WKE

DECEMBER 2019

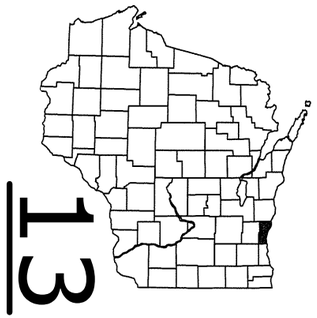
PROJECT ID: 2310-14-70
WITH: 2310-17-70

COUNTY: OZAUKEE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Includes Erosion Control)
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 = 244



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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

JACKSON - GRAFTON
CTH Y INTERSECTION
STH 60
OZAUKEE COUNTY

STATE PROJECT NUMBER
2310-14-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2310-14-70	WISC 2019739	1

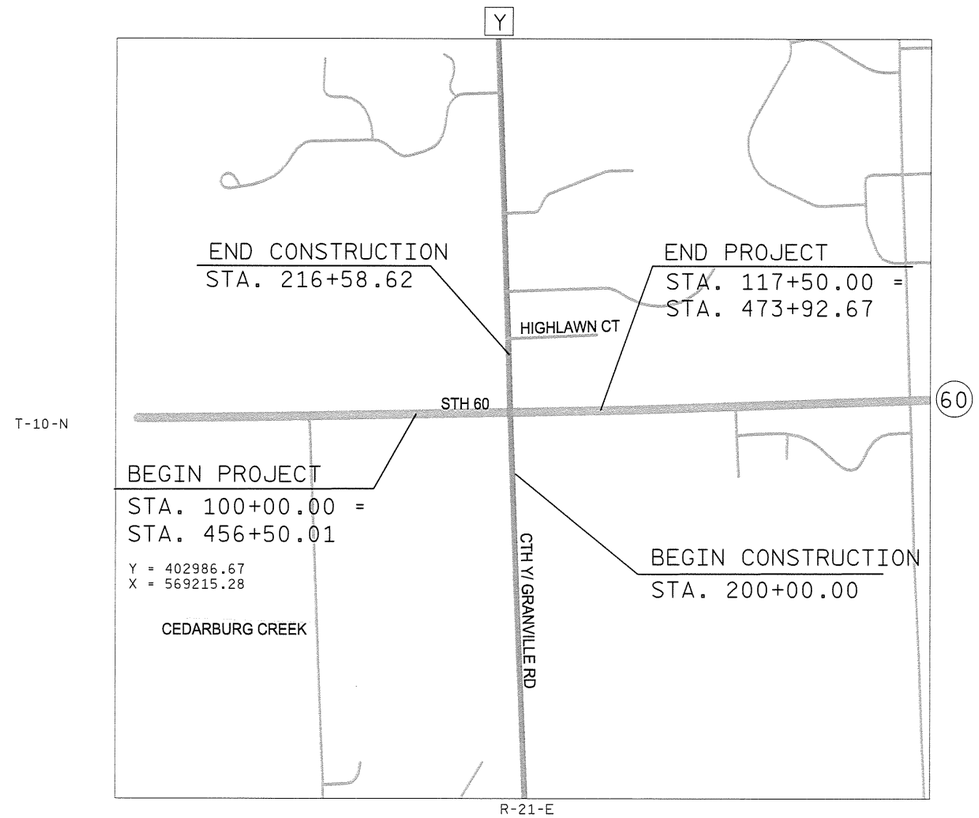
DESIGN DESIGNATION		STH 60	CTH Y (NORTH)	CTH Y (SOUTH)
A.A.D.T.	2020	= 9,800	1,600	3,750
A.A.D.T.	2040	= 12,000	1,950	4,600
D.H.V.	2040	= 1,320	N/A	N/A
D.D.		= 60/40	N/A	N/A
T.		= 5.2%	N/A	N/A
DESIGN SPEED		= 60 MPH	60 MPH	60 MPH
ESALS		= 1,400,000	N/A	N/A

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



LAYOUT
SCALE 0 1000 FT

TOTAL NET LENGTH OF CENTERLINE = 0.331 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, OZAUKEE COUNTY, NAD83 (2007), IN U.S. SURVEY FEET.

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

ORIGINAL PLANS PREPARED BY
emcs.inc

WISCONSIN
KATIE L. NAKLES
E-43985-6
MILWAUKEE WI
PROFESSIONAL ENGINEER

7/29/19 (Date) Katie L Nakles (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	EMCS, INC
Designer	EMCS, INC
Project Manager	NGUYEN LY
Regional Examiner	STEVE CHOJNACKI
Regional Supervisor	BENEDICT ERUCHALU

APPROVED FOR THE DEPARTMENT
DATE: 7/31/2019 (Signature)

E

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EMAIL: nicole.smullen@we-energies.com

WE ENERGIES - GAS
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EMAIL: jedgren@co.ozaukee.wi.us

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DIRECTOR OF PUBLIC WORKS
1293 WASHINGTON AVENUE
CEDARBURG, WI 53012
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PHONE: (262) 953-4295
EMAIL: jwashburn@sewrpc.org

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
PAVING DETAILS
EROSION CONTROL
STORM SEWER
PAVEMENT MARKING
LIGHTING
EXISTING AND PERMANENT SIGNING
PAVEMENT MARKING
TRAFFIC CONTROL
ALIGNMENT DETAIL

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

TO OBTAIN LOCATION OF
PARTICIPANTS' UNDERGROUND
FACILITIES BEFORE YOU DIG
IN WISCONSIN.

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE.

GENERAL NOTES

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

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 AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN DECEMBER OF 2013. FACILITIES INSTALLED AFTER THIS ARE ADDRESSED IN THE SPECIALS.

WHEN THE QUANTITY OF HMA PAVEMENT OR BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE.

A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING ASPHALTIC CONCRETE SURFACE.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS	NORMAL MAXIMUM SIZE GRADATION
4 LT 58-28 S 3 LT 58-28 S	6"	2" UPPER LAYER 4" LOWER LAYER	12.5 MM 19.0 MM

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE, AND MULCH/EROSION MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN (14) CALENDAR DAYS, SEED THOSE ARE AS WITH TEMPORARY SEED AND MULCH.

STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED AND MULCH.

EROSION CONTROL DEVICES ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER REQUIRED.

THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN SEPTEMBER AND DECEMBER OF 2013. FACILITIES INSTALLED AFTER THIS ARE ADDRESSED IN THE SPECIALS.

STANDARD ABBREVIATIONS

BM	BENCH MARK
C/L	OR CENTER OR CONSTRUCTION LINE
CP	CULVERT PIPE
CPCM	CULVERT PIPE CORRUGATED METAL
CPRC	CULVERT PIPE REINFORCED CONCRETE
EB	EASTBOUND
ESTR	EXISTING SIGN TO REMAIN
FE	FIELD ENTRANCE
M/L	MATCHLINE
NB	NORTHBOUND
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
SB	SOUTHBOUND
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
TLE	TEMPORARY LIMITED EASEMENT
WB	WESTBOUND

END CONSTRUCTION
STA. 216+58.62

N

BEGIN PROJECT, STA. 100+00.00
MATCH I.D. 2310-17-70, STA. 456+50.01

OFFSITE POND

BEGIN CONSTRUCTION
STA. 200+00.00

END PROJECT, STA. 117+50.00
MATCH I.D. 2310-17-70, STA. 473+92.67

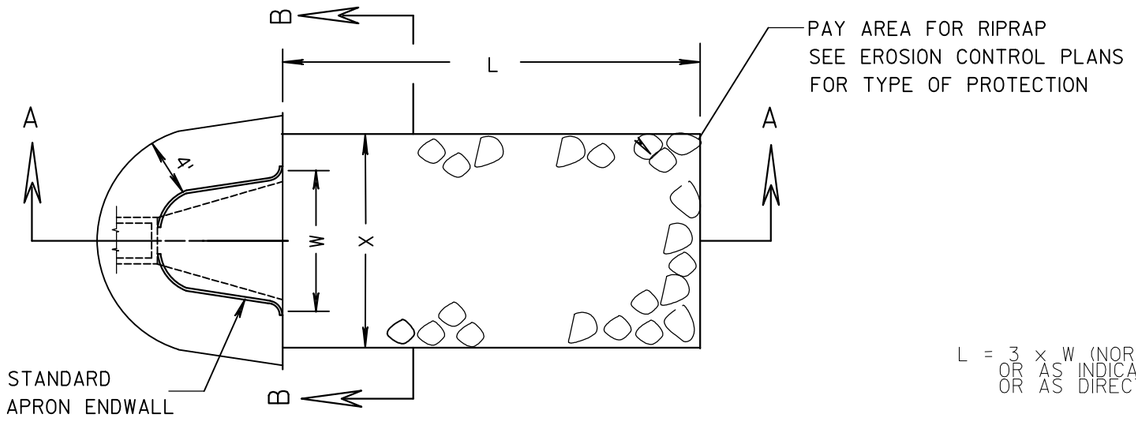
100EB 102EB 104EB 106EB 108EB 110EB 112EB 114EB 116EB 118EB

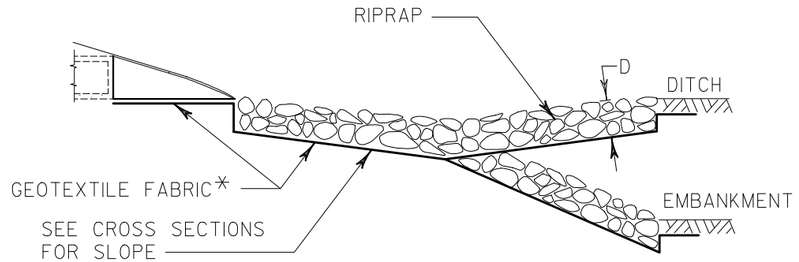
STH 60

CTH Y / GRANVILLE ROAD

200NB 202NB 204NB 206NB 208NB 210NB 212NB 214NB 216NB

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PROJECT OVERVIEW	SHEET 4	E





SECTION A-A

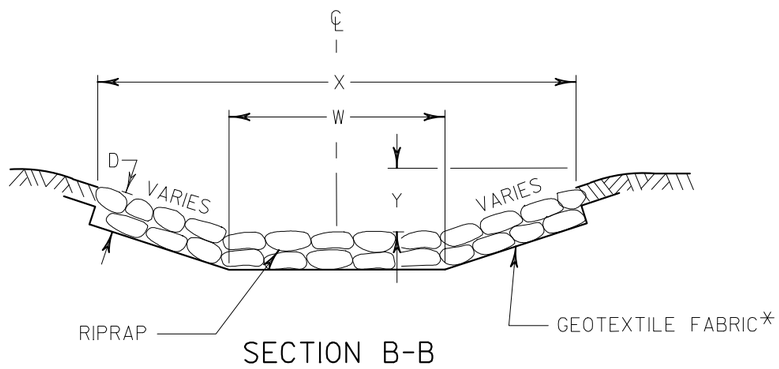
L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER

D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

X = W+4' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+6' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

Y = 0' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
6" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

* TYPE R (FOR RIPRAP LIGHT ONLY)
TYPE HR (FOR RIPRAP HEAVY AND MEDIUM ONLY)



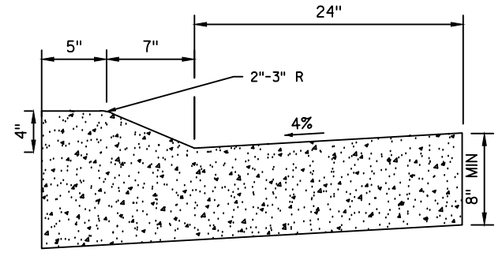
SECTION B-B

CONSTRUCTION NOTES:

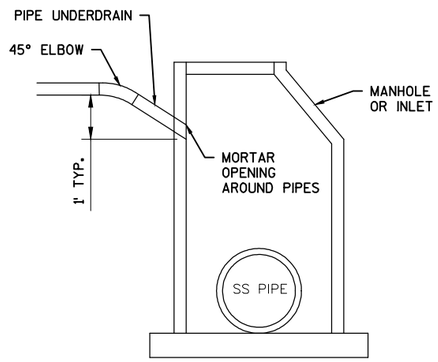
1. GEOTEXTILE FABRIC SHALL EXTEND BENEATH THE ENTIRE LENGTH OF THE APRON ENDWALL SECTION. INSTALL ON PREPAVED FOUNDATION. GRADE PRIOR TO END WALL INSTALLATION.

