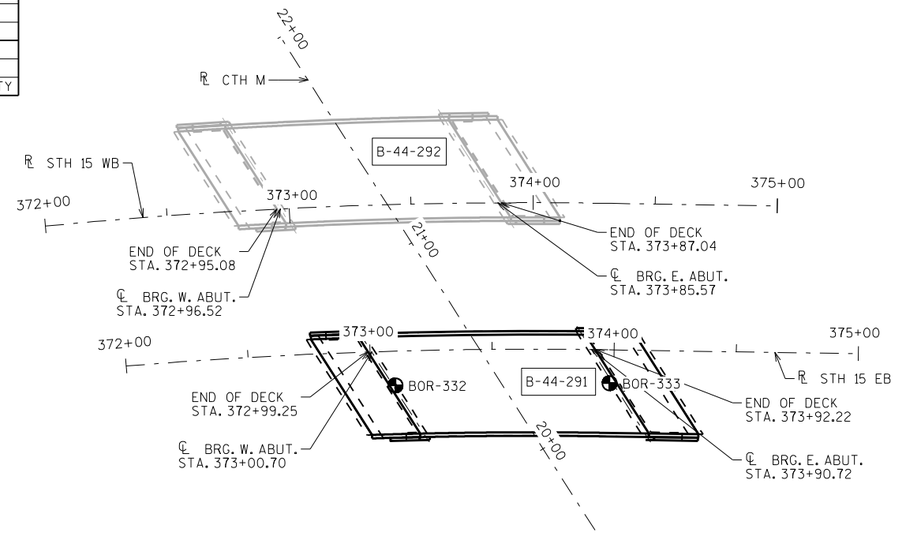
SHEET 3

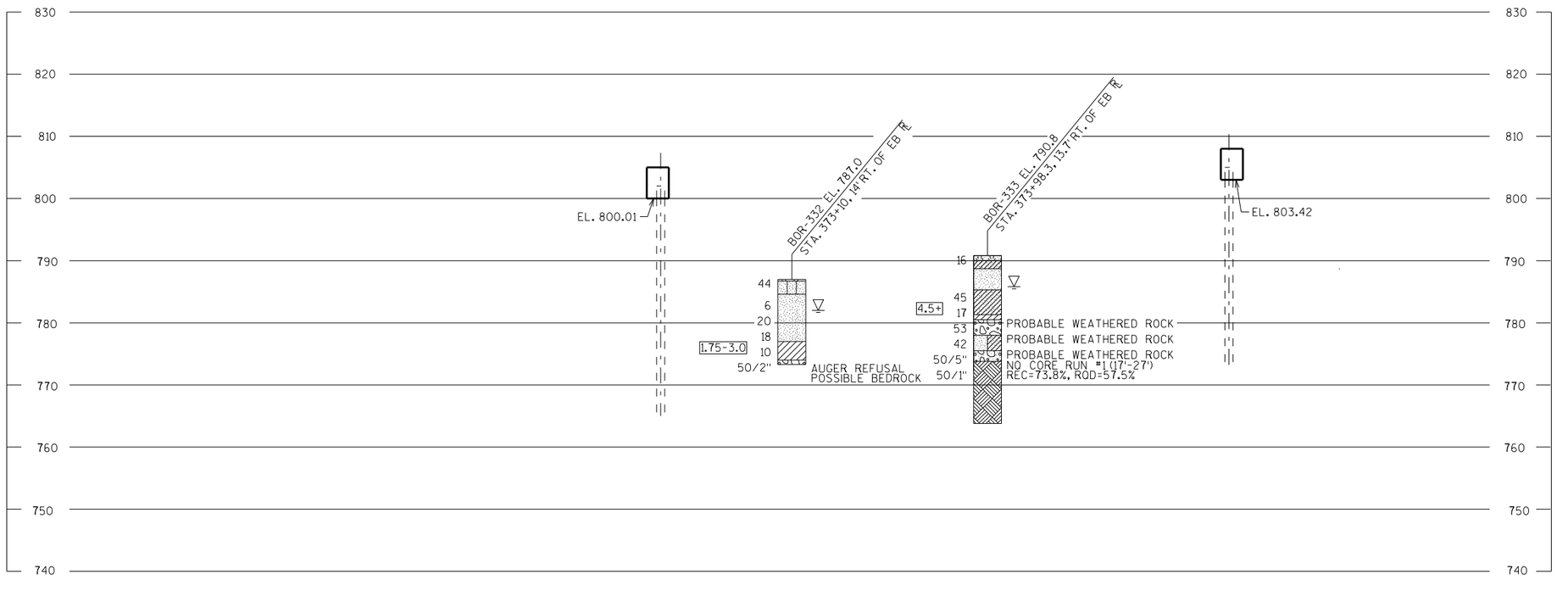
8

8

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			





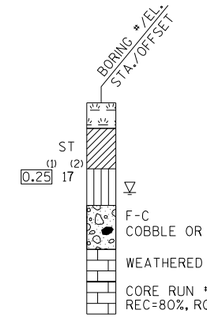
STATE PROJECT NUMBER

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.

SUBSURFACE EXPLORATION

SHEET 4

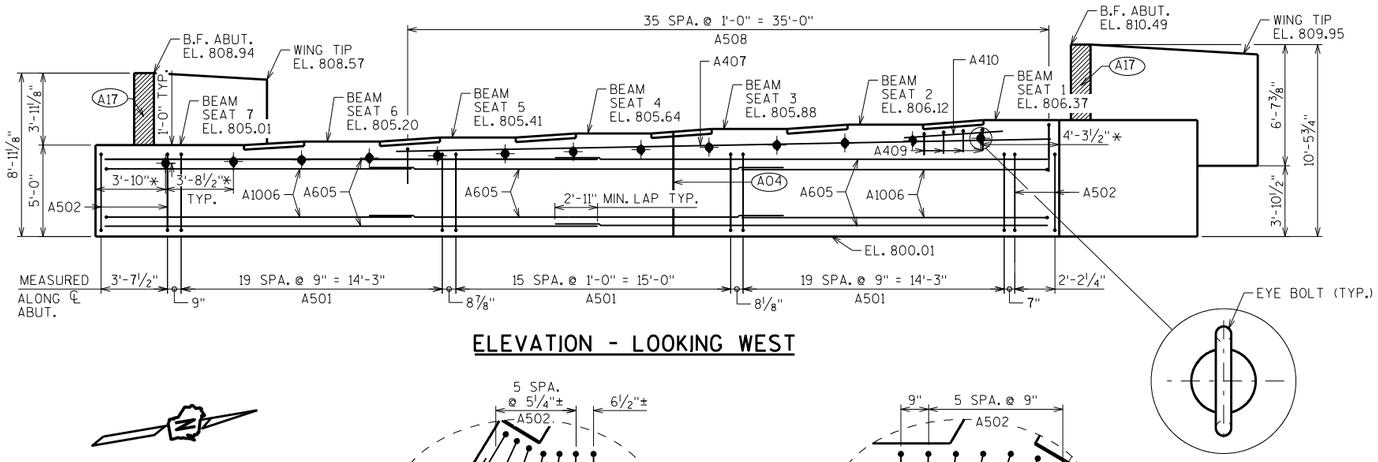
SCALE = 30.00

8

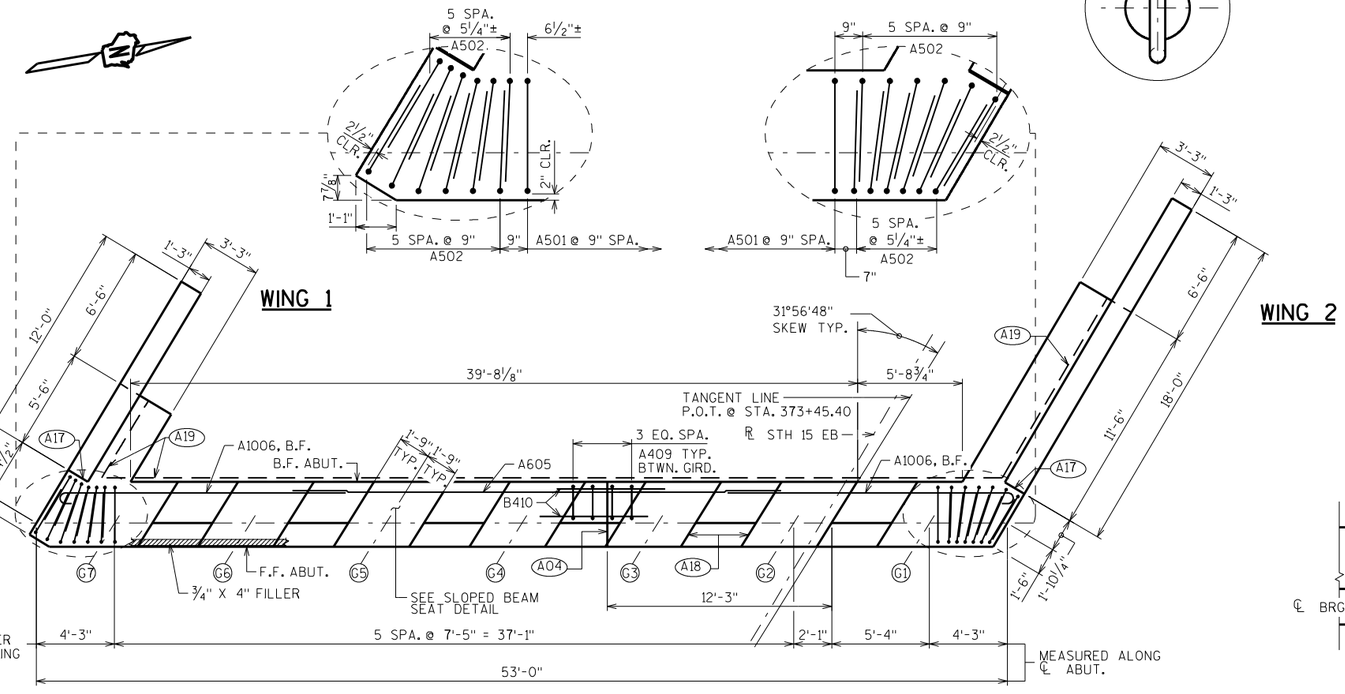
8

STATE PROJECT NUMBER

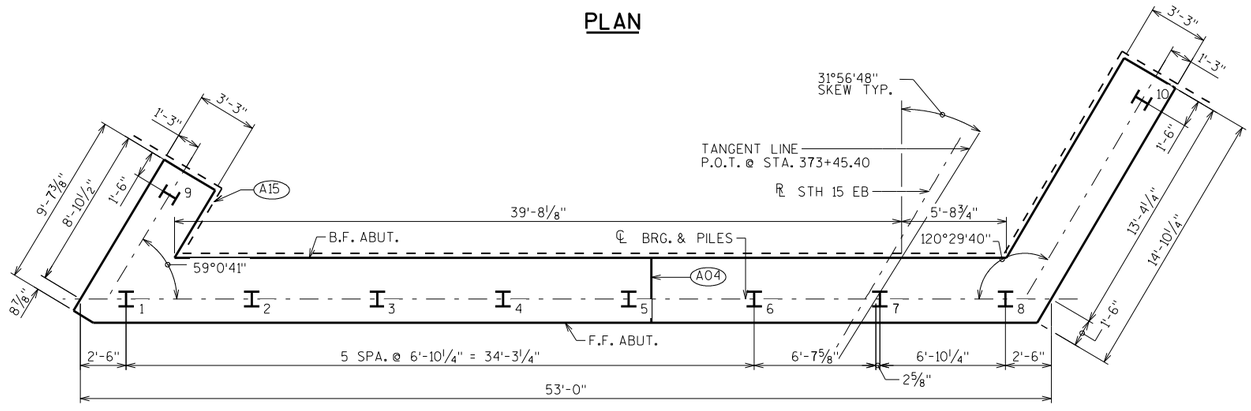
1146-75-71



ELEVATION - LOOKING WEST



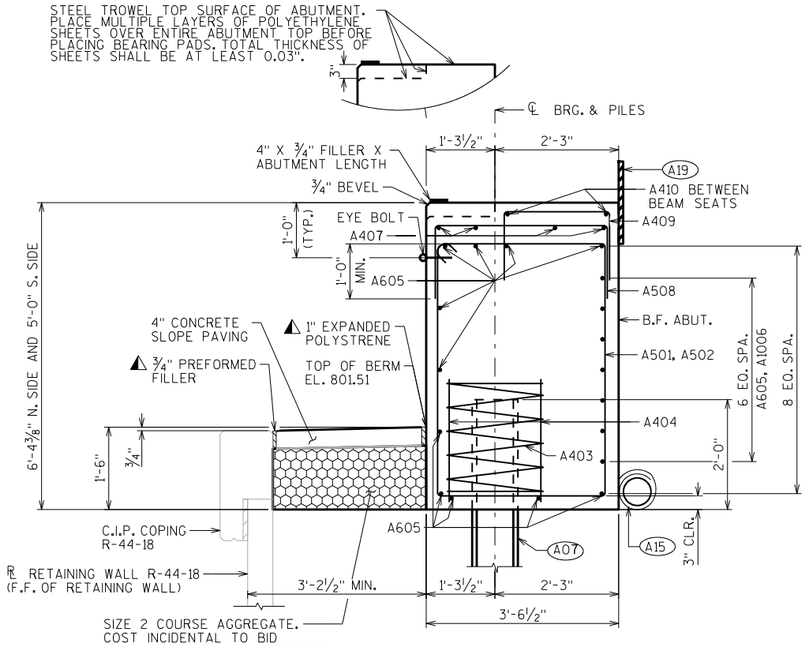
PLAN



PILE PLAN

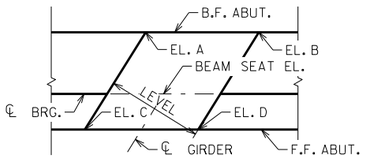
* DIMENSION MEASURED ALONG F.F. OF ABUT.

NOTE: FOR EYE BOLT DETAIL SEE "QUANTITIES" SHEET.



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.

(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 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.

WEST ABUTMENT

SHEET 5

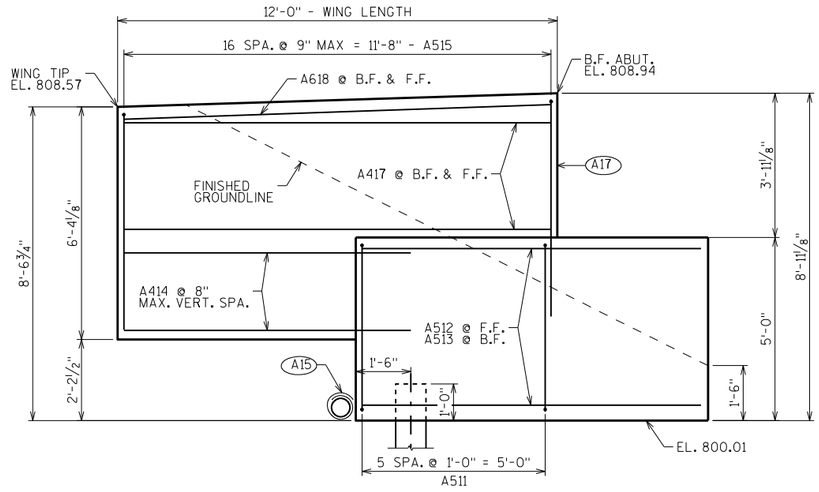
SCALE = 4.00

8

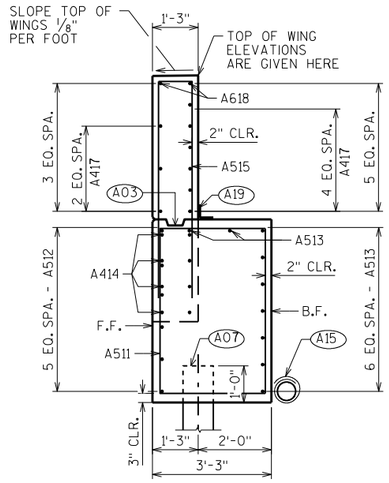
8

STATE PROJECT NUMBER

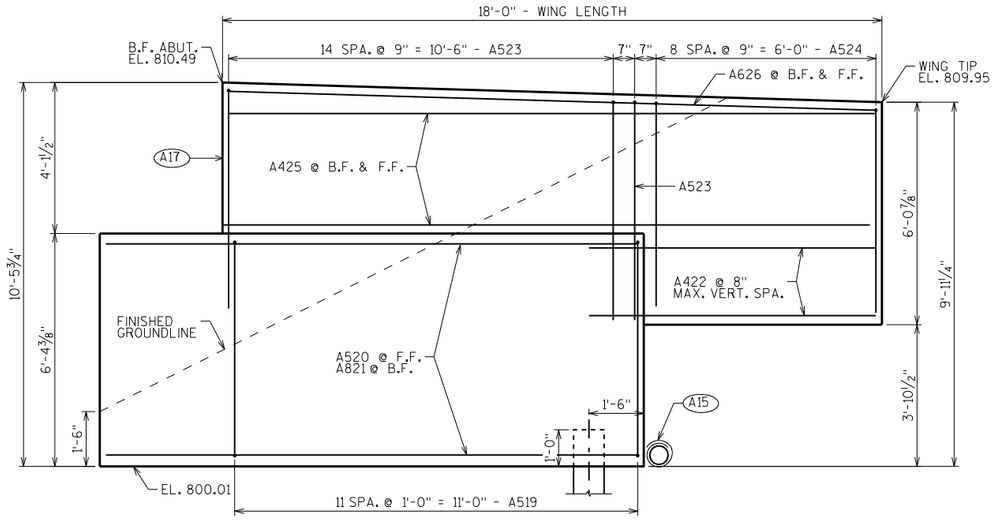
1146-75-71



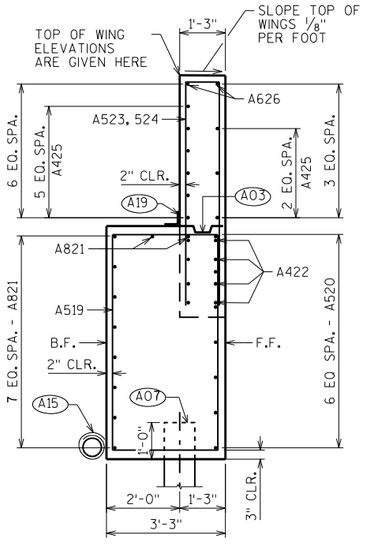
WING 1 ELEVATION



SECTION THRU WING 1



WING 2 ELEVATION



SECTION THRU WING 2

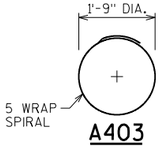
(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

(A07) SUPPORT ABUTMENT ON HP 12 x 53 STEEL PILING, ESTIMATED 35'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

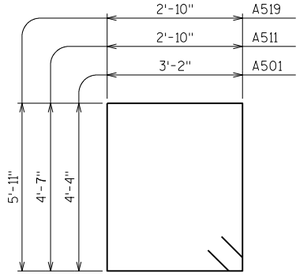
(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(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.

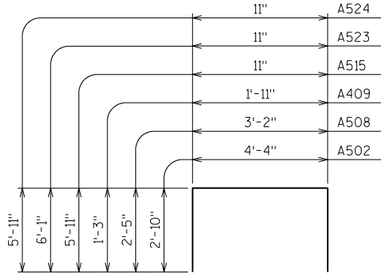
(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



A403



A501, A511, A519

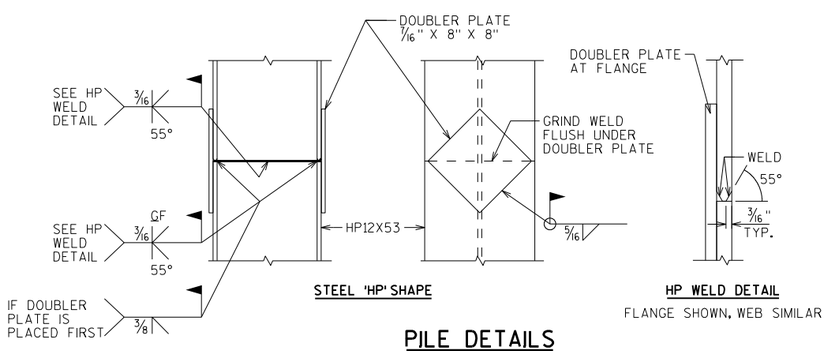


A502, A508, A409, A515 A523, A524

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	6	15'-6"	X		WING 1 - VERTICAL - STIRRUPS
A512	X	6	9'-3"			WING 1 - HORIZONTAL - F.F.
A513	X	9	6'-0"			WING 1 - HORIZONTAL - B.F.
A414	X	8	7'-10"			WING 1 - HORIZONTAL
A515	X	17	12'-6"	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

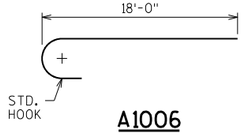


STEEL 'HP' SHAPE

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

DRAWN BY SEW | PLANS CK'D.

WEST ABUTMENT DETAILS

SHEET 6

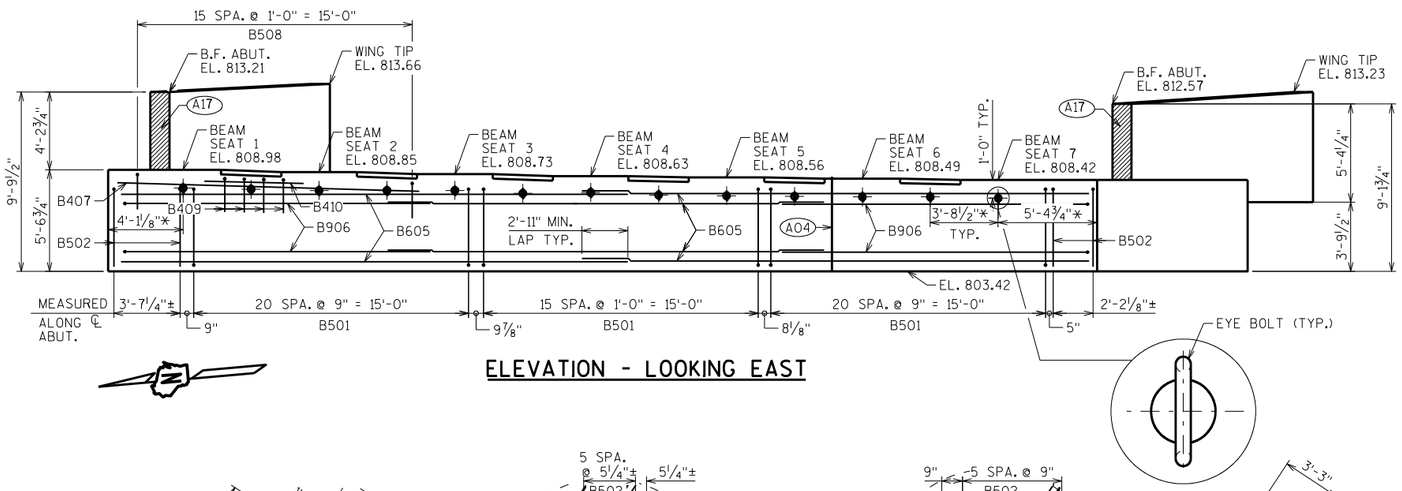
SCALE = 2.00

8

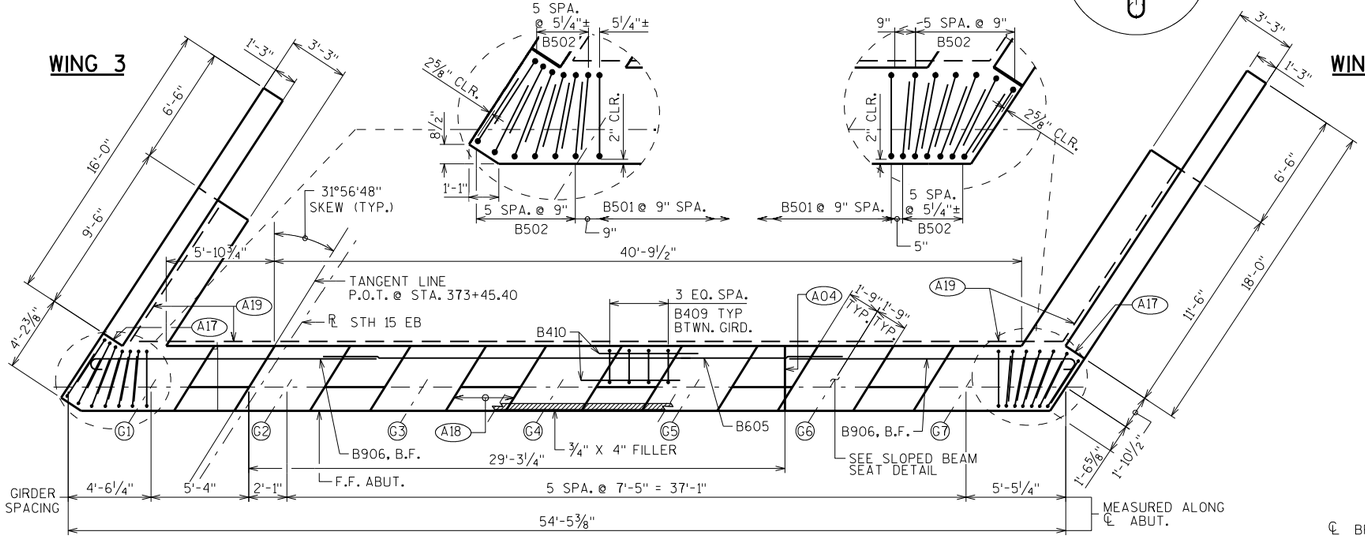
8

STATE PROJECT NUMBER

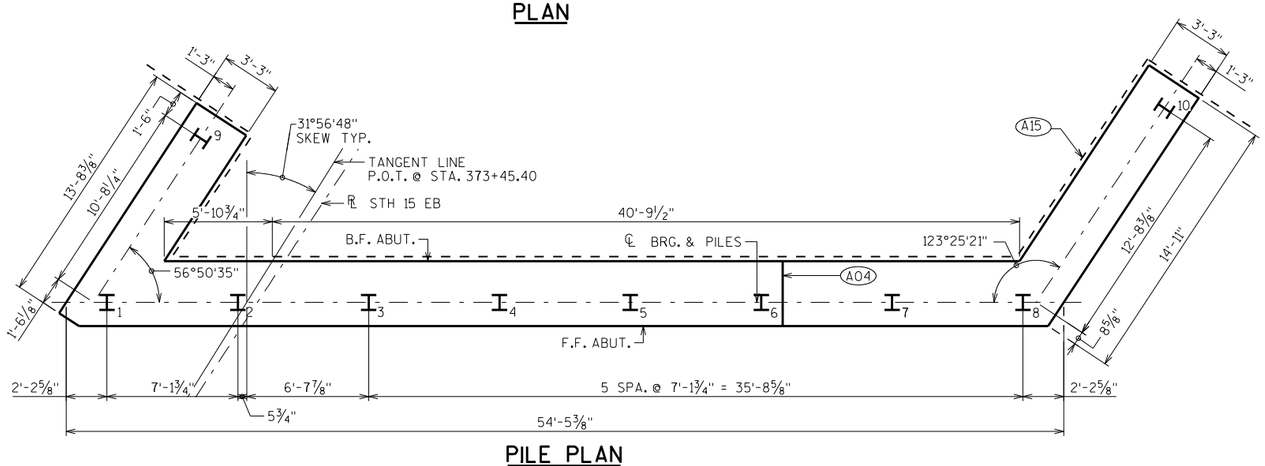
1146-75-71



ELEVATION - LOOKING EAST



PLAN

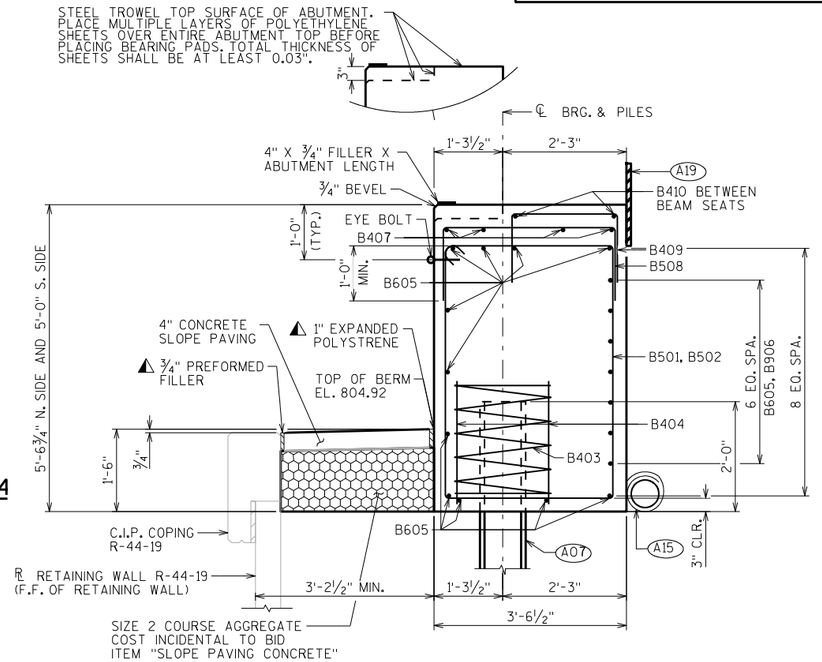


PILE PLAN

* DIMENSION MEASURED ALONG F.F. OF ABUT.

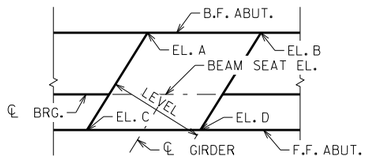
NOTE: FOR EYE BOLT DETAIL SEE "QUANTITIES" SHEET.

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

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.

(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 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.

EAST ABUTMENT

SHEET 7

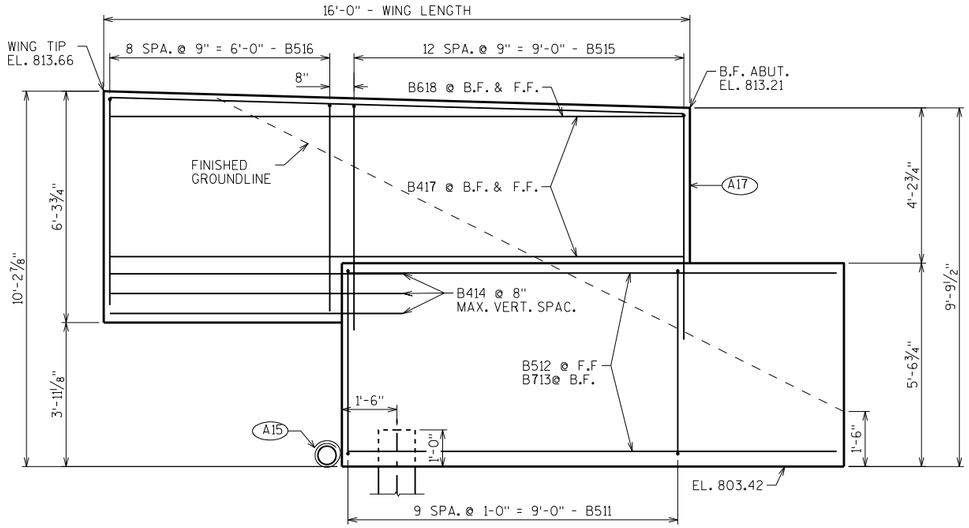
SCALE = 4.00

8

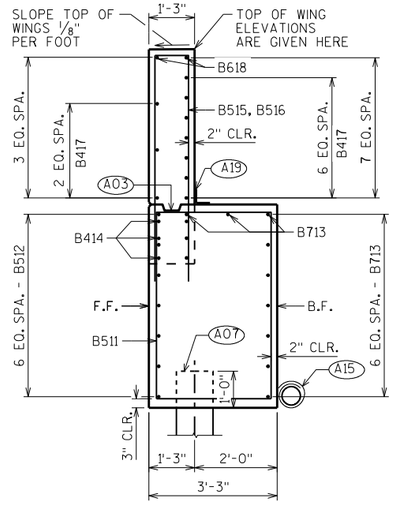
8

STATE PROJECT NUMBER

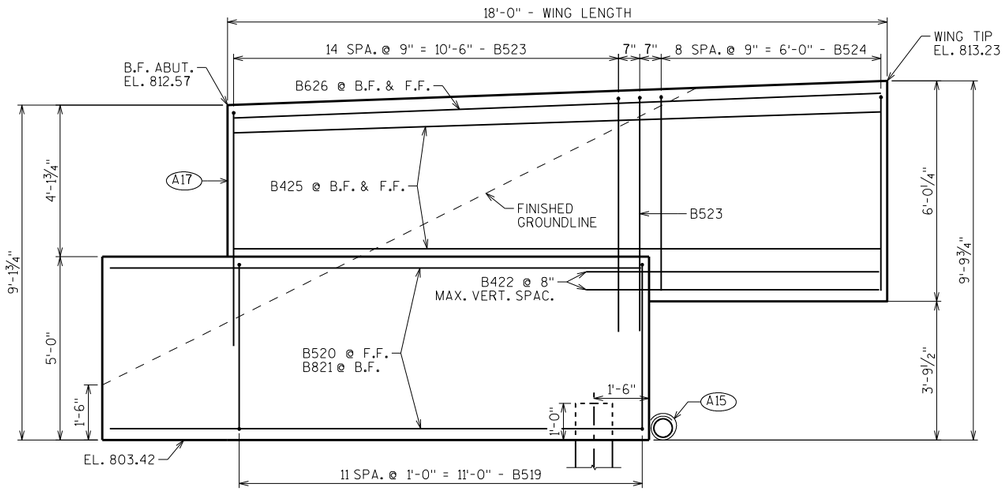
1146-75-71



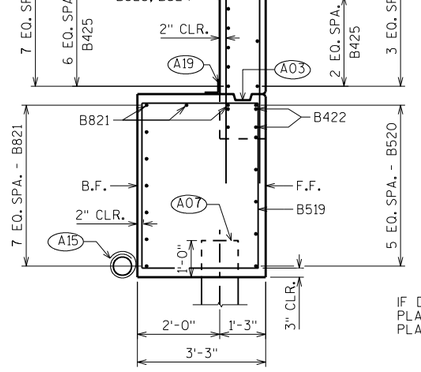
WING 3 ELEVATION



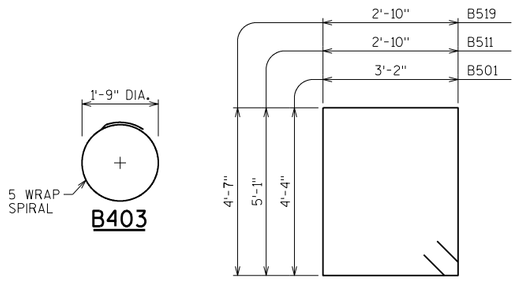
SECTION THRU WING 3



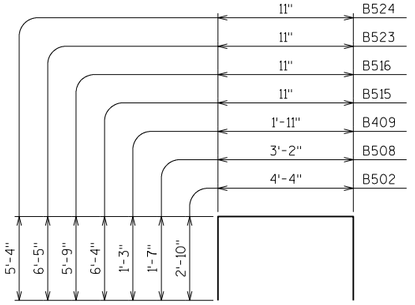
WING 4 ELEVATION



SECTION THRU WING 4

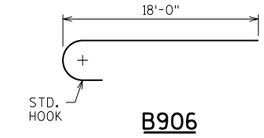


B501, B511, B519



B502, B508, B409, B515 B516, B523, B524

B403

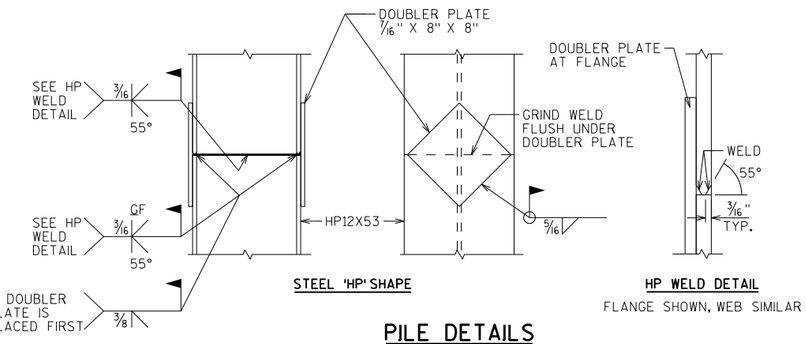


B906

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



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.

(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.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY SEW | PLANS CK'D.

EAST ABUTMENT DETAILS

SHEET 8

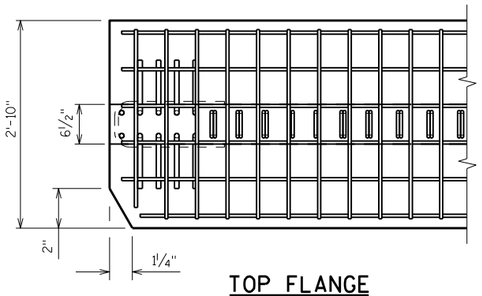
SCALE = 2.00

8

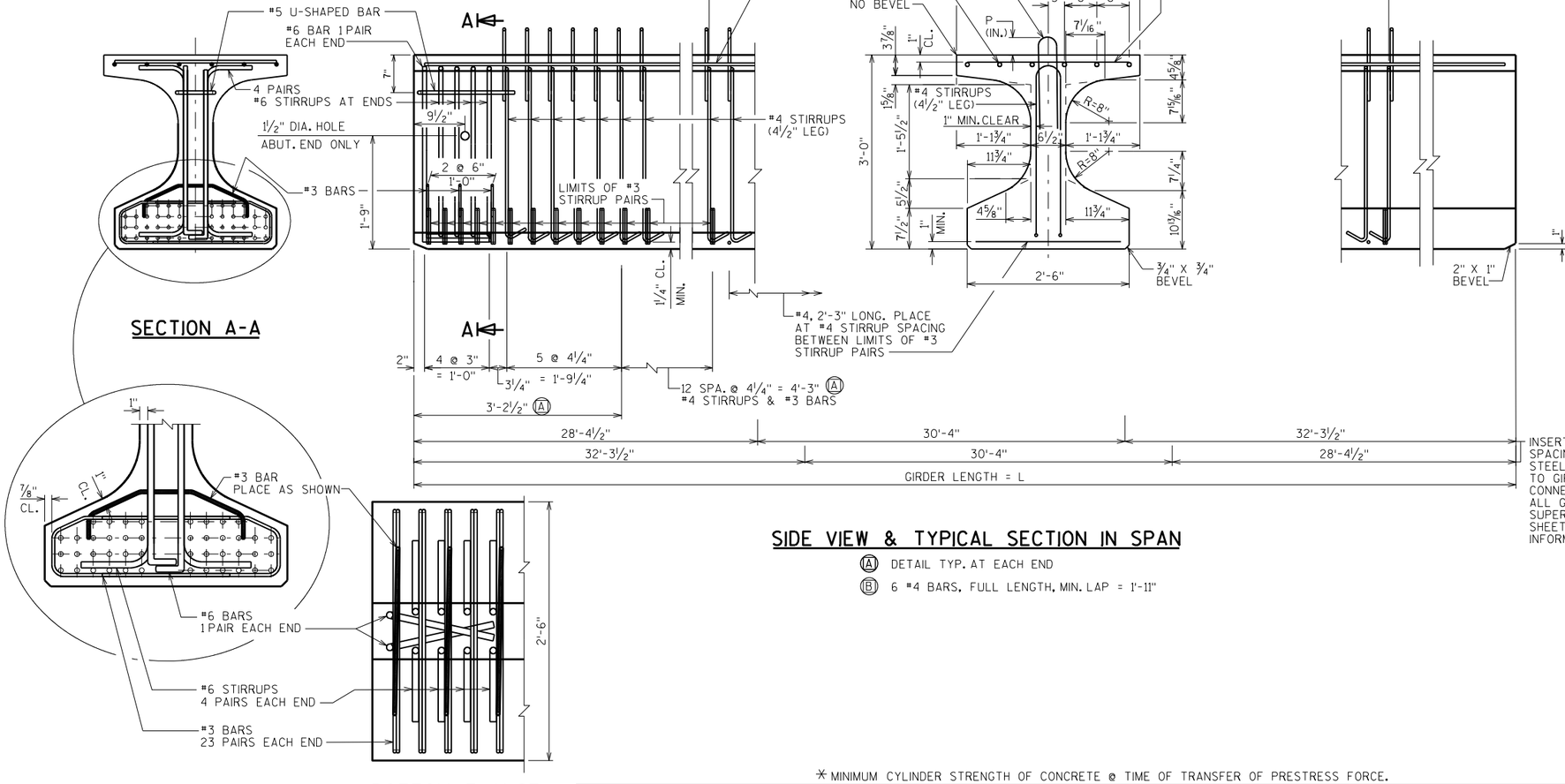
8

STATE PROJECT NUMBER

1146-75-71



TOP FLANGE



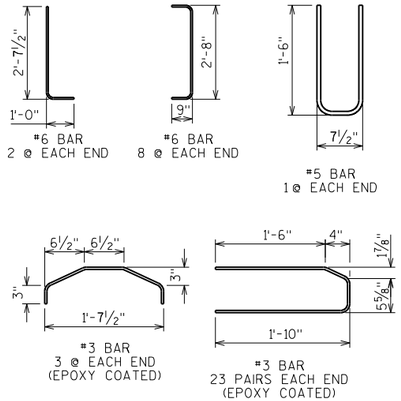
SECTION A-A

BOTTOM FLANGE

SIDE VIEW & TYPICAL SECTION IN SPAN

Ⓐ DETAIL TYP. AT EACH END

Ⓑ 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		

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY SEW | PLANS CK'D.

36W" PRESTRESSED GIRDER DETAILS 1

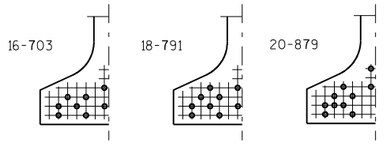
SHEET 9

SCALE = 1.00

8

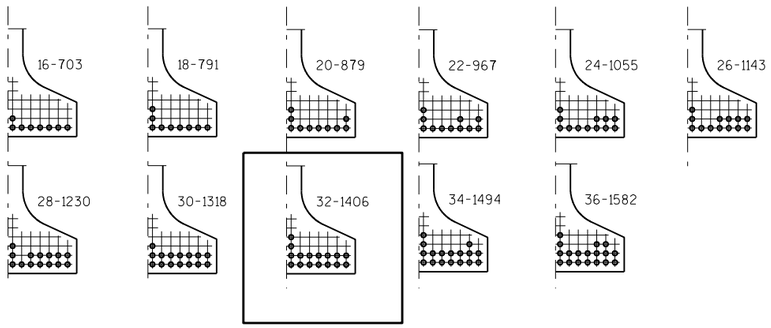
8

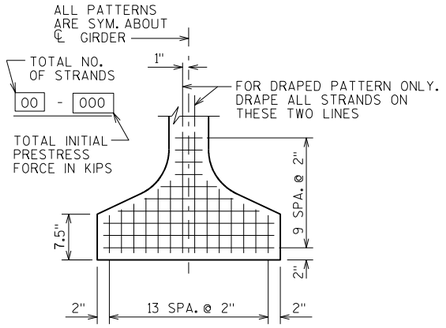
STATE PROJECT NUMBER
1146-75-71



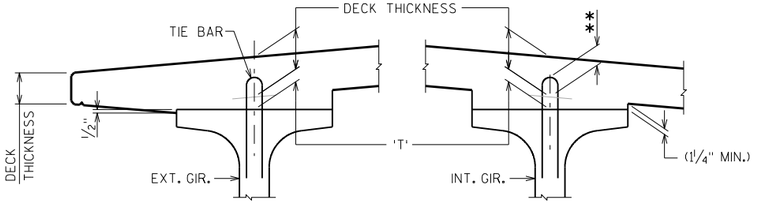
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6"Φ STRANDS





TYP. STRAND PATTERN



DECK HAUNCH DETAIL

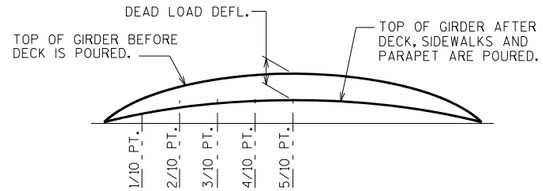
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** 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'

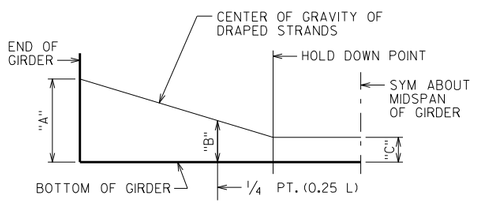
NOTE: AN AVERAGE HAUNCH ('T') OF 3.9" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".



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.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY SEW | PLANS CK'D.

36W" PRESTRESSED GIRDER DETAILS 2

SHEET 10

8

8

SCALE = 1.00

STATE PROJECT NUMBER

1146-75-71

NOTES

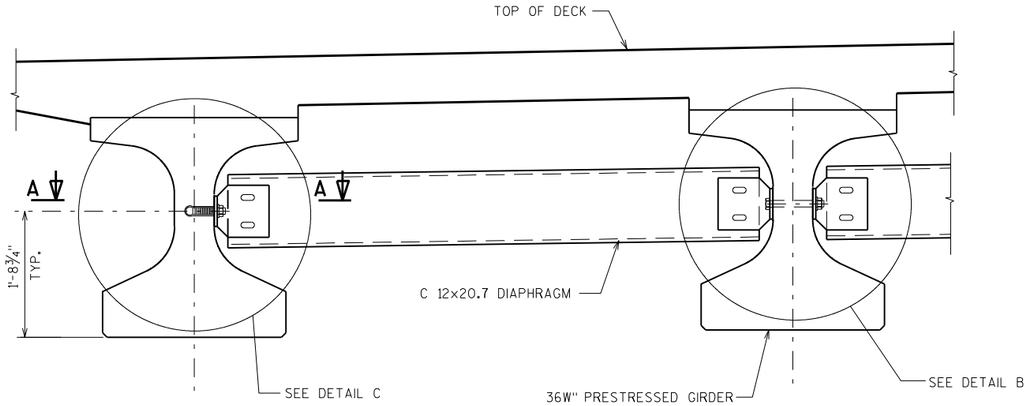
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-44-291", EACH.

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.

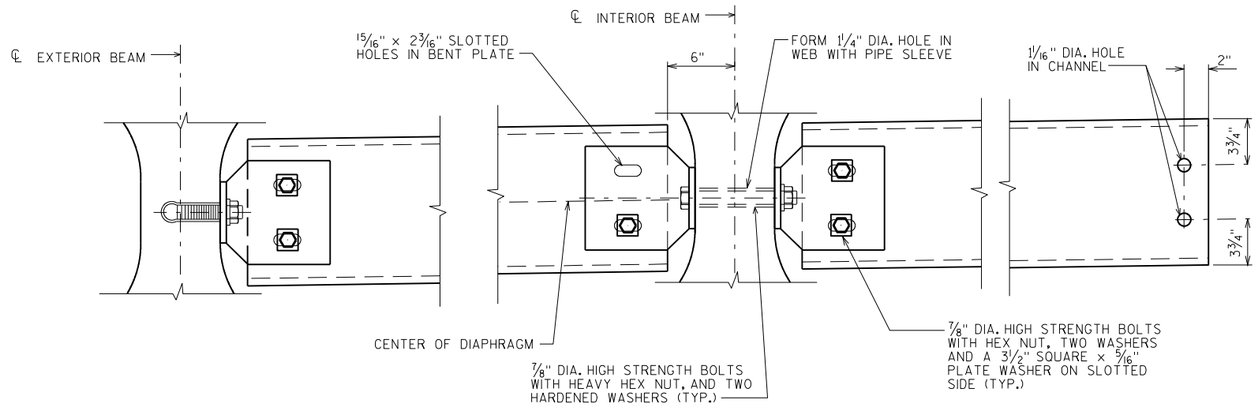
STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS 1/4 TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.



EXTERIOR GIRDER

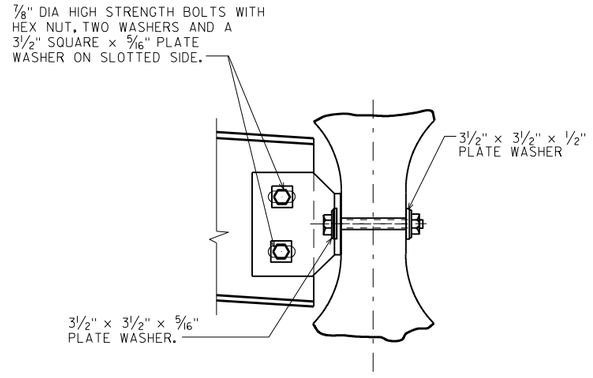
INTERIOR GIRDER

PART TRANSVERSE SECTION AT DIAPHRAGM

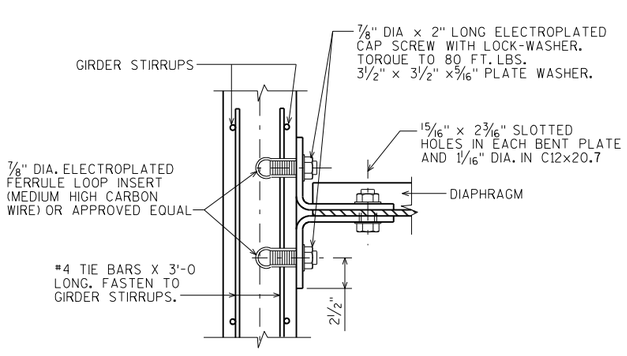


DETAIL C

DETAIL B

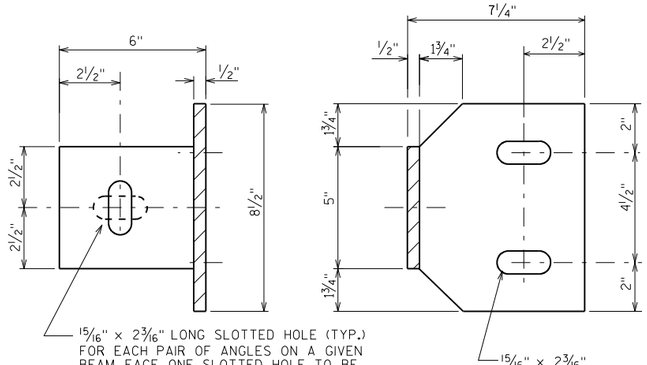


SECTION AT INTERIOR GIRDERS THRU DIAPHRAGM FOR SKEW ANGLES > 10°



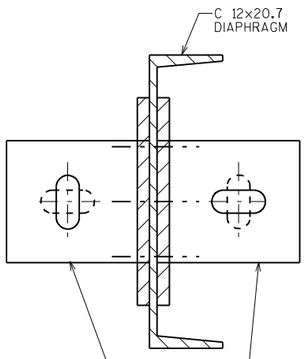
SECTION A-A

(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-44-291

DRAWN BY SEW | PLANS CK'D.

STEEL DIAPHRAGM

SHEET 11

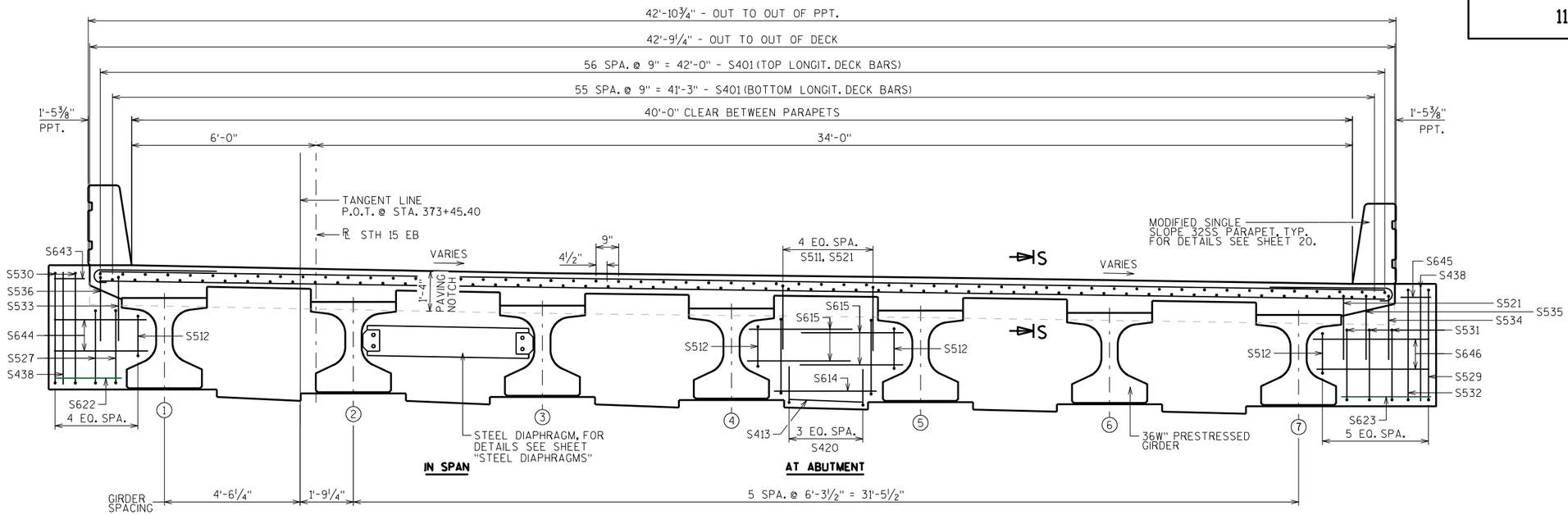
SCALE = 1.00

8

8

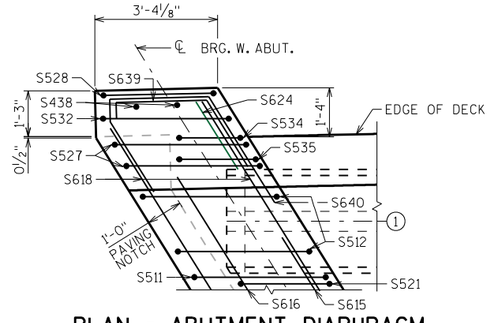
STATE PROJECT NUMBER

1146-75-71



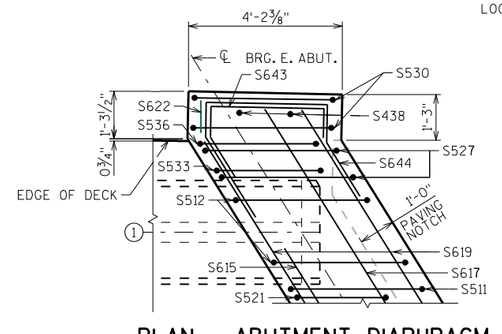
CROSS SECTION THRU ROADWAY

LOOKING EAST



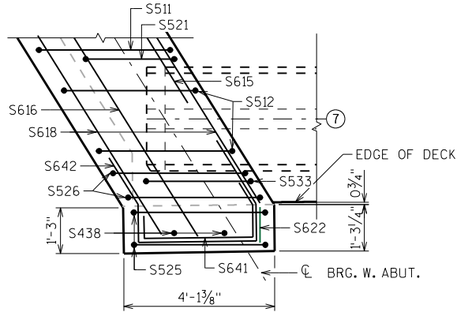
PLAN - ABUTMENT DIAPHRAGM

WING 2 SHOWN



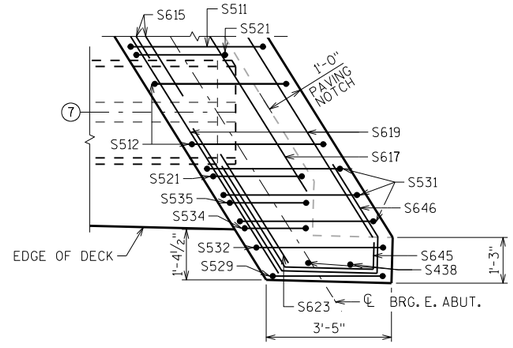
PLAN - ABUTMENT DIAPHRAGM

WING 3 SHOWN



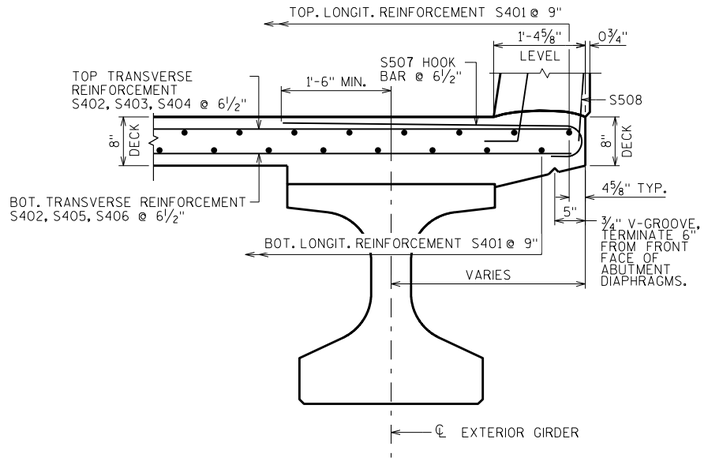
PLAN - ABUTMENT DIAPHRAGM

WING 1 SHOWN



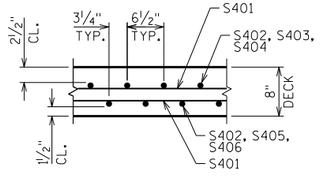
PLAN - ABUTMENT DIAPHRAGM

WING 4 SHOWN



DECK STEEL DETAIL

(TYP. AT BOTH EDGES)



SECTION S-S

◯ INDICATES GIRDER NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY SEW | PLANS CK'D.

SUPERSTRUCTURE CROSS SECTION

SHEET 12

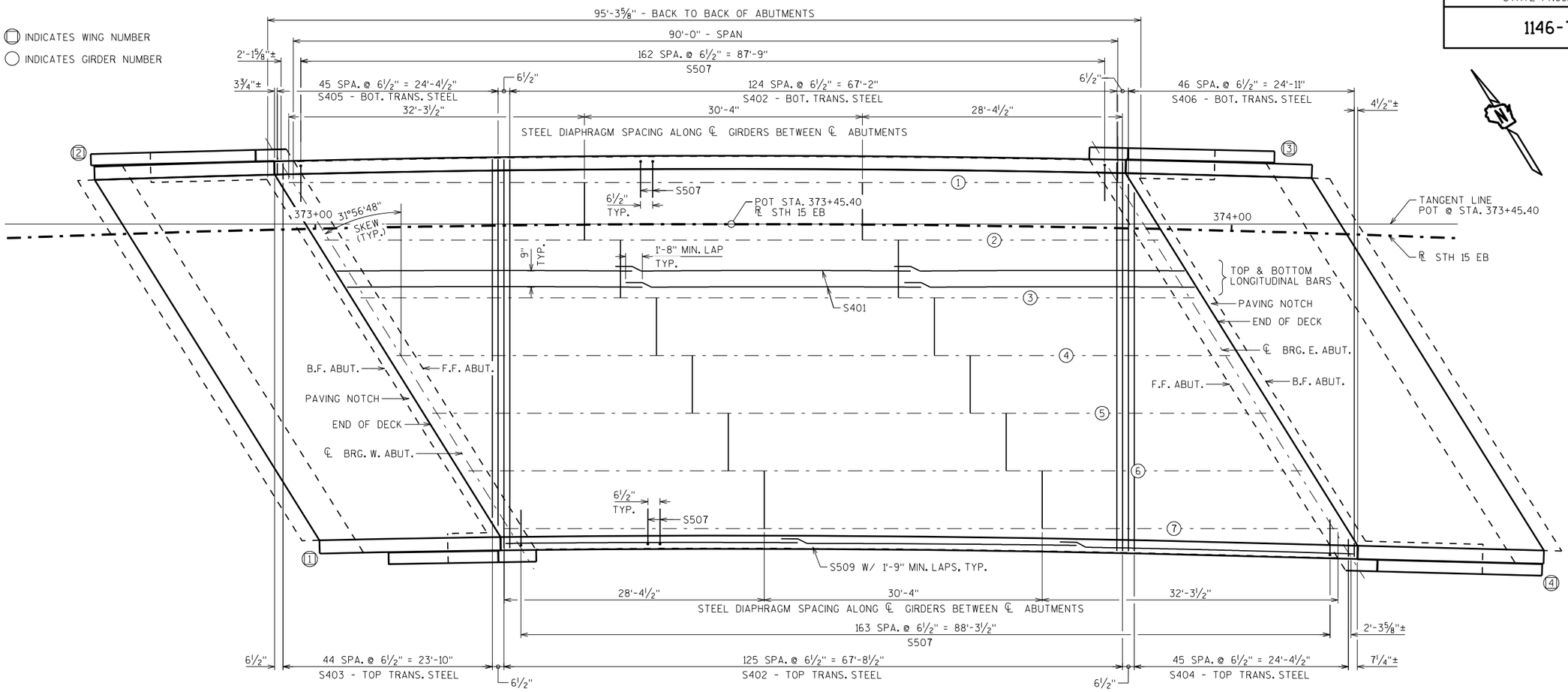
SCALE = 2.00

8

8

STATE PROJECT NUMBER

1146-75-71



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.

SUPERSTRUCTURE

SHEET 13

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"		X	DECK - TOP HORIZ. - LONGIT.
⚠ S404	X	46	21'-2"		X	DECK - TOP HORIZ. - TRANS.
⚠ S405	X	46	21'-1"		X	DECK - BOT. HORIZ - TRANS.
⚠ S406	X	47	21'-2"		X	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	5'-0"	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

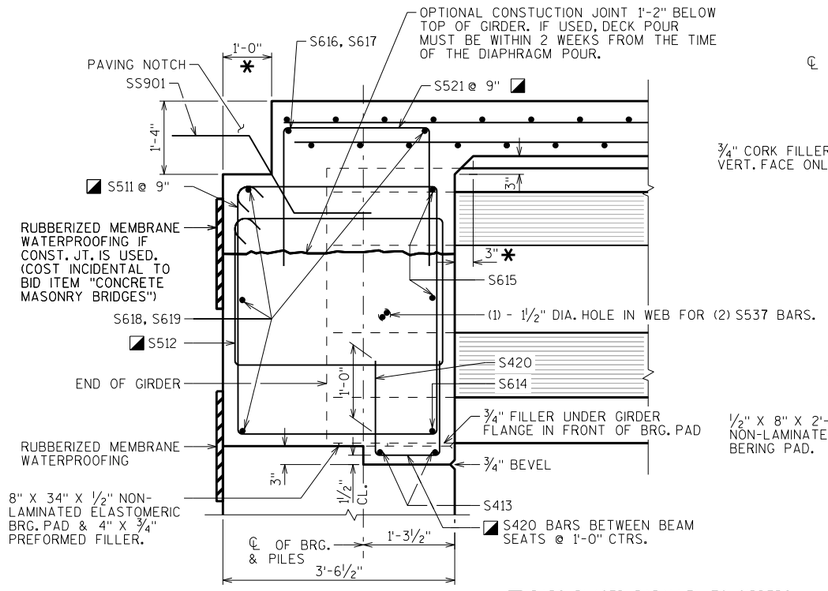
⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

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"

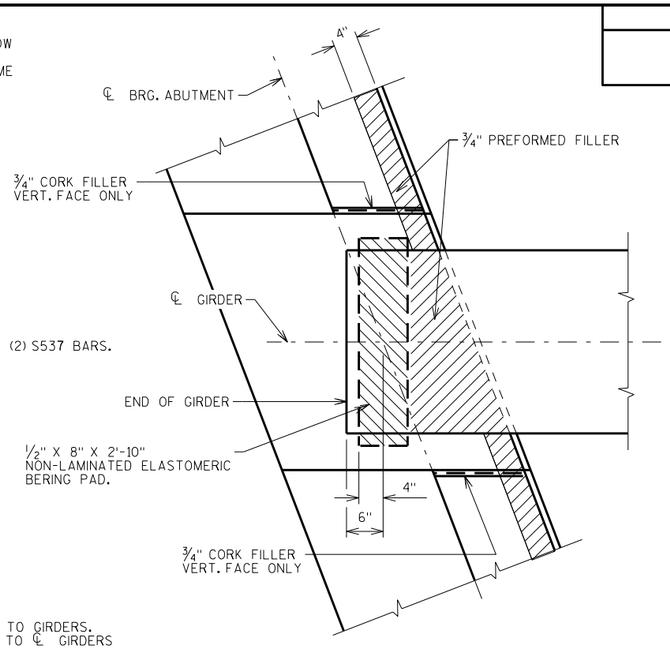
BUNDLE AND TAG EACH SERIES SEPARATELY.



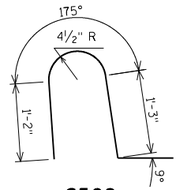
PART. LONGIT. SECTION

◪ BARS PLACED PARALLEL TO GIRDERS. SPACING PERPENDICULAR TO ℄ GIRDERS

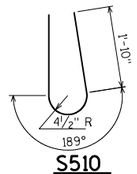
* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS



ABUTMENT BEARING PAD DETAIL



S508



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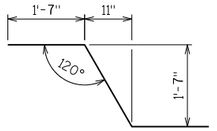
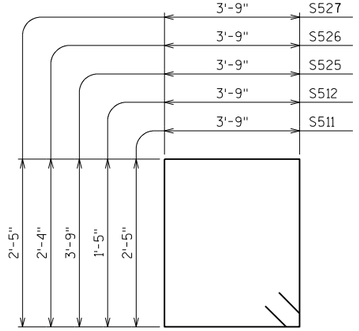
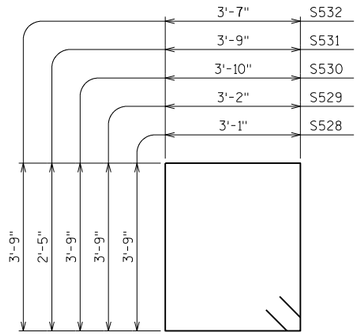


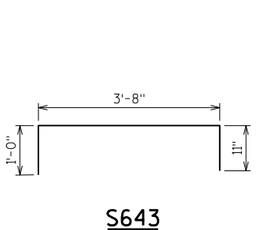
SS901



S511, S512, S525, S526, S527



S528, S529, S530, S531, S532



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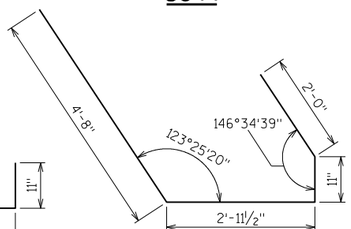
S643



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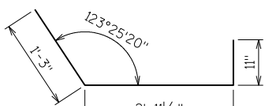

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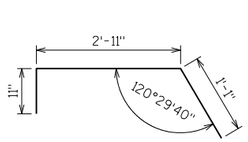

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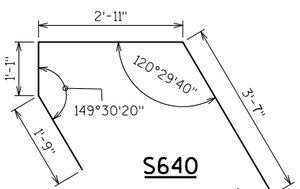

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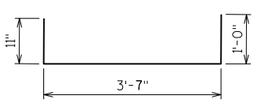

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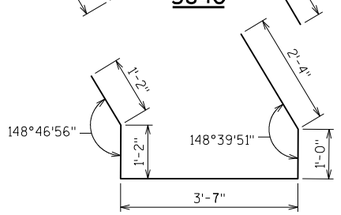

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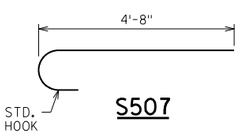

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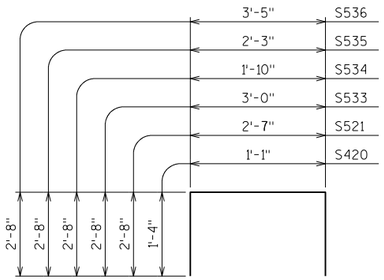


S420, S521, S533, S534, S535, S536

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

DRAWN BY SEW | PLANS CK'D.

SUPERSTRUCTURE BAR DETAILS

SHEET 14

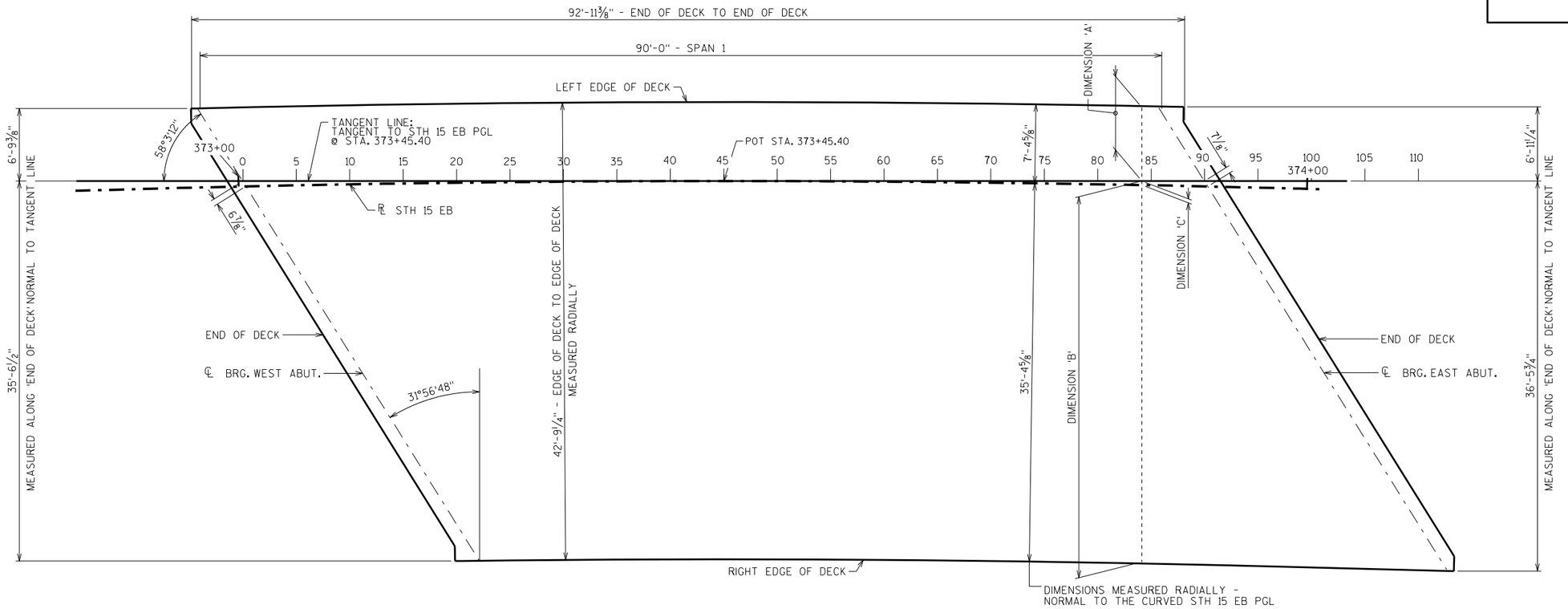
SCALE = 1.00

8

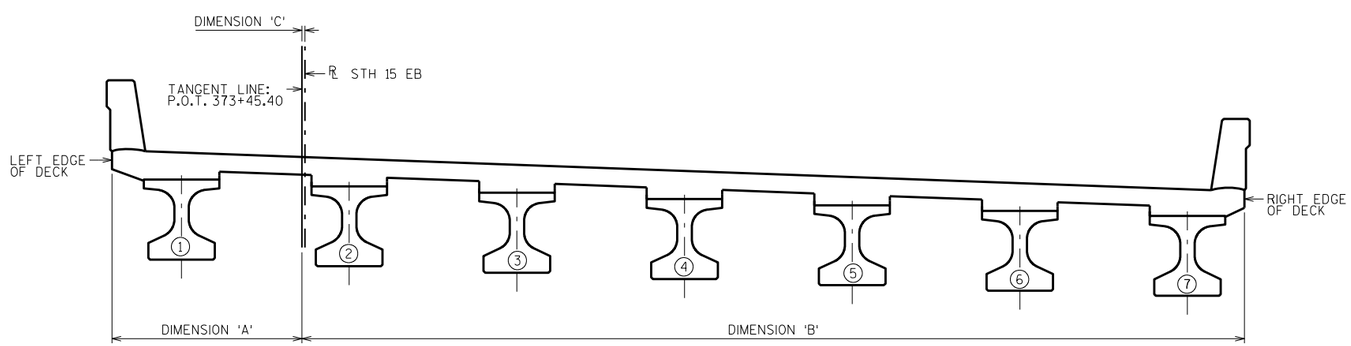
8

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'-10 3/4"	——	6"
5	6'-11 7/8"	——	4 3/4"
10	7'-1"	——	3 5/8"
15	7'-2"	——	2 5/8"
20	7'-2 3/4"	35'-6 1/2"	1 7/8"
25	7'-3 1/2"	35'-5 7/8"	1 1/8"
30	7'-4"	35'-5 1/4"	5/8"
35	7'-4 3/8"	35'-4 7/8"	1/4"
40	7'-4 1/2"	35'-4 3/4"	1/8"
45	7'-4 5/8"	35'-4 5/8"	0"
50	7'-4 1/2"	35'-4 3/4"	1/8"
55	7'-4 3/8"	35'-4 7/8"	1/4"
60	7'-4"	35'-5 1/4"	5/8"
65	7'-3 1/2"	35'-5 7/8"	1 1/8"
70	7'-2 3/4"	35'-6 1/2"	1 7/8"
75	7'-2"	35'-7 3/8"	2 5/8"
80	7'-1"	35'-8 1/4"	3 5/8"
85	6'-11 7/8"	35'-9 3/8"	4 3/4"
90	——	35'-10 3/4"	6"
95	——	36'-0 1/8"	7 3/8"
100	——	36'-1 5/8"	8 7/8"
105	——	36'-3 1/4"	10 3/8"
110	——	36'-4 3/4"	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.

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.

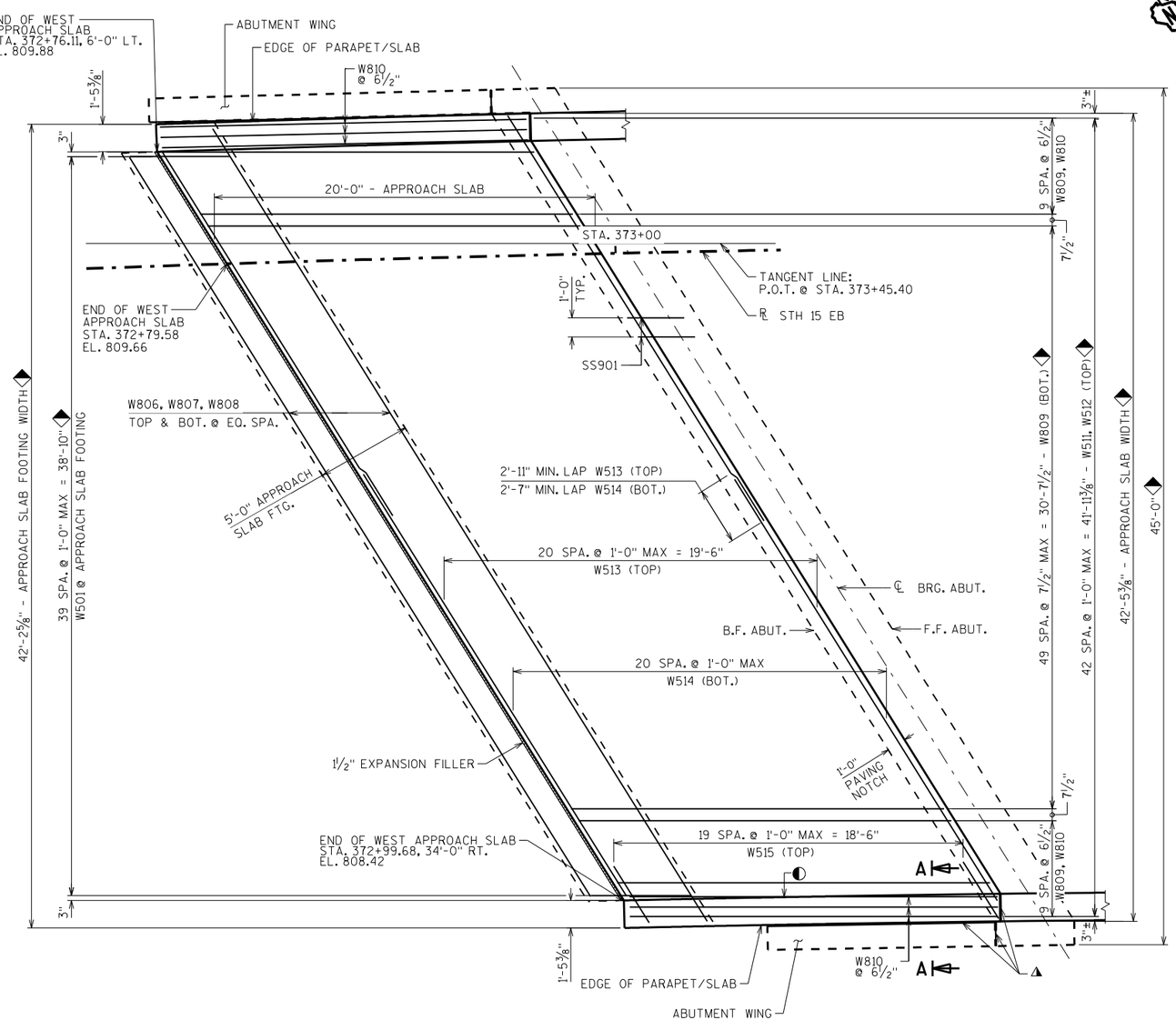
DECK LAYOUT

SHEET 15

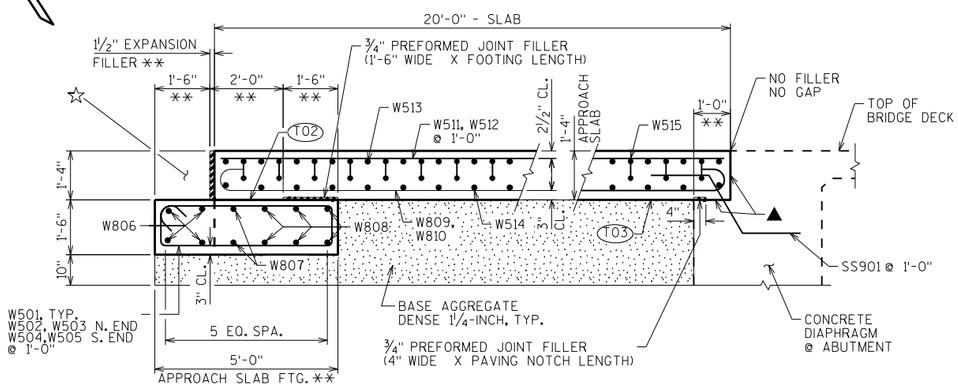
SCALE = 5.50

STATE PROJECT NUMBER

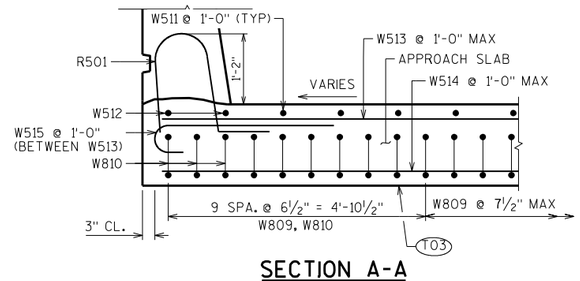
1146-75-71



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	PLANS CK'D.
SEW	

W. STRUCTURAL APPROACH SLAB

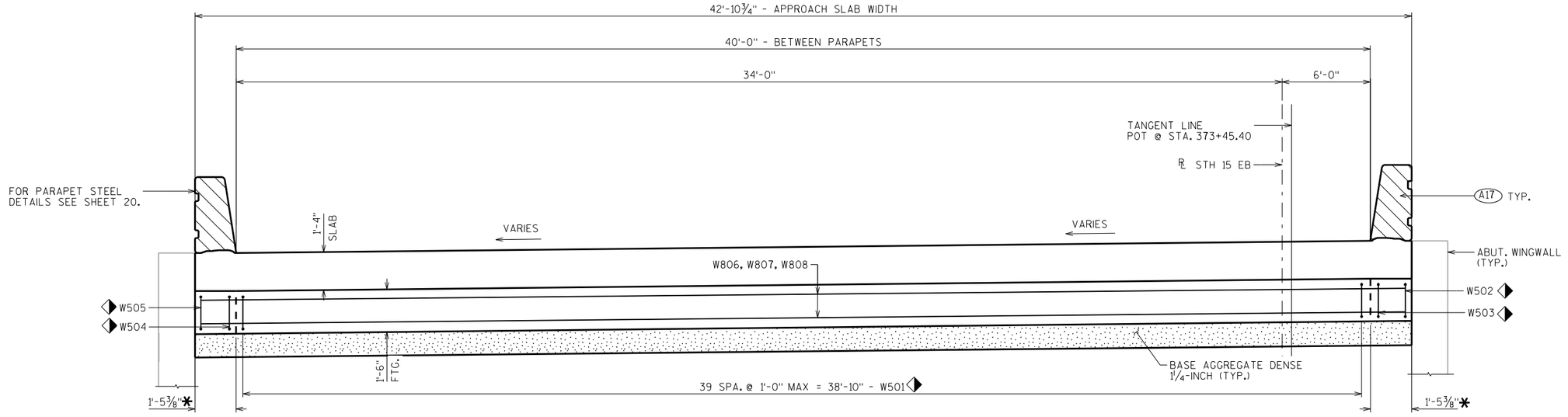
SHEET 16

SCALE = 3.50

8

8

STATE PROJECT NUMBER
1146-75-71



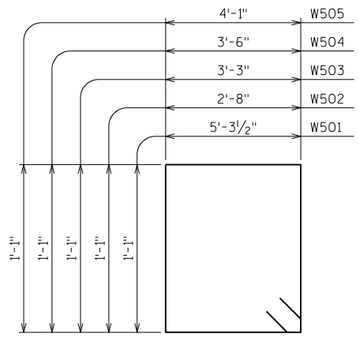
CROSS SECTION THRU ROADWAY - LOOKING WEST

(MEASUREMENTS TAKEN NORMAL TO ℄ STH 15 EB, SHOWING FOOTING STEEL ONLY)

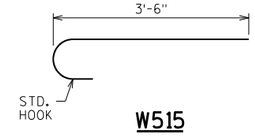
BILL OF BARS

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



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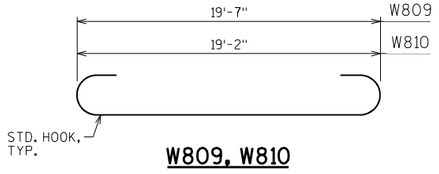


W809, W810

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.

W. STRUCT. APP. SLAB DETAILS

SHEET 17

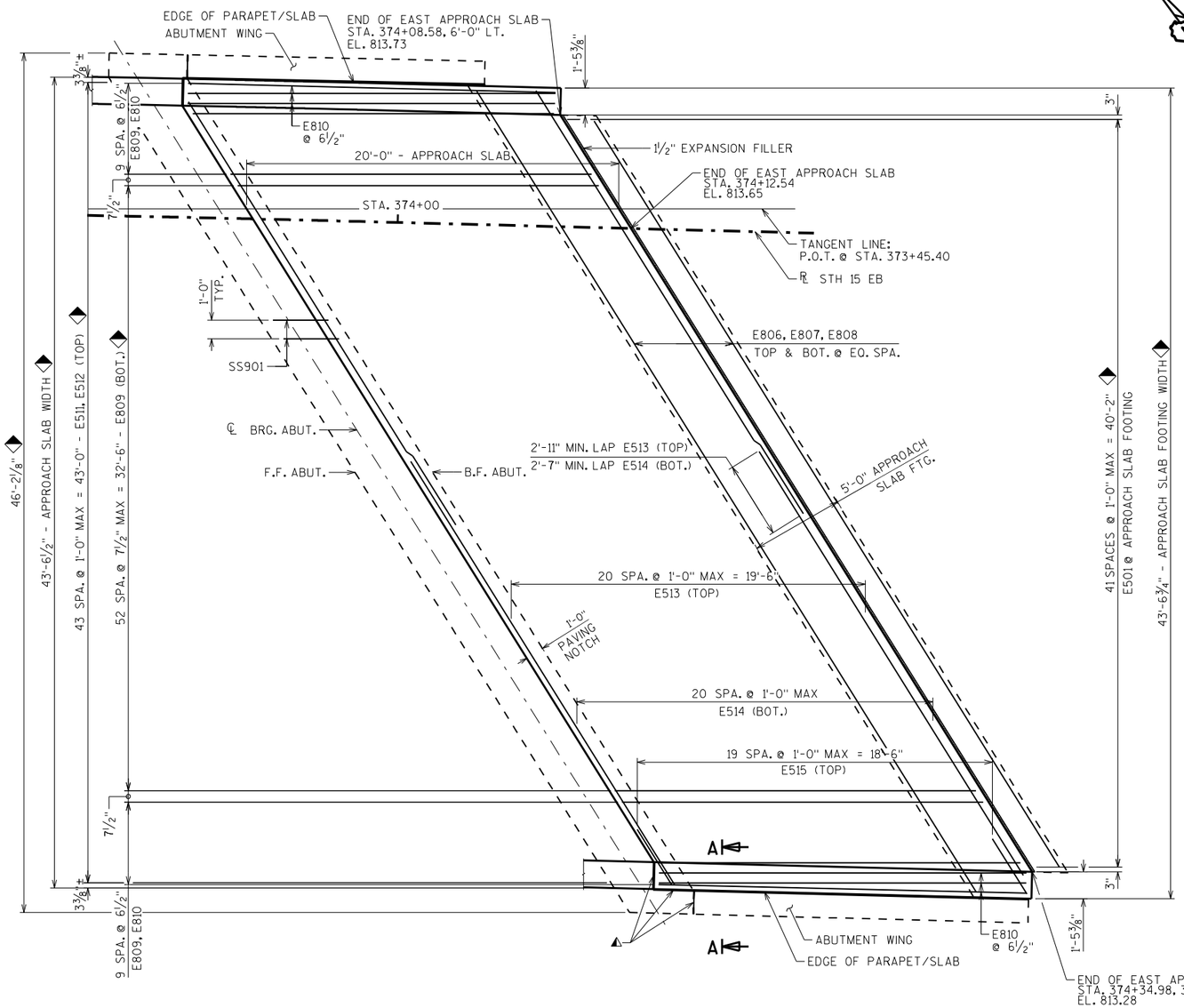
SCALE = 3.00

8

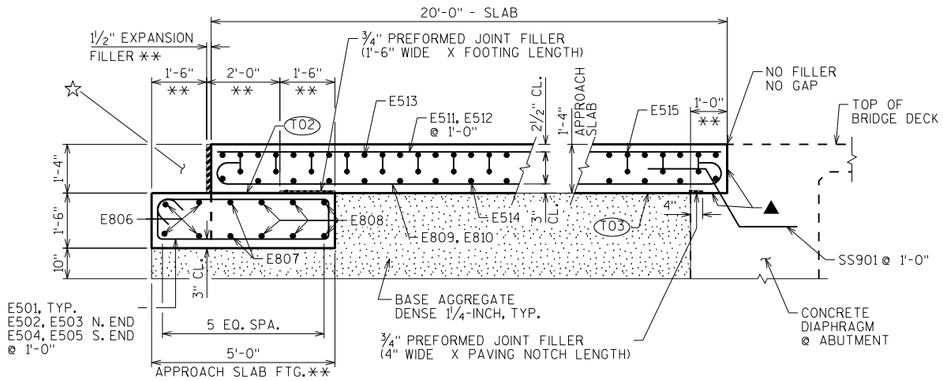
8

STATE PROJECT NUMBER

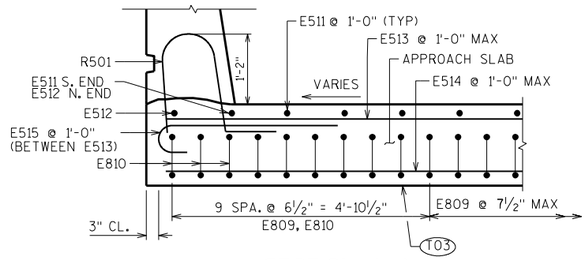
1146-75-71



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 1/2" FILLER WITH NON-STAINING, GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" 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.

E. STRUCTURAL APPROACH SLAB

SHEET 18

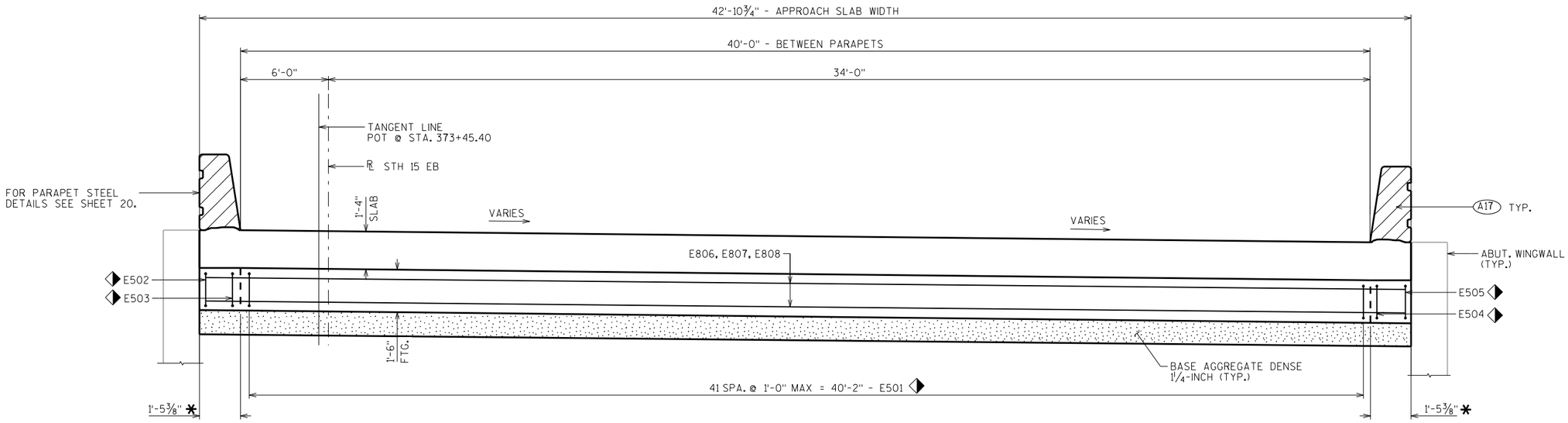
SCALE = 3.50

8

8

STATE PROJECT NUMBER

1146-75-71



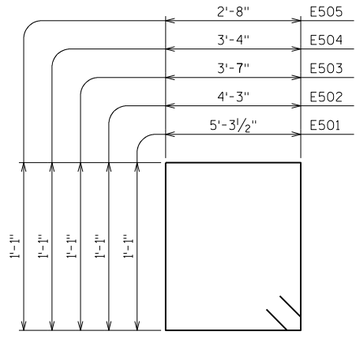
CROSS SECTION THRU ROADWAY - LOOKING EAST

(MEASUREMENTS TAKEN NORMAL TO ℄ STH 15 EB, SHOWING FOOTING STEEL ONLY)

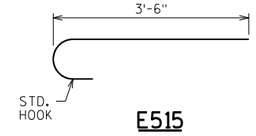
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

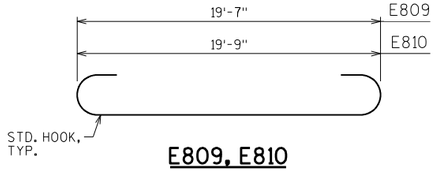
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
E501	X	42	13'-5"	X		APPROACH SLAB FTG. - STIRRUP
E502	X	1	11'-4"	X		APPROACH SLAB FTG. - STIR. NORTH END
E503	X	1	10'-0"	X		APPROACH SLAB FTG. - STIR. NORTH END
E504	X	1	9'-6"	X		APPROACH SLAB FTG. - STIR. SOUTH END
E505	X	1	8'-2"	X		APPROACH SLAB 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.

E. STRUCT. APP. SLAB DETAILS

SHEET 19

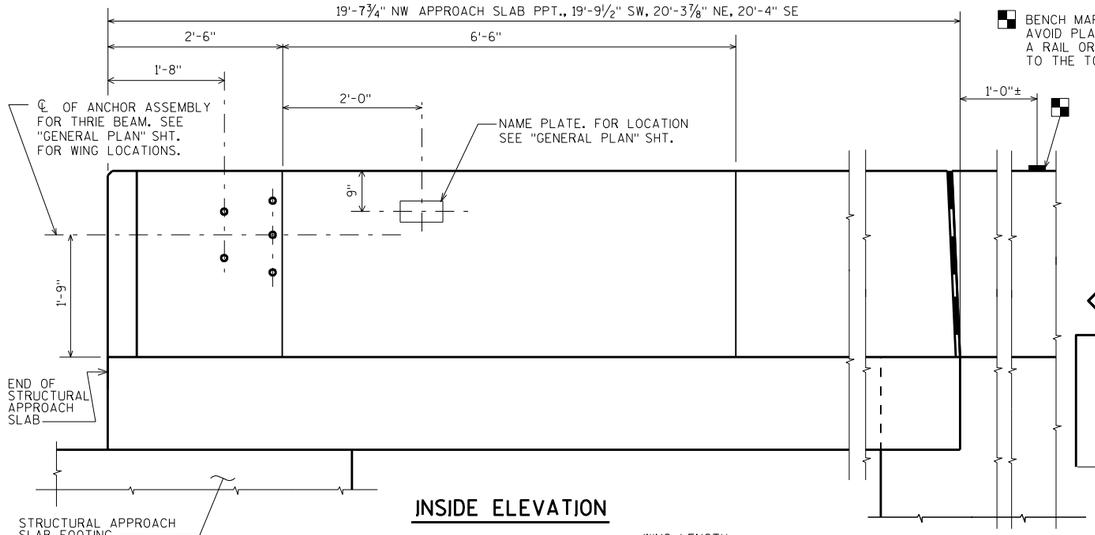
SCALE = 3.00

8

8

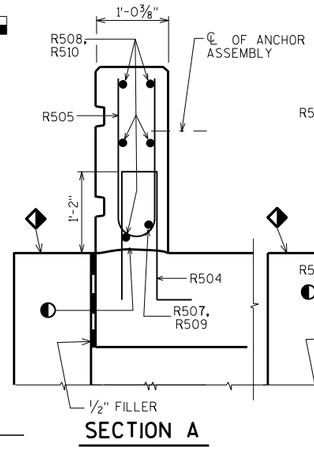
STATE PROJECT NUMBER

1146-75-71

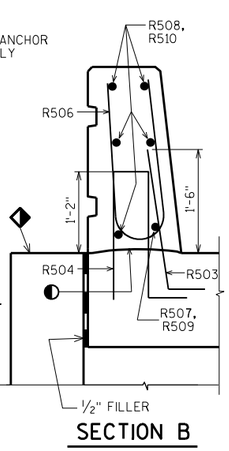


INSIDE ELEVATION

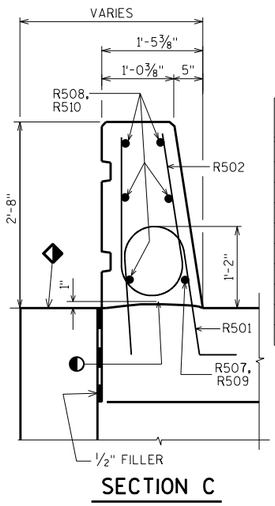
BENCH MARK CAP (WHEN SUPPLIED). AVOID PLACING A BENCH MARK CAP BELOW A RAIL OR FENCE SYSTEM THAT IS ATTACHED TO THE TOP OF THE PARAPET.



SECTION A



SECTION B

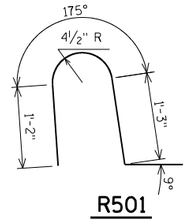


SECTION C

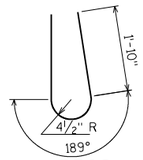
BILL OF BARS

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	5-0	X		PARAPET VERT.
R503	X	24	24	2-9	X		PARAPET VERT.
R504	X	34	34	4-4	X		PARAPET VERT.
R505	X	22	22	4-9	X		PARAPET VERT.
R506	X	12	12	4-10	X		PARAPET VERT.
R507	X	2		19'-3"	X		PARAPET HORIZ.
R508	X	10		19'-3"			PARAPET HORIZ.
R509	X		2	19'-10"	X		PARAPET HORIZ.
R510	X		10	19'-10"			PARAPET HORIZ.



R501



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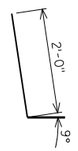

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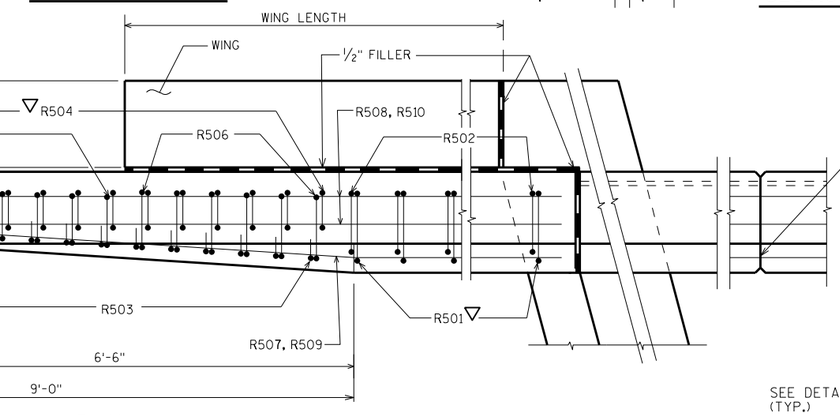
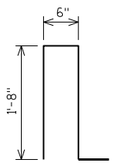
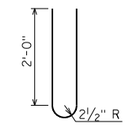


PLAN

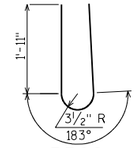
OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF. THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE CONST. JOINT WITH A ¾" - 'V' GROOVE.



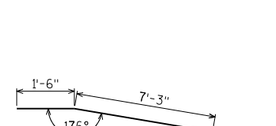
R504



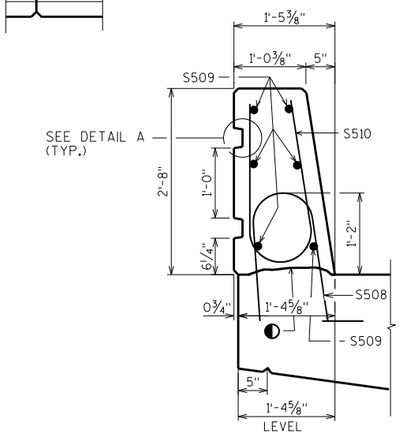
R505



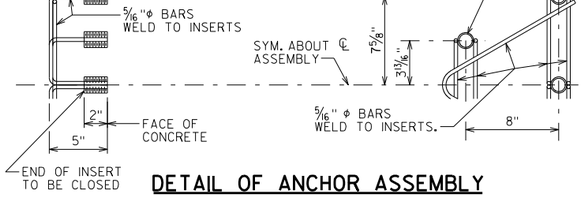
R506



R507, R509



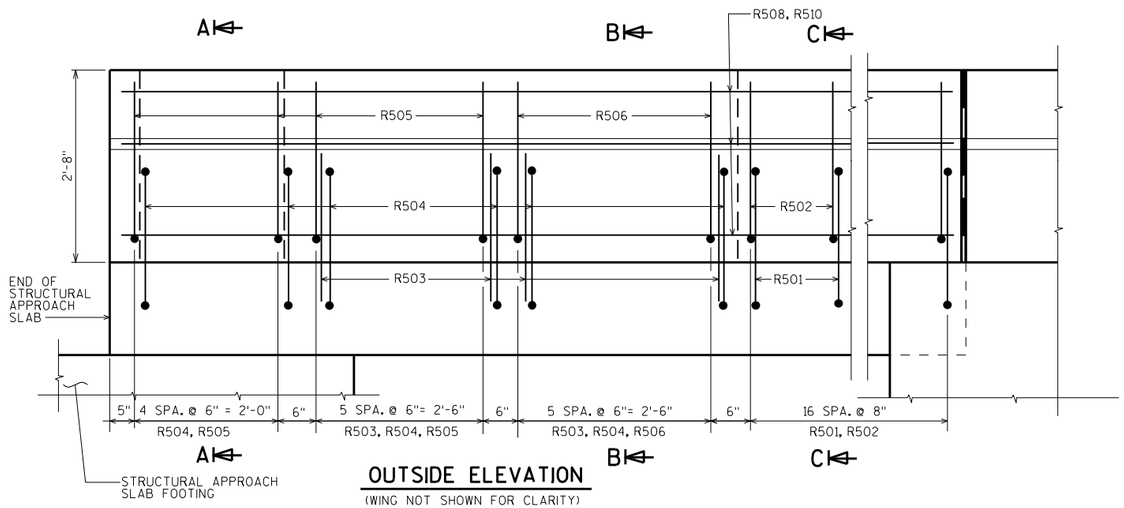
SECTION THRU PARAPET ON BRIDGE



DETAIL OF ANCHOR ASSEMBLY

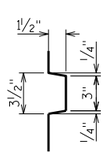
NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.



OUTSIDE ELEVATION

(WING NOT SHOWN FOR CLARITY)



DETAIL A

◆ SLOPE FOR DRAINAGE

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

▽ R501 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-44-291

DRAWN BY SEW | PLANS CK'D.

MODIFIED SINGLE SLOPE PARAPET 32SS WITH STRUCTURAL APPROACH SLAB

SHEET 20

SCALE = 1:1

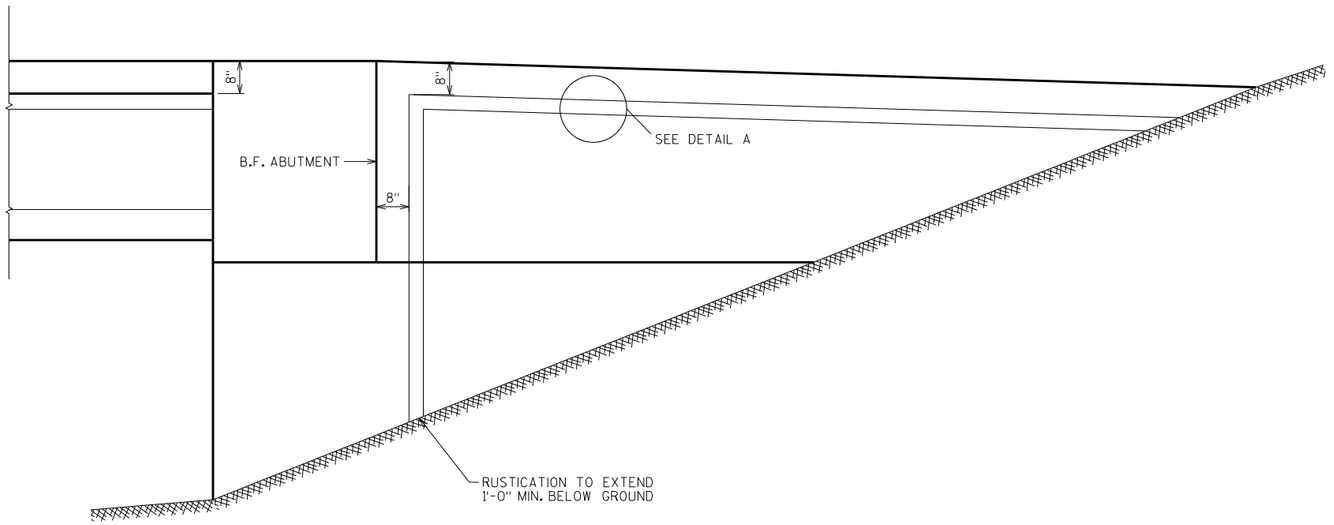
8

8

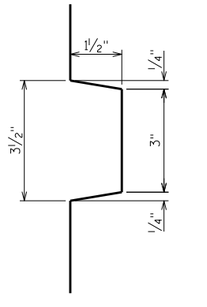
STATE PROJECT NUMBER

1146-75-71

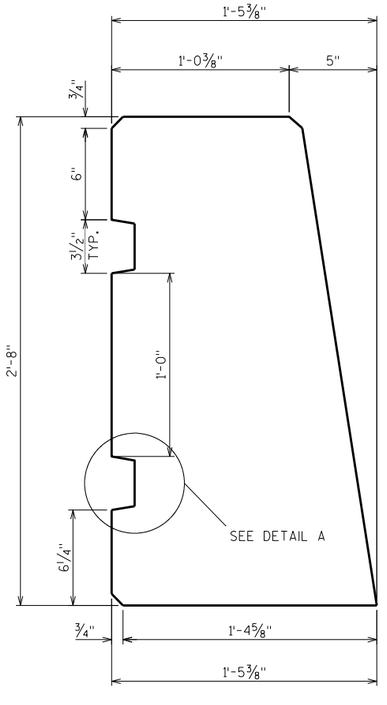
DOUBLE RUSTICATION LINES
MODIFIED 'SINGLE SLOPE PARAPET 32SS'
(AREA = 3.25 SF, WEIGHT = 488 LB/FT.)



WING WALL



DETAIL A



MODIFIED 32SS PARAPET

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-291

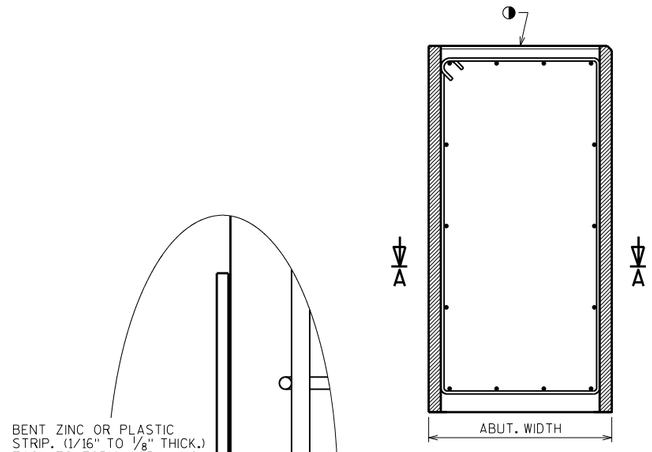
DRAWN BY SEW | PLANS CK'D.

AESTHETIC DETAILS

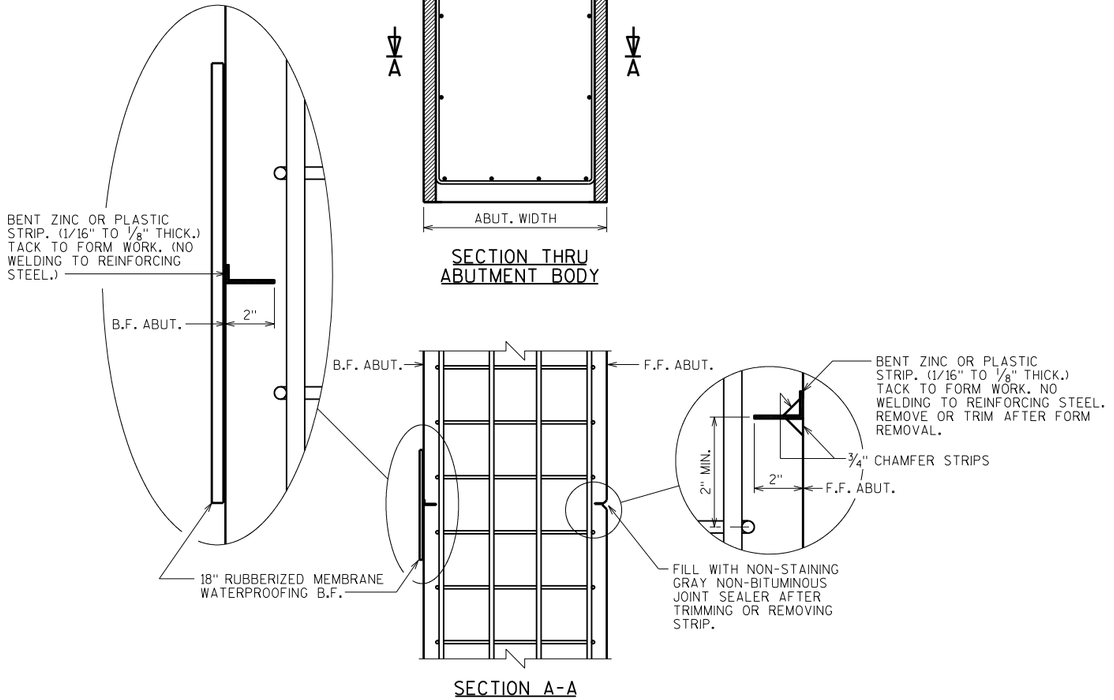
SHEET 21

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.

ALTERNATE CONSTRUCTION JOINT

SHEET 22

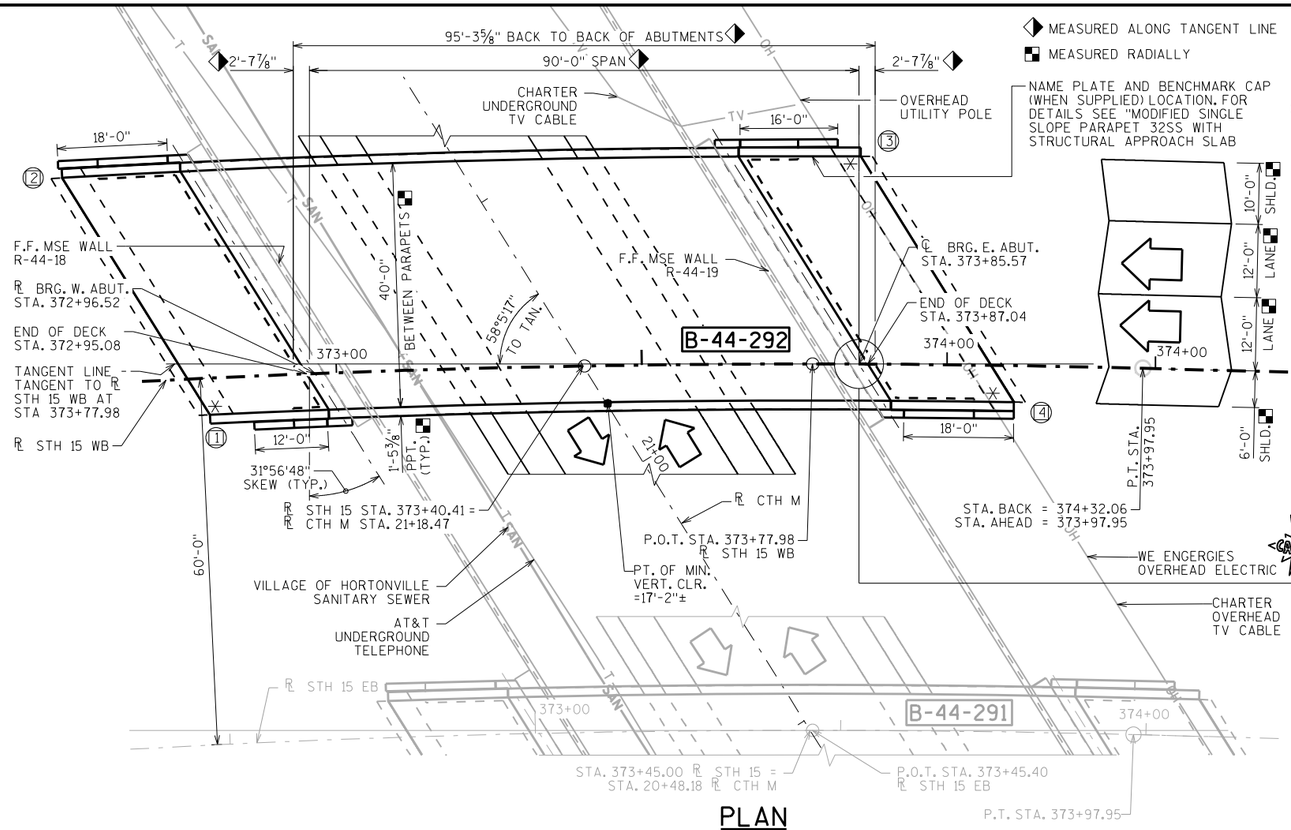
SCALE = 1.00

8

8

STATE PROJECT NUMBER

1146-75-71



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): 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.

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"

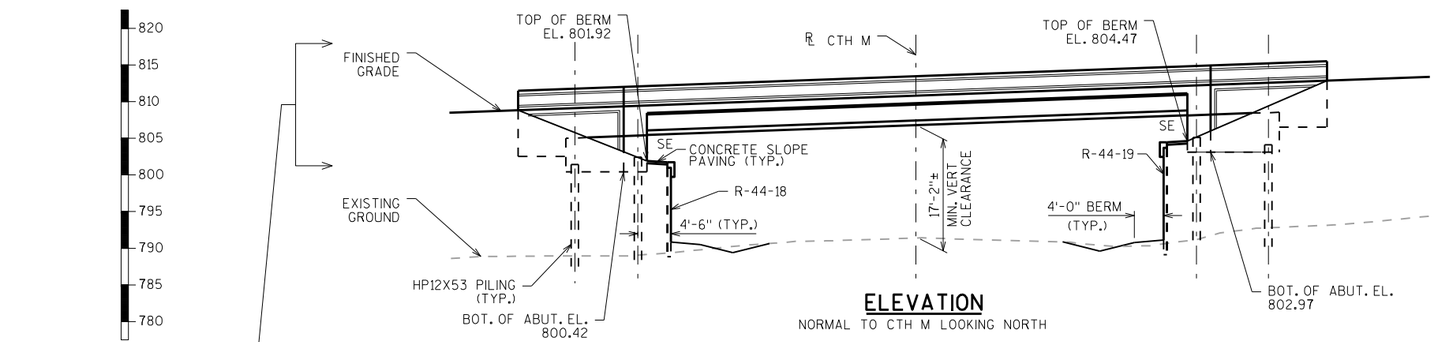
TRAFFIC VOLUME

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.

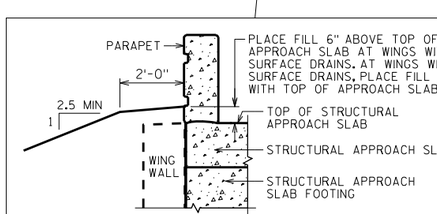
CURVE DATA

STH 15: EB-12	STH 15: WB-12
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)

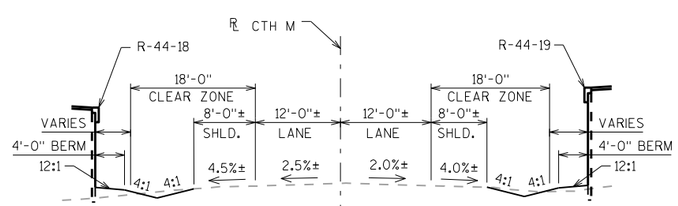


ELEVATION

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 32SS WITH STRUCTURAL APPROACH SLAB
21. AESTHETIC DETAILS
22. ALTERNATE CONSTRUCTION JOINT

STRUCTURE DESIGN CONTACTS:

STACIE WEIS (608) 261-6109
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-44-292

STH 15 WB 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	

GENERAL PLAN

SHEET 1 OF 22

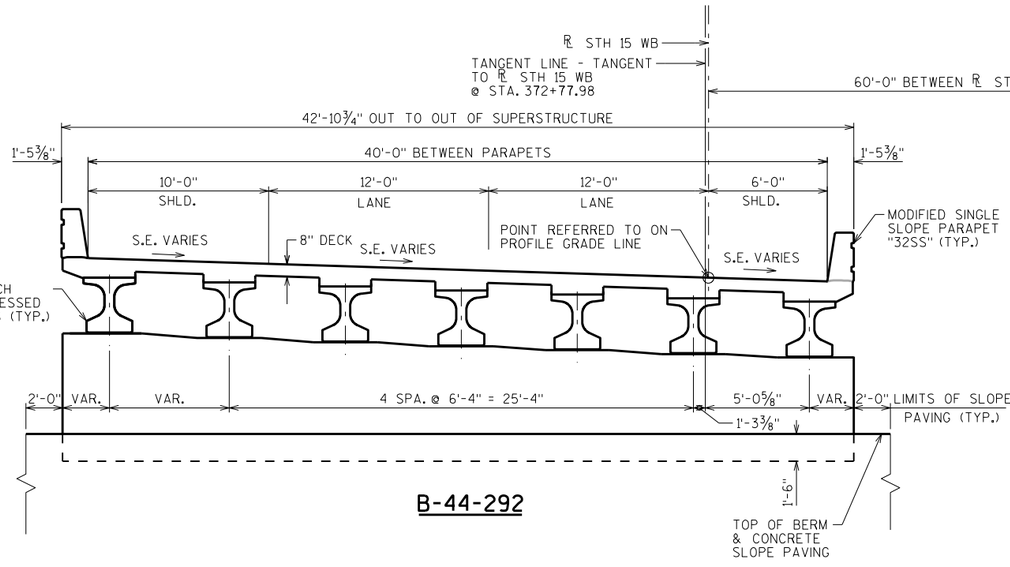
I.D. 1146-75-00A DATE: DEC. 2016

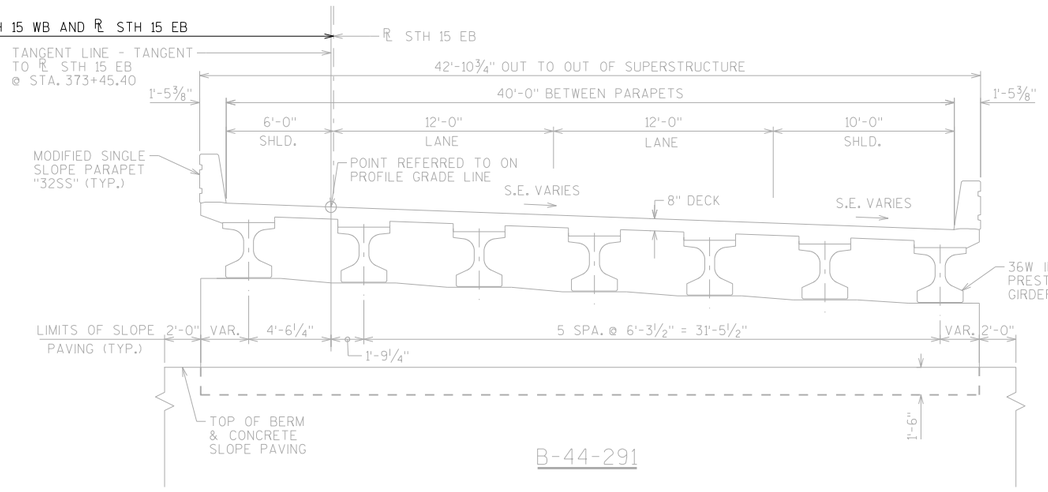
SCALE = 12.00

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 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.

CROSS SECTION

SHEET 2

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.

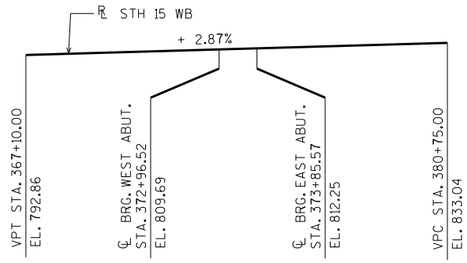
THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.

THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF B-44-292 WITH RETAINING WALLS R-44-18 AND R-44-19.

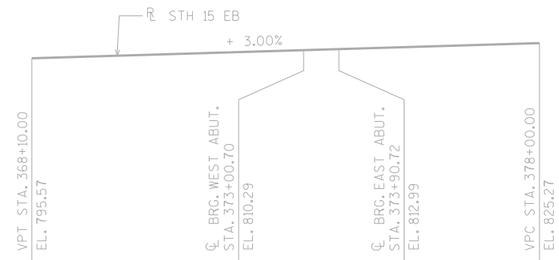
■ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

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-44-292	LS	———	———	———	———	———	1
210.1500	BACKFILL STRUCTURE TYPE A	TON						
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON						
502.0100	CONCRETE MASONRY BRIDGES	CY						
502.3200	PROTECTIVE SURFACE TREATMENT	SY			———	———		
502.3210	PIGMENTED SURFACE SEALER	SY						
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF		———	———	———	———	
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	———	———			———	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB						
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB		———	———	———	———	
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH		———	———	———	———	
506.4000	STEEL DIAPHRAGMS B-44-292	EACH		———	———	———	———	
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	———	———			———	
550.0500	PILE POINTS	EACH	———	———			———	
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF	———	———			———	
604.0400	SLOPE PAVING CONCRETE	SY	———	———			———	
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	———	———			———	
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	———		———	———		
			———	———	———	———	———	
	NON-BID ITEMS		———	———	———	———	———	
	FILLER	SIZE	———	———	———	———	———	½", ¾" &1½"



PROFILE GRADE LINE STH 15 WB



PROFILE GRADE LINE STH 15 EB

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

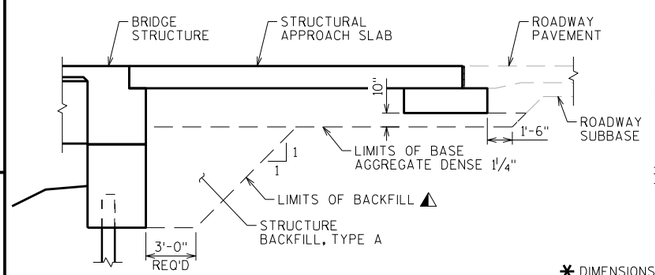
** PT STA. EQN: STA. BACK = 374+32.06; STA. AHEAD = 373+97.95

NOTE: SUPER ELEVATION INFORMATION PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

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%

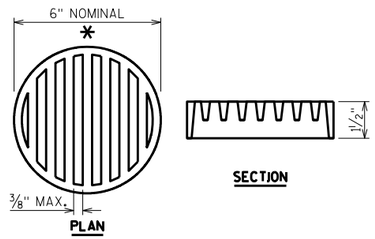
NOTE: SUPER ELEVATION INFORMATION PROVIDED FOR INFORMATIONAL PURPOSES ONLY.



TYPICAL SECTION THRU ABUTMENT

(A1 ABUTMENT WITH STRUCTURAL APPROACH)

◭ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

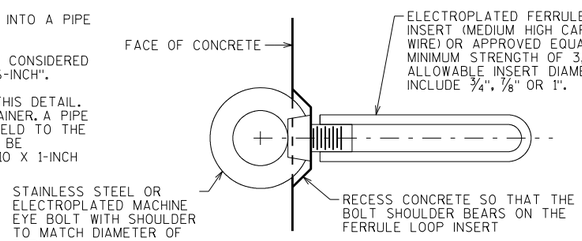


RODENT SHIELD DETAIL

* 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.



EYE BOLT DETAIL

COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".

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.

QUANTITIES

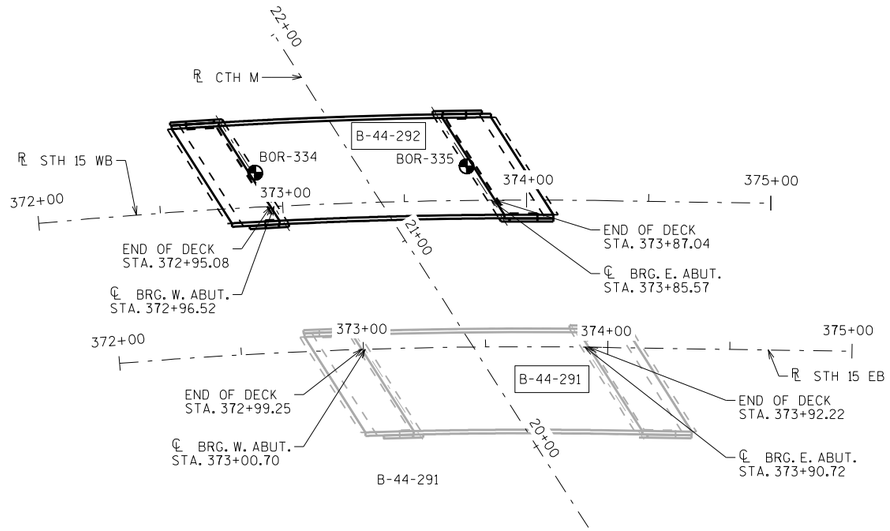
SHEET 3

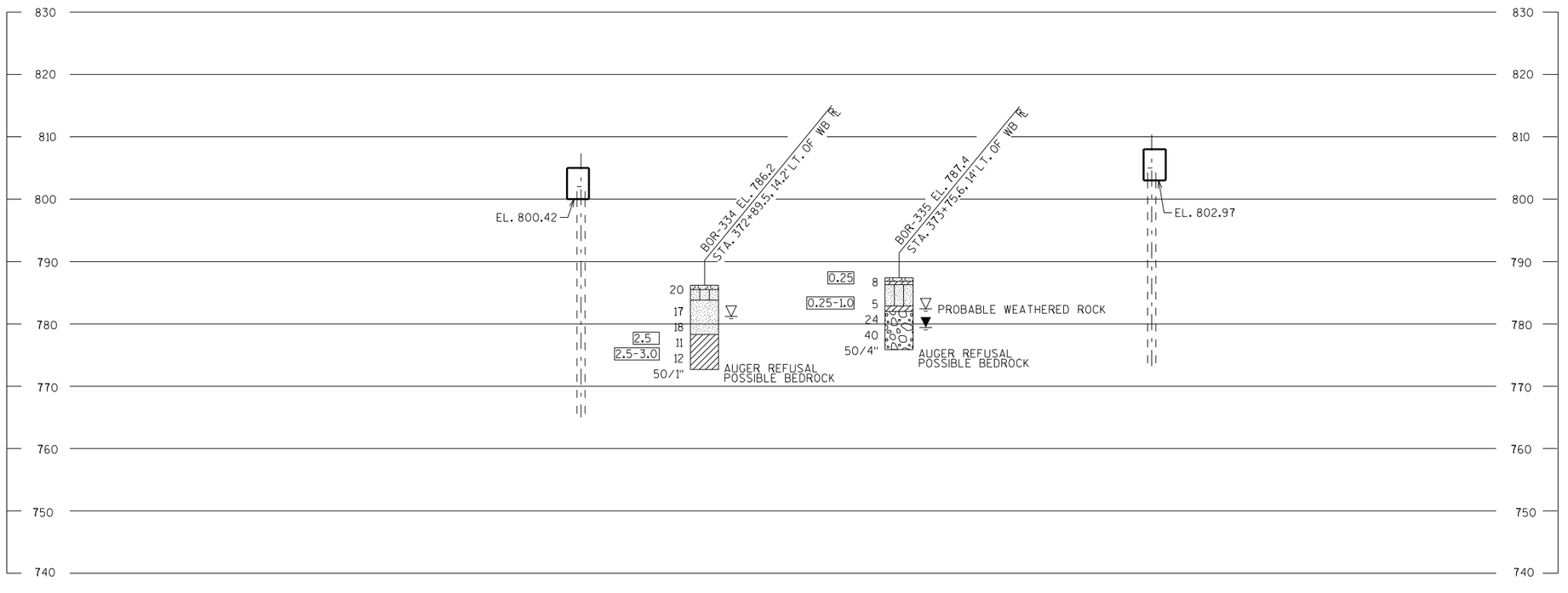
8

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			





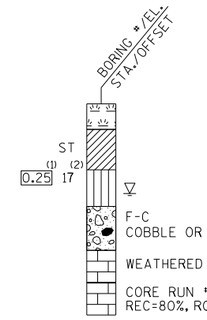
STATE PROJECT NUMBER

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.

SUBSURFACE EXPLORATION

SHEET 4

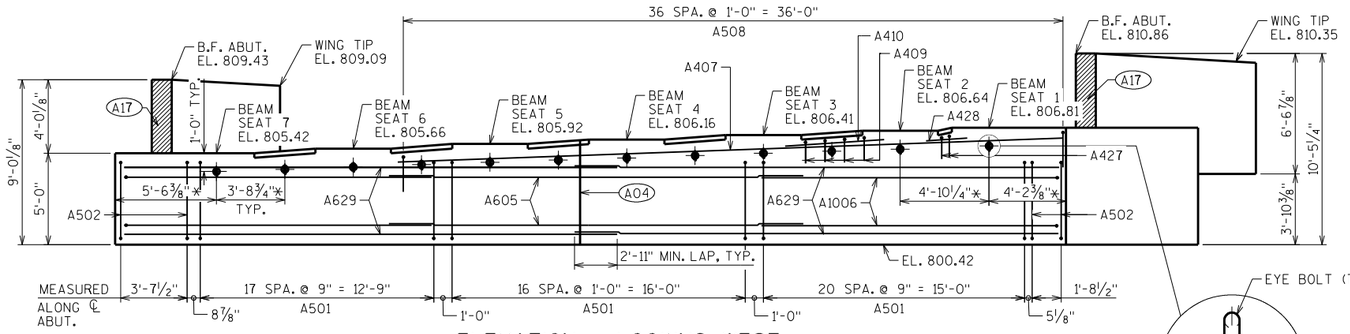
SCALE = 30.00

8

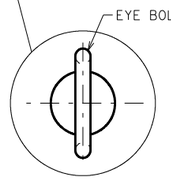
8

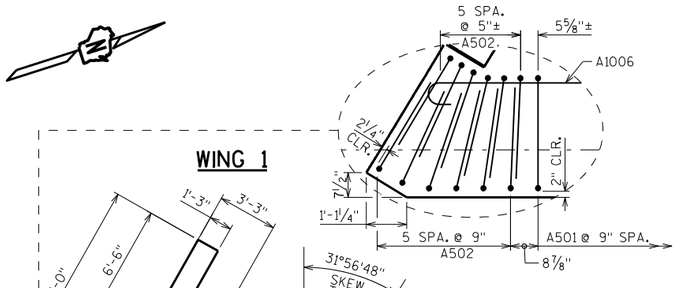
STATE PROJECT NUMBER

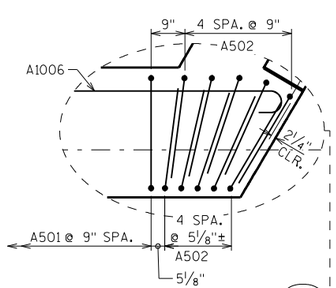
1146-75-71



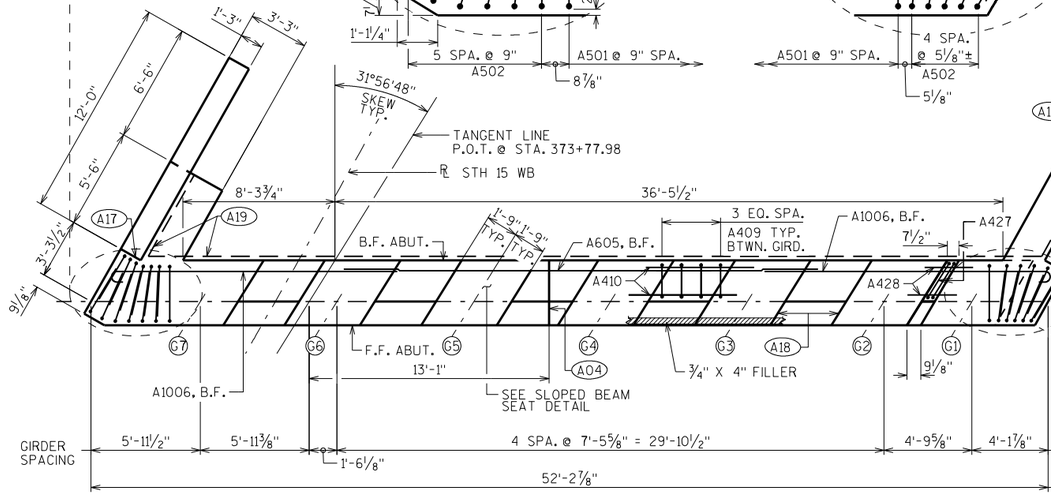
ELEVATION - LOOKING WEST





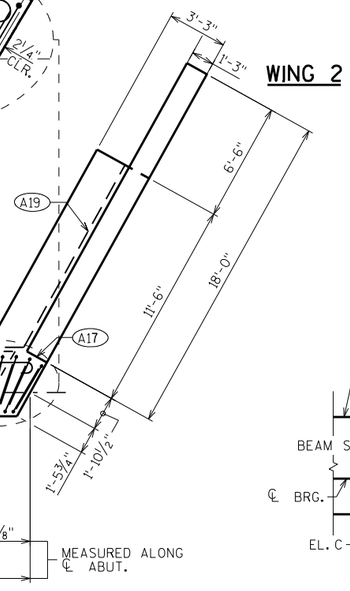


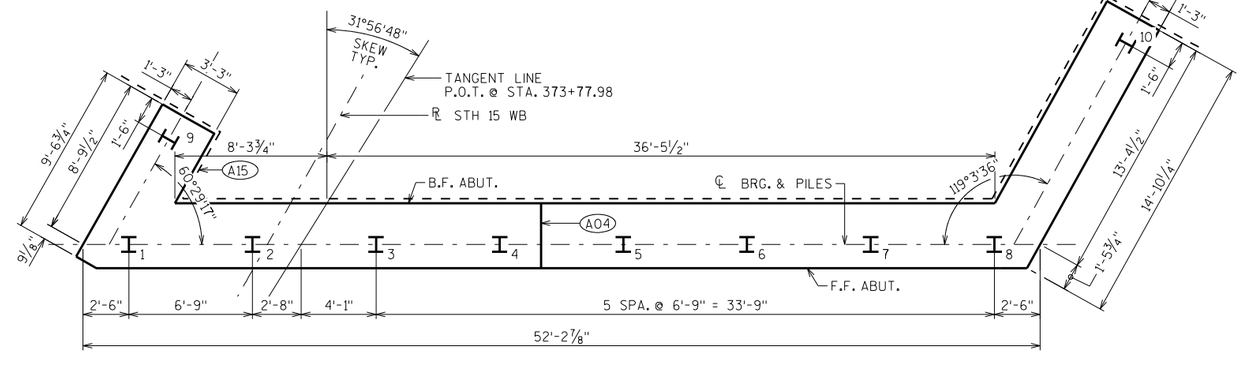
WING 1



PLAN

WING 2

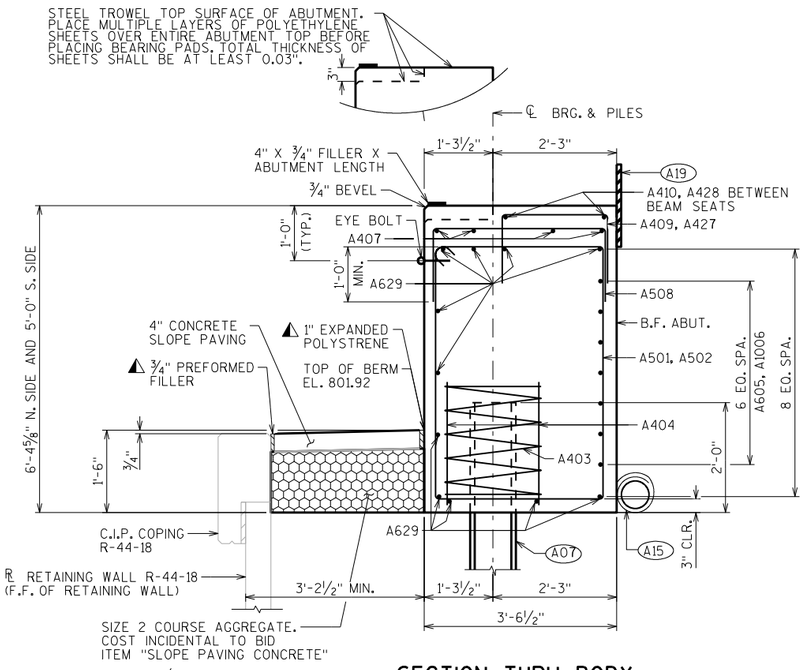




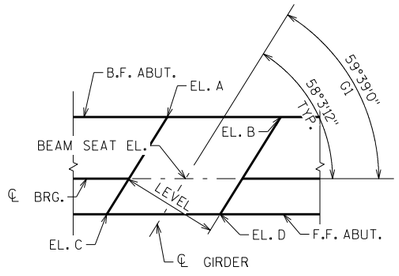
PILE PLAN

* DIMENSION MEASURED ALONG F.F. OF ABUT.

NOTE: FOR EYE BOLT DETAIL SEE "QUANTITIES" SHEET.



SECTION THRU BODY



SLOPED BEAM SEAT

BEAM SEAT ELEVATIONS

LOCATION	EL. A	EL. B	EL. C	EL. D
GIRDER 1	-0.04	-0.10	0.07	0.01
GIRDER 2	-0.04	-0.10	0.07	0.01
GIRDER 3	-0.04	-0.10	0.07	0.01
GIRDER 4	-0.04	-0.10	0.07	0.01
GIRDER 5	-0.04	-0.10	0.07	0.01
GIRDER 6	-0.04	-0.10	0.07	0.01
GIRDER 7	-0.04	-0.10	0.07	0.01

(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.

(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 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

DRAWN BY SEW | PLANS CK'D.

WEST ABUTMENT

SHEET 5

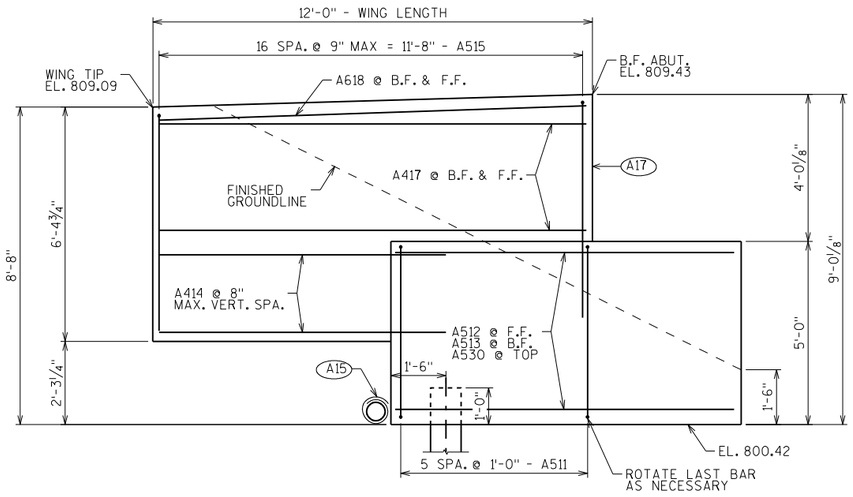
SCALE = 4.00

8

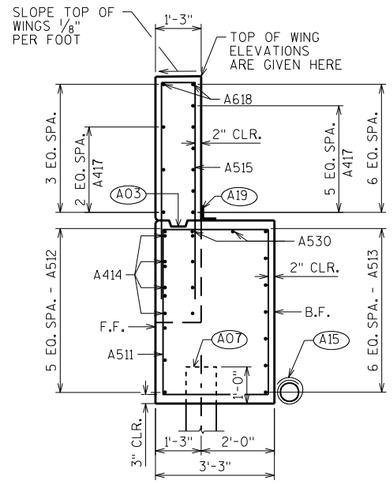
8

STATE PROJECT NUMBER

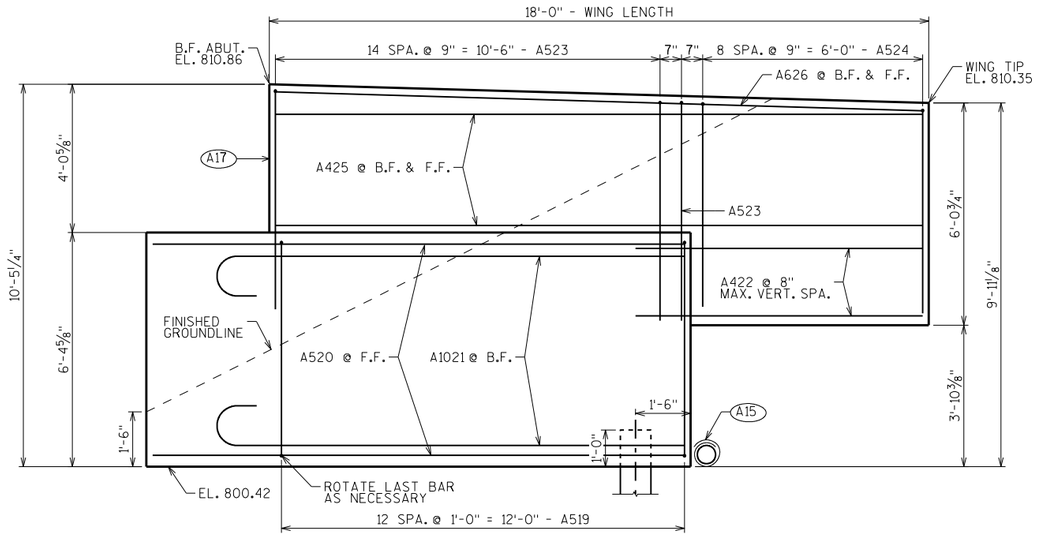
1146-75-71



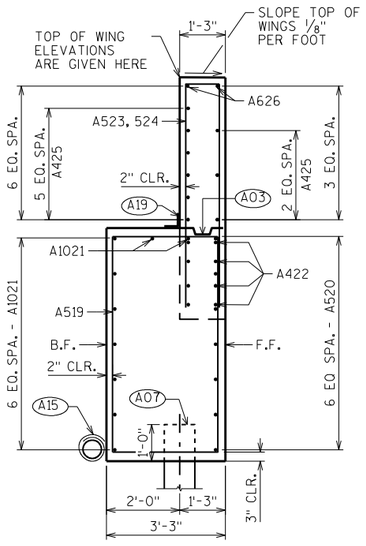
WING 1 ELEVATION



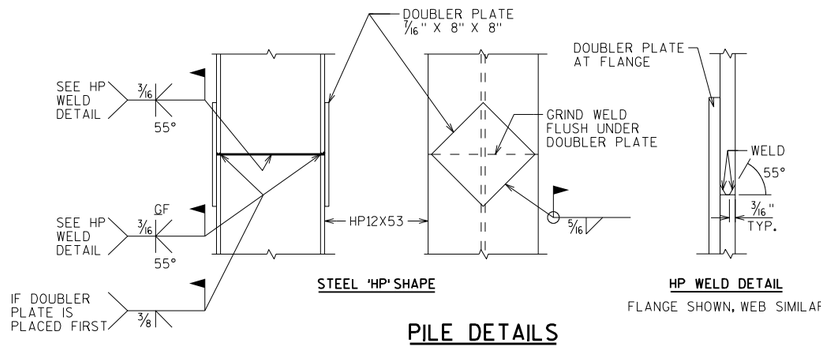
SECTION THRU WING 1



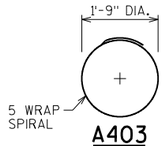
WING 2 ELEVATION



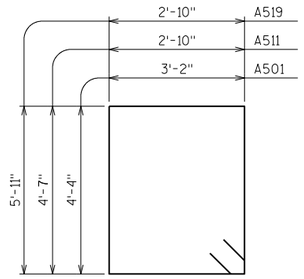
SECTION THRU WING 2



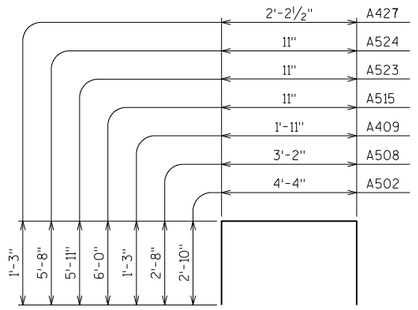
PILE DETAILS



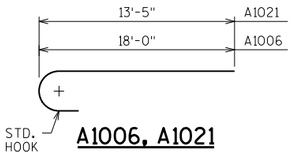
A403



A501, A511, A519



A502, A508, A409, A515 A523, A524, A427



A1006, A1021

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		22	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	21'-10"			BODY - HORIZONTAL - B.F.
A1006		14	19'-5"	X		BODY - HORIZONTAL - B.F. - HOOK
A407		4	36'-4"			BODY - HORZ - NORTH END ONLY
A508		37	8'-3"	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	6	15'-6"	X		WING 1 - VERTICAL - STIRRUPS
A512	X	6	9'-0"			WING 1 - HORIZONTAL - F.F.
A513	X	7	6'-1"			WING 1 - HORIZONTAL - B.F.
A414	X	8	7'-9"			WING 1 - HORIZONTAL
A515	X	17	12'-8"	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	13	18'-2"	X		WING 2 - VERTICAL - STIRRUPS
A520	X	7	14'-5"			WING 2 - HORIZONTAL - F.F.
A1021	X	9	14'-10"	X		WING 2 - HORIZONTAL - B.F. - HOOK
A422	X	8	7'-9"			WING 2 - HORIZONTAL
A523	X	16	12'-6"	X		WING 2 - VERTICAL
A524	X	9	12'-0"	X		WING 2 - VERTICAL
A425	X	9	17'-8"			WING 2 - HORZ - B.F. & F.F.
A626	X	2	17'-8"			WING 2 - HORIZONTAL
A427		2	4'-7"	X		BODY - B/W BEAM SEATS 1& 2
A428		2	2'-10"			BODY - B/W BEAM SEATS 1& 2
A629		22	27'-6"			BODY - HORIZONTAL
A530	X	2	7'-4"			WING 1 - 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.

(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.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D.

WEST ABUTMENT DETAILS

SHEET 6

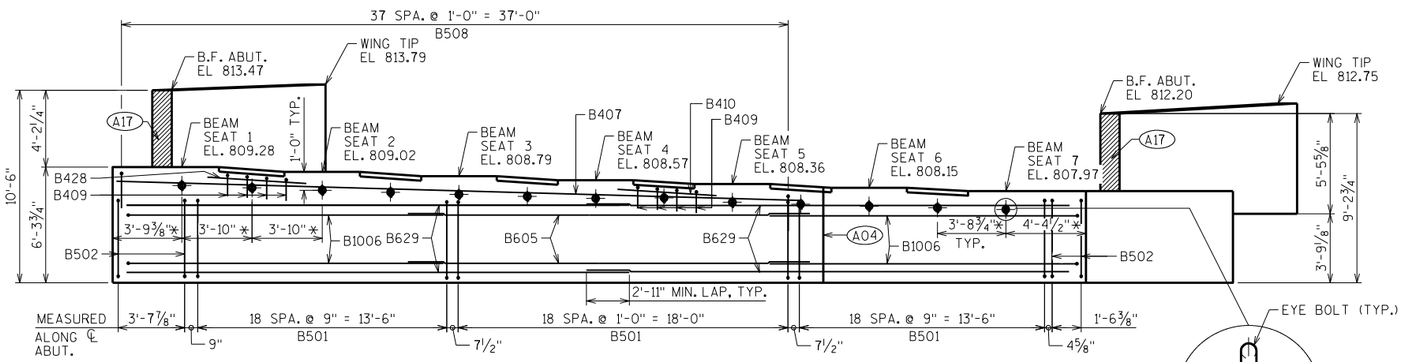
SCALE = 2.00

8

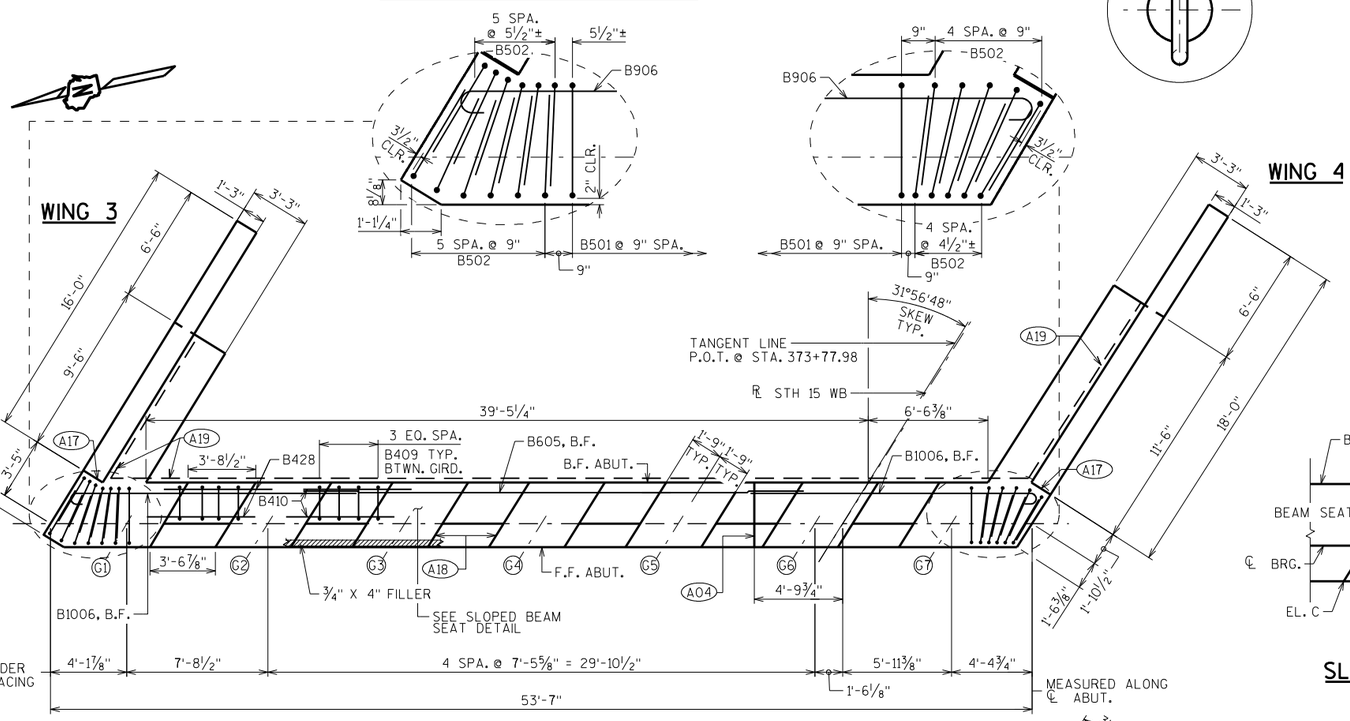
8

STATE PROJECT NUMBER

1146-75-71

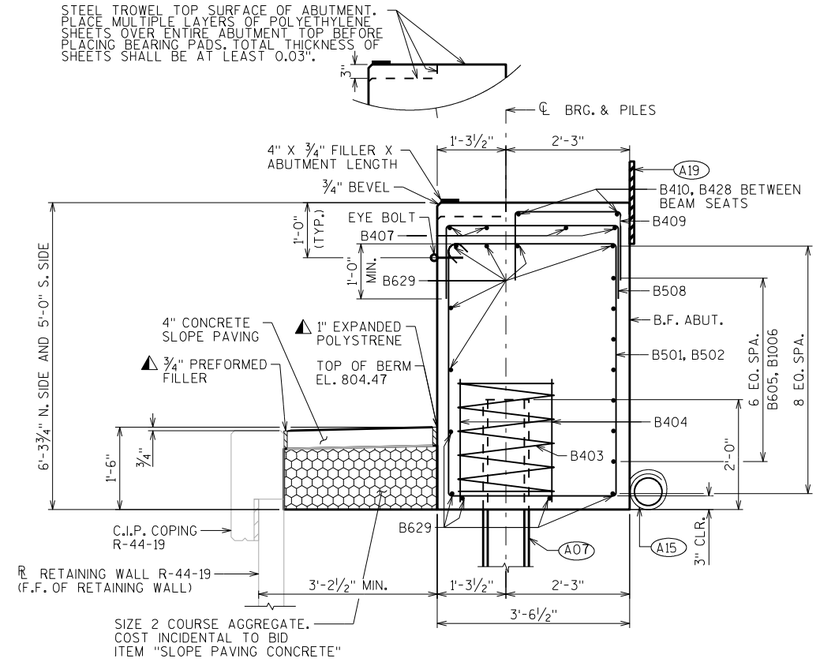


ELEVATION - LOOKING EAST

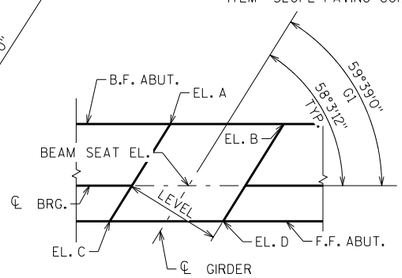


* DIMENSION MEASURED ALONG F.F. OF ABUT.

NOTE: FOR EYE BOLT DETAIL SEE "QUANTITIES" SHEET.



SECTION THRU BODY



SLOPED BEAM SEAT

BEAM SEAT ELEVATIONS

LOCATION	EL. A	EL. B	EL. C	EL. D
GIRDER 1	0.04	0.10	-0.07	-0.01
GIRDER 2	0.04	0.10	-0.07	-0.01
GIRDER 3	0.04	0.10	-0.07	-0.01
GIRDER 4	0.04	0.10	-0.07	-0.01
GIRDER 5	0.04	0.10	-0.07	-0.01
GIRDER 6	0.04	0.10	-0.07	-0.01
GIRDER 7	0.04	0.10	-0.07	-0.01

(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.

(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 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

DRAWN BY SEW | PLANS CK'D.

EAST ABUTMENT

SHEET 7

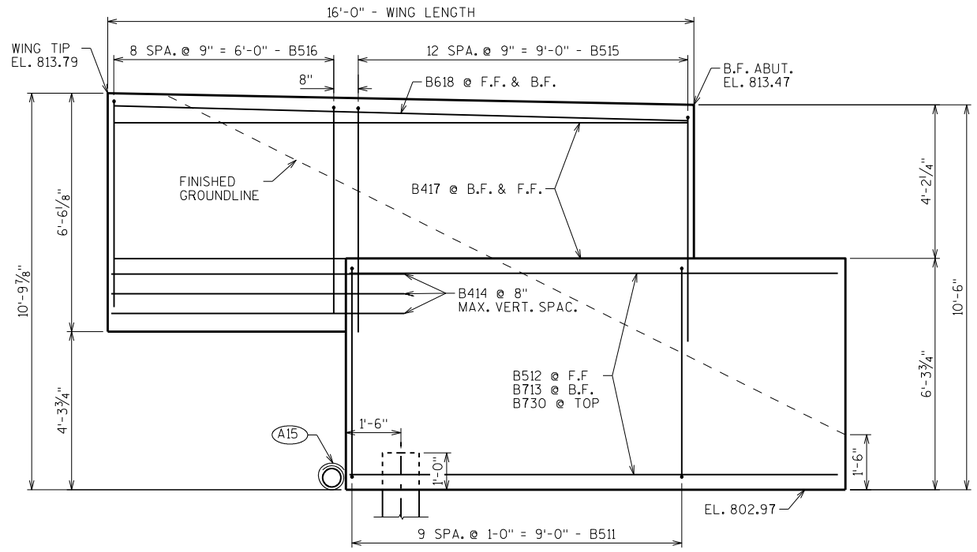
SCALE = 4.00

8

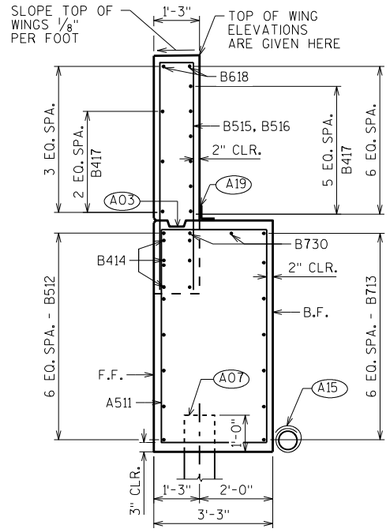
8

STATE PROJECT NUMBER

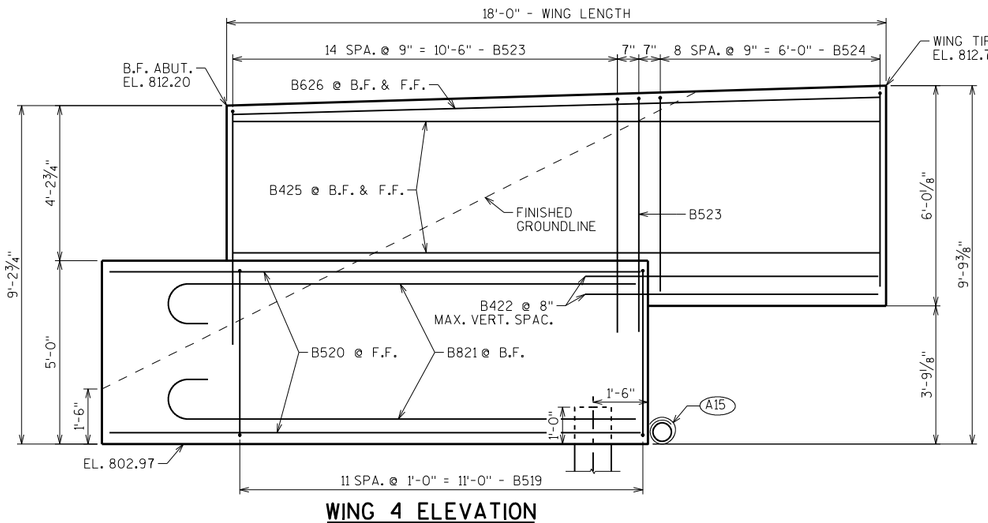
1146-75-71



WING 3 ELEVATION



SECTION THRU WING 3



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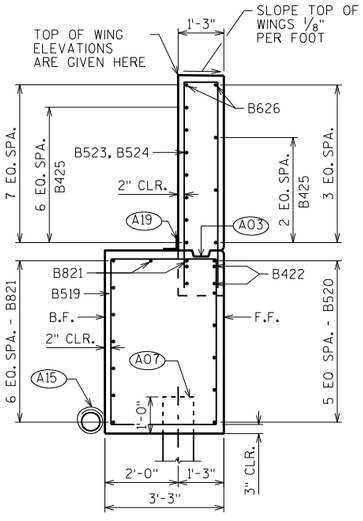

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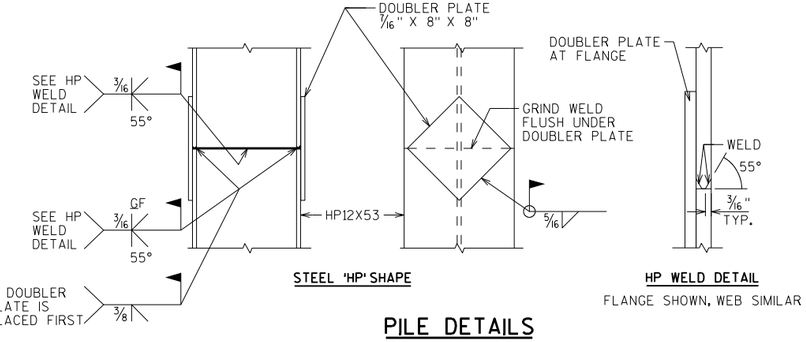
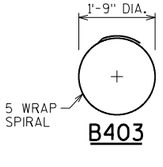


STEEL 'HP' SHAPE

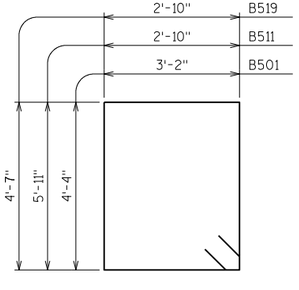
HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

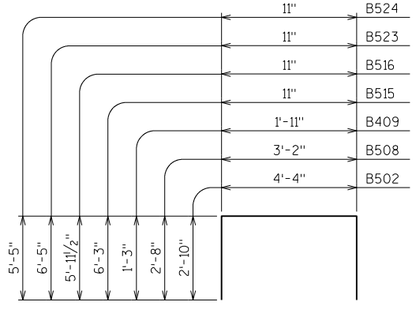
PILE DETAILS



B403



B501, B511, B519



B502, B508, B409 B515, 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'-8"	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'-3"	X		BODY - HORIZONTAL - B.F. - HOOK
B407		4	37'-4"			BODY - HORZ - NORTH END ONLY
B508		38	8'-3"	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'-2"	X		WING 3 - VERTICAL - STIRRUPS
B512	X	7	13'-1"			WING 3 - HORIZONTAL - F.F.
B713	X	7	11'-0"			WING 3 - HORIZONTAL - B.F.
B414	X	6	7'-9"			WING 3 - HORIZONTAL
B515	X	13	13'-2"	X		WING 3 - VERTICAL
B516	X	9	12'-7"	X		WING 3 - VERTICAL
B417	X	9	15'-8"			WING 3 - HORZ - B.F. & F.F.
B618	X	2	15'-8"			WING 3 - HORIZONTAL
B519	X	12	15'-6"	X		WING 4 - VERTICAL - STIRRUPS
B520	X	6	14'-5"			WING 4 - HORIZONTAL - F.F.
B821	X	9	14'-5"	X		WING 4 - HORIZONTAL - B.F. - HOOK
B422	X	4	7'-9"			WING 4 - HORIZONTAL
B523	X	16	13'-6"	X		WING 4 - VERTICAL
B524	X	9	11'-6"	X		WING 4 - VERTICAL
B425	X	10	17'-8"			WING 4 - HORZ - B.F. & F.F.
B626	X	2	17'-8"			WING 4 - HORIZONTAL
B427						NOT USED
B428		2	5'-9"			BODY - B/W BEAM SEATS 1& 2
B629		22	28'-2"			BODY - HORIZONTAL
B730	X	2	11'-11"			WING 3 - HORIZONTAL

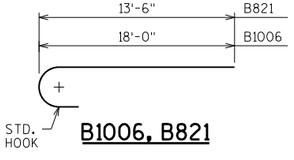
(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

(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.

(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.



B1006, B821

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D.

EAST ABUTMENT DETAILS

SHEET 8

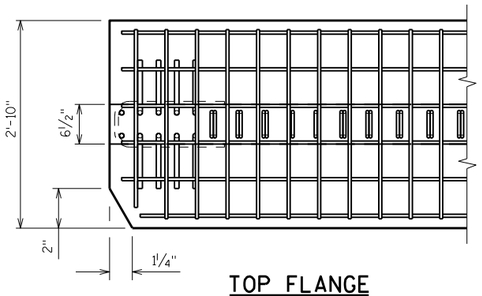
SCALE = 2.00

8

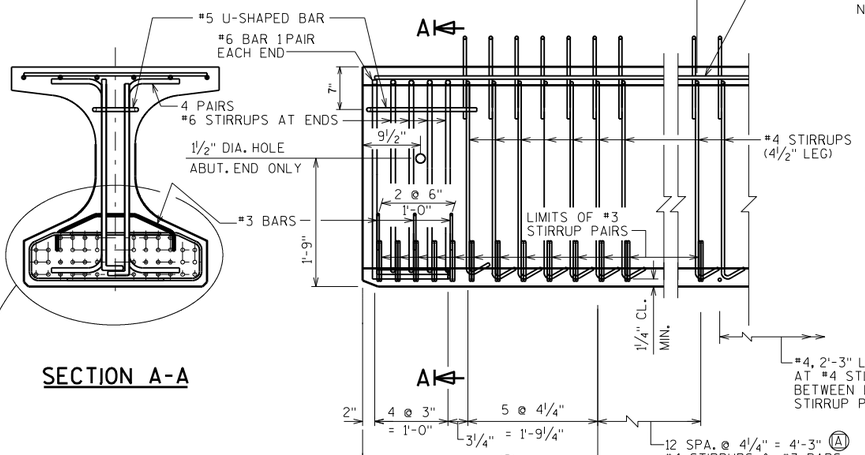
8

STATE PROJECT NUMBER

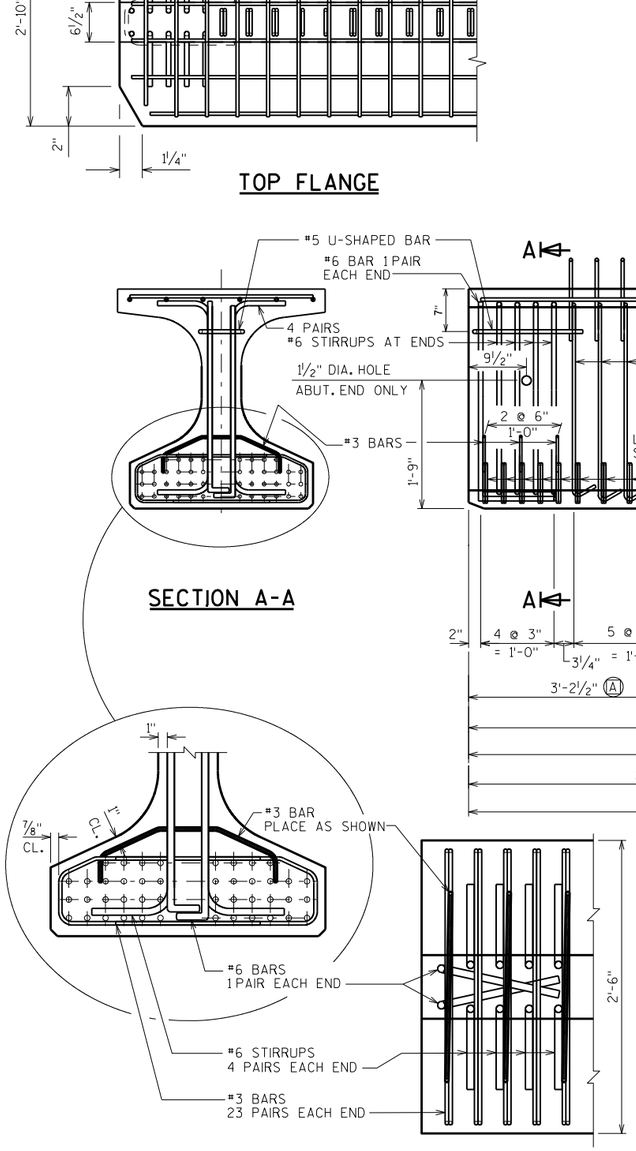
1146-75-71



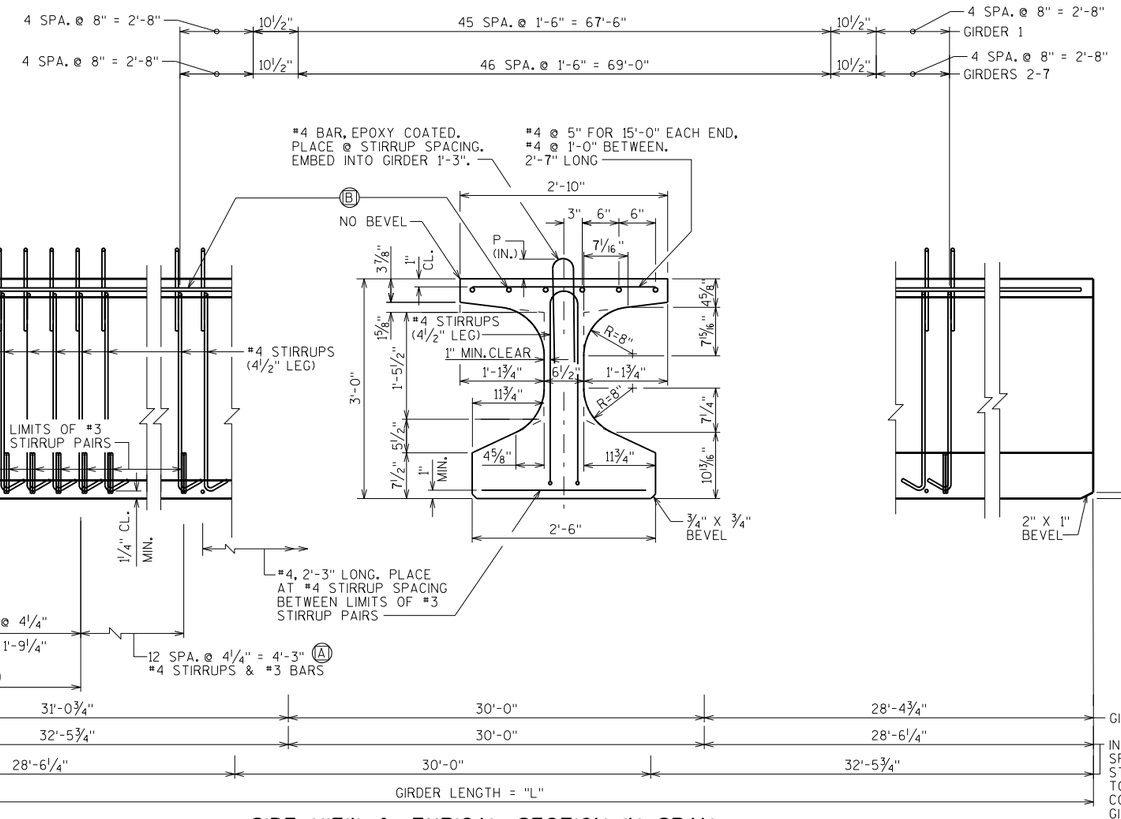
TOP FLANGE



SECTION A-A



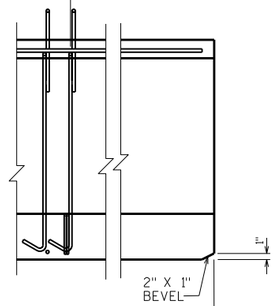
BOTTOM FLANGE



SIDE VIEW & TYPICAL SECTION IN SPAN

Ⓐ DETAIL TYP. AT EACH END

Ⓑ 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.

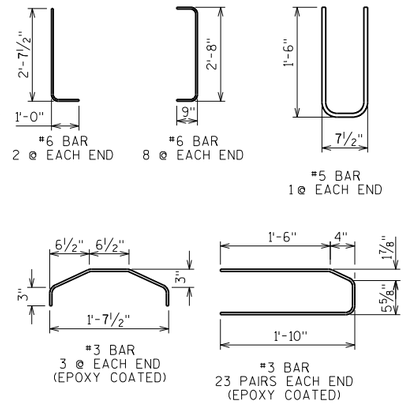
ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

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.



INSERT/HOLES SPACING FOR STEEL DIAPHRAGMS TO GIRDER WEB CONNECTION FOR GIRDERS 2-7. SEE SUPERSTRUCTURE SHEET FOR MORE INFORMATION.

✳ 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" IST 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	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	1.9	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		

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D.

36W" PRESTRESSED GIRDER DETAILS 1

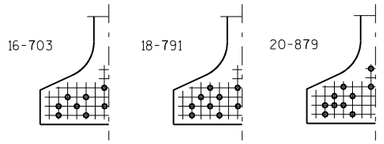
SHEET 9

SCALE = 1.00

8 19 9 5 12

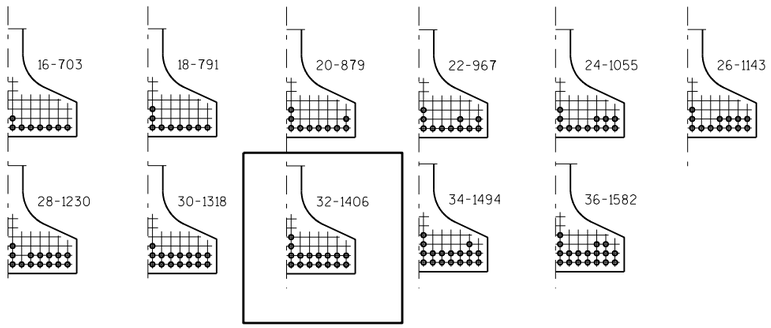
8

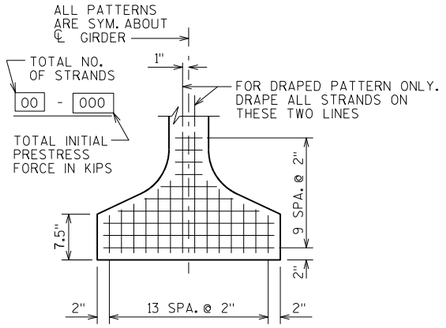
STATE PROJECT NUMBER
1146-75-71



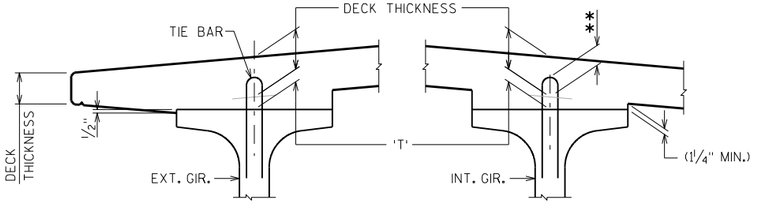
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6"Φ STRANDS





TYP. STRAND PATTERN



DECK HAUNCH DETAIL

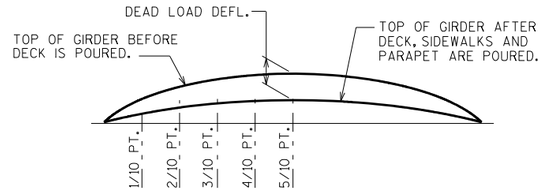
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** 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'

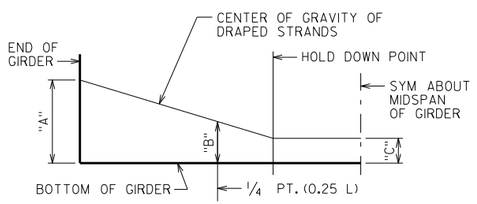
NOTE: AN AVERAGE HAUNCH ('T') OF 3.9" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".



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.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D.

36W" PRESTRESSED GIRDER DETAILS 2

SHEET 10

8

8

SCALE = 1.00

STATE PROJECT NUMBER

1146-75-71

NOTES

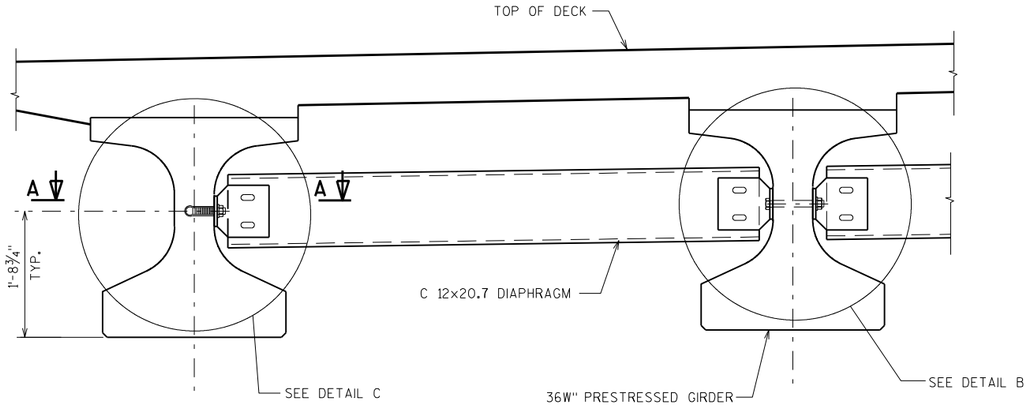
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-44-292", EACH.

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.

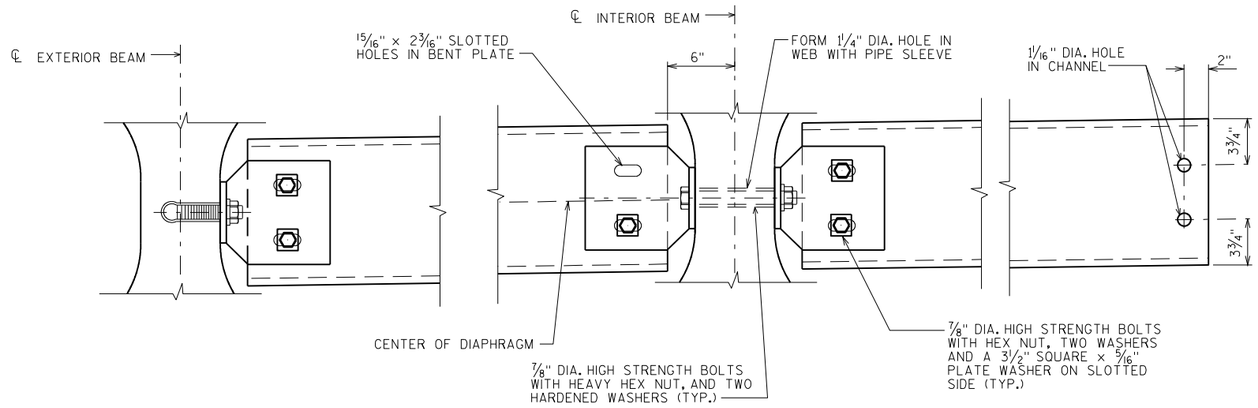
STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS 1/4 TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.



EXTERIOR GIRDER

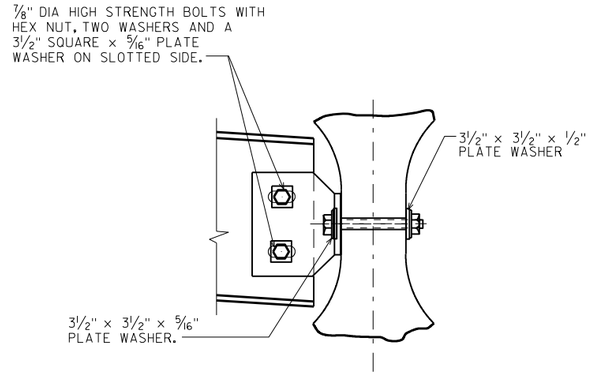
INTERIOR GIRDER

PART TRANSVERSE SECTION AT DIAPHRAGM

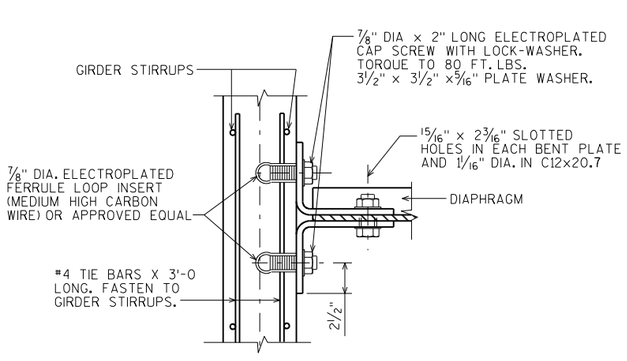


DETAIL C

DETAIL B

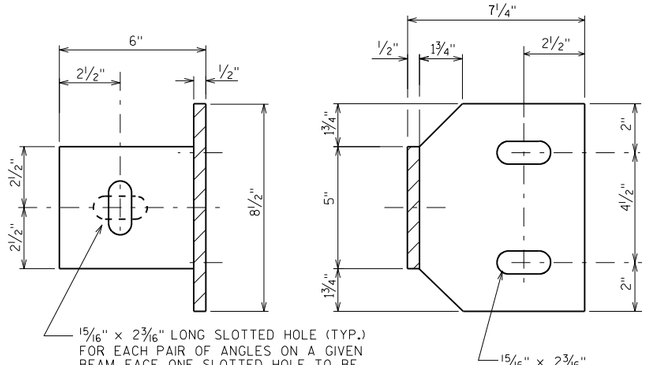


SECTION AT INTERIOR GIRDERS THRU DIAPHRAGM FOR SKEW ANGLES > 10°



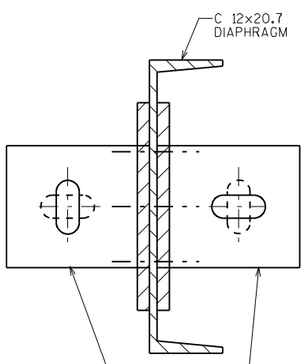
SECTION A-A

(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

DRAWN BY SEW | PLANS CK'D.

STEEL DIAPHRAGM

SHEET 11

SCALE = 1.00

8

8

STATE PROJECT NUMBER

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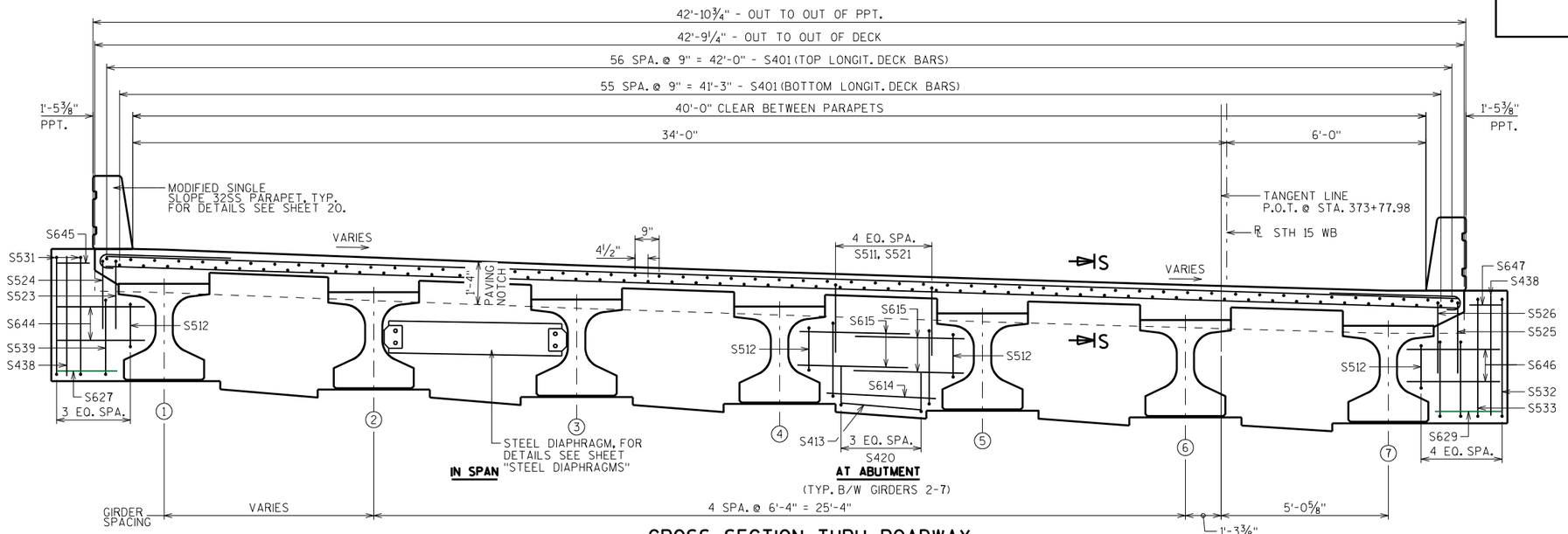
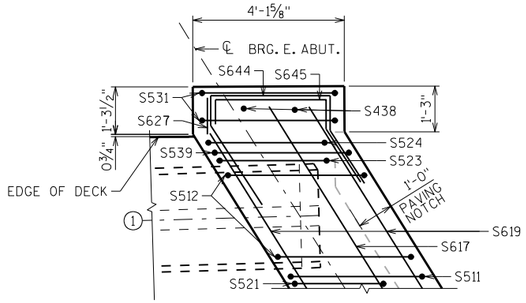


CROSS SECTION THRU ROADWAY

LOOKING EAST

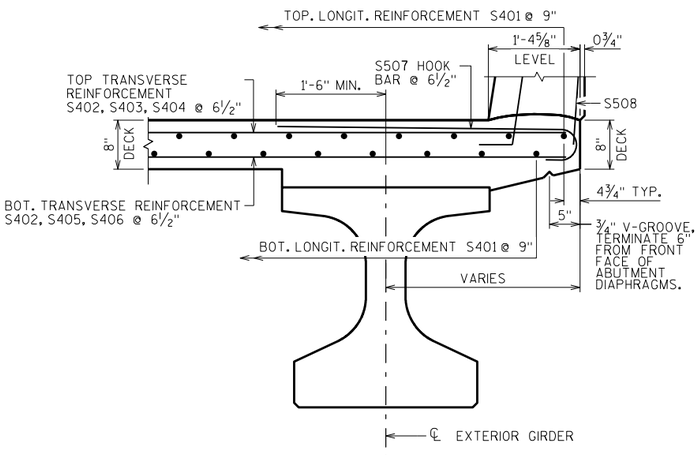
PLAN - ABUTMENT DIAPHRAGM

WING 2 SHOWN



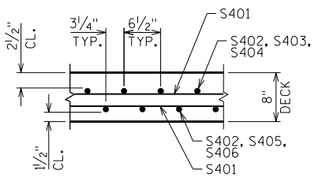
PLAN - ABUTMENT DIAPHRAGM

WING 3 SHOWN

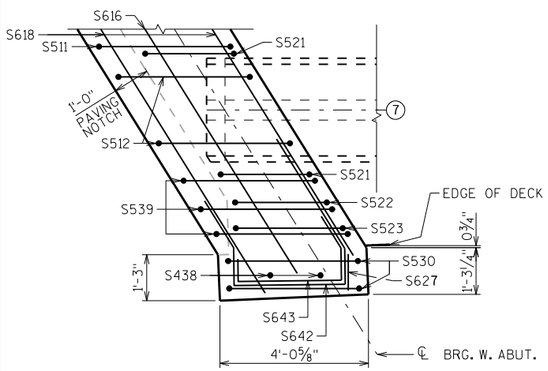


DECK STEEL DETAIL

(TYP. AT BOTH EDGES)

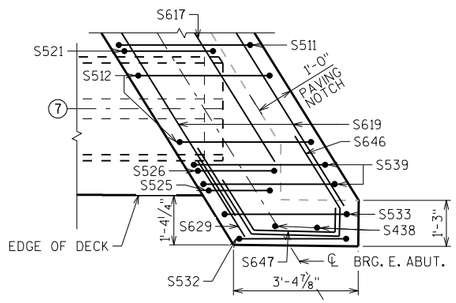


SECTION S-S



PLAN - ABUTMENT DIAPHRAGM

WING 1 SHOWN



PLAN - ABUTMENT DIAPHRAGM

WING 4 SHOWN

◯ 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.

SUPERSTRUCTURE CROSS SECTION

SHEET 12

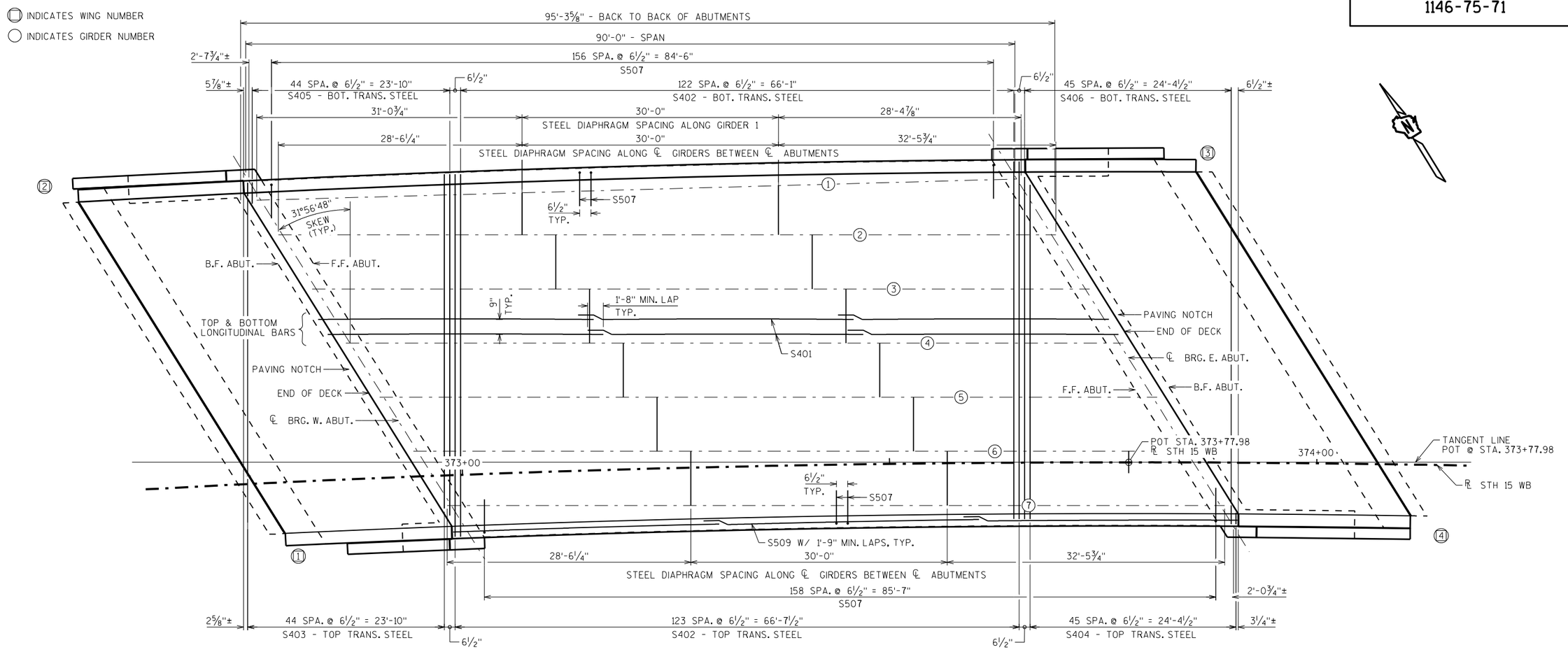
SCALE = 2.00

8

8

STATE PROJECT NUMBER

1146-75-71



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	810.93	811.18	811.43	811.68	811.93	812.18	812.43	812.68	812.93	813.18	813.41
℄ 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
℞ '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
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.

SUPERSTRUCTURE

SHEET 13

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	247	42'-5"			DECK - TOP & BOT. HORIZ. - TRANS.
⚠ S403	X	45	20'-9"		X	DECK - TOP HORIZ. - TRANS.
⚠ S404	X	46	20'-11		X	DECK - TOP HORIZ. - TRANS.
⚠ S405	X	45	21'-3"		X	DECK - BOT. HORIZ - TRANS.
⚠ S406	X	46	21'-4"		X	DECK - BOT. HORIZ. - TRANS.
S507	X	316	5'-5"	X		DECK - TOP - TRANS. - HOOK
S508	X	275	4'-5"	X		PARAPET/DECK - VERT. - TRANS.
S509	X	36	31'-10"			PARAPET - HORIZ. - LONGIT.
S510	X	275	5'-0"	X		PARAPET - VERT. - TRANS.
S511	X	57	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
S615	X	45	4'-4"			ABUT. DIAPHRAGM - BTWN. GIRDERS
S616	X	1	49'-2"			ABUT. DIAPHRAGM AT W. PAVING NOTCH
S617	X	1	50'-3"			ABUT. DIAPHRAGM AT E. PAVING NOTCH
S618	X	4	50'-9"			ABUT. DIAPHRAGM AT W. ABUT.
S619	X	4	51'-8"			ABUT. DIAPHRAGM AT E. ABUT.
S420	X	45	3'-7"	X		ABUT. DIAPHRAGM - BTWN. GIRDERS
S521	X	58	6'-10"	X		ABUT. DIAPHRAGM - BTWN GIRDERS
S522	X	1	6'-11"	X		ABUT. DIAPHRAGM ENDS - WING 1- VERT
S523	X	2	7'-4"	X		ABUT. DIAPHRAGM ENDS - WINGS 1& 3
S524	X	1	7'-7"	X		ABUT. DIAPHRAGM ENDS - WING 3 - VERT
S525	X	2	6'-1"	X		ABUT. DIAPHRAGM ENDS - WINGS 2 & 4
S526	X	2	6'-6"	X		ABUT. DIAPHRAGM ENDS - WINGS 2 & 4
S627	X	2	1'-0"			ABUT. DIAPHRAGM ENDS - WINGS 1& 3
S628	X	1	2'-5"			ABUT. DIAPHRAGM ENDS - WING 2 - HORZ
S629	X	1	2'-6"			ABUT. DIAPHRAGM ENDS - WING 4 - HORZ
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'-4"	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 - HORZ
S438	X	8	3'-9"			ABUT. DIAPHRAGM ENDS - VERT
S539	X	8	13'-0"	X		ABUT. DIAPHRAGM ENDS - VERT
S640	X	2	8'-10"	X		ABUT. DIAPHRAGM ENDS - WING 2 - HORZ
S641	X	1	5'-0"	X		ABUT. DIAPHRAGM ENDS - WING 2 - HORZ
S642	X	2	10'-1"	X		ABUT. DIAPHRAGM ENDS - WING 1- HORZ
S643	X	1	5'-10"	X		ABUT. DIAPHRAGM ENDS - WING 1- HORZ
S644	X	2	10'-7"	X		ABUT. DIAPHRAGM ENDS - WING 3 - HORZ
S645	X	1	7'-4"	X		ABUT. DIAPHRAGM ENDS - WING 3 - HORZ
S646	X	2	8'-8"	X		ABUT. DIAPHRAGM ENDS - WING 4 - HORZ
S647	X	1	5'-4"	X		ABUT. DIAPH. - WING 4 - HORZ
SS901		85	5'-0"	X		ABUT. DIAPH./APPROACH SLAB TIE

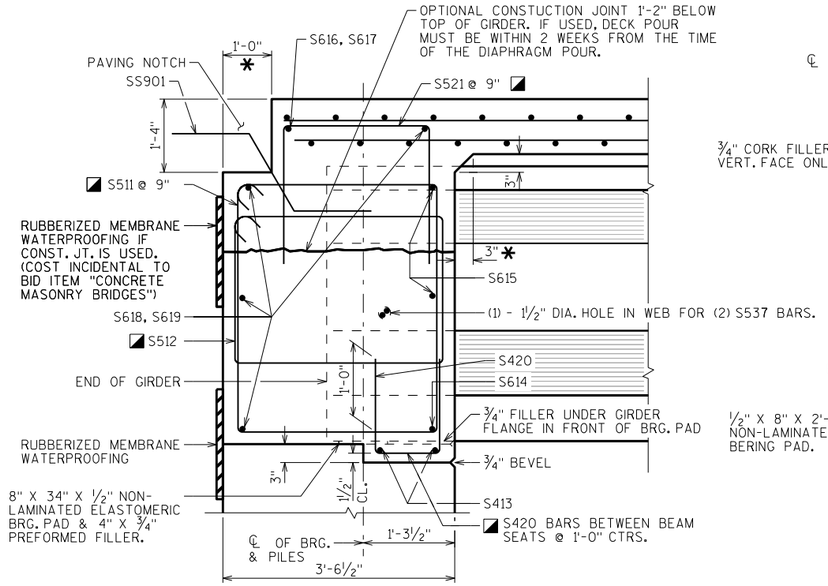
⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

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"

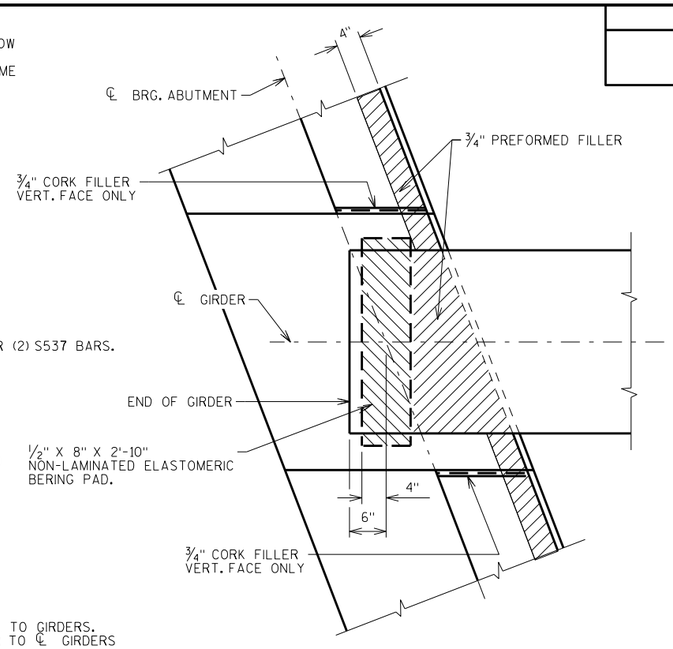
BUNDLE AND TAG EACH SERIES SEPARATELY.



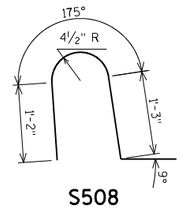
PART. LONGIT. SECTION

◪ BARS PLACED PARALLEL TO GIRDERS. SPACING PERPENDICULAR TO ℄ GIRDERS

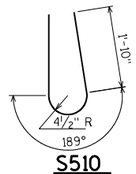
✱ DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS



ABUTMENT BEARING PAD DETAIL



S508



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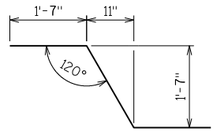
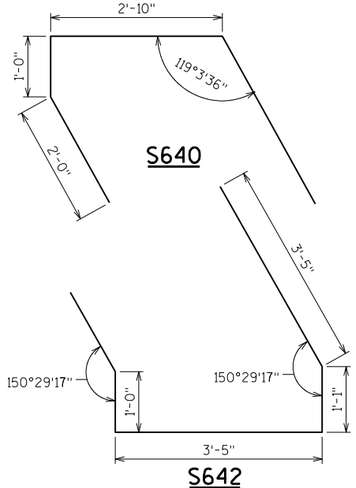
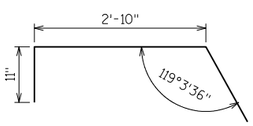


SS901



S640



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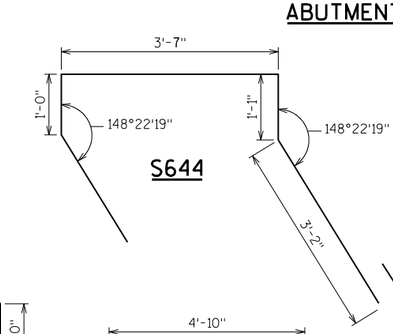

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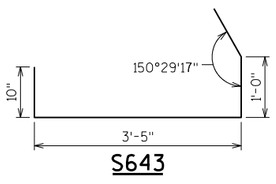

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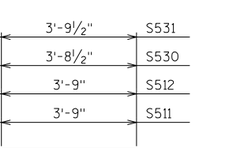

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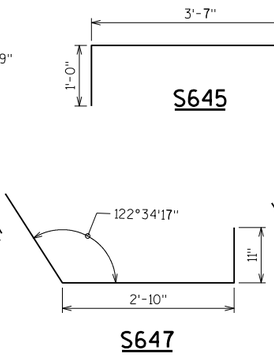
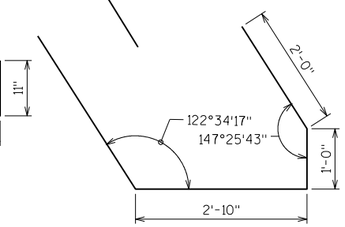
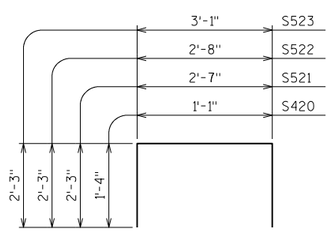


S645

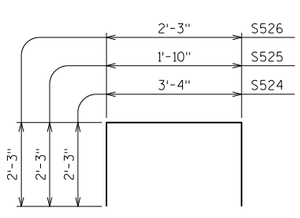
S647



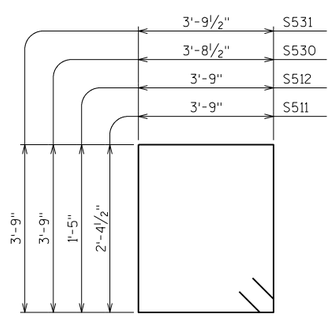
S646



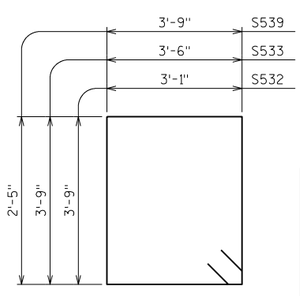
S420, S521, S522, S523



S524, S525, S526



S511, S512, S530, S531



S532, S533, S539

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D.

SUPERSTRUCTURE BAR DETAILS

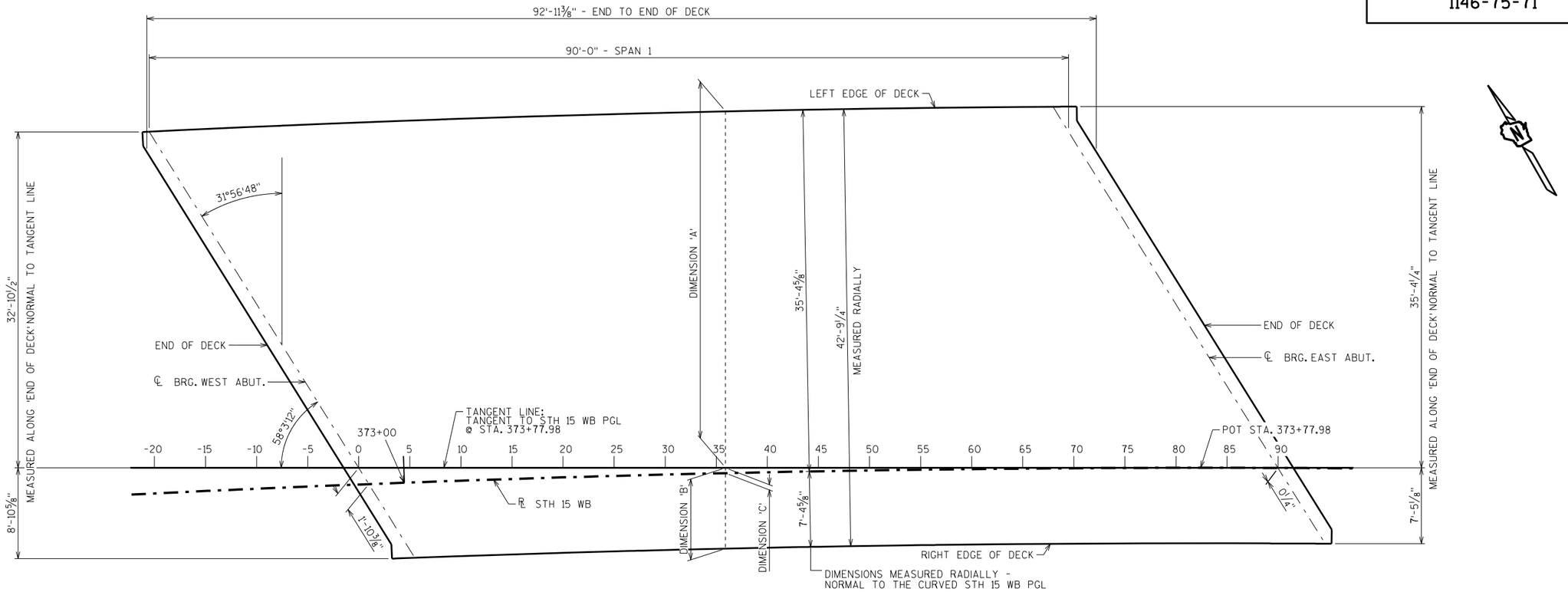
SHEET 14

SCALE = 1.00

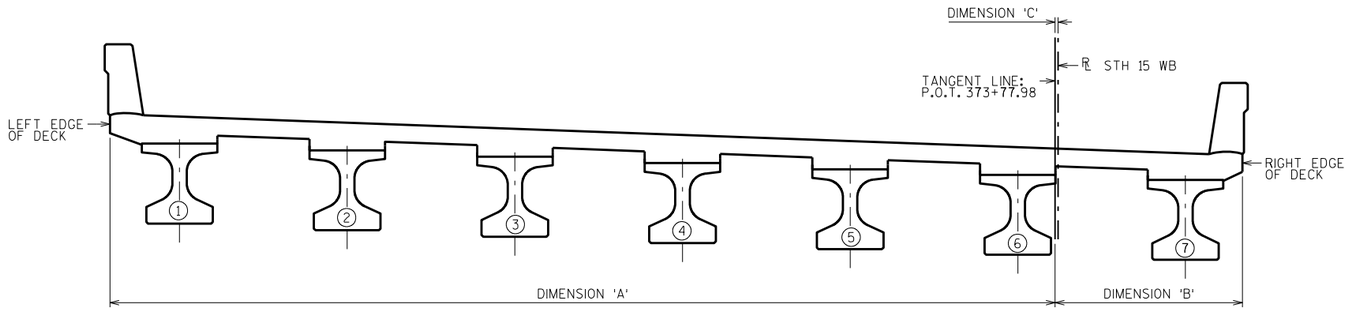
8

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
-20	32'-11 1/8"	———	2'-6"
-15	33'-2"	———	2'-3 1/8"
-10	33'-4 5/8"	———	2'-0 3/8"
-5	33'-7 1/8"	———	1'-9 7/8"
0	33'-9 1/2"	———	1'-7 3/8"
5	33'-11 3/4"	8'-9 7/8"	1'-5 1/8"
10	34'-1 7/8"	8'-7 5/8"	1'-3"
15	34'-3 7/8"	8'-5 5/8"	1'-1"
20	34'-5 5/8"	8'-3 3/4"	11 1/8"
25	34'-7 3/8"	8'-2 1/8"	9 3/8"
30	34'-8 7/8"	8'-0 1/2"	7 7/8"
35	34'-10 1/4"	7'-11 1/8"	6 3/8"
40	34'-11 5/8"	7'-9 3/4"	5 1/8"
45	35'-0 3/4"	7'-8 5/8"	4"
50	35'-1 5/8"	7'-7 5/8"	3"
55	35'-2 1/2"	7'-6 3/4"	2 1/8"
60	35'-3 1/4"	7'-6 1/8"	1 3/8"
65	35'-3 3/4"	7'-5 1/2"	0 7/8"
70	35'-4 1/4"	7'-5 1/8"	0 1/2"
75	———	7'-4 3/4"	0 1/8"
80	———	7'-4 5/8"	0"
85	———	7'-4 5/8"	0"
90	———	7'-4 3/4"	0 1/8"

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
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

DRAWN BY SEW | PLANS CK'D.