2. COMPLETE GEOTEXTILE FABRIC AND RIPRAP SECTION INSTALLATION PRIOR TO STORM WATER FLOW.

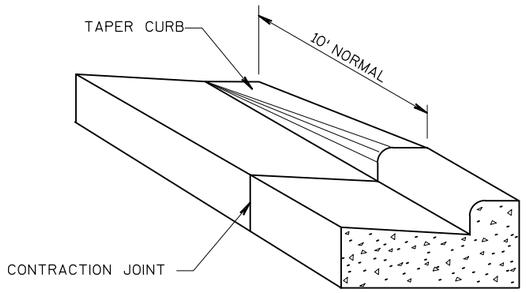
RIPRAP MEDIUM AND GEOTEXTILE DETAIL
AT APRON ENDWALL



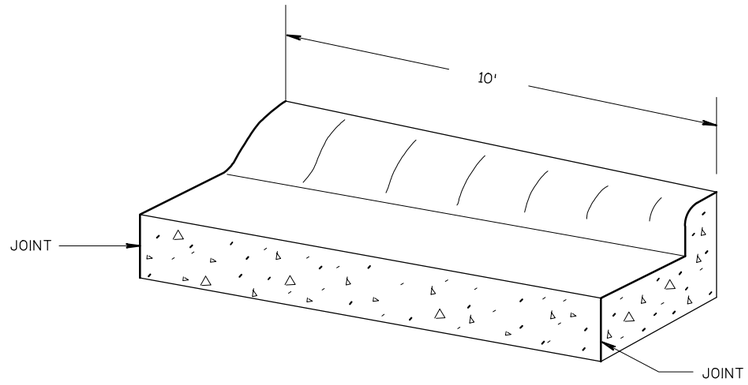
CONCRETE CURB & GUTTER 4-INCH
SLOPED 36-INCH TYPE D MODIFIED



PIPE UNDERDRAIN CONNECTION
TO MANHOLES AND INLETS

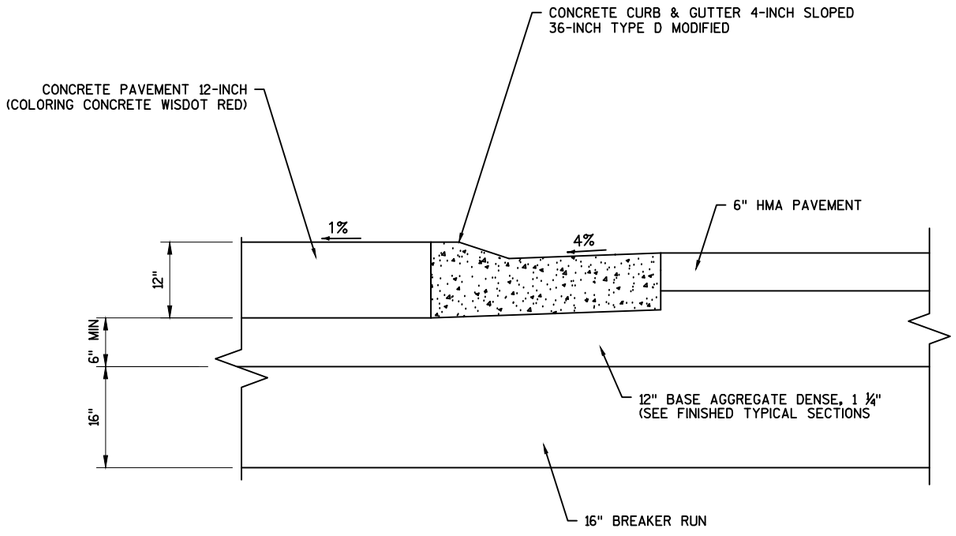


DETAIL OF CURB & GUTTER TERMINI

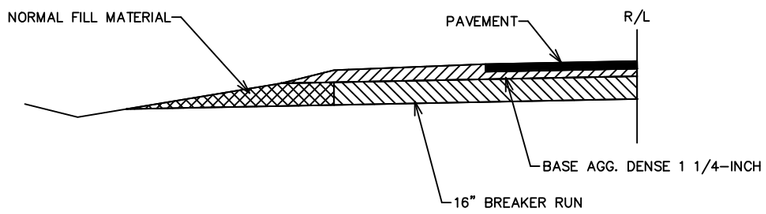


TRANSITION DETAIL

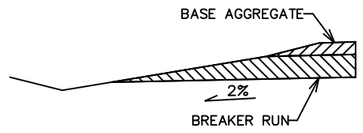
CONCRETE CURB AND GUTTER 4–INCH OR 6–INCH SLOPED 36–INCH TYPE D
TO CONCRETE CURB AND GUTTER 30–INCH TYPE D
(TO BE MEASURED AND PAID FOR AS CONCRETE CURB AND GUTTER
4–INCH OR 6–INCH SLOPED 36–INCH TYPE D)



TRUCK OVERTRACKING PAD DETAIL
SOUTHWEST & NORTHEAST QUADRANTS



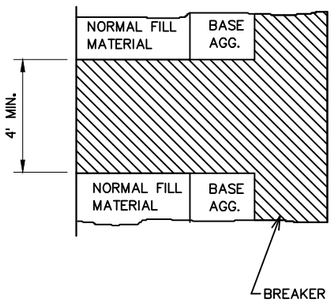
TYPICAL RURAL HALF SECTION
WITH BREAKER RUN



RELIEF TRENCH DETAIL*

PROFILE VIEW

* CONSTRUCT RELIEF TRENCH AT
LOW POINTS OR EVERY 250'



RELIEF TRENCH DETAIL

PLAN VIEW

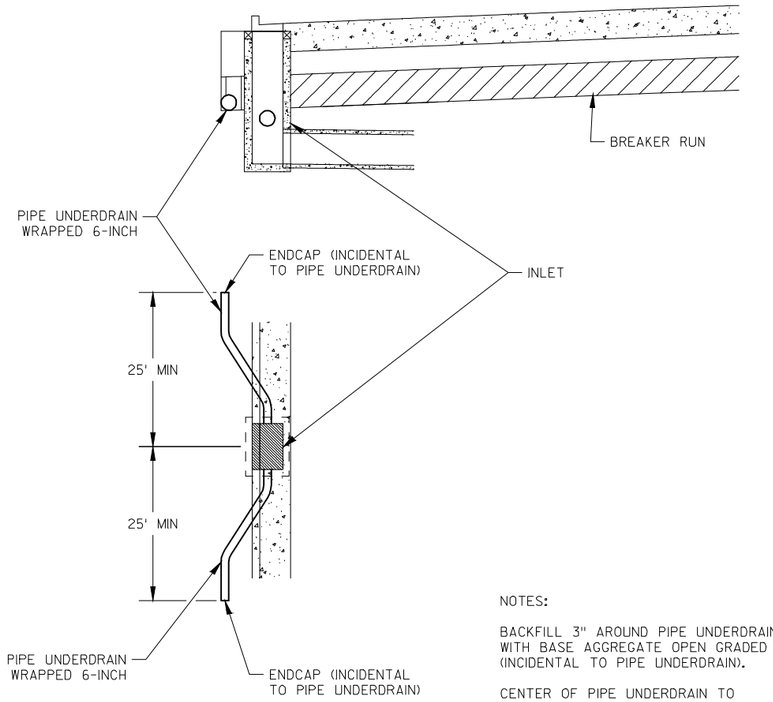
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PLAN: CONSTRUCTION DETAILS	SHEET 6	E

2

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = ___9.41___ ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = ___7.99___ACRES



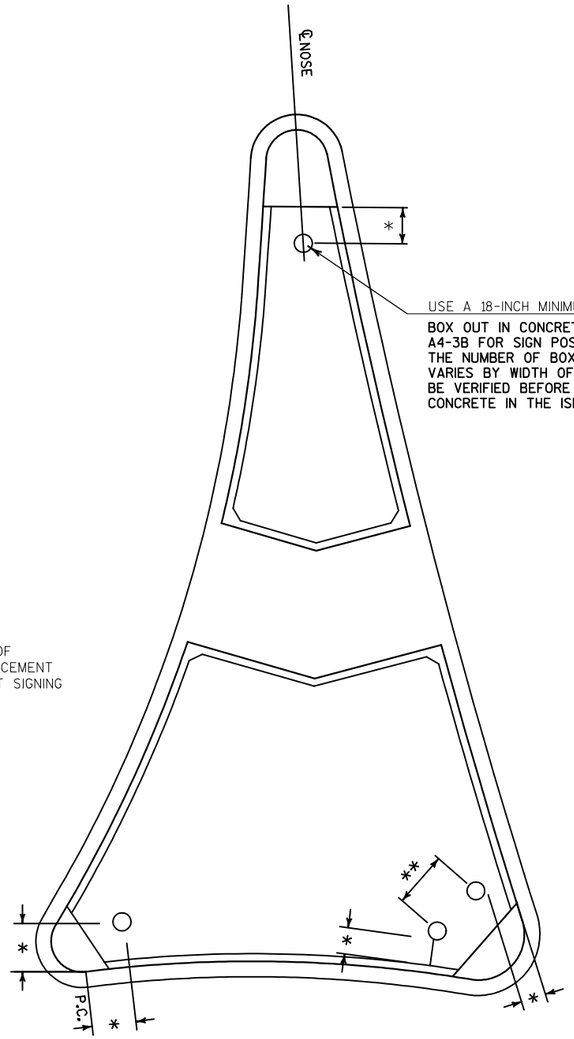
NOTES:

BACKFILL 3" AROUND PIPE UNDERDRAIN WITH BASE AGGREGATE OPEN GRADED (INCIDENTAL TO PIPE UNDERDRAIN).

CENTER OF PIPE UNDERDRAIN TO CONNECT TO INLET 6" BELOW BREAKER RUN.

PIPE UNDERDRAIN LOCATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

DETAIL FOR PIPE UNDERDRAIN AT CURB & GUTTER INLETS



USE A 18-INCH MINIMUM INSIDE DIAMETER
BOX OUT IN CONCRETE PER SIGN PLATE A4-3B FOR SIGN POST (TYP.)
THE NUMBER OF BOX OUTS REQUIRED VARIES BY WIDTH OF THE SIGN AND SHALL BE VERIFIED BEFORE PLACING THE CONCRETE IN THE ISLAND.

NOTIFY THE PROJECT ENGINEER A MINIMUM OF 2-WEEKS PRIOR TO THE NEED FOR SIGN PLACEMENT TO ALLOW FOR STAKING OF ANY PERMANENT SIGNING REQUIRED ON THE PROJECT.

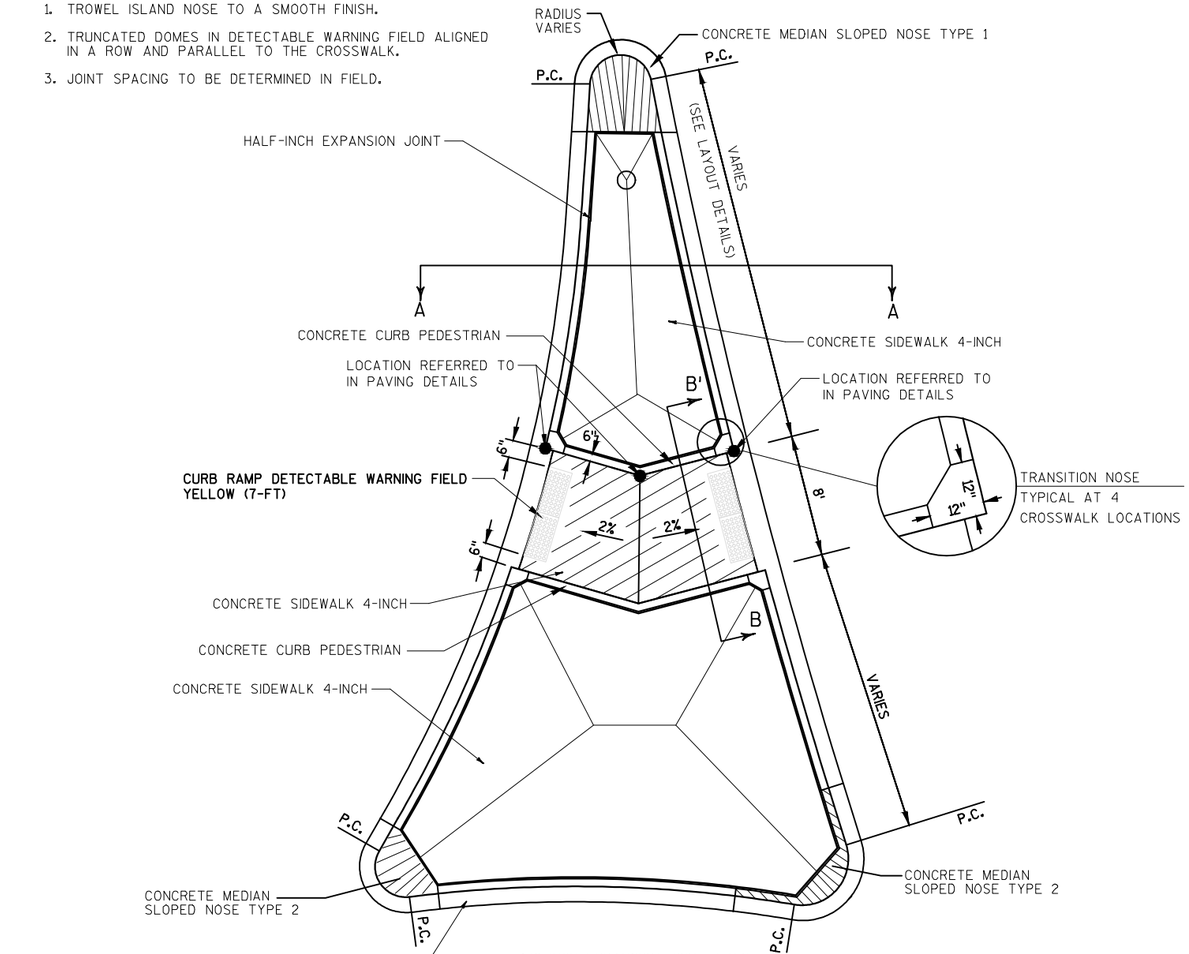
* DISTANCE TO BE LAID OUT IN THE FIELD BASED ON SIGN SIZE. TWO FOOT MINIMUM CLEARANCE BETWEEN THE EDGE OF SIGN AND THE FACE OF CURB.

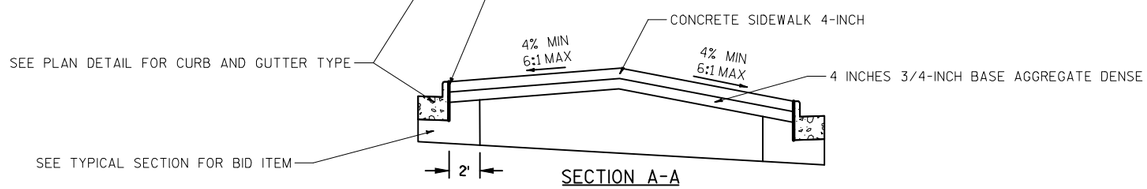
**SEE SIGN DETAILS FOR POST SPACING.

ISLAND SIGN LOCATION DETAIL (TYP.)

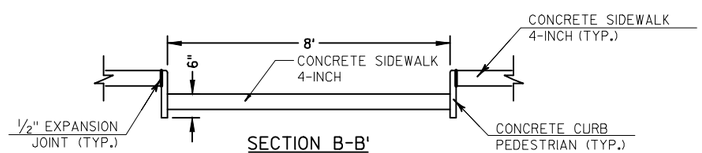
NOTES:

1. TROWEL ISLAND NOSE TO A SMOOTH FINISH.
2. TRUNCATED DOMES IN DETECTABLE WARNING FIELD ALIGNED IN A ROW AND PARALLEL TO THE CROSSWALK.
3. JOINT SPACING TO BE DETERMINED IN FIELD.





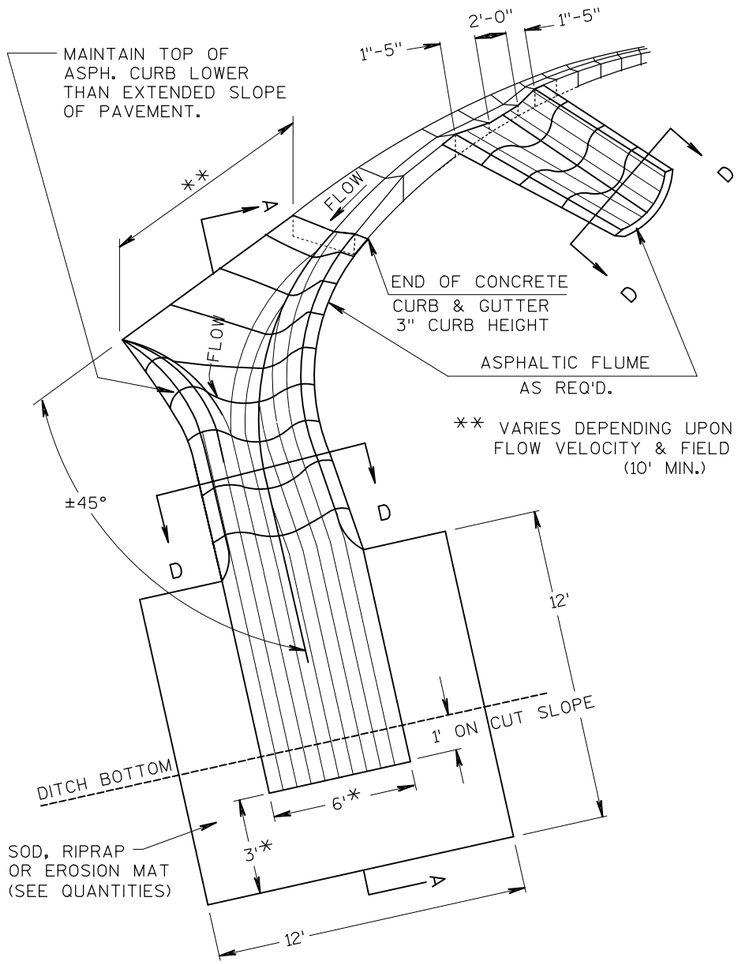
SECTION A-A



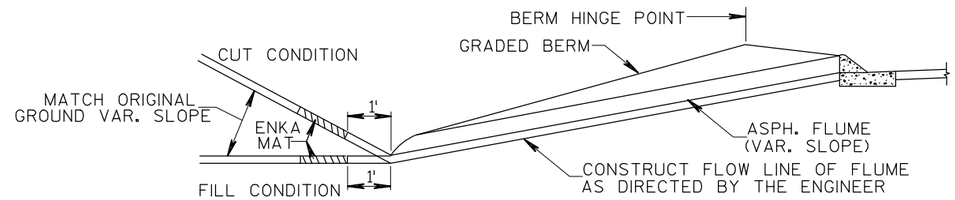
SECTION B-B'

SPLITTER ISLAND DETAIL (TYP.)