DECK LAYOUT

SHEET 15

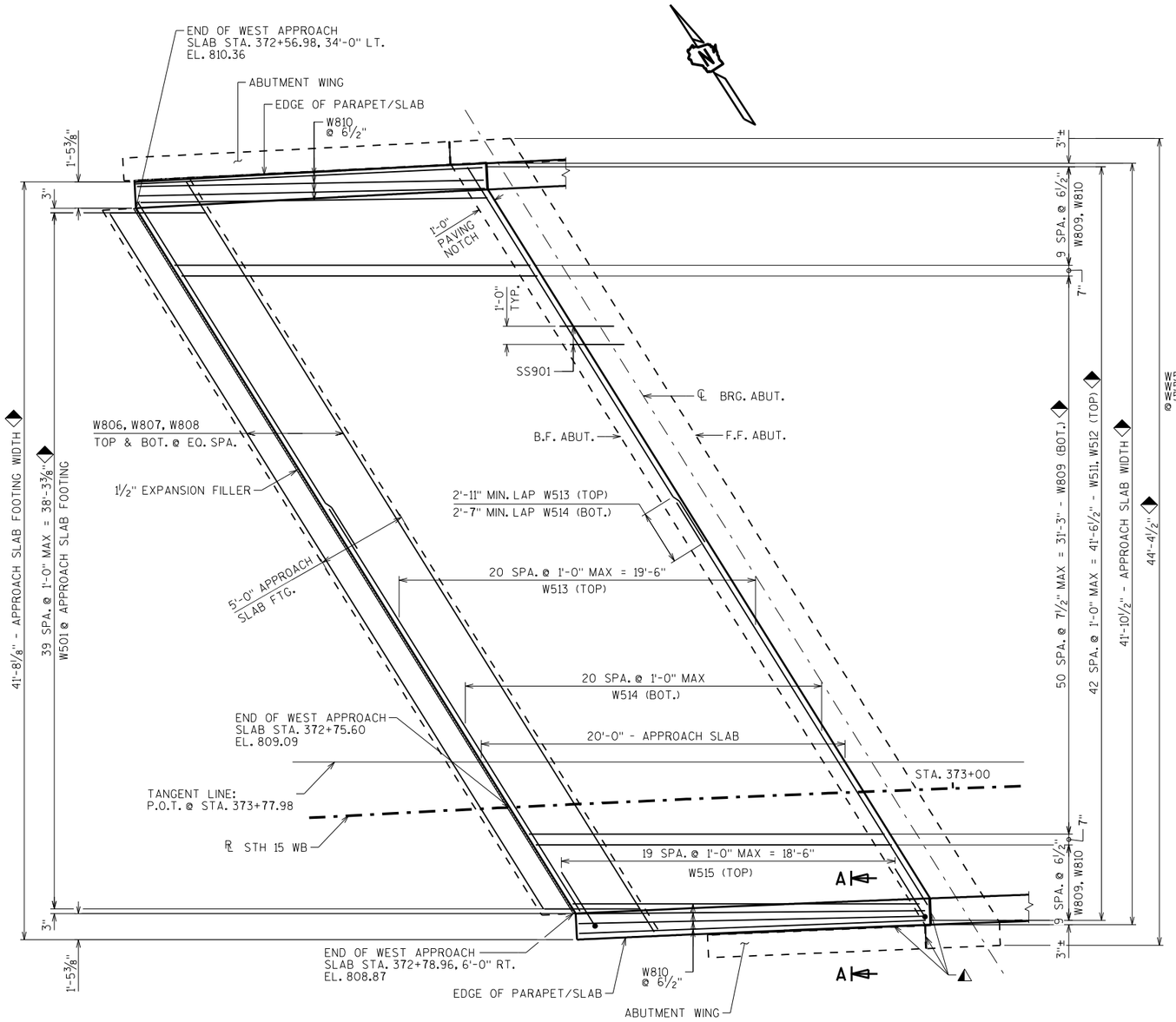
SCALE = 5.50

8

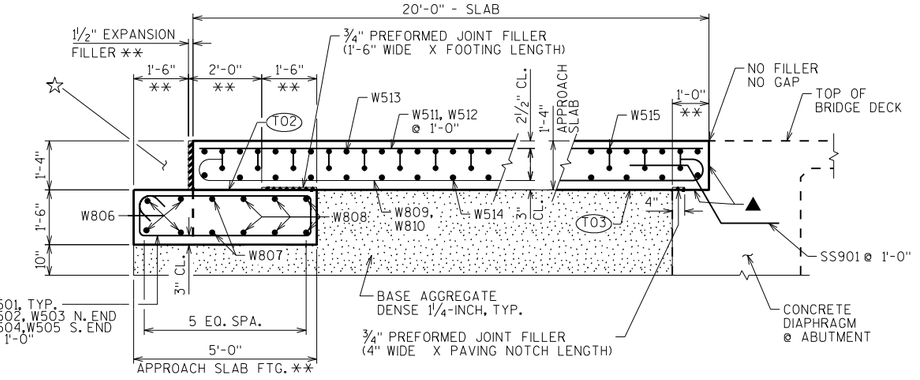
8

STATE PROJECT NUMBER

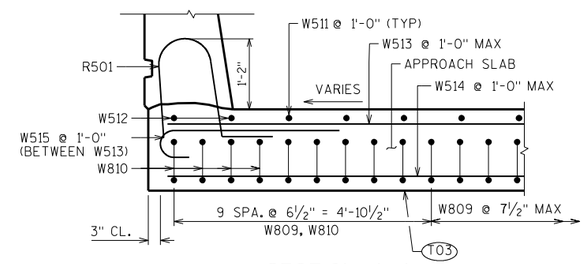
1146-75-71



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.

(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.

W. STRUCTURAL APPROACH SLAB

SHEET 16

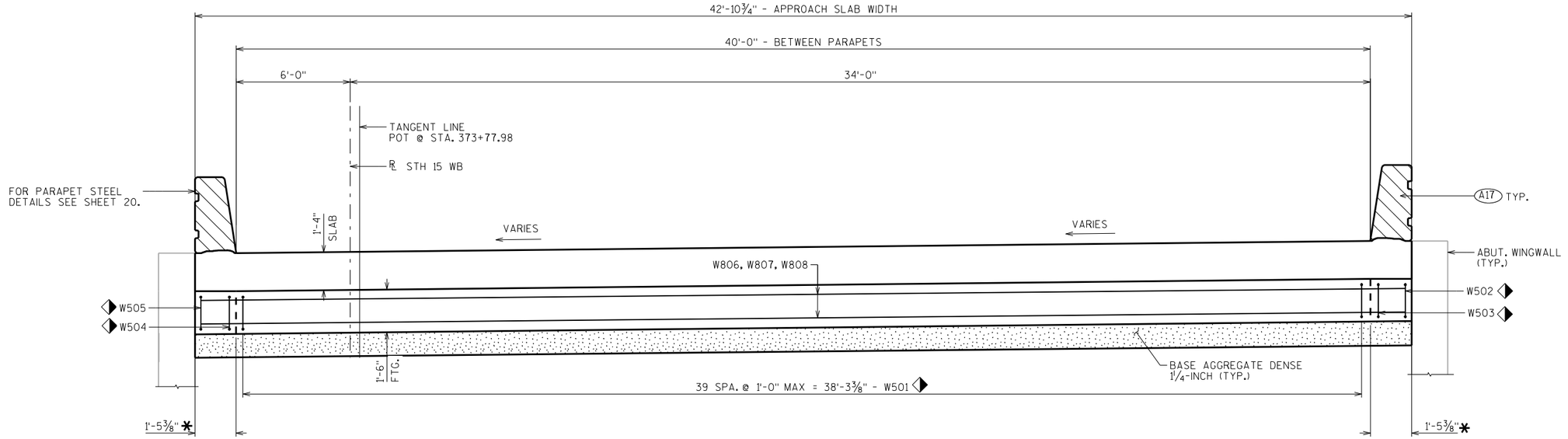
SCALE = 3.50

8

8

STATE PROJECT NUMBER

1146-75-71



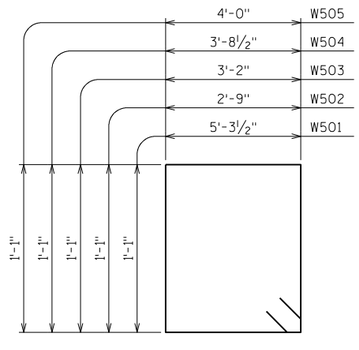
CROSS SECTION THRU ROADWAY - LOOKING WEST

(MEASUREMENTS TAKEN NORMAL TO ℄ STH 15 WB, SHOWING FOOTING STEEL ONLY)

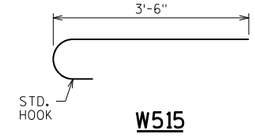
BILL OF BARS

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'-5"	X		APPROACH SLAB FTG. - STIRRUP
W502	X	1	8'-4"	X		APPROACH SLAB FTG. - STIR. NORTH END
W503	X	1	9'-2"	X		APPROACH SLAB FTG. - STIR. NORTH END
W504	X	1	10'-3"	X		APPROACH SLAB FTG. - STIR. SOUTH END
W505	X	1	10'-10"	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.
W511	X	39	19'-7"			APPROACH SLAB - LONG. - TOP
W512	X	4	19'-1"			APPROACH SLAB - LONG. - TOP
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



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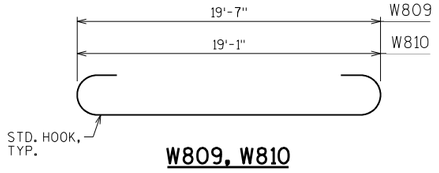


W809, W810

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-44-292

DRAWN BY SEW | PLANS CK'D.

W. STRUCT. APP. SLAB DETAILS

SHEET 17

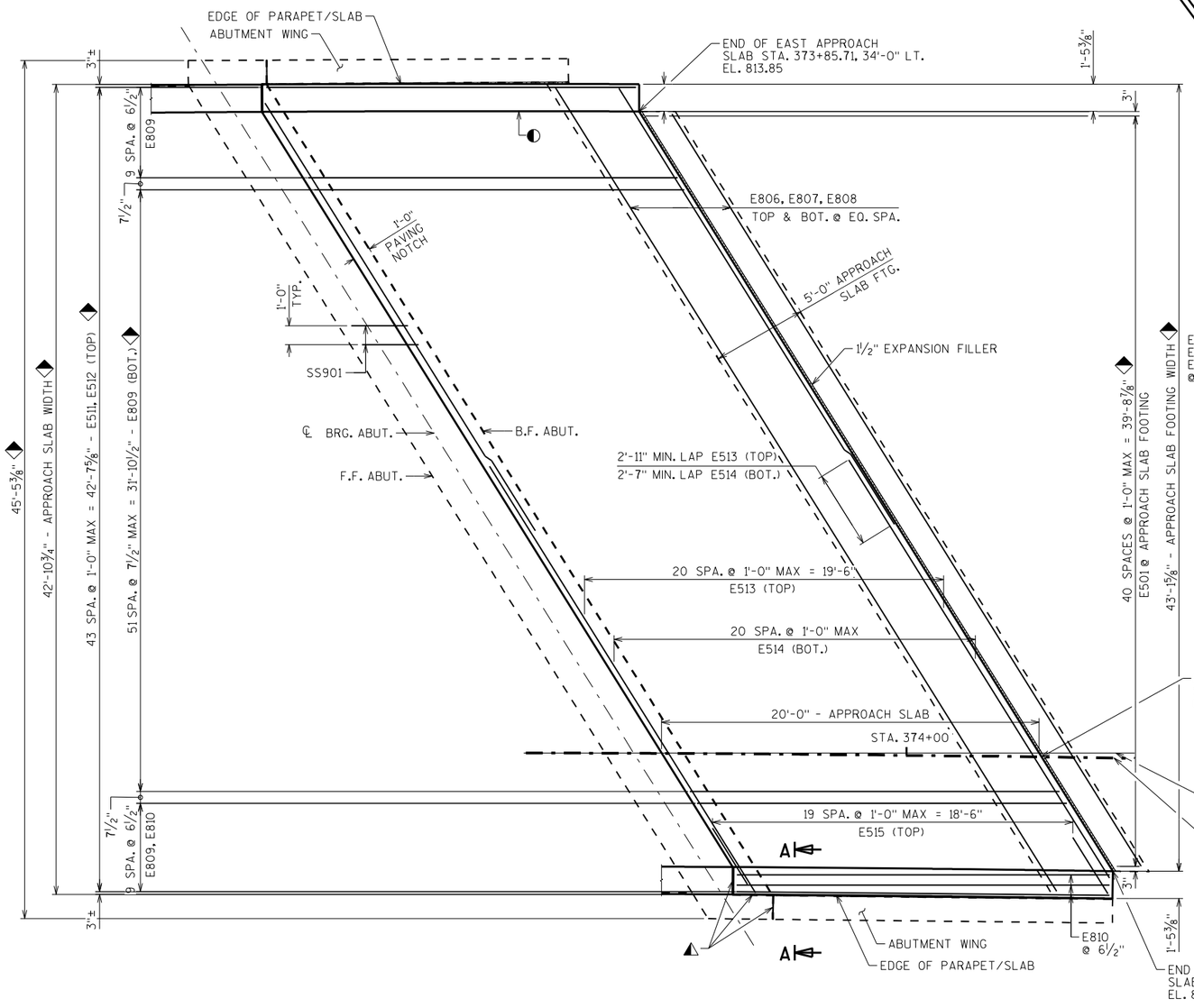
SCALE = 3.00

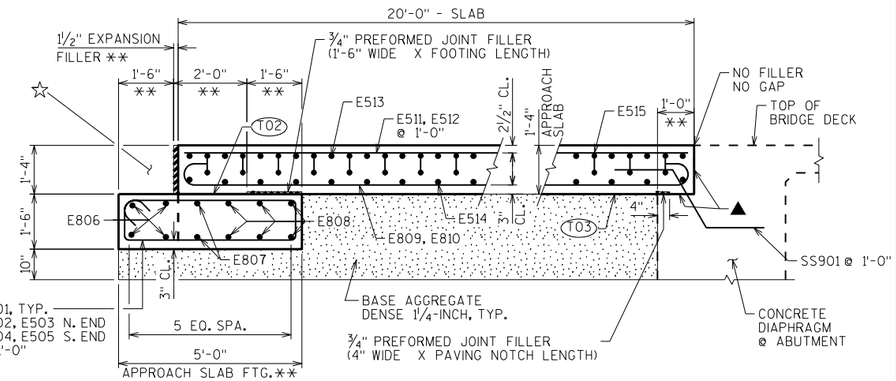
8

8

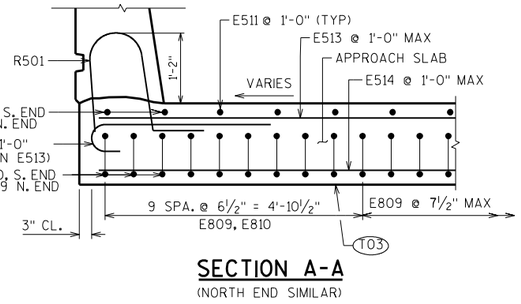
STATE PROJECT NUMBER

1146-75-71





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.

◐ 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.

E. STRUCTURAL APPROACH SLAB

SHEET 18

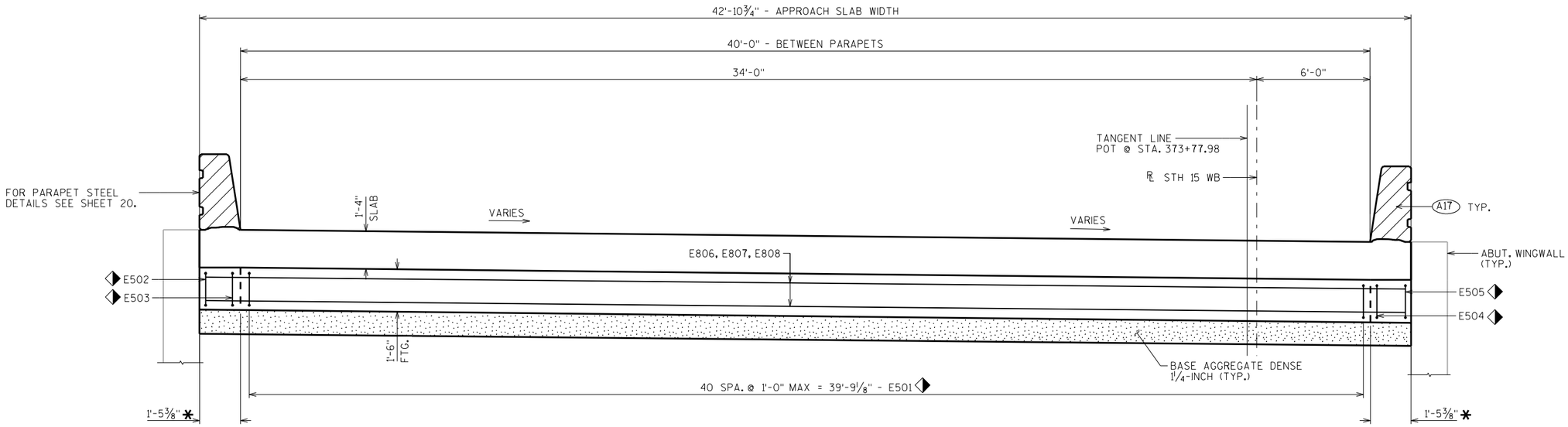
SCALE = 3.50

8

8

STATE PROJECT NUMBER

1146-75-71



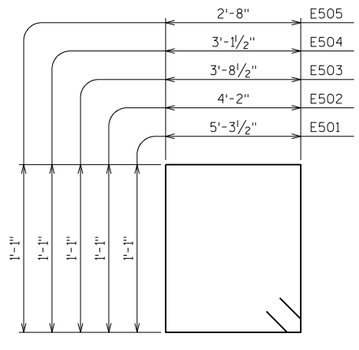
CROSS SECTION THRU ROADWAY - LOOKING EAST

(MEASUREMENTS TAKEN NORMAL TO ℄ STH 15 WB, SHOWING FOOTING STEEL ONLY)

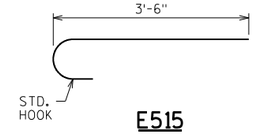
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

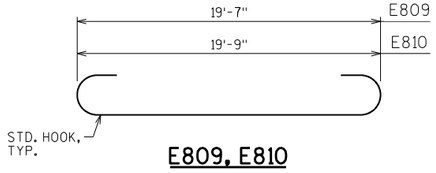
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
E501	X	41	13'-5"	X		APPROACH SLAB FTG. - STIRRUP
E502	X	1	11'-2"	X		APPROACH SLAB FTG. - STIR. NORTH END
E503	X	1	10'-3"	X		APPROACH SLAB FTG. - STIR. NORTH END
E504	X	1	9'-1"	X		APPROACH SLAB FTG. - STIR. SOUTH END
E505	X	1	8'-2"	X		APPROACH SLAB 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

◆ 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.

E. STRUCT. APP. SLAB DETAILS

SHEET 19

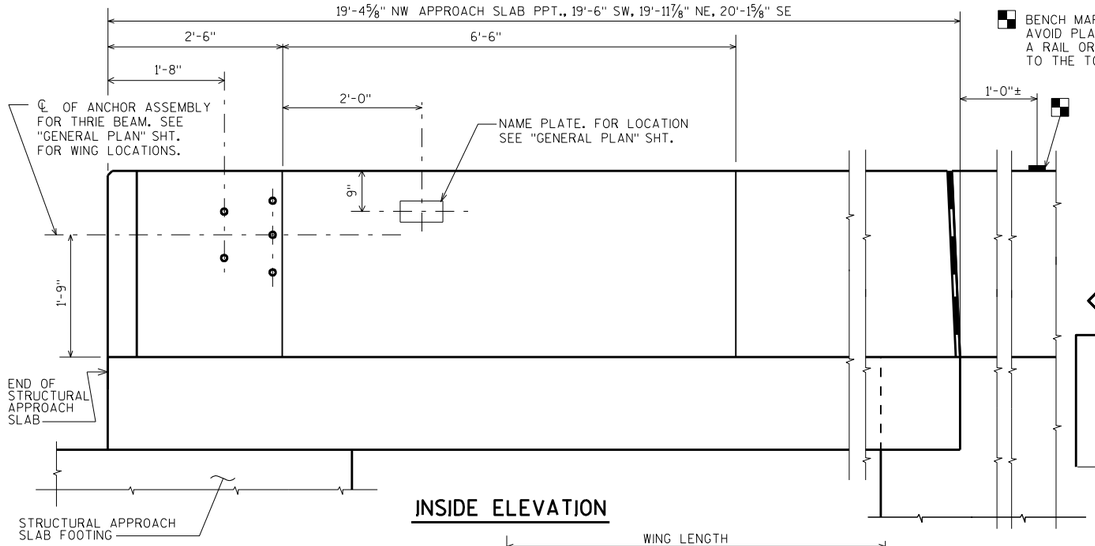
SCALE = 3.00

8

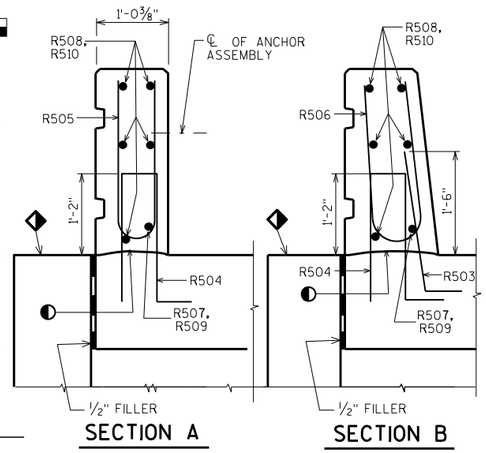
8

STATE PROJECT NUMBER

1146-75-71

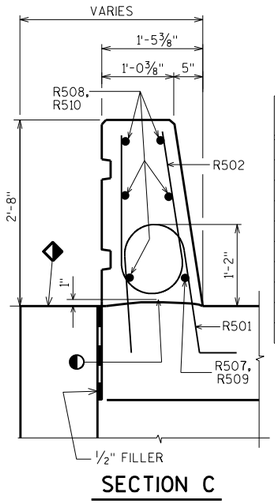


INSIDE ELEVATION



SECTION A

SECTION B

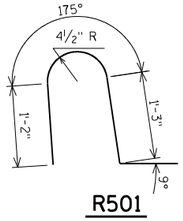


SECTION C

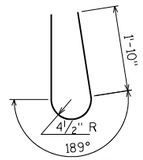
BILL OF BARS

FOR STRUCTURAL APPROACH SLAB PARAPETS

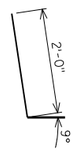
BAR MARK	COAT	W. APP. SLAB	E. APP. SLAB	LENGTH	BENT	BAR SERIES	LOCATION
R501	X	34	34	4-5	X		PARAPET VERT.
R502	X	34	34	5-0	X		PARAPET VERT.
R503	X	24	24	2-9	X		PARAPET VERT.
R504	X	34	34	4-4	X		PARAPET VERT.
R505	X	22	22	4-9	X		PARAPET VERT.
R506	X	12	12	4-10	X		PARAPET VERT.
R507	X	2		19'-0"	X		PARAPET HORIZ.
R508	X	10		19'-0"			PARAPET HORIZ.
R509	X		2	19'-7"	X		PARAPET HORIZ.
R510	X		10	19'-7"			PARAPET HORIZ.



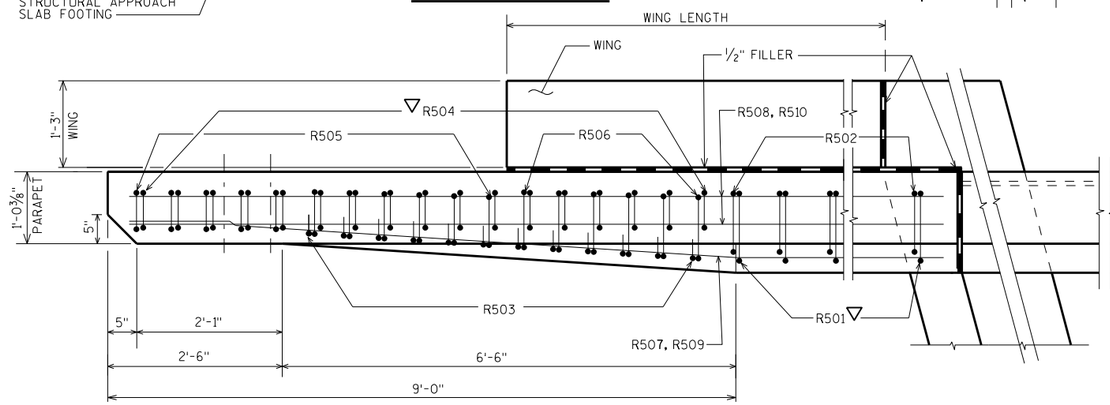
R501



R502



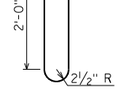
R503



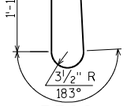
PLAN

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 ¾" - 'V' GROOVE.

R504

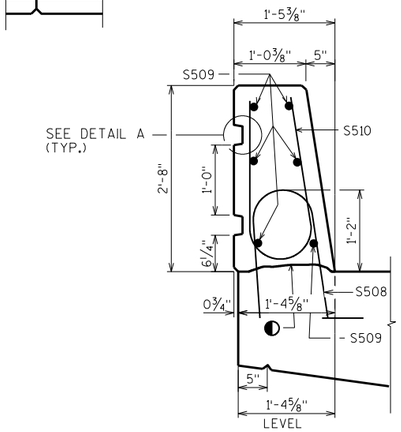


R505

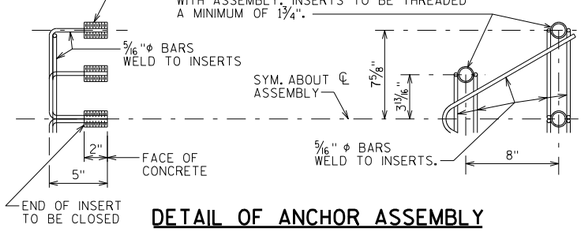


R506

R507, R509



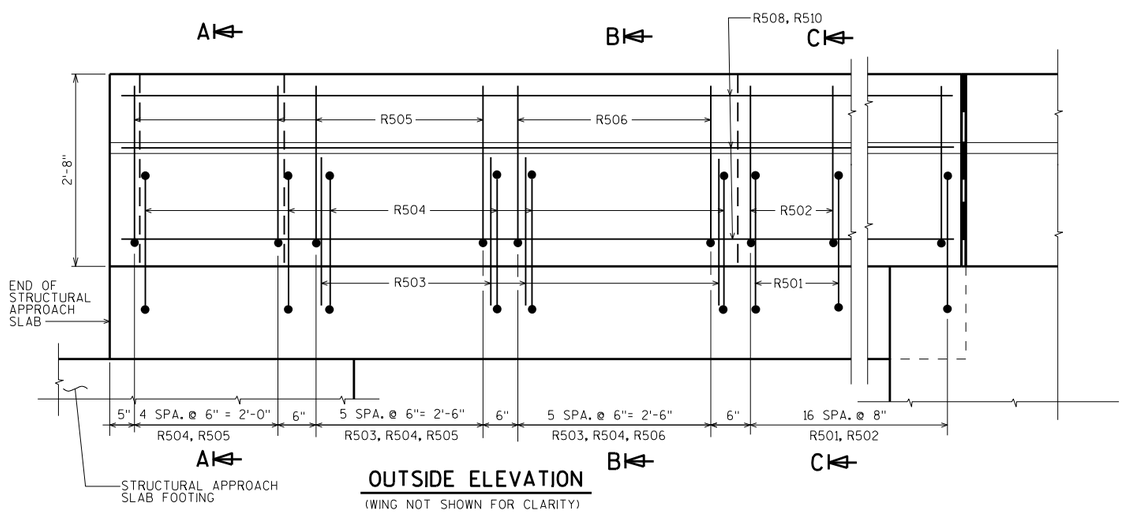
SECTION THRU PARAPET ON BRIDGE



DETAIL OF ANCHOR ASSEMBLY

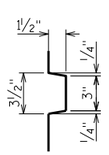
NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.



OUTSIDE ELEVATION

(WING NOT SHOWN FOR CLARITY)



DETAIL A

◆ SLOPE FOR DRAINAGE

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

▽ R501 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-44-292

DRAWN BY SEW | PLANS CK'D.

MODIFIED SINGLE SLOPE PARAPET 32SS WITH STRUCTURAL APPROACH SLAB

SHEET 20

SCALE = 1:1

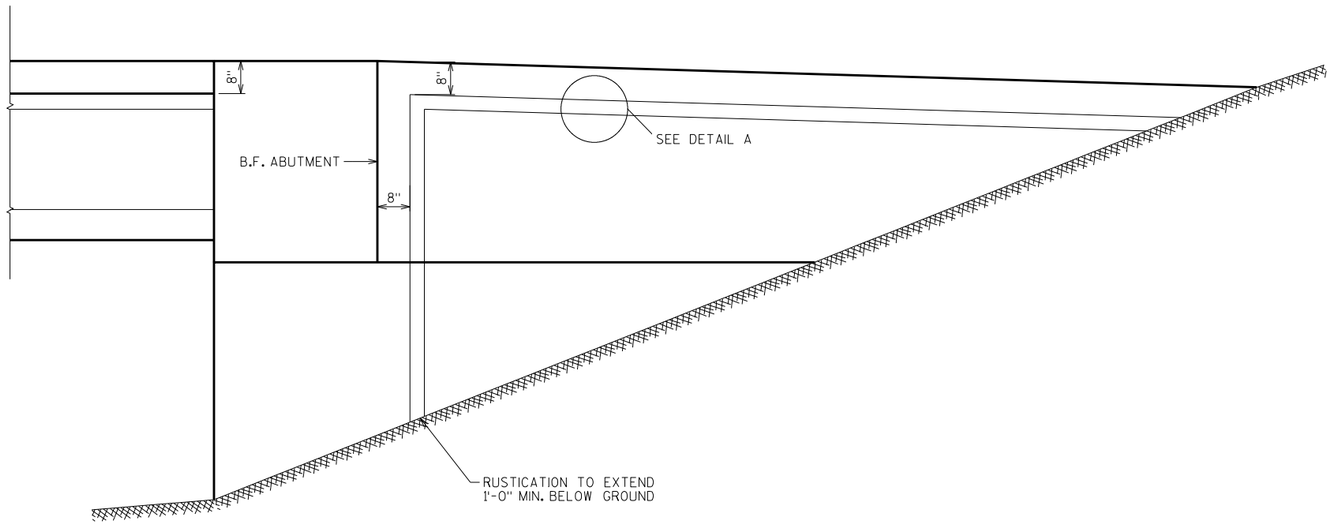
8

8

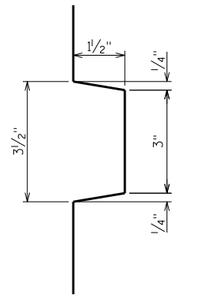
STATE PROJECT NUMBER

1146-75-71

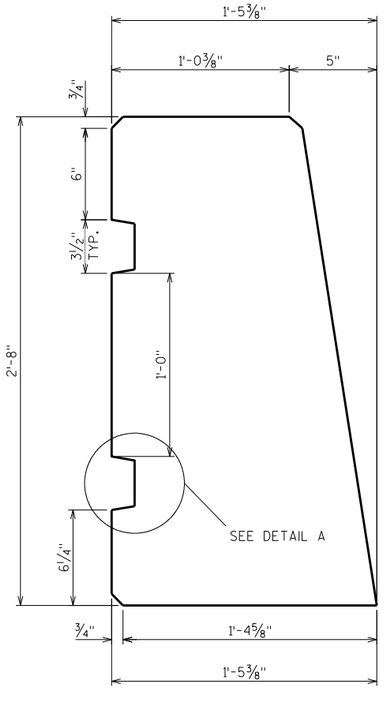
DOUBLE RUSTICATION LINES
MODIFIED 'SINGLE SLOPE PARAPET 32SS'
(AREA = 3.25 SF, WEIGHT = 488 LB/FT.)



WING WALL



DETAIL A



MODIFIED 32SS PARAPET

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-292

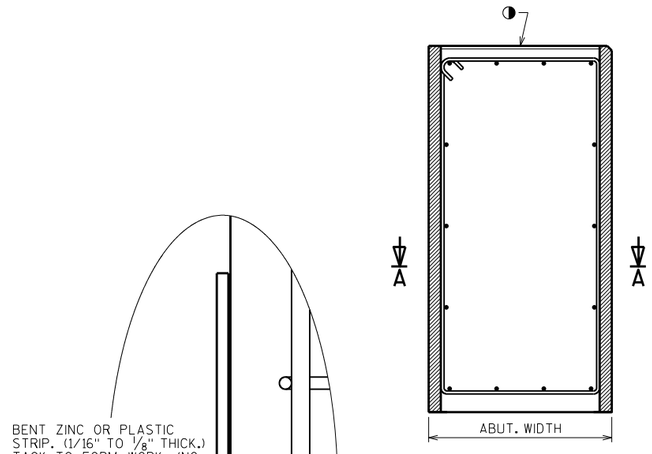
DRAWN BY SEW | PLANS CK'D.

AESTHETIC DETAILS

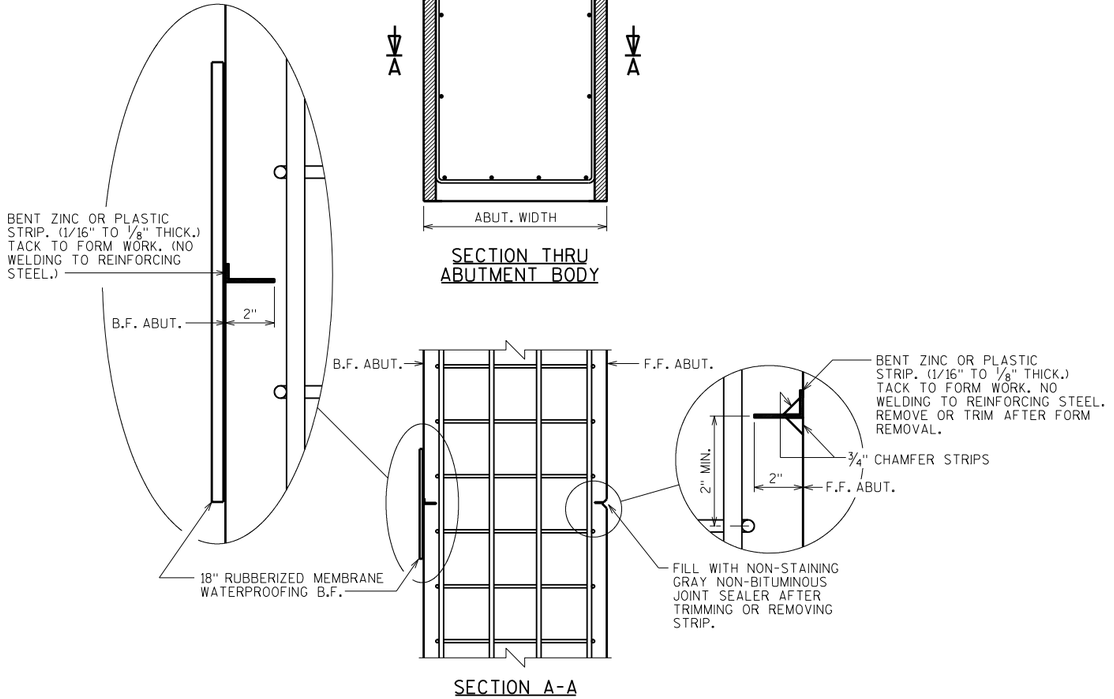
SHEET 21

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-44-292

DRAWN BY	SEW	PLANS CK'D.

ALTERNATE CONSTRUCTION JOINT

SHEET 22

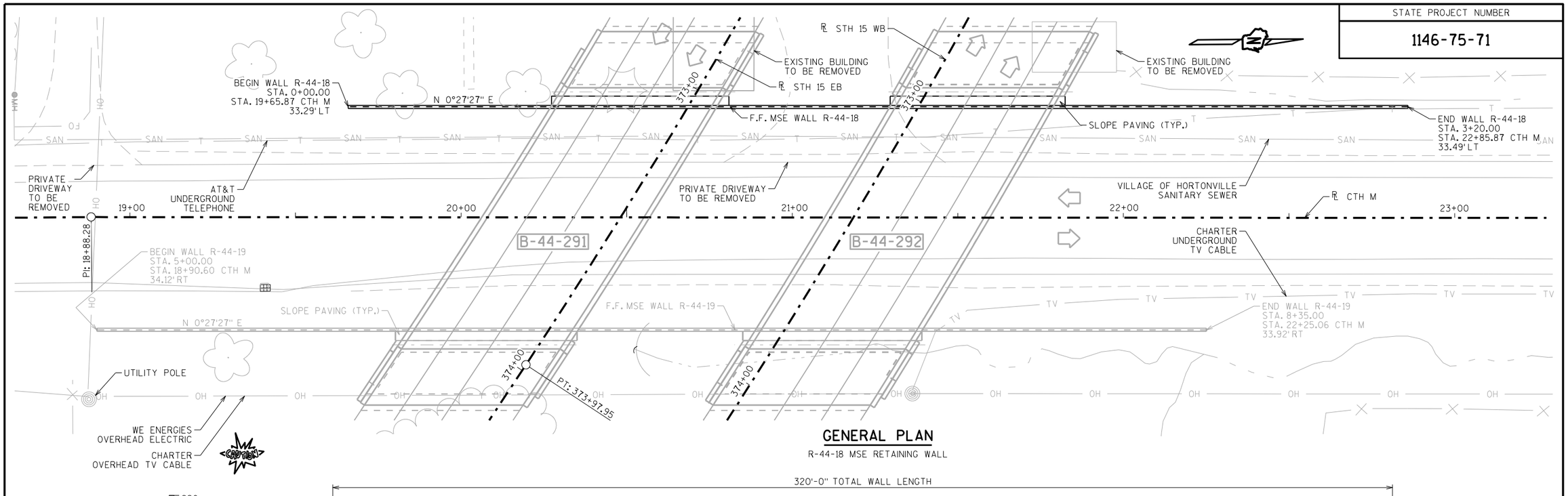
SCALE = 1.00

8

8

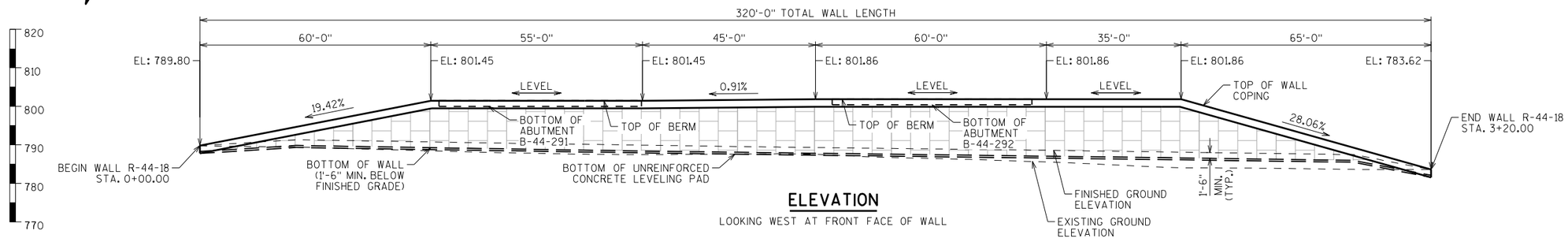
STATE PROJECT NUMBER

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 LRFD/OMP".

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 LRFD/OMP" 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 LRFD/OMP".

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/OMP".

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 LRFD/OMP

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

AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION

BUREAU OF STRUCTURES

ACCEPTED _____ _____
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	

GENERAL PLAN

SHEET 1 OF 4

I.D. 1176-75-00N

DATE: JAN. 2017

SCALE = 15.00

8

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-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]	0.8	0.8	0.8
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)	5.98	5.98	5.98
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 LRFD/QMP	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-12
P.I. = 368+34.14
Δ = 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-12
P.I. = 368+51.67
Δ = 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.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-18

DRAWN BY SEW | PLANS CK'D.

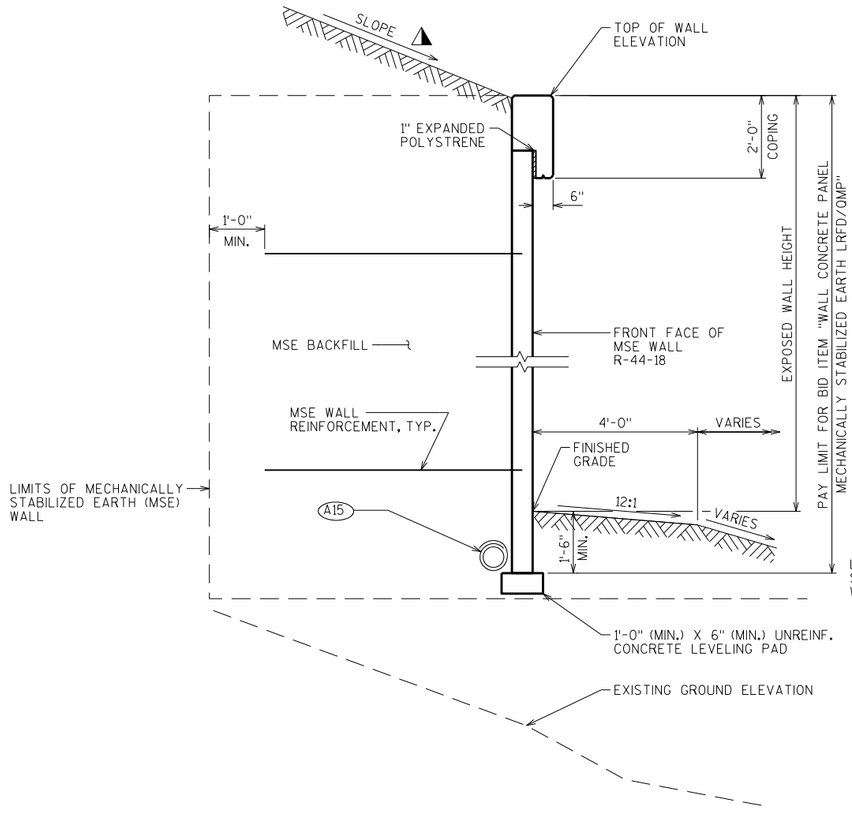
QUANTITIES, WALL DATA & PROFILES

SHEET 2

SCALE = 1.00

STATE PROJECT NUMBER

1146-75-71

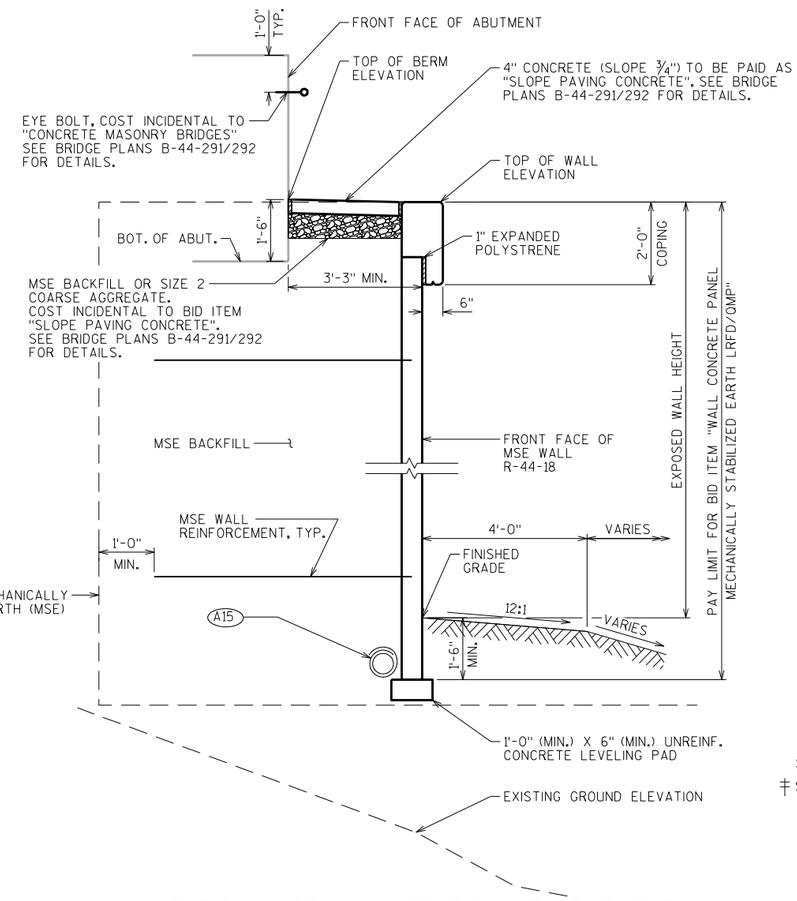


TYPICAL MSE WALL SECTION WITH NO ABUTMENT

LOOKING NORTH

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

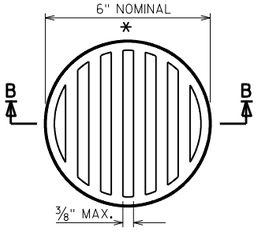


TYPICAL MSE WALL SECTION AT ABUTMENT

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.

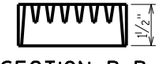


RODENT SCREEN DETAIL

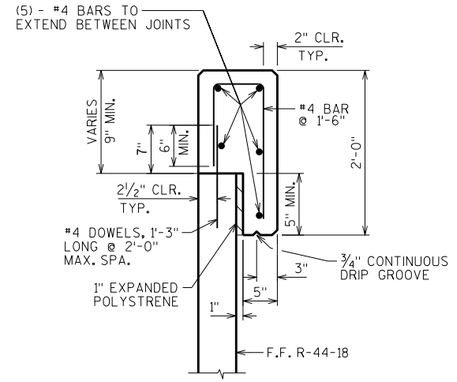
* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

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.

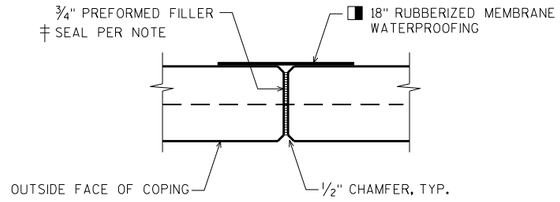


SECTION B-B



CAST-IN-PLACE CONCRETE COPING DETAIL

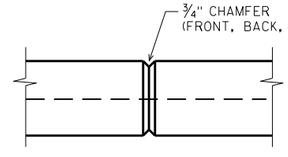
‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)



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.

WALL DETAILS

SHEET 3

SCALE = 5.33

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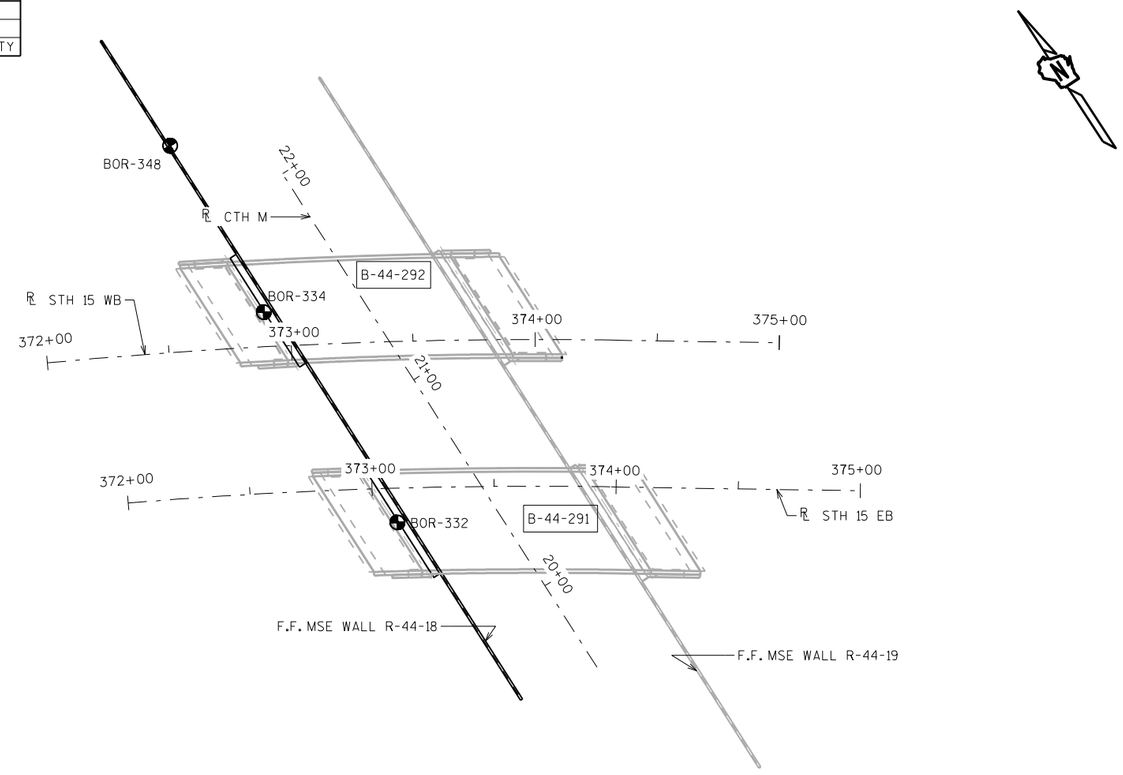
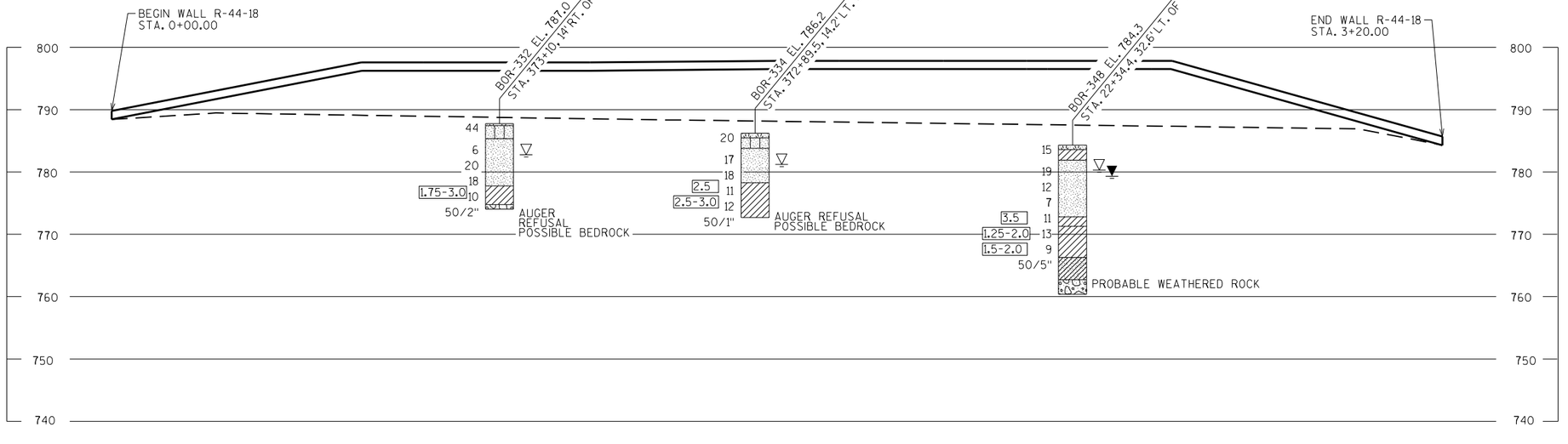
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
332	2/27/2014	592755	767493
334	2/27/2014	592857	767494
348	2/27/2014	592935	767499

BORINGS COMPLETED BY: GESTRA

REPORT COMPLETED BY: CH2M HILL

ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY





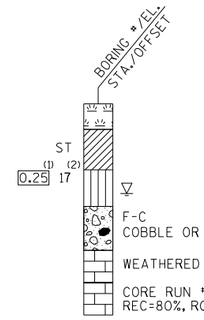
STATE PROJECT NUMBER

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.

SUBSURFACE EXPLORATION

SHEET 4

SCALE = 30.00

8

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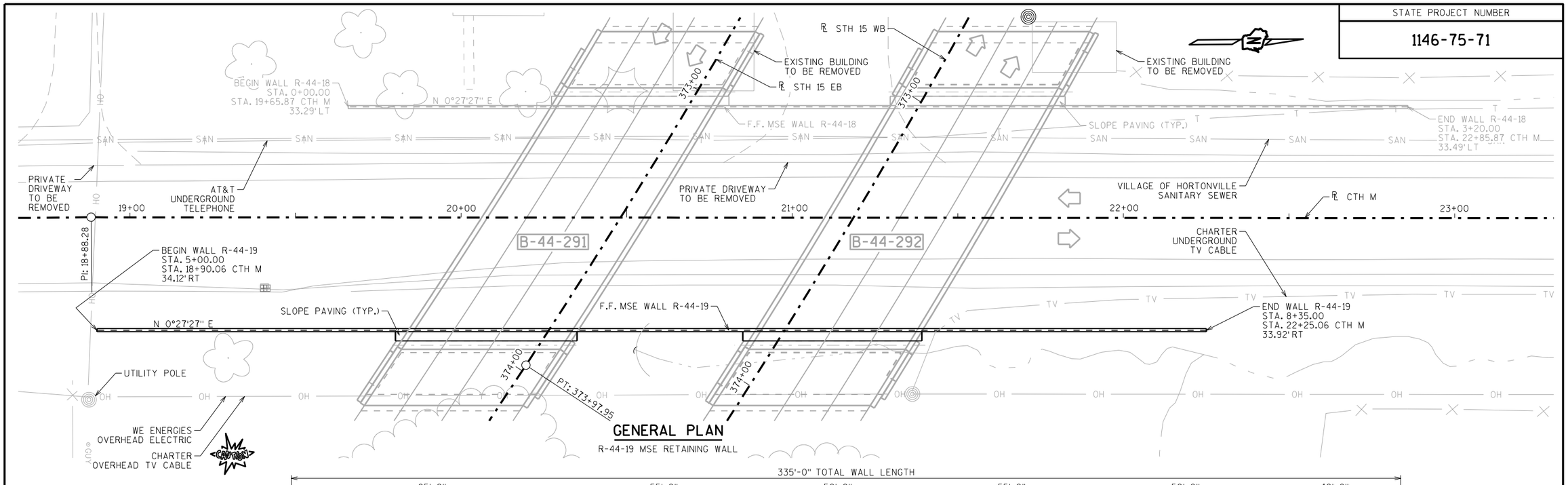
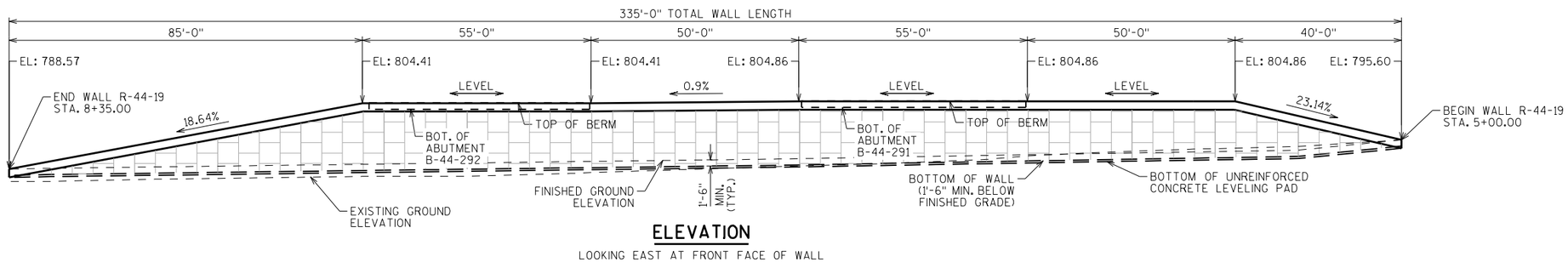
STATE PROJECT NUMBER

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 LRFD/QMP".

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 LRFD/QMP" 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 LRFD/QMP".

DESIGN DATA

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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 LRFD/QMP

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

AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION

BUREAU OF STRUCTURES

ACCEPTED _____ 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	SEW	DESIGNED CK'D.	SAD	DRAWN BY	SEW	PLANS CK'D.	

GENERAL PLAN

SHEET 1 OF 4

I.D. 1176-75-000 DATE: JAN. 2017

SCALE = 15.00

8

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]	0.7	0.75
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 LRFD/QMP	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-12
P.I. = 368+34.14
Δ = 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-12
P.I. = 368+51.67
Δ = 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.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-19

DRAWN BY SEW | PLANS CK'D.

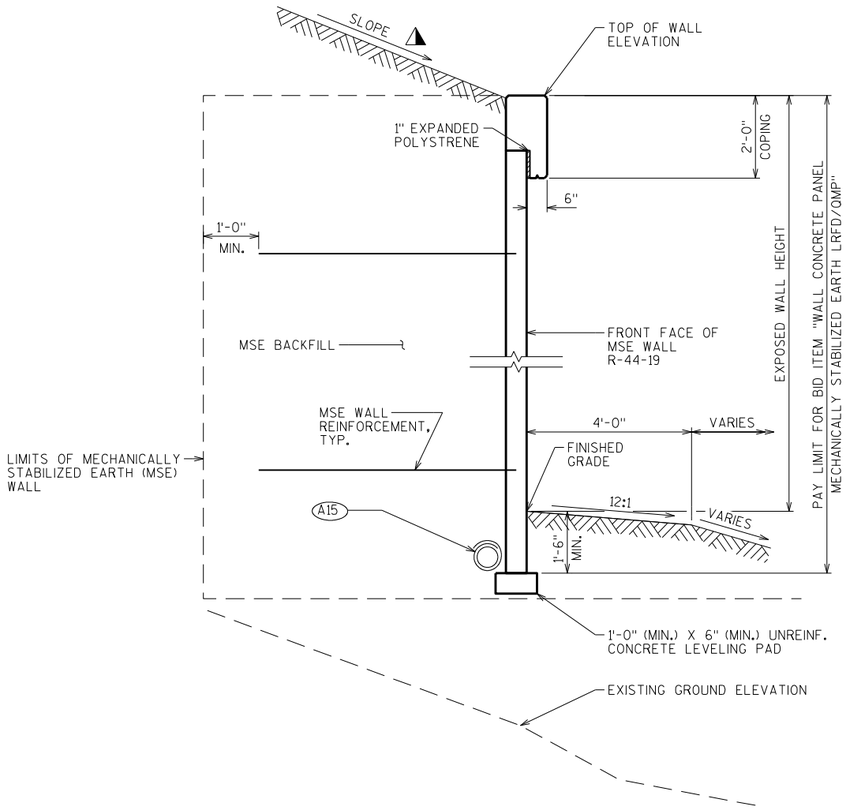
QUANTITIES, WALL DATA & PROFILES

SHEET 2

SCALE = 1.00

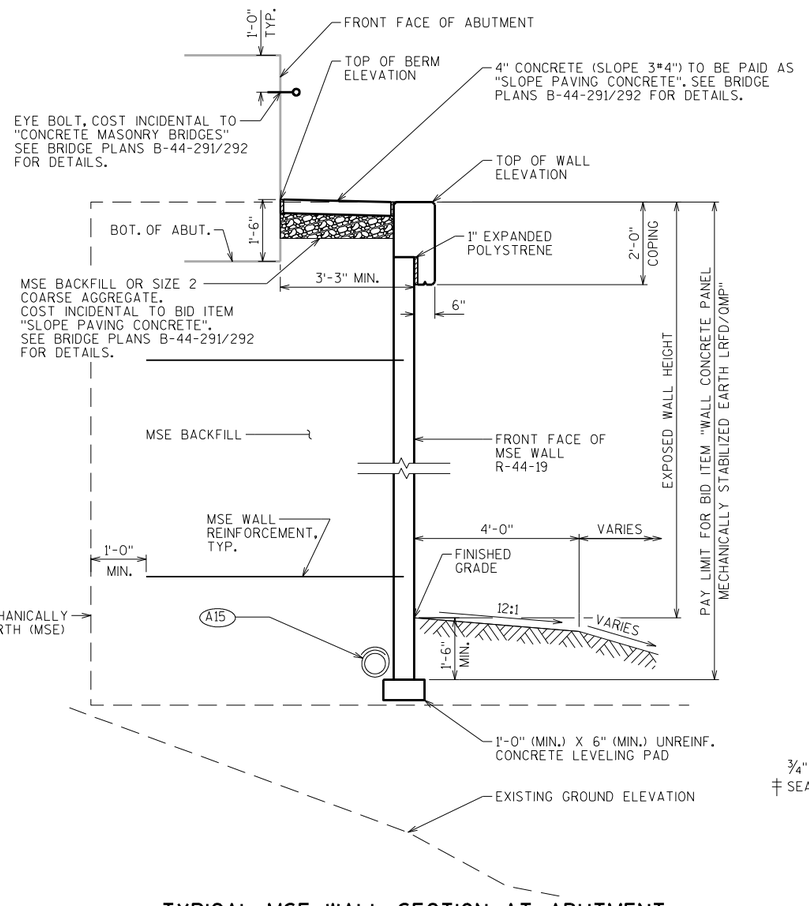
STATE PROJECT NUMBER

1146-75-71



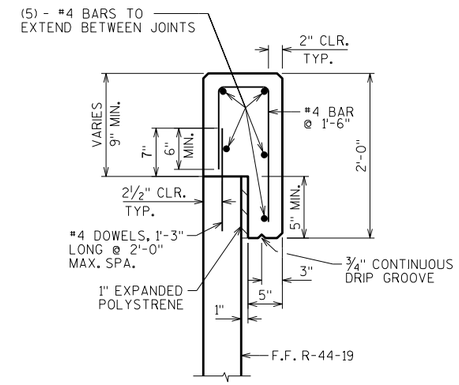
TYPICAL MSE WALL SECTION WITH NO ABUTMENT

LOOKING NORTH



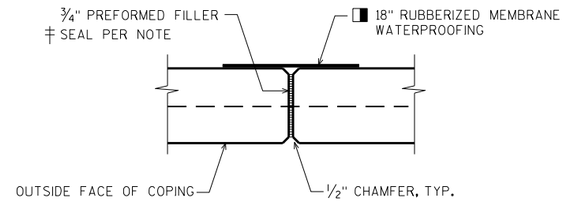
TYPICAL MSE WALL SECTION AT ABUTMENT

LOOKING NORTH



CAST-IN-PLACE CONCRETE COPING DETAIL

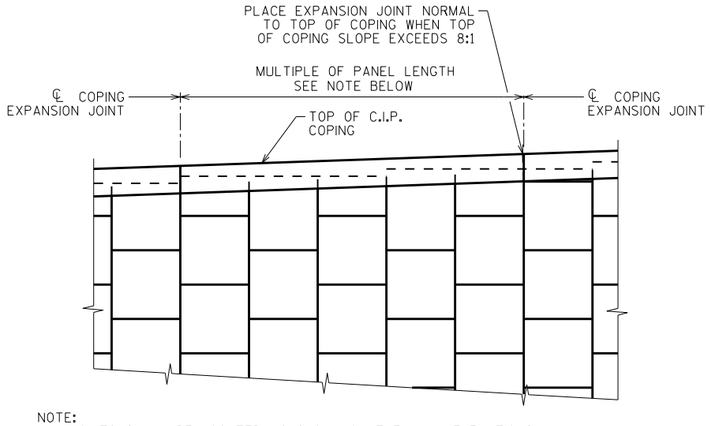
‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)



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.

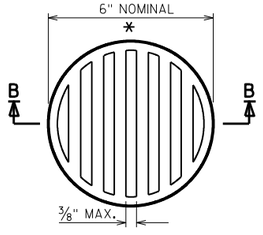


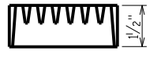
NOTE:
ALL JOINTS SHALL BE LOCATED AS SHOWN ON THE WALL ELEVATIONS AND MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

C.I.P. CONCRETE COPING PARTIAL ELEVATION

(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.





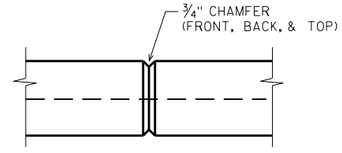
SECTION B-B

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.



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 SEW | PLANS CK'D.

WALL DETAILS

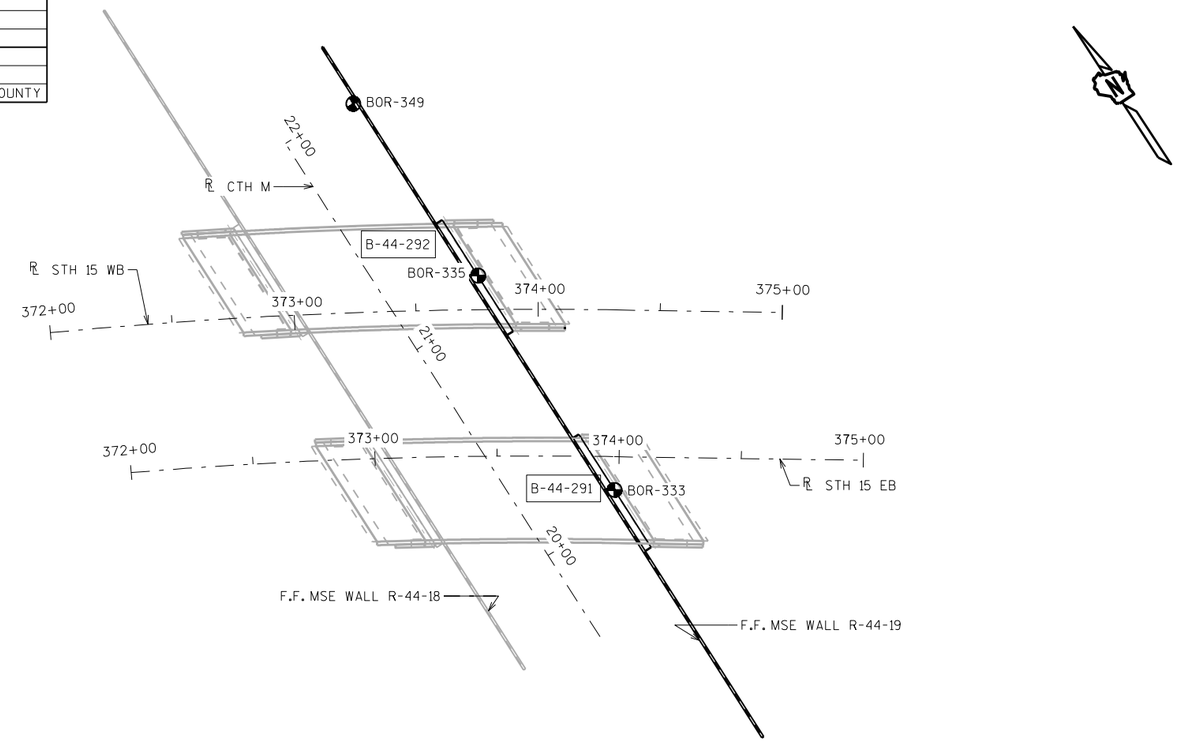
SHEET 3

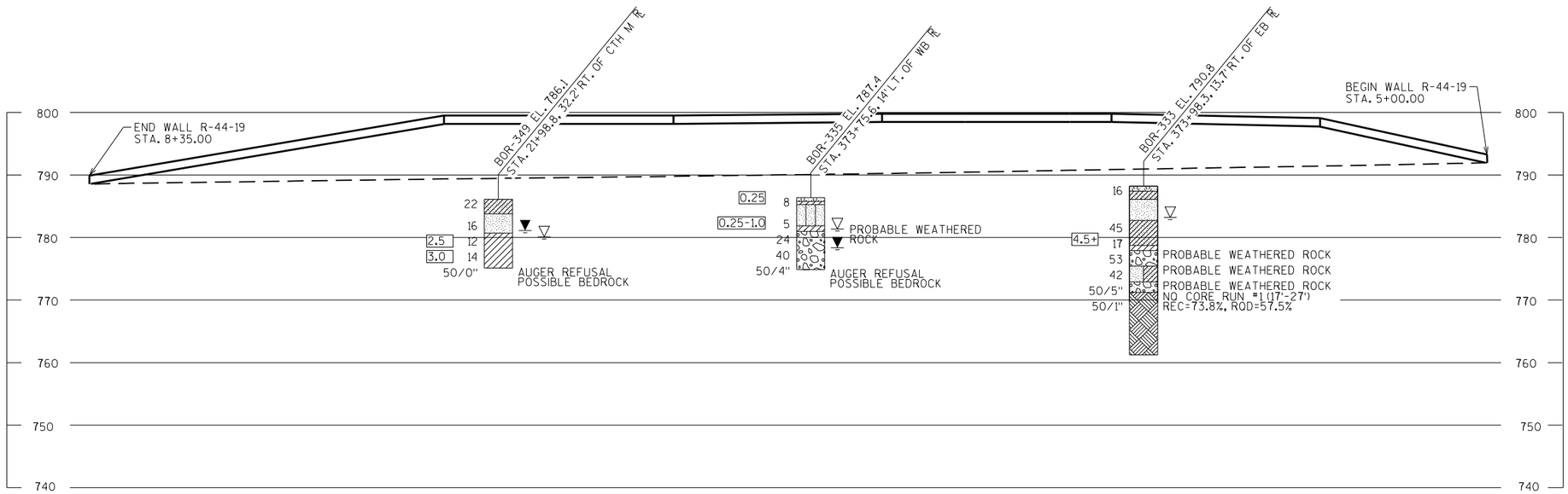
SCALE = 5.33

8

8

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			





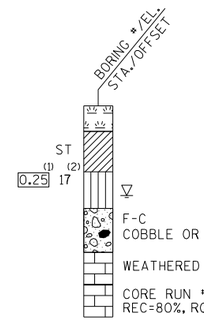
STATE PROJECT NUMBER

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.

SUBSURFACE EXPLORATION

SHEET 4

SCALE = 30.00

8

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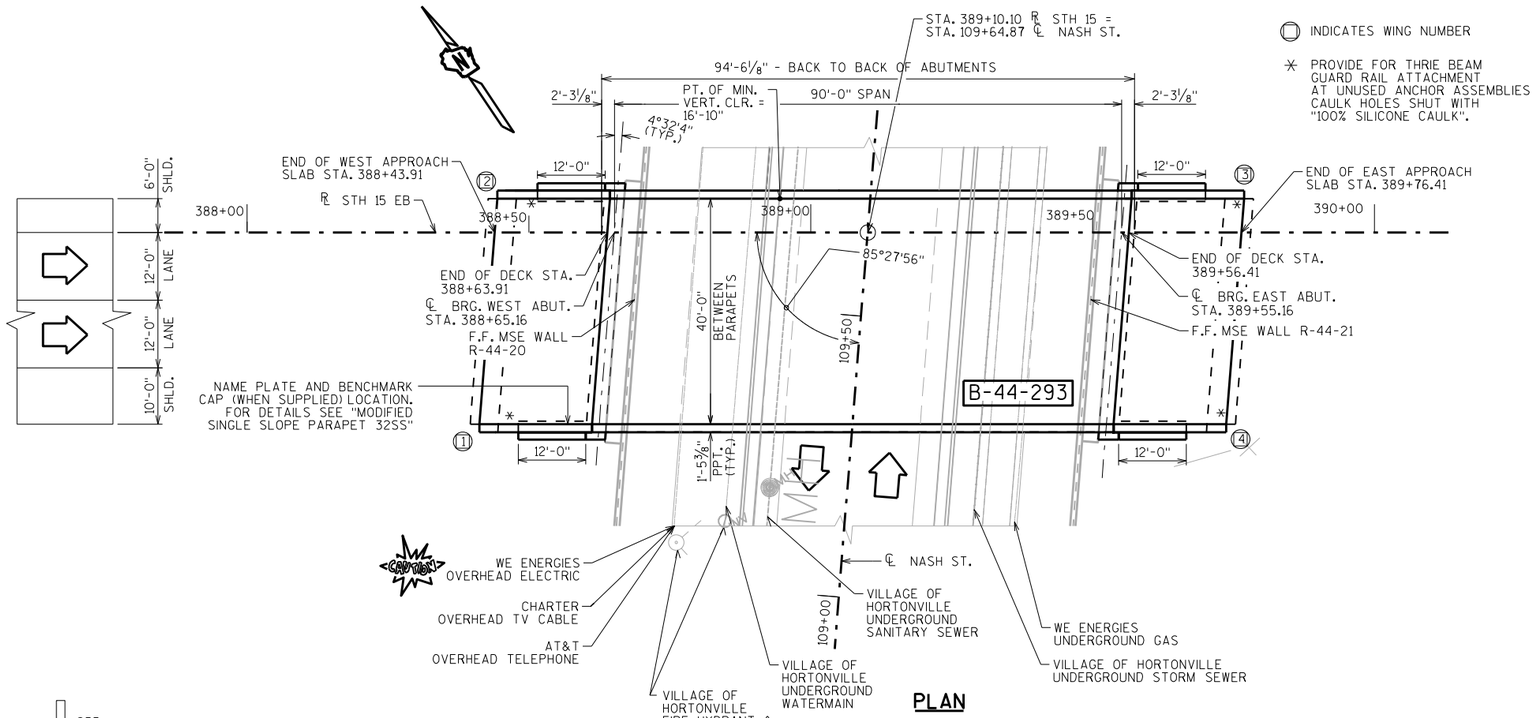
STATE PROJECT NUMBER

1146-75-71

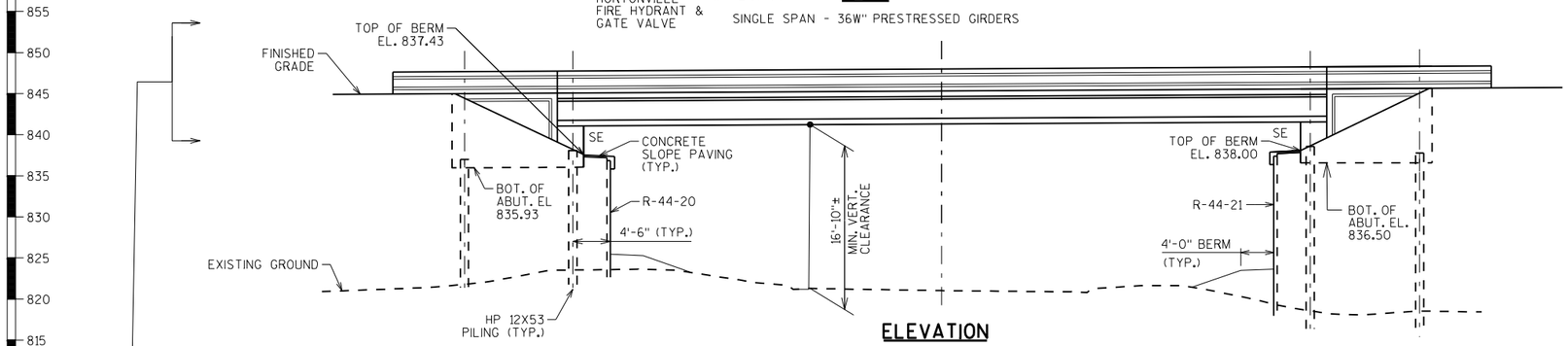


PLAN

SINGLE SPAN - 36W" PRESTRESSED GIRDERS

INDICATES WING NUMBER

✳ PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT AT UNUSED ANCHOR ASSEMBLIES CAULK HOLES SHUT WITH "100% SILICONE CAULK".



ELEVATION

NORMAL TO NASH ST. LOOKING NORTHEAST

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF=1.13
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 — 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.

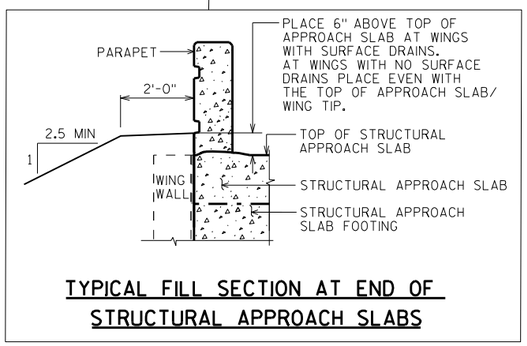
FOUNDATION DATA

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 25'-0" LONG AT THE WEST ABUTMENT, PILE POINTS REQUIRED.
ESTIMATED 30'-0" LONG AT THE EAST ABUTMENT, PILE POINTS REQUIRED.

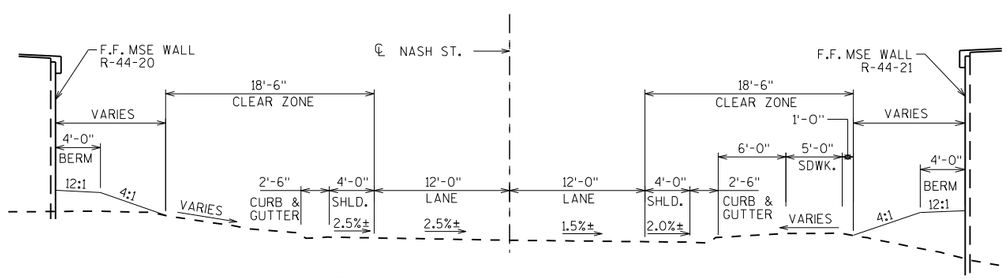
✳✳ THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

STH 15 EB	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.



TYPICAL FILL SECTION AT END OF STRUCTURAL APPROACH SLABS



TYPICAL SECTION THRU NASH ST.

NORMAL TO NASH ST. LOOKING NORTHEAST

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 32SS
14. WEST STRUCTURAL APPROACH SLAB
15. EAST STRUCTURAL APPROACH SLAB

STRUCTURE DESIGN CONTACTS:

JOHN SENDOR (608) 266-5163
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES

ACCEPTED _____ _____
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

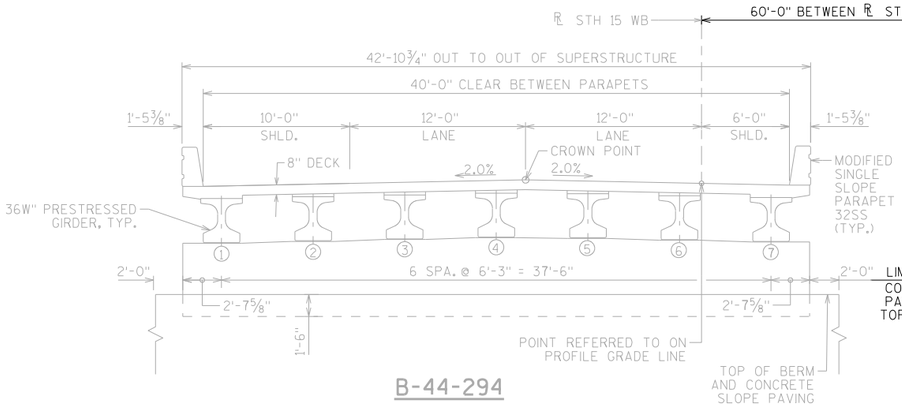
I.D. 1146-75-00B DATE: FEB. 2017

SCALE = 13.00

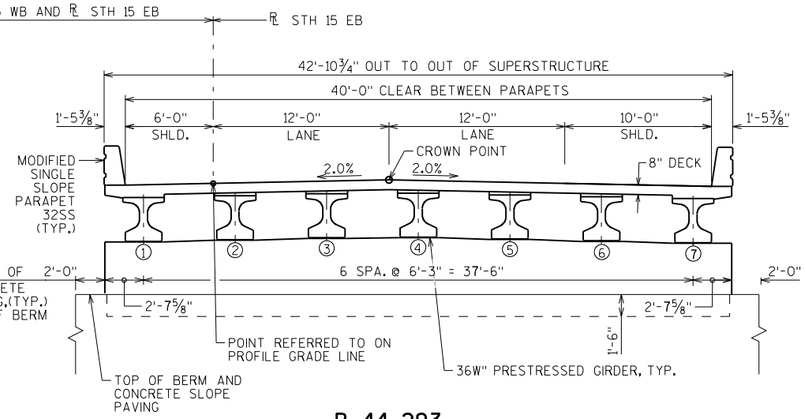
8

8

STATE PROJECT NUMBER
1146-75-71



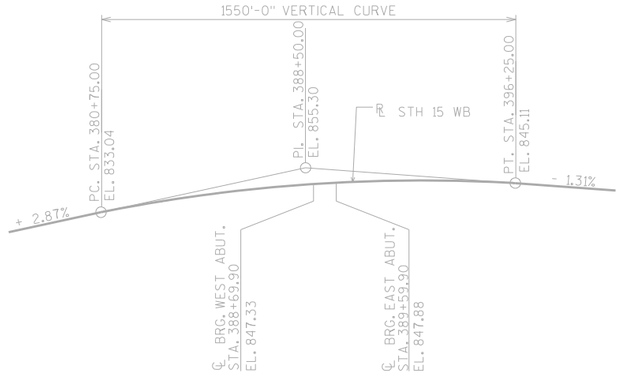
B-44-294



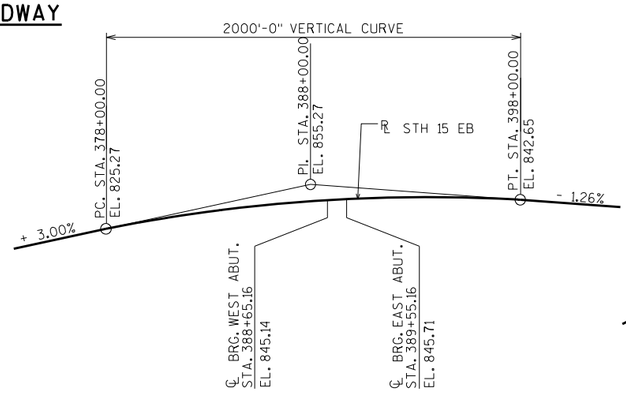
B-44-293

CROSS SECTION THRU ROADWAY

(LOOKING EAST)



PROFILE GRADE LINE STH 15 WB



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 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.

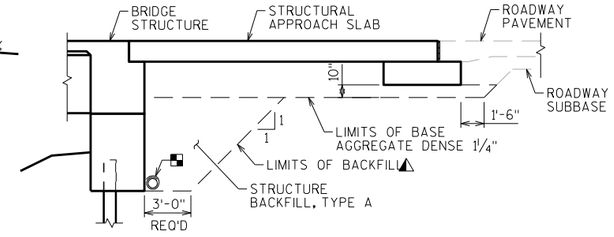
PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE AND THE TOP OF STRUCTURAL APPROACH SLABS.

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.

■ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.



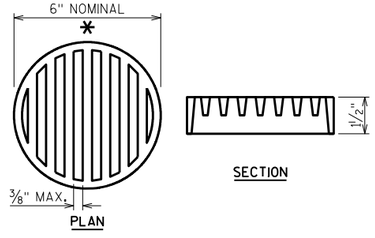
TYPICAL SECTION THRU ABUTMENT

(A1 ABUTMENT WITH STRUCTURAL APPROACH)

⚠ 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	———	———	110	110	———	220
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	———	133	———	———	133	266
502.0100	CONCRETE MASONRY BRIDGES	CY	171	59	50	50	59	389
502.3200	PROTECTIVE SURFACE TREATMENT	SY	433	90	———	———	90	613
502.3210	PIGMENTED SURFACE SEALER	SY	77	17	———	———	17	111
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF	637	———	———	———	———	637
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	———	———	2630	2630	———	5260
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	25650	10080	1510	1510	10080	48830
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	1470	———	———	———	———	1470
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
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	———	———	119	119	———	238
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	———	2	———	———	2	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

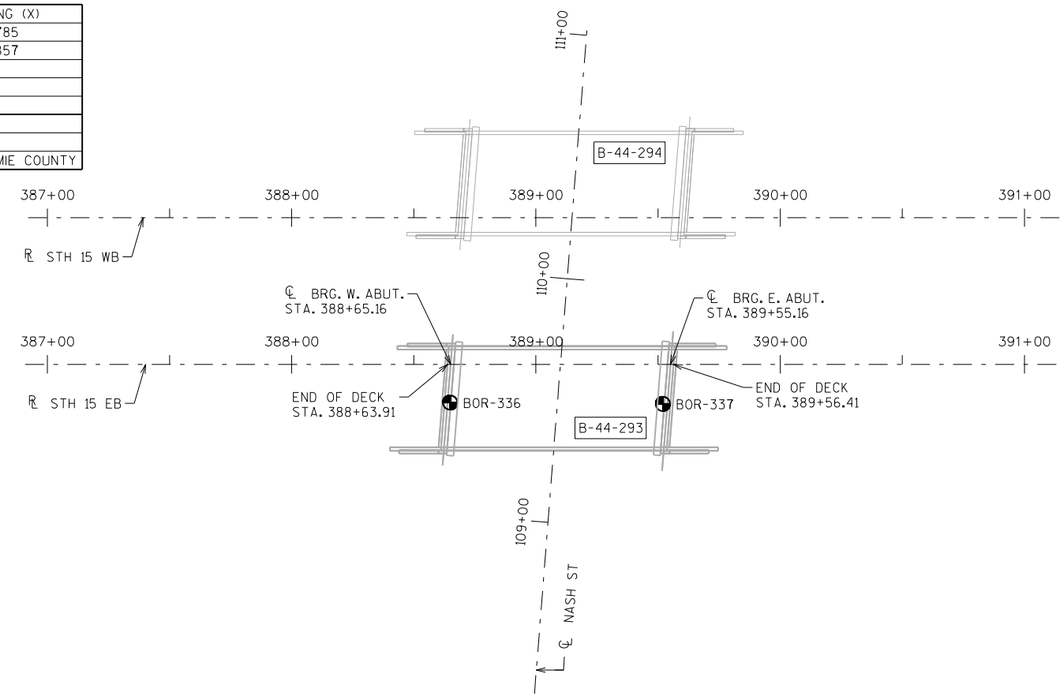
SHEET 2

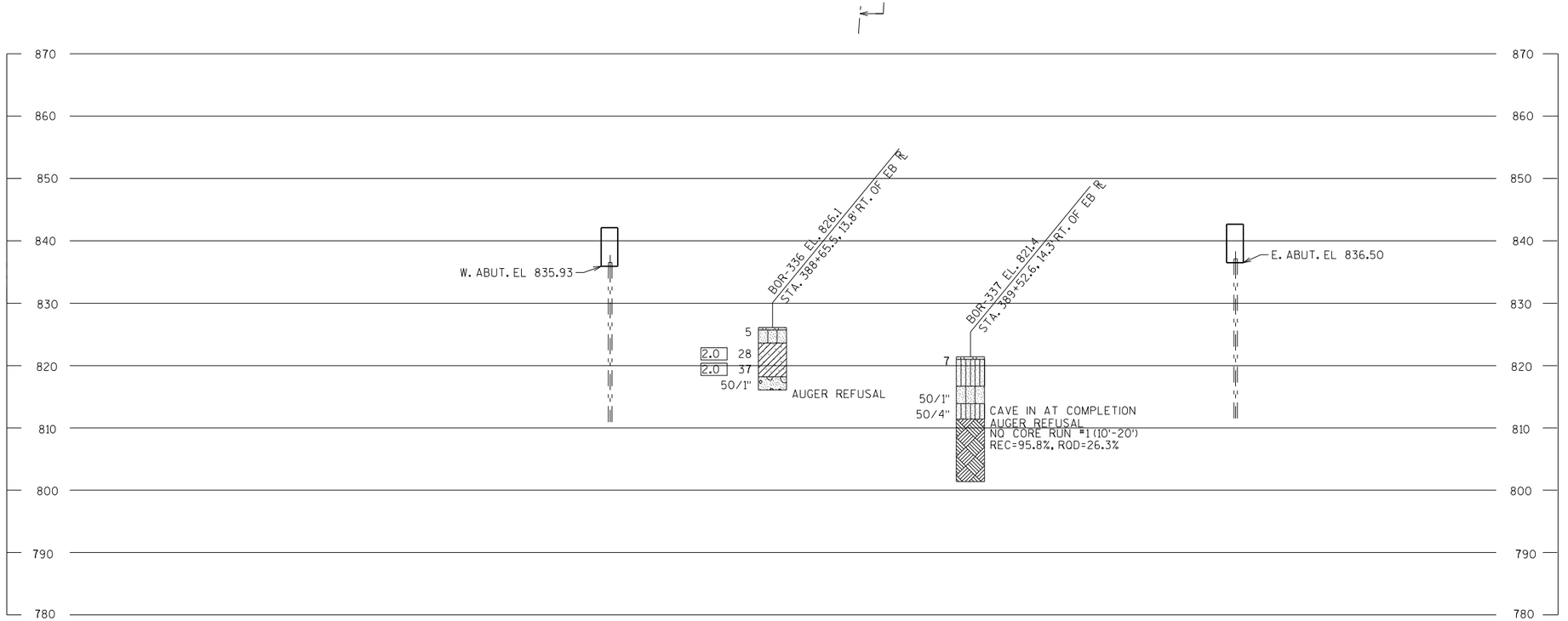
SCALE = 25.00

8

8

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			





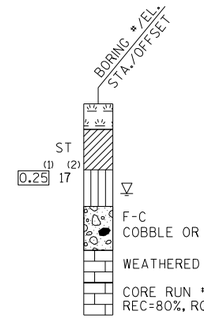
STATE PROJECT NUMBER

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

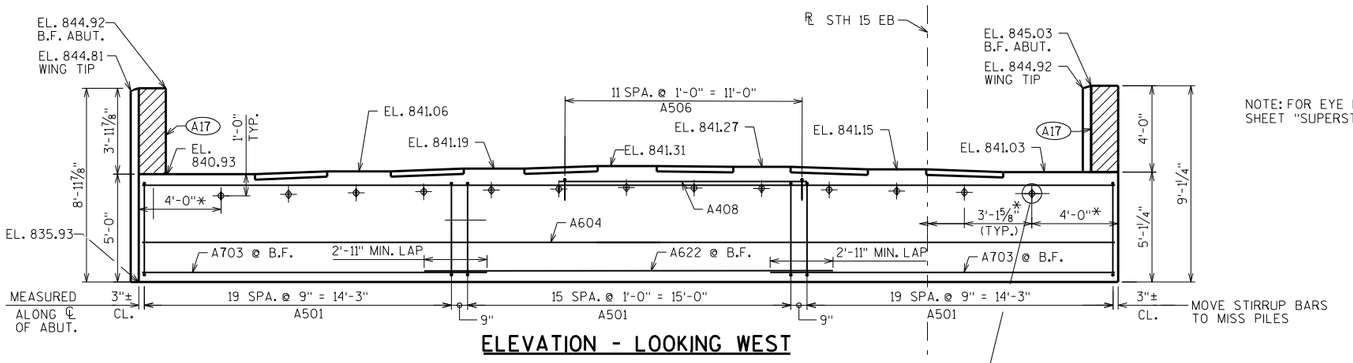
SCALE = 30.00

8

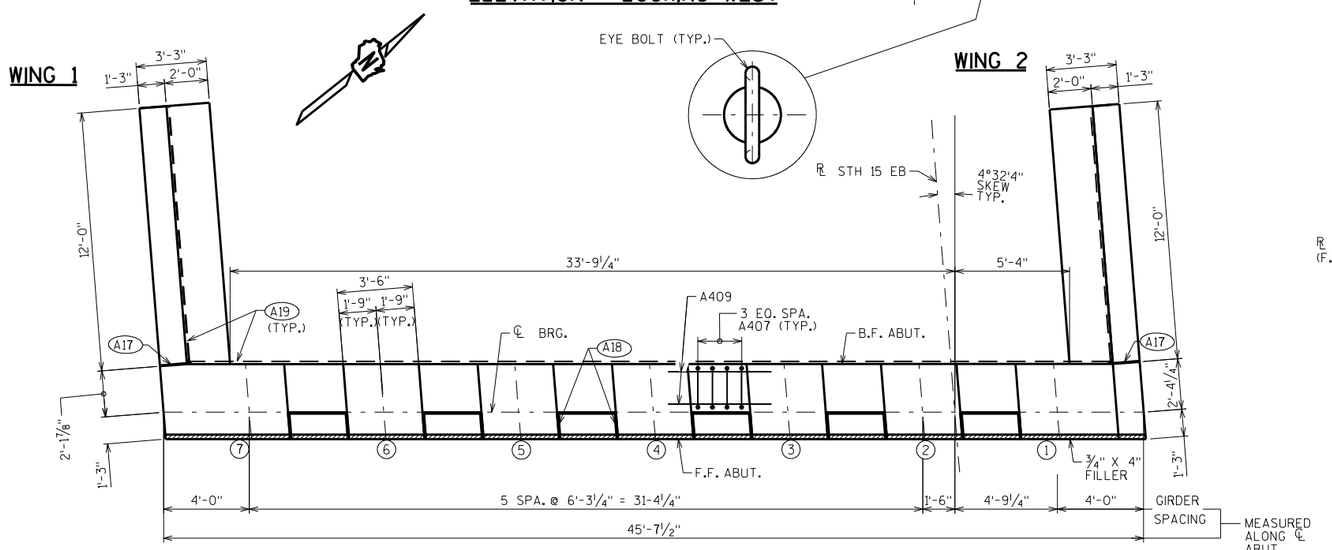
8

STATE PROJECT NUMBER

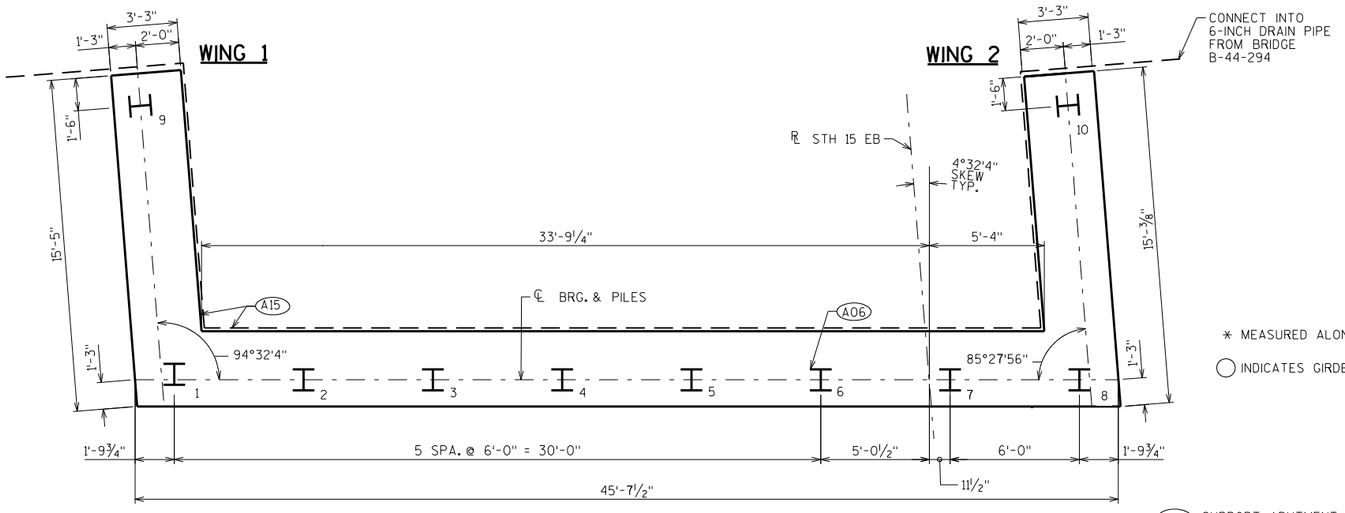
1146-75-71



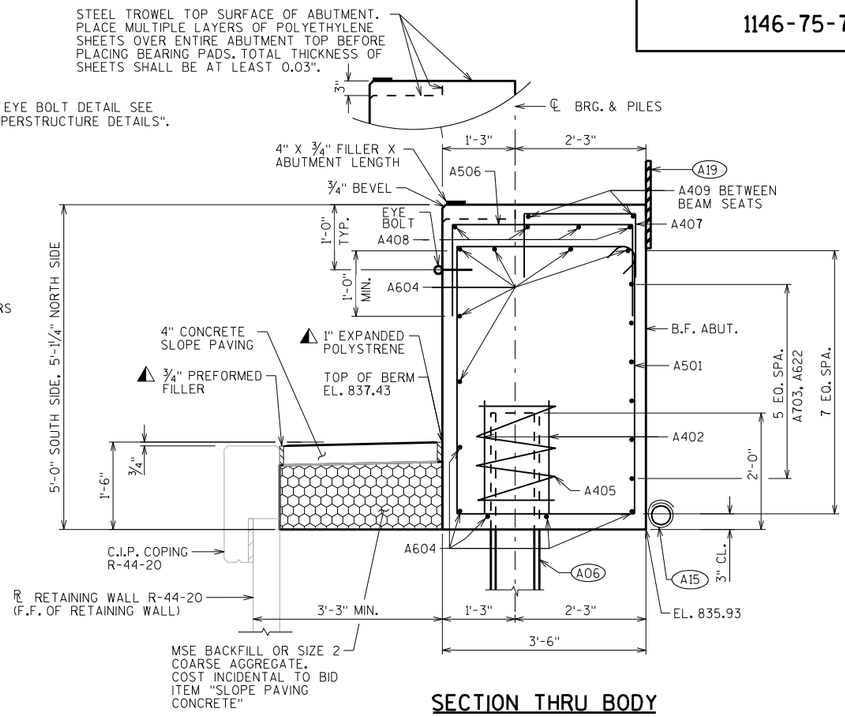
ELEVATION - LOOKING WEST



PLAN

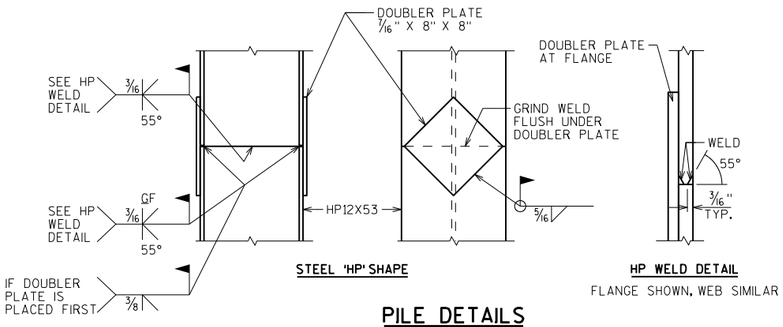


PILE PLAN



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.

(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.

(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

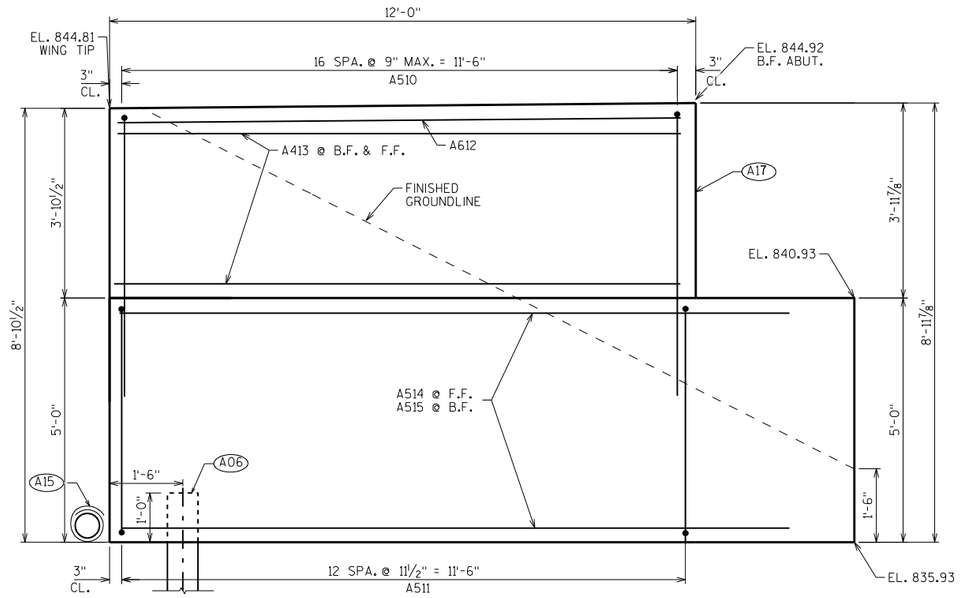
SCALE = 3.40

8

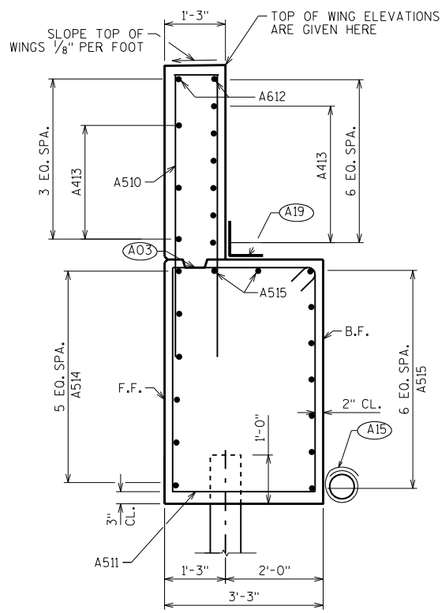
8

STATE PROJECT NUMBER

1146-75-71



WING 1 ELEVATION

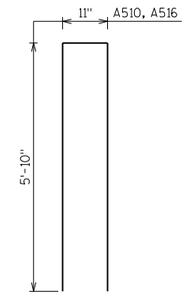


WING 1 SECTION

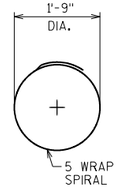
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

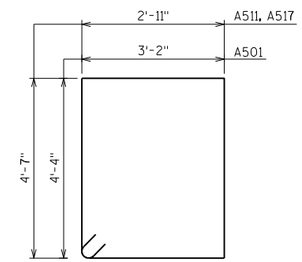
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A501		56	15'-8"	X		BODY- STIRRUPS
A402		16	2'-3"			BODY-VERT- AT BODY PILES
A703		12	16'-0"			BODY-HORIZ. B.F.
A604		11	45'-3"			BODY-HORIZ.
A405		8	28'-0"	X		BODY-VERT. AT BODY PILES
A506		12	6'-3"	X		BODY-VERT. UND. BM. SEATS 3 & 4
A407		24	4'-7"	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.



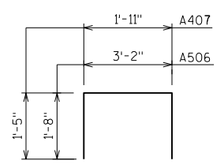
A510, A516



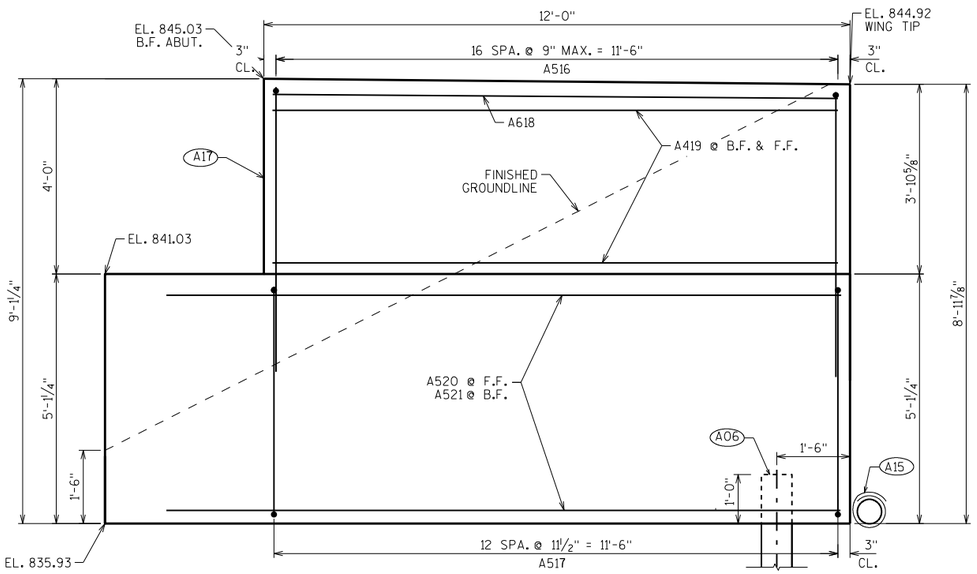
A405



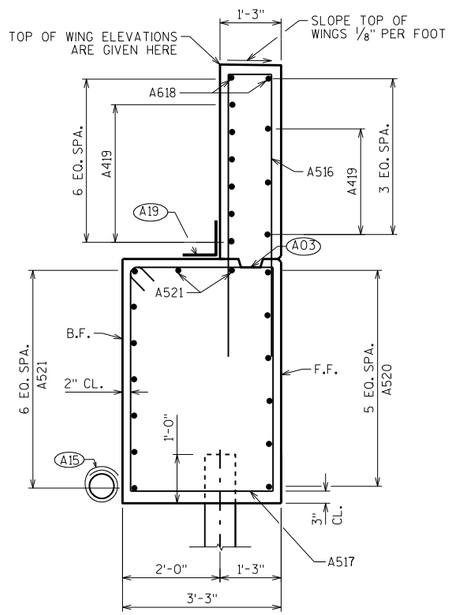
A501, A511, A517



A407, A506



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.

(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-44-293

DRAWN BY JJS | PLANS CK'D. SEW

WEST ABUTMENT DETAILS

SHEET 5

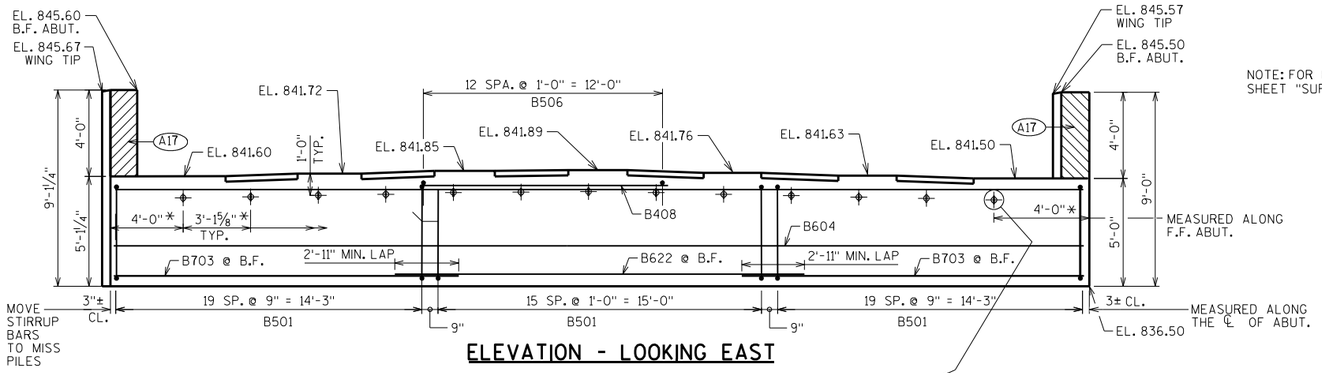
SCALE = 1.50

8

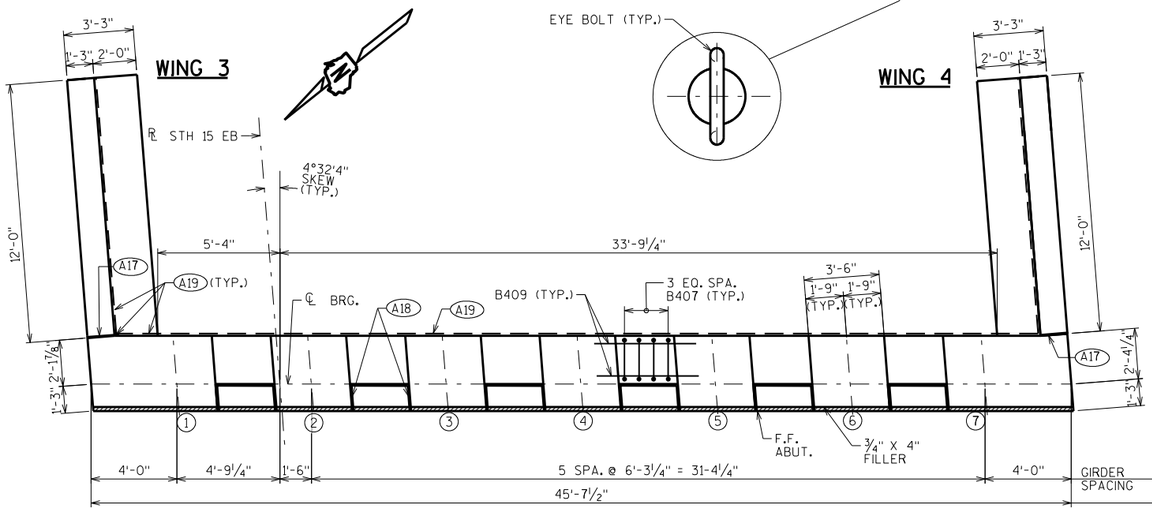
8

STATE PROJECT NUMBER

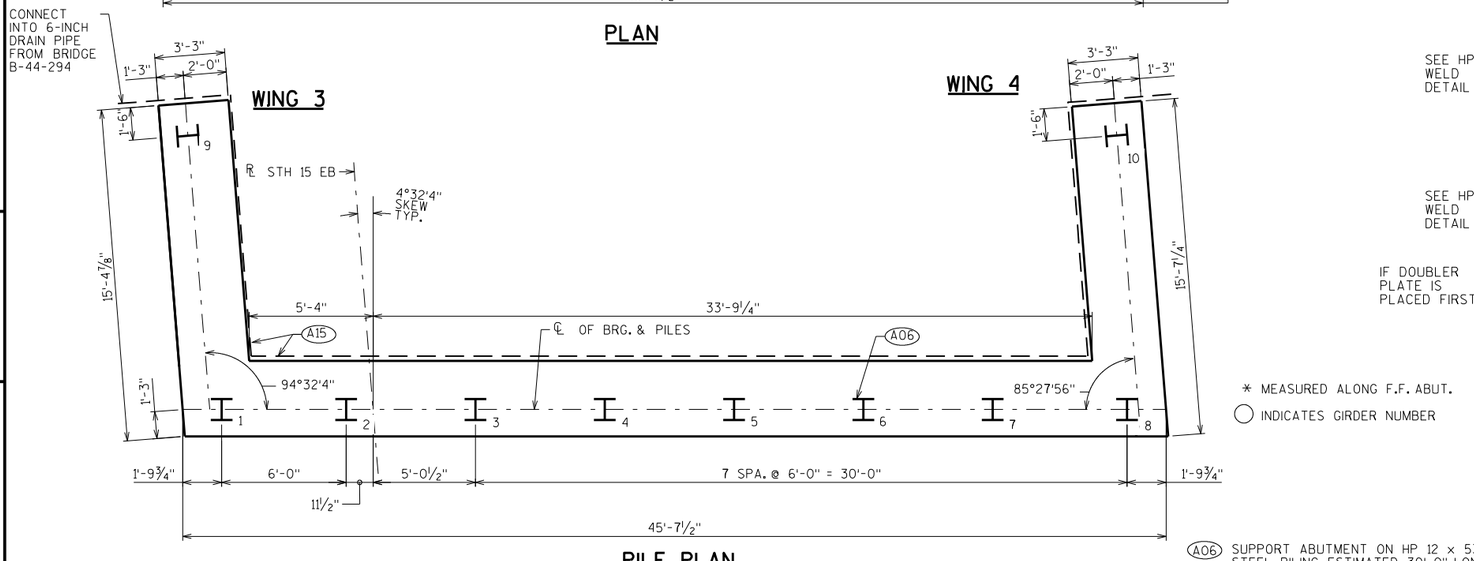
1146-75-71



ELEVATION - LOOKING EAST



PLAN

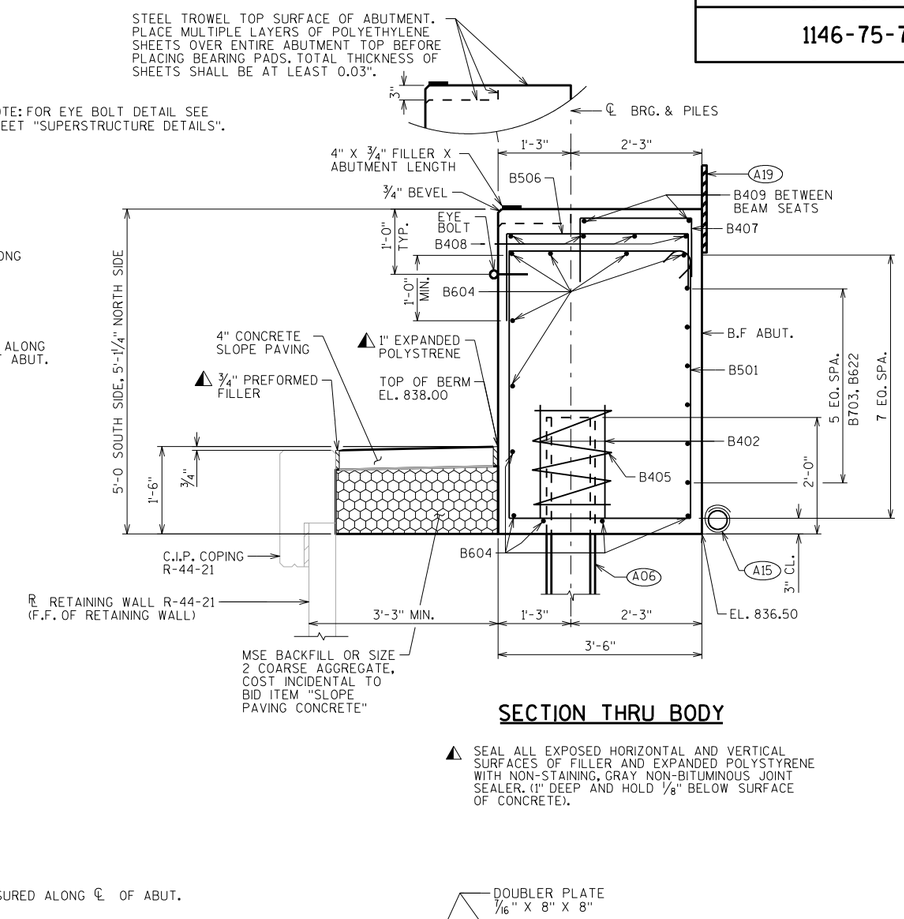


PILE PLAN

* MEASURED ALONG F.F. ABUT.

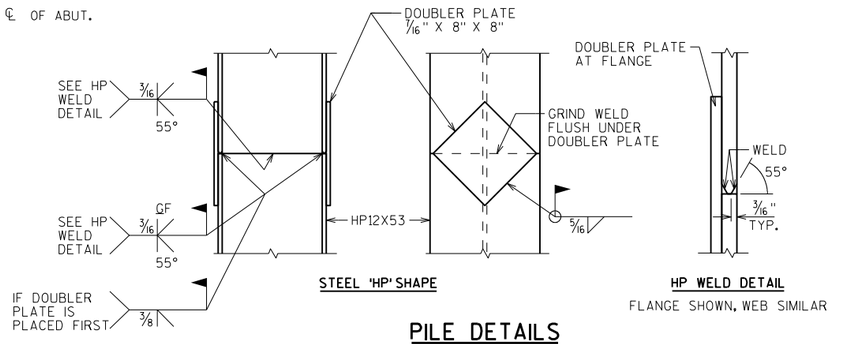
◯ INDICATES GIRDER NUMBER

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

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.

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

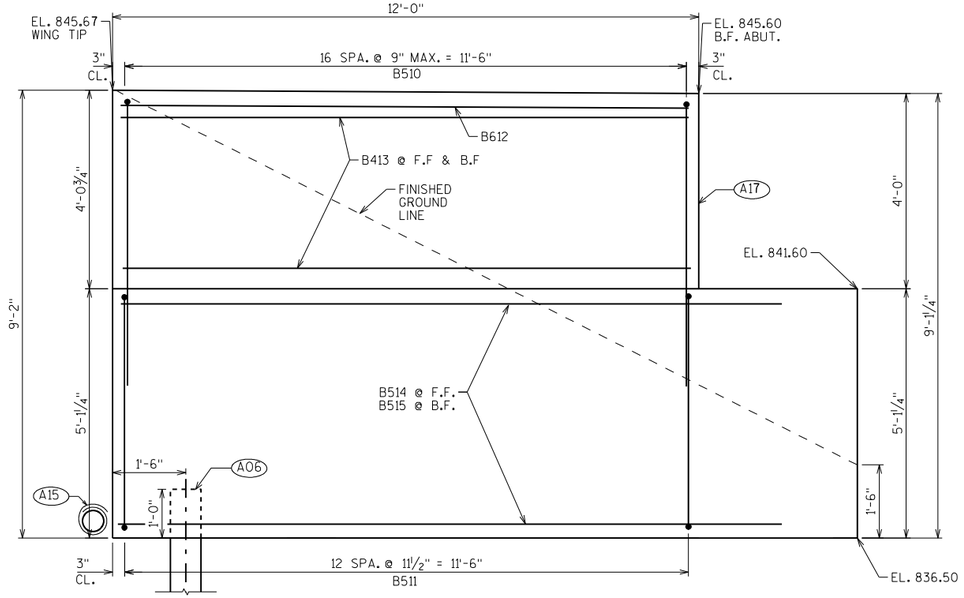
SCALE = 3.40

8

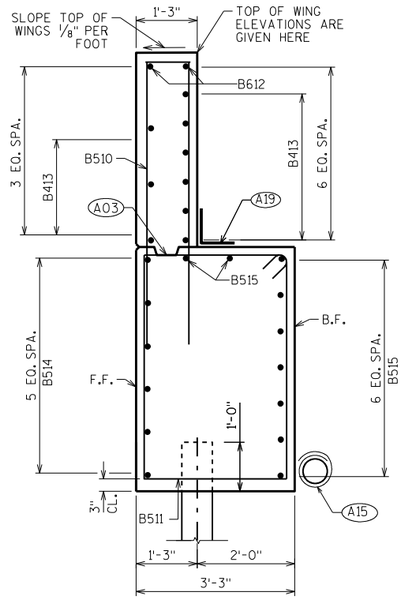
8

STATE PROJECT NUMBER

1146-75-71



WING 3 ELEVATION

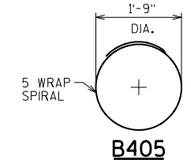


WING 3 SECTION

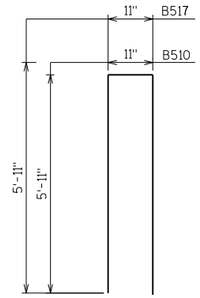
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

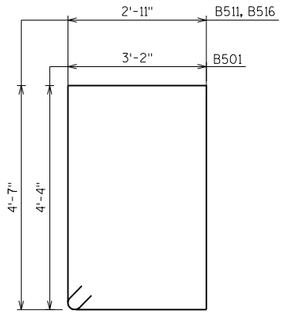
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		56	15'-8"	X		BODY- STIRRUPS
B402		16	2'-3"			BODY-VERT- AT BODY PILES
B703		12	16'-0"			BODY-HORIZ. B.F.
B604		11	45'-3"			BODY-HORIZ.
B405		8	28'-0"	X		BODY-VERT. AT BODY PILES
B506		13	6'-3"	X		BODY-VERT. UND. BM. SEATS 3 & 4
B407		24	4'-7"	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.



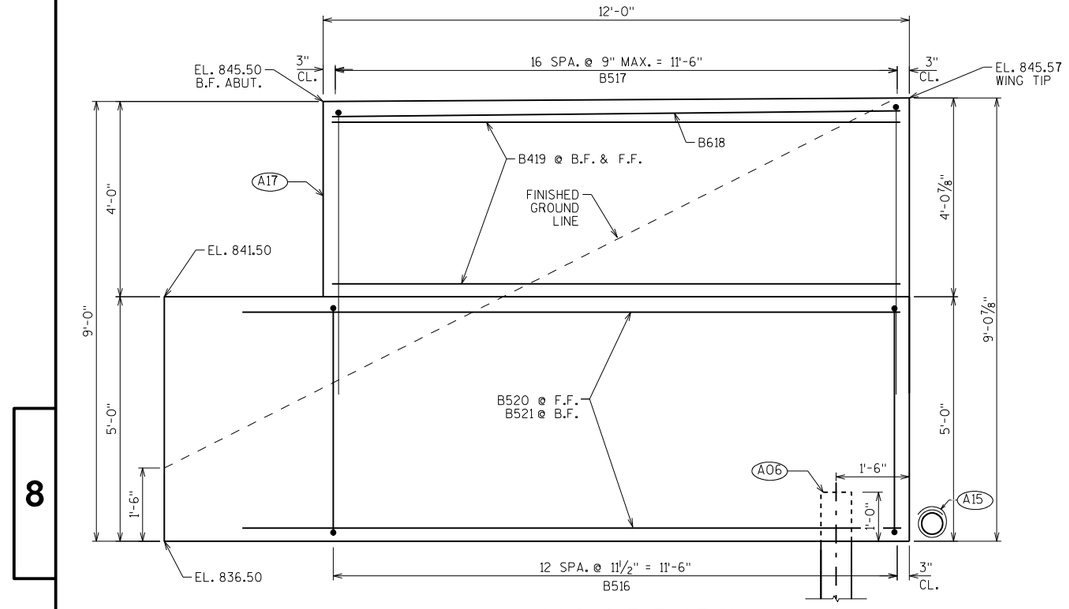
B405



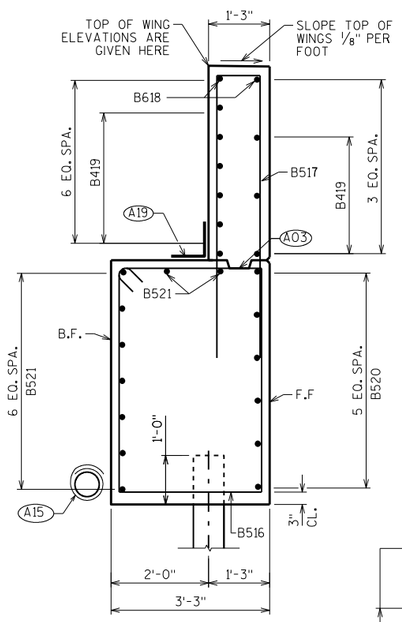
B510, B517



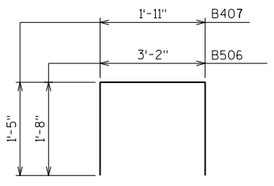
B501, B511, B516



WING 4 ELEVATION



WING 4 SECTION



B407, B506

(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.

(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.

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 DETAILS

SHEET 7

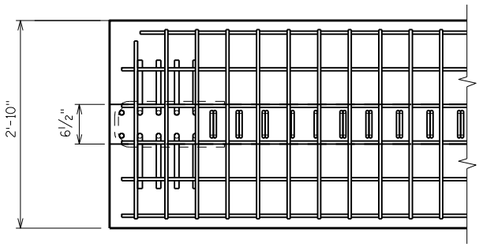
SCALE = 1.50

8

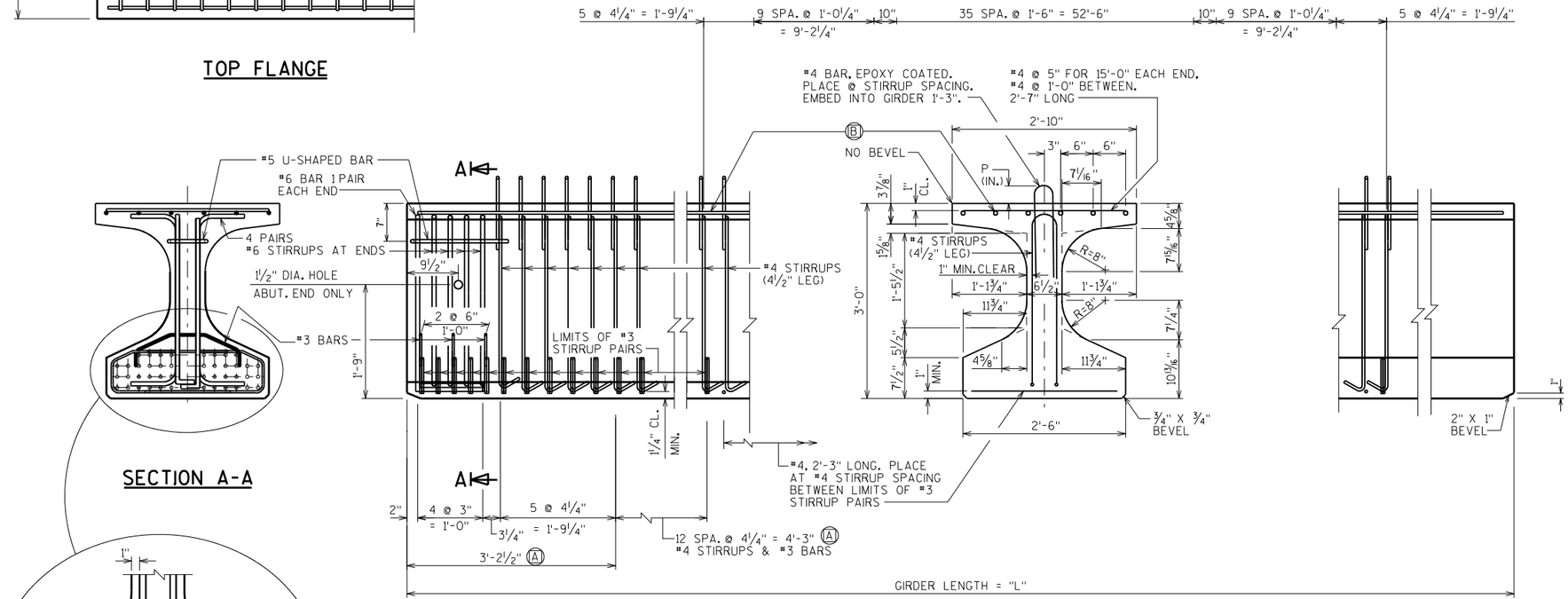
8

STATE PROJECT NUMBER

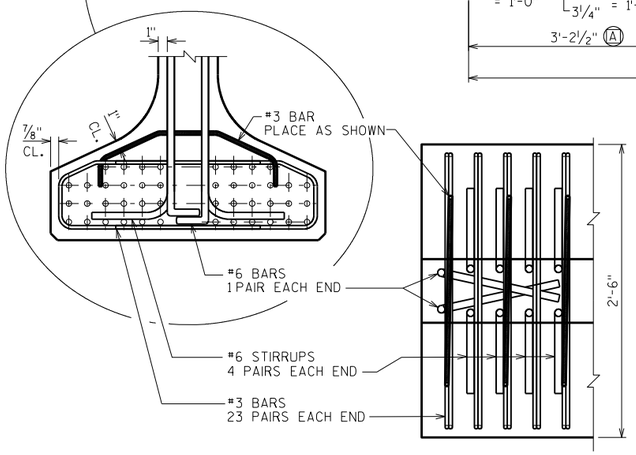
1146-75-71



TOP FLANGE



SECTION A-A

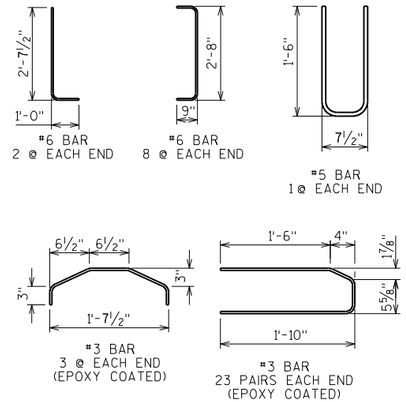


BOTTOM FLANGE

SIDE VIEW & TYPICAL SECTION IN SPAN

Ⓐ DETAIL TYP. AT EACH END

Ⓑ 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	1.8	1.8	1.5	1.1	0.6	8,000	8	7	8	0.6	30	6,800	32	11	14	4		

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 1

SHEET 8

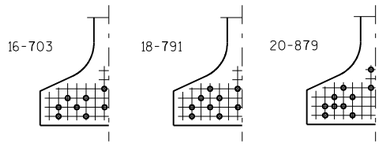
SCALE = 1.00

8

8

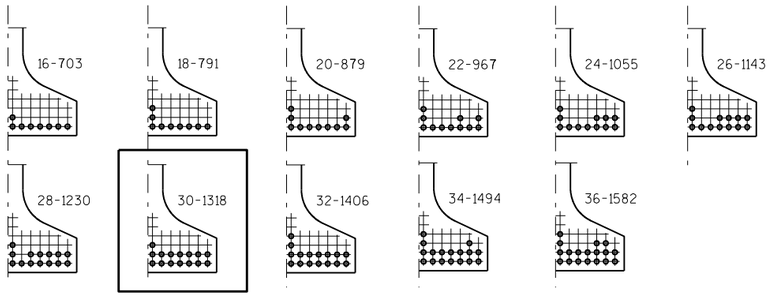
STATE PROJECT NUMBER

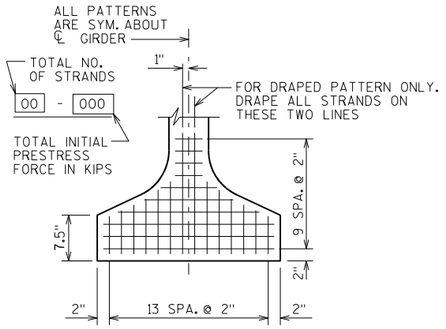
1146-75-71



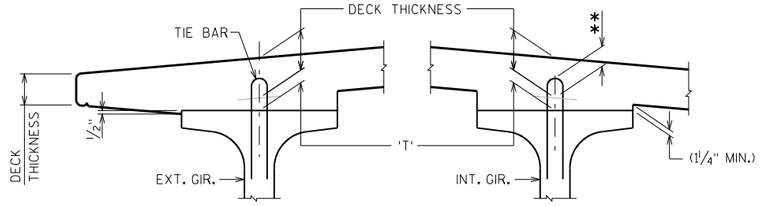
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

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.

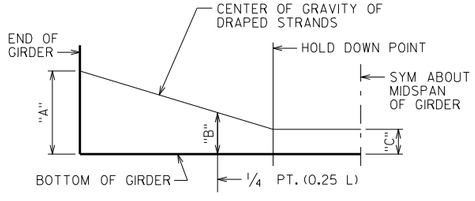
TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

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 3.04" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".

ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6" DIA. STRANDS



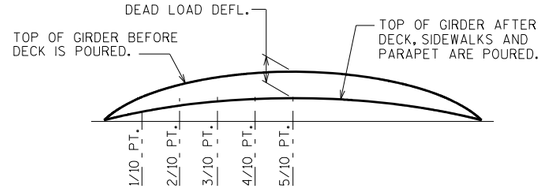
DRAPED STRAND PROFILE

*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	3.49

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

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

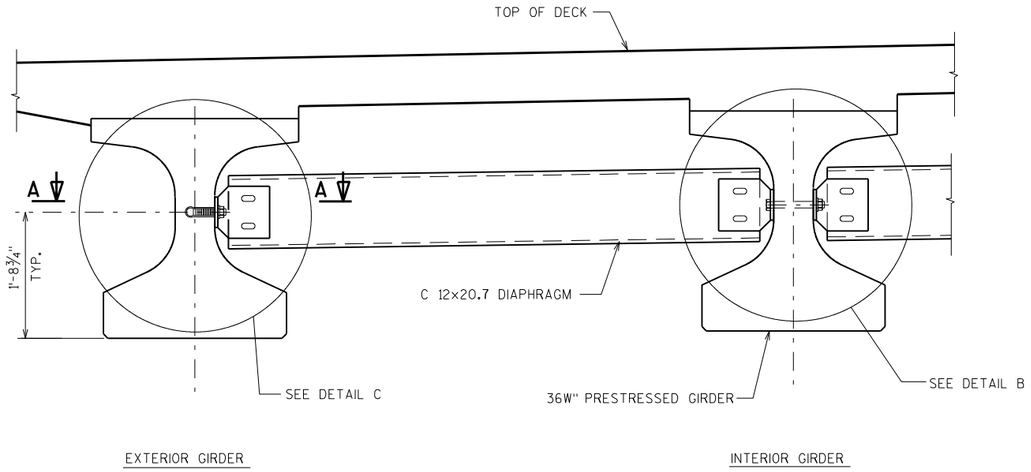
SCALE = 1.00

8

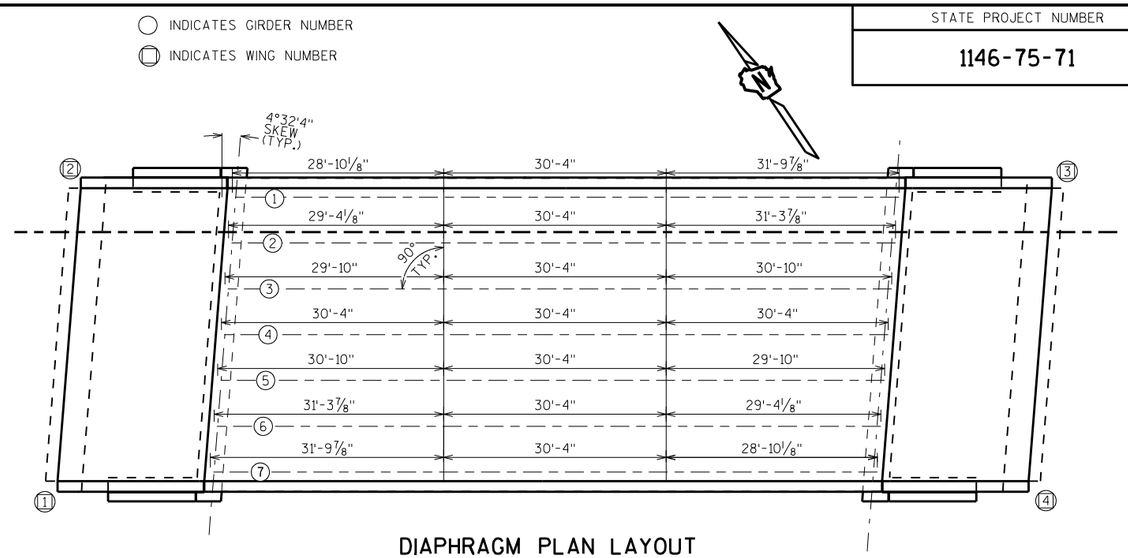
8

STATE PROJECT NUMBER

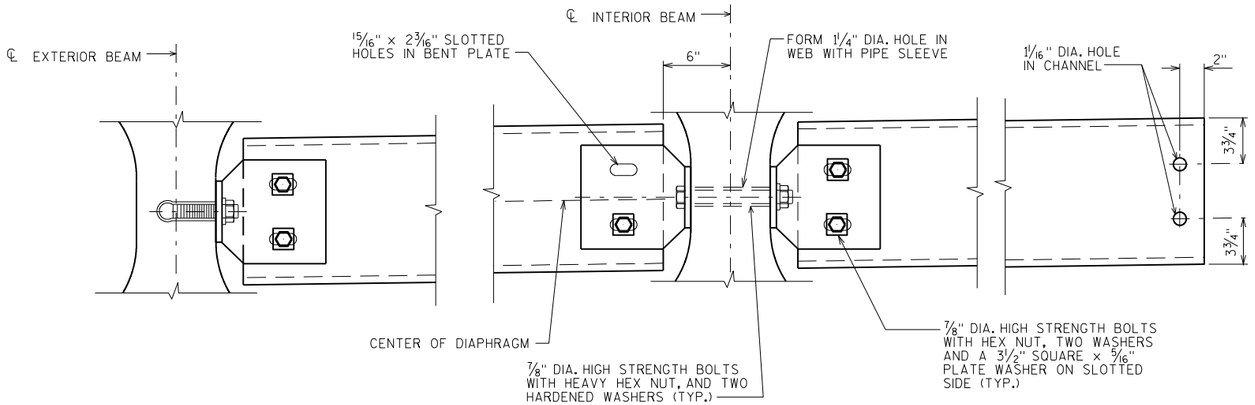
1146-75-71



PART TRANSVERSE SECTION AT DIAPHRAGM



DIAPHRAGM PLAN LAYOUT



DETAIL C

DETAIL B

NOTES

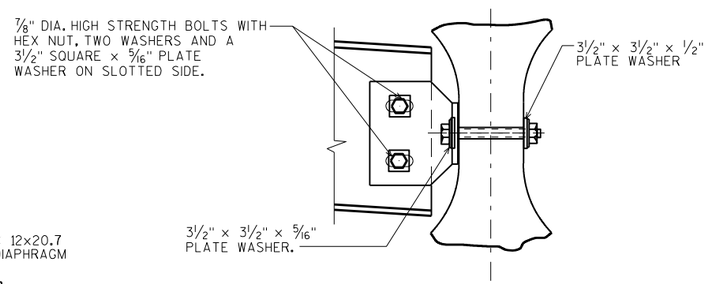
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-44-293", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

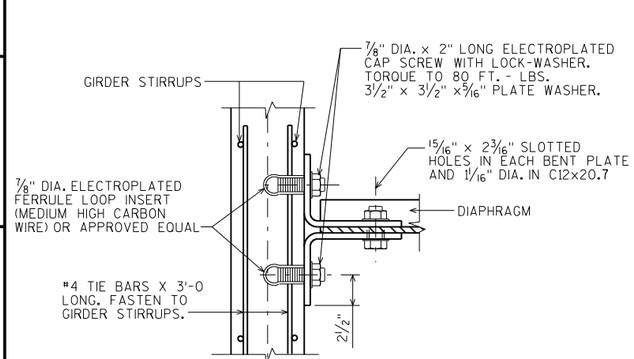
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

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.

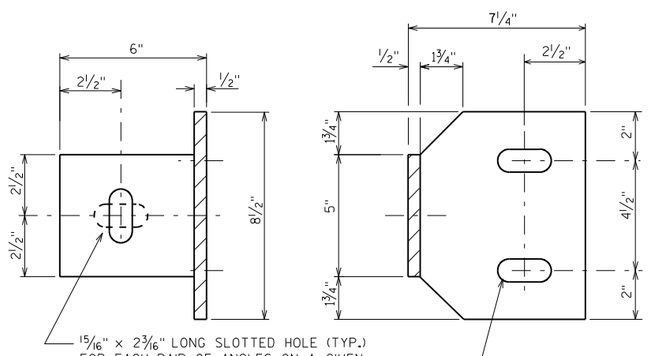


SECTION AT INTERIOR GIRDERS THRU DIAPHRAGM FOR SKEW ANGLES > 10°



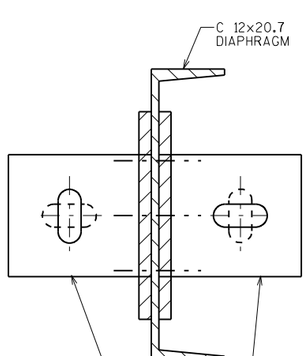
SECTION A-A

(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

DRAWN BY JJS | PLANS CK'D. SEW

STEEL DIAPHRAGM

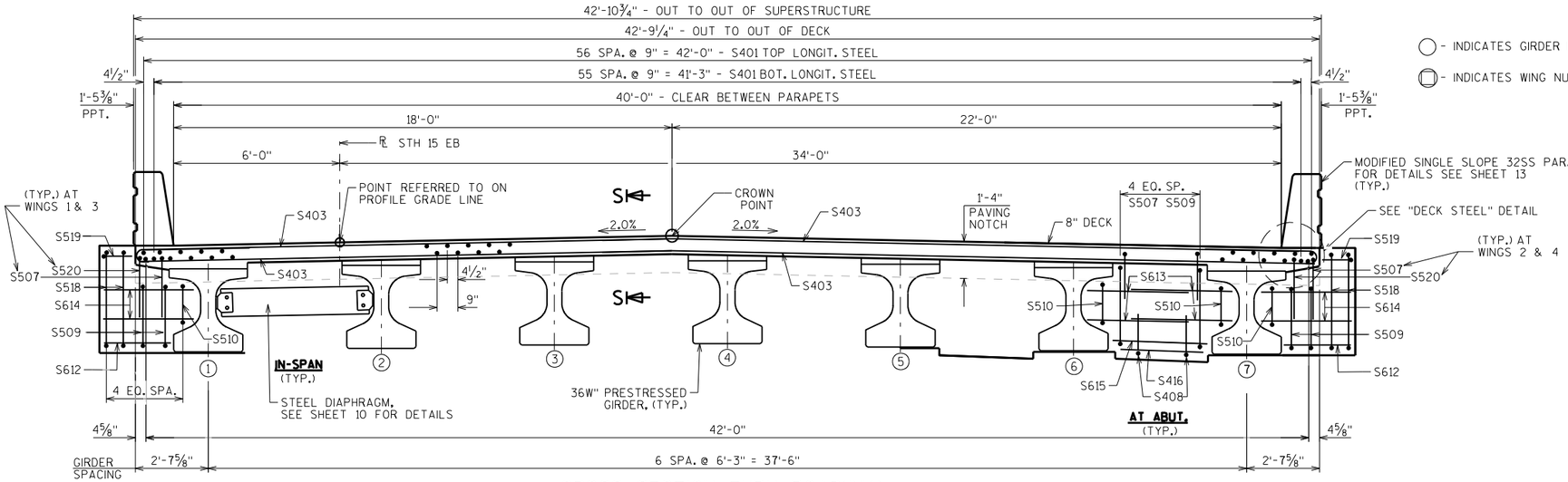
SHEET 10

SCALE = 1.00

8

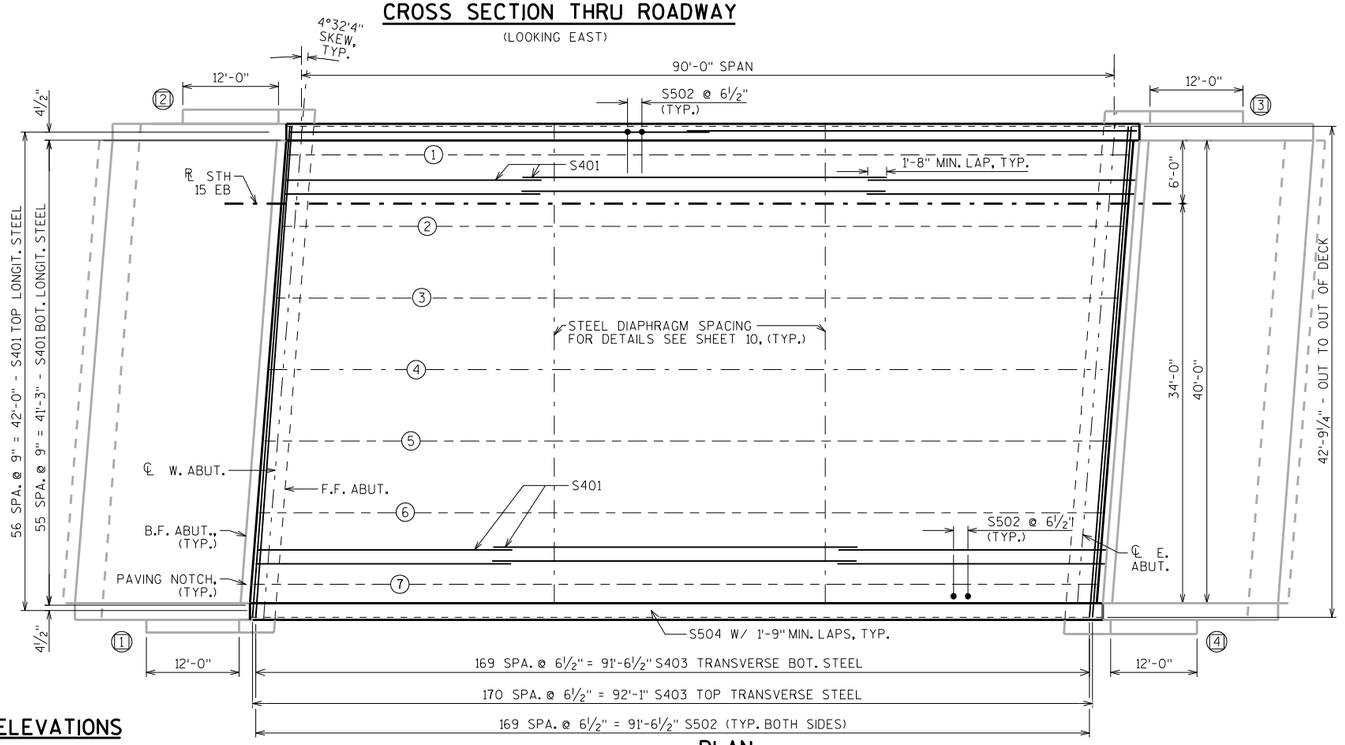
8

STATE PROJECT NUMBER
1146-75-71



CROSS SECTION THRU ROADWAY

(LOOKING EAST)



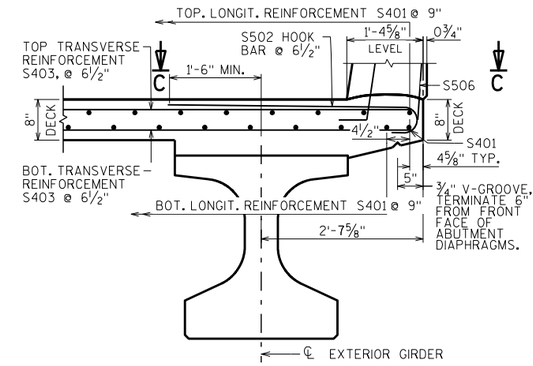
PLAN

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

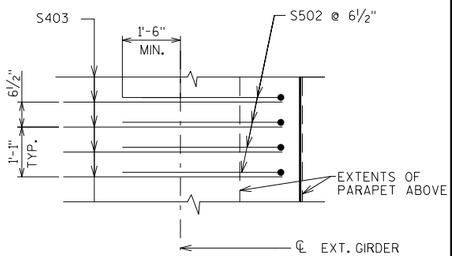
○ - INDICATES GIRDER NUMBER

⬡ - INDICATES WING NUMBER

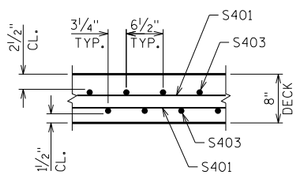


DECK STEEL DETAIL

(TYP. AT BOTH EDGES)



PLAN C-C



SECTION S-S

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

SHEET 11

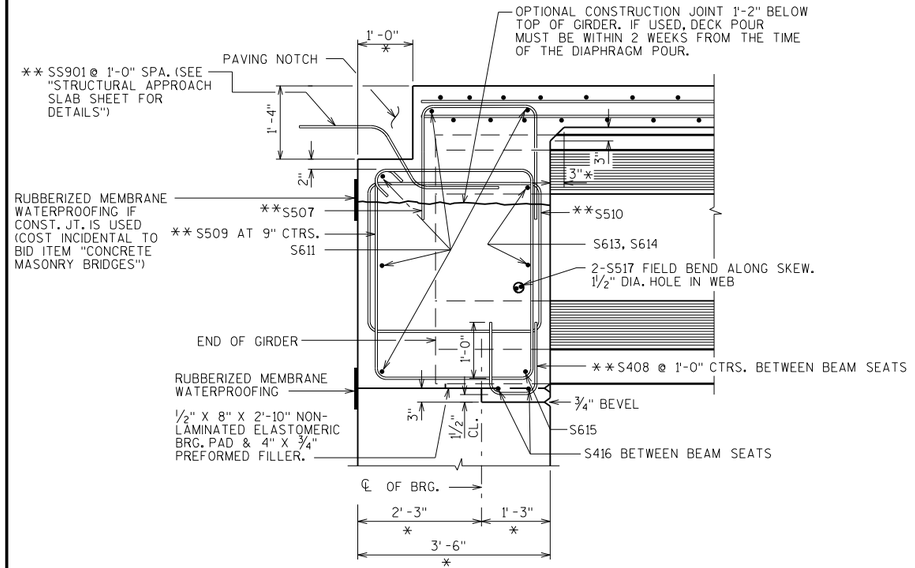
SCALE = 2.40

8

8

STATE PROJECT NUMBER

1146-75-71

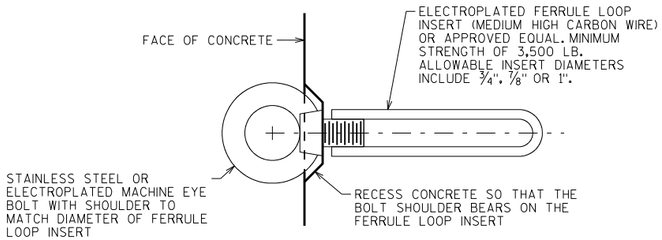


AT ABUTMENTS

PART LONGIT. SECTION

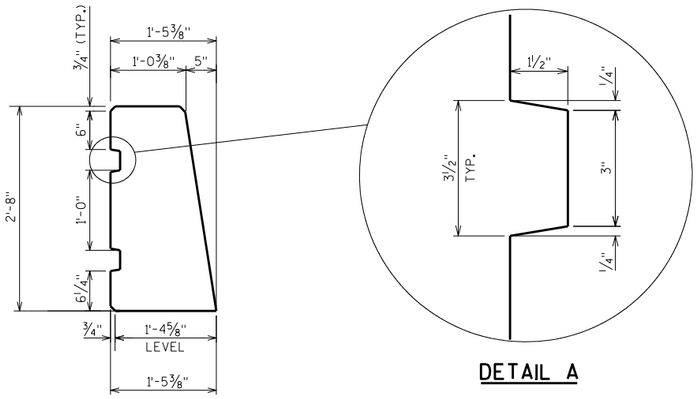
* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

** BARS PLACED PARALLEL TO GIRDERS SPACING PERPENDICULAR TO ℄ GIRDERS



EYE BOLT DETAIL

COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".



MODIFIED 32SS PARAPET

DETAIL A

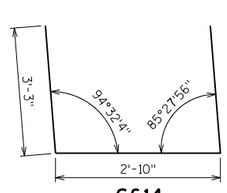
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

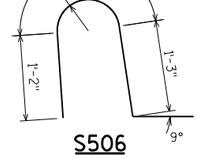
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S401	X	345	31'-10"			LONGITUNDINAL TOP & BOTTOM
S502	X	340	4'-7"	X		TRANSVERSE EDGE OF DECK TOP
S403	X	341	42'-5"			TRANSVERSE TOP AND BOTTOM
S504	X	24	47'-0"			PARAPET 32SS -HORIZ.
S505	X	278	5'-0"	X		PARAPET 32SS - VERT.
S506	X	278	4'-5"	X		PARAPET 32SS -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



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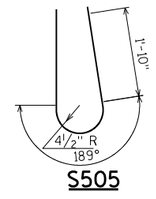

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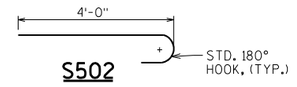
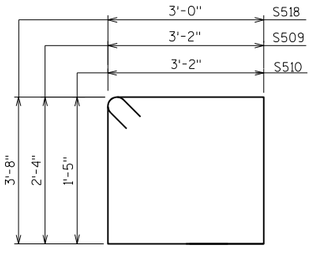
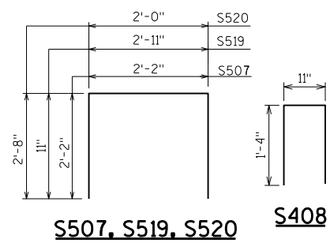


S502

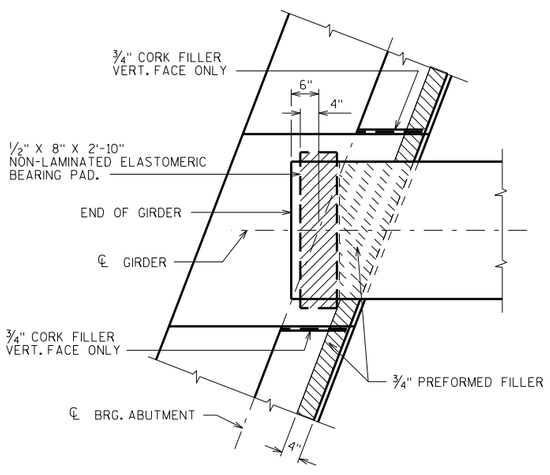


S509, S510, S518

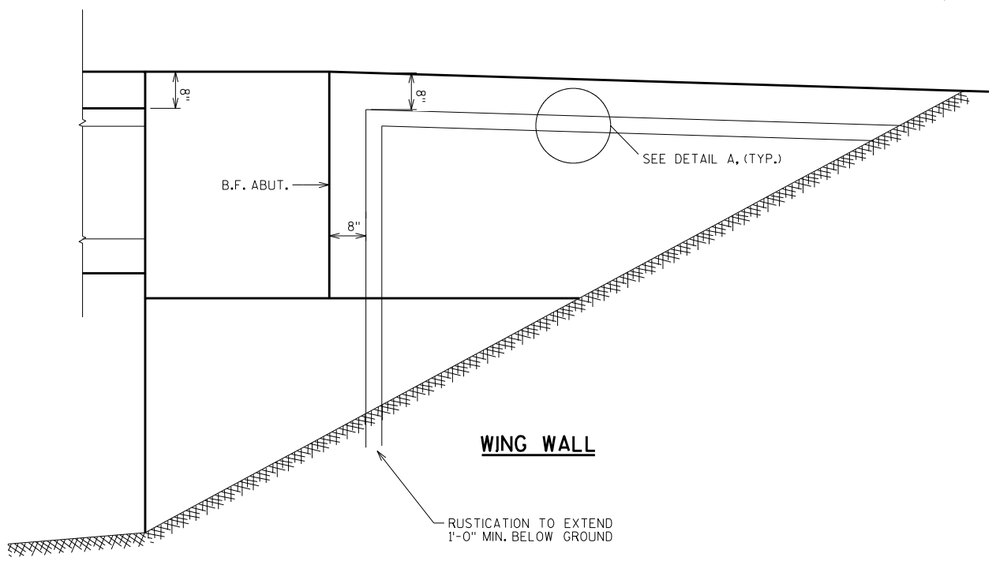


S507, S519, S520

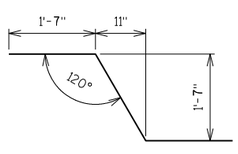
S408



BEARING PAD DETAIL



WING WALL



SS901

(STAINLESS STEEL)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-293

DRAWN BY JJS | PLANS CK'D. SEW

SUPERSTRUCTURE DETAILS

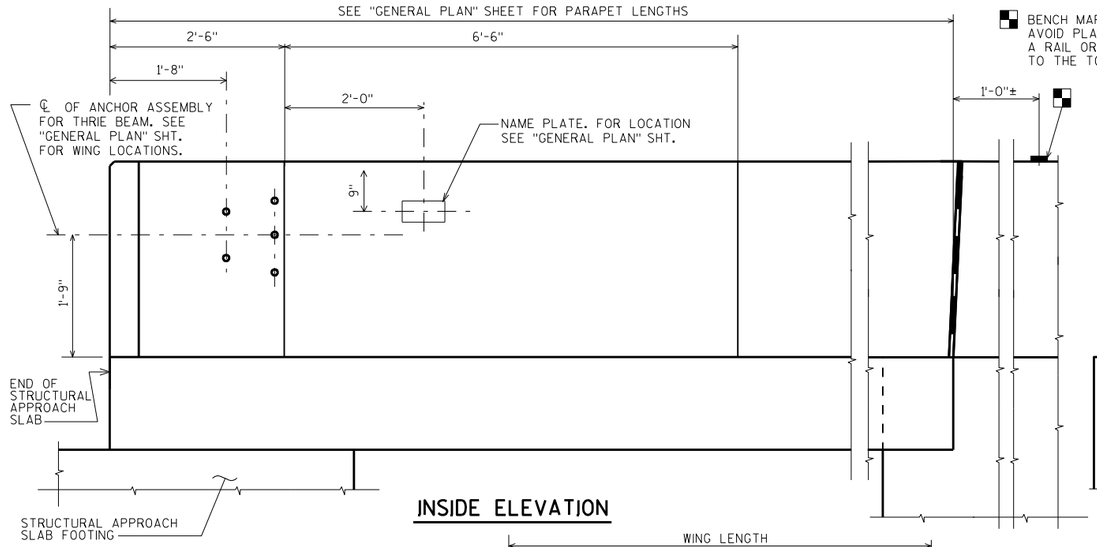
SHEET 12

SCALE = 1.33

8

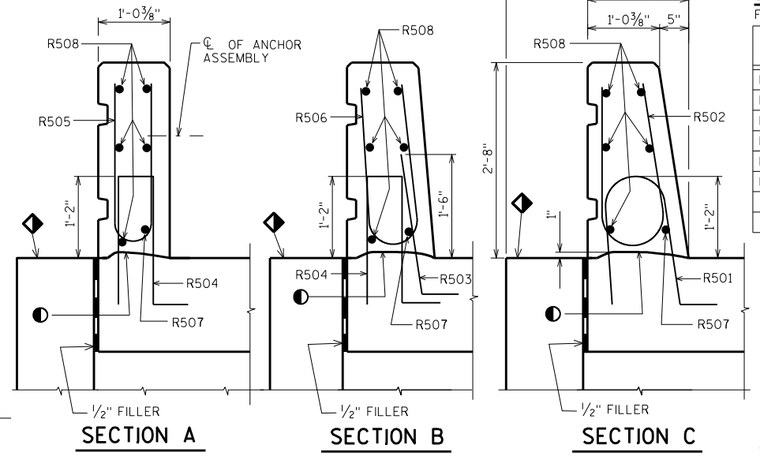
8

STATE PROJECT NUMBER
1146-75-71



INSIDE ELEVATION

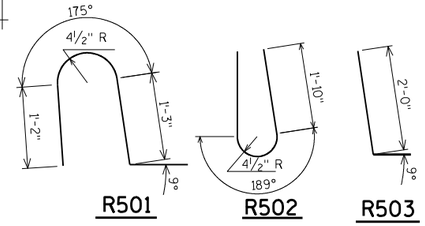
BENCH MARK CAP (WHEN SUPPLIED). AVOID PLACING A BENCH MARK CAP BELOW A RAIL OR FENCE SYSTEM THAT IS ATTACHED TO THE TOP OF THE PARAPET.

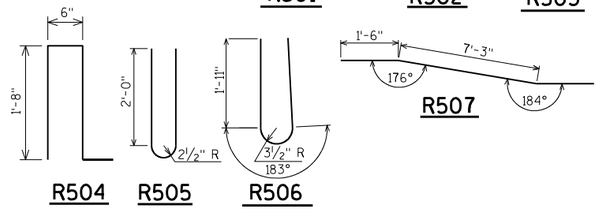


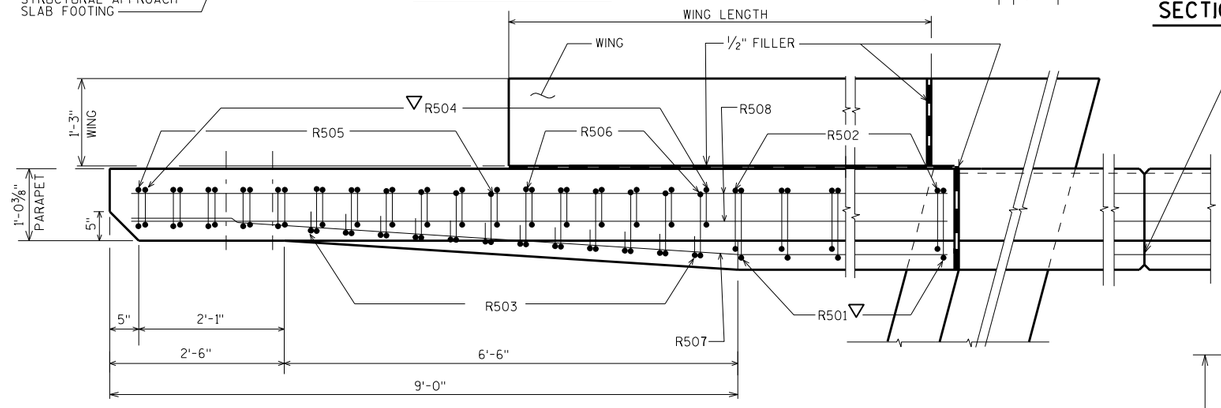
BILL OF BARS

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	5'-0"	X		PARAPET VERT.
R503	X	24	24	2'-9"	X		PARAPET VERT.
R504	X	34	34	4'-4"	X		PARAPET VERT.
R505	X	22	22	4'-9"	X		PARAPET VERT.
R506	X	12	12	4'-10"	X		PARAPET VERT.
R507	X	2	2	19'-6"	X		PARAPET HORIZ.
R508	X	10	10	19'-6"			PARAPET HORIZ.

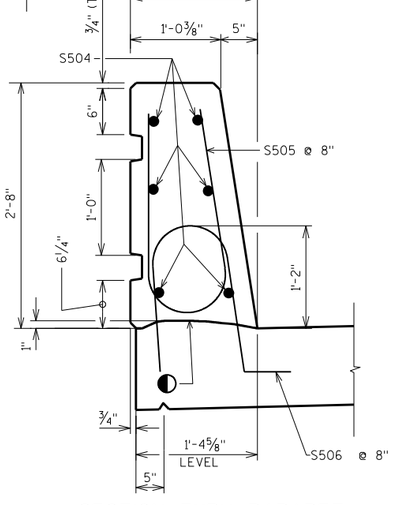




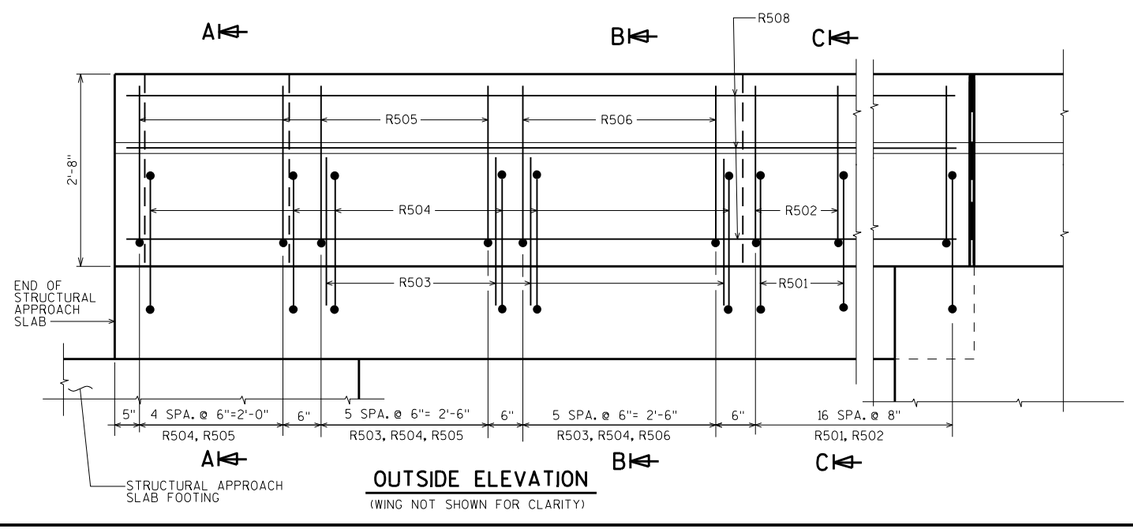


PLAN

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 ¾" - 'V' GROOVE.

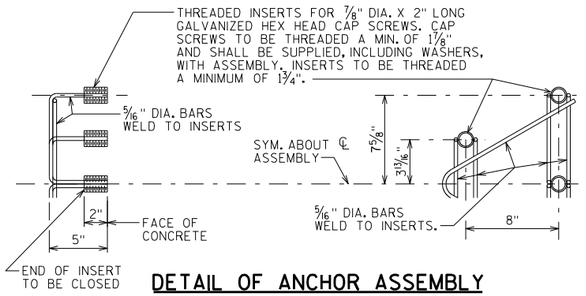


SECTION THRU PARAPET ON BRIDGE



OUTSIDE ELEVATION

(WING NOT SHOWN FOR CLARITY)



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.

◆ SLOPE FOR DRAINAGE

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

▽ R501 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-44-293

DRAWN BY JJS | PLANS CK'D. SEW

MODIFIED SINGLE SLOPE PARAPET 32SS

SHEET 13

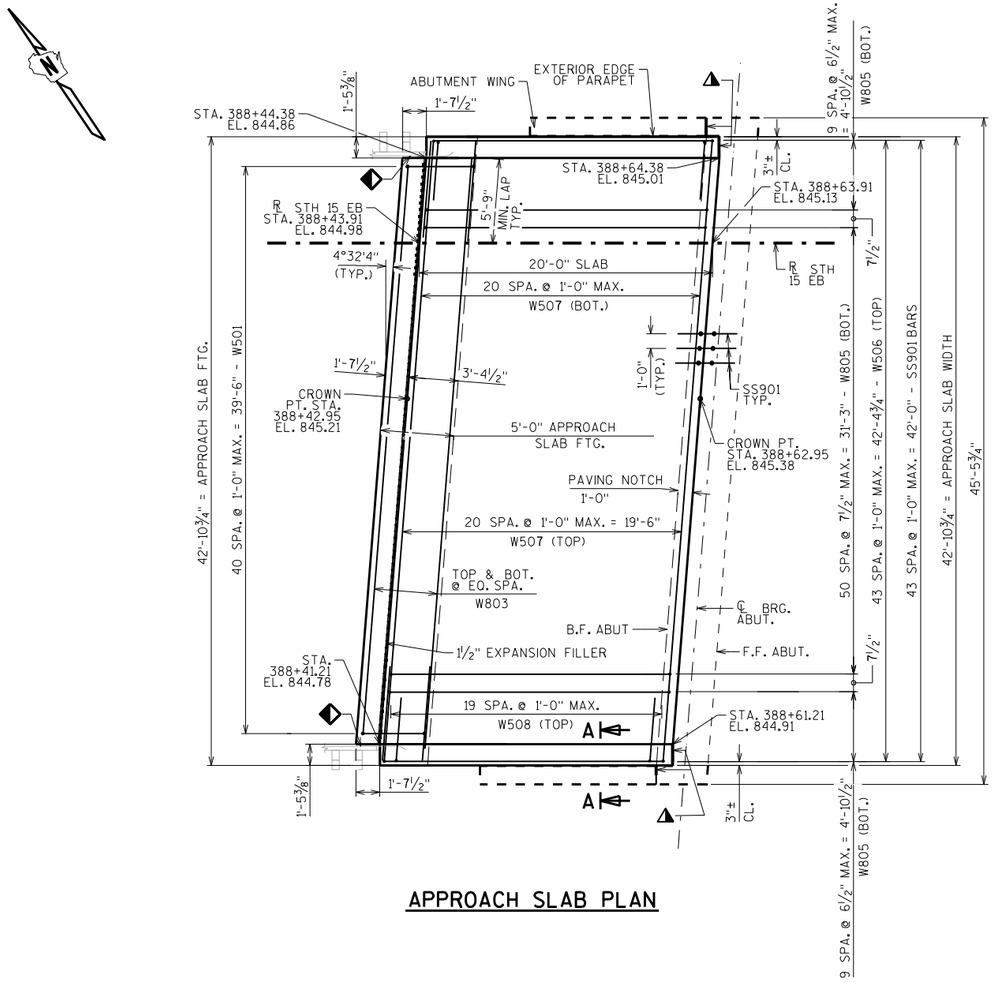
SCALE = 1.05

8

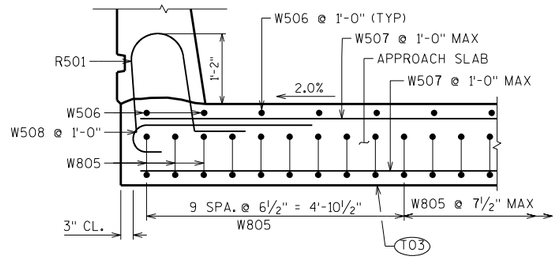
8

STATE PROJECT NUMBER

1146-75-71



APPROACH SLAB PLAN



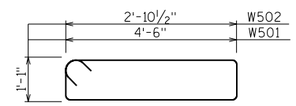
SECTION A-A

(NORTH END SIMILAR)

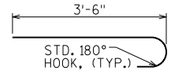
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

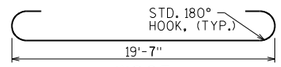
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
W501	X	41	11'-10"	X	FOOTING - STIRRUP
W502	X	4	8'-7"	X	FOOTING - STIRRUP ENDS
W803	X	12	39'-9"		FOOTING - TRANS. - TOP & BTM.
W804	X	16	7'-2"		FOOTING END - TRANS.- TOP & BTM.
W805	X	71	21'-5"	X	SLAB - LONGIT. - BTM.
W506	X	44	19'-6"		SLAB - LONGIT. - TOP
W507	X	42	42'-6"		SLAB - TRANS. - TOP & BOT.
W508	X	40	4'-1"	X	SLAB-TRANS.-TOP EDGE- BTWN. W507



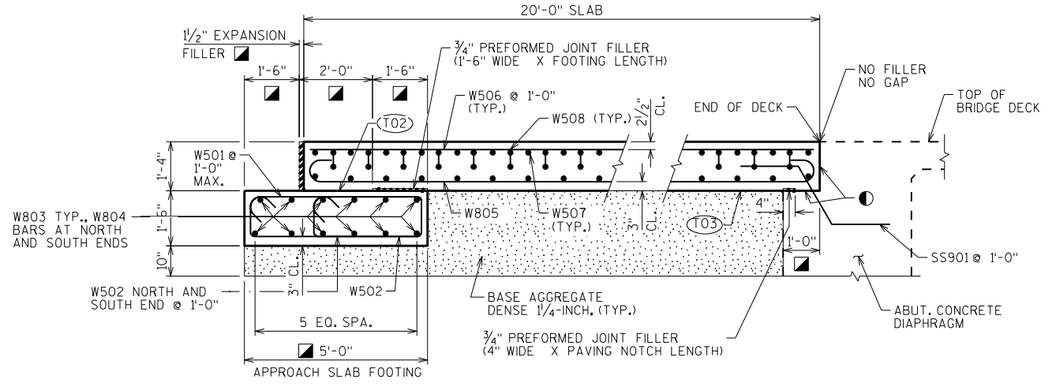
W501, W502



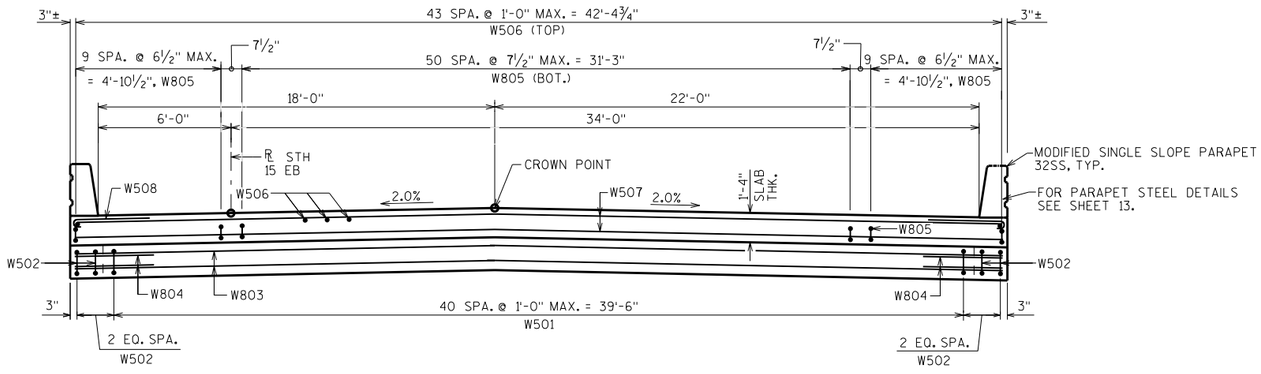
W508



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-44-293

DRAWN BY JJS | PLANS CK'D. SEW

WEST STRUCTURAL APPROACH SLAB

SHEET 14

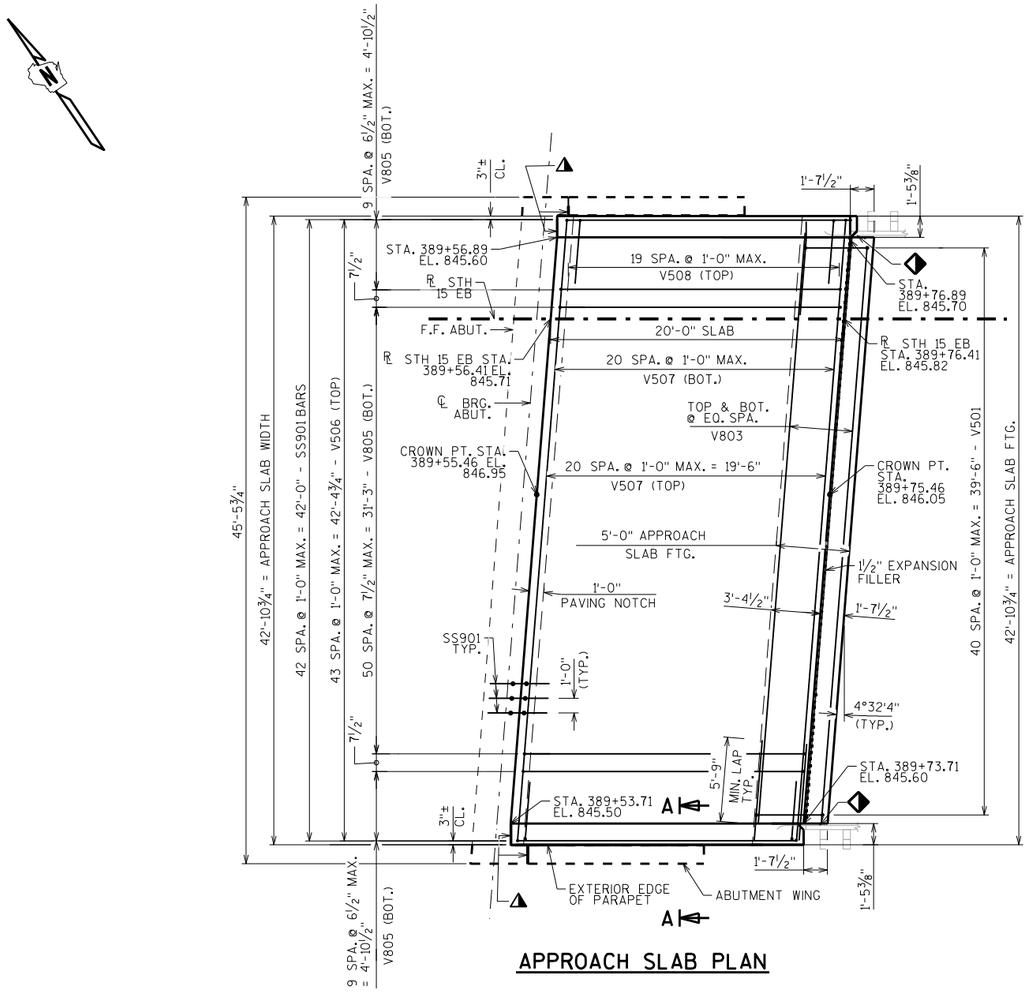
SCALE = 5.00

8

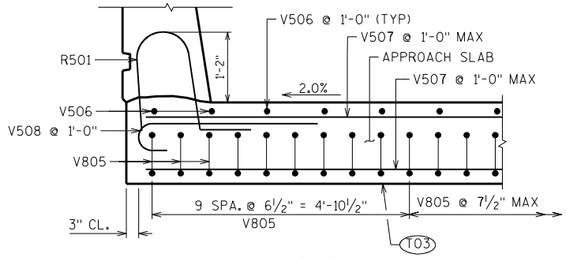
8

STATE PROJECT NUMBER

1146-75-71



APPROACH SLAB PLAN



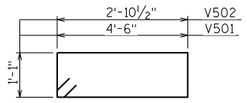
SECTION A-A

(NORTH END SIMILAR)

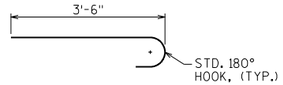
BILL OF BARS

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.

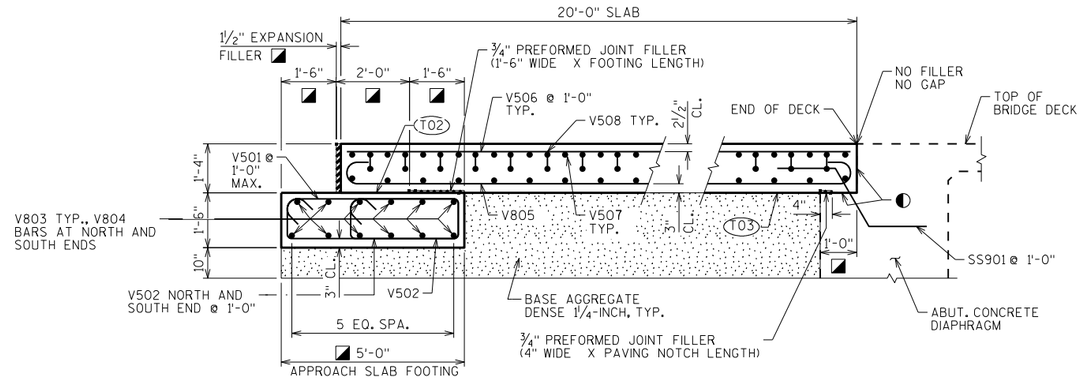


V501, V502

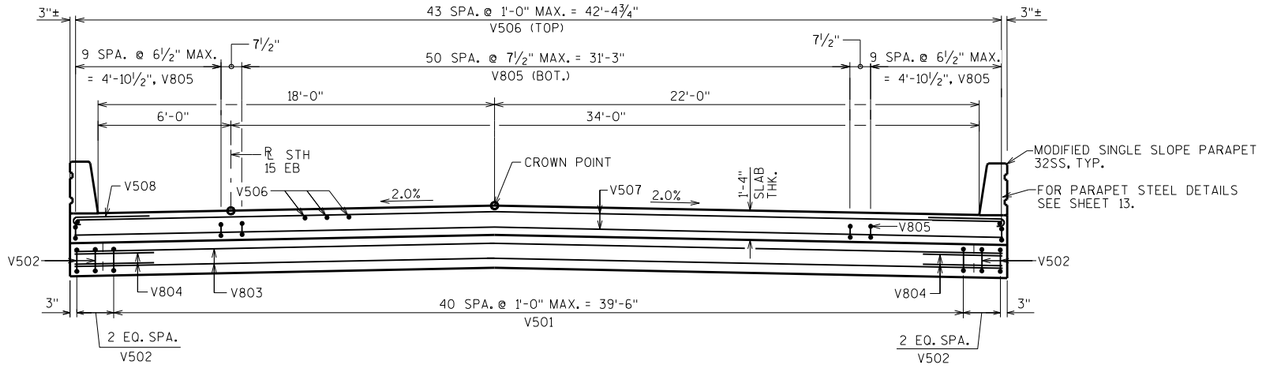


V508

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

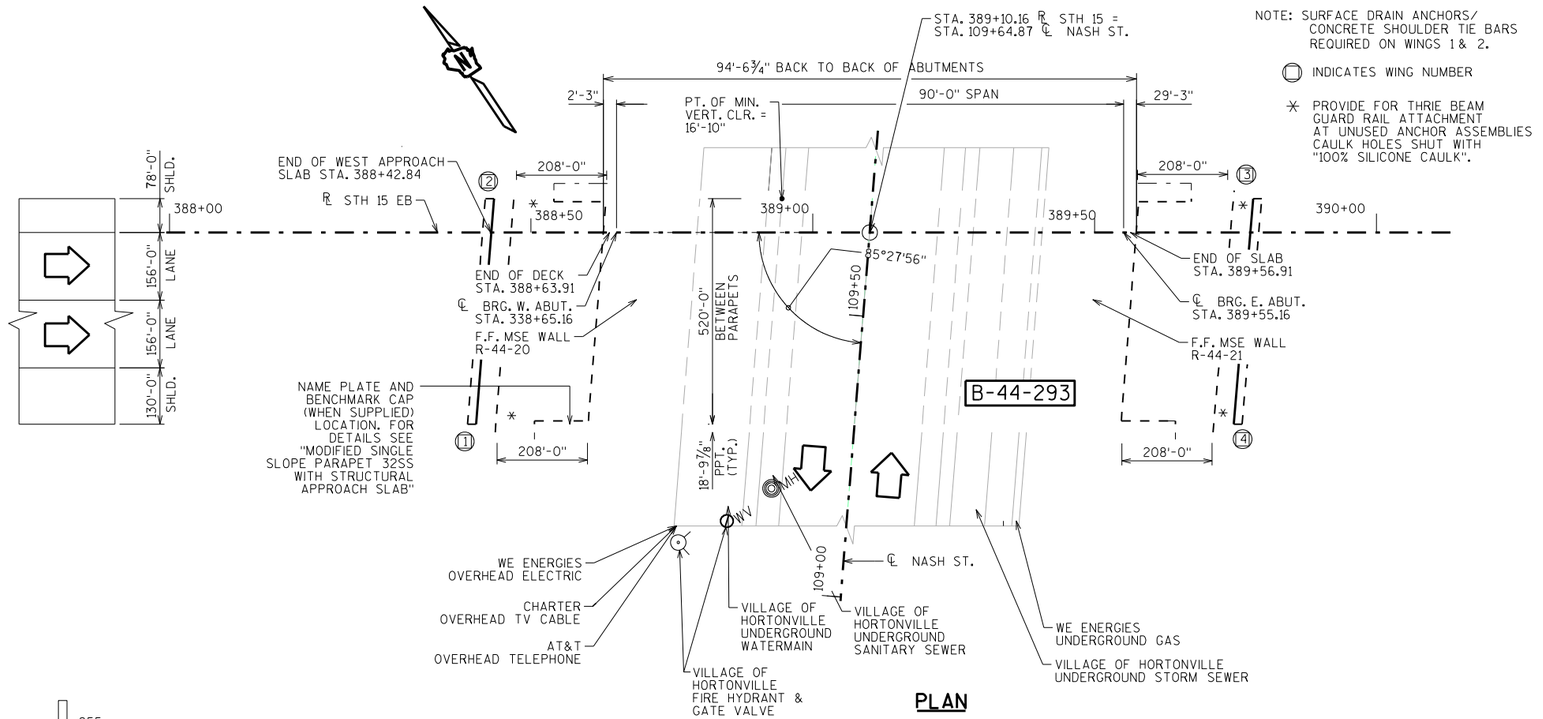
SCALE = 5.00

8

8

STATE PROJECT NUMBER

1146-75-71



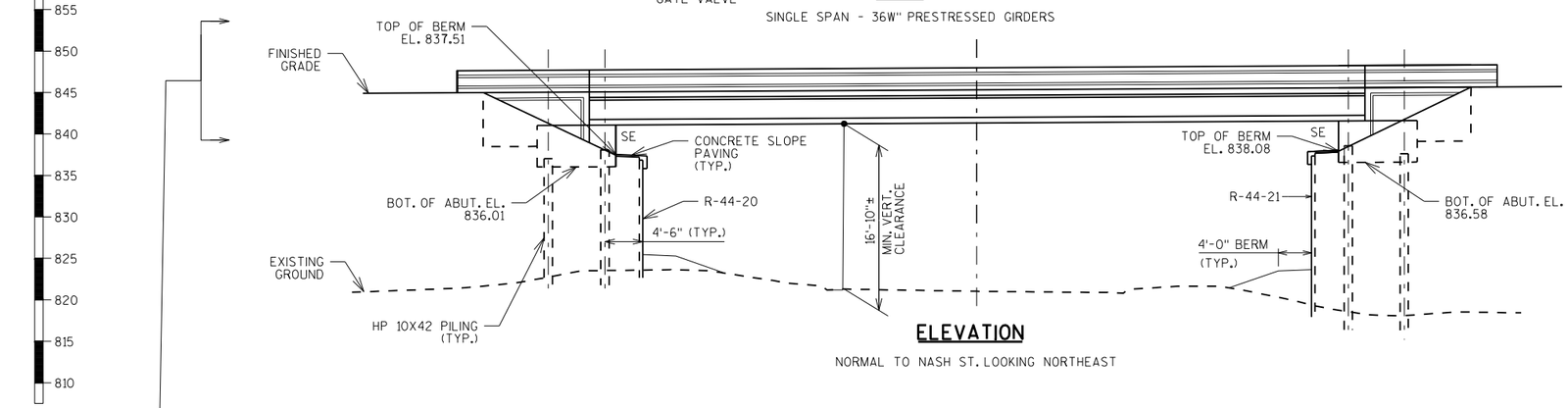
PLAN

SINGLE SPAN - 36W" PRESTRESSED GIRDERS

NOTE: SURFACE DRAIN ANCHORS/ CONCRETE SHOULDER TIE BARS REQUIRED ON WINGS 1 & 2.

(1) INDICATES WING NUMBER

✳ PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT AT UNUSED ANCHOR ASSEMBLIES CAULK HOLES SHUT WITH "100% SILICONE CAULK".



ELEVATION

NORMAL TO NASH ST. LOOKING NORTHEAST

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF=1.13
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 — 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.

HIGH STRENGTH STRUCTURAL STEEL A.S.T.M. A709 GRADE 50 — fy = 50,000 P.S.I.

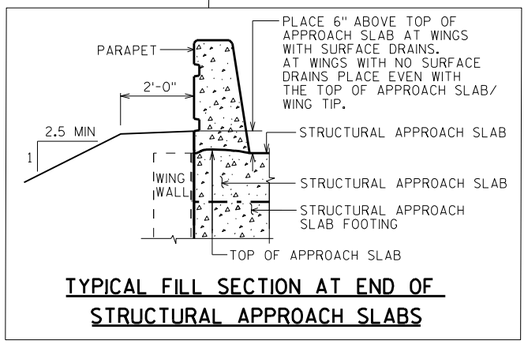
FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 10X42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 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.

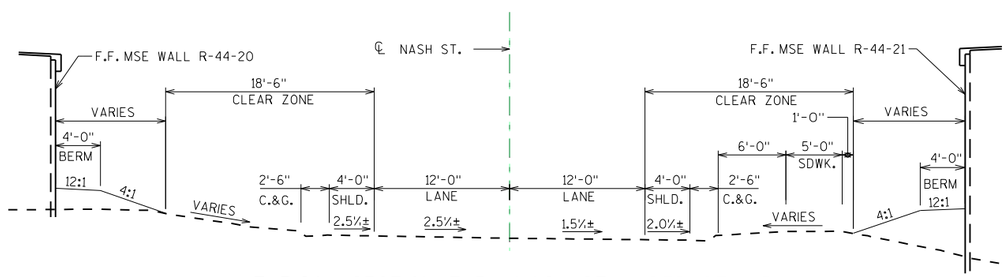
✳✳ THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

STH 15	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.



TYPICAL FILL SECTION AT END OF STRUCTURAL APPROACH SLABS



TYPICAL SECTION THRU NASH ST. UNDER STH 15

NORMAL TO NASH ST. LOOKING NORTHEAST

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 32SS WITH STRUCTURAL APPROACH SLAB
14. EAST STRUCTURAL APPROACH SLAB
15. WEST STRUCTURAL APPROACH SLAB

STRUCTURE DESIGN CONTACT:

JOHN SENDOR (608) 266-5163

AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-44-294

COUNTY	VILLAGE
OUTAGAMIE	HORTONVILLE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
JJS		JJS	SEW

GENERAL PLAN

SHEET 1 OF 15

I.D. 1146-75-00C DATE: DEC. 2016

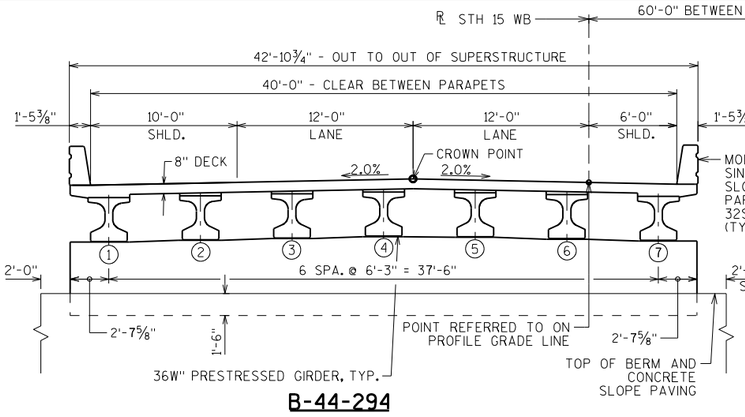
SCALE = 169.00

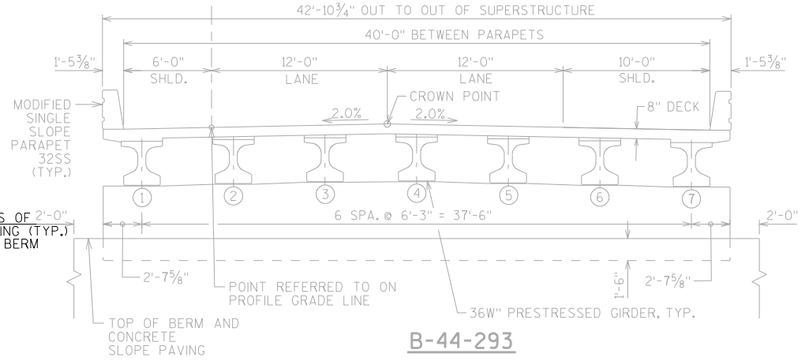
8

8

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 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.

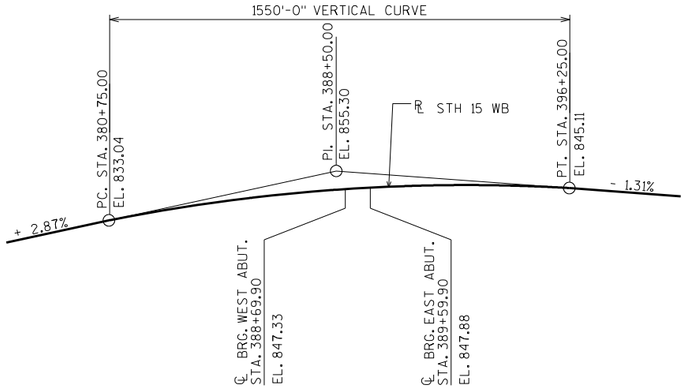
THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF B-44-294 WITH RETAINING WALLS R-44-20 AND R-44-21.

▪ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

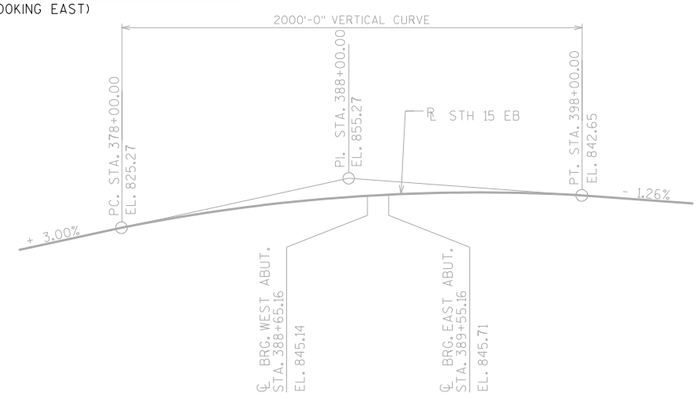
◯ INDICATES GIRDER NUMBER

CROSS SECTION THRU ROADWAY

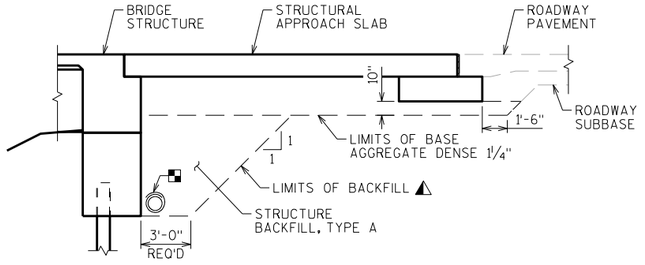
(LOOKING EAST)



PROFILE GRADE LINE STH 15 WB



PROFILE GRADE LINE STH 15 EB



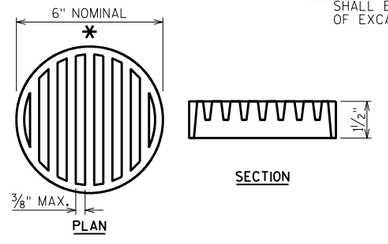
TYPICAL SECTION THRU ABUTMENT

(A1 ABUTMENT WITH STRUCTURAL APPROACH)

⚠ 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	———	———	107	108	———	215
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	———	133	———	———	133	266
502.0100	CONCRETE MASONRY BRIDGES	CY	171	59	50	50	59	389
502.3200	PROTECTIVE SURFACE TREATMENT	SY	433	90	———	———	90	613
502.3210	PIGMENTED SURFACE SEALER	SY	77	17	———	———	17	111
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF	637	———	———	———	———	637
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	———	———	2580	2590		5170
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	25645	10080	1510	1510	10080	48825
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	1470	———	———	———	———	1470
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
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	———	———	128	128	———	256
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	———	2	———	———	2	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

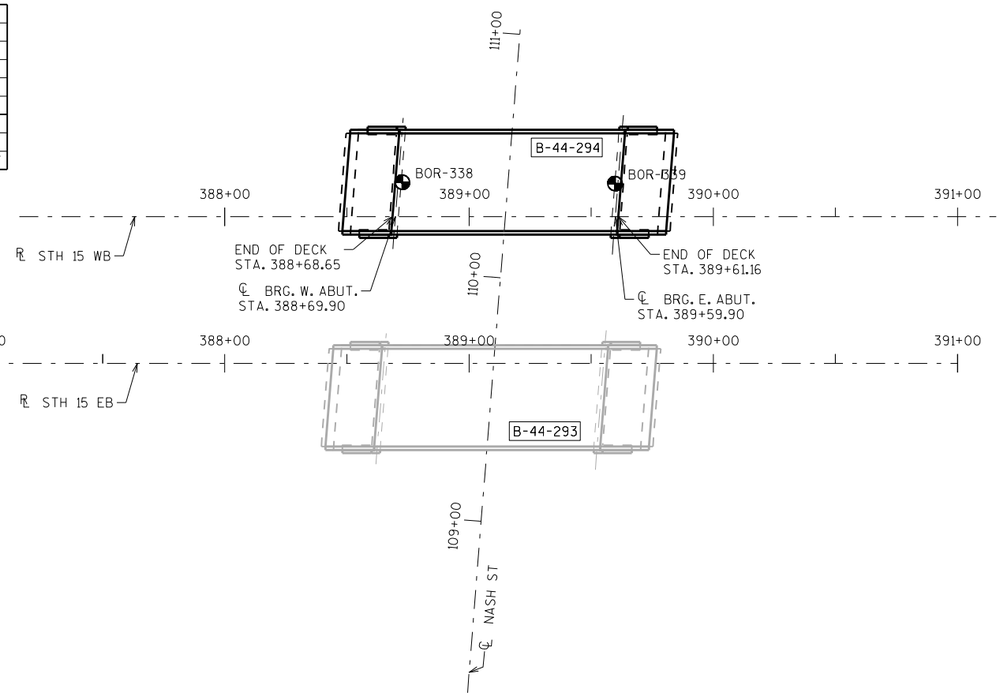
SHEET 2

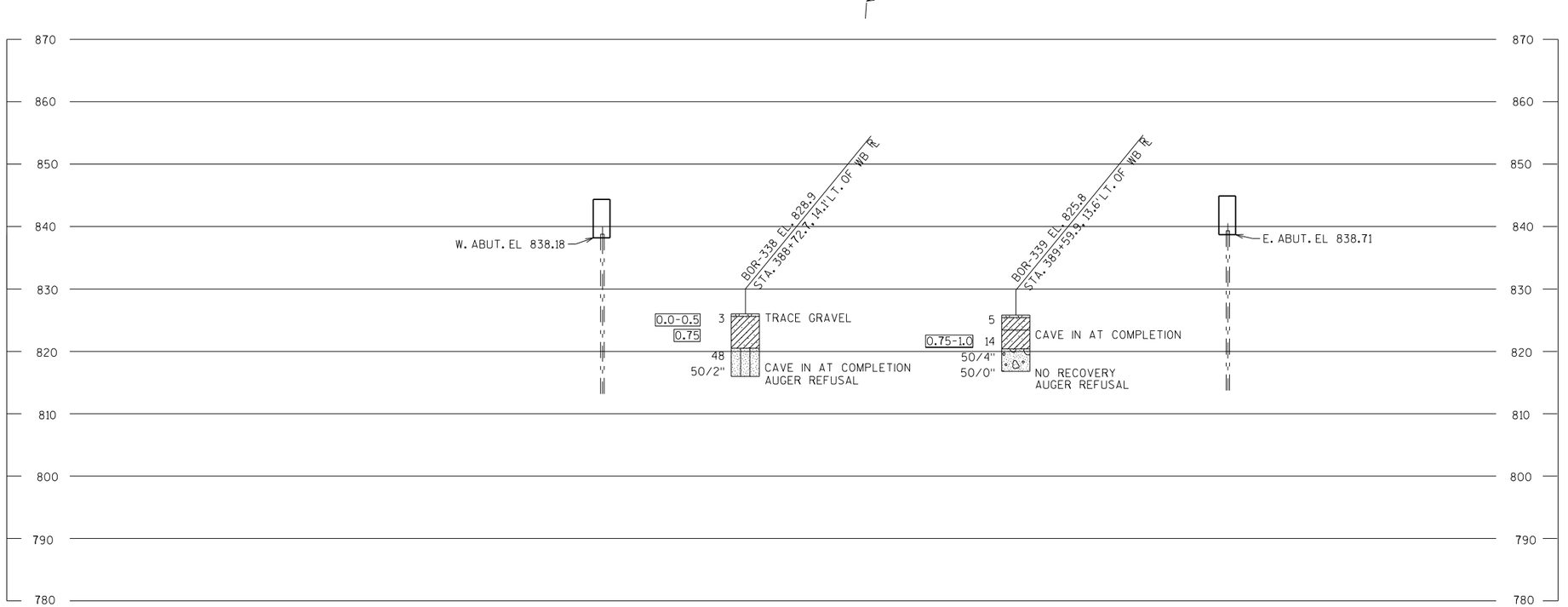
SCALE = 25.00

8

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			





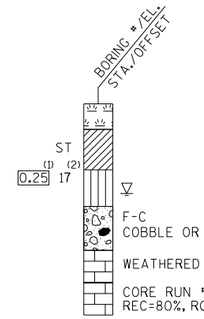
STATE PROJECT NUMBER

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

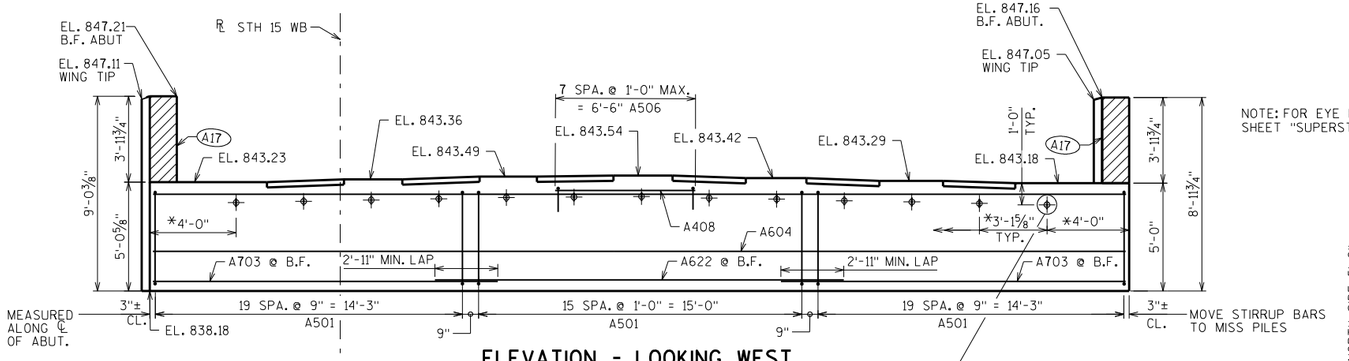
SCALE = 30.00

8

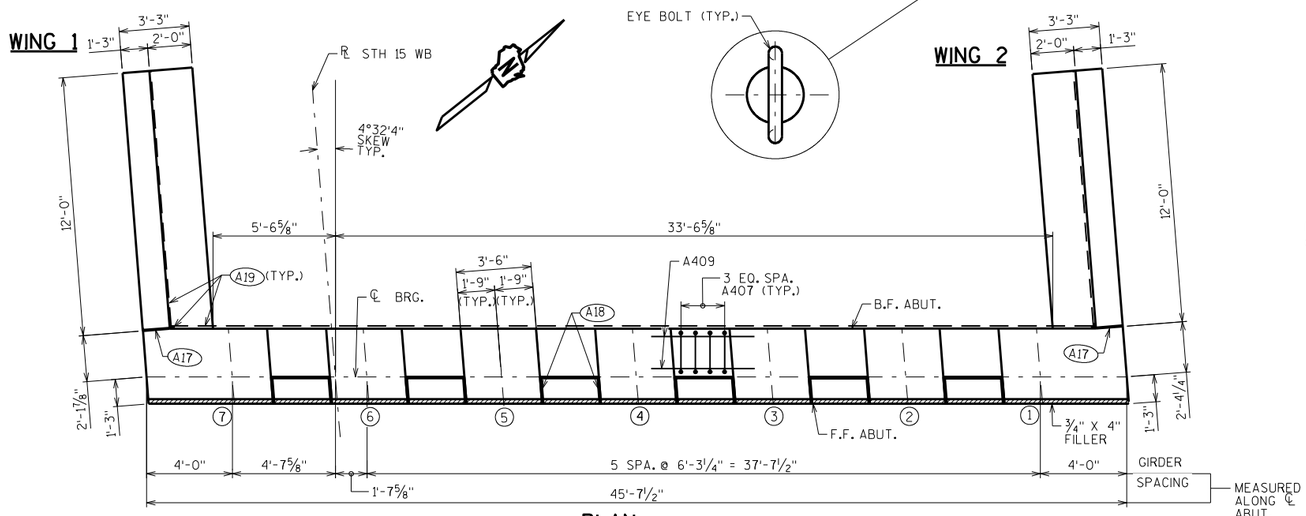
8

STATE PROJECT NUMBER

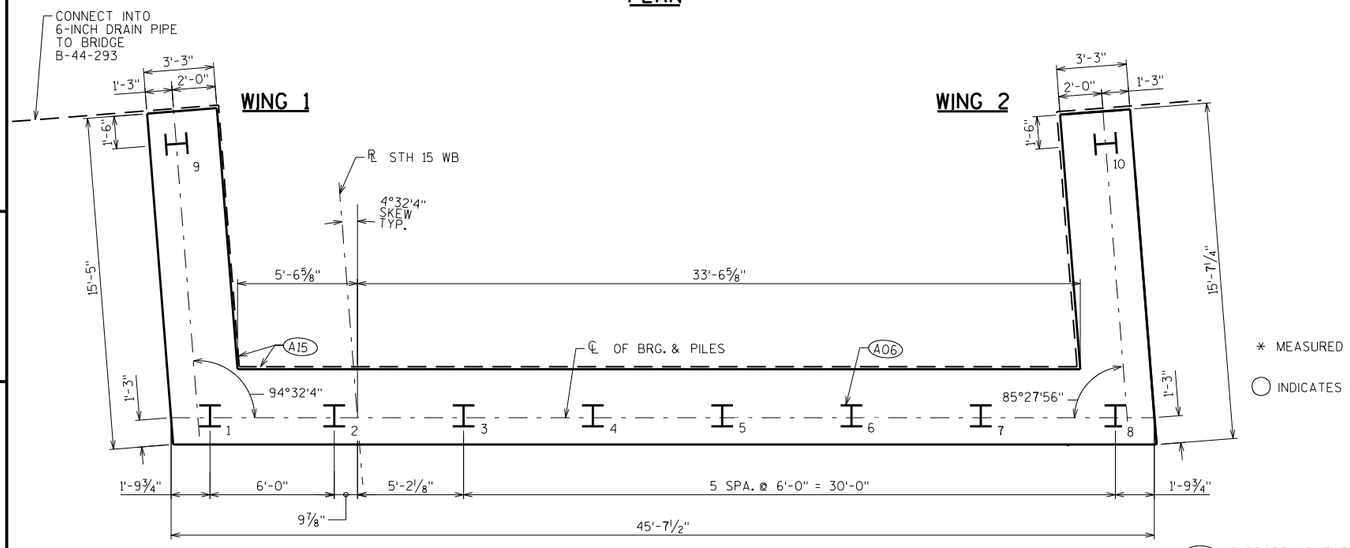
1146-75-71



ELEVATION - LOOKING WEST

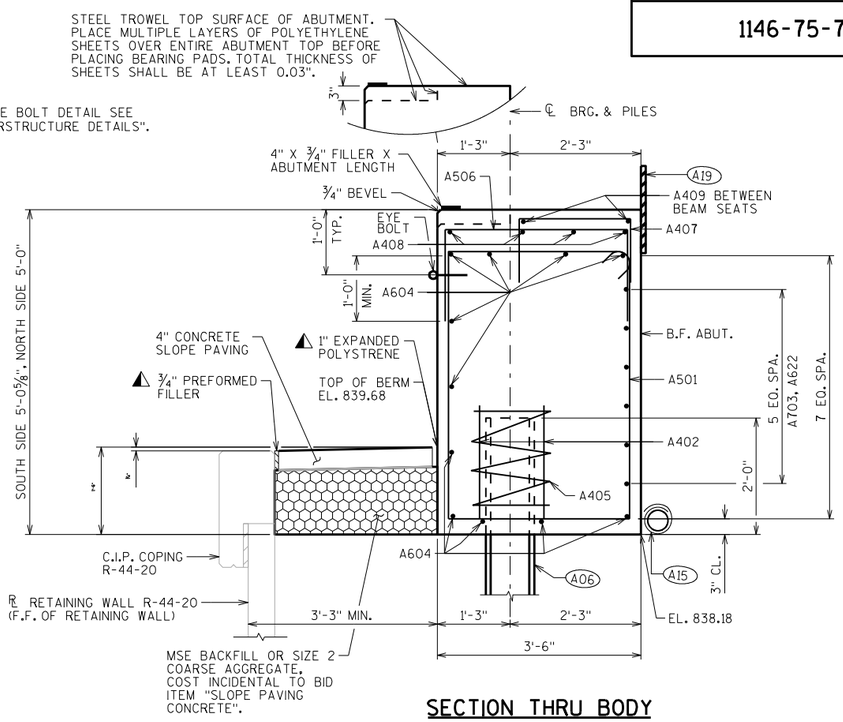


PLAN



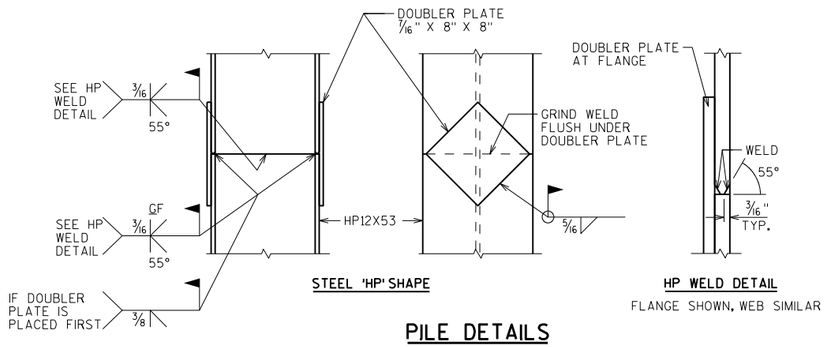
PILE PLAN

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.

(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.

(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

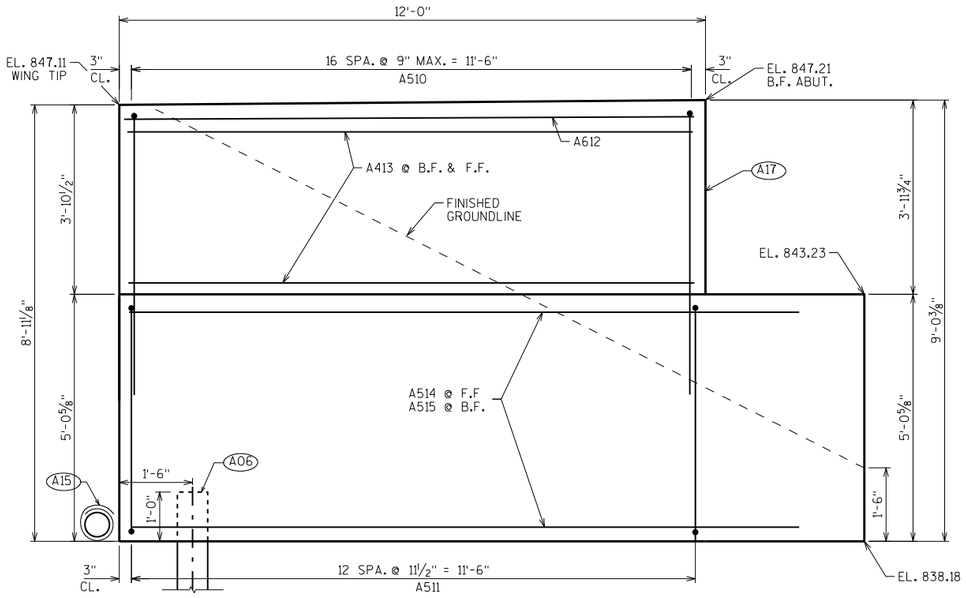
SCALE = 3.40

8

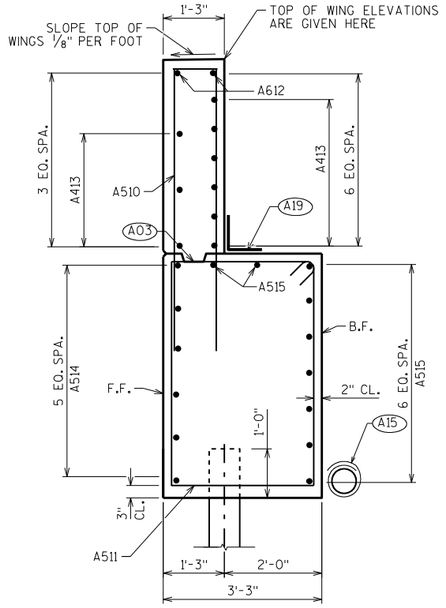
8

STATE PROJECT NUMBER

1146-75-71



WING 1 ELEVATION

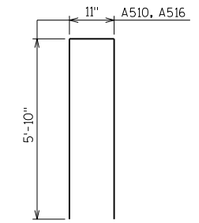


WING 1 SECTION

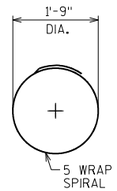
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

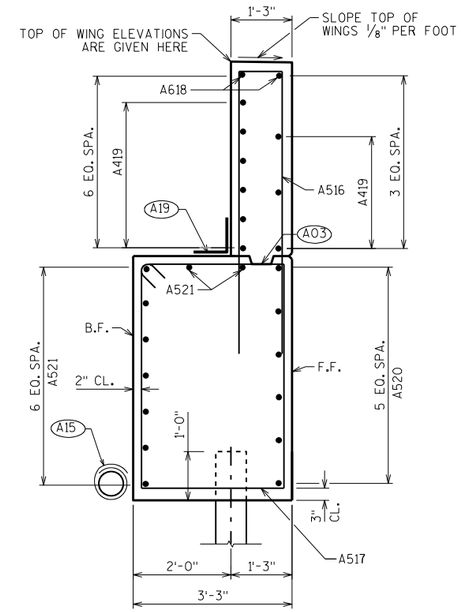
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A501		56	15'-8"	X		BODY- STIRRUPS
A402		16	2'-3"			BODY-VERT- AT BODY PILES
A703		12	16'-0"			BODY-HORIZ. B.F.
A604		11	45'-3"			BODY-HORIZ.
A405		8	28'-0"	X		BODY-VERT. AT BODY PILES
A506		8	5'-7"	X		BODY-VERT. UND. BM. SEAT 4
A407		24	4'-7"	X		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.



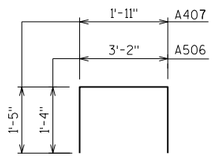
A510, A516



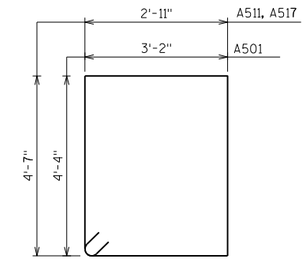
A405



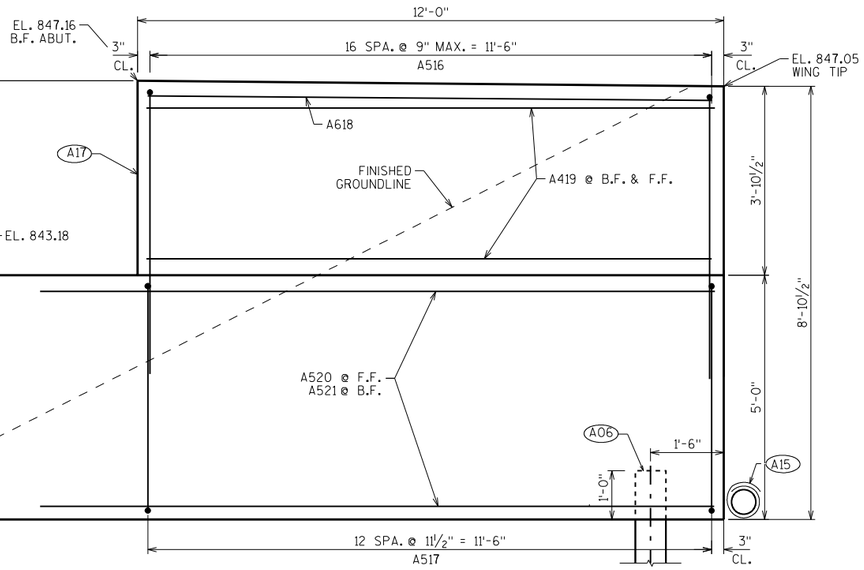
WING 2 SECTION



A407, A506



A501, A511, A517



WING 2 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 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.

(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-44-294

DRAWN BY JJS | PLANS CK'D. SEW

WEST ABUTMENT DETAILS

SHEET 5

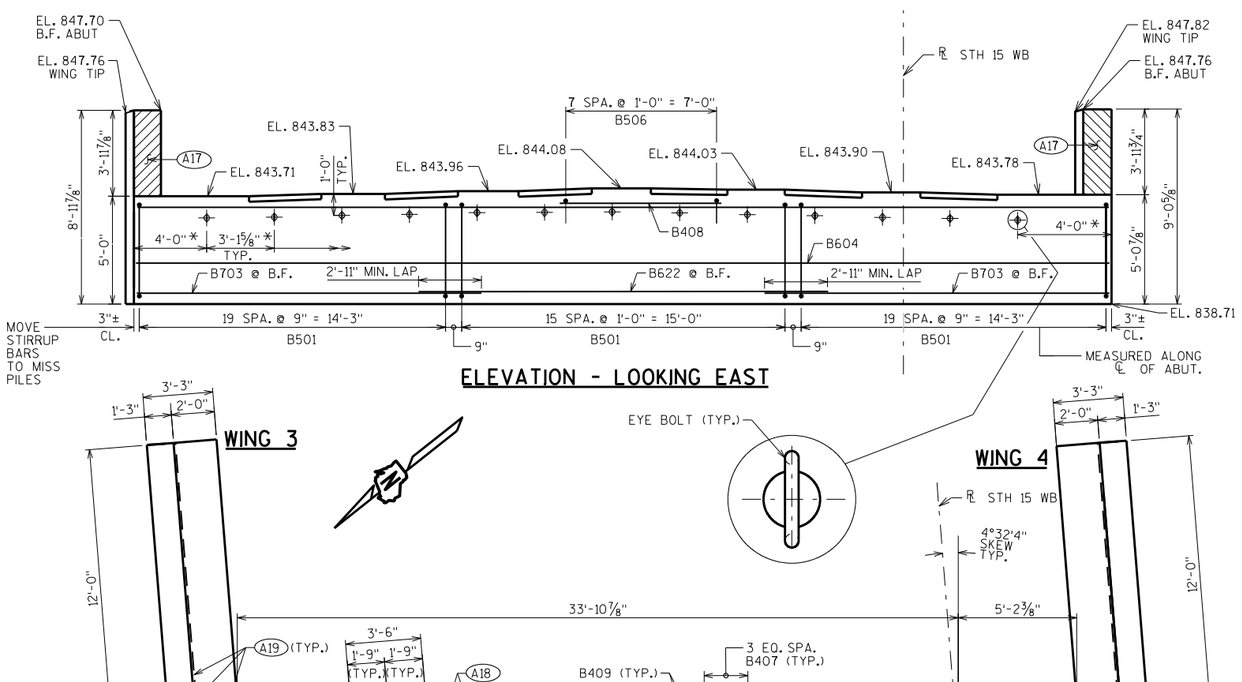
SCALE = 1.50

8

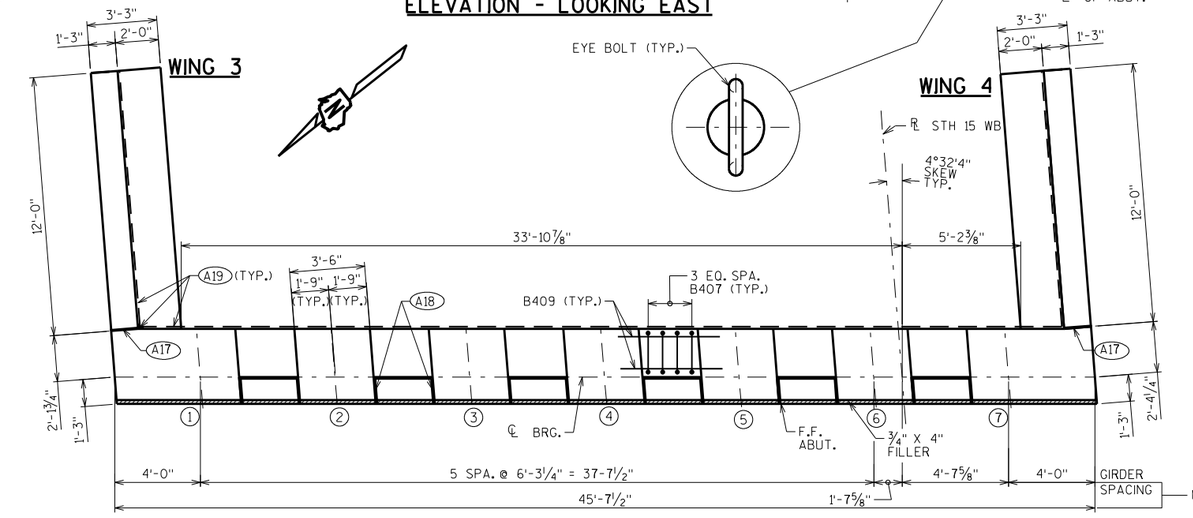
8

STATE PROJECT NUMBER

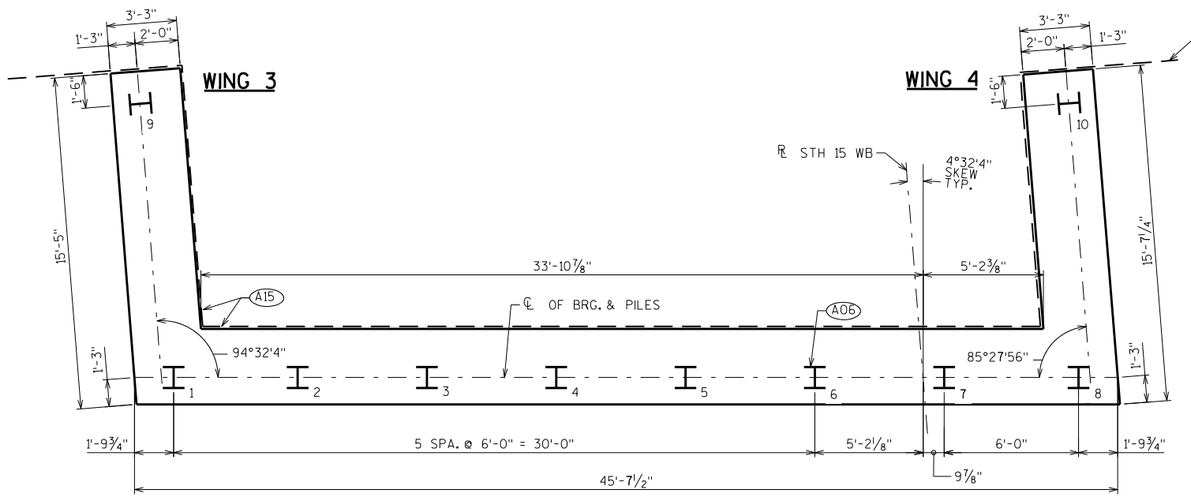
1146-75-71



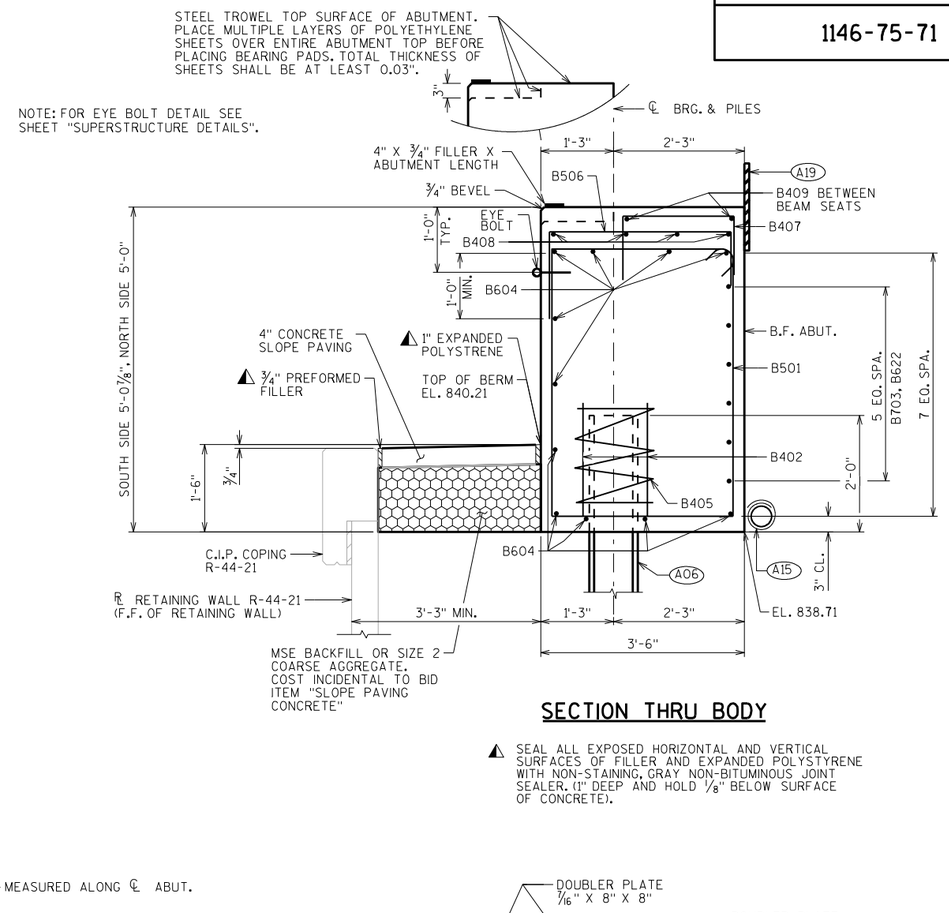
ELEVATION - LOOKING EAST



PLAN

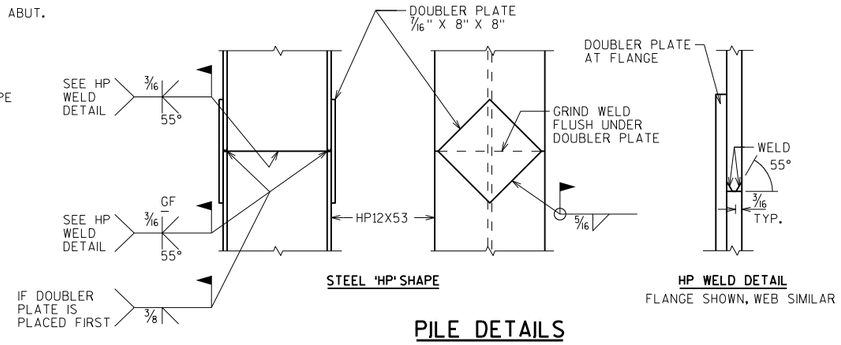


PILE PLAN



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.

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.

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

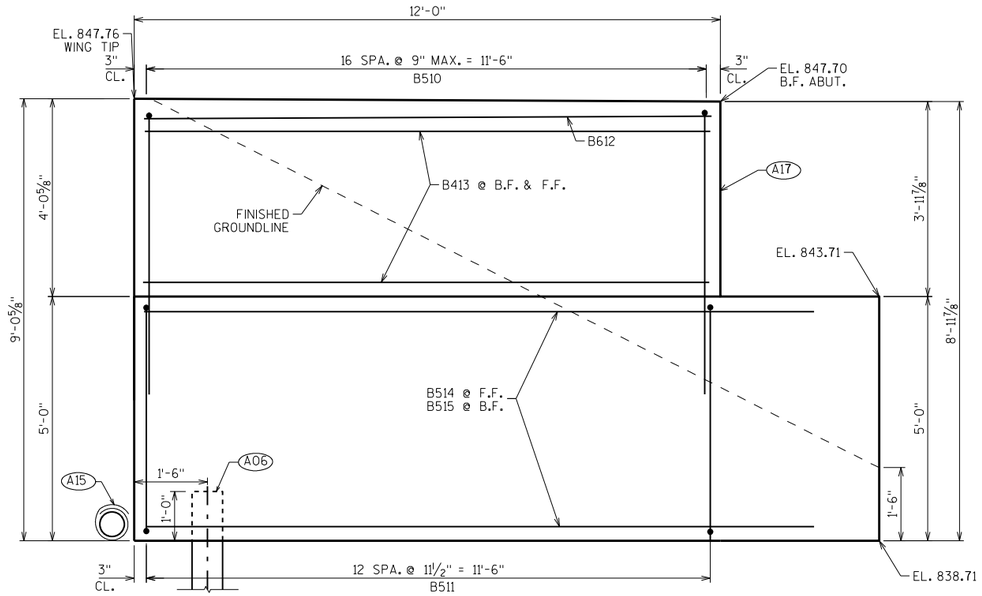
EAST ABUTMENT

SHEET 6

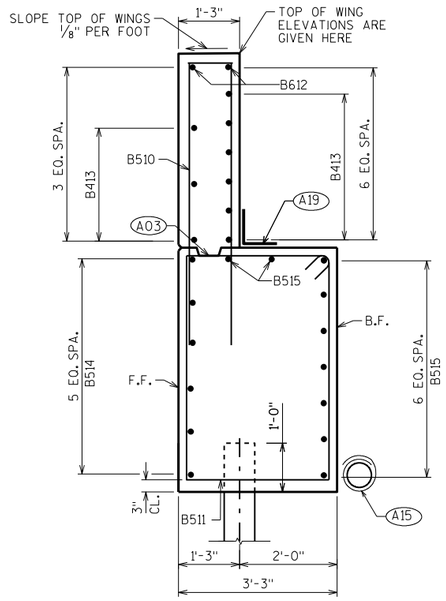
SCALE = 3.40

8

8



WING 3 ELEVATION

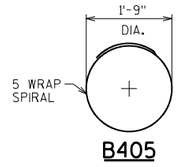


WING 3 SECTION

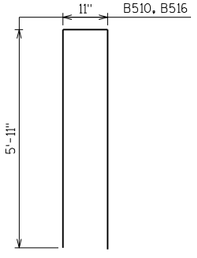
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

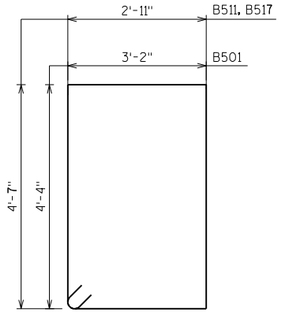
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		56	15'-8"	X		BODY- STIRRUPS
B402		16	2'-3"			BODY-VERT- AT BODY PILES
B703		12	16'-0"			BODY-HORIZ. B.F.
B604		11	45'-3"			BODY-HORIZ.
B405		8	28'-0"	X		BODY-VERT. AT BODY PILES
B506		8	6'-3"	X		BODY-VERT. UND. BM. SEAT 4
B407		24	4'-7"	X		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.



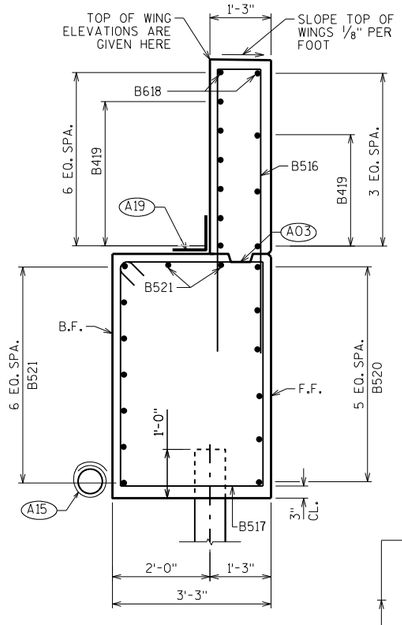
B405



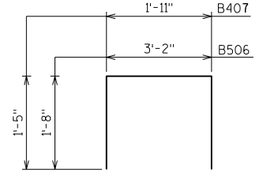
B510, B516



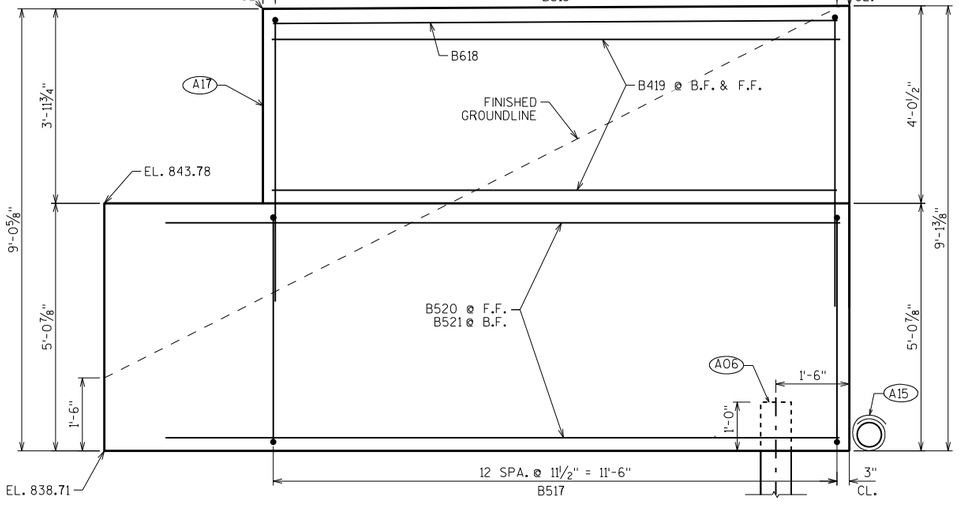
B501, B511, B517



WING 4 SECTION



B407, B506



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 25'-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) 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.

STATE PROJECT NUMBER

1146-75-71

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 ABUTMENT DETAILS

SHEET 7

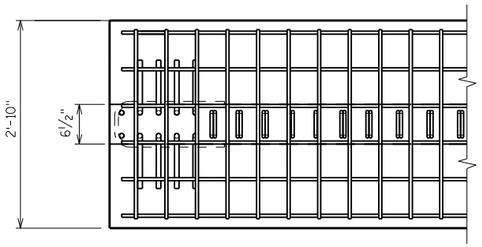
SCALE = 1.50

8

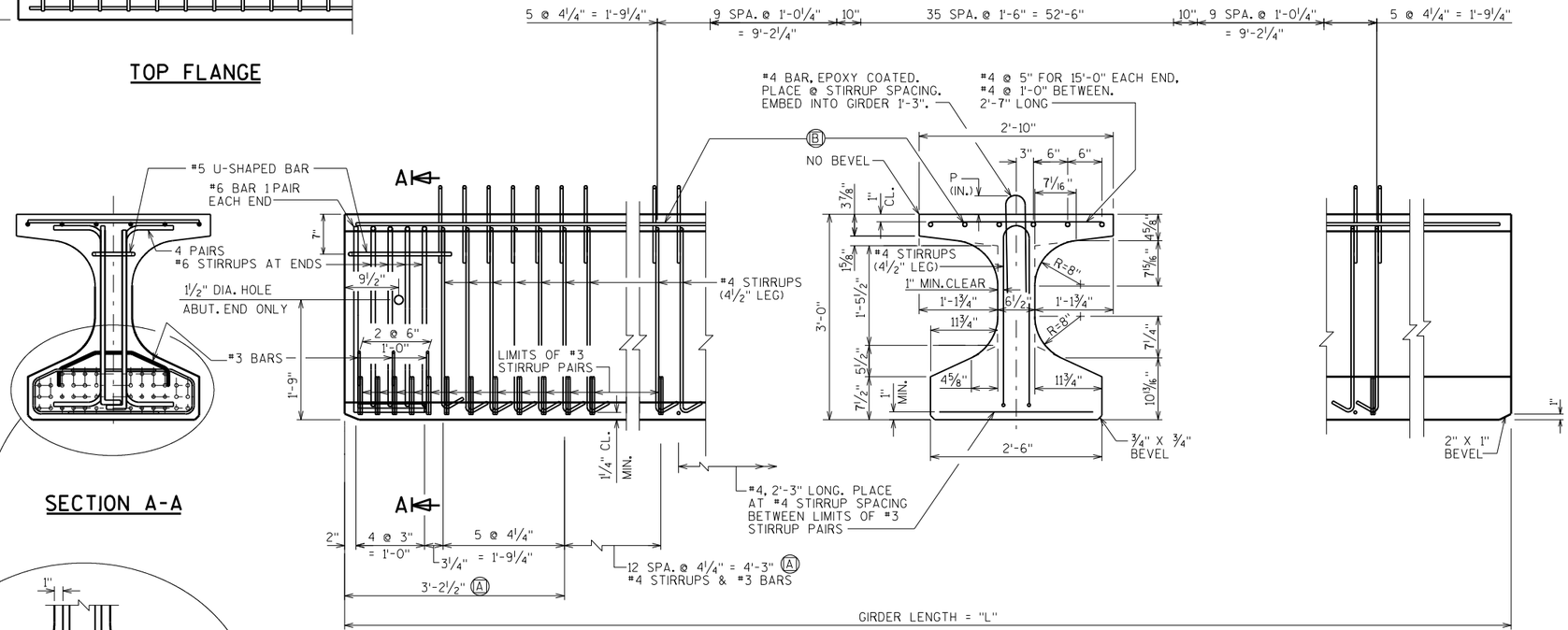
8

STATE PROJECT NUMBER

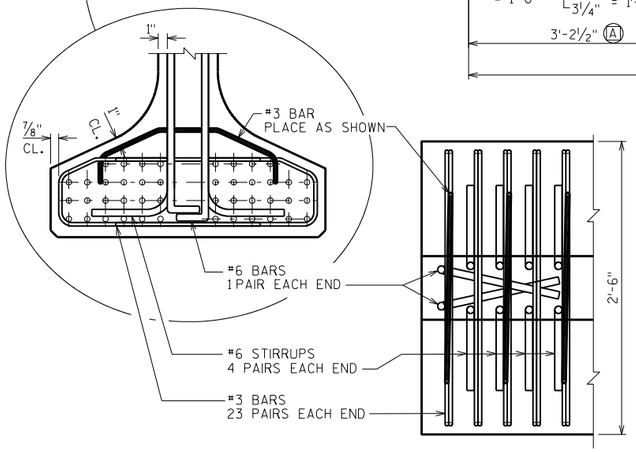
1146-75-71



TOP FLANGE



SECTION A-A



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.

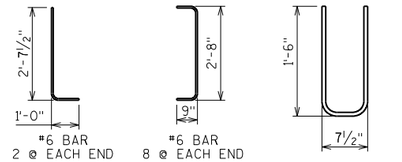
ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

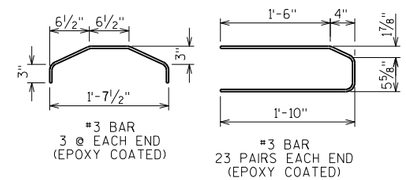
SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

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.





SIDE VIEW & TYPICAL SECTION IN SPAN

Ⓐ DETAIL TYP. AT EACH END

Ⓑ 6 #4 BARS, FULL LENGTH, MIN. LAP = 1'-11"

✳ 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	1-7	91	0.6	1.1	1.5	1.8	1.8	1.8	1.5	1.1	0.6	8,000	8	7	8	0.6	30	6,800	32	11	14	4		

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-294

DRAWN BY JJS | PLANS CK'D. SEW

36W" PRESTRESSED GIRDER DETAILS 1

SHEET 8

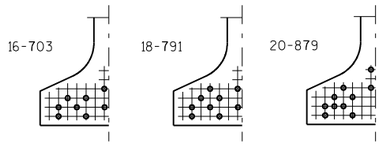
SCALE = 1.00

8

8

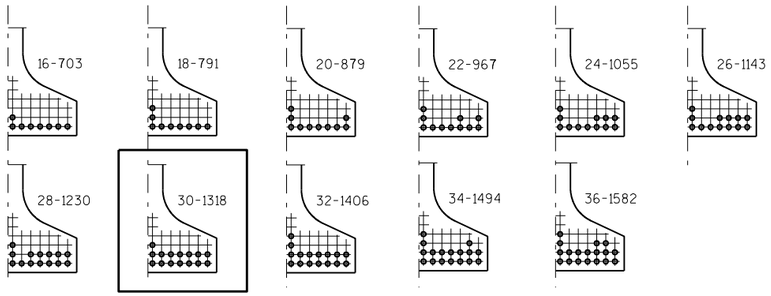
STATE PROJECT NUMBER

1146-75-71



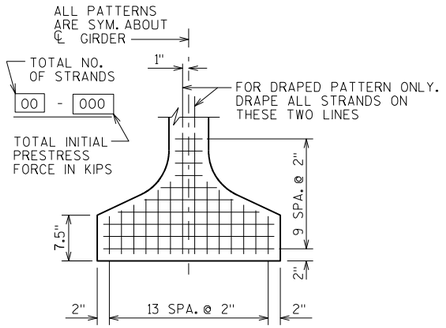
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6" DIA. STRANDS

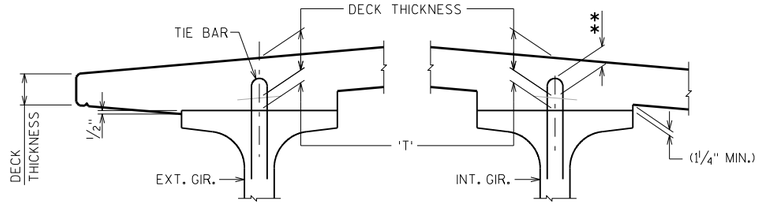


ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6" DIA. STRANDS



TYP. STRAND PATTERN



DECK HAUNCH DETAIL

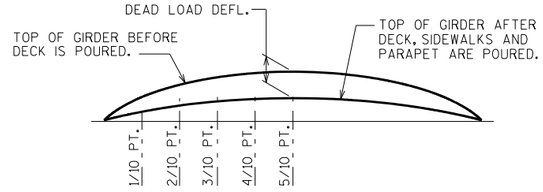
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

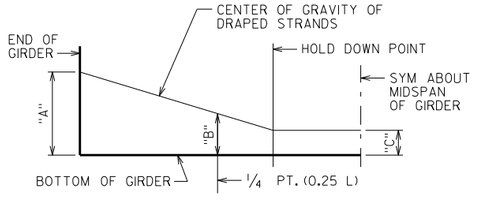
TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

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.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-294

DRAWN BY JJS | PLANS CK'D. SEW

36W" PRESTRESSED GIRDER DETAILS 2

SHEET 9

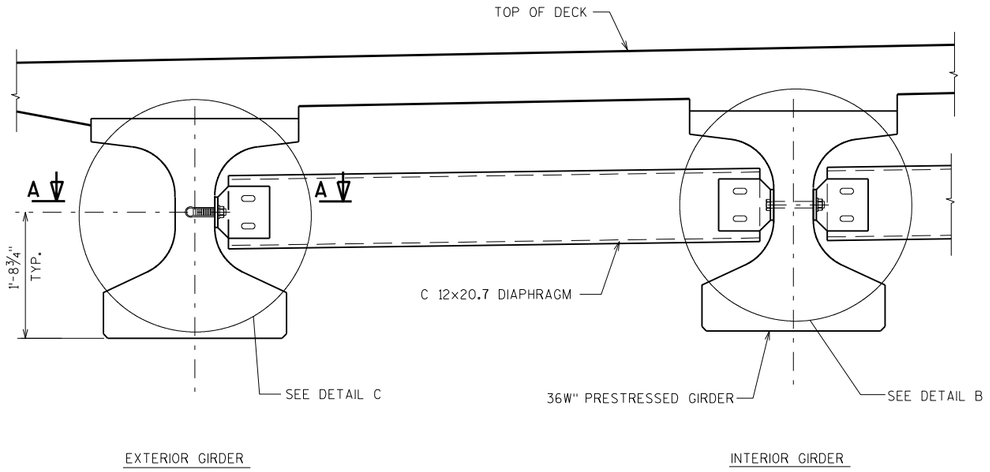
SCALE = 1.00

8

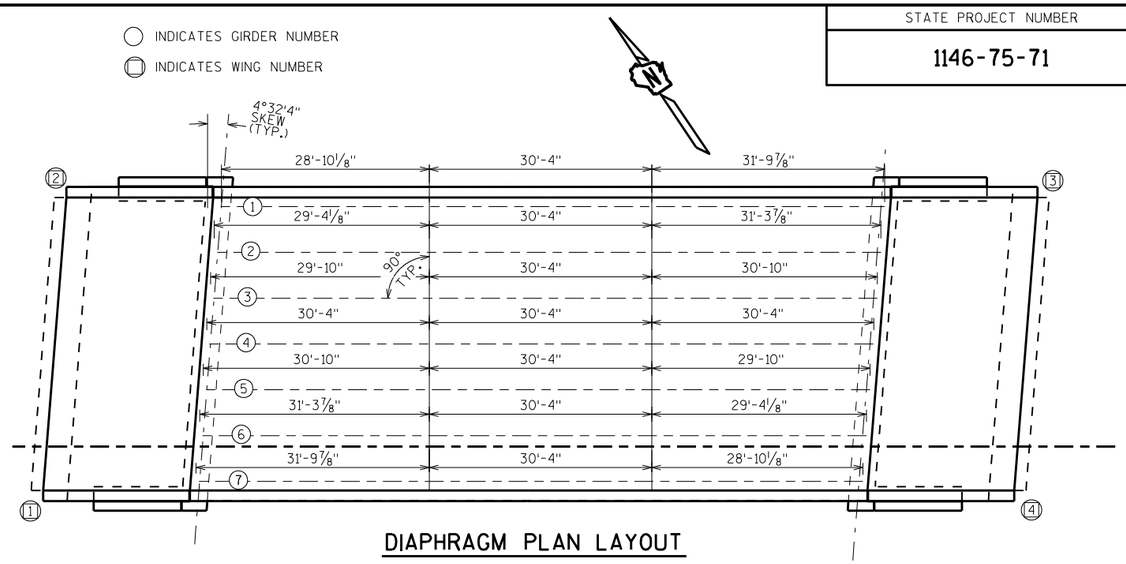
8

STATE PROJECT NUMBER

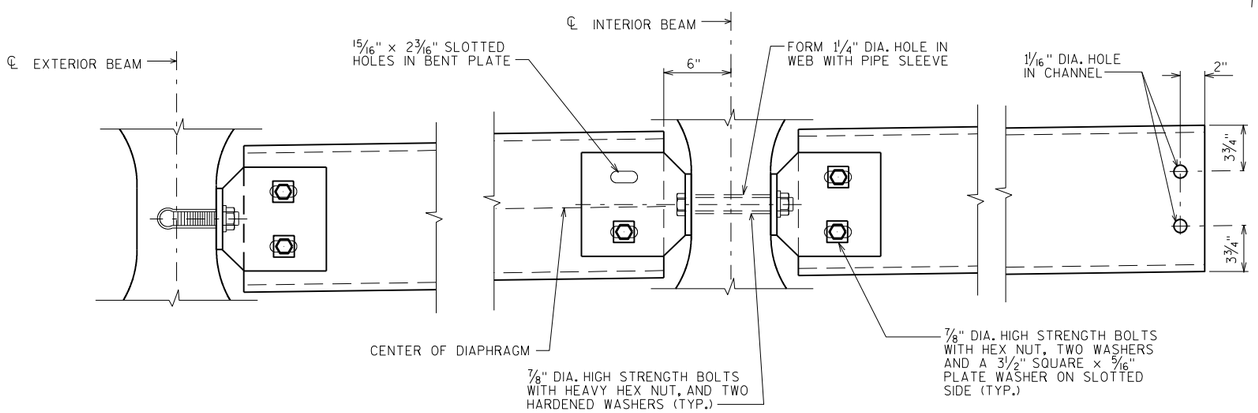
1146-75-71



PART TRANSVERSE SECTION AT DIAPHRAGM



DIAPHRAGM PLAN LAYOUT



DETAIL C

DETAIL B

NOTES

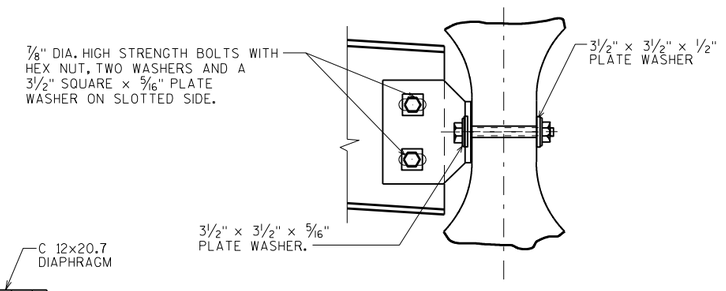
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-44-294", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

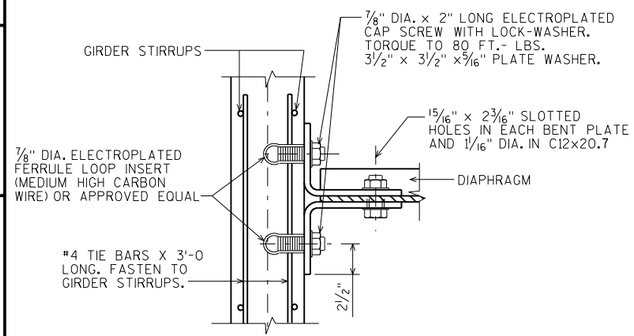
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

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.

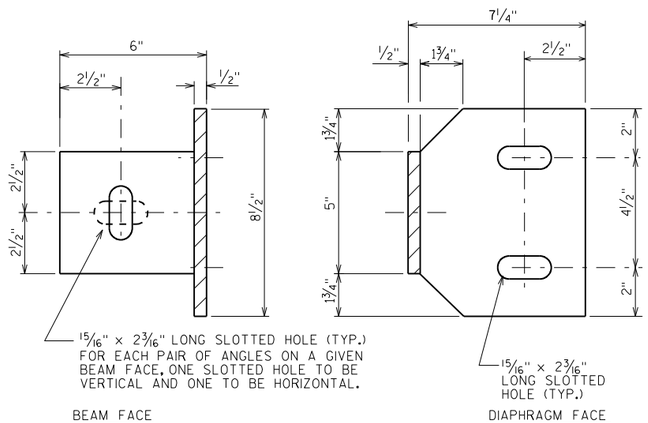


SECTION AT INTERIOR GIRDERS THRU DIAPHRAGM FOR SKEW ANGLES > 10°



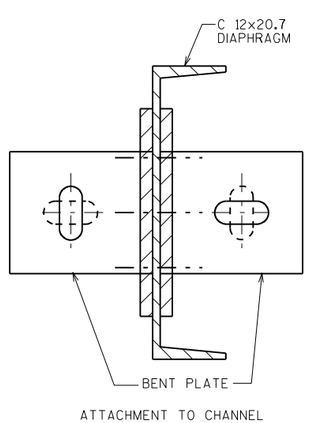
SECTION A-A

(FOR EXTERIOR ATTACHMENT)



BEAM FACE

DIAPHRAGM FACE



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

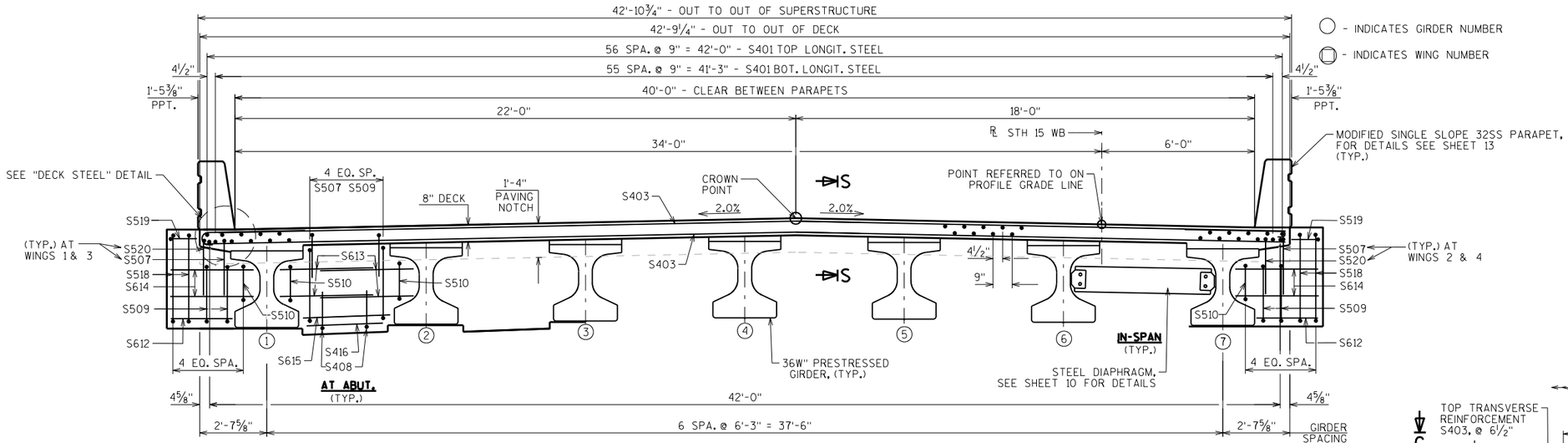
SHEET 10

SCALE = 1.00

8

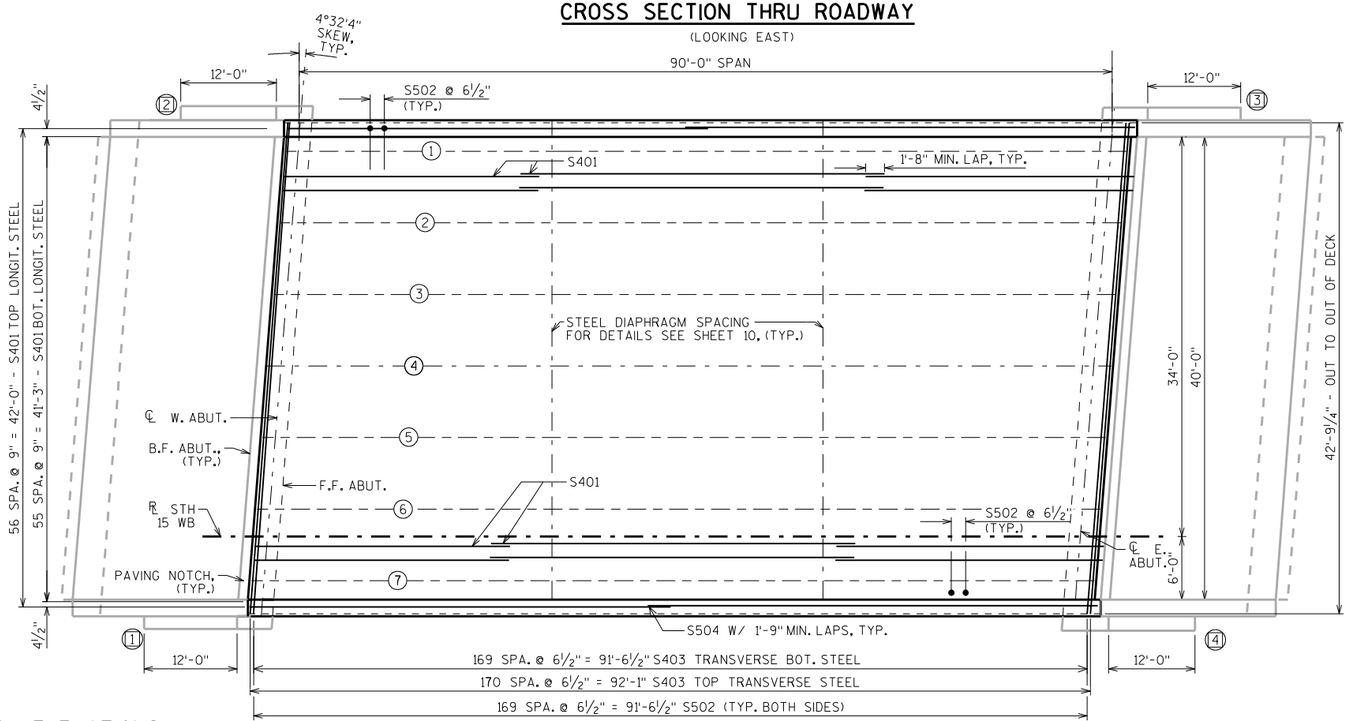
8

STATE PROJECT NUMBER
1146-75-71

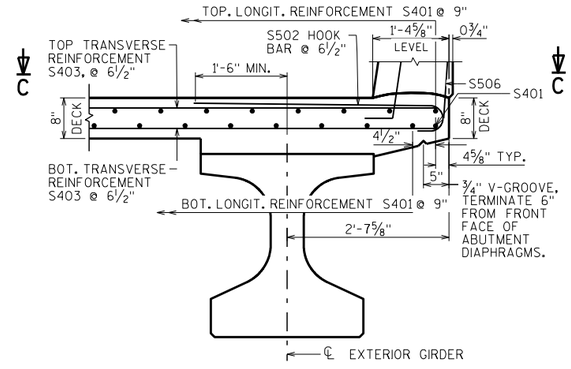


CROSS SECTION THRU ROADWAY

(LOOKING EAST)

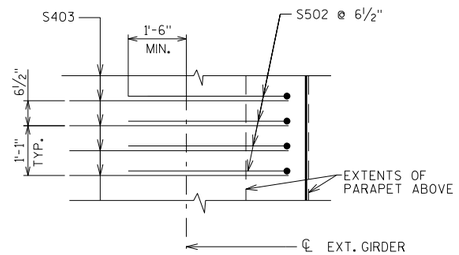


PLAN



DECK STEEL DETAIL

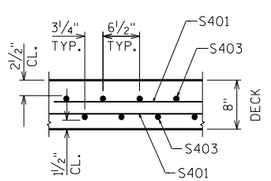
(TYP. AT BOTH EDGES)



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

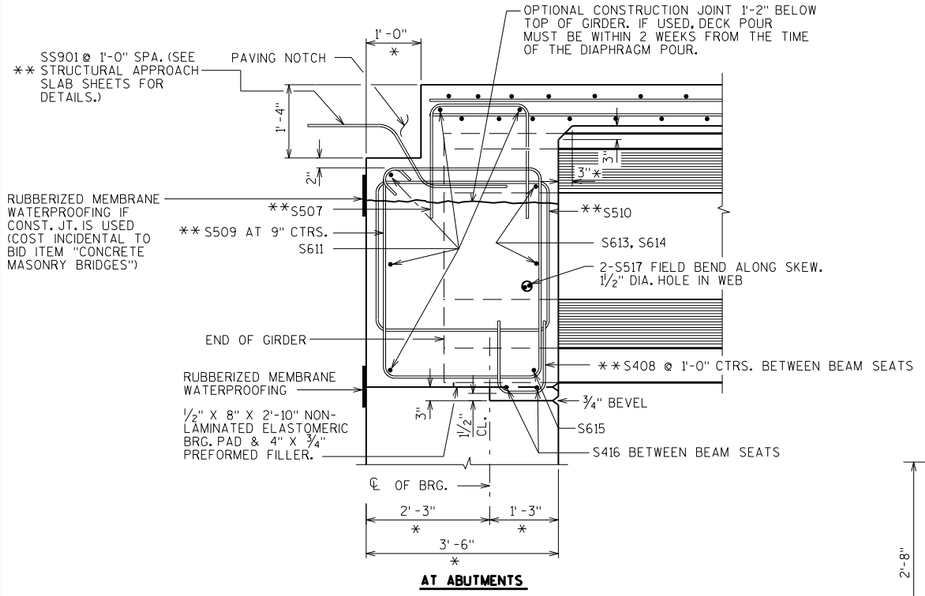
SCALE = 2.40

8

8

STATE PROJECT NUMBER

1146-75-71

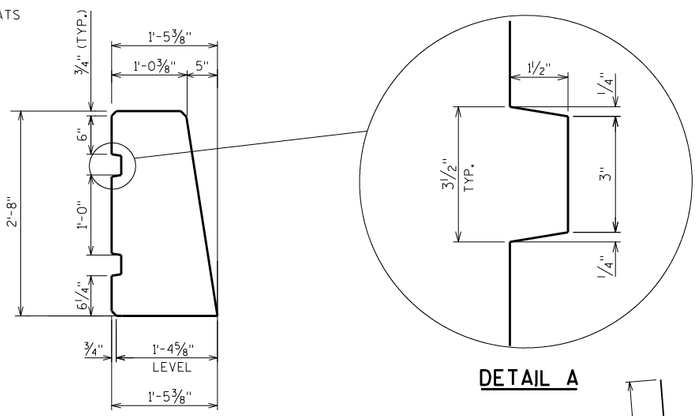


AT ABUTMENTS

PART LONGIT. SECTION

* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

** BARS PLACED PARALLEL TO GIRDERS SPACING PERPENDICULAR TO ℄ GIRDERS

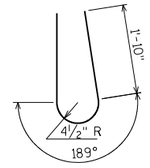


MODIFIED 32SS PARAPET

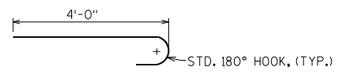
DETAIL A

S614

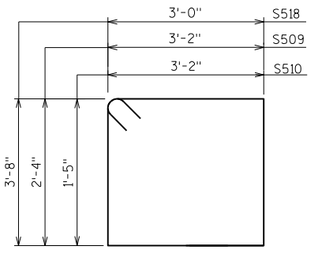
S506



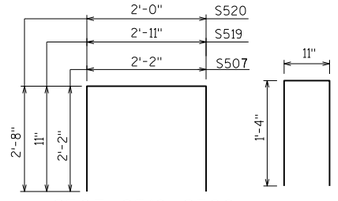
S505



S502



S509, S510, S518



S507, S519, S520

S408

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

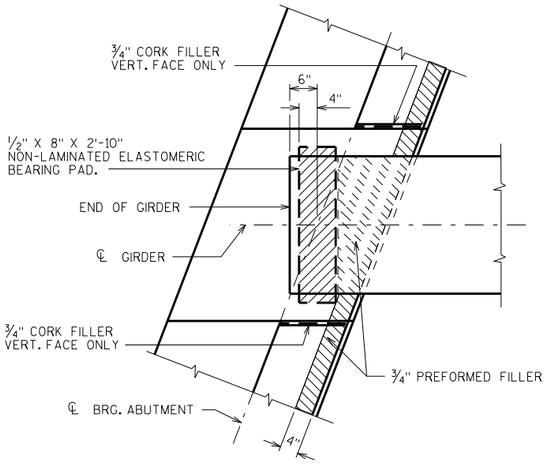
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S401	X	345	31'-10"			LONGITUNDINAL TOP & BOTTOM
S502	X	340	4'-7"	X		TRANSVERSE EDGE OF DECK TOP
S403	X	341	42'-5"			TRANSVERSE TOP AND BOTTOM
S504	X	24	47'-0"			PARAPET 32SS -HORIZ.
S505	X	278	5'-0"	X		PARAPET 32SS - VERT.
S506	X	278	4'-5"	X		PARAPET 32SS -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

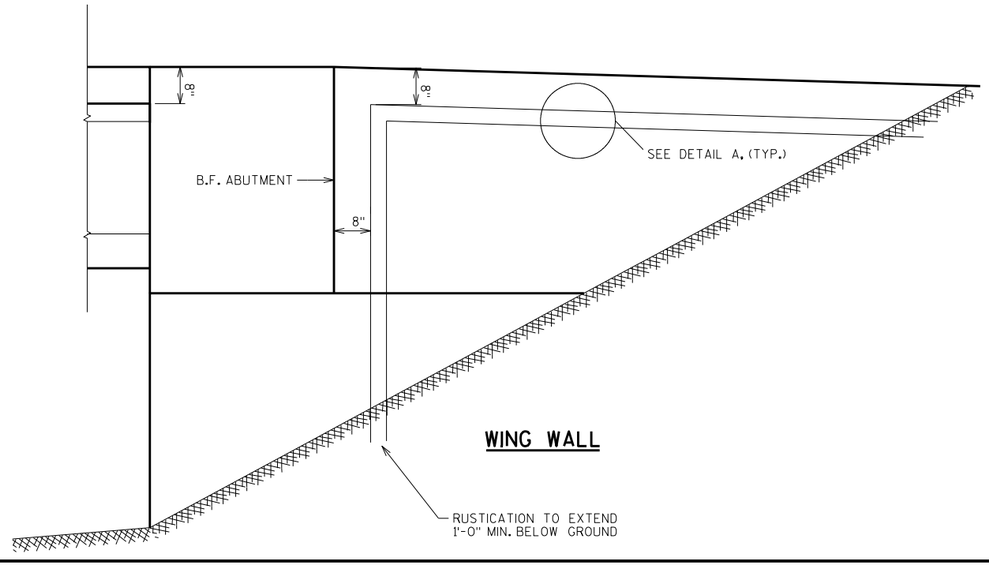
STAINLESS STEEL REINFORCEMENT

EYE BOLT DETAIL

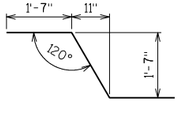
COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".



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

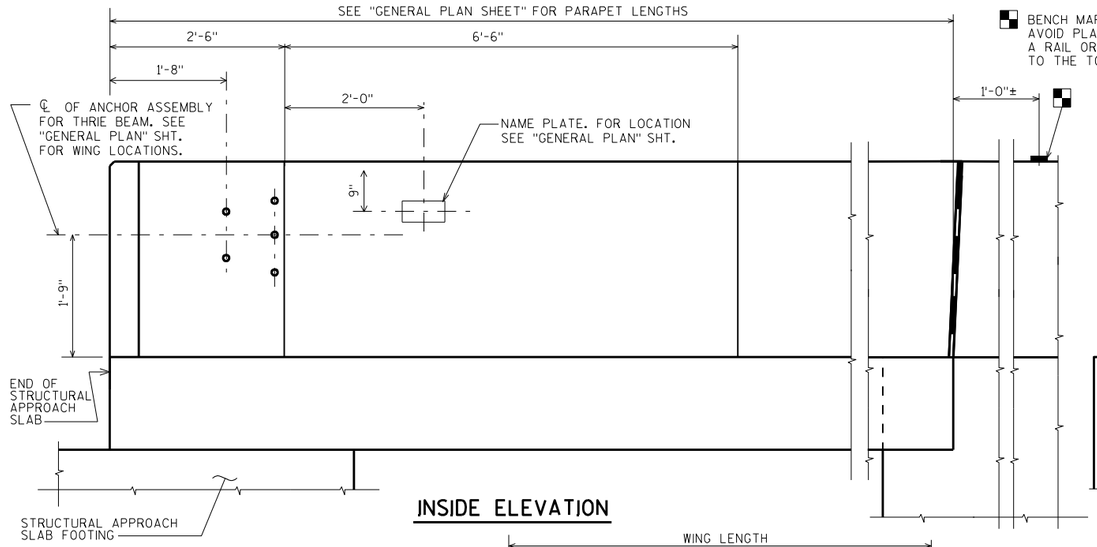
SCALE = 1.33

8

8

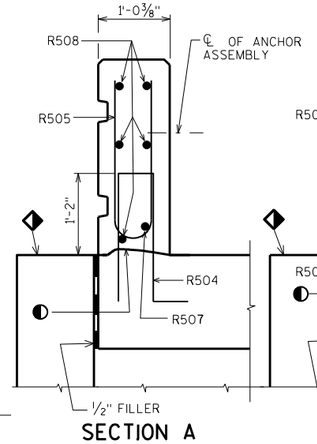
STATE PROJECT NUMBER

1146-75-71

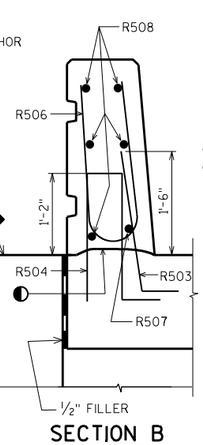


INSIDE ELEVATION

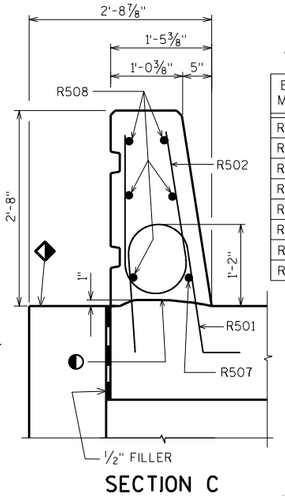
BENCH MARK CAP (WHEN SUPPLIED). AVOID PLACING A BENCH MARK CAP BELOW A RAIL OR FENCE SYSTEM THAT IS ATTACHED TO THE TOP OF THE PARAPET.



SECTION A



SECTION B

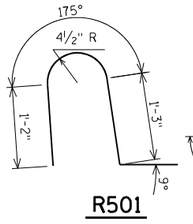


SECTION C

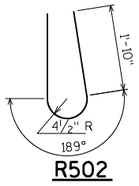
BILL OF BARS

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	5'-0"	X		PARAPET VERT.
R503	X	24	24	2'-9"	X		PARAPET VERT.
R504	X	34	34	4'-4"	X		PARAPET VERT.
R505	X	22	22	4'-9"	X		PARAPET VERT.
R506	X	12	12	4'-10"	X		PARAPET VERT.
R507	X	2	2	19'-6"	X		PARAPET HORIZ.
R508	X	10	10	19'-6"			PARAPET HORIZ.

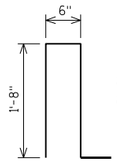


R501

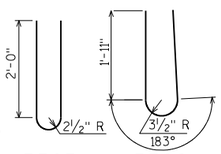


R502

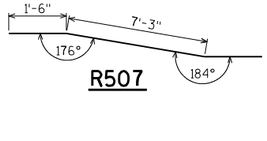
R503



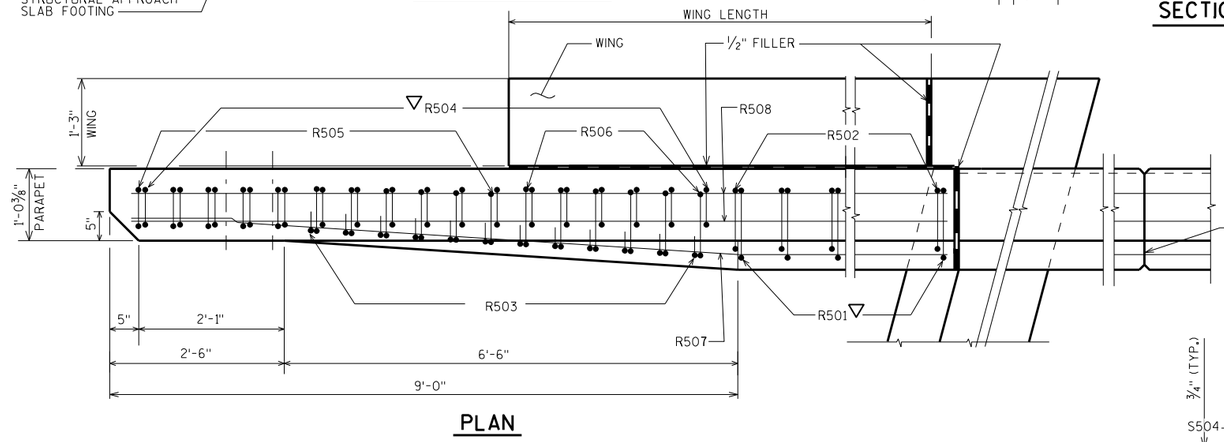
R504



R505 R506

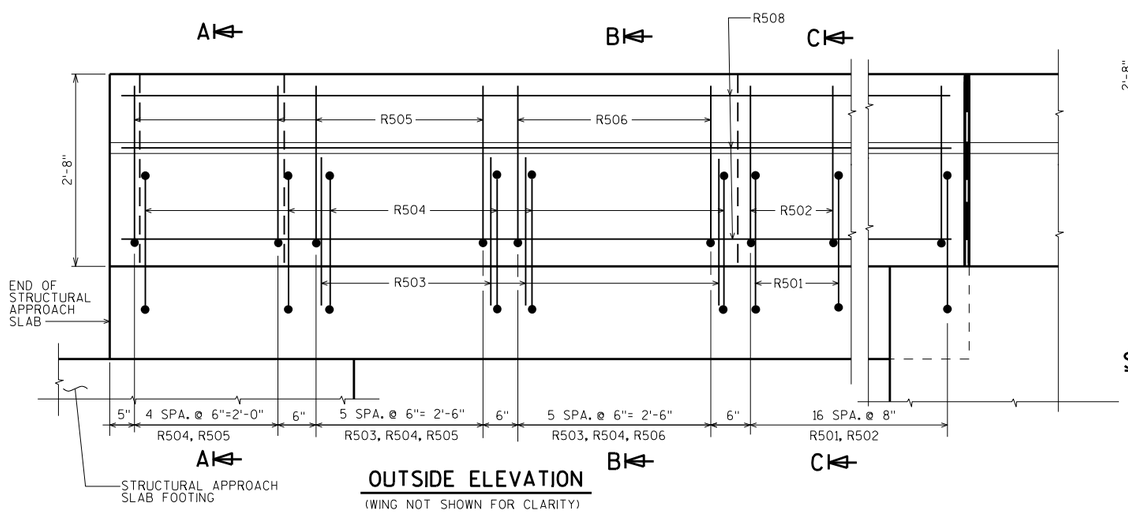


R507



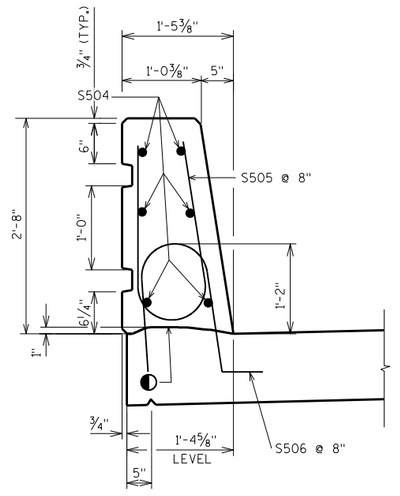
PLAN

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 ¾" - 'V' GROOVE.

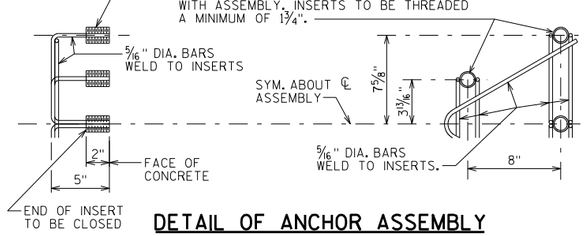


OUTSIDE ELEVATION

(WING NOT SHOWN FOR CLARITY)



SECTION THRU PARAPET ON BRIDGE



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.

◆ SLOPE FOR DRAINAGE

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

▽ R501 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 JJS | PLANS CK'D. SEW

MODIFIED SINGLE SLOPE PARAPET 32SS

SHEET 13

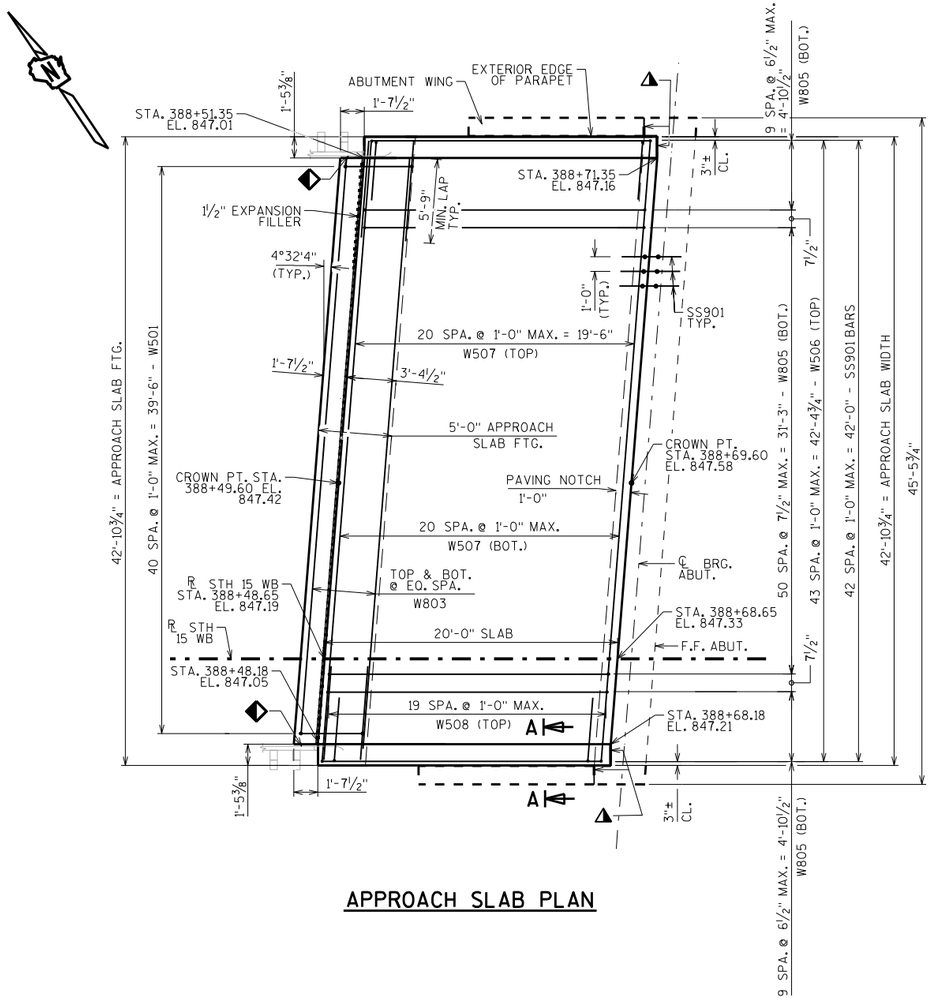
SCALE = 1.05

8

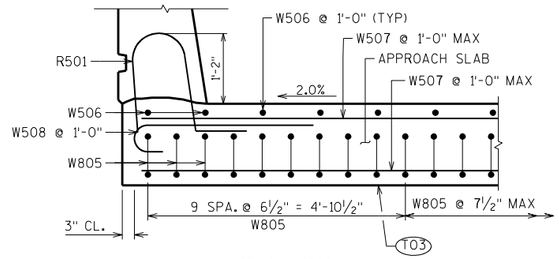
8

STATE PROJECT NUMBER

1146-75-71



APPROACH SLAB PLAN



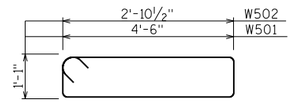
SECTION A-A

(NORTH END SIMILAR)

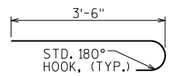
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

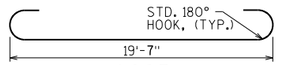
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
W501	X	41	11'-10"	X	FOOTING - STIRRUP
W502	X	4	8'-7"	X	FOOTING - STIRRUP ENDS
W803	X	12	39'-9"		FOOTING - TRANS. - TOP & BTM.
W804	X	16	7'-2"		FOOTING END - TRANS.- TOP & BTM.
W805	X	71	21'-5"	X	SLAB - LONGIT. - BTM.
W506	X	44	19'-6"		SLAB - LONGIT. - TOP
W507	X	42	42'-6"		SLAB - TRANS. - TOP & BOT.
W508	X	40	4'-1"	X	SLAB-TRANS.-TOP EDGE- BTWN. W507



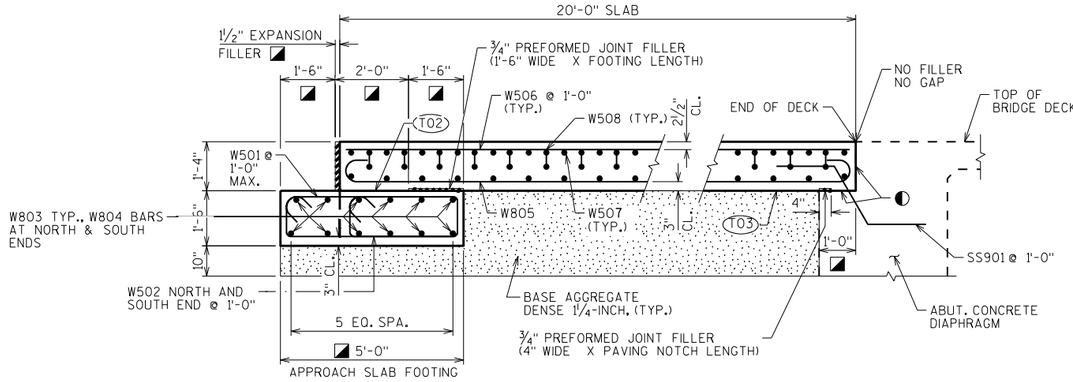
W501, W502



W508



W805



SECTION THRU APPROACH SLAB

◐ APPLY PROTECTIVE SURFACE TREATMENT TO PAVING NOTCH SURFACES PRIOR TO POURING STRUCTURAL APPROACH SLAB.

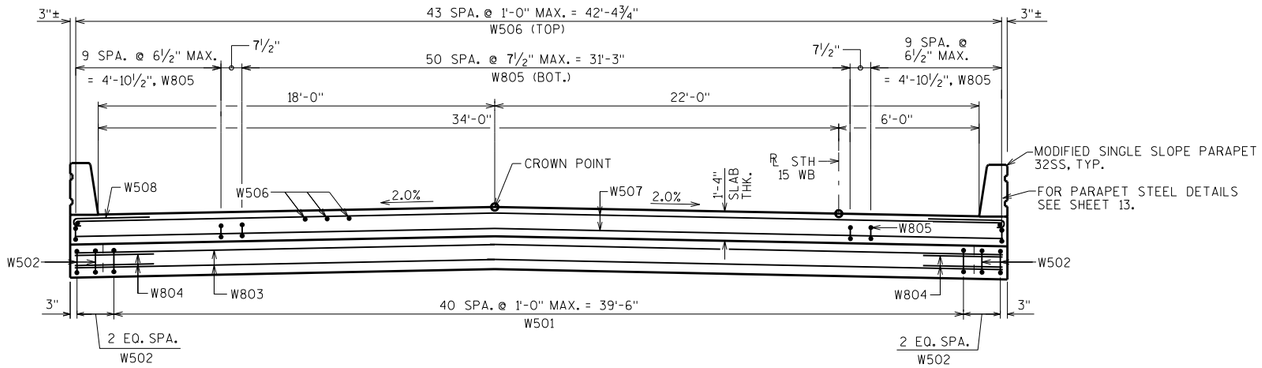
◪ MEASURED NORMAL TO ABUTMENT

(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



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.

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

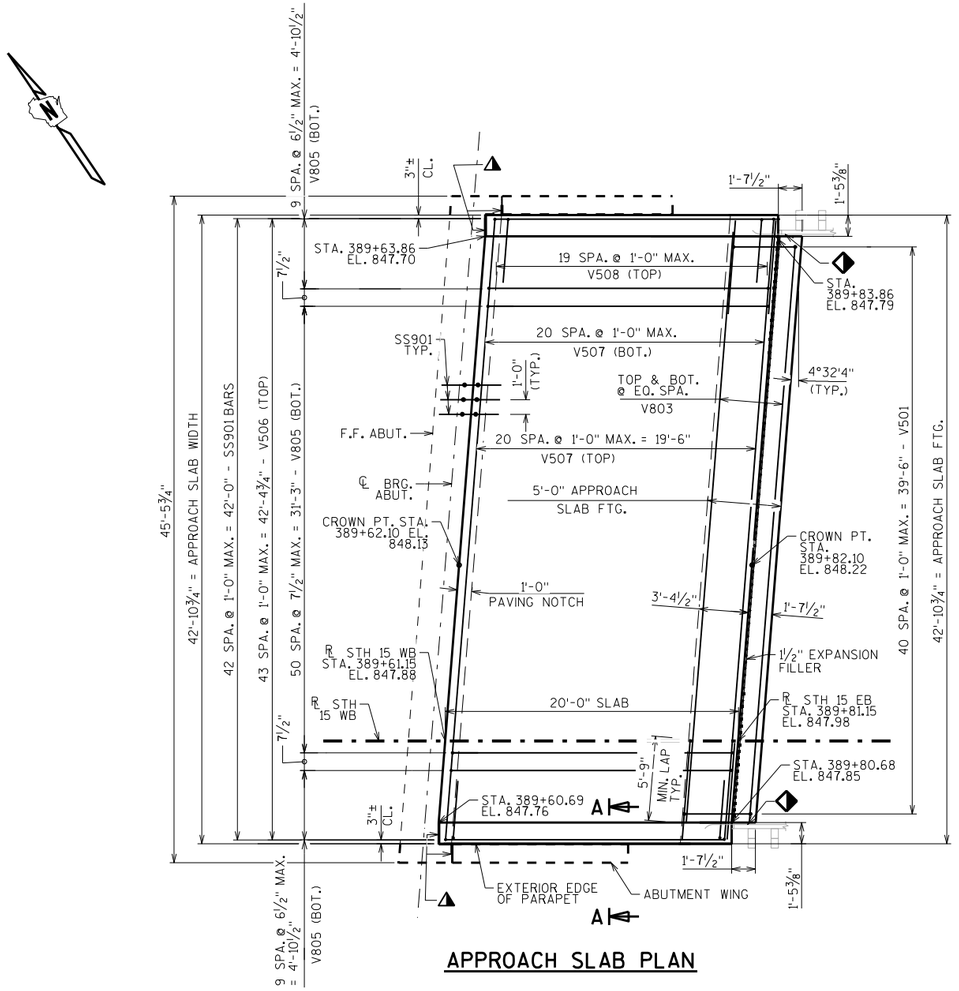
SCALE = 5.00

8

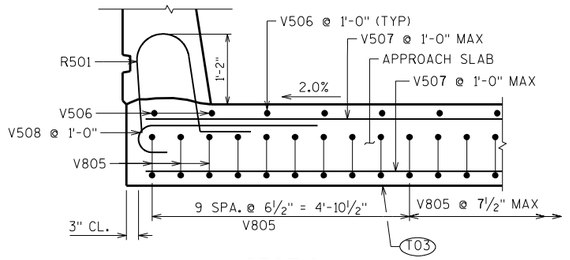
8

STATE PROJECT NUMBER

1146-75-71



APPROACH SLAB PLAN



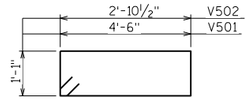
SECTION A-A

(NORTH END SIMILAR)

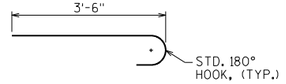
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

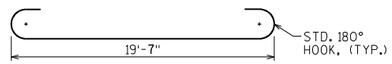
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
V501	X	41	11'-10"	X	FOOTING - STIRRUP
V502	X	4	8'-7"	X	FOOTING - STIRRUP ENDS
V803	X	12	39'-9"		FOOTING - TRANS. - TOP & BTM.
V804	X	16	7'-2"		FOOTING END - TRANS.
V805	X	71	21'-5"	X	SLAB - LONGIT. - BTM.
V506	X	44	19'-6"		SLAB - LONGIT. - TOP
V507	X	42	42'-6"		SLAB - TRANS. - TOP & BOT.
V508	X	40	4'-1"	X	SLAB END - BTWN. V507 - TRANS.



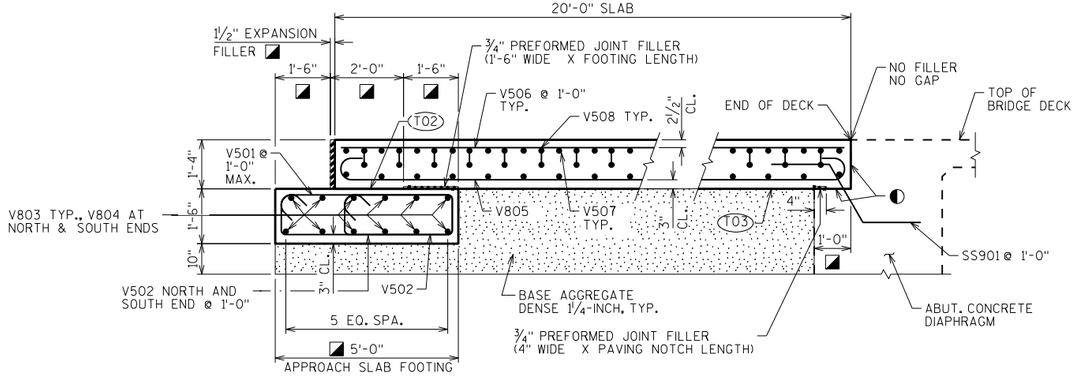
V501, V502



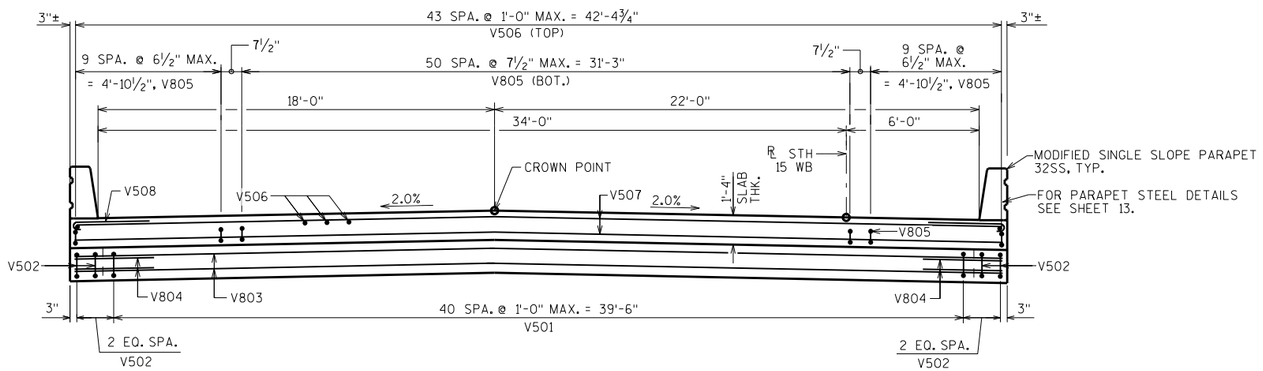
V508



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-44-294

DRAWN BY JJS | PLANS CK'D. SEW

EAST STRUCTURAL APPROACH SLAB

SHEET 15

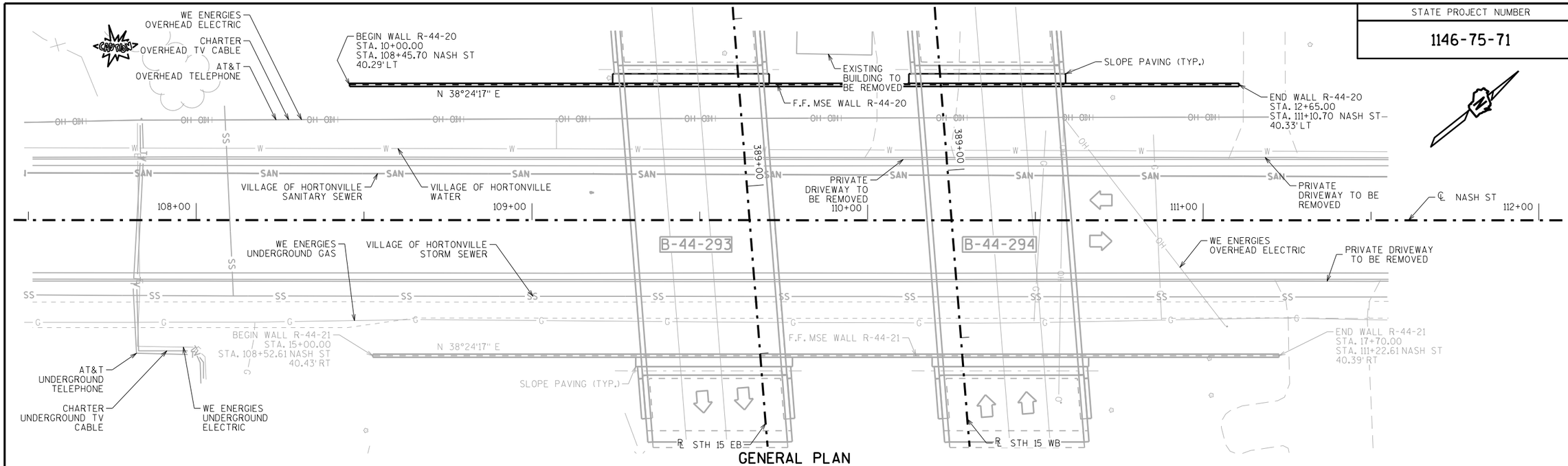
SCALE = 5.00

8

8

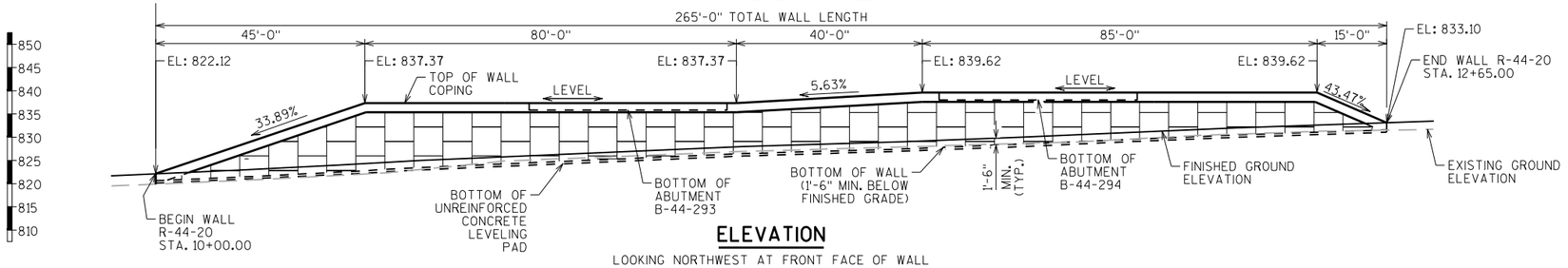
STATE PROJECT NUMBER

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 LRFD/QMP".

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 LRFD/QMP" 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 LRFD/QMP".

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 LRFD/QMP

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

AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION — BUREAU OF STRUCTURES

ACCEPTED _____ 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

I.D. 1146-75-00P

DATE: MAR. 2017

SCALE = 15.00

8

8

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 LRFD/OMP	SF	2775
	NON-BID ITEMS		
	NON-BITUMINOUS JOINT SEALER	SIZE	1"
	PREFORMED JOINT FILLER	SIZE	3/4"
	EXPANDED POLYSTYRENE	SIZE	1"
	CORK FILLER	SIZE	1"

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-20

DRAWN BY JJS | PLANS CK'D. SEW

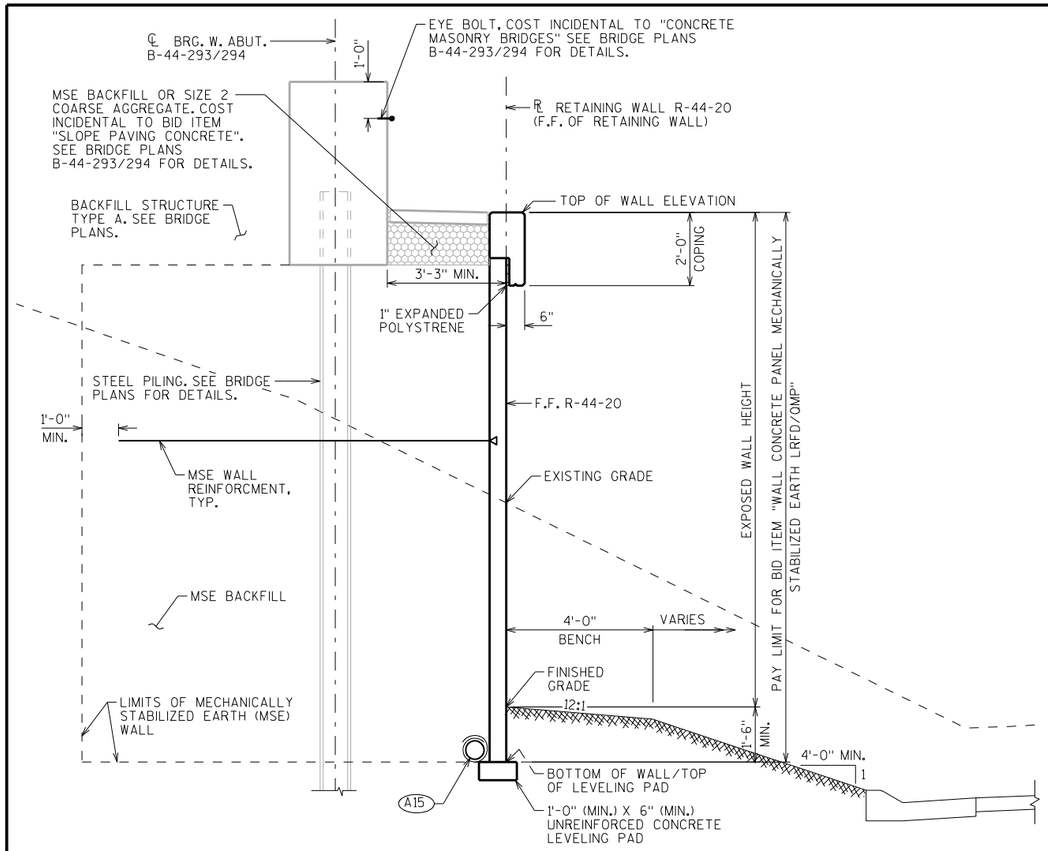
QUANTITIES, WALL DATA & PROFILES

SHEET 2

SCALE = 1.00

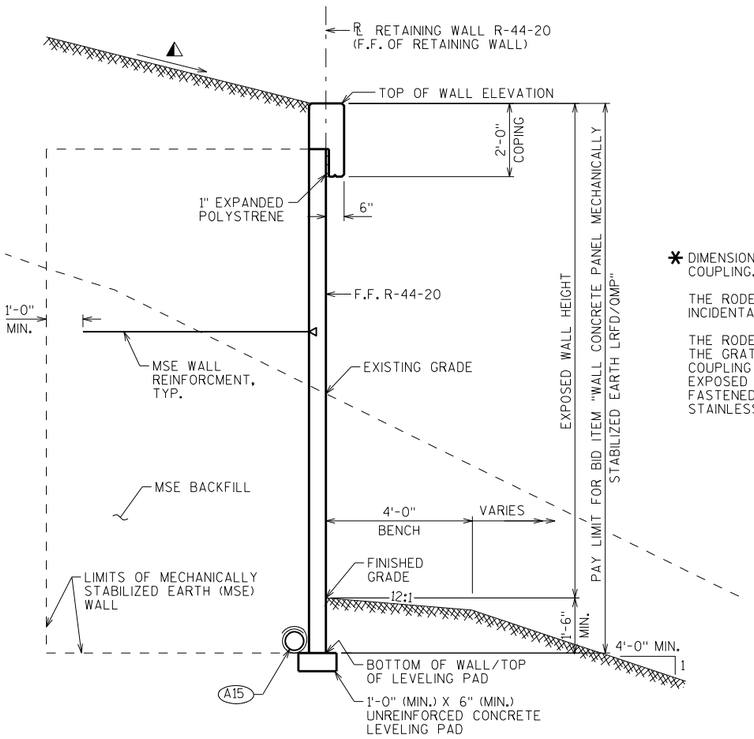
STATE PROJECT NUMBER

1146-75-71



TYPICAL SECTION AT ABUTMENT

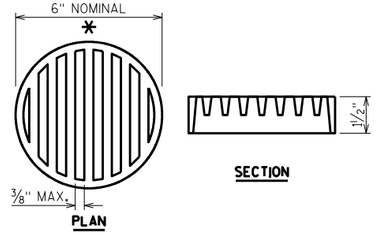
LOOKING NORTHEAST (WALL STATION)
STA. 10+78.00 TO 11+26.00
STA. 11+66.00 TO 12+14.00



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

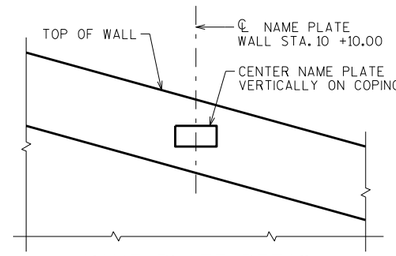


RODENT SHIELD DETAIL

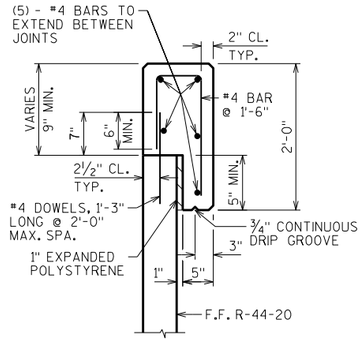
* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

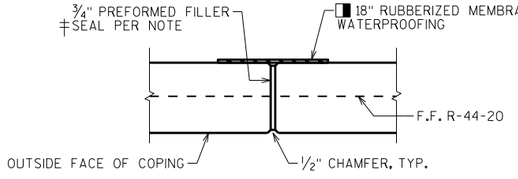
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHEMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



NAME PLATE DETAIL



CAST-IN-PLACE CONCRETE COPING DETAIL

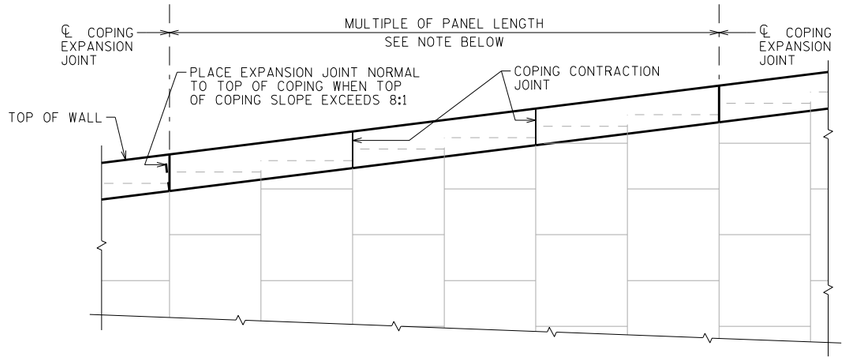


COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

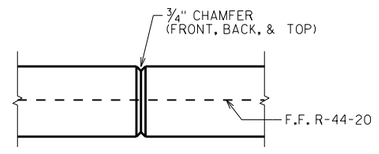
‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONC.)

◨ 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

SCALE = 2.00

8

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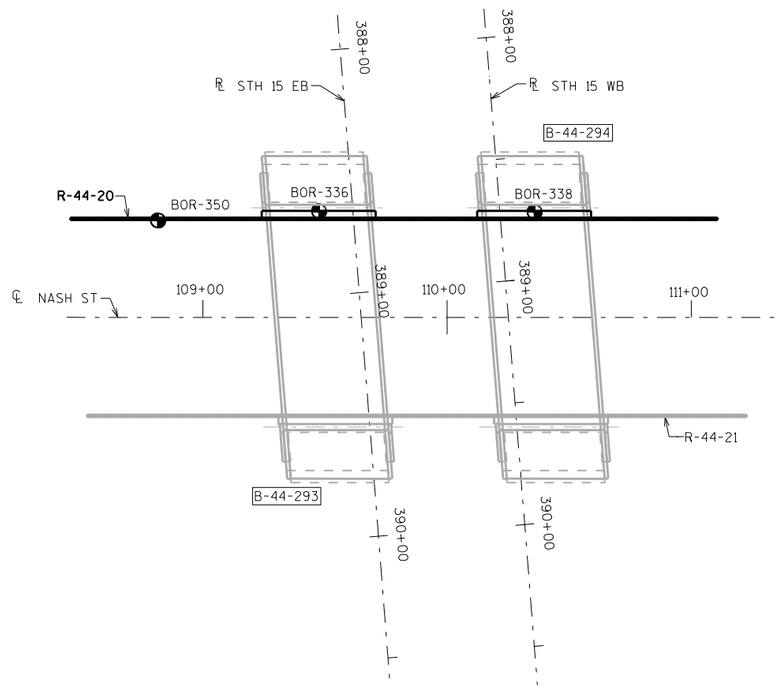
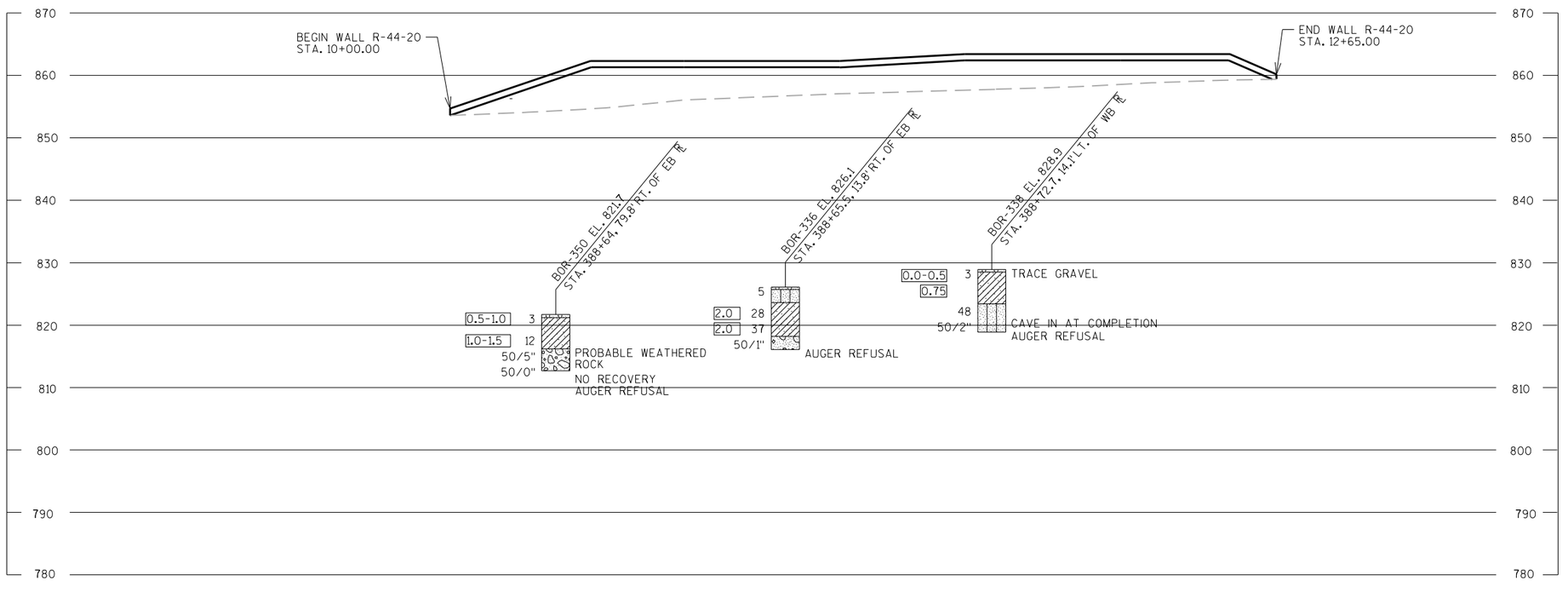
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
336	3/31/2014	591890	768785
338	3/31/2014	591959	768840
350	3/31/2014	591836	768747

BORINGS COMPLETED BY: GESTRA

REPORT COMPLETED BY: CH2M HILL

ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY





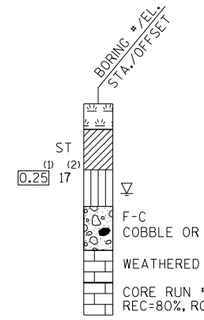
STATE PROJECT NUMBER

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 | PLANS CK'D. SEW

SUBSURFACE EXPLORATION

SHEET 4

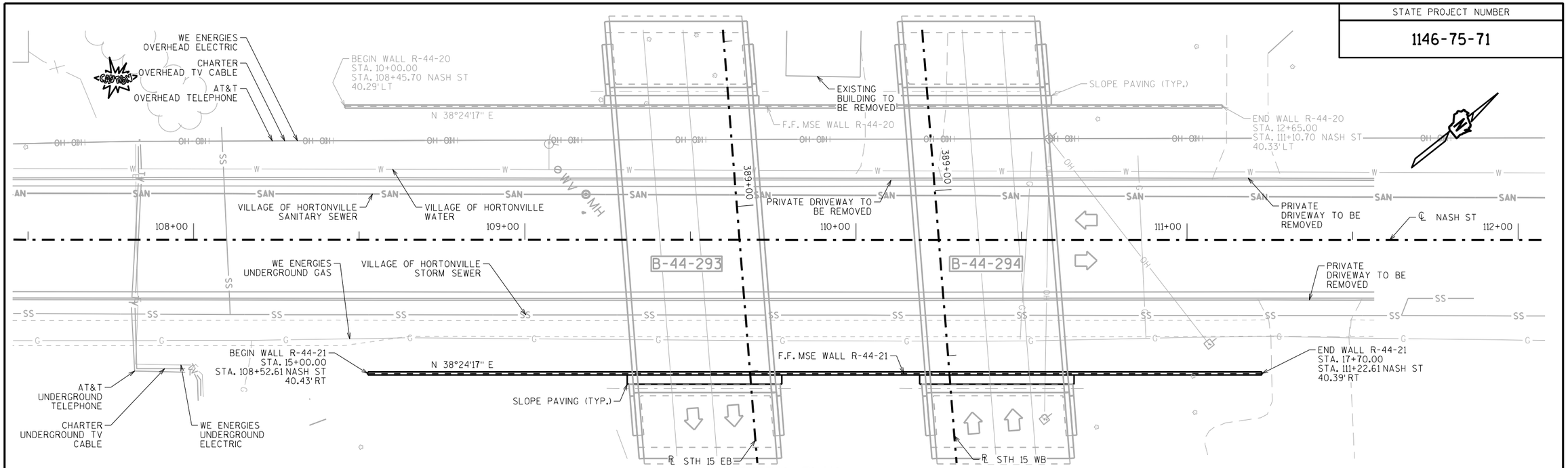
8

8

SCALE = 30.0

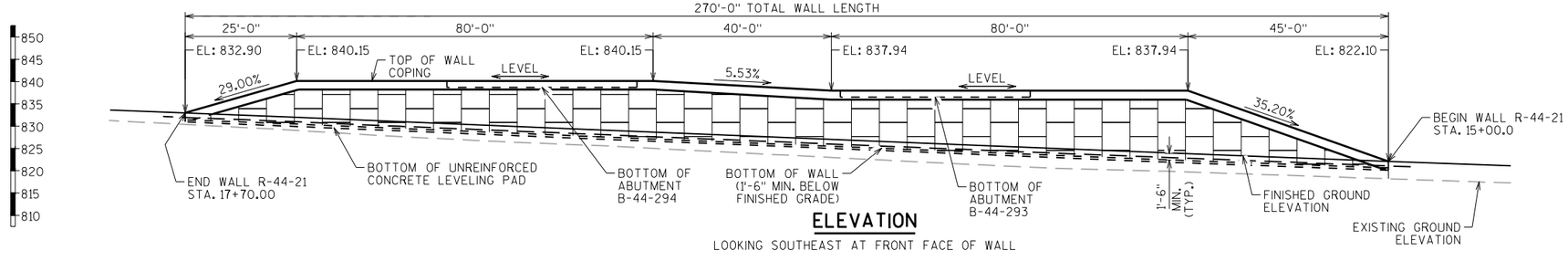
STATE PROJECT NUMBER

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 LRFD/OMP".

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 LRFD/OMP" 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 LRFD/OMP".

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/OMP".

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 LRFD/OMP

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

AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ _____
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

I.D. 1146-75-000

DATE: MAR. 2017

SCALE = 15.00

8

8

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 LRFD/OMP	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

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-44-21

DRAWN BY JJS | PLANS CK'D. SEW

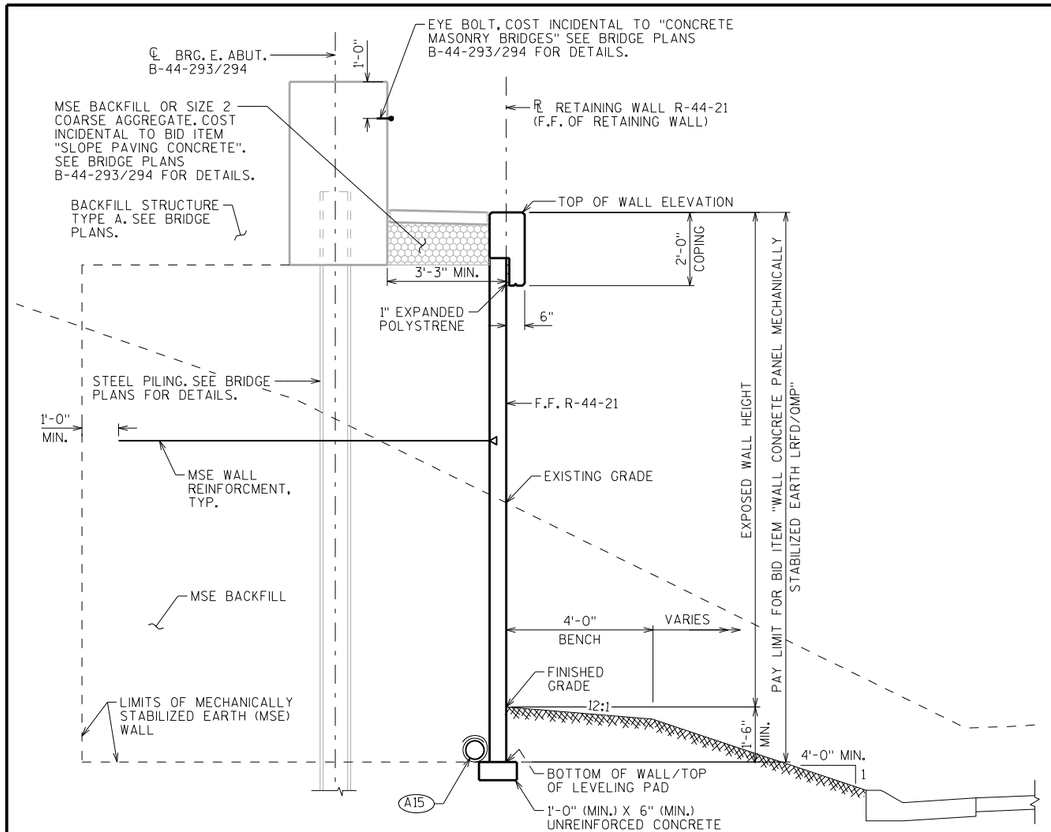
QUANTITIES, WALL DATA & PROFILES

SHEET 2

SCALE = 1.00

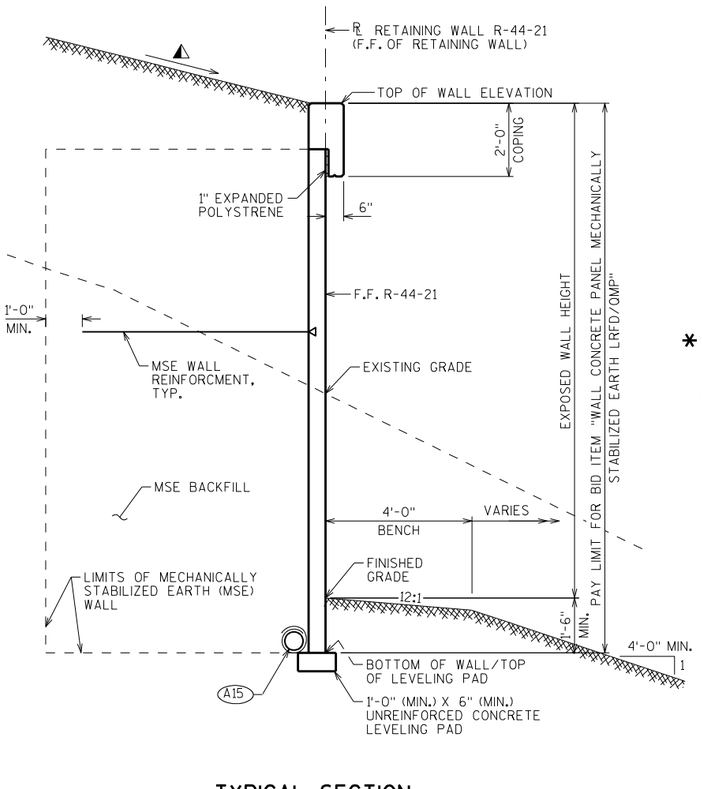
STATE PROJECT NUMBER

1146-75-71



TYPICAL SECTION AT ABUTMENT

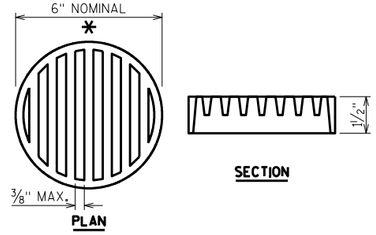
LOOKING SOUTHEAST (WALL STATION)
STA. 15+78.36 TO 16+25.01
STA. 16+66.63 TO 17+13.28



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.

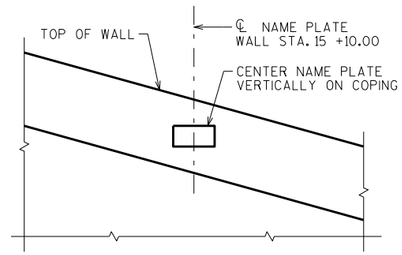


RODENT SHIELD DETAIL

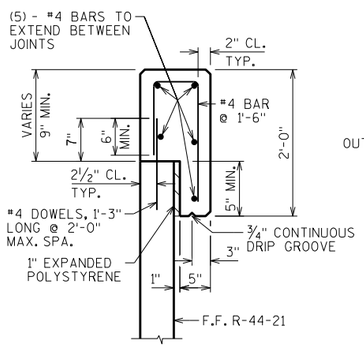
* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

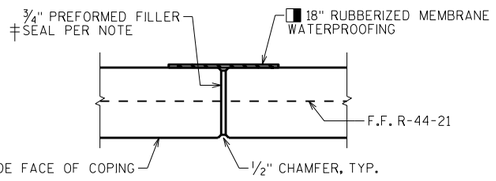
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHEMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



NAME PLATE DETAIL



CAST-IN-PLACE CONCRETE COPING DETAIL

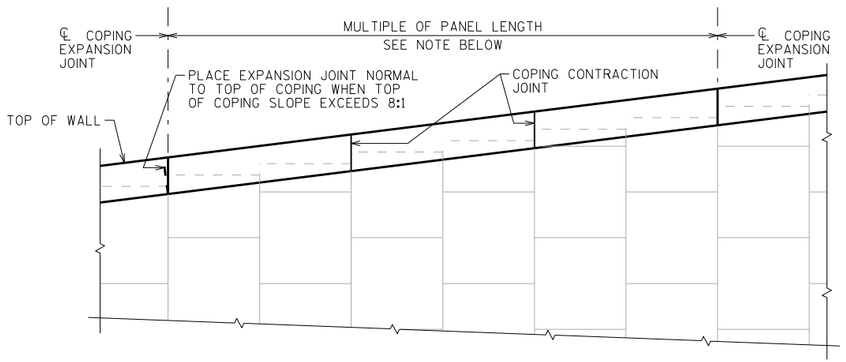


COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

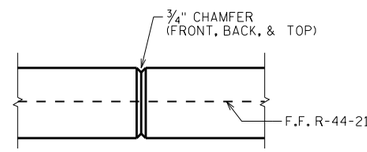
‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

◨ 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

8

8

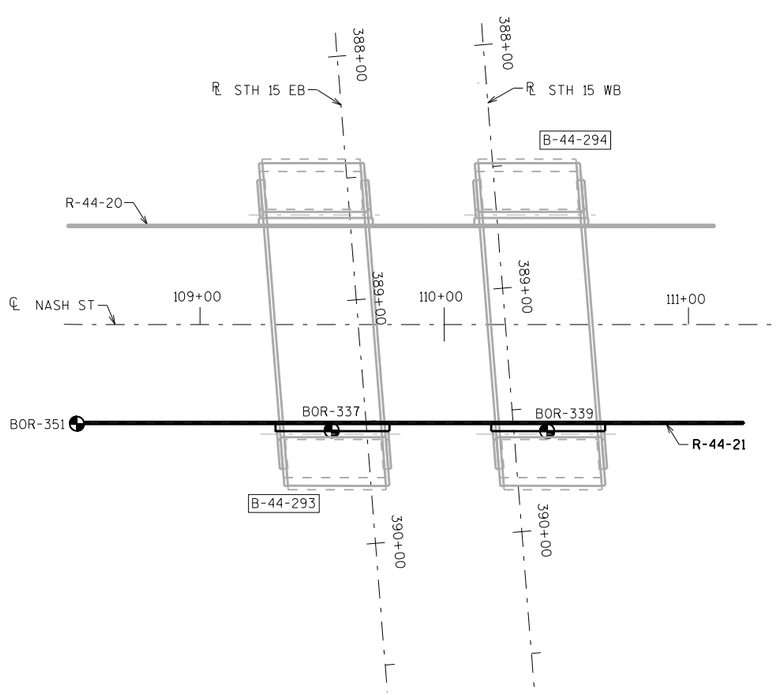
SCALE = 2.00

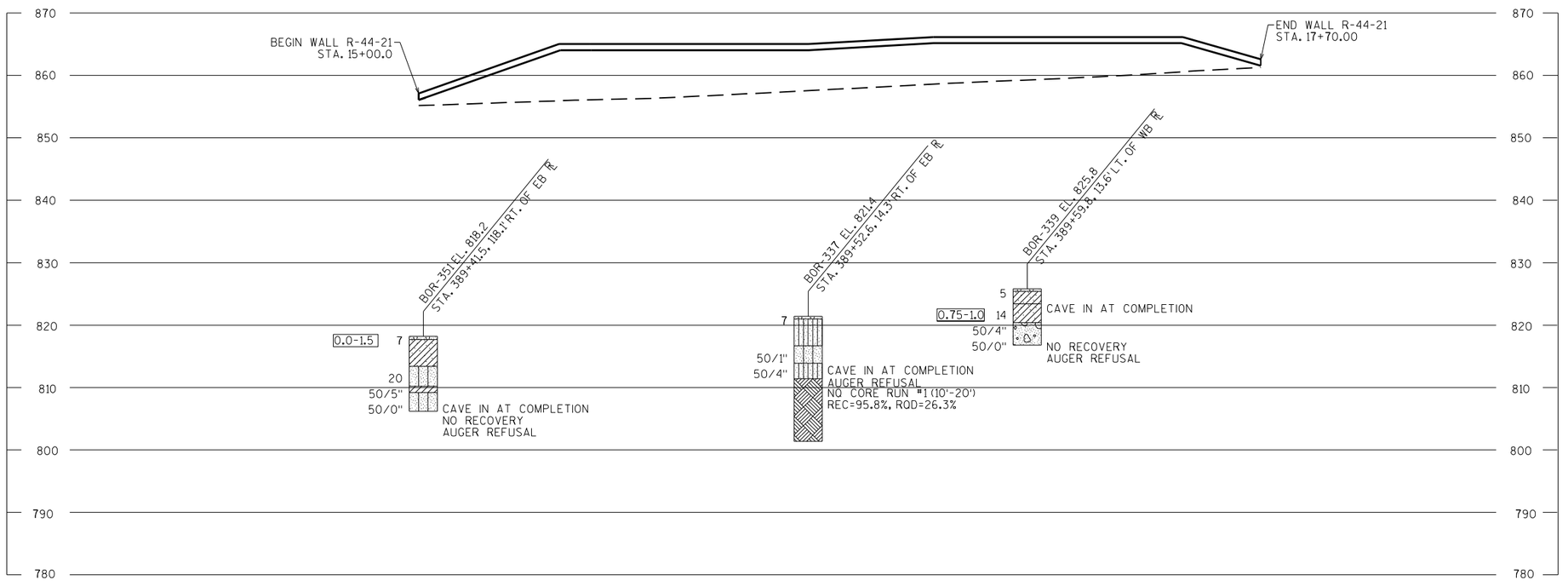
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
337	3/31/2014	591841	768857
339	3/31/2014	591910	768912
351	3/31/2014	591761	768790

BORINGS COMPLETED BY: GESTRA

REPORT COMPLETED BY: CH2M HILL

ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY





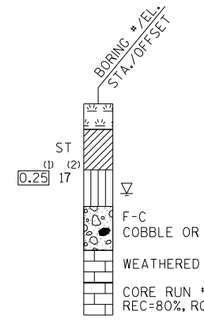
STATE PROJECT NUMBER

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
- ▽ 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-44-21

DRAWN BY TLP | PLANS CK'D. SEW

SUBSURFACE EXPLORATION

SHEET 4

8

8

SCALE = 30.0

STATE PROJECT NUMBER

1146-75-71

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.13
OPERATING RATING FACTOR: RF = 1.47
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250 KIPS

STRUCTURE IS DESIGN 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.

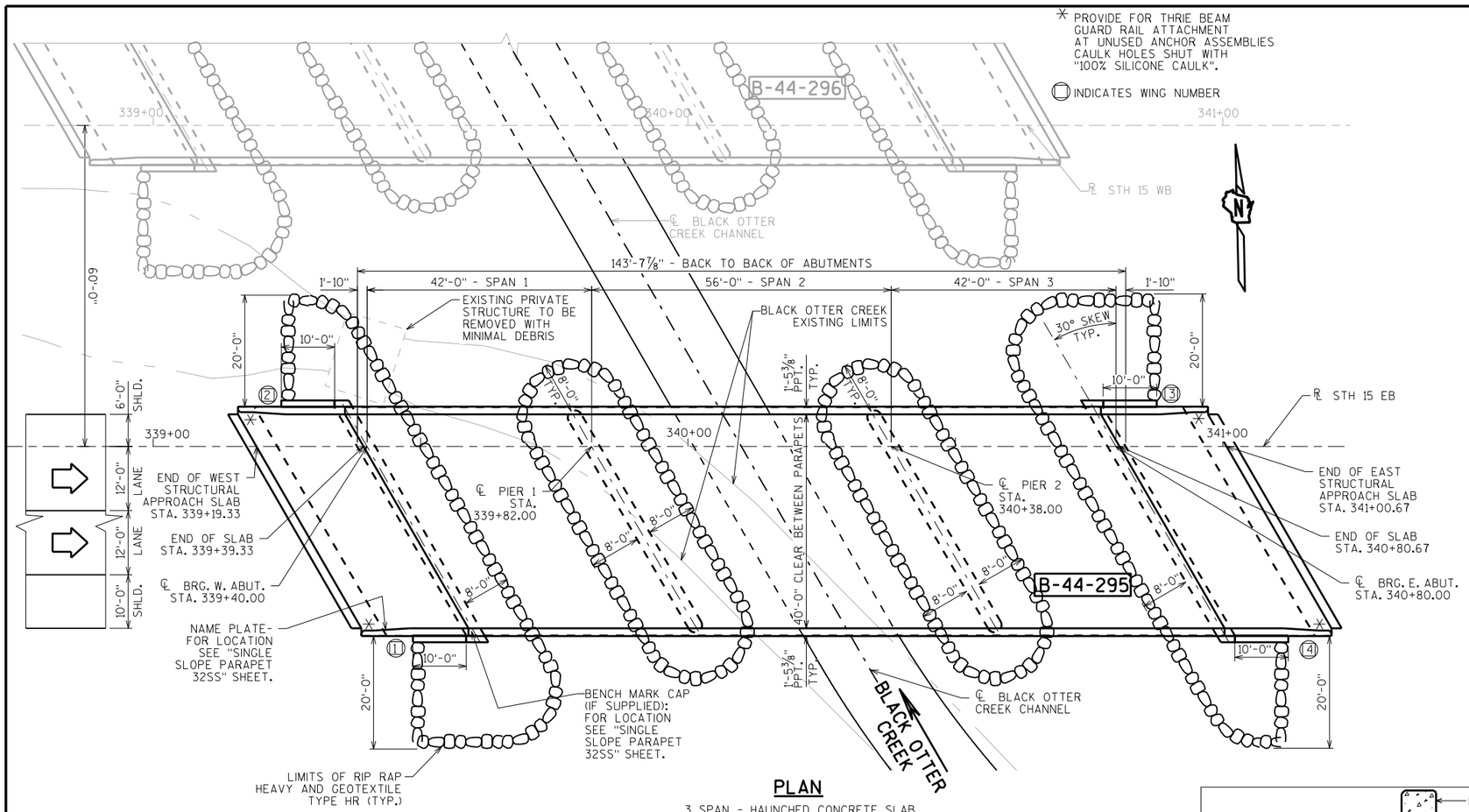
TRAFFIC VOLUME

S.T.H. 15
A.D.T. = 15,000 (2040)
R.D.S. = 60 M.P.H.

HYDRAULIC DATA

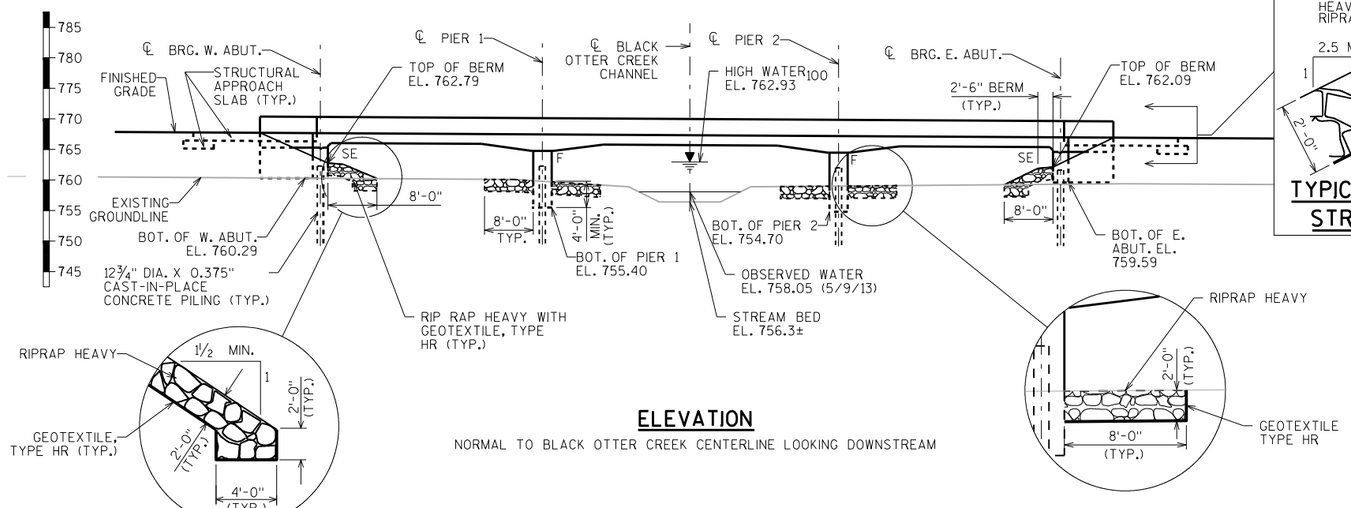
100 YEAR FREQUENCY
Q_{100} = 1390 C.F.S.
VEL. = 5.9 F.P.S.
HW_{100} = EL. 762.93
WATERWAY AREA = 235 SQ. FT.
DRAINAGE AREA = 16.5 SQ. MI.
SCOUR CRITICAL CODE = 5
ROADWAY OVERTOPPING = N/A

2 YEAR FREQUENCY
Q_2 = 340 C.F.S.
VEL. = 2.6 F.P.S.
HW_2 = EL. 761.04



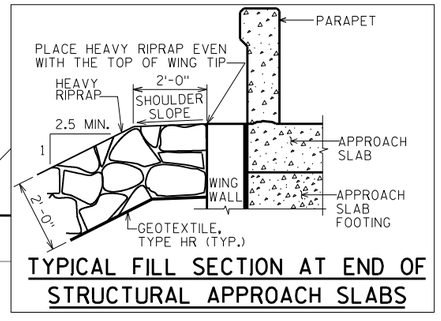
PLAN

3 SPAN - HAUNCHED CONCRETE SLAB



ELEVATION

NORMAL TO BLACK OTTER CREEK CENTERLINE LOOKING DOWNSTREAM



TYPICAL FILL SECTION AT END OF STRUCTURAL APPROACH SLABS

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 32SS
17. SUPERSTRUCTURE & APPROACH SLAB BAR DETAILS

STRUCTURE DESIGN CONTACTS:
MAX KULICK: (608) 261-6108
AARON BONK: (608) 261-0261

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-44-295

STH 15 EB 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	MJK

GENERAL PLAN

SHEET 1 OF 17

I.D. 1146-75-00K

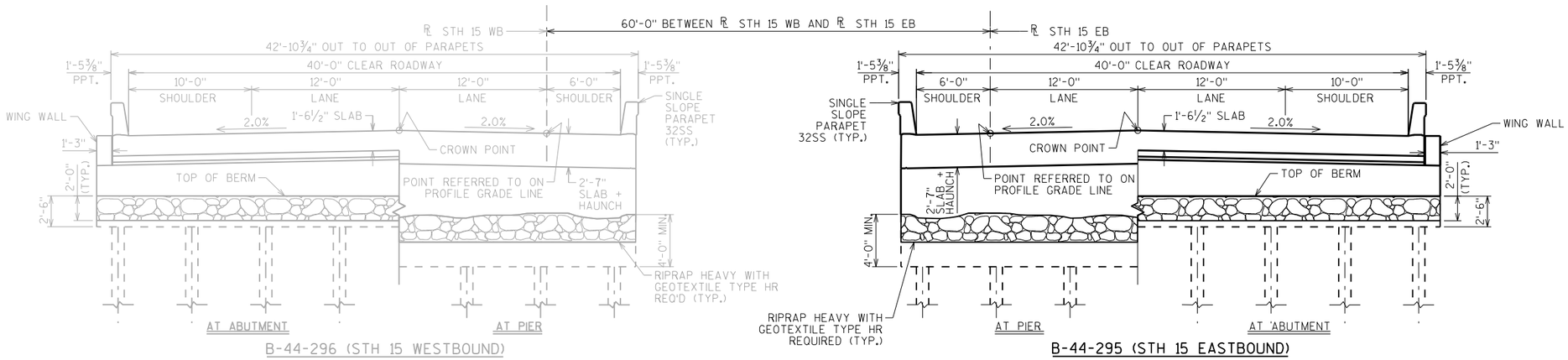
DATE: FEB. 2017

SCALE = 12.00

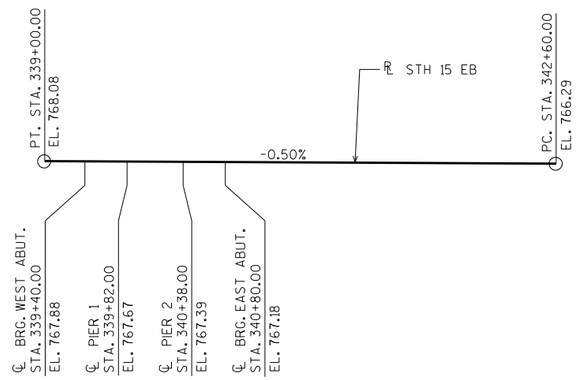
8

8

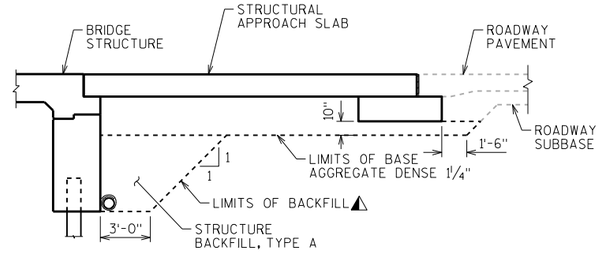
STATE PROJECT NUMBER
1146-75-71



CROSS SECTION THRU ROADWAY LOOKING EAST (UPSTATION)



PROFILE GRADE LINE - STH 15 EB



TYPICAL SECTION THRU ABUTMENT

(A1 ABUTMENT WITH STRUCTURAL APPROACH)

⚠ 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.	PIER 1	PIER 2	EAST ABUT.	EAST APPROACH	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	———	———	75	———	———	75	———	150
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	———	131	———	———	———	———	131	262
502.0100	CONCRETE MASONRY BRIDGES	CY	423	60	43	42	44	43	60	715
502.3200	PROTECTIVE SURFACE TREATMENT	SY	655	90	———	———	———	———	90	835
502.3210	PIGMENTED SURFACE SEALER	SY	117	17	———	———	———	———	17	151
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	92,980	10,520	1,250	———	———	1,250	10,520	116,520
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
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	———	2	———	———	———	———	2	4
645.0120	GEOTEXTILE TYPE HR	SY	———	———	192	143	143	192	———	670
	NON-BID ITEMS									
	FILLER	SIZE	———	———	———	———	———	———	———	½", ¾", 1½"

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. 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.

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 & APPROACH 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, INCLUDING PARAPETS ON STRUCTURAL APPROACH SLABS.

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.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-295

DRAWN BY JPH | PLANS CK'D. MJK

CROSS SECTION & QUANTITIES

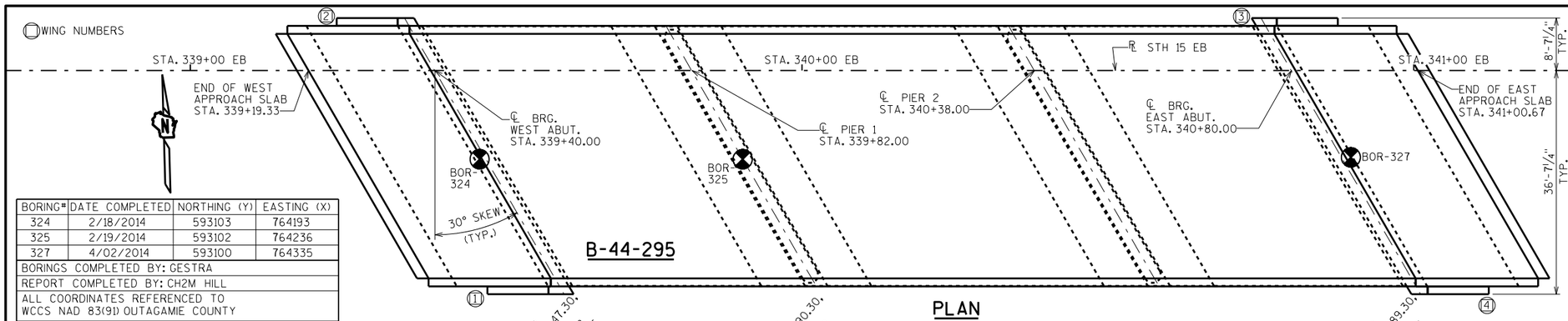
SHEET 2

8

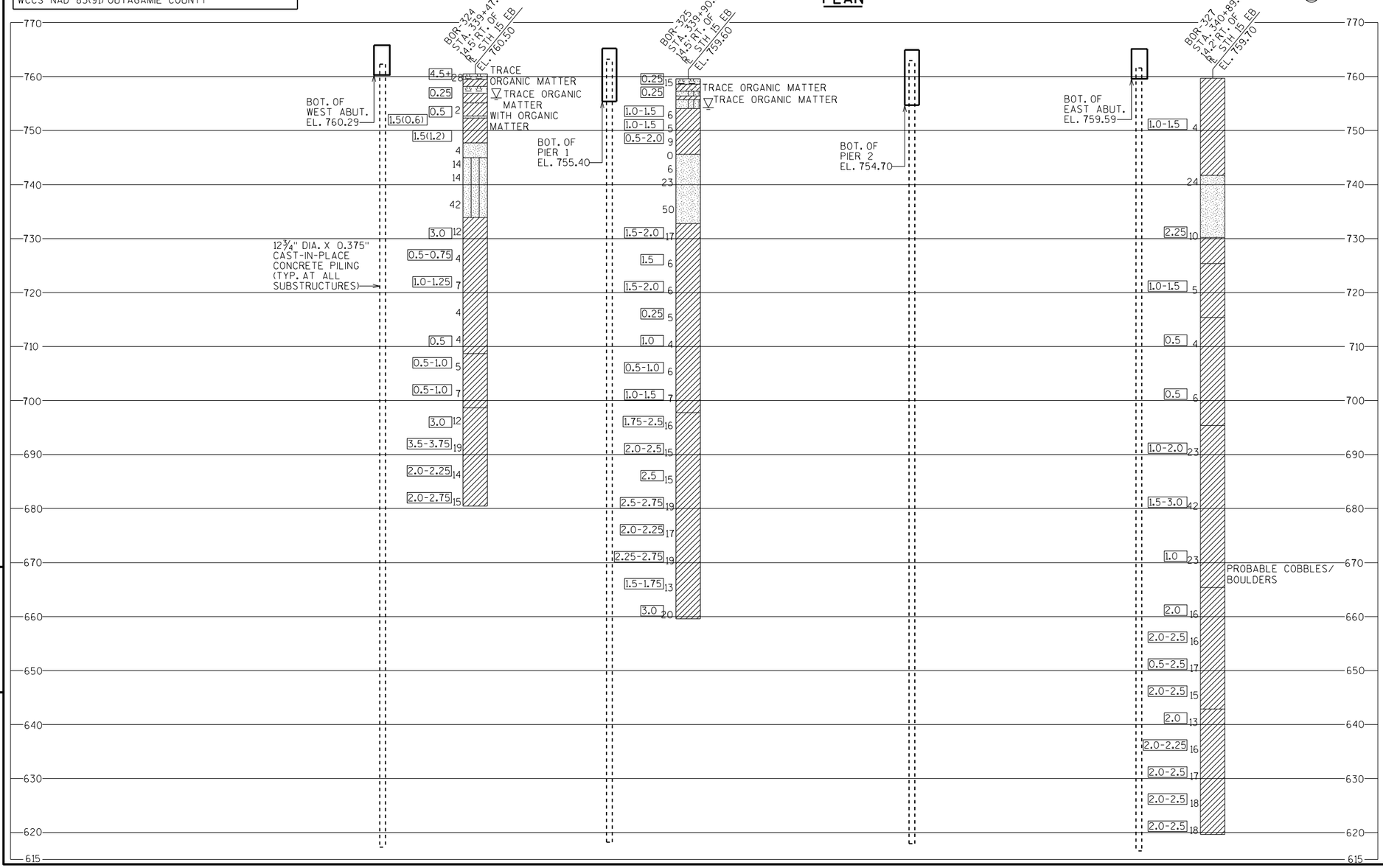
8

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			



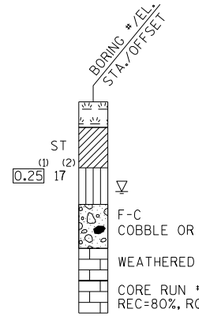
STATE PROJECT NUMBER

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

SHEET 3

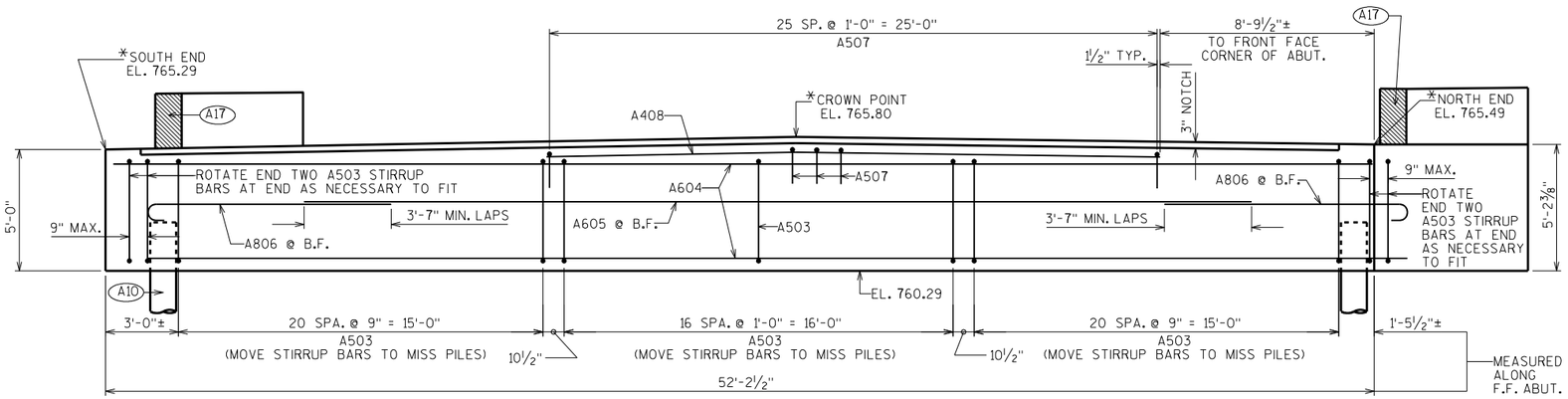
SCALE = 10.00

8

8

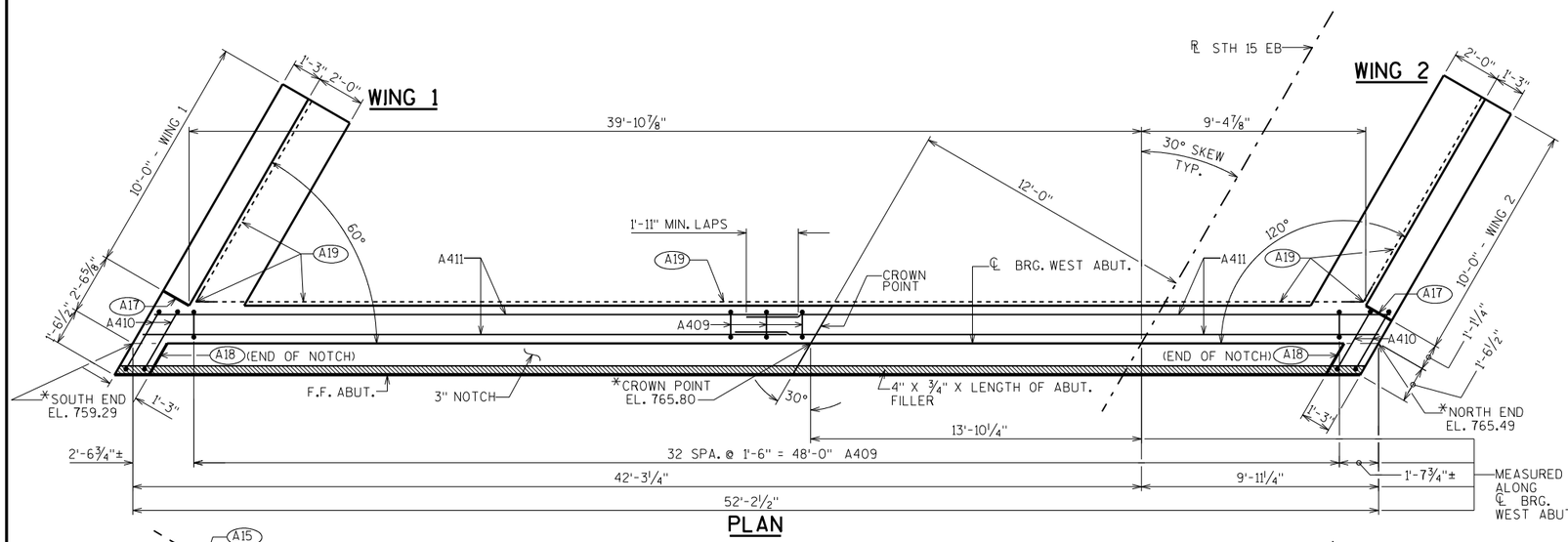
STATE PROJECT NUMBER

1146-75-71

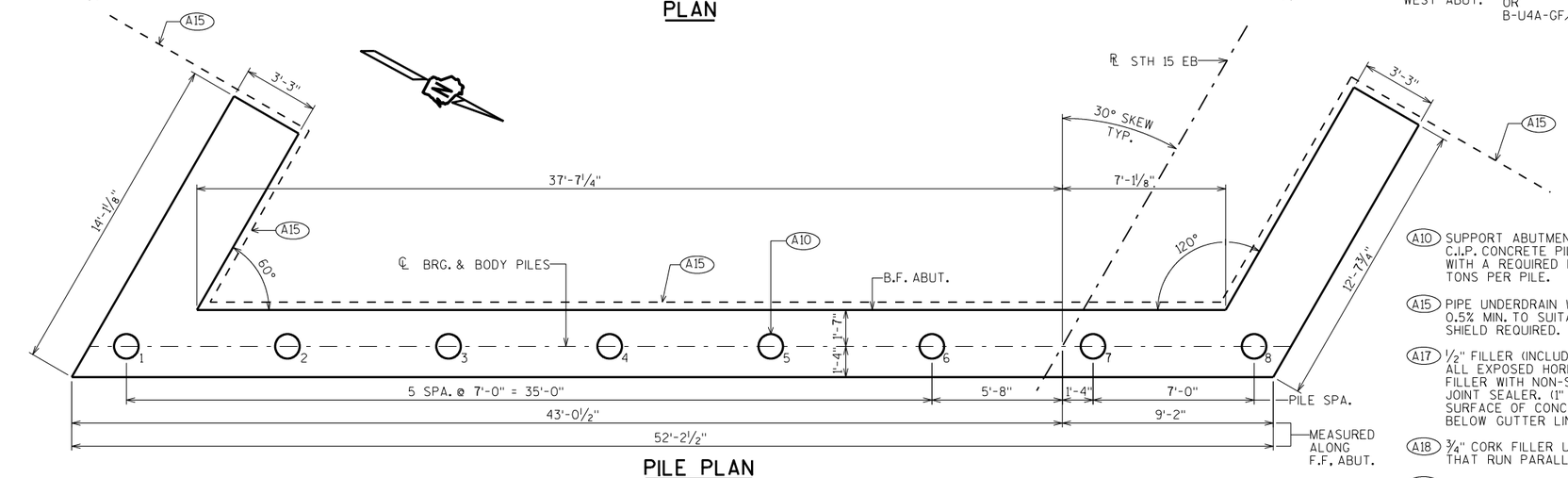


ELEVATION LOOKING WEST @ F.F. ABUT.

*TOP OF ABUT. ELEVATIONS ARE GIVEN HERE AT ℄ BRG. WEST ABUT.

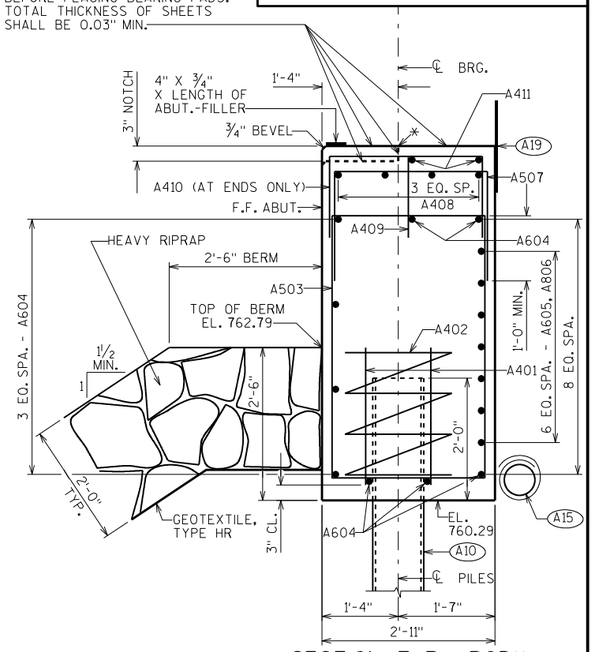


PLAN

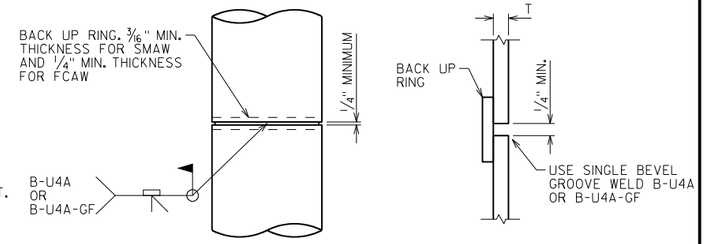


PILE PLAN

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.

(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

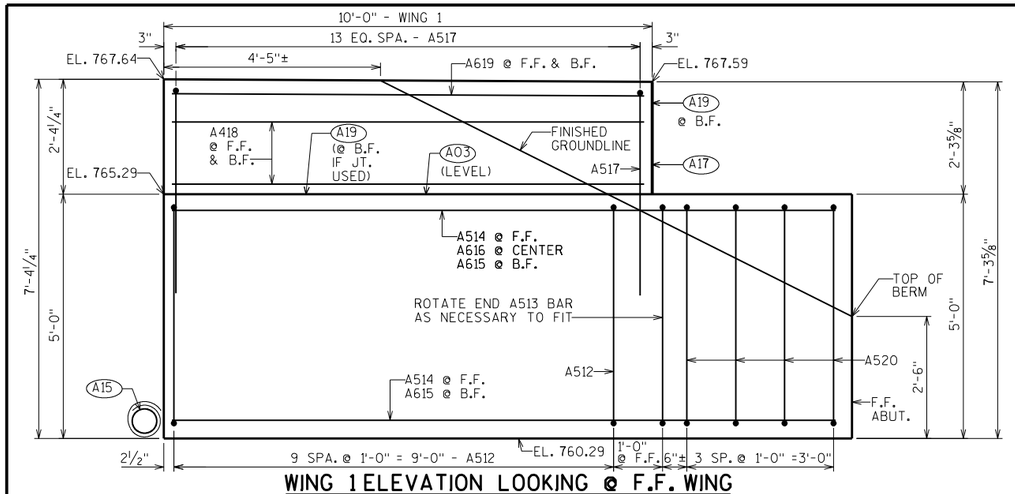
WEST ABUTMENT

SHEET 4

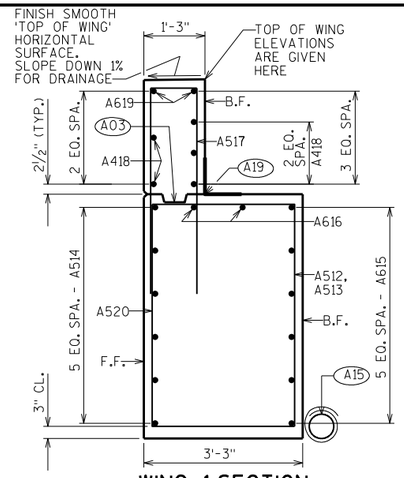
SCALE = 3.00

8

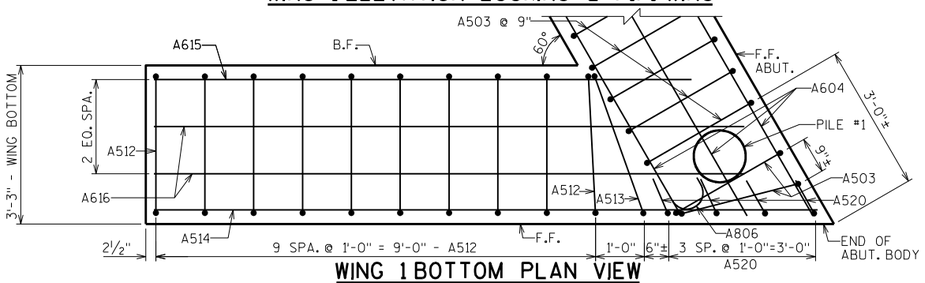
8



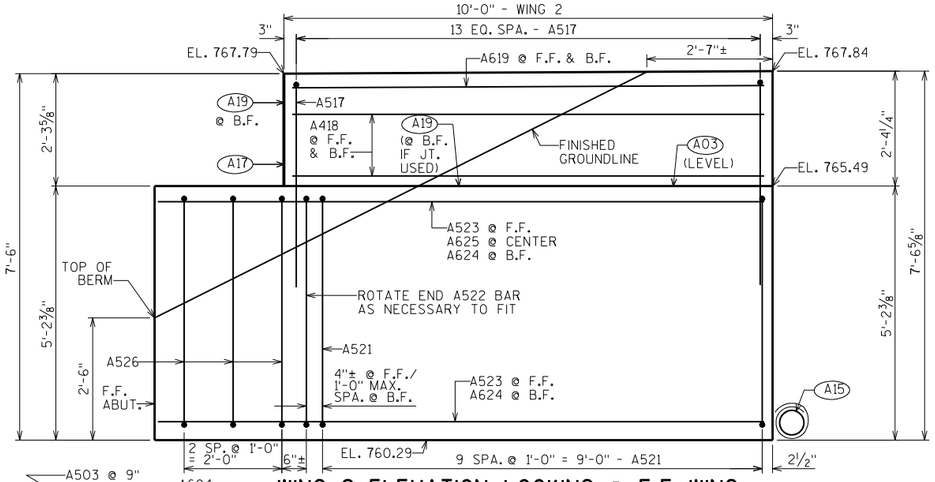
WING 1 ELEVATION LOOKING @ F.F. WING



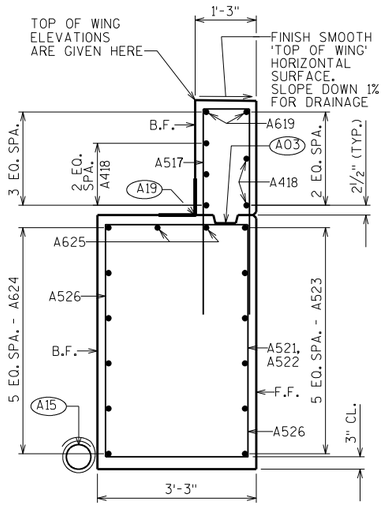
WING 1 SECTION



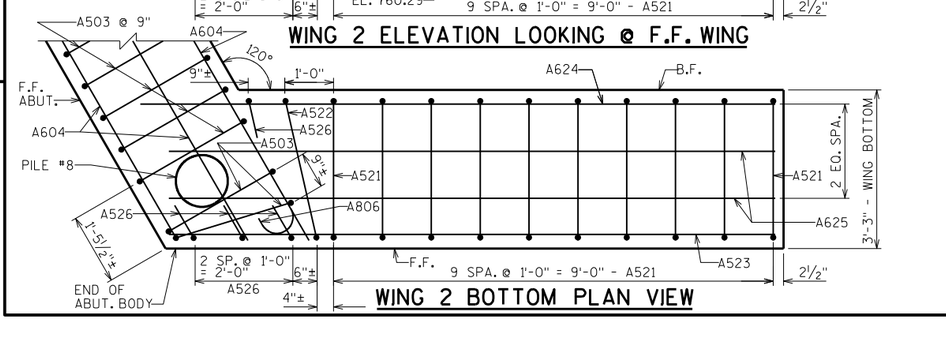
WING 1 BOTTOM PLAN VIEW



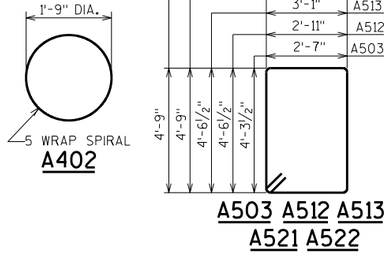
WING 2 ELEVATION LOOKING @ F.F. WING



WING 2 SECTION



WING 2 BOTTOM PLAN VIEW



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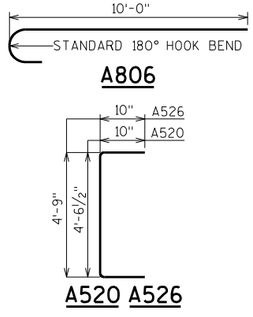
A521 A522



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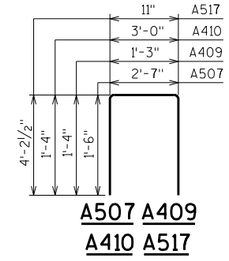
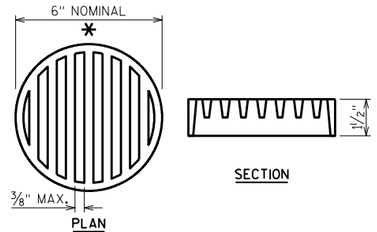


A507 A409
A410 A517



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" x 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

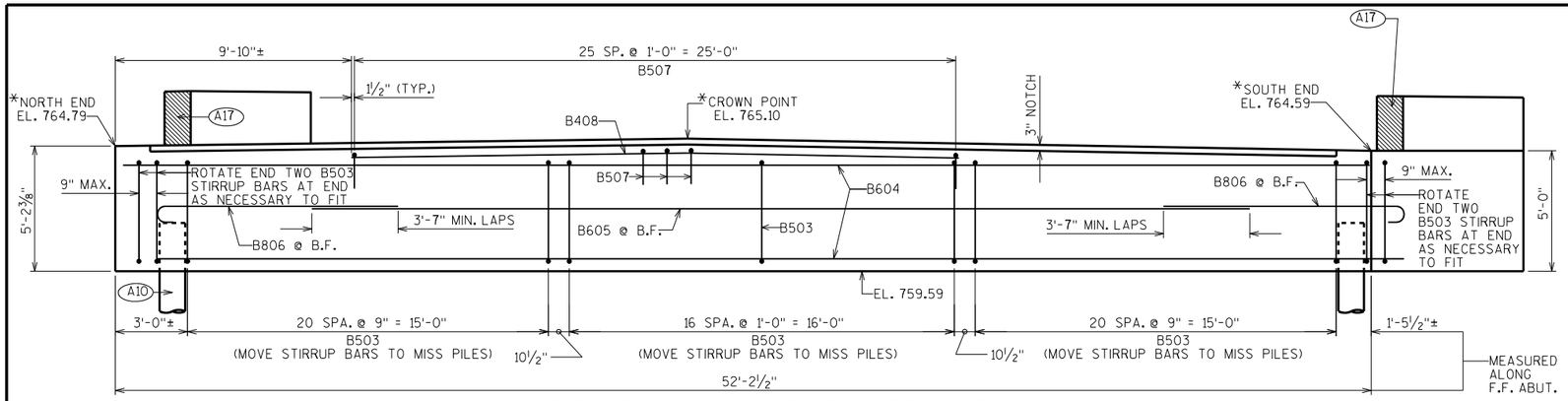
8

8

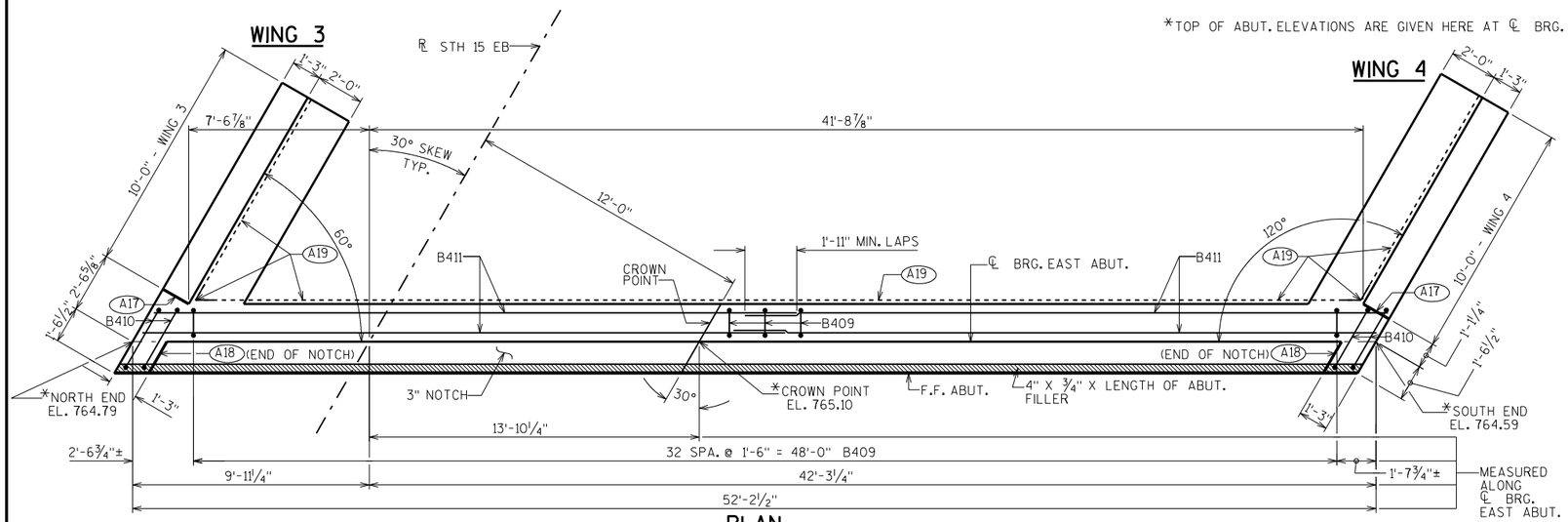
SCALE = 1.50

STATE PROJECT NUMBER

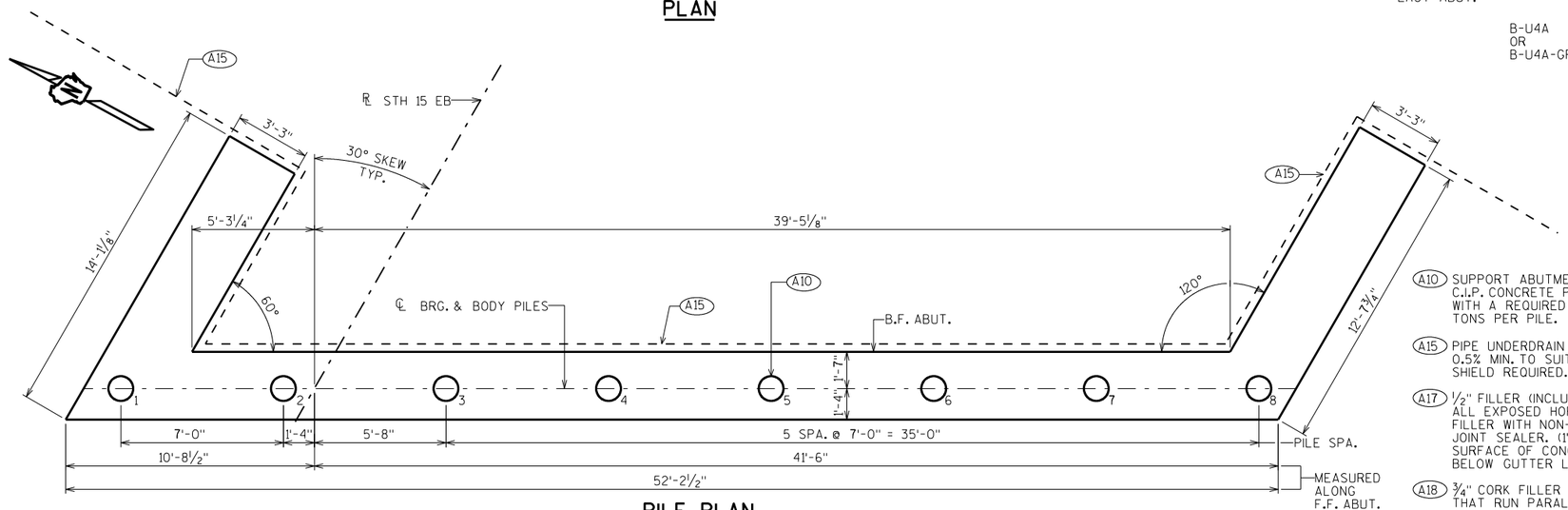
1146-75-71



ELEVATION LOOKING EAST @ F.F. ABUT.



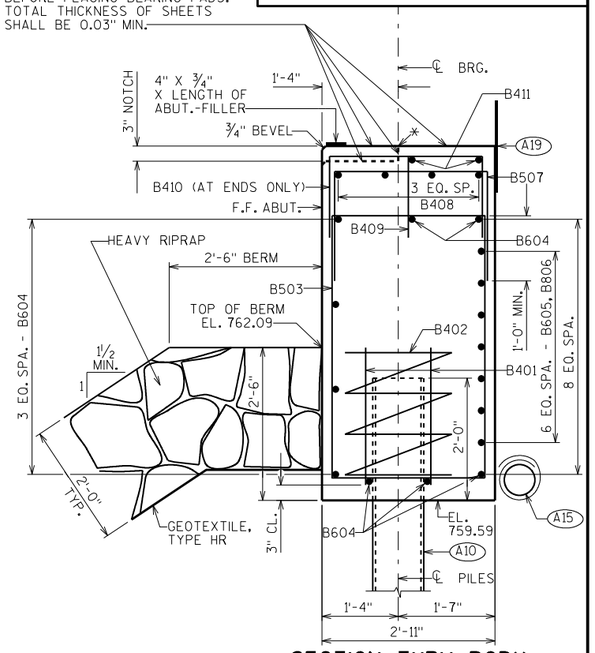
PLAN



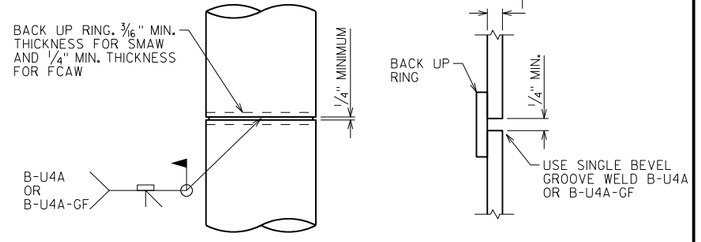
PILE PLAN

*TOP OF ABUT. ELEVATIONS ARE GIVEN HERE AT ℄ BRG. EAST 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

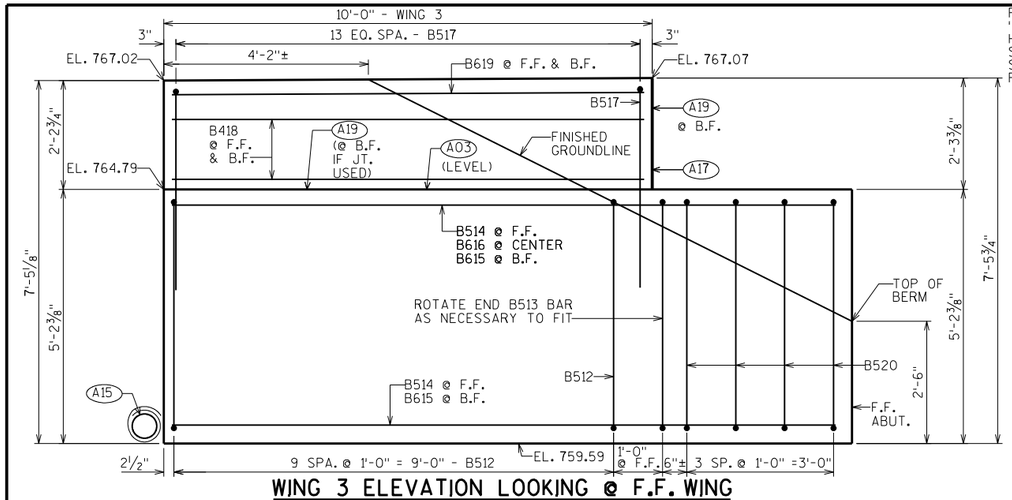
EAST ABUTMENT

SHEET 6

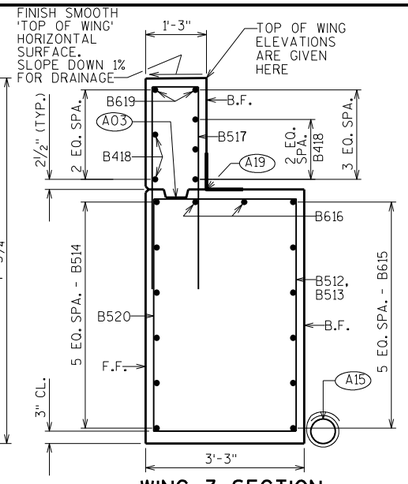
SCALE = 3.00

8

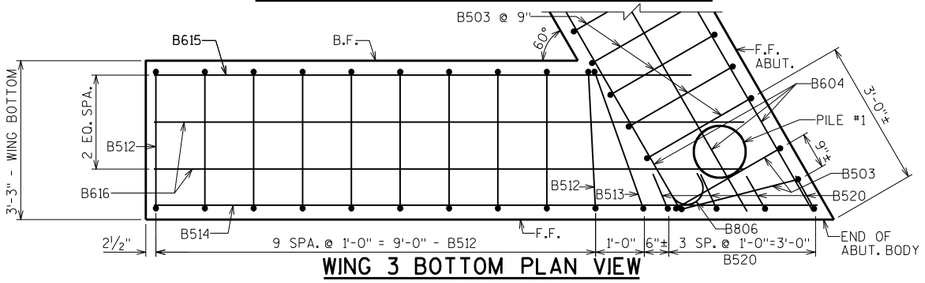
8



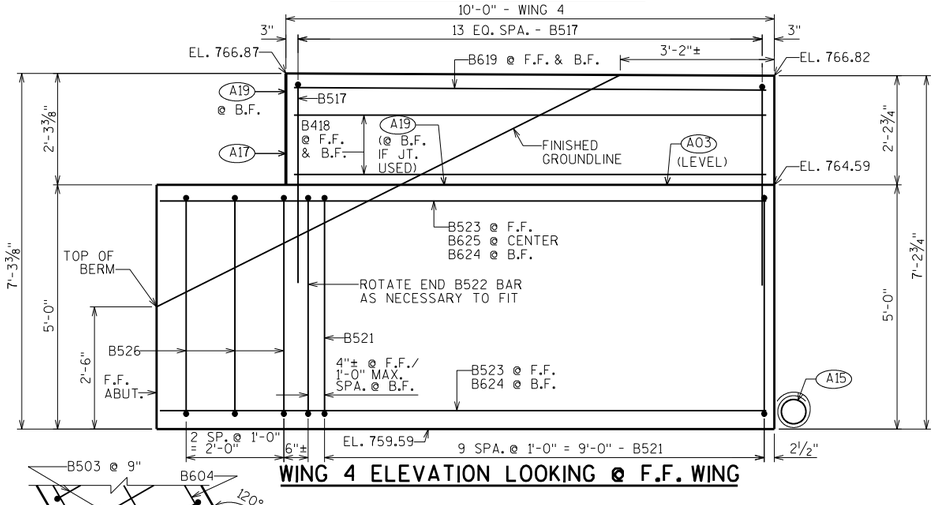
WING 3 ELEVATION LOOKING @ F.F. WING



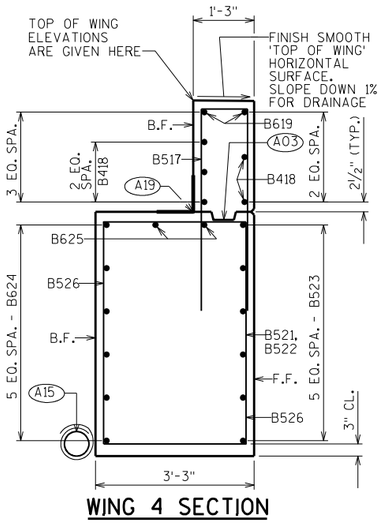
WING 3 SECTION



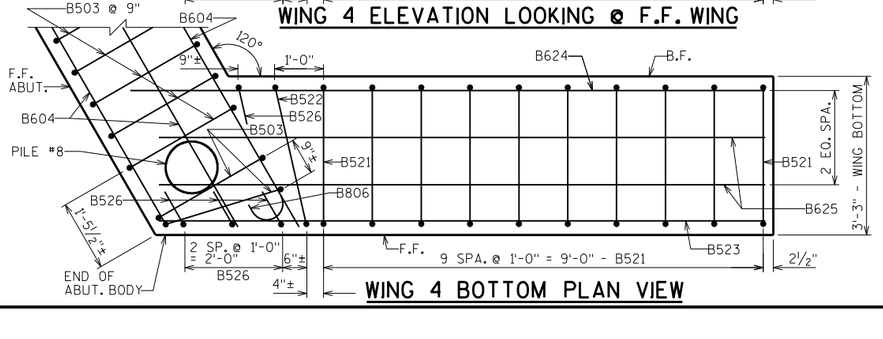
WING 3 BOTTOM PLAN VIEW



WING 4 ELEVATION LOOKING @ F.F. WING



WING 4 SECTION



WING 4 BOTTOM PLAN VIEW

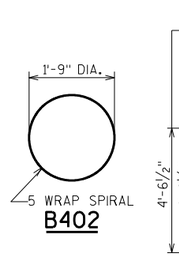
STATE PROJECT NUMBER

1146-75-71

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

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		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.
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'-2"	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.



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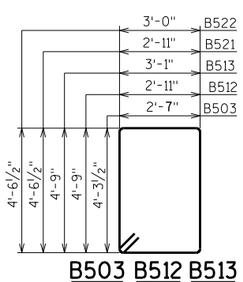
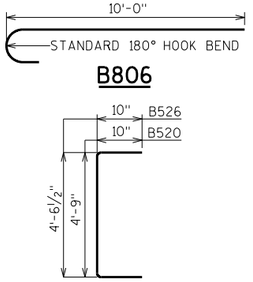


B503 B512 B513
B521 B522



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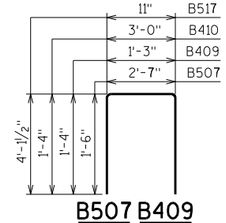
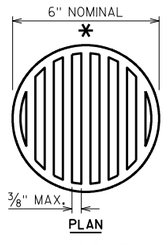
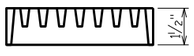
B520 B526



B507 B409
B410 B517



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.

(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

EAST ABUTMENT DETAILS

SHEET 7

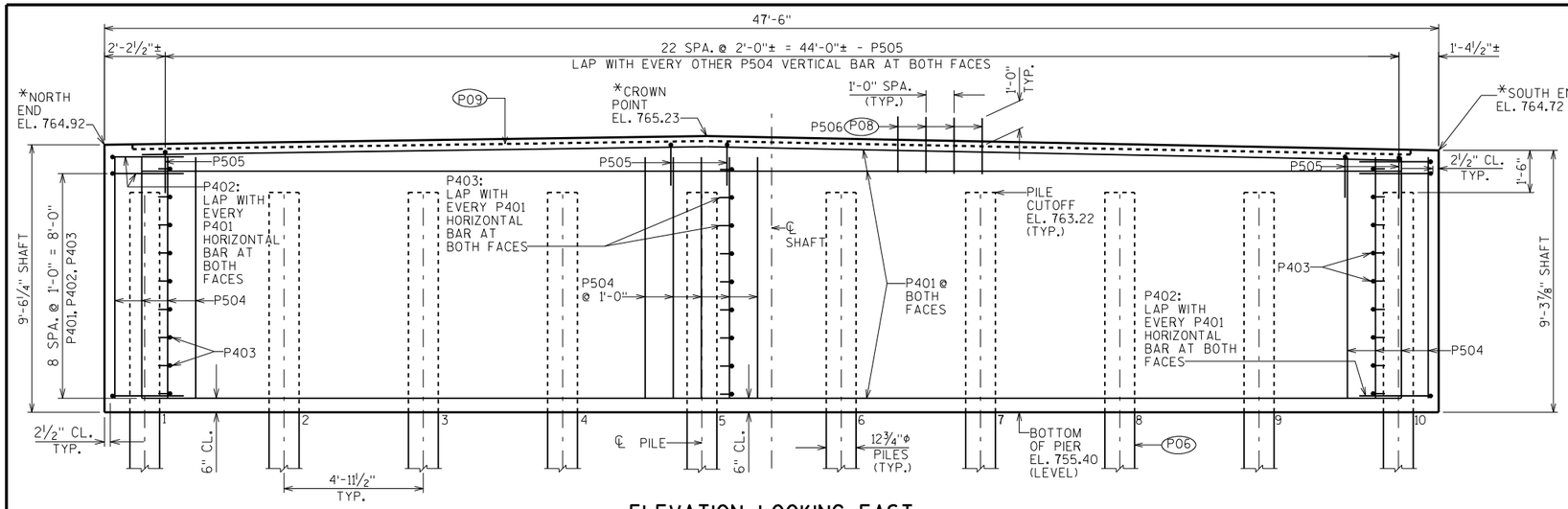
SCALE = 1.50

8

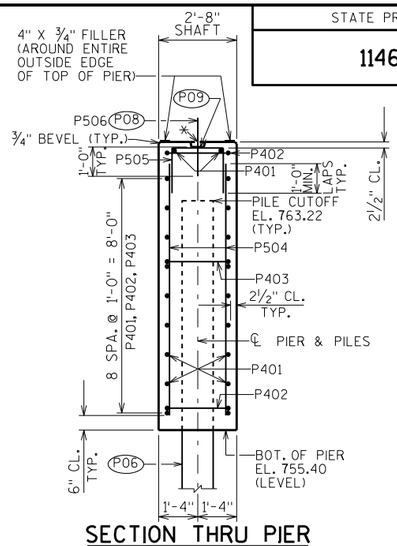
8

STATE PROJECT NUMBER

1146-75-71

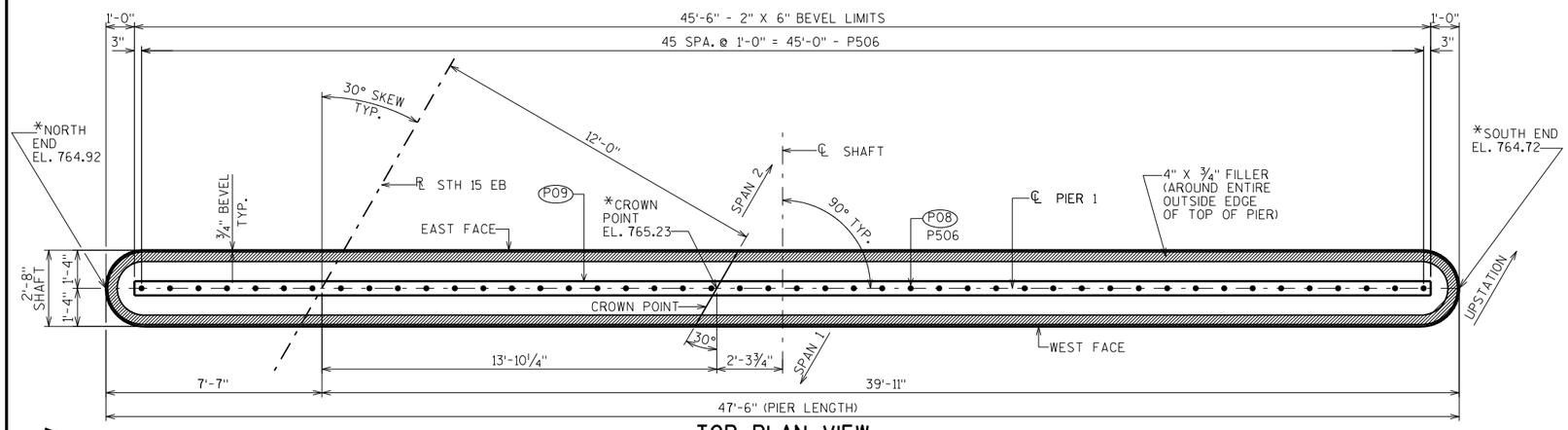


ELEVATION LOOKING EAST

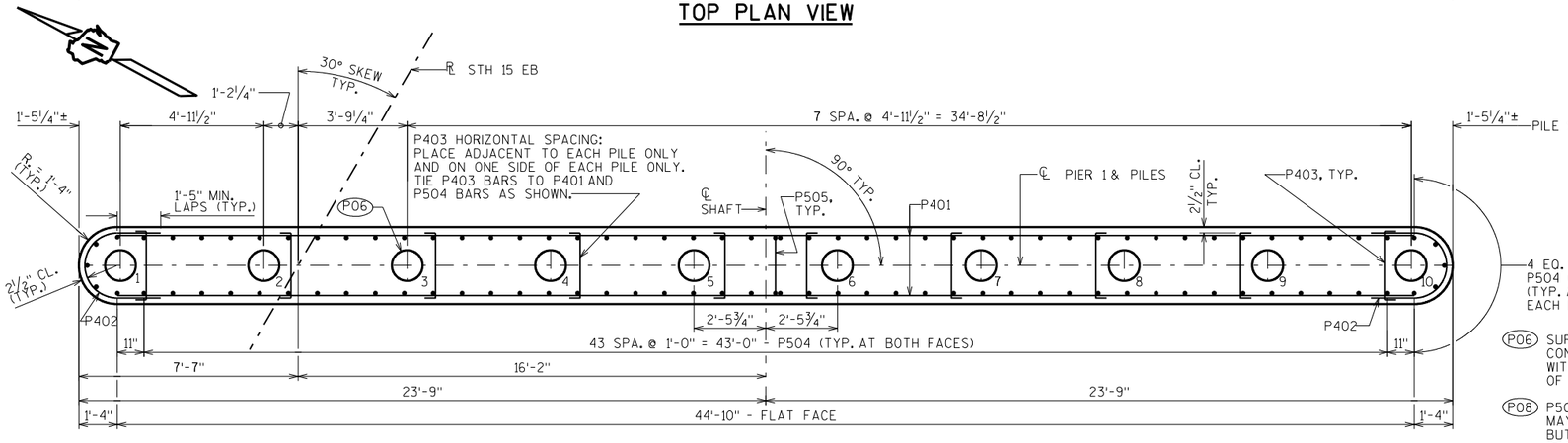


SECTION THRU PIER

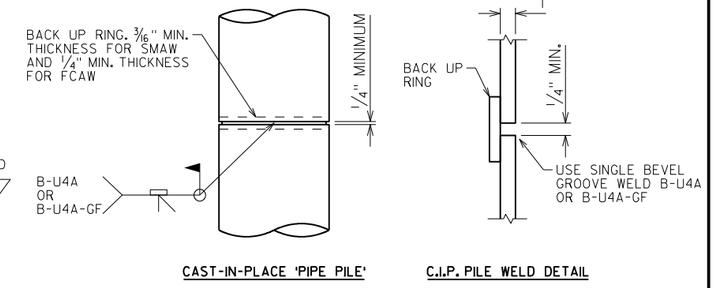
*TOP OF PIER SHAFT ELEVATIONS ARE GIVEN HERE AT THE ℄ PIER 1



TOP PLAN VIEW



PILE & REINFORCEMENT PLAN



CAST-IN-PLACE 'PIPE PILE'

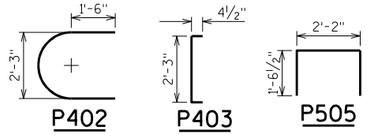
C.I.P. PILE WELD DETAIL

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

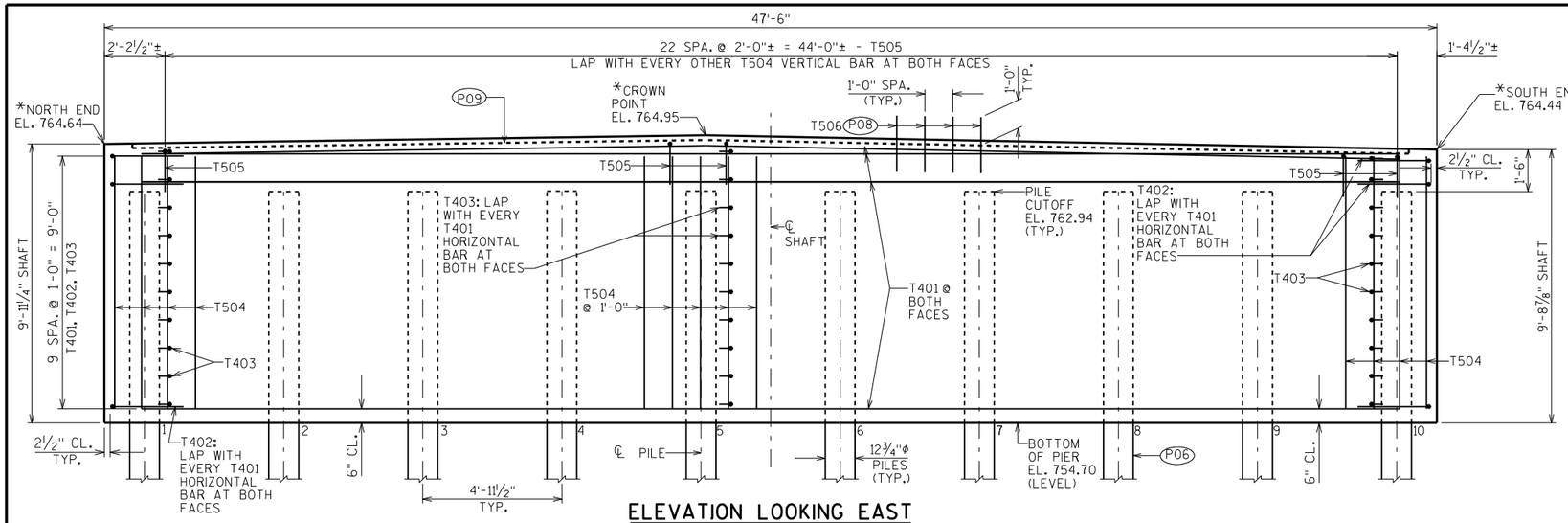
SCALE = 2.50

8

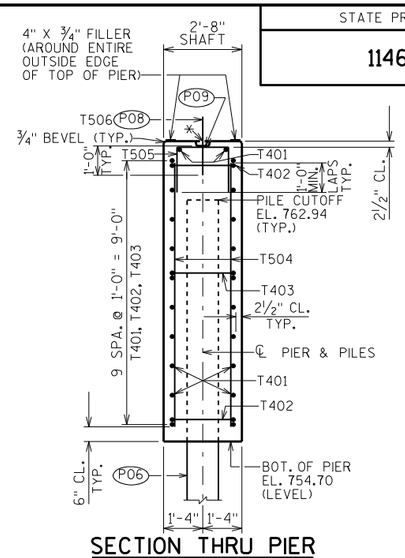
8

STATE PROJECT NUMBER

1146-75-71

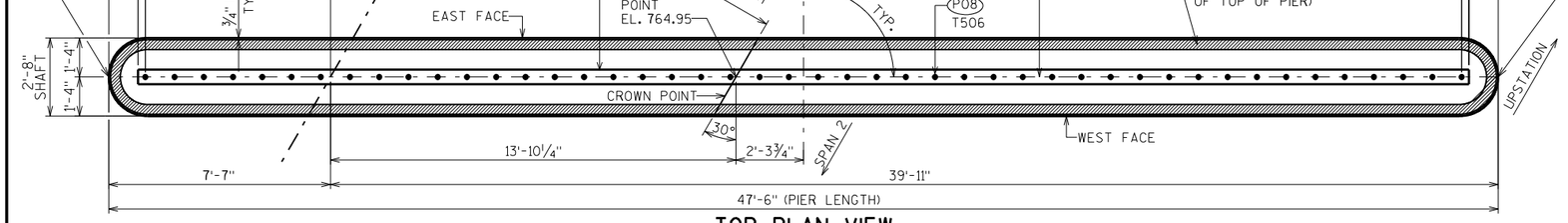


ELEVATION LOOKING EAST

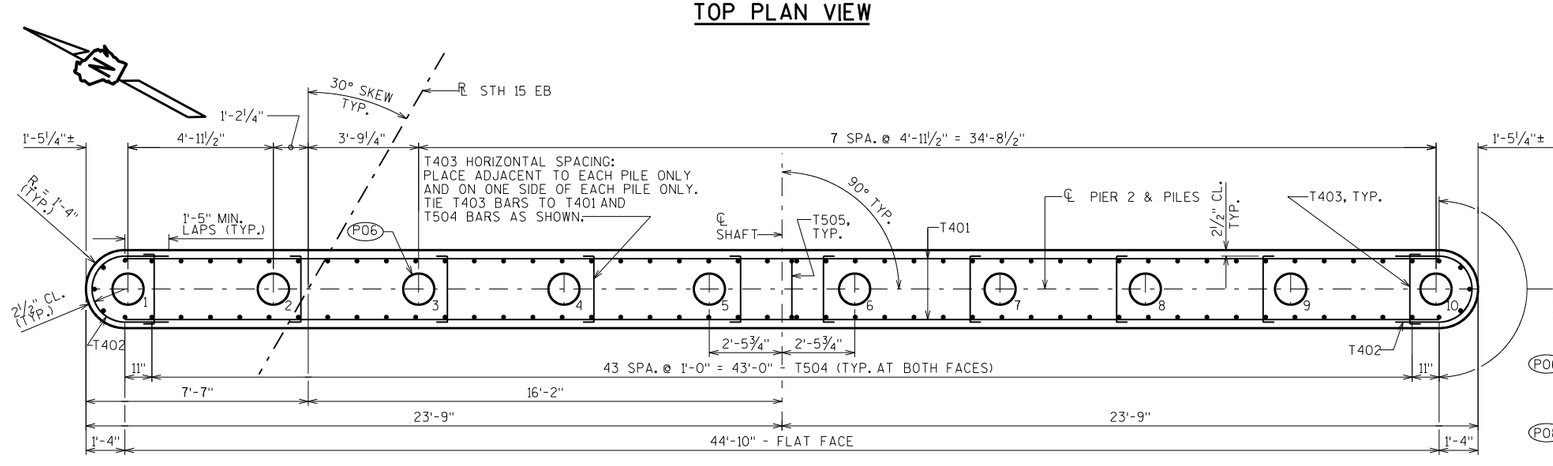


SECTION THRU PIER

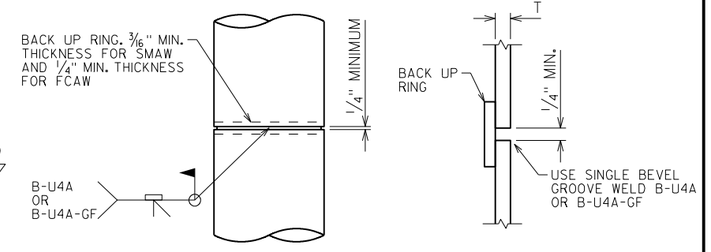
*TOP OF PIER SHAFT ELEVATIONS ARE GIVEN HERE AT THE ℄ PIER 2



TOP PLAN VIEW



PILE & REINFORCEMENT PLAN



CAST-IN-PLACE 'PIPE PILE'

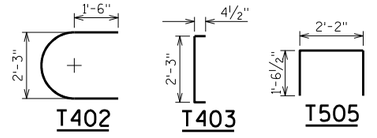
C.I.P. PILE WELD DETAIL

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

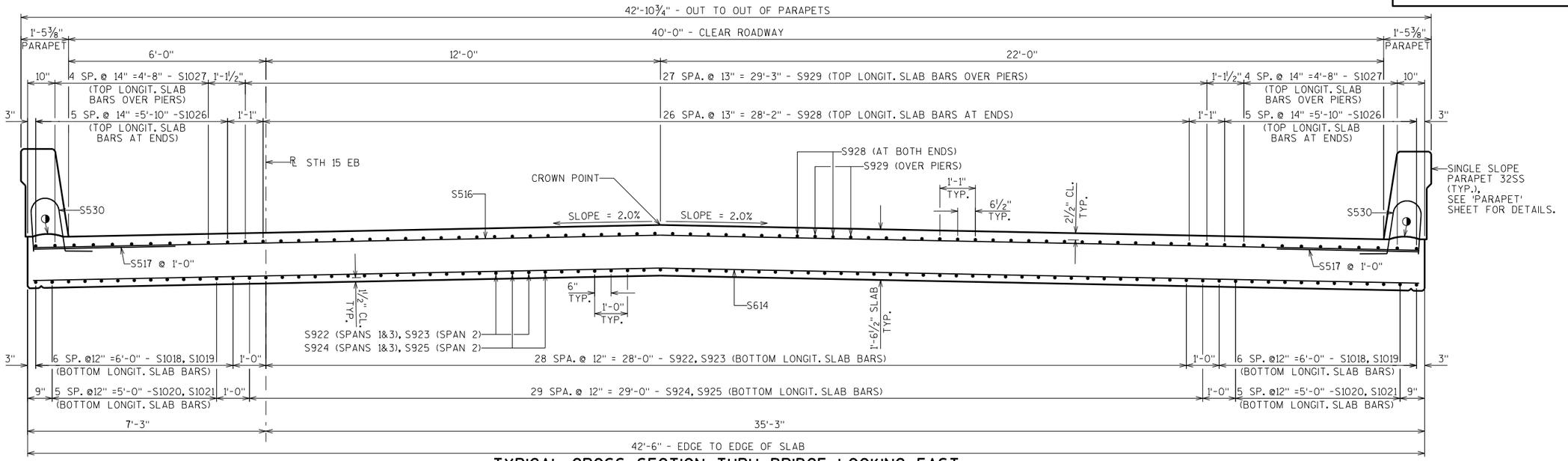
PIER 2

SHEET 9

SCALE = 2.50

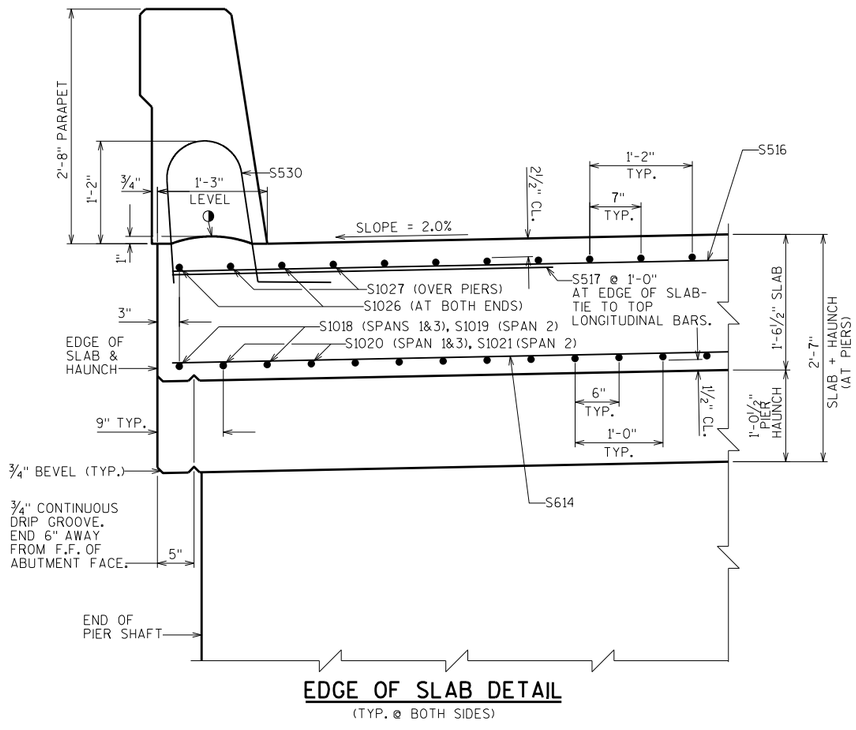
STATE PROJECT NUMBER

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 | PLANS CK'D. MJK

SUPERSTRUCTURE CROSS SECTIONS 1

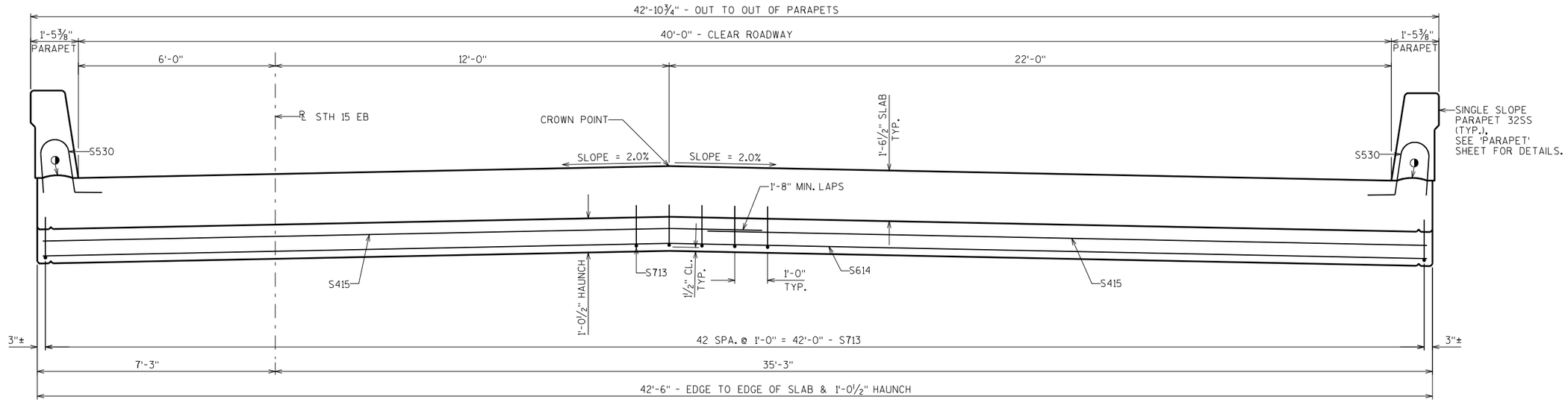
SHEET 10

SCALE = 1.67

8

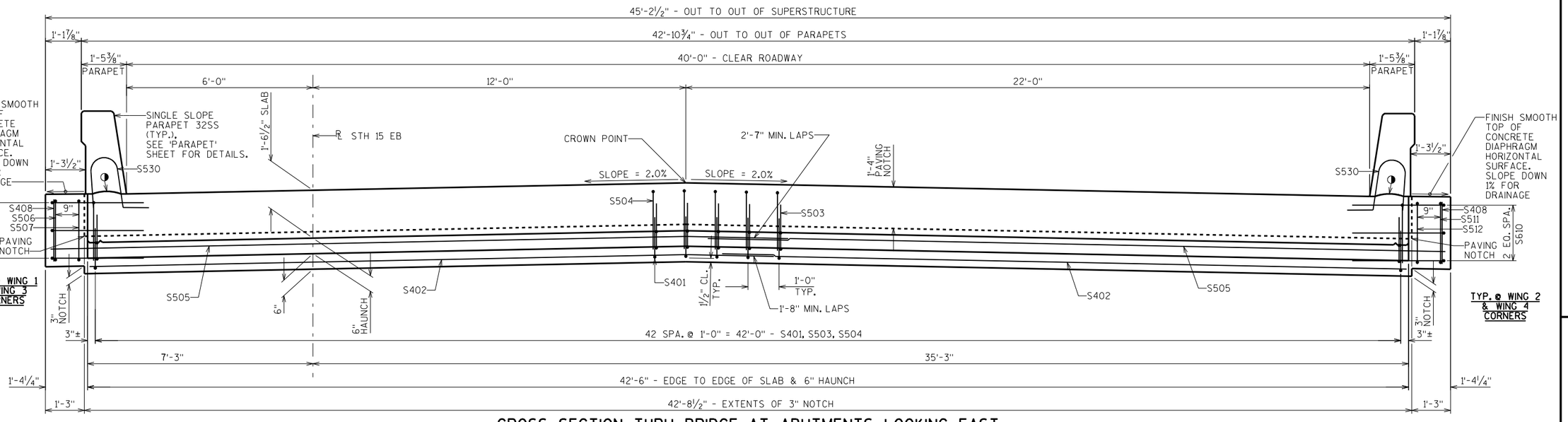
8

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

DRAWN BY JPH | PLANS CK'D. MJK

SUPERSTRUCTURE CROSS SECTIONS 2

SHEET 11

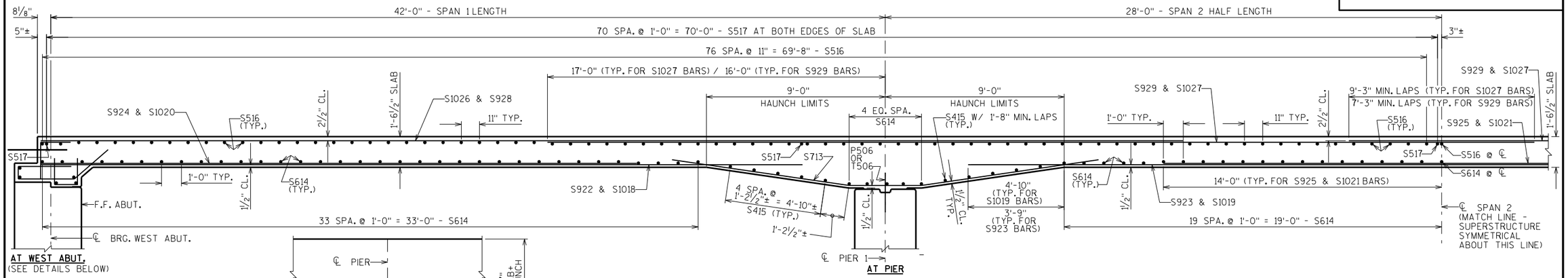
SCALE = 1.67

8

8

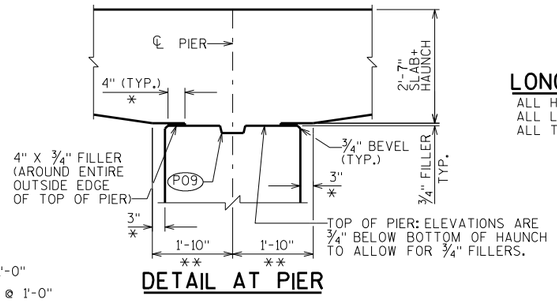
STATE PROJECT NUMBER

1146-75-71



LONGITUDINAL SECTION THRU BRIDGE LOOKING NORTH

ALL HORIZONTAL DIMENSIONS ARE TAKEN PARALLEL TO "℄ STH 15 EB".
ALL LONGITUDINAL BARS ARE PLACED PARALLEL TO "℄ STH 15 EB".
ALL TRANSVERSE BARS ARE PLACED PARALLEL TO ℄ SUBSTRUCTURES.



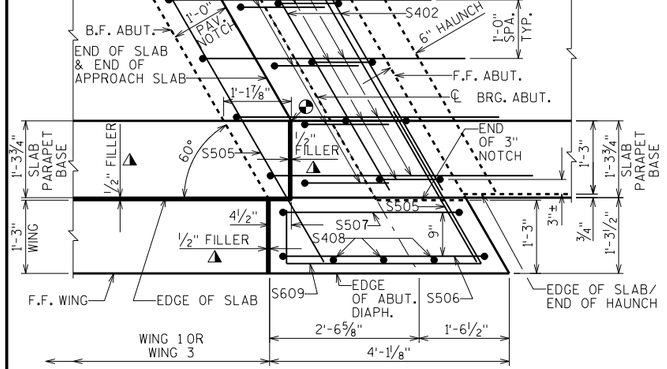
DETAIL AT PIER

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

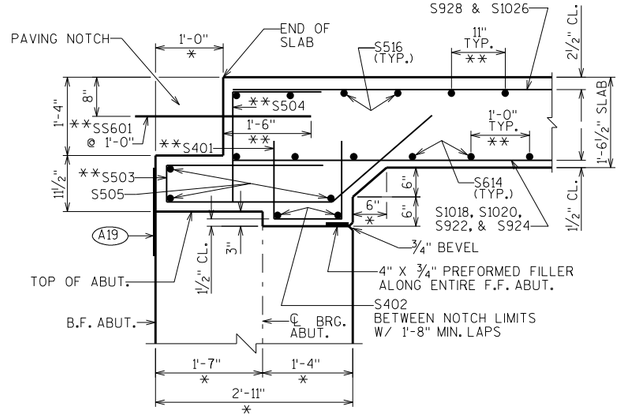
(P09) KEYED CONSTRUCTION JOINT-FORMED BY BEVELED 2" × 6".

*DIMENSION IS TAKEN PERPENDICULAR TO ℄ SUBSTRUCTURES.

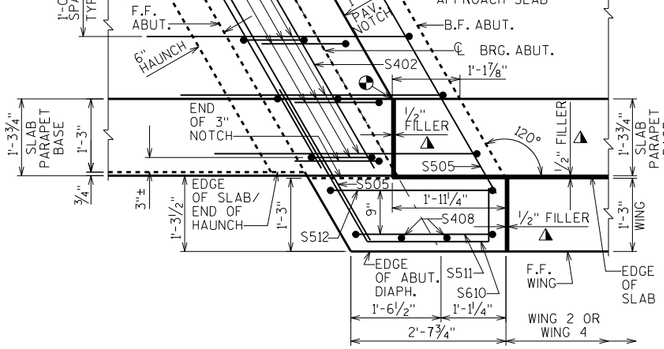
**DIMENSION IS TAKEN PARALLEL TO "℄ STH 15 EB". BARS PLACED PARALLEL TO "℄ STH 15 EB".



TYPICAL CORNER DETAIL AT WINGS 1&3 (PLAN VIEW)



CROSS SECTION THRU ABUTMENT DIAPHRAGMS IN BETWEEN EDGES OF SLAB



TYPICAL CORNER DETAIL AT WINGS 2&4 (PLAN VIEW)

▲ 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

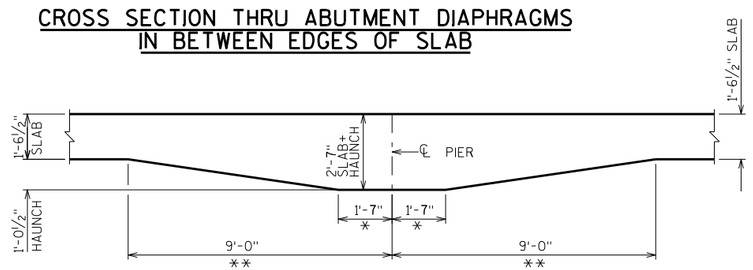
SEE 'BAR DETAILS' SHEET FOR THE 'BILL OF BARS' AND BAR DETAILS.

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 (+).

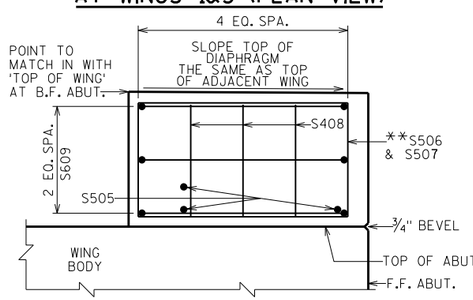
PARAPETS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED, EXCEPT FOR STAGED CONSTRUCTION.

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.

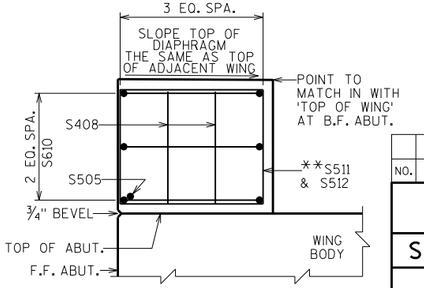


PART LONGITUDINAL SLAB & HAUNCH SECTION AT PIERS LOOKING AT OUTSIDE FACE

(STEEL REINFORCEMENT NOT SHOWN)



TYPICAL CORNER DETAIL AT WINGS 1&3 (ELEVATION VIEW LOOKING AT F.F. WING)



TYPICAL CORNER DETAIL AT WINGS 2&4 (ELEVATION VIEW LOOKING AT F.F. WING)

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

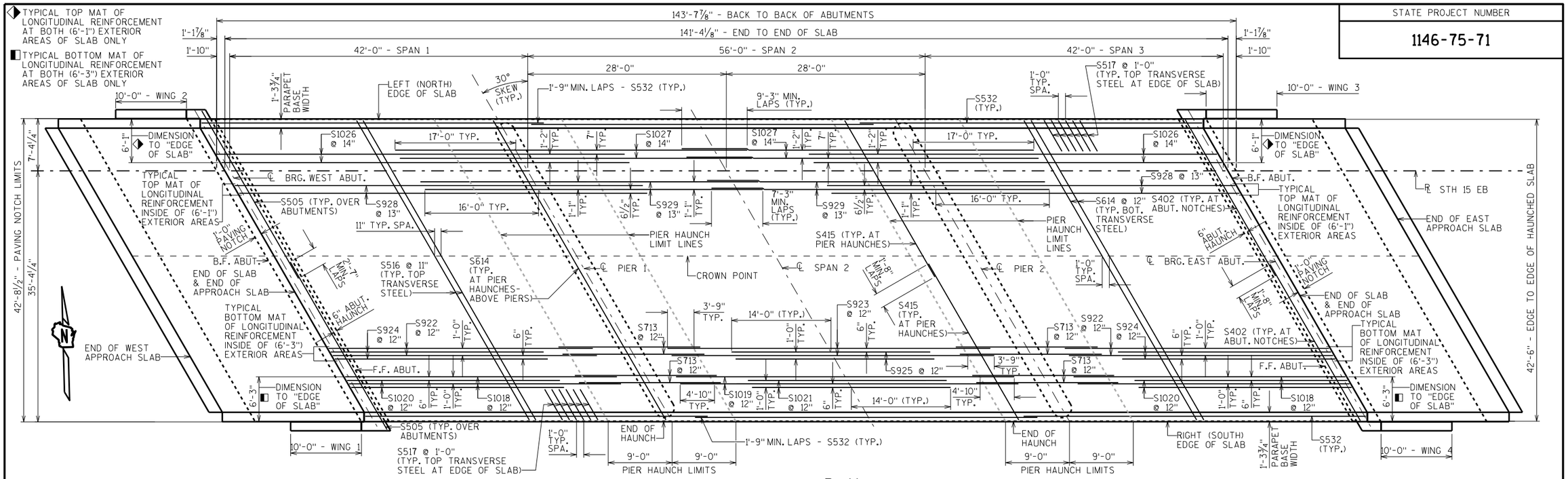
SCALE = 2.50

8

8

STATE PROJECT NUMBER

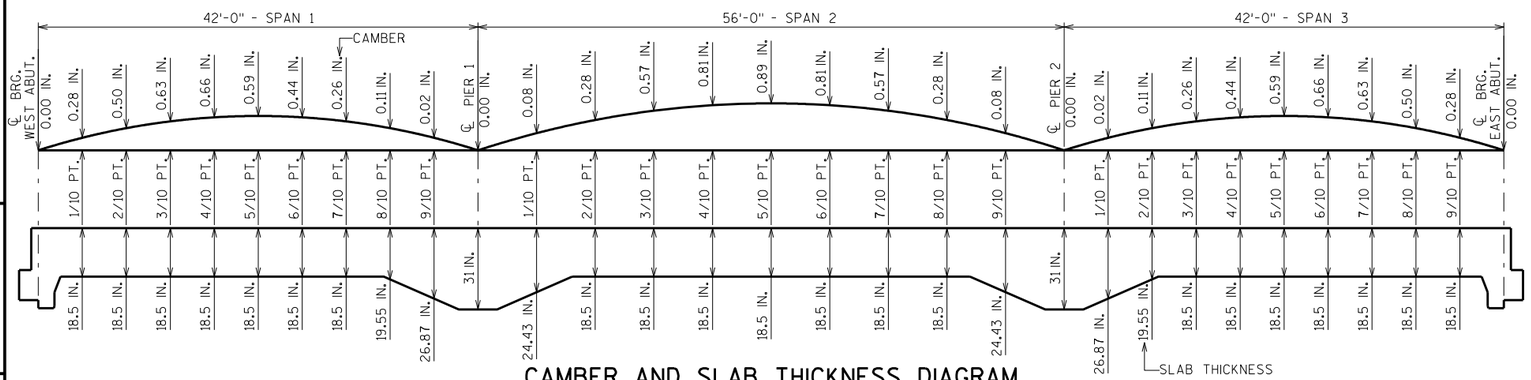
1146-75-71



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	767.78	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 | PLANS CK'D. MJK

SUPERSTRUCTURE PLAN & DATA

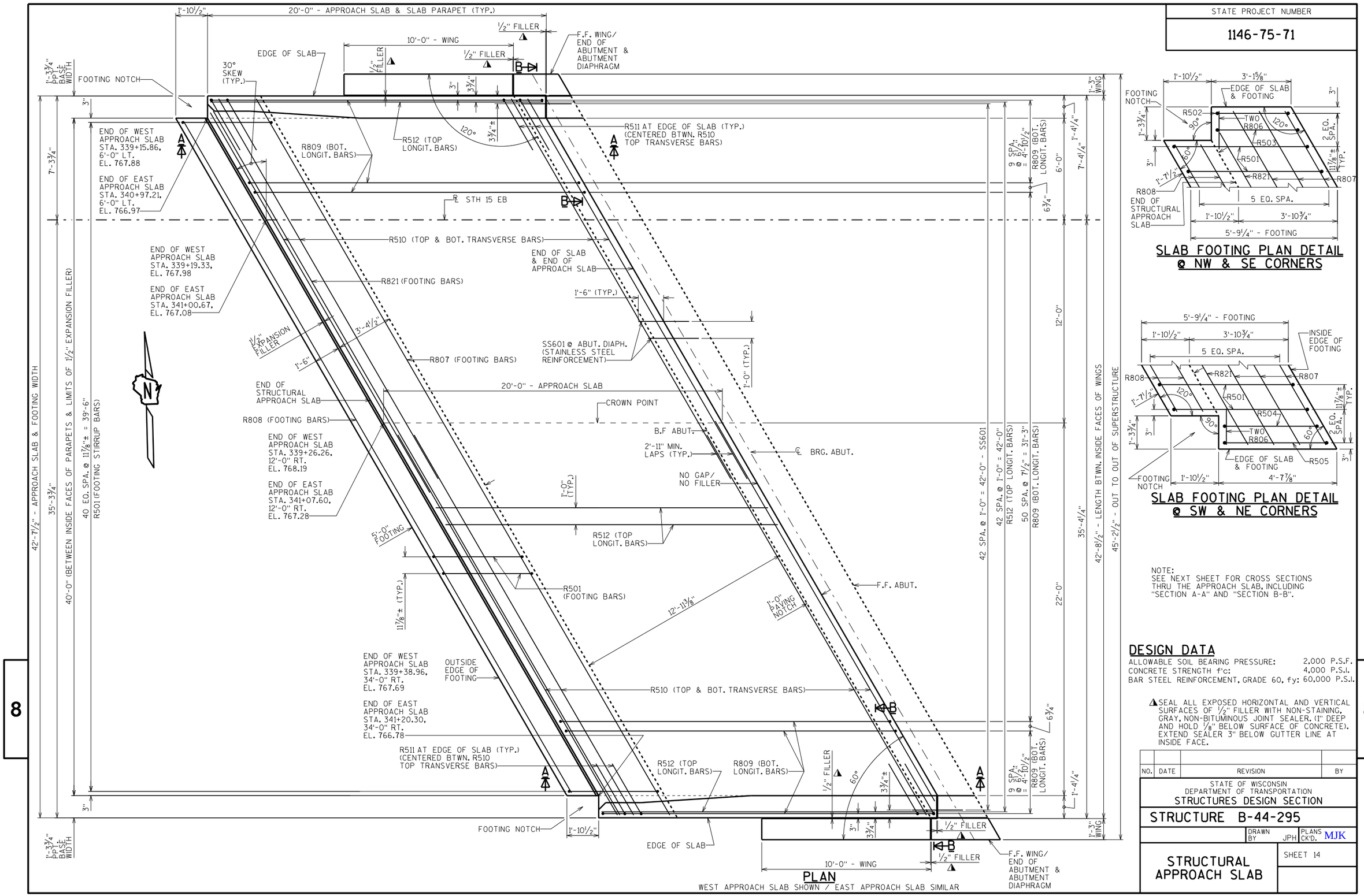
SHEET 13

SCALE = 7.00

8

8

STATE PROJECT NUMBER
1146-75-71



PLAN
WEST APPROACH SLAB SHOWN / EAST APPROACH SLAB SIMILAR

SLAB FOOTING PLAN DETAIL
@ NW & SE CORNERS

SLAB FOOTING PLAN DETAIL
@ SW & NE CORNERS

NOTE:
SEE NEXT SHEET FOR CROSS SECTIONS THRU THE APPROACH SLAB, INCLUDING "SECTION A-A" AND "SECTION B-B".