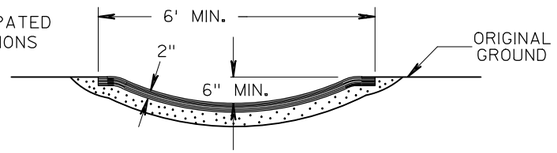
2



** VARIES DEPENDING UPON ANTICIPATED FLOW VELOCITY & FIELD CONDITIONS (10' MIN.)

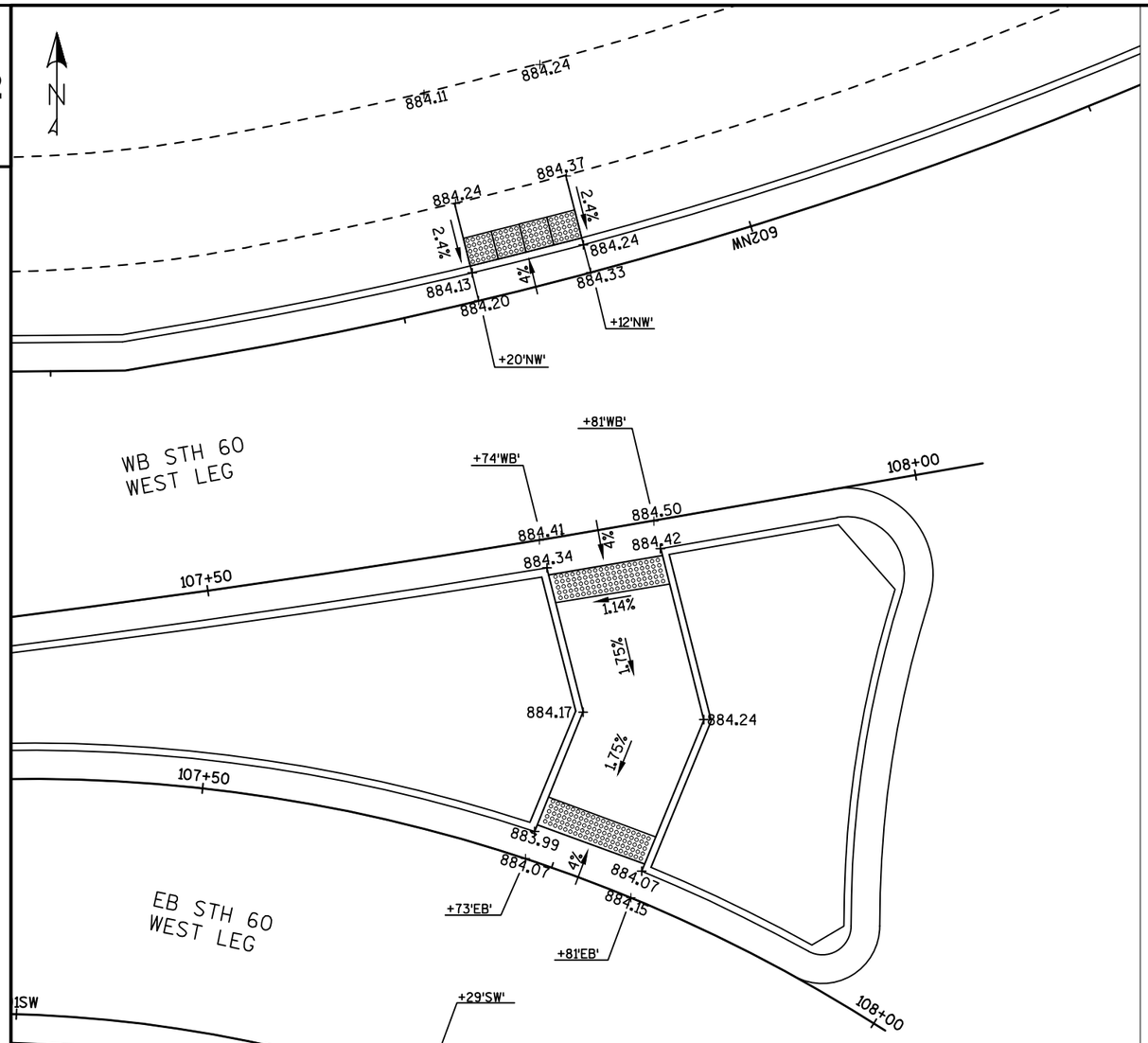


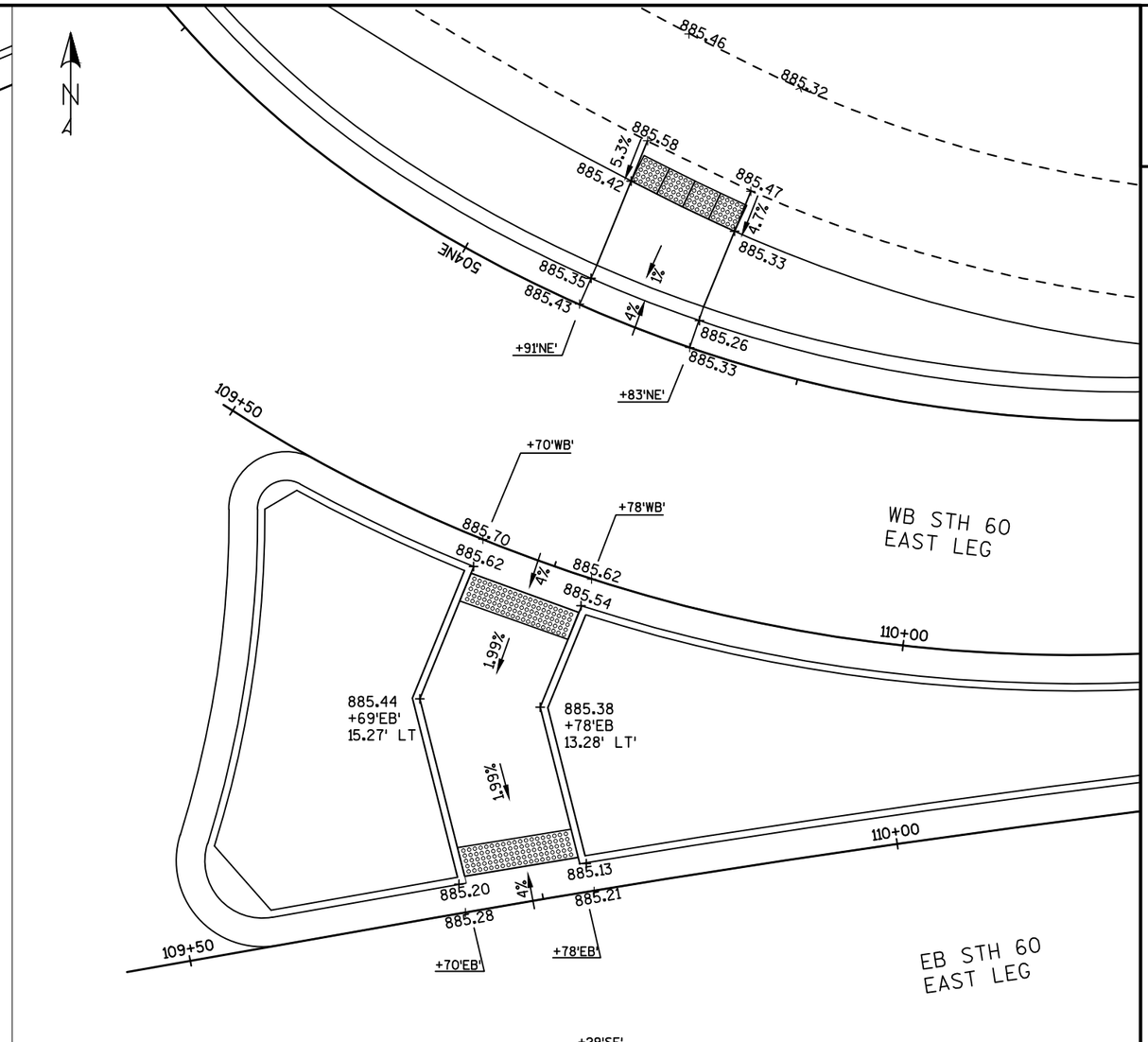
SECTION A-A



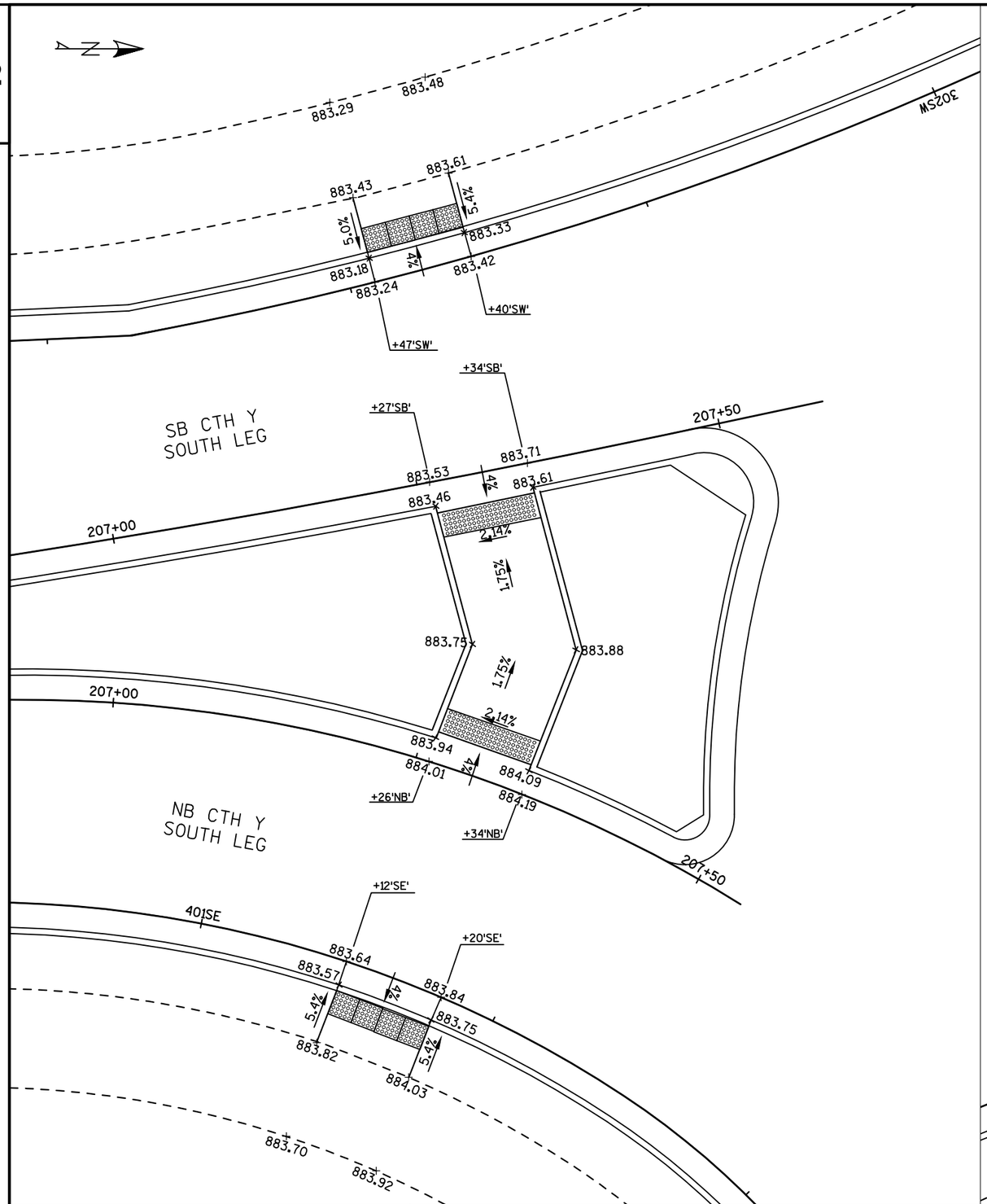
SECTION D-D

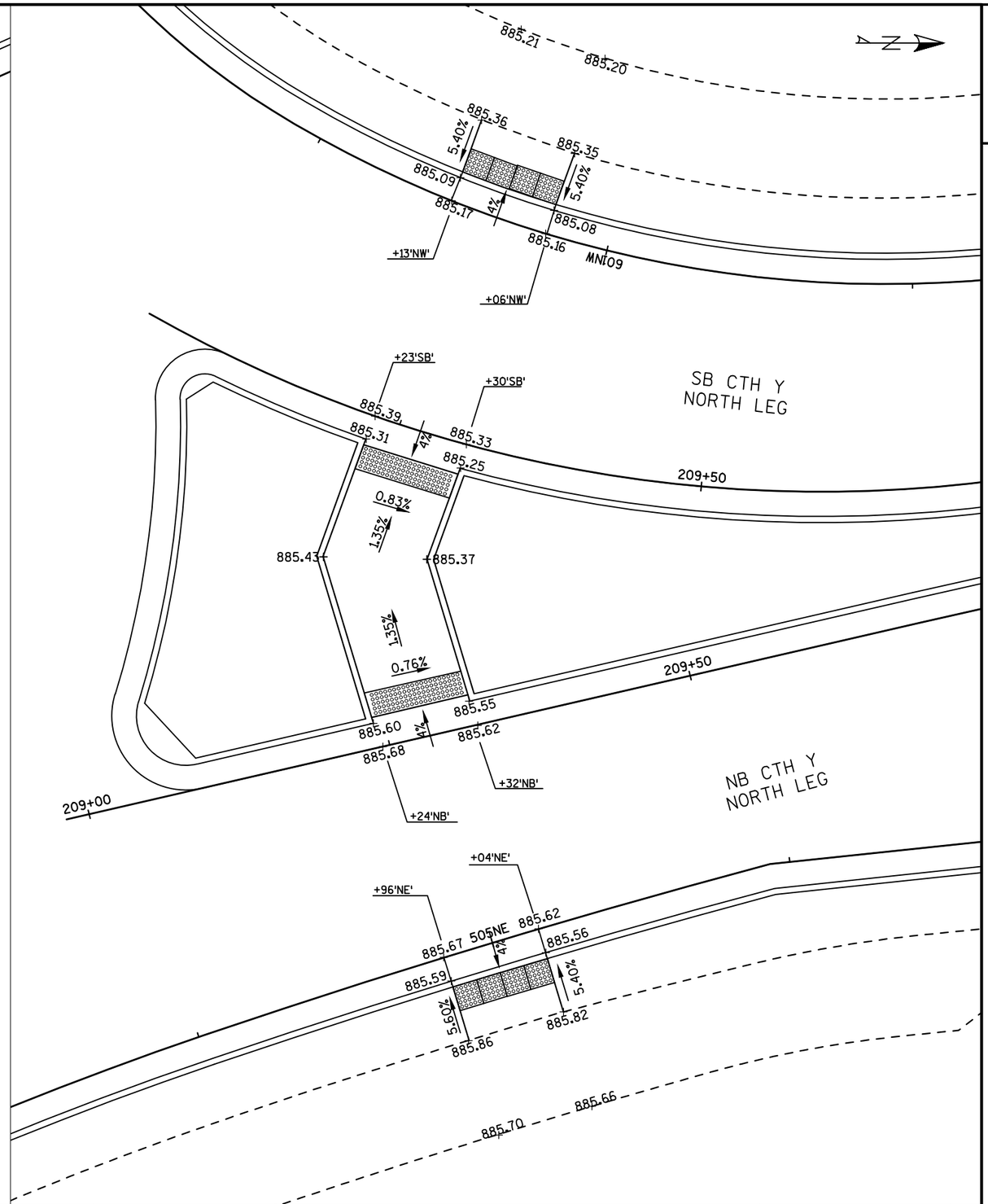
ASPHALTIC FLUME DETAIL
AT RURAL INTERSECTIONS





PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PLAN: CONSTRUCTION DETAILS - STH 60 CURB RAMPS	SHEET 10	E





PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PLAN: CONSTRUCTION DETAILS - CTH Y CURB RAMPS	SHEET 11	E

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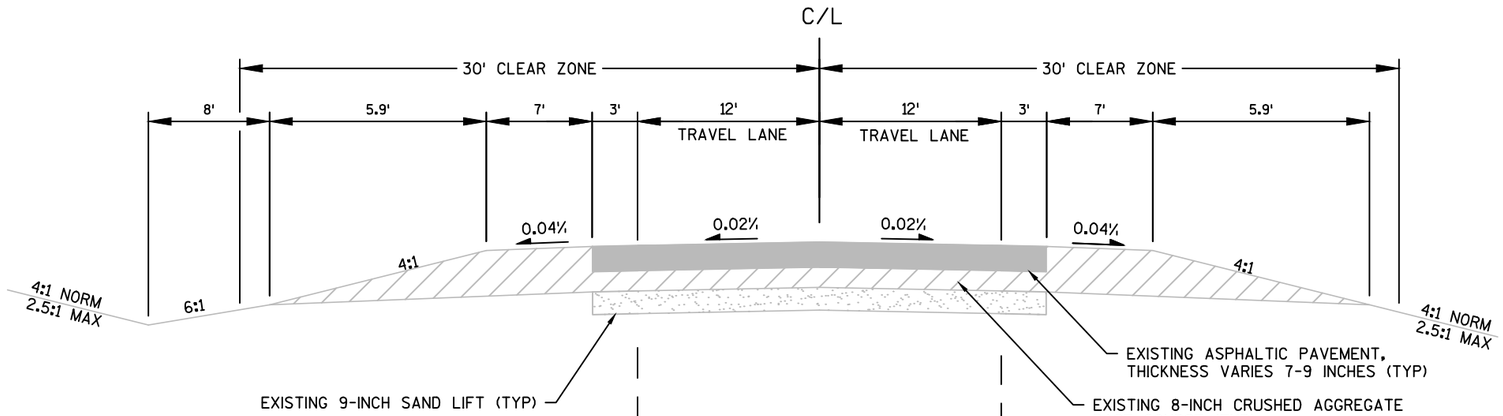
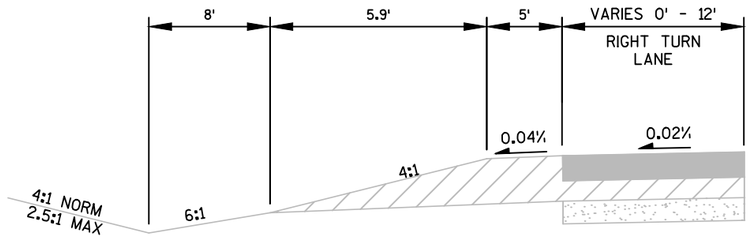
LAYOUT NAME - 06

PLOT DATE : 4/24/2018 11:03 AM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

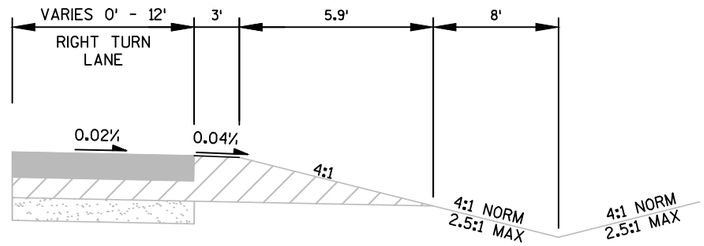
WISDOT/CADDS SHEET 42



STA 100+00 TO STA 117+50



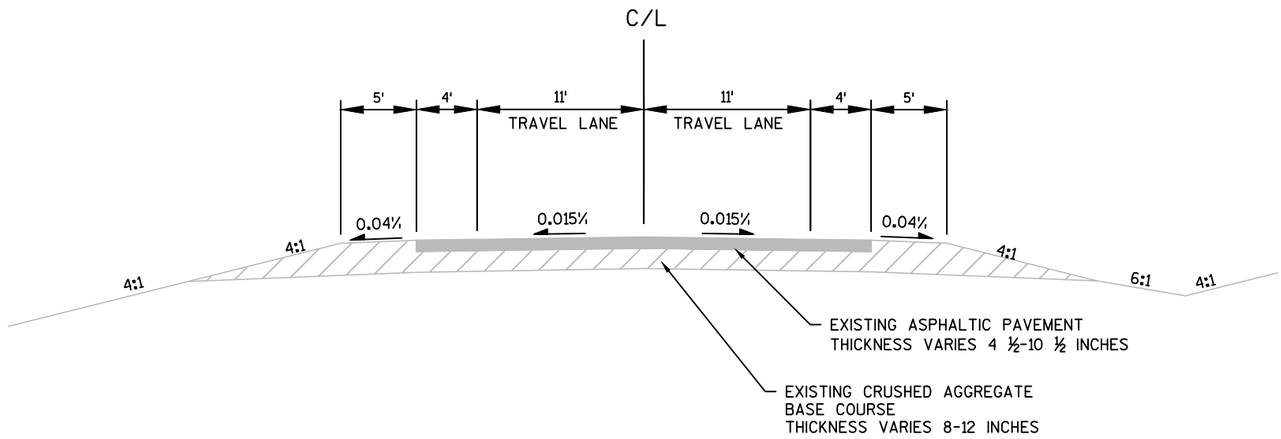
STA 109+48 WB LT TO 114+00 WB LT



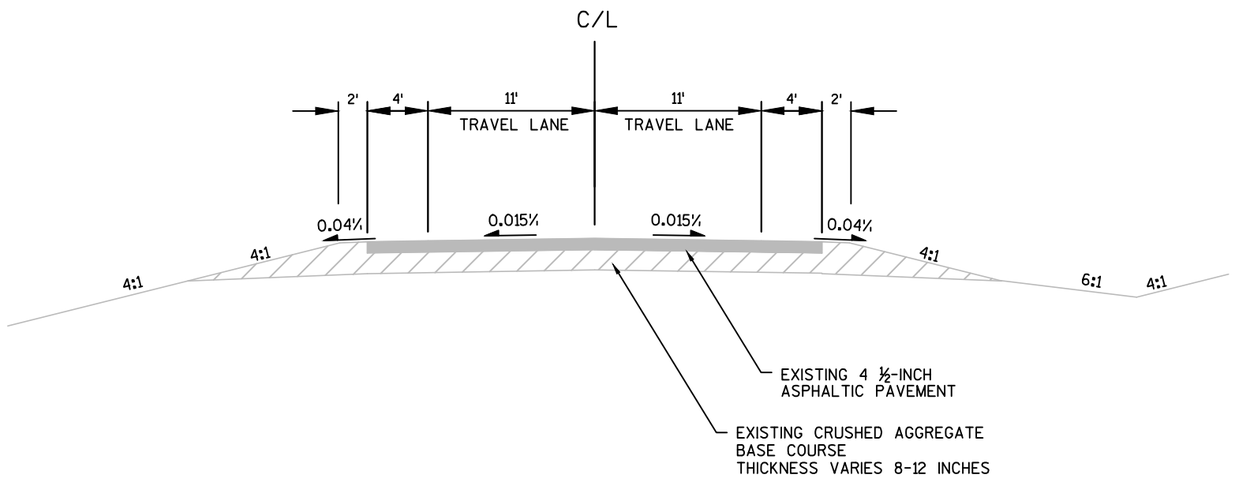
STA 103+25 EB RT TO 108+15 EB RT

EXISTING TYPICAL SECTION STH 60

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	TYPICAL SECTIONS	SHEET 12	E