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.

⚠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

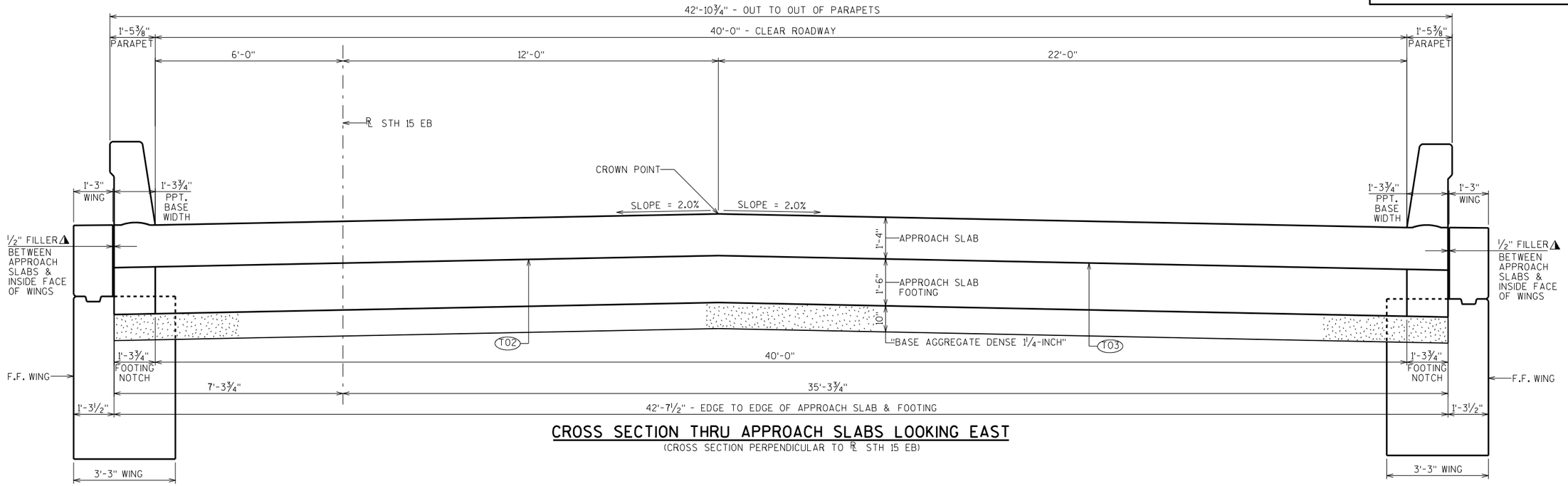
STRUCTURAL APPROACH SLAB

SHEET 14

SCALE = 2.50

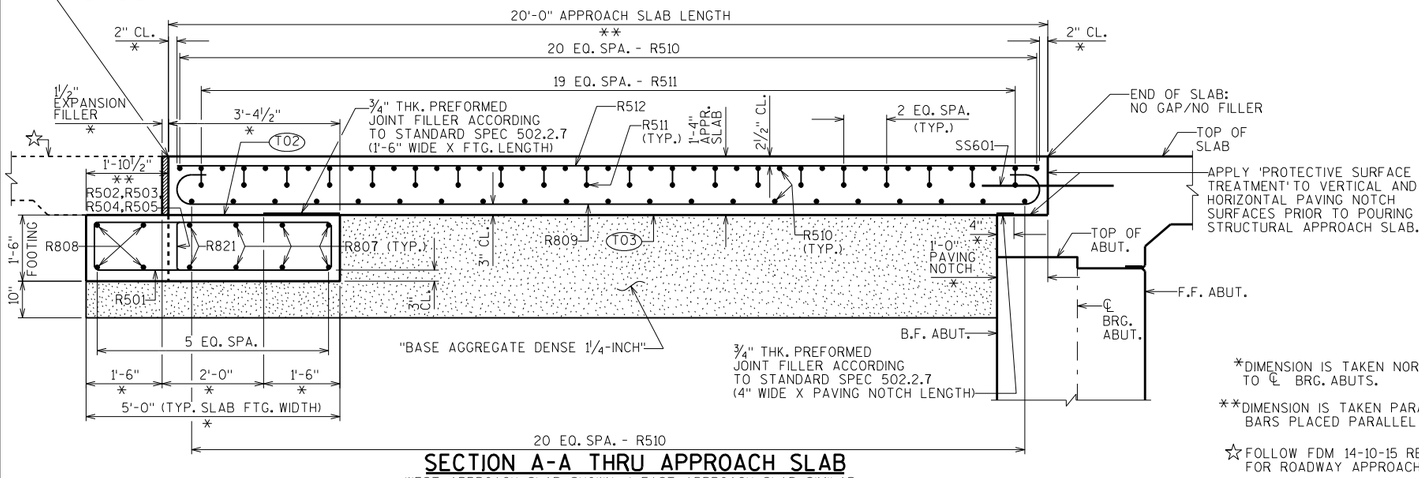
STATE PROJECT NUMBER

1146-75-71



CROSS SECTION THRU APPROACH SLABS LOOKING EAST

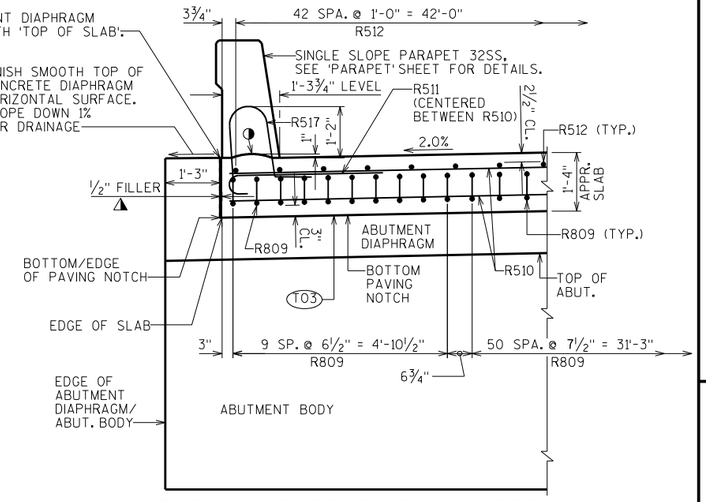
(CROSS SECTION PERPENDICULAR TO ℄ STH 15 EB)



SECTION A-A THRU APPROACH SLAB

WEST APPROACH SLAB SHOWN / EAST APPROACH SLAB SIMILAR

NOTE:
SEE THE 'BAR DETAILS' SHEET FOR THE BILL OF BARS AND BAR DETAILS FOR THE STRUCTURAL APPROACH SLAB R-BARS.



SECTION B-B (EDGE OF SLAB DETAIL)

*DIMENSION IS TAKEN NORMAL TO ℄ BRG. ABUTS.

**DIMENSION IS TAKEN PARALLEL TO ℄ STH 15 EB. BARS PLACED PARALLEL TO ℄ STH 15 EB.

☆FOLLOW FDM 14-10-15 REQUIREMENTS FOR ROADWAY APPROACH PAVEMENT.

◐HORIZ. CONST. JOINT: STRIKE OFF AND LEAVE ROUGH AS SHOWN

⚠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.

(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.

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 DETAILS

SHEET 15

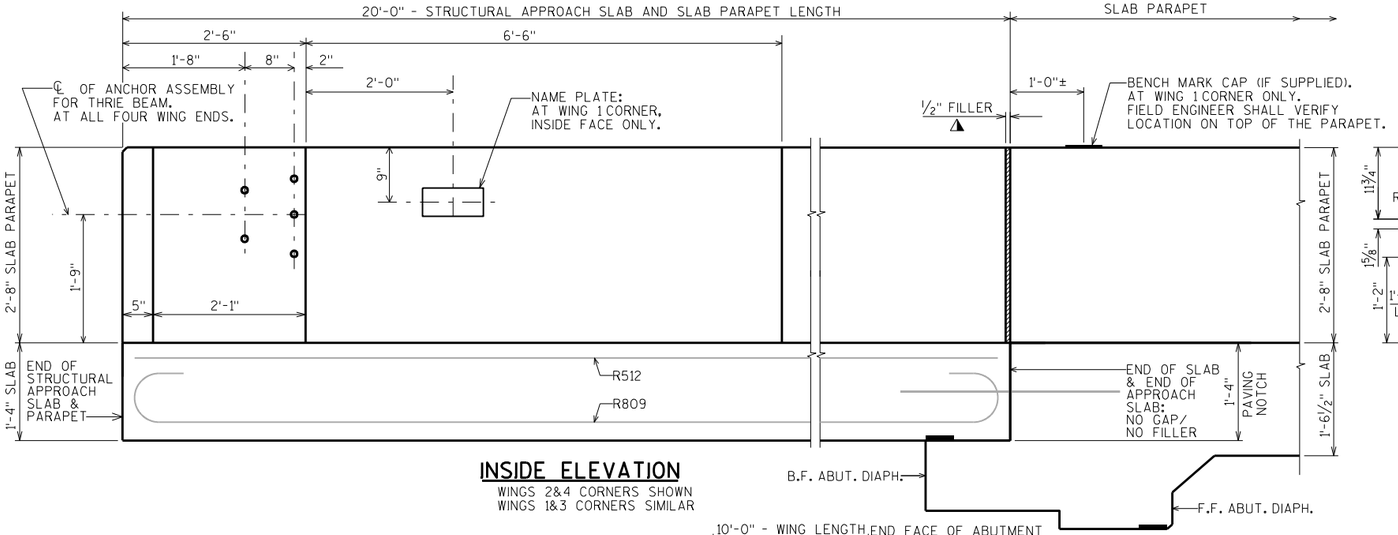
SCALE = 1.67

8

8

STATE PROJECT NUMBER

1146-75-71

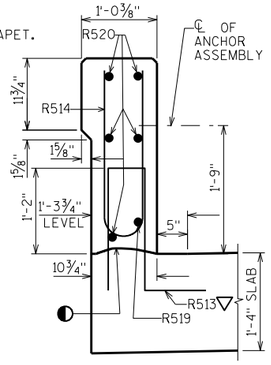


INSIDE ELEVATION

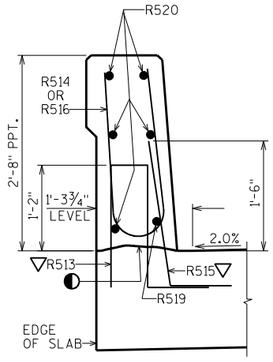
WINGS 2&4 CORNERS SHOWN
WINGS 1&3 CORNERS SIMILAR

NOTES:
SEE THE 'BAR DETAILS' SHEET FOR THE BILL OF BARS AND BAR DETAILS FOR THE APPROACH SLAB PARAPET R-BARS.

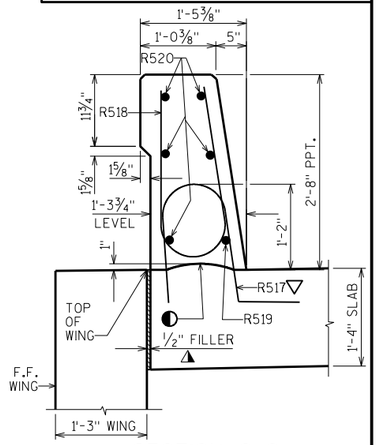
SEE THE 'BAR DETAILS' SHEET FOR THE BILL OF BARS AND BAR DETAILS FOR THE SUPERSTRUCTURE PARAPET S-BARS.



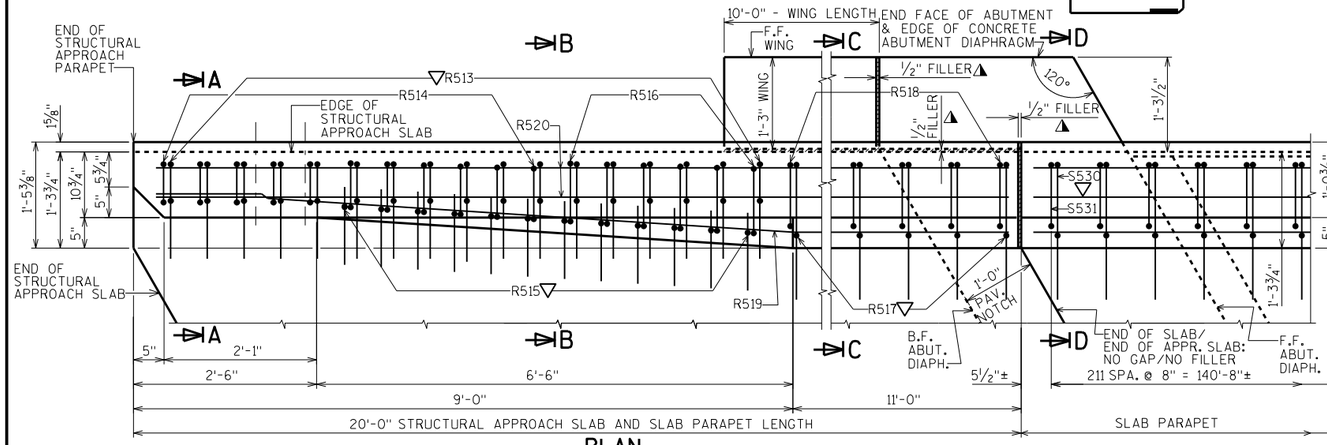
SECTION A-A



SECTION B-B



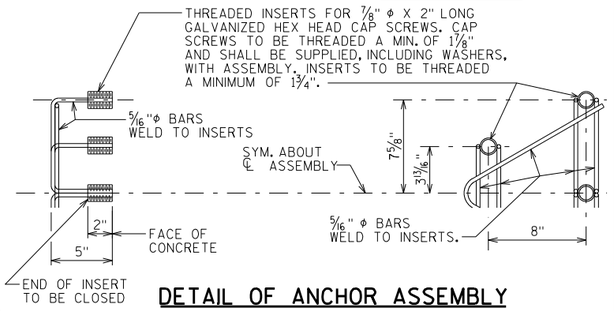
SECTION C-C



PLAN

WINGS 2&4 CORNERS SHOWN
WINGS 1&3 CORNERS SIMILAR

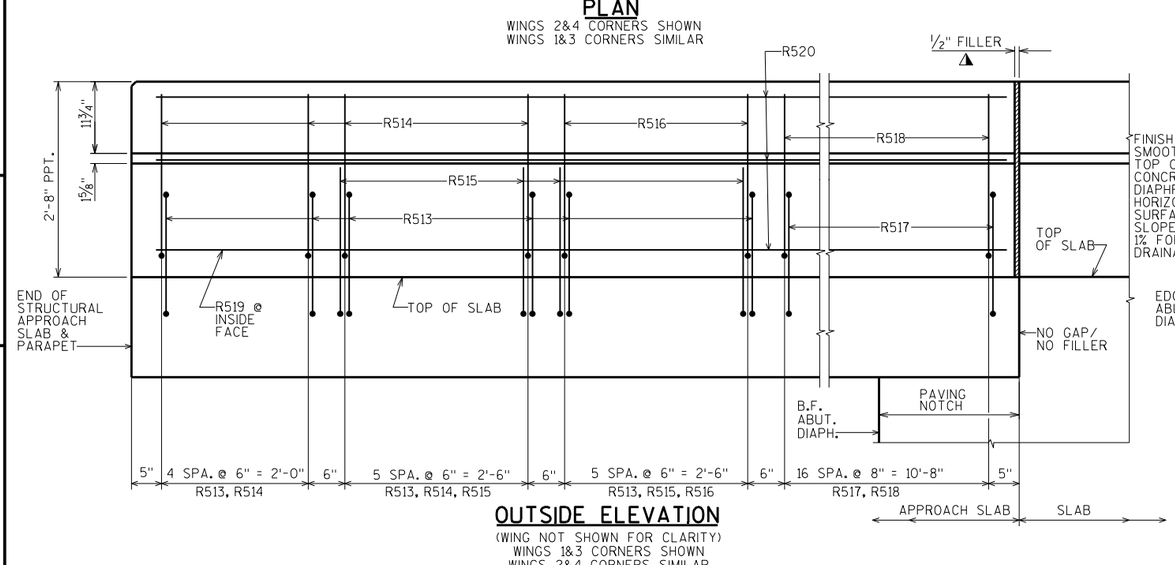
OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF. THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE CONST. JOINT WITH A ¾" - 'V' GROOVE.



DETAIL OF ANCHOR ASSEMBLY

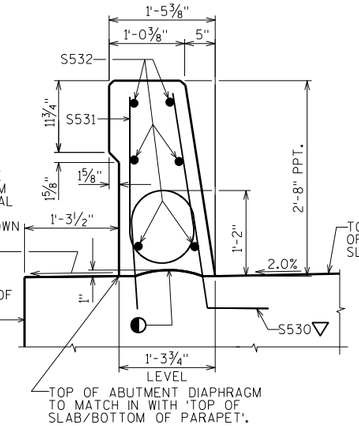
NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

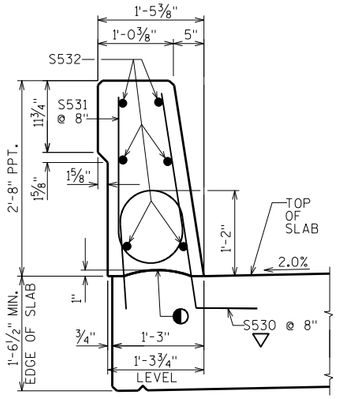


OUTSIDE ELEVATION

(WING NOT SHOWN FOR CLARITY)
WINGS 1&3 CORNERS SHOWN
WINGS 2&4 CORNERS SIMILAR



SECTION D-D (OVER ABUT. DIAPHRAGM)



SECTION E-E (AT SLAB)

▲ 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.

◐ HORIZ. CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.

▽ R513, R515, R517 & S530 PARAPET BARS TO BE TIED TO SLAB OR SLAB STEEL BEFORE SLAB OR SLAB IS POURED. USE CARE TO PLACE R515 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-295

DRAWN BY JPH | PLANS CK'D. MJK

SINGLE SLOPE PARAPET 32SS

SHEET 16

SCALE = 1.00

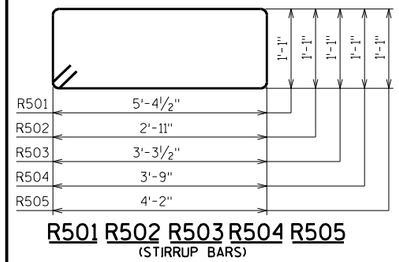
8

8

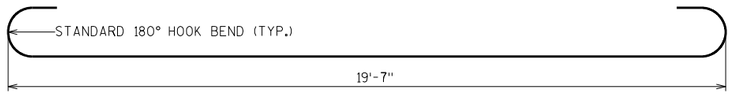
BILL OF BARS FOR STRUCTURAL APPROACH SLABS

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	LOCATION
R501	X	41	41	13'-7"	X	FOOTING-VERTICAL-LONGITUDINAL-STIRRUP BAR-AT CENTER
R502	X	1	1	8'-8"	X	FOOTING-VERTICAL-LONGITUDINAL-STIRRUP BAR-AT WING 2&4 ENDS ONLY
R503	X	1	1	9'-5"	X	FOOTING-VERTICAL-LONGITUDINAL-STIRRUP BAR-AT WING 2&4 ENDS ONLY
R504	X	1	1	10'-4"	X	FOOTING-VERTICAL-LONGITUDINAL-STIRRUP BAR-AT WING 1&3 ENDS ONLY
R505	X	1	1	11'-2"	X	FOOTING-VERTICAL-LONGITUDINAL-STIRRUP BAR-AT WING 1&3 ENDS ONLY
R806	X	4	4	1'-4"		FOOTING-TOP & BOTTOM-HORIZONTAL-TRANSVERSE-AT ENDS ONLY
R807	X	6	6	48'-10"		FOOTING-TOP & BOTTOM-HORIZONTAL-TRANSVERSE-AT INSIDE FACE
R808	X	4	4	45'-9"		FOOTING-TOP & BOTTOM-HORIZONTAL-TRANSVERSE-AT OUTSIDE FACE
R809	X	71	71	21'-5"	X	SLAB-BOTTOM-VERTICAL-LONGITUDINAL
R510	X	84	84	26'-0"		SLAB-TOP & BOTTOM-HORIZONTAL-TRANSVERSE
R511	X	40	40	4'-1"	X	SLAB-TOP-VERTICAL-TRANSVERSE-AT BOTH EDGES
R512	X	43	43	19'-7"		SLAB-TOP-HORIZONTAL-LONGITUDINAL
R513	X	34	34	4'-4"	X	PARAPETS 32SS/SLAB-VERTICAL-TRANSVERSE-AT ALL FOUR PPT. ENDS
R514	X	22	22	4'-9"	X	PARAPET 32SS-END-VERTICAL-TRANSVERSE-AT ALL FOUR PPT. ENDS
R515	X	24	24	2'-9"	X	PARAPETS 32SS/SLAB-INSIDE FACE-VERTICAL-TRANSVERSE-AT ALL FOUR PPT. ENDS
R516	X	12	12	4'-10"	X	PARAPET 32SS-VERTICAL-TRANSVERSE-AT ALL FOUR PPT. ENDS
R517	X	34	34	4'-5"	X	PARAPETS/SLAB-VERTICAL-TRANSVERSE-AT ALL FOUR PPT. ENDS
R518	X	34	34	5'-0"	X	PARAPET 32SS-VERTICAL-TRANSVERSE-AT ALL FOUR PPT. ENDS
R519	X	2	2	19'-5"	X	PARAPET 32SS-BOT.-INSIDE FACE-HORIZONTAL-LONGITUDINAL-AT ALL FOUR PPT. ENDS
R520	X	10	10	19'-5"		PARAPET 32SS-BOTH FACES-HORIZONTAL-LONGITUDINAL-AT ALL FOUR PPT. ENDS
R821	X	2	2	47'-9"		FOOTING-TOP & BOTTOM-HORIZONTAL-TRANSVERSE-AT MIDDLE



R501 R502 R503 R504 R505
(STIRRUP BARS)



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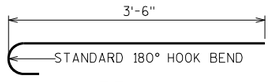

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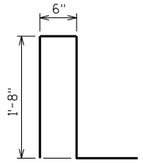

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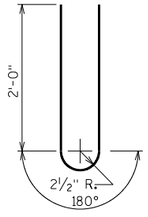

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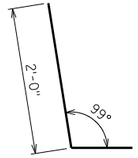

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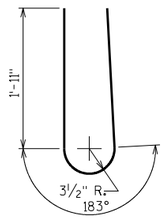

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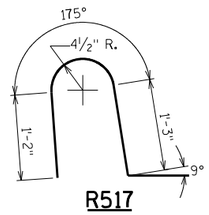

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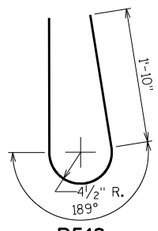

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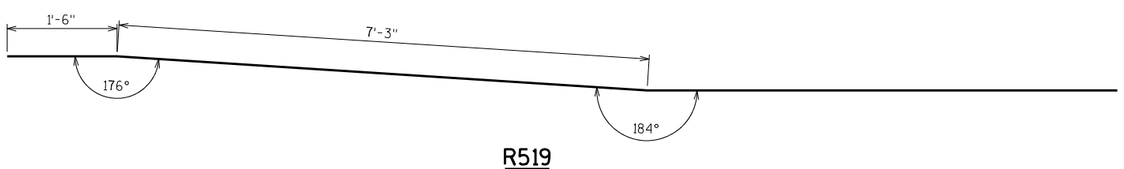


R519

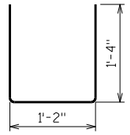
BILL OF BARS FOR SUPERSTRUCTURE

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

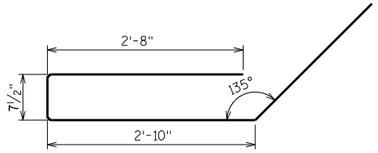
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
S401	X	86	3'-8"	X	ABUT. DIAPHS.-F.F.-BOT.-VERT.-LONGIT.-AT 3" NOTCHES
S402	X	8	25'-4"		ABUT. DIAPHS.-F.F.-BOT.-HORIZ.-TRANS.-AT 3" NOTCHES
S503	X	86	8'-1"	X	ABUT. DIAPHS./SLAB-BOT.-VERT.-LONGIT.-UNDER PAVING NOTCHES
S504	X	86	3'-4"	X	ABUT. DIAPHS./SLAB-VERT.-LONGIT.-ALONG 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	5'-0"	X	PARAPETS-VERTICAL-TRANSVERSE-AT BOTH SIDES
S532	X	36	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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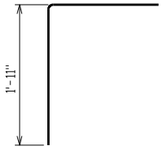

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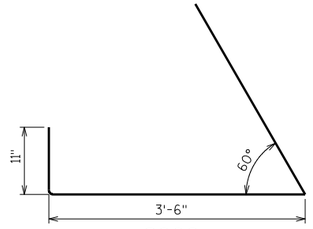

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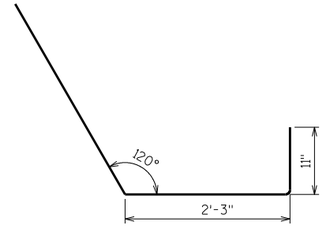
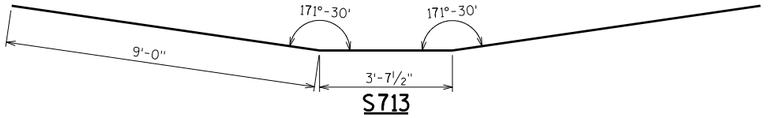
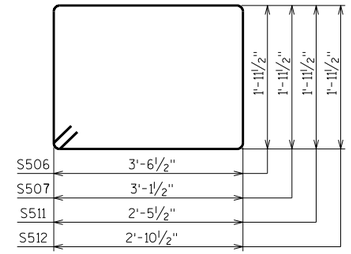


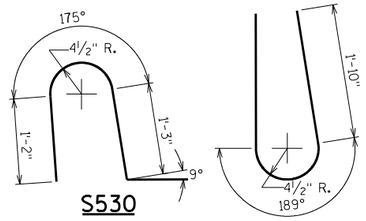
S610



S713



S506 S507 S511 S512
(STIRRUP BARS)



S530 S531

STATE PROJECT NUMBER

1146-75-71

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-295

DRAWN BY JPH | PLANS CK'D. MJK

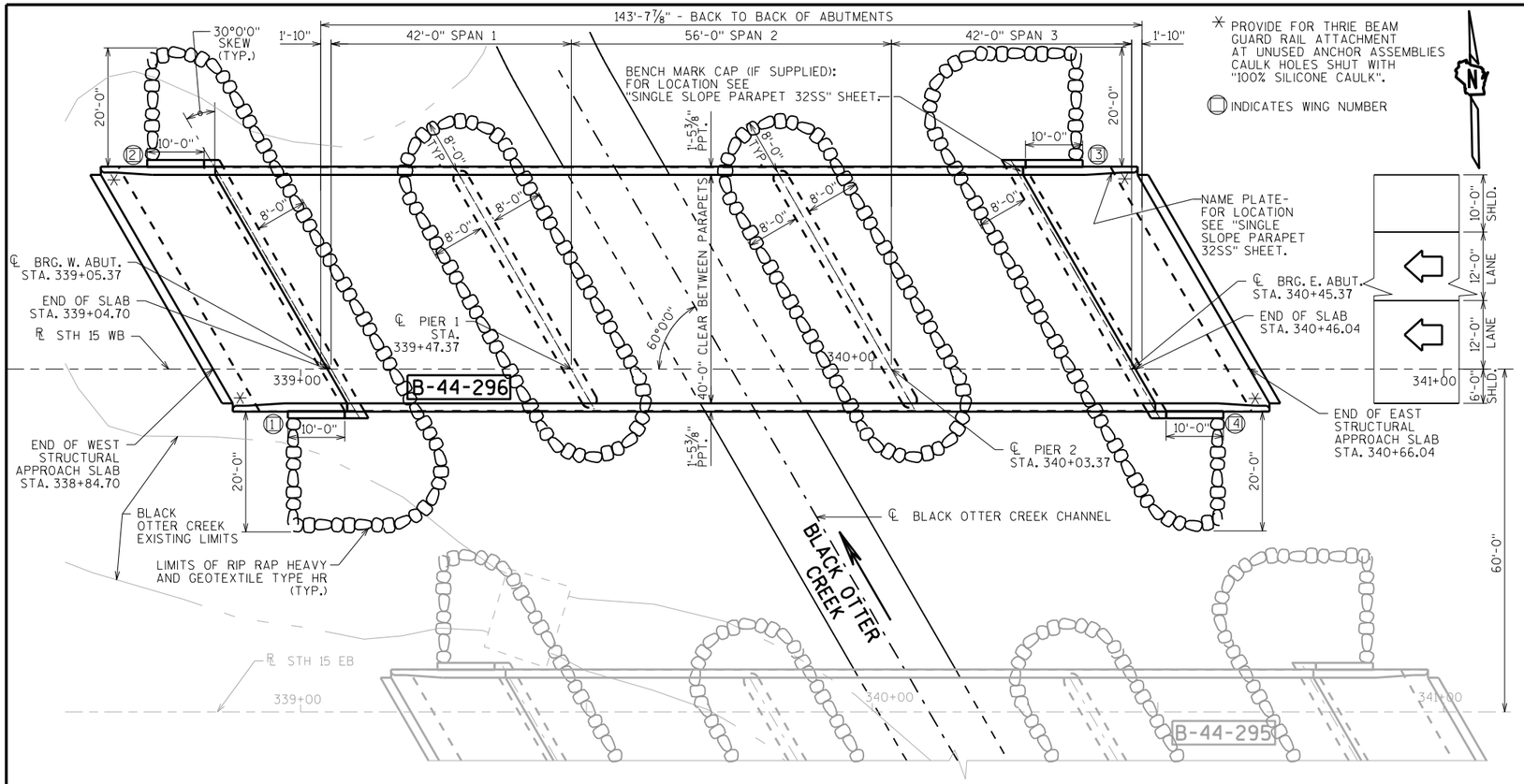
SUPERSTRUCTURE & APPROACH SLAB BAR DETAILS

SHEET 17

SCALE = 1.00

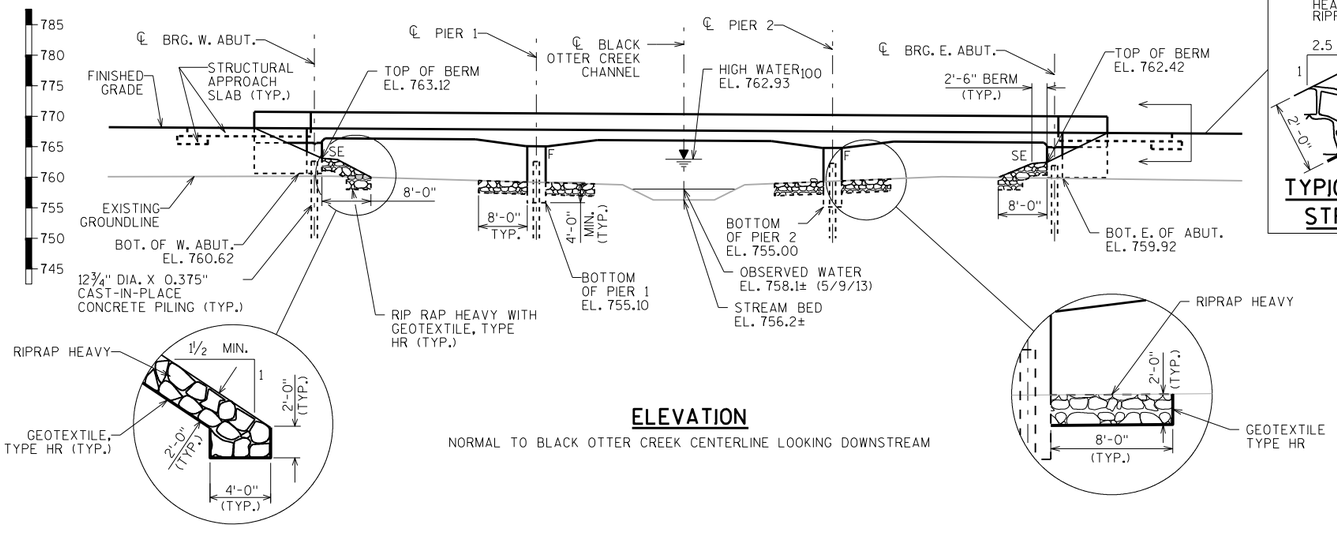
8

8



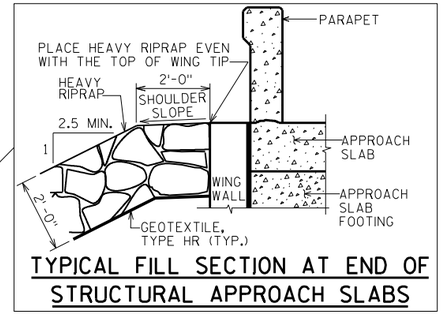
PLAN

3 SPAN - HAUNCHED CONCRETE SLAB



ELEVATION

NORMAL TO BLACK OTTER CREEK CENTERLINE LOOKING DOWNSTREAM



TYPICAL FILL SECTION AT END OF STRUCTURAL APPROACH SLABS

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.13
OPERATING RATING FACTOR: RF = 1.47
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 32SS
17. SUPERSTRUCTURE & APPROACH SLAB BAR DETAILS

STATE PROJECT NUMBER

1146-75-71

STRUCTURE DESIGN CONTACTS:
MAX KULICK: (608) 261-6108
AARON BONK: (608) 261-0261

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ _____
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	

GENERAL PLAN

SHEET 1 OF 17

I.D. 1146-75-00L

DATE: FEB. 2017

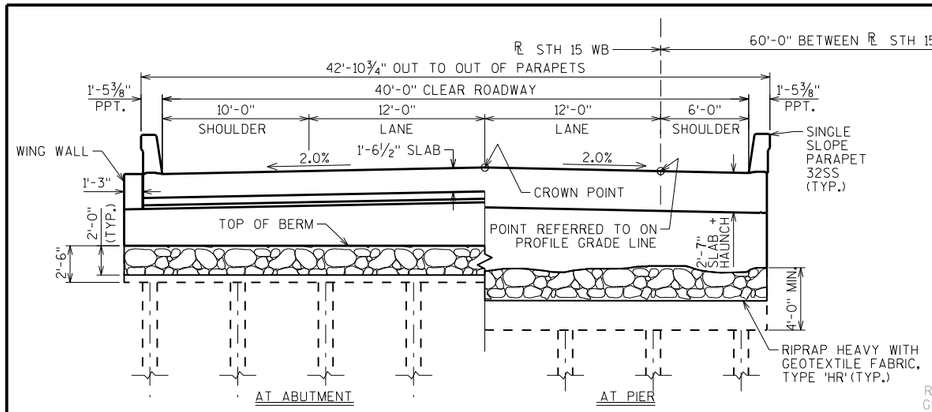
SCALE = 12.00

8

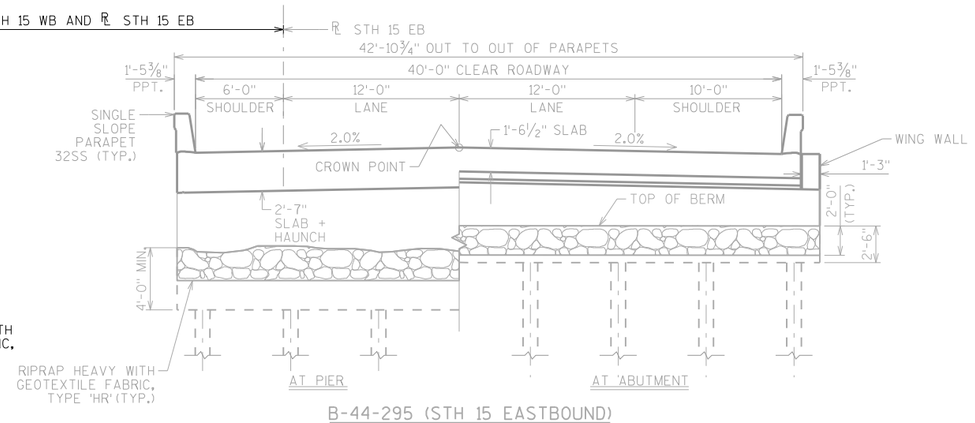
8

STATE PROJECT NUMBER

1146-75-71

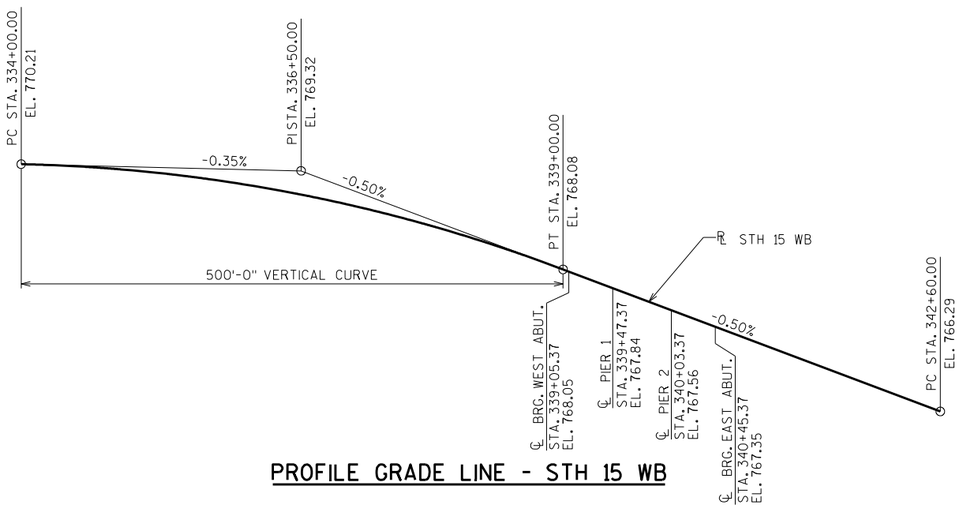


B-44-296 (STH 15 WESTBOUND)

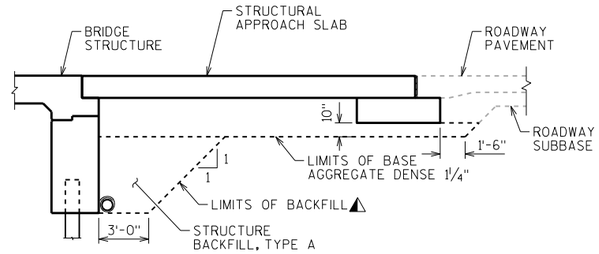


B-44-295 (STH 15 EASTBOUND)

CROSS SECTION THRU ROADWAY LOOKING EAST (UPSTATION)



PROFILE GRADE LINE - STH 15 WB



TYPICAL SECTION THRU ABUTMENT

(A1 ABUTMENT WITH STRUCTURAL APPROACH)

⚠ 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.	PIER 1	PIER 2	EAST ABUT.	EAST APPROACH	TOTALS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-44-296	LS	——	——	——	——	——	——	——	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	——	——	75	——	——	75	——	150
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	——	131	——	——	——	——	131	262
502.0100	CONCRETE MASONRY BRIDGES	CY	423	60					60	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	655	90	——	——	——	——	90	835
502.3210	PIGMENTED SURFACE SEALER	SY	117	17	——	——	——	——	17	151
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	——	——					——	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	92,980	10,520		——	——		10,520	
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
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	4	——	——	——	——	——	——	4
645.0120	GEOTEXTILE TYPE HR	SY	——	——	192	143	143	192	——	670
	NON-BID ITEMS									
	FILLER	SIZE	——	——	——	——	——	——	——	½", ¾", 1½"

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. 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.

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 & APPROACH 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, INCLUDING PARAPETS ON STRUCTURAL APPROACH SLABS.

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.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-296

DRAWN BY JPH | PLANS CK'D.

CROSS SECTION & QUANTITIES

SHEET 2

8

8

SCALE = 5.00

BORING#	DATE COMPLETED	NORTHING (Y)	EASTING (X)
328	3/21/2014	593193	764144
330	2/20/2014	593190	764243

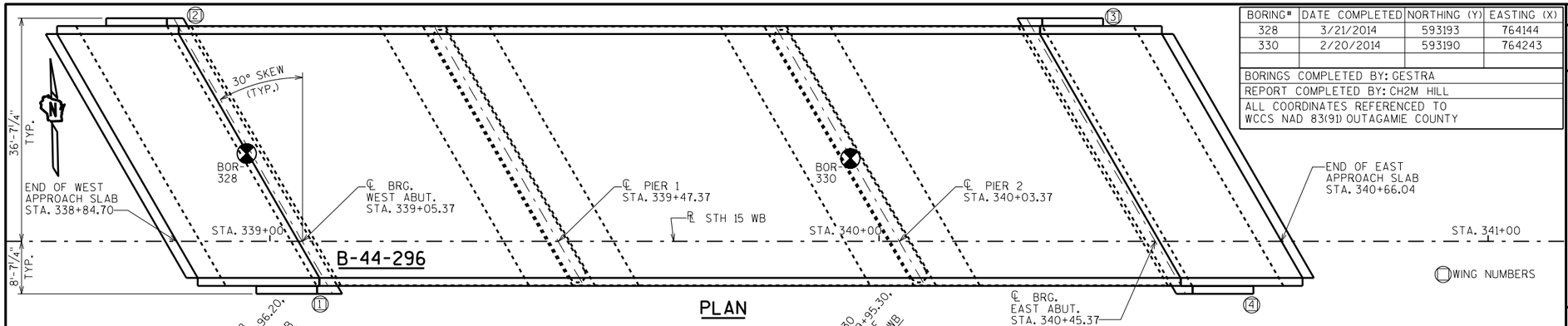
BORINGS COMPLETED BY: GESTRA
REPORT COMPLETED BY: CH2M HILL
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) OUTAGAMIE COUNTY

STATE PROJECT NUMBER

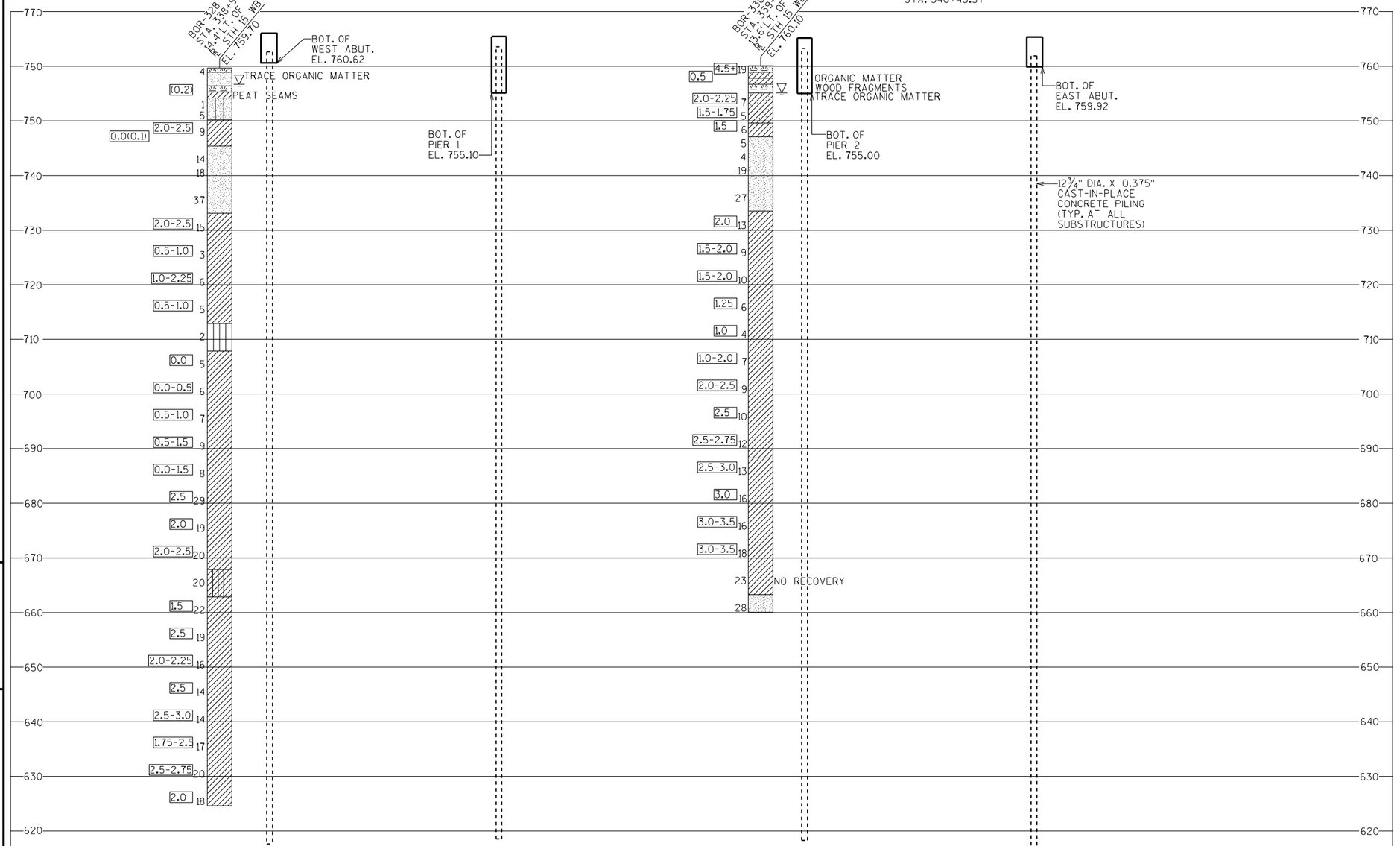
1146-75-71

MATERIAL SYMBOLS

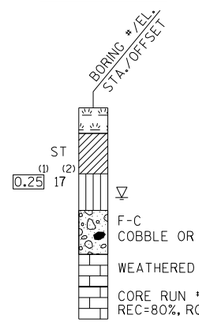
ASPHALT, TOPSOIL, PEAT, CONCRETE, FILL, GRAVEL, SAND, CLAY, SILT, BOULDERS OR COBBLES, LIMESTONE, BEDROCK (UNKNOWN), SHALE, SANDSTONE, IGNEOUS/META



PLAN



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.

SUBSURFACE EXPLORATION

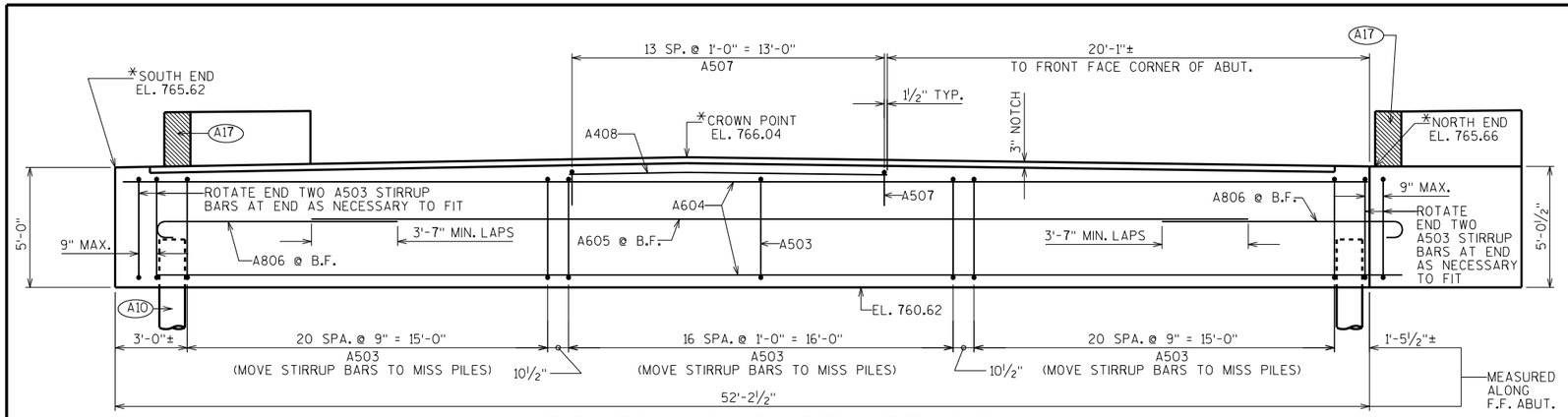
SHEET 3

SCALE = 10.00

8

8

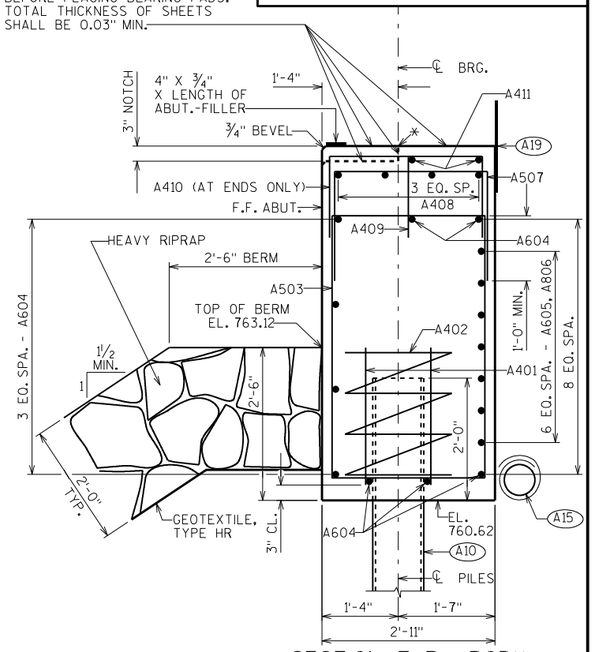
STATE PROJECT NUMBER
1146-75-71



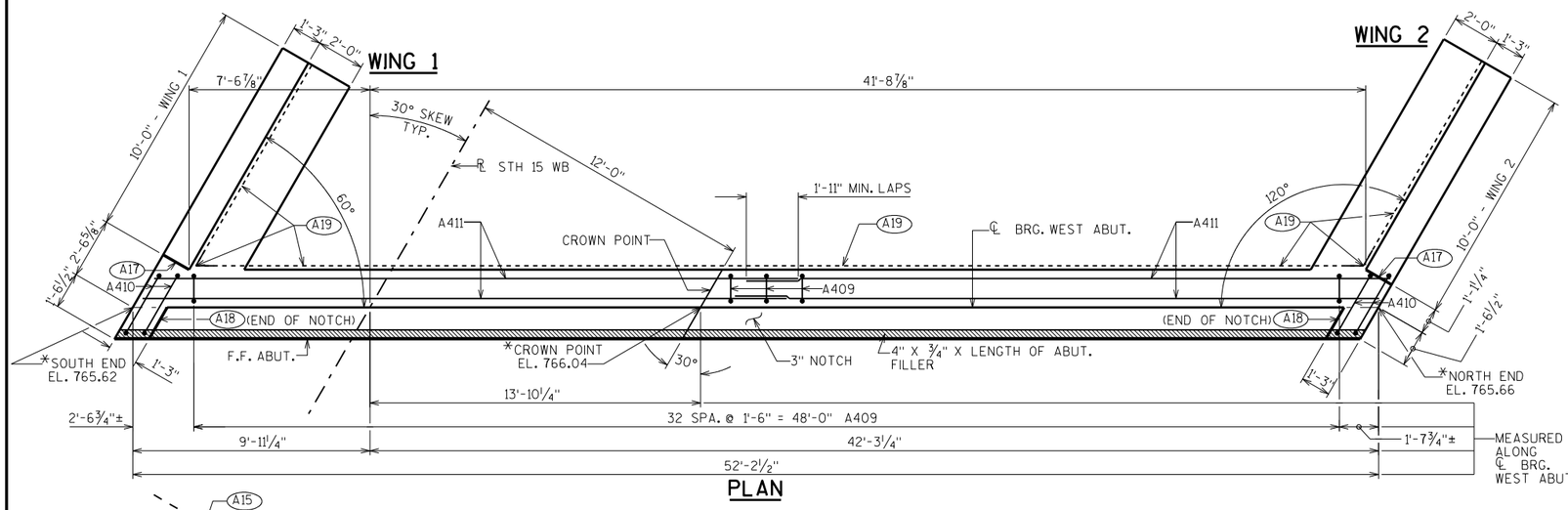
ELEVATION LOOKING WEST @ F.F. ABUT.

*TOP OF ABUT. ELEVATIONS ARE GIVEN HERE AT ℄ BRG. WEST ABUT.

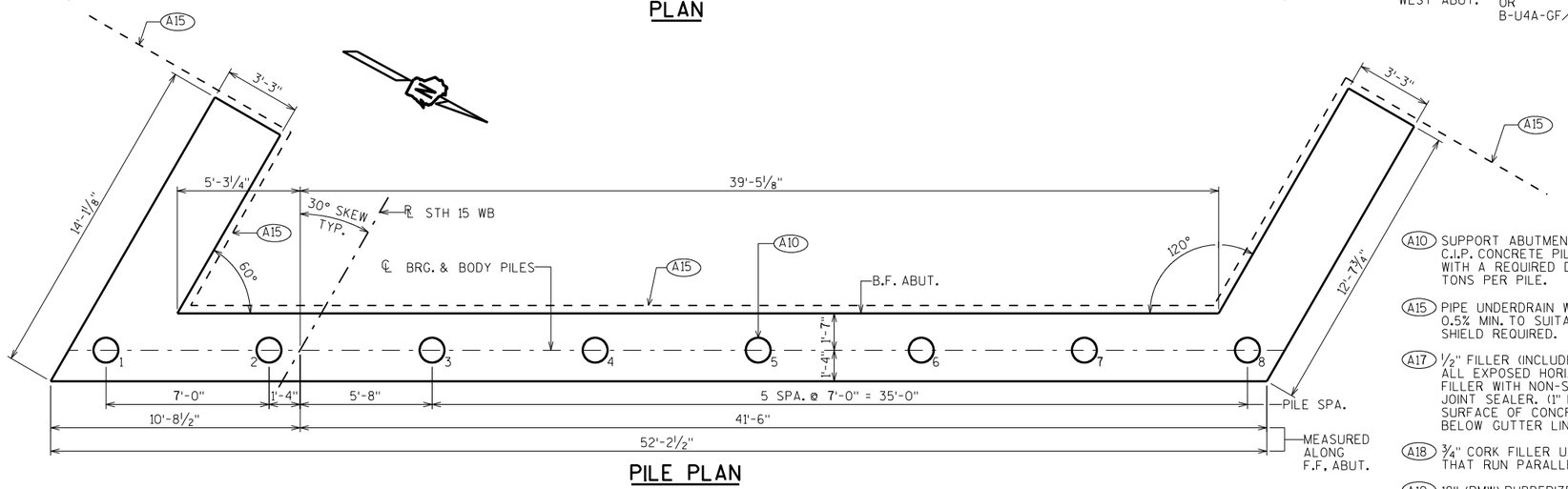
STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING PADS. TOTAL THICKNESS OF SHEETS SHALL BE 0.03" MIN.



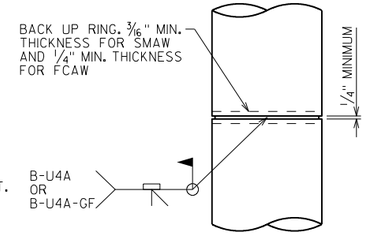
SECTION THRU BODY



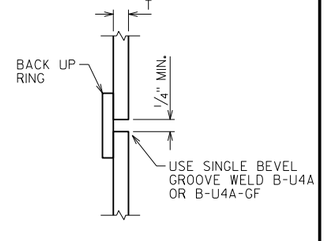
PLAN



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" BELOW 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.

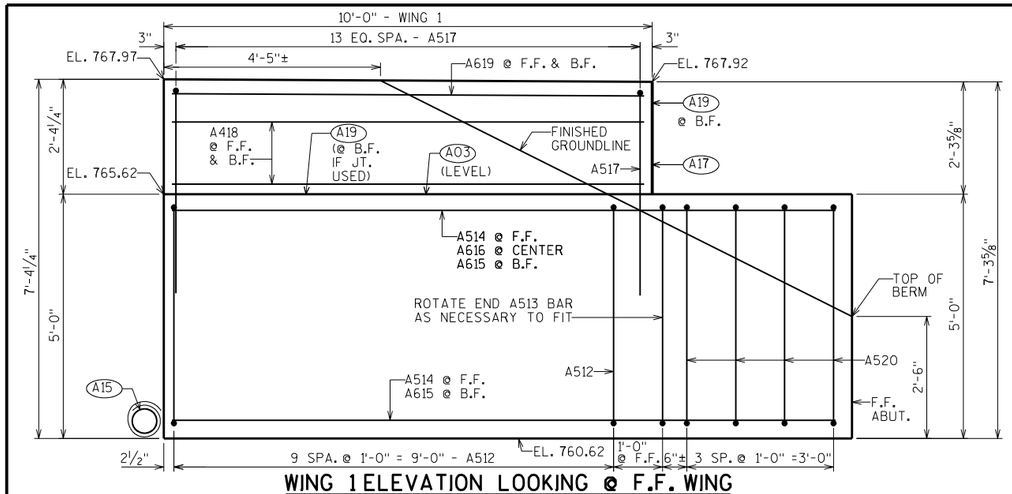
WEST ABUTMENT

SHEET 4

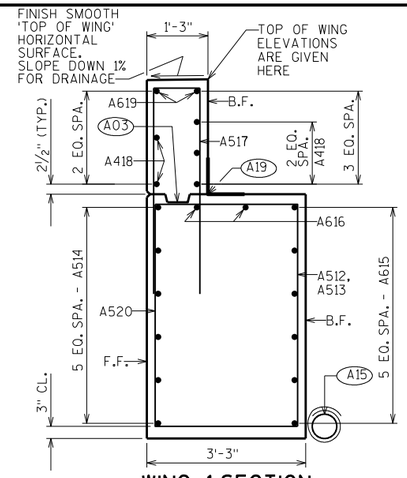
SCALE = 3.00

8

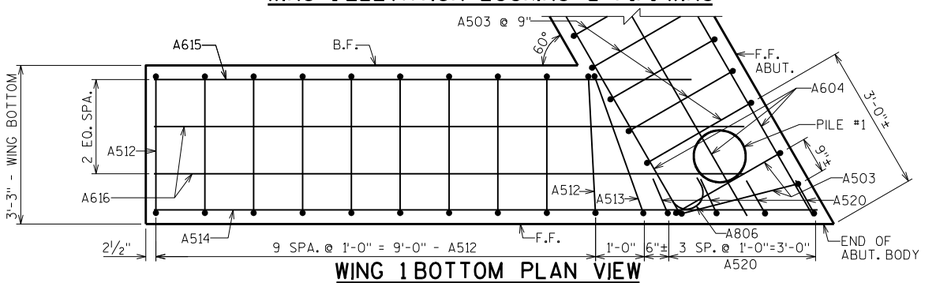
8



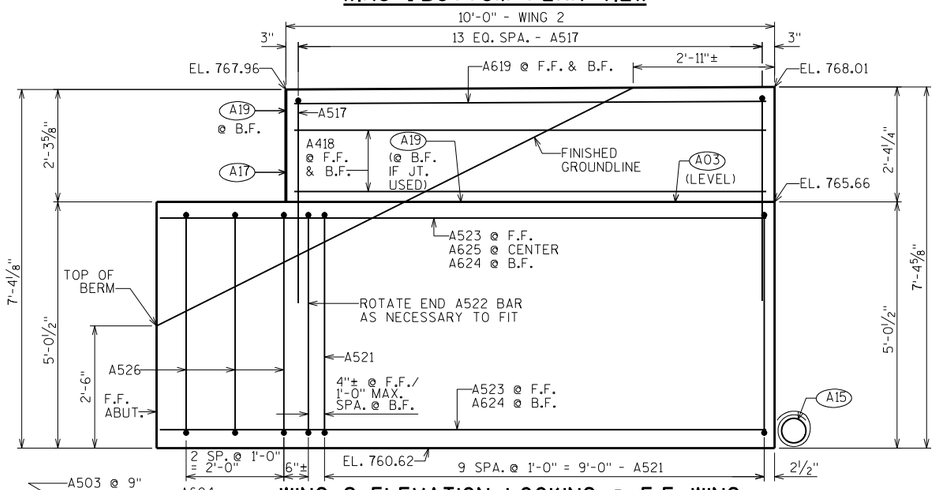
WING 1 ELEVATION LOOKING @ F.F. WING



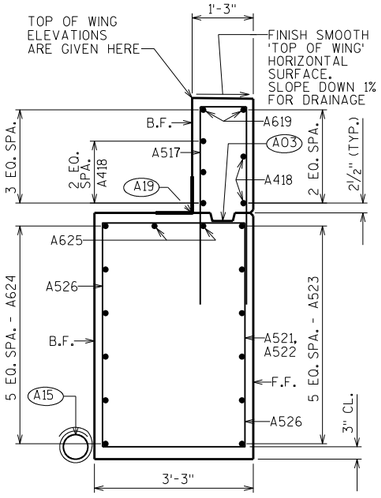
WING 1 SECTION



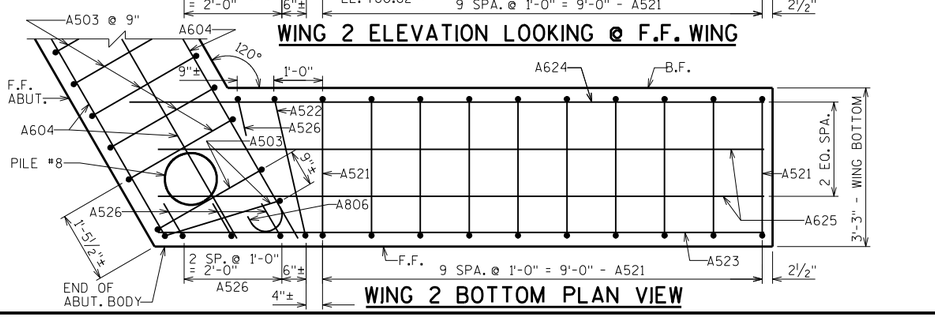
WING 1 BOTTOM PLAN VIEW



WING 2 ELEVATION LOOKING @ F.F. WING



WING 2 SECTION



WING 2 BOTTOM PLAN VIEW

STATE PROJECT NUMBER

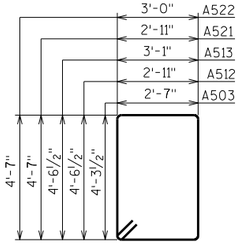
1146-75-71

BILL OF BARS

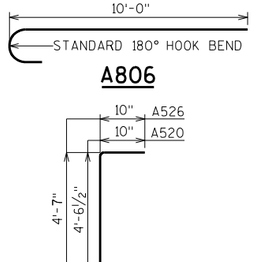
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

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.

A402

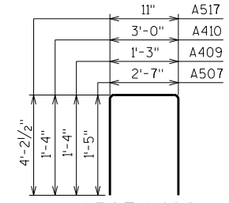


A503 A512 A513
A521 A522



A806

A520 A526



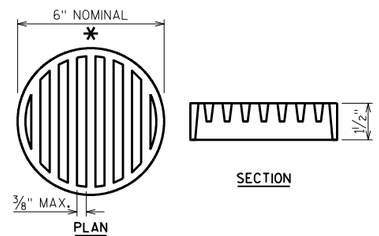
A507 A409
A410 A517

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2" x 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

* 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-44-296

DRAWN BY JPH | PLANS CK'D.

WEST ABUTMENT DETAILS

SHEET 5

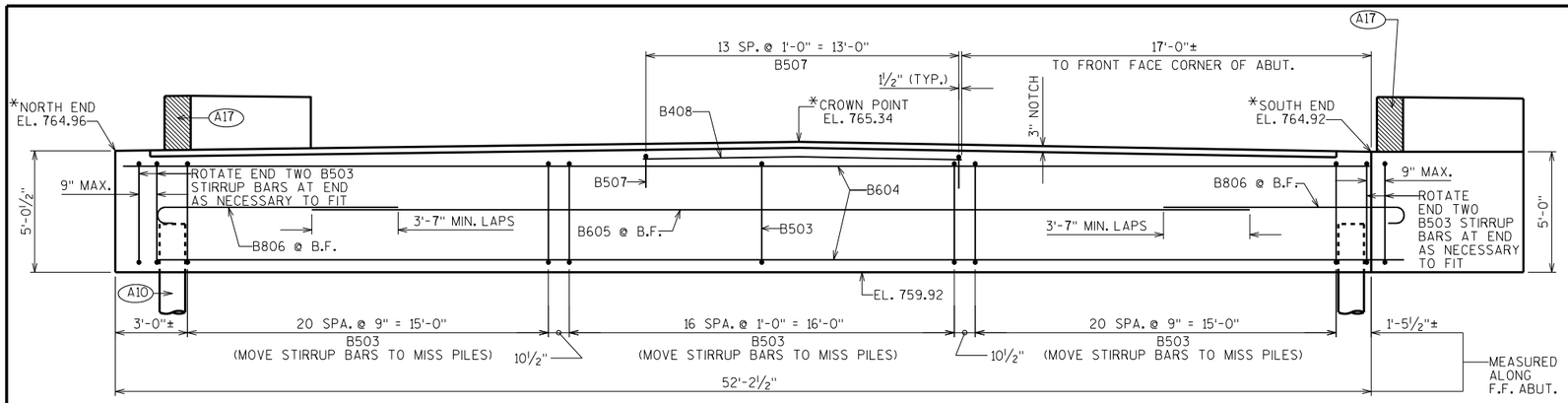
SCALE = 1.50

8

8

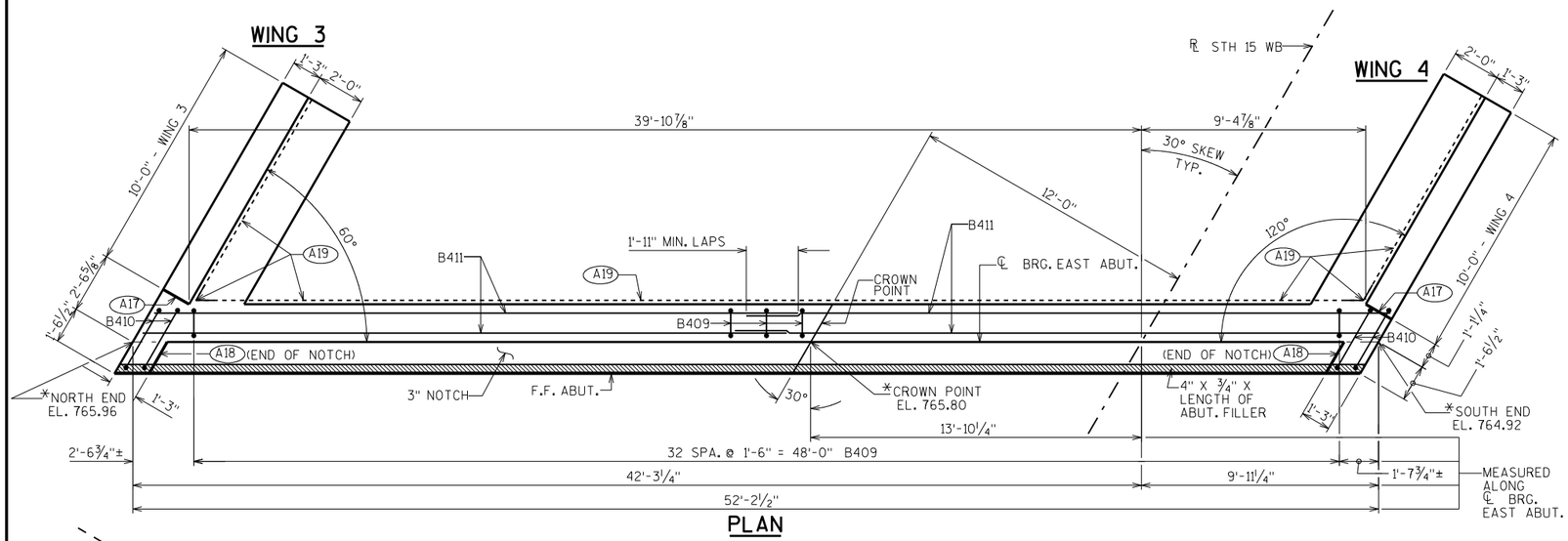
STATE PROJECT NUMBER

1146-75-71

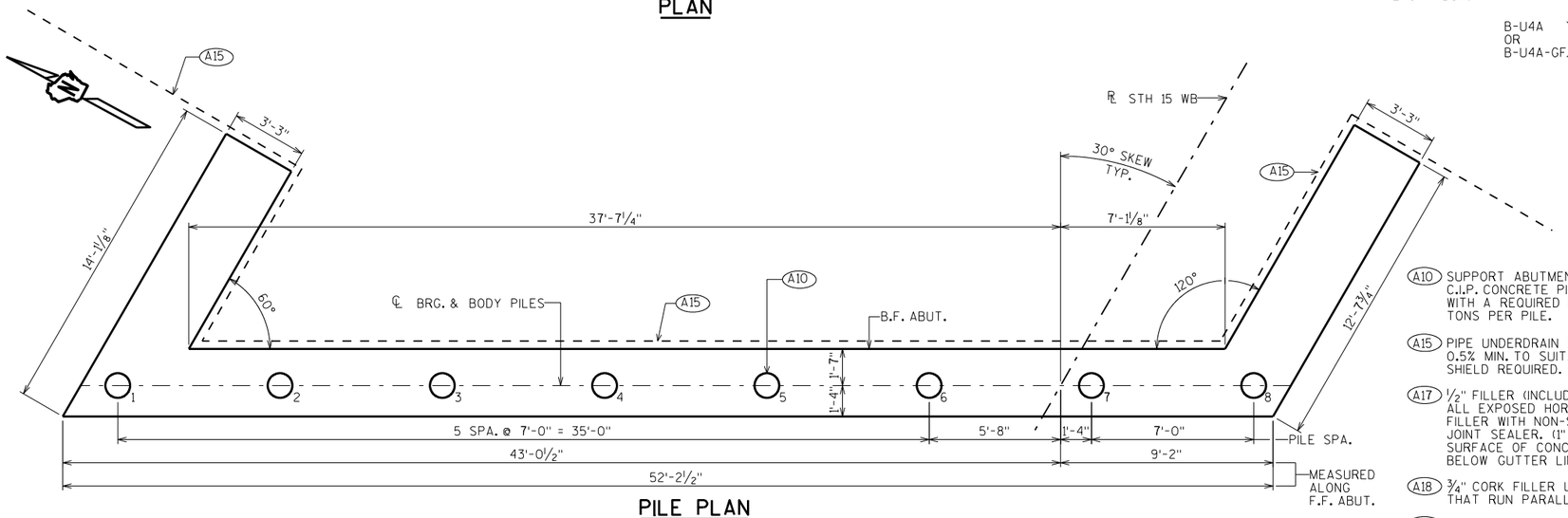


ELEVATION LOOKING EAST @ F.F. ABUT.

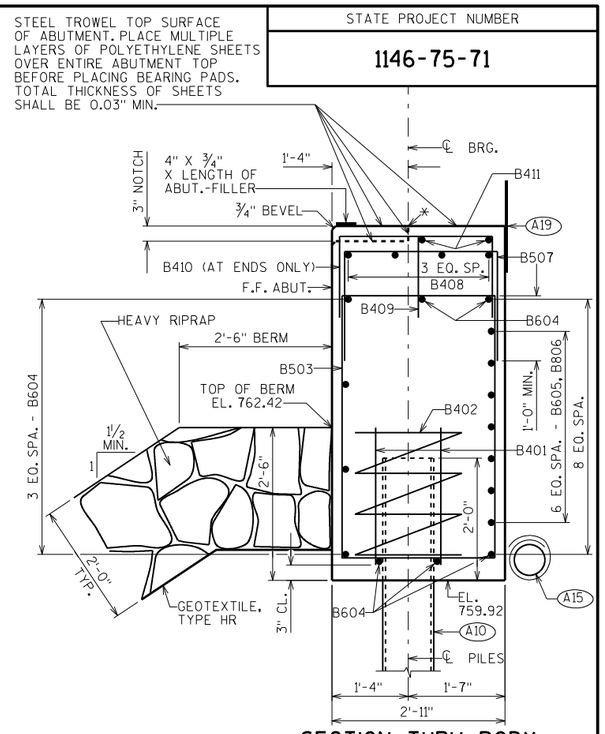
*TOP OF ABUT. ELEVATIONS ARE GIVEN HERE AT ℄ BRG. EAST ABUT.



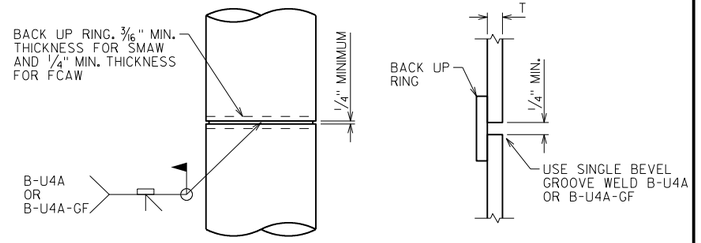
PLAN



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 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.

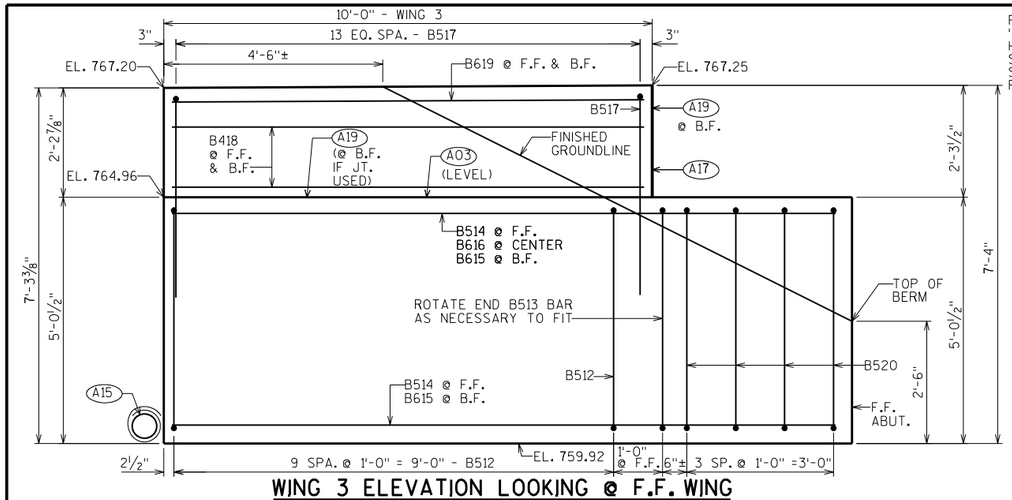
EAST ABUTMENT

SHEET 6

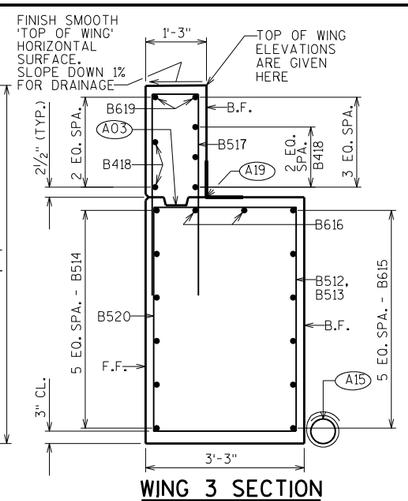
SCALE = 3.00

8

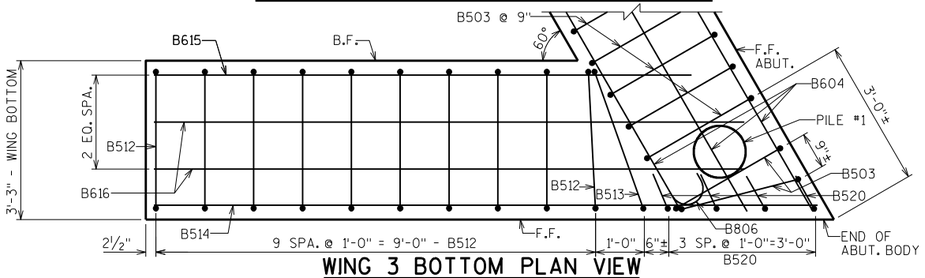
8



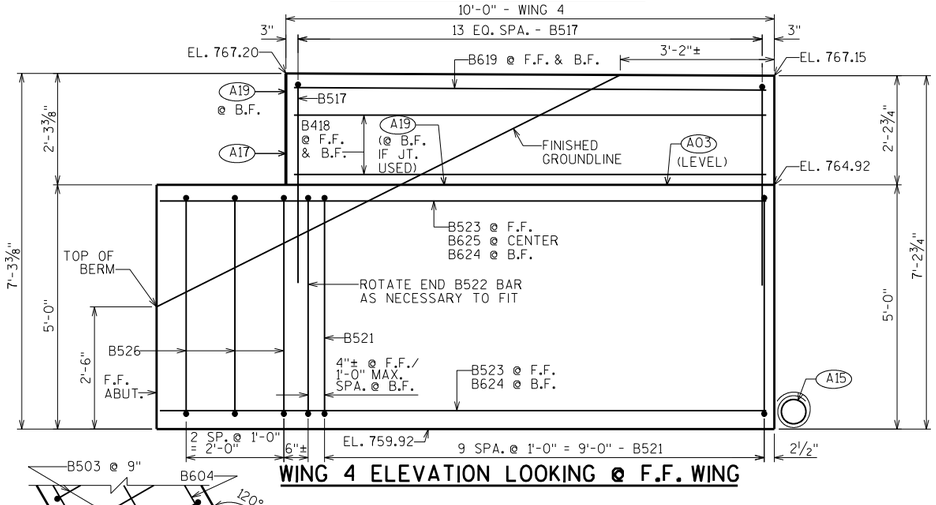
WING 3 ELEVATION LOOKING @ F.F. WING



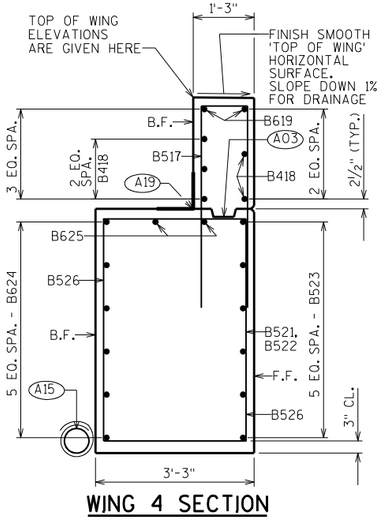
WING 3 SECTION



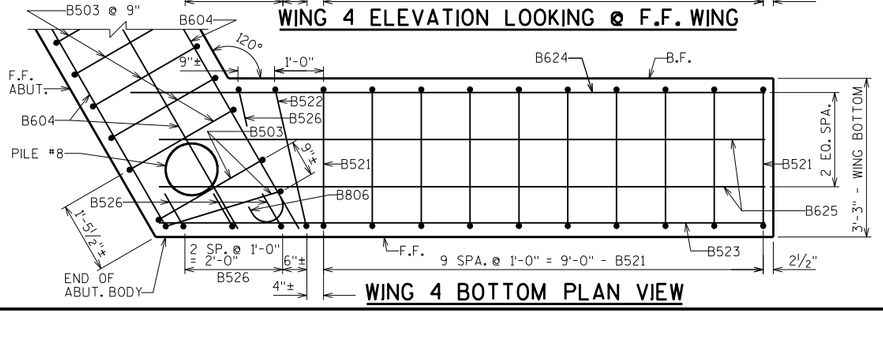
WING 3 BOTTOM PLAN VIEW



WING 4 ELEVATION LOOKING @ F.F. WING



WING 4 SECTION



WING 4 BOTTOM PLAN VIEW

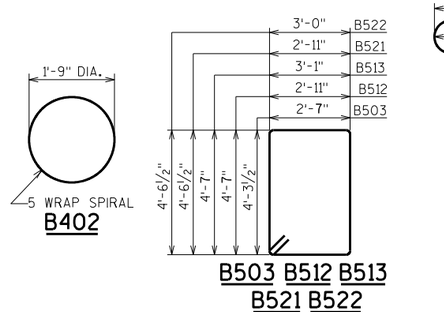
STATE PROJECT NUMBER

1146-75-71

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

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.

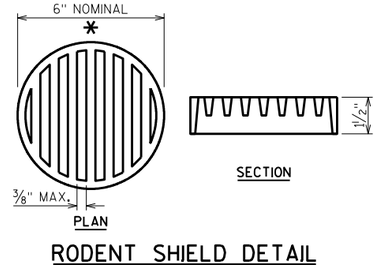


(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2" × 6". (18" RMW @ B.F. & ¾" "V" GROOVE @ F.F. IF JOINT IS USED).

(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

* 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-44-296

DRAWN BY JPH | PLANS CK'D.

EAST ABUTMENT DETAILS

SHEET 7

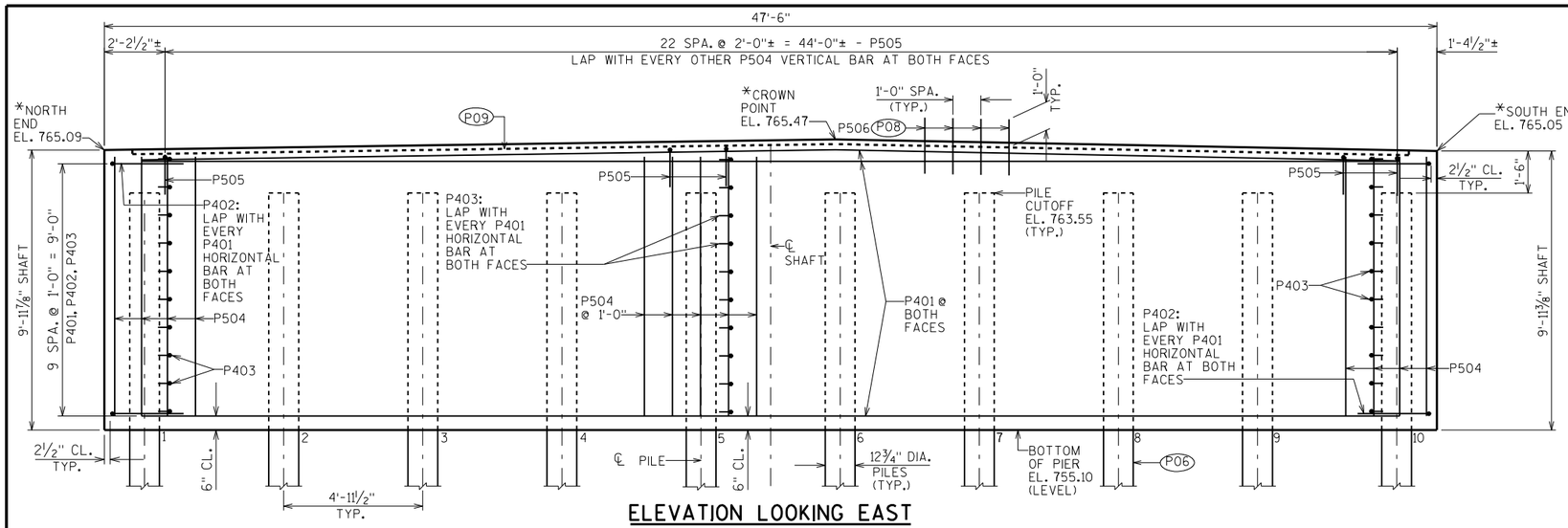
SCALE = 1.50

8

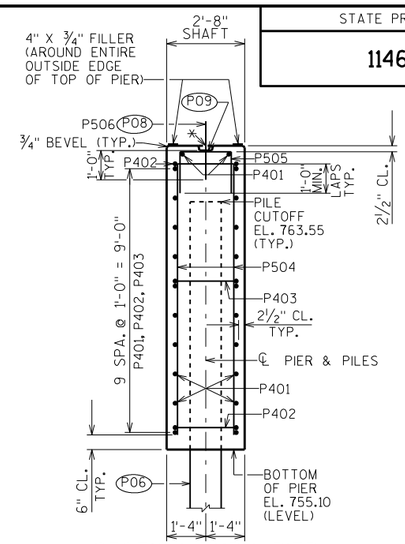
8

STATE PROJECT NUMBER

1146-75-71

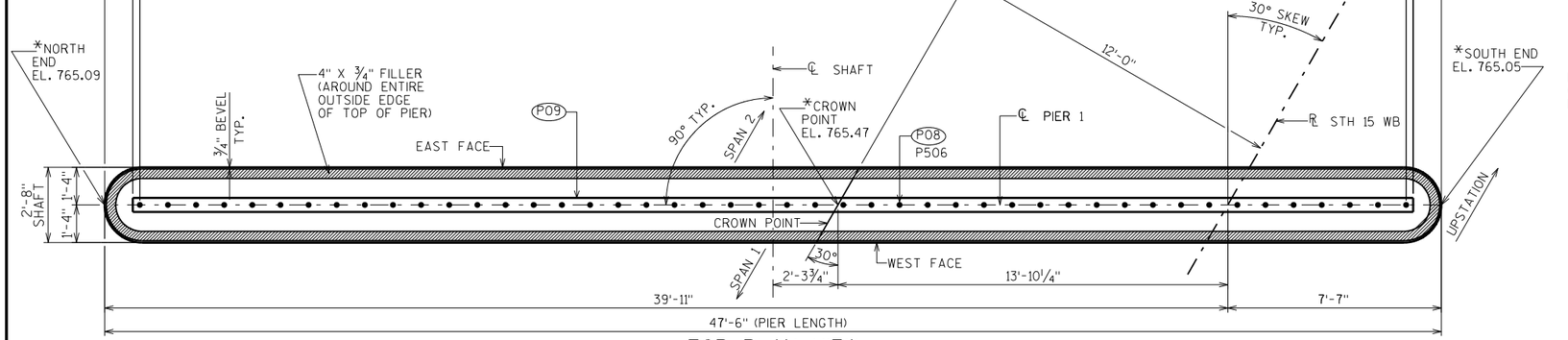


ELEVATION LOOKING EAST

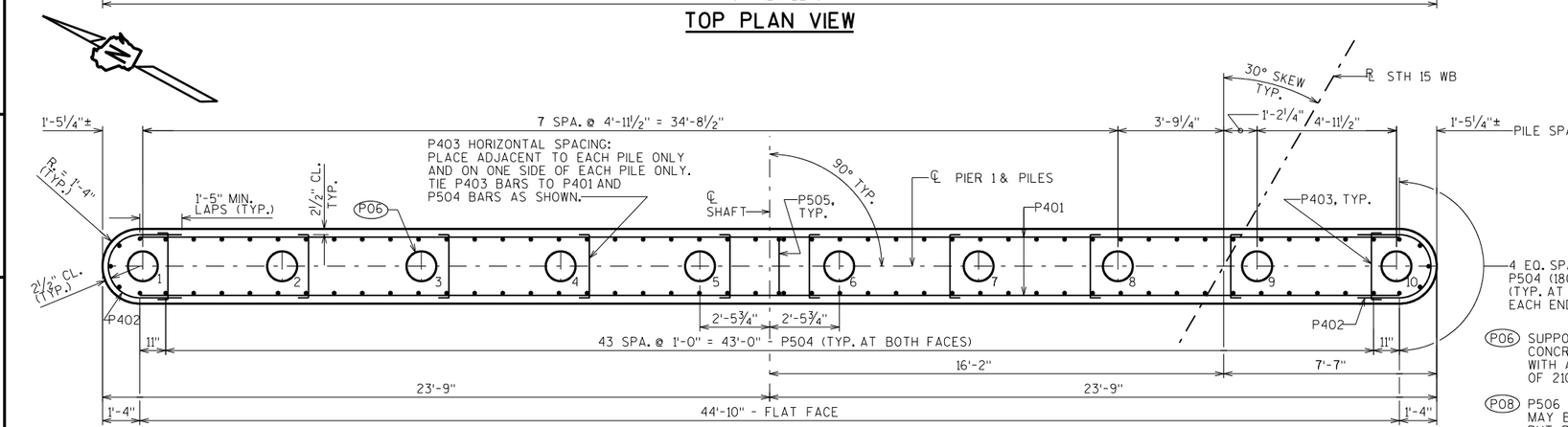


SECTION THRU PIER

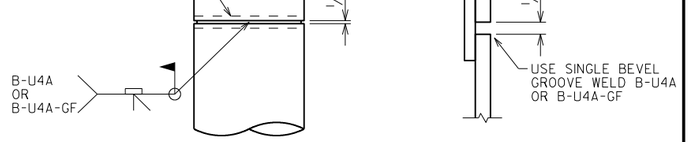
*TOP OF PIER SHAFT ELEVATIONS ARE GIVEN HERE AT THE ℄ PIER 1



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		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

DRAWN BY JPH | PLANS CK'D.

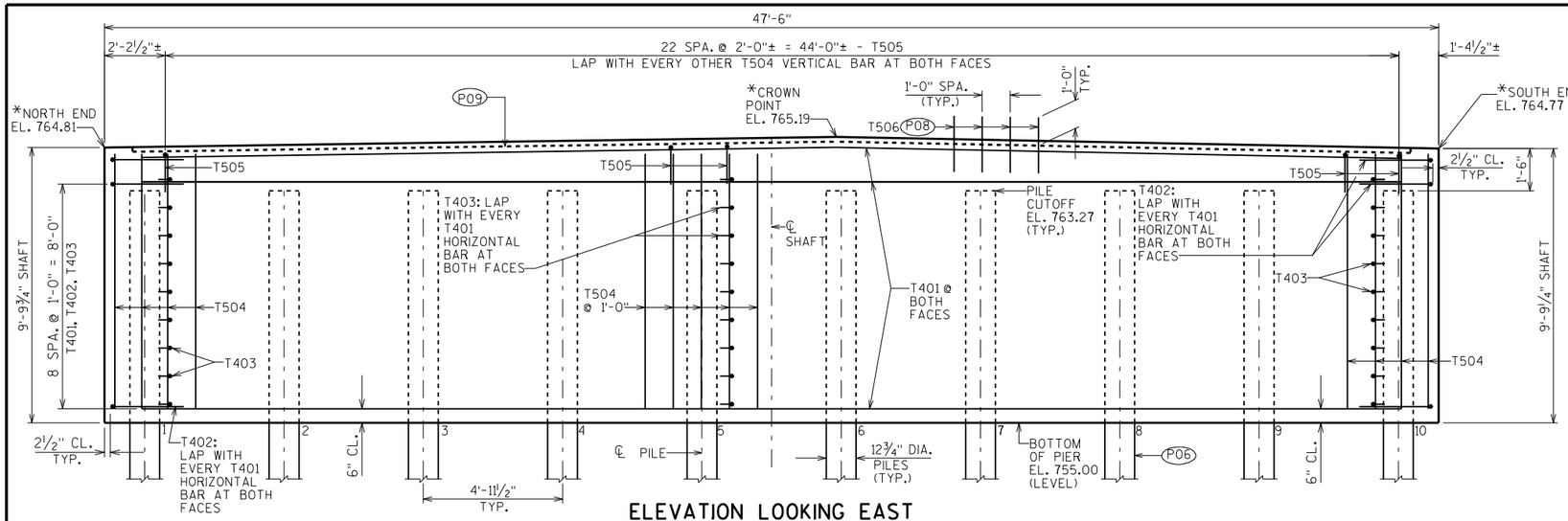
PIER 1

SHEET 8

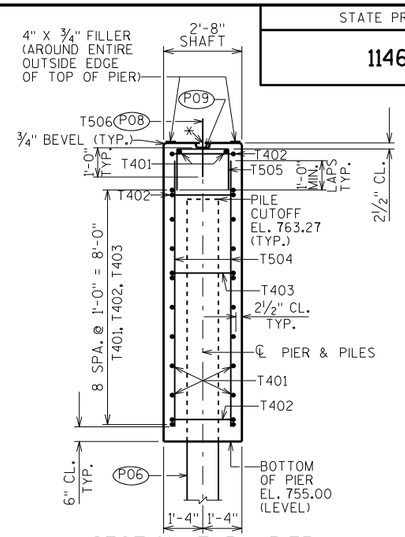
SCALE = 2.50

STATE PROJECT NUMBER

1146-75-71

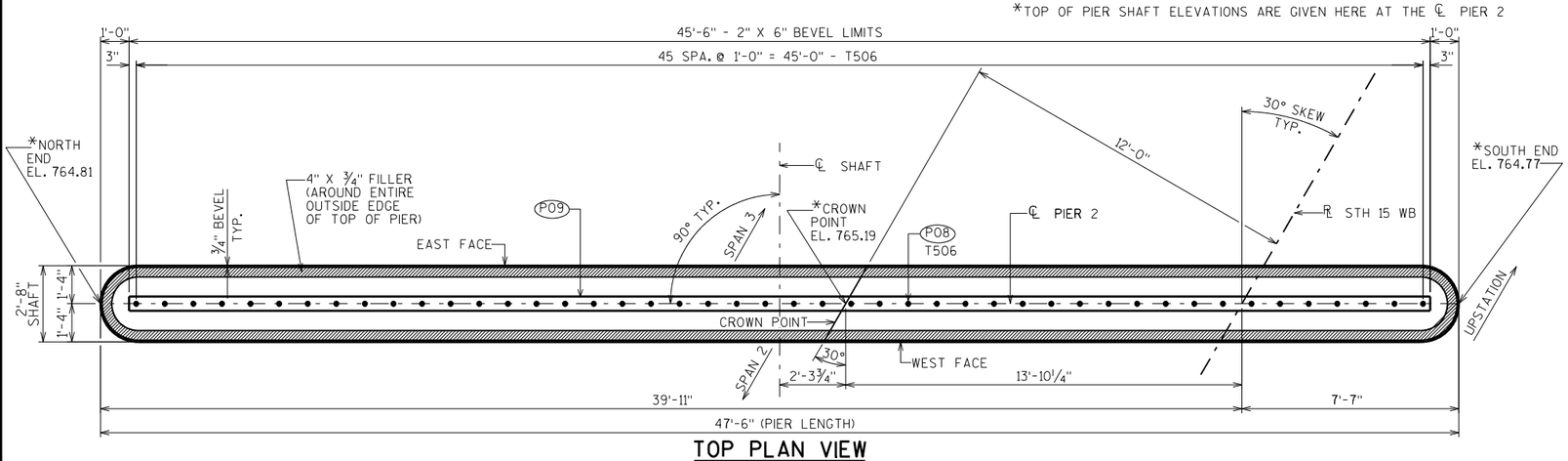


ELEVATION LOOKING EAST

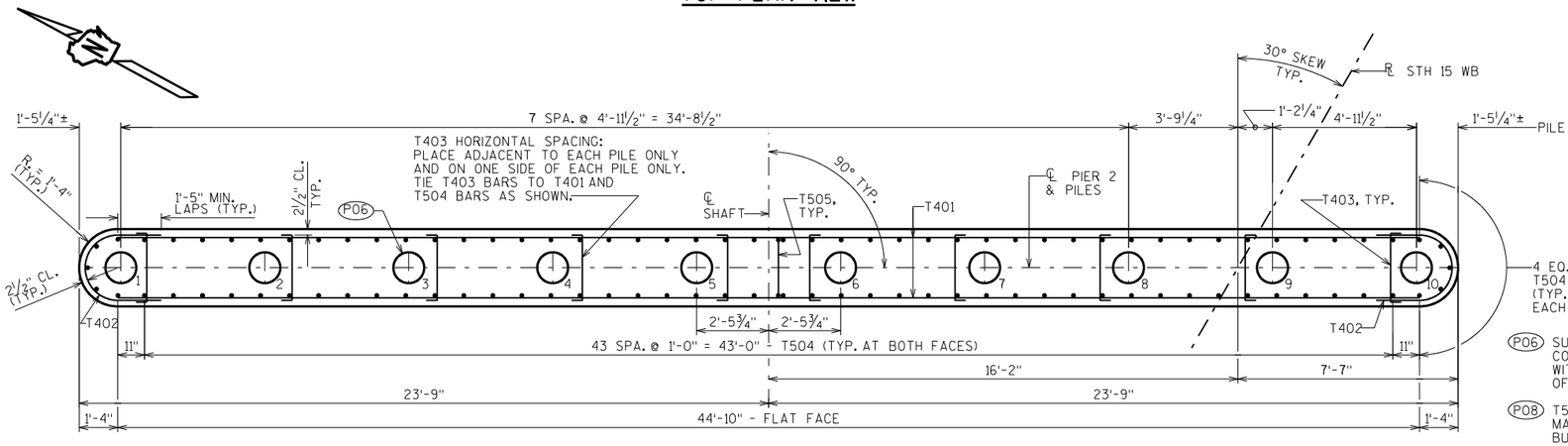


SECTION THRU PIER

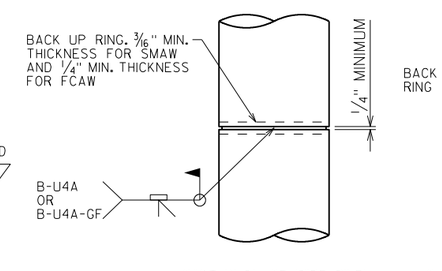
*TOP OF PIER SHAFT ELEVATIONS ARE GIVEN HERE AT THE ℄ PIER 2



TOP PLAN VIEW



PILE & REINFORCEMENT PLAN



CAST-IN-PLACE 'PIPE PILE'

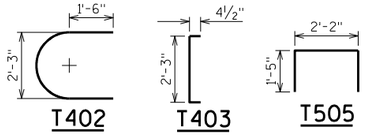
C.I.P. PILE WELD DETAIL

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



T402 T403 T505

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-44-296

DRAWN BY JPH | PLANS CK'D.

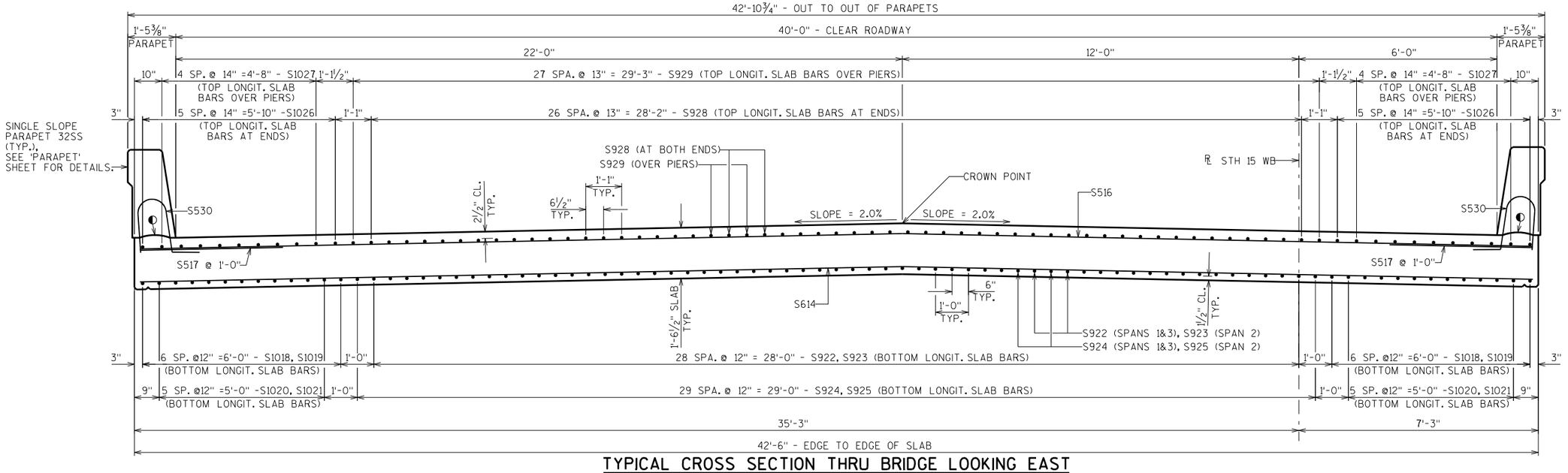
PIER 2

SHEET 9

SCALE = 2.50

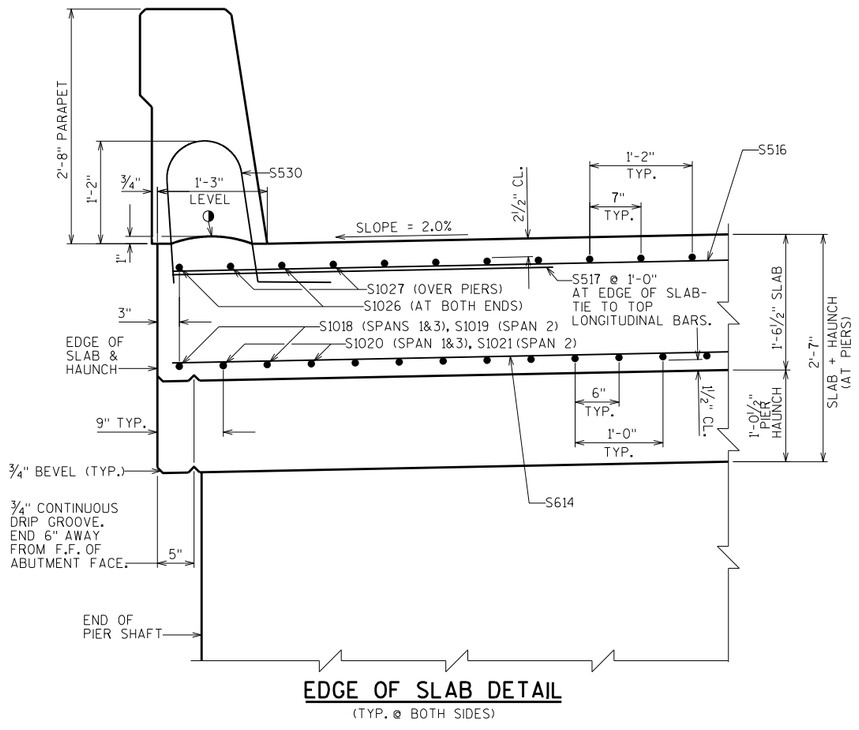
STATE PROJECT NUMBER

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-44-296

DRAWN BY JPH | PLANS CK'D.

SUPERSTRUCTURE CROSS SECTIONS 1

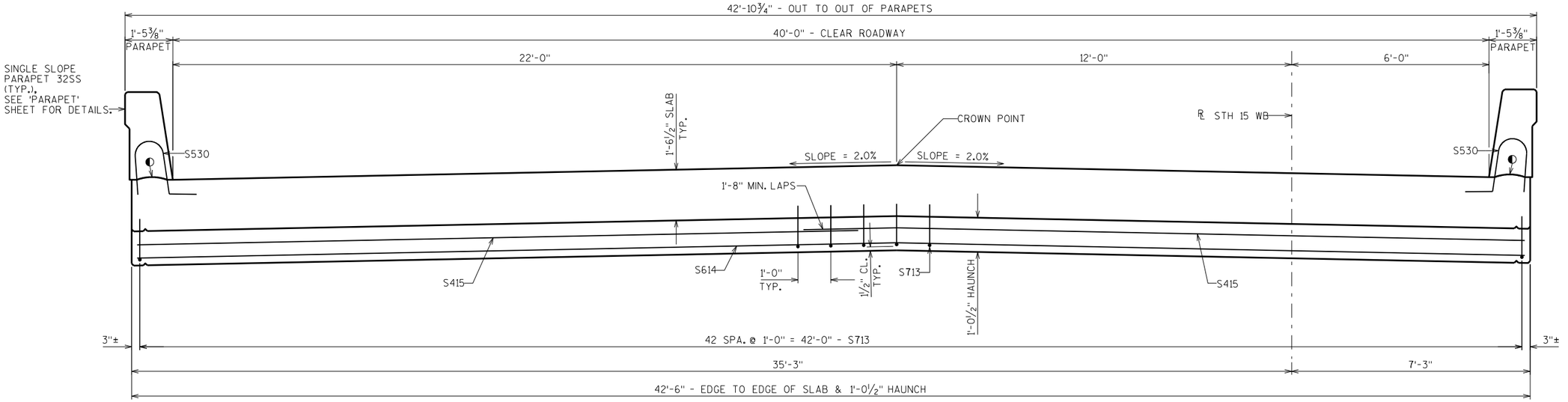
SHEET 10

SCALE = 1.67

8

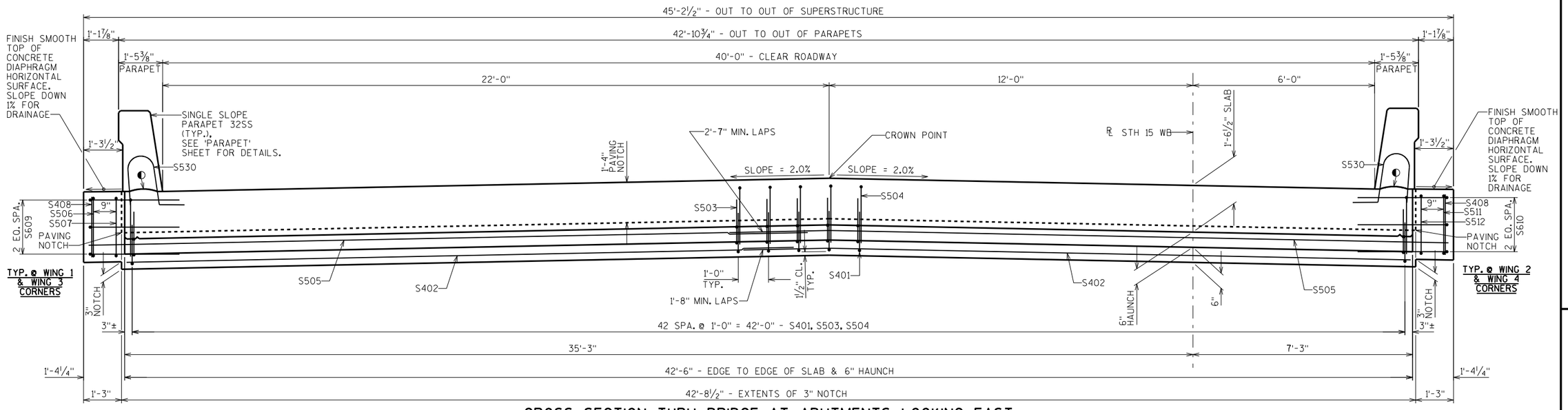
8

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-44-296

DRAWN BY	PLANS CK'D.
JPH	

SUPERSTRUCTURE CROSS SECTIONS 2

SHEET 11

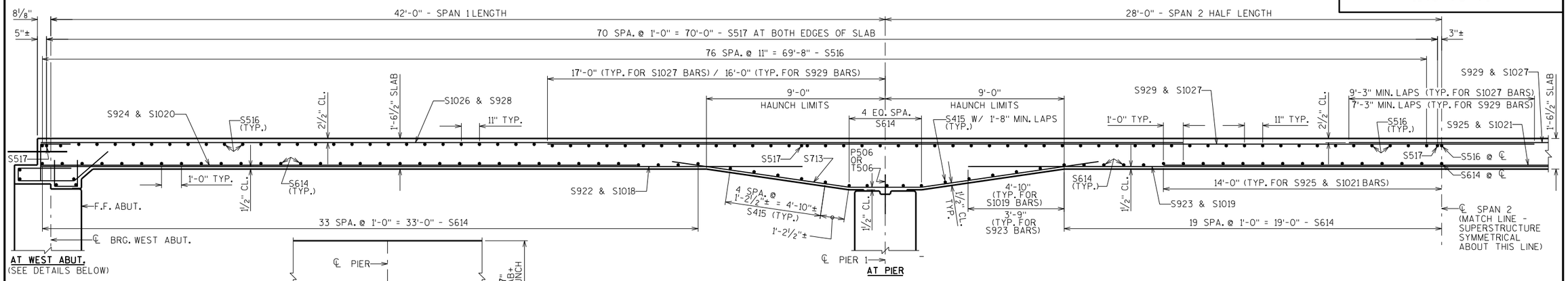
SCALE = 1.67

8

8

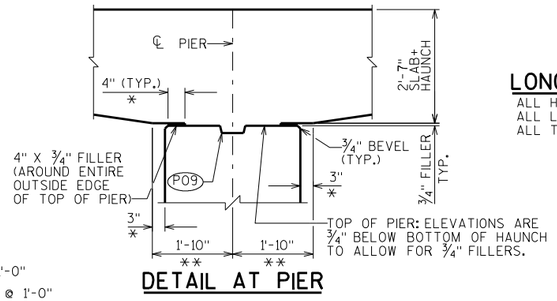
STATE PROJECT NUMBER

1146-75-71

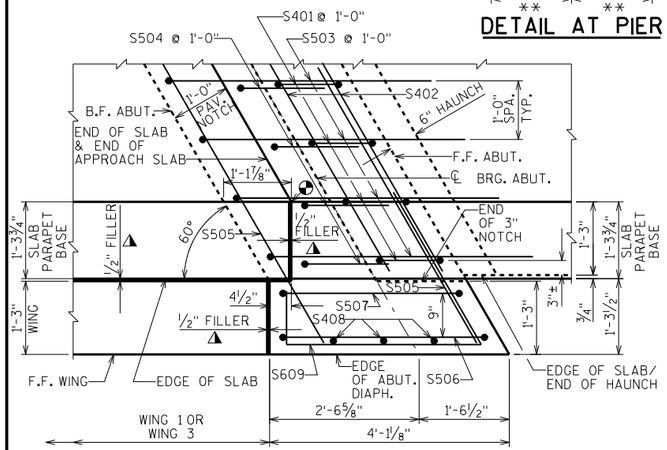


LONGITUDINAL SECTION THRU BRIDGE LOOKING NORTH

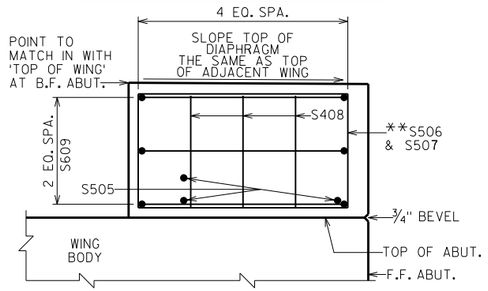
ALL HORIZONTAL DIMENSIONS ARE TAKEN PARALLEL TO "R STH 15 WB".
ALL LONGITUDINAL BARS ARE PLACED PARALLEL TO "R STH 15 WB".
ALL TRANSVERSE BARS ARE PLACED PARALLEL TO ℄ SUBSTRUCTURES.



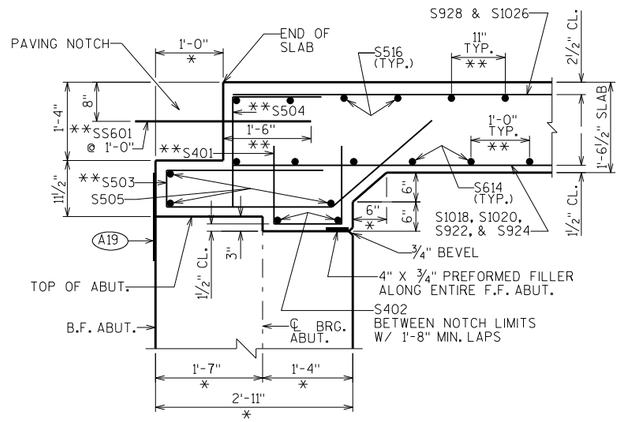
DETAIL AT PIER



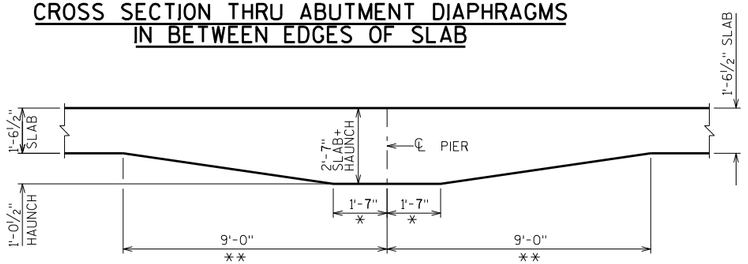
TYPICAL CORNER DETAIL AT WINGS 1&3 (PLAN VIEW)



TYPICAL CORNER DETAIL AT WINGS 1&3 (ELEVATION VIEW LOOKING AT F.F. WING)

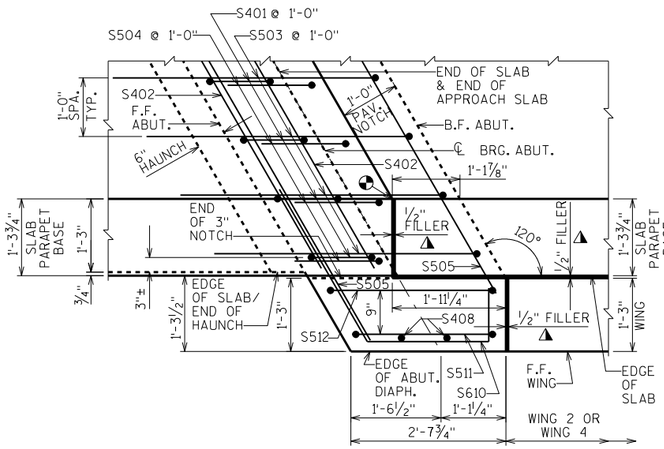


CROSS SECTION THRU ABUTMENT DIAPHRAGMS IN BETWEEN EDGES OF SLAB

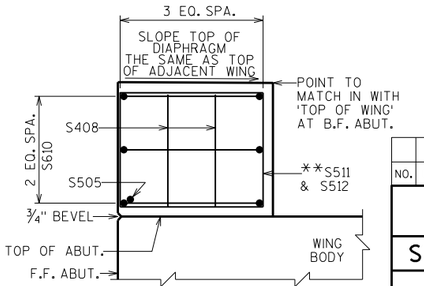


PART LONGITUDINAL SLAB & HAUNCH SECTION AT PIERS LOOKING AT OUTSIDE FACE

(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" × 6".

*DIMENSION IS TAKEN PERPENDICULAR TO ℄ SUBSTRUCTURES.

**DIMENSION IS TAKEN PARALLEL TO "R STH 15 WB". BARS PLACED PARALLEL TO "R 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, "R STH 15 WB AND CROWN POINT.

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STRUCTURE B-44-296

DRAWN BY JPH | PLANS CK'D.

SUPERSTRUCTURE DETAILS

SHEET 12

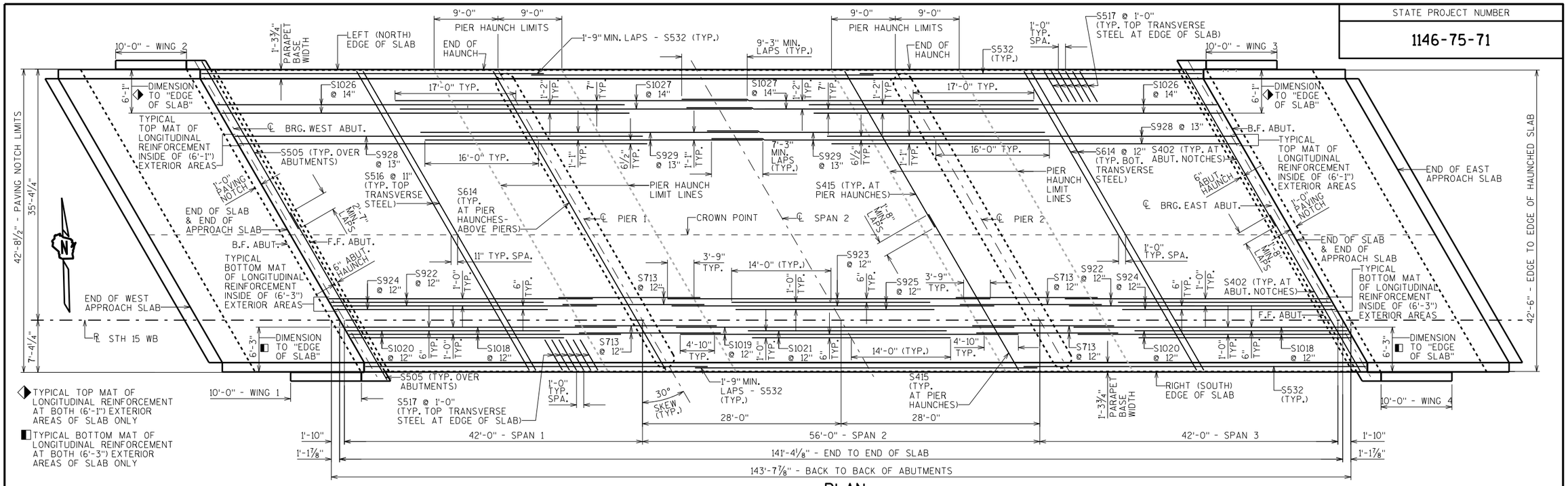
SCALE = 2.50

8

8

STATE PROJECT NUMBER

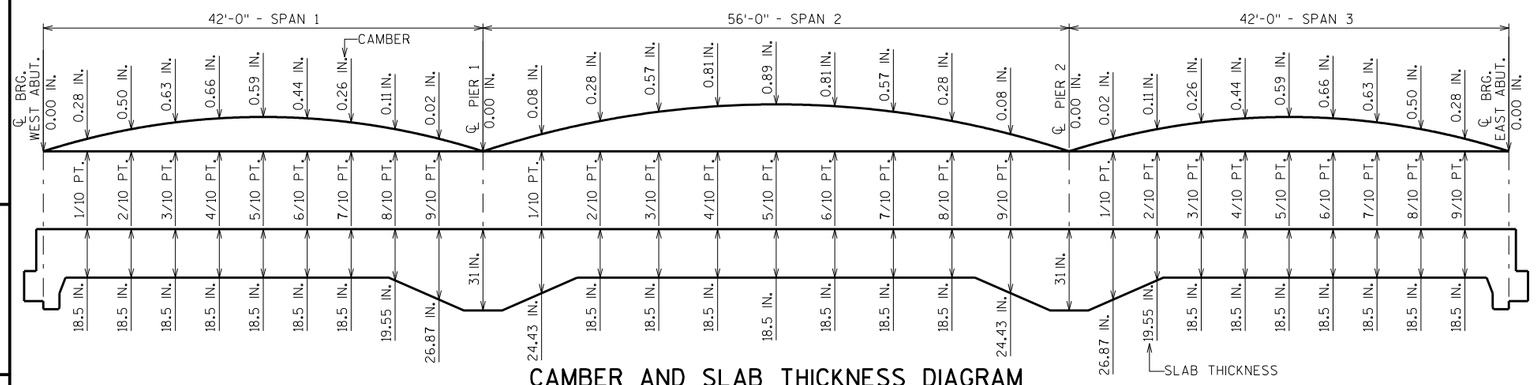
1146-75-71



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	767.91	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 | PLANS CK'D.

SUPERSTRUCTURE PLAN & DATA

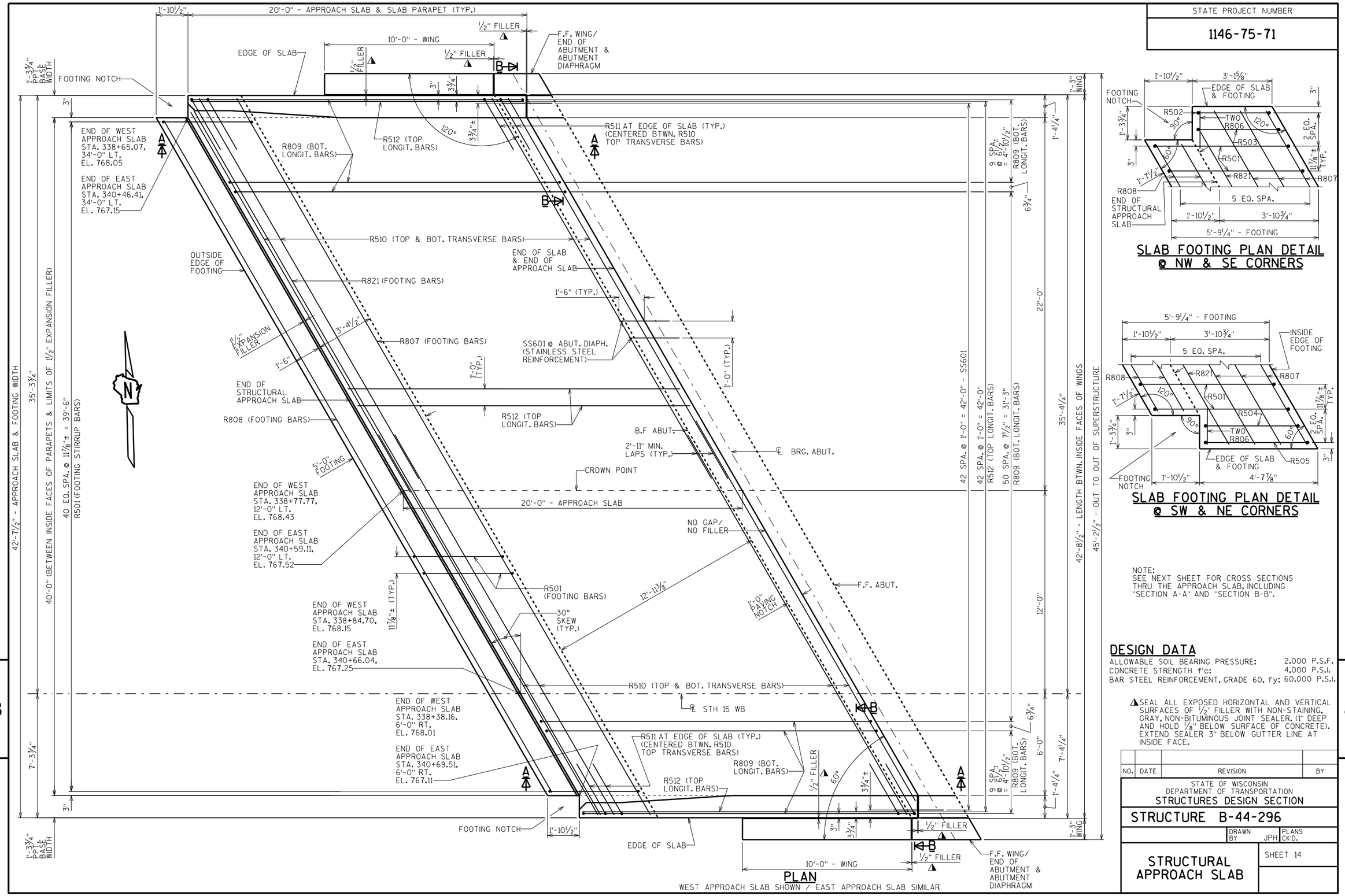
SHEET 13

SCALE = 7.00

8

8

STATE PROJECT NUMBER
1146-75-71



SLAB FOOTING PLAN DETAIL @ NW & SE CORNERS

SLAB FOOTING PLAN DETAIL @ SW & NE CORNERS

NOTE:
SEE NEXT SHEET FOR CROSS SECTIONS THRU THE APPROACH SLAB, INCLUDING "SECTION A-A" AND "SECTION B-B".

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.

⚠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.

STRUCTURAL APPROACH SLAB

SHEET 14

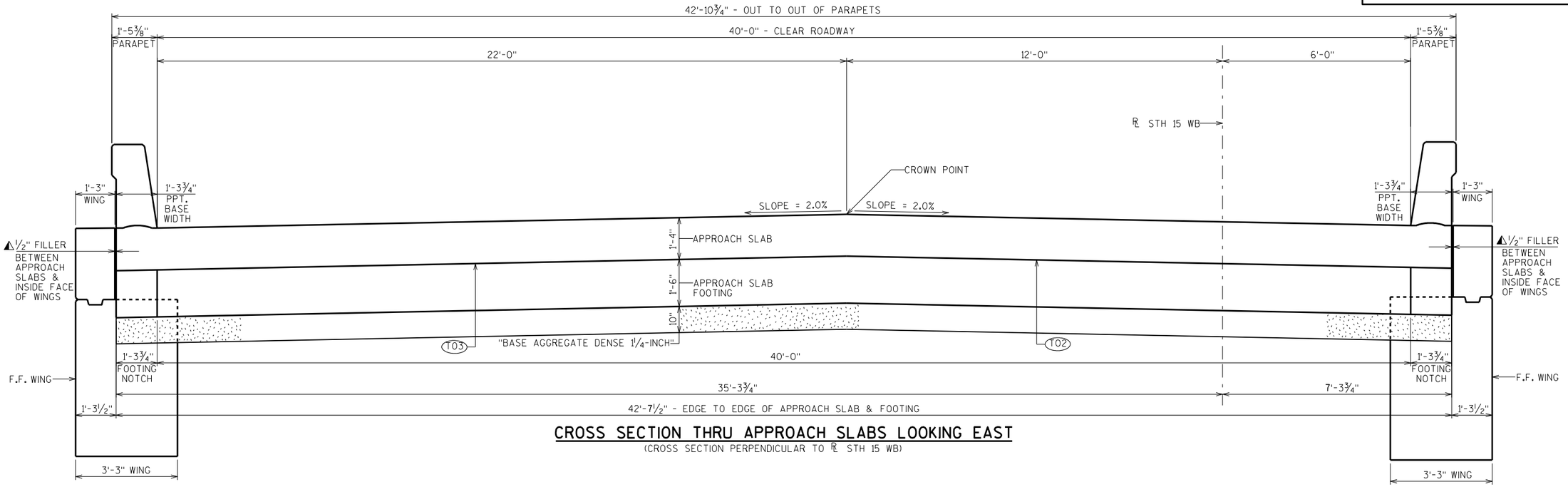
8

8

SCALE = 2.50

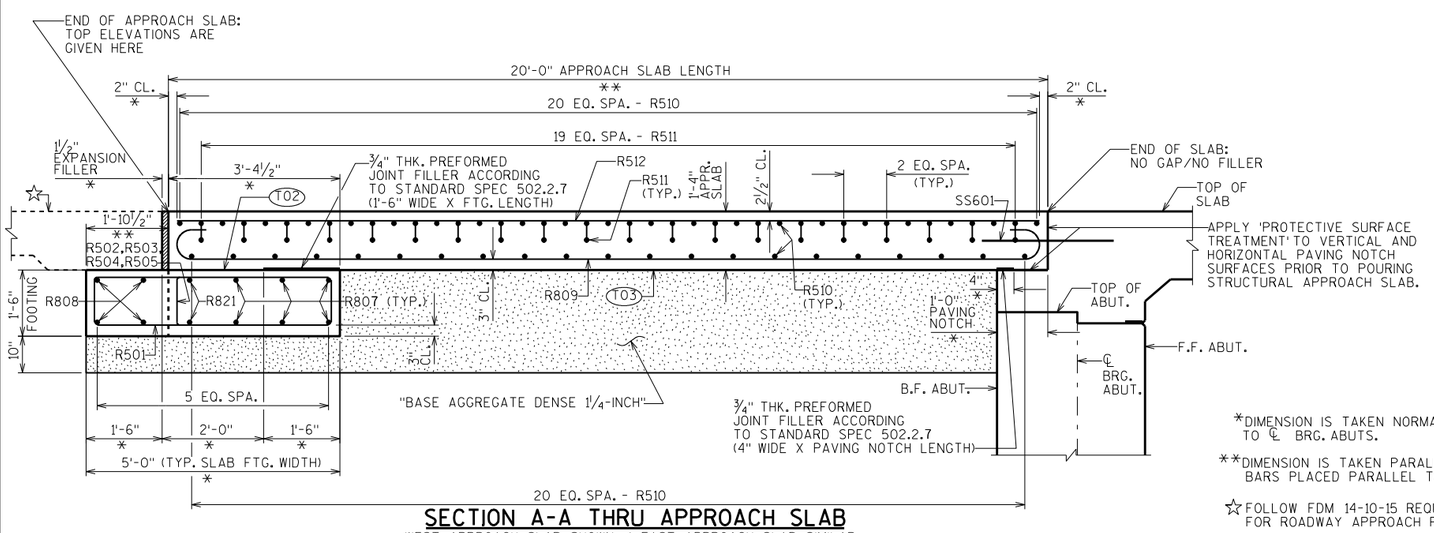
STATE PROJECT NUMBER

1146-75-71



CROSS SECTION THRU APPROACH SLABS LOOKING EAST

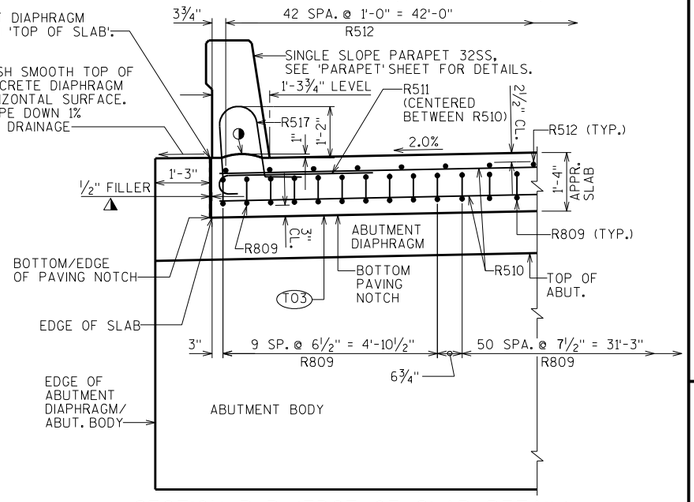
(CROSS SECTION PERPENDICULAR TO ℄ STH 15 WB)



SECTION A-A THRU APPROACH SLAB

WEST APPROACH SLAB SHOWN / EAST APPROACH SLAB SIMILAR

NOTE:
SEE THE 'BAR DETAILS' SHEET FOR THE BILL OF BARS AND BAR DETAILS FOR THE STRUCTURAL APPROACH SLAB R-BARS.



SECTION B-B (EDGE OF SLAB DETAIL)

*DIMENSION IS TAKEN NORMAL TO ℄ BRG. ABUTS.

**DIMENSION IS TAKEN PARALLEL TO ℄ STH 15 WB. BARS PLACED PARALLEL TO ℄ STH 15 WB.

☆FOLLOW FDM 14-10-15 REQUIREMENTS FOR ROADWAY APPROACH PAVEMENT.

◐HORIZ. CONST. JOINT: STRIKE OFF AND LEAVE ROUGH AS SHOWN

▲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.

(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.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-296

DRAWN BY JPH | PLANS CK'D.

STRUCTURAL APPROACH SLAB DETAILS

SHEET 15

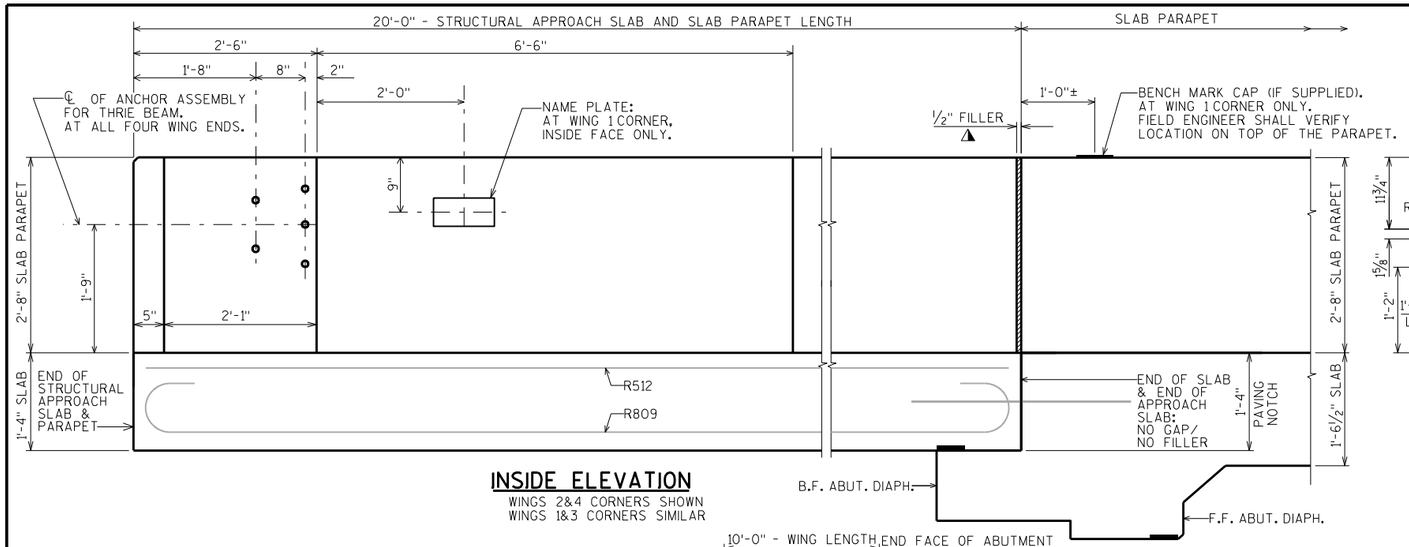
SCALE = 1.67

8

8

STATE PROJECT NUMBER

1146-75-71

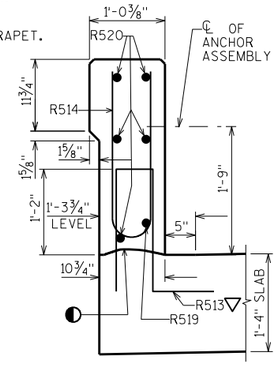


INSIDE ELEVATION

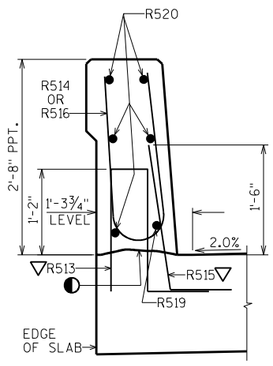
WINGS 2&4 CORNERS SHOWN
WINGS 1&3 CORNERS SIMILAR

NOTES:
SEE THE 'BAR DETAILS' SHEET FOR THE BILL OF BARS AND BAR DETAILS FOR THE APPROACH SLAB PARAPET R-BARS.

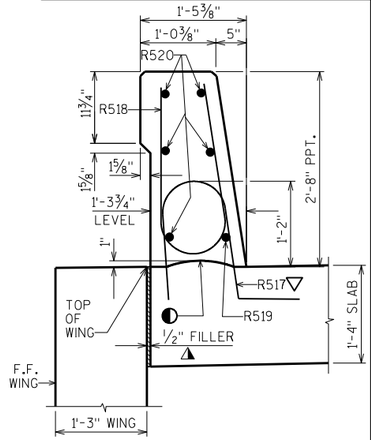
SEE THE 'BAR DETAILS' SHEET FOR THE BILL OF BARS AND BAR DETAILS FOR THE SUPERSTRUCTURE PARAPET S-BARS.



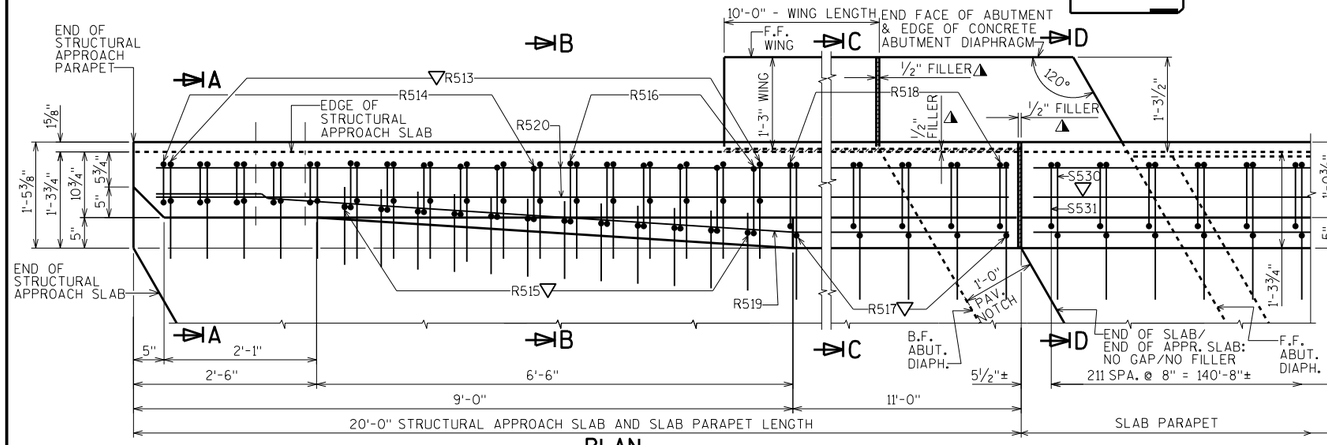
SECTION A-A



SECTION B-B

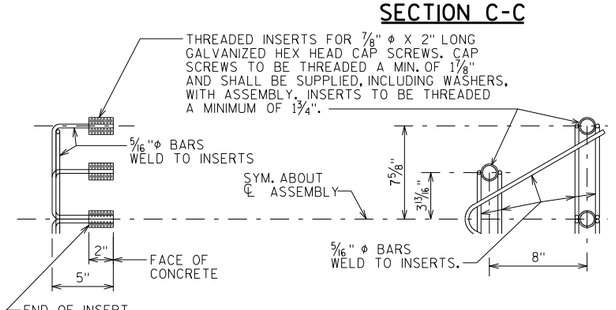


SECTION C-C



PLAN

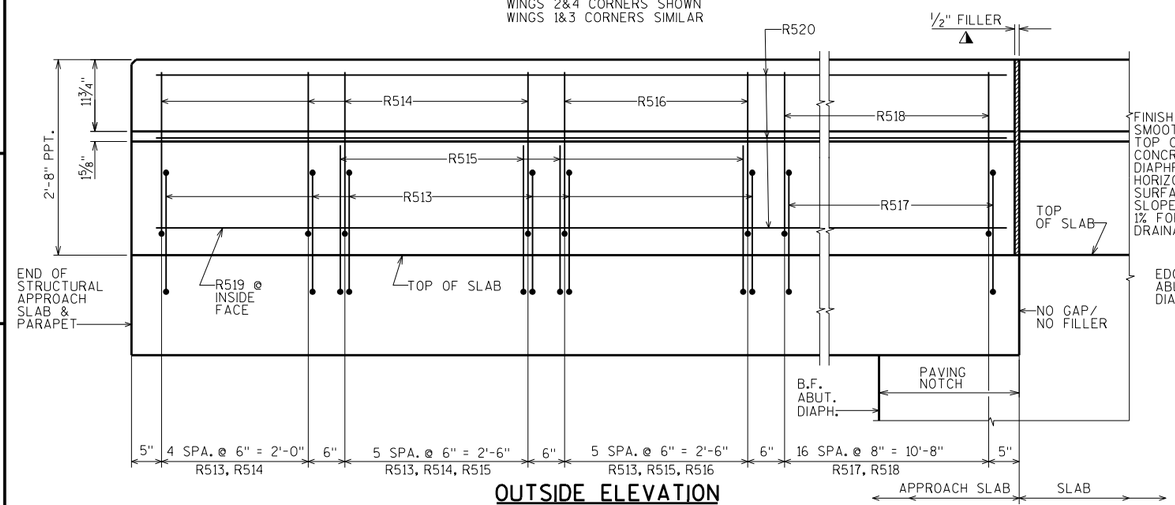
WINGS 2&4 CORNERS SHOWN
WINGS 1&3 CORNERS SIMILAR



DETAIL OF ANCHOR ASSEMBLY

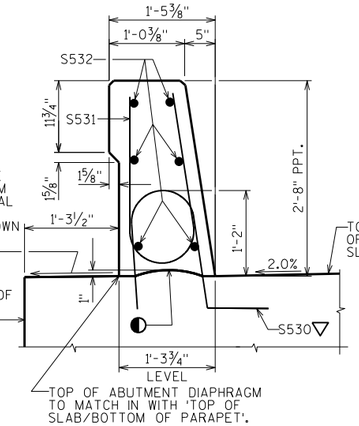
NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

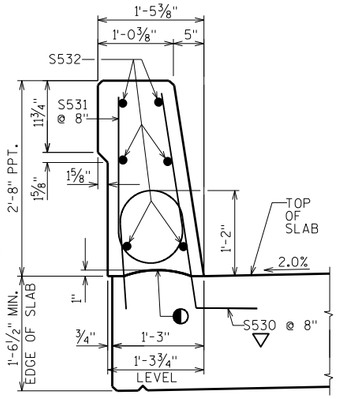


OUTSIDE ELEVATION

(WING NOT SHOWN FOR CLARITY)
WINGS 1&3 CORNERS SHOWN
WINGS 2&4 CORNERS SIMILAR



SECTION D-D (OVER ABUT. DIAPHRAGM)



SECTION E-E (AT SLAB)

▲ 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.

◐ HORIZ. CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.

▽ R513, R515, R517 & S530 PARAPET BARS TO BE TIED TO SLAB OR SLAB STEEL BEFORE SLAB OR SLAB IS POURED. USE CARE TO PLACE R515 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-296

DRAWN BY JPH | PLANS CK'D.

SINGLE SLOPE PARAPET 32SS

SHEET 16

SCALE = 1.00

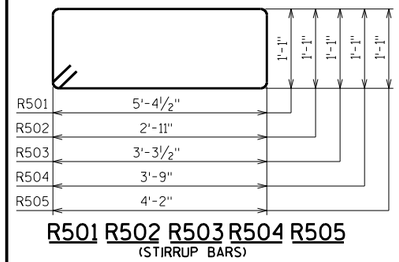
8

8

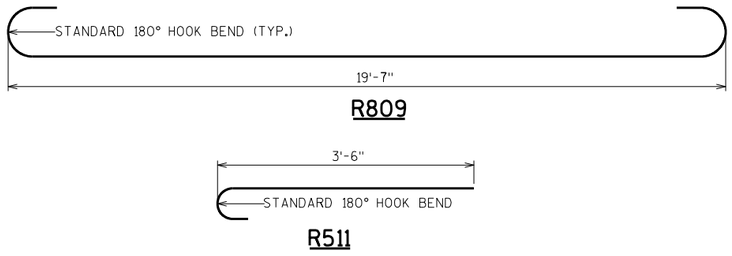
BILL OF BARS FOR STRUCTURAL APPROACH SLABS

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	LOCATION
R501	X	41	41	13'-7"	X	FOOTING-VERTICAL-LONGITUDINAL-STIRRUP BAR-AT CENTER
R502	X	1	1	8'-8"	X	FOOTING-VERTICAL-LONGITUDINAL-STIRRUP BAR-AT WING 2&4 ENDS ONLY
R503	X	1	1	9'-5"	X	FOOTING-VERTICAL-LONGITUDINAL-STIRRUP BAR-AT WING 2&4 ENDS ONLY
R504	X	1	1	10'-4"	X	FOOTING-VERTICAL-LONGITUDINAL-STIRRUP BAR-AT WING 1&3 ENDS ONLY
R505	X	1	1	11'-2"	X	FOOTING-VERTICAL-LONGITUDINAL-STIRRUP BAR-AT WING 1&3 ENDS ONLY
R806	X	4	4	1'-4"		FOOTING-TOP & BOTTOM-HORIZONTAL-TRANSVERSE-AT ENDS ONLY
R807	X	6	6	48'-10"		FOOTING-TOP & BOTTOM-HORIZONTAL-TRANSVERSE-AT INSIDE FACE
R808	X	4	4	45'-9"		FOOTING-TOP & BOTTOM-HORIZONTAL-TRANSVERSE-AT OUTSIDE FACE
R809	X	71	71	21'-5"	X	SLAB-BOTTOM-VERTICAL-LONGITUDINAL
R510	X	84	84	26'-0"		SLAB-TOP & BOTTOM-HORIZONTAL-TRANSVERSE
R511	X	40	40	4'-1"	X	SLAB-TOP-VERTICAL-TRANSVERSE-AT BOTH EDGES
R512	X	43	43	19'-7"		SLAB-TOP-HORIZONTAL-LONGITUDINAL
R513	X	34	34	4'-4"	X	PARAPETS 32SS/SLAB-VERTICAL-TRANSVERSE-AT ALL FOUR PPT. ENDS
R514	X	22	22	4'-9"	X	PARAPET 32SS-END-VERTICAL-TRANSVERSE-AT ALL FOUR PPT. ENDS
R515	X	24	24	2'-9"	X	PARAPETS 32SS/SLAB-INSIDE FACE-VERTICAL-TRANSVERSE-AT ALL FOUR PPT. ENDS
R516	X	12	12	4'-10"	X	PARAPET 32SS-VERTICAL-TRANSVERSE-AT ALL FOUR PPT. ENDS
R517	X	34	34	4'-5"	X	PARAPETS/SLAB-VERTICAL-TRANSVERSE-AT ALL FOUR PPT. ENDS
R518	X	34	34	5'-0"	X	PARAPET 32SS-VERTICAL-TRANSVERSE-AT ALL FOUR PPT. ENDS
R519	X	2	2	19'-5"	X	PARAPET 32SS-BOT.-INSIDE FACE-HORIZONTAL-LONGITUDINAL-AT ALL FOUR PPT. ENDS
R520	X	10	10	19'-5"		PARAPET 32SS-BOTH FACES-HORIZONTAL-LONGITUDINAL-AT ALL FOUR PPT. ENDS
R821	X	2	2	47'-9"		FOOTING-TOP & BOTTOM-HORIZONTAL-TRANSVERSE-AT MIDDLE

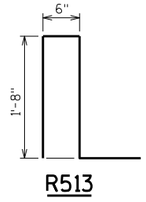


R501 R502 R503 R504 R505
(STIRRUP BARS)

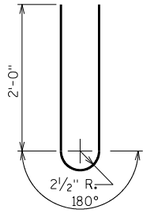


R809

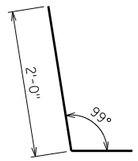
R511



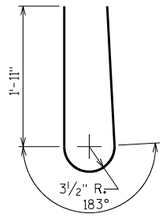
R513



R514



R515



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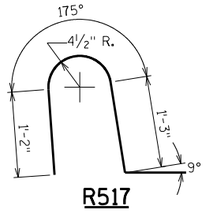

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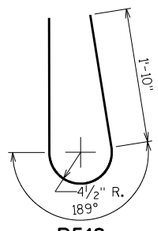

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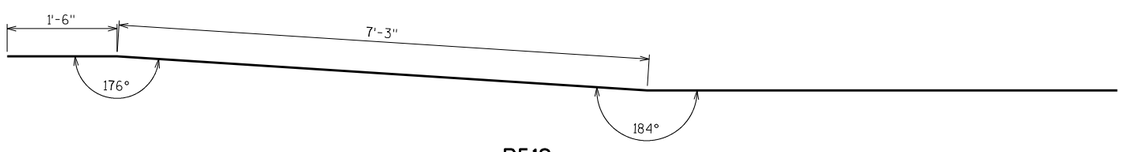


R519

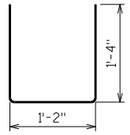
BILL OF BARS FOR SUPERSTRUCTURE

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

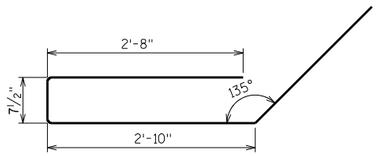
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
S401	X	86	3'-8"	X	ABUT. DIAPHS.-F.F.-BOT.-VERT.-LONGIT.-AT 3" NOTCHES
S402	X	8	25'-4"		ABUT. DIAPHS.-F.F.-BOT.-HORIZ.-TRANS.-AT 3" NOTCHES
S503	X	86	8'-1"	X	ABUT. DIAPHS./SLAB-BOT.-VERT.-LONGIT.-UNDER PAVING NOTCHES
S504	X	86	3'-4"	X	ABUT. DIAPHS./SLAB-VERT.-LONGIT.-ALONG 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	5'-0"	X	PARAPETS-VERTICAL-TRANSVERSE-AT BOTH SIDES
S532	X	36	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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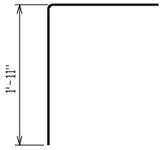

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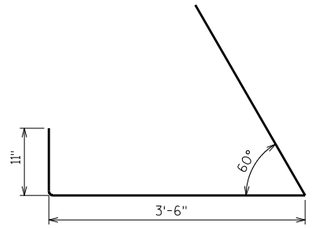

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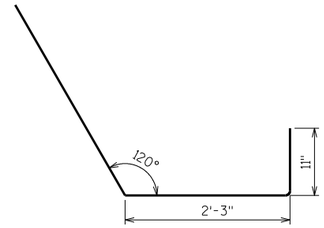

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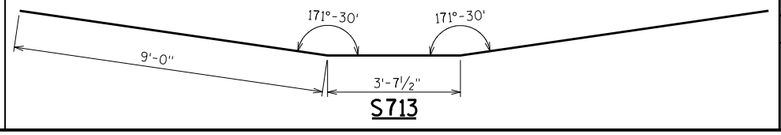
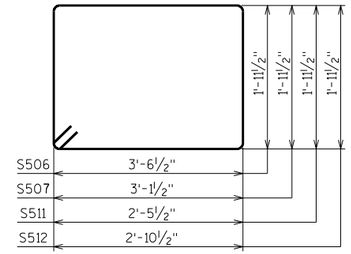
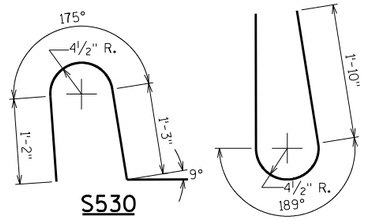


S713



S506 S507 S511 S512
(STIRRUP BARS)



S530 S531

STATE PROJECT NUMBER

1146-75-71

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-296

DRAWN BY JPH | PLANS CK'D.

SUPERSTRUCTURE & APPROACH SLAB BAR DETAILS

SHEET 17

SCALE = 1.00

8

8

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
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

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)						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
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)						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
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)						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
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)						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
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) Cut	Fill	Marsh Exc	Rock Exc	Incremental Vol (CY) (Unadjusted) 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	41.16	2959.62	0.00	0.00	187	4,184	0
387+50	38750.00	50.00	0.00	3758.24	0.00	0.00	38	6,220	0
388+00	38800.00	50.00	0.00	3776.46	0.00	0.00	0	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
							39,070	59,473	25,373

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

FILE NAME : N:\PDS\...\090100_ewpptx PLOT DATE : June 14, 1911 PLOT BY : A.R.H. PLOT NAME : PLOT SCALE : 1:1

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

9

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

FILE NAME : N:\PDS\...\090100_ewpptx PLOT DATE : June 14, 1911 PLOT BY : A.R.H. PLOT NAME : PLOT SCALE : 1:1

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

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

FILE NAME : N:\PDS\...\090100_ewpptx PLOT DATE : June 14, 1911 PLOT BY : A.R.H. PLOT NAME : PLOT SCALE : 1:1

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)						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
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

NASH ST. – STH 15 STA 465+00

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
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

NASH ST. – STH 15 STA 465+00

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
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	0.00	0.00	0.00	86	0	4,047	0	0	0
430+00	43000.00	50.00	12.19	0.00	3000.01	0.00	0.00	0.00	51	0	4,993	0	0	0
430+50	43050.00	50.00	5.40	0.00	3681.98	0.00	0.00	0.00	16	0	6,187	0	0	0
431+00	43100.00	50.00	70.32	0.00	3529.96	0.00	0.00	0.00	70	0	6,678	0	0	0
431+50	43150.00	50.00	68.48	0.00	2641.61	0.00	0.00	0.00	129	0	5,714	0	0	0
432+00	43200.00	50.00	167.47	0.00	2236.67	0.00	0.00	181.63	218	0	4,517	0	0	168
432+50	43250.00	50.00	303.01	0.00	1348.35	0.00	0.00	1284.87	436	0	3,319	0	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

NASH ST. – STH 15 STA 465+00

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
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

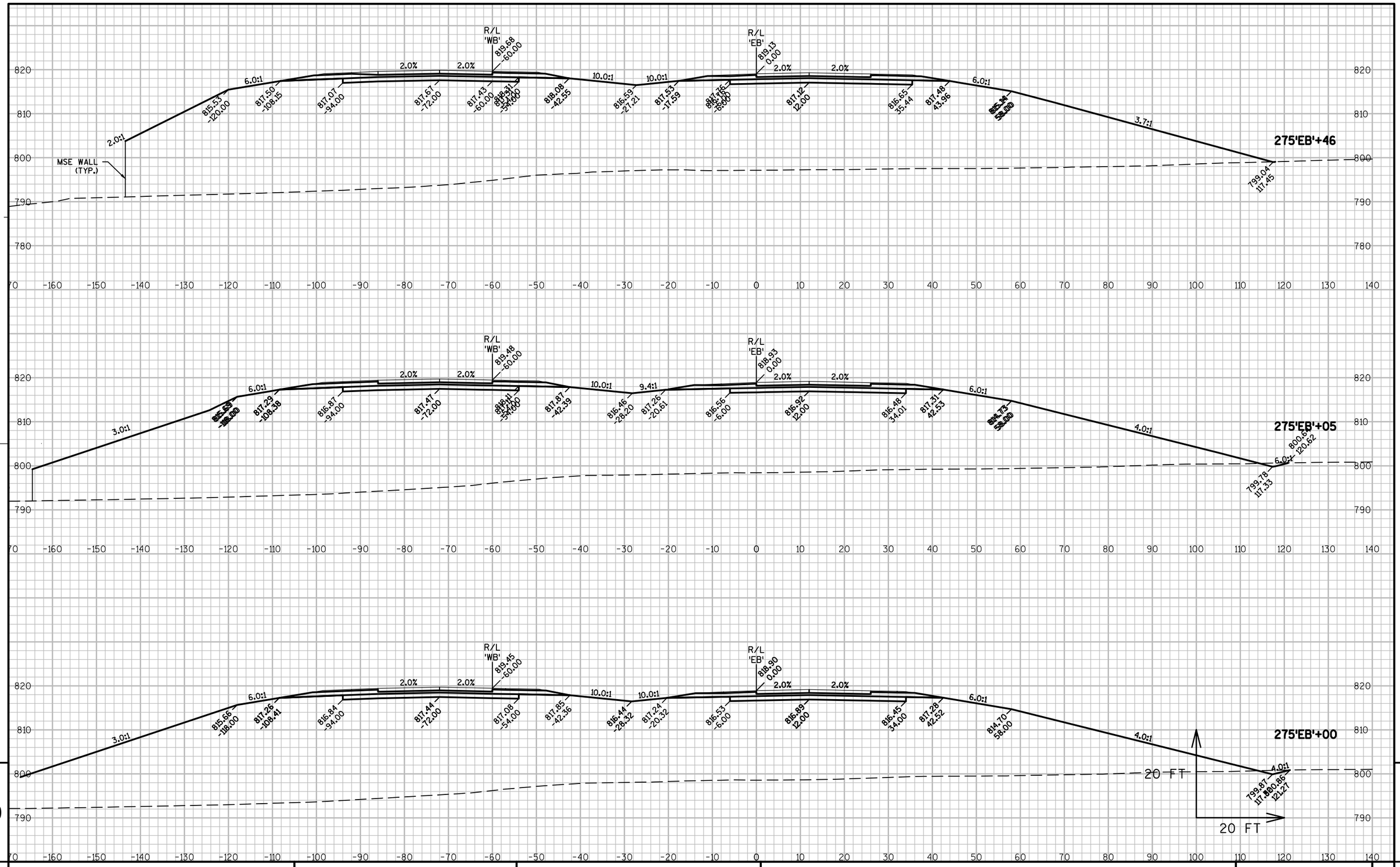
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	EARTH QUANTITIES	SHEET:	E

FILE NAME : N:\PDS\...\090100_ewpptx PLOT DATE : June 14, 1911 PLOT BY : A.R.H. PLOT NAME : PLOT SCALE : 1:1

NASH ST. – STH 15 STA 465+00

AL_15eb_bypass

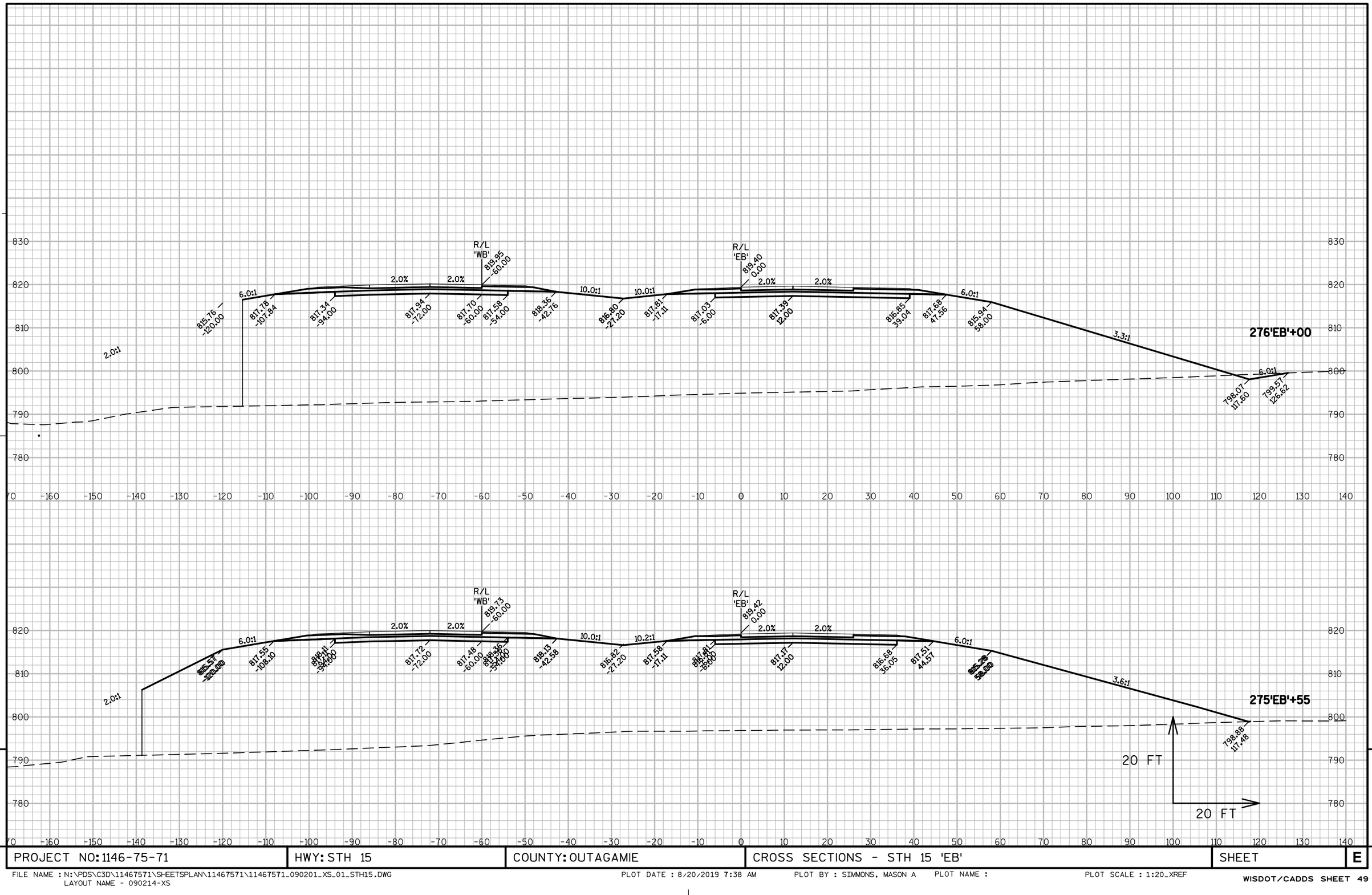
STATION	Real Station	Distance	AREA (SF)						Incremental Vol (CY) (Unadjusted)					
			Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS
464+50	46450.00	50.00	2050.92	0.00	0.00	0.00	0.00	0.00	3,556	0	0	0	0	0
465+00	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	21,530	0	21,670



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_01_STH15.DWG
LAYOUT NAME - 090213-XS

PLOT DATE : 8/20/2019 7:38 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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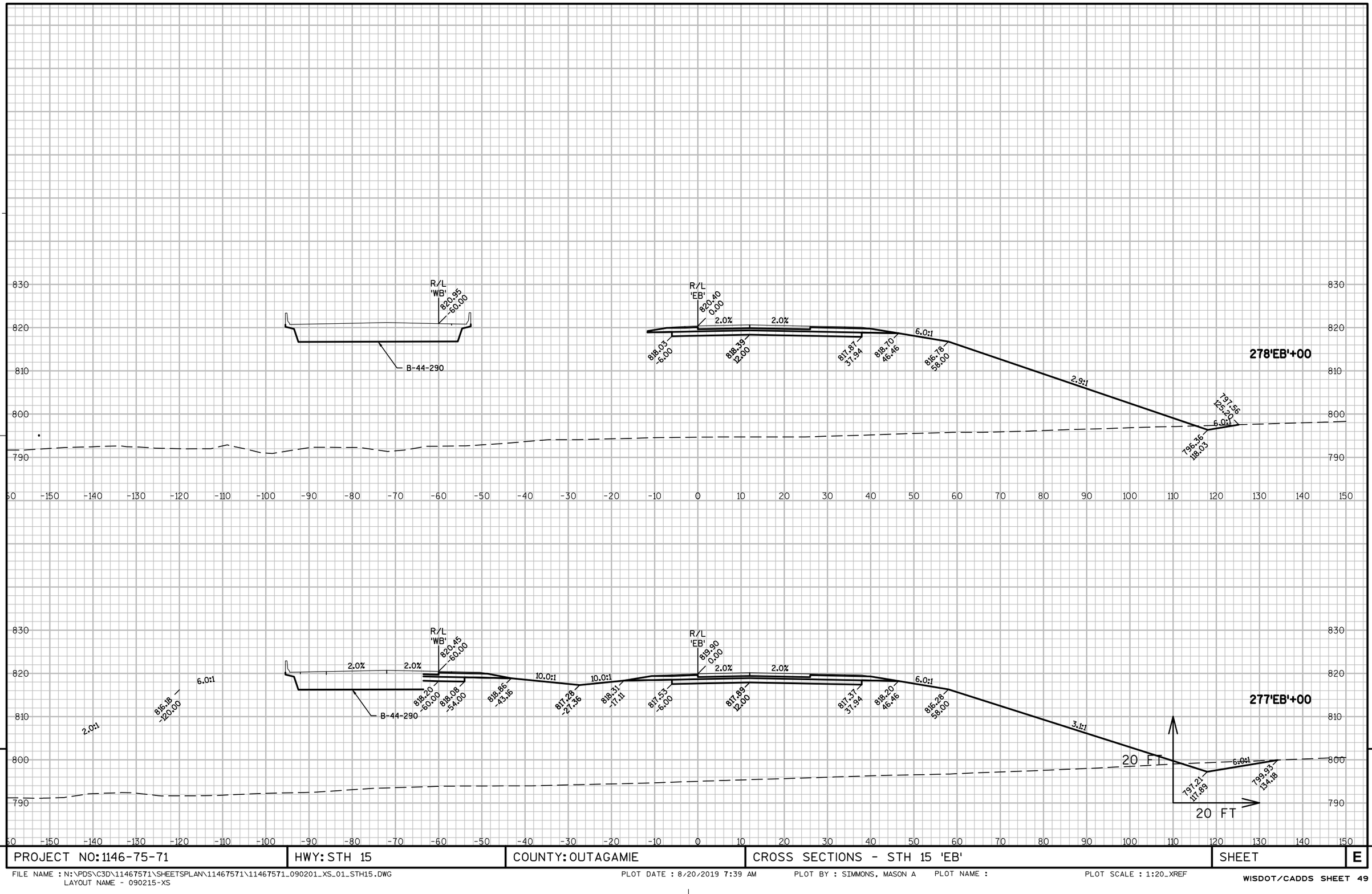
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_01_STH15.DWG
LAYOUT NAME - 090214-XS

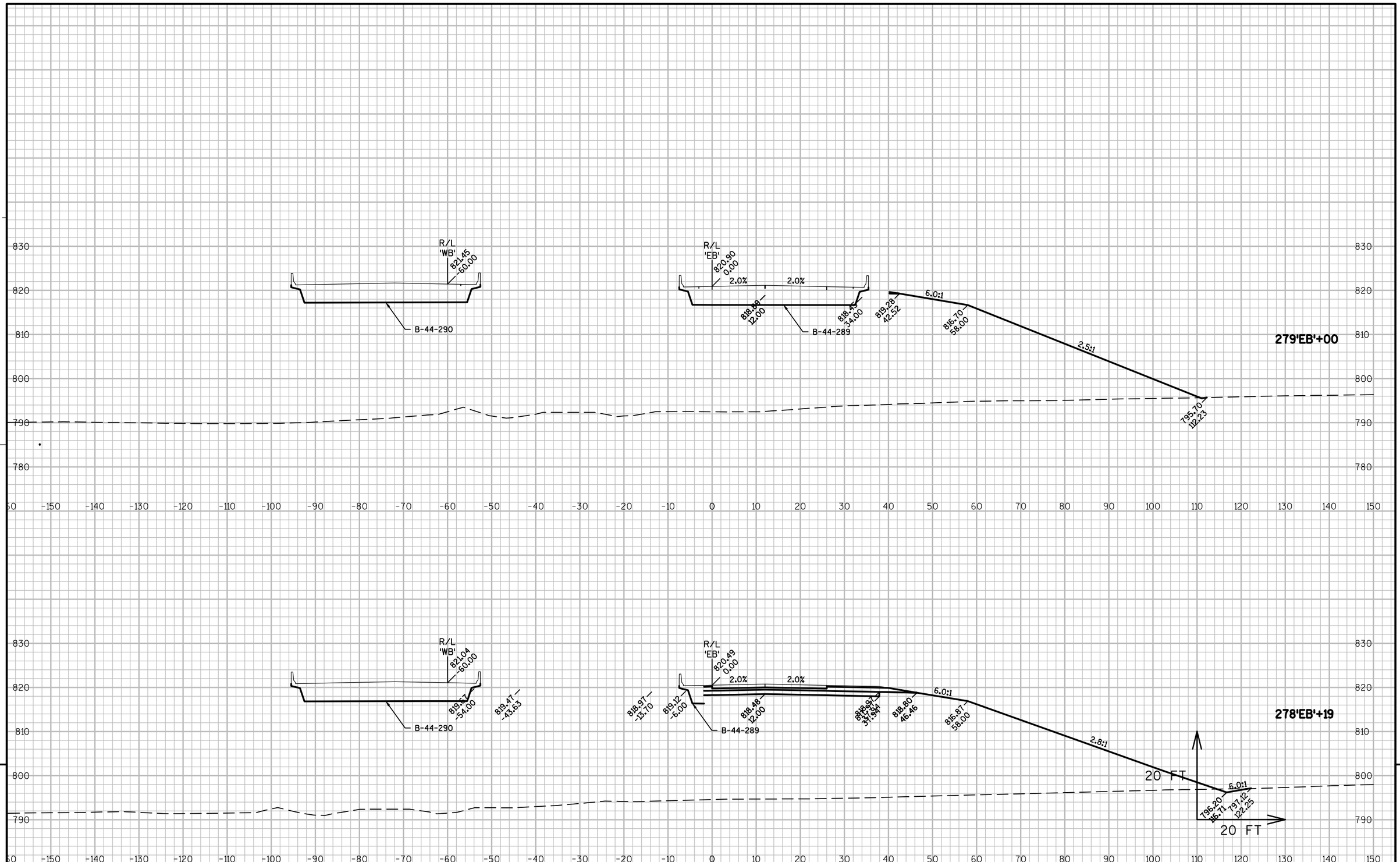
PLOT DATE : 8/20/2019 7:38 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_01_STH15.DWG
LAYOUT NAME - 090215-XS

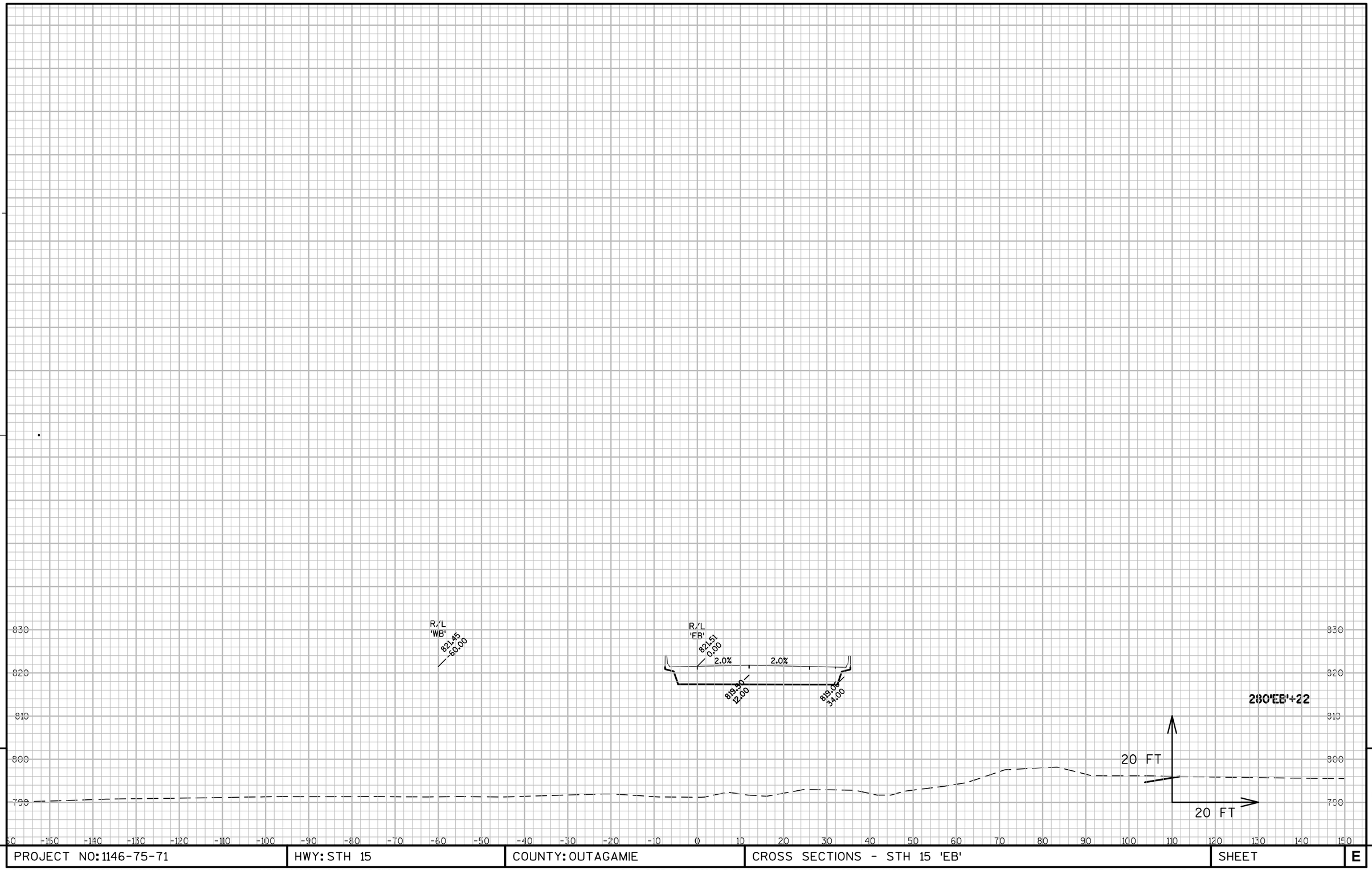
PLOT DATE : 8/20/2019 7:39 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_01_STH15.DWG
LAYOUT NAME - 090216-XS

PLOT DATE : 8/20/2019 7:39 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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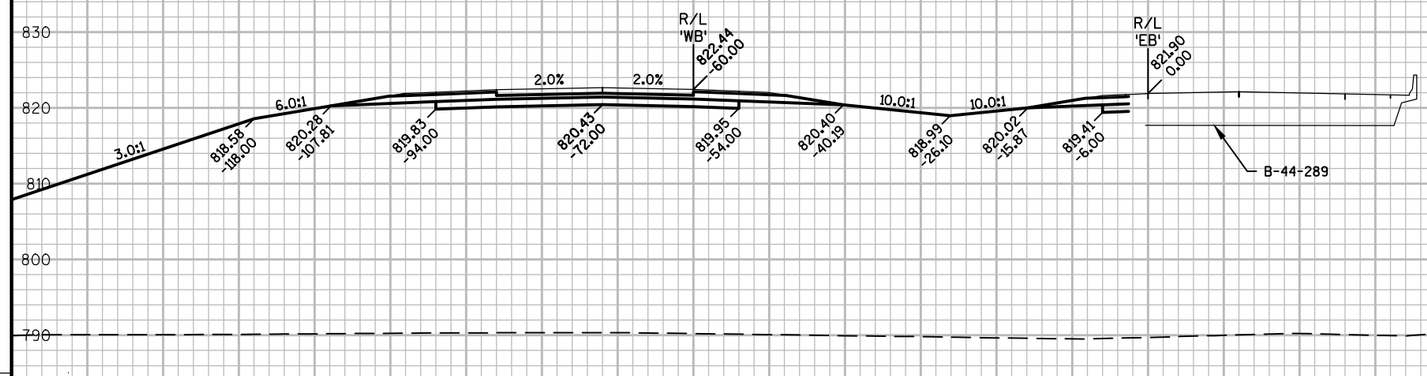
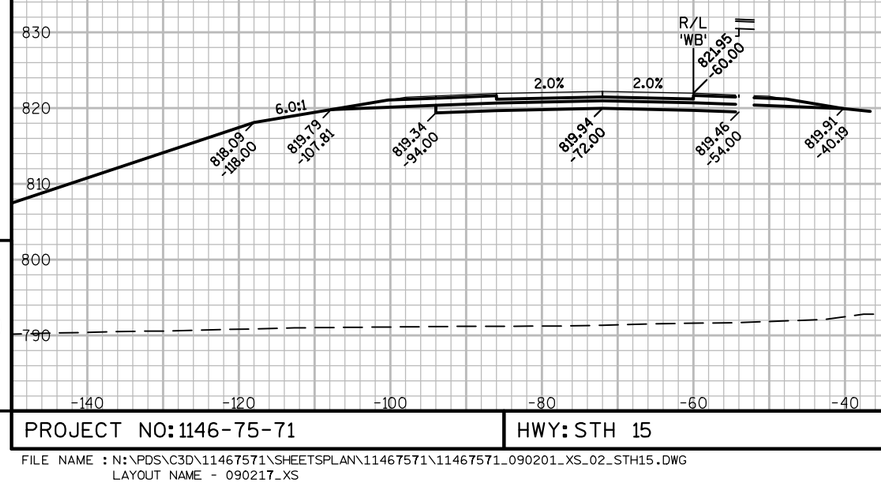
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_01_STH15.DWG
LAYOUT NAME - 090217-XS

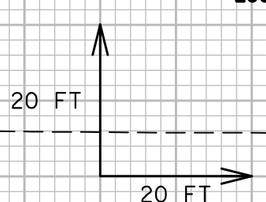
PLOT DATE : 8/20/2019 7:39 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



281'EB'+00



280'EB'+00



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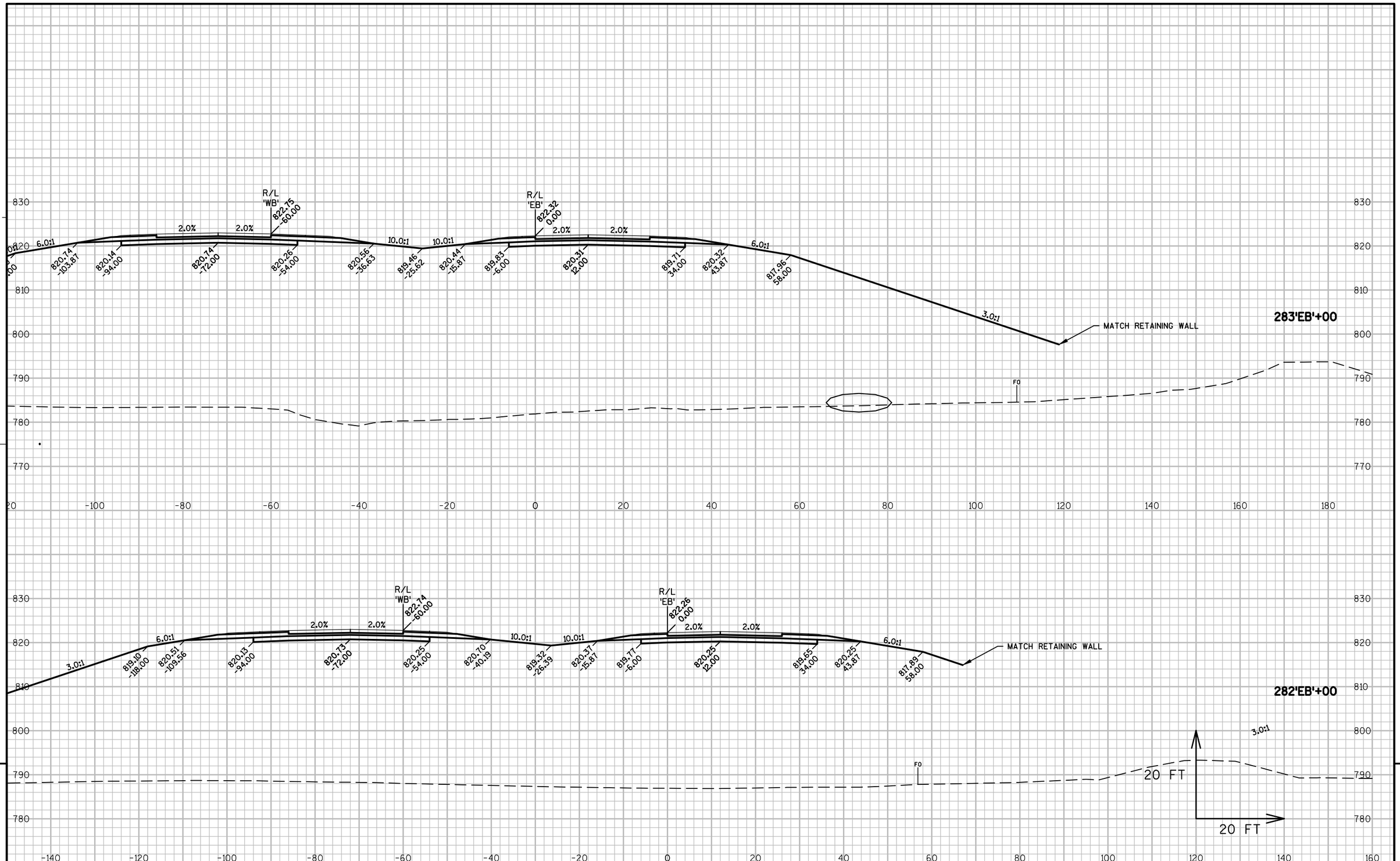
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090217_XS

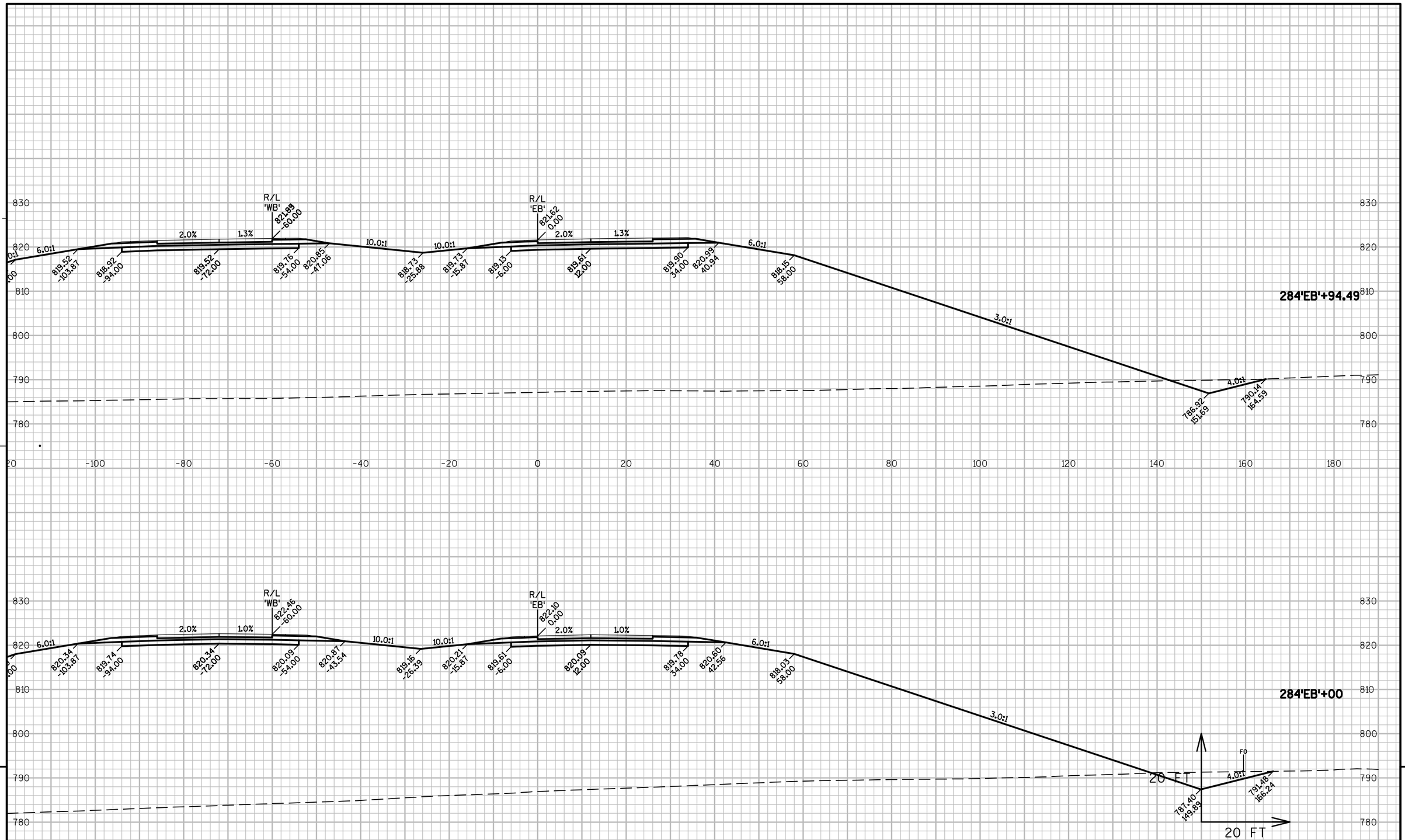
PLOT DATE : 8/20/2019 8:01 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090218_XS

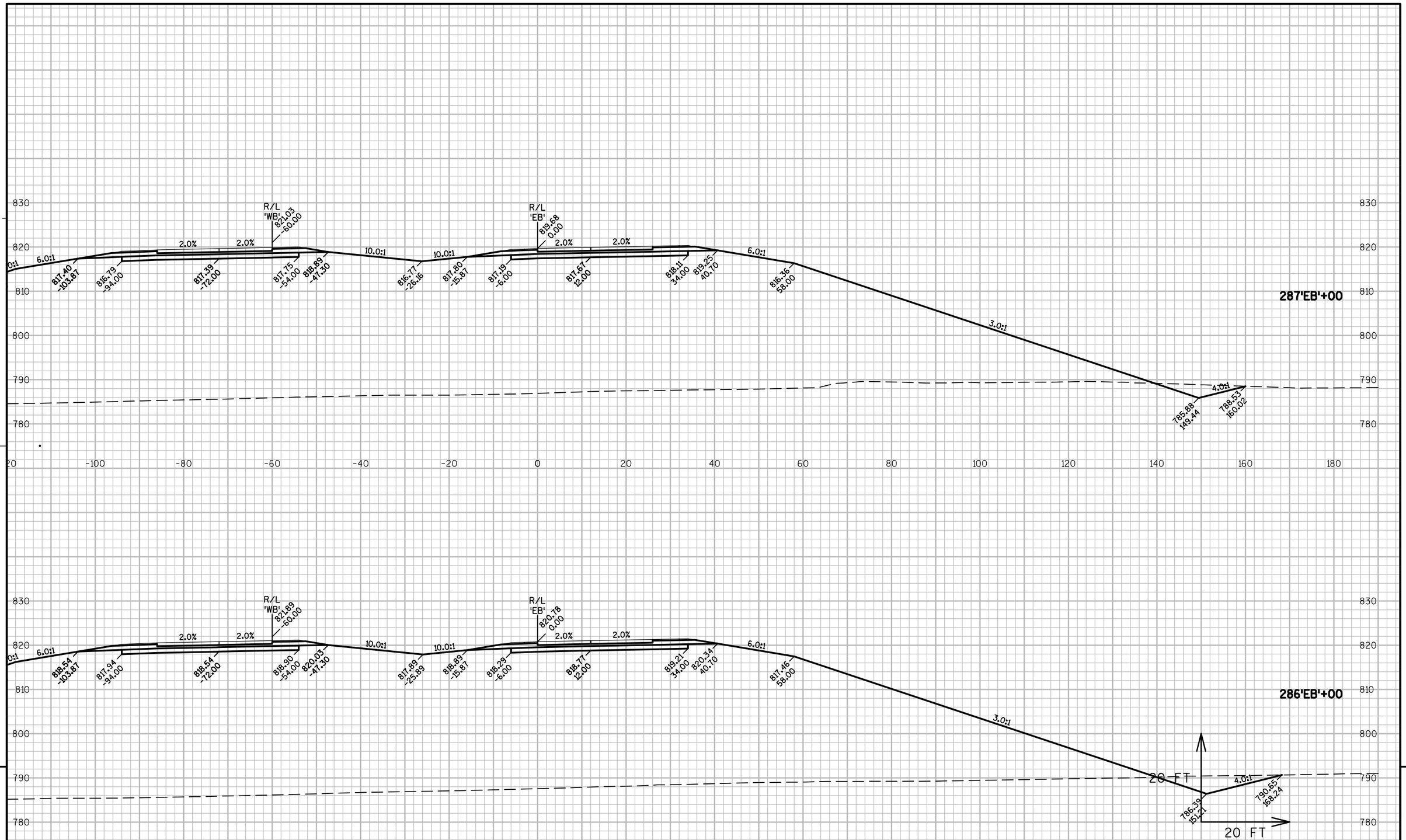
PLOT DATE : 8/20/2019 8:01 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090219_XS

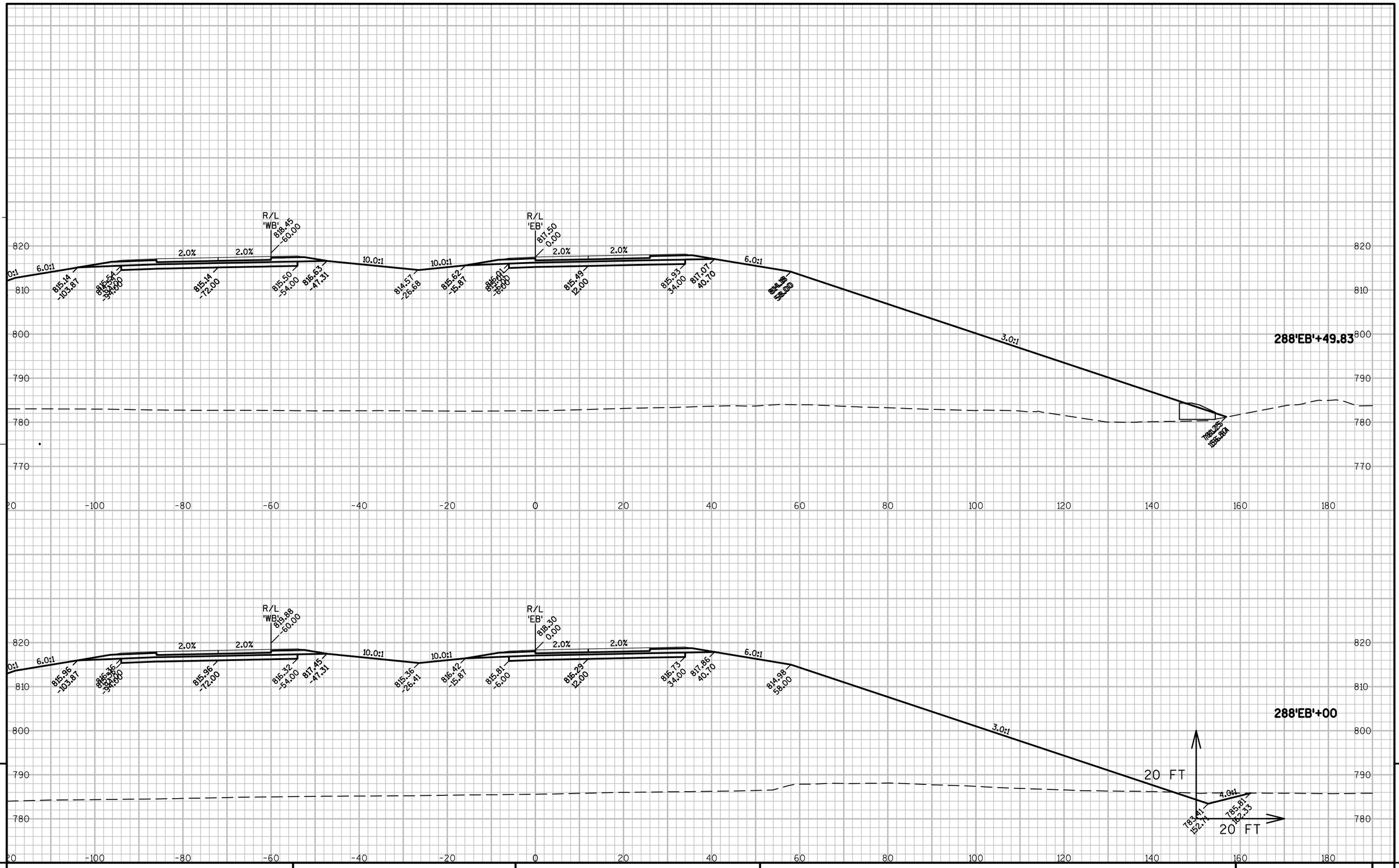
PLOT DATE : 8/20/2019 8:01 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090220_XS

PLOT DATE : 8/20/2019 8:01 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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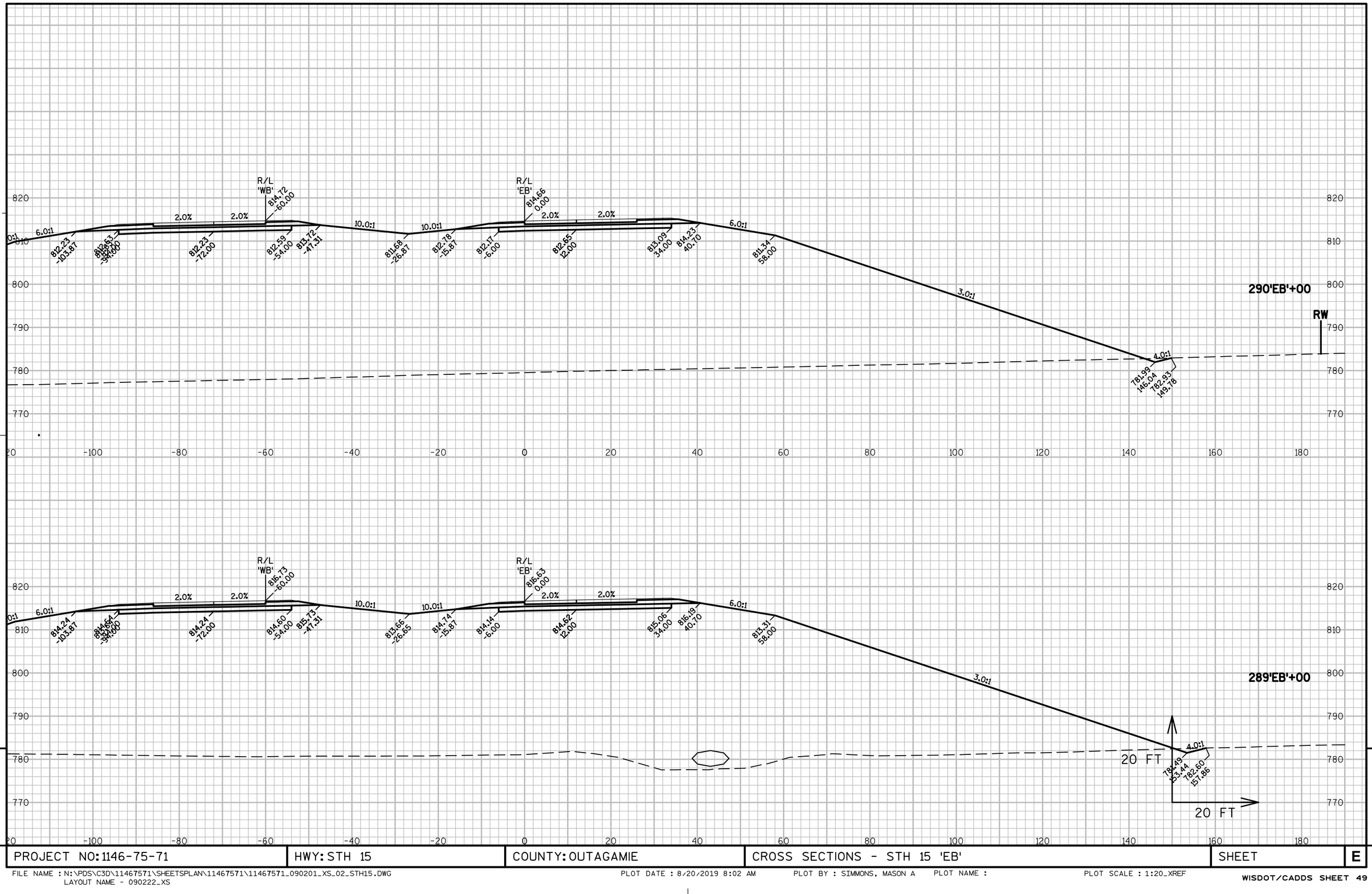
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

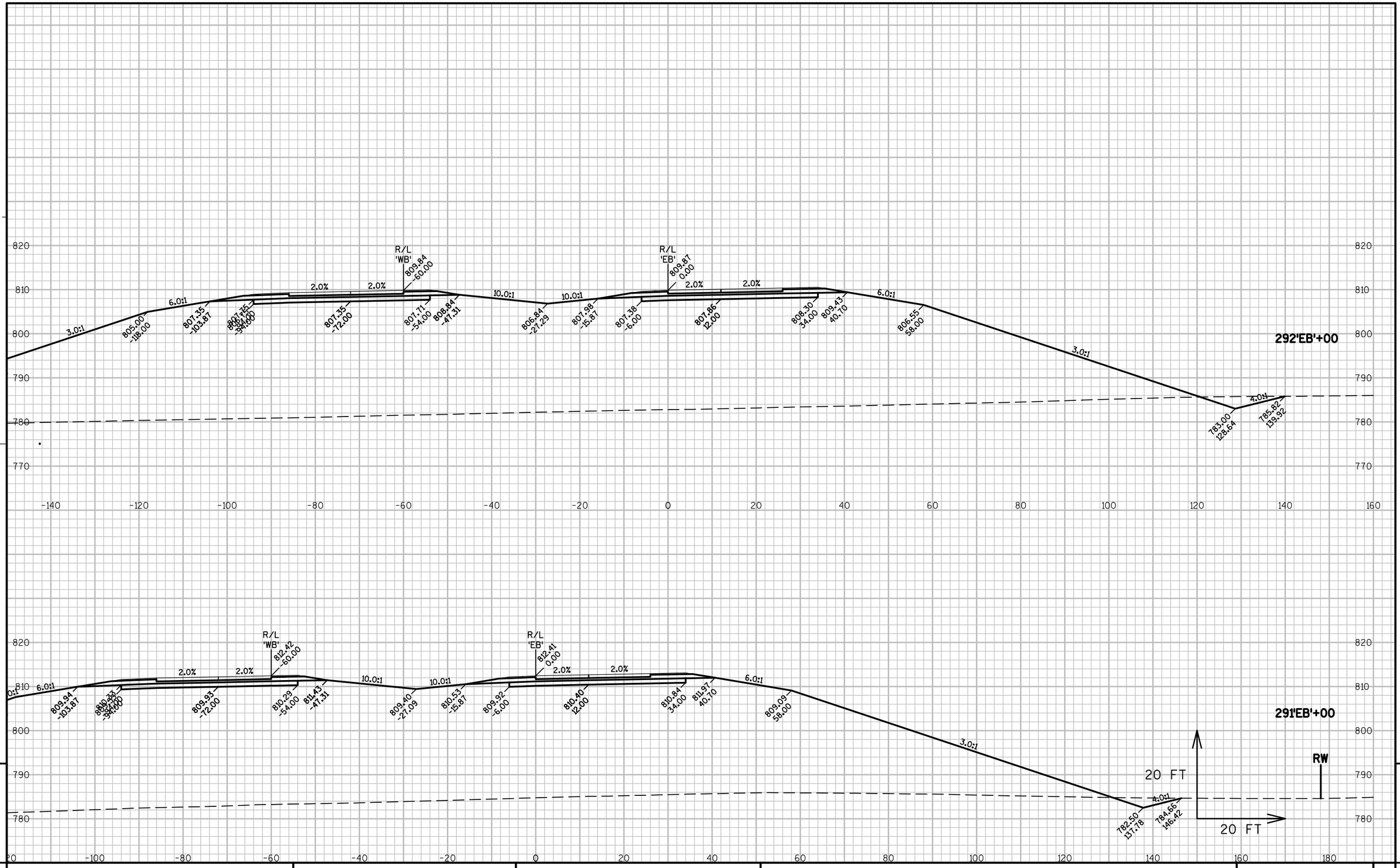
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090221_XS

PLOT DATE : 8/20/2019 8:01 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	E

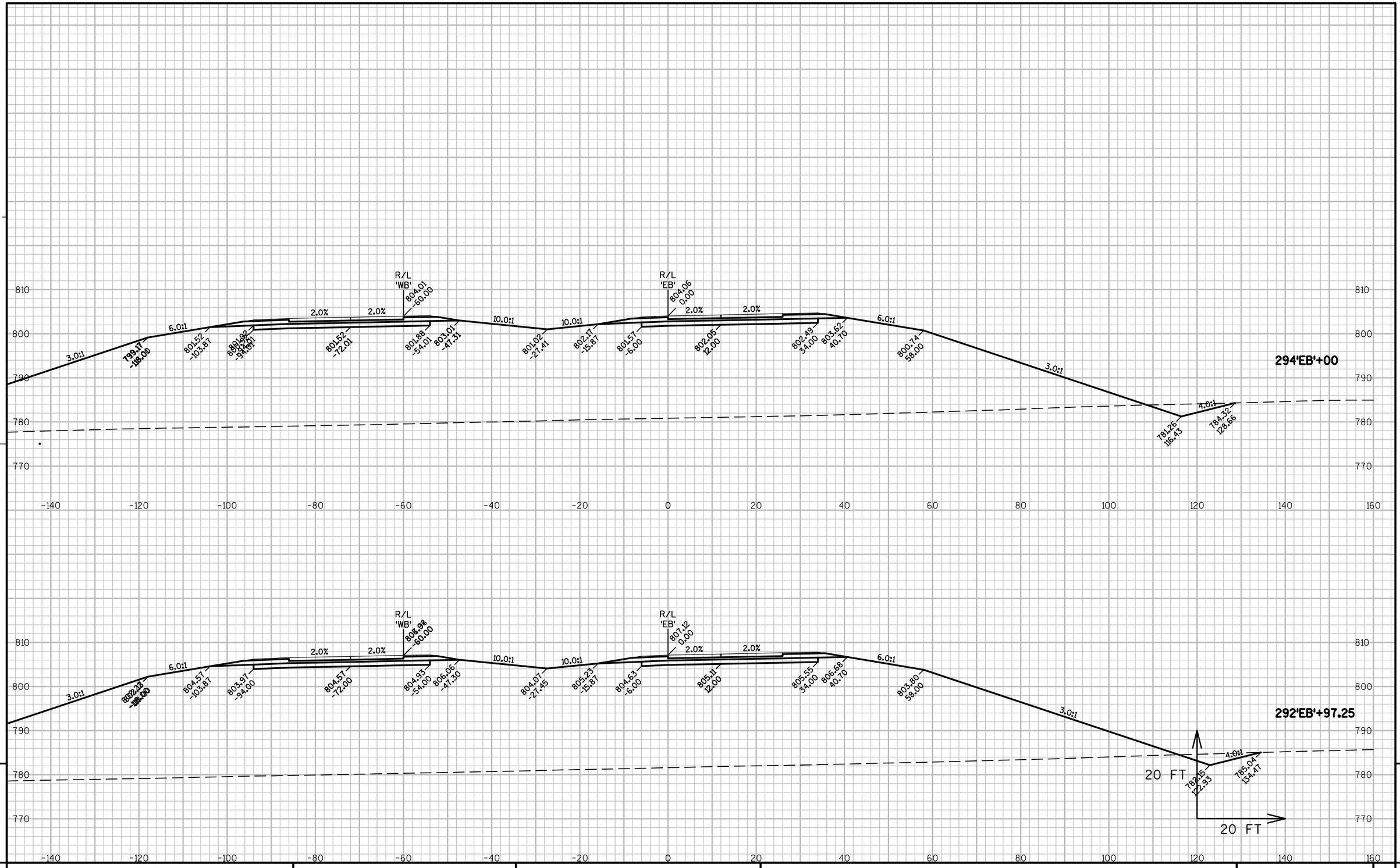
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090222_XS
PLOT DATE : 8/20/2019 8:02 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090223_XS

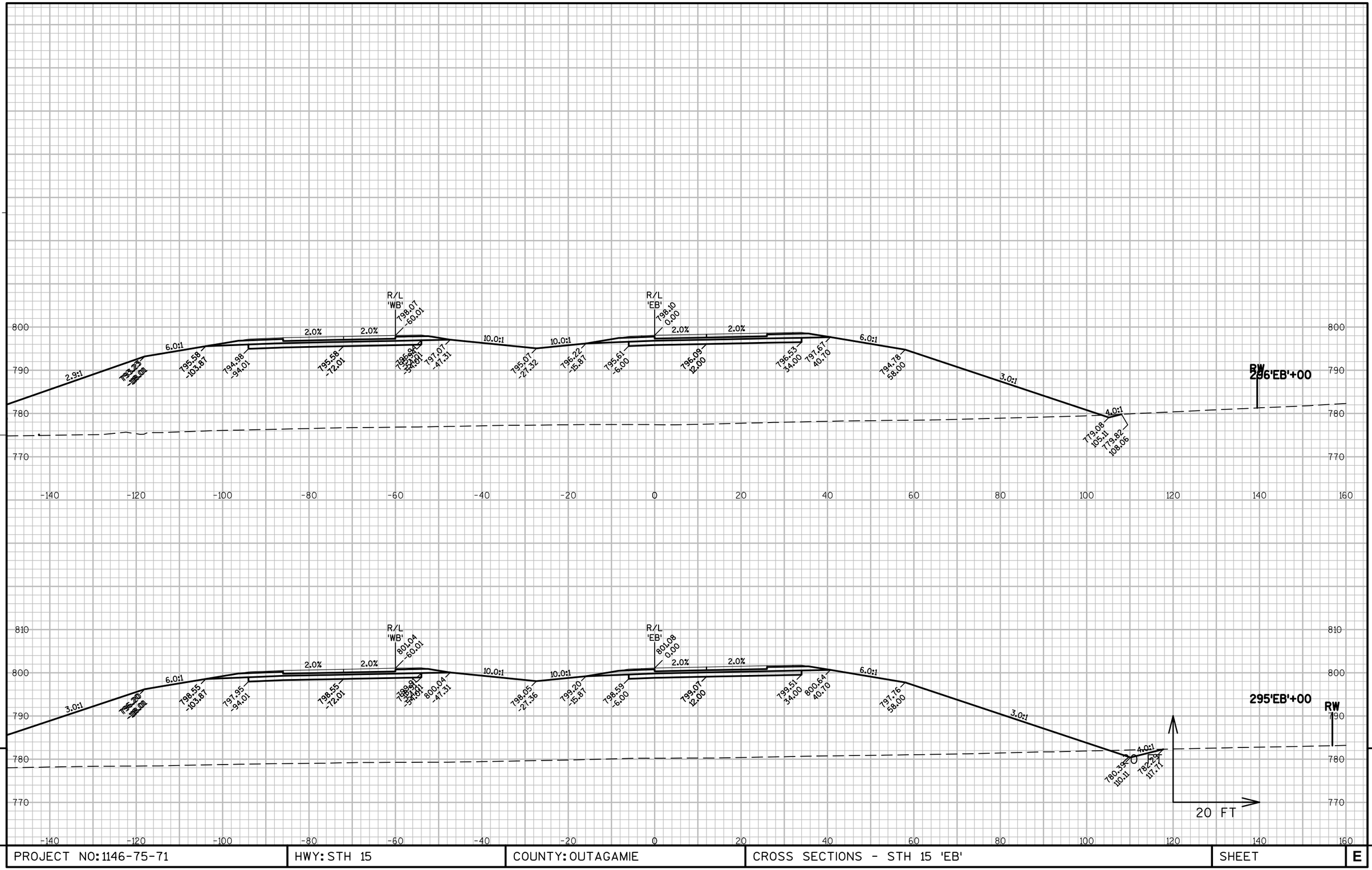
PLOT DATE : 8/20/2019 8:02 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090224_XS

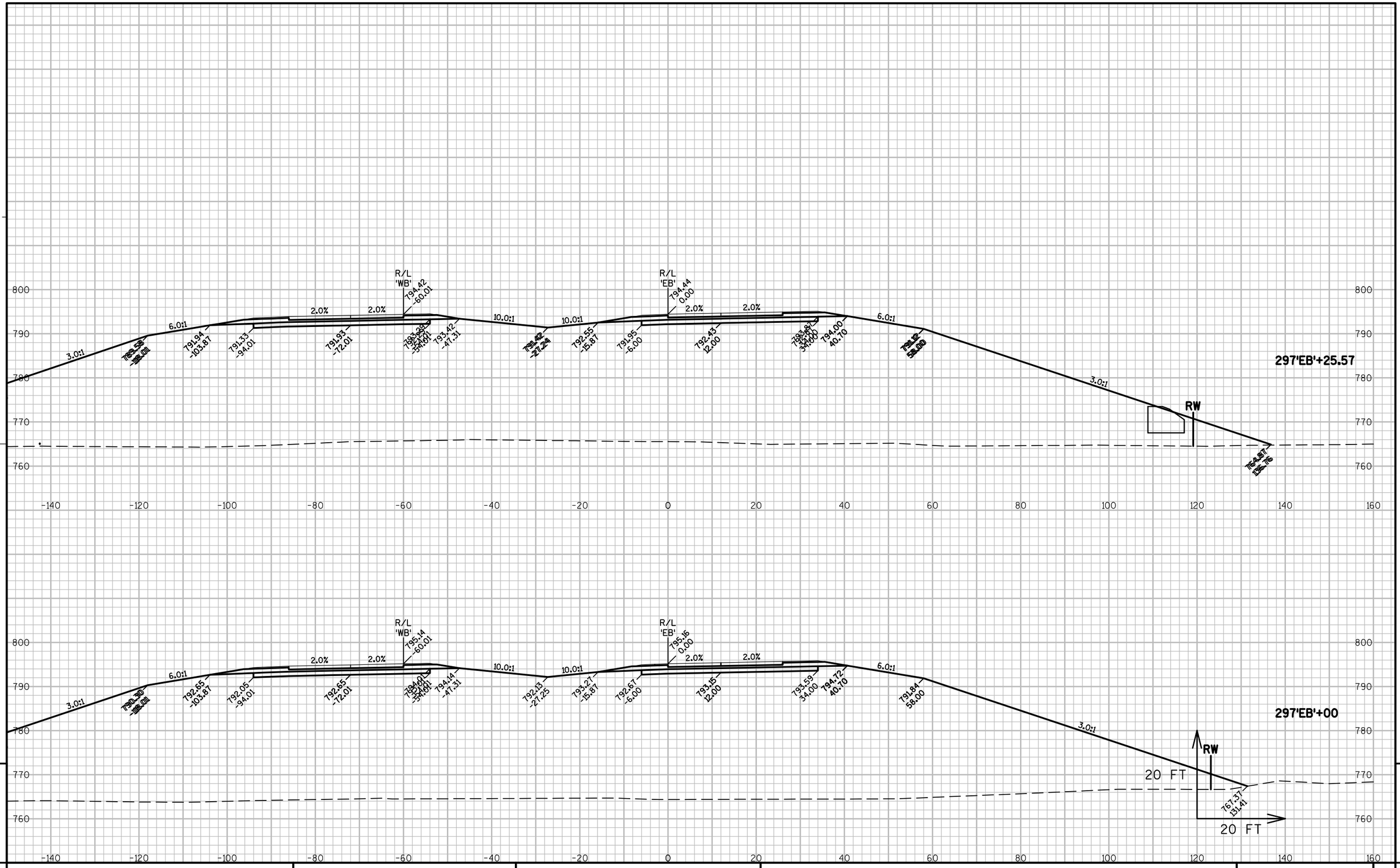
PLOT DATE : 8/20/2019 8:02 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

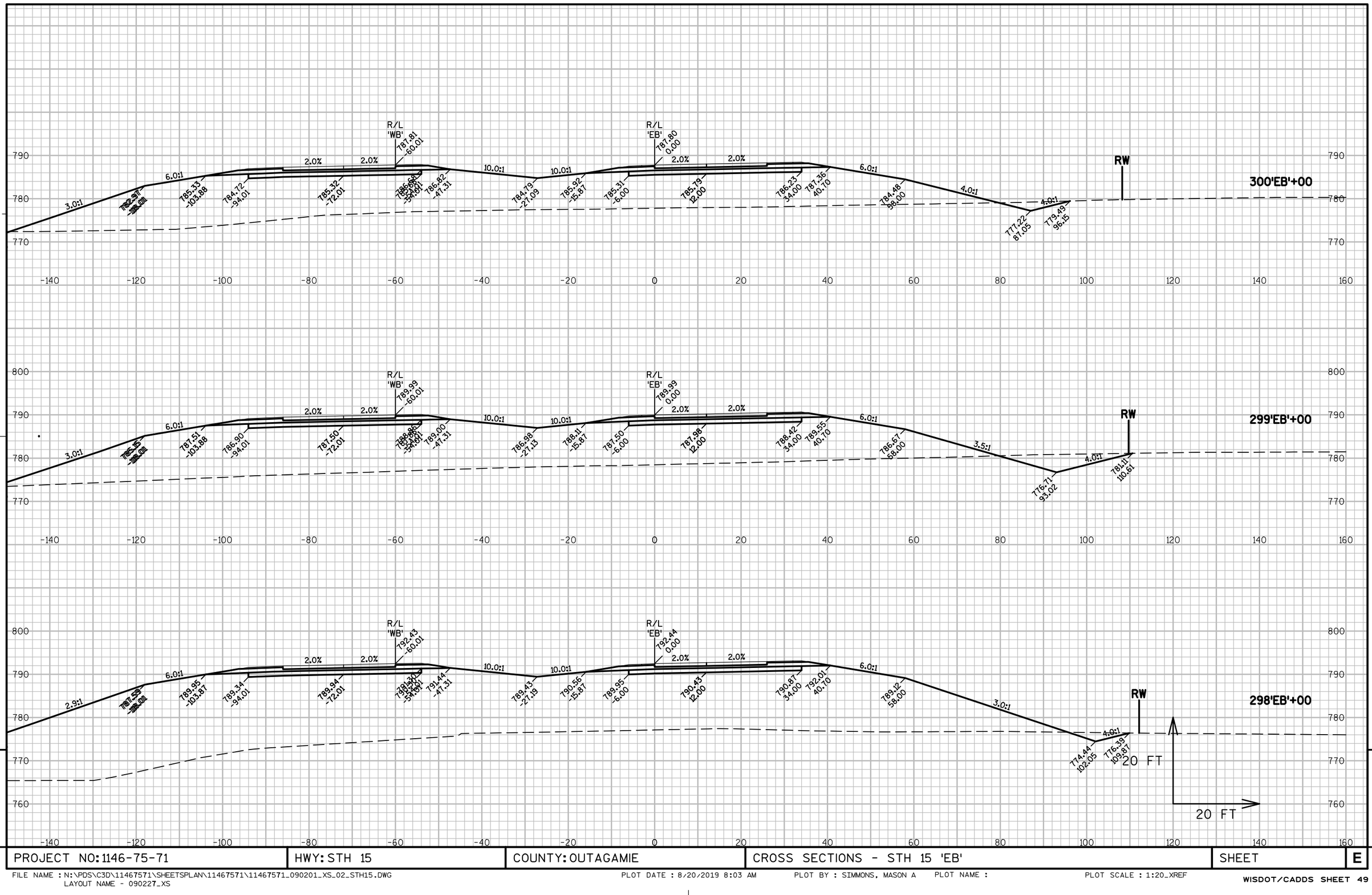
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090225_XS

PLOT DATE : 8/20/2019 8:02 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090226_XS
PLOT DATE : 8/20/2019 8:03 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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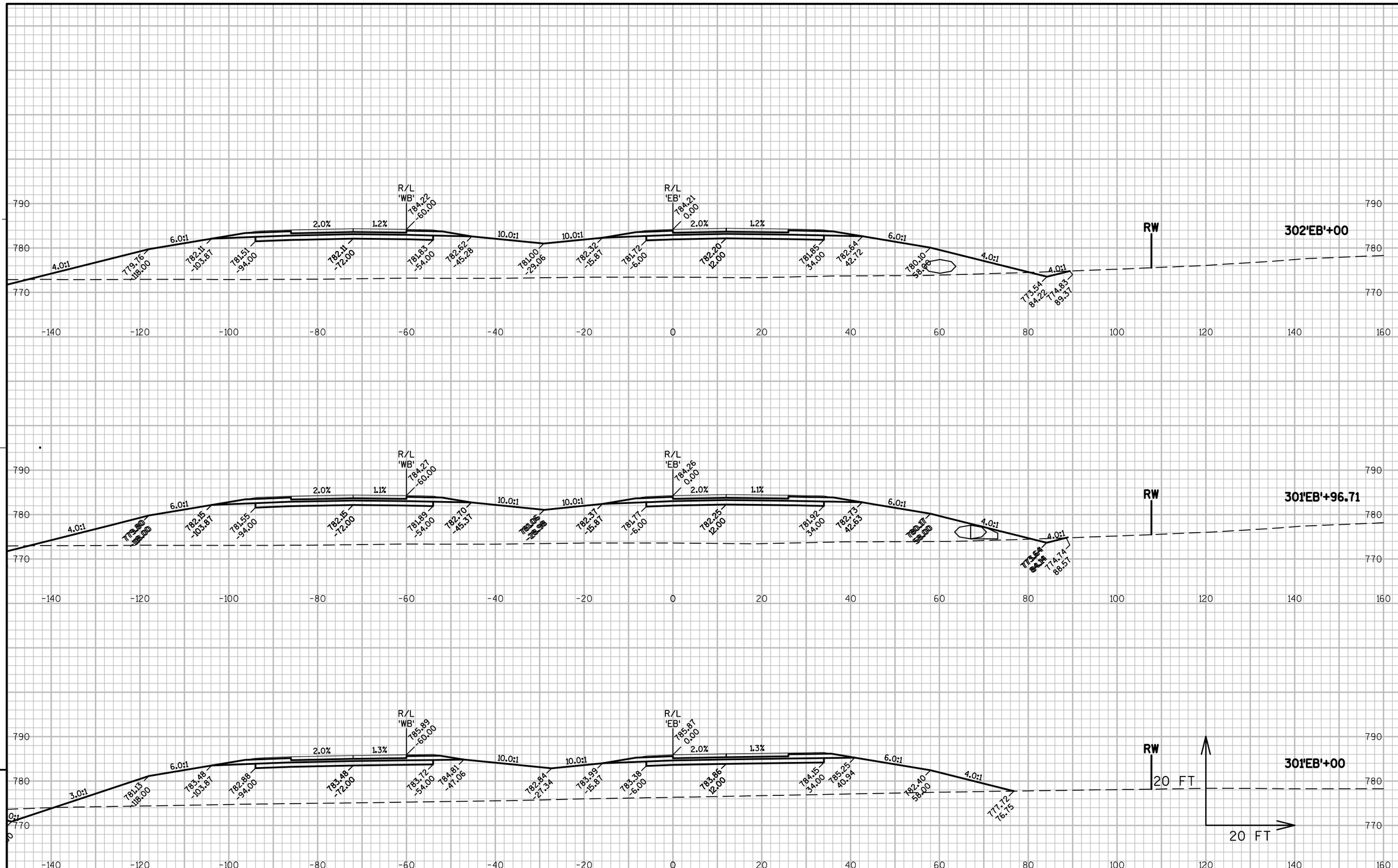
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090227_XS
PLOT DATE : 8/20/2019 8:03 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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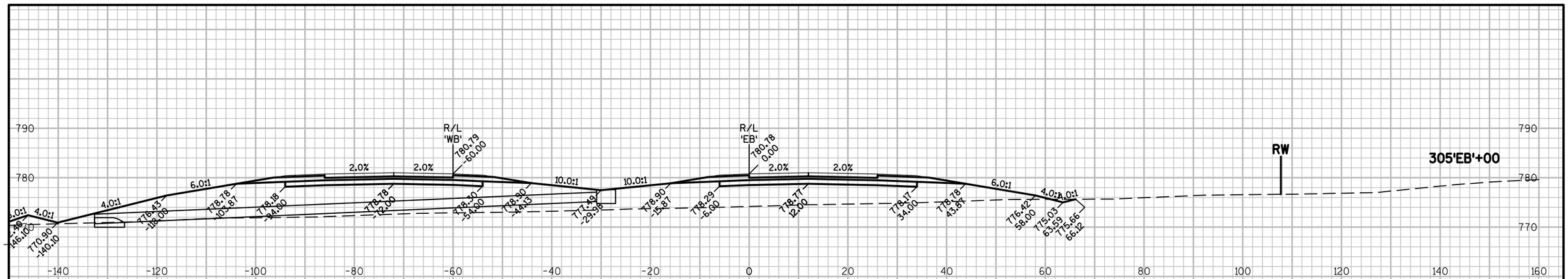
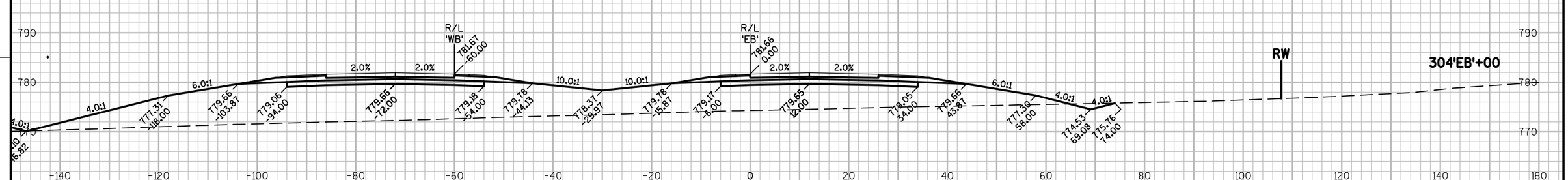
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

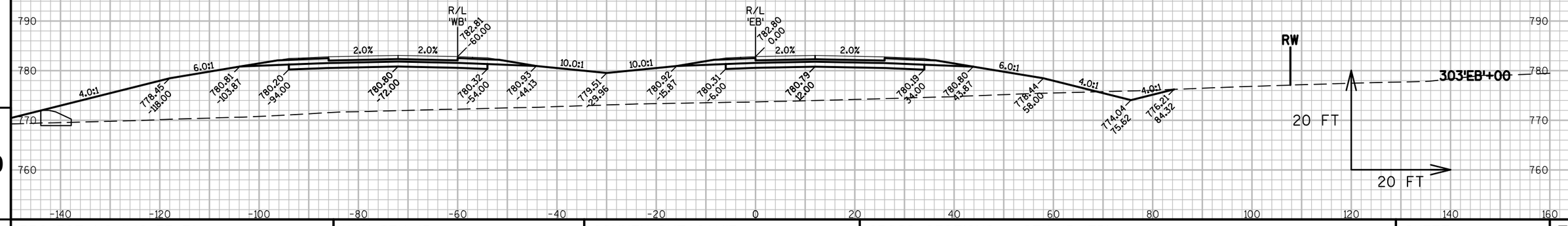
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090228_XS

PLOT DATE : 8/20/2019 8:03 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090229_XS

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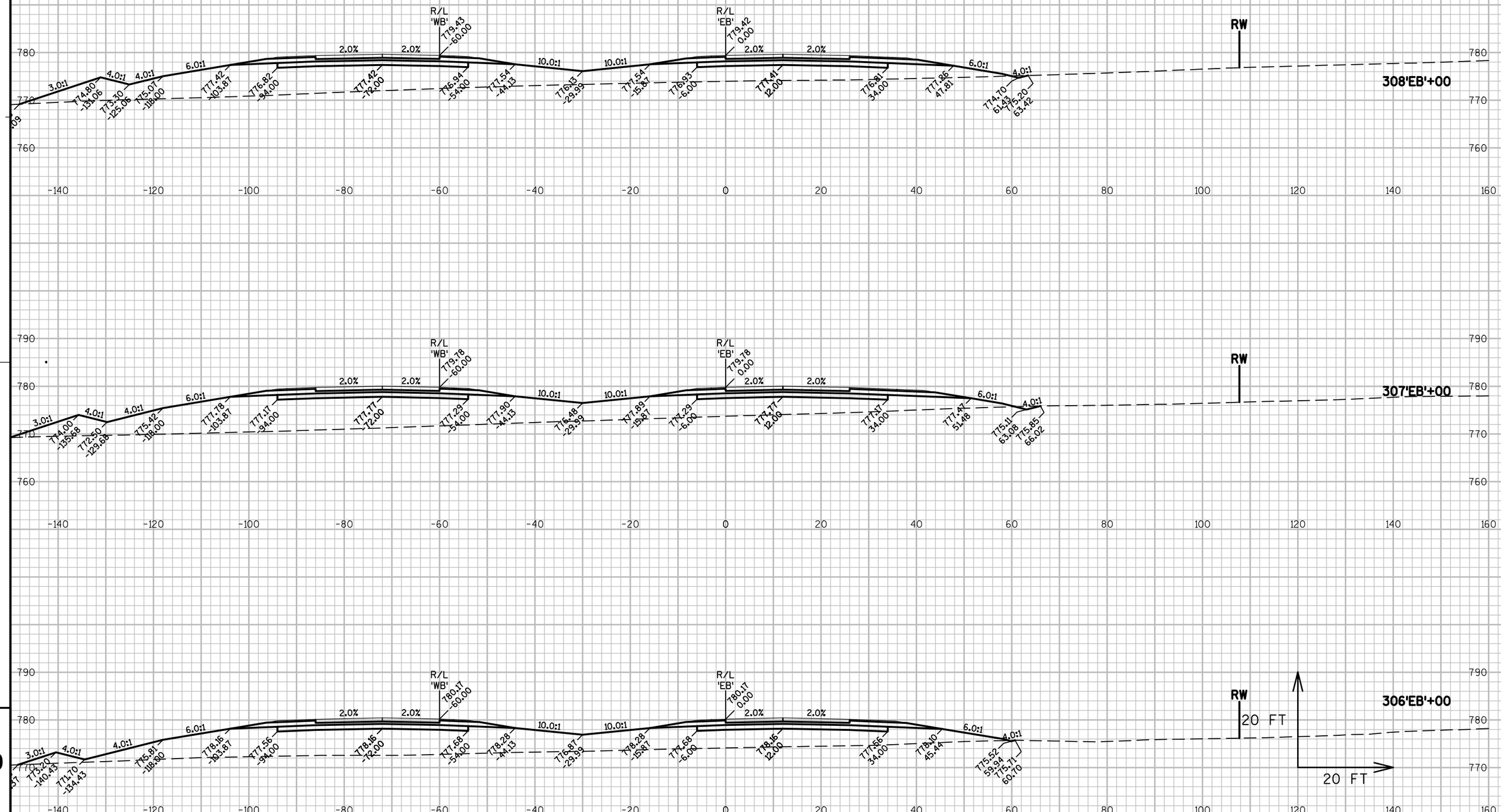

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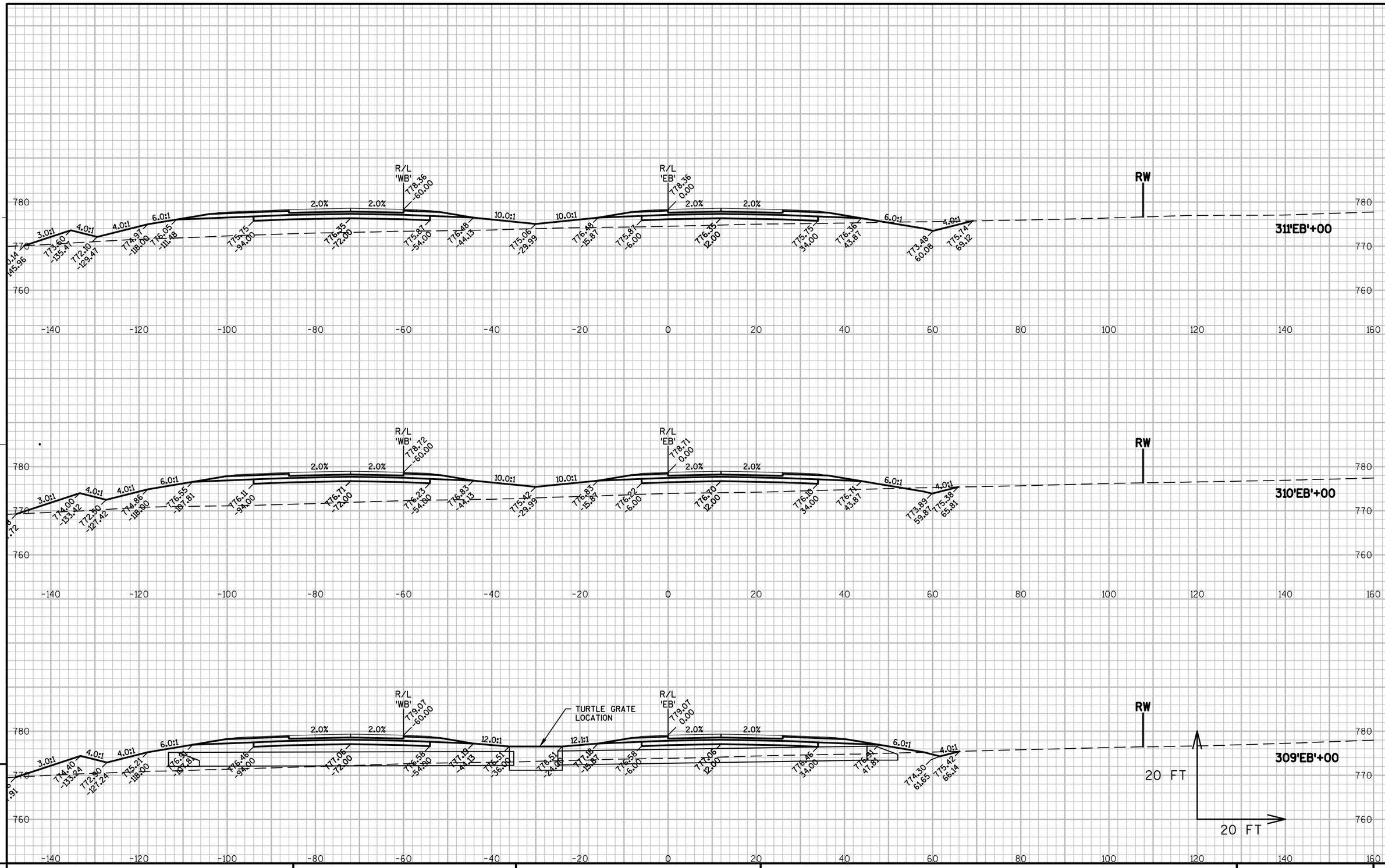
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

9

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090230_XS

PLOT DATE : 8/20/2019 8:03 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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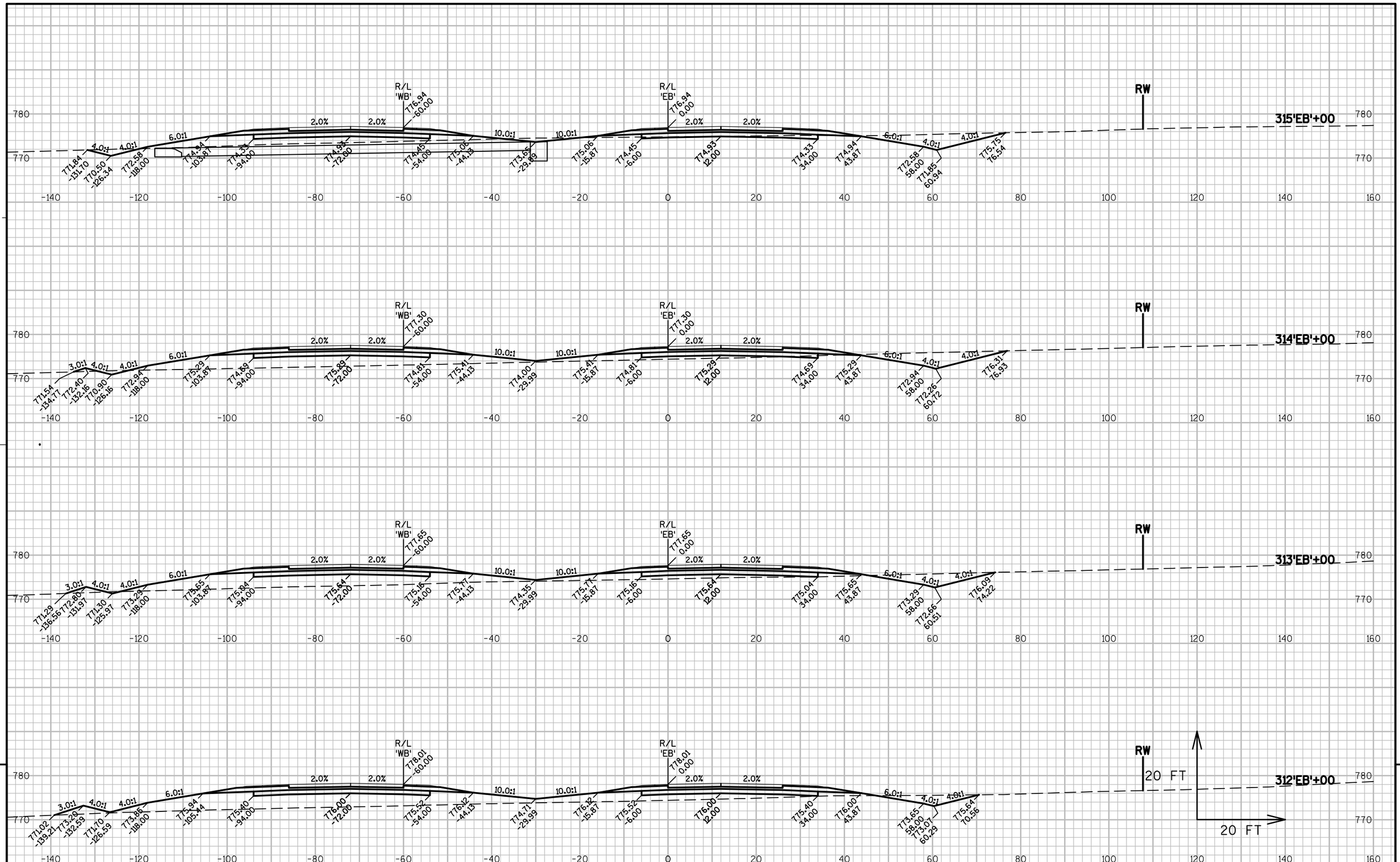
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090231_XS

PLOT DATE : 8/20/2019 8:04 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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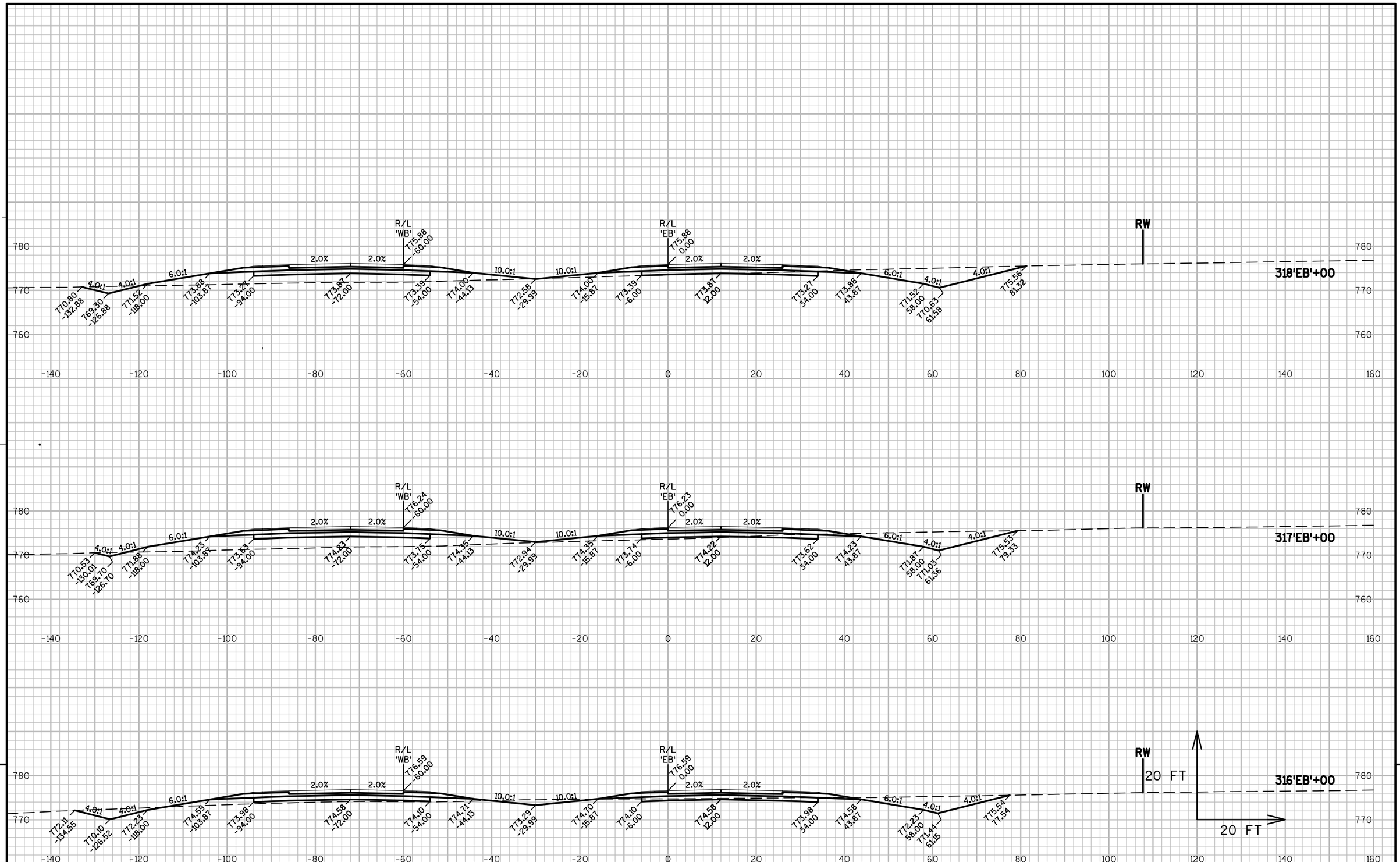
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090232_XS
PLOT DATE : 8/20/2019 8:04 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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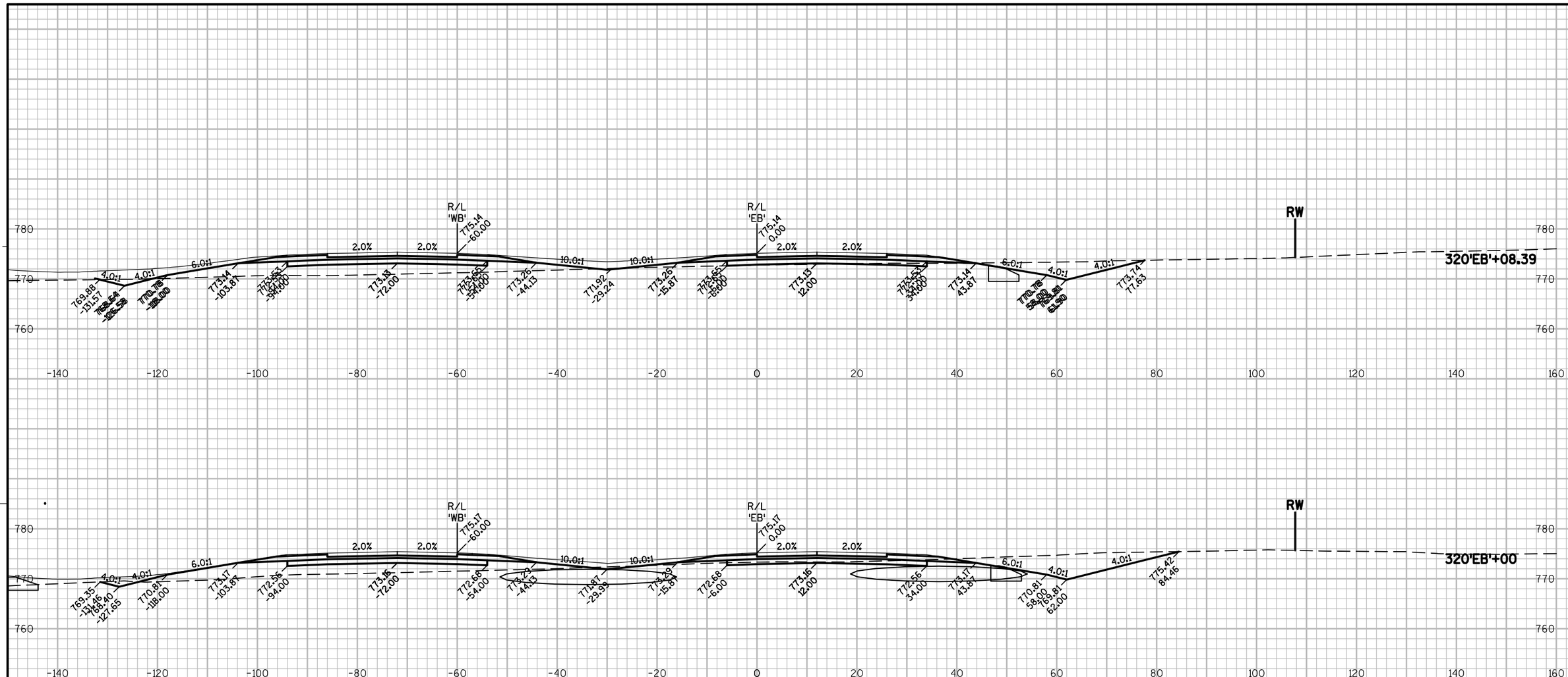
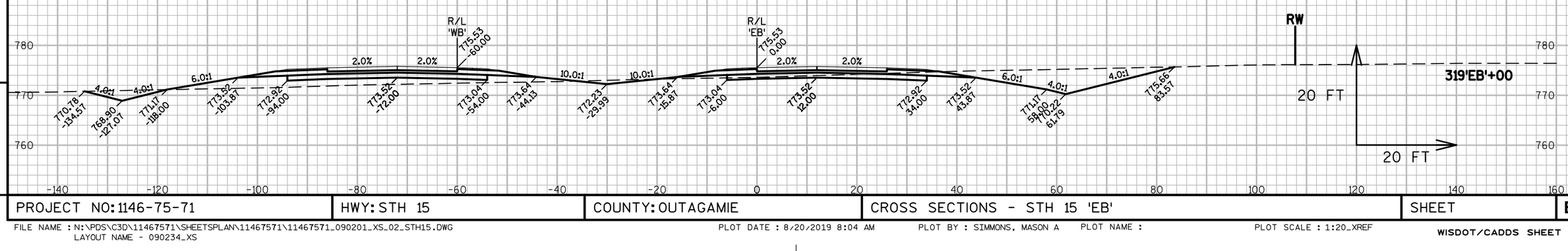
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090233_XS

PLOT DATE : 8/20/2019 8:04 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF





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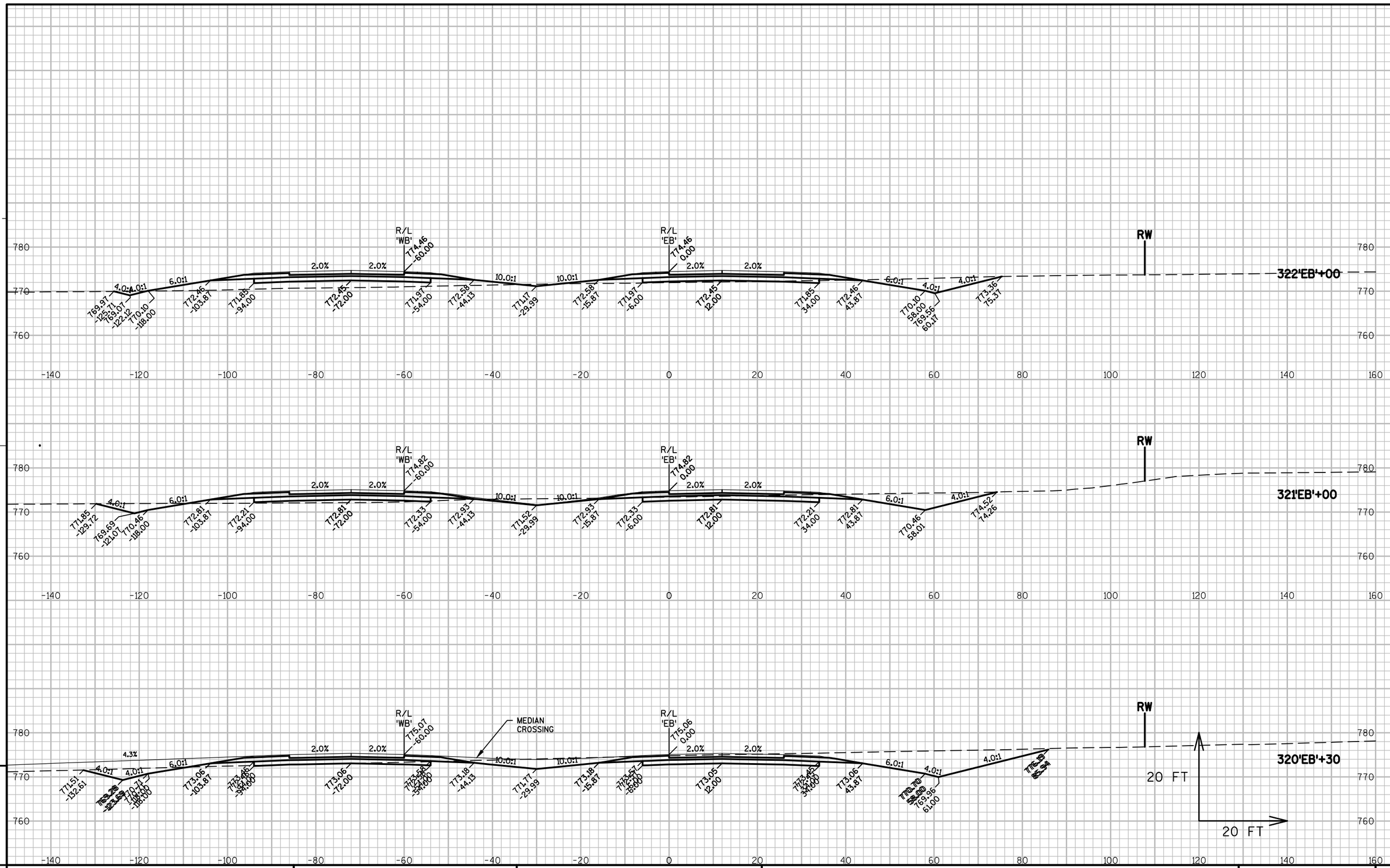
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090234_XS

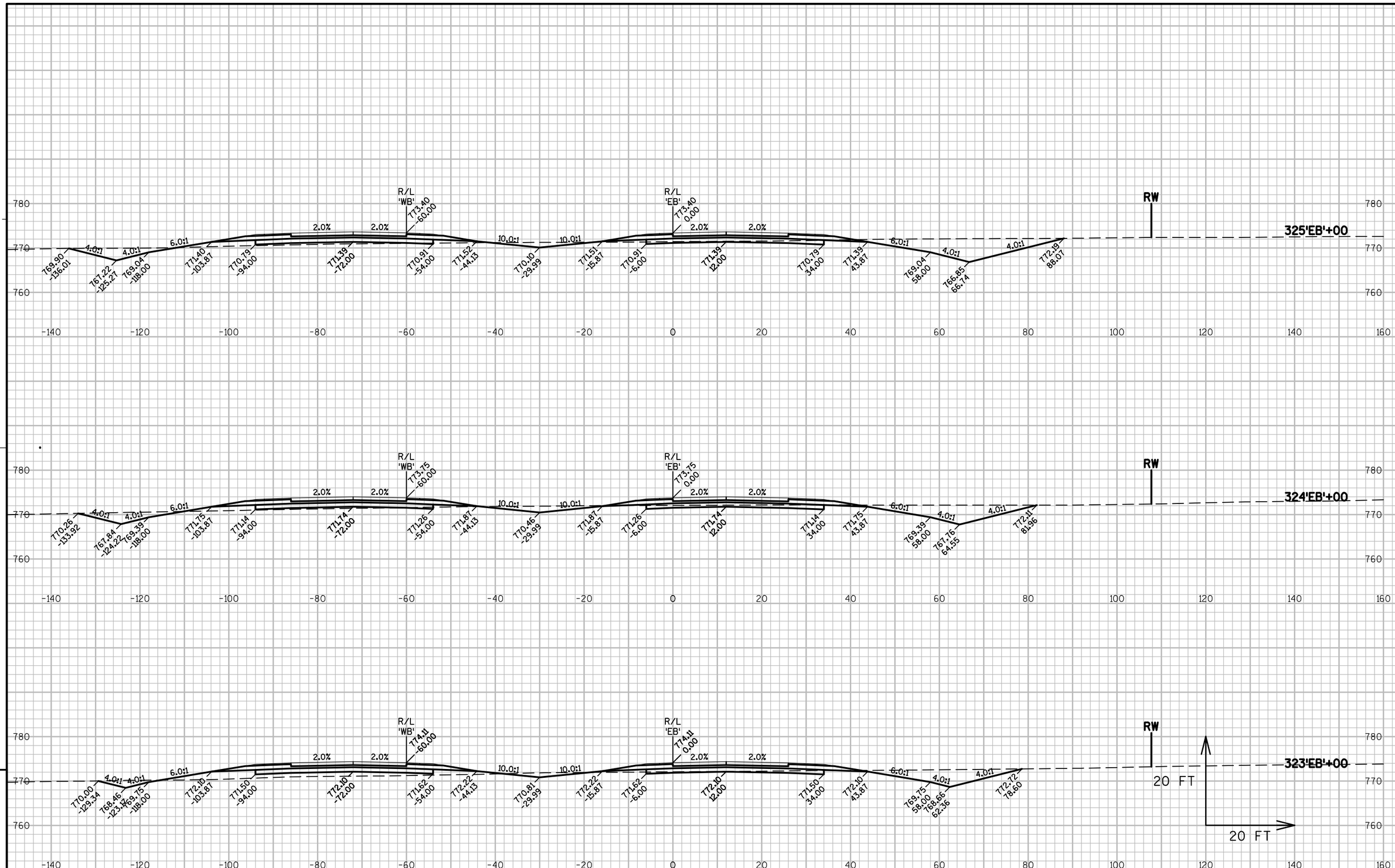
PLOT DATE : 8/20/2019 8:04 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090235_XS

PLOT DATE : 8/20/2019 8:05 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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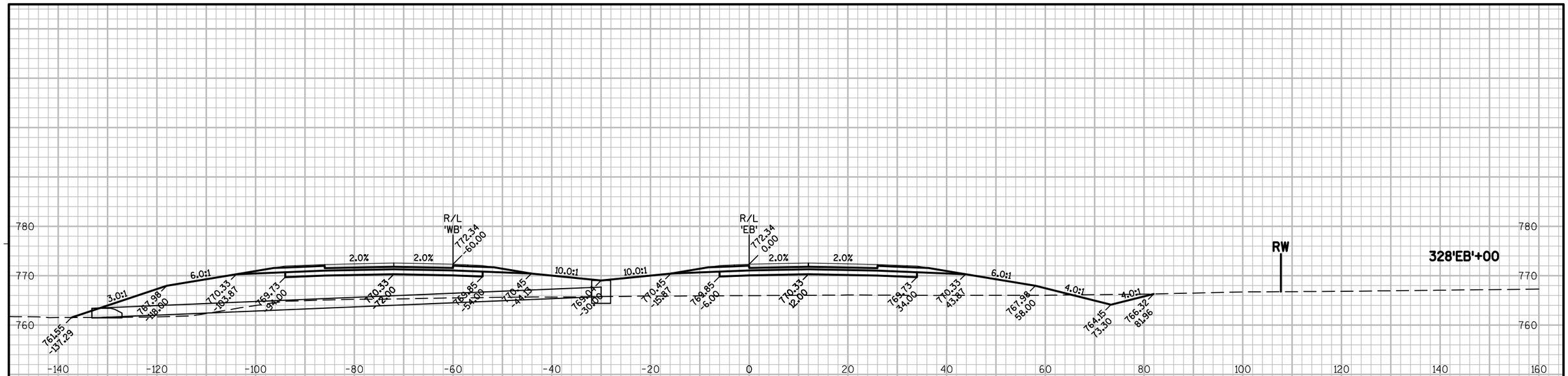
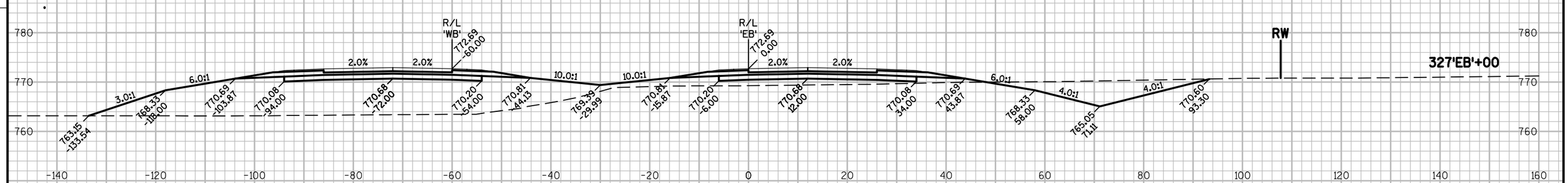
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

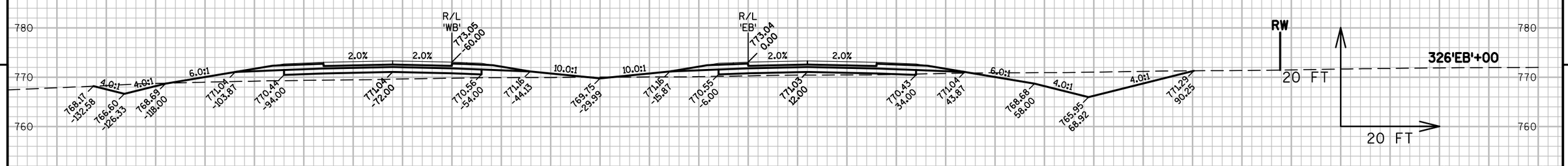
9

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090236_XS

PLOT DATE : 8/20/2019 8:05 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF







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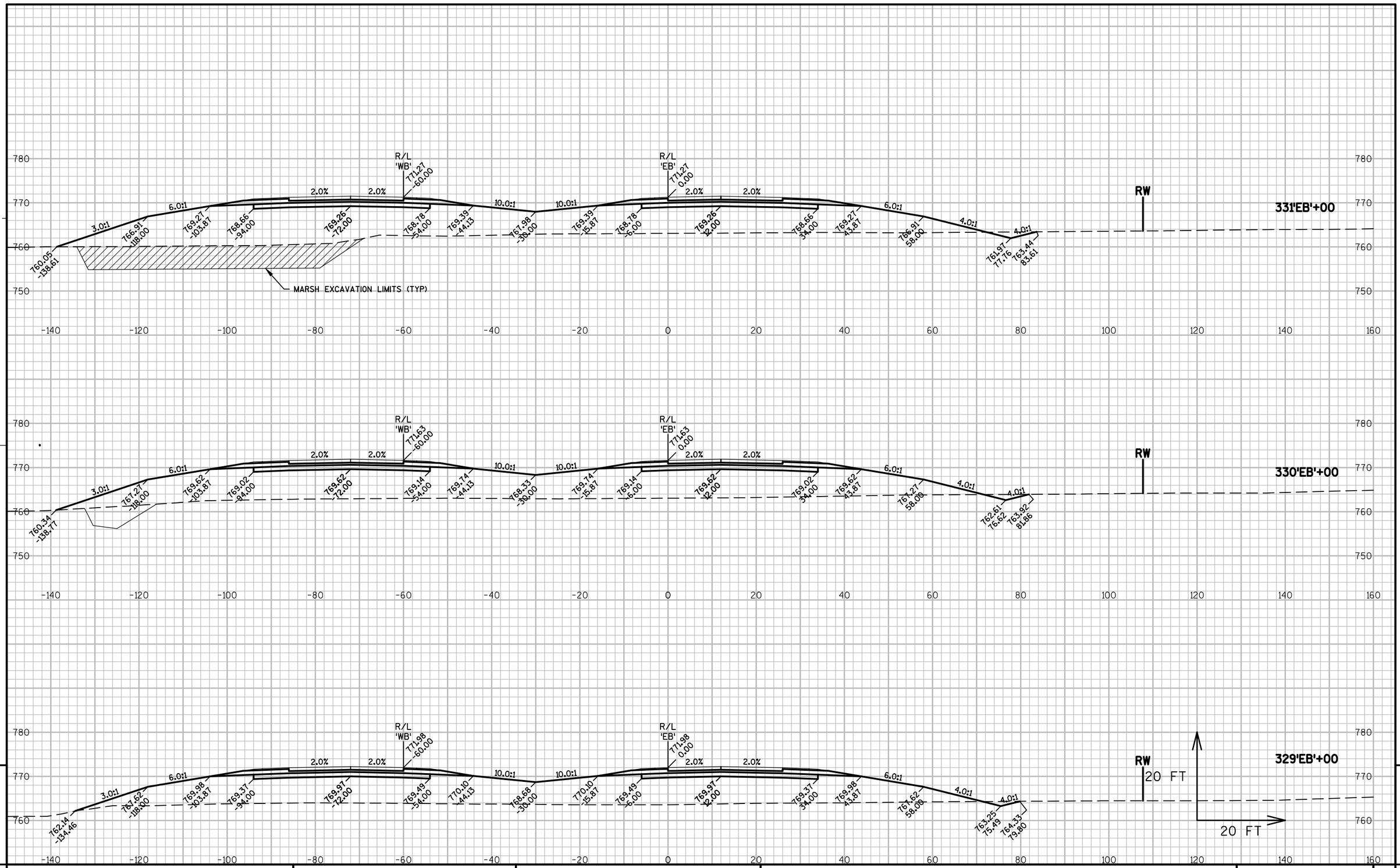
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090237_XS
PLOT DATE : 8/20/2019 8:05 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



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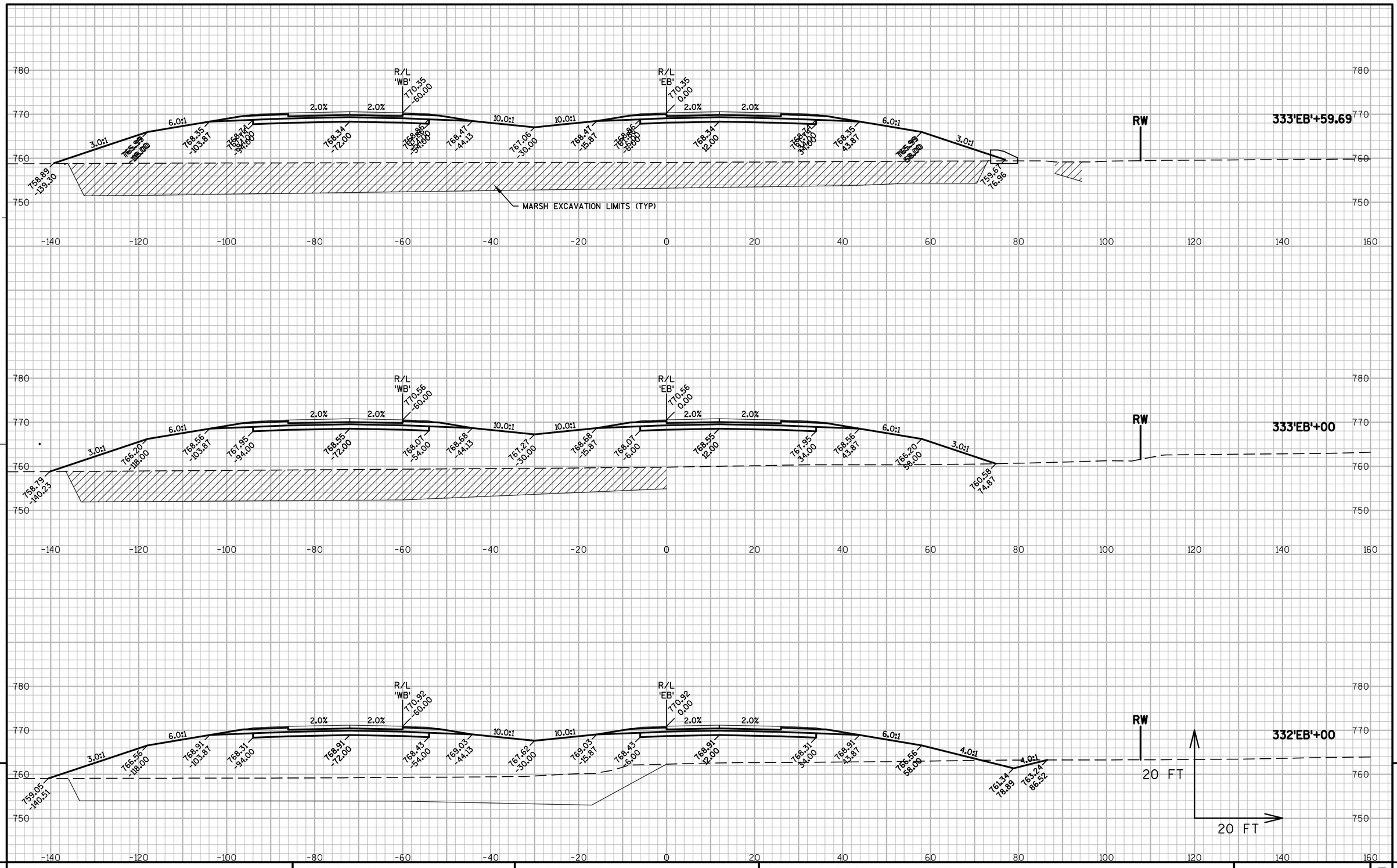
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090238_XS

PLOT DATE : 8/20/2019 8:05 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090239_XS

PLOT DATE : 8/20/2019 8:06 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

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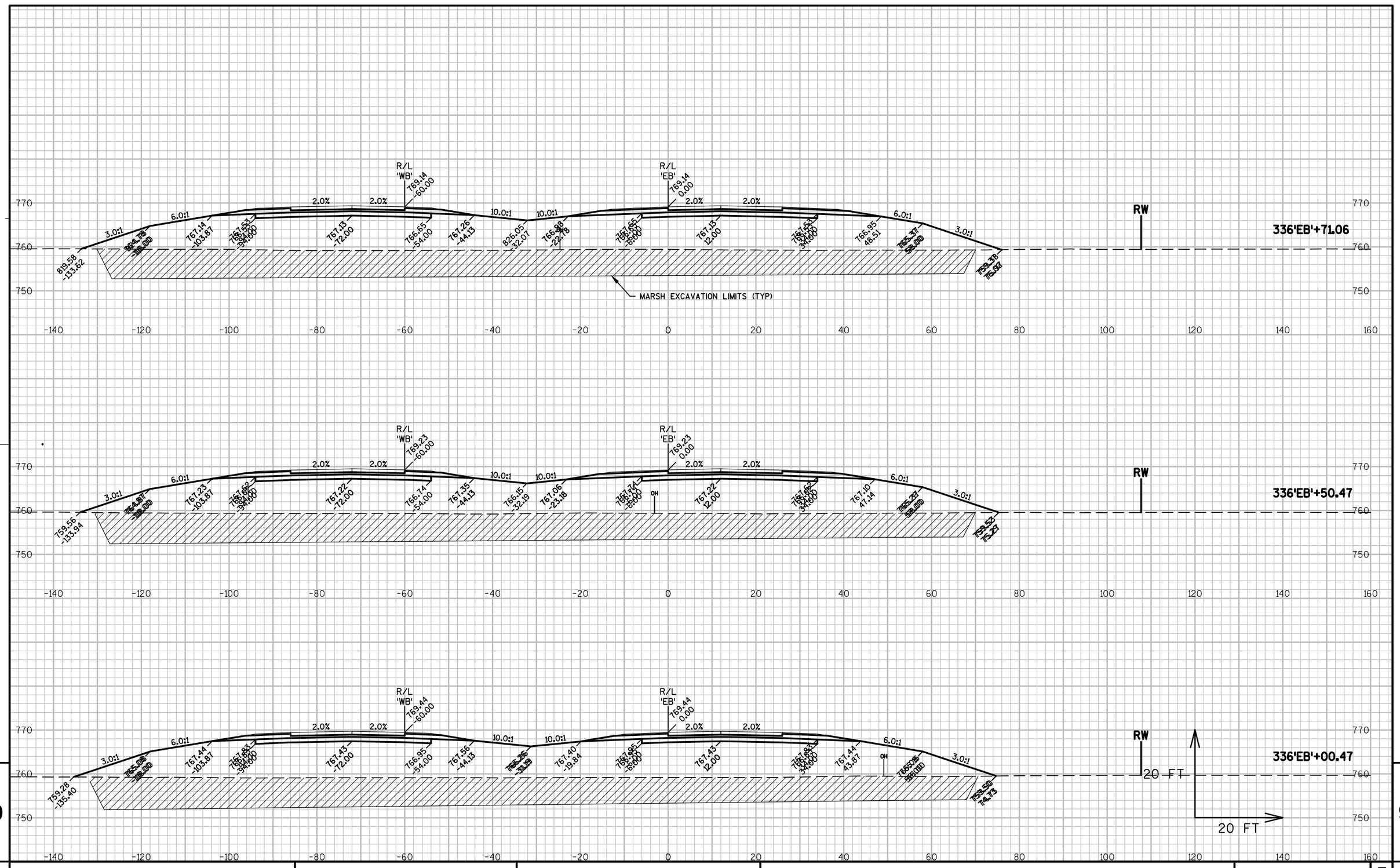
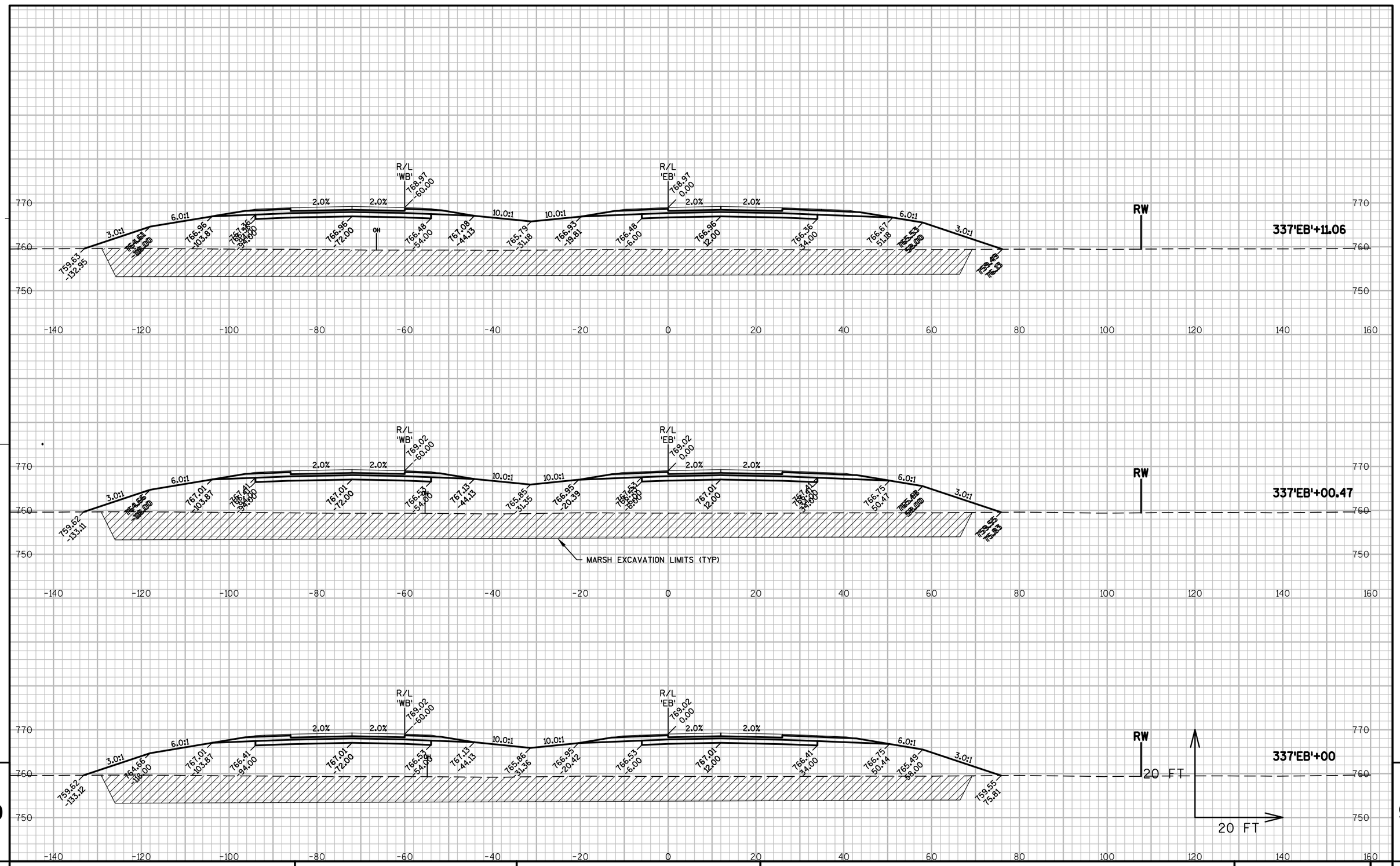
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090240_XS
PLOT DATE : 8/20/2019 8:06 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090241_XS
PLOT DATE : 8/20/2019 8:06 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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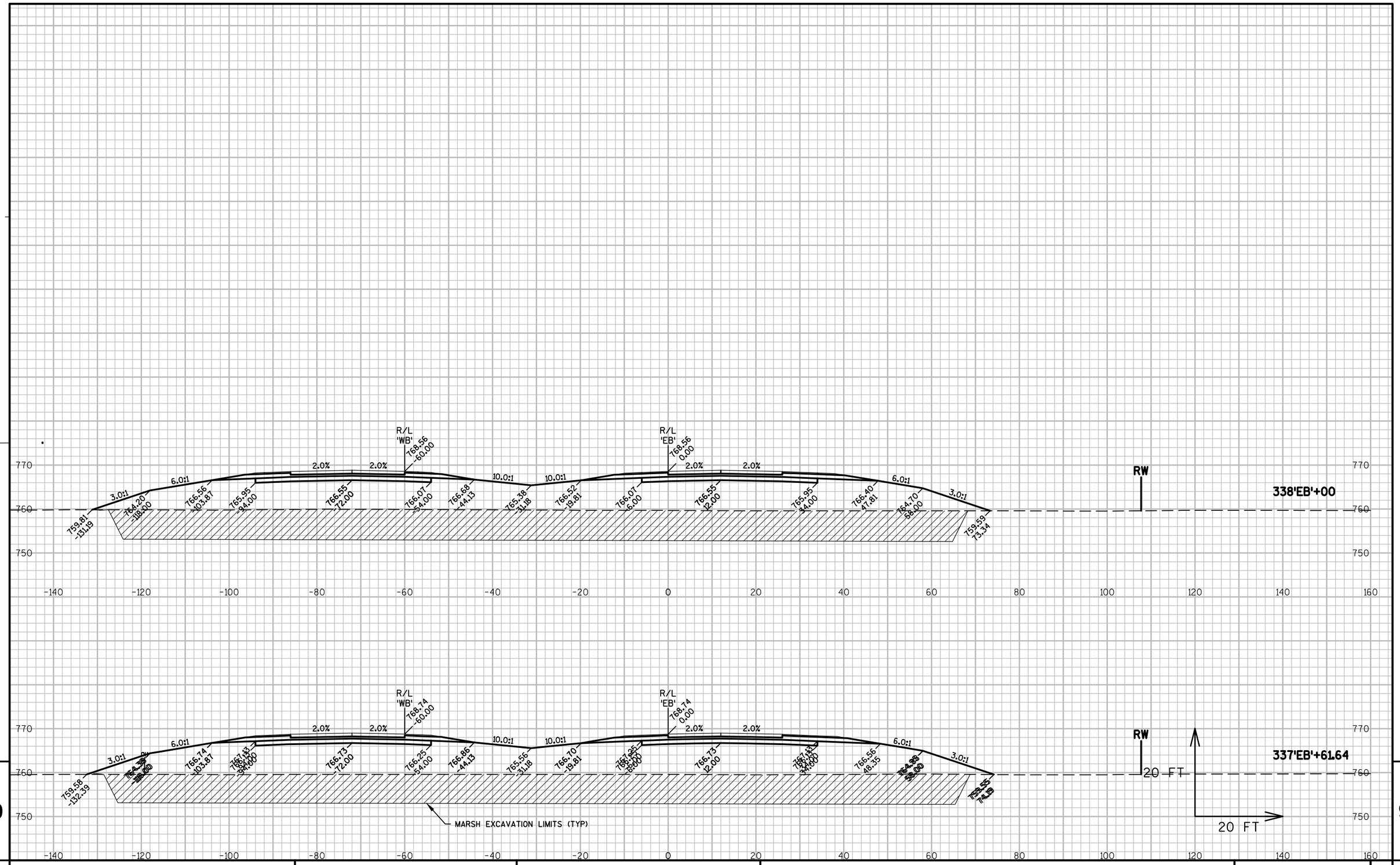
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090242_XS
PLOT DATE : 8/20/2019 8:06 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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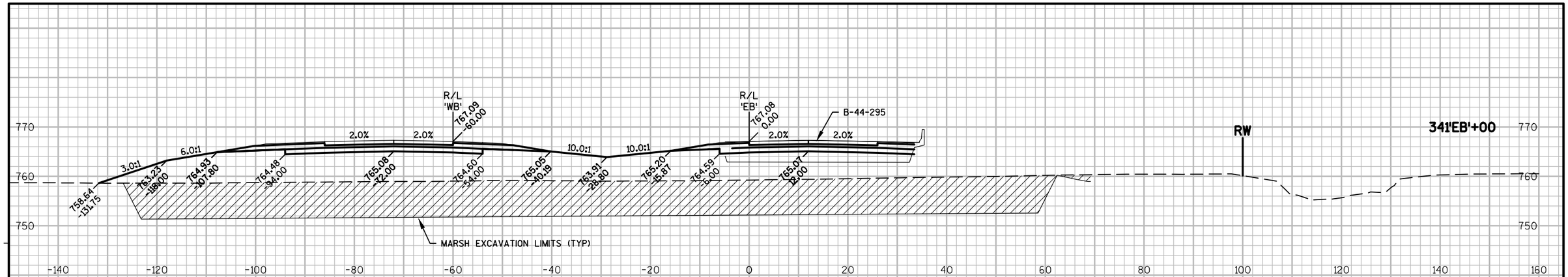
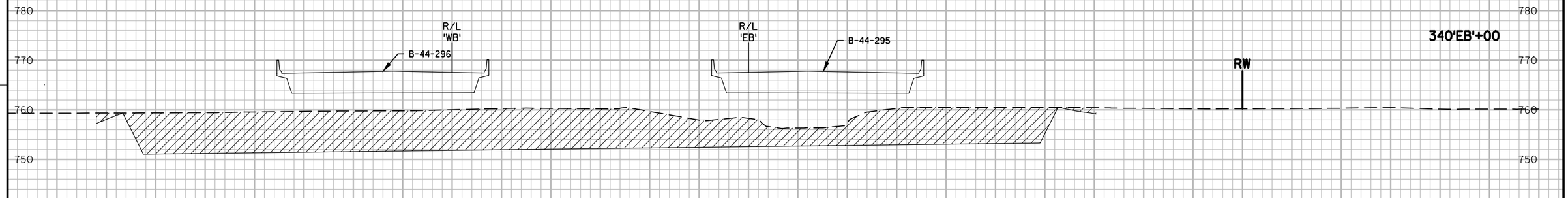
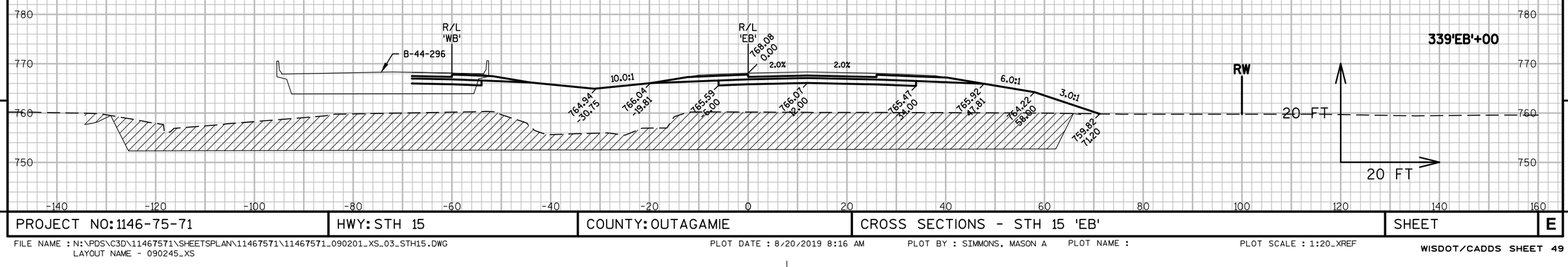
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_02_STH15.DWG
LAYOUT NAME - 090243_XS
PLOT DATE : 8/20/2019 8:06 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS







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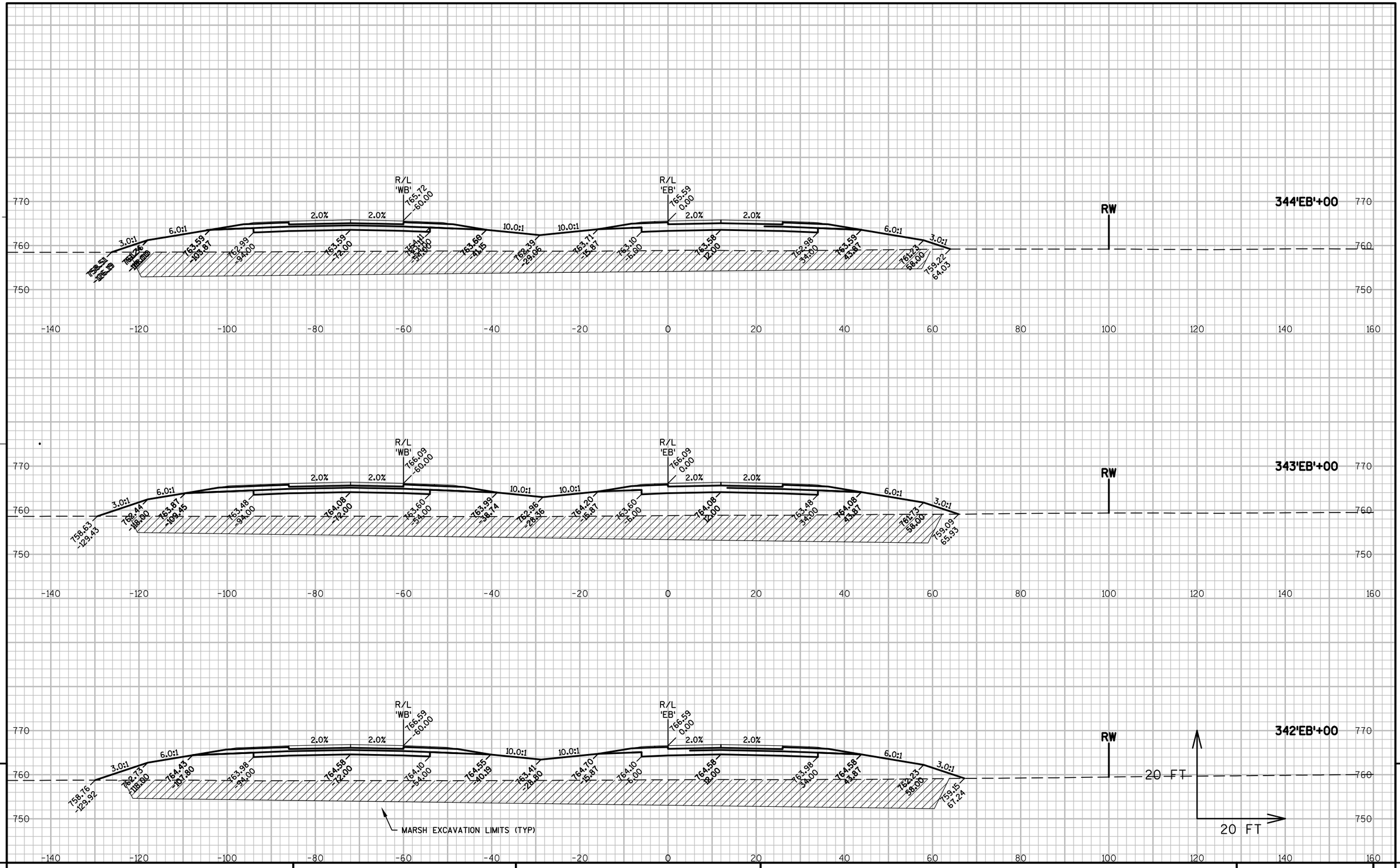
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090245_XS

PLOT DATE : 8/20/2019 8:16 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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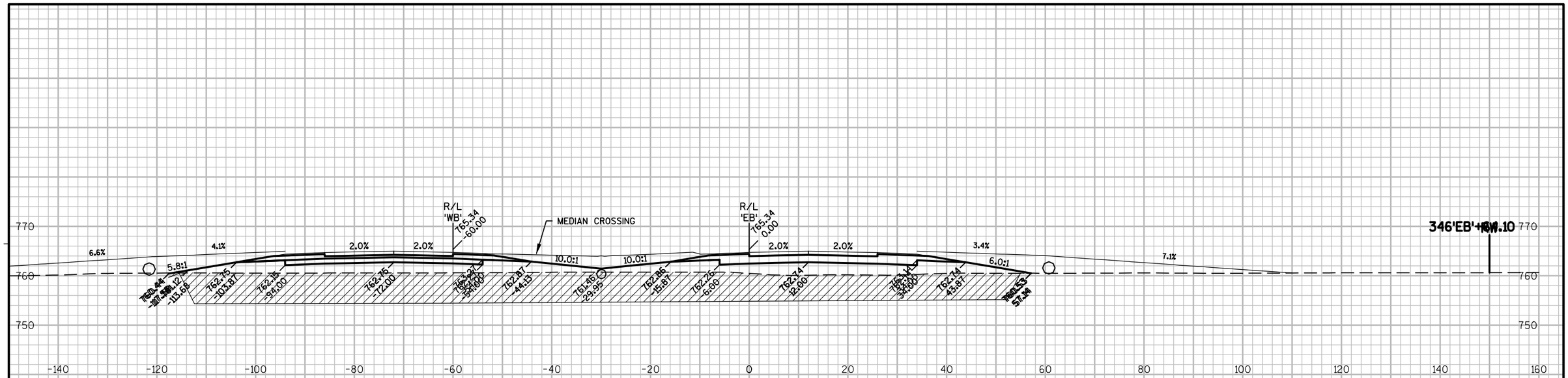
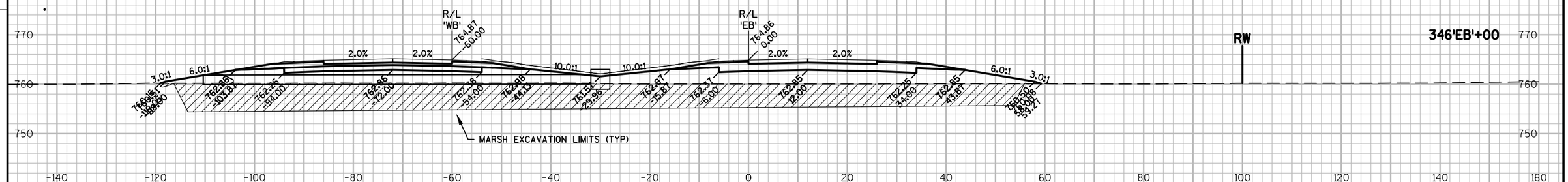
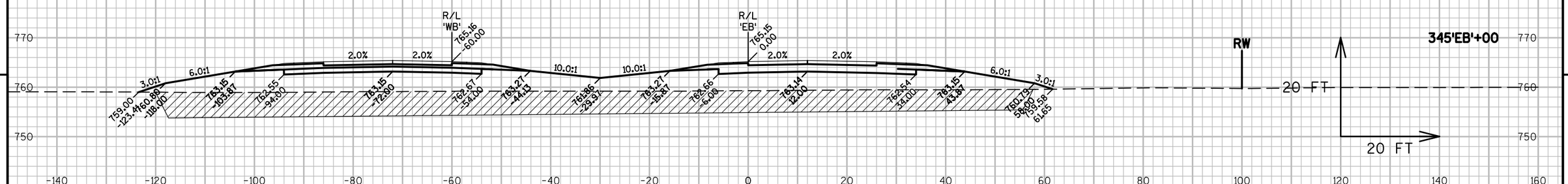
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090246_XS

PLOT DATE : 8/20/2019 8:16 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF







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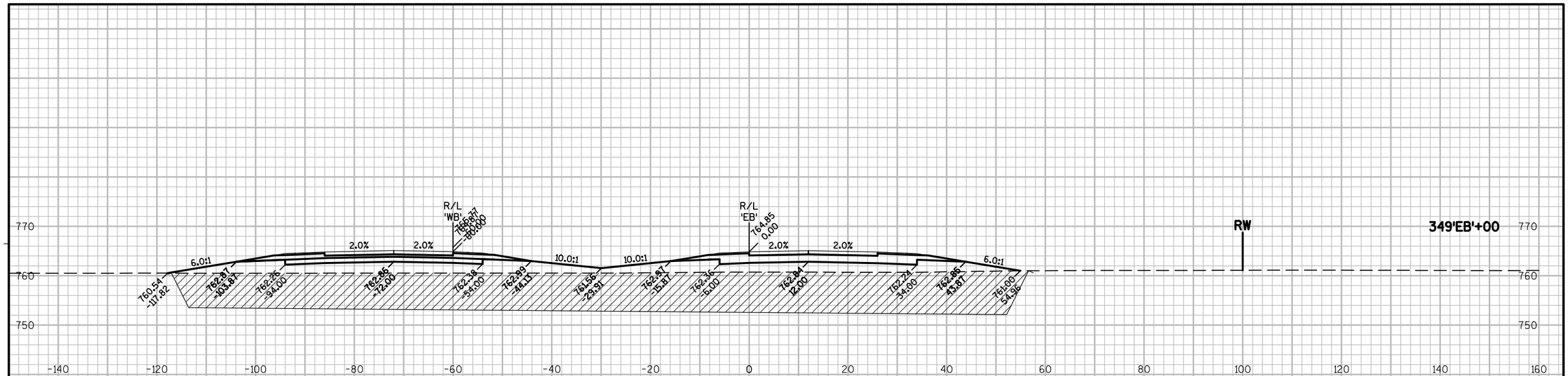
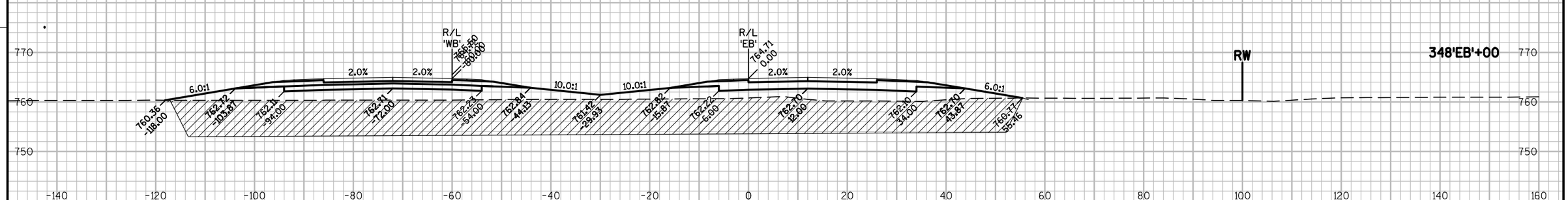
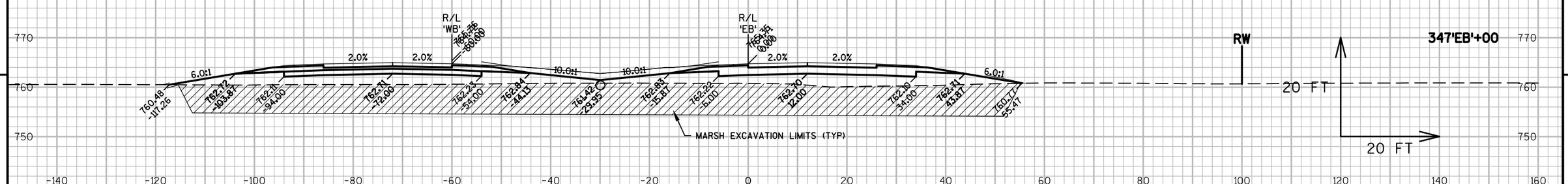
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090247_XS

PLOT DATE : 8/20/2019 8:16 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF







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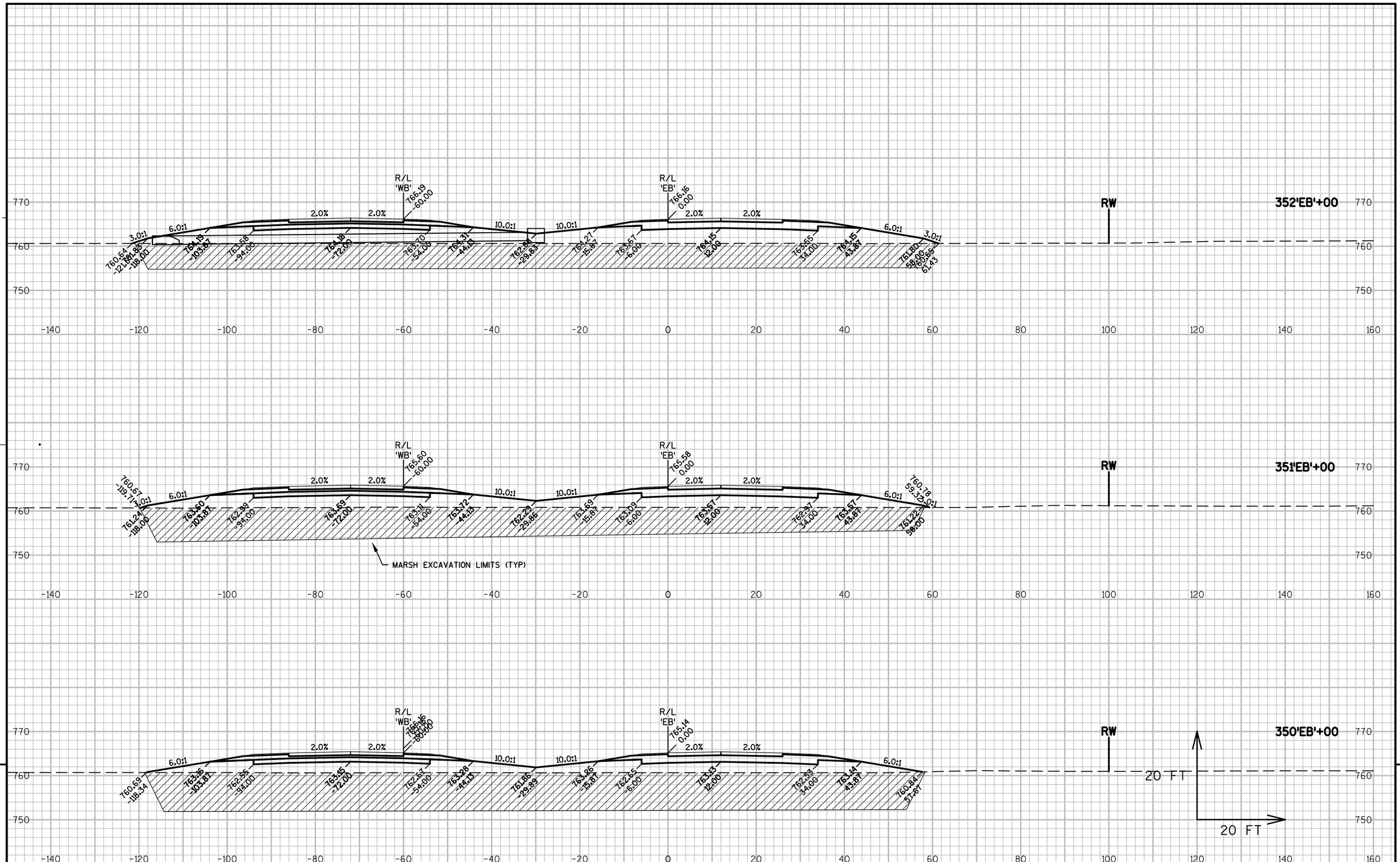
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090248_XS
PLOT DATE : 8/20/2019 8:17 AM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



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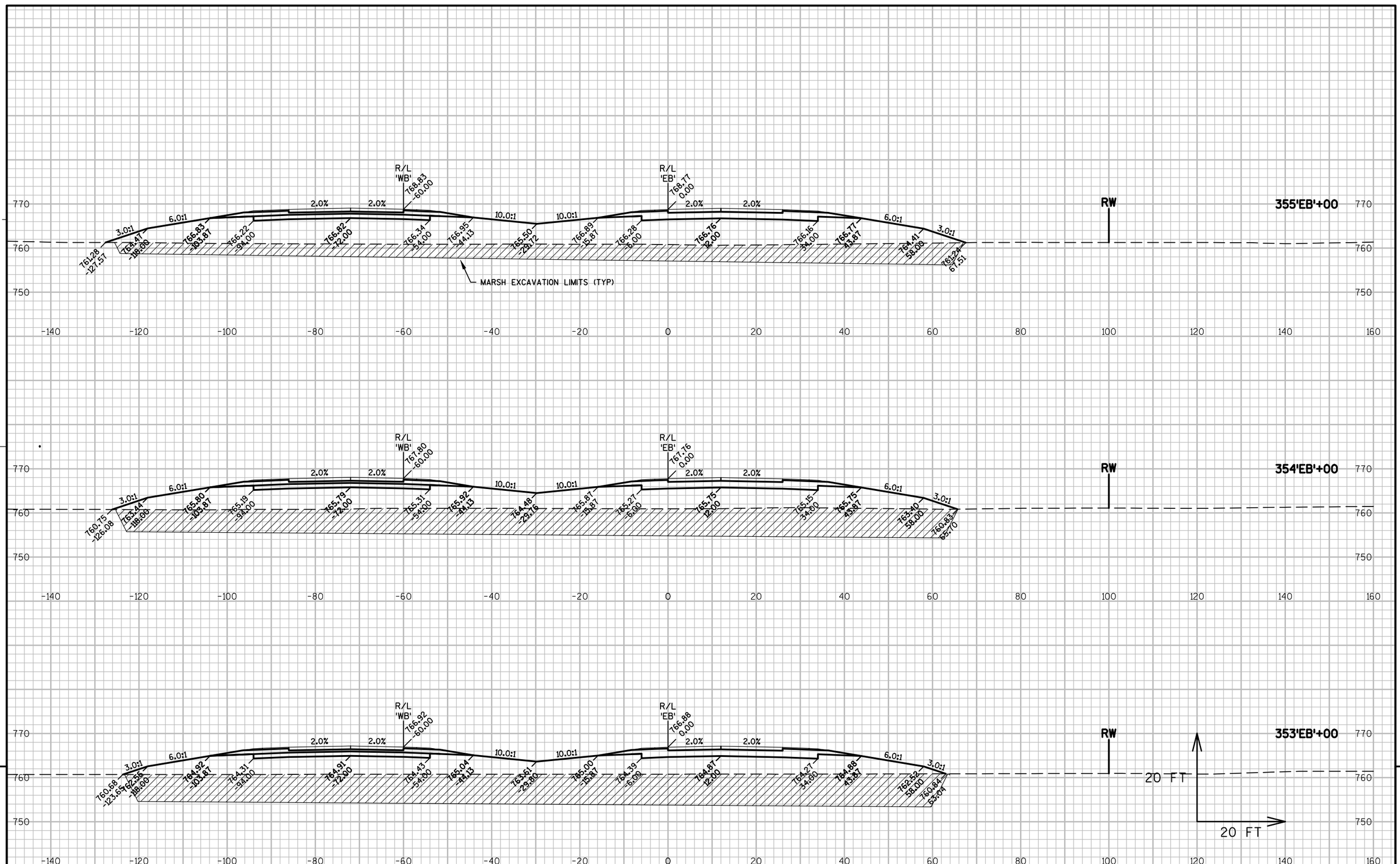
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090249_XS
PLOT DATE : 8/20/2019 8:17 AM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1:20_XREF



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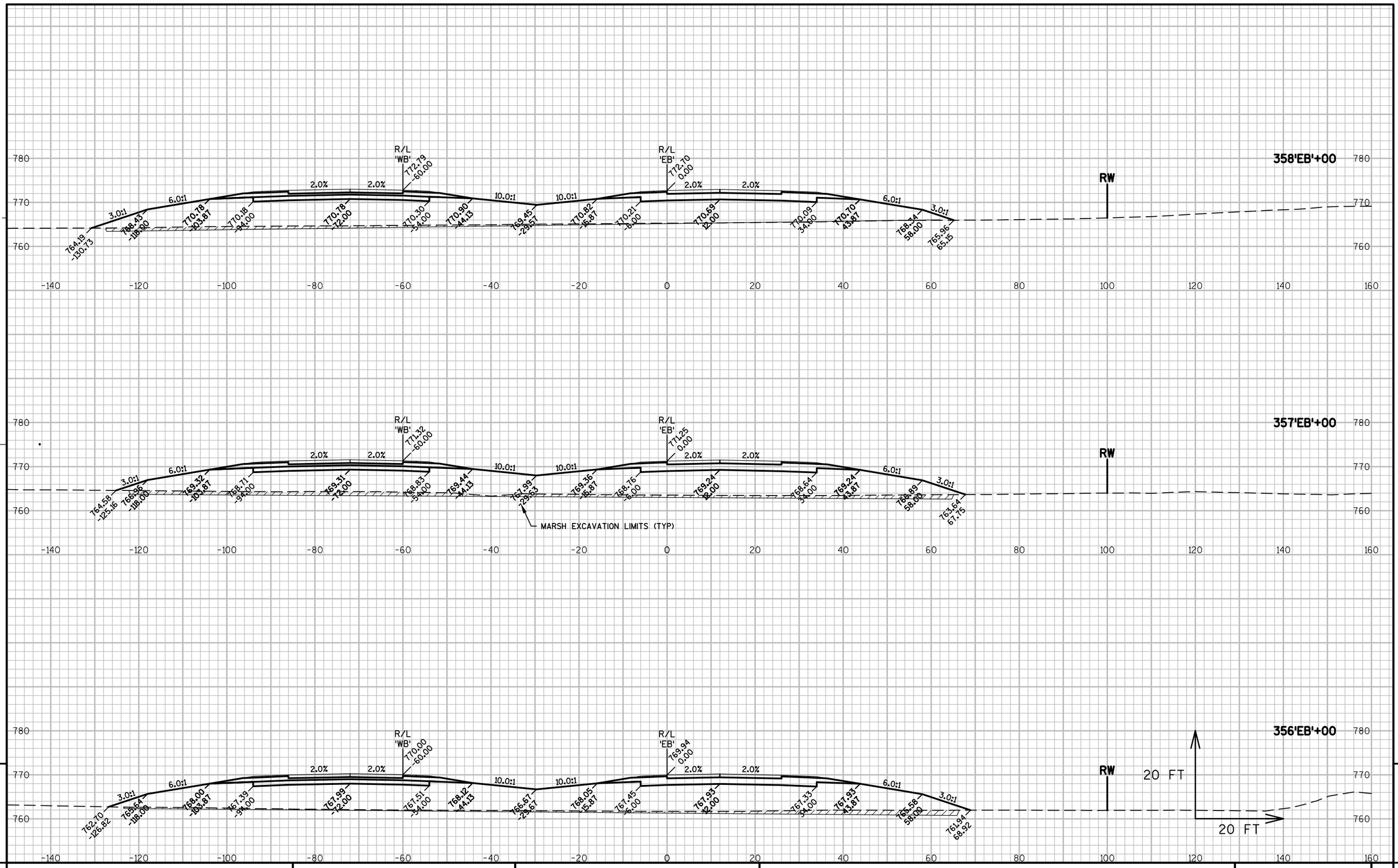
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090250_XS

PLOT DATE : 8/20/2019 8:17 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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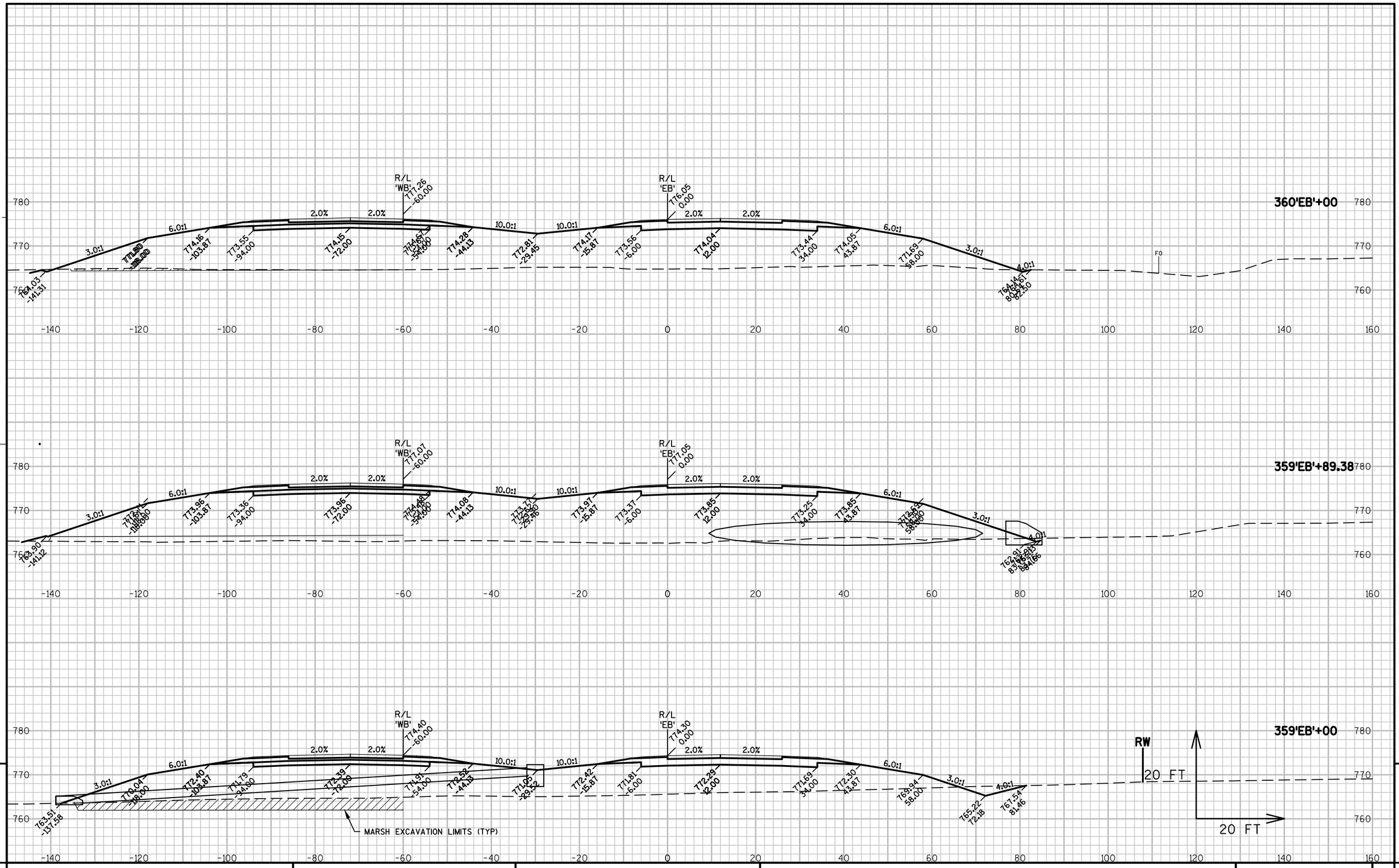
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090251_XS

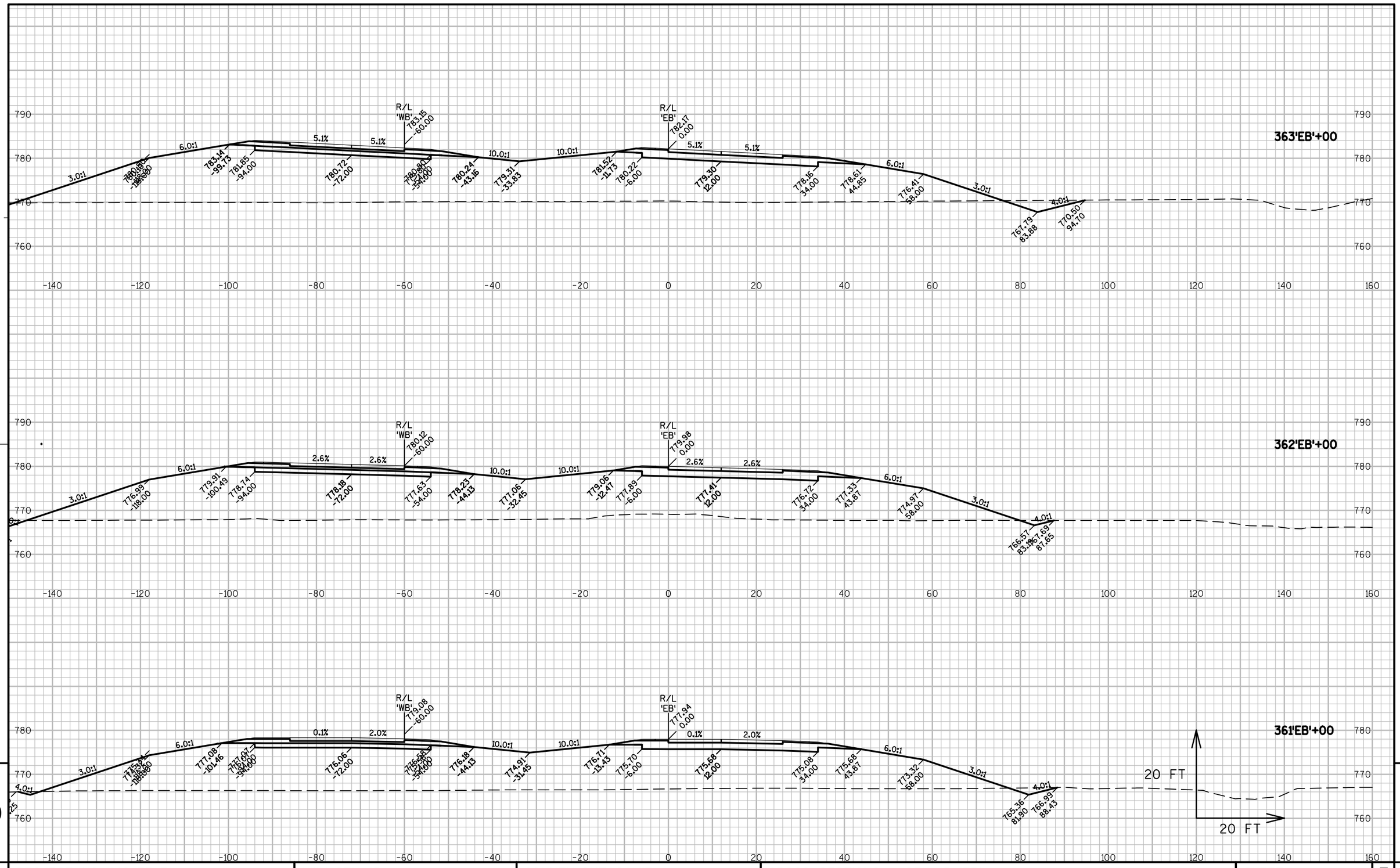
PLOT DATE : 8/20/2019 8:17 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090252_XS

PLOT DATE : 8/20/2019 8:17 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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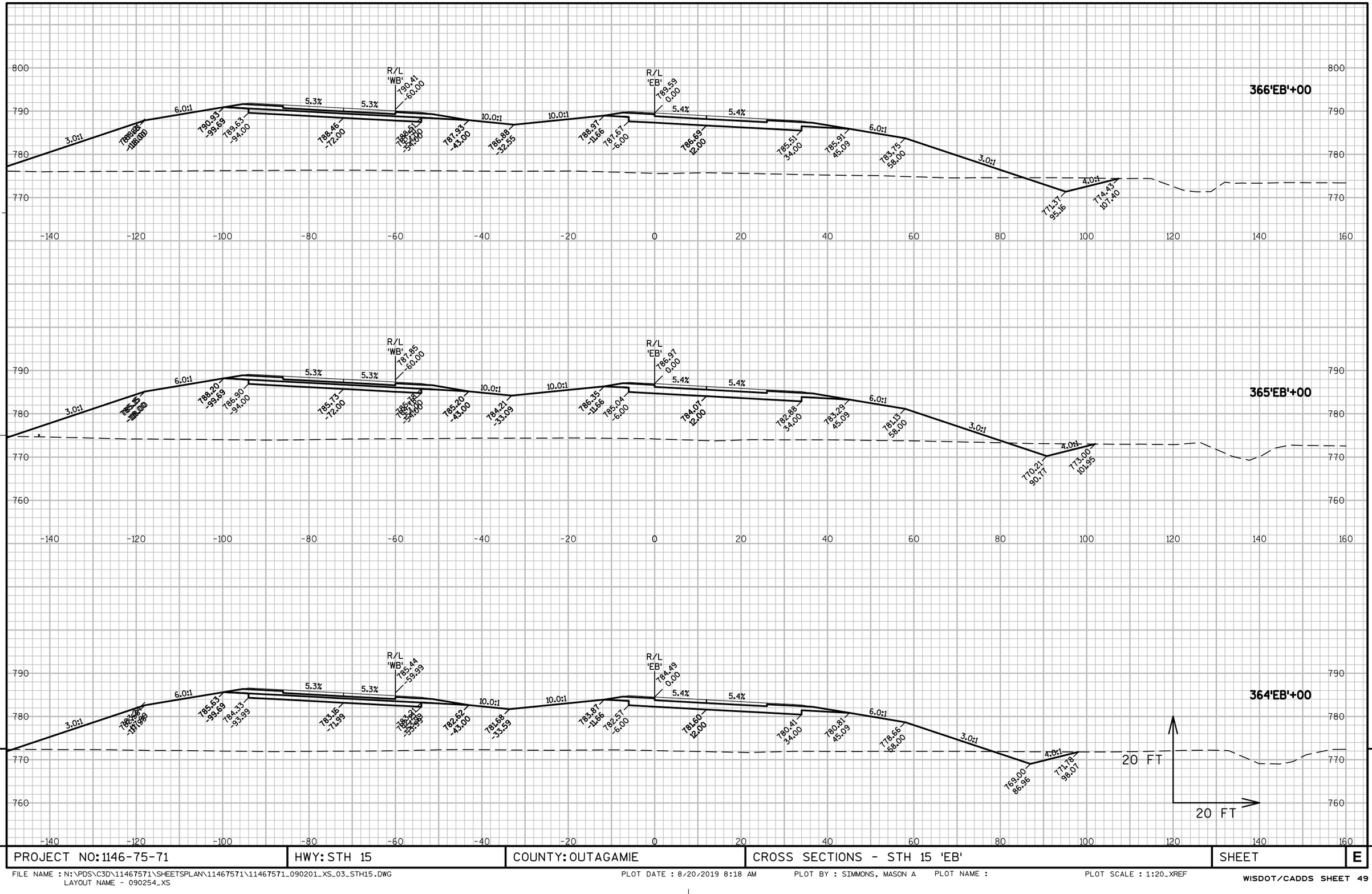
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

9

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090253_XS

PLOT DATE : 8/20/2019 8:17 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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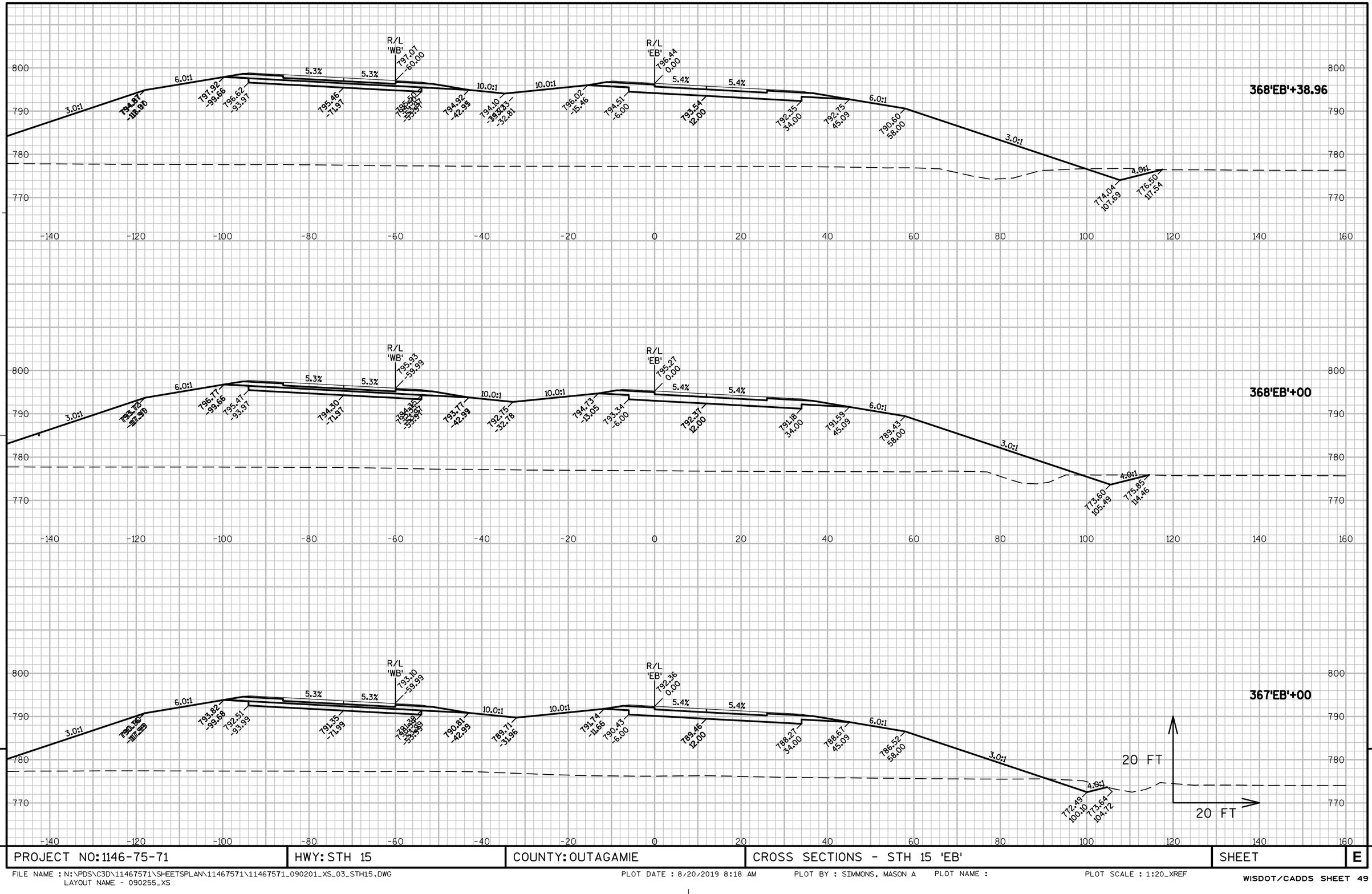
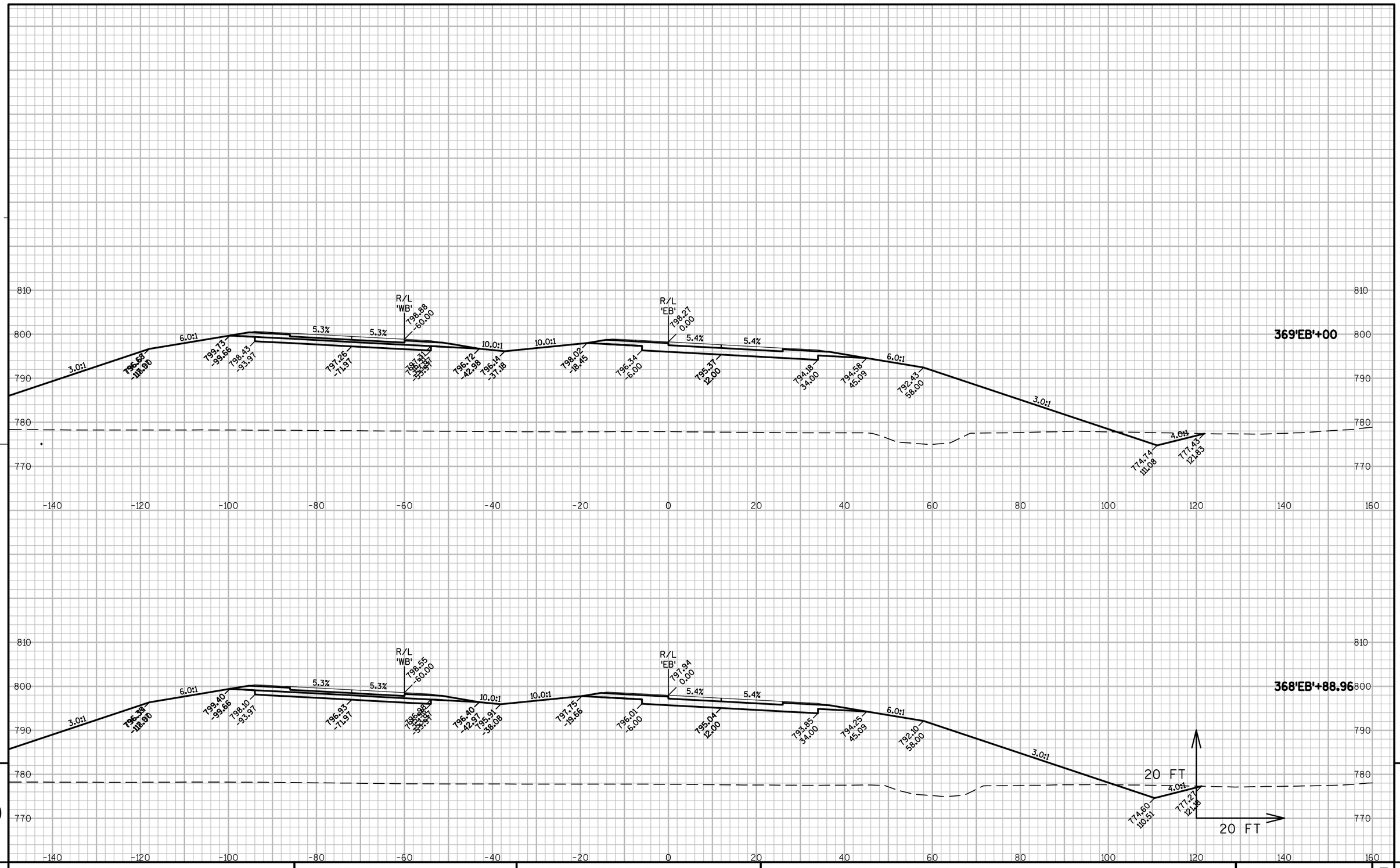
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090254_XS
PLOT DATE : 8/20/2019 8:18 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 'EB'	SHEET	E



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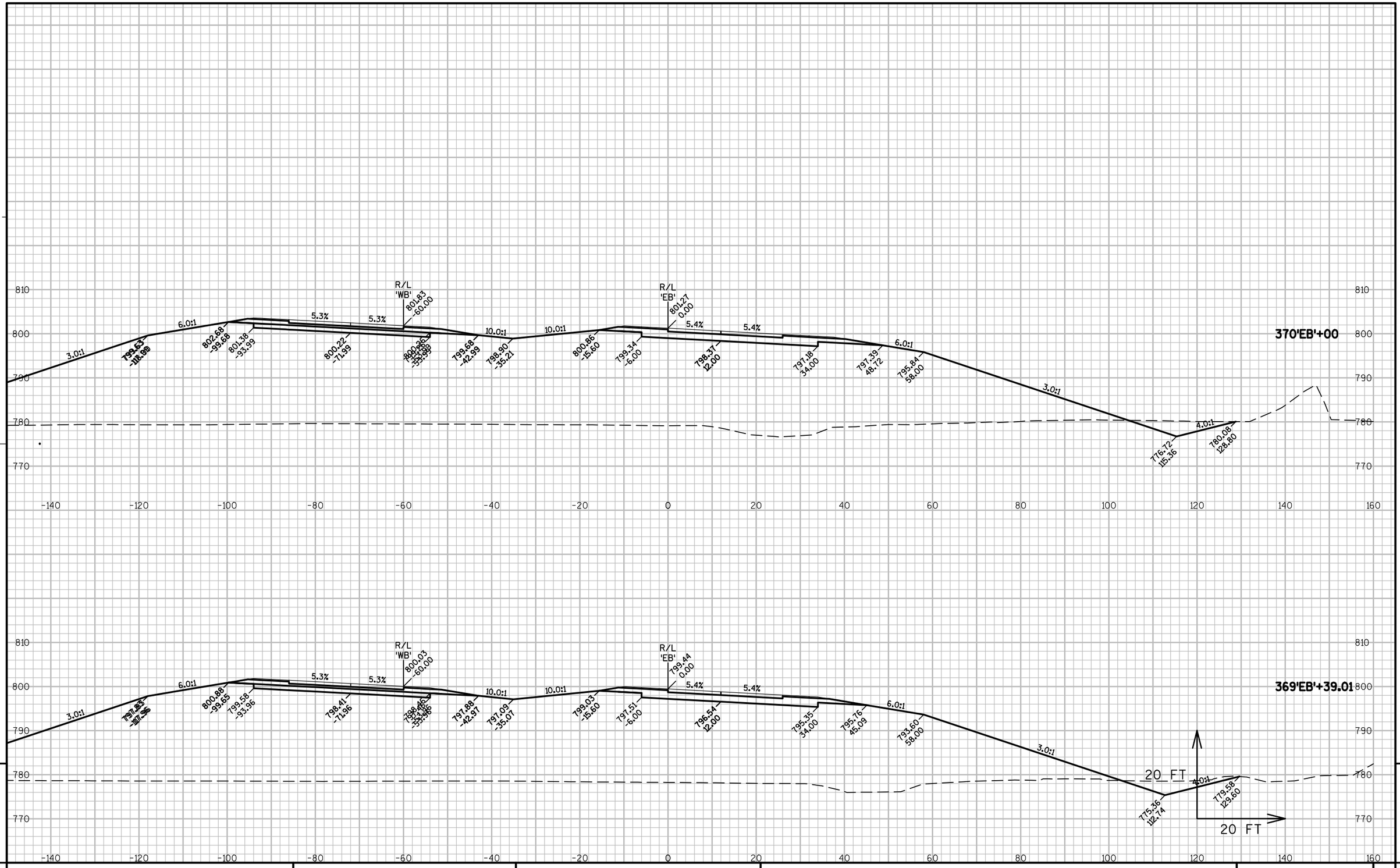
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090256_XS

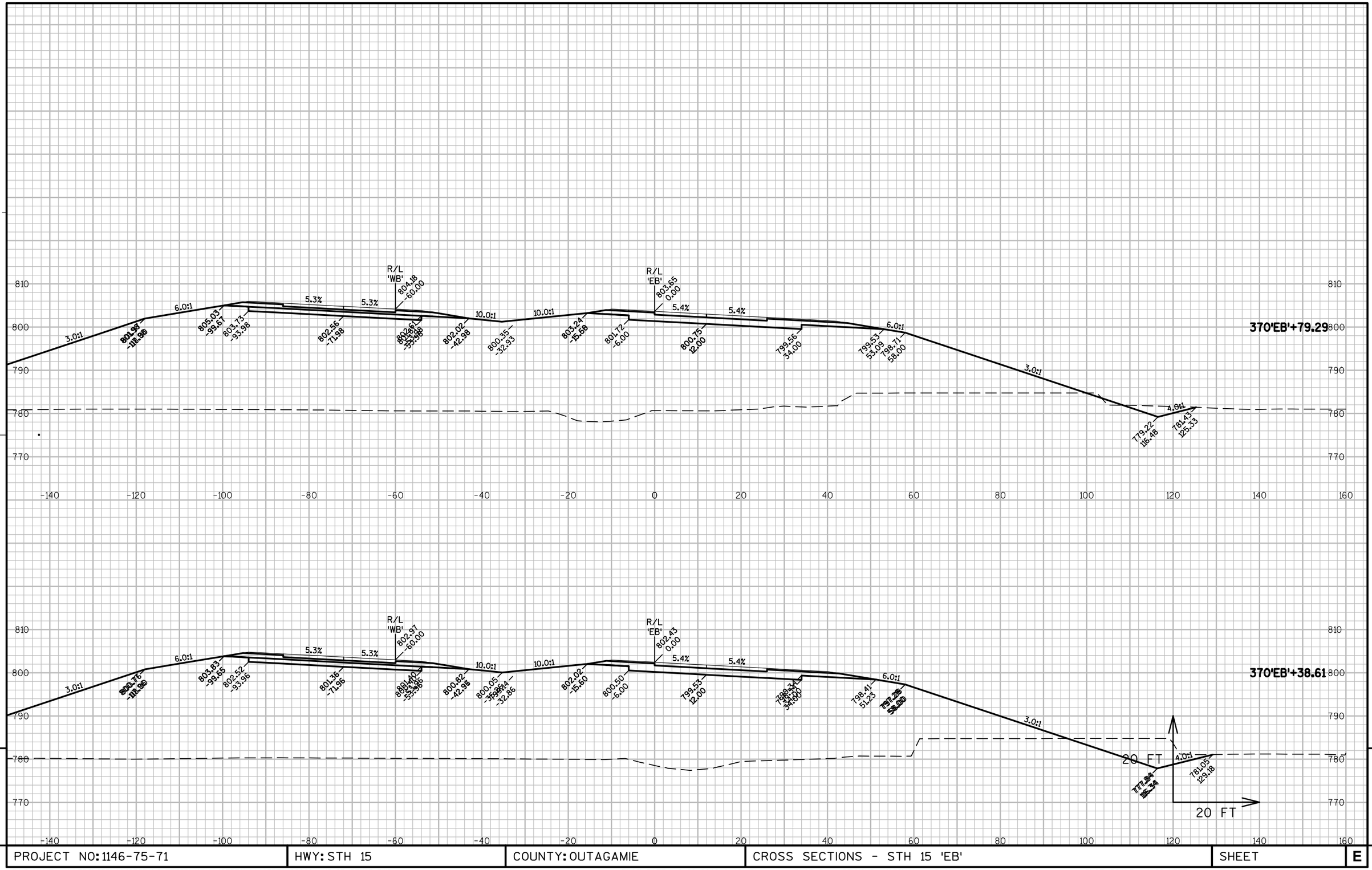
PLOT DATE : 8/20/2019 8:18 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090257_XS

PLOT DATE : 8/20/2019 8:18 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

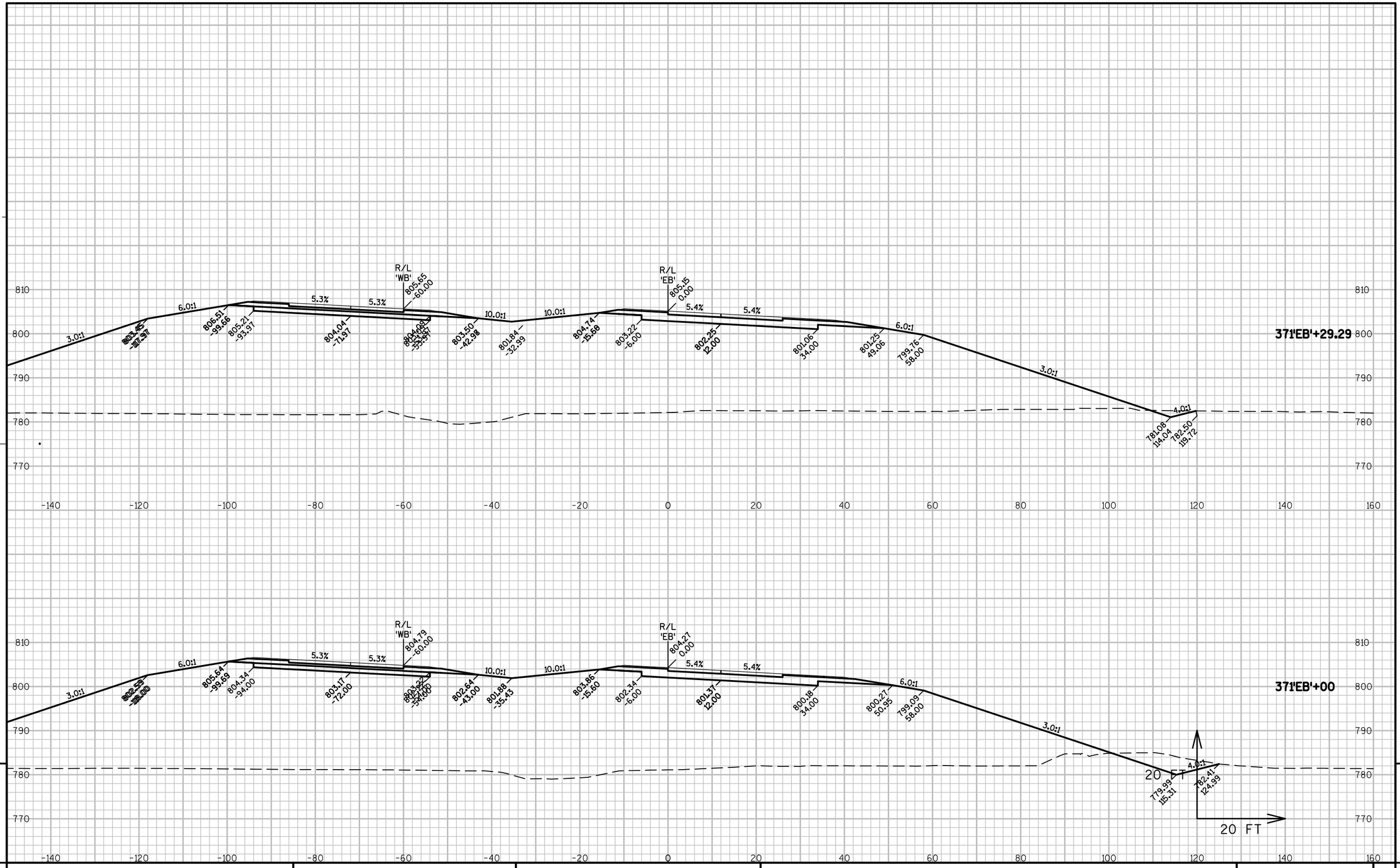


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090258_XS

PLOT DATE : 8/20/2019 8:18 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

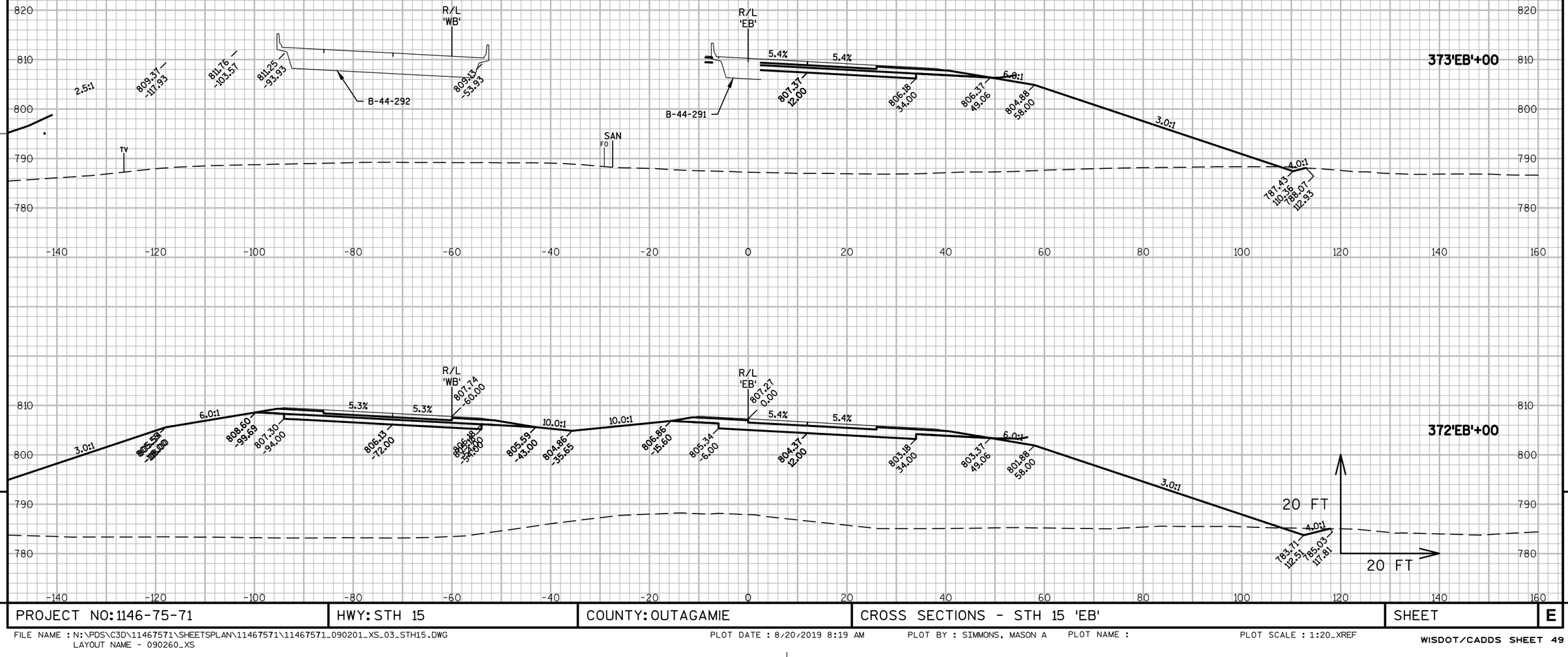
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090259_XS

PLOT DATE : 8/20/2019 8:18 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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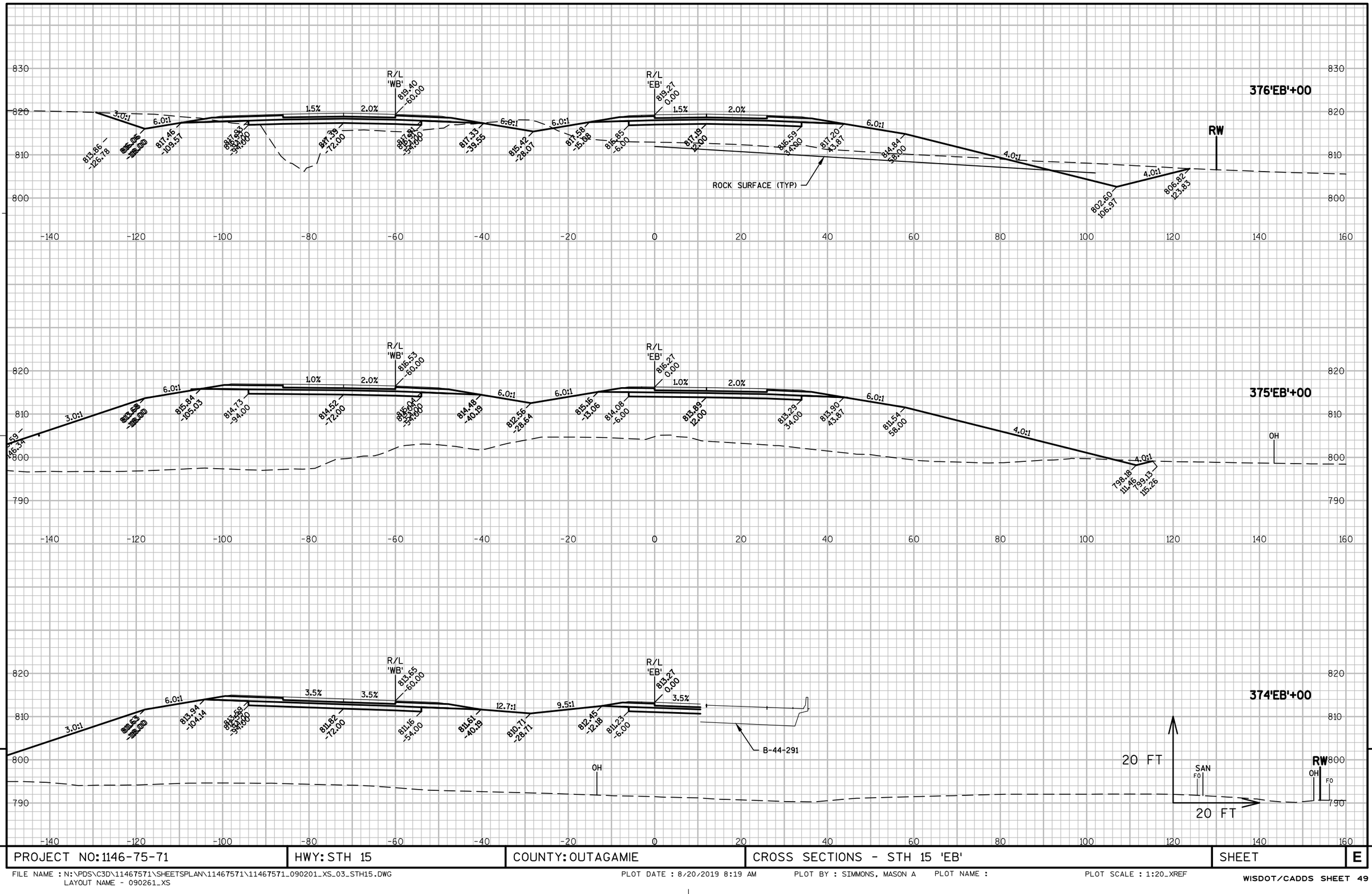
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090260_XS

PLOT DATE : 8/20/2019 8:19 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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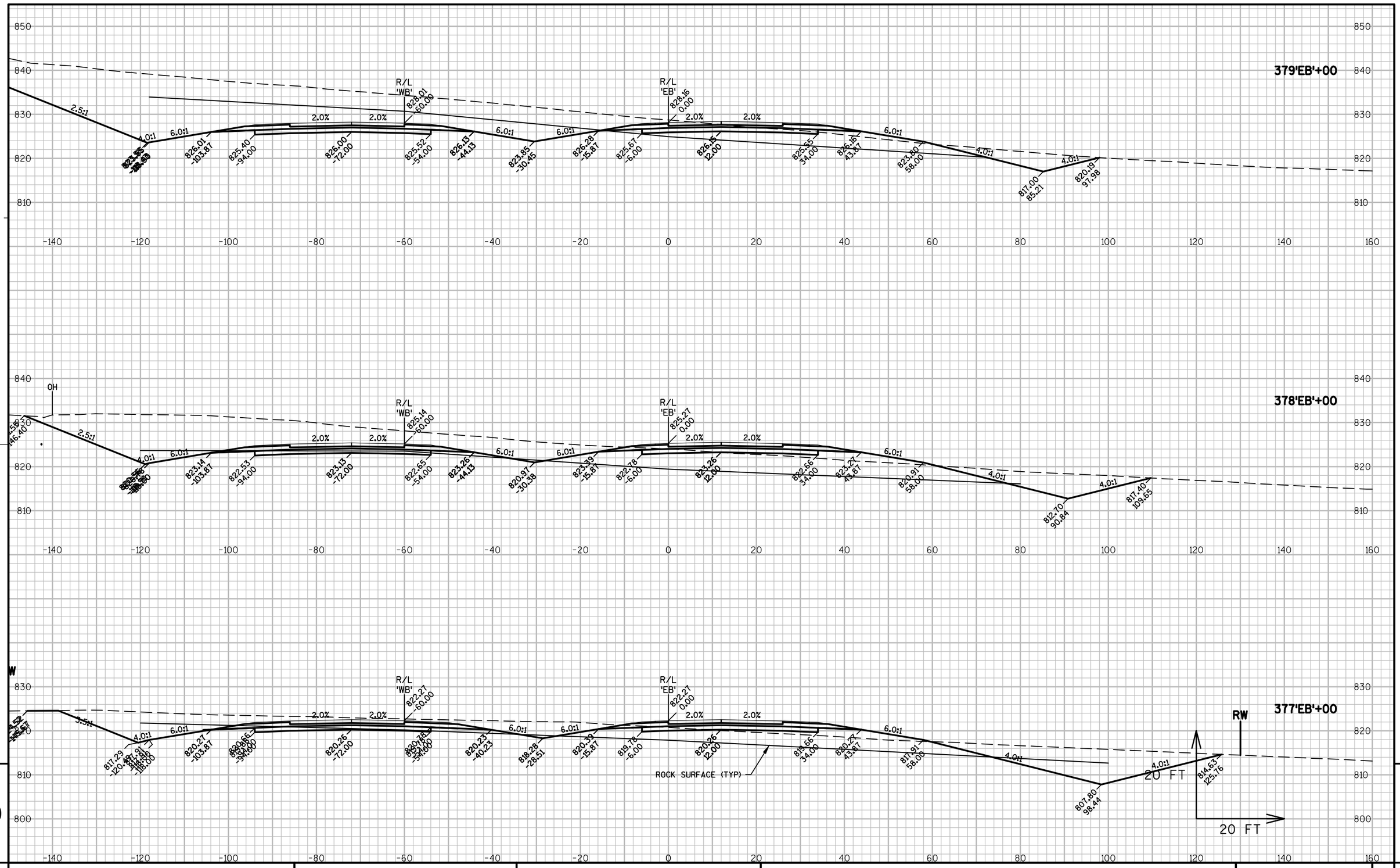
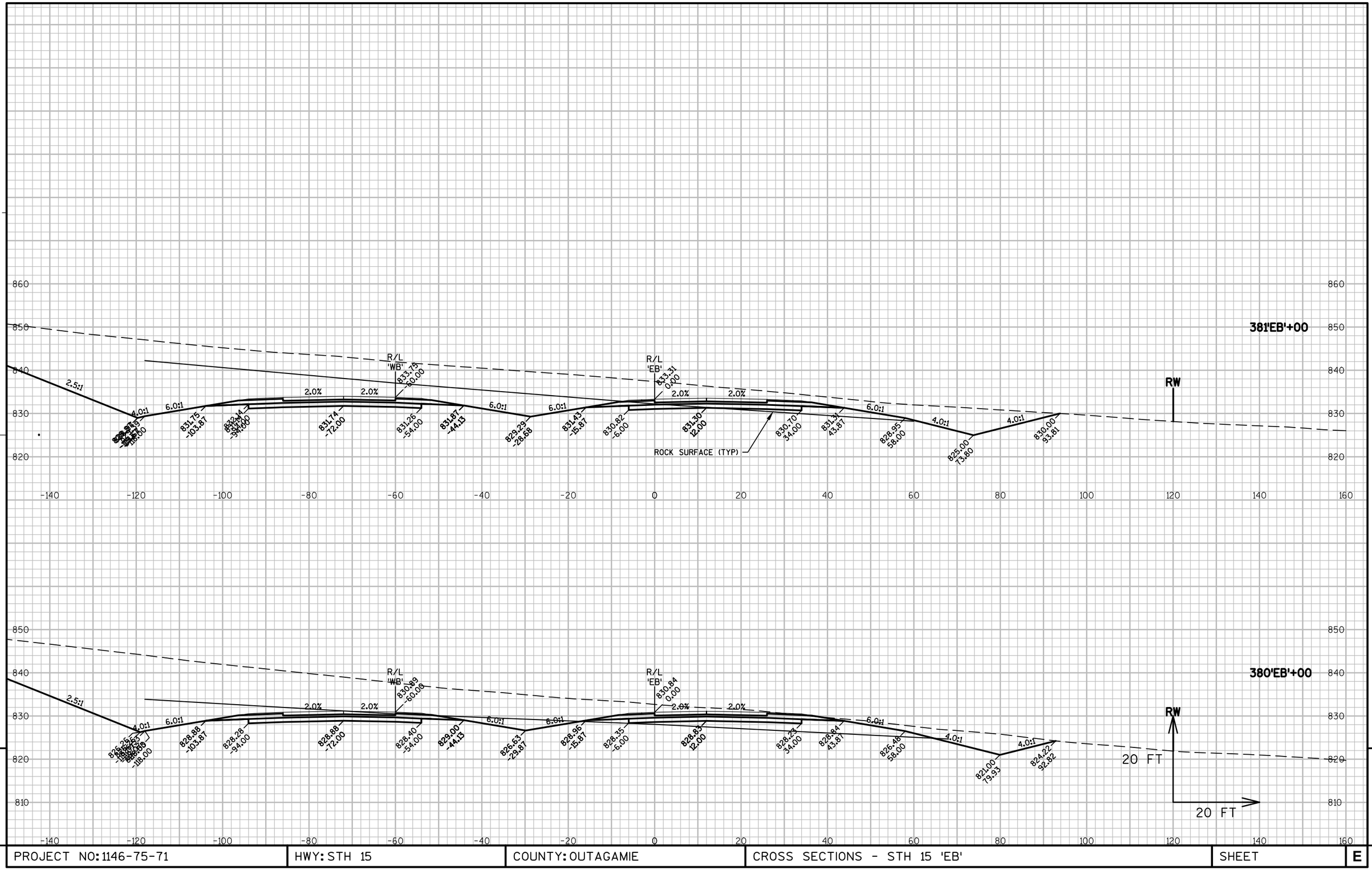
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090261_XS
PLOT DATE : 8/20/2019 8:19 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 'EB'	SHEET	E



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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090263_XS
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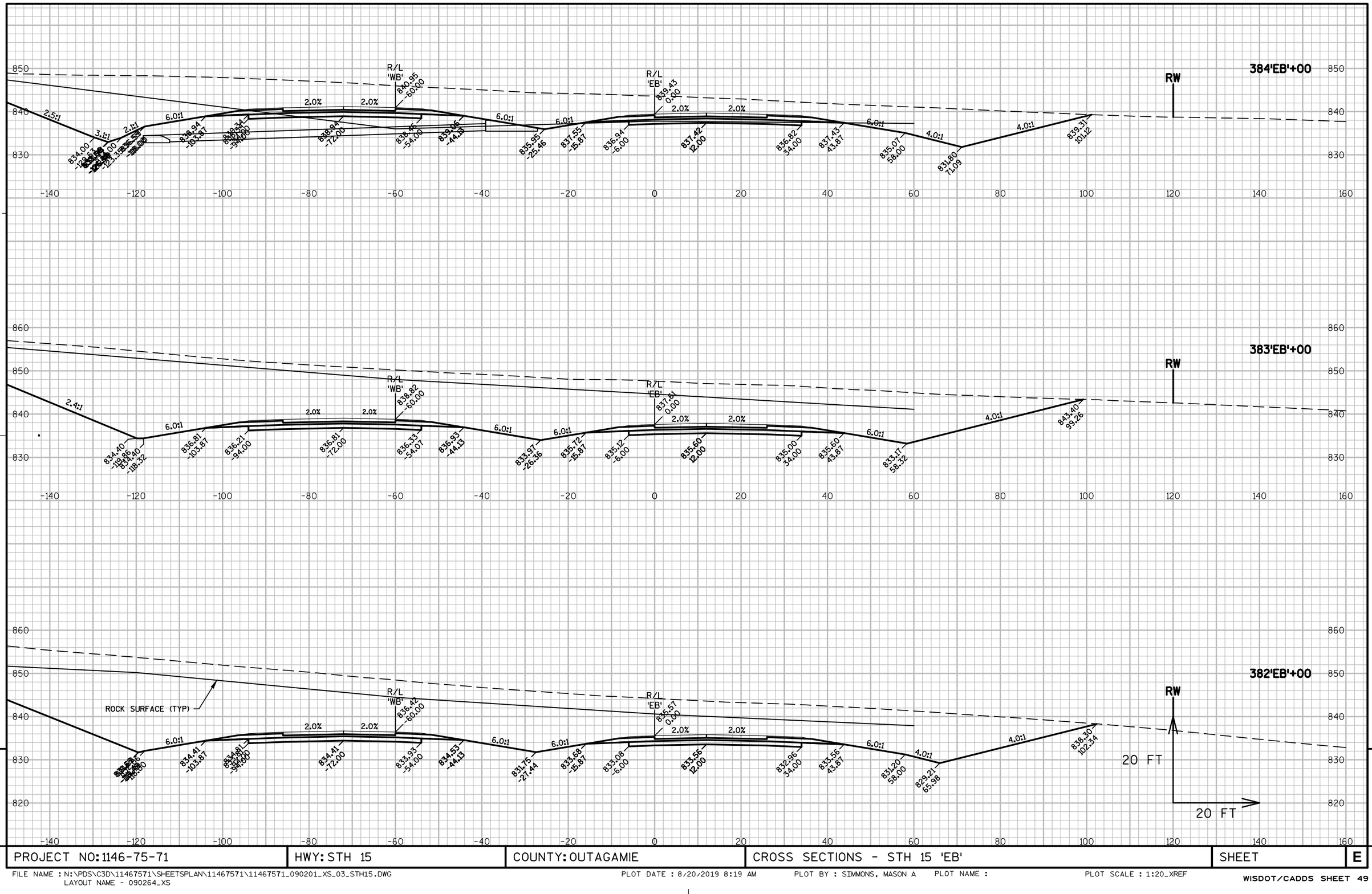

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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090264_XS
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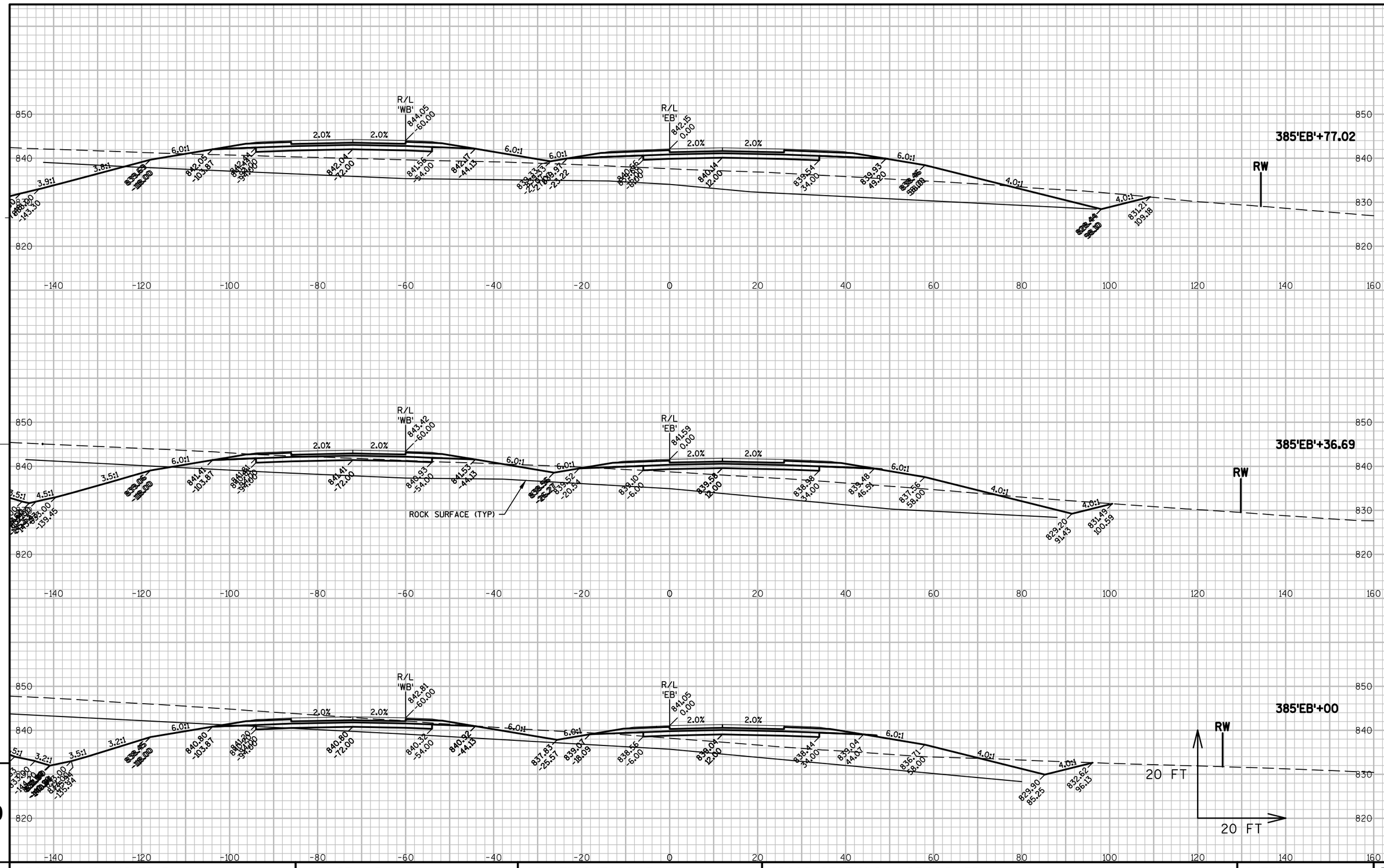


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

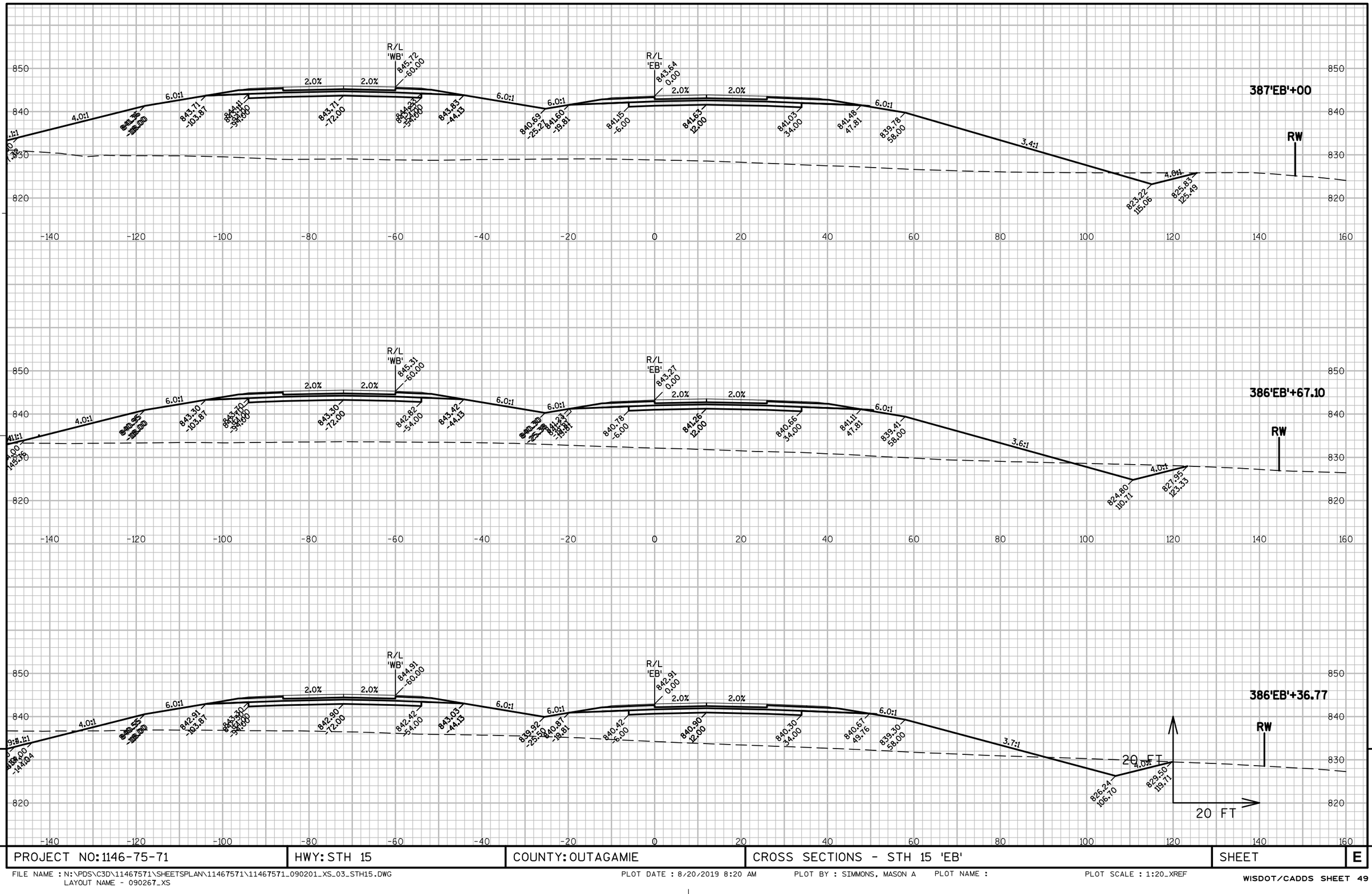
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090265_XS

PLOT DATE : 8/20/2019 8:20 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 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090266_XS

PLOT DATE : 8/20/2019 8:20 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 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
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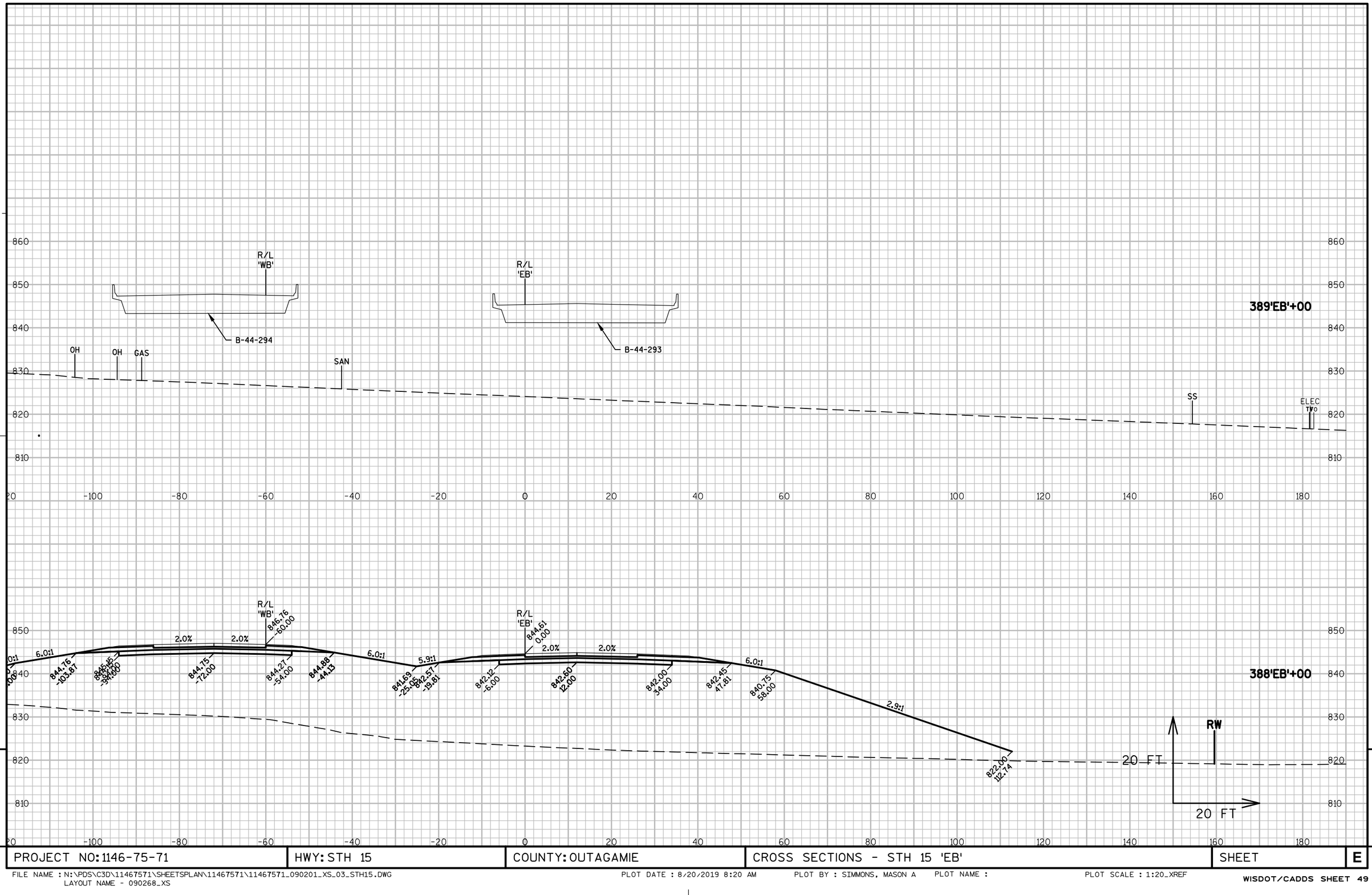
PLOT DATE : 8/20/2019 8:20 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
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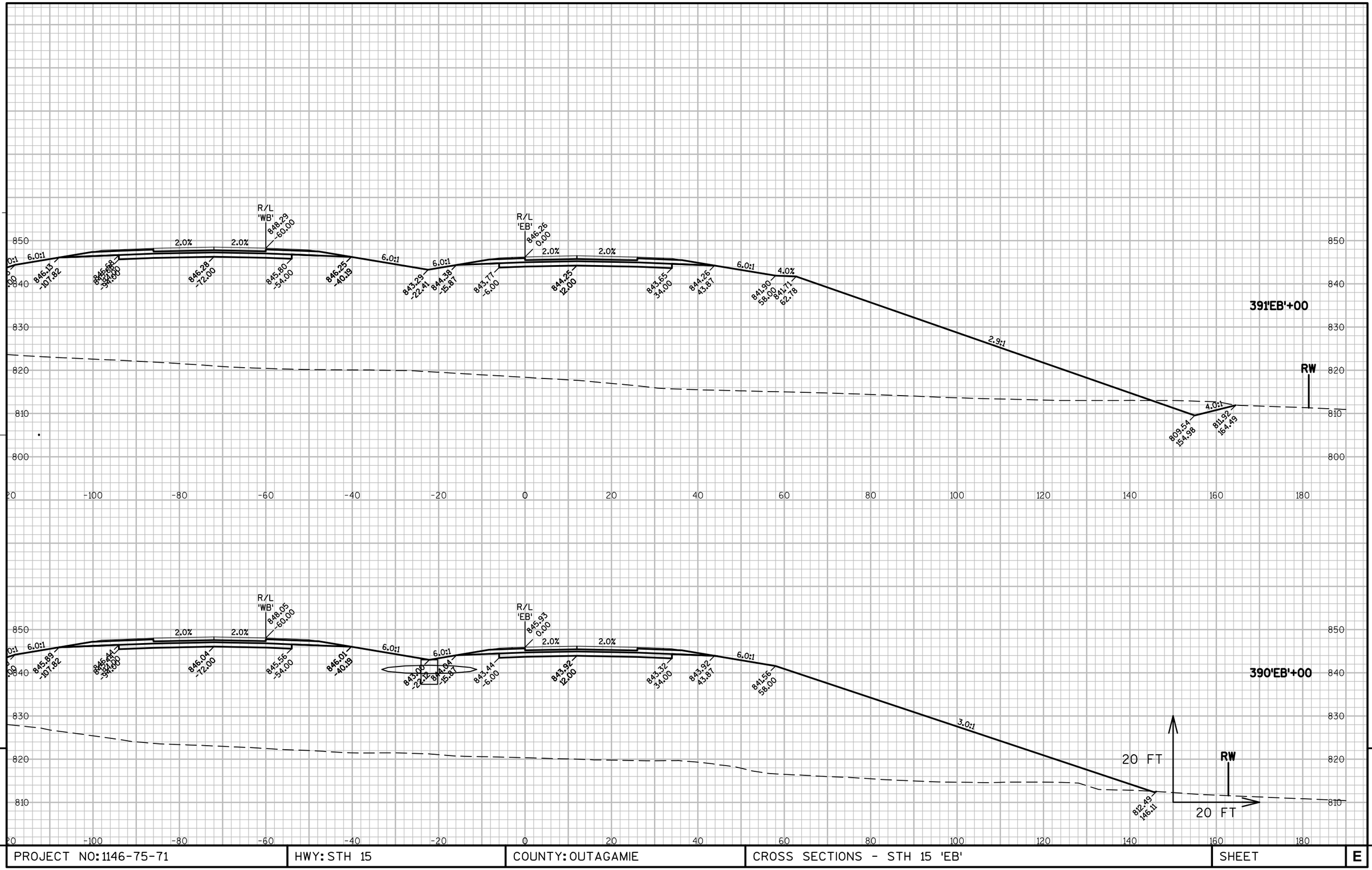
PLOT DATE : 8/20/2019 8:20 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

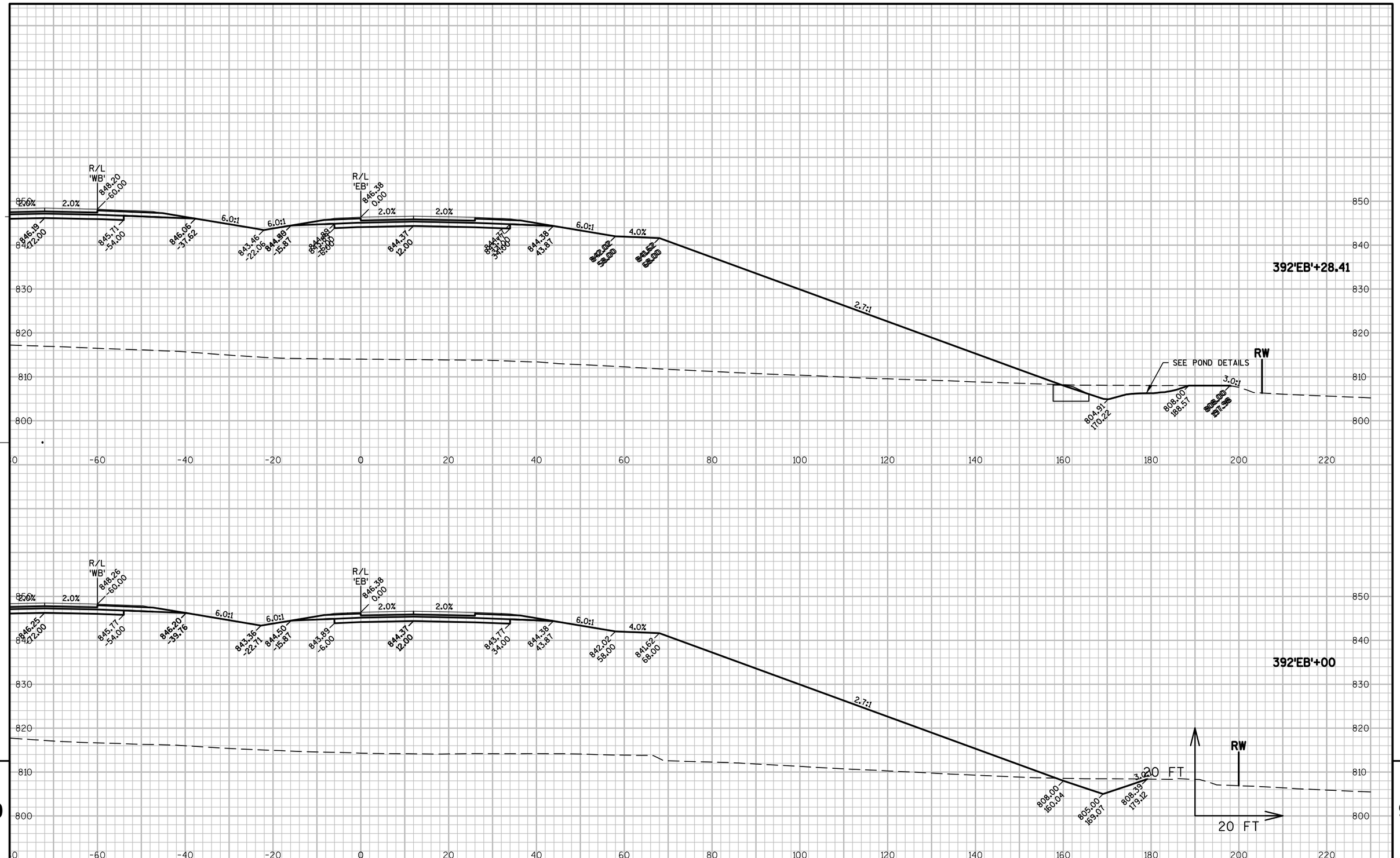


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090269_XS

PLOT DATE : 8/20/2019 8:20 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 'EB'	SHEET	E

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LAYOUT NAME - 090270_XS
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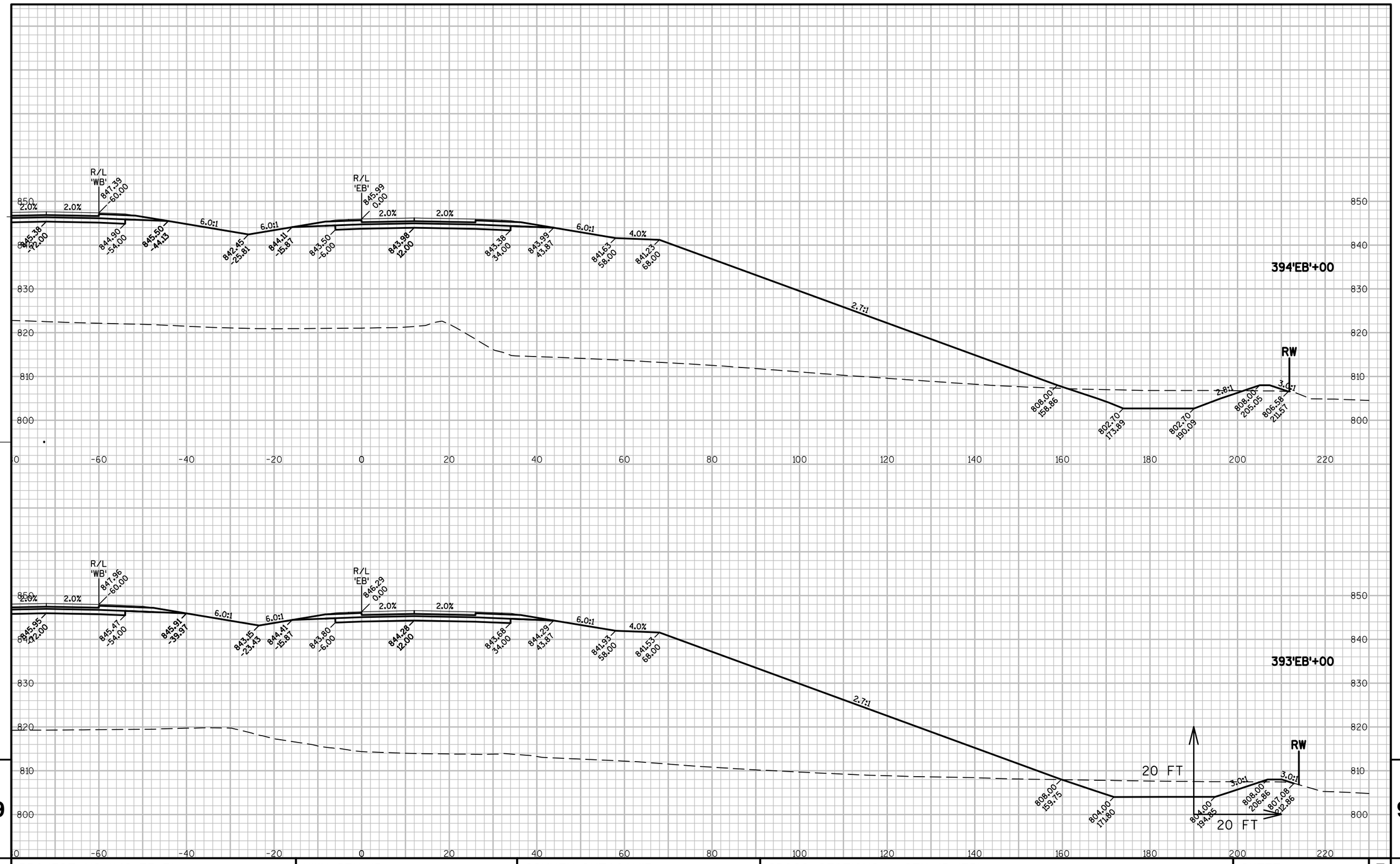

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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
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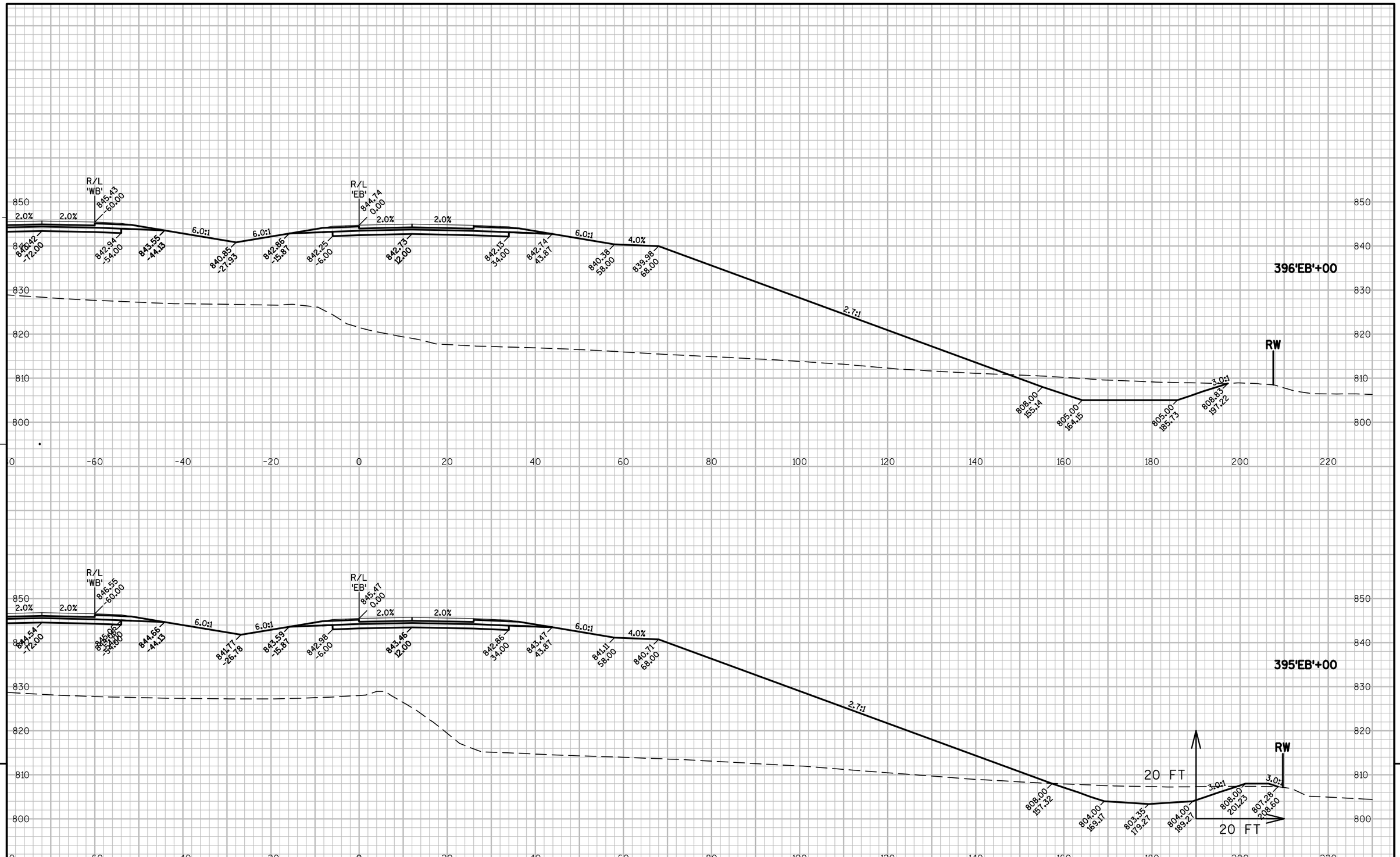
PLOT DATE : 8/20/2019 8:21 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090272_XS
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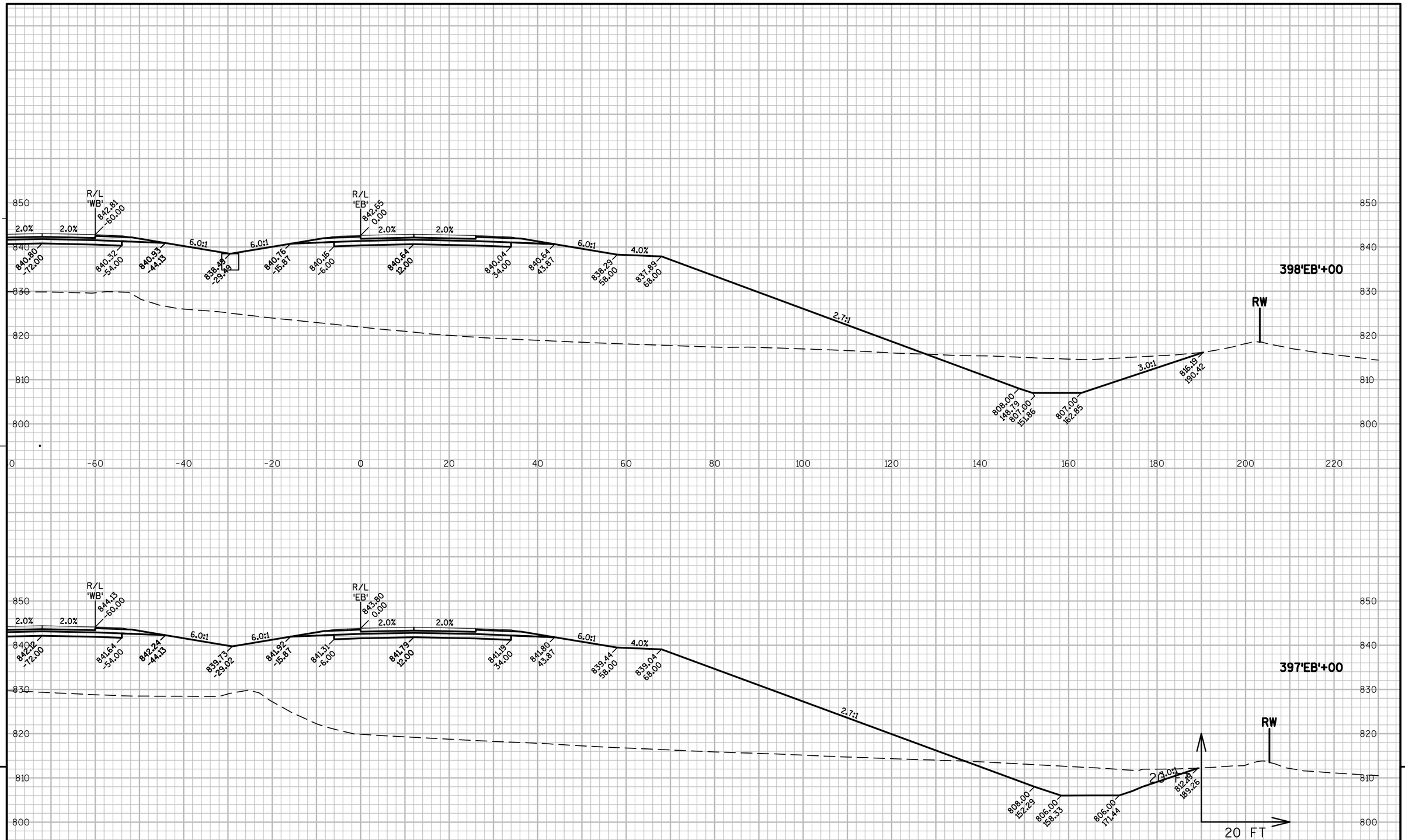
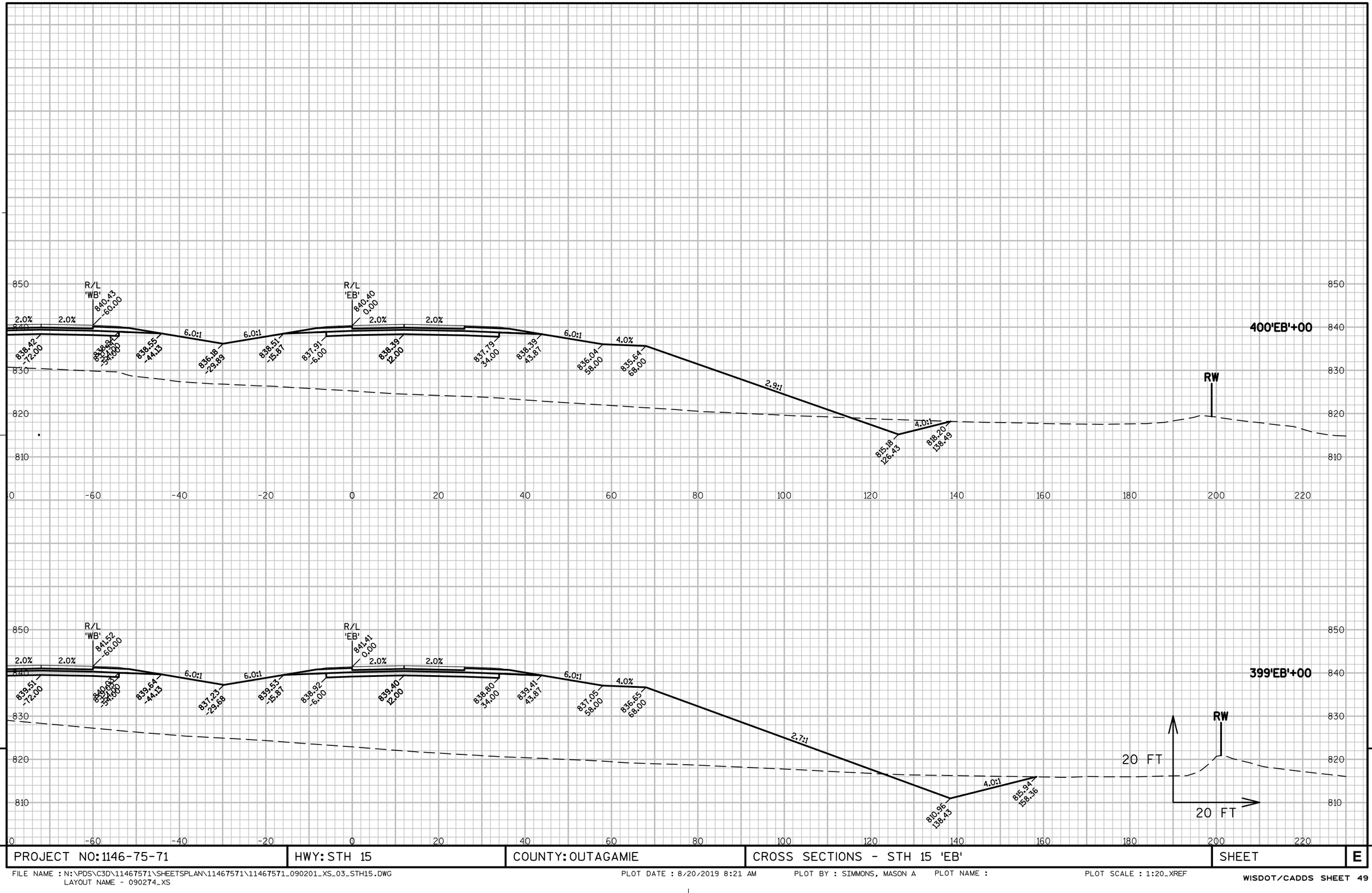


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090273_XS

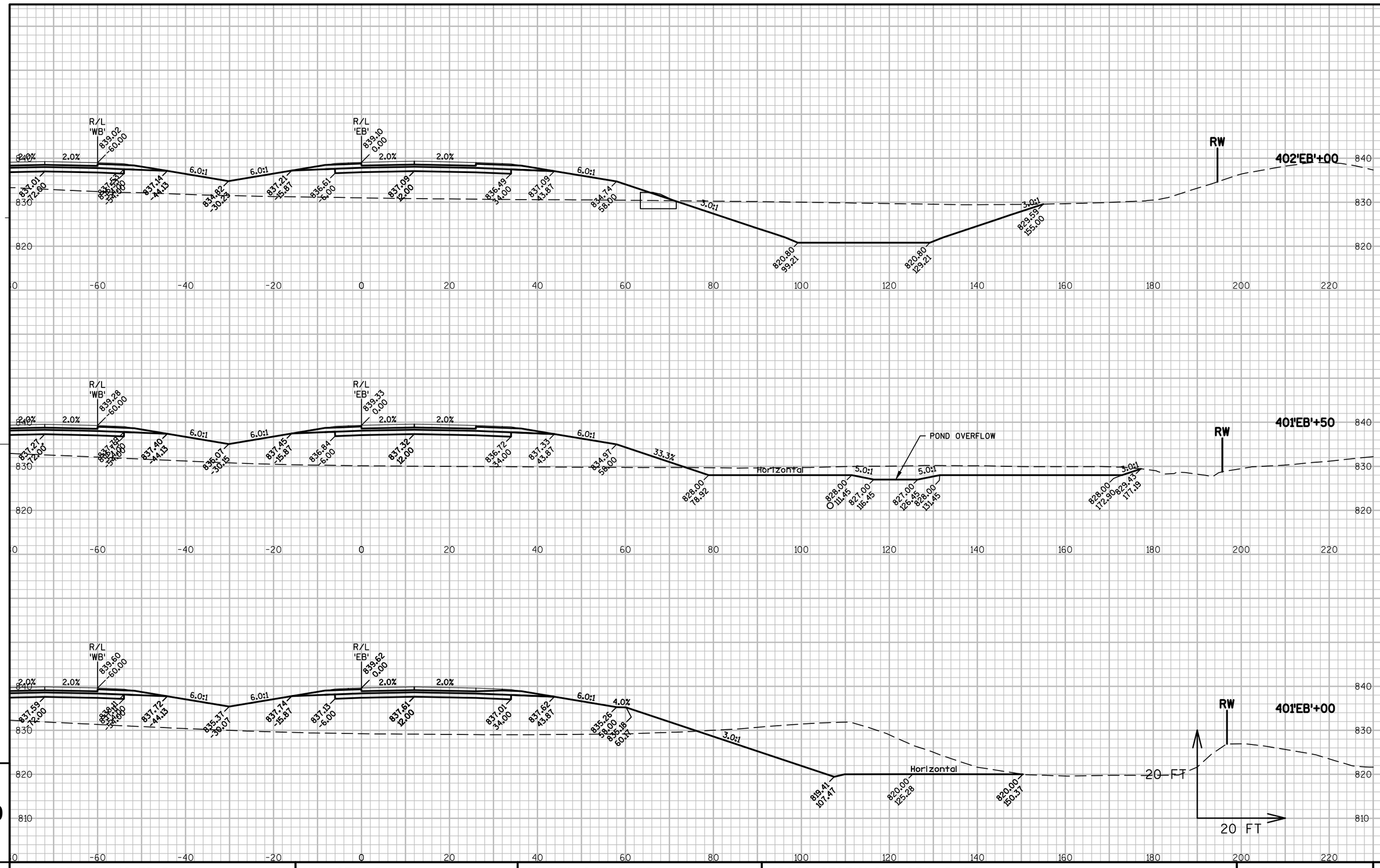
PLOT DATE : 8/20/2019 8:21 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090274_XS

PLOT DATE : 8/20/2019 8:21 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 'EB'	SHEET	E

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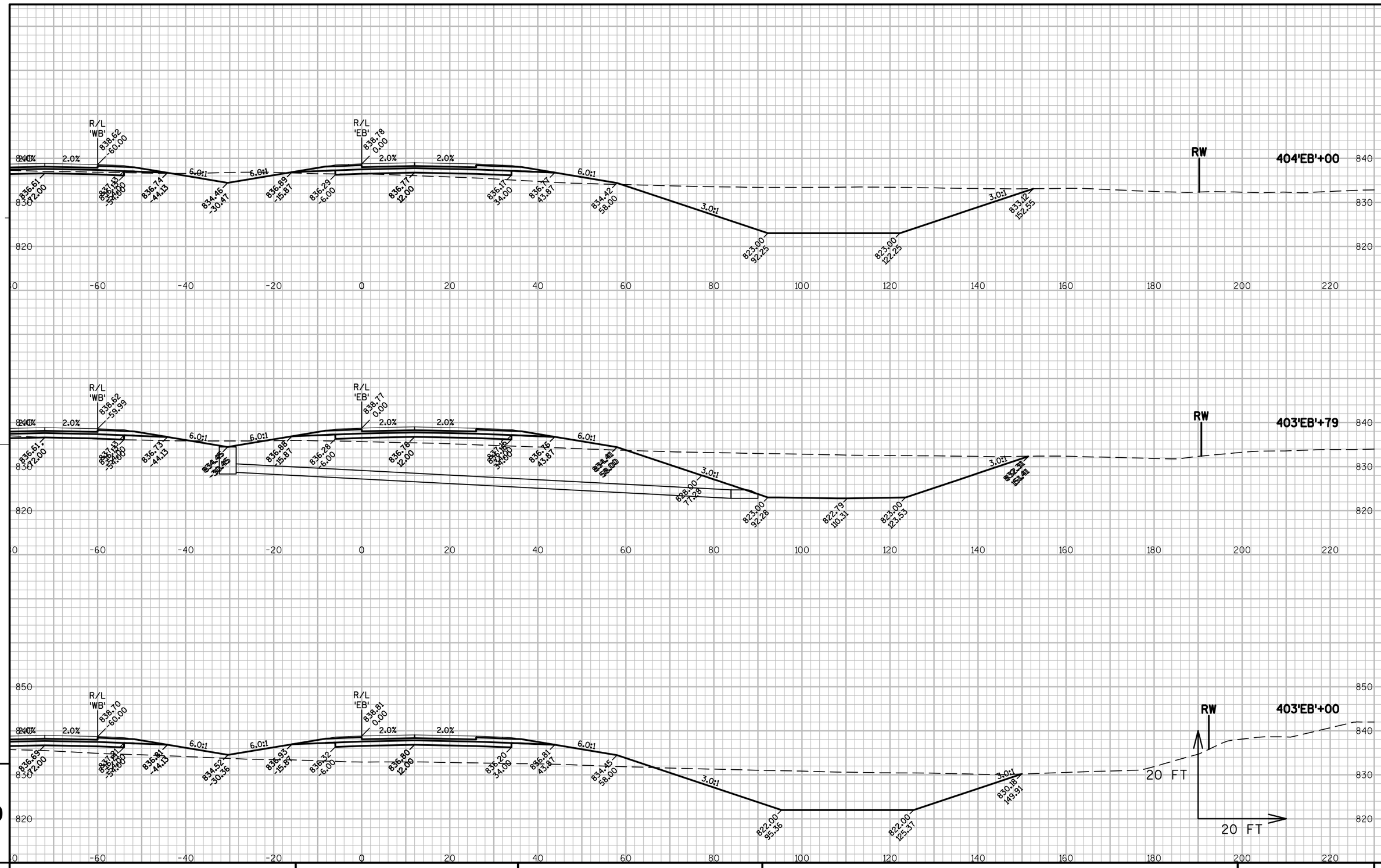
LAYOUT NAME - 090275_XS

PLOT DATE : 8/20/2019 8:21 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090276_XS

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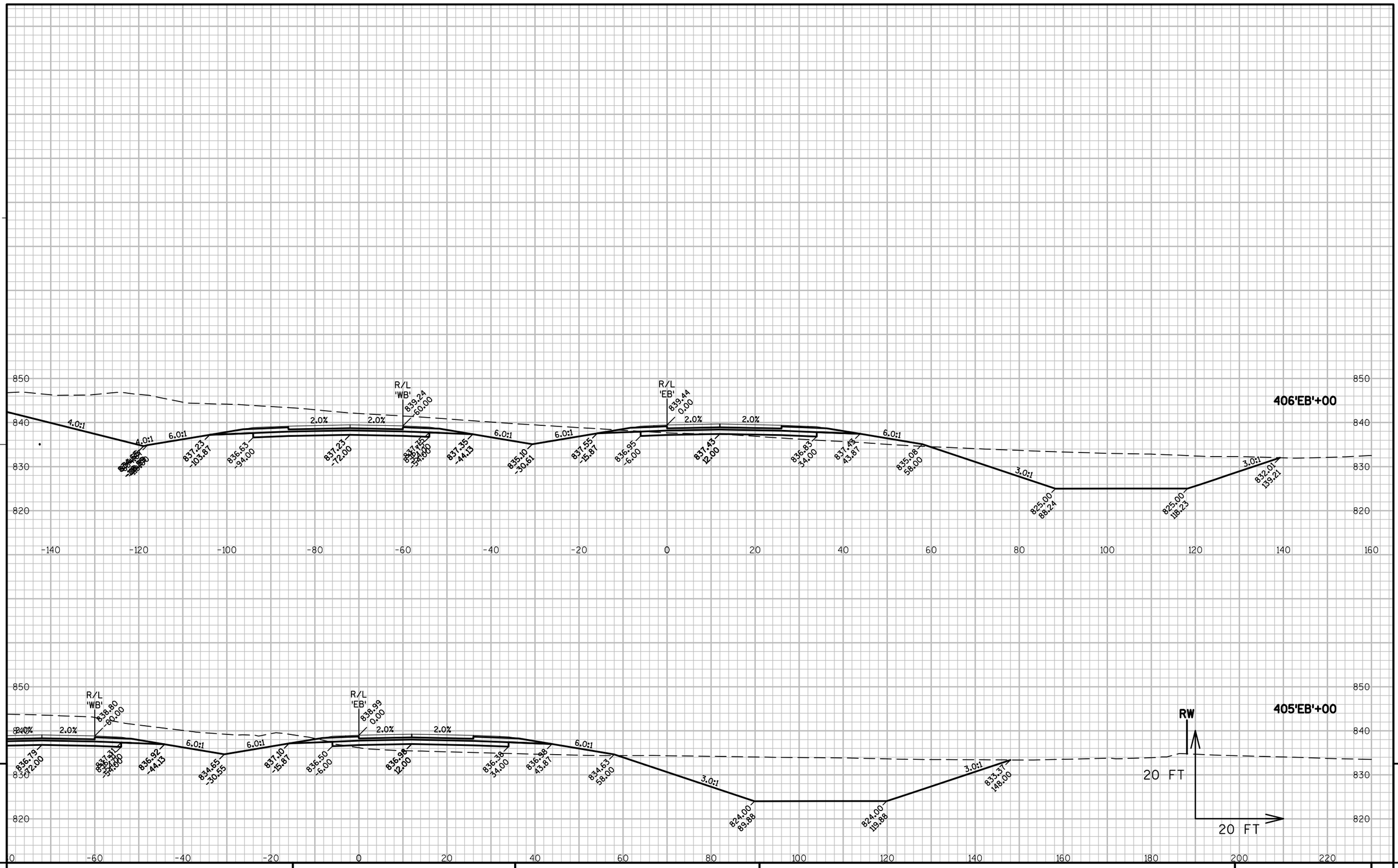


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

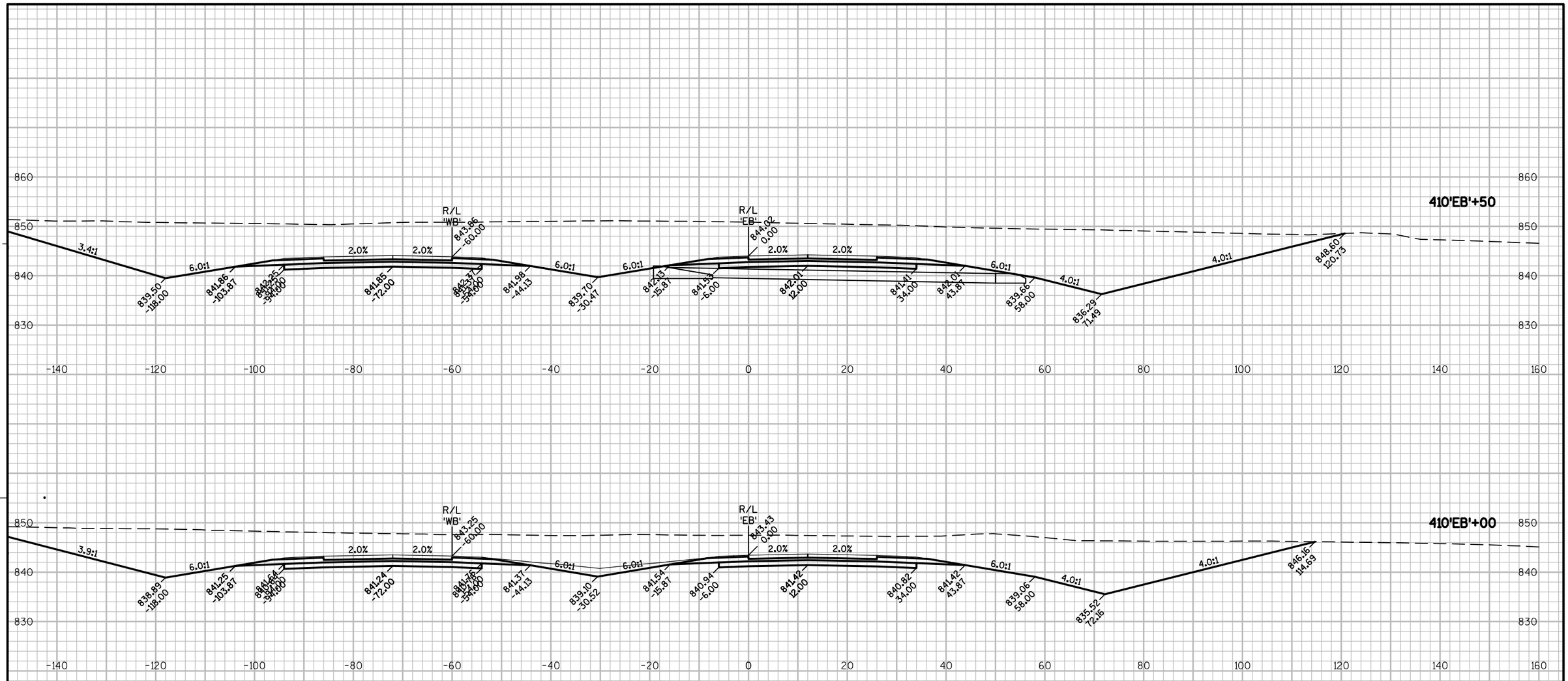
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_03_STH15.DWG
LAYOUT NAME - 090277_XS

PLOT DATE : 8/20/2019 8:22 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090280_XS

PLOT DATE : 8/20/2019 8:31 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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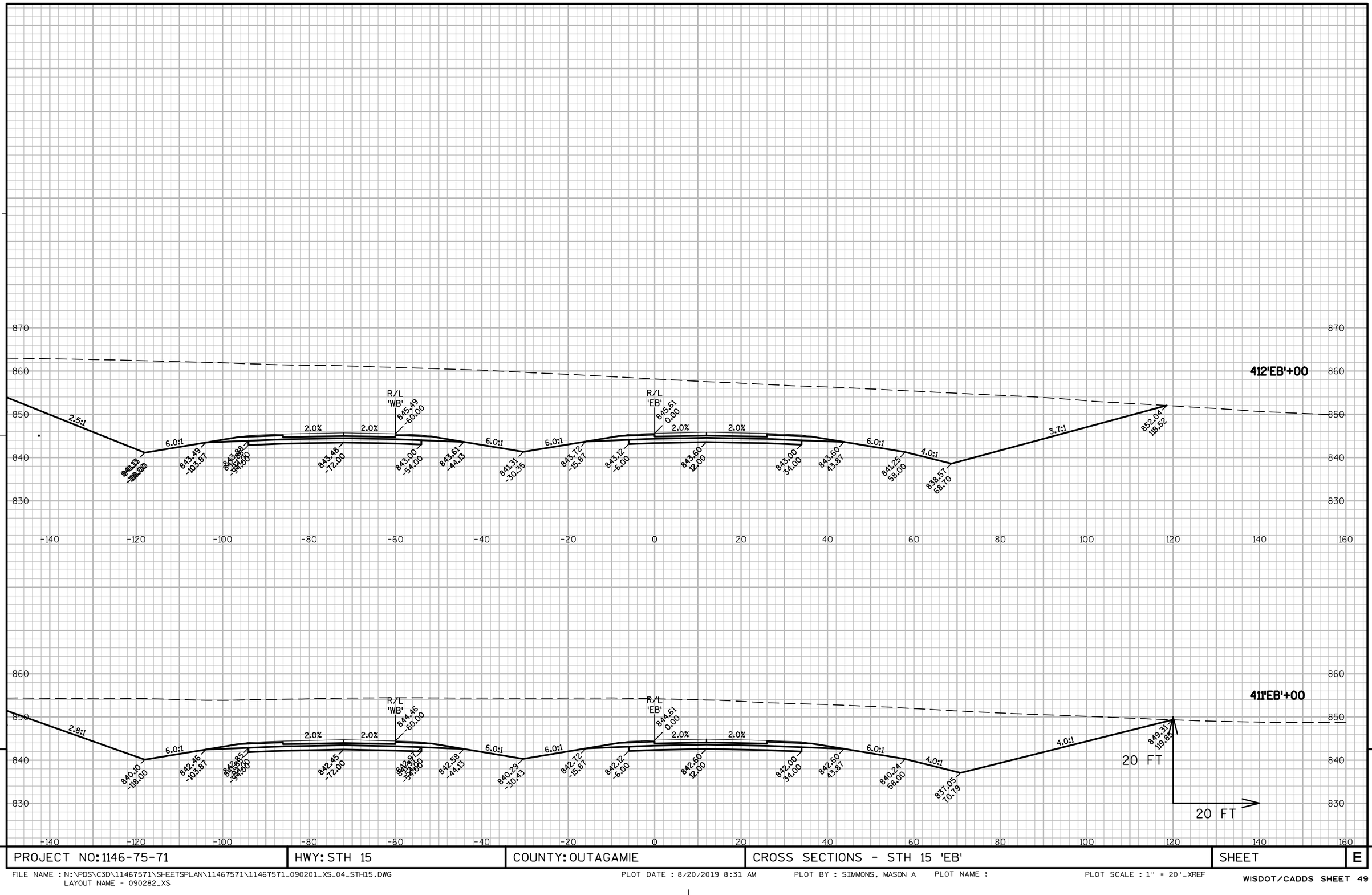
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

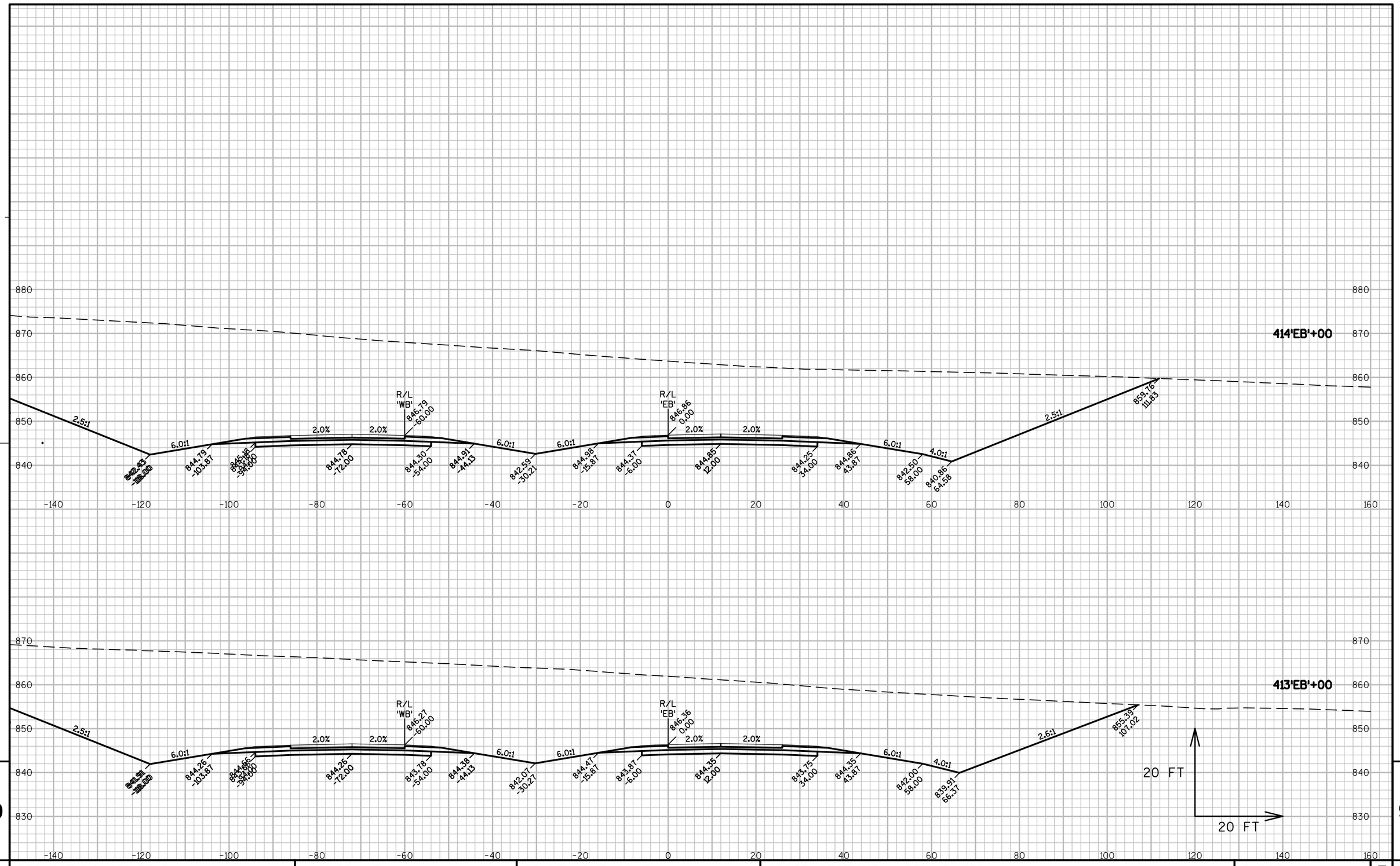
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090281_XS
PLOT DATE : 8/20/2019 8:31 AM
PLOT BY : SIMMONS, MASON A
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090282_XS

PLOT DATE : 8/20/2019 8:31 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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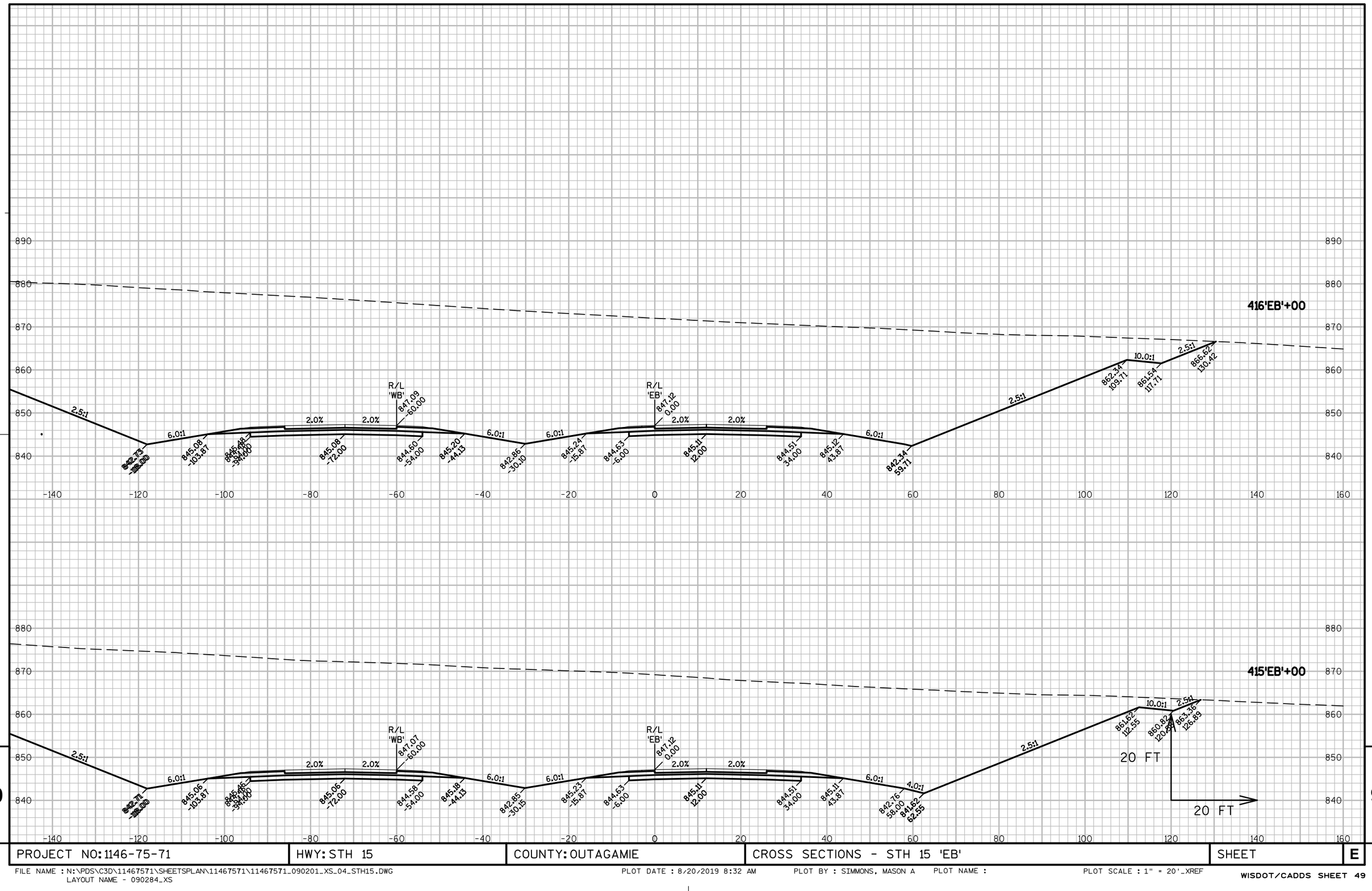
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090283_XS