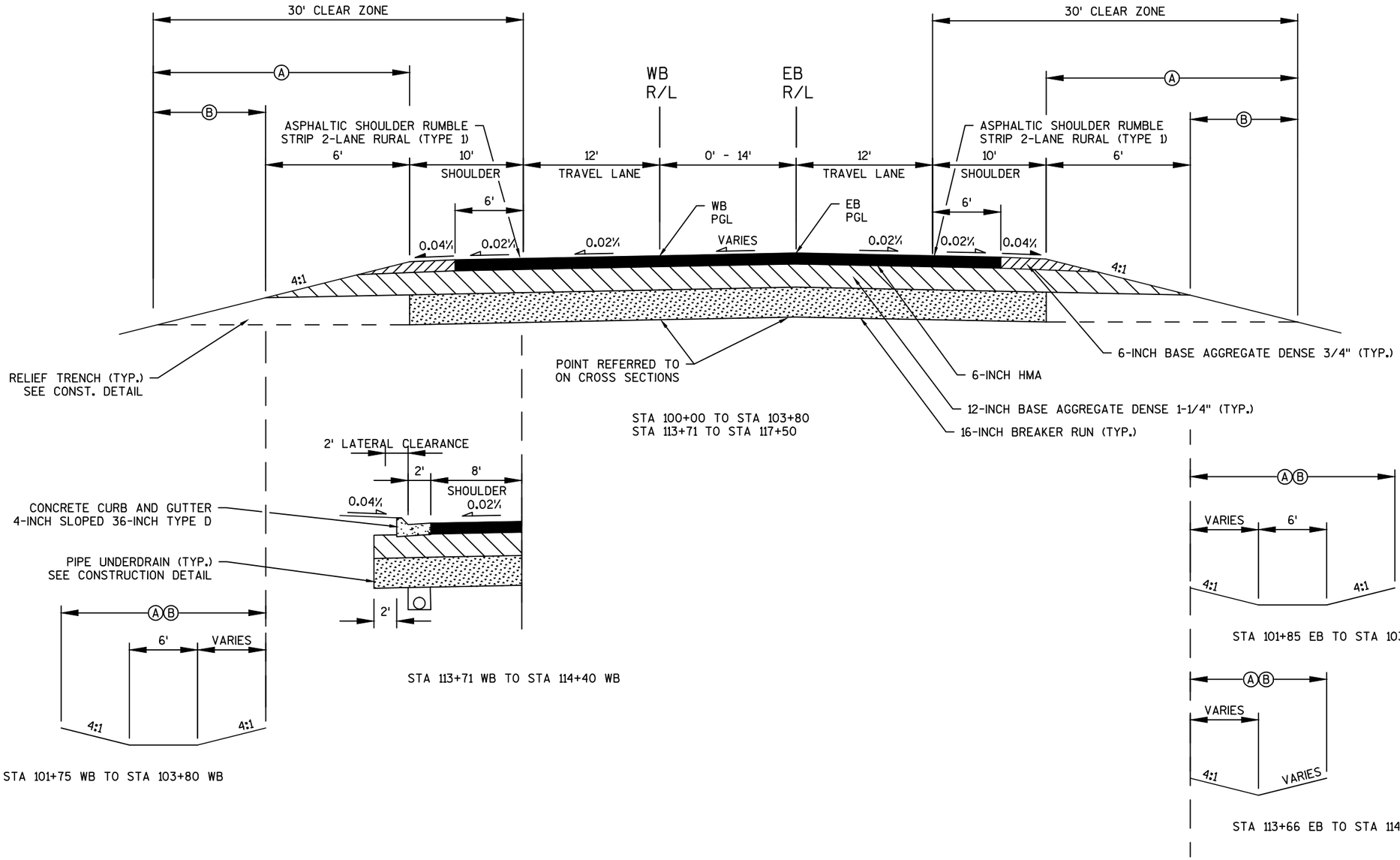
STA 200+00 TO 208+00



STA 208+00 TO 216+59

EXISTING TYPICAL SECTION CTH Y

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	TYPICAL SECTIONS	SHEET 13	E



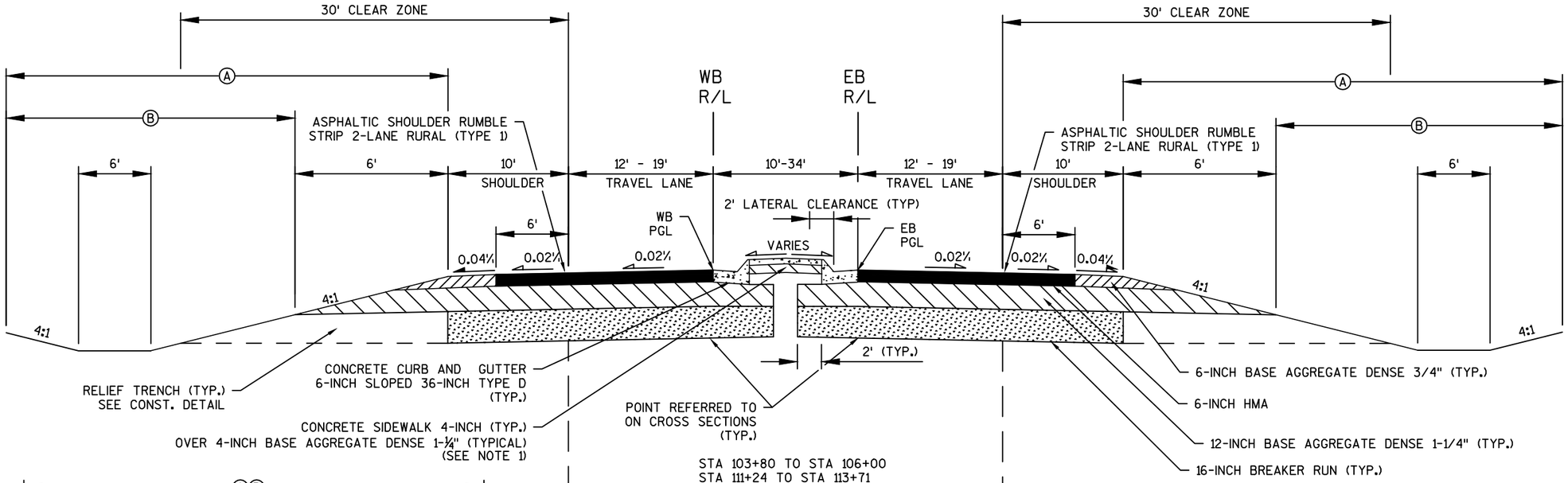
LEGEND:

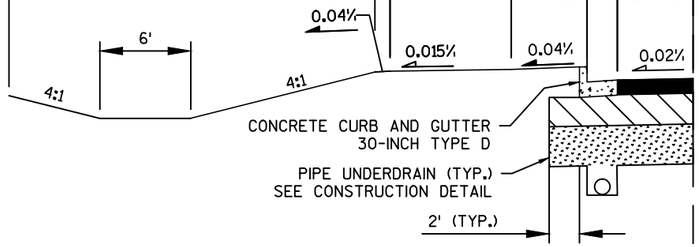
Ⓐ SEEDING MIXTURE NO. 30 AND FERTILIZER TYPE B

Ⓑ 4" SALVAGED TOPSOIL AND EMAT

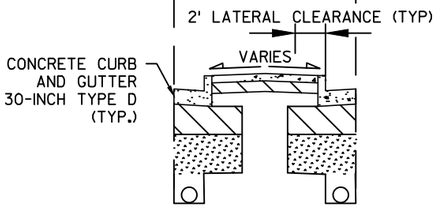
FINISHED TYPICAL SECTION STH 60

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	TYPICAL SECTIONS	SHEET 14	E

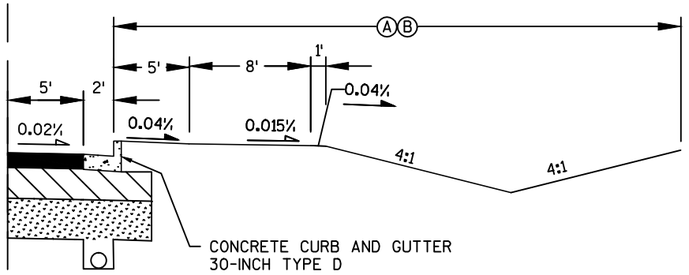




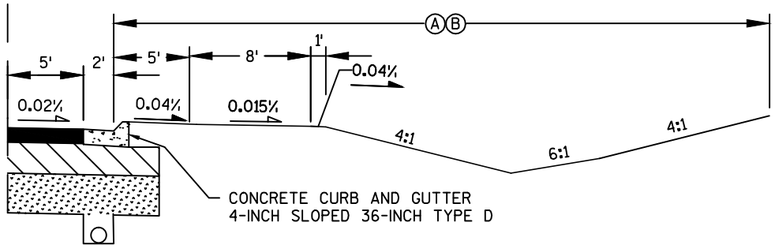
STA 106+60 WB TO STA 107+91 WB
STA 109+57 WB TO STA 112+80 WB



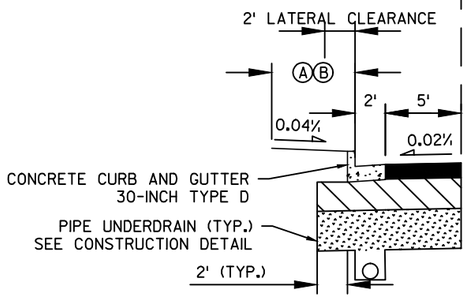
STA 106+00 TO STA 107+91
STA 109+57 TO STA 111+24



STA 106+35 EB TO STA 107+91 EB
STA 109+56 EB TO STA 111+24 EB



STA 111+24 EB TO STA 113+66 EB



STA 112+80 WB TO STA 113+71 WB

NOTES

1) WHEN MEDIAN ISLAND IS GREATER THAN 10 FEET IN WIDTH FROM FLANGE TO FLANGE, PLACE 4" OF BASE AGGREGATE UNDER SIDEWALK AS SHOWN. WHEN MEDIAN ISLAND IS 10-FT WIDE OR LESS FROM FLANGE TO FLANGE, PLACE BASE AGGREGATE TO THE BOTTOM OF THE CURB AND GUTTER.

LEGEND:

Ⓐ SEEDING MIXTURE NO. 30 AND FERTILIZER TYPE B

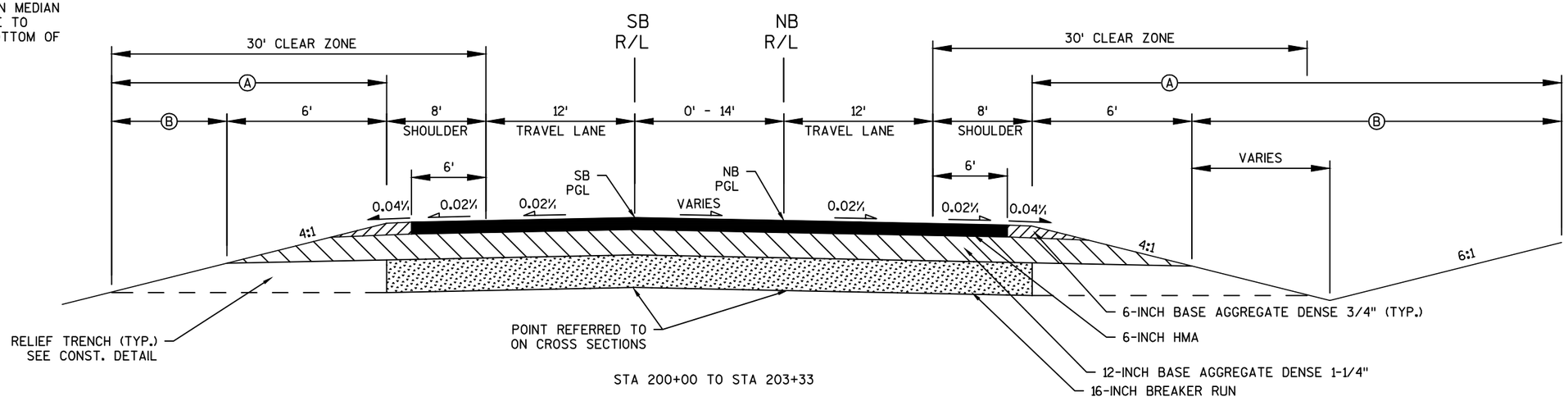
Ⓑ 4" SALVAGED TOPSOIL AND EMAT

FINISHED TYPICAL SECTION STH 60

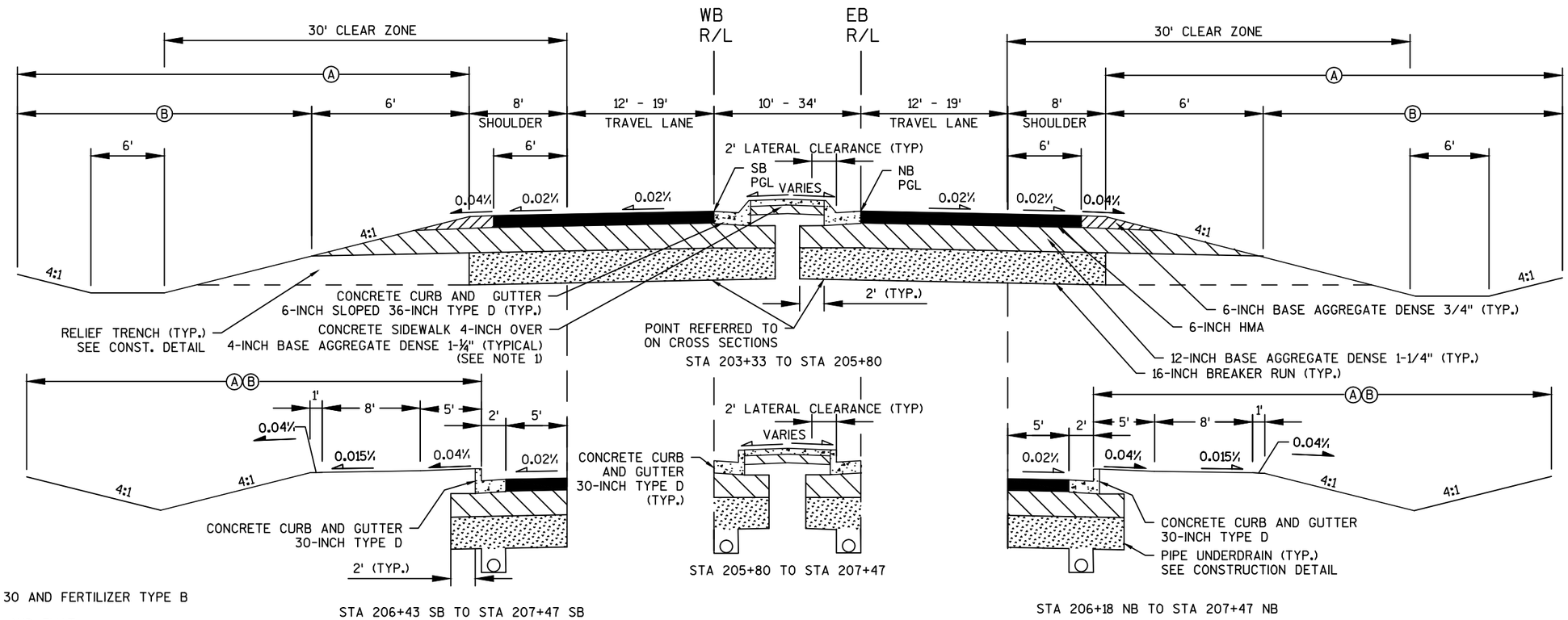
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	TYPICAL SECTIONS	SHEET 15	E

NOTES

1) WHEN MEDIAN ISLAND IS GREATER THAN 10 FEET IN WIDTH FROM FLANGE TO FLANGE, PLACE 4" OF BASE AGGREGATE UNDER SIDEWALK AS SHOWN. WHEN MEDIAN ISLAND IS 10-FT WIDE OR LESS FROM FLANGE TO FLANGE, PLACE BASE AGGREGATE TO THE BOTTOM OF THE CURB AND GUTTER.