PLOT DATE : 8/20/2019 8:31 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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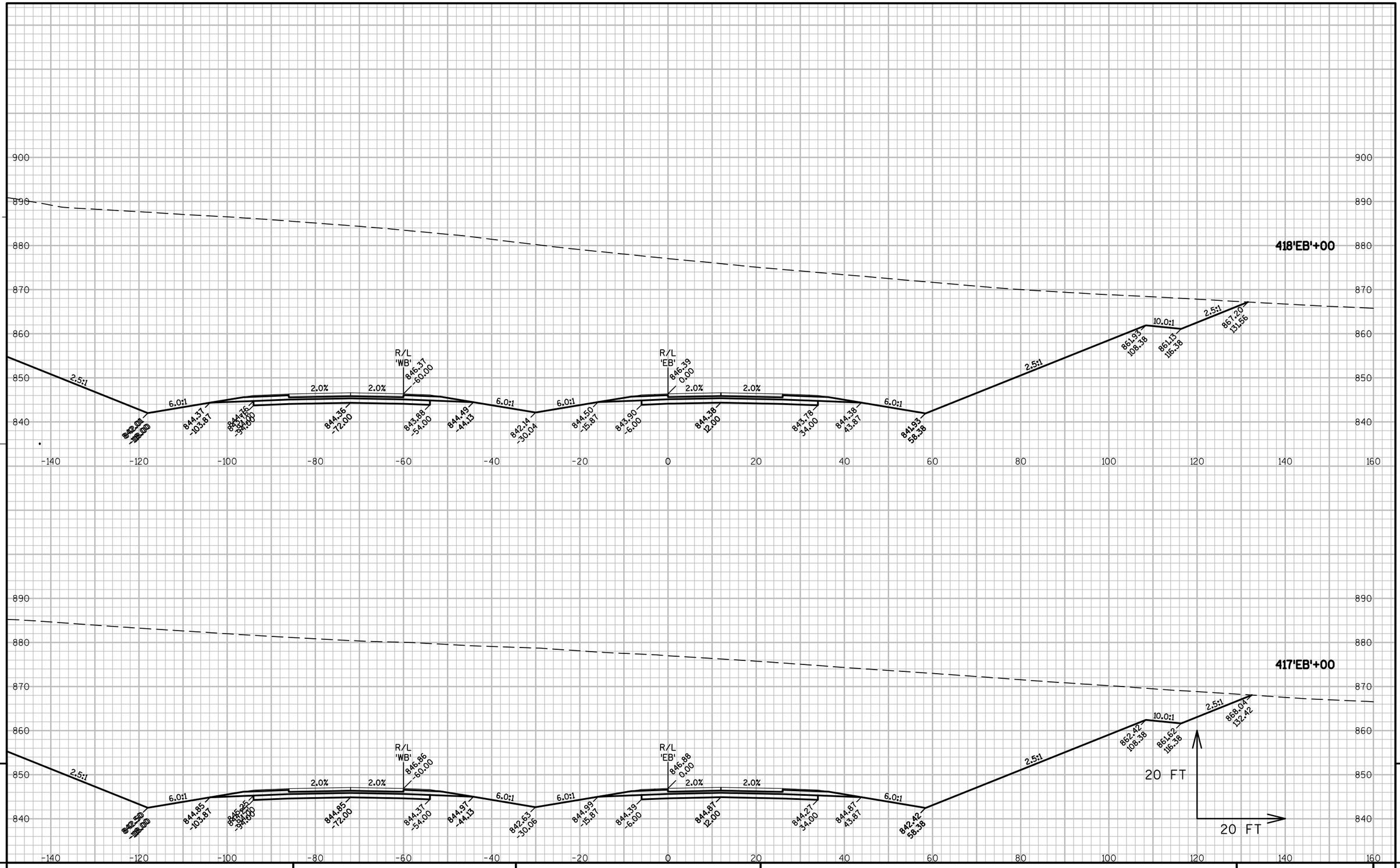
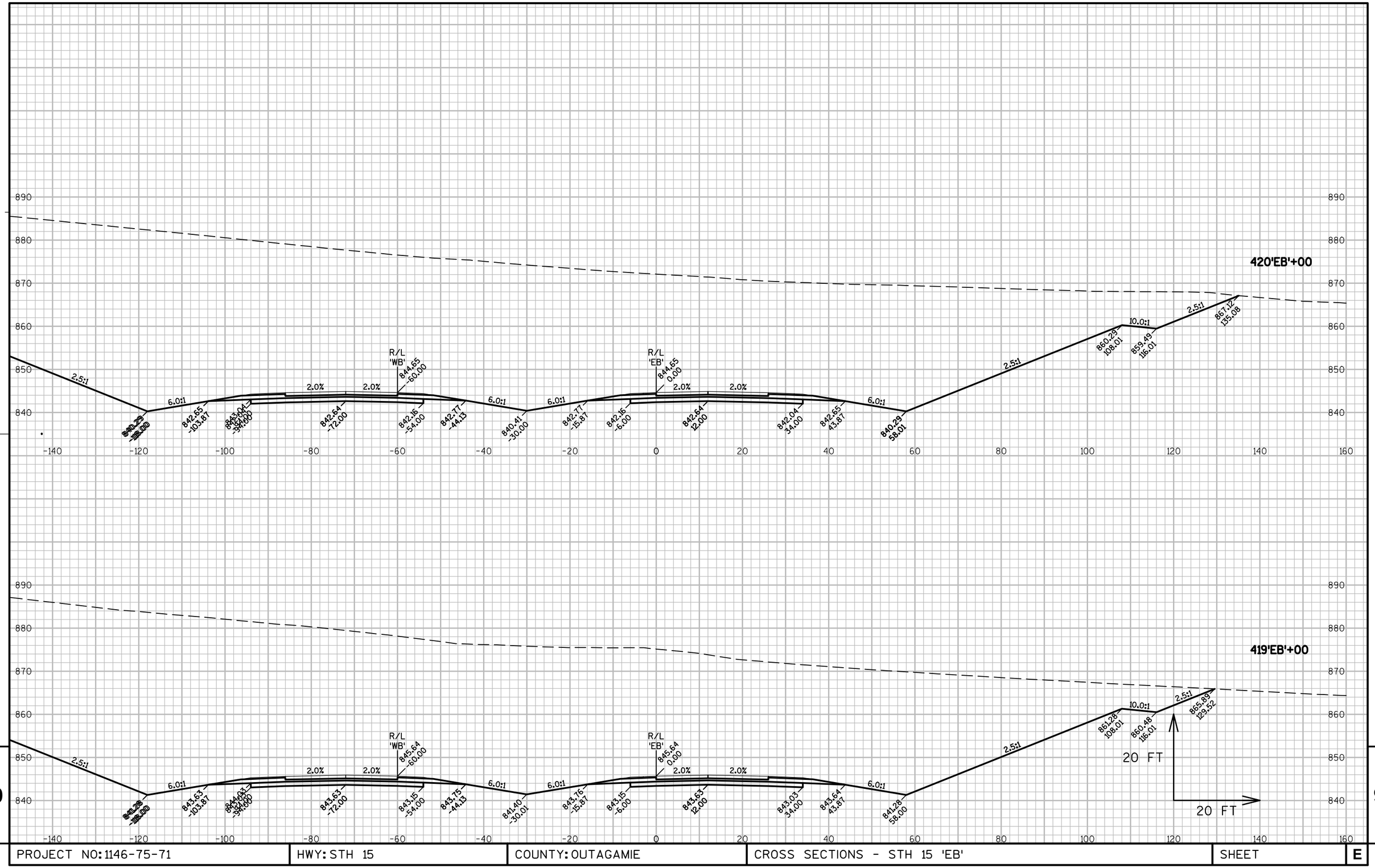
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090284_XS
PLOT DATE : 8/20/2019 8:32 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090285_XS
PLOT DATE : 8/20/2019 8:32 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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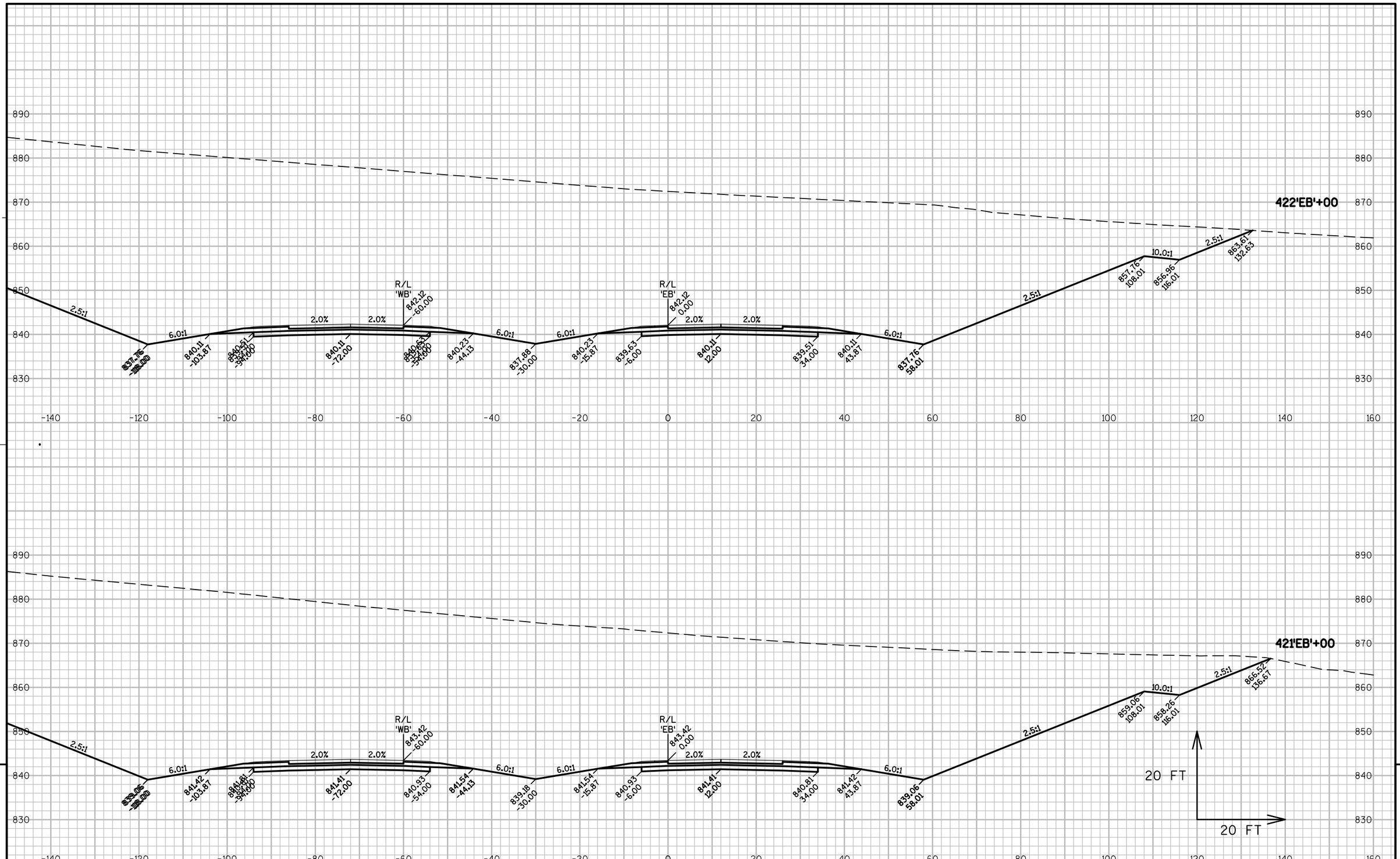
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090286_XS
PLOT DATE : 8/20/2019 8:32 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



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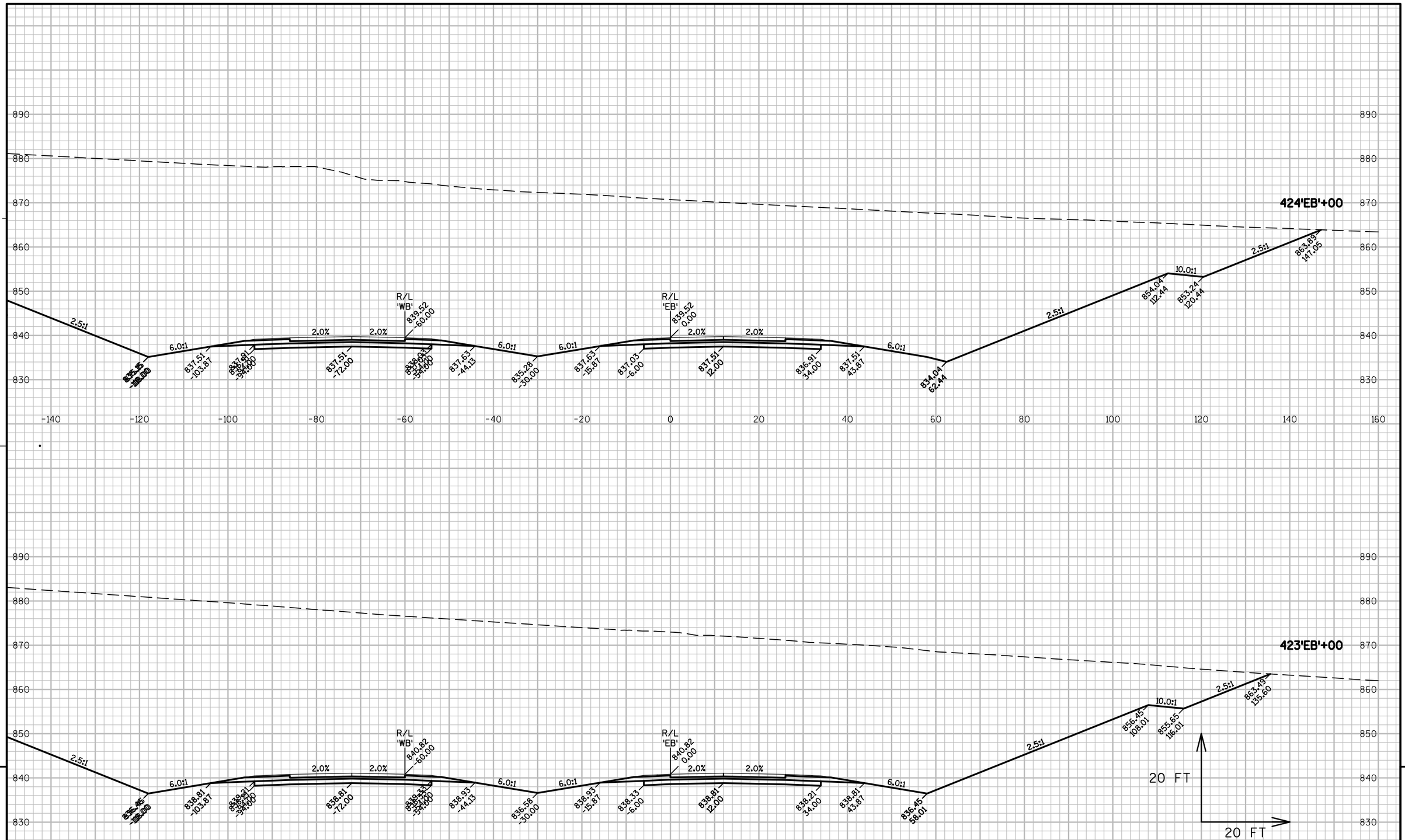
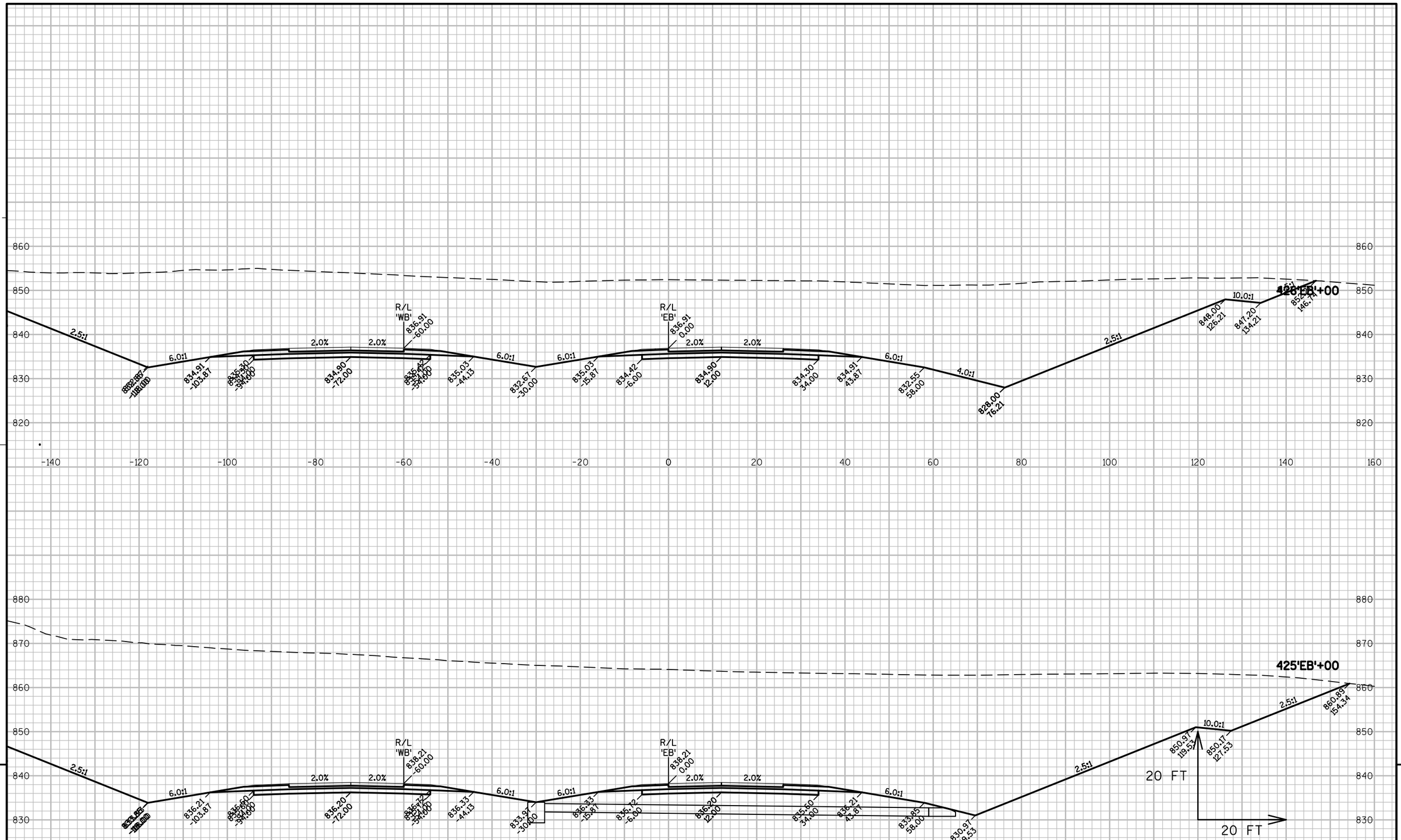
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090287_XS
PLOT DATE : 8/20/2019 8:32 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090288_XS
PLOT DATE : 8/20/2019 8:32 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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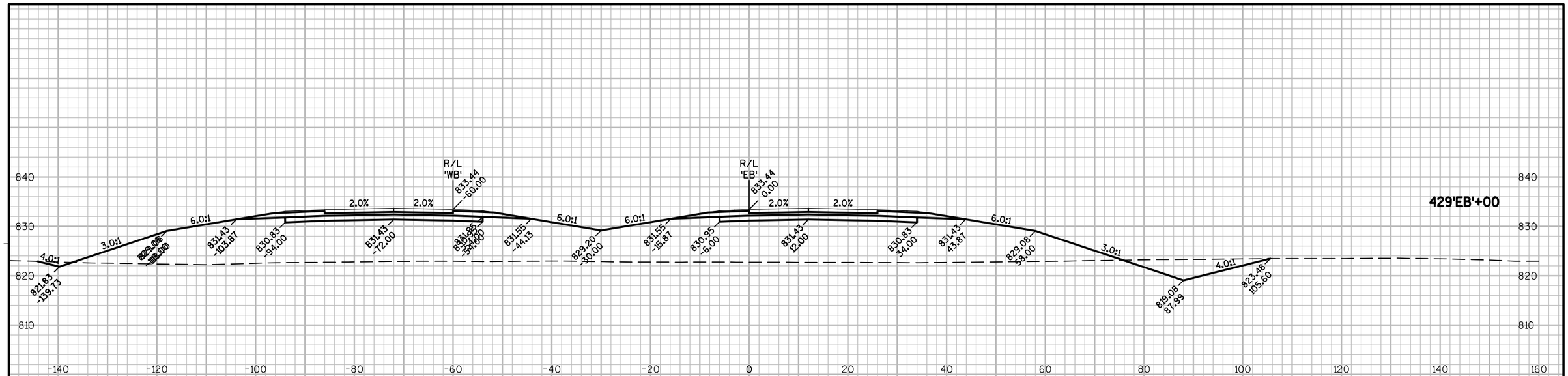
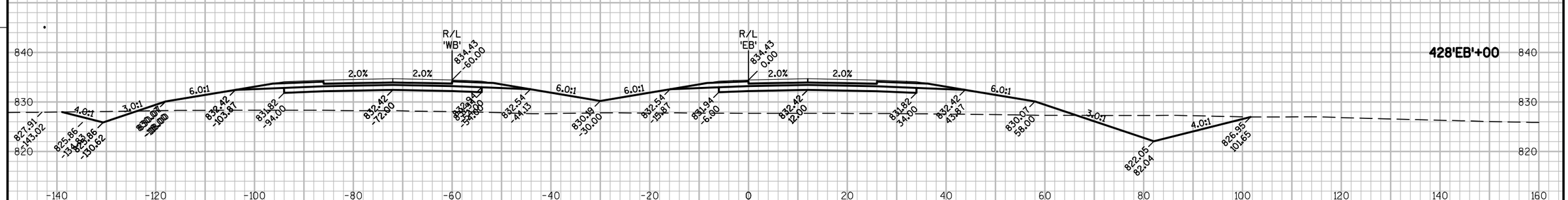
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090289_XS
PLOT DATE : 8/20/2019 8:32 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090290_XS

PLOT DATE : 8/20/2019 8:33 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	E

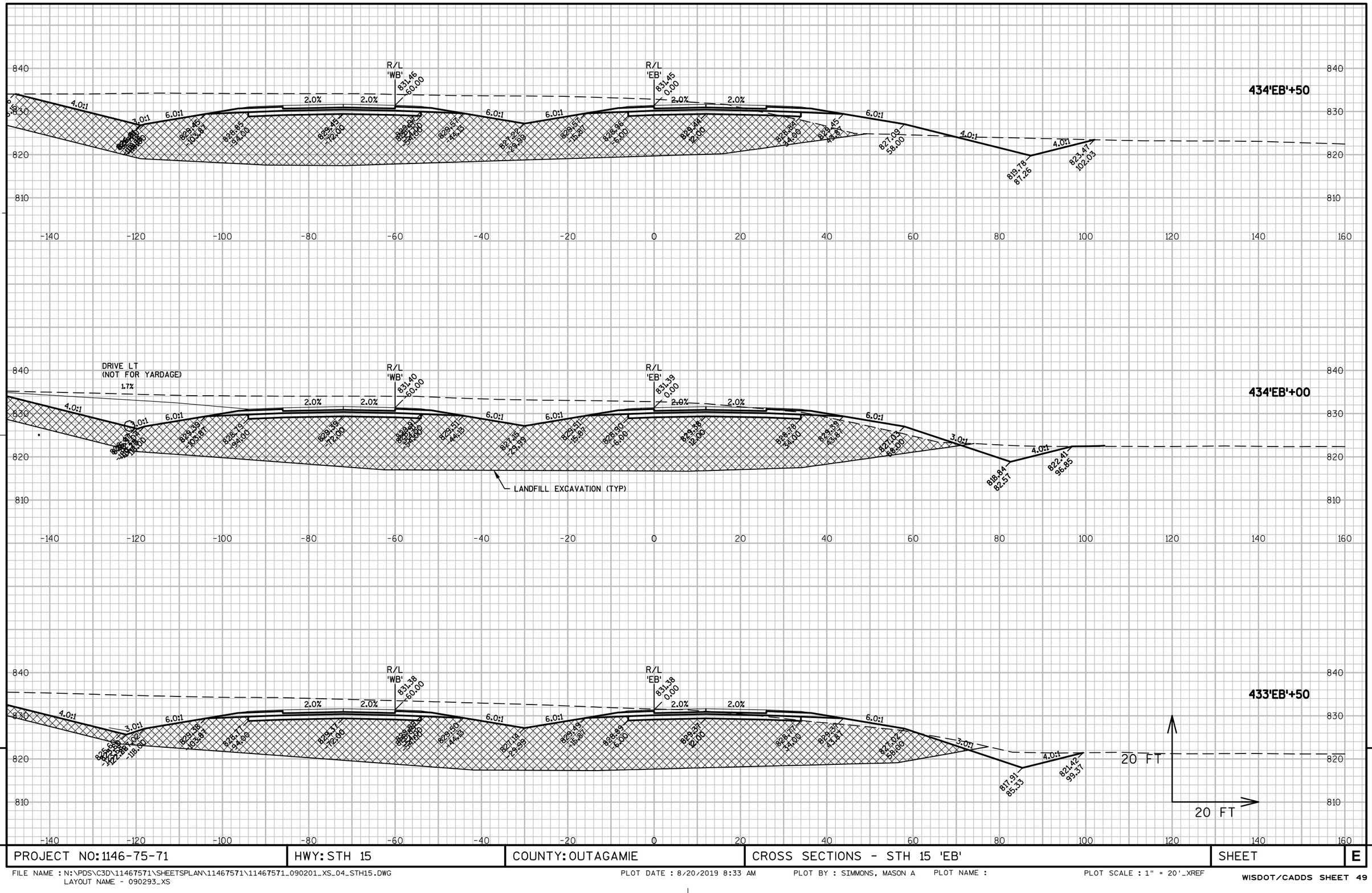
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090291_XS

PLOT DATE : 8/20/2019 8:33 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090292_XS

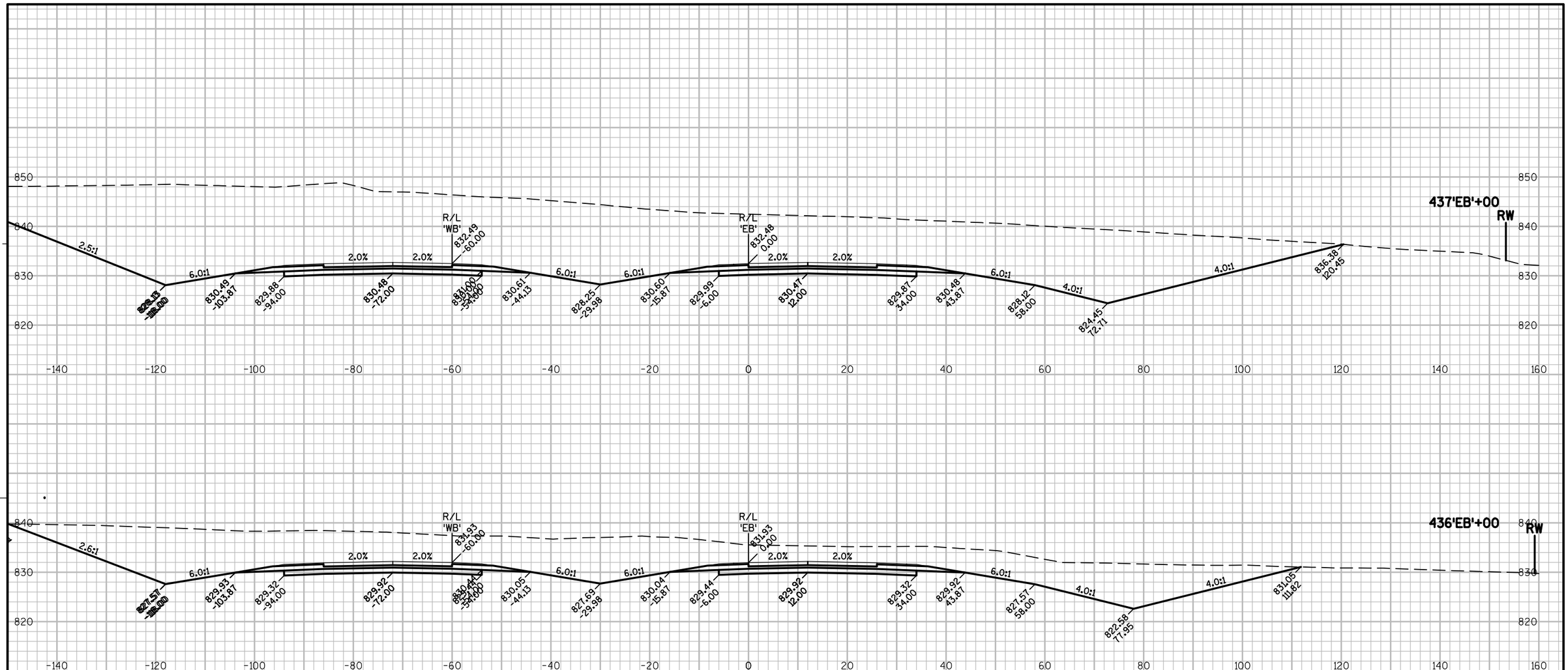
PLOT DATE : 8/20/2019 8:33 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090293_XS

PLOT DATE : 8/20/2019 8:33 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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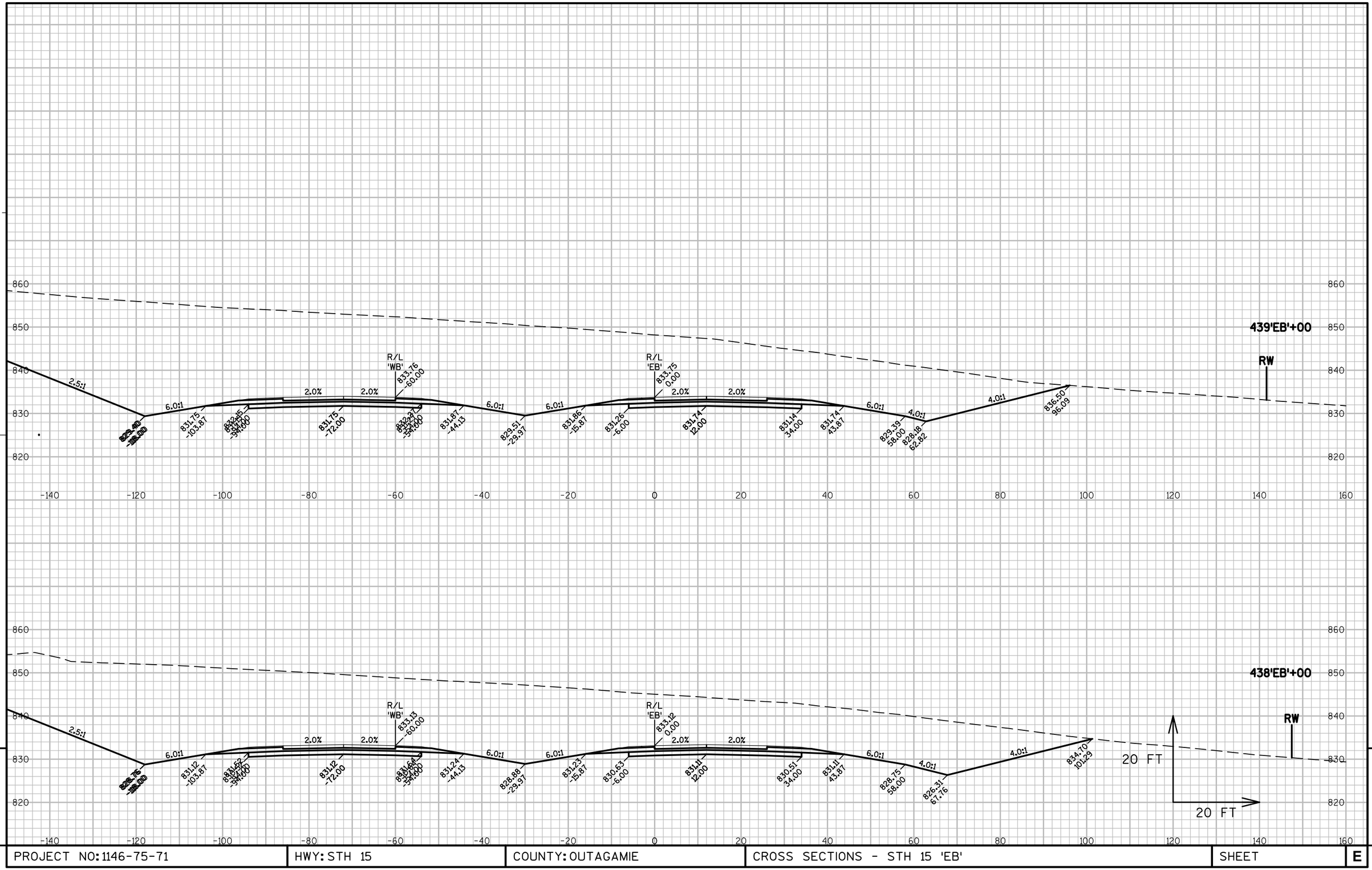
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090294_XS
PLOT DATE : 8/20/2019 8:33 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



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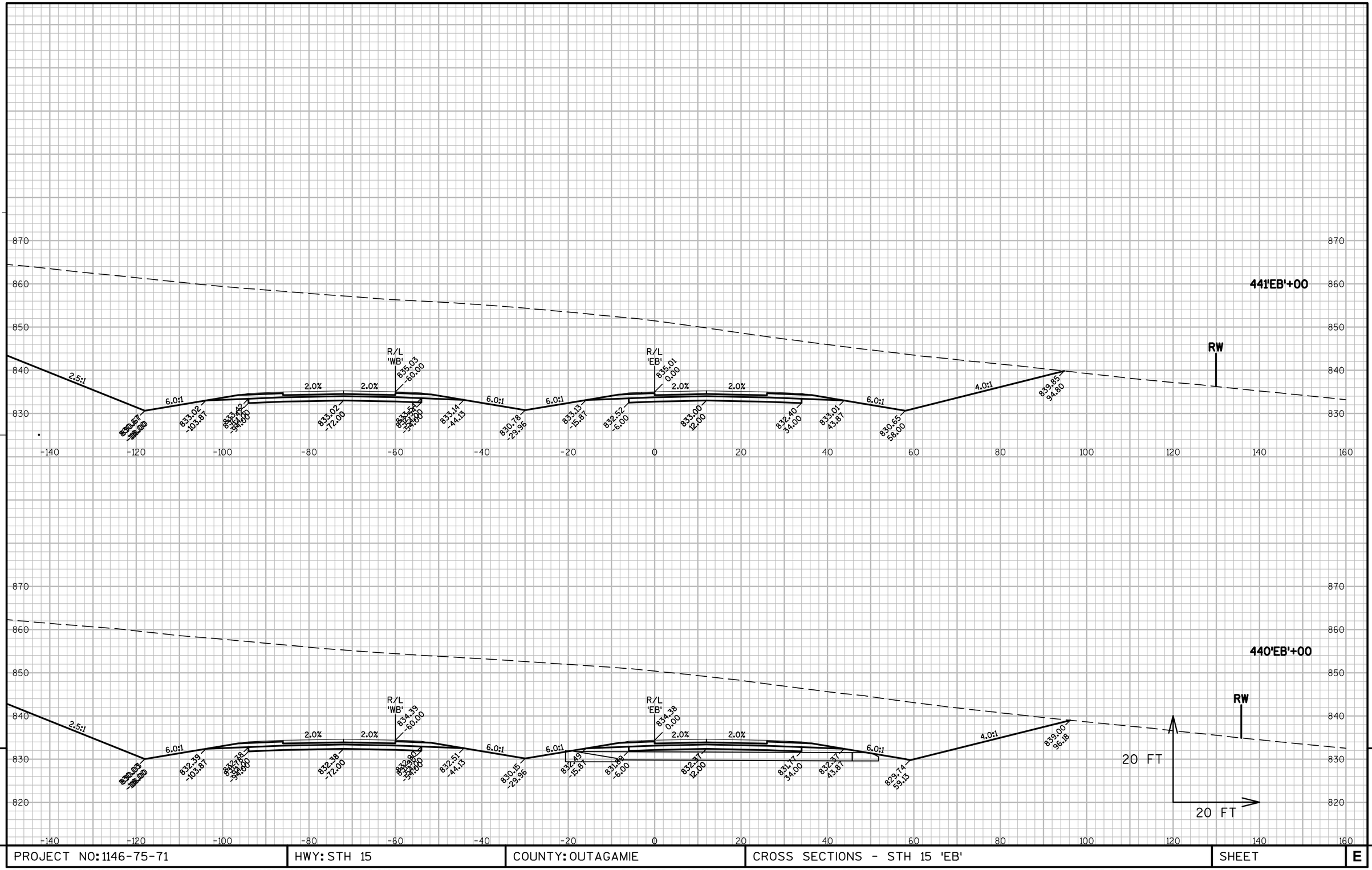
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090295_XS

PLOT DATE : 8/20/2019 8:33 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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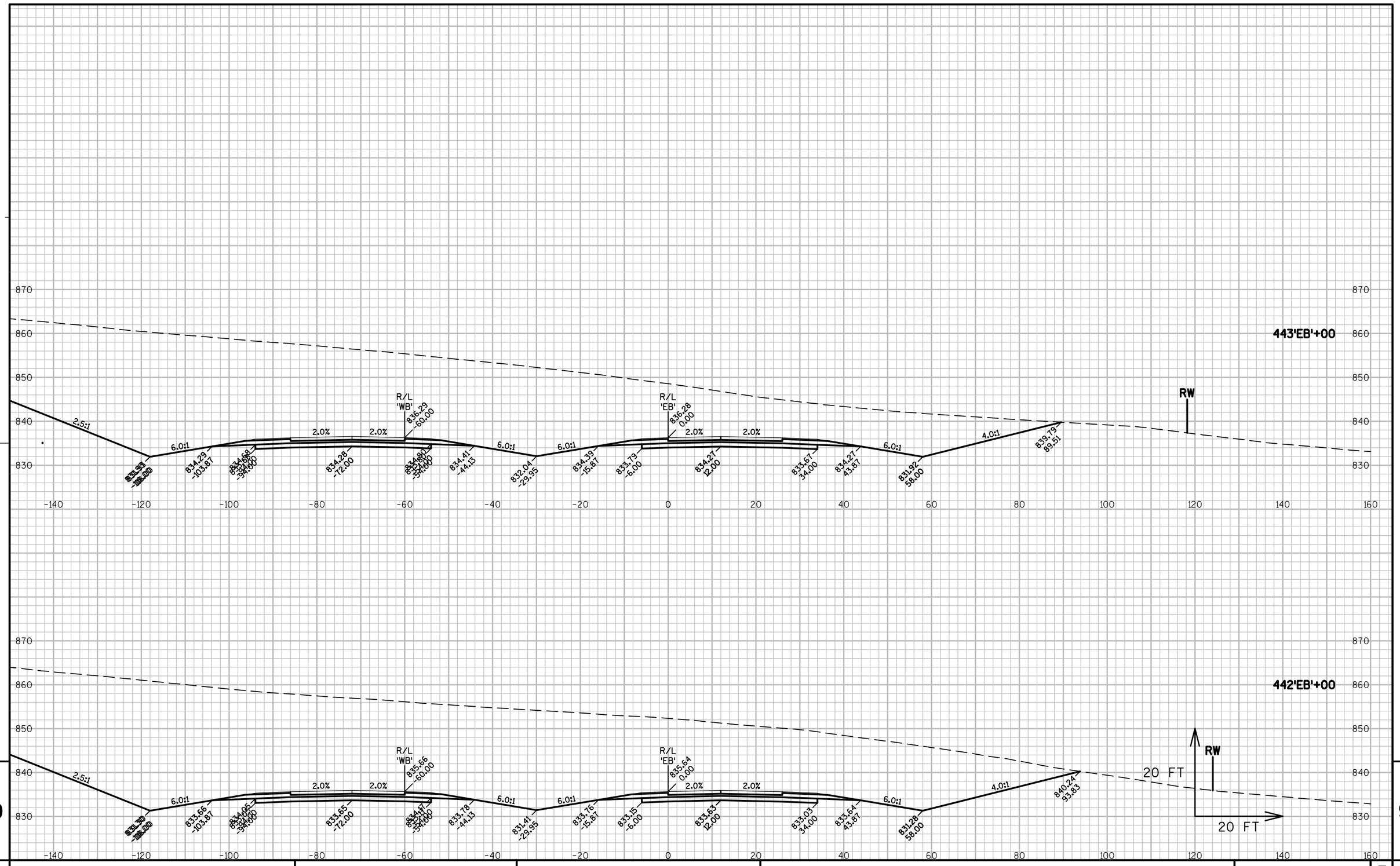
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090296_XS

PLOT DATE : 8/20/2019 8:33 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	E

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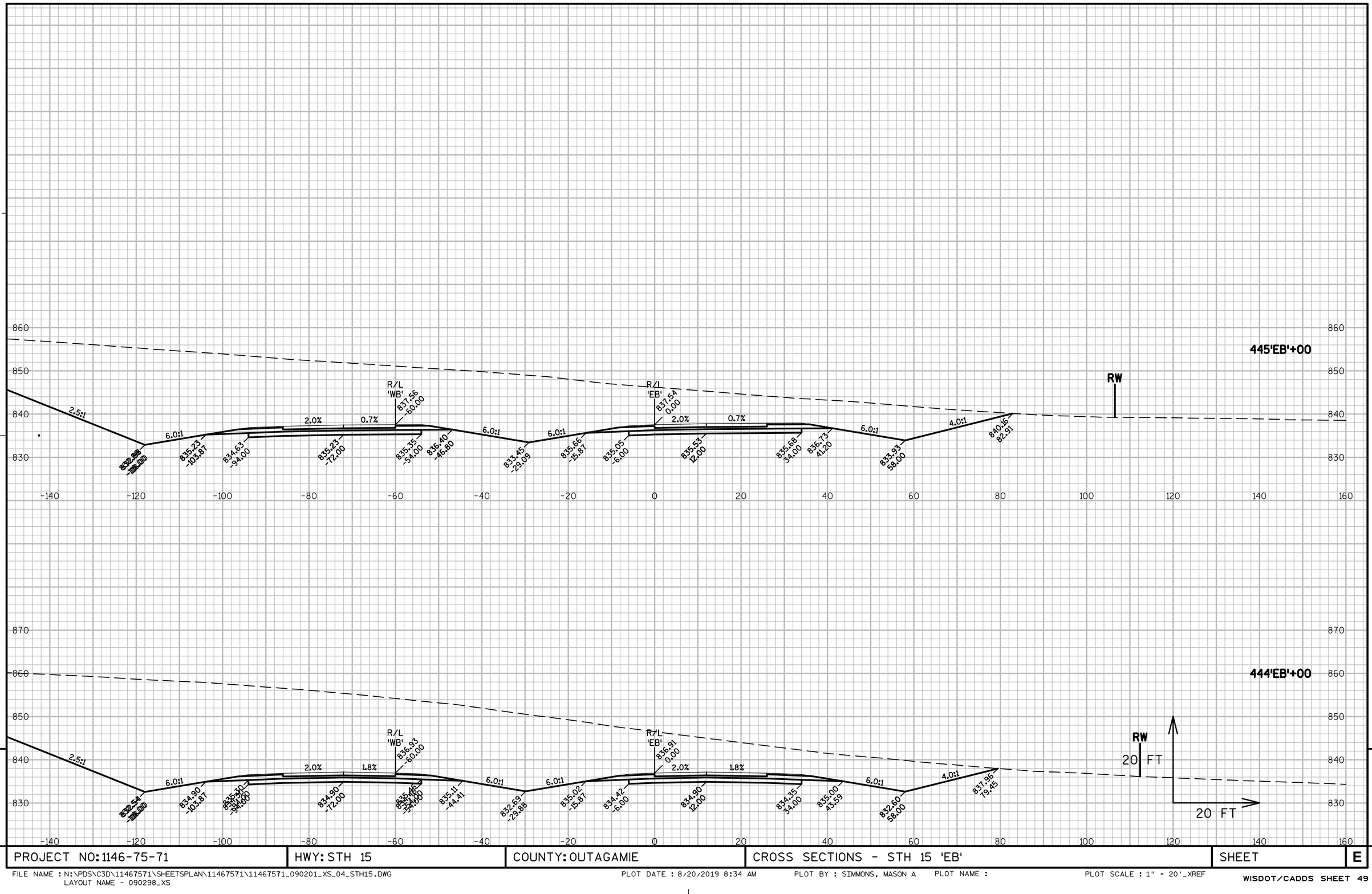
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090297_XS

PLOT DATE : 8/20/2019 8:34 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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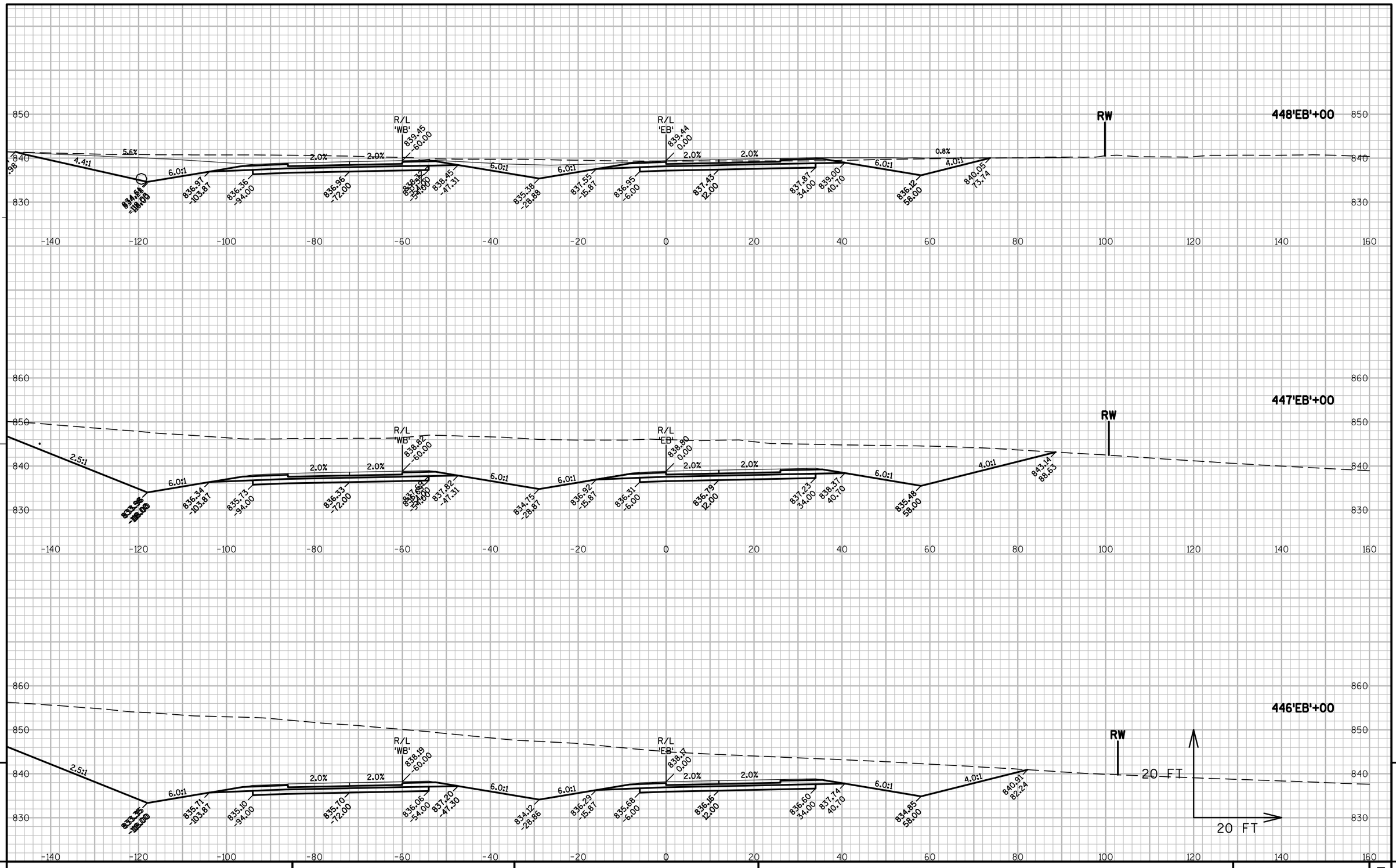
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 090298_XS

PLOT DATE : 8/20/2019 8:34 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
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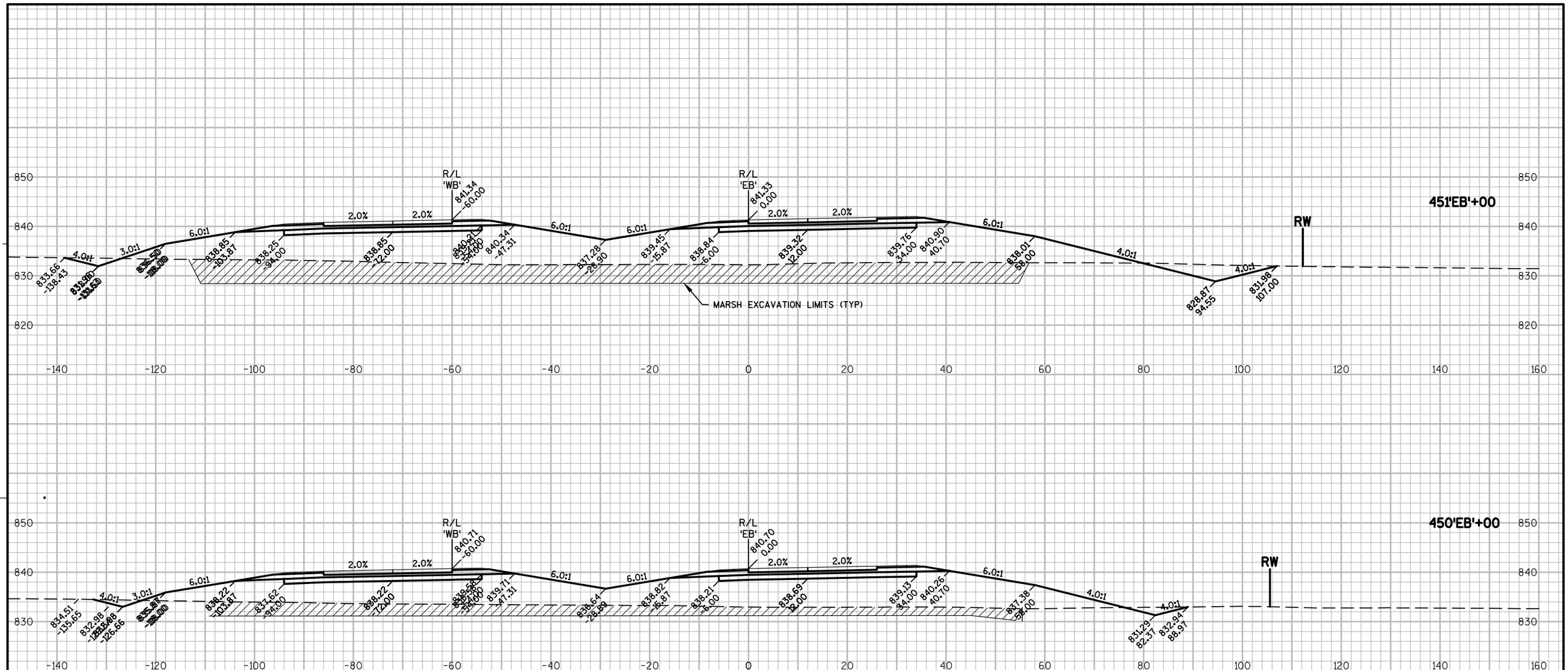
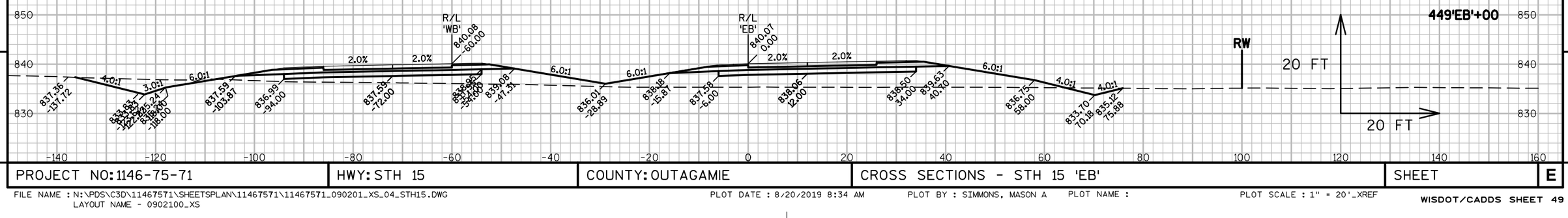
PLOT DATE : 8/20/2019 8:34 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF





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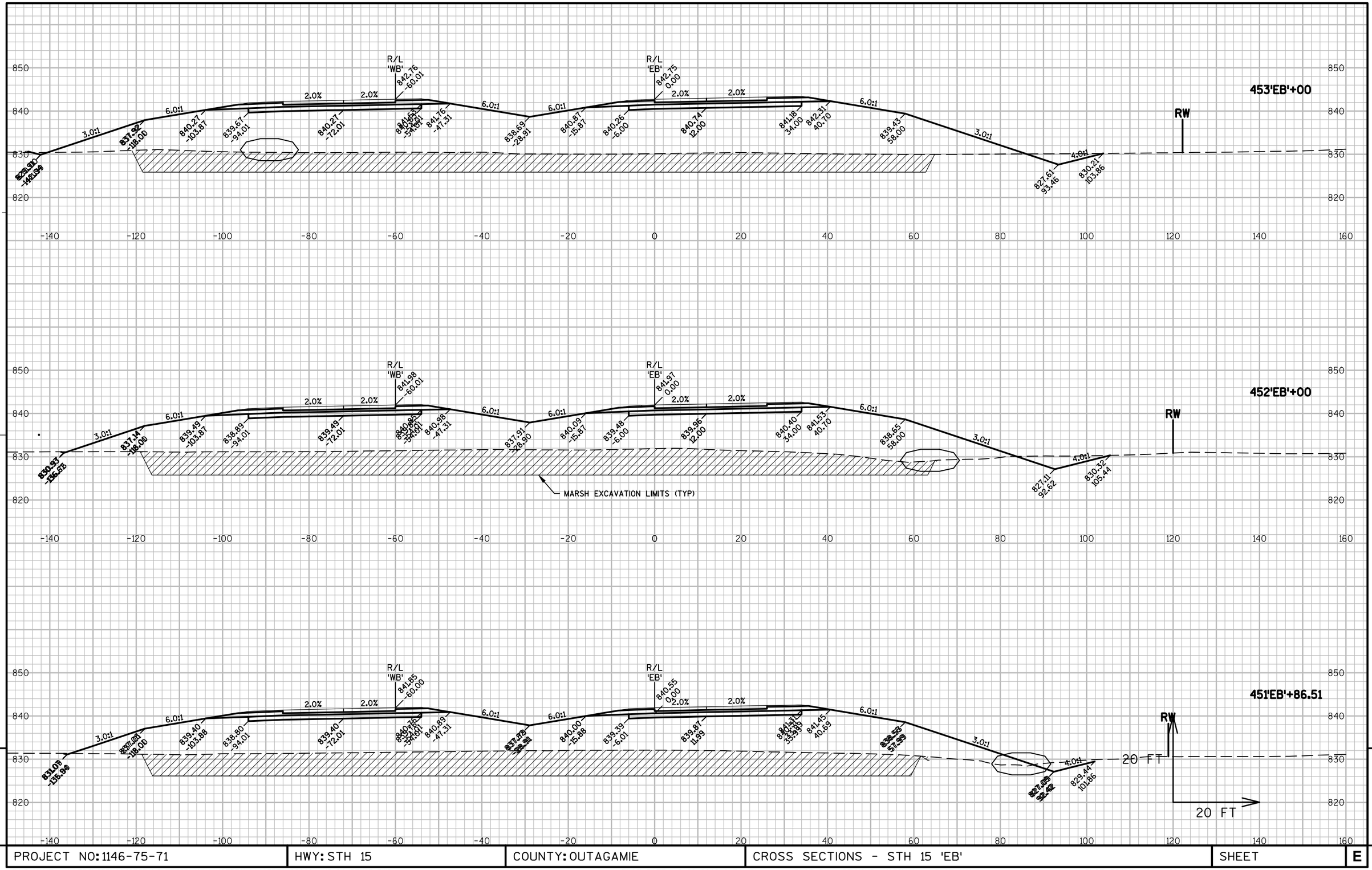
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 0902100_XS

PLOT DATE : 8/20/2019 8:34 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
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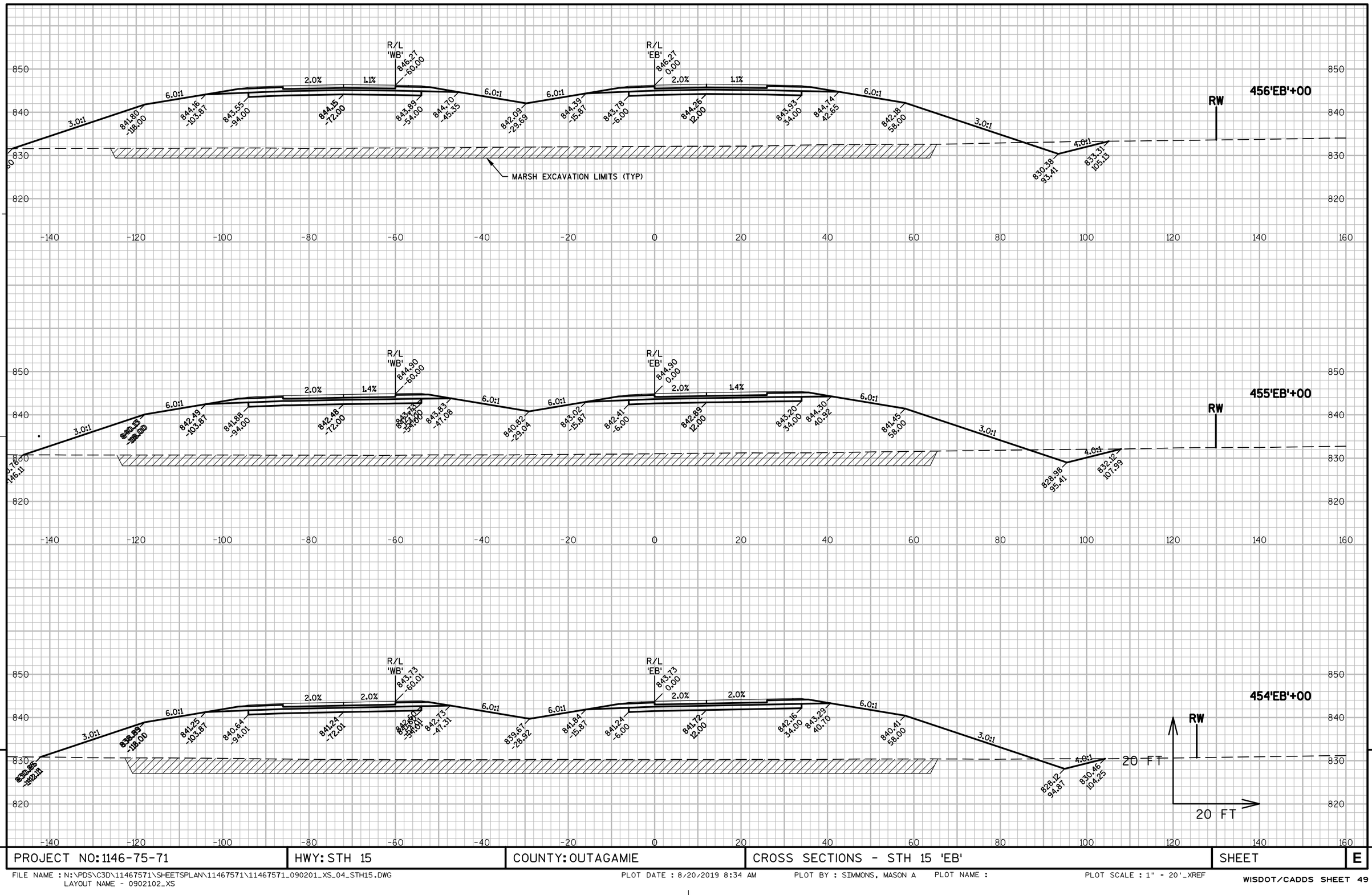
PLOT DATE : 8/20/2019 8:34 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

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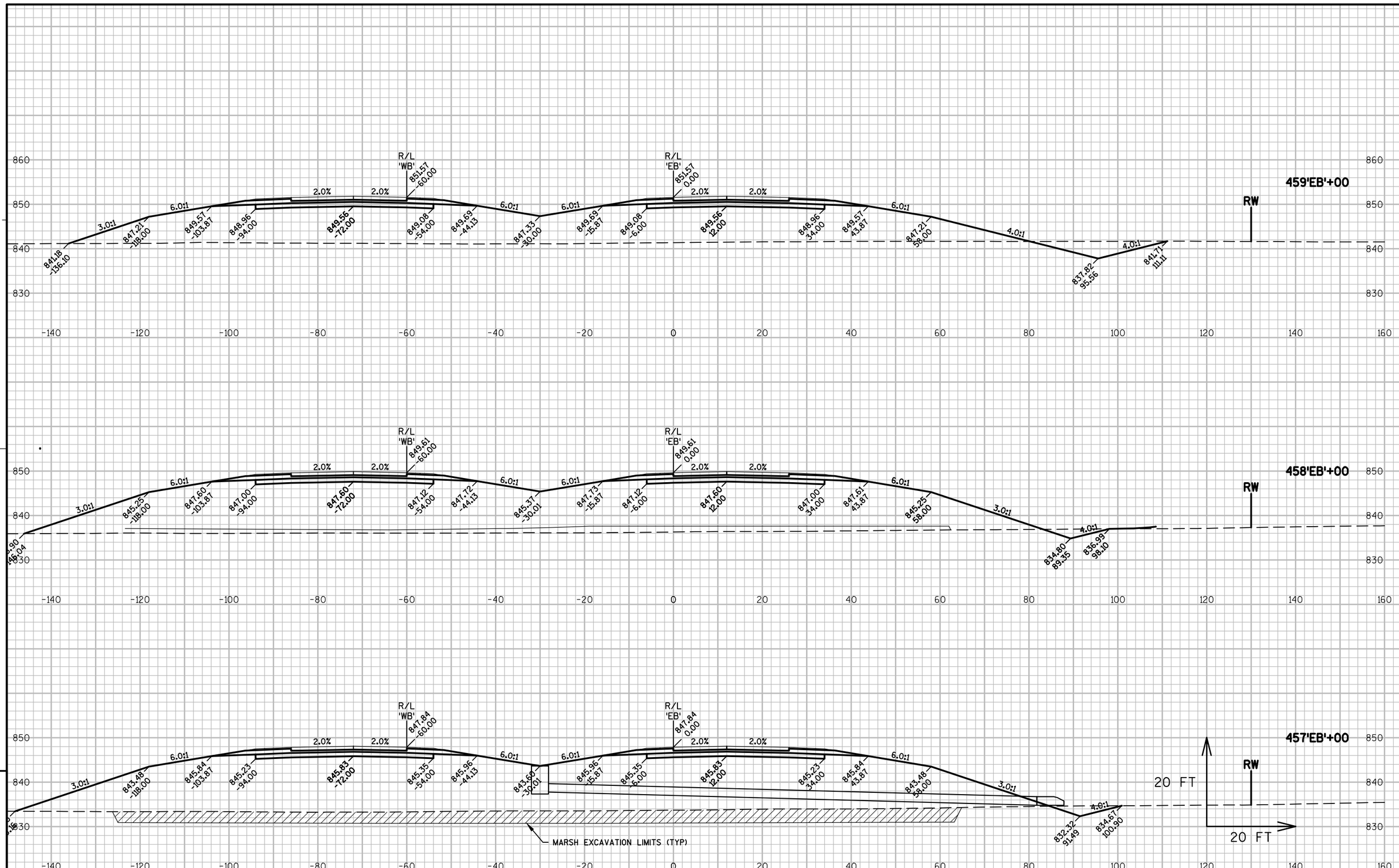
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 0902102_XS

PLOT DATE : 8/20/2019 8:34 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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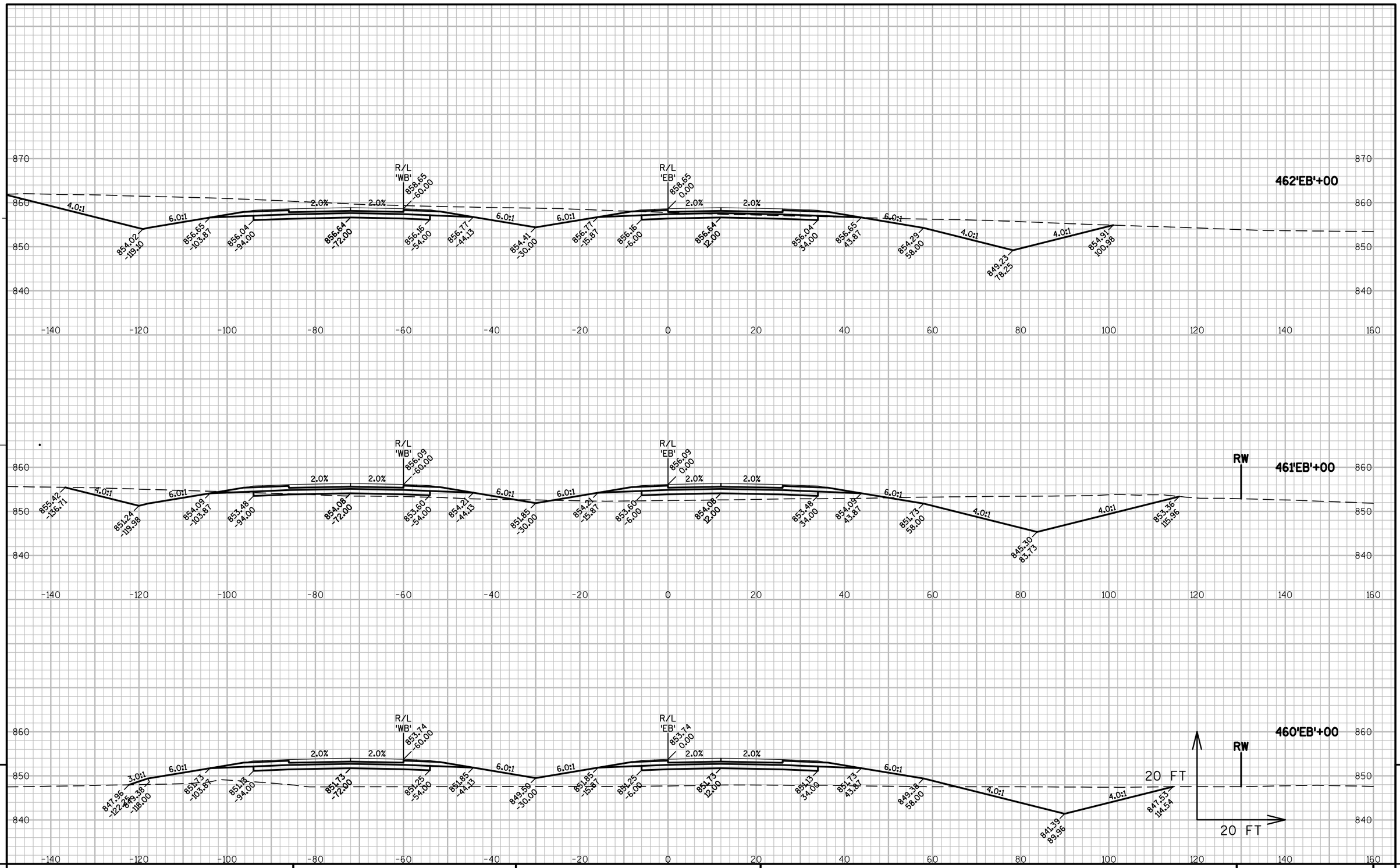
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 0902103_XS
PLOT DATE : 8/20/2019 8:34 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090201_XS_04_STH15.DWG
LAYOUT NAME - 0902104_XS
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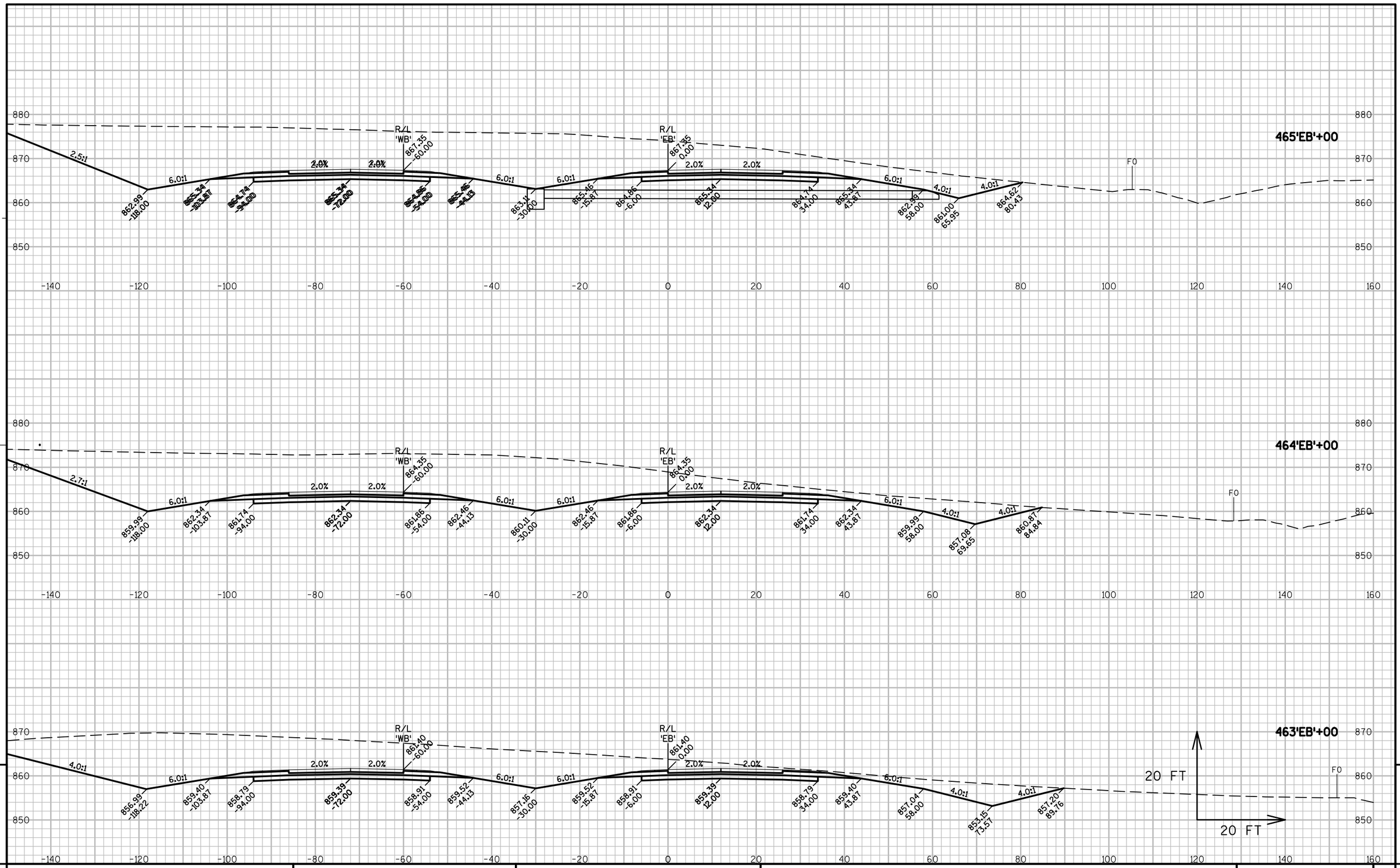

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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'EB'	SHEET	E

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LAYOUT NAME - 0902105_XS

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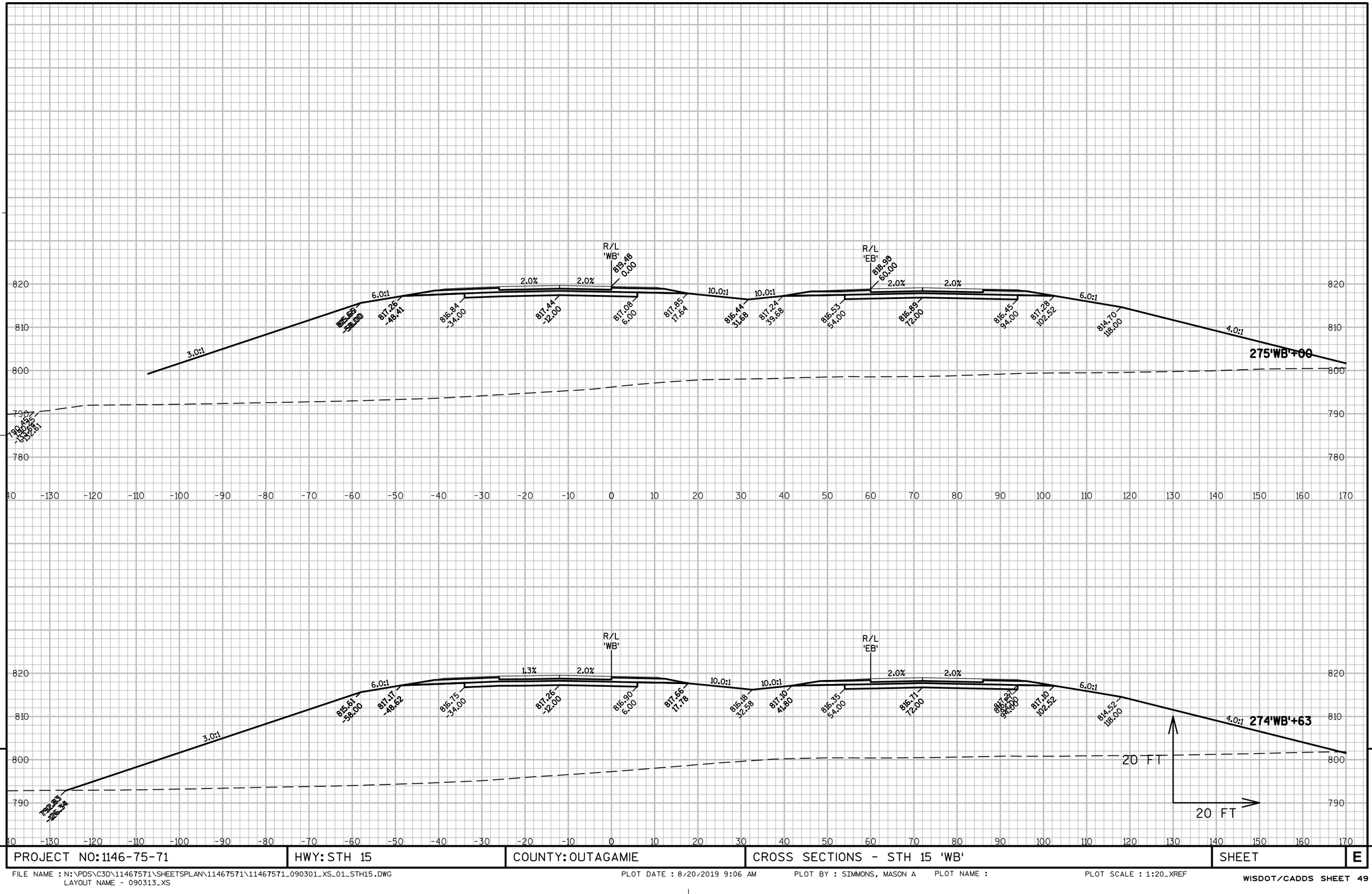

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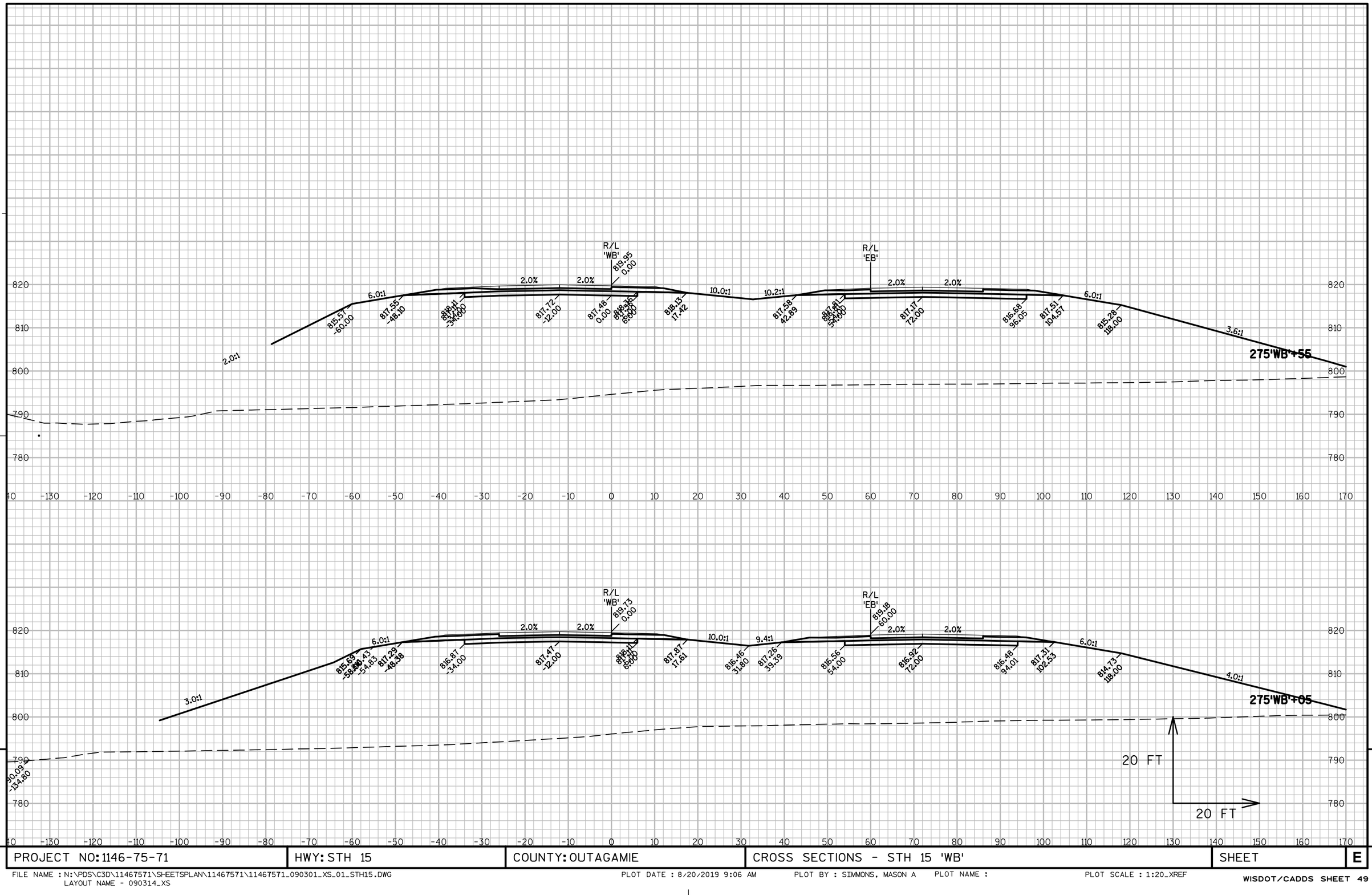
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_01_STH15.DWG
LAYOUT NAME - 090313_XS

PLOT DATE : 8/20/2019 9:06 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

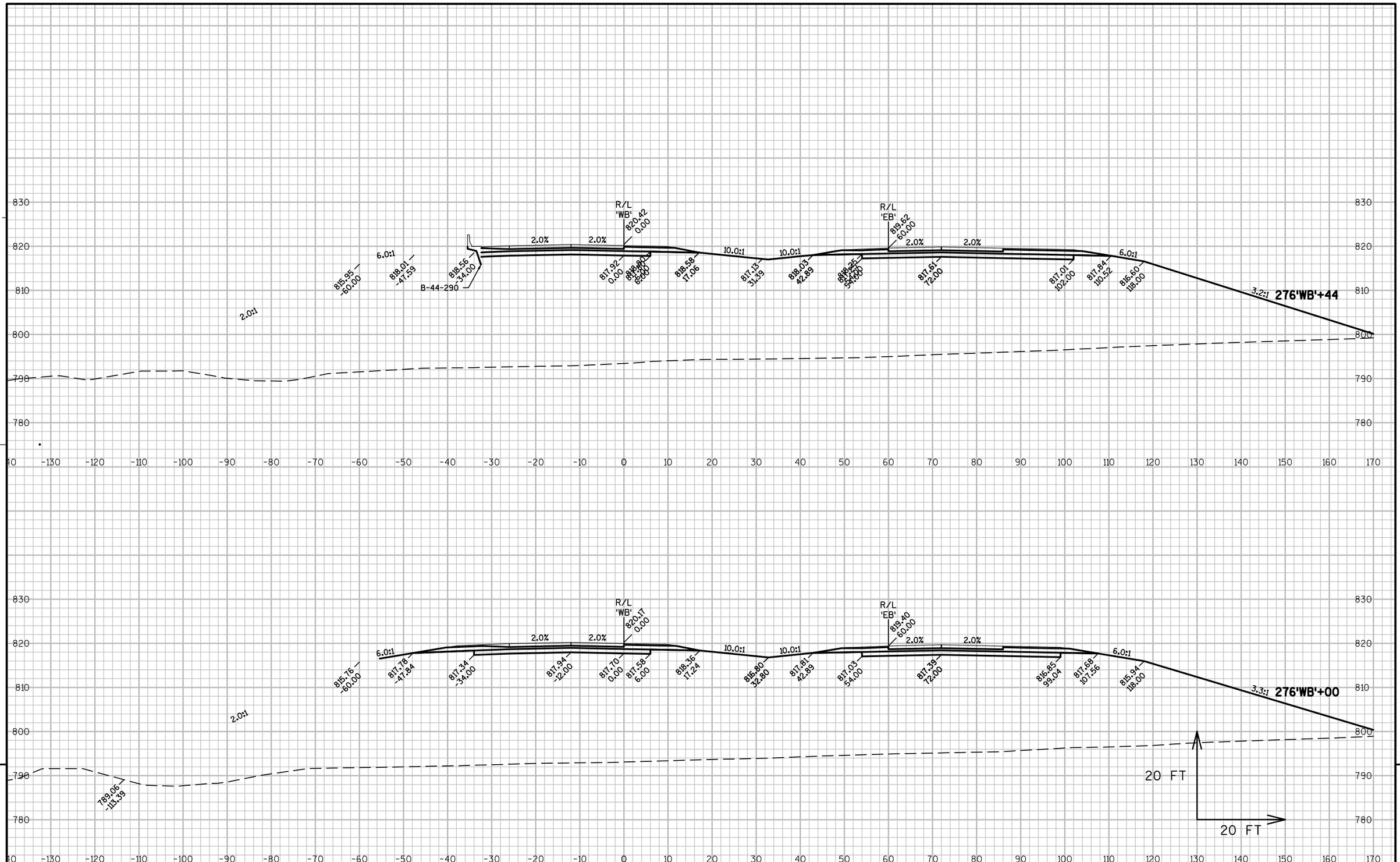
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_01_STH15.DWG
LAYOUT NAME - 090314_XS

PLOT DATE : 8/20/2019 9:06 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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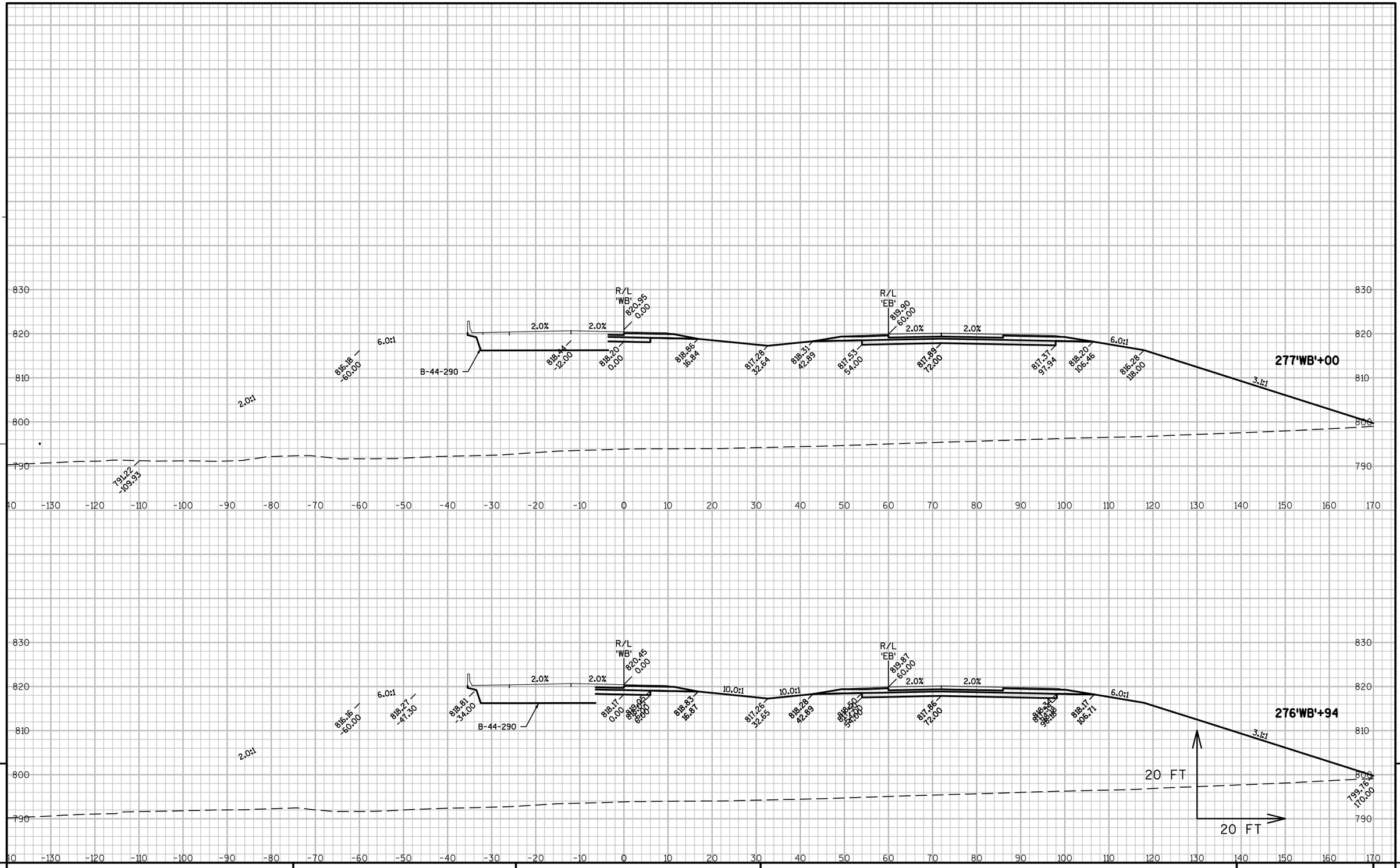
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_01_STH15.DWG
LAYOUT NAME - 090315_XS

PLOT DATE : 8/20/2019 9:06 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

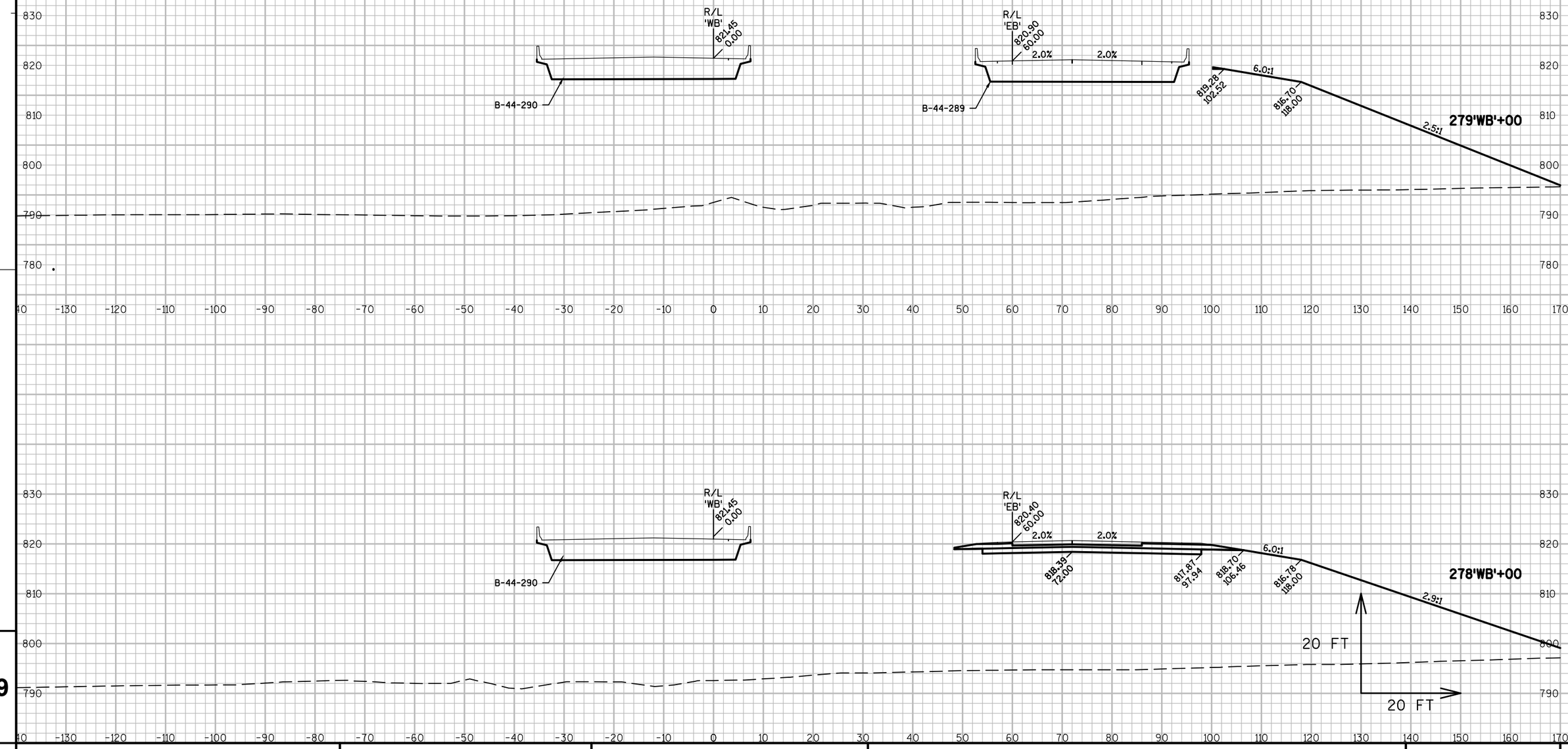
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_01_STH15.DWG
LAYOUT NAME - 090316_XS

PLOT DATE : 8/20/2019 9:06 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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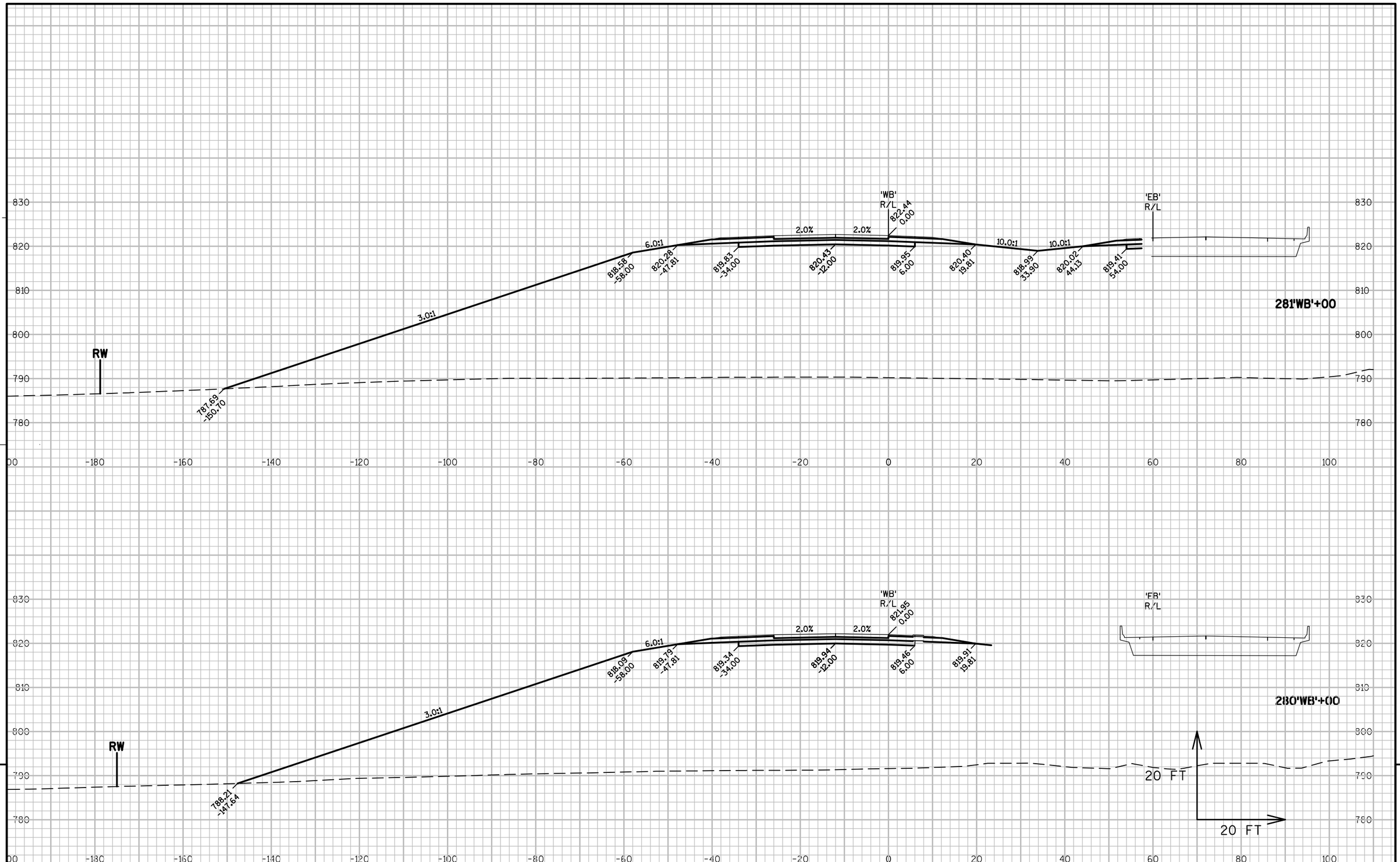
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_01_STH15.DWG
LAYOUT NAME - 090317_XS

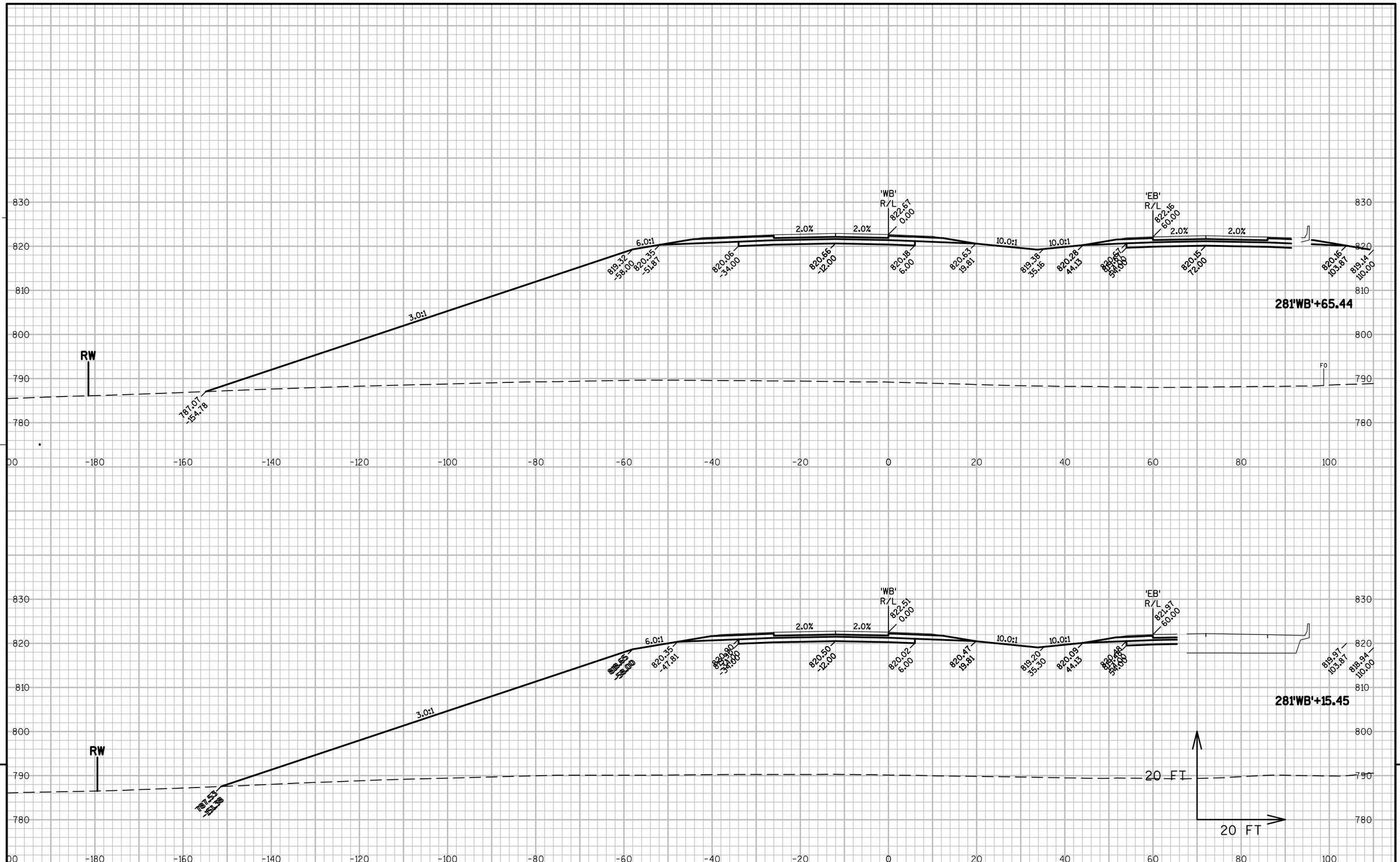
PLOT DATE : 8/20/2019 9:07 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090318_XS

PLOT DATE : 6/12/2019 11:59 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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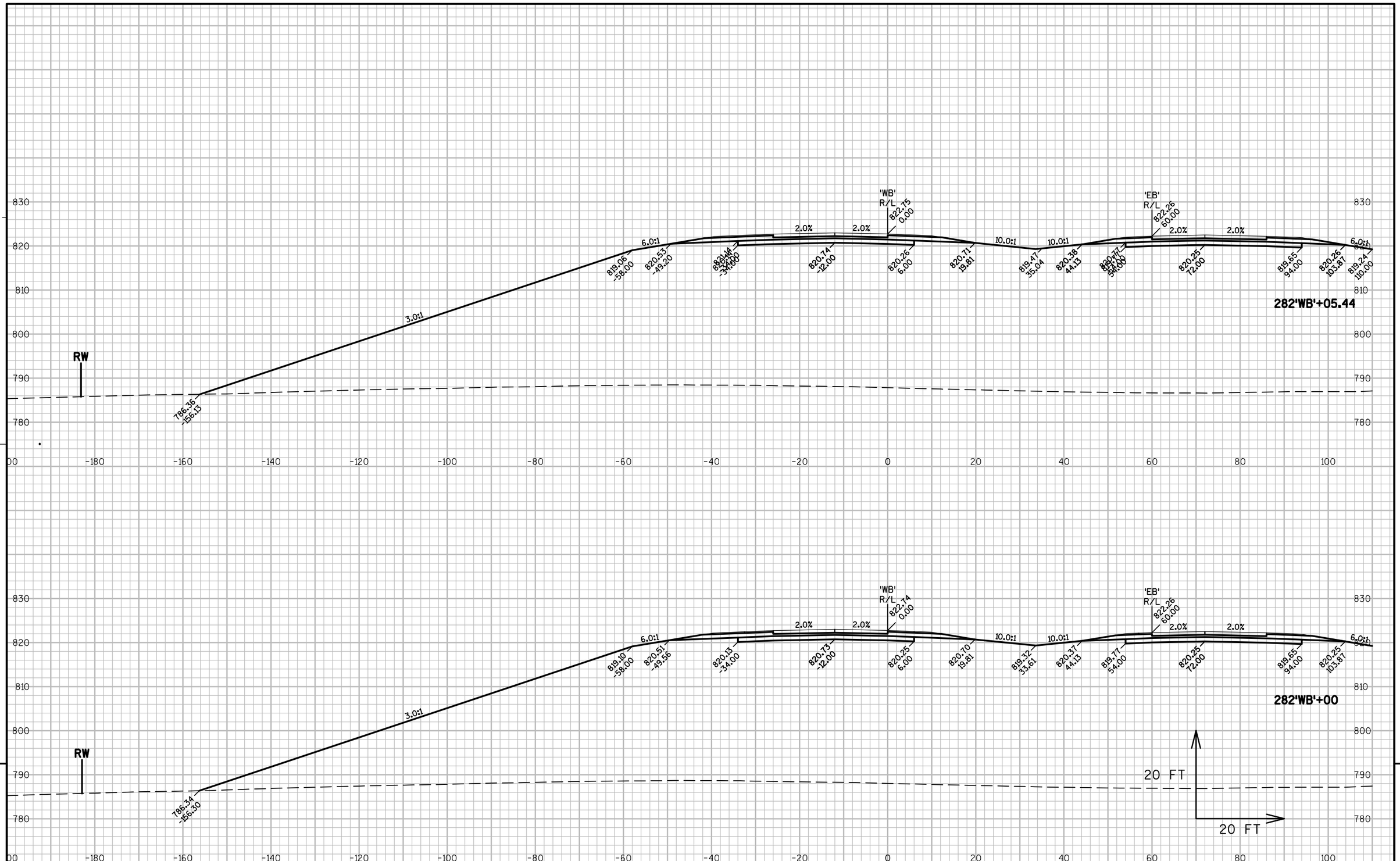
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090319_XS

PLOT DATE : 6/12/2019 11:59 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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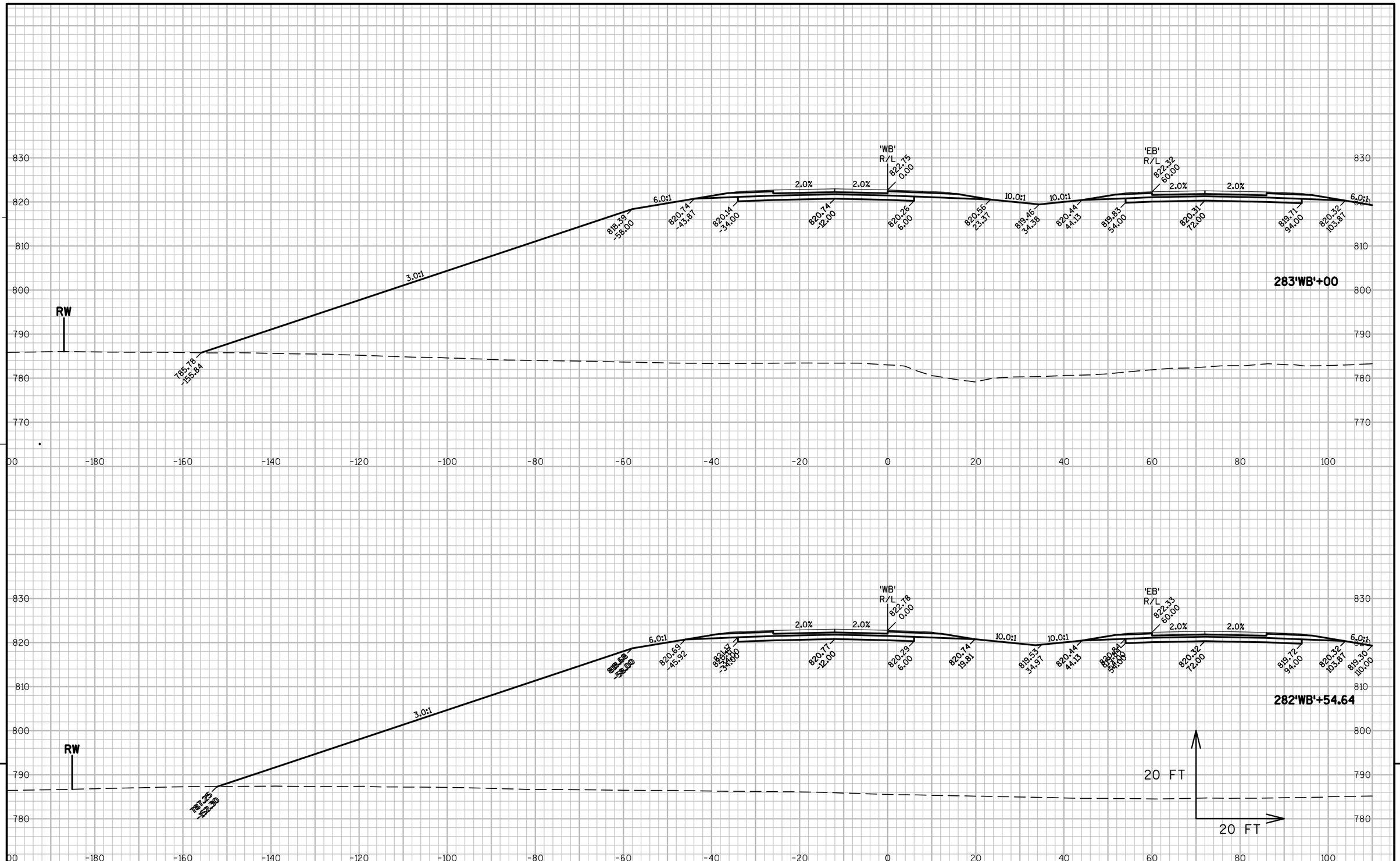
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090320_XS

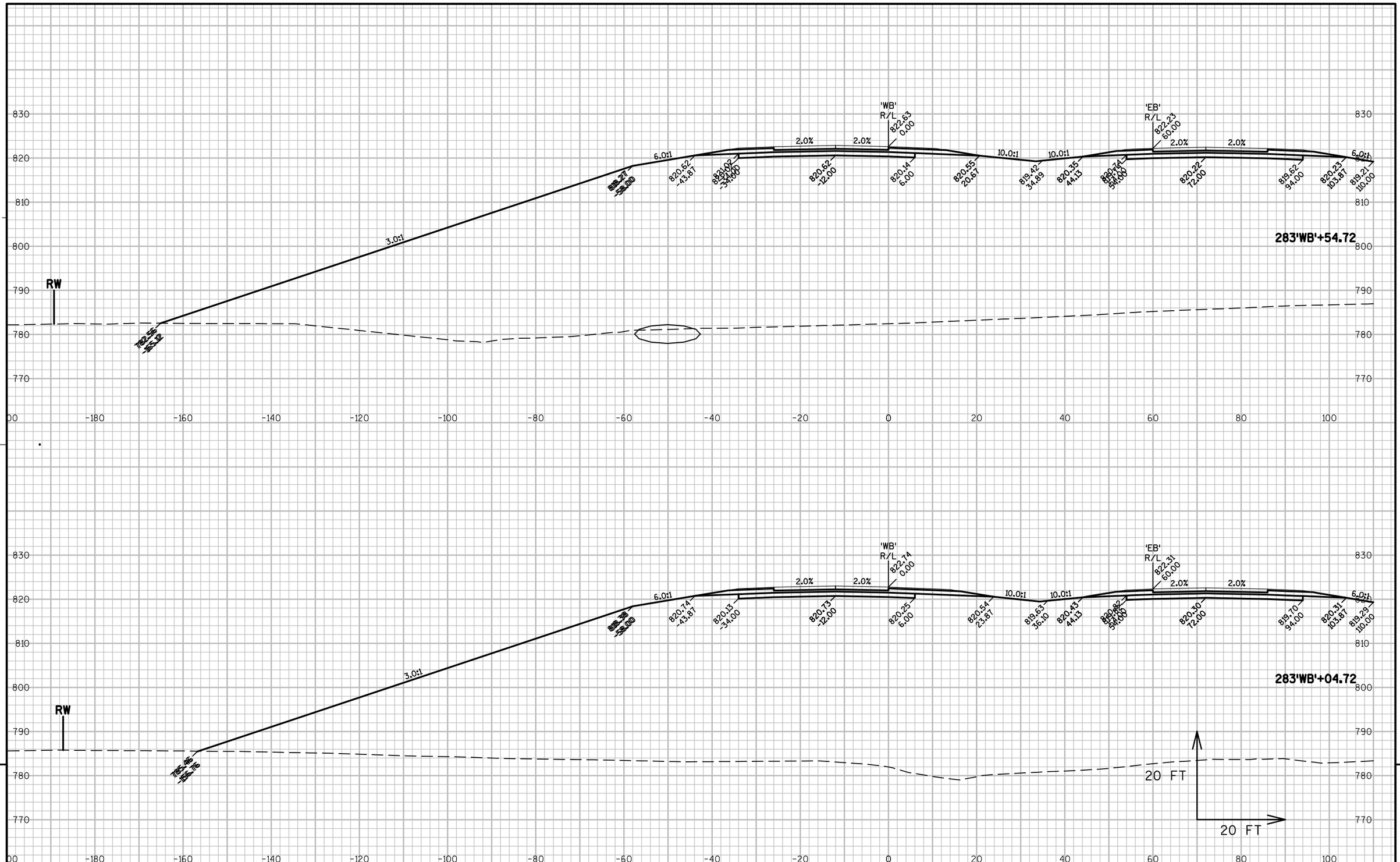
PLOT DATE : 6/12/2019 11:59 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

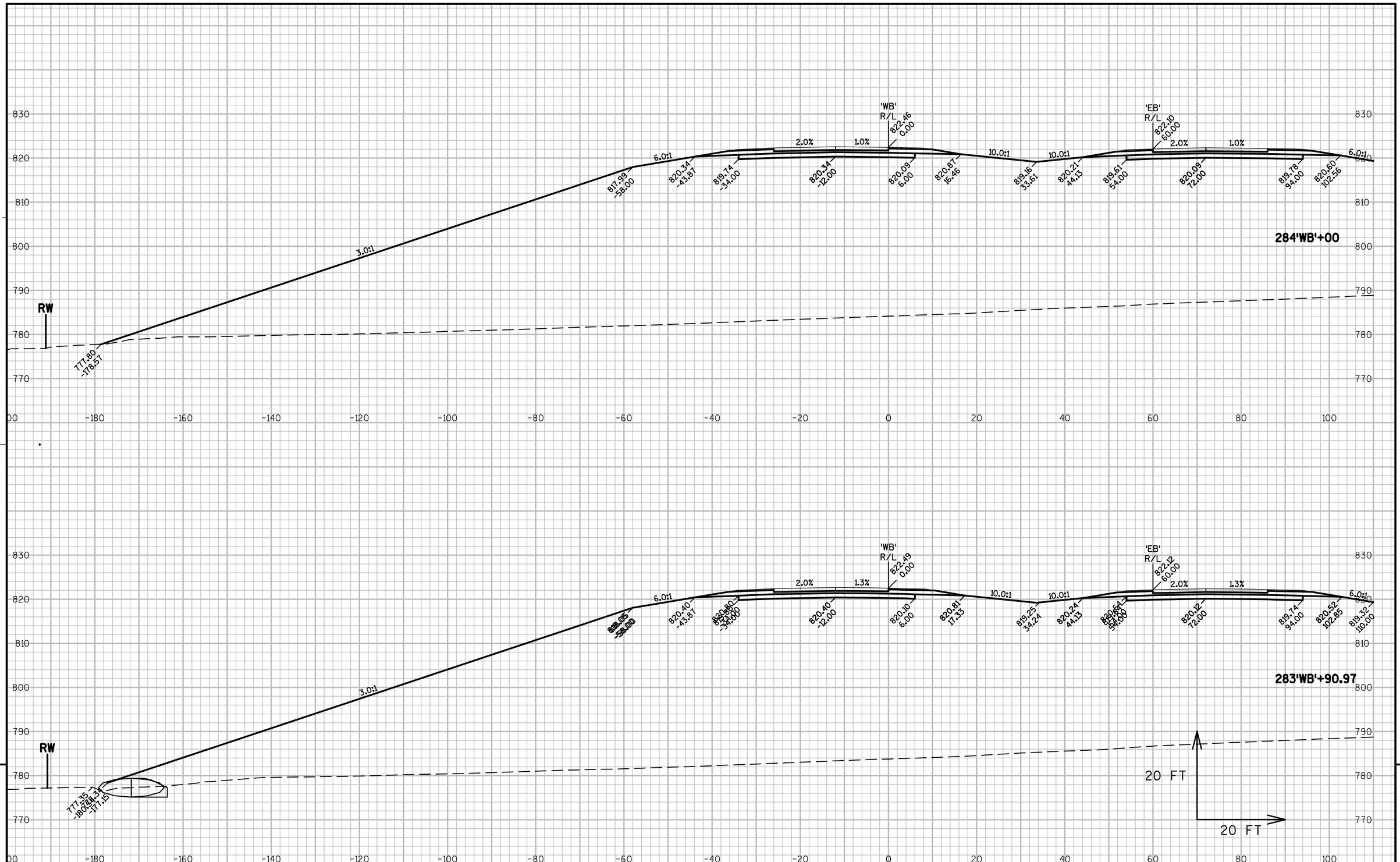
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090321_XS
PLOT DATE : 6/12/2019 11:59 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090322_XS

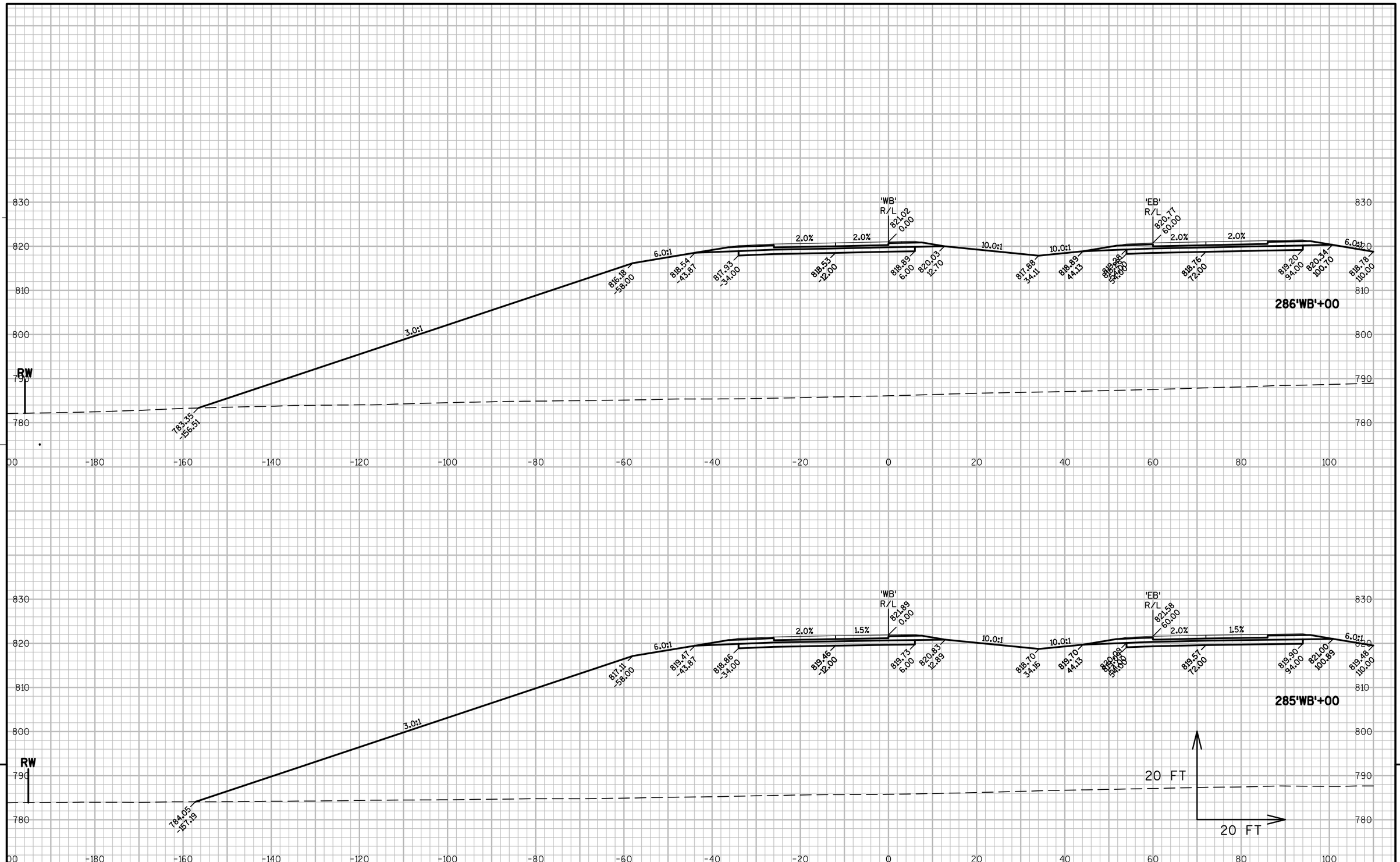
PLOT DATE : 6/12/2019 11:59 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090323_XS

PLOT DATE : 6/12/2019 12:00 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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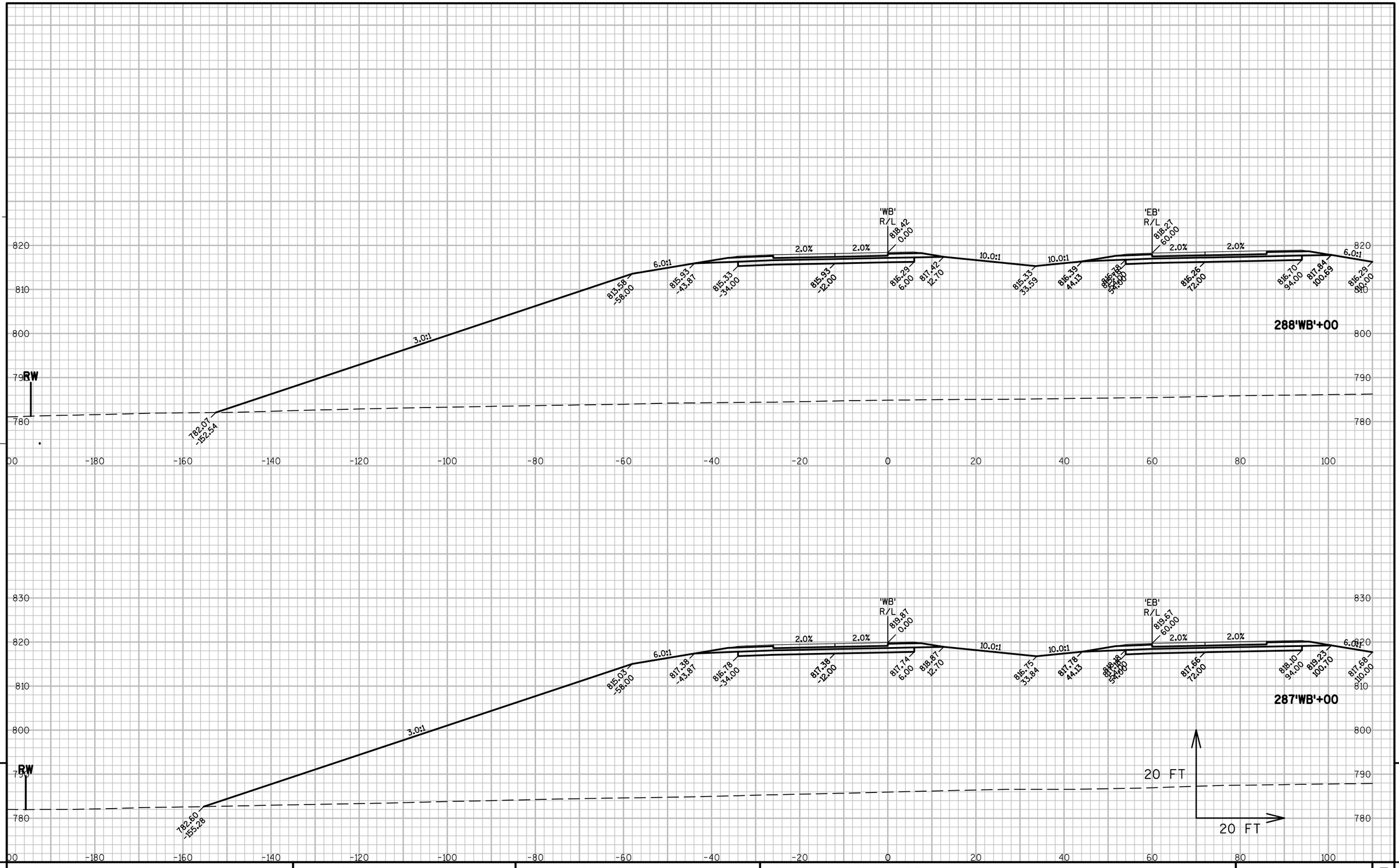
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090324_XS

PLOT DATE : 6/12/2019 12:00 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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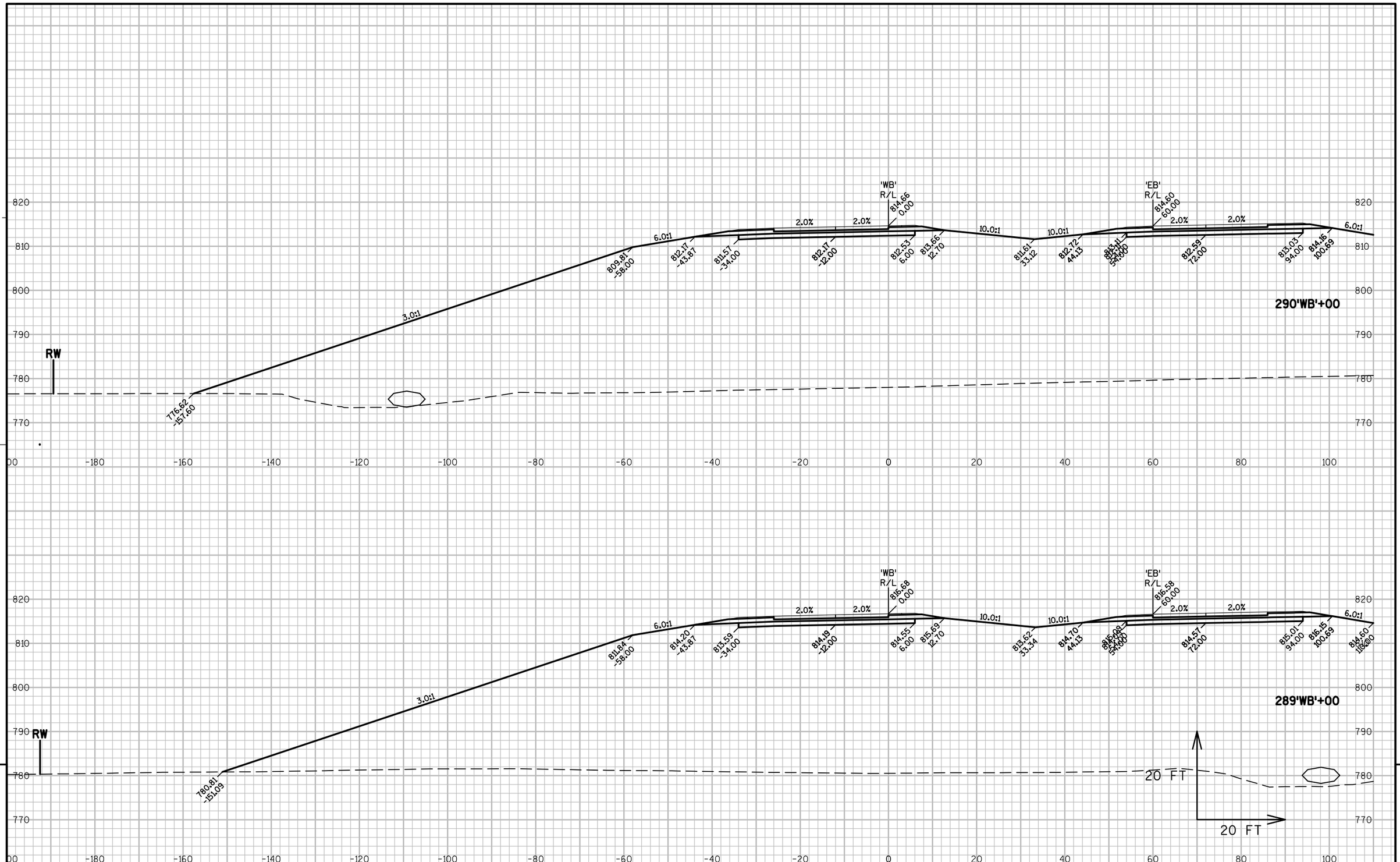
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090325_XS

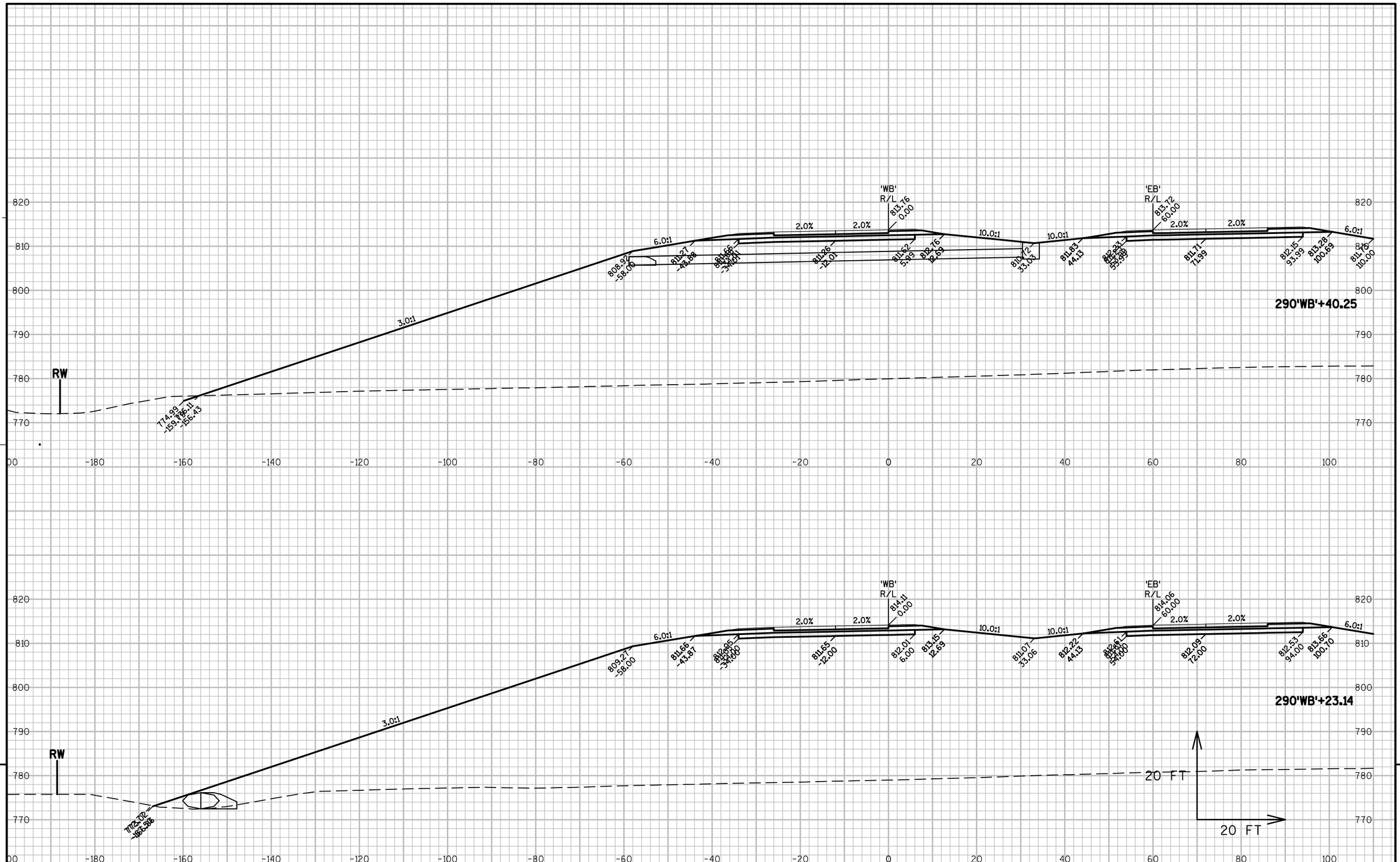
PLOT DATE : 6/12/2019 12:00 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090326_XS

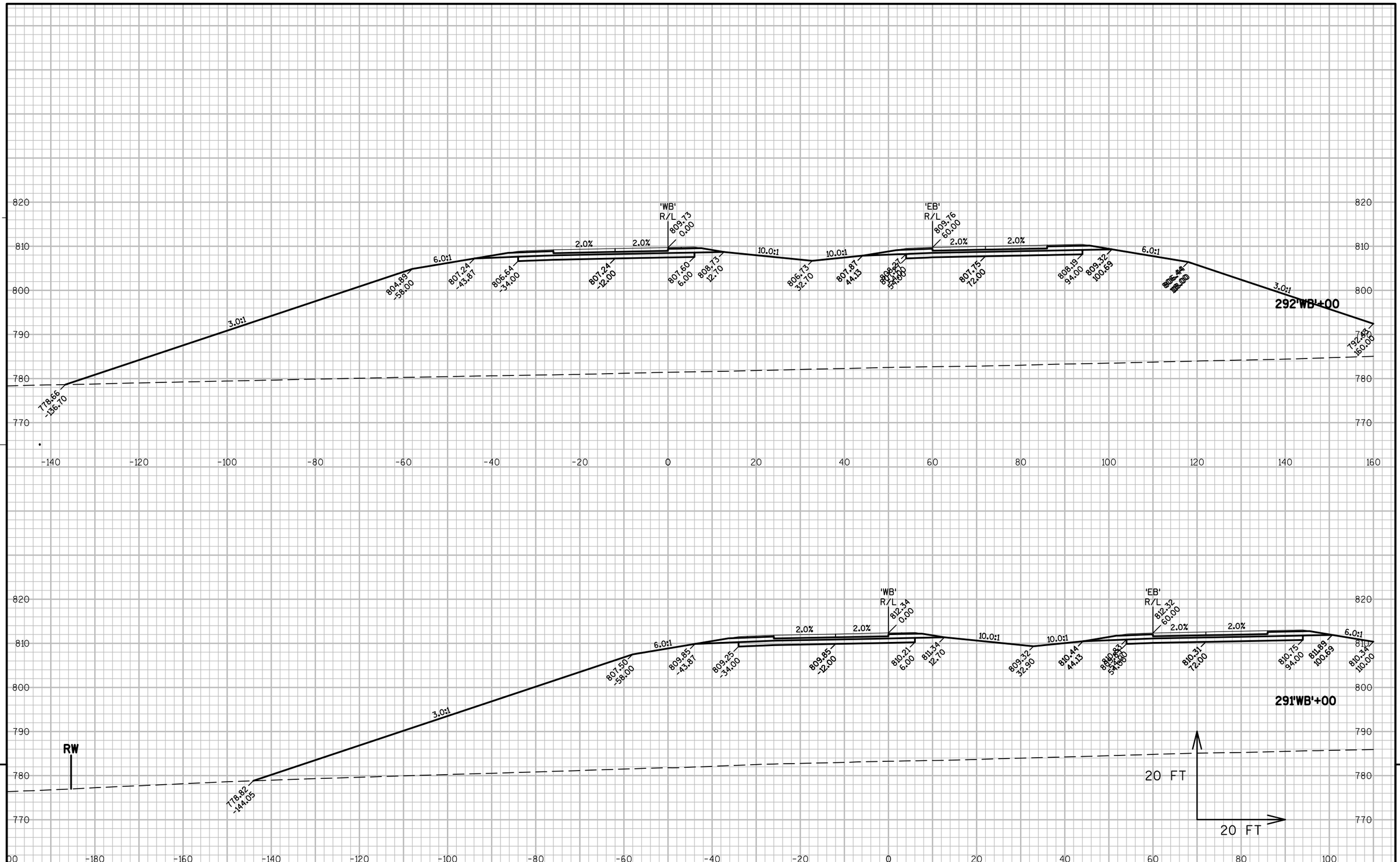
PLOT DATE : 6/12/2019 12:00 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090327_XS

PLOT DATE : 6/12/2019 12:00 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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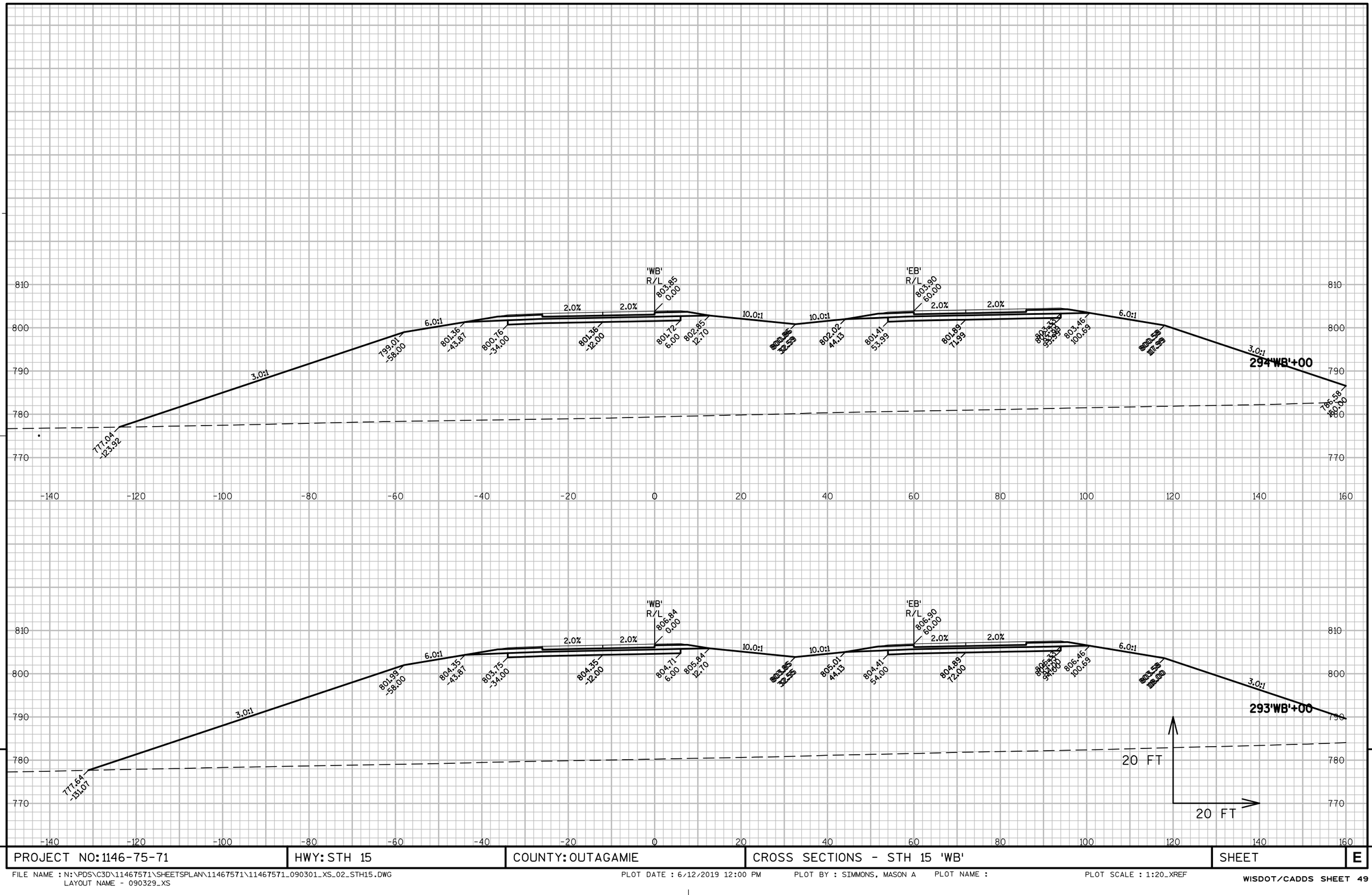
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090328_XS

PLOT DATE : 6/12/2019 12:00 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

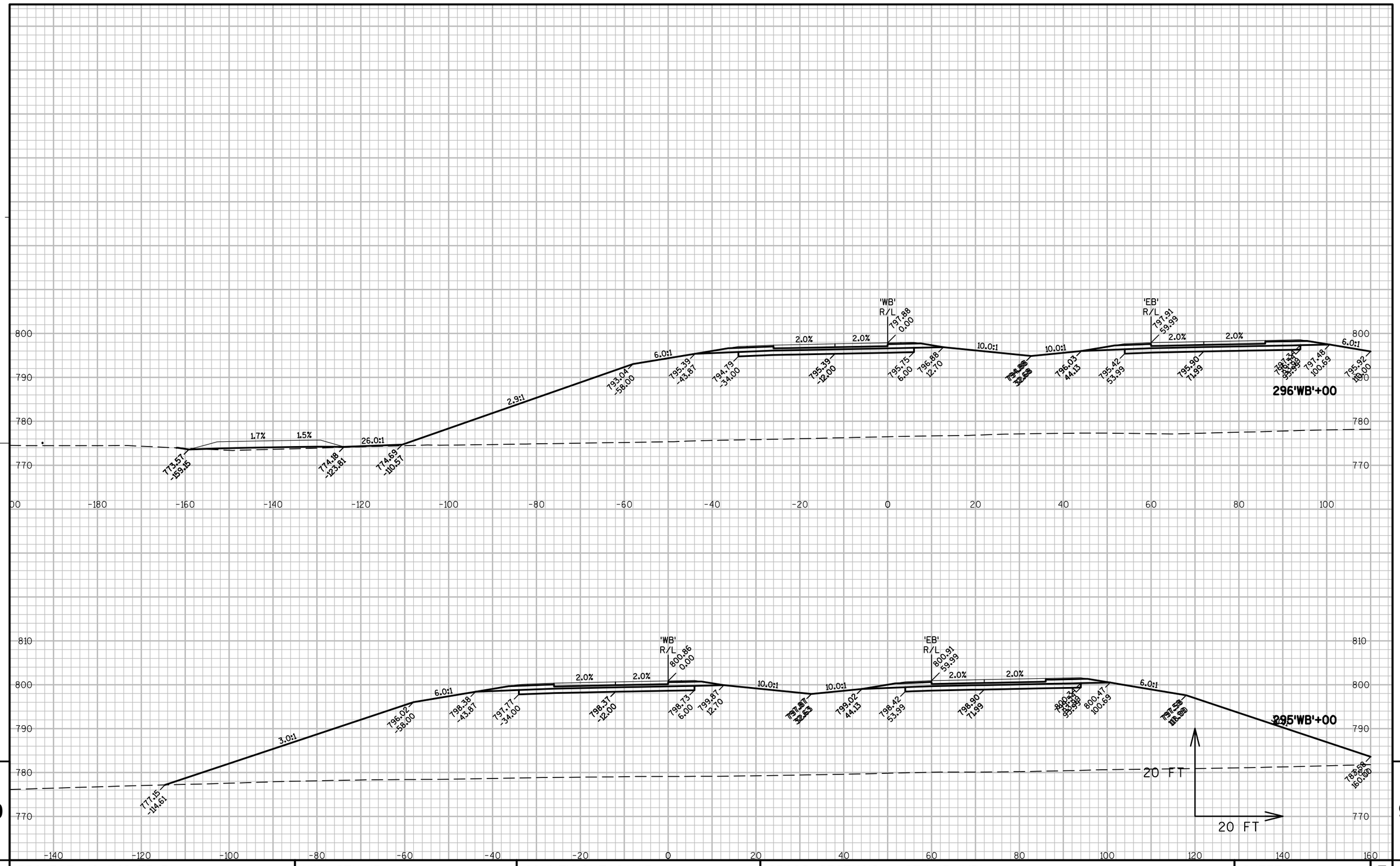
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090329_XS

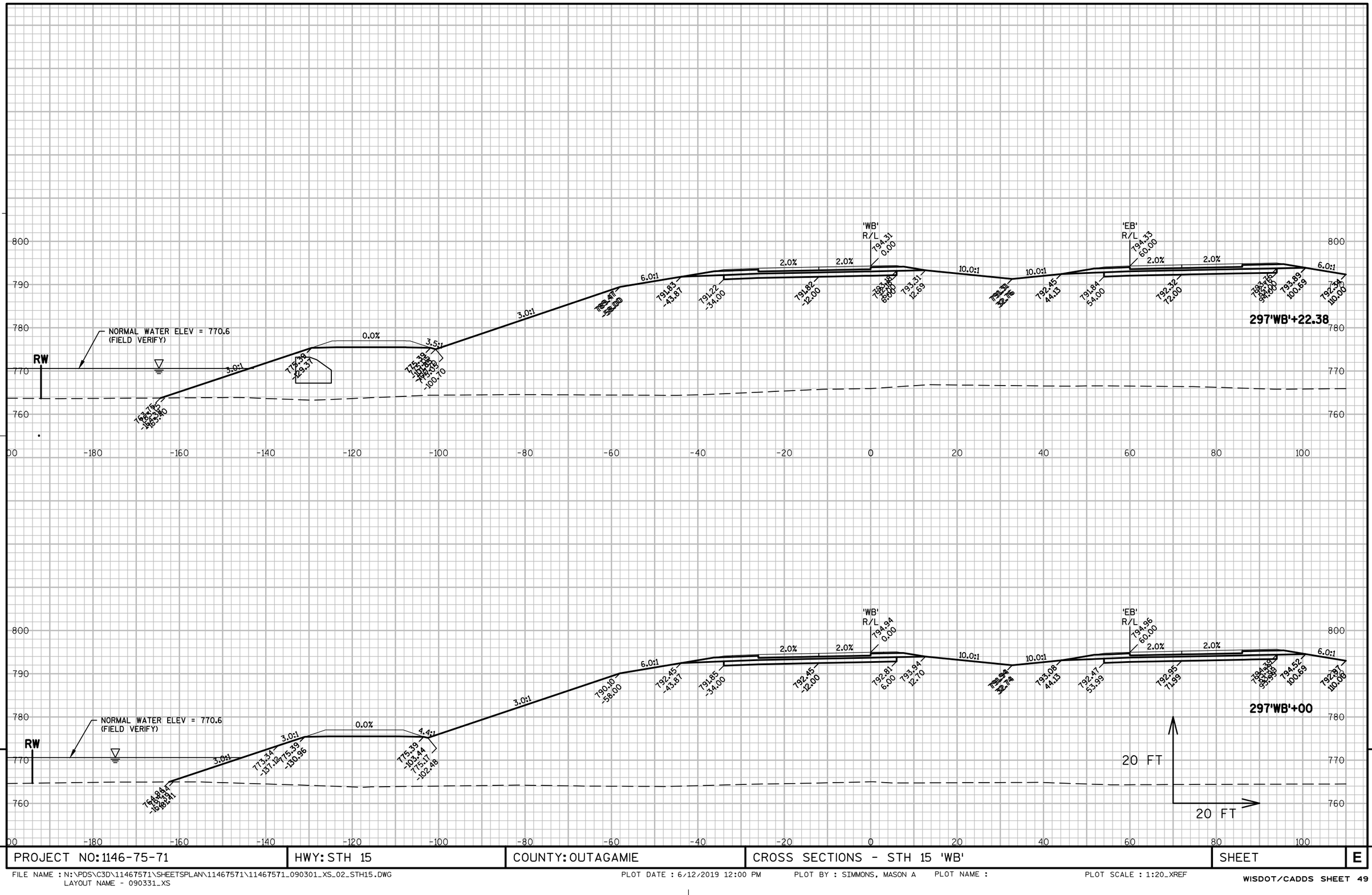
PLOT DATE : 6/12/2019 12:00 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET E

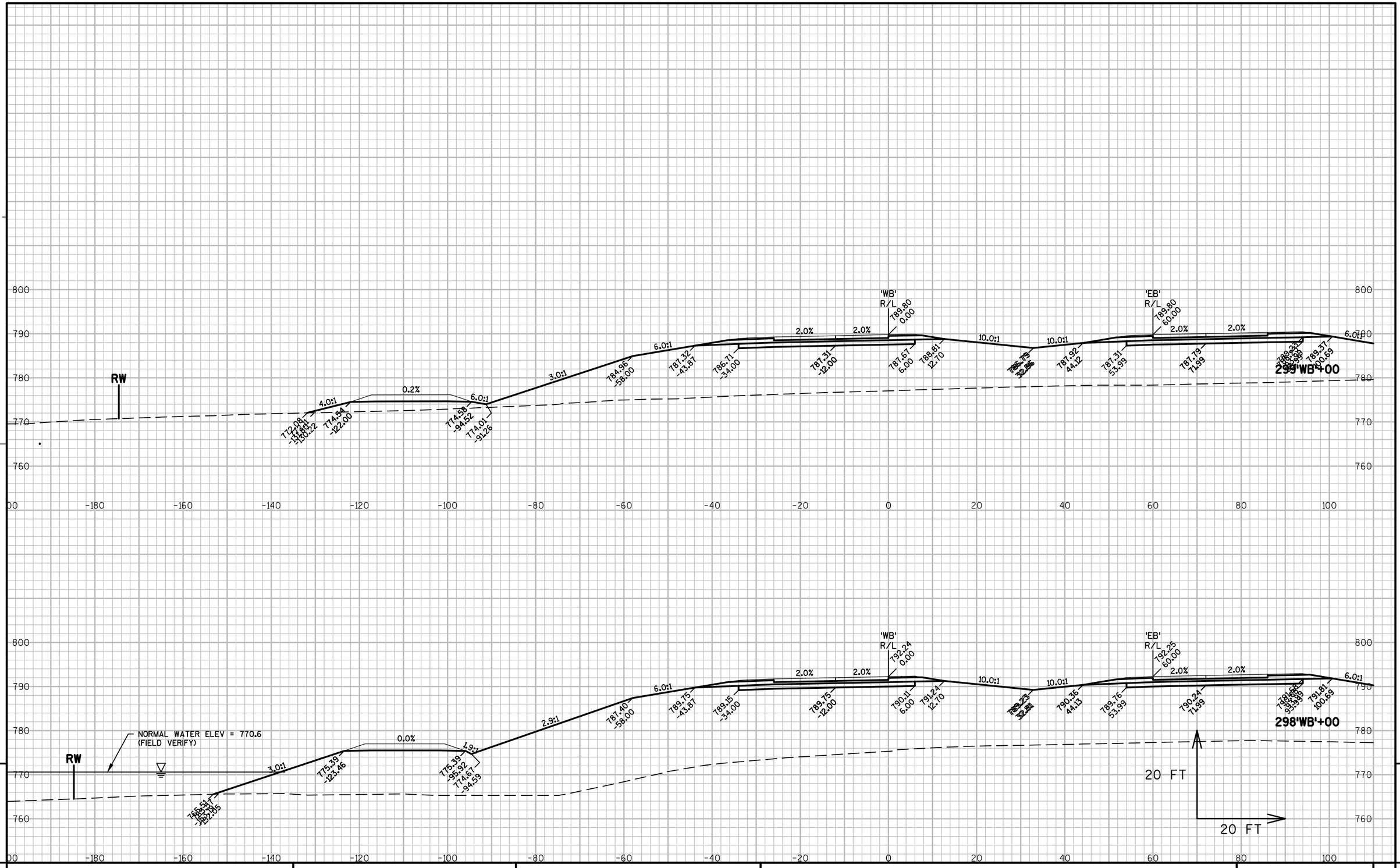
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090330_XS

PLOT DATE : 6/12/2019 12:00 PM 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	E

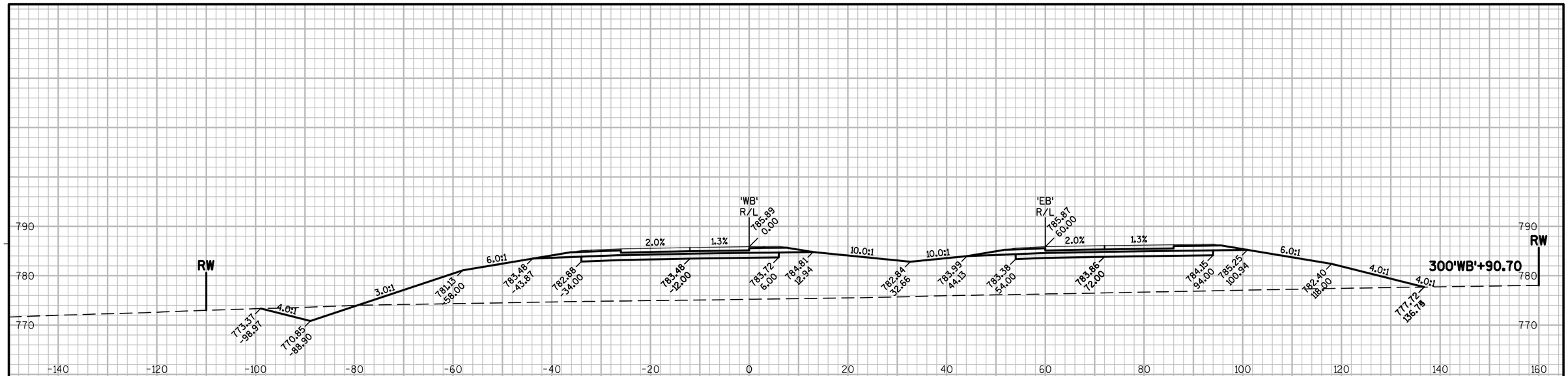
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090331_XS
PLOT DATE : 6/12/2019 12:00 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

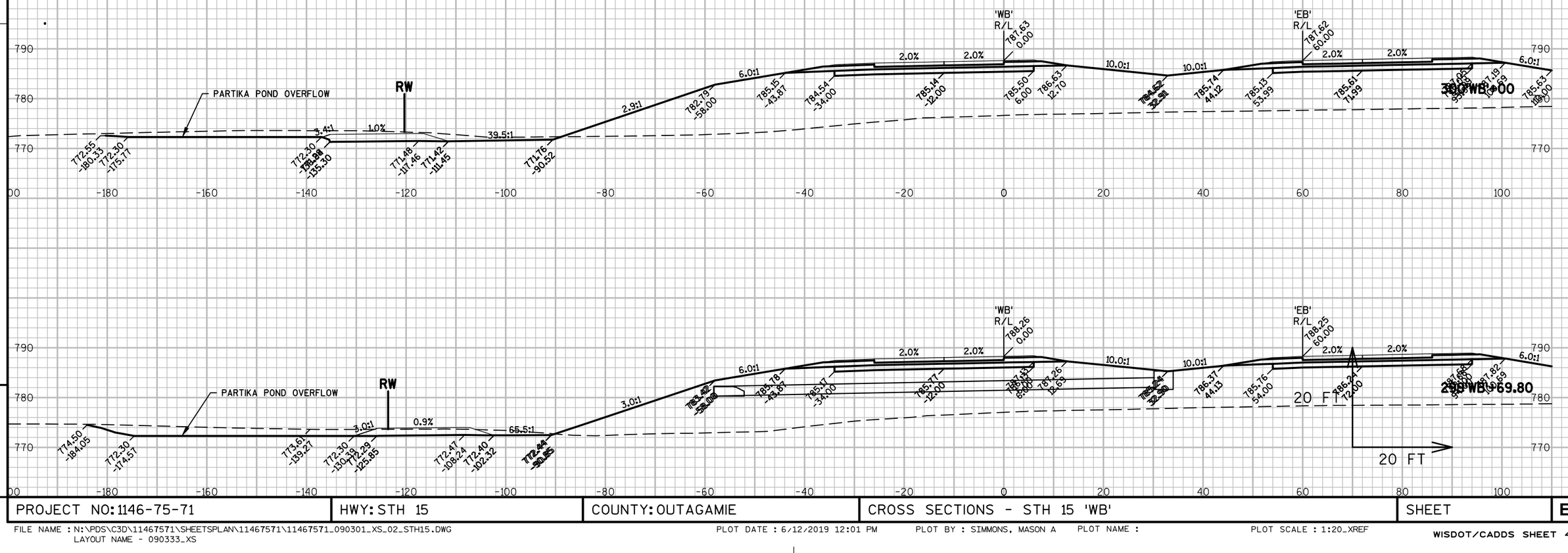


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090332_XS

PLOT DATE : 6/12/2019 12:00 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

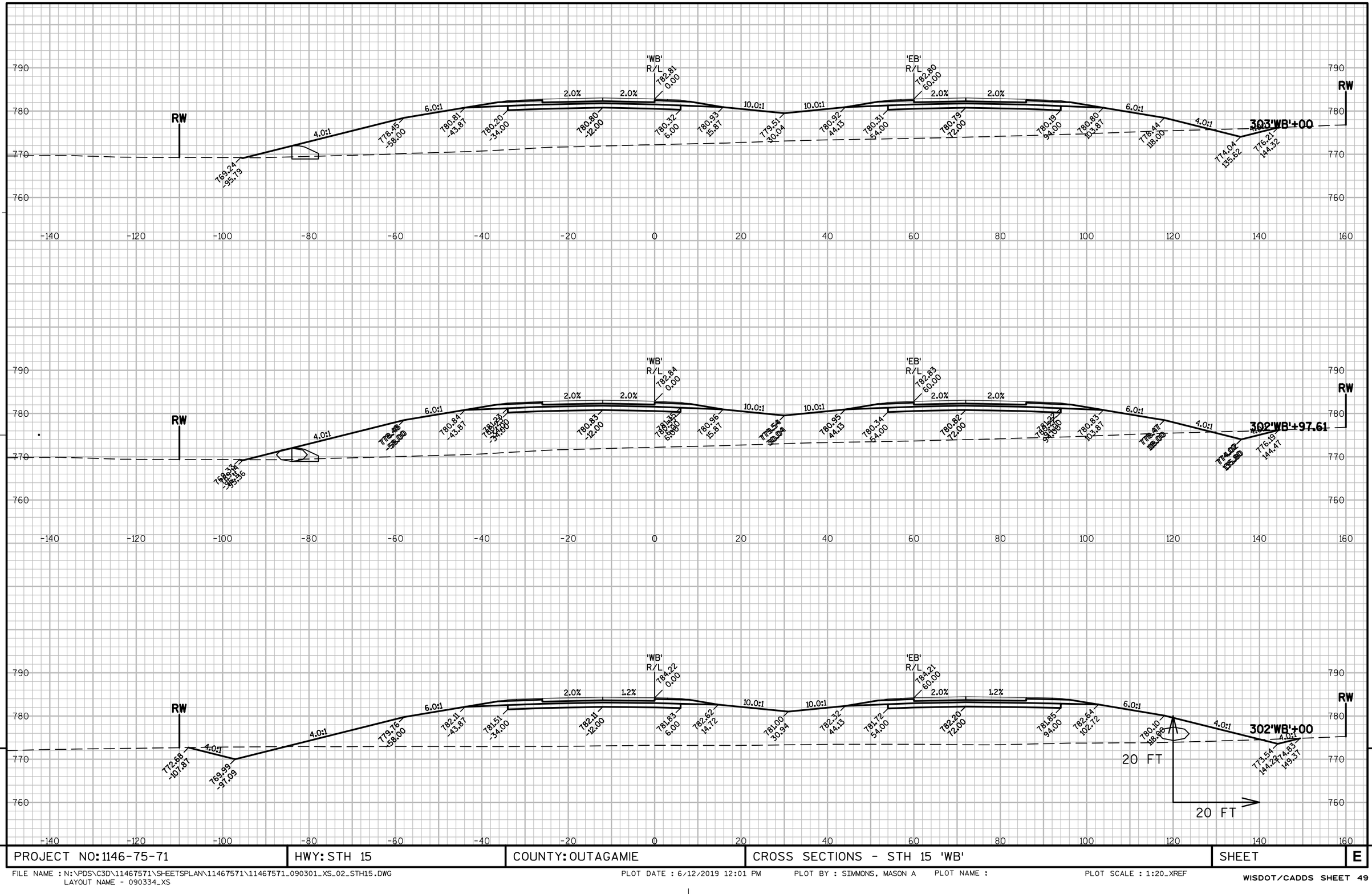




PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090333_XS

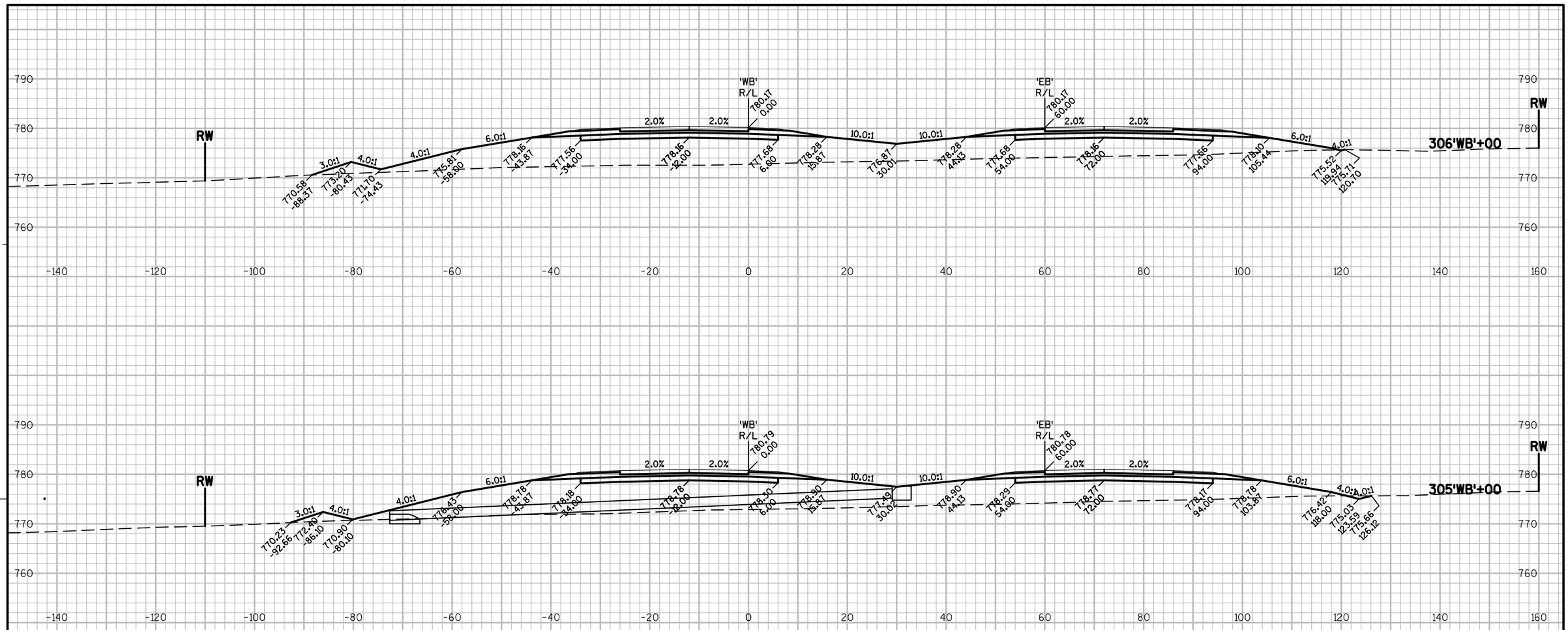
PLOT DATE : 6/12/2019 12:01 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

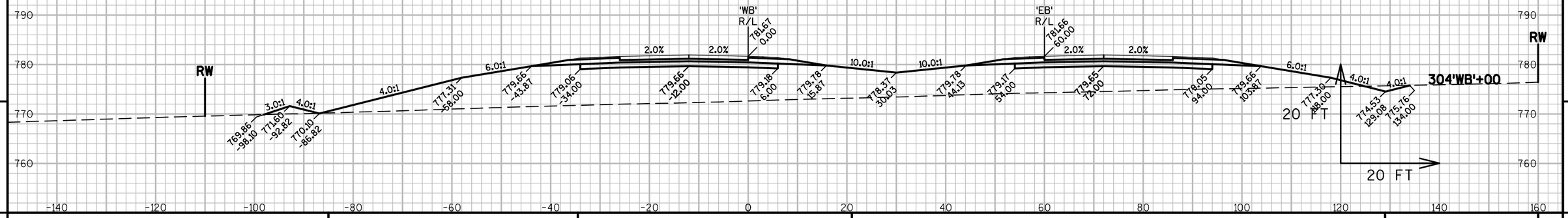


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090334_XS

PLOT DATE : 6/12/2019 12:01 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF





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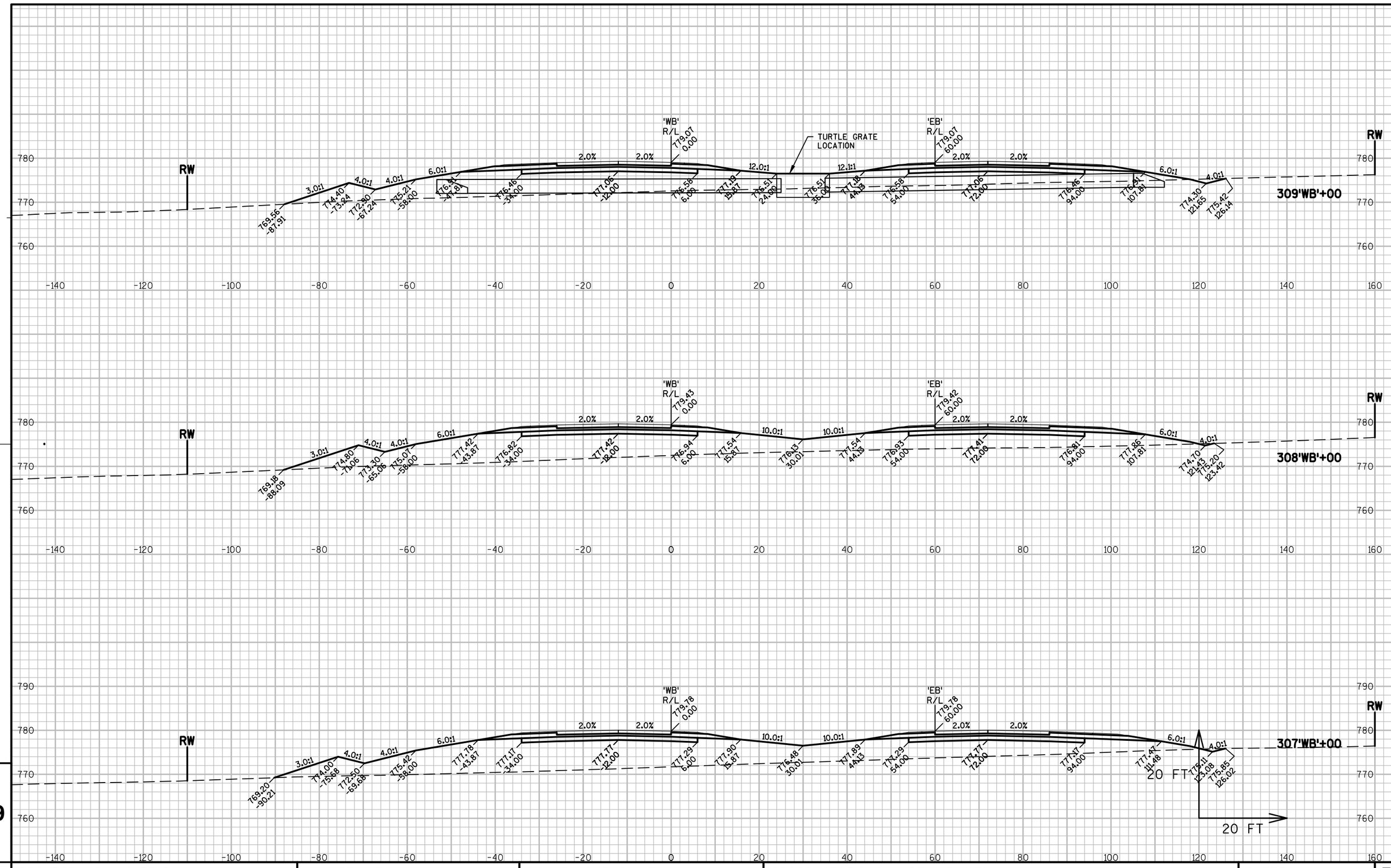
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090335_XS

PLOT DATE : 6/12/2019 12:01 PM 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	E

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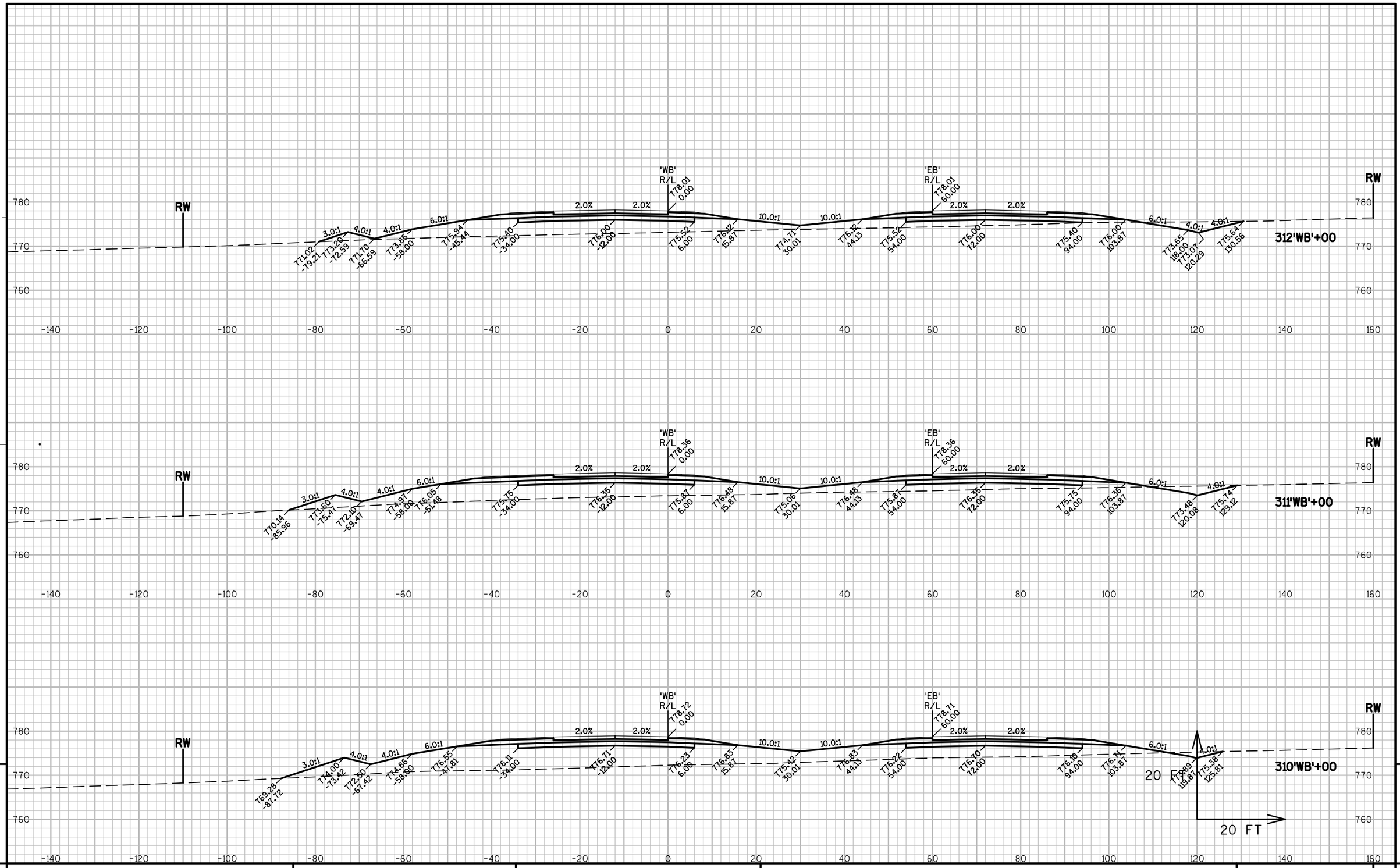
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090336_XS

PLOT DATE : 6/12/2019 12:01 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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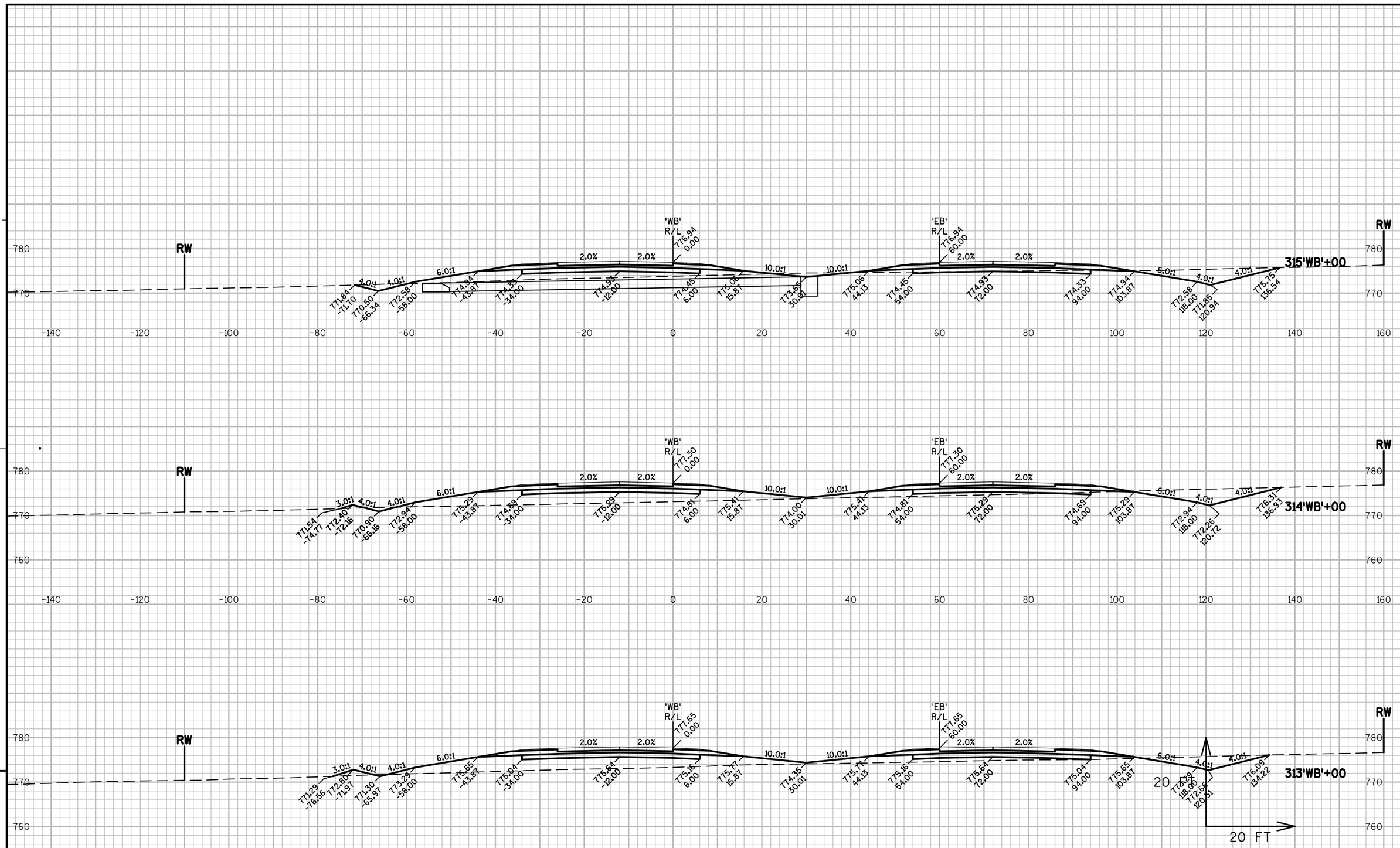
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090337_XS

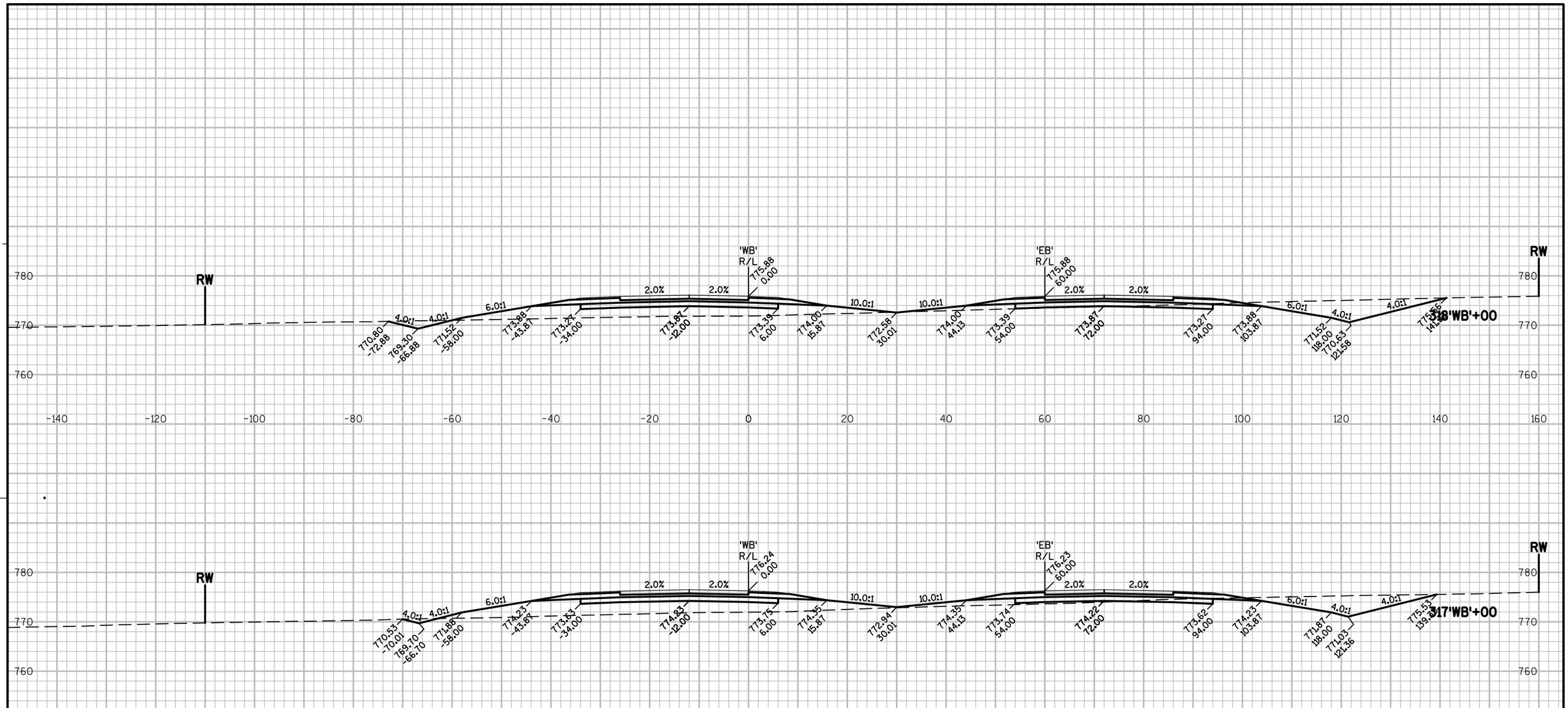
PLOT DATE : 6/12/2019 12:01 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

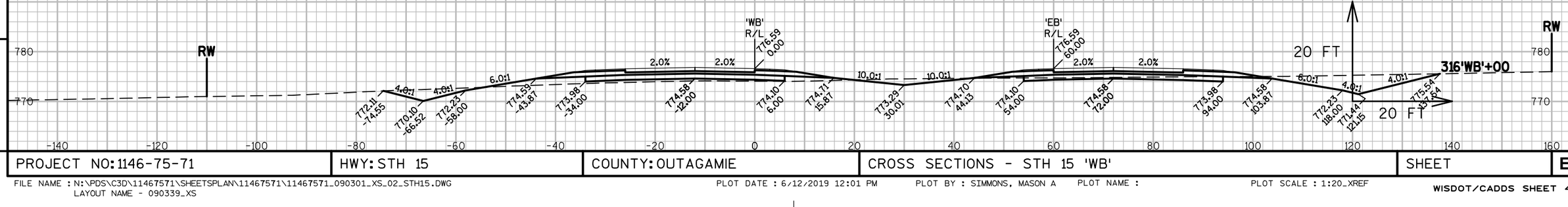


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090338_XS

PLOT DATE : 6/12/2019 12:01 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF





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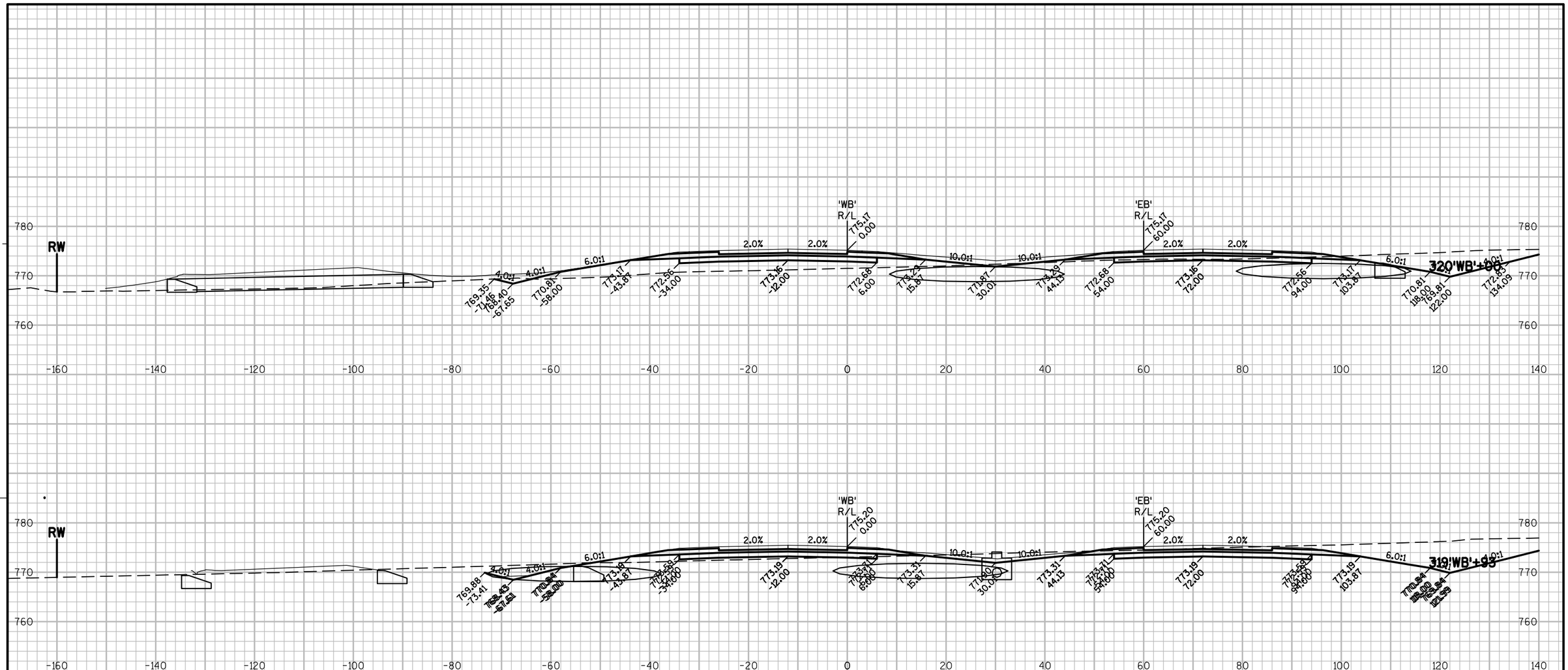
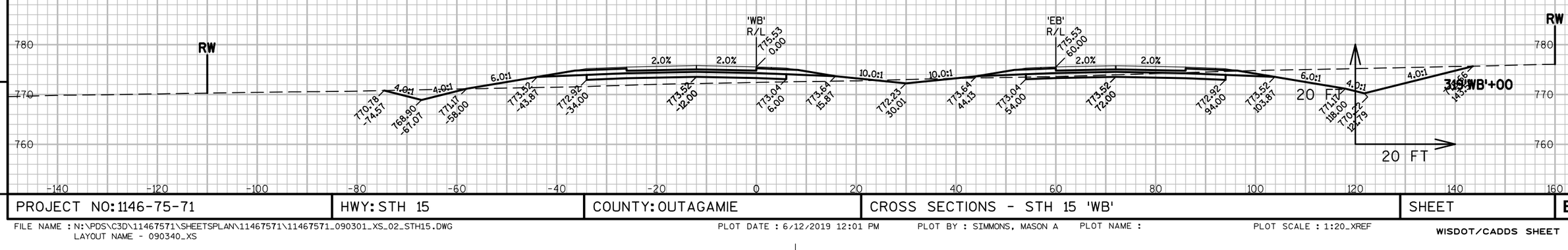
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090339_XS
PLOT DATE : 6/12/2019 12:01 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF





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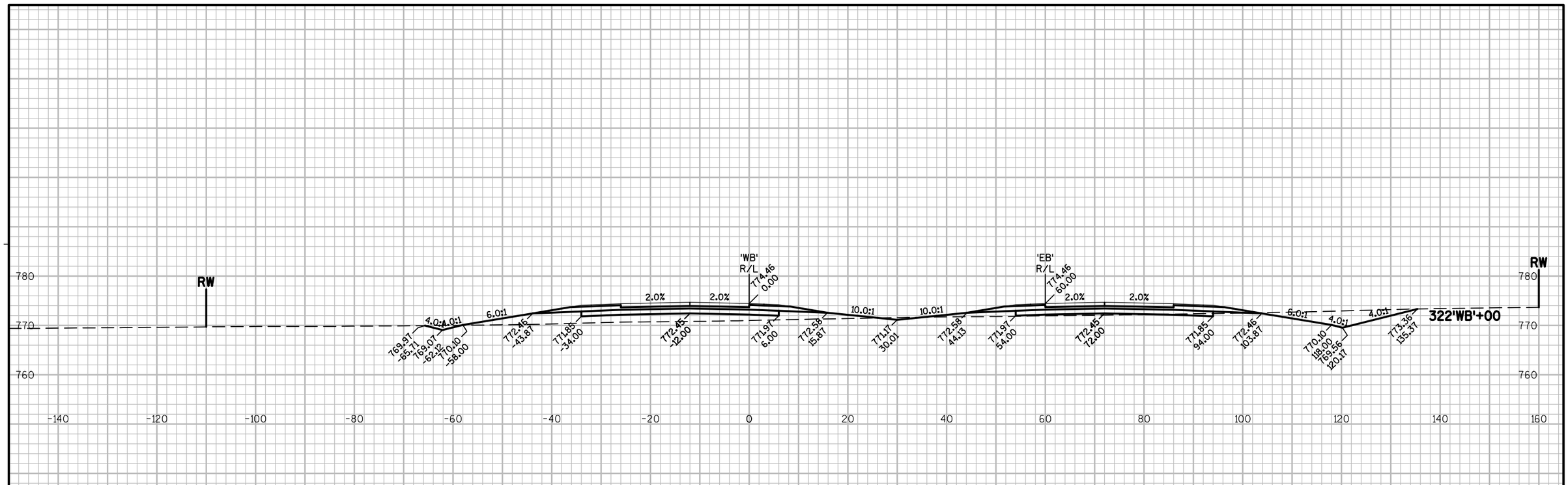
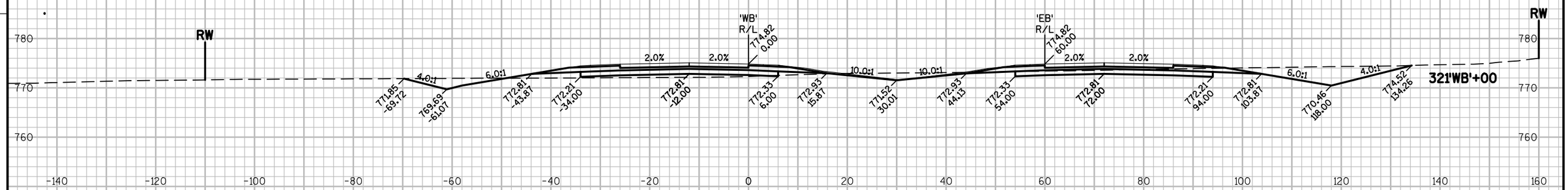
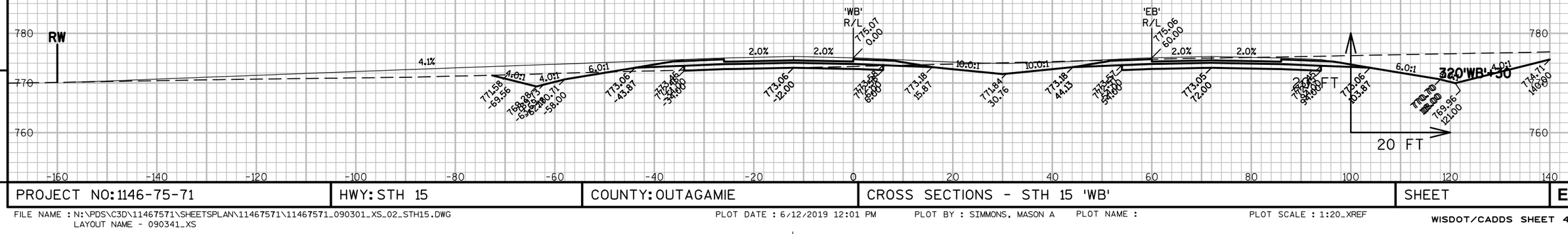
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090340_XS

PLOT DATE : 6/12/2019 12:01 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF







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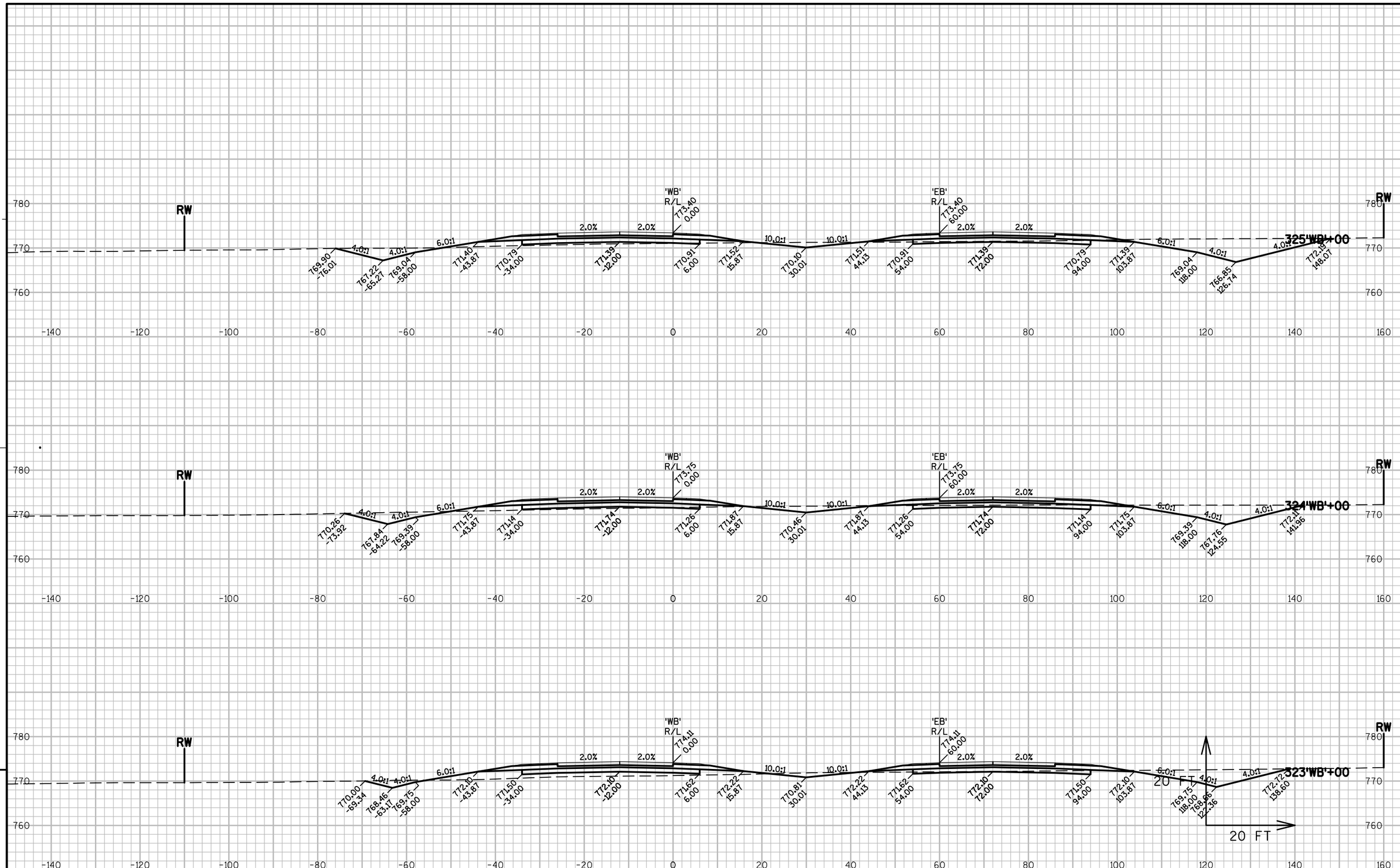
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090341_XS

PLOT DATE : 6/12/2019 12:01 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



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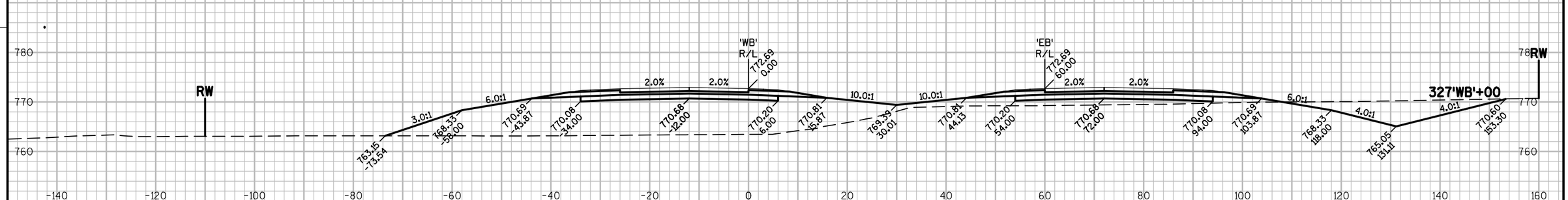
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090342_XS

PLOT DATE : 6/12/2019 12:01 PM 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090343_XS

PLOT DATE : 6/12/2019 12:01 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

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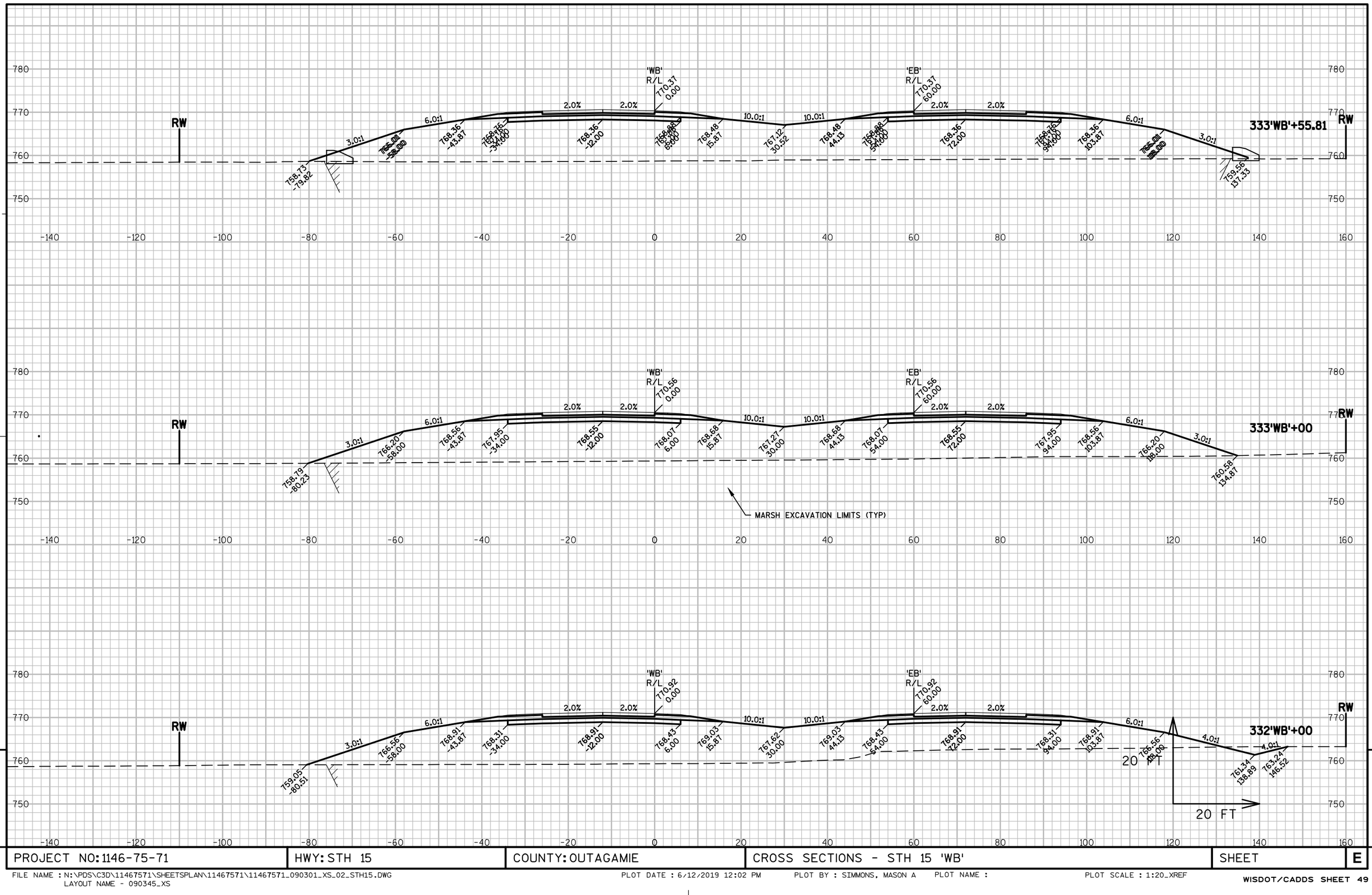
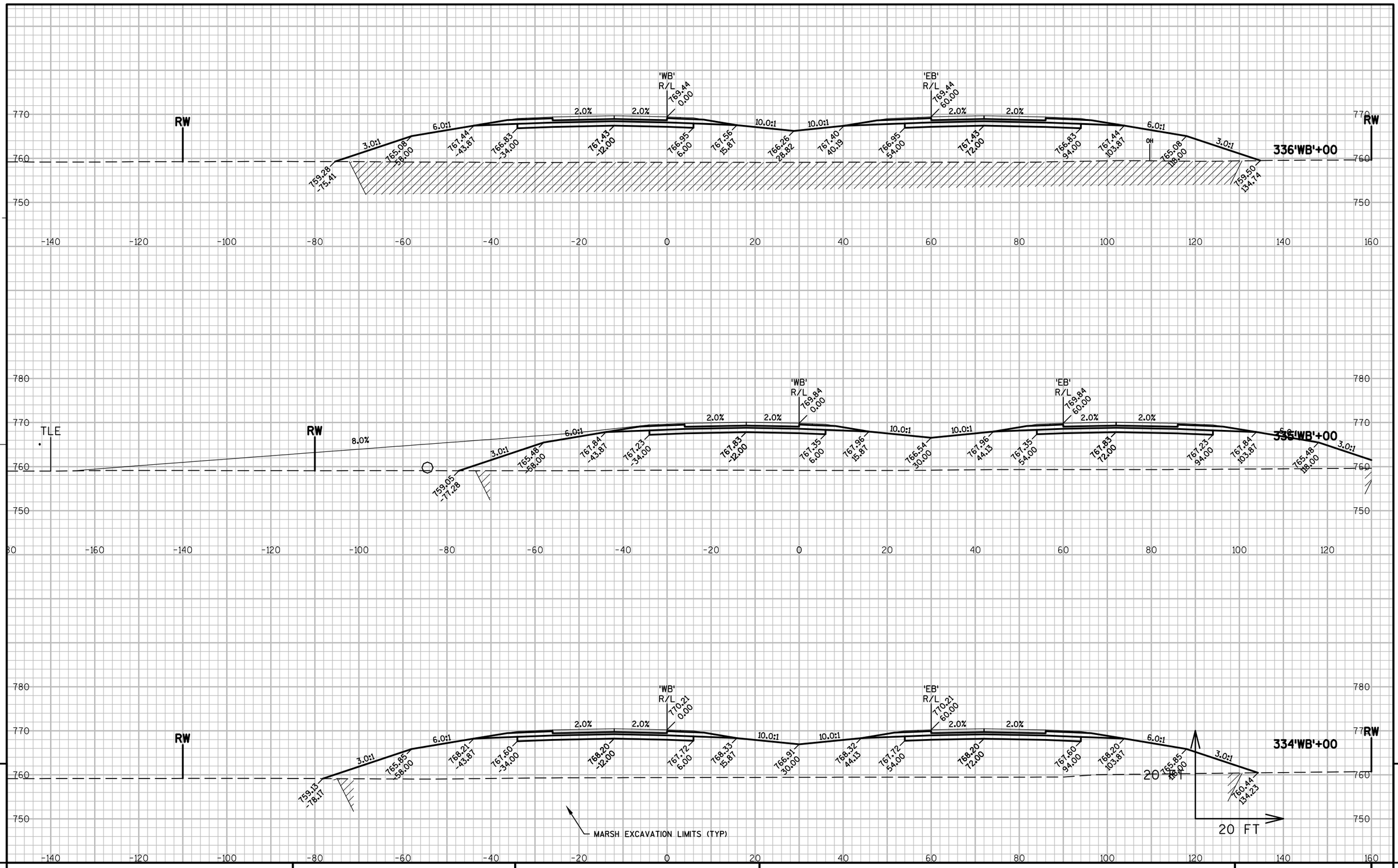
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090344_XS

PLOT DATE : 6/12/2019 12:02 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



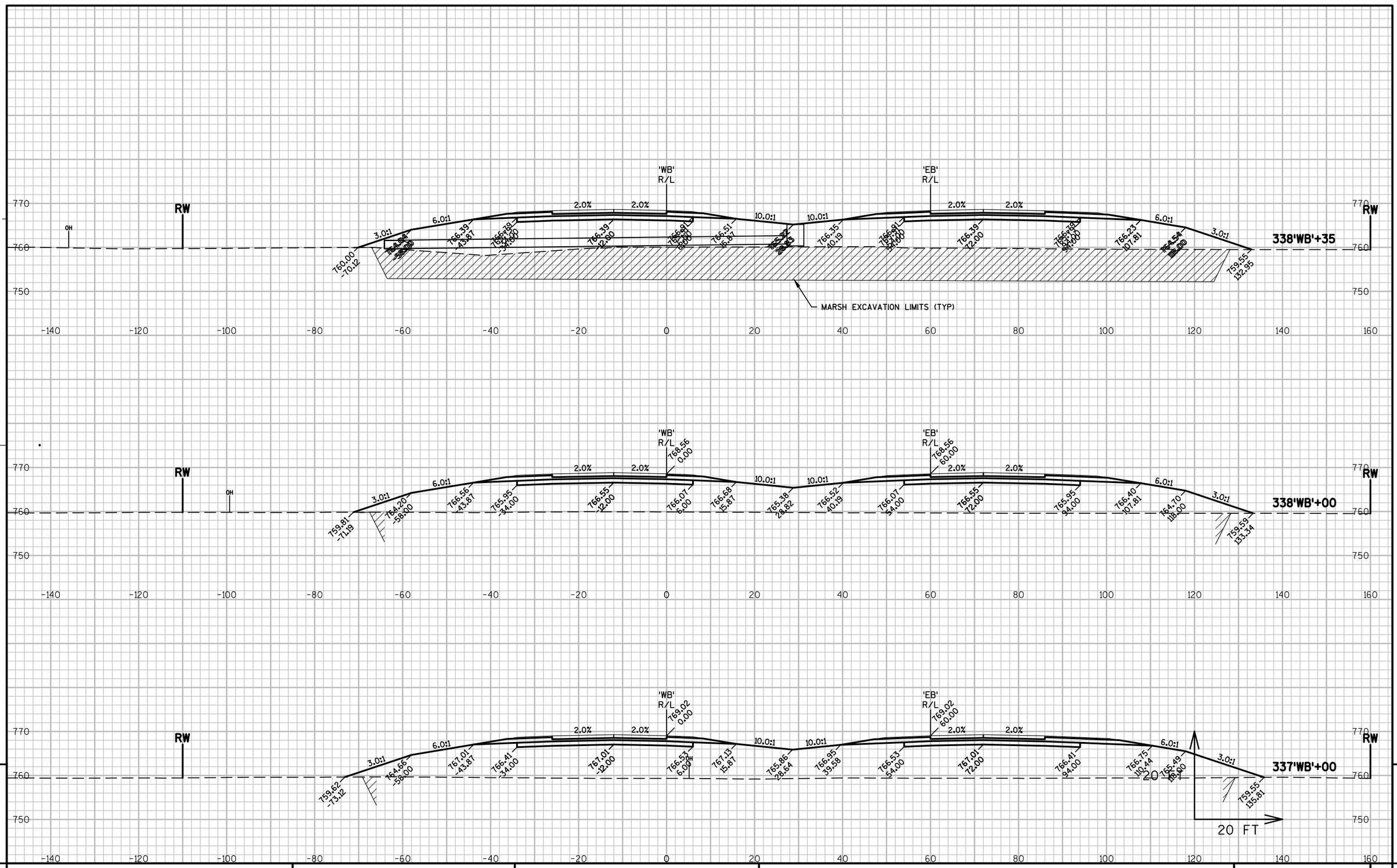
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090346_XS

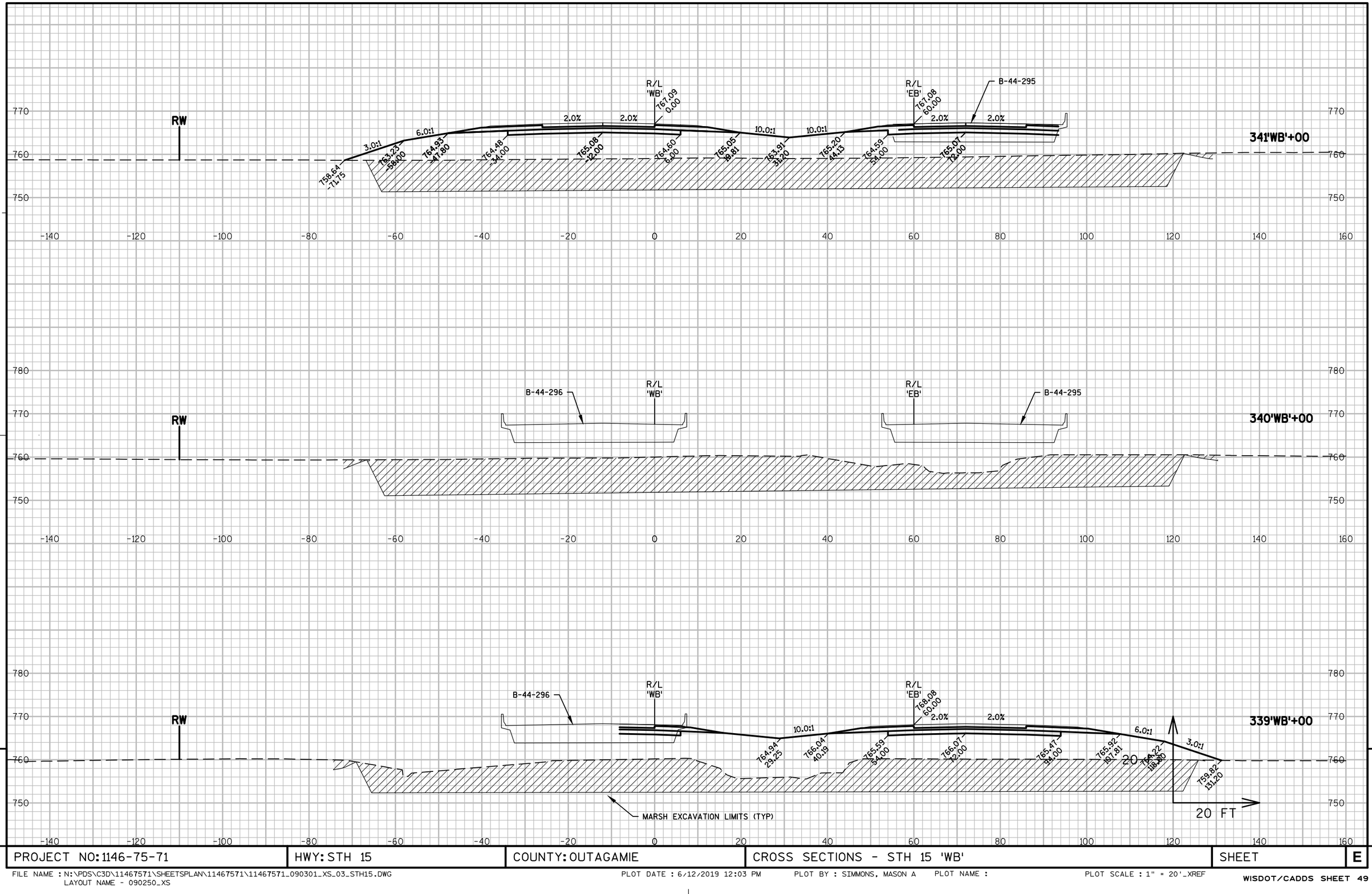
PLOT DATE : 6/12/2019 12:02 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_02_STH15.DWG
LAYOUT NAME - 090347_XS