STA 200+00 TO STA 203+33



STA 203+33 TO STA 205+80

STA 205+80 TO STA 207+47

STA 206+43 SB TO STA 207+47 SB

STA 206+18 NB TO STA 207+47 NB

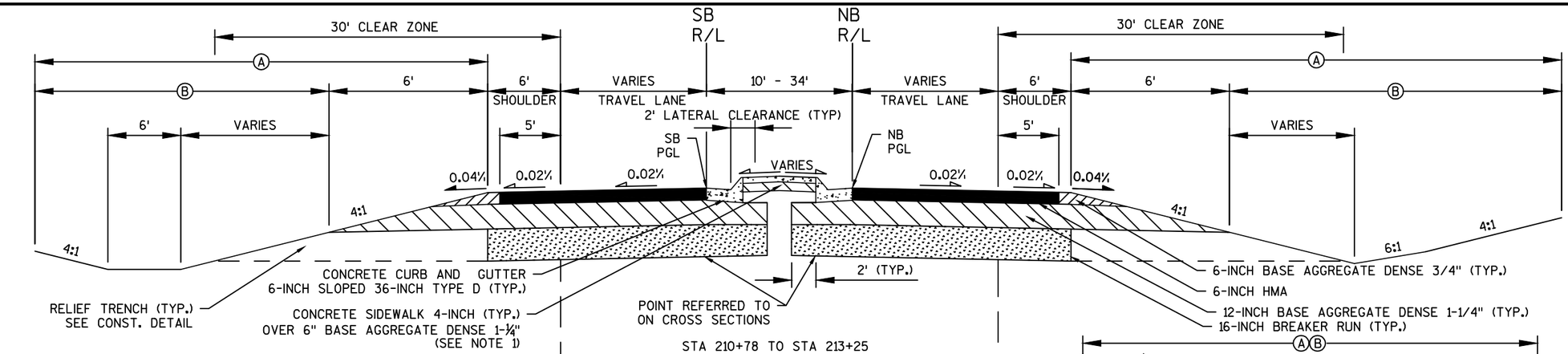
LEGEND:

Ⓐ SEEDING MIXTURE NO. 30 AND FERTILIZER TYPE B

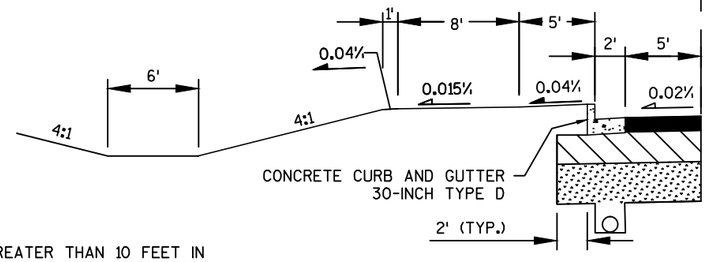
Ⓑ 4" SALVAGED TOPSOIL AND EMAT

FINISHED TYPICAL SECTION CTH Y - SOUTH

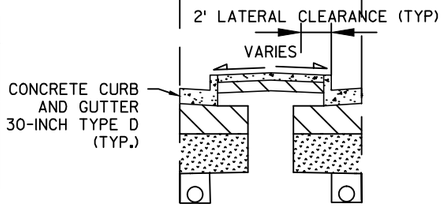
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	TYPICAL SECTIONS	SHEET 16	E



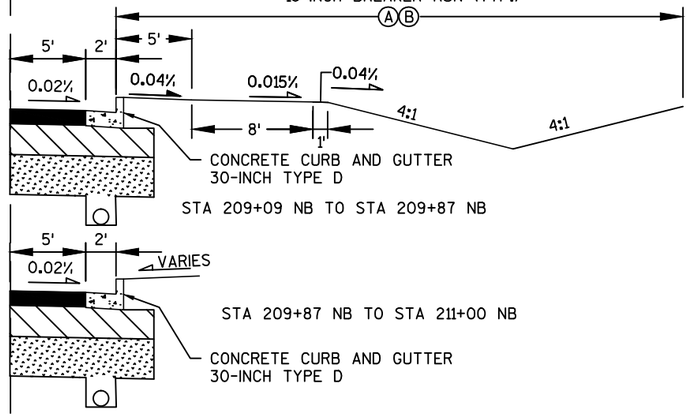
STA 210+78 TO STA 213+25



STA 209+09 SB TO STA 210+47 SB



STA 209+09 TO STA 210+78



STA 209+09 NB TO STA 209+87 NB

STA 209+87 NB TO STA 211+00 NB

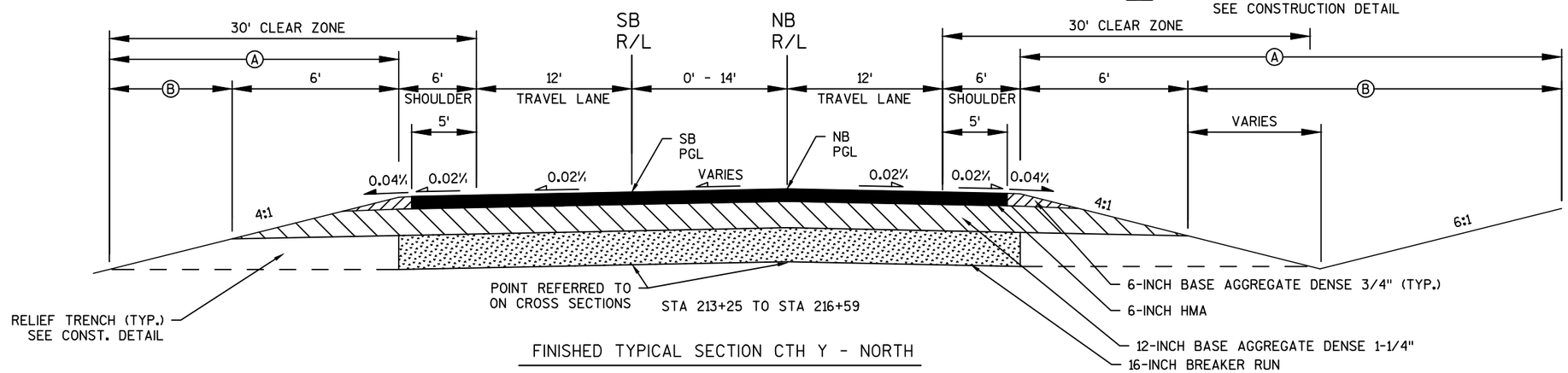
STA 211+00 NB TO STA 212+50 NB

NOTES

- 1) WHEN MEDIAN ISLAND IS GREATER THAN 10 FEET IN WIDTH FROM FLANGE TO FLANGE, PLACE 4" OF BASE AGGREGATE UNDER SIDEWALK AS SHOWN. WHEN MEDIAN ISLAND IS 10-FT WIDE OR LESS FROM FLANGE TO FLANGE, PLACE BASE AGGREGATE TO THE BOTTOM OF THE CURB AND GUTTER.

LEGEND:

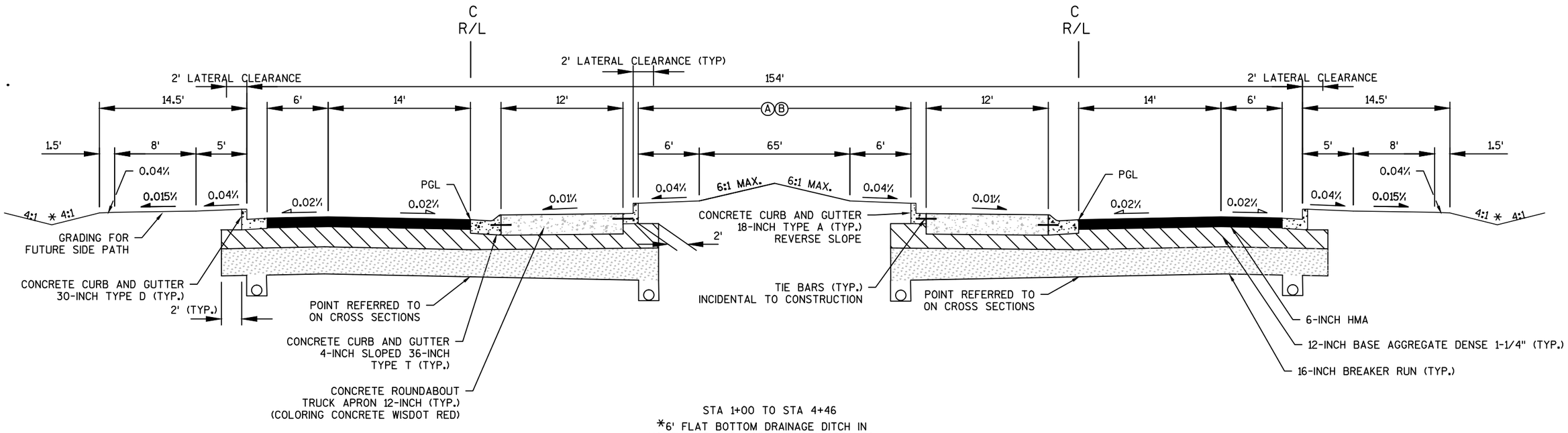
- (A) SEEDING MIXTURE NO. 30 AND FERTILIZER TYPE B
- (B) 4" SALVAGED TOPSOIL AND EMAT



STA 213+25 TO STA 216+59

FINISHED TYPICAL SECTION CTH Y - NORTH

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	TYPICAL SECTIONS	SHEET 17	E



STA 1+00 TO STA 4+46

*6' FLAT BOTTOM DRAINAGE DITCH IN
NORTHEAST AND NORTHWEST QUADRANTS

FINISHED TYPICAL SECTION ROUNDABOUT

LEGEND:

Ⓐ SEEDING MIXTURE NO. 30 AND FERTILIZER TYPE B

Ⓑ 4" SALVAGED TOPSOIL AND EMAT

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	TYPICAL SECTIONS	SHEET 18	E

2

2

N

PROP R/W

SLOPE INTERCEPT

WETLAND BOUNDARY

EXIST R/W

BEGIN PROJECT
STA. 100+00.00
MATCH I.D. 2310-17-70

MATCHLINE STA. 105+25

100+00WB
100+00EB
101+00WB
101+00EB
102+00WB
102+00EB
103+00WB
103+00EB
104+00WB
104+00EB
105+00WB
105+00EB

SAWING ASPHALT
15' LT TO 15' RT

STH 60

4'
18'
14'
18'
4'

WETLAND BOUNDARY

EXIST R/W

PROP R/W

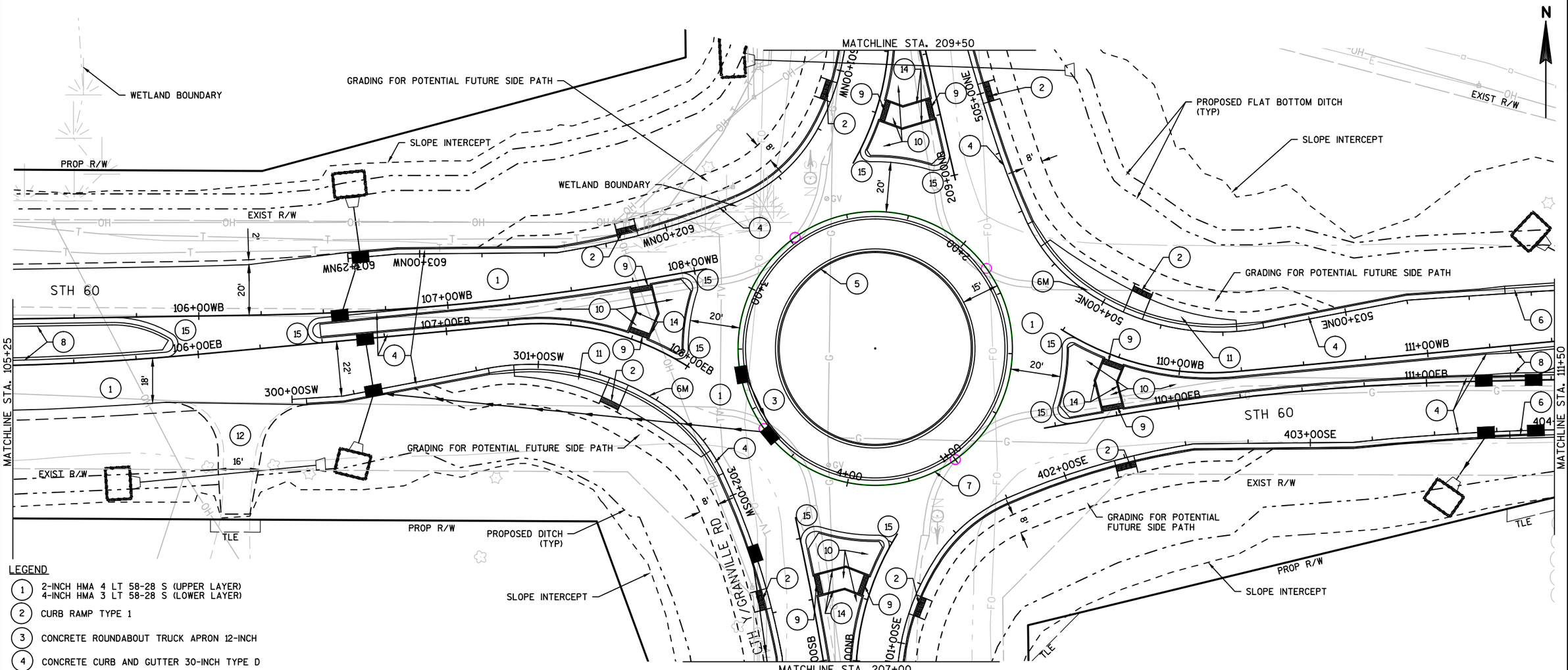
PROPOSED FLAT BOTTOM DITCH
(TYP)

SLOPE INTERCEPT

LEGEND

1. 2-INCH HMA 4 LT 58-28 S (UPPER LAYER)
   4-INCH HMA 3 LT 58-28 S (LOWER LAYER)
2. CURB RAMP TYPE 1
3. CONCRETE ROUNDABOUT TRUCK APRON 12-INCH
4. CONCRETE CURB AND GUTTER 30-INCH TYPE D
5. CONCRETE CURB AND GUTTER 18-INCH TYPE A (REVERSE SLOPE)
6. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
6M. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D, MODIFIED (SEE CONSTRUCTION DETAIL)
7. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
8. CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
9. CURB RAMP TYPE 5
10. CONCRETE SIDEWALK 4-INCH
11. CONCRETE PAVEMENT 12-INCH (COLORING CONCRETE WISDOT RED)
12. 6-INCH BASE AGGREGATE DENSE 3/4-INCH
13. 3-INCH ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
14. CONCRETE CURB PEDESTRIAN
15. CONCRETE MEDIAN SLOPED NOSE

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 19	E



LEGEND

1. 2-INCH HMA 4 LT 58-28 S (UPPER LAYER) 4-INCH HMA 3 LT 58-28 S (LOWER LAYER)
2. CURB RAMP TYPE 1
3. CONCRETE ROUNDABOUT TRUCK APRON 12-INCH
4. CONCRETE CURB AND GUTTER 30-INCH TYPE D
5. CONCRETE CURB AND GUTTER 18-INCH TYPE A (REVERSE SLOPE)
6. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
6M. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D, MODIFIED (SEE CONSTRUCTION DETAIL)
7. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
8. CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
9. CURB RAMP TYPE 5
10. CONCRETE SIDEWALK 4-INCH
11. CONCRETE PAVEMENT 12-INCH (COLORING CONCRETE WISDOT RED)
12. 6-INCH BASE AGGREGATE DENSE 3/4-INCH
13. 3-INCH ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
14. CONCRETE CURB PEDESTRIAN
15. CONCRETE MEDIAN SLOPED NOSE

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 20	E

2

N

EXIST R/W

PROPOSED FLAT BOTTOM DITCH (TYP)

TLE

16'

ASPHALTIC FLUME

EXIST R/W

SLOPE INTERCEPT

END PROJECT
STA. 117+50.00
MATCH I.D. 2310-17-70

MATCHLINE STA. 111+50

502+00NE

501+00NE

500+00NE

499+14NE

112+00WB

113+00WB

114+00WB

115+00WB

116+00WB

117+00WB

112+00EB

113+00EB

114+00EB

115+00EB

116+00EB

117+00EB

STH 60

STH 60

+00SE

405+00SE

406+00SE 406+13SE

20'

14'

18'

24'

4'

ASPHALTIC FLUME

EXIST R/W

TLE

PROPOSED DITCH (TYP)

TLE

SAWING ASPHALT
15' LT TO 15' RT

EXIST R/W

SLOPE INTERCEPT

PLACE SEED MIXTURE NO. 30
OVER BASE AGGREGATE

SLAB

SLAB

OH

G

LEGEND

1. 2-INCH HMA 4 LT 58-28 S (UPPER LAYER)
   4-INCH HMA 3 LT 58-28 S (LOWER LAYER)
2. CURB RAMP TYPE 1
3. CONCRETE ROUNDABOUT TRUCK APRON 12-INCH
4. CONCRETE CURB AND GUTTER 30-INCH TYPE D
5. CONCRETE CURB AND GUTTER 18-INCH TYPE A (REVERSE SLOPE)
6. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
6M. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D, MODIFIED (SEE CONSTRUCTION DETAIL)
7. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
8. CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
9. CURB RAMP TYPE 5
10. CONCRETE SIDEWALK 4-INCH
11. CONCRETE PAVEMENT 12-INCH (COLORING CONCRETE WISDOT RED)
12. 6-INCH BASE AGGREGATE DENSE 3/4-INCH
13. 3-INCH ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
14. CONCRETE CURB PEDESTRIAN
15. CONCRETE MEDIAN SLOPED NOSE

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 21	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\SHEETSPLAN\021101_ID.DWG
LAYOUT NAME - 021101_ID - 021203_PD

PLOT DATE : 4/25/2018 12:33 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

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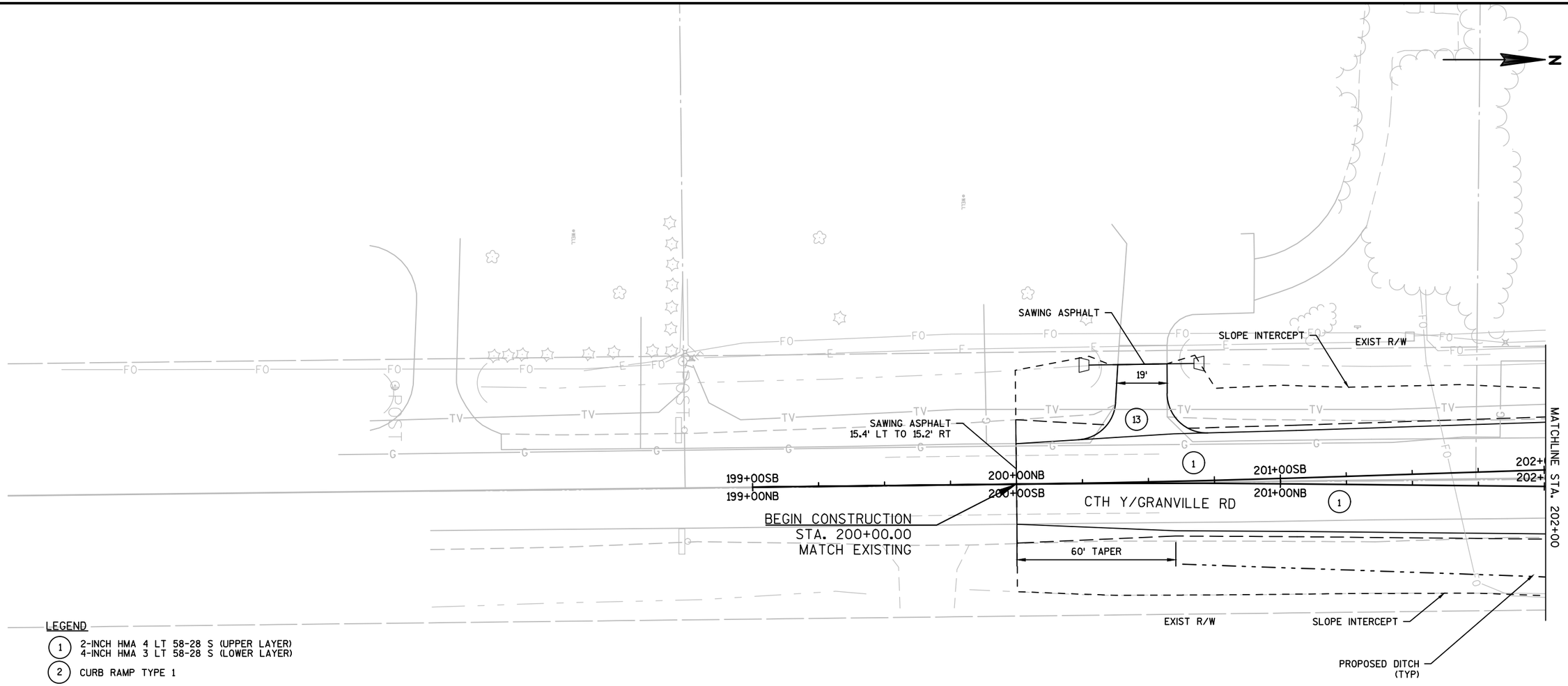
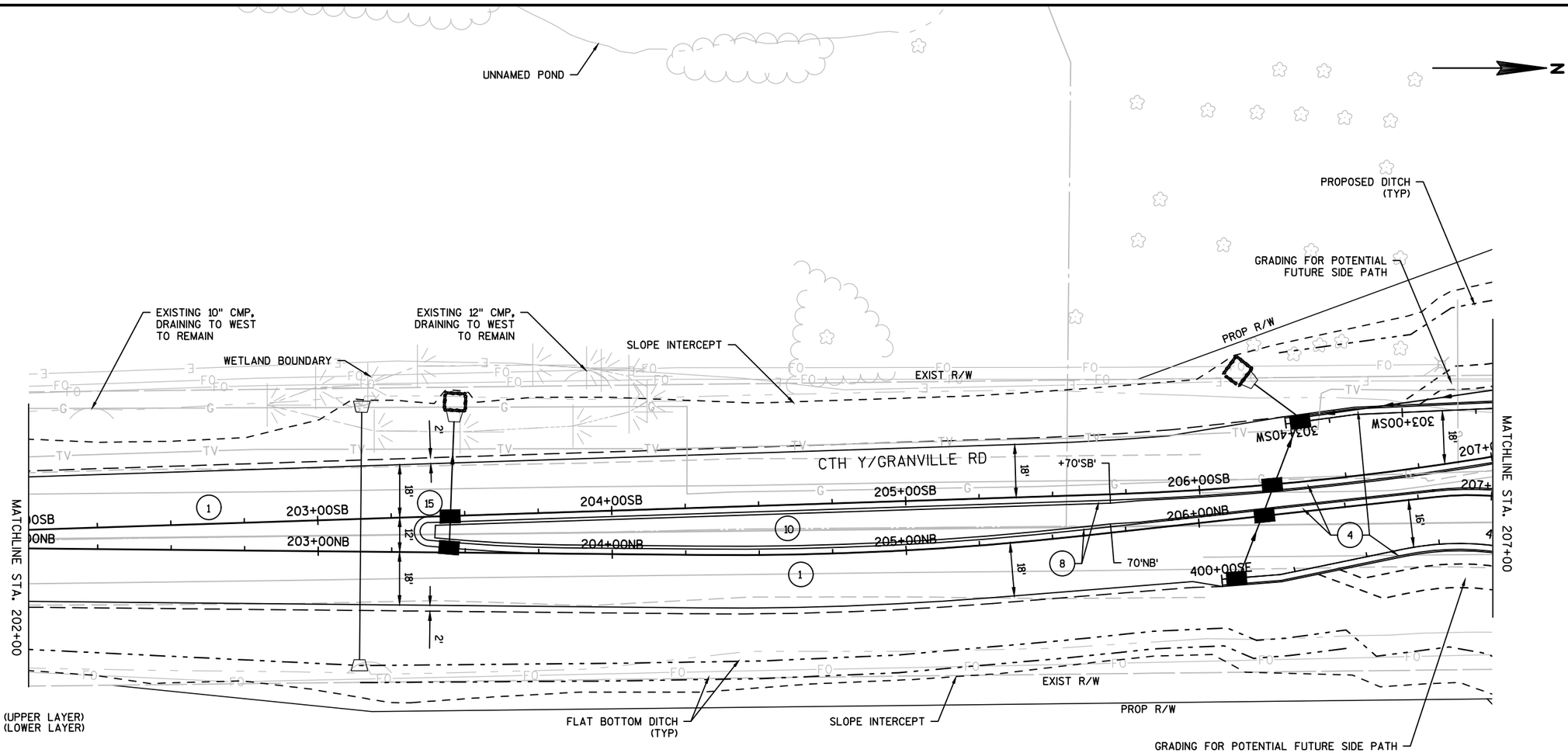


LEGEND

1. 2-INCH HMA 4 LT 58-28 S (UPPER LAYER)
   4-INCH HMA 3 LT 58-28 S (LOWER LAYER)
2. CURB RAMP TYPE 1
3. CONCRETE ROUNDABOUT TRUCK APRON 12-INCH
4. CONCRETE CURB AND GUTTER 30-INCH TYPE D
5. CONCRETE CURB AND GUTTER 18-INCH TYPE A (REVERSE SLOPE)
6. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
6M. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D, MODIFIED (SEE CONSTRUCTION DETAIL)
7. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
8. CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
9. CURB RAMP TYPE 5
10. CONCRETE SIDEWALK 4-INCH
11. CONCRETE PAVEMENT 12-INCH (COLORING CONCRETE WISDOT RED)
12. 6-INCH BASE AGGREGATE DENSE 3/4-INCH
13. 3-INCH ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
14. CONCRETE CURB PEDESTRIAN
15. CONCRETE MEDIAN SLOPED NOSE