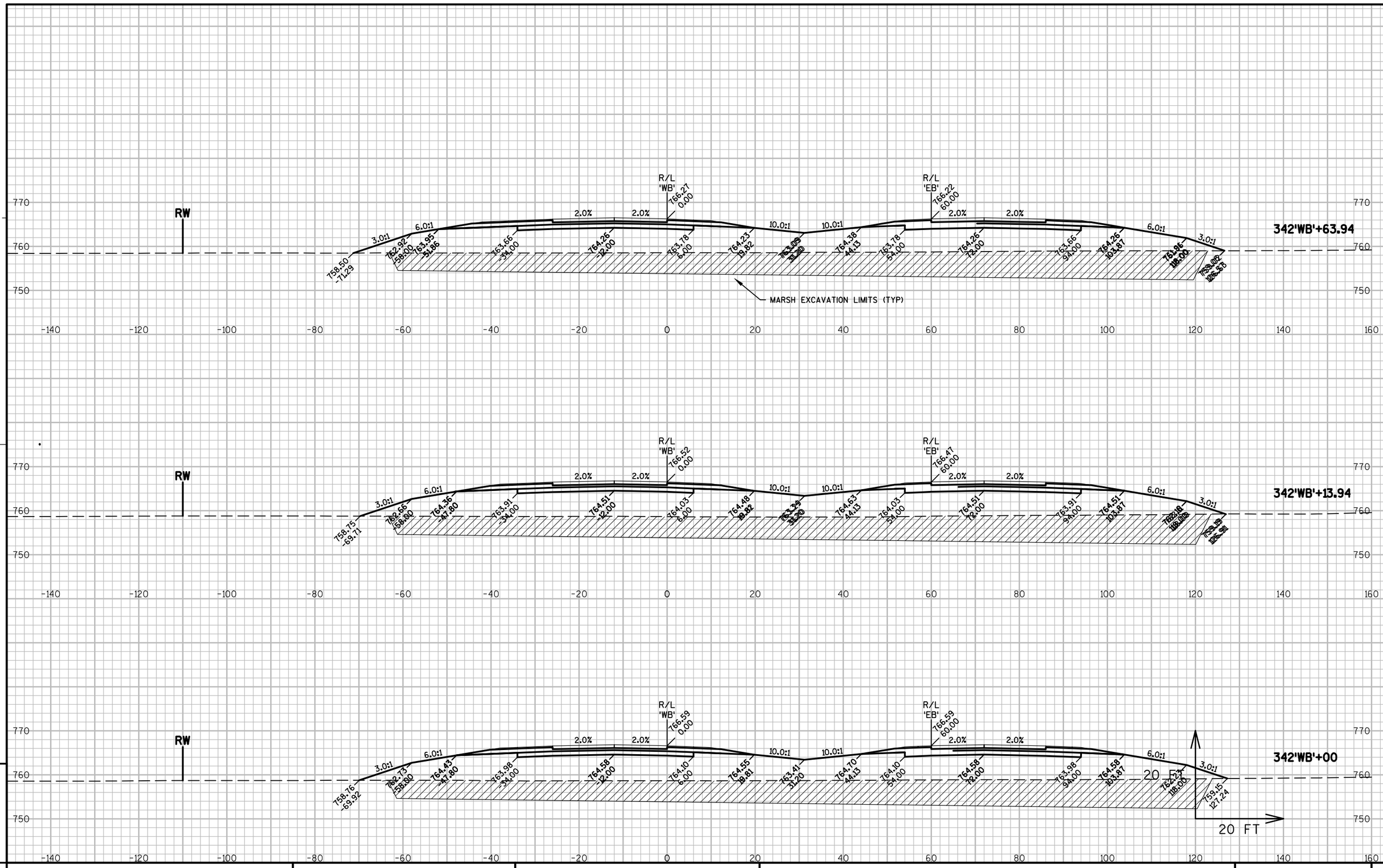
PLOT DATE : 6/12/2019 12:02 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090250_XS

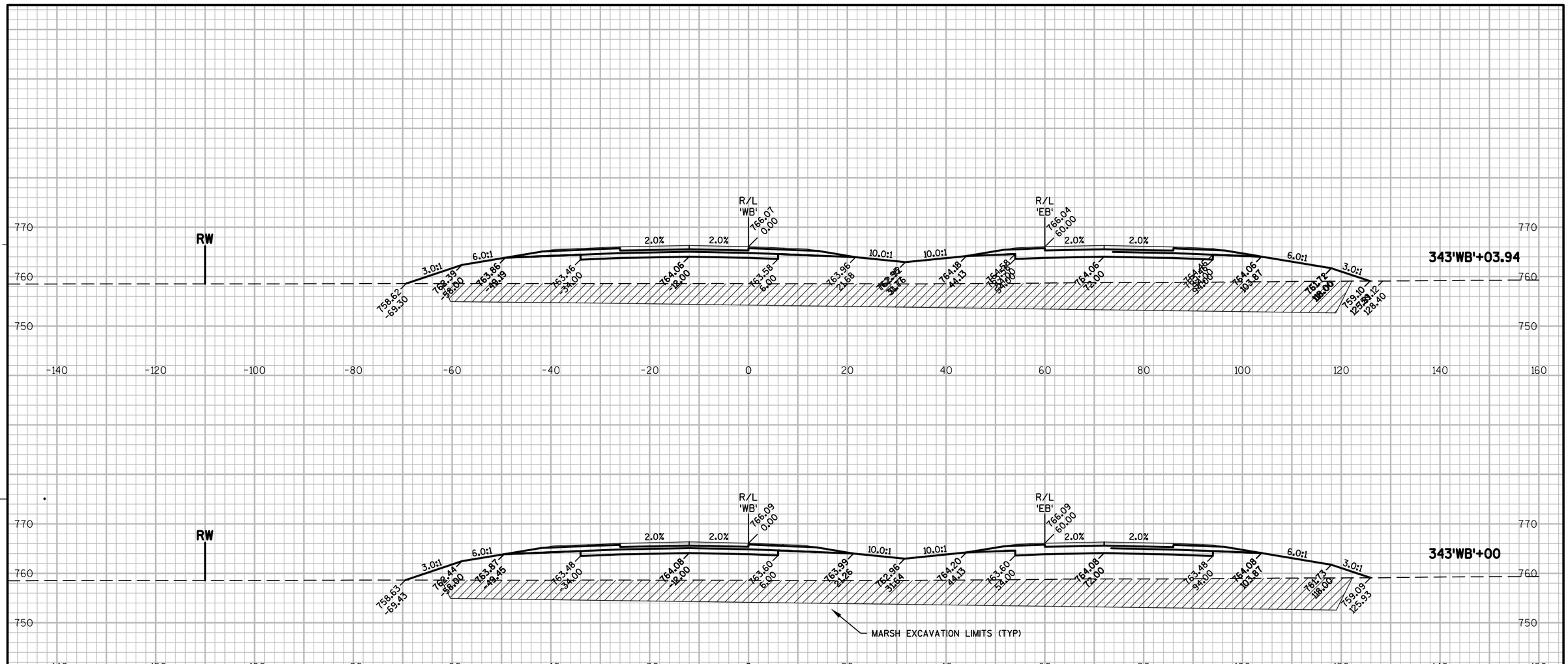
PLOT DATE : 6/12/2019 12:03 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

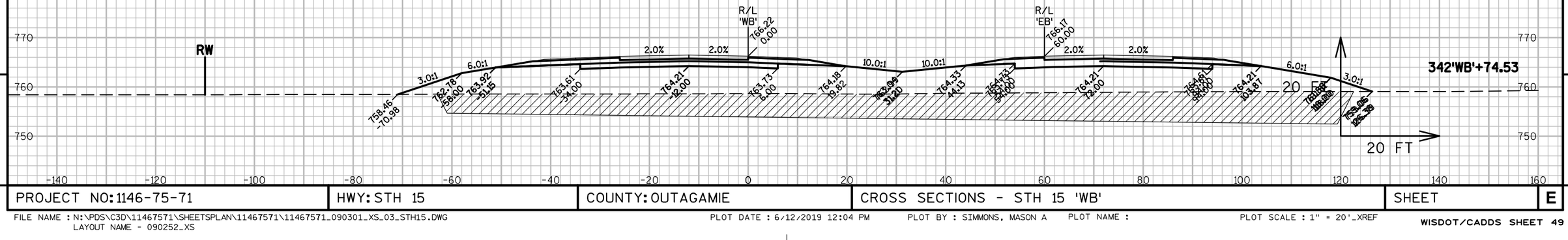


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090251_XS

PLOT DATE : 6/12/2019 12:03 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF





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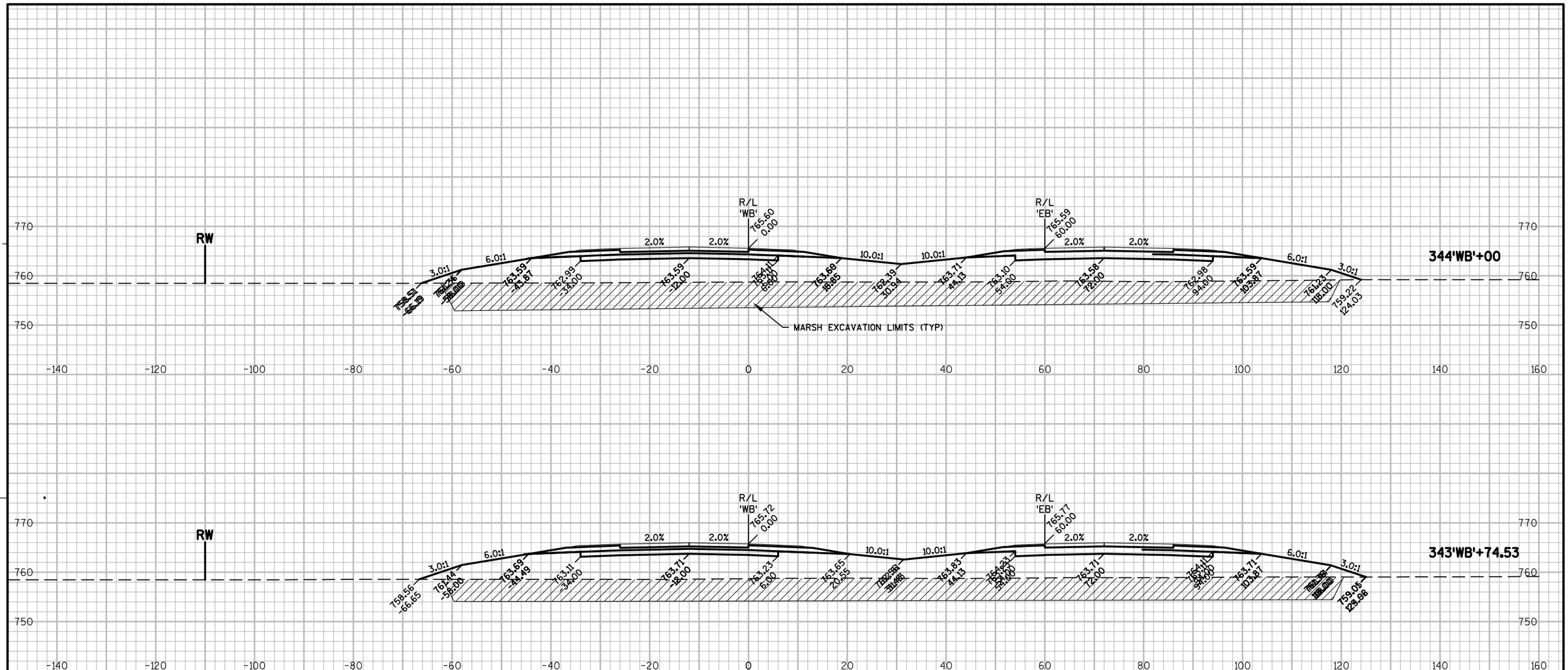
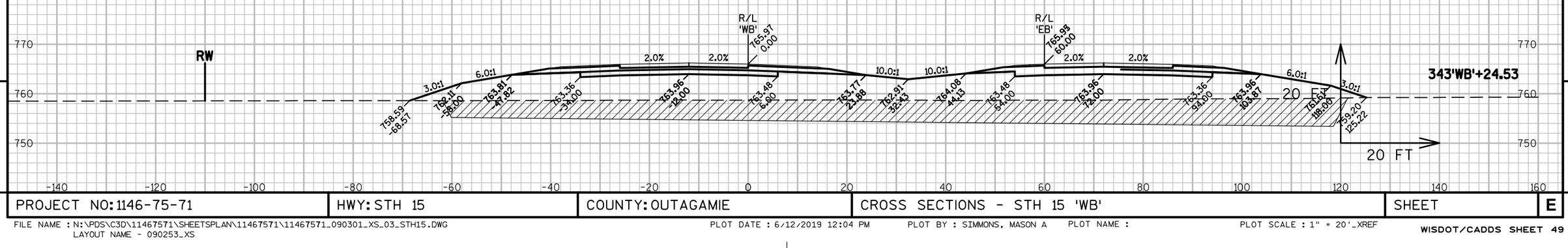
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090252_XS

PLOT DATE : 6/12/2019 12:04 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF





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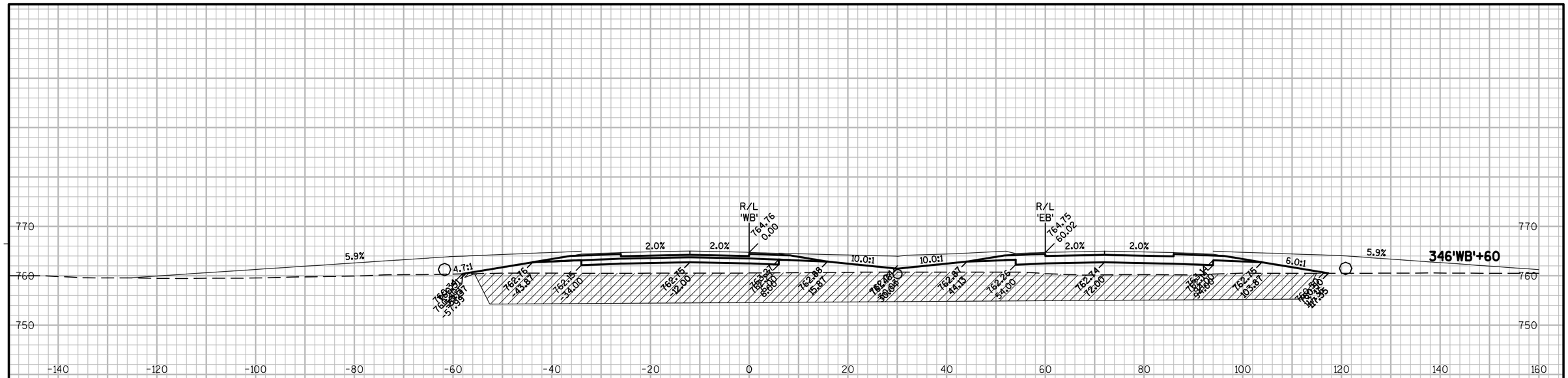
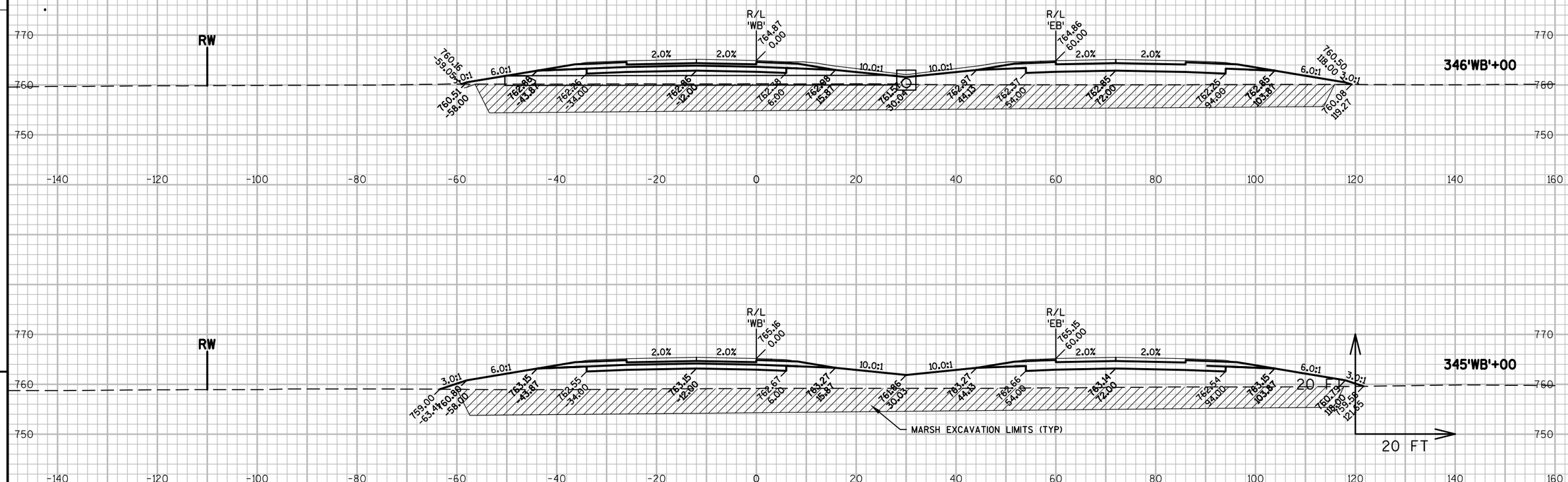
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090253_XS
PLOT DATE : 6/12/2019 12:04 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF





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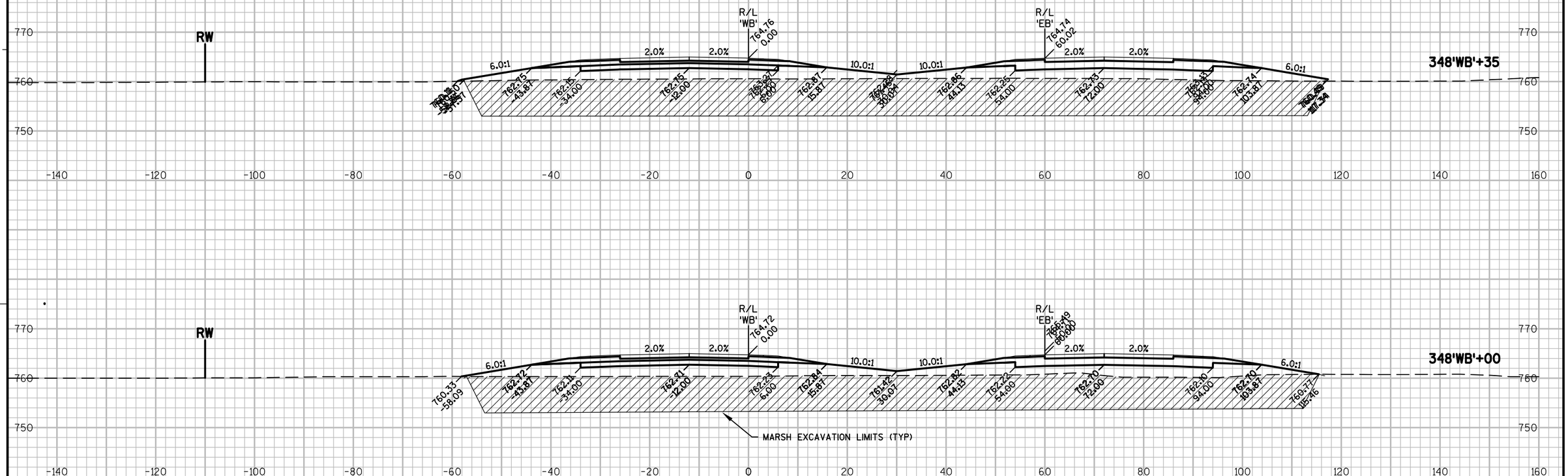
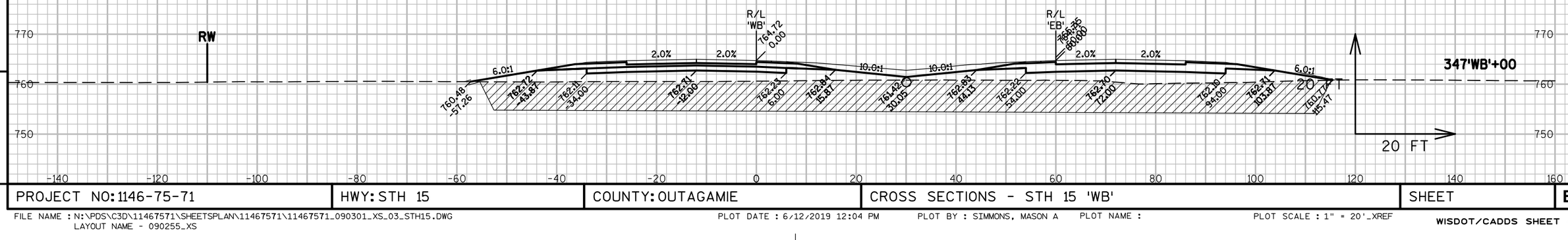
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090254_XS
PLOT DATE : 6/12/2019 12:04 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49





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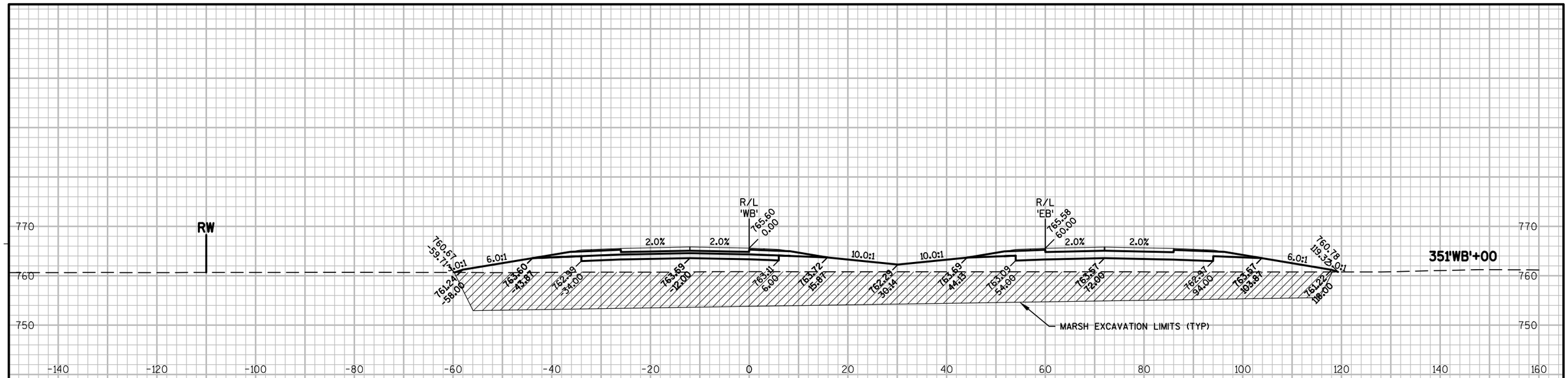
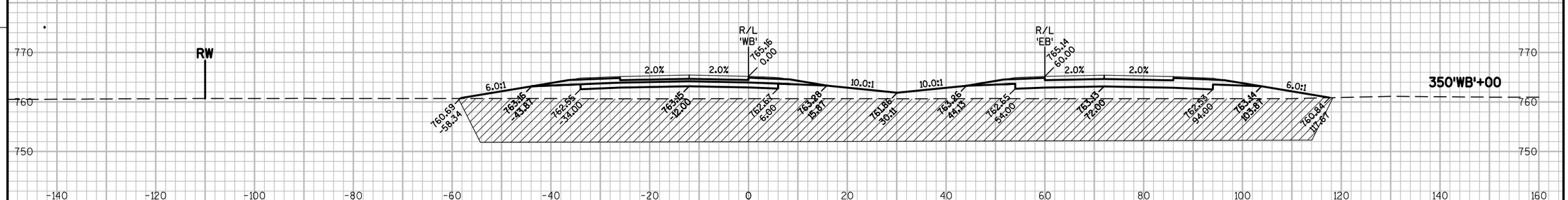
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

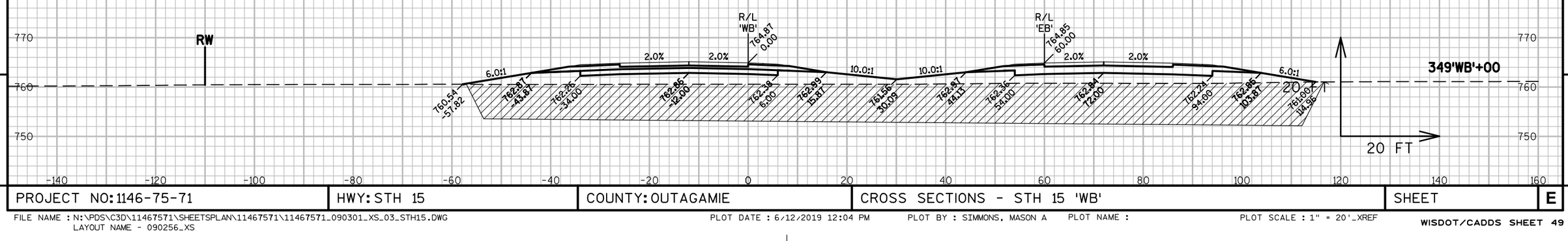
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090255_XS

PLOT DATE : 6/12/2019 12:04 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49







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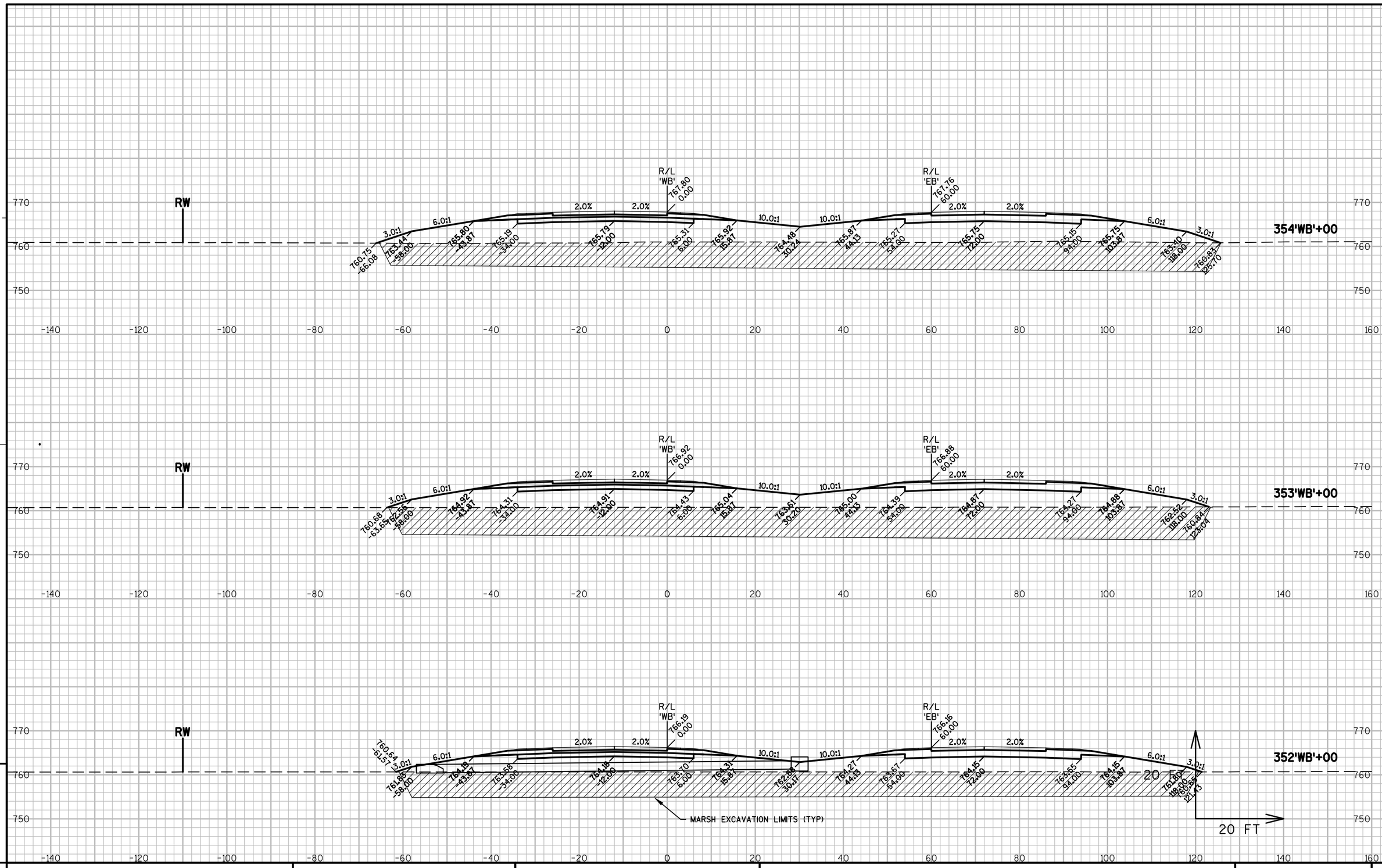
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090256_XS

PLOT DATE : 6/12/2019 12:04 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

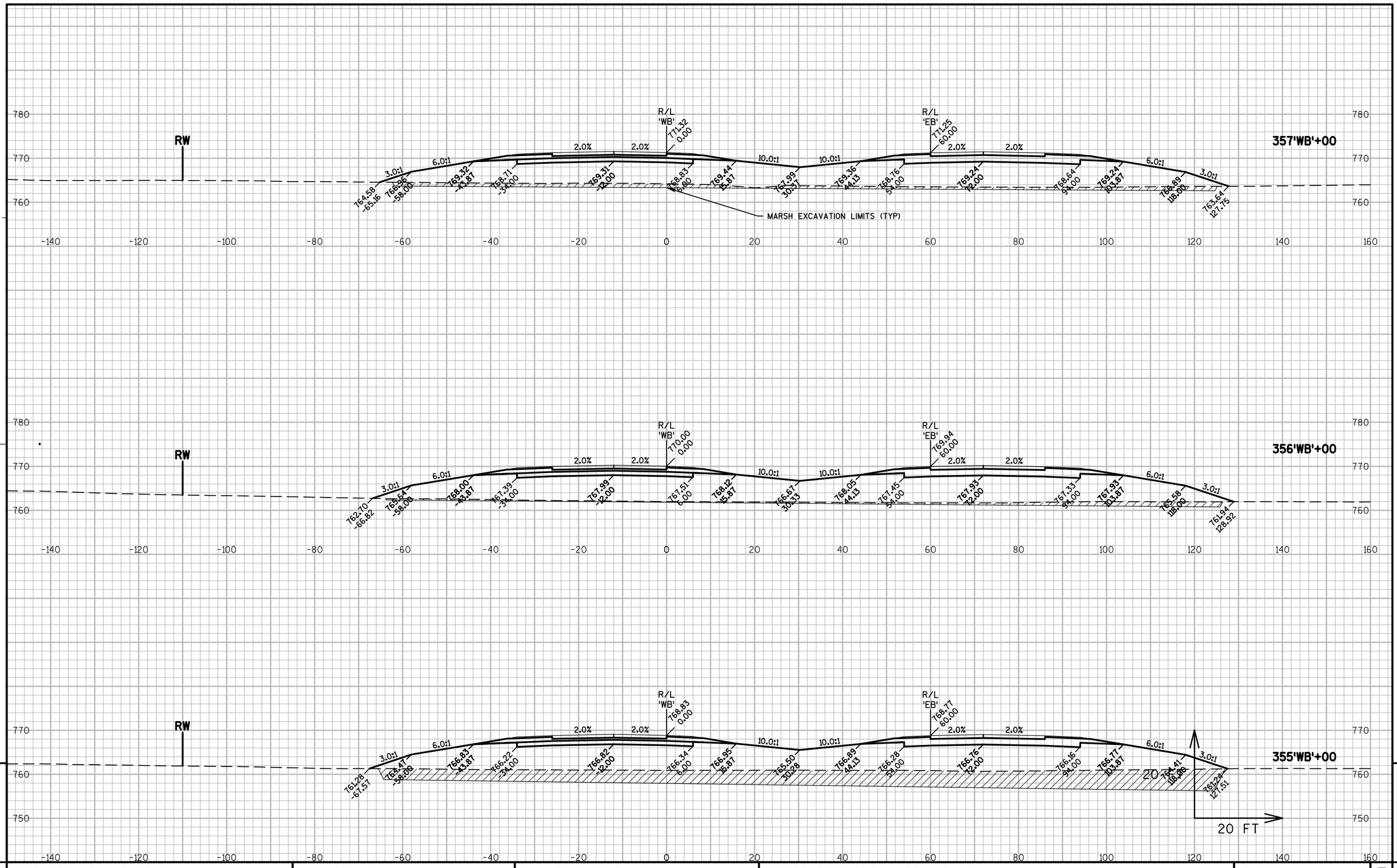
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090257_XS

PLOT DATE : 6/12/2019 12:04 PM 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090258_XS
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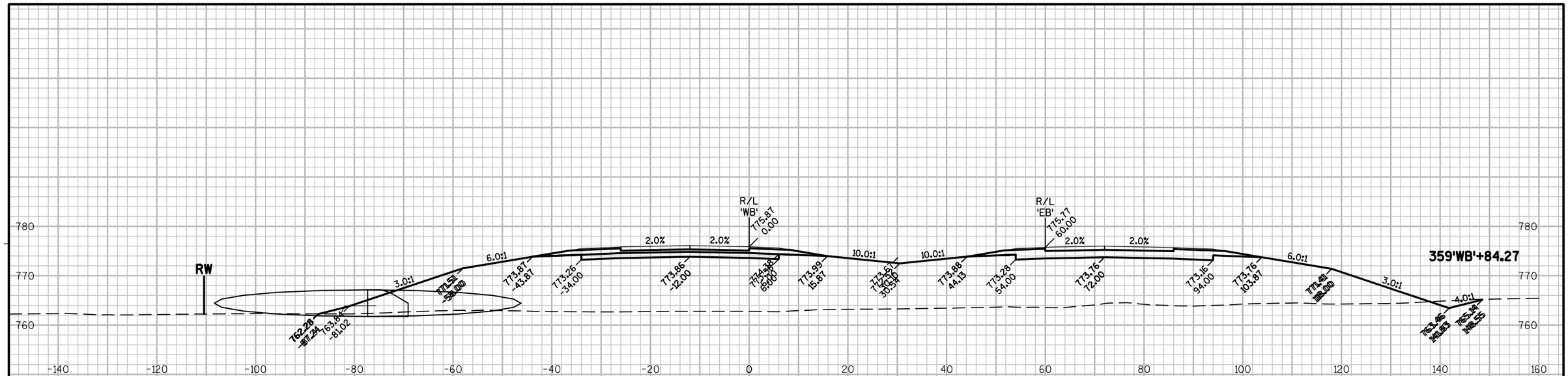

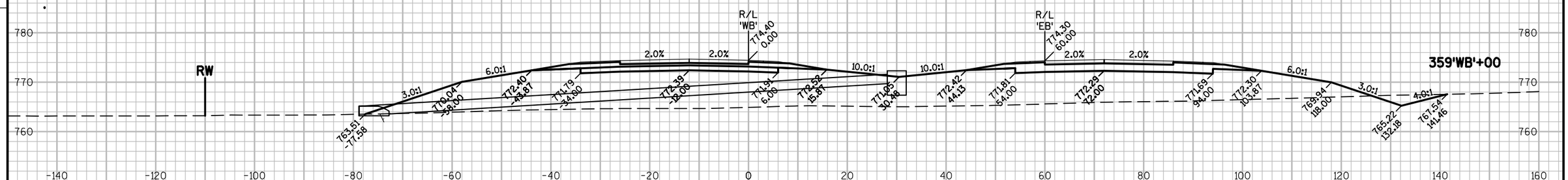

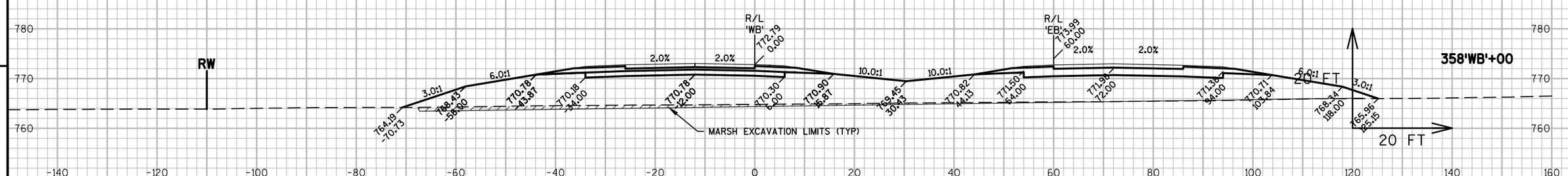

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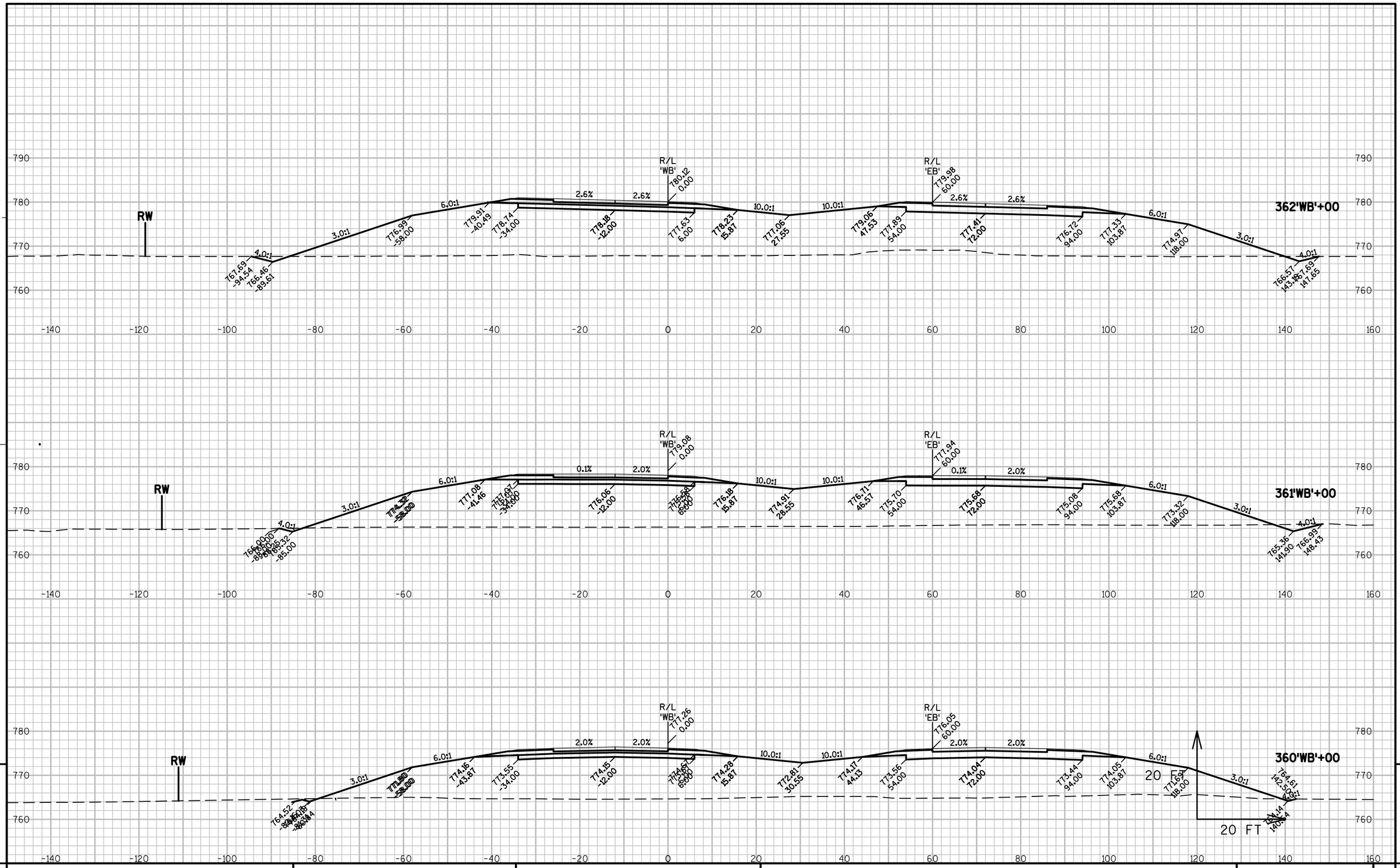
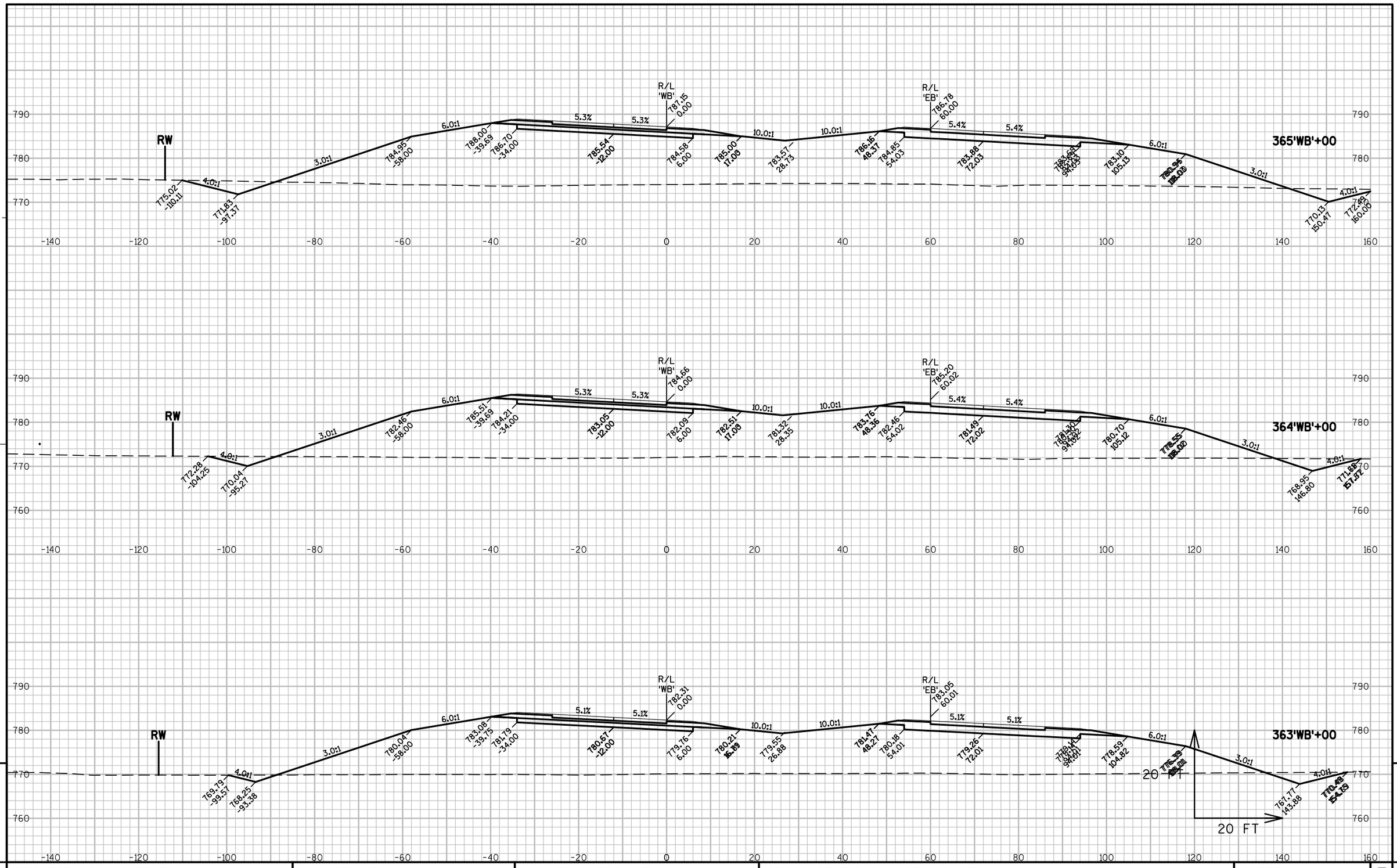
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090259_XS
PLOT DATE : 6/12/2019 12:04 PM 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	E



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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
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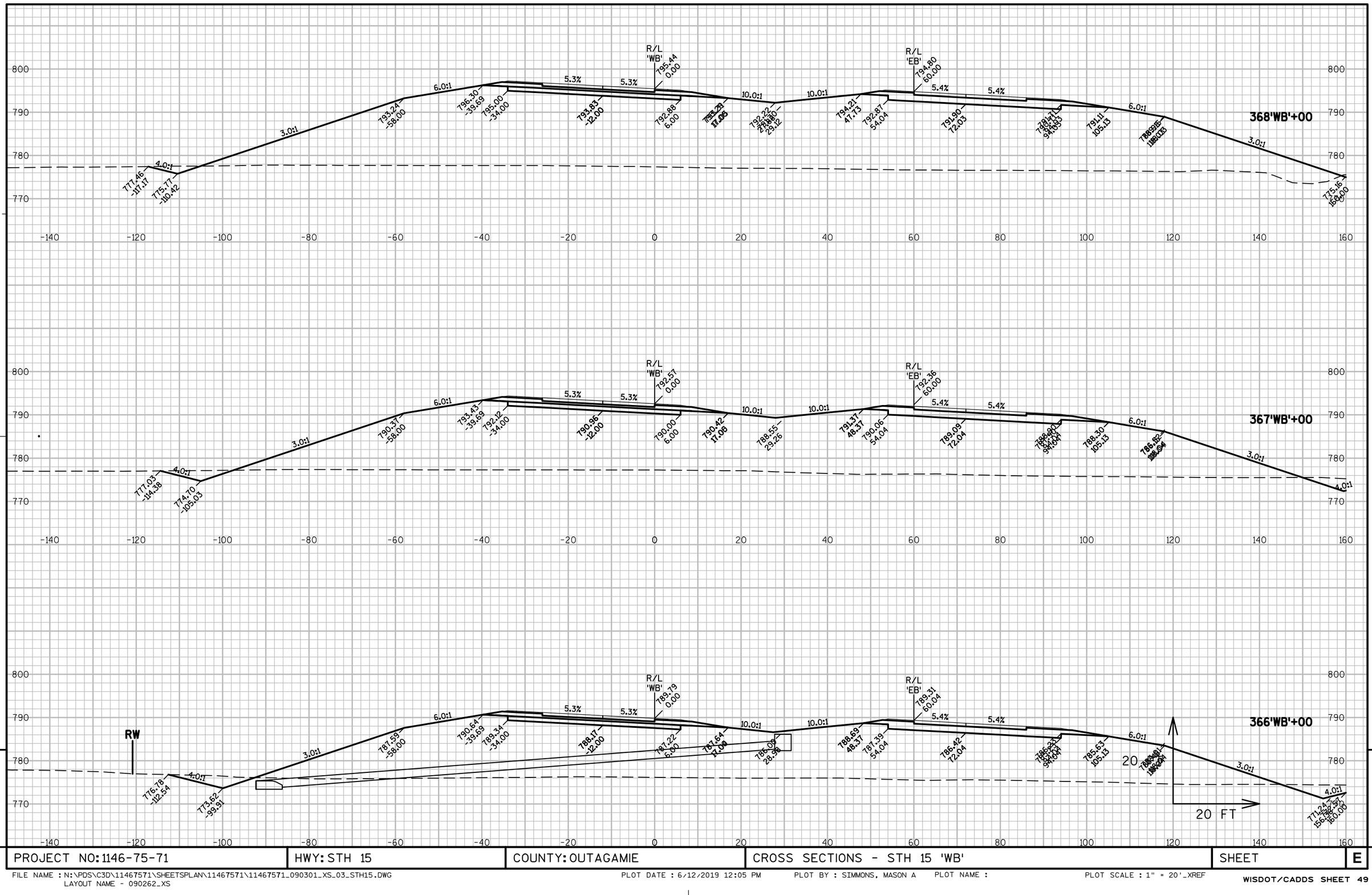
PLOT DATE : 6/12/2019 12:05 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090262_XS
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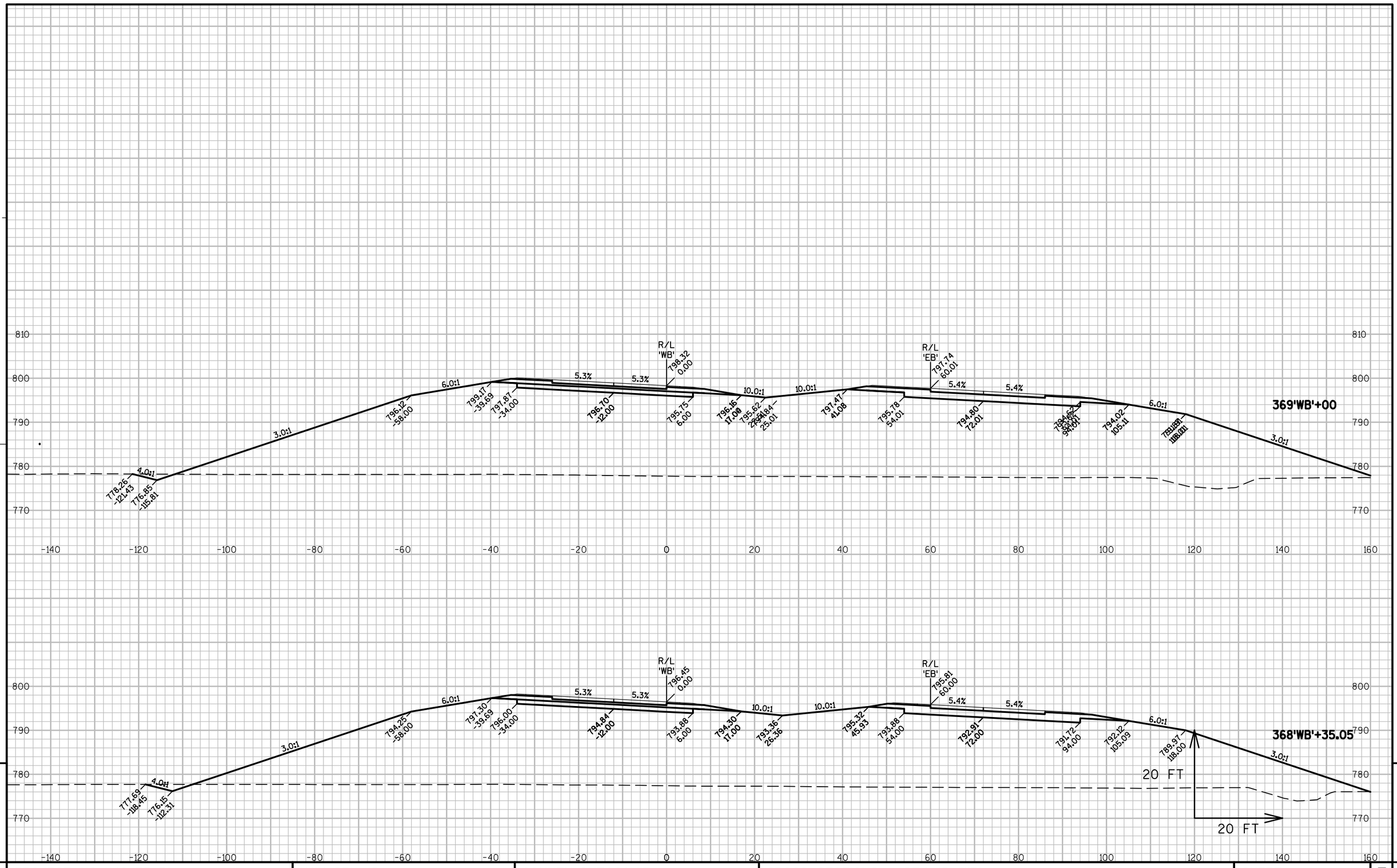
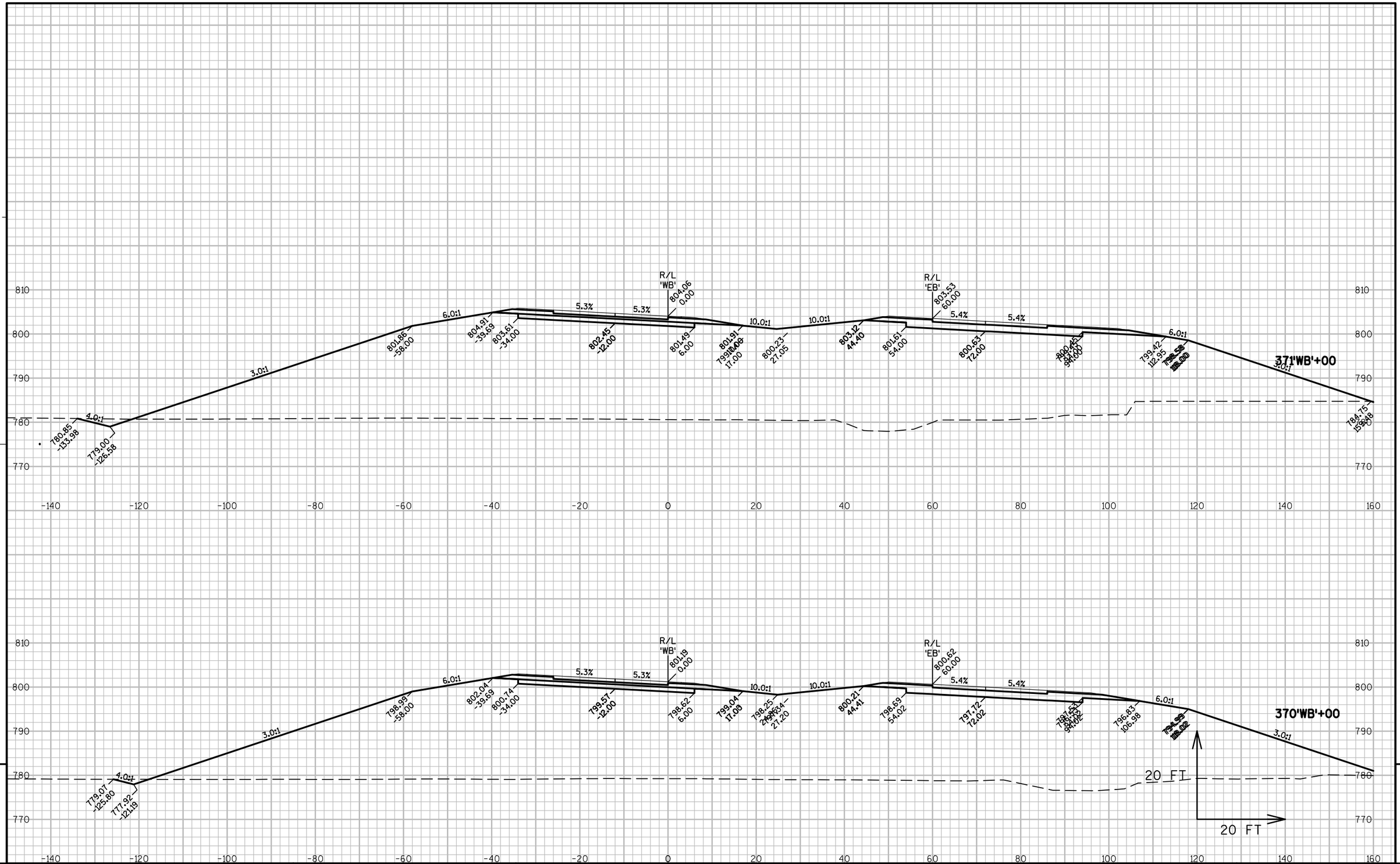


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E



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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
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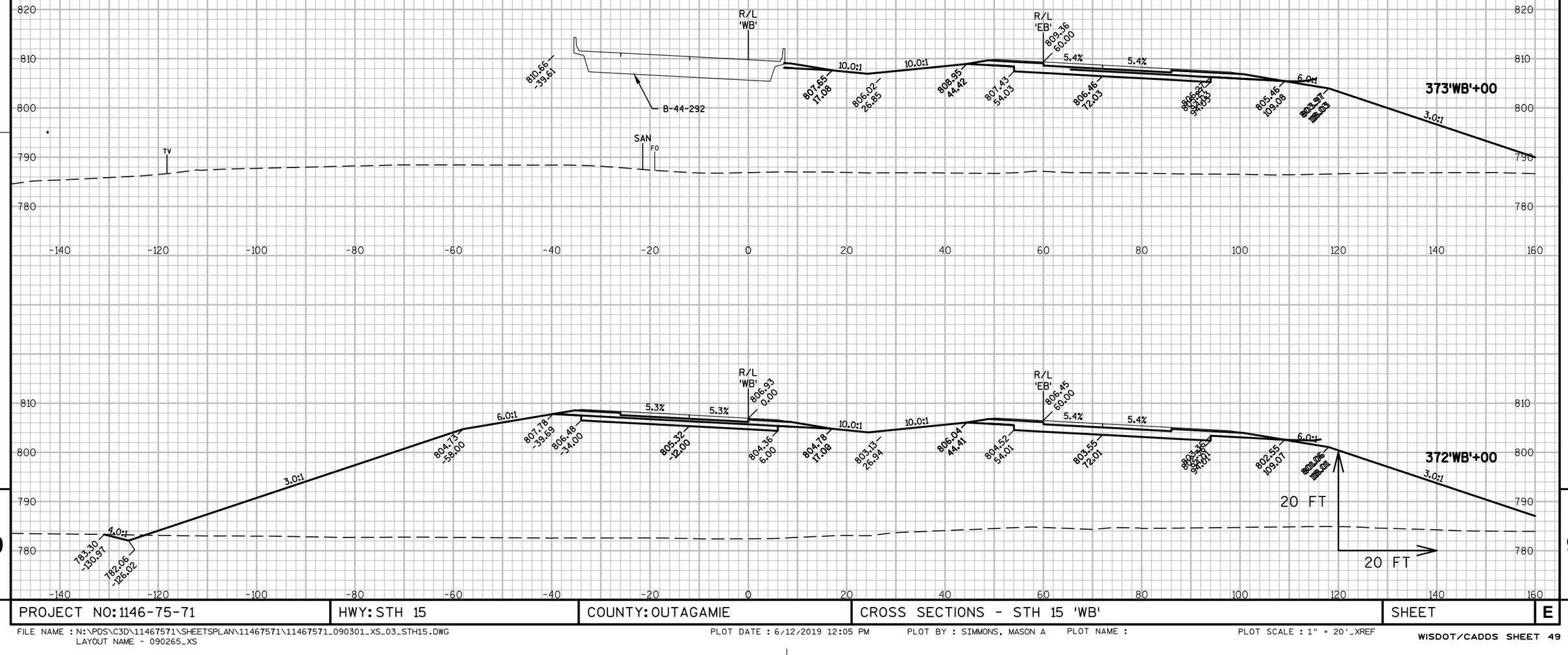
PLOT DATE : 6/12/2019 12:05 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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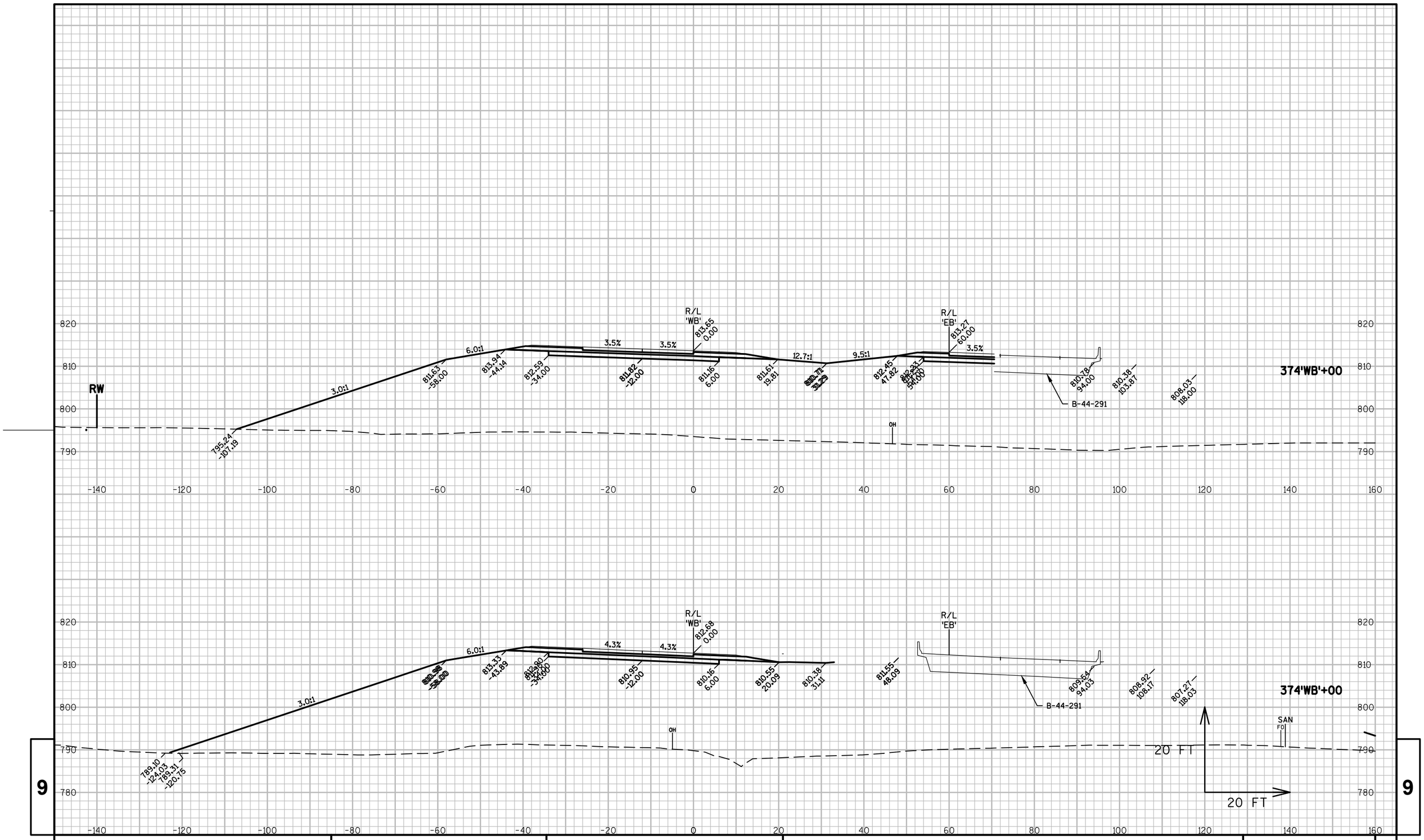
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

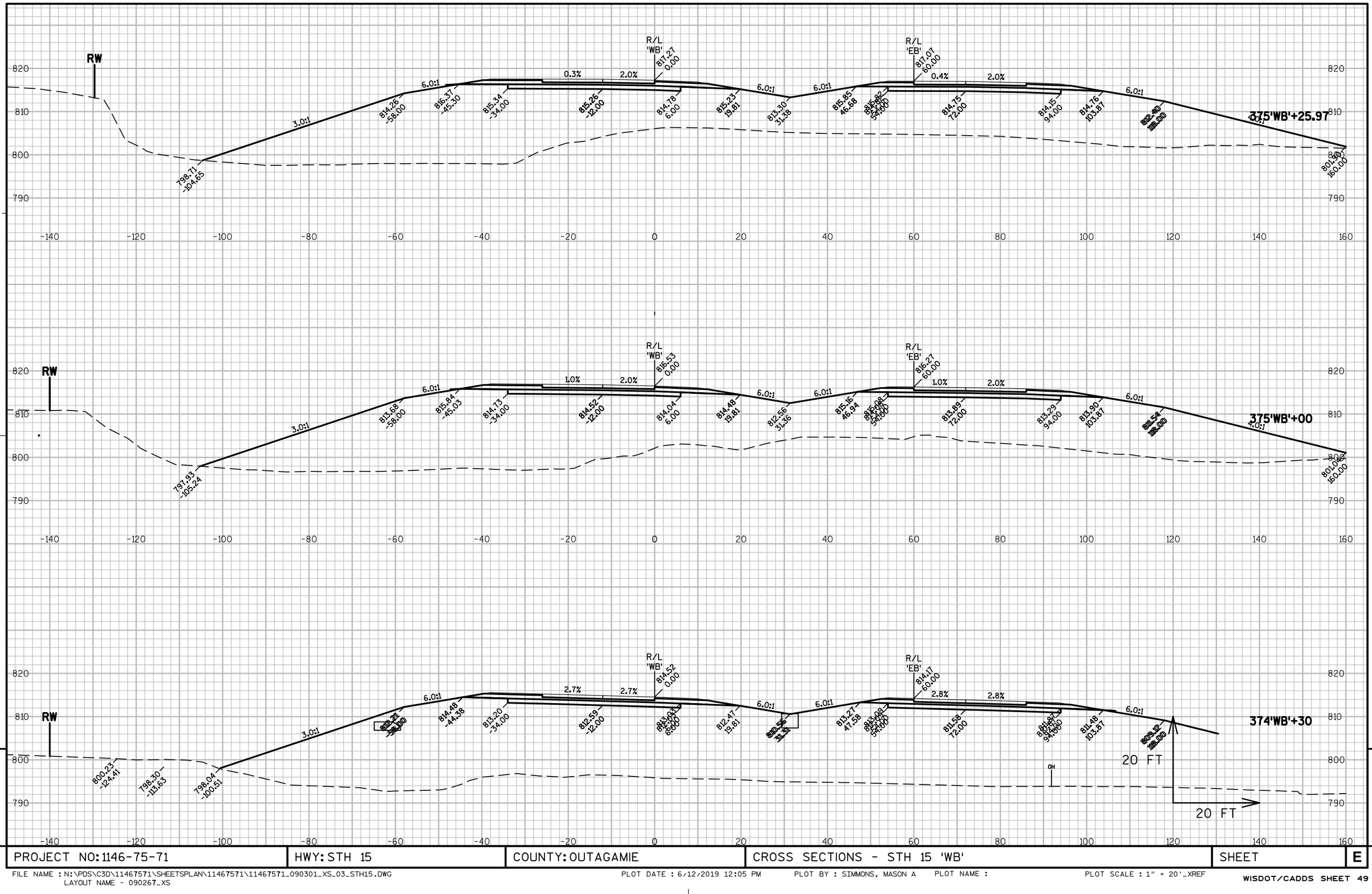
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090265_XS
PLOT DATE : 6/12/2019 12:05 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090266_XS

PLOT DATE : 6/12/2019 12:05 PM 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
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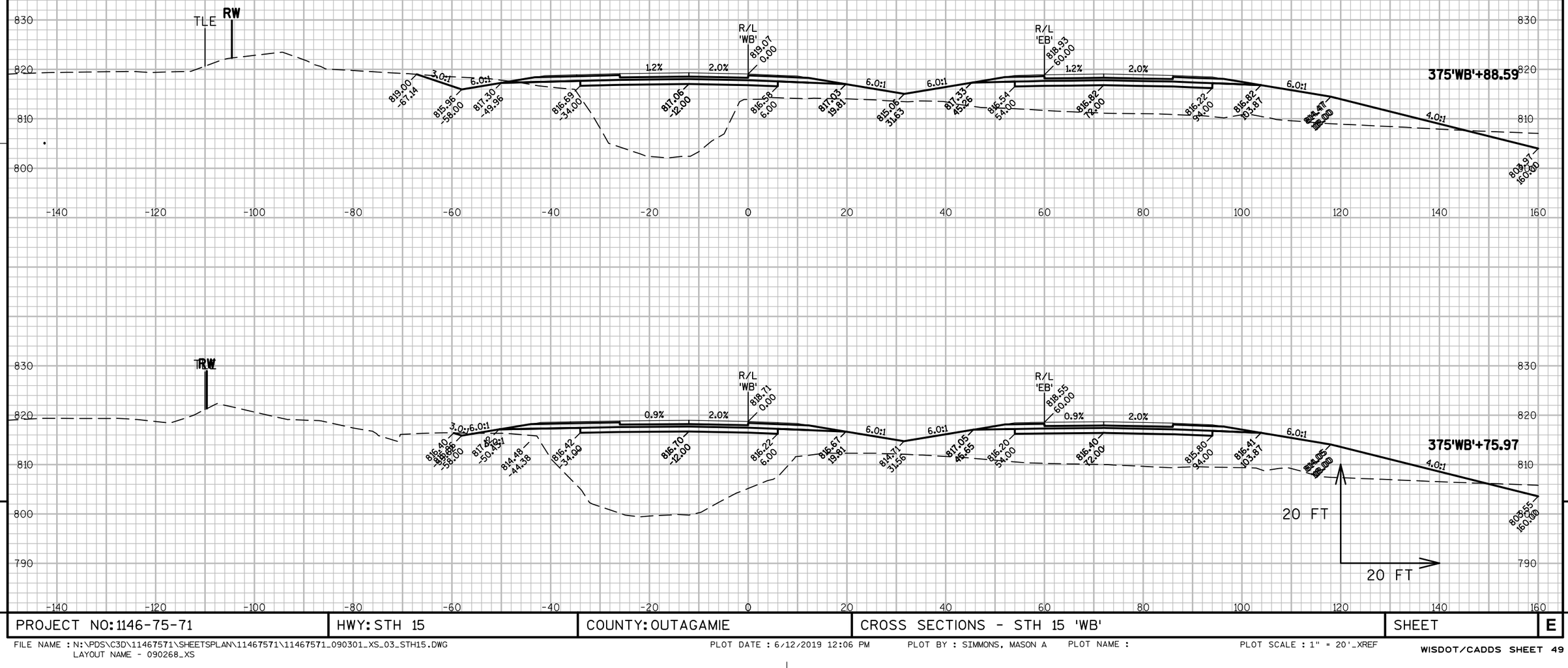
PLOT DATE : 6/12/2019 12:05 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

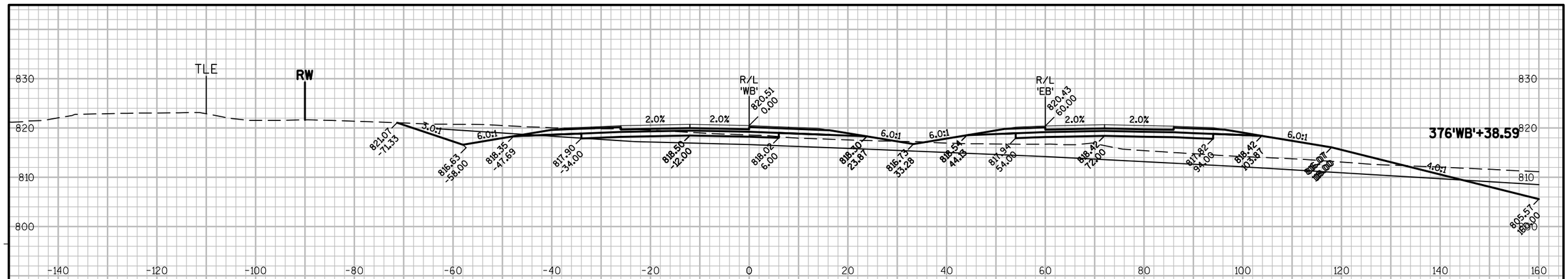


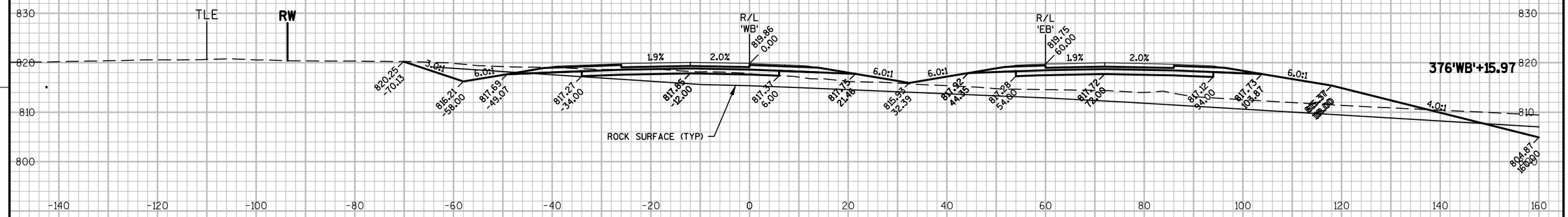
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

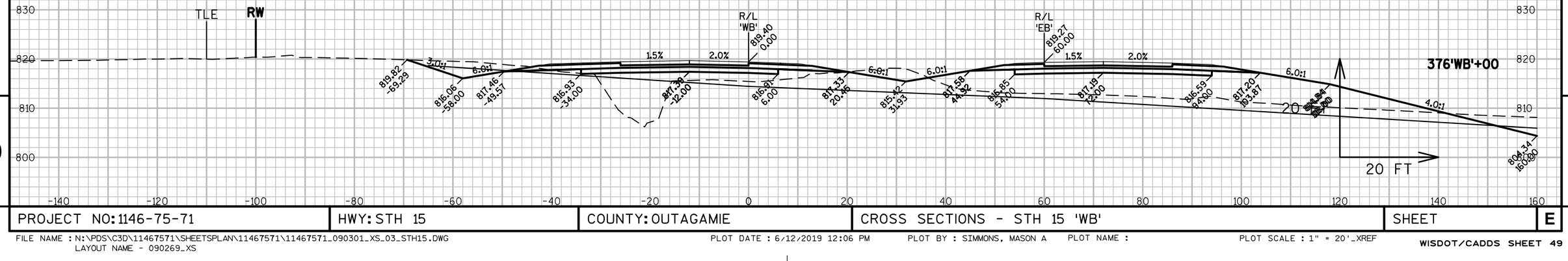
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090268_XS

PLOT DATE : 6/12/2019 12:06 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49







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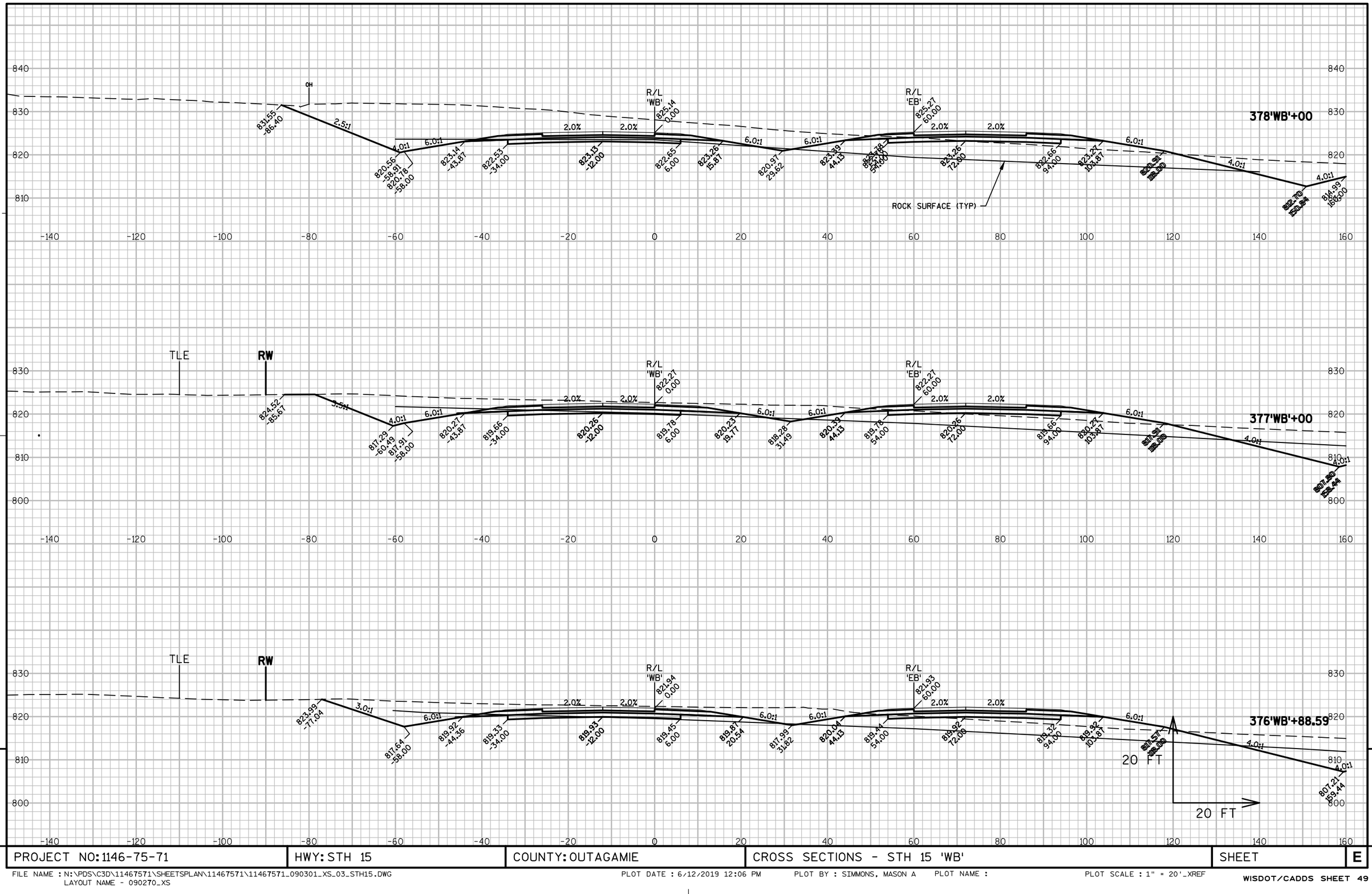
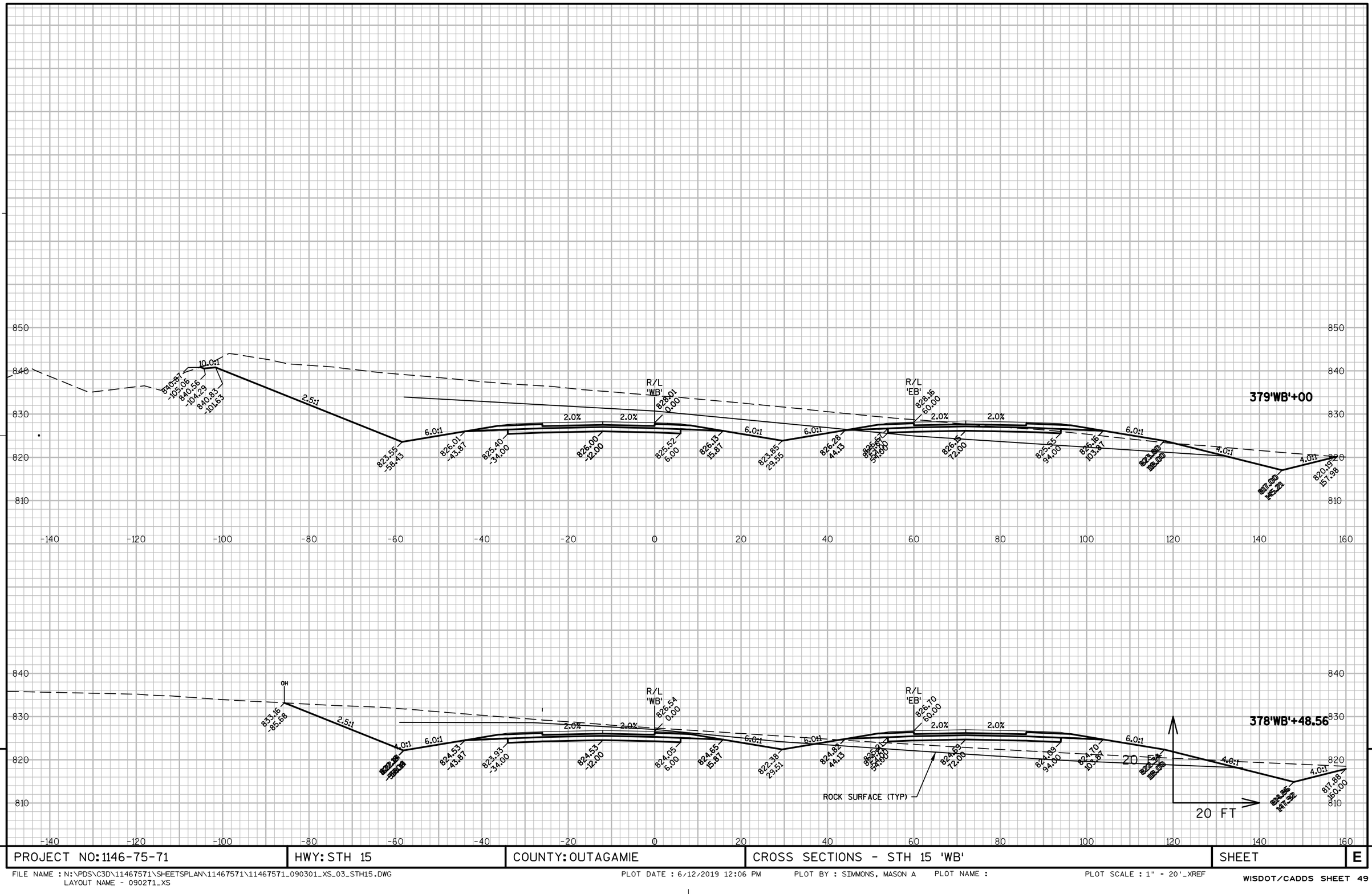
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090269_XS

PLOT DATE : 6/12/2019 12:06 PM 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	E



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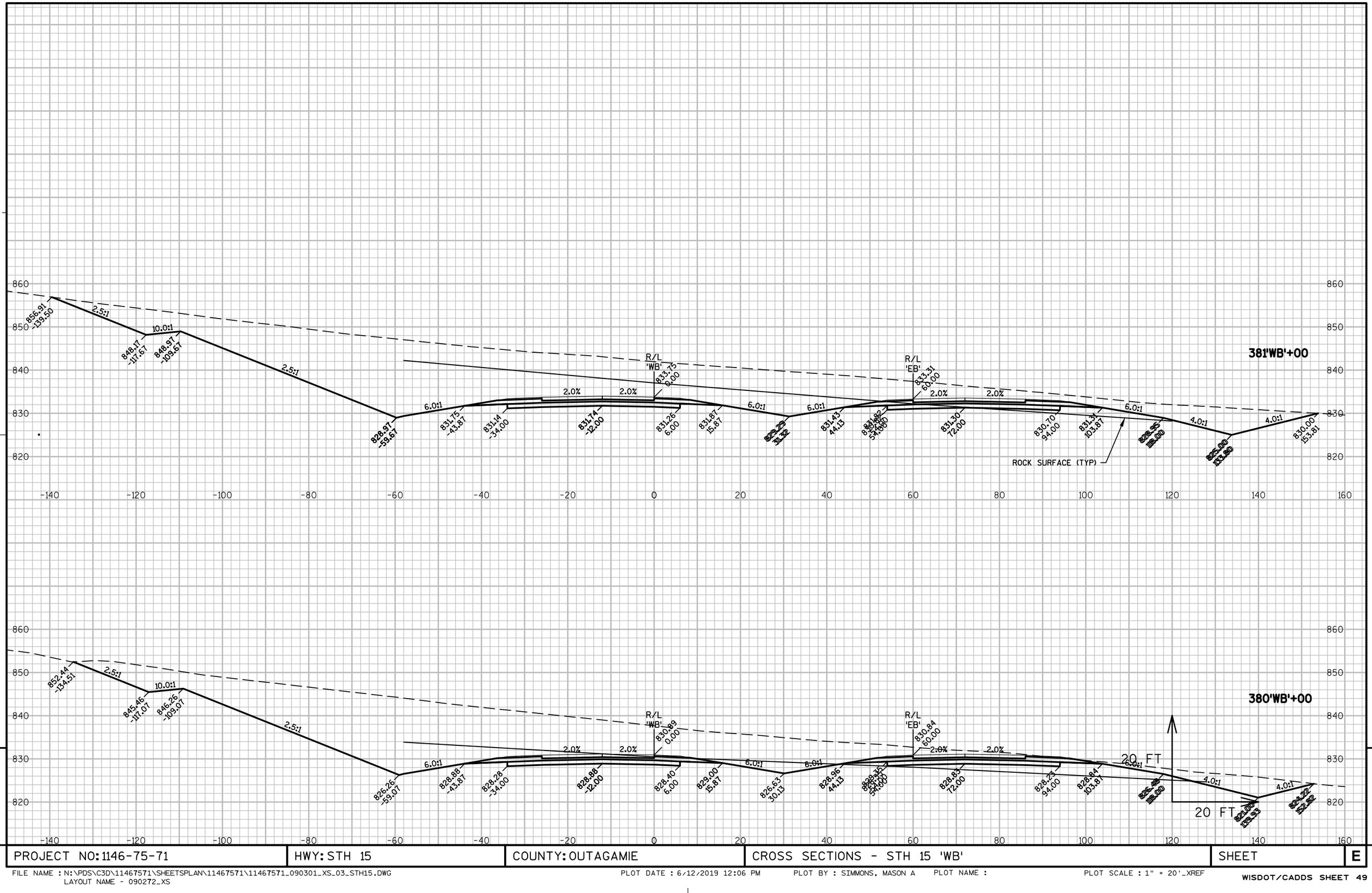
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090271_XS
PLOT DATE : 6/12/2019 12:06 PM 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
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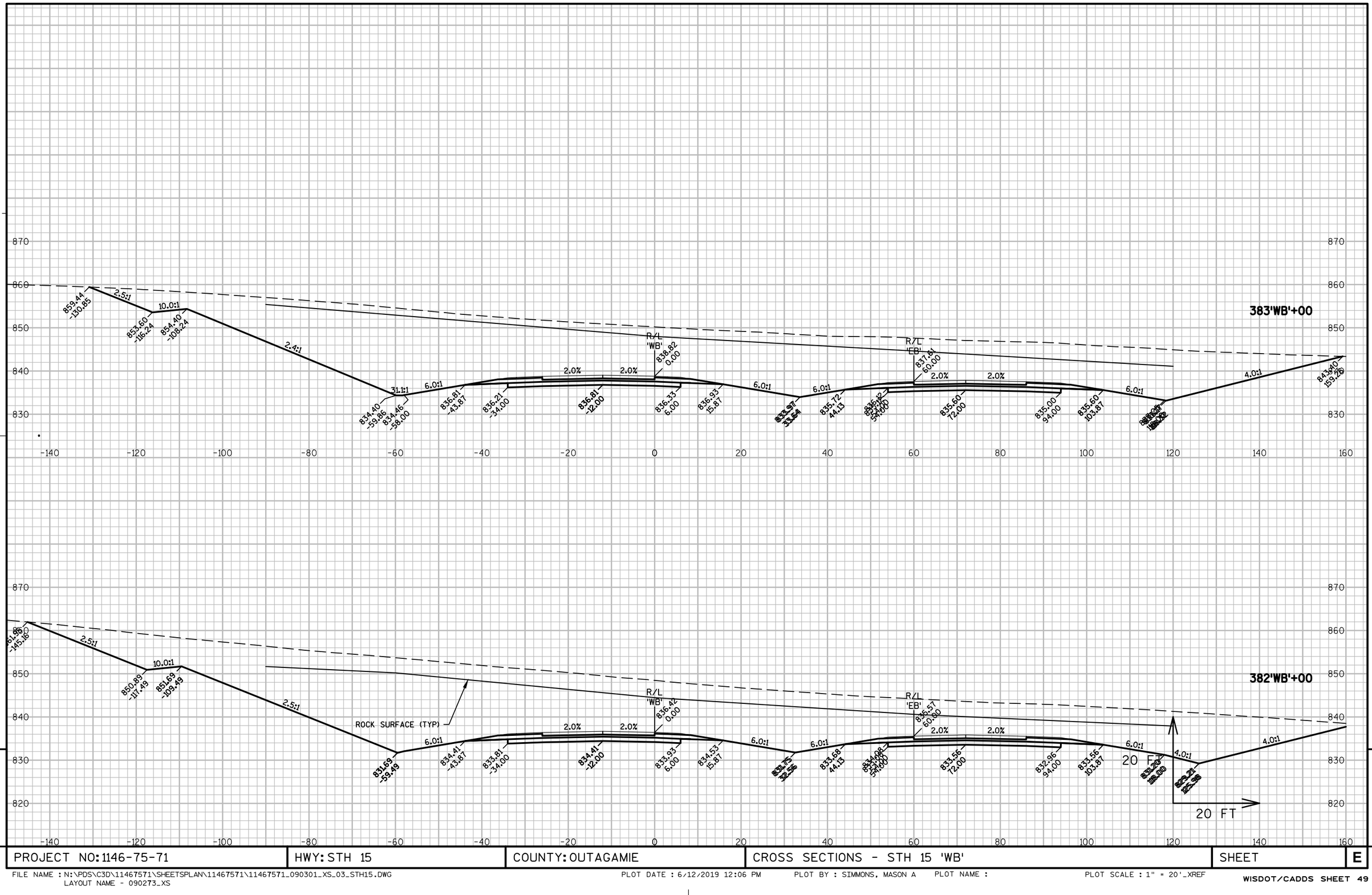
PLOT DATE : 6/12/2019 12:06 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

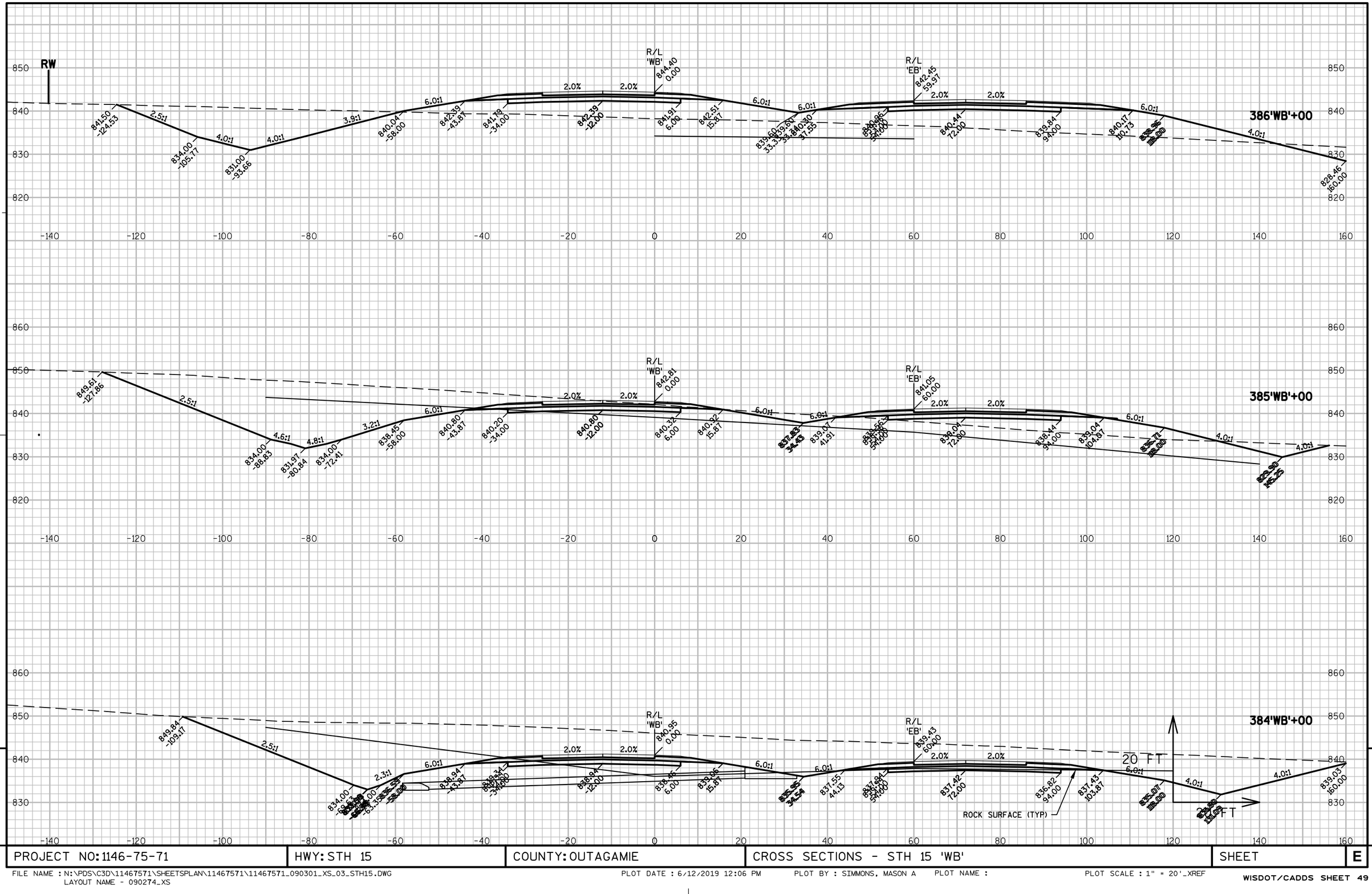


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090273_XS

PLOT DATE : 6/12/2019 12:06 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

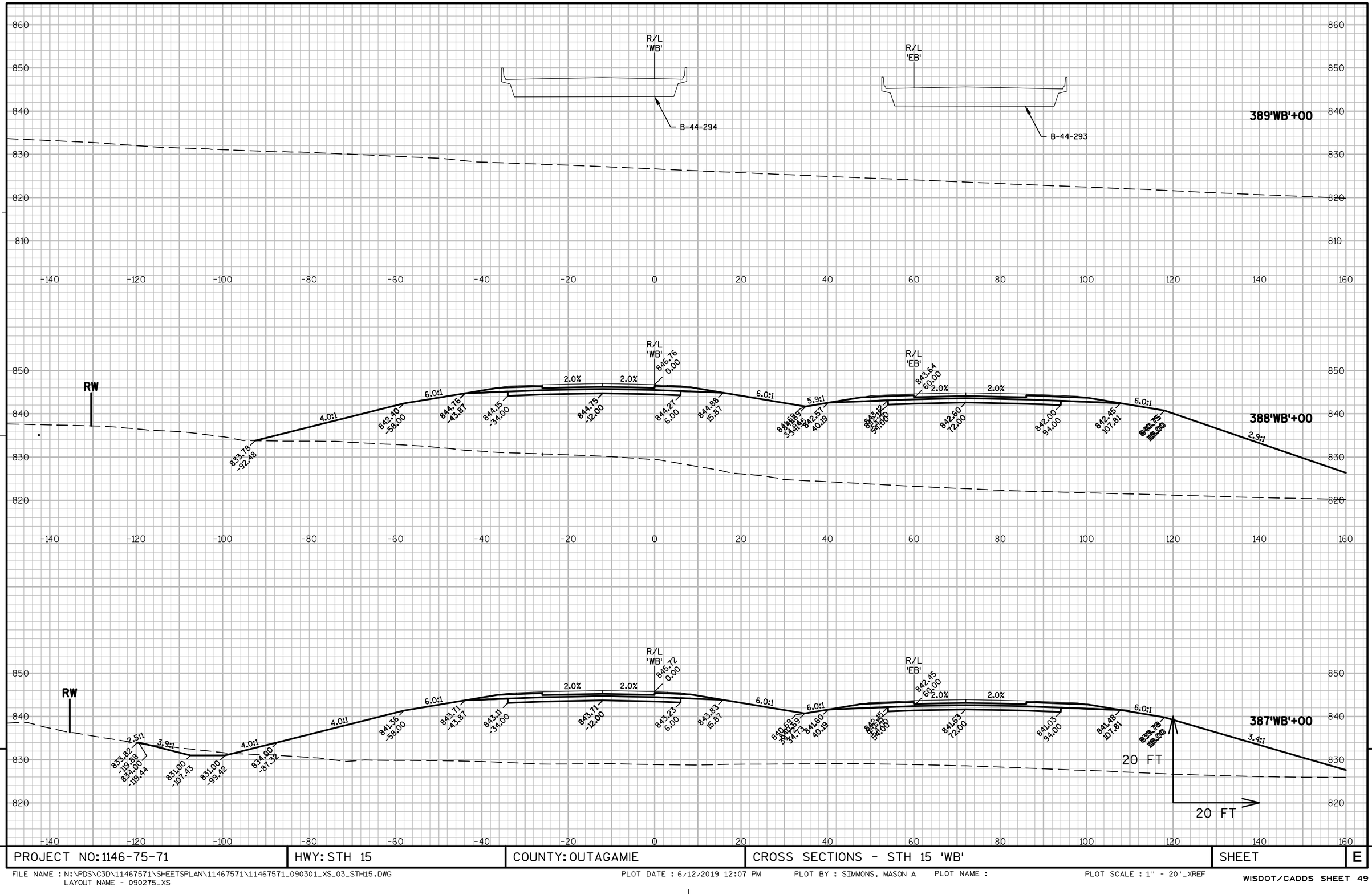


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090274_XS

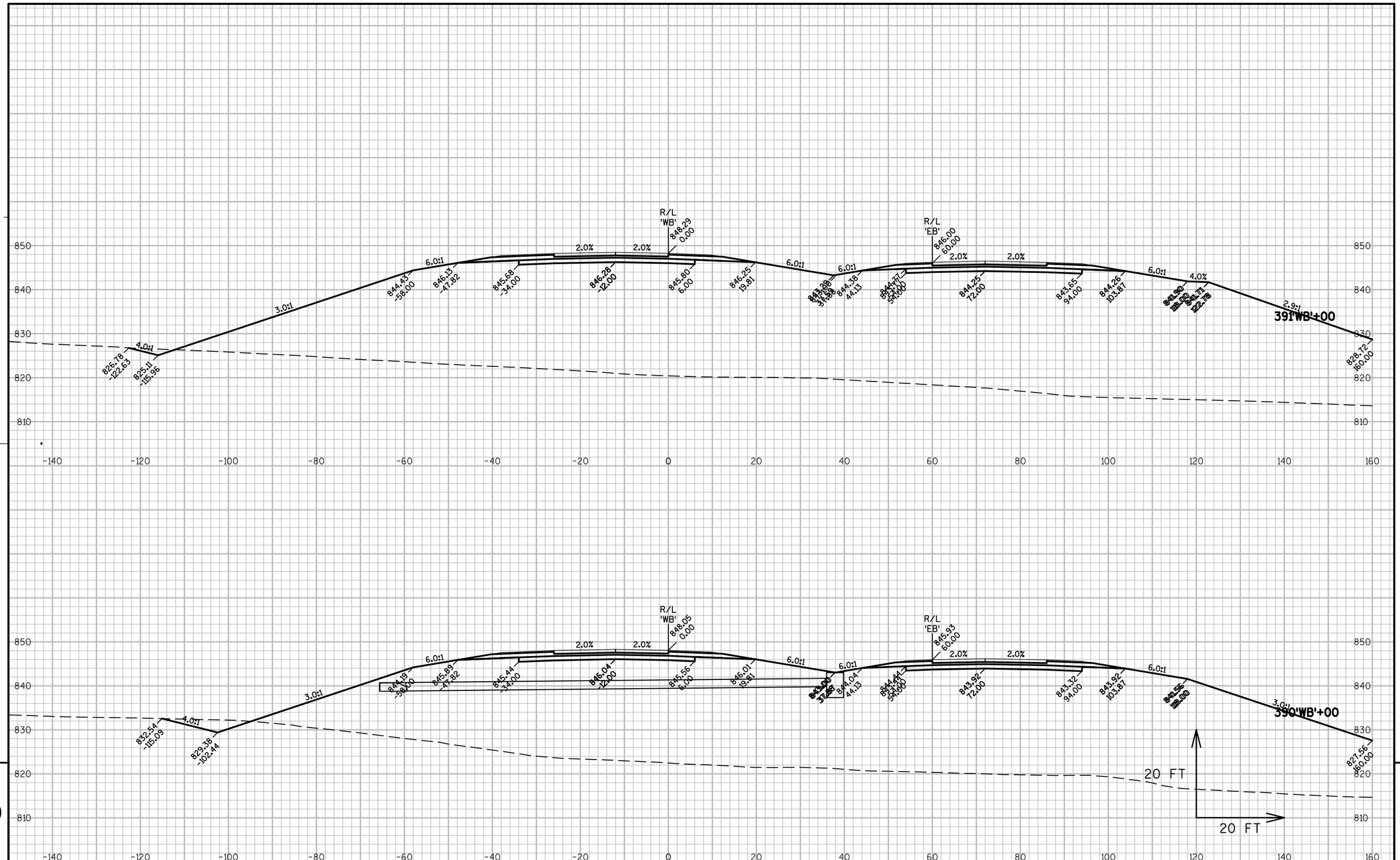
PLOT DATE : 6/12/2019 12:06 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



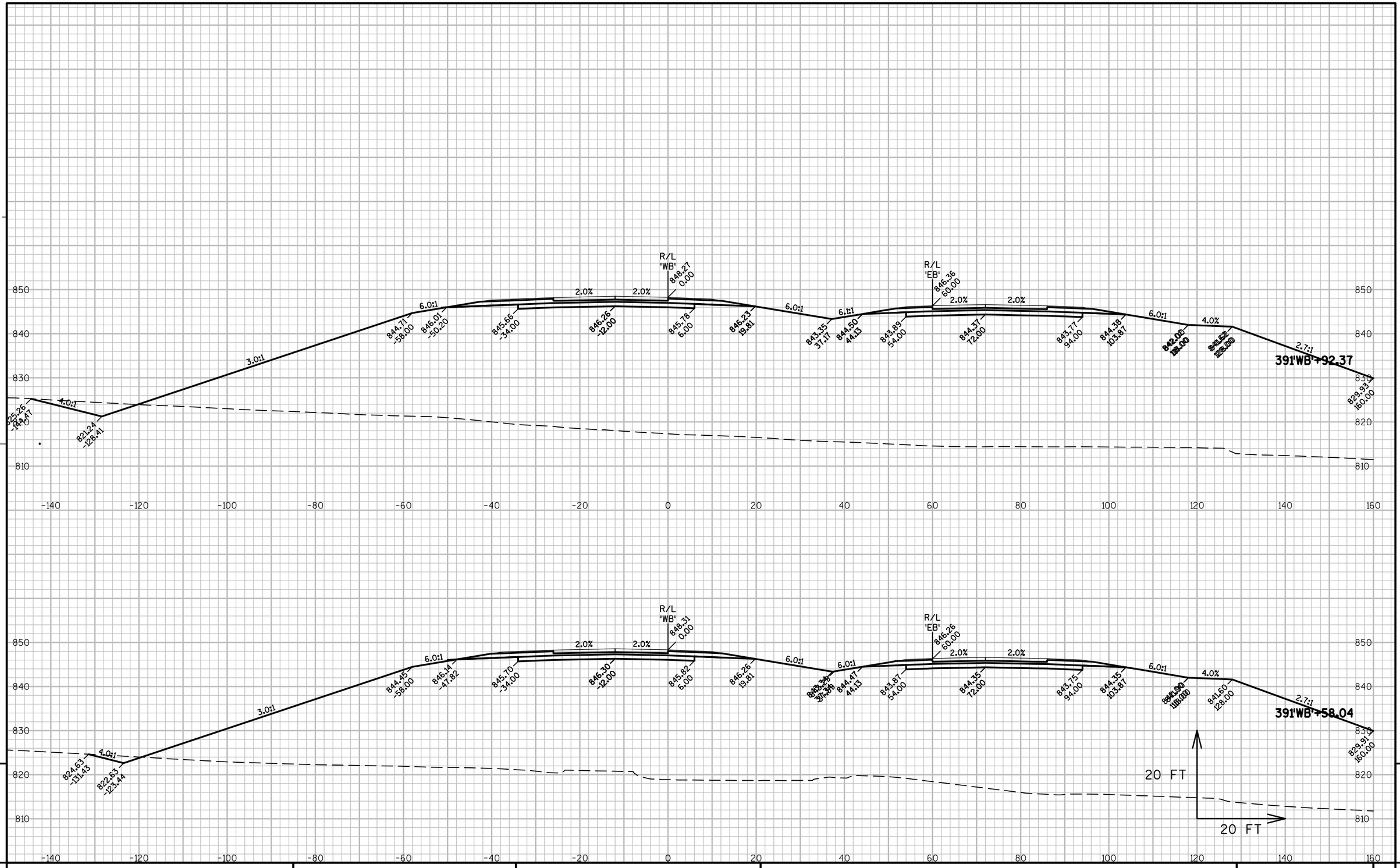
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090275_XS
PLOT DATE : 6/12/2019 12:07 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



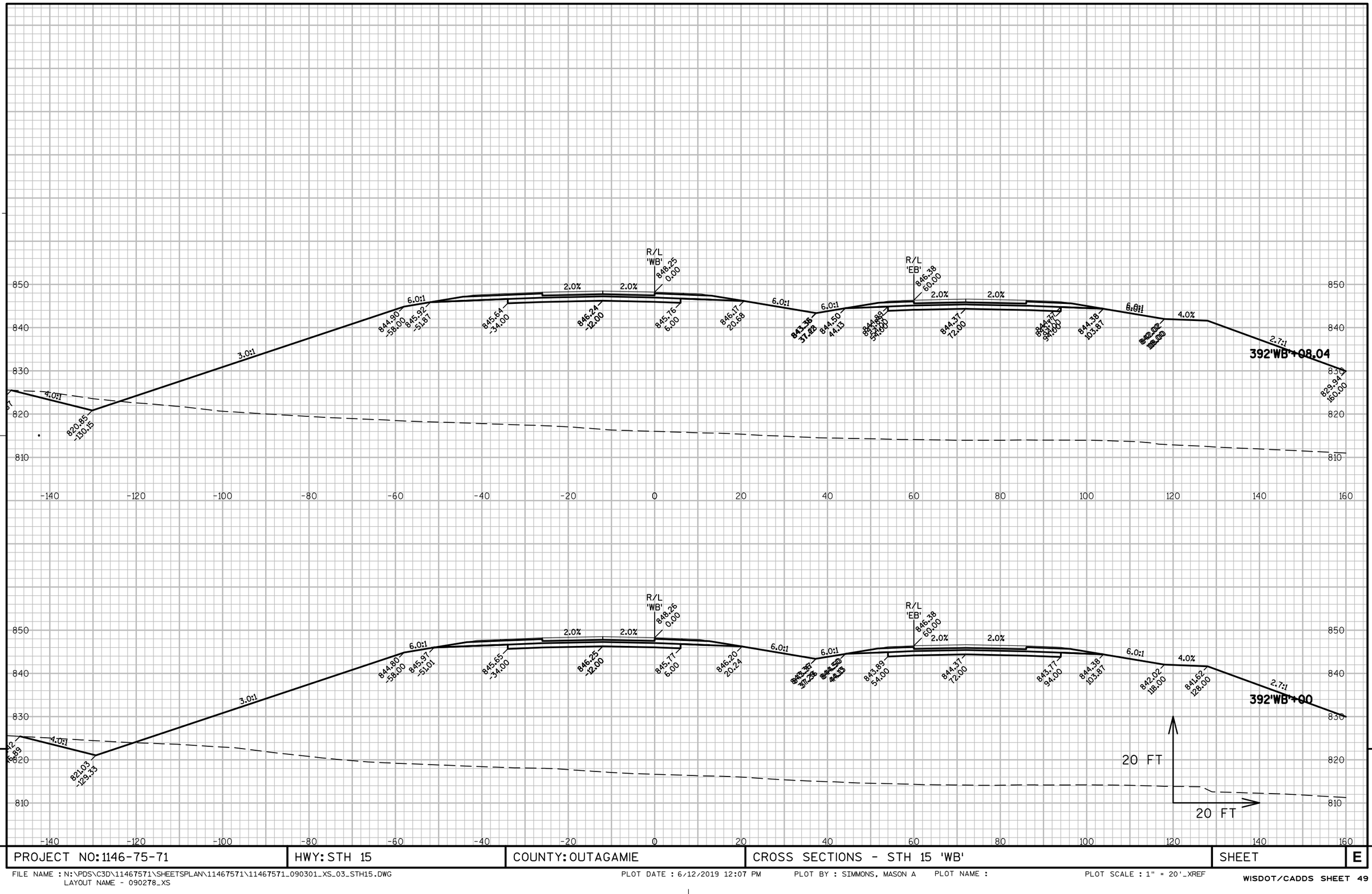
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090276_XS
PLOT DATE : 6/12/2019 12:07 PM 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	E

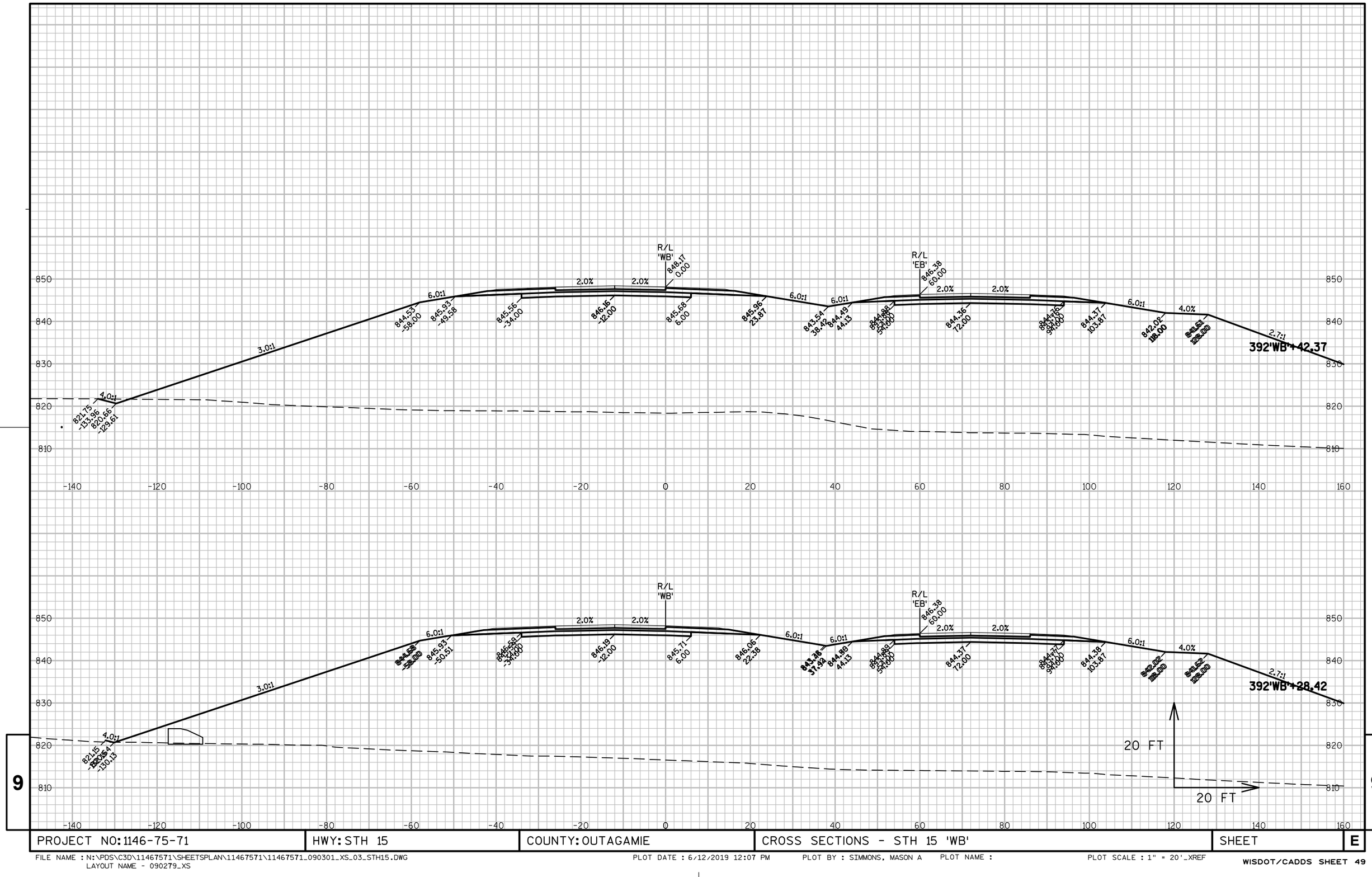
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090277_XS
PLOT DATE : 6/12/2019 12:07 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090278_XS

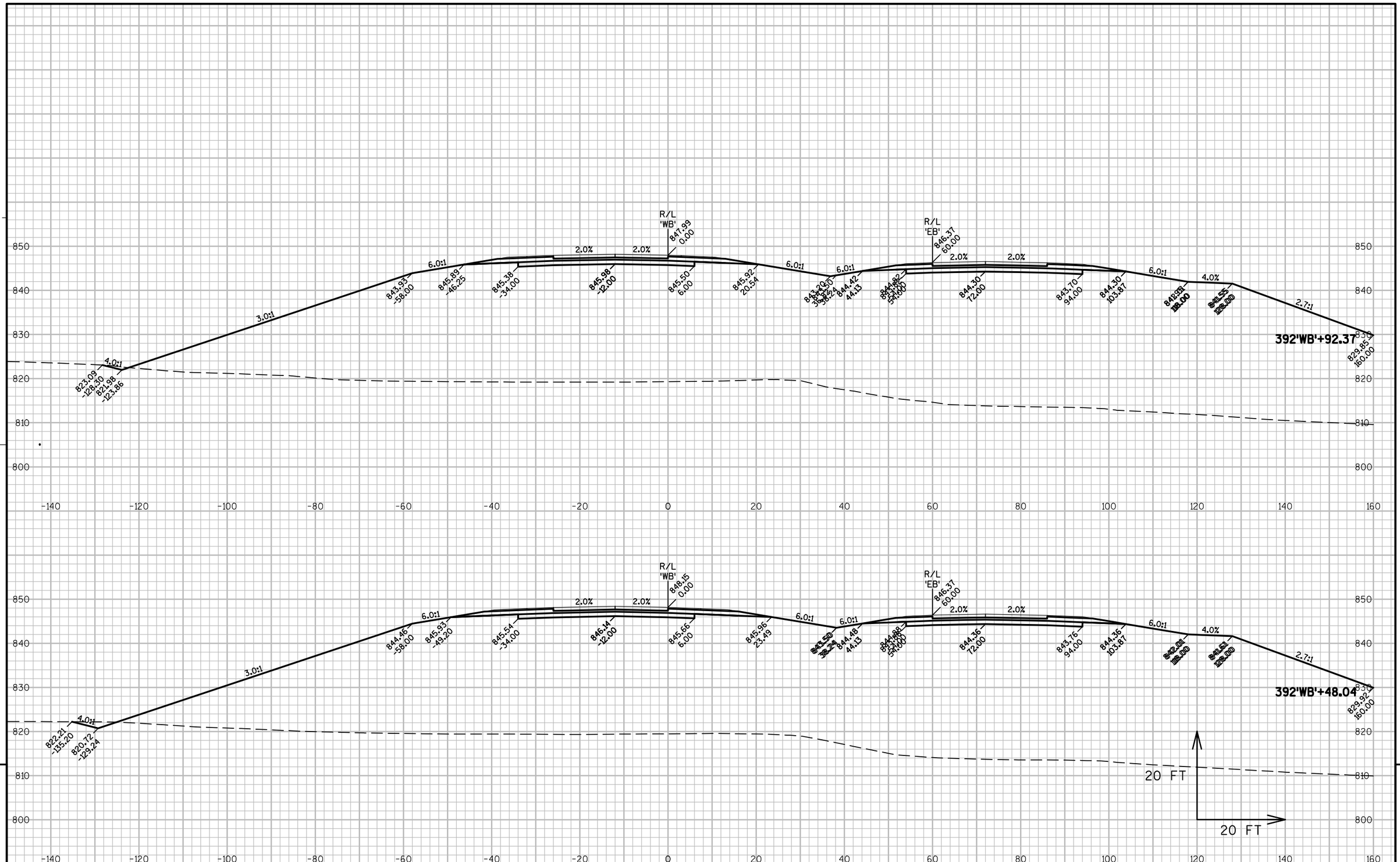
PLOT DATE : 6/12/2019 12:07 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

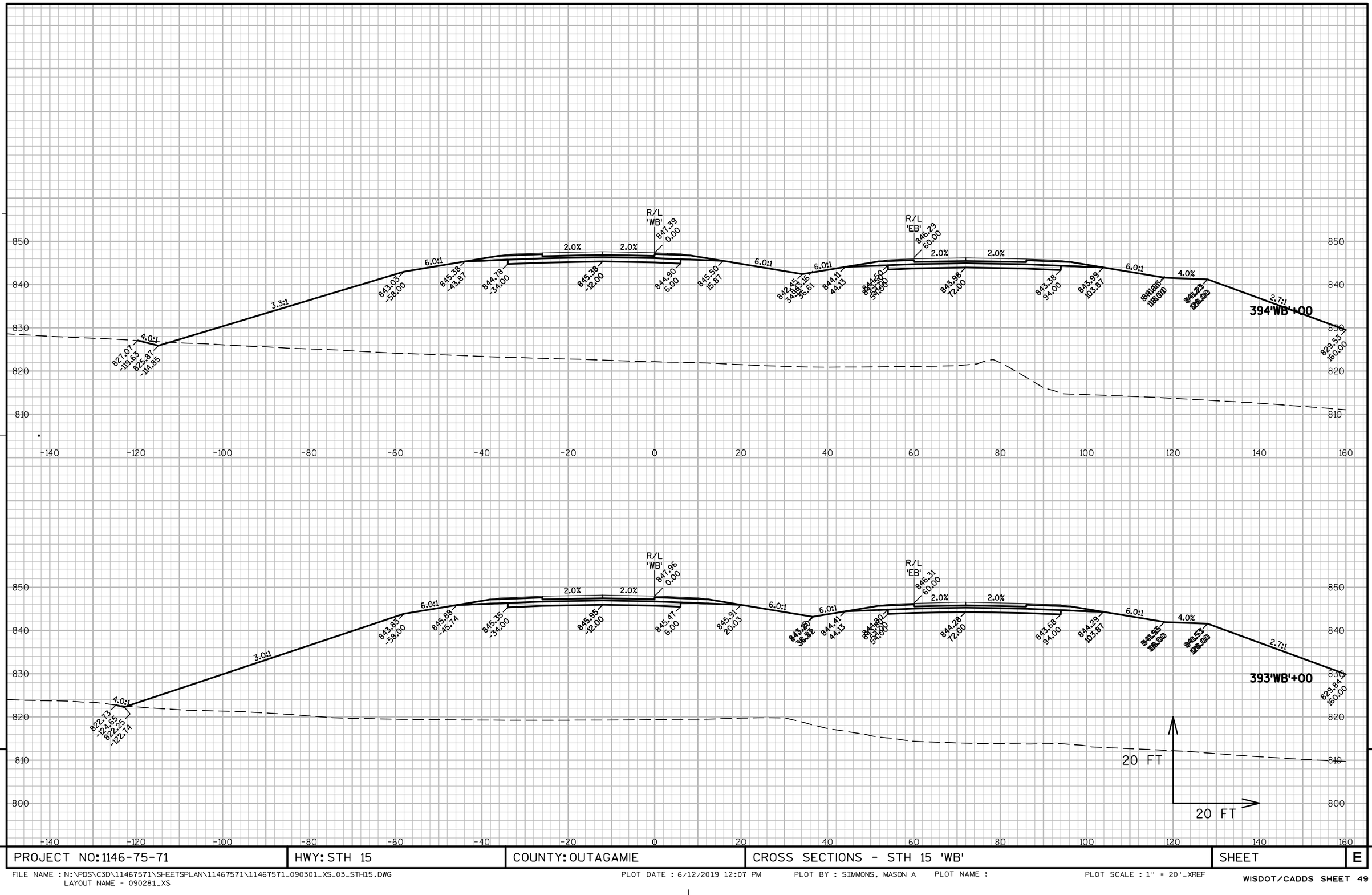
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090279_XS

PLOT DATE : 6/12/2019 12:07 PM 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	E

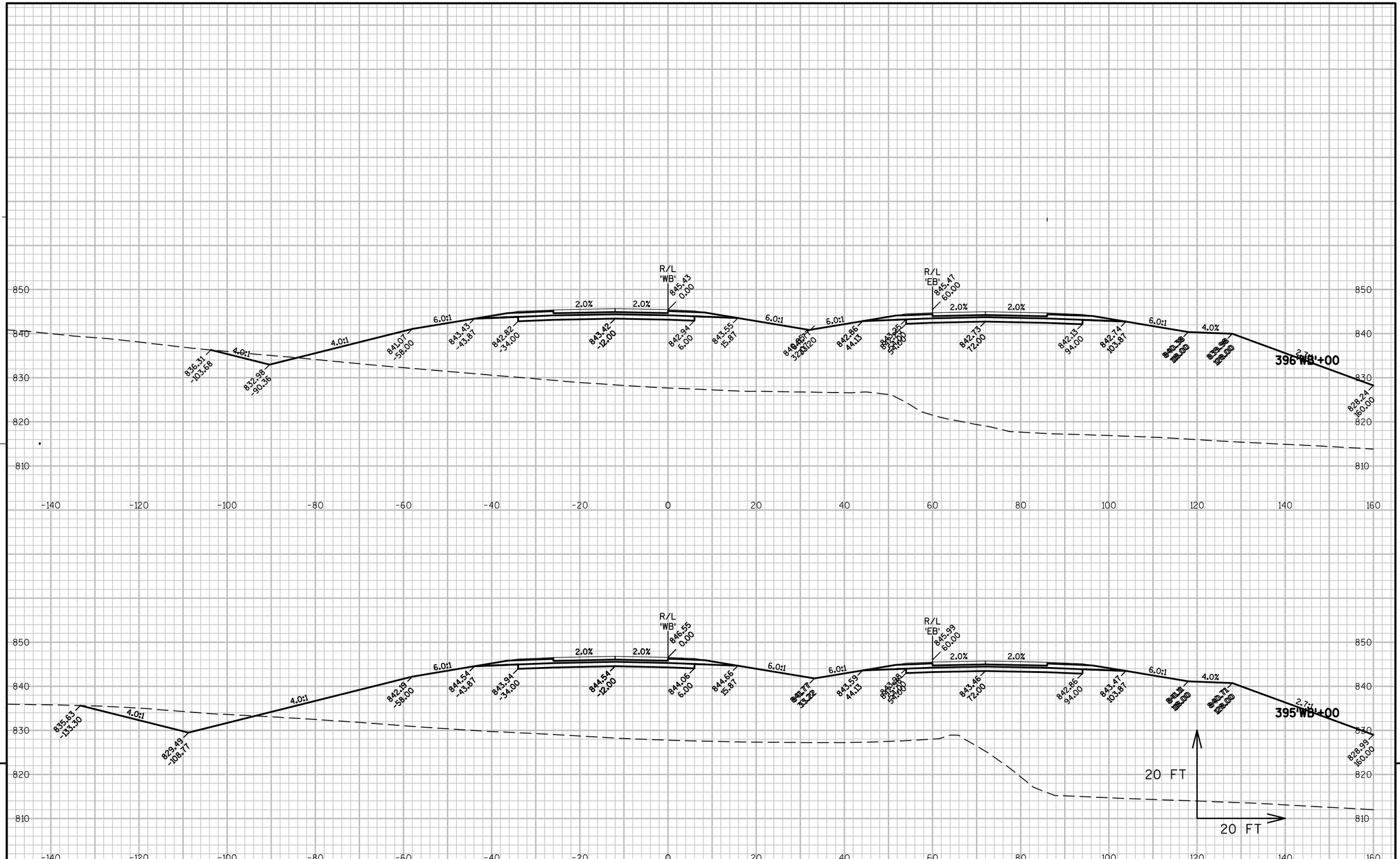
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090280_XS
PLOT DATE : 6/12/2019 12:07 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090281_XS

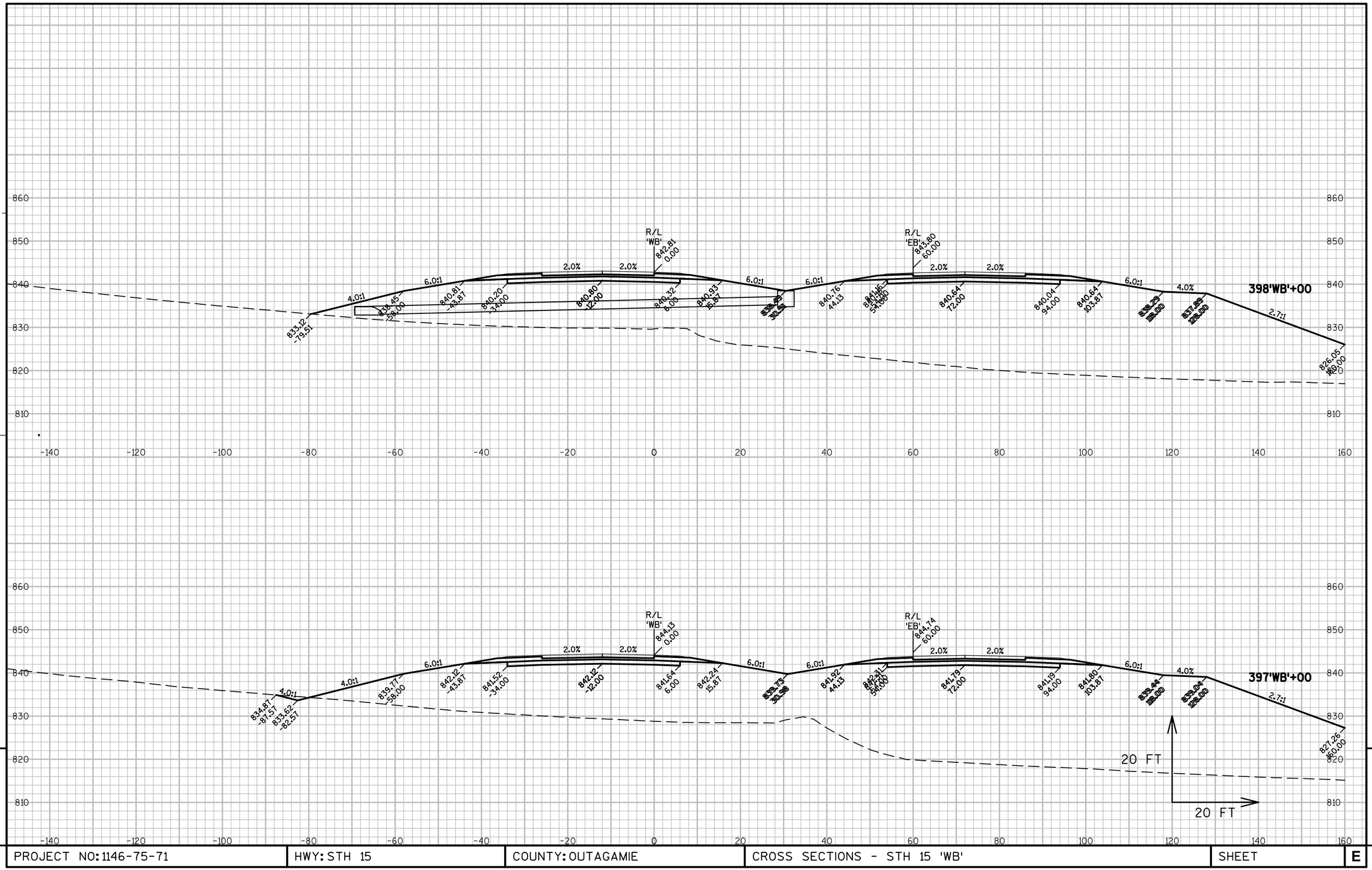
PLOT DATE : 6/12/2019 12:07 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090282_XS

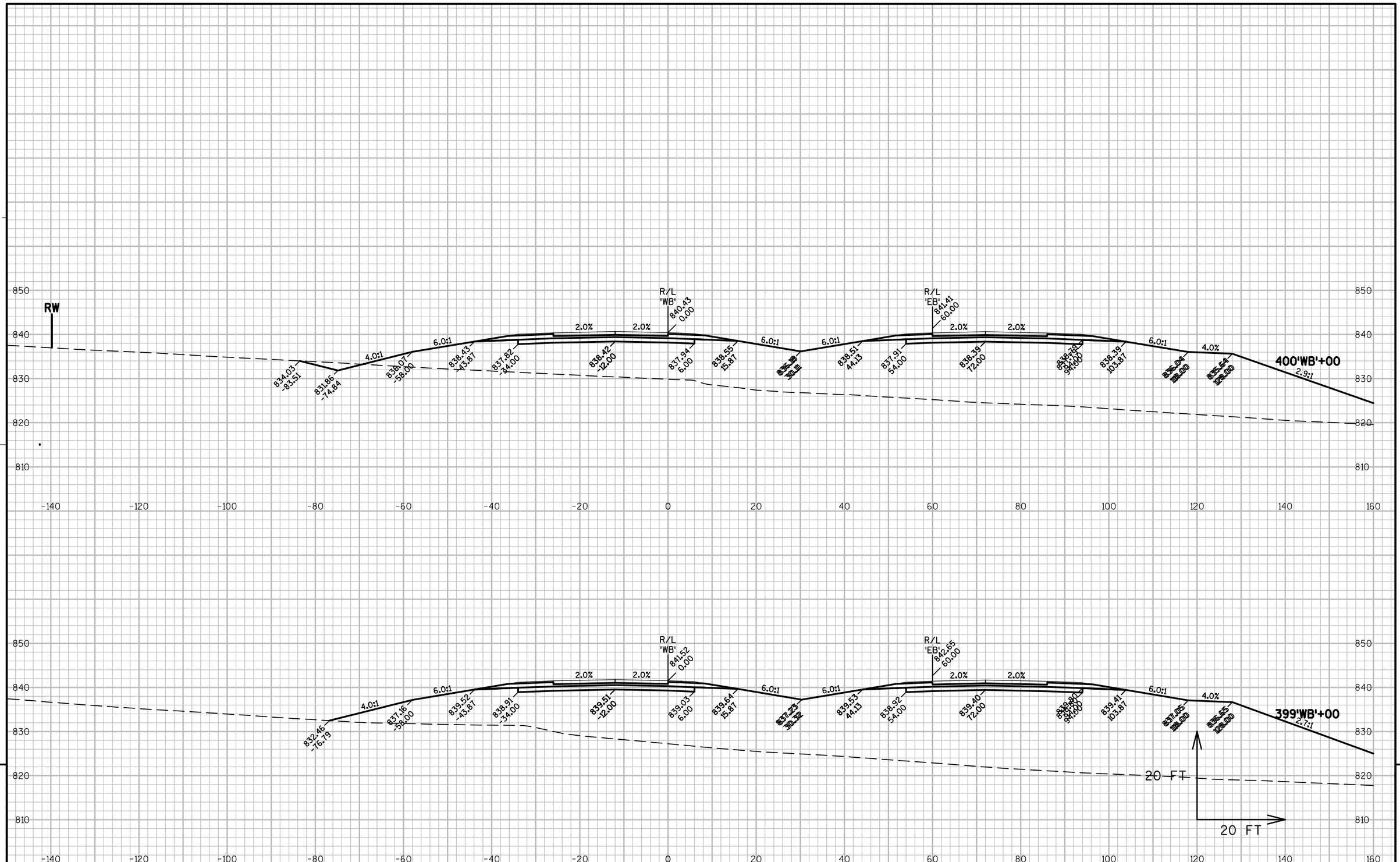
PLOT DATE : 6/12/2019 12:07 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090283_XS

PLOT DATE : 6/12/2019 12:08 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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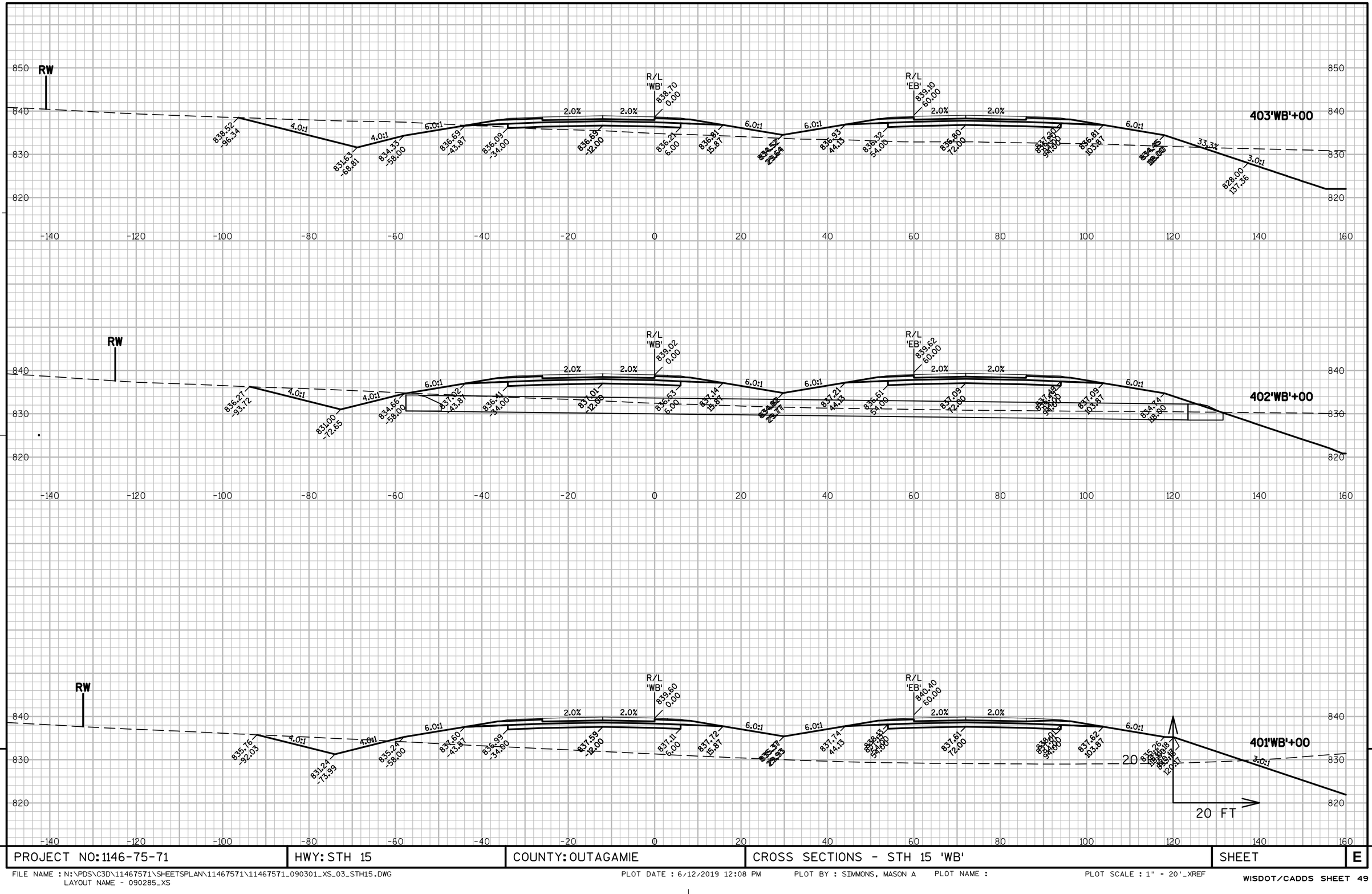
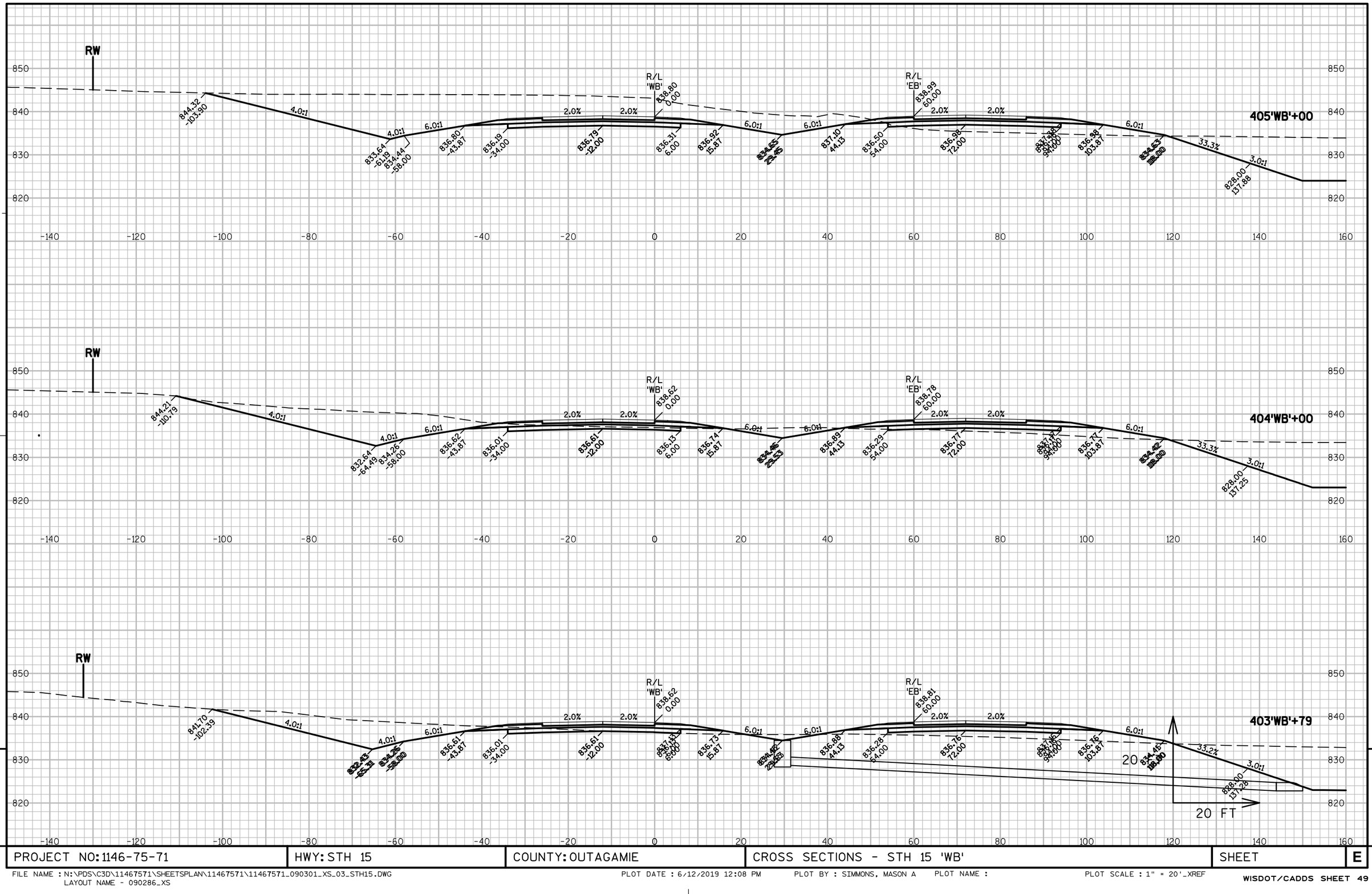
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090284_XS
PLOT DATE : 6/12/2019 12:08 PM 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090285_XS
PLOT DATE : 6/12/2019 12:08 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



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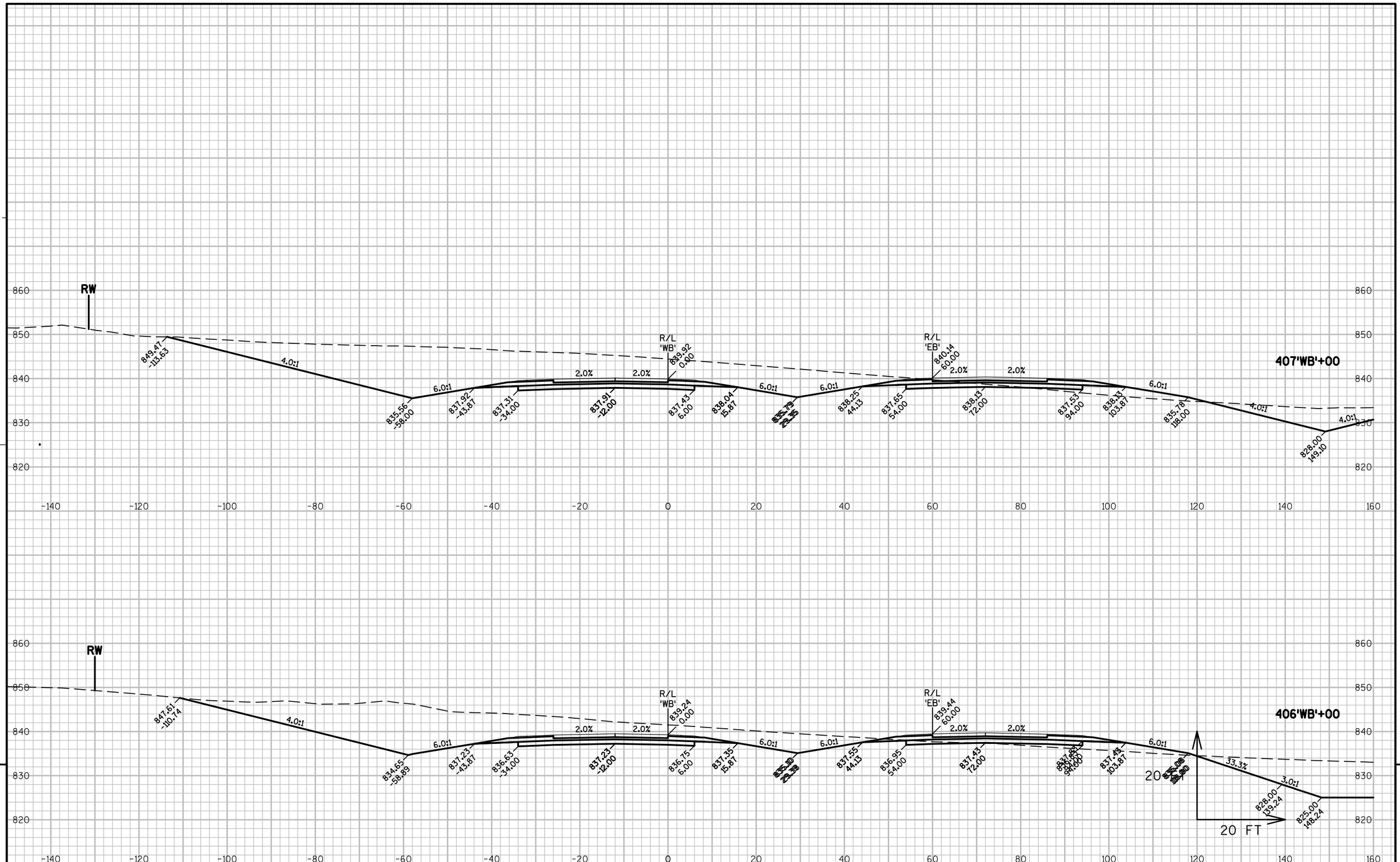
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090286_XS

PLOT DATE : 6/12/2019 12:08 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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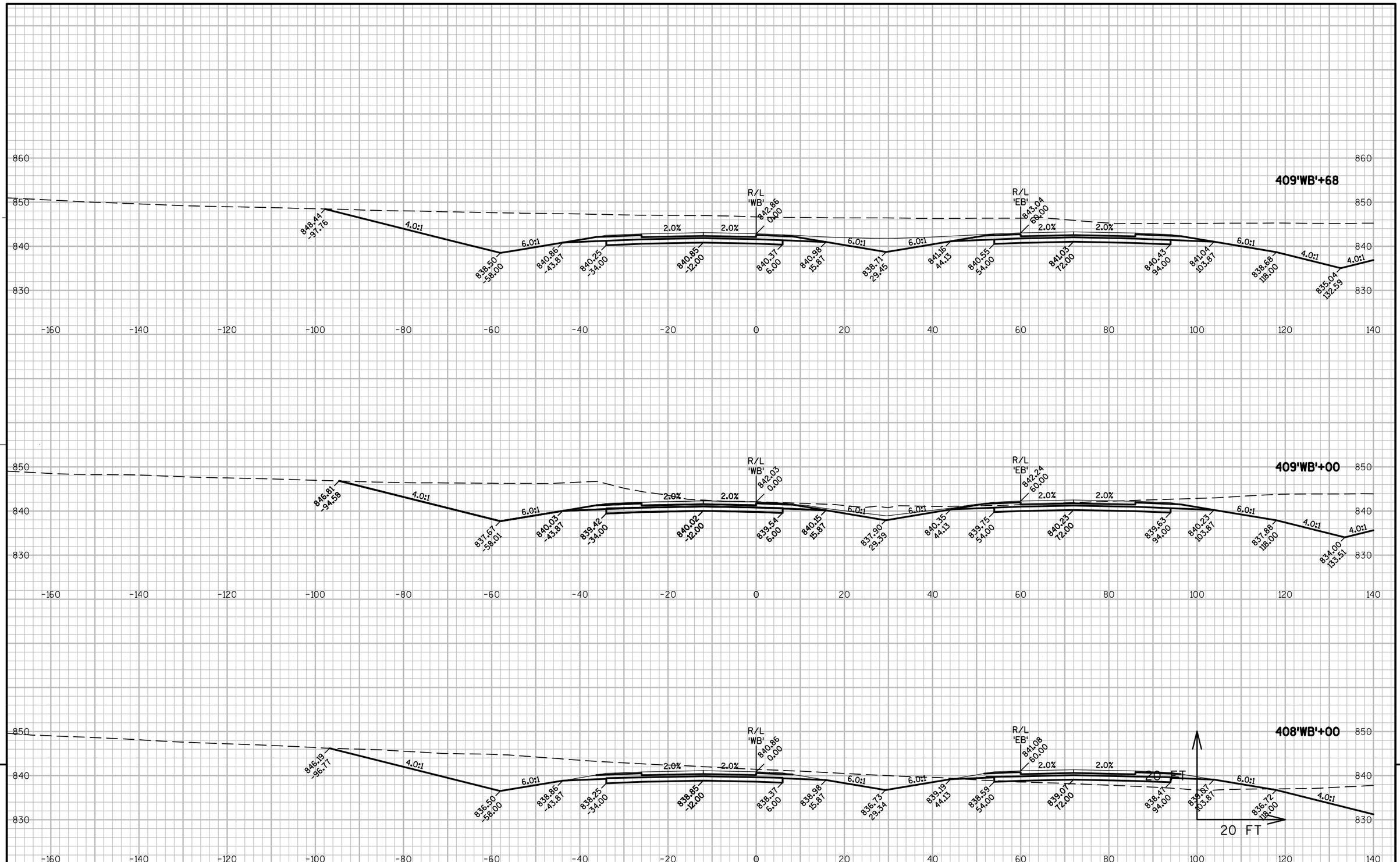
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_03_STH15.DWG
LAYOUT NAME - 090287_XS
PLOT DATE : 6/12/2019 12:08 PM 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090389_XS
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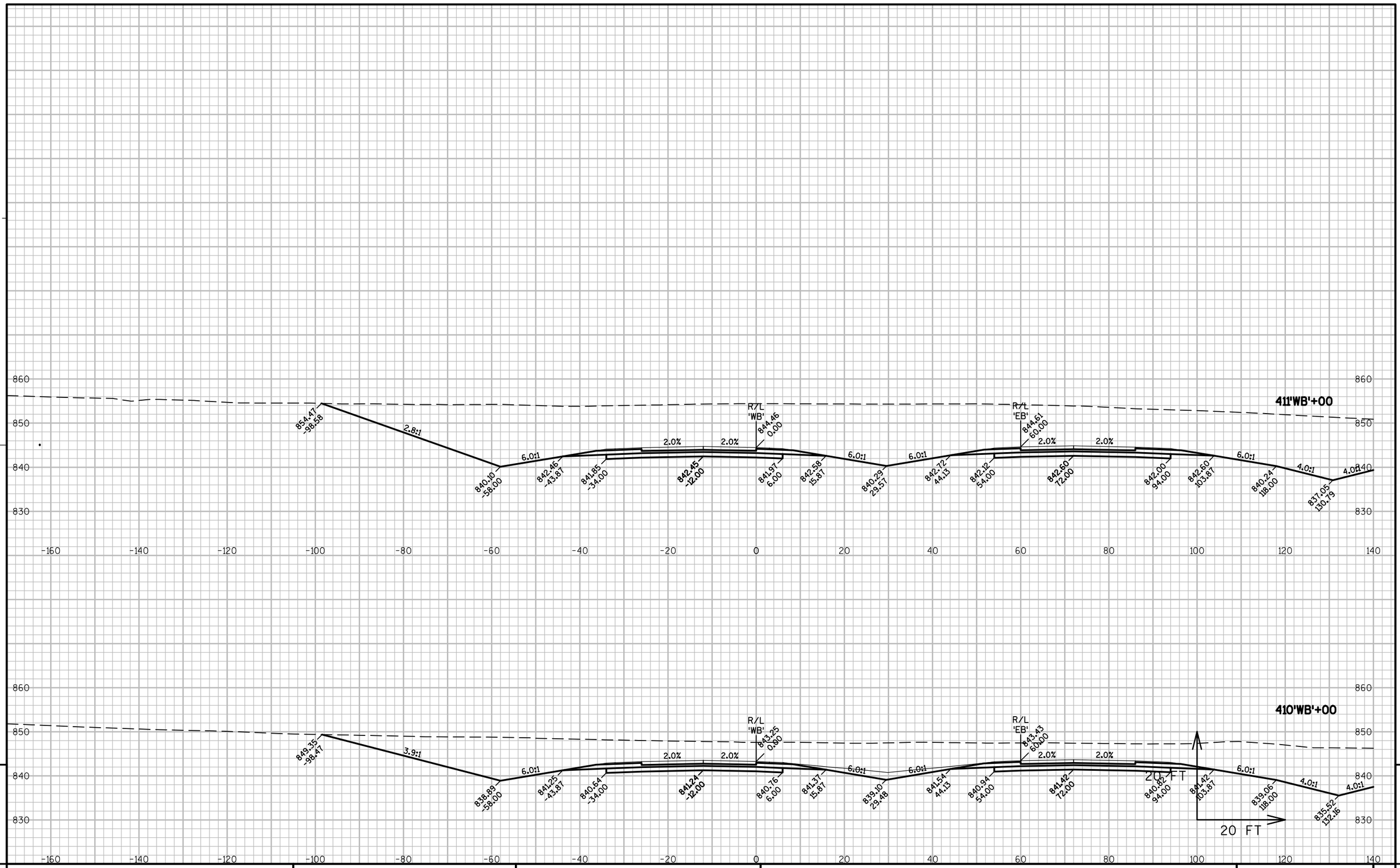
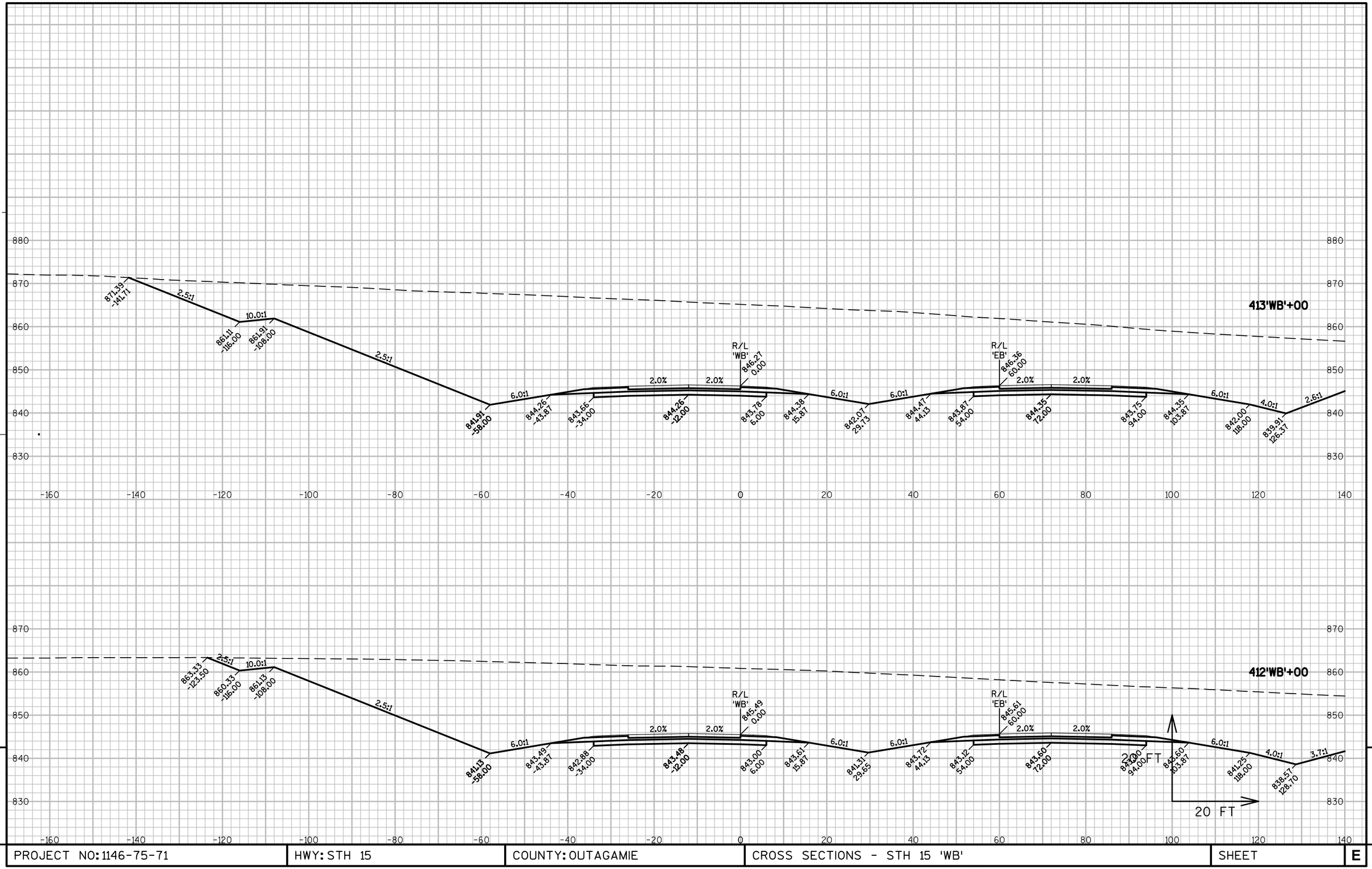


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090390_XS

PLOT DATE : 6/12/2019 12:14 PM 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
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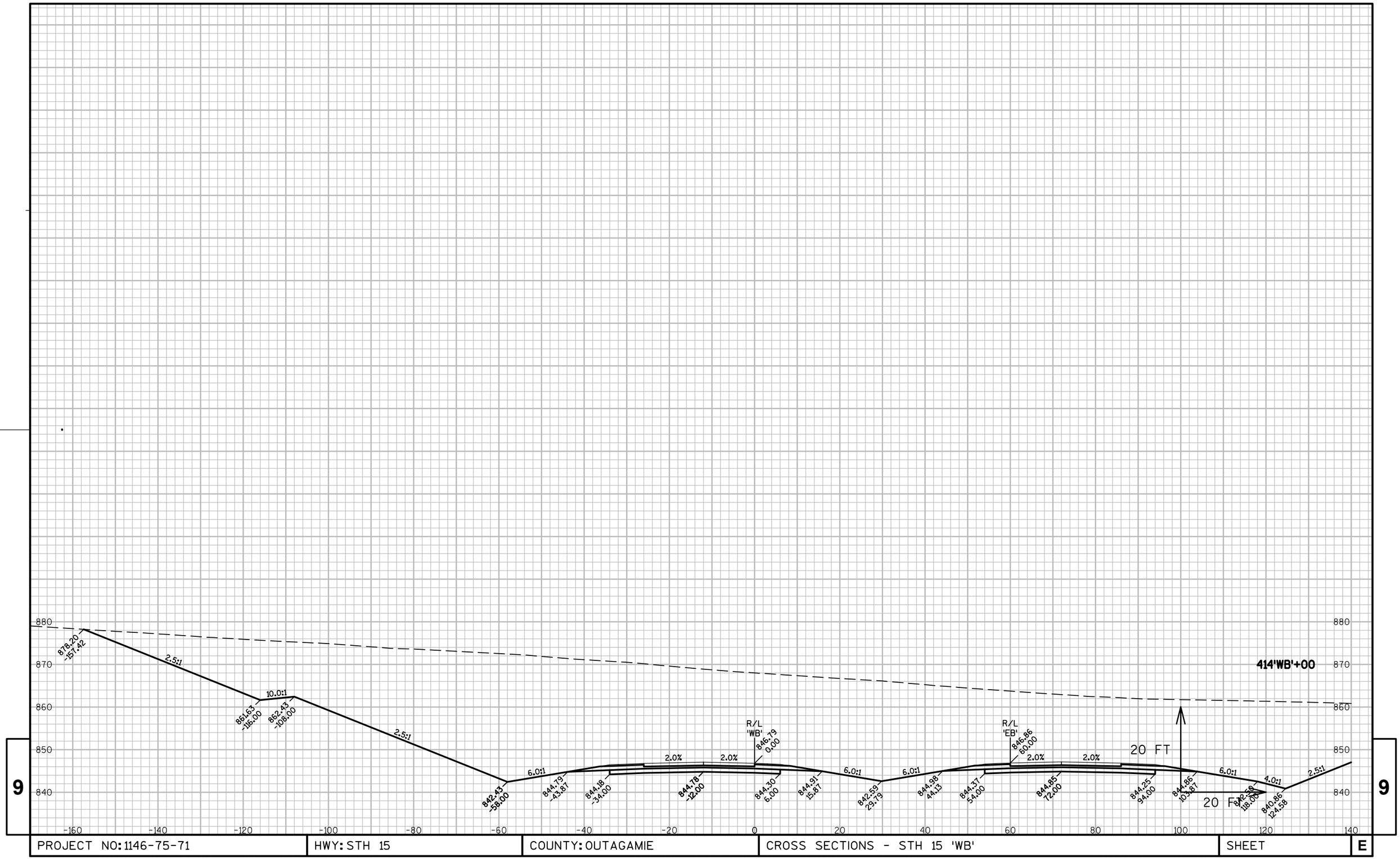
PLOT DATE : 6/12/2019 12:14 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
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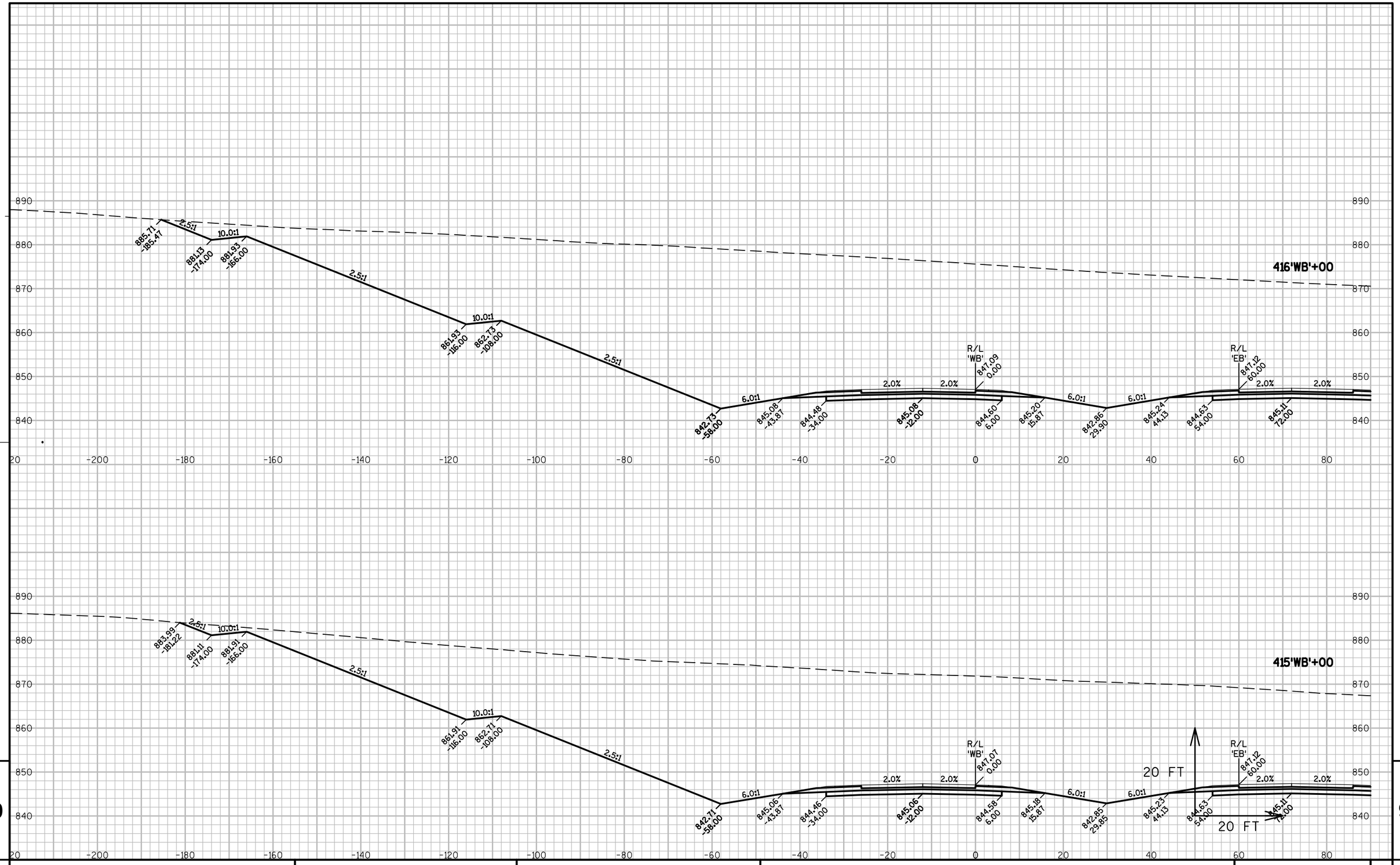
PLOT DATE : 6/12/2019 12:15 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
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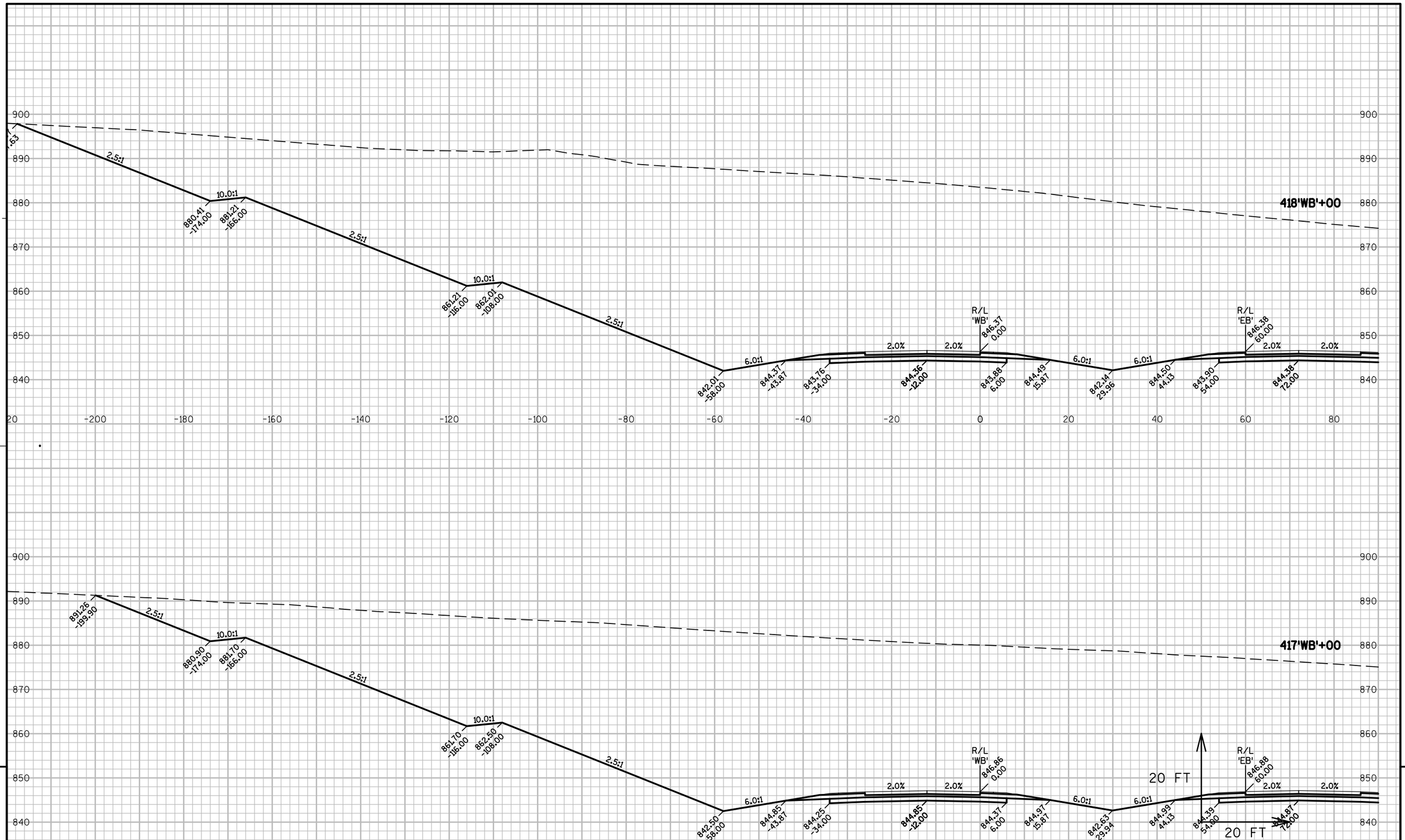
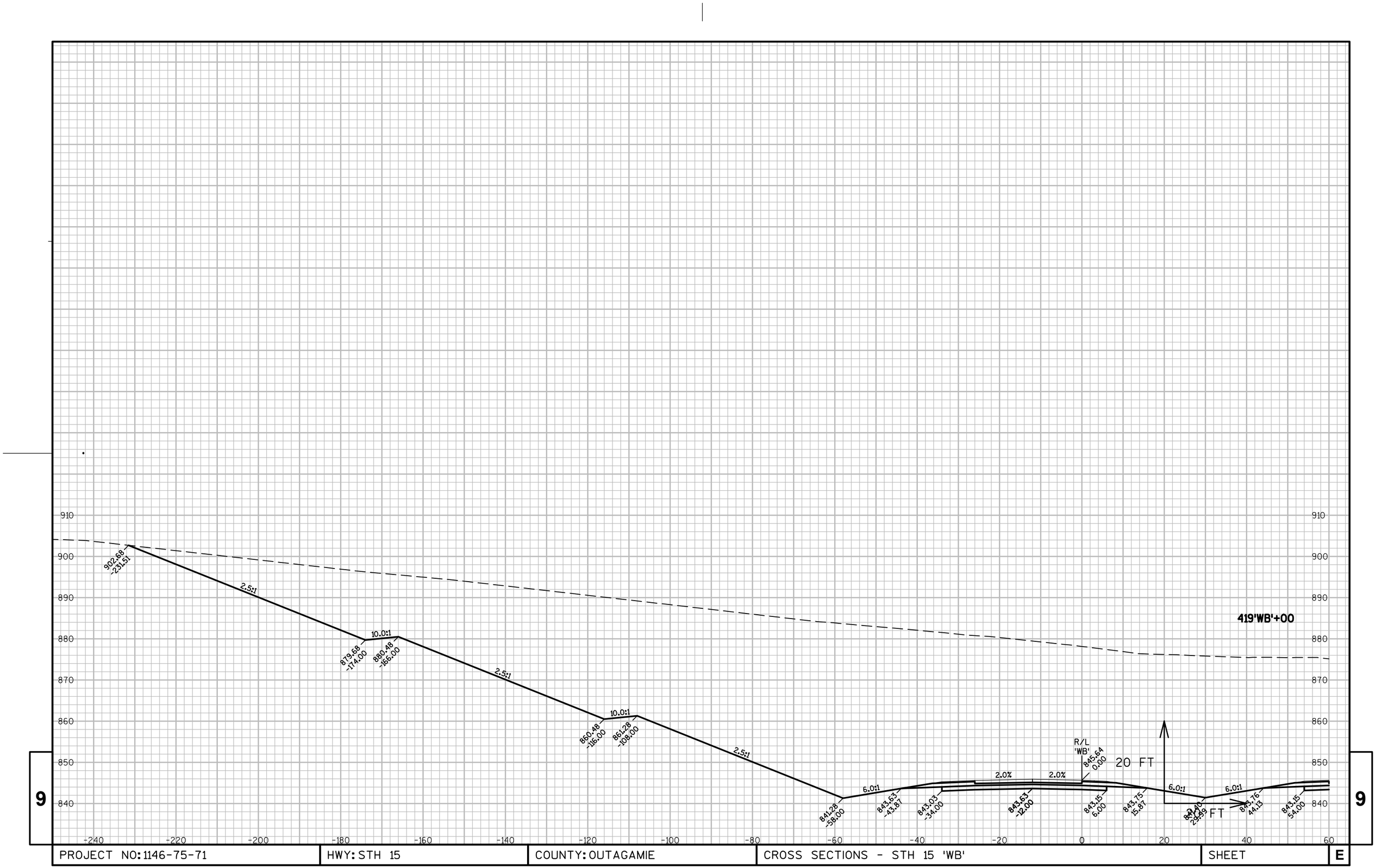
PLOT DATE : 6/12/2019 12:15 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090394_XS

PLOT DATE : 6/12/2019 12:16 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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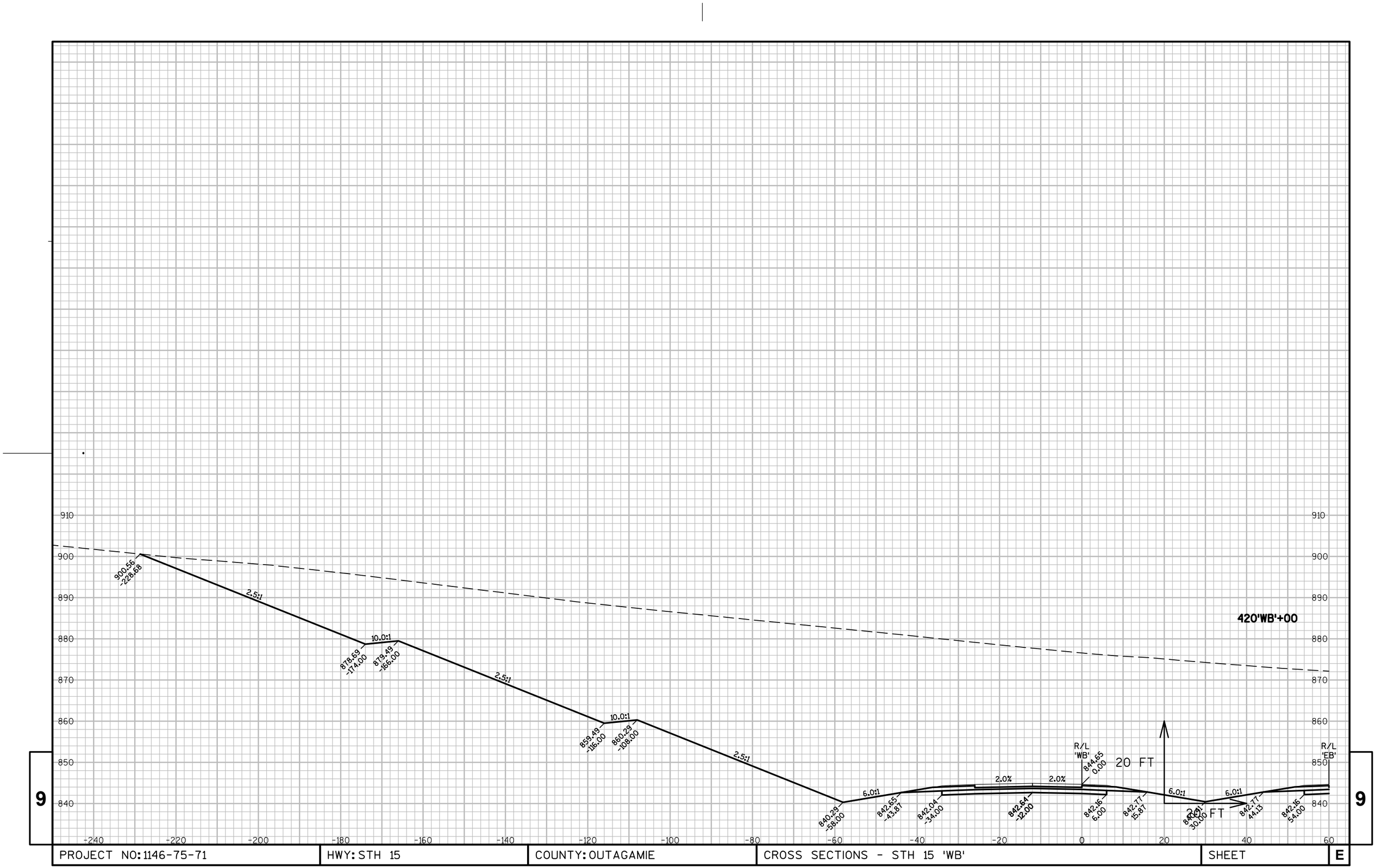
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090395_XS

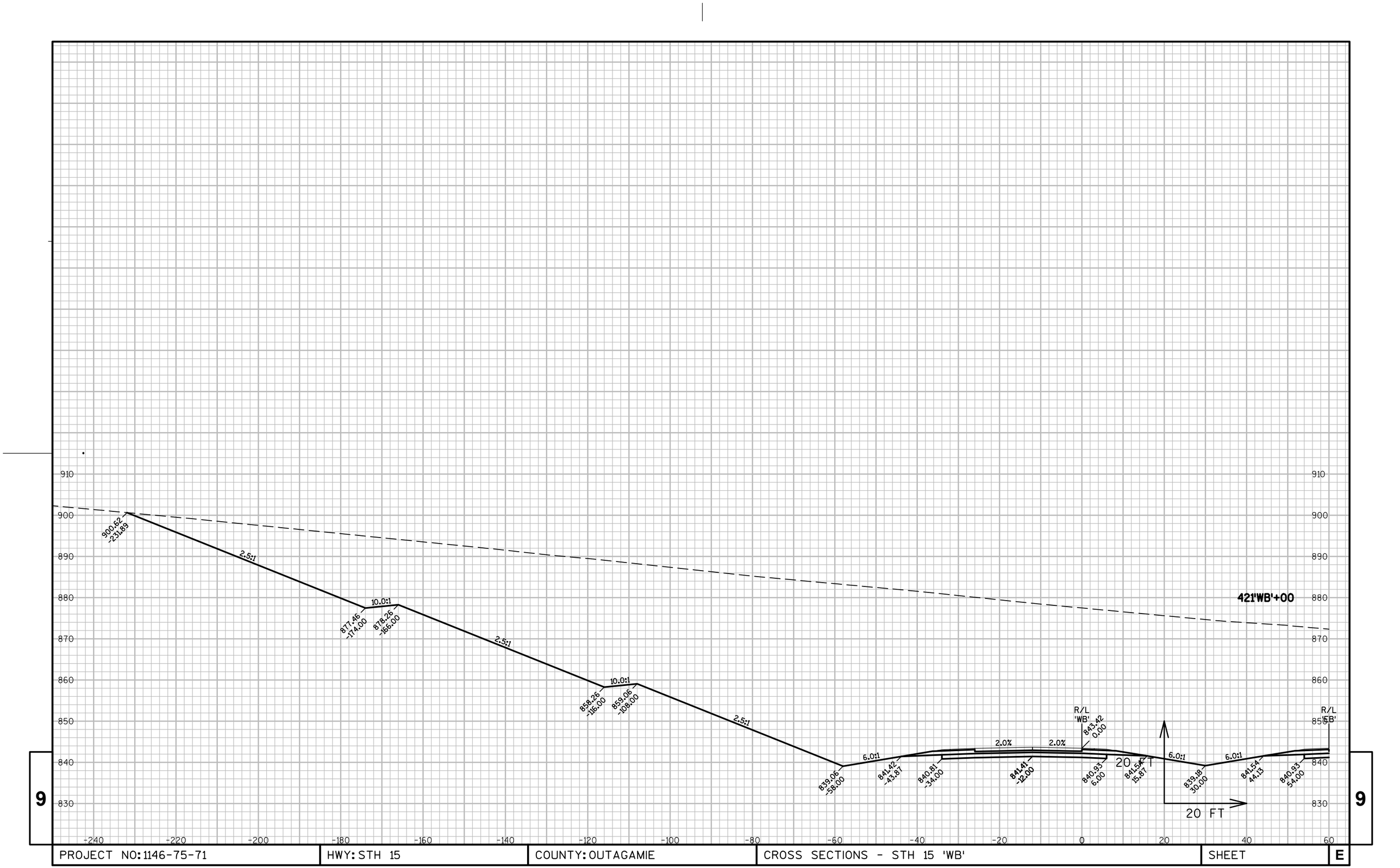
PLOT DATE : 6/12/2019 12:16 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090396_XS

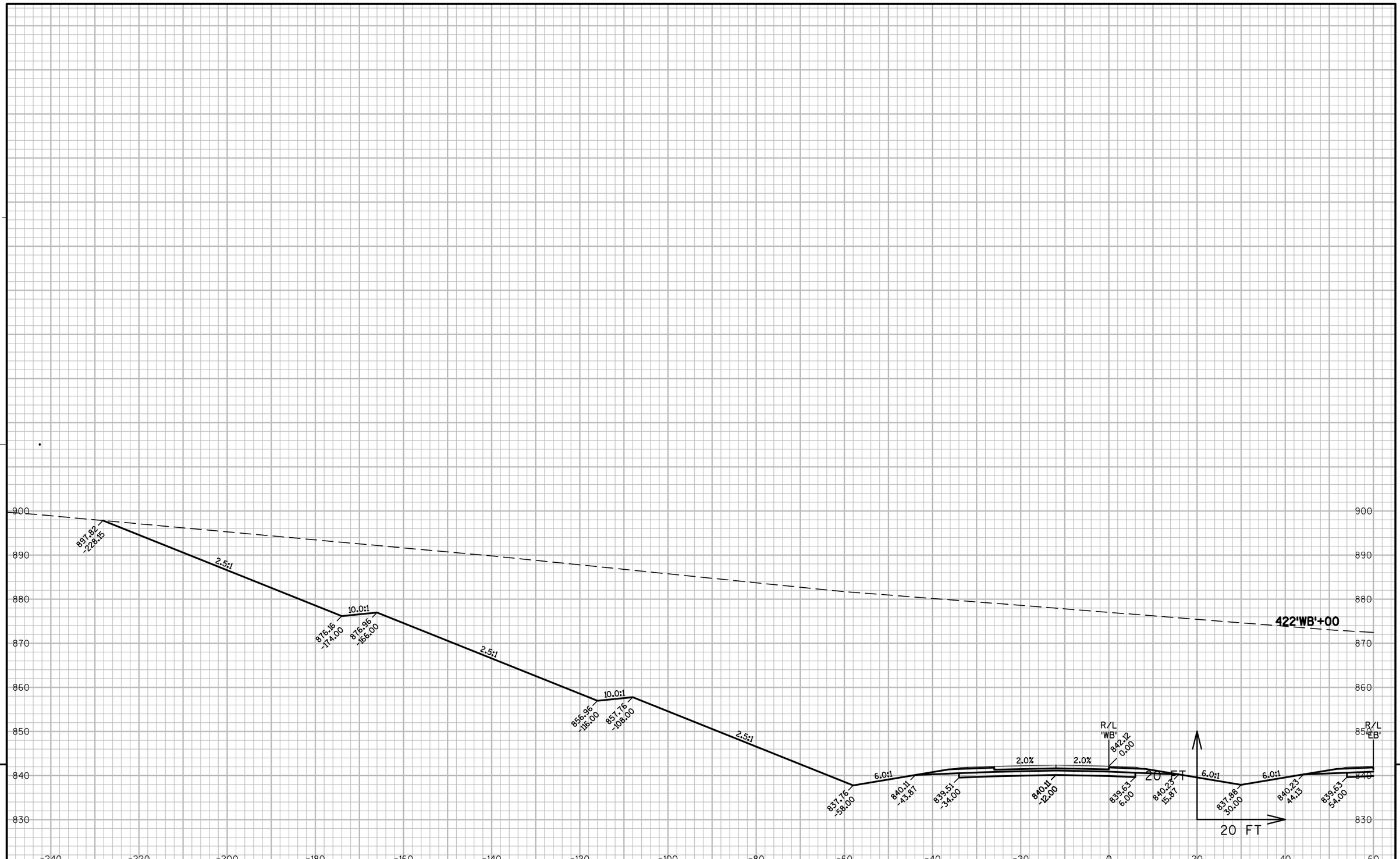
PLOT DATE : 6/12/2019 12:16 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090397_XS

PLOT DATE : 6/12/2019 12:17 PM 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
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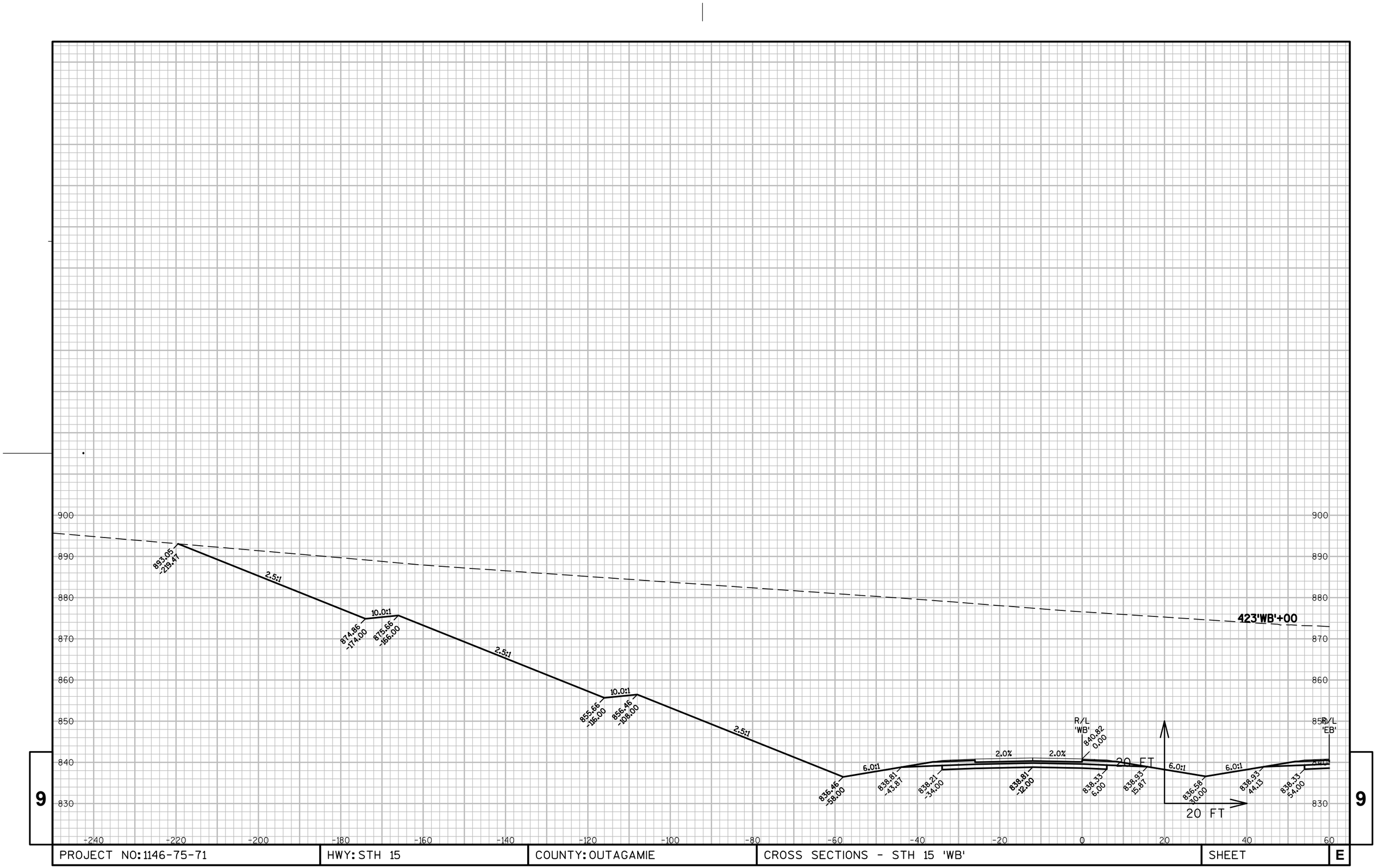
PLOT DATE : 6/12/2019 12:17 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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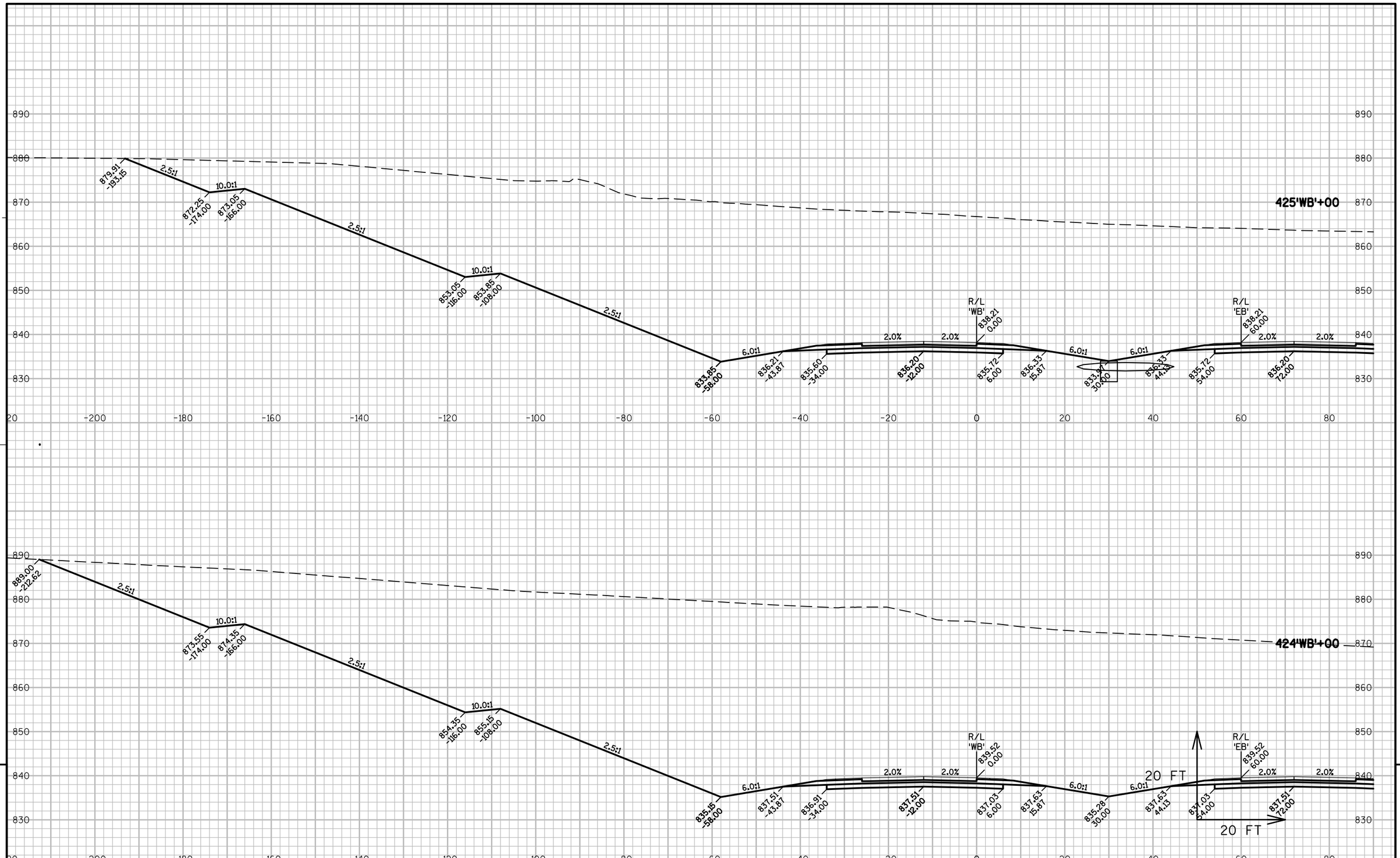
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 090399_XS

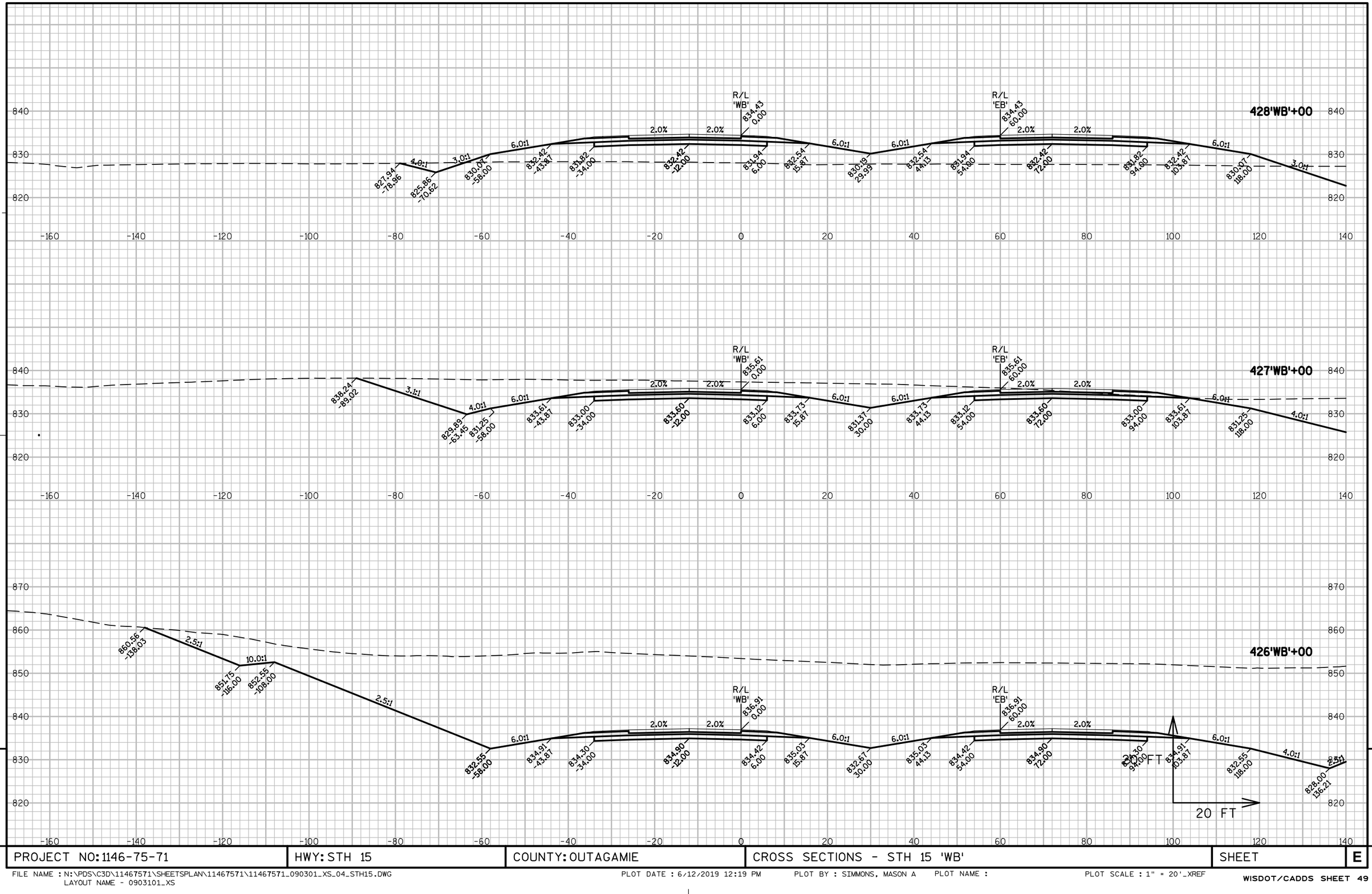
PLOT DATE : 6/12/2019 12:18 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903100_XS

PLOT DATE : 6/12/2019 12:18 PM 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	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
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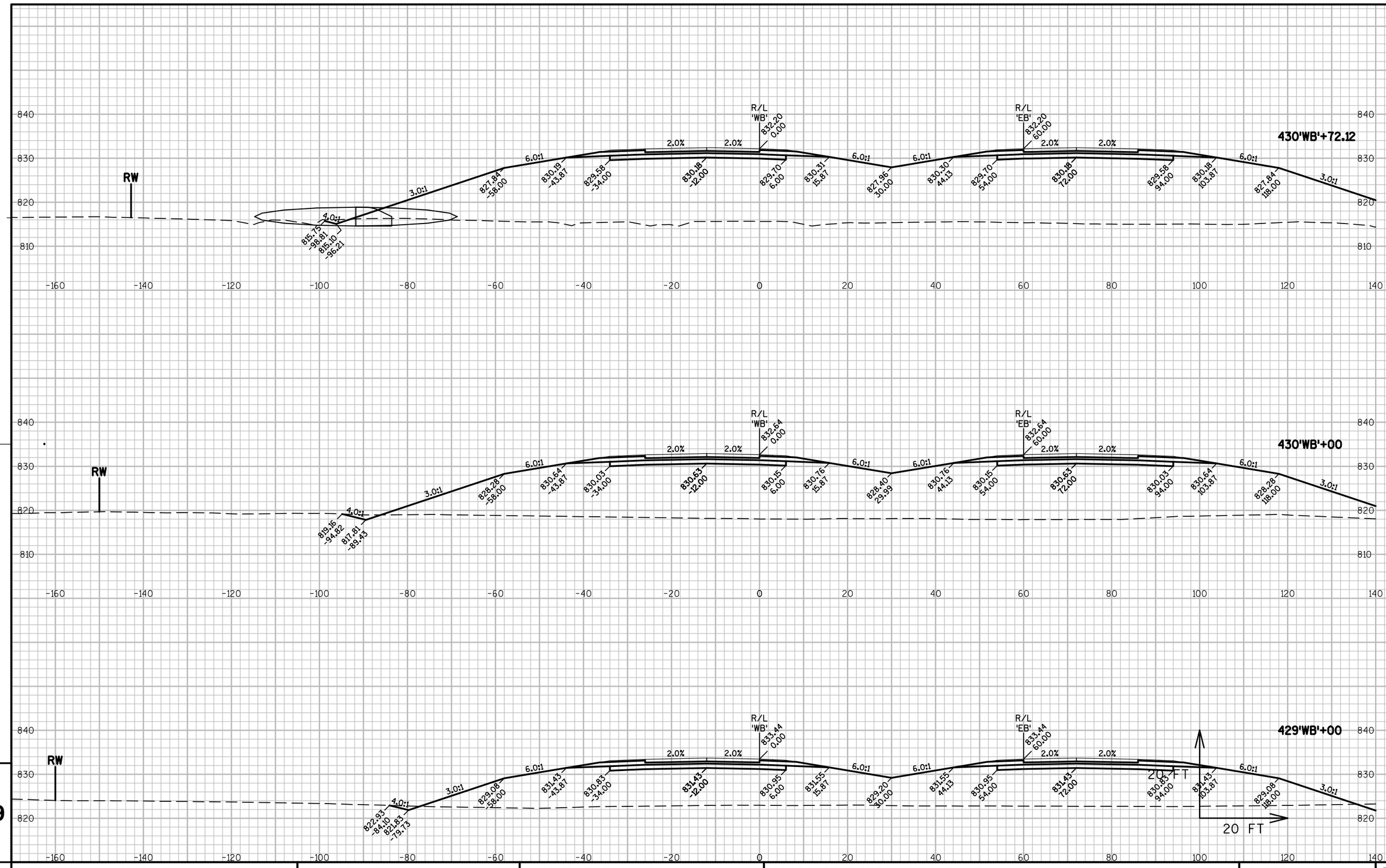
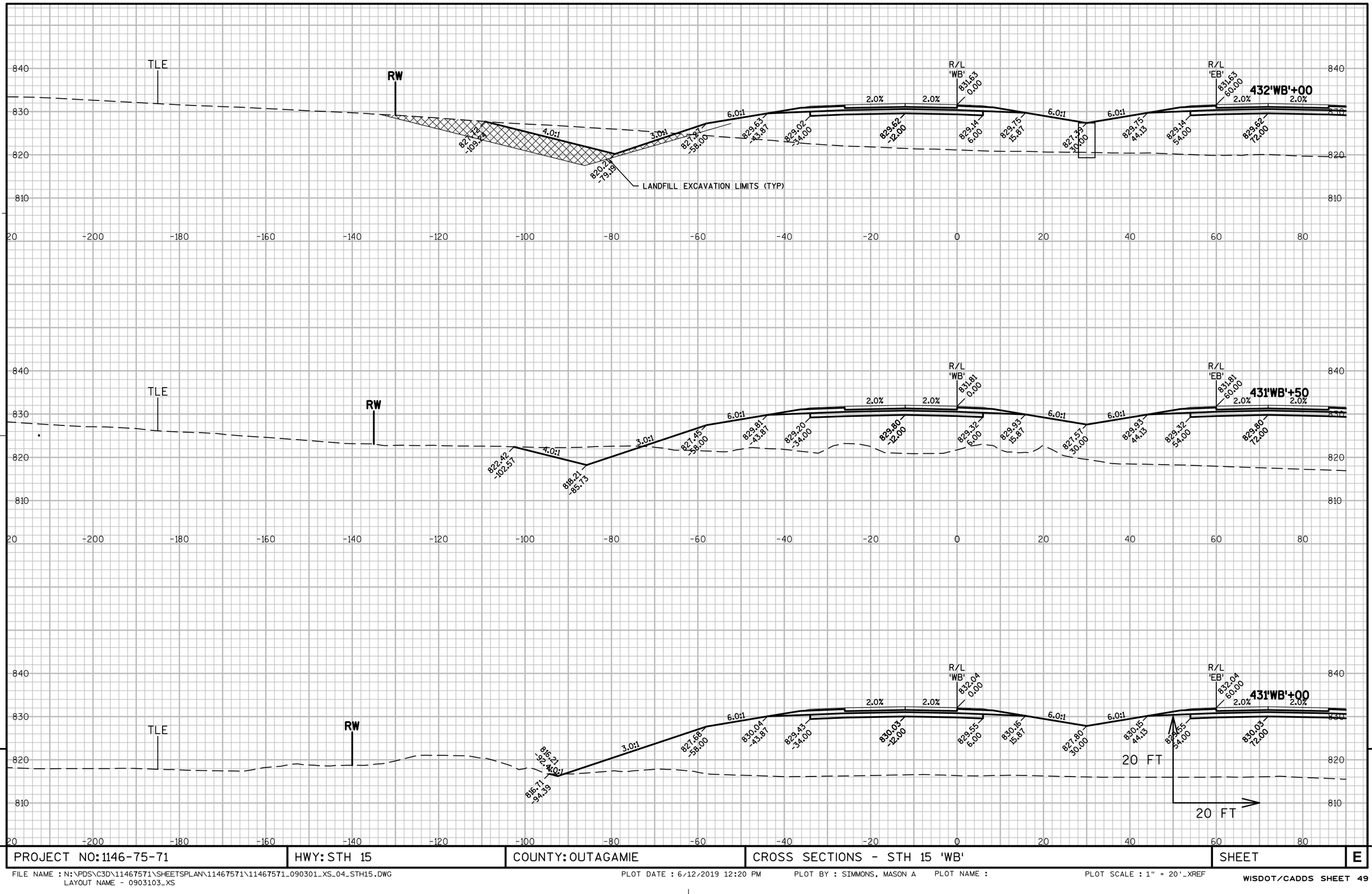
PLOT DATE : 6/12/2019 12:19 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903102_XS
PLOT DATE : 6/12/2019 12:19 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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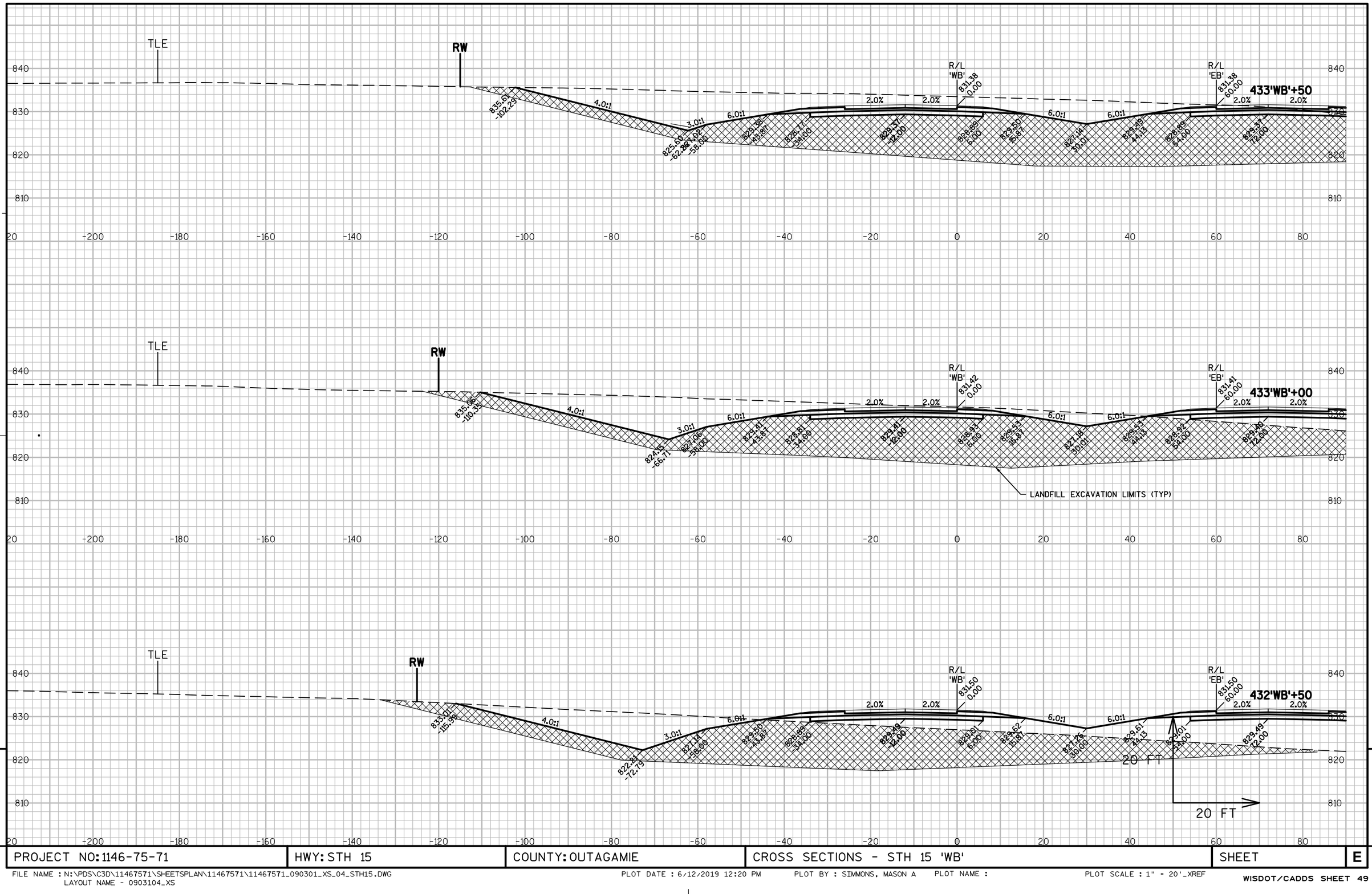
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903103_XS

PLOT DATE : 6/12/2019 12:20 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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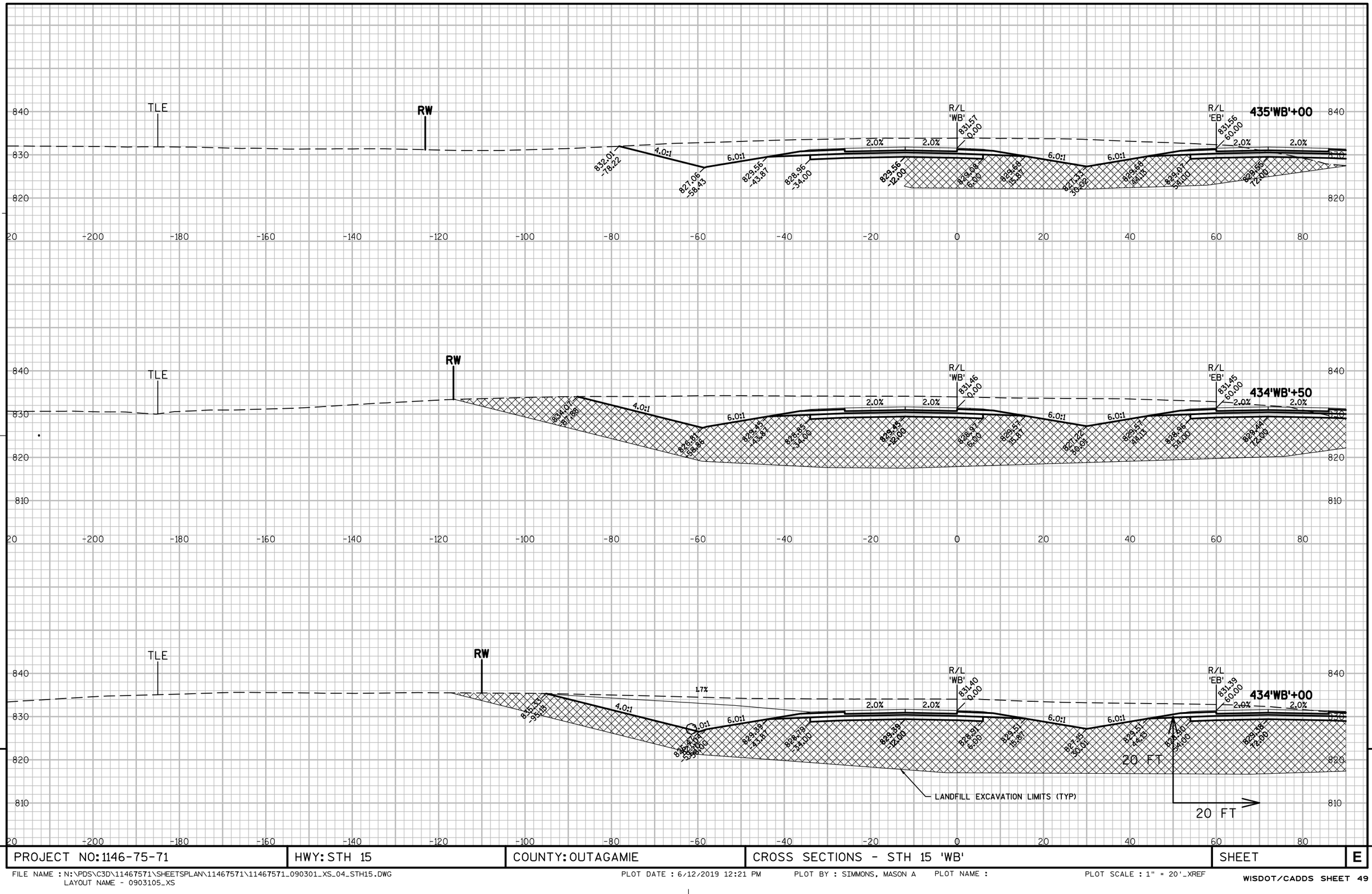
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

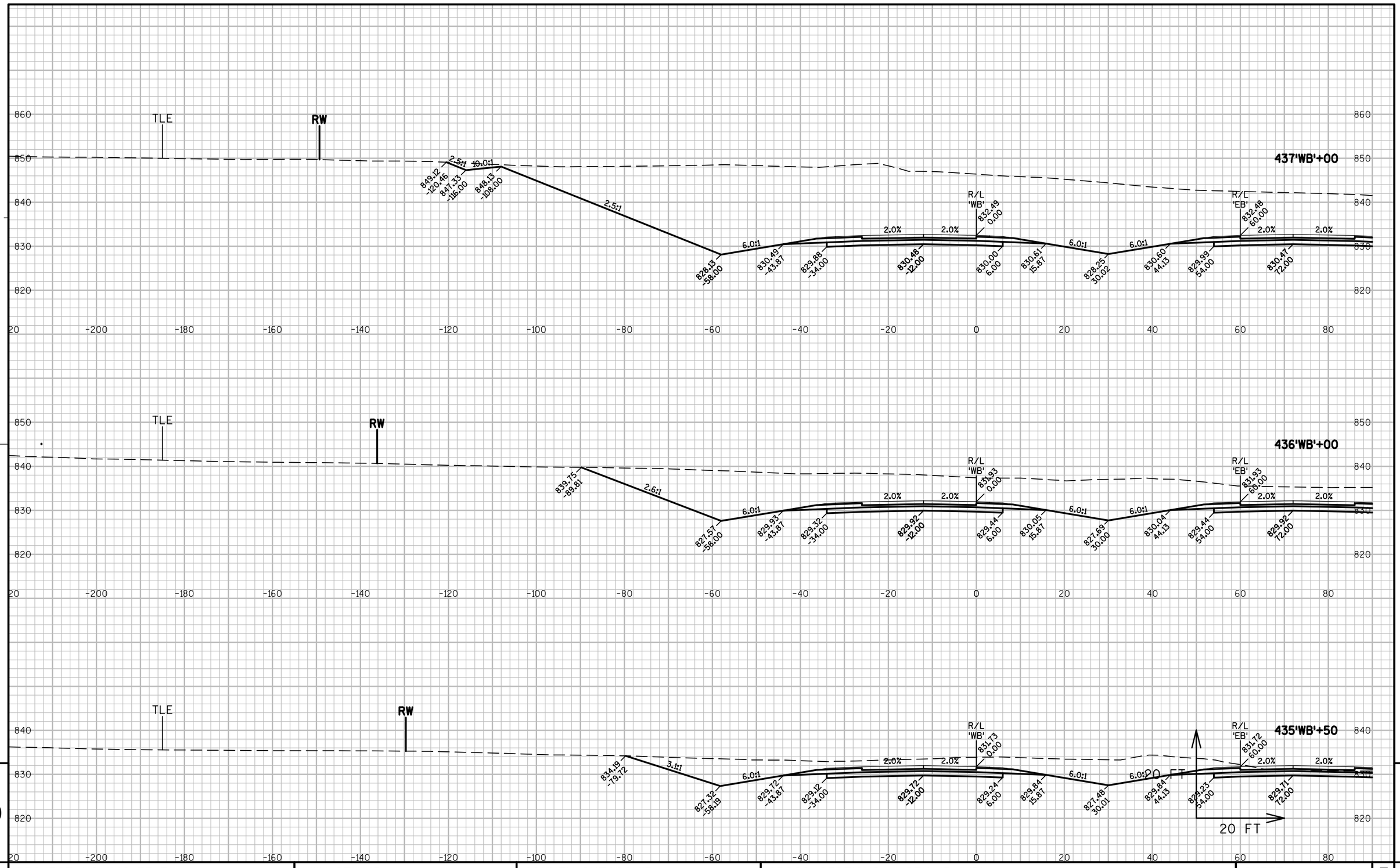
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903104_XS
PLOT DATE : 6/12/2019 12:20 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903105_XS

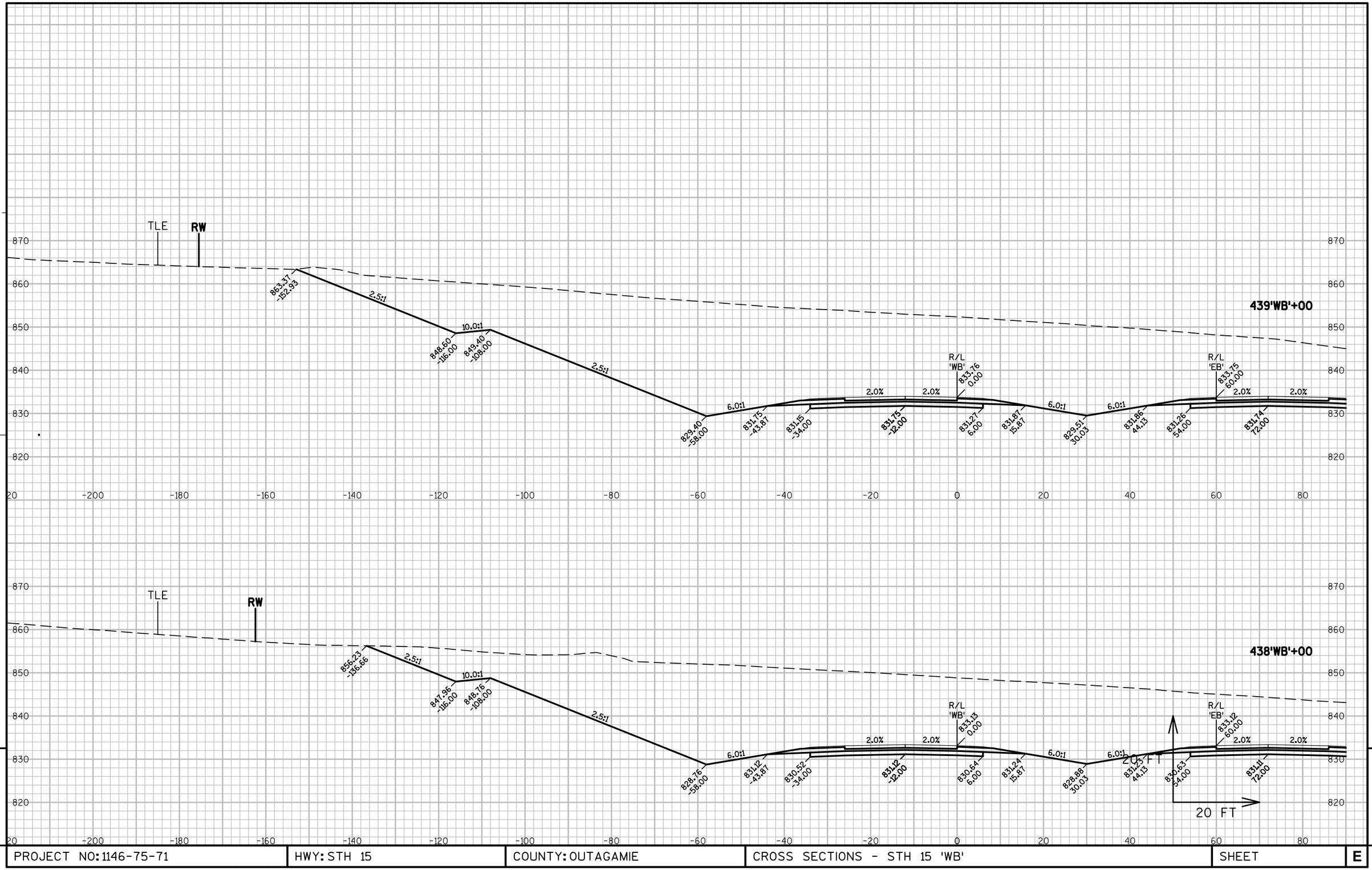
PLOT DATE : 6/12/2019 12:21 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903106_XS

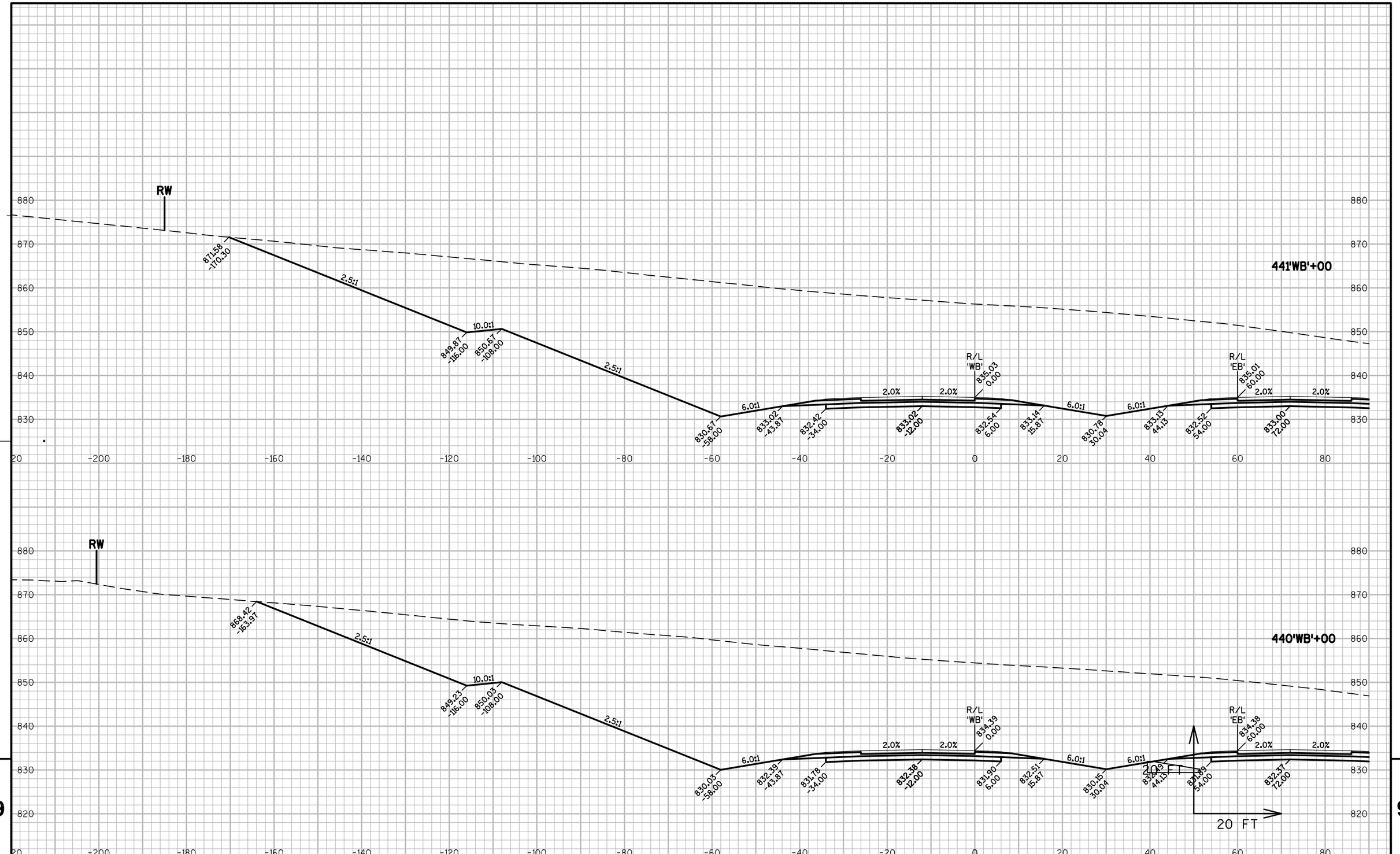
PLOT DATE : 6/12/2019 12:21 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903107_XS

PLOT DATE : 6/12/2019 12:22 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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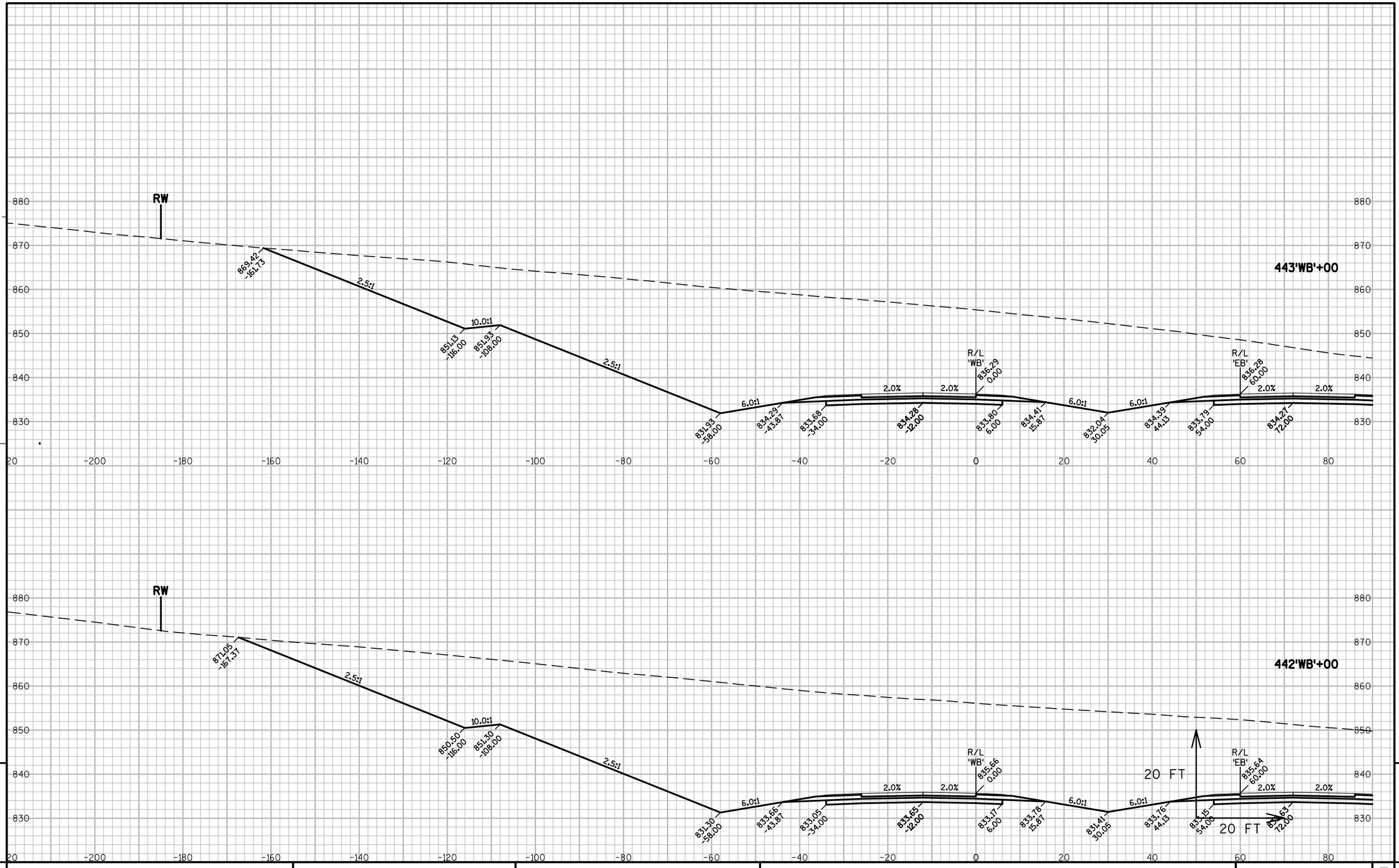
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903108_XS

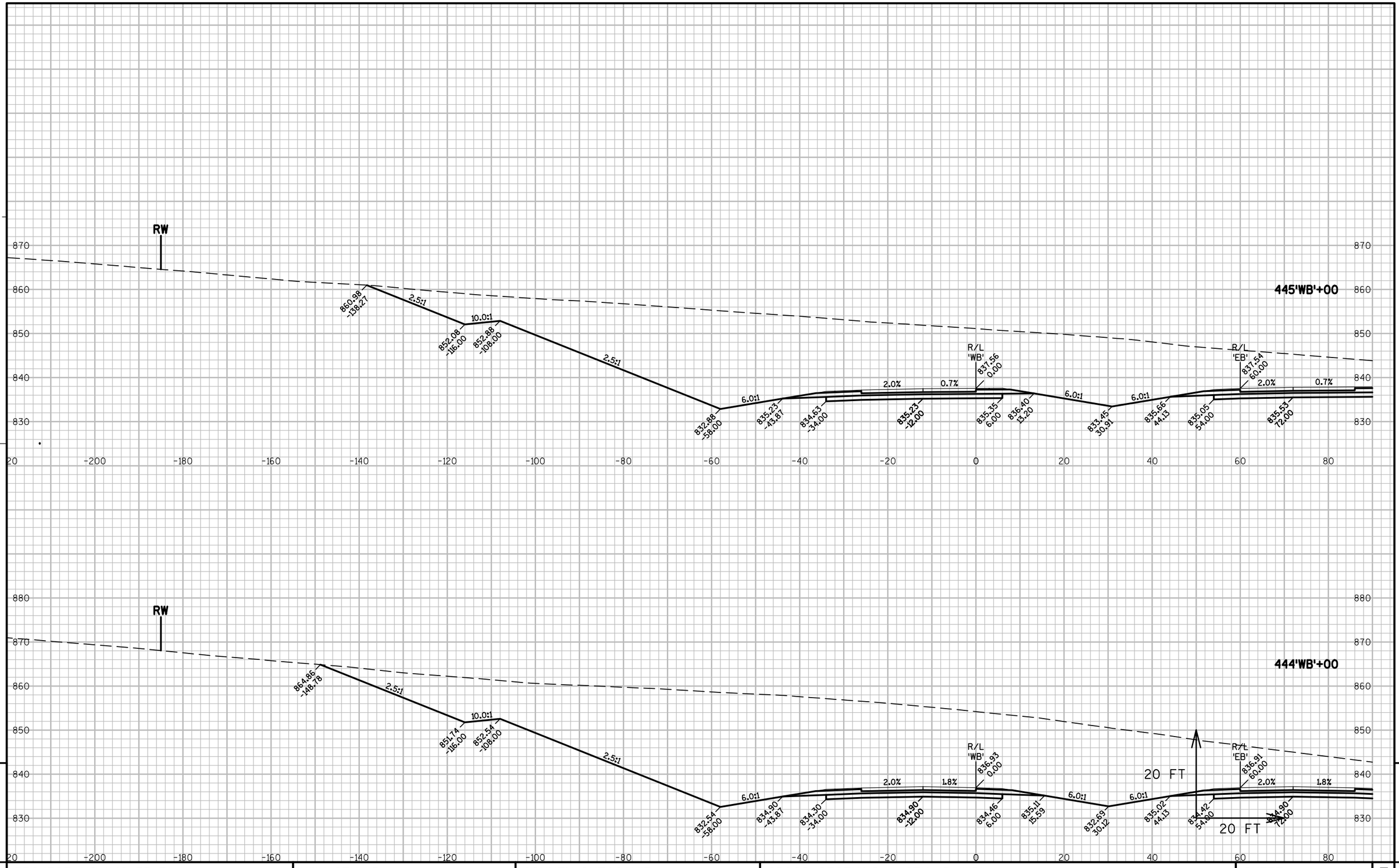
PLOT DATE : 6/12/2019 12:22 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903109_XS

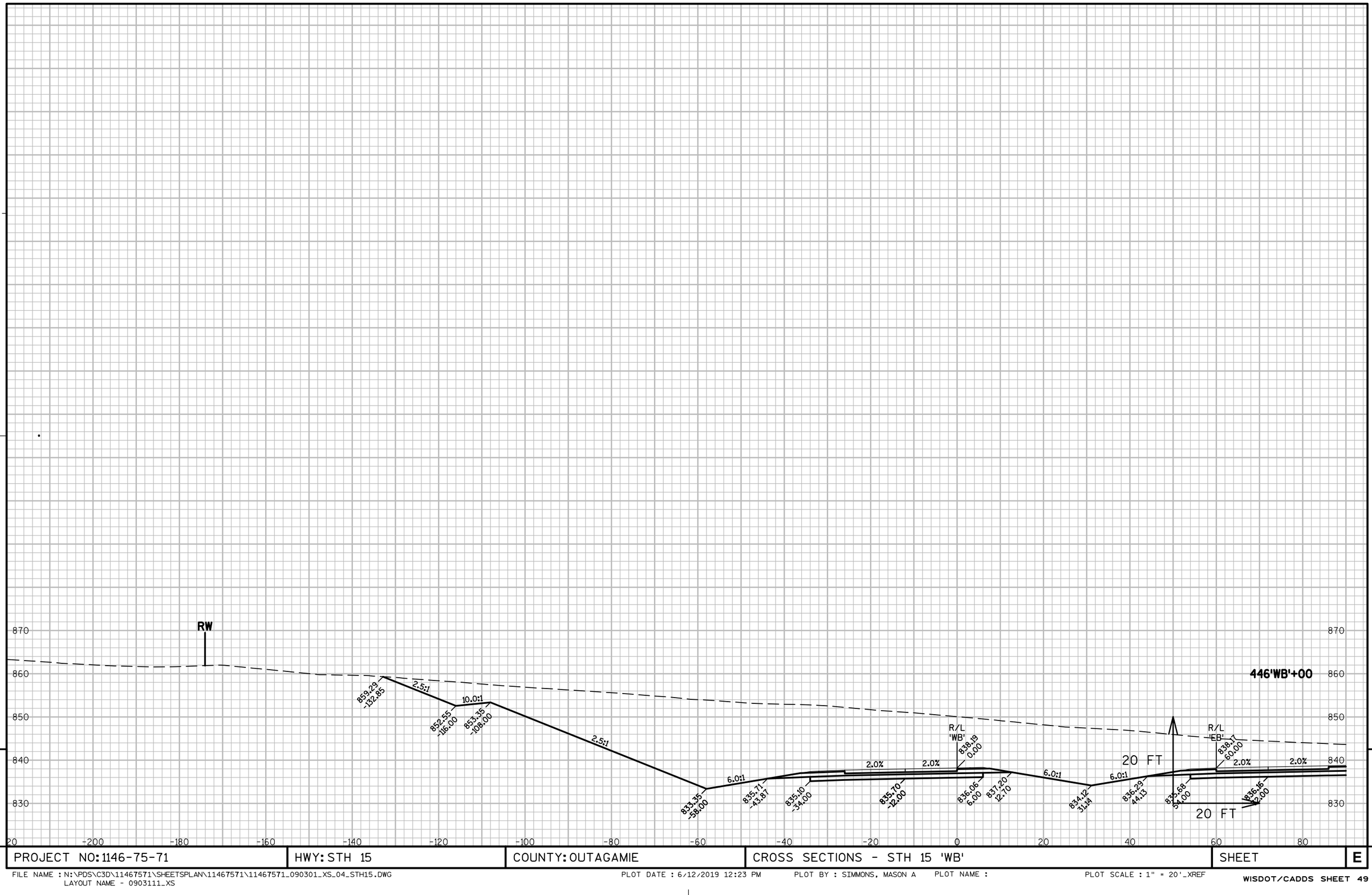
PLOT DATE : 6/12/2019 12:23 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903110_XS

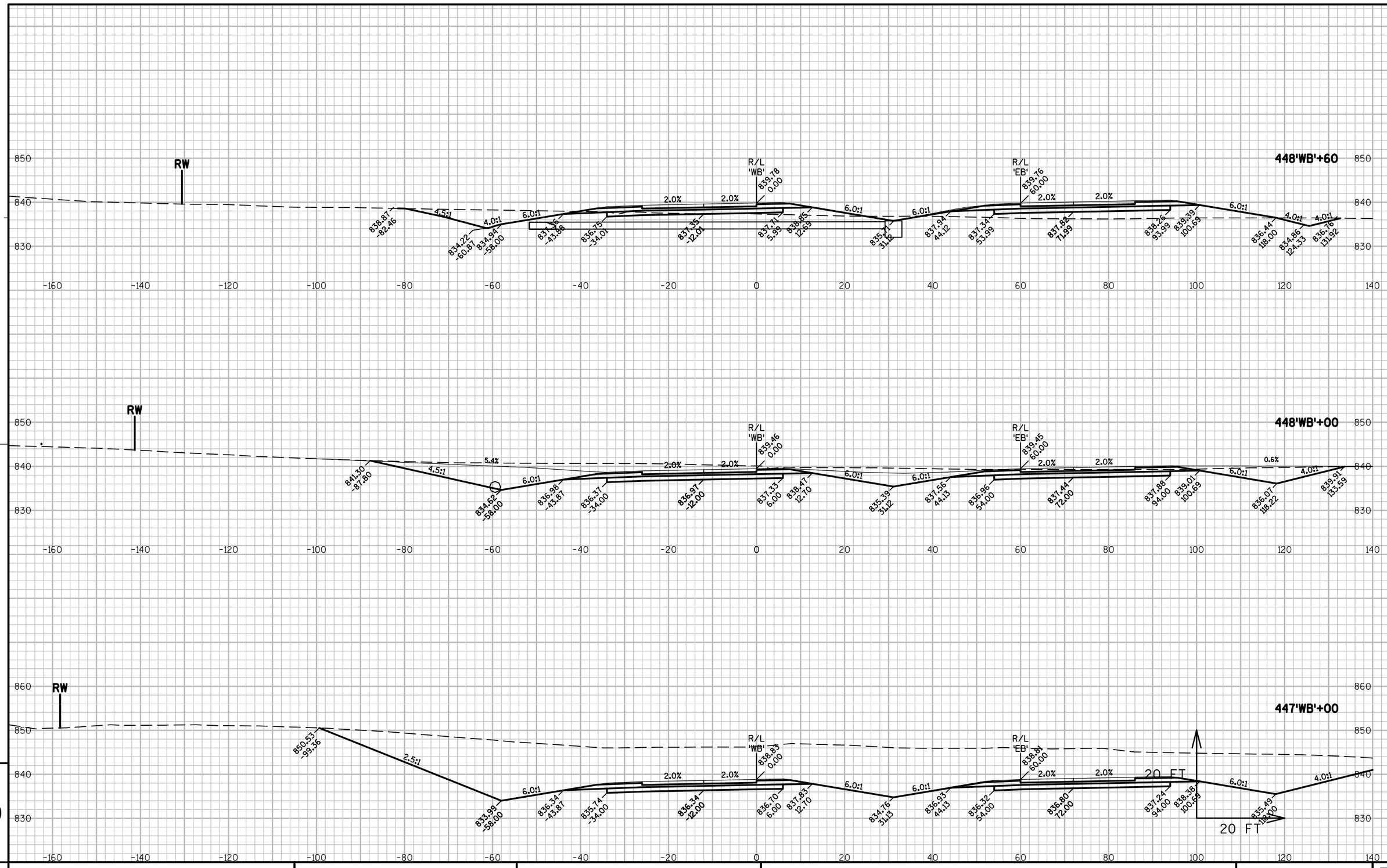
PLOT DATE : 6/12/2019 12:23 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

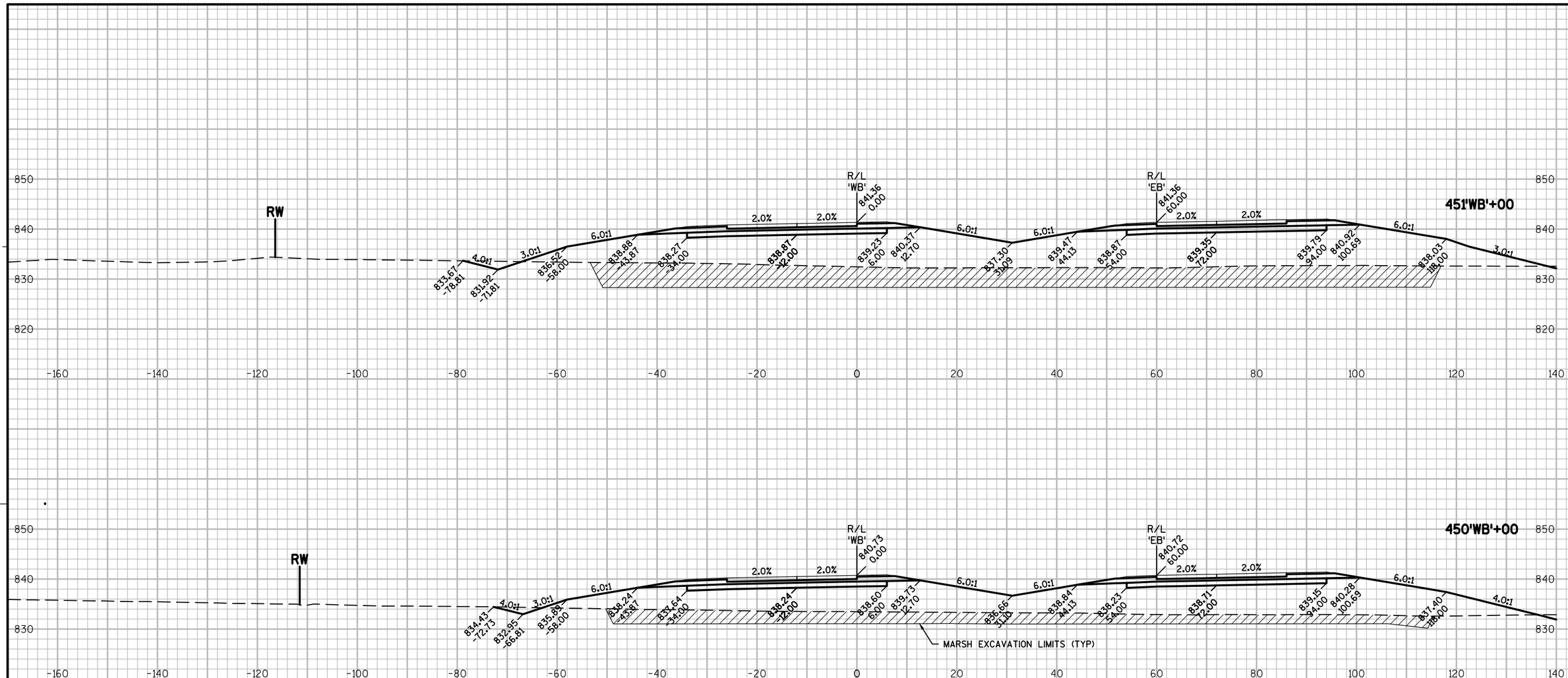
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903111_XS

PLOT DATE : 6/12/2019 12:23 PM 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	E

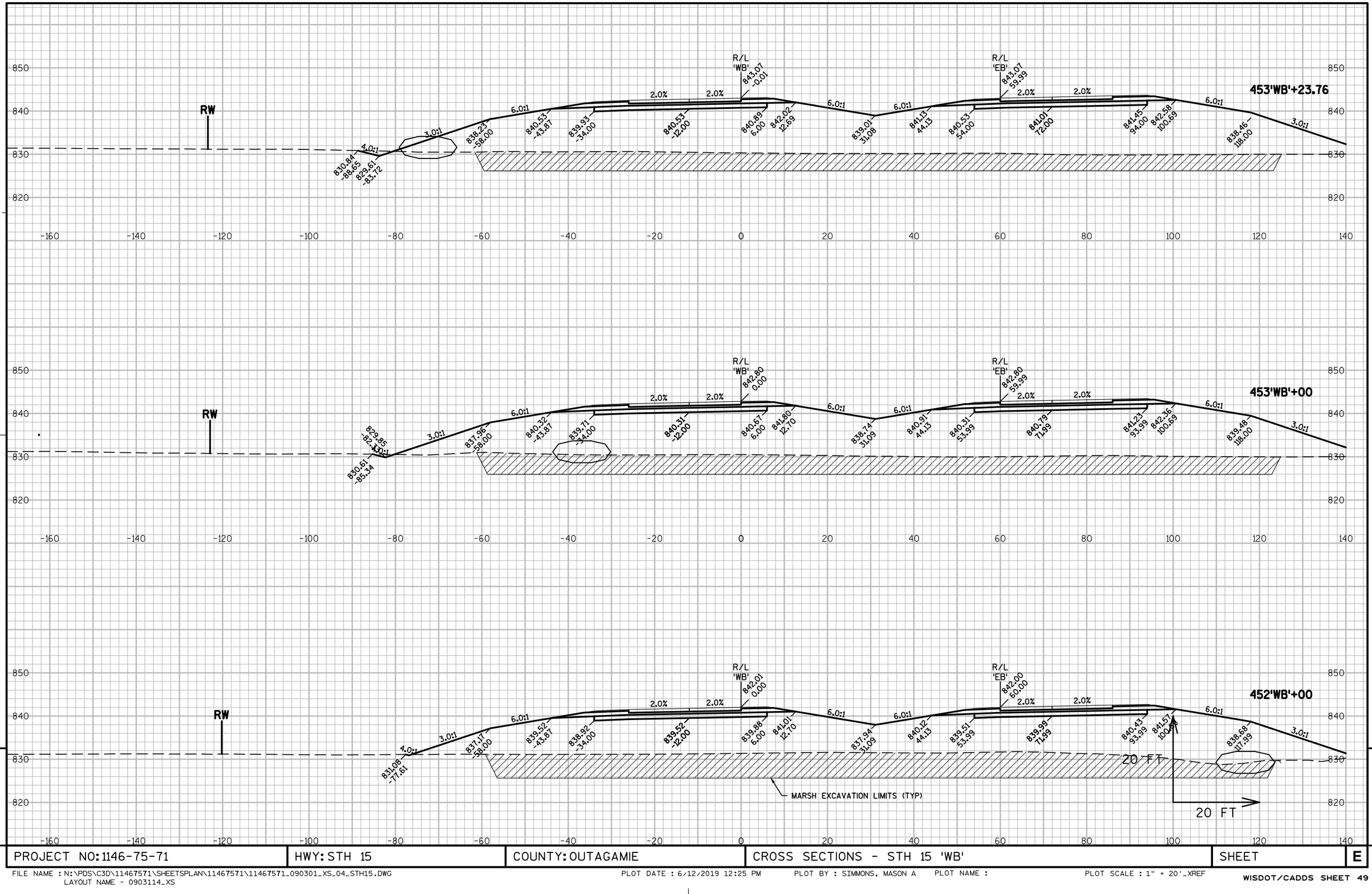
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903112_XS
PLOT DATE : 6/12/2019 12:24 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903113_XS

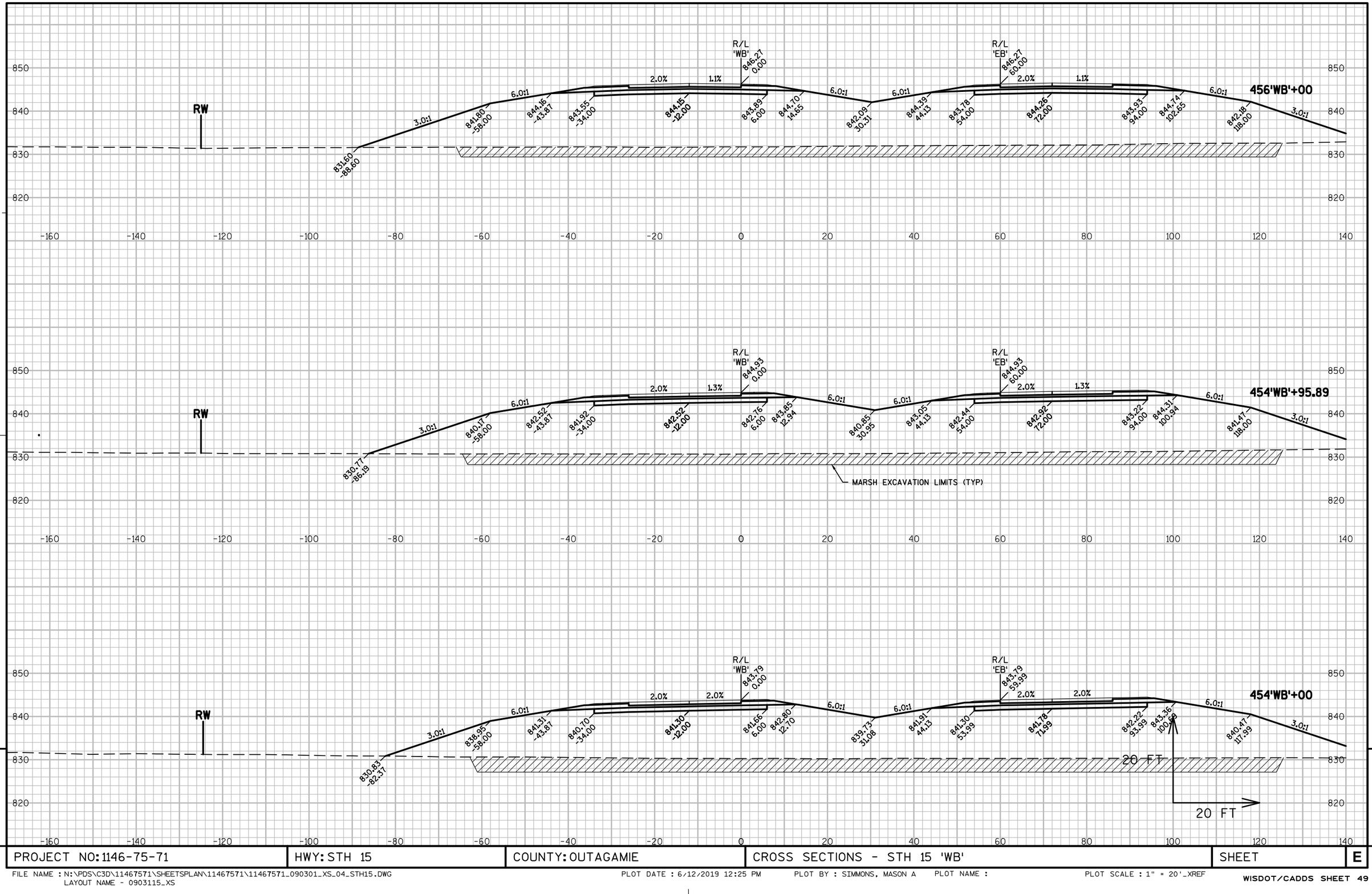
PLOT DATE : 6/12/2019 12:24 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

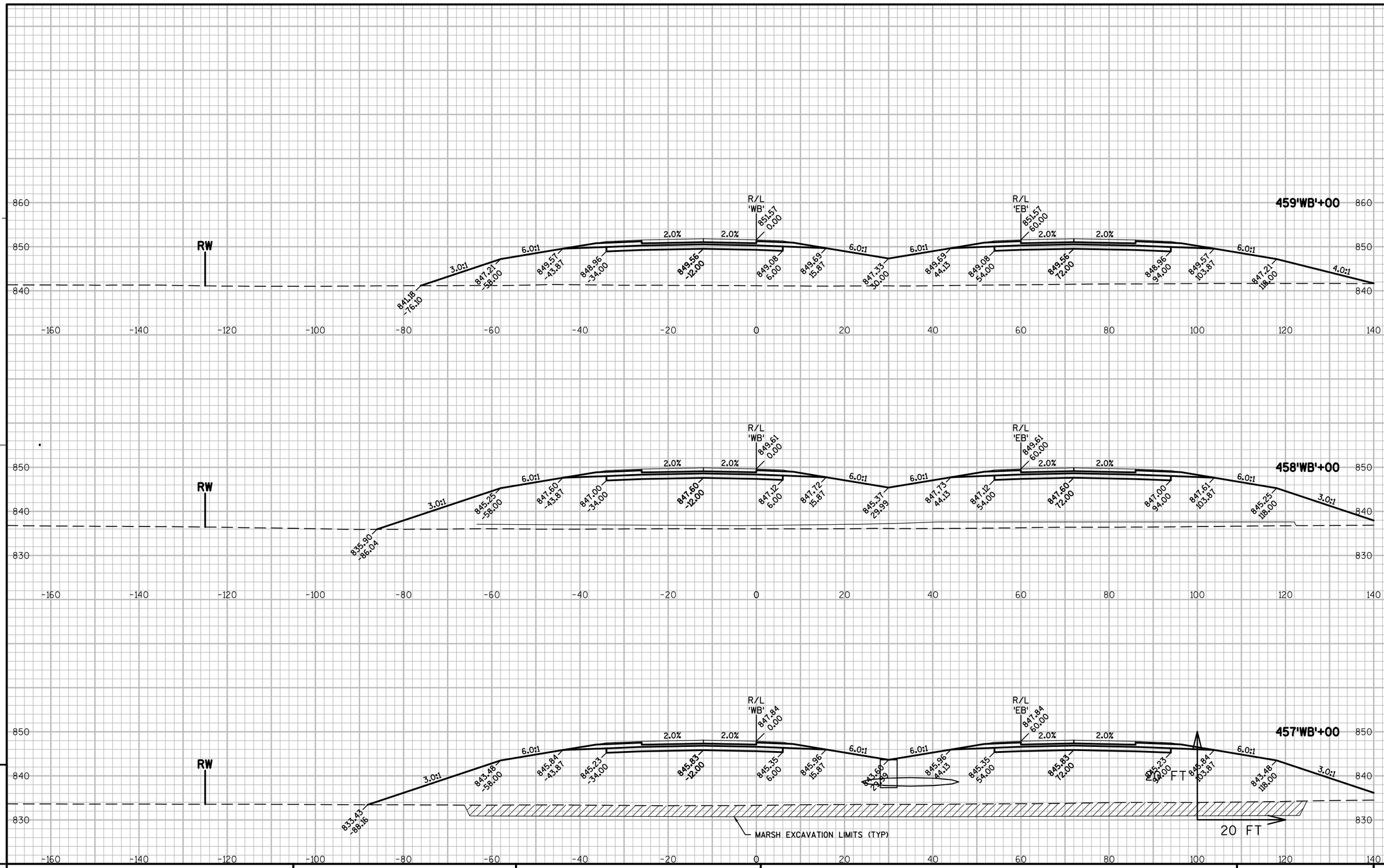
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903114_XS

PLOT DATE : 6/12/2019 12:25 PM 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	E

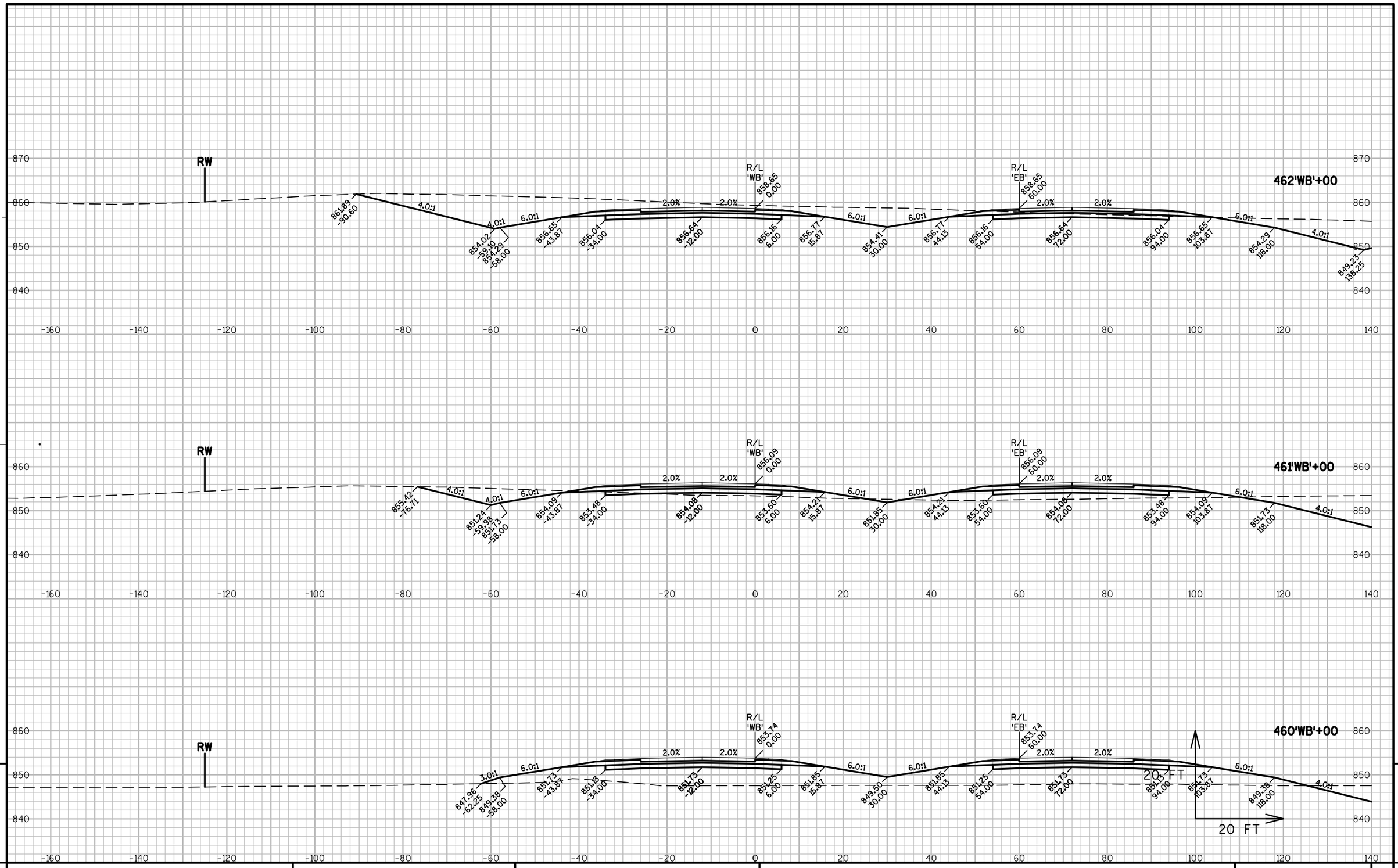
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903115_XS
PLOT DATE : 6/12/2019 12:25 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903116_XS

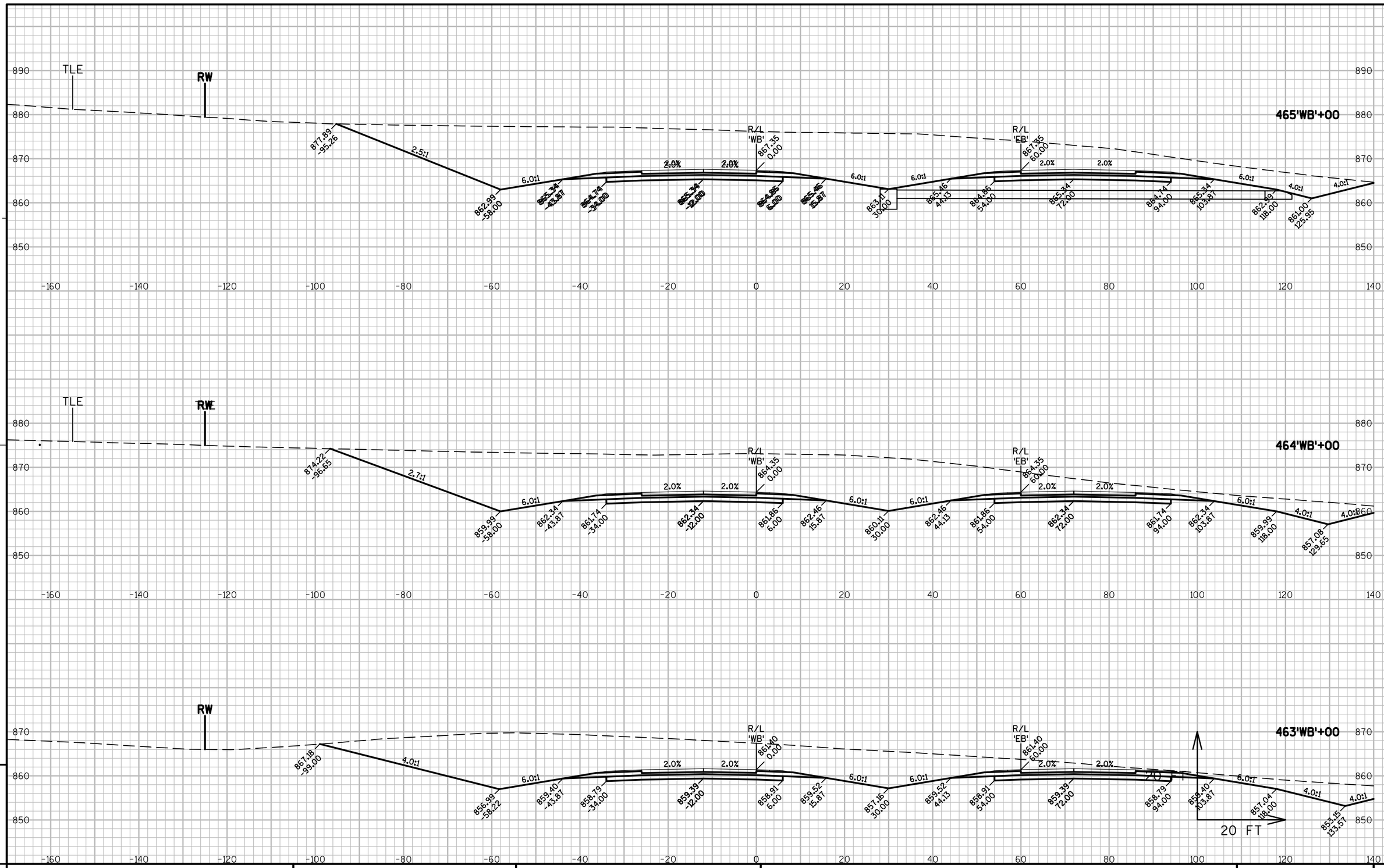
PLOT DATE : 6/12/2019 12:26 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903117_XS

PLOT DATE : 6/12/2019 12:26 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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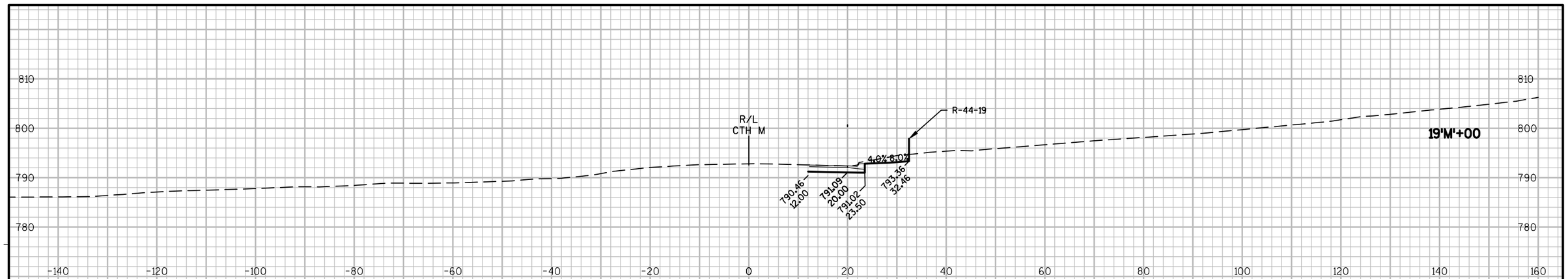
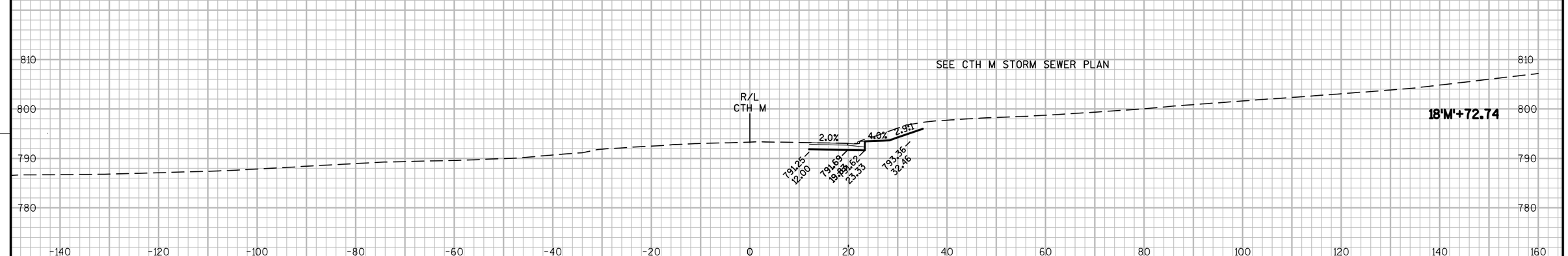
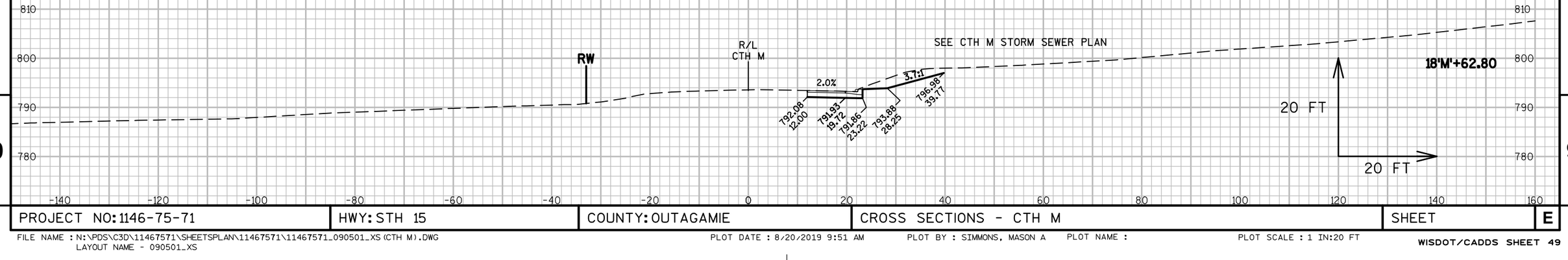
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - STH 15 'WB'	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090301_XS_04_STH15.DWG
LAYOUT NAME - 0903118_XS
PLOT DATE : 6/12/2019 12:27 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1" = 20'_XREF







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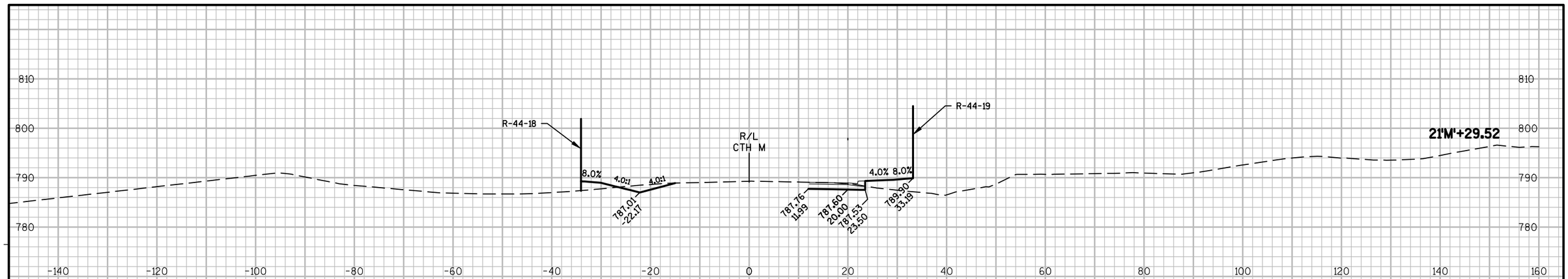
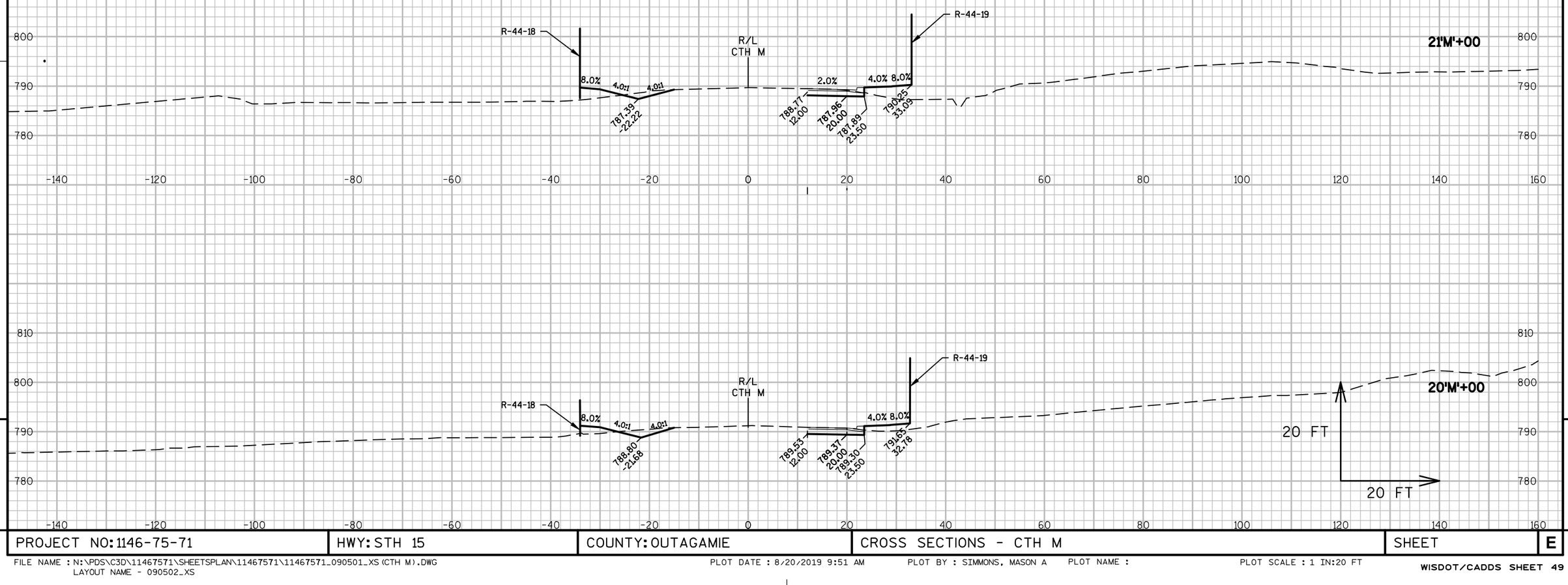
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH M	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090501_XS (CTH M).DWG
LAYOUT NAME - 090501_XS

PLOT DATE : 8/20/2019 9:51 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT





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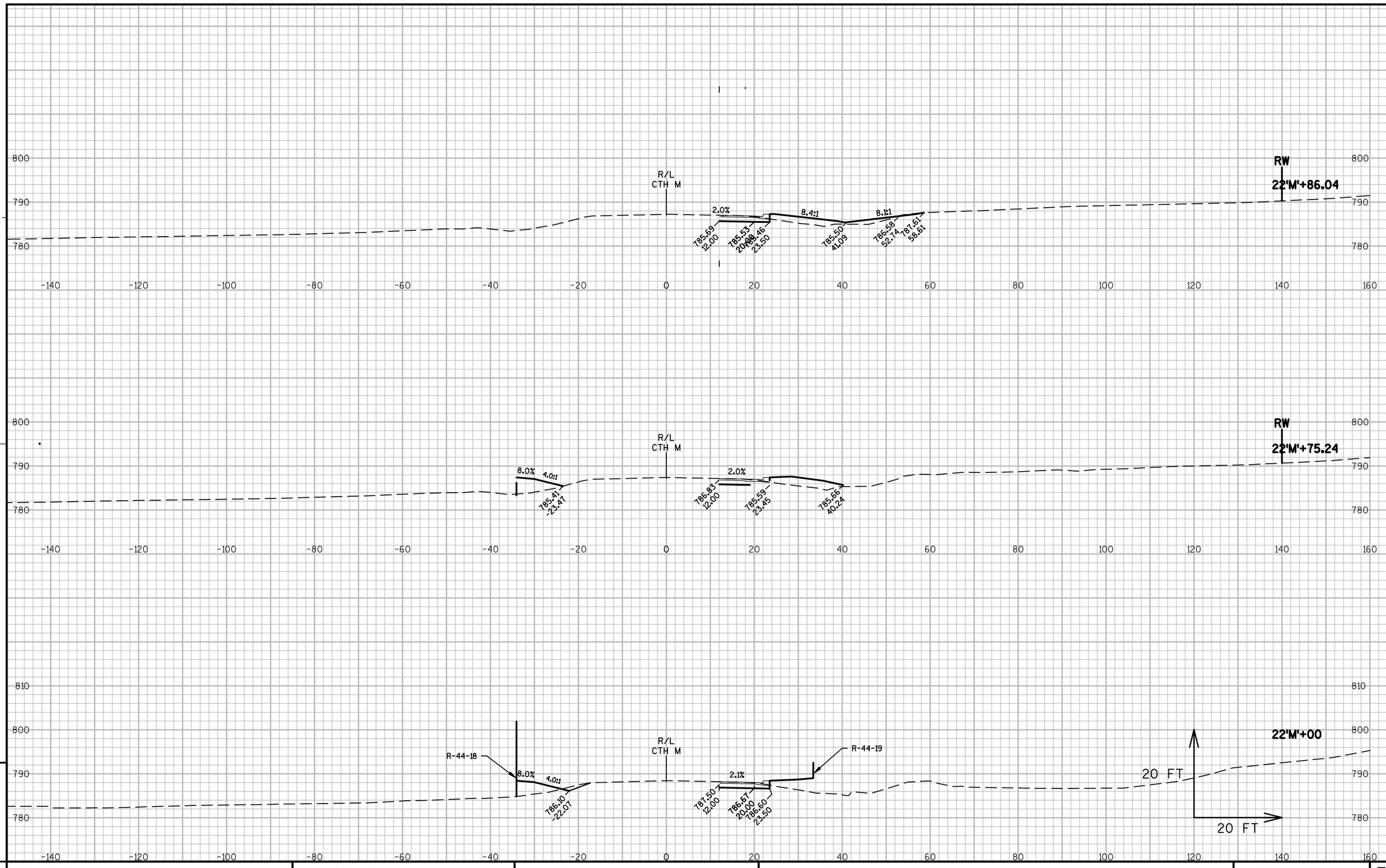
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH M	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090501_XS (CTH M).DWG
LAYOUT NAME - 090502_XS

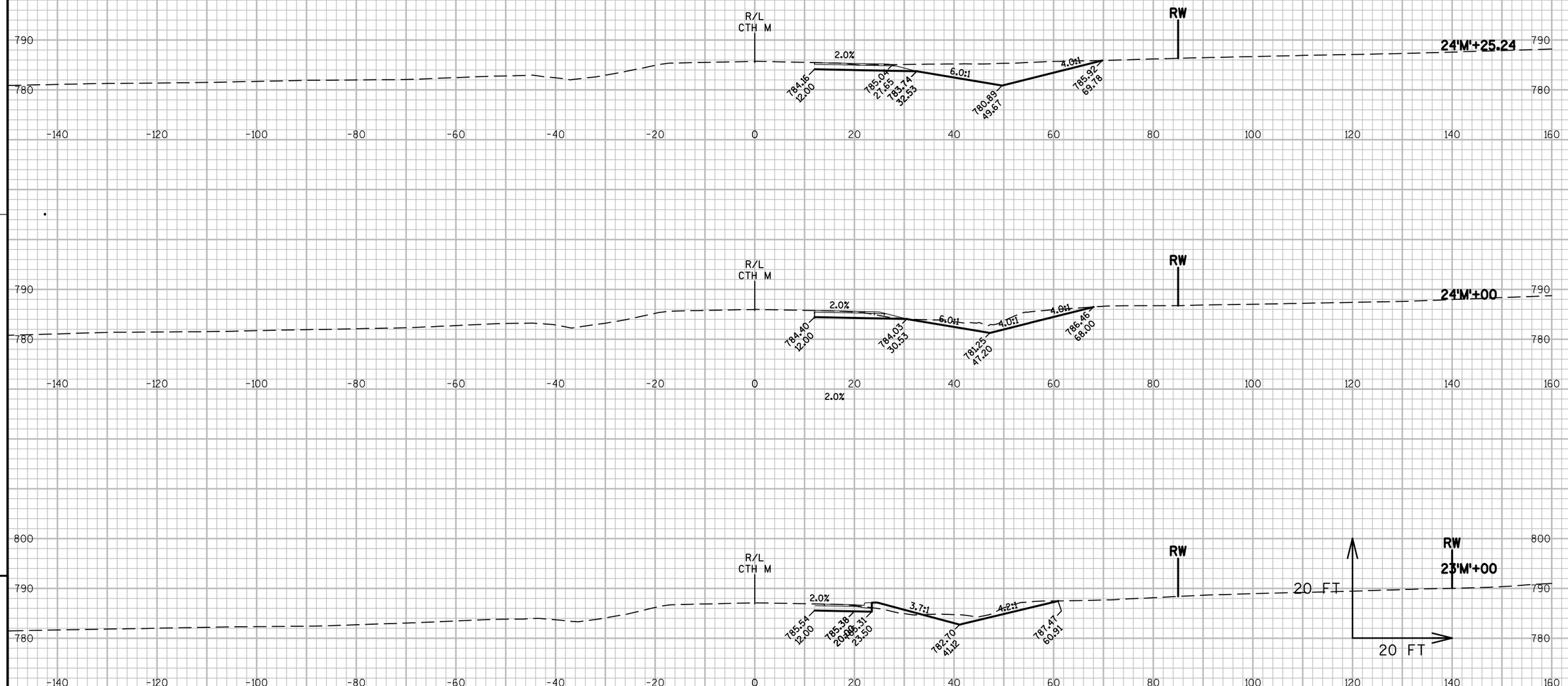
PLOT DATE : 8/20/2019 9:51 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH M	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090501_XS (CTH M).DWG
LAYOUT NAME - 090503_XS

PLOT DATE : 8/20/2019 9:51 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT



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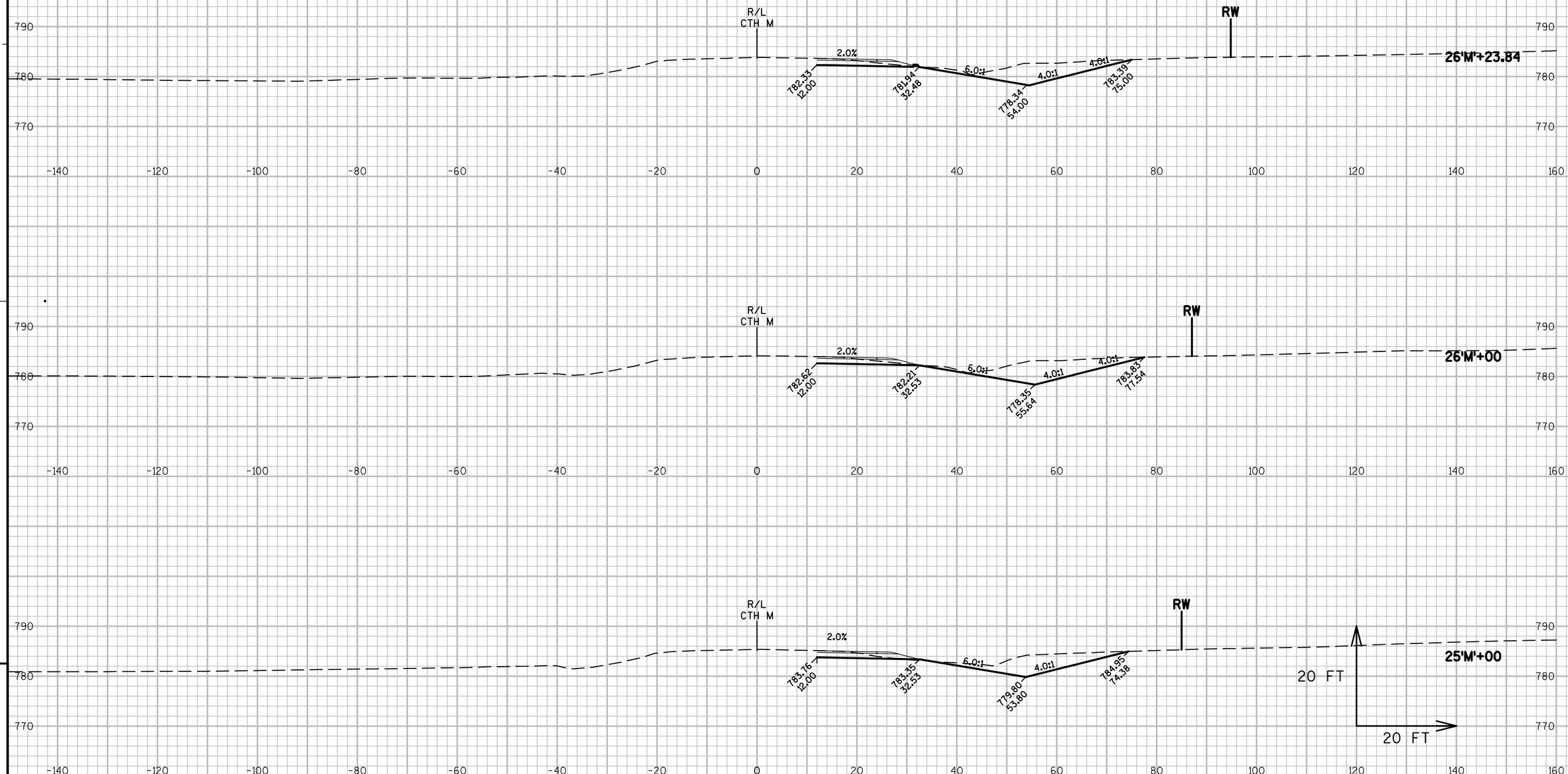
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH M	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090501_XS (CTH M).DWG
LAYOUT NAME - 090504_XS

PLOT DATE : 8/20/2019 9:51 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT



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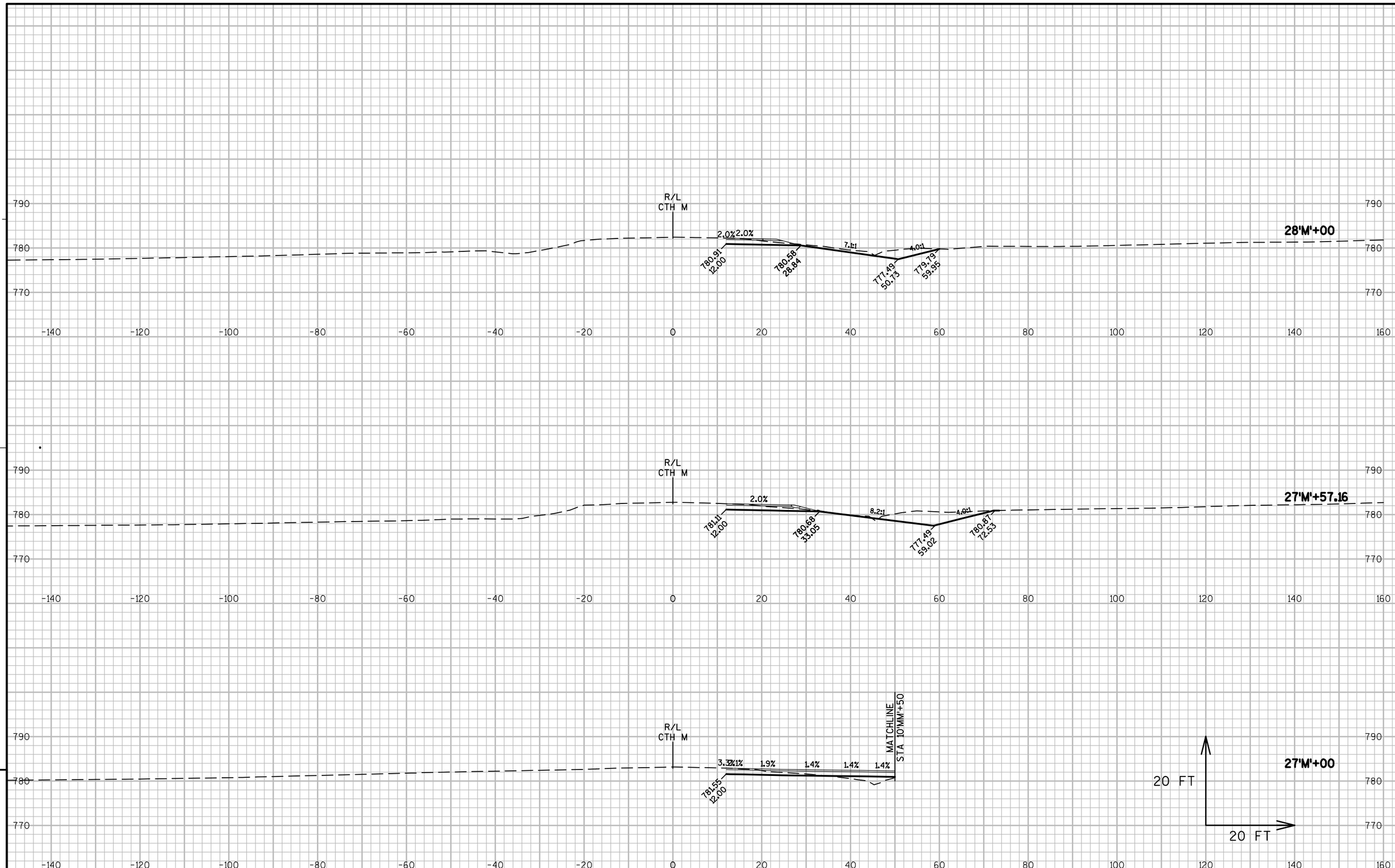
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH M	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090501_XS (CTH M).DWG
LAYOUT NAME - 090505_XS

PLOT DATE : 8/20/2019 9:51 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT



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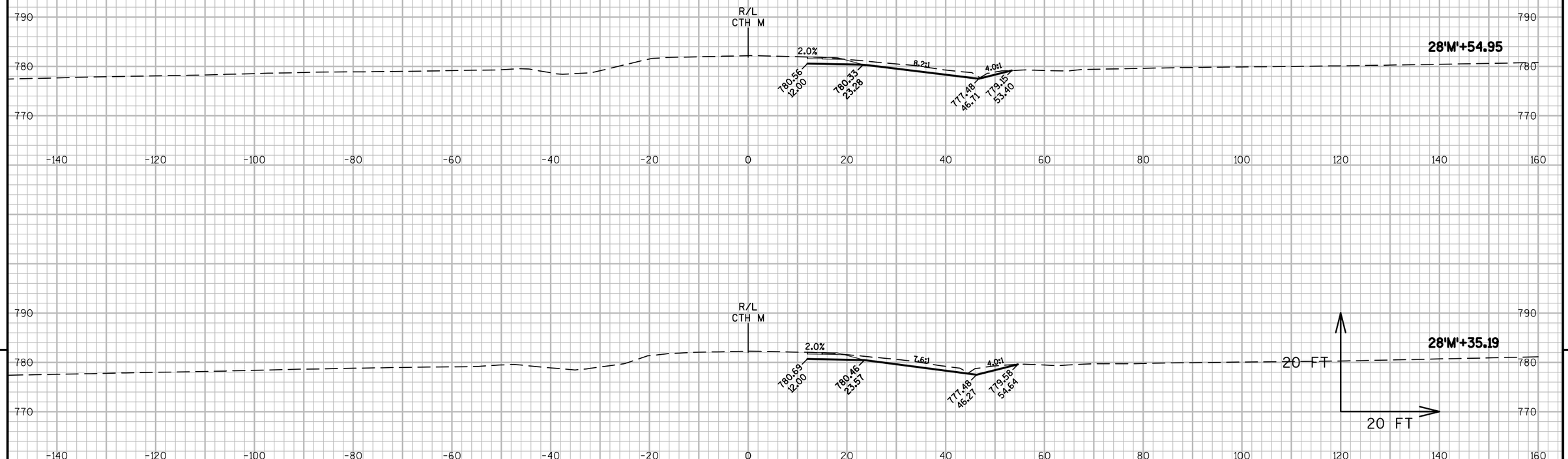
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH M	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090501_XS (CTH M).DWG
LAYOUT NAME - 090506_XS

PLOT DATE : 8/20/2019 9:51 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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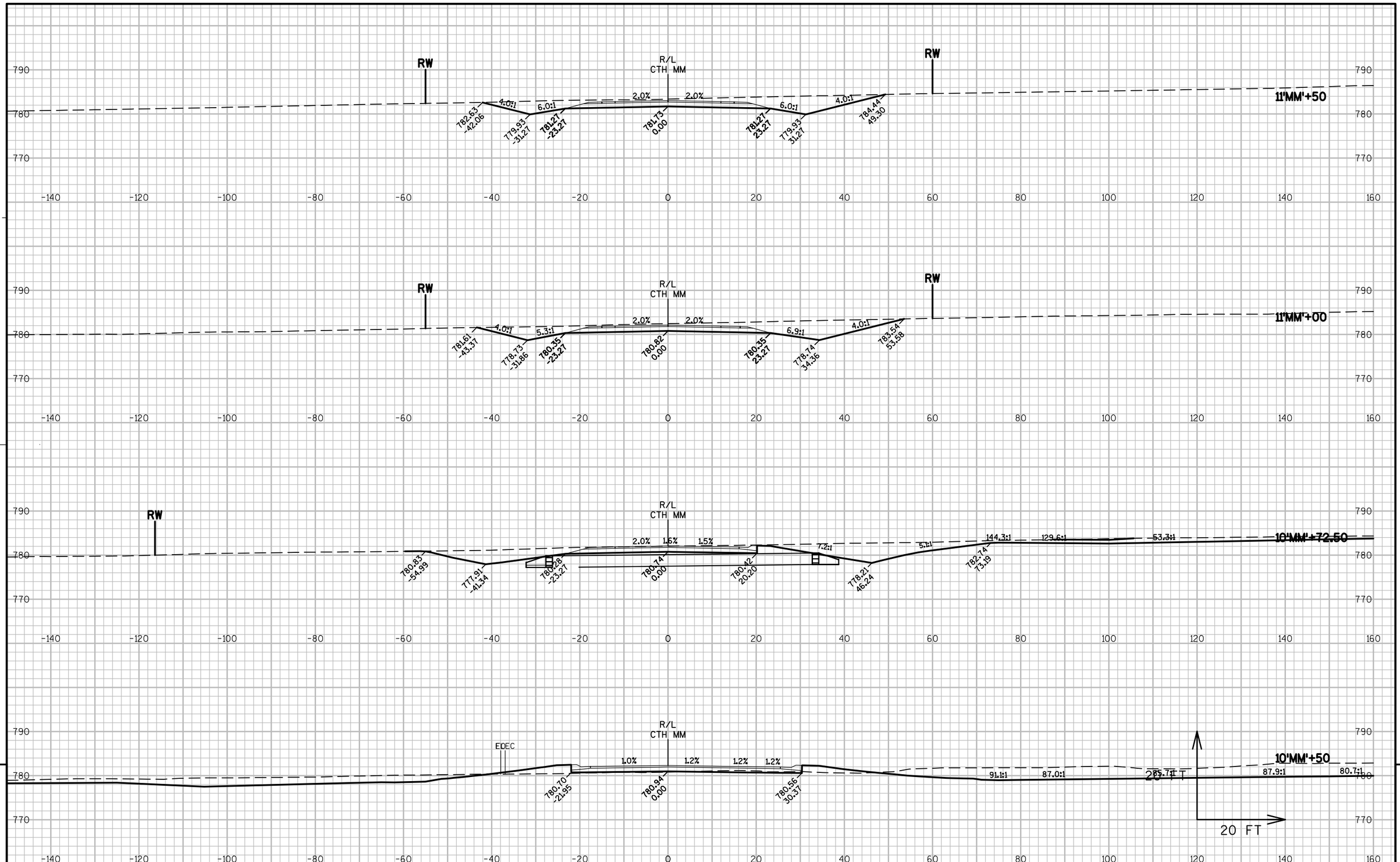
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH M	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090501_XS (CTH M).DWG
LAYOUT NAME - 090507_XS

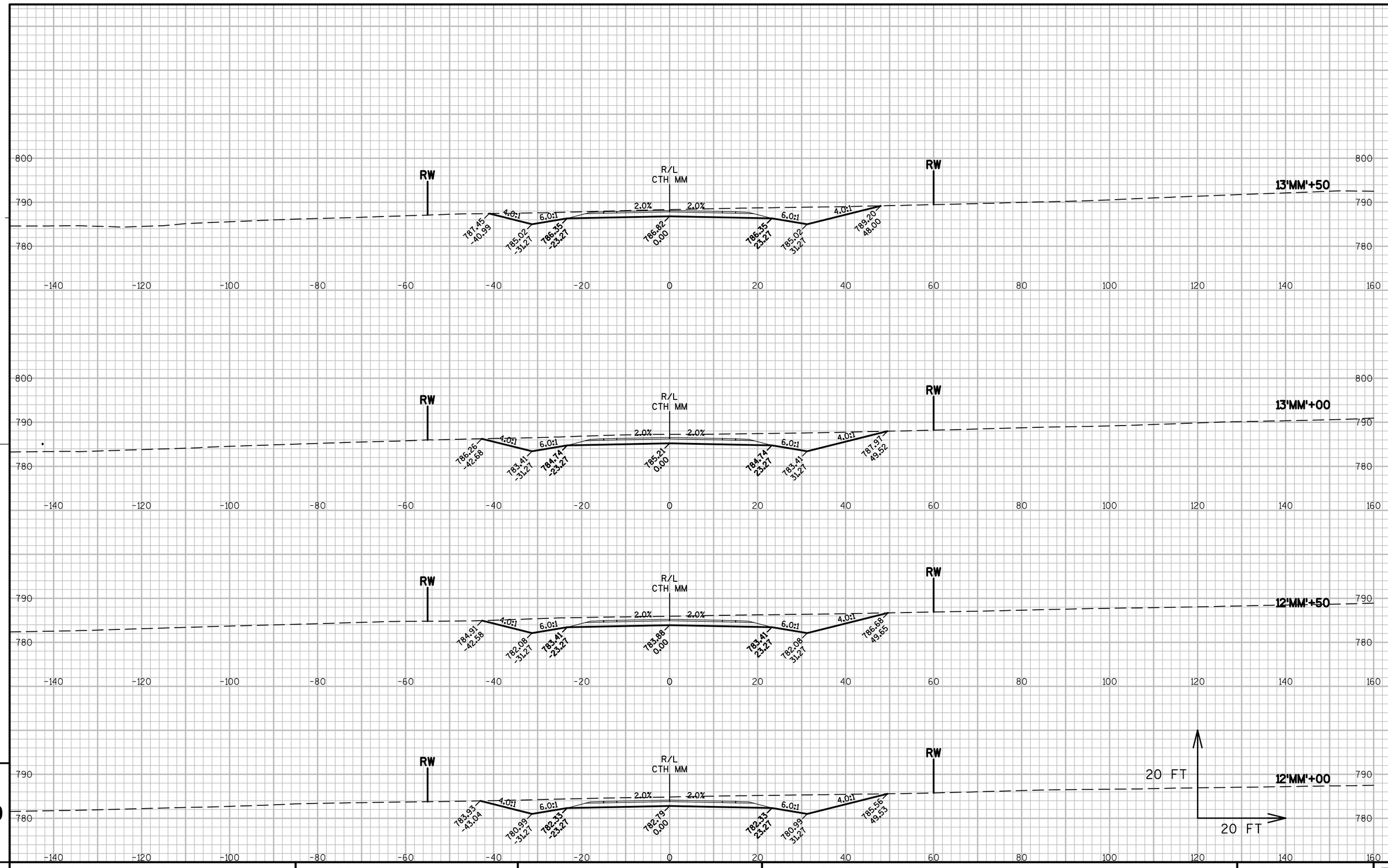
PLOT DATE : 8/20/2019 9:51 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET	E

FILE NAME : S:\PDS\C3D\WIS15\11467571\SHEETSPLAN\11467571_090601_XS.DWG
LAYOUT NAME - 090601-XS

PLOT DATE : 2/24/2015 9:34 AM PLOT BY : HEIM, BRENT P PLOT NAME : PLOT SCALE : 1:20_XREF



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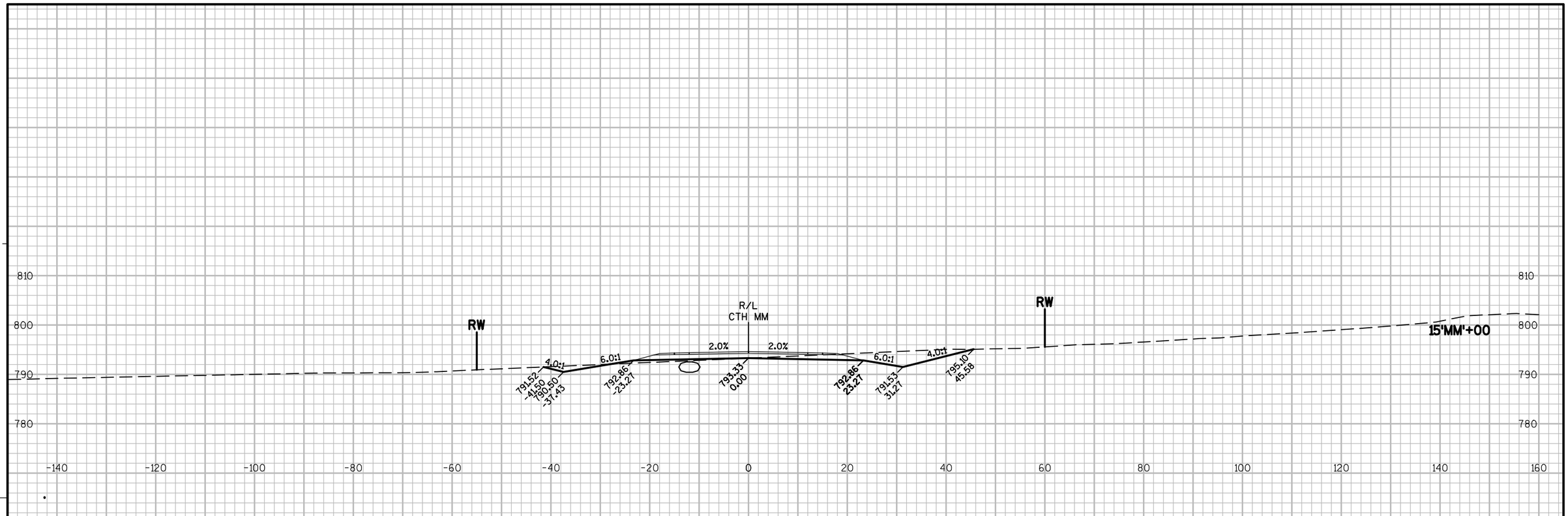
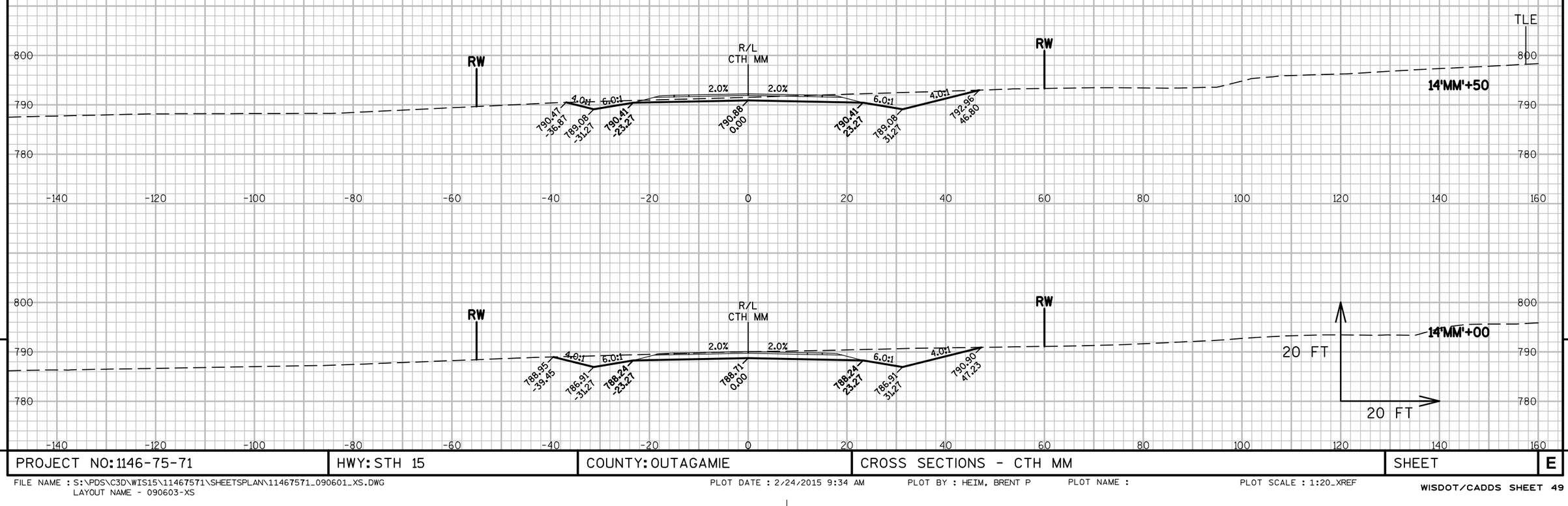
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET	E

FILE NAME : S:\PDS\C3D\WIS15\11467571\SHEETSPLAN\11467571_090601_XS.DWG
LAYOUT NAME - 090602-XS

PLOT DATE : 2/24/2015 9:34 AM PLOT BY : HEIM, BRENT P PLOT NAME : PLOT SCALE : 1:20_XREF





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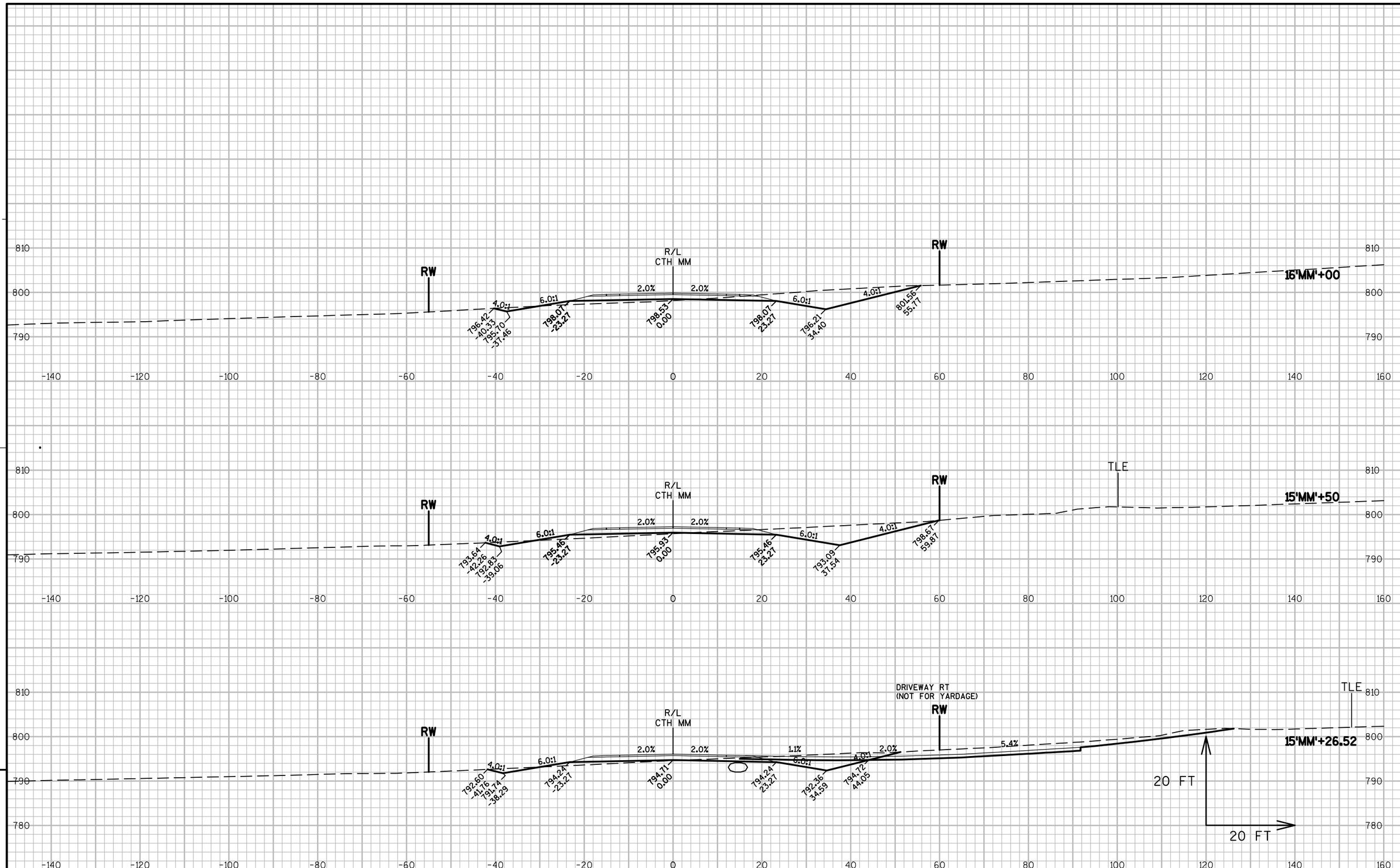
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET	E

FILE NAME : S:\PDS\C3D\WIS15\11467571\SHEETSPLAN\11467571_090601_XS.DWG
LAYOUT NAME - 090603-XS

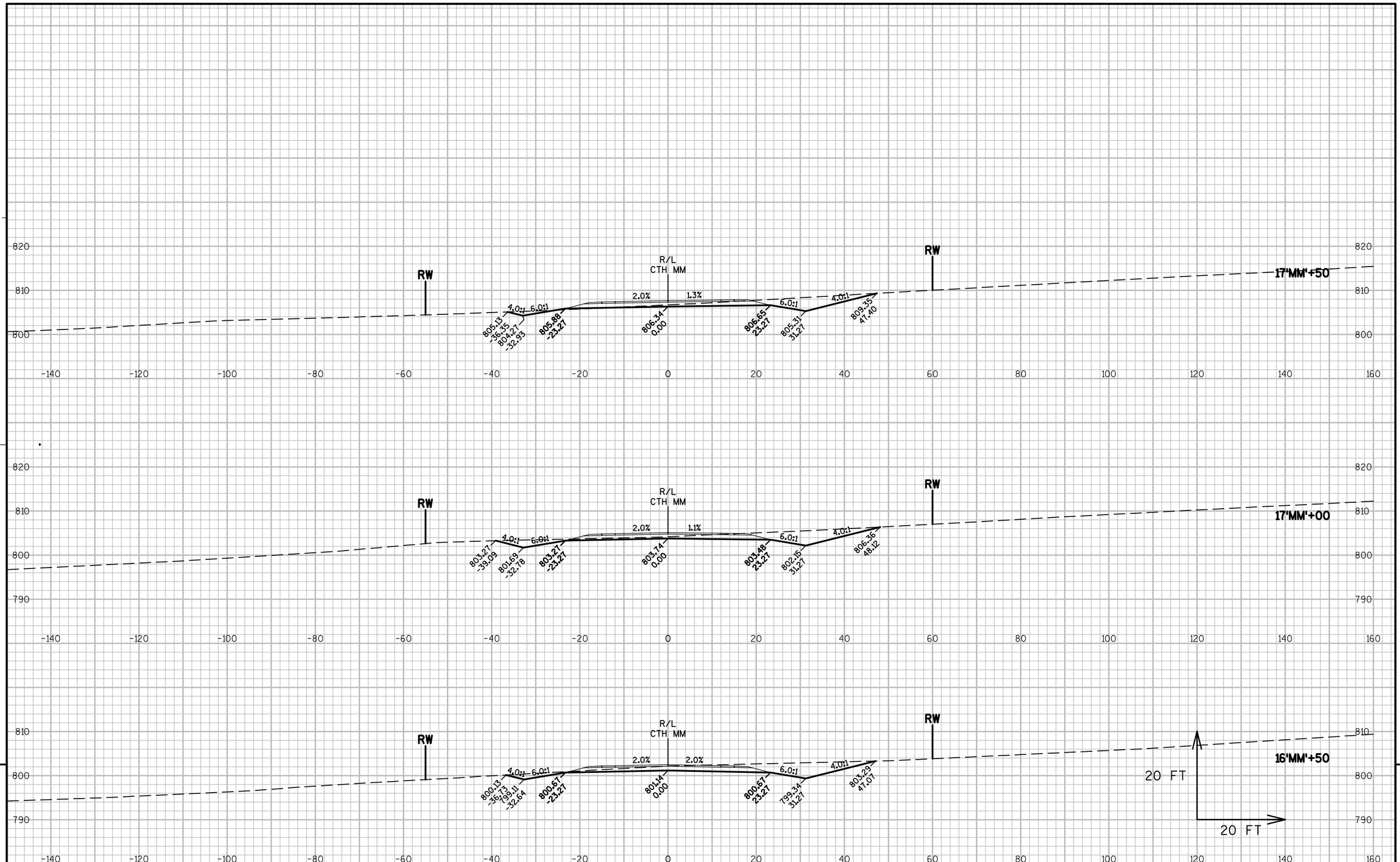
PLOT DATE : 2/24/2015 9:34 AM PLOT BY : HEIM, BRENT P PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET	E

FILE NAME : S:\PDS\C3D\WIS15\11467571\SHEETSPLAN\11467571_090601_XS.DWG
LAYOUT NAME - 090604-XS

PLOT DATE : 2/24/2015 9:34 AM PLOT BY : HEIM, BRENT P PLOT NAME : PLOT SCALE : 1:20_XREF



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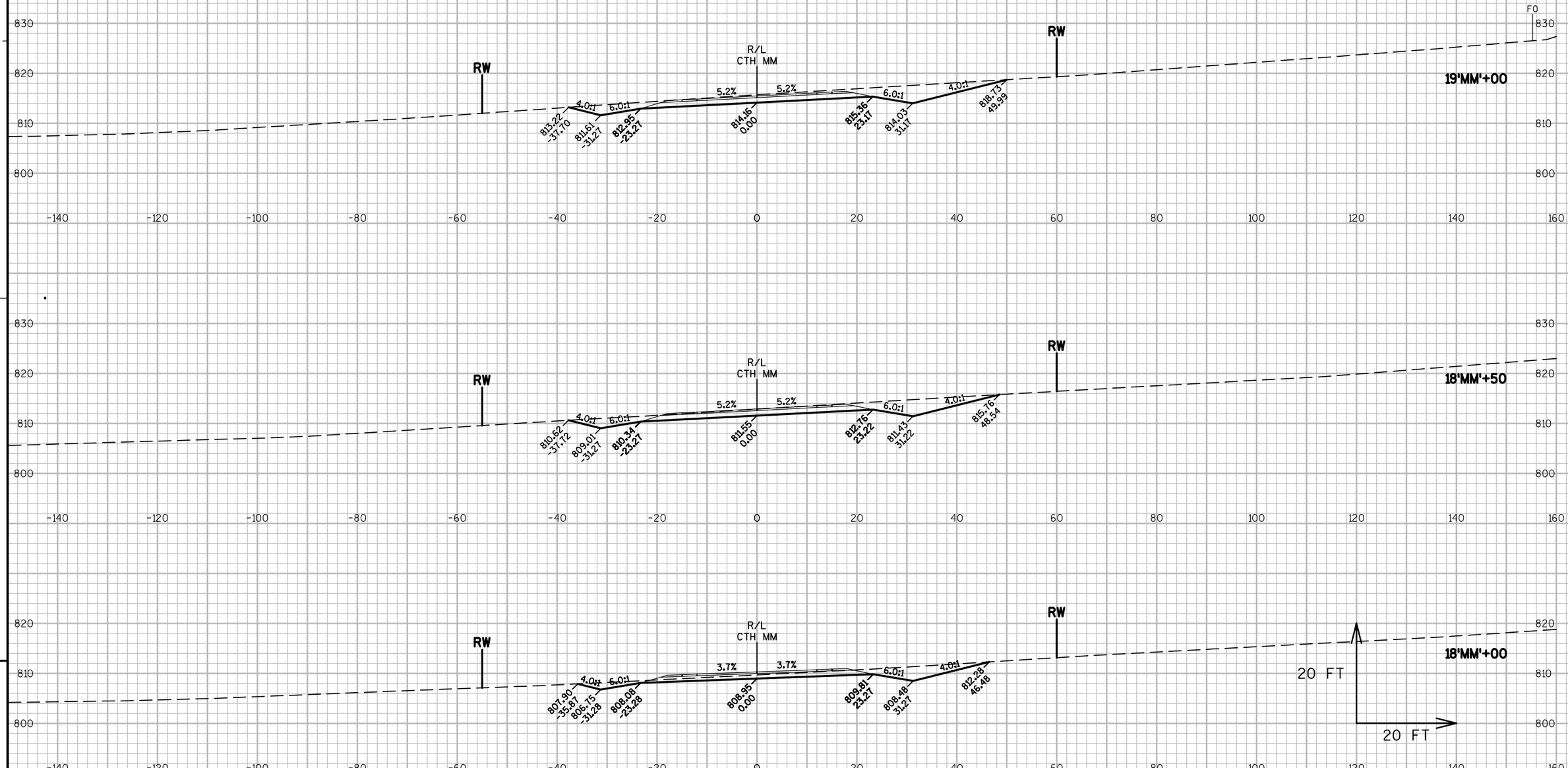
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET	E

FILE NAME : S:\PDS\C3D\WIS15\11467571\SHEETSPLAN\11467571_090601_XS.DWG
LAYOUT NAME - 090605-XS

PLOT DATE : 2/24/2015 9:34 AM PLOT BY : HEIM, BRENT P PLOT NAME : PLOT SCALE : 1:20_XREF



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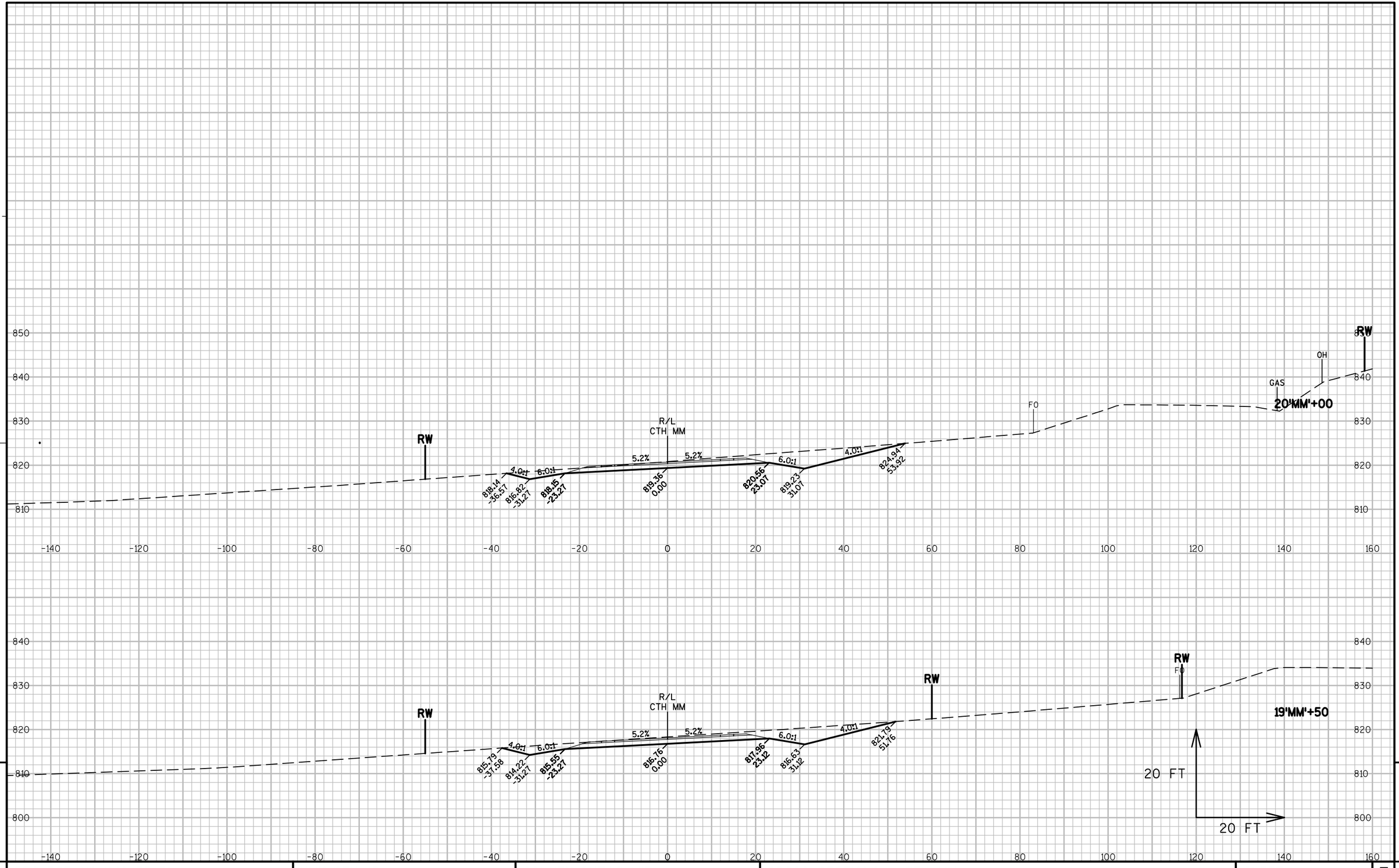
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET	E

FILE NAME : S:\PDS\C3D\WIS15\11467571\SHEETSPLAN\11467571_090601_XS.DWG
LAYOUT NAME - 090606-XS

PLOT DATE : 2/24/2015 9:34 AM PLOT BY : HEIM, BRENT P PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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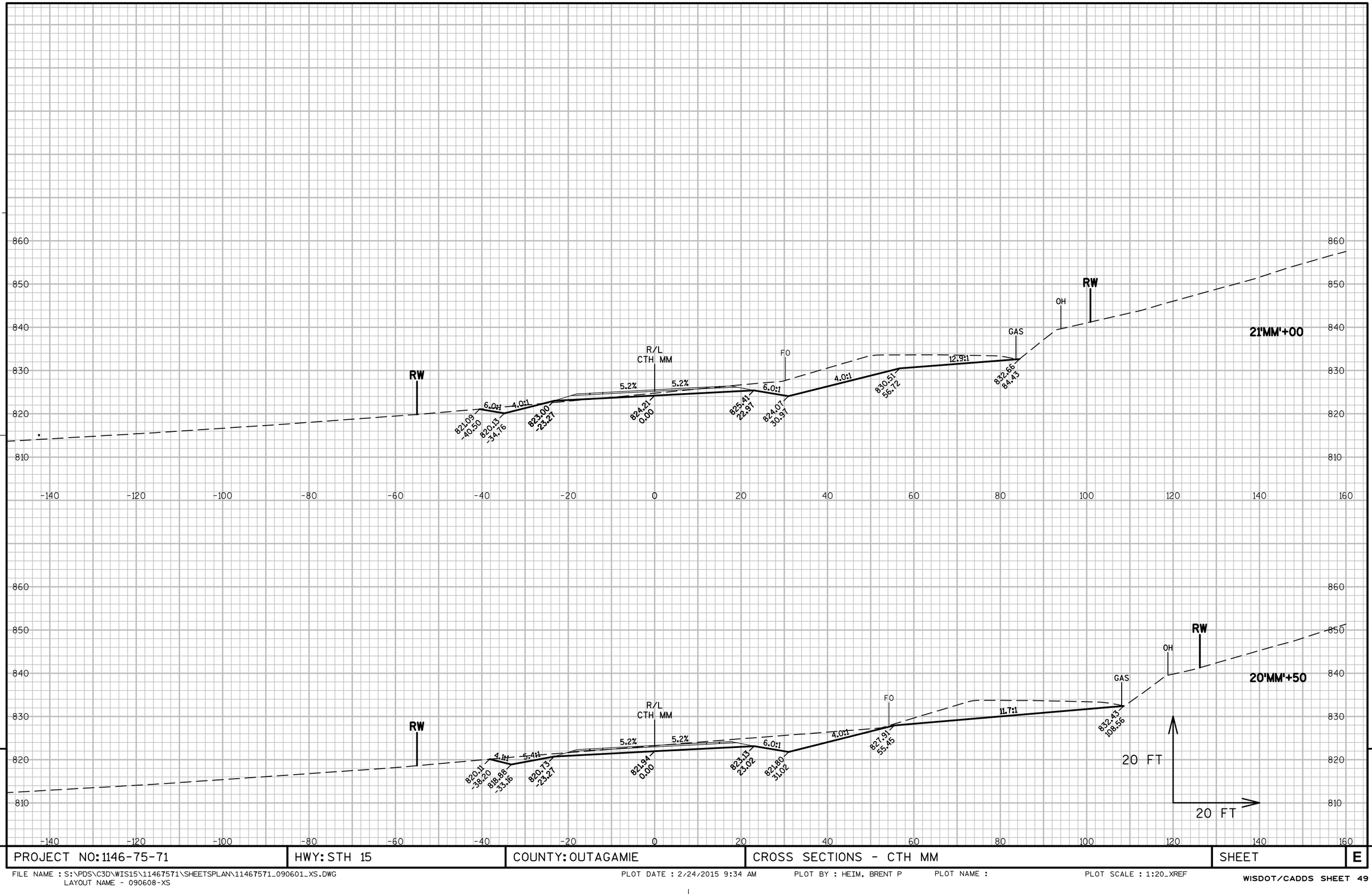
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET	E

FILE NAME : S:\PDS\C3D\WIS15\11467571\SHEETSPLAN\11467571_090601_XS.DWG
LAYOUT NAME - 090607-XS

PLOT DATE : 2/24/2015 9:34 AM PLOT BY : HEIM, BRENT P PLOT NAME : PLOT SCALE : 1:20_XREF



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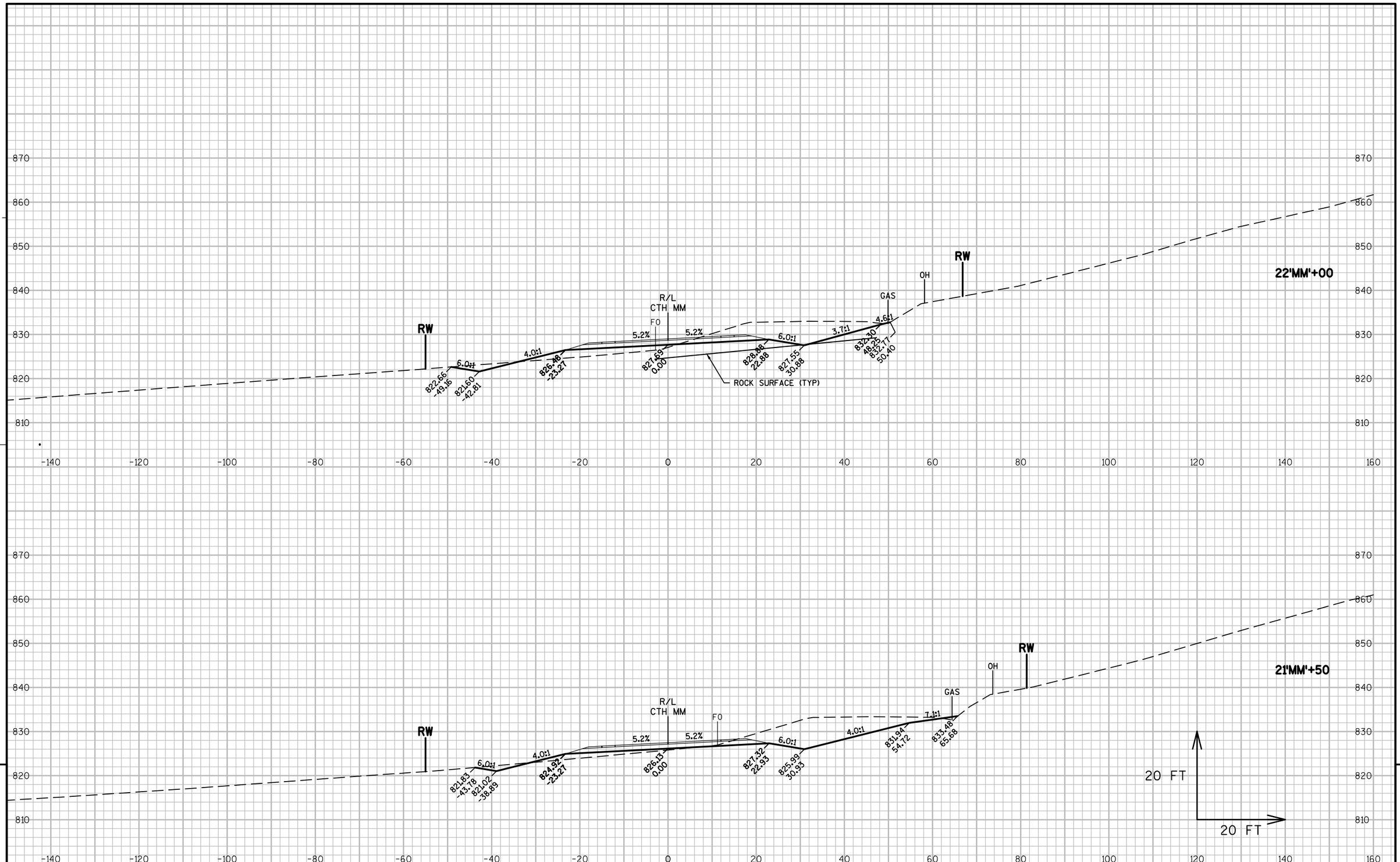
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET	E

FILE NAME : S:\PDS\C3D\WIS15\11467571\SHEETSPLAN\11467571_090601_XS.DWG
LAYOUT NAME - 090608-XS

PLOT DATE : 2/24/2015 9:34 AM PLOT BY : HEIM, BRENT P PLOT NAME : PLOT SCALE : 1:20_XREF



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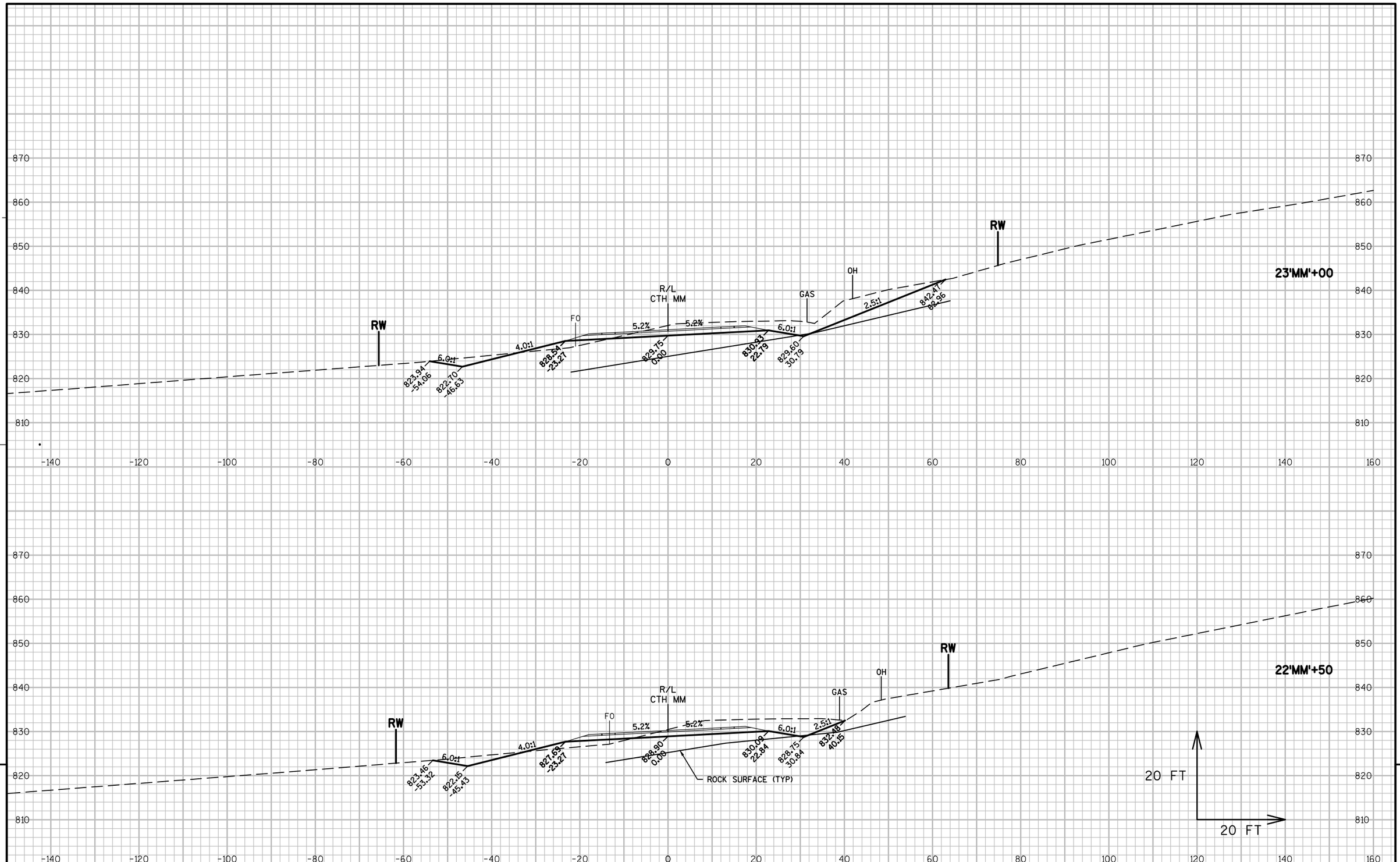
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET	E

FILE NAME : S:\PDS\C3D\WIS15\11467571\SHEETSPLAN\11467571_090601_XS.DWG
LAYOUT NAME - 090609-XS

PLOT DATE : 2/24/2015 9:34 AM PLOT BY : HEIM, BRENT P PLOT NAME : PLOT SCALE : 1:20_XREF



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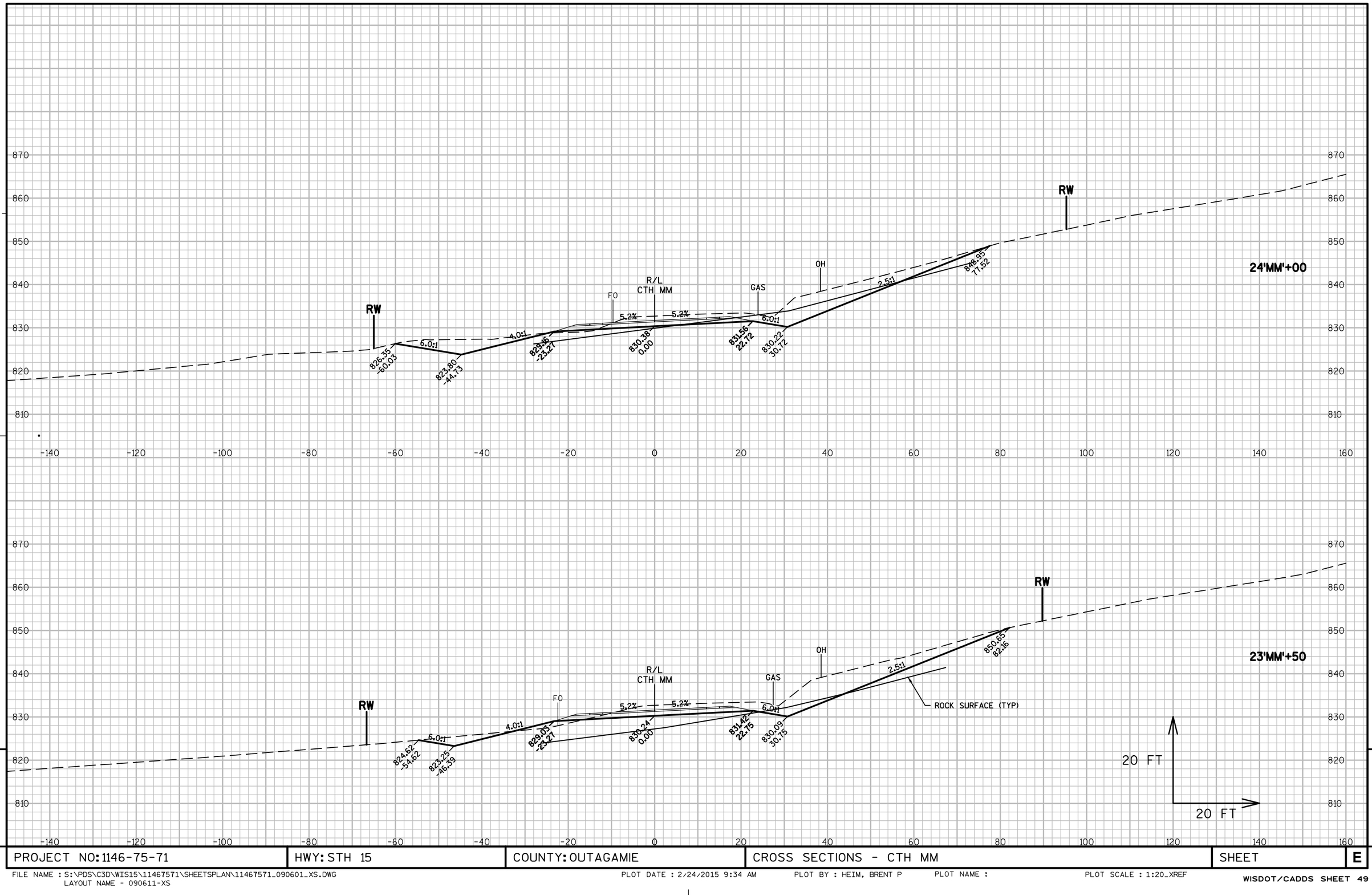
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET	E

FILE NAME : S:\PDS\C3D\WIS15\11467571\SHEETSPLAN\11467571_090601_XS.DWG
LAYOUT NAME - 090610-XS

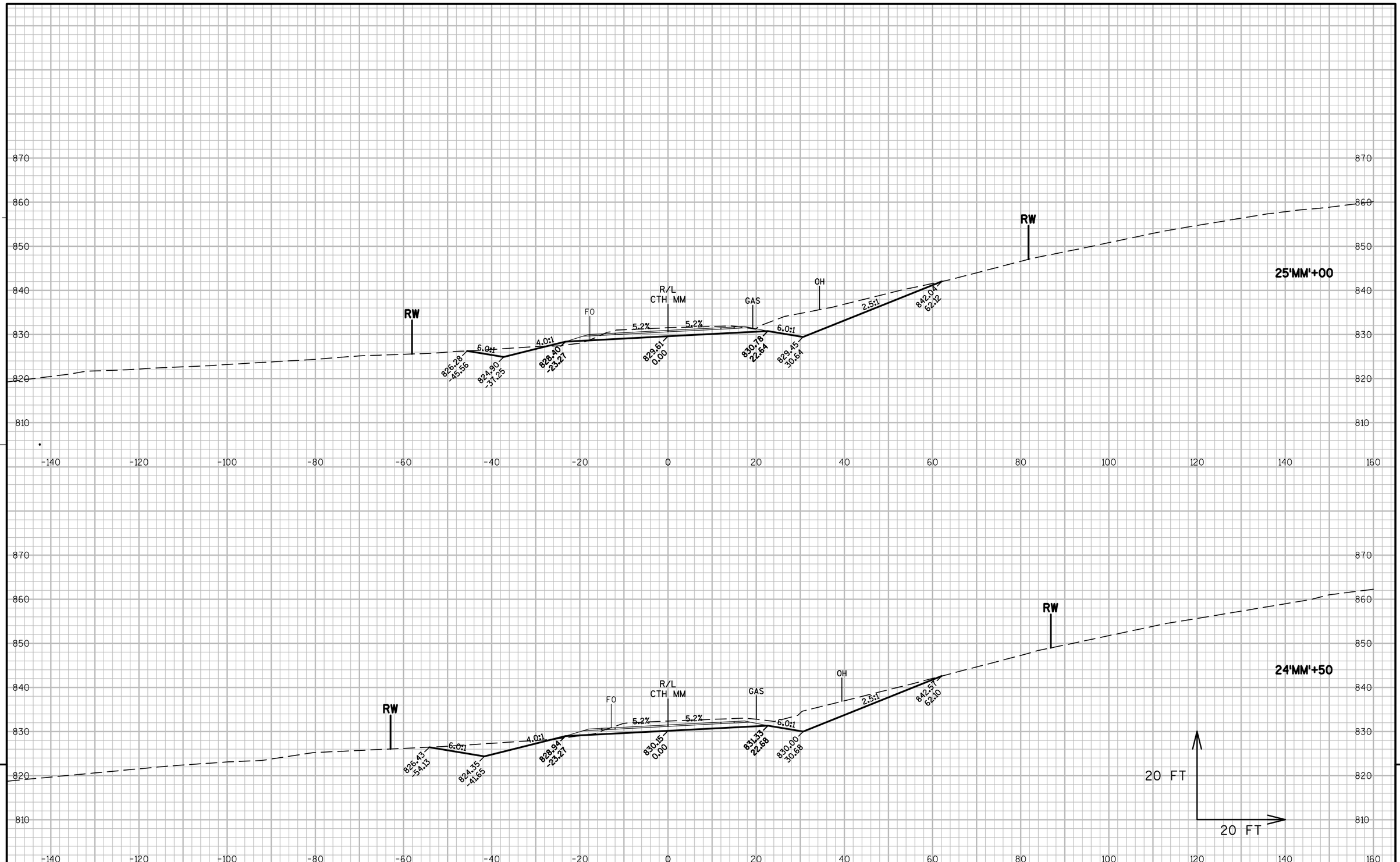
PLOT DATE : 2/24/2015 9:34 AM PLOT BY : HEIM, BRENT P PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET	E

FILE NAME : S:\PDS\C3D\WIS15\11467571\SHEETSPLAN\11467571_090601_XS.DWG
LAYOUT NAME - 090611-XS

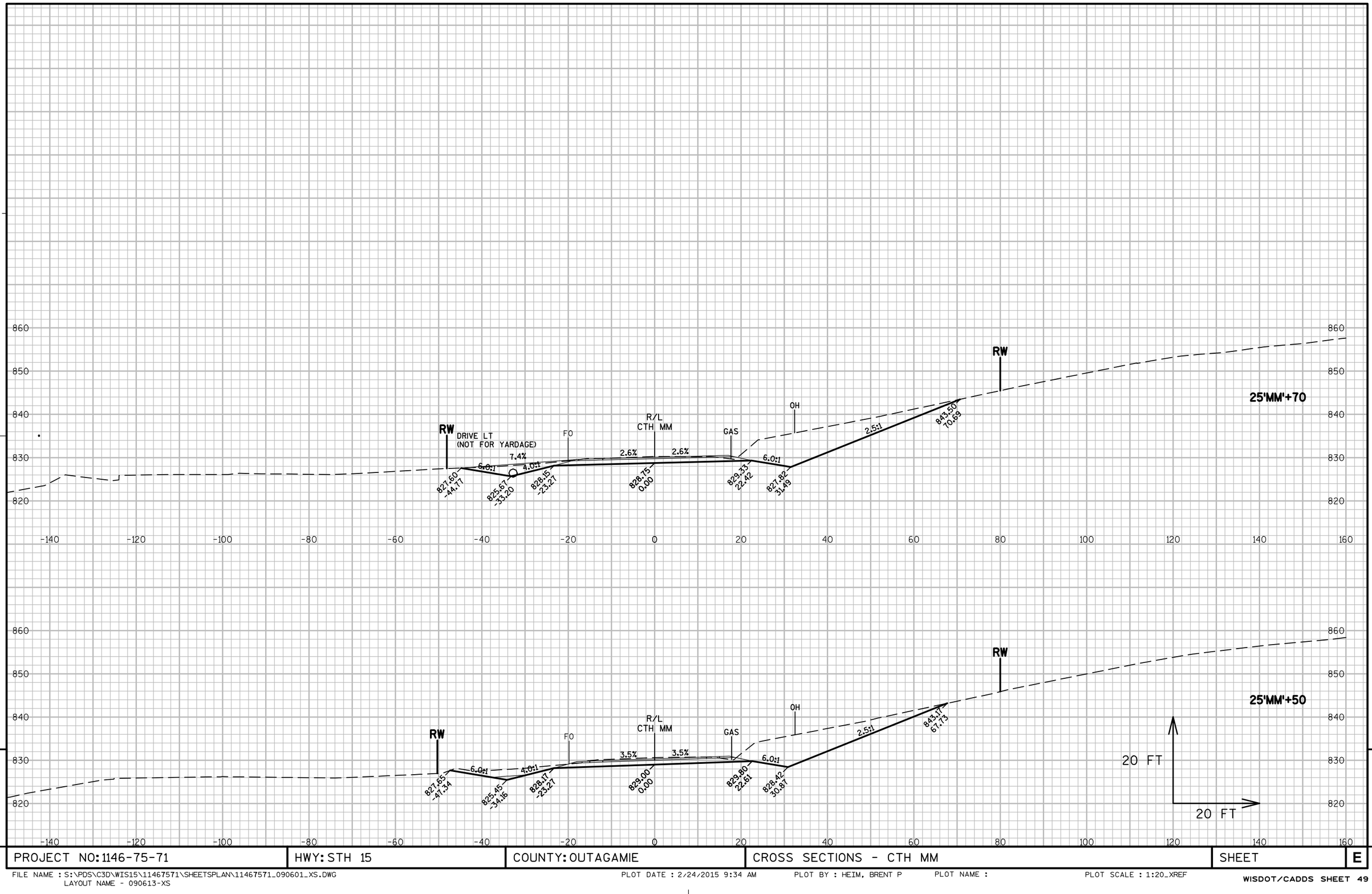
PLOT DATE : 2/24/2015 9:34 AM PLOT BY : HEIM, BRENT P PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET	E

FILE NAME : S:\PDS\C3D\WIS15\11467571\SHEETSPLAN\11467571_090601_XS.DWG
LAYOUT NAME - 090612-XS

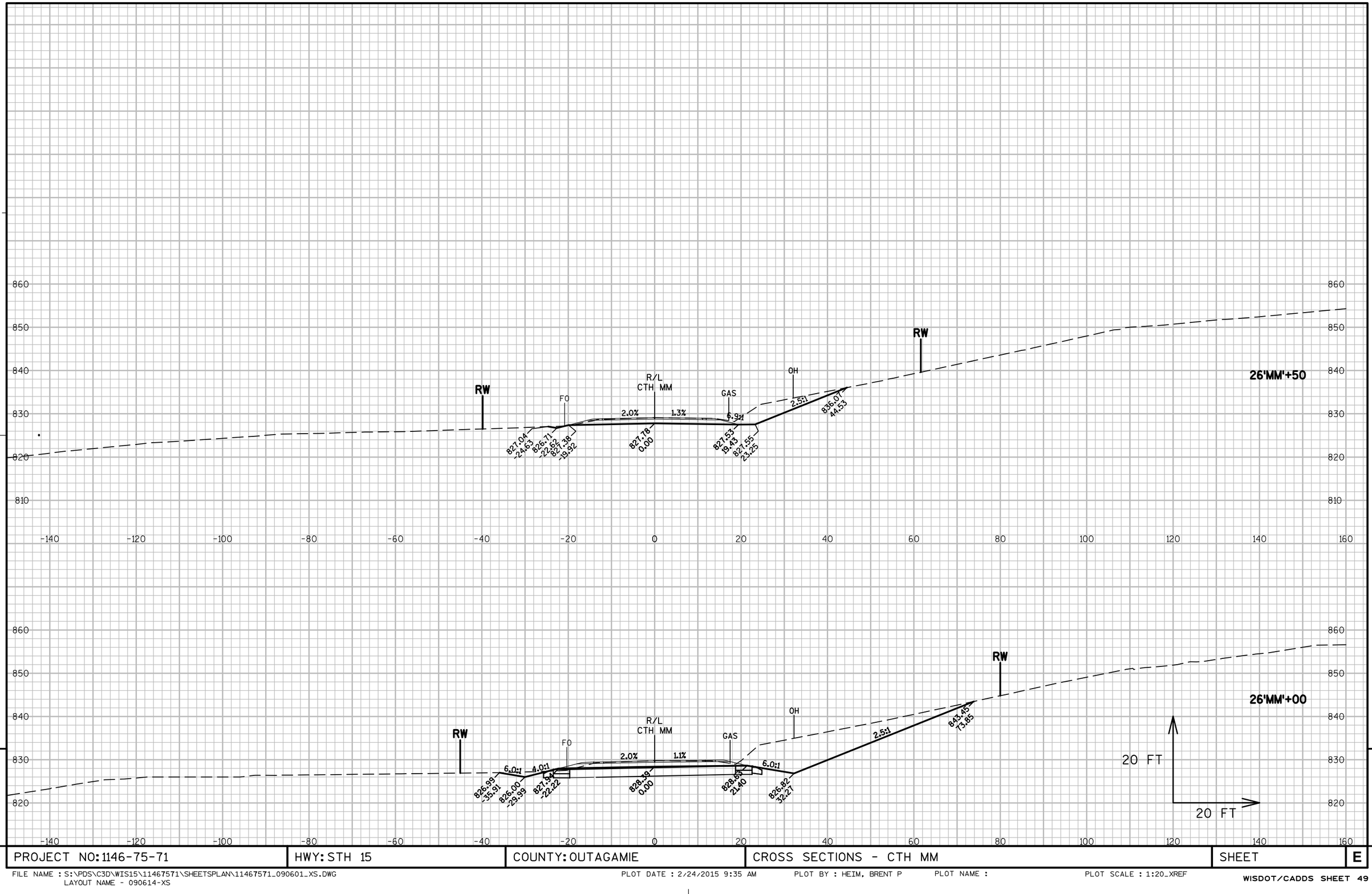
PLOT DATE : 2/24/2015 9:34 AM PLOT BY : HEIM, BRENT P PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET	E

FILE NAME : S:\PDS\C3D\WIS15\11467571\SHEETSPLAN\11467571_090601_XS.DWG
LAYOUT NAME - 090613-XS

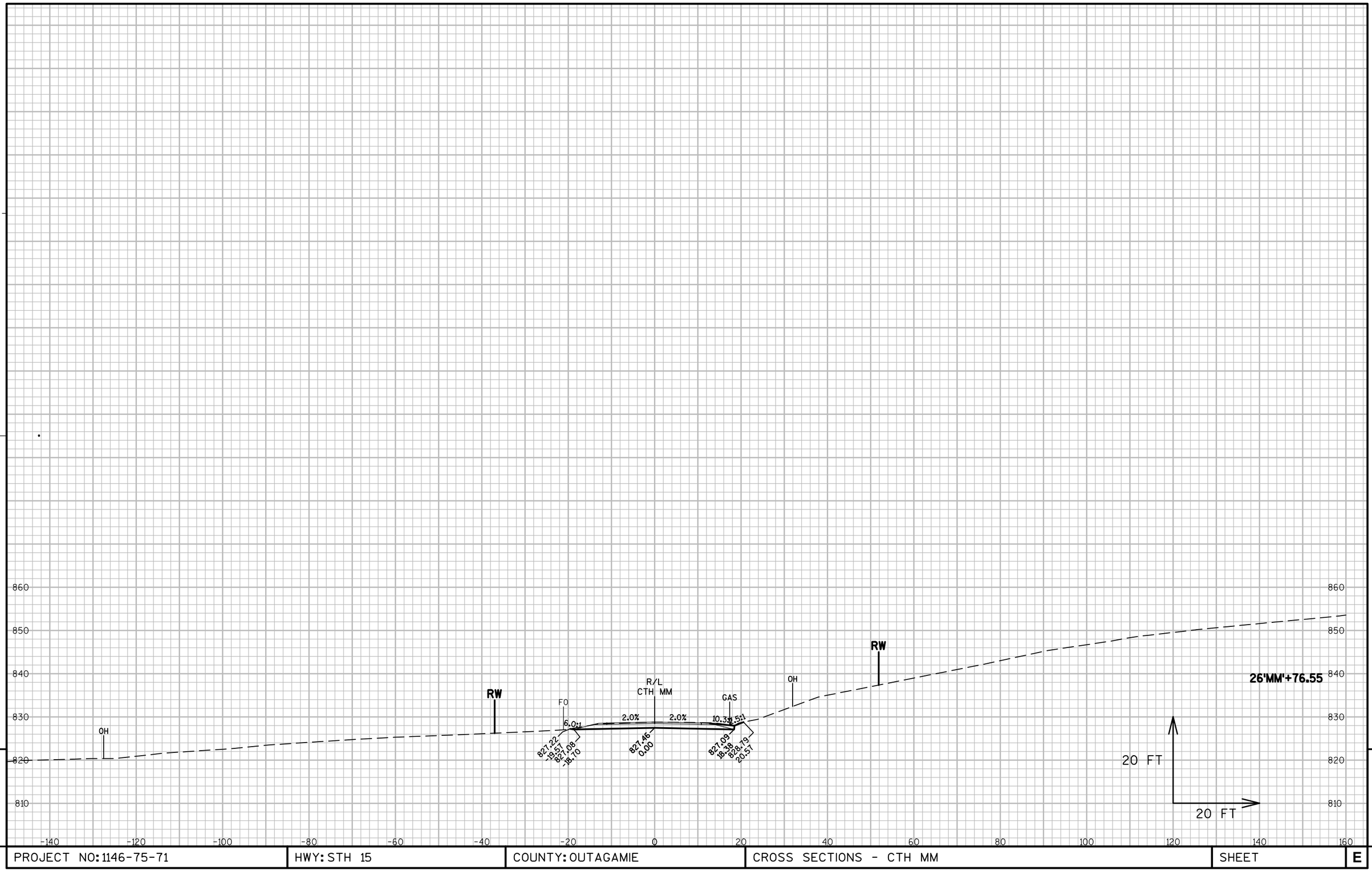
PLOT DATE : 2/24/2015 9:34 AM PLOT BY : HEIM, BRENT P PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET	E

FILE NAME : S:\PDS\C3D\WIS15\11467571\SHEETSPLAN\11467571_090601_XS.DWG
LAYOUT NAME - 090614-XS

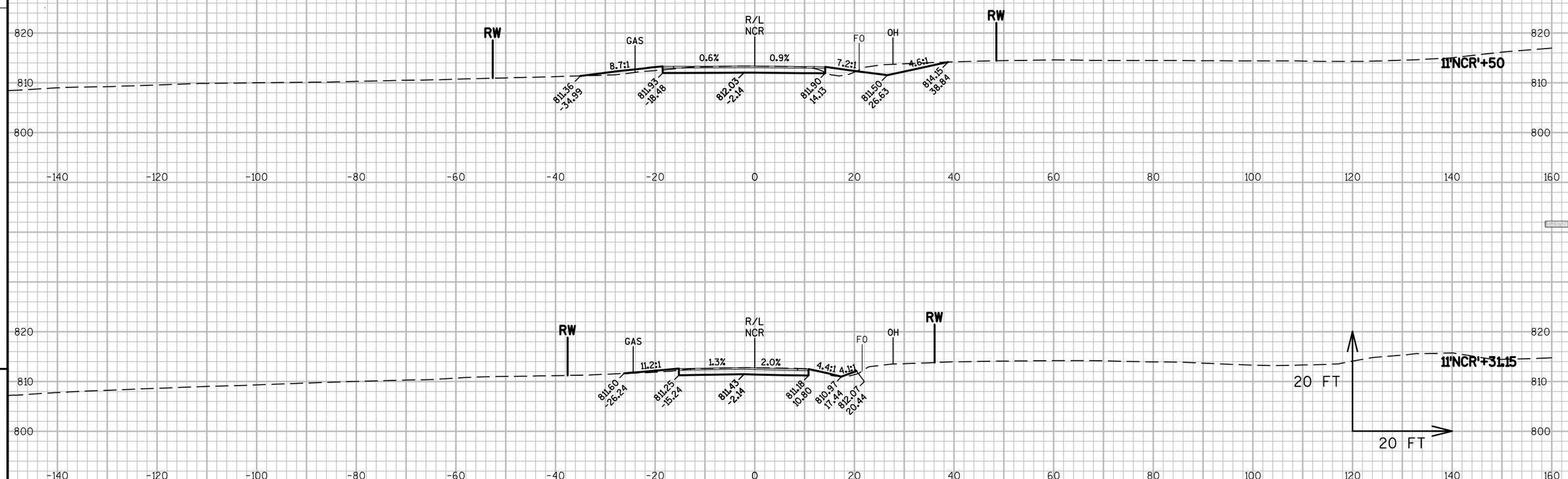
PLOT DATE : 2/24/2015 9:35 AM PLOT BY : HEIM, BRENT P PLOT NAME : PLOT SCALE : 1:20_XREF



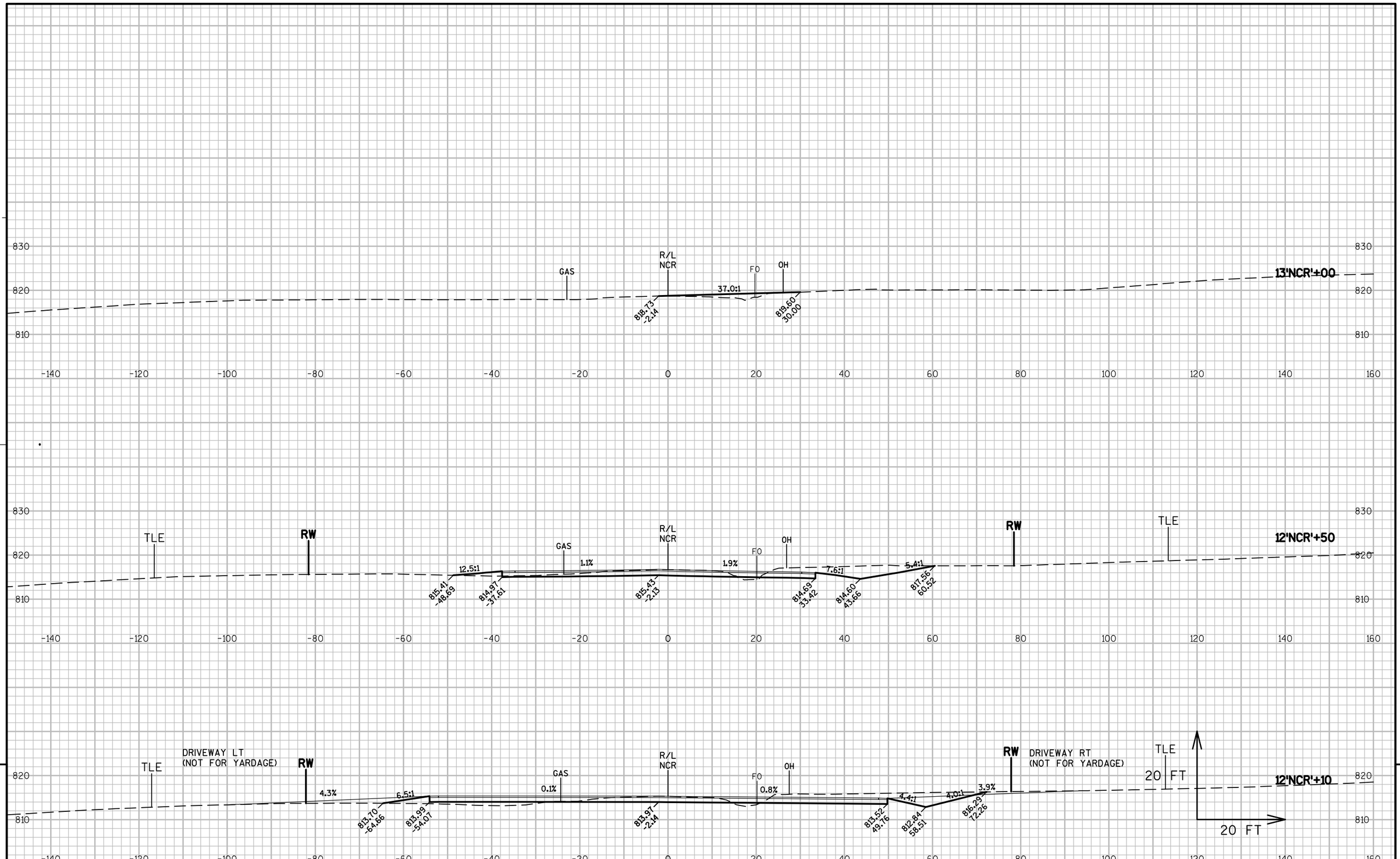
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - CTH MM	SHEET	E

FILE NAME : S:\PDS\C3D\WIS15\11467571\SHEETSPLAN\11467571_090601_XS.DWG
LAYOUT NAME - 090615-XS

PLOT DATE : 2/24/2015 9:35 AM PLOT BY : HEIM, BRENT P PLOT NAME : PLOT SCALE : 1:20_XREF

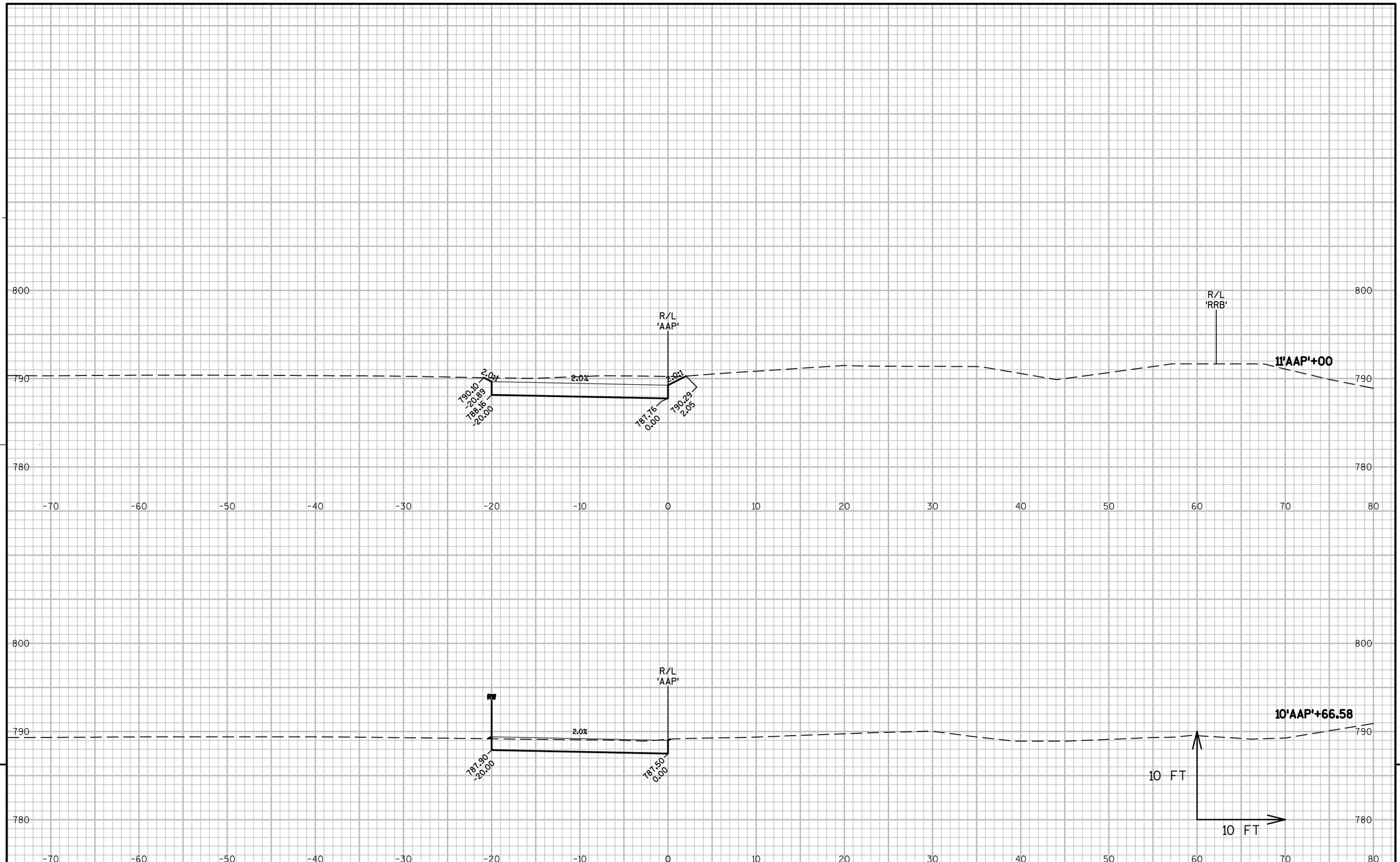


PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - N. CREST ST.	SHEET	E



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - N. CREST ST.	SHEET	E

FILE NAME : S:\PDS\C3D\WIS15\11467571\SHEETSPLAN\11467571_090701_XS.DWG
1146-75-71 1078 PLANS - 090702-XS
PLOT DATE : 2/24/2015 9:46 AM PLOT BY : HEIM, BRENT P PLOT NAME : PLOT SCALE : 1:20_XREF



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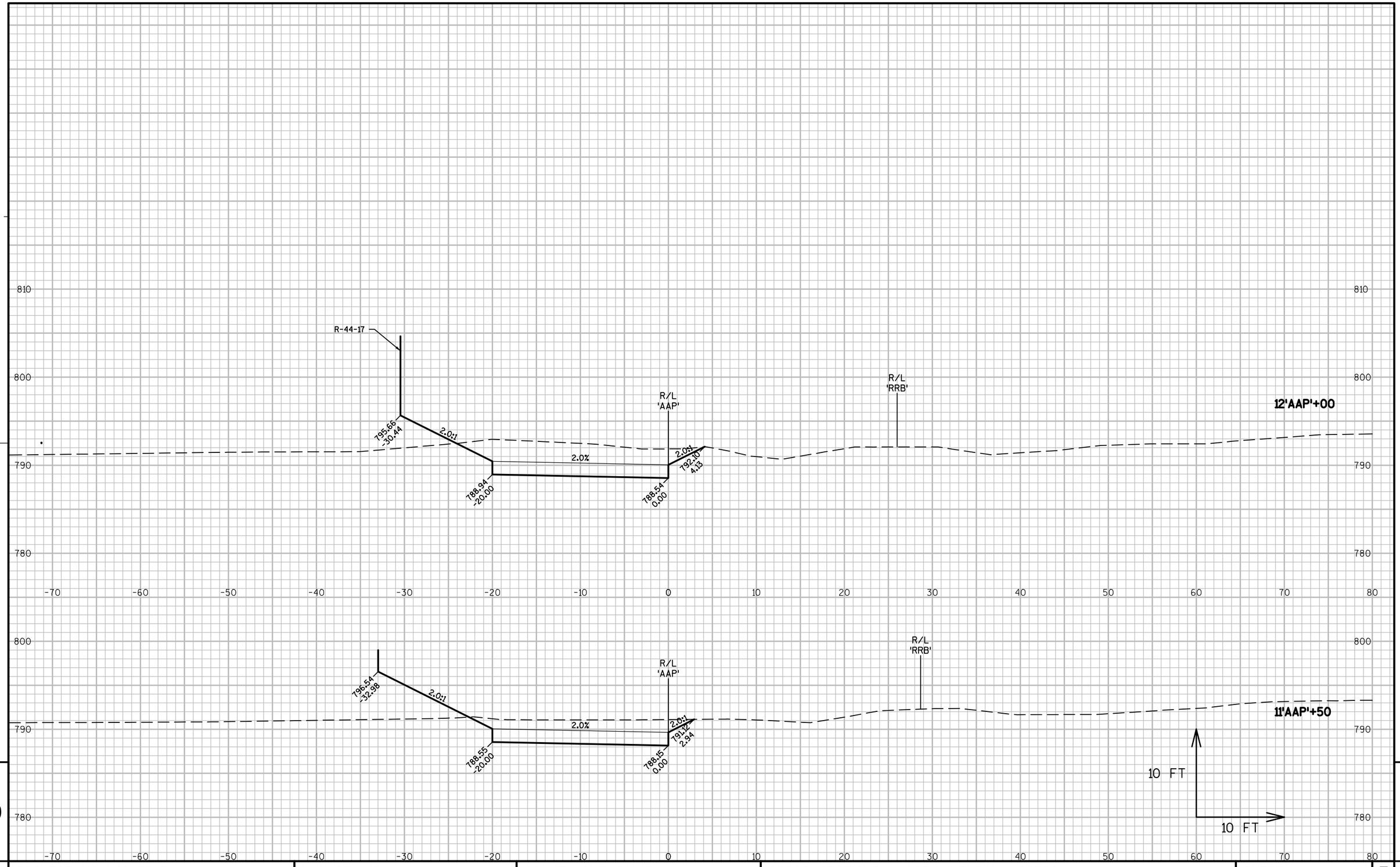
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090901_XS_02_AGRICULTURE

PLOT DATE : 10/25/2017 8:26 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF



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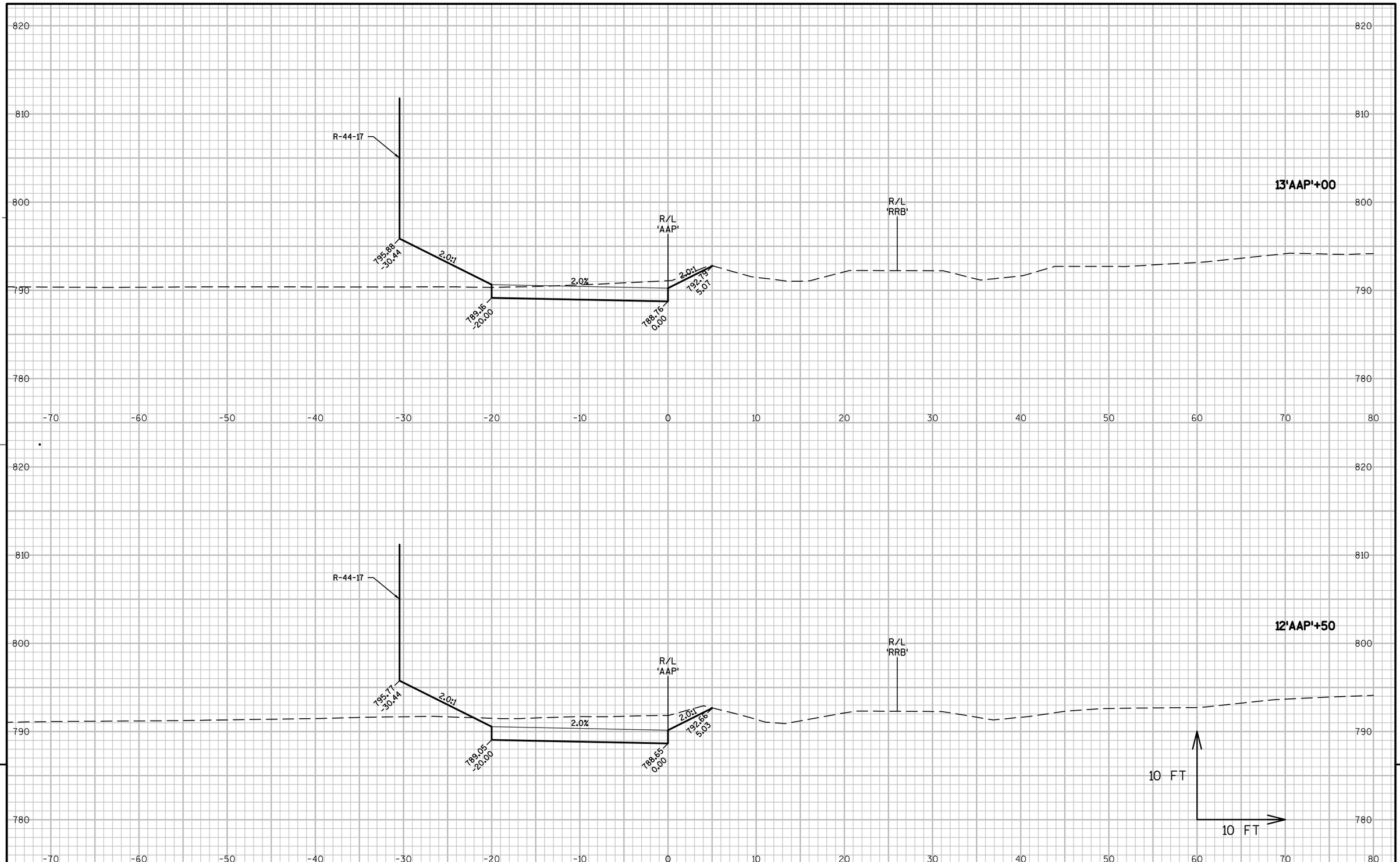
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090902_XS_02_AGRICULTURE

PLOT DATE : 10/25/2017 8:26 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF



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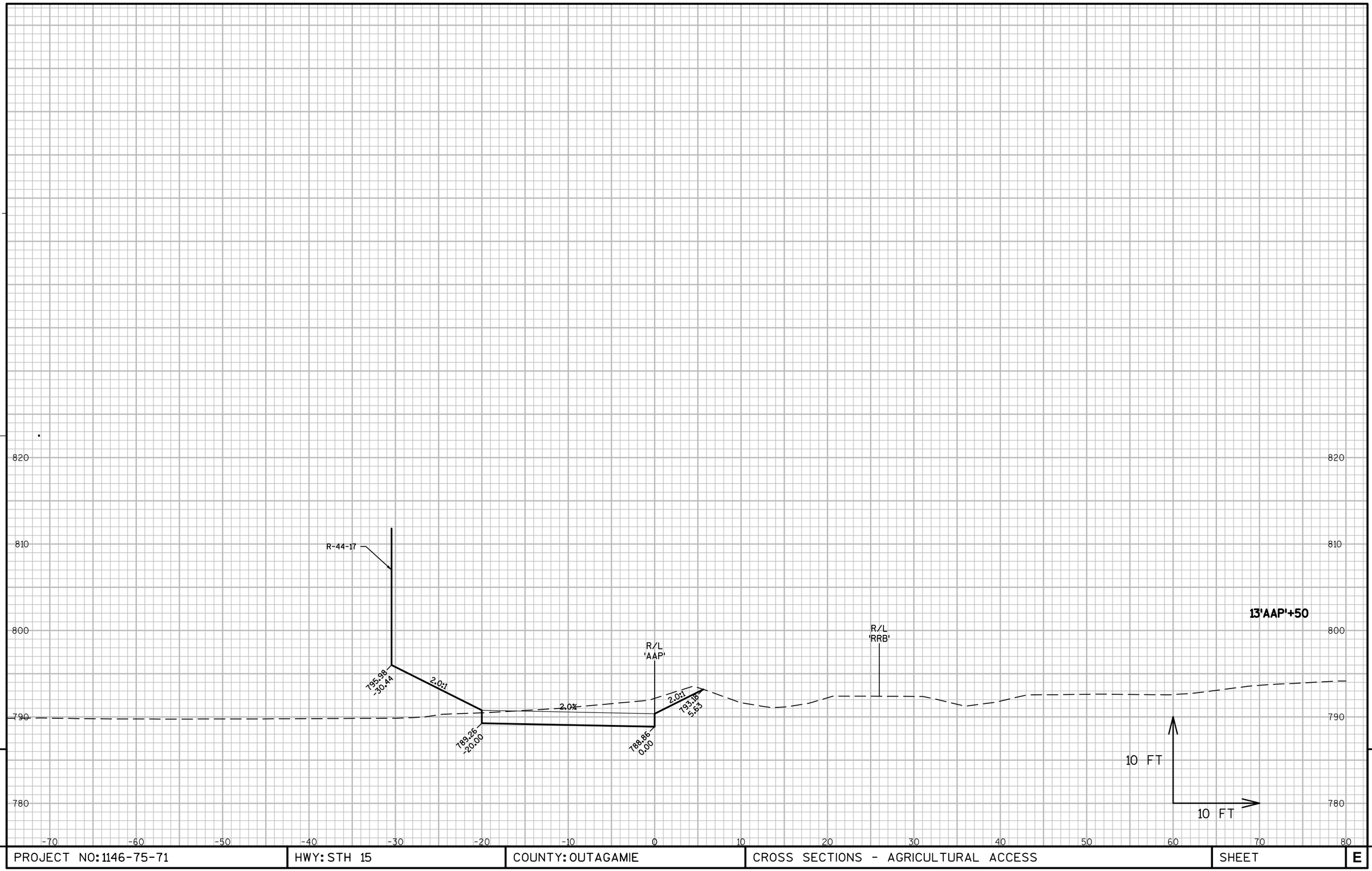
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090903_XS_02_AGRICULTURE

PLOT DATE : 10/25/2017 8:26 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF



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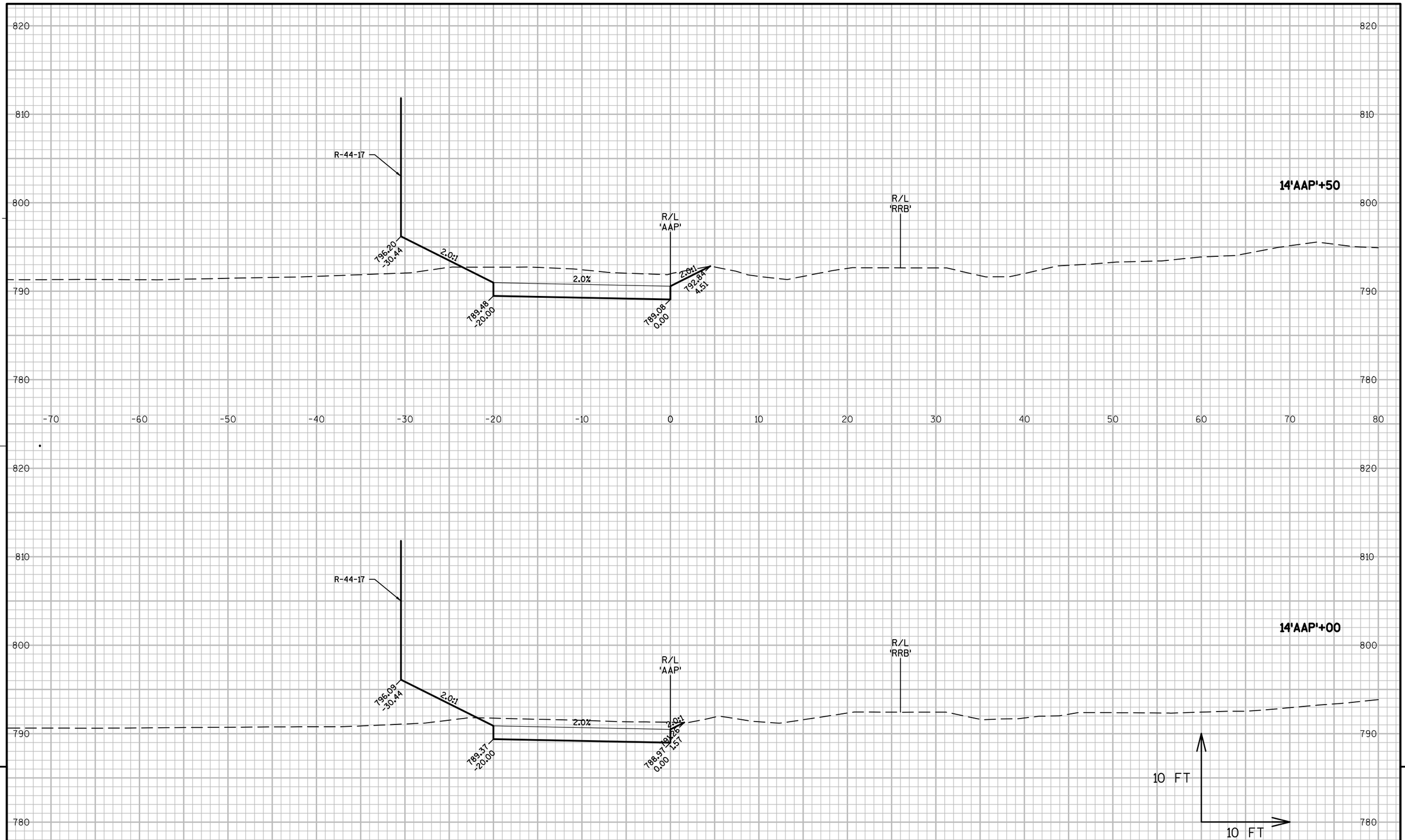
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090904_XS_02_AGRICULTURE

PLOT DATE : 10/25/2017 8:26 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF



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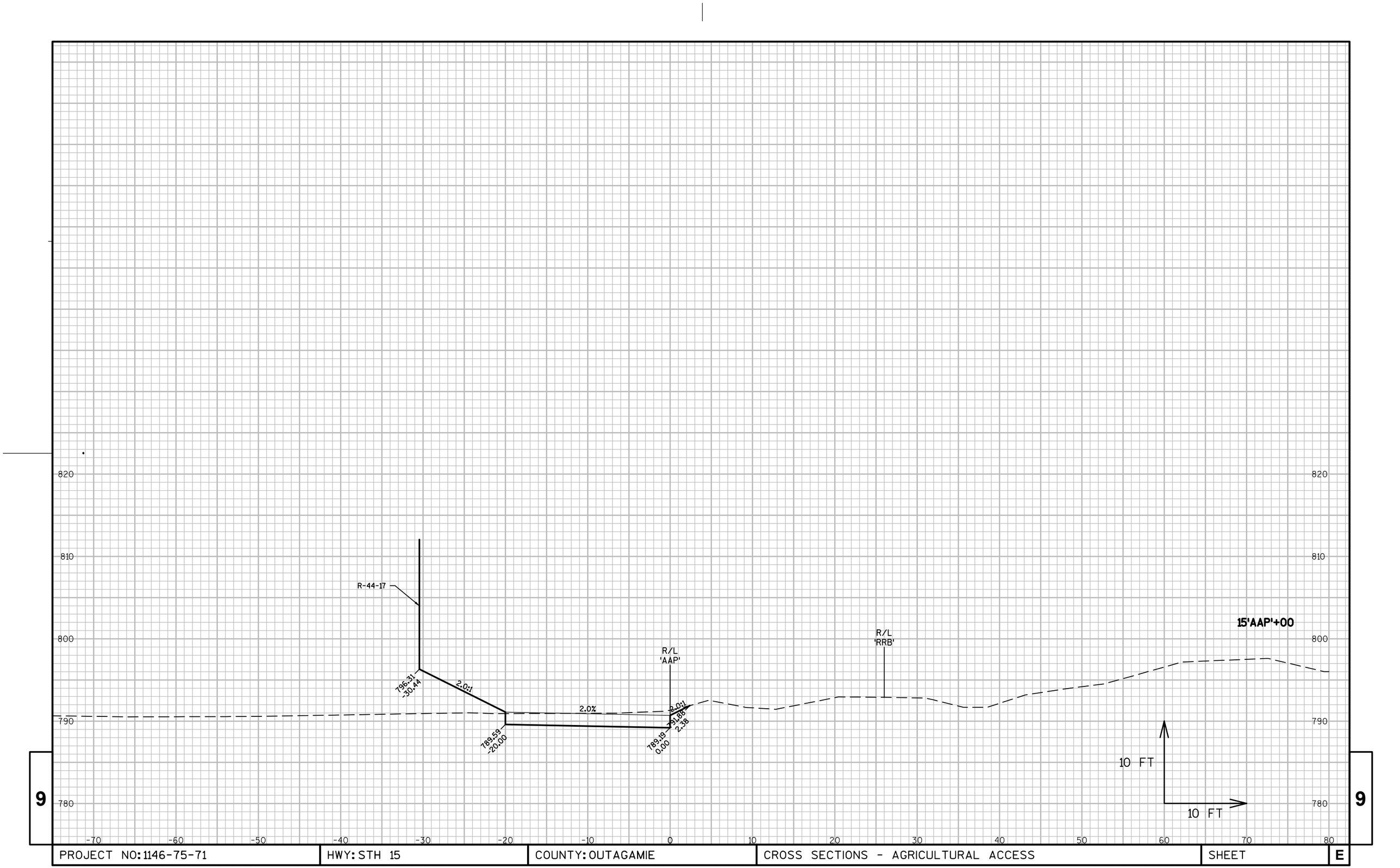
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090905_XS_02_AGRICULTURE

PLOT DATE : 10/25/2017 8:26 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF



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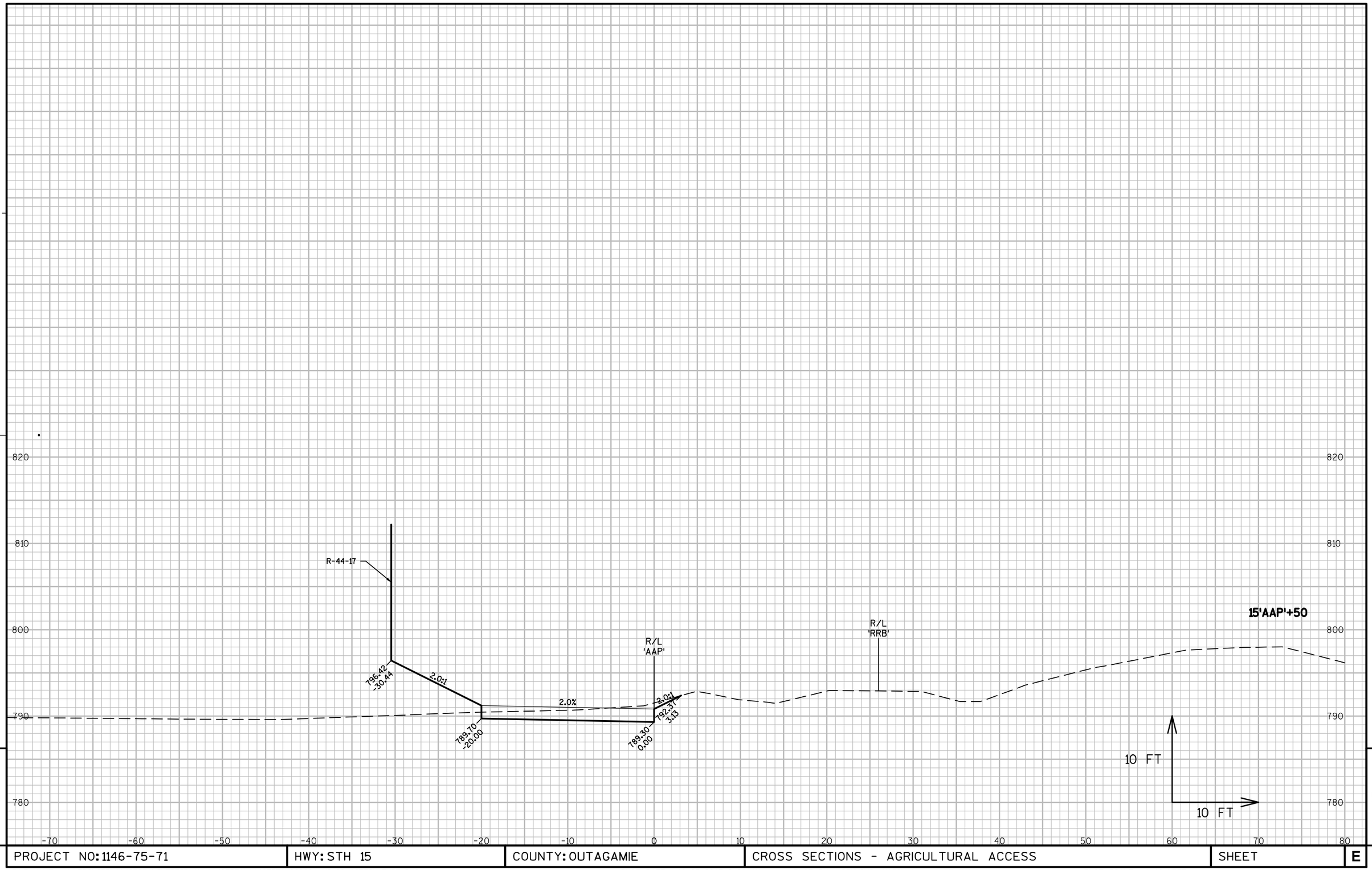
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090906_XS_02_AGRICULTURE

PLOT DATE : 10/25/2017 8:26 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF



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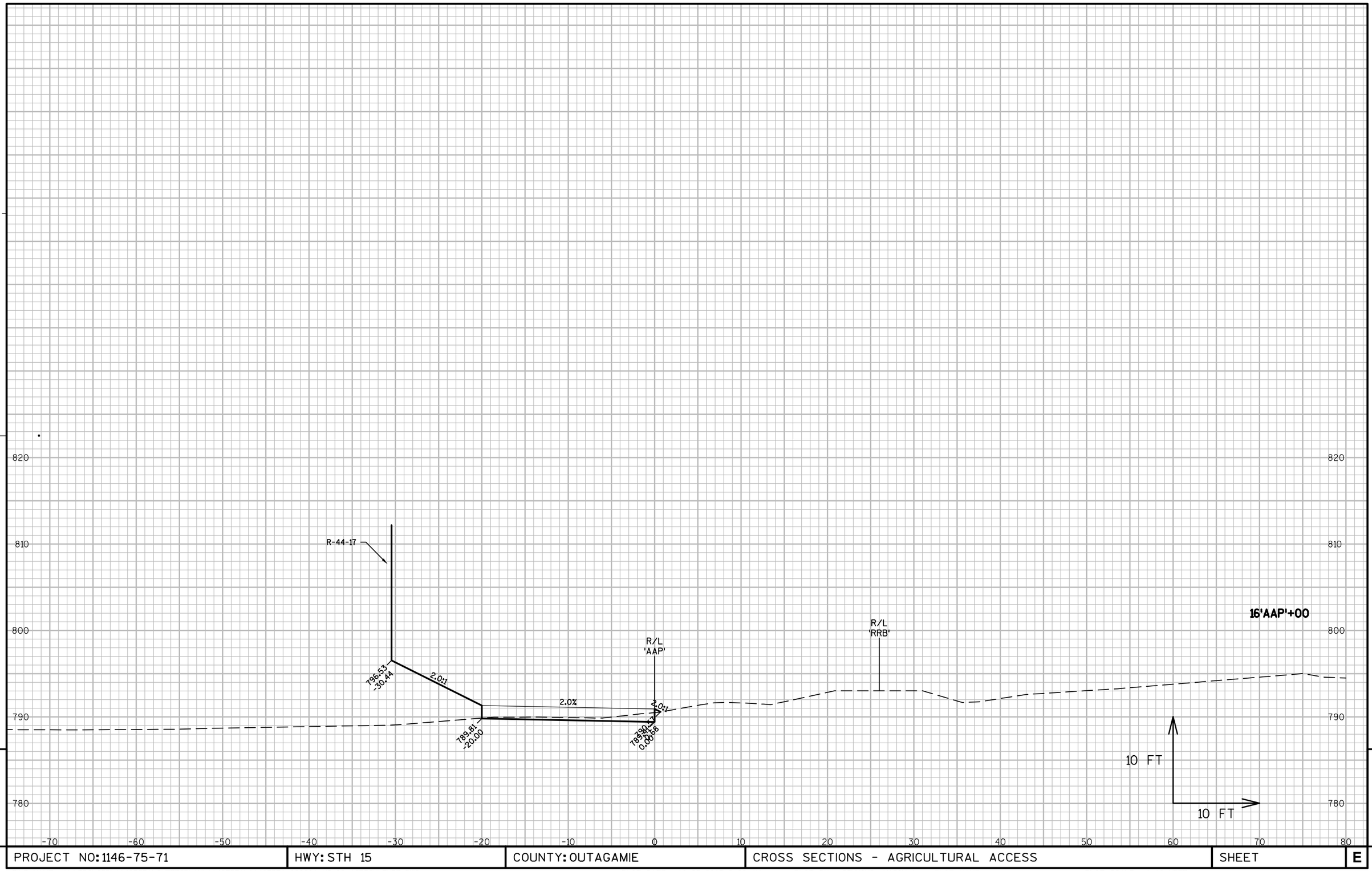
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090907_XS_02_AGRICULTURE

PLOT DATE : 10/25/2017 8:26 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF



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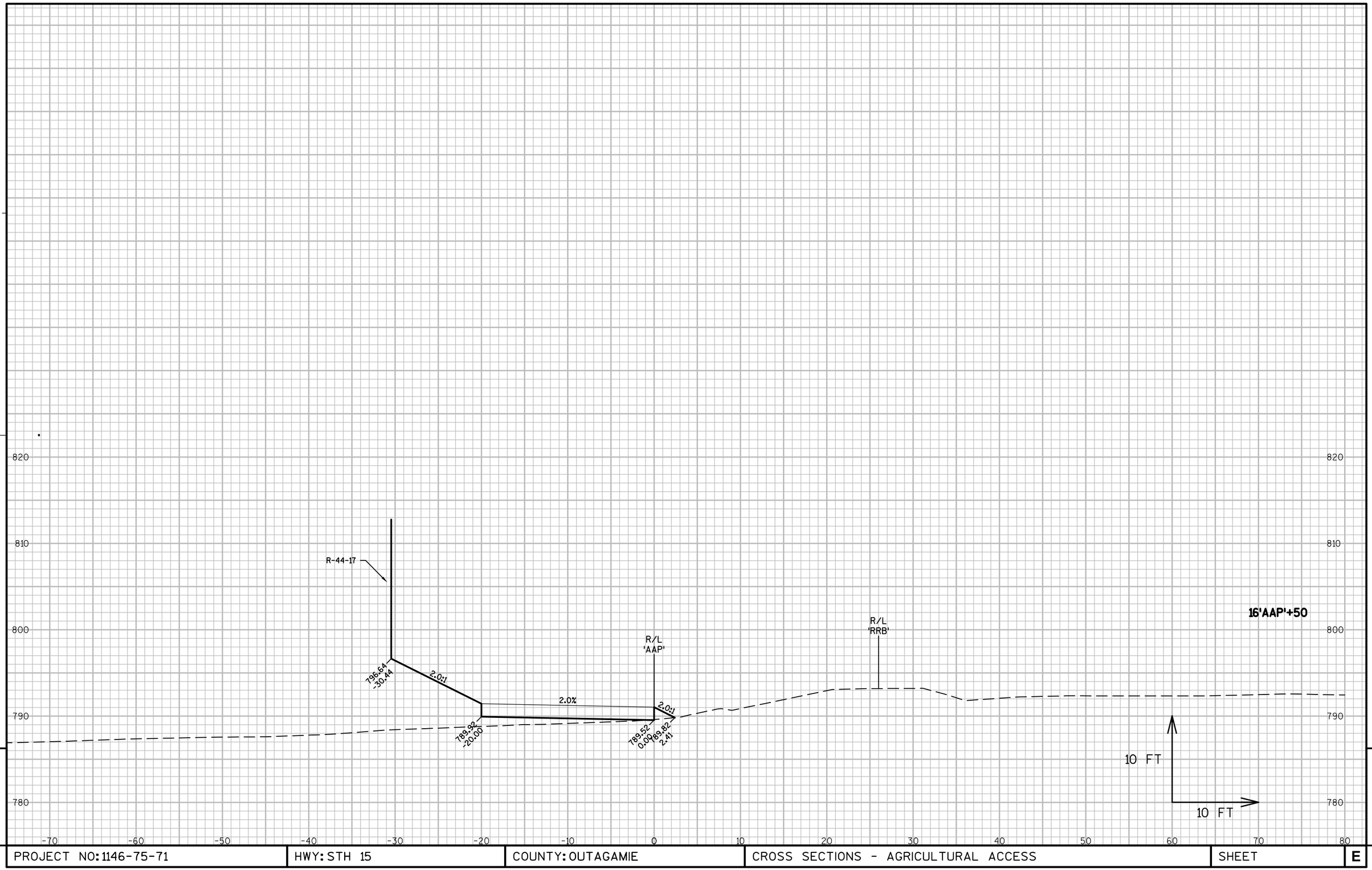
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090908_XS_02_AGRICULTURE

PLOT DATE : 10/25/2017 8:26 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF



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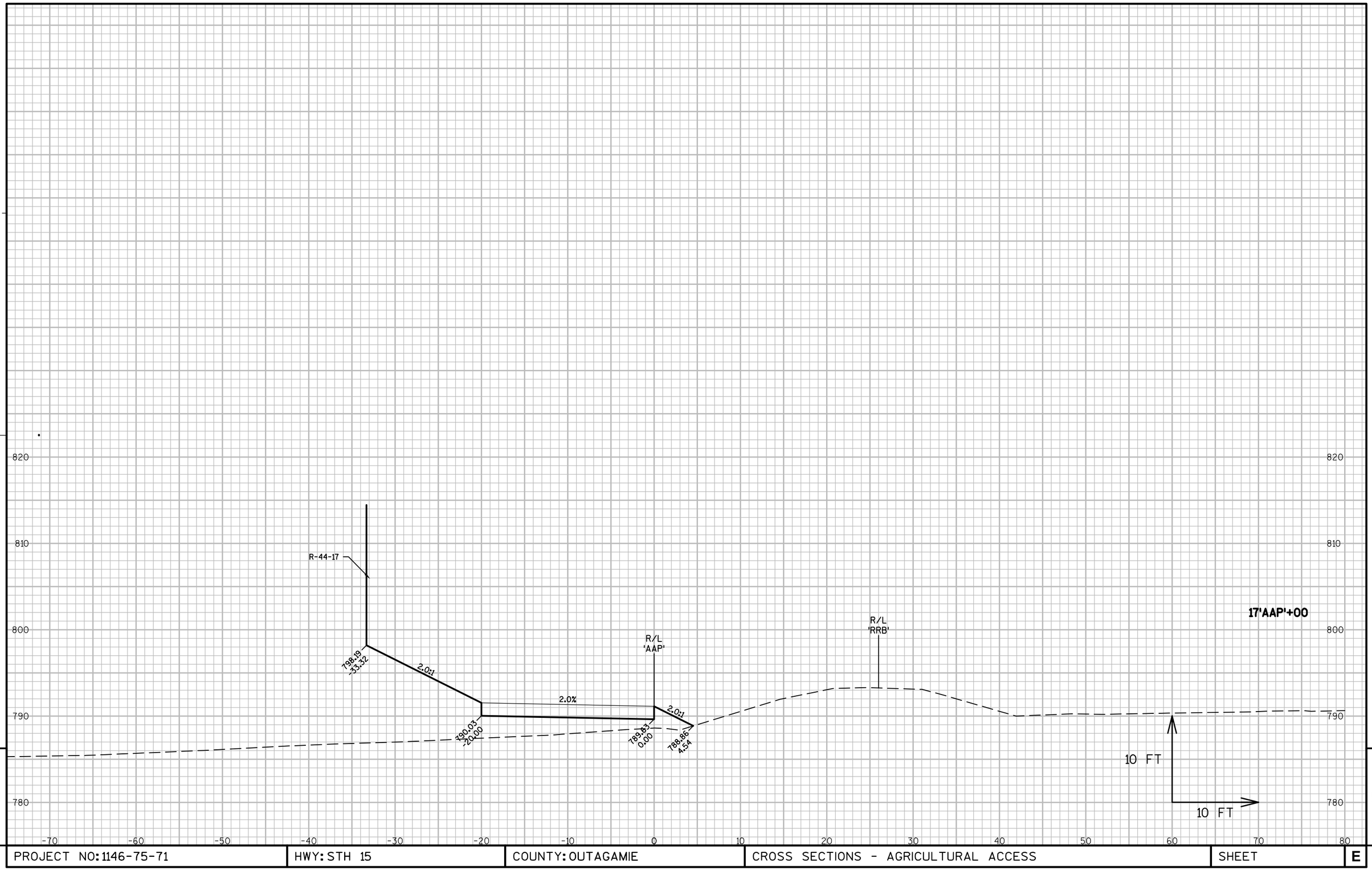
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090909_XS_02_AGRICULTURE

PLOT DATE : 10/25/2017 8:26 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF



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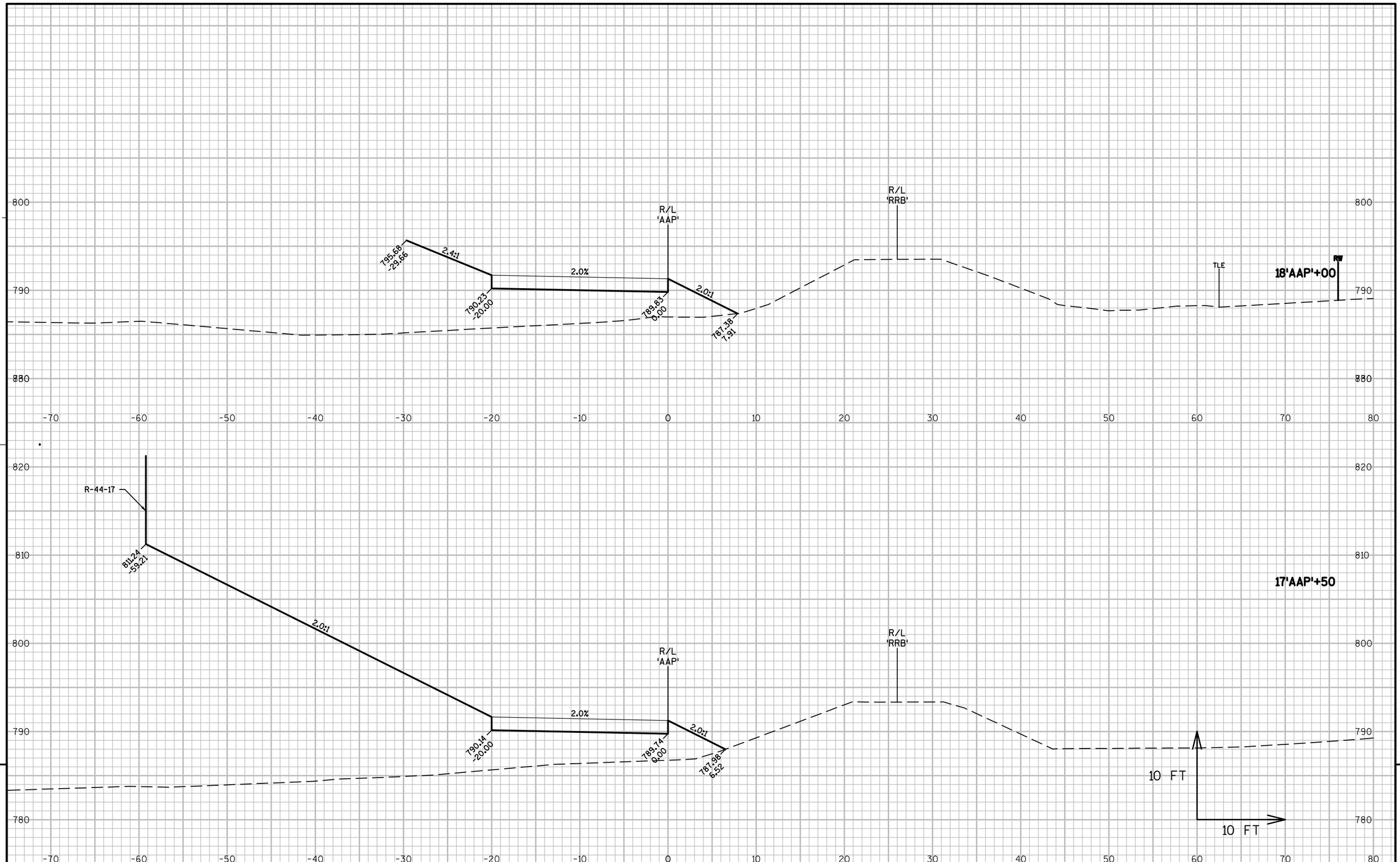
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090910_XS_02_AGRICULTURE
PLOT DATE : 10/25/2017 8:26 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF



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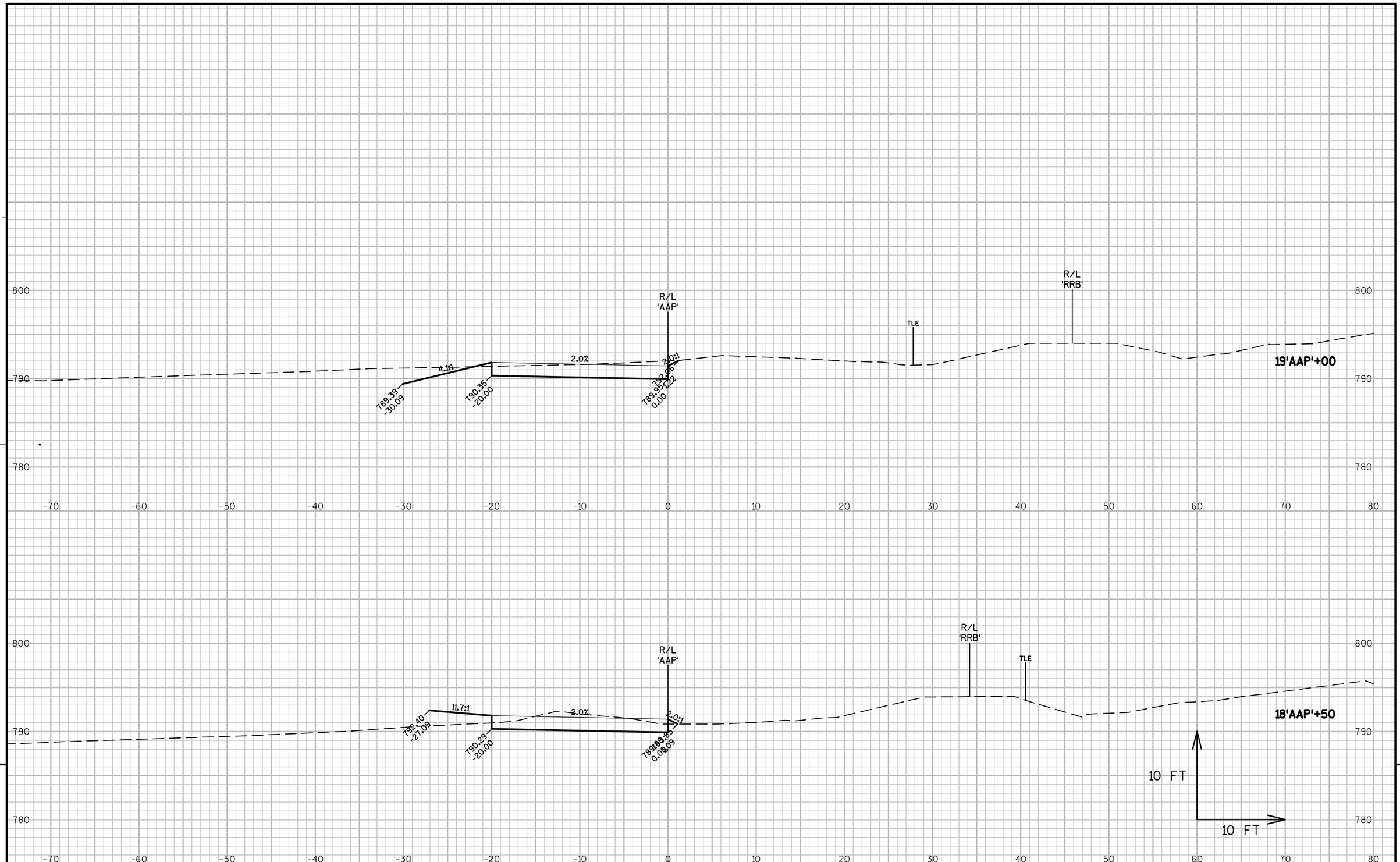
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090911_XS_02_AGRICULTURE

PLOT DATE : 10/25/2017 8:26 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF



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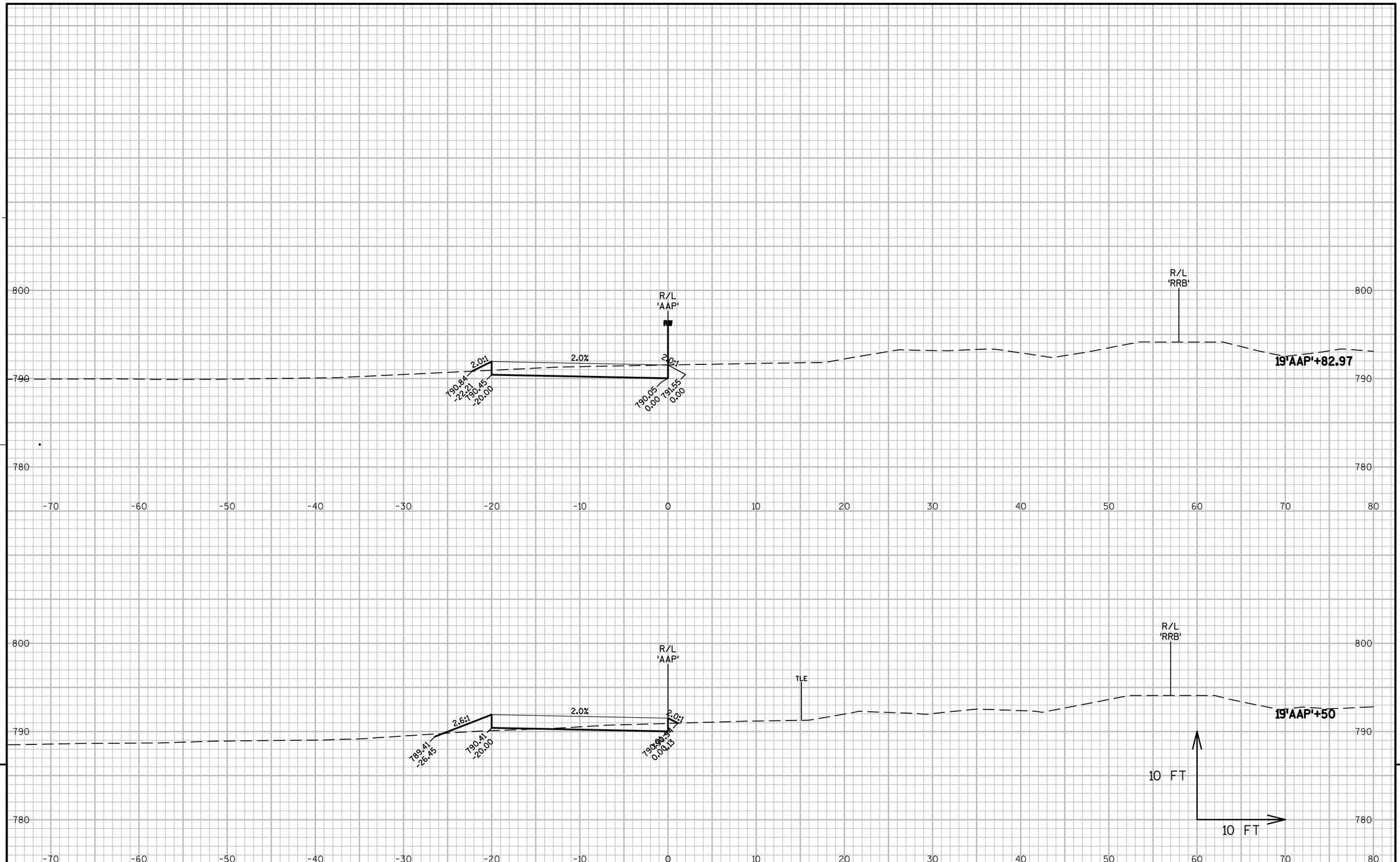
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET	E

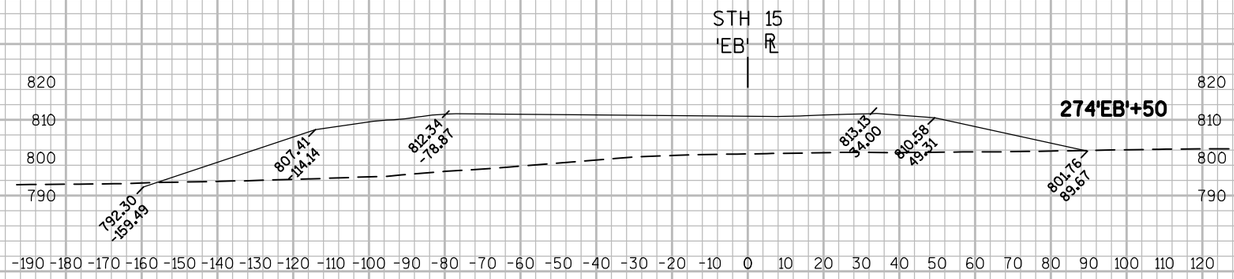
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090912_XS_02_AGRICULTURE

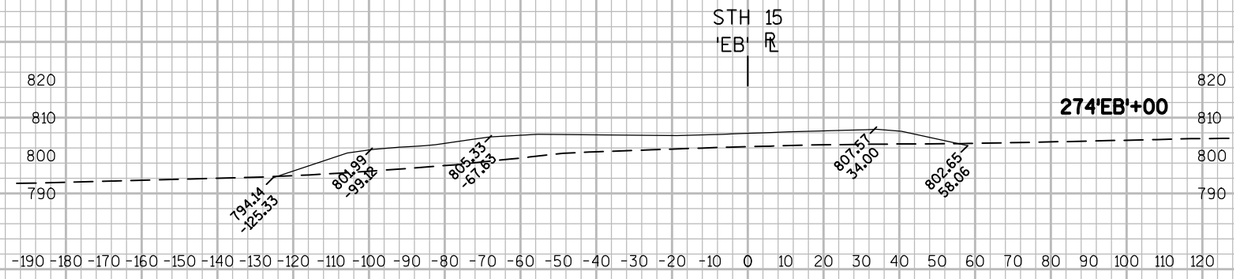
PLOT DATE : 10/25/2017 8:26 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF

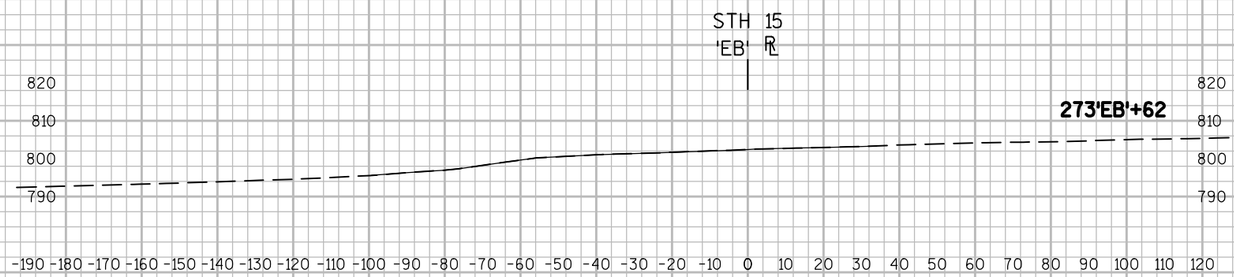


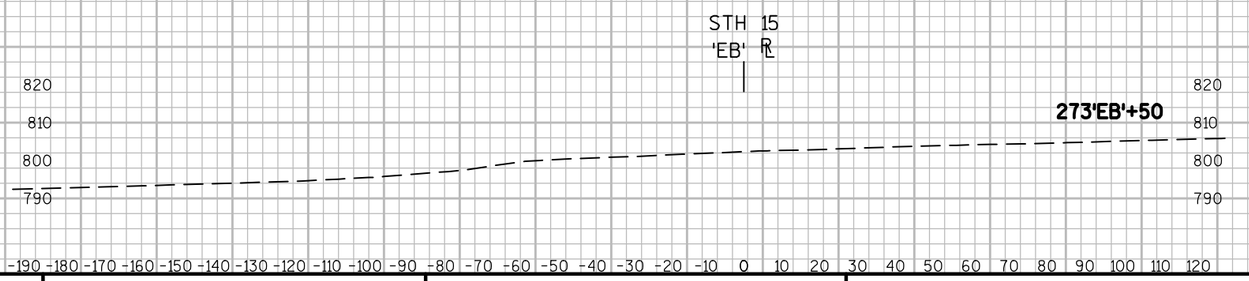
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - AGRICULTURAL ACCESS	SHEET	E

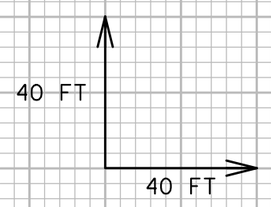
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090901_XS_02_AGRICULTURE.DWG
LAYOUT NAME - 090913_XS_02_AGRICULTURE
PLOT DATE : 10/25/2017 8:26 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1:10_XREF











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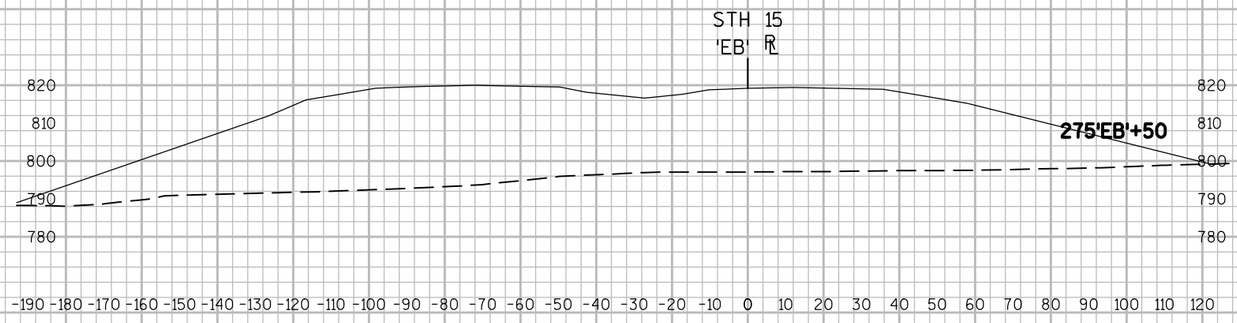
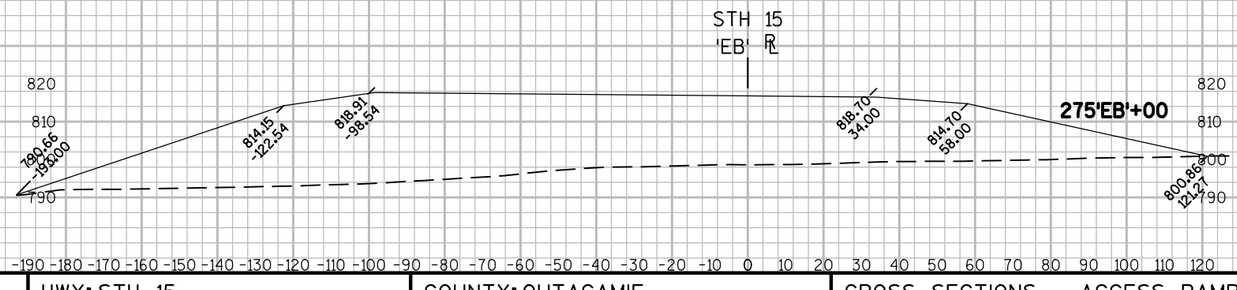
9

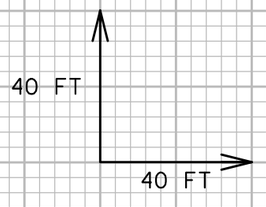
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - ACCESS RAMP	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090910_XS_TEMPORARY RAMP.DWG
LAYOUT NAME - 090910_XS

PLOT DATE : 8/3/2016 11:27 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:40 FT







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9

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CROSS SECTIONS - ACCESS RAMP	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_090910_XS_TEMPORARY RAMP.DWG
LAYOUT NAME - 090911_XS

PLOT DATE : 8/3/2016 11:27 AM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISCONSIN DEPARTMENT OF TRANSPORTATION

EPlans Preliminary Sheet Numbering Tool

This sheet: ftp://ftp.dot.state.wi.us/transp/roads/eplans/prelim_sheet_numbers.pdf

Notes

- Acrobat 5 or higher is required to use this tool.
- The Bureau of Highway Construction places sheet numbers in the final plan.
- This sheet is for placing preliminary sheet numbers with a “PRE_" prefix.
- If a plan contains multiple projects, number each plan individually.
- Leave this sheet in the plan.

TO ADD PRELIMINARY SHEET NUMBERS

1. Insert this sheet at the end of the plan

a. With the plan open in Acrobat, select Document > Insert Pages.
b. In the Select File to Insert dialog box, select this file (prelim_sheet_numbers.pdf)
c. In the Insert dialog box, choose After for Location and Last page for Page.
d. Click OK.

2. Click the Place Preliminary Sheet Numbers button

a. Go to the last sheet of the plan.
b. Click the Place Preliminary Sheet Numbers button once.
(The preliminary sheet number appears in the bottom right corner of the sheets.
The number should match te page number in the Acrobat Status bar).

3. Re-Save the PDF

a. Select File > Save As and save the PDF.

Place Preliminary Sheet Numbers

TO REMOVE PRELIMINARY SHEET NUMBERS

Remove