2



LEGEND

1. 2-INCH HMA 4 LT 58-28 S (UPPER LAYER) 4-INCH HMA 3 LT 58-28 S (LOWER LAYER)
2. CURB RAMP TYPE 1
3. CONCRETE ROUNDABOUT TRUCK APRON 12-INCH
4. CONCRETE CURB AND GUTTER 30-INCH TYPE D
5. CONCRETE CURB AND GUTTER 18-INCH TYPE A (REVERSE SLOPE)
6. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
6M. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D, MODIFIED (SEE CONSTRUCTION DETAIL)
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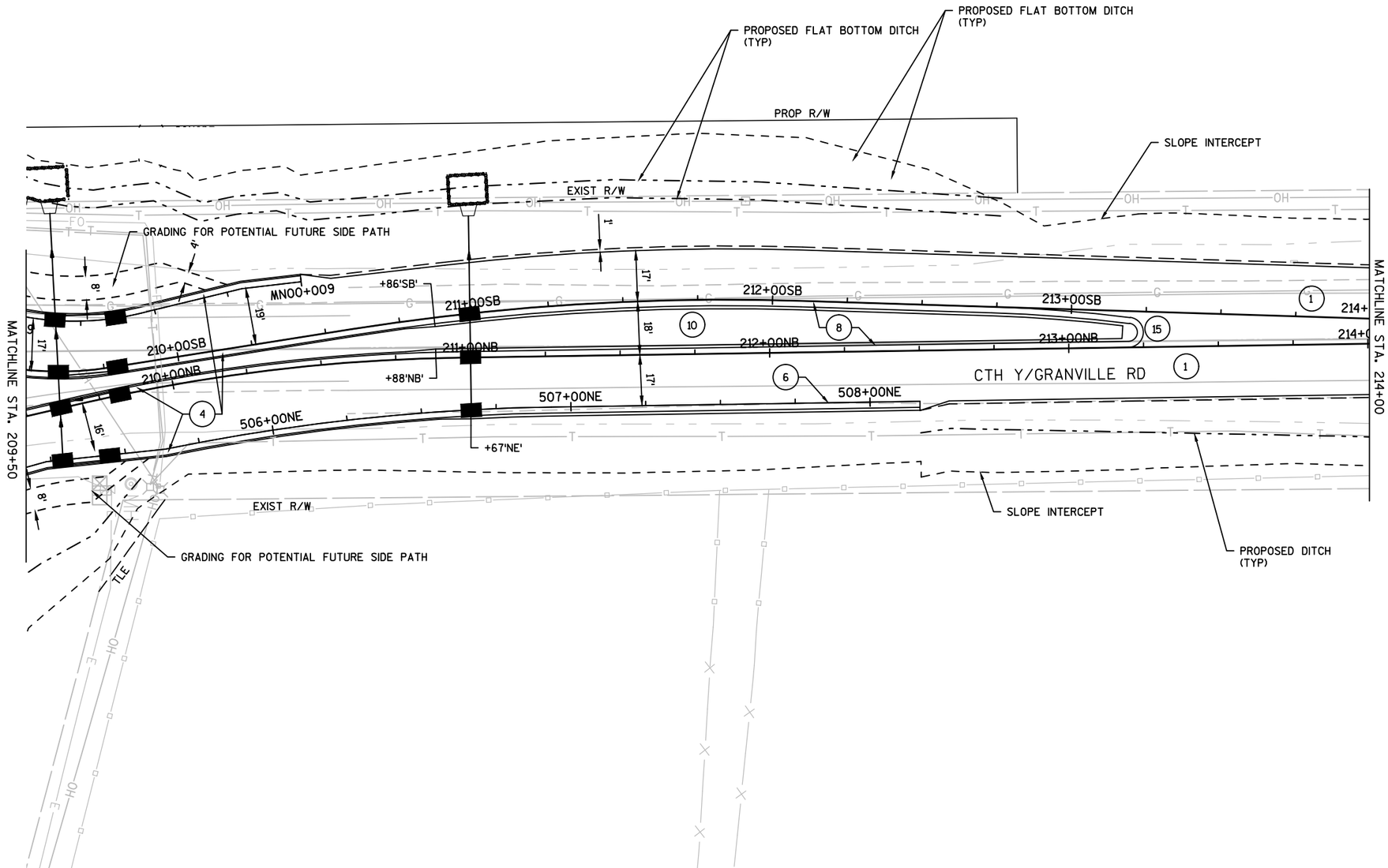
12. 6-INCH BASE AGGREGATE DENSE 3/4-INCH
13. 3-INCH ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
14. CONCRETE CURB PEDESTRIAN
15. CONCRETE MEDIAN SLOPED NOSE

2

N



LEGEND

1. 2-INCH HMA 4 LT 58-28 S (UPPER LAYER)
4-INCH HMA 3 LT 58-28 S (LOWER LAYER)
2. CURB RAMP TYPE 1
3. CONCRETE ROUNDABOUT TRUCK APRON 12-INCH
4. CONCRETE CURB AND GUTTER 30-INCH TYPE D
5. CONCRETE CURB AND GUTTER 18-INCH TYPE A (REVERSE SLOPE)
6. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
6M. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D, MODIFIED (SEE CONSTRUCTION DETAIL)
7. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
8. CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
9. CURB RAMP TYPE 5
10. CONCRETE SIDEWALK 4-INCH
11. CONCRETE PAVEMENT 12-INCH (COLORING CONCRETE WISDOT RED)
12. 6-INCH BASE AGGREGATE DENSE 3/4-INCH
13. 3-INCH ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
14. CONCRETE CURB PEDESTRIAN
15. CONCRETE MEDIAN SLOPED NOSE

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 24	E

2

LEGEND

1. 2-INCH HMA 4 LT 58-28 S (UPPER LAYER)
   4-INCH HMA 3 LT 58-28 S (LOWER LAYER)
2. CURB RAMP TYPE 1
3. CONCRETE ROUNDABOUT TRUCK APRON 12-INCH
4. CONCRETE CURB AND GUTTER 30-INCH TYPE D
5. CONCRETE CURB AND GUTTER 18-INCH TYPE A (REVERSE SLOPE)
6. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
6M. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D, MODIFIED (SEE CONSTRUCTION DETAIL)
7. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
8. CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
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10. CONCRETE SIDEWALK 4-INCH
11. CONCRETE PAVEMENT 12-INCH (COLORING CONCRETE WISDOT RED)
12. 6-INCH BASE AGGREGATE DENSE 3/4-INCH
13. 3-INCH ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
14. CONCRETE CURB PEDESTRIAN
15. CONCRETE MEDIAN SLOPED NOSE

N

MATCHLINE STA. 214+00

TLE

SLOPE INTERCEPT

EXIST R/W

SAWING ASPHALT
15.3' LT TO 13.9' RT

215+00SB

215+00NB

216+00SB

216+00NB

217+00NB

CTH Y/GRANVILLE RD

60' TAPER

END CONSTRUCTION
STA. 216+58.62
MATCH EXISTING

PROPOSED DITCH
(TYP)

SLOPE INTERCEPT

EXIST R/W

17'

1'

16'

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 25	E

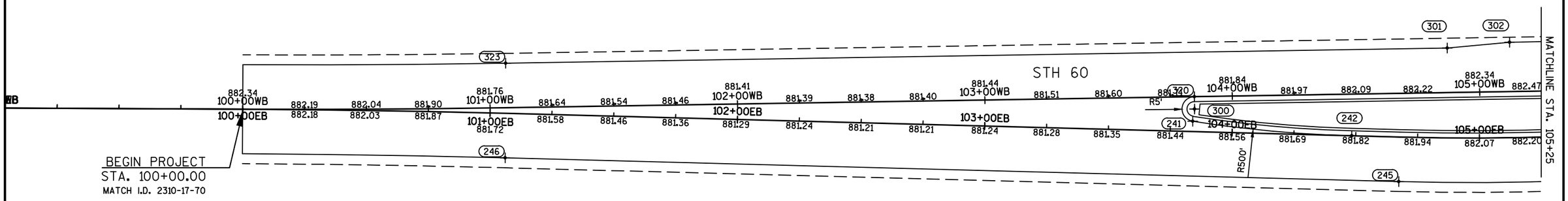
FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\SHEETSPLAN\021102_ID.DWG
LAYOUT NAME - 021102_ID - 021207

PLOT DATE : 4/25/2018 12:35 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

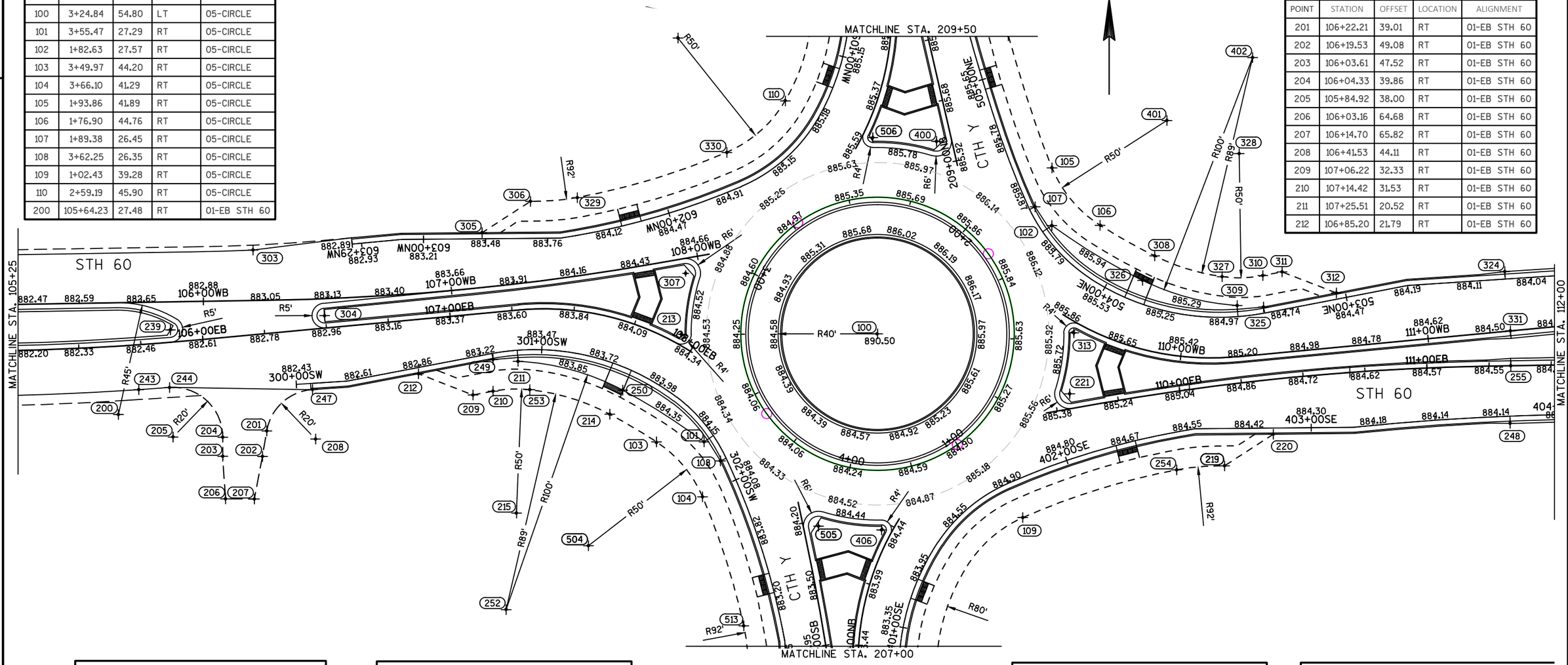
2

DATA TABLE				
POINT	STATION	OFFSET	LOCATION	ALIGNMENT
241	103+83.95	4.17	LT	01-EB STH 60
242	104+48.36	0.00	T	01-EB STH 60
245	104+67.84	18.00	RT	01-EB STH 60
246	101+06.55	18.00	RT	01-EB STH 60
300	103+84.68	5.00	RT	02-WB STH 60
301	104+87.15	18.00	LT	02-WB STH 60
302	105+12.39	19.98	LT	02-WB STH 60
320	103+84.68	0.00	T	02-WB STH 60
323	101+06.55	18.00	LT	02-WB STH 60



DATA TABLE				
POINT	STATION	OFFSET	LOCATION	ALIGNMENT
100	3+24.84	54.80	LT	05-CIRCLE
101	3+55.47	27.29	RT	05-CIRCLE
102	1+82.63	27.57	RT	05-CIRCLE
103	3+49.97	44.20	RT	05-CIRCLE
104	3+66.10	41.29	RT	05-CIRCLE
105	1+93.86	41.89	RT	05-CIRCLE
106	1+76.90	44.76	RT	05-CIRCLE
107	1+89.38	26.45	RT	05-CIRCLE
108	3+62.25	26.35	RT	05-CIRCLE
109	1+02.43	39.28	RT	05-CIRCLE
110	2+59.19	45.90	RT	05-CIRCLE
200	105+64.23	27.48	RT	01-EB STH 60

DATA TABLE				
POINT	STATION	OFFSET	LOCATION	ALIGNMENT
201	106+22.21	39.01	RT	01-EB STH 60
202	106+19.53	49.08	RT	01-EB STH 60
203	106+03.61	47.52	RT	01-EB STH 60
204	106+04.33	39.86	RT	01-EB STH 60
205	105+84.92	38.00	RT	01-EB STH 60
206	106+03.16	64.68	RT	01-EB STH 60
207	106+14.70	65.82	RT	01-EB STH 60
208	106+41.53	44.11	RT	01-EB STH 60
209	107+06.22	32.33	RT	01-EB STH 60
210	107+14.42	31.53	RT	01-EB STH 60
211	107+25.51	20.52	RT	01-EB STH 60
212	106+85.20	21.79	RT	01-EB STH 60



DATA TABLE				
POINT	STATION	OFFSET	LOCATION	ALIGNMENT
213	107+93.59	4.00	LT	01-EB STH 60
214	107+79.01	37.41	RT	01-EB STH 60
215	107+19.22	81.29	RT	01-EB STH 60
217	109+98.24	123.24	RT	01-EB STH 60
218	109+62.59	109.00	RT	01-EB STH 60
219	110+14.06	32.30	RT	01-EB STH 60
220	110+35.56	22.02	RT	01-EB STH 60
221	109+56.16	6.00	LT	01-EB STH 60
239	105+87.36	5.00	LT	01-EB STH 60
243	105+72.87	18.00	RT	01-EB STH 60
244	105+85.13	18.07	RT	01-EB STH 60
247	106+42.10	24.16	RT	01-EB STH 60

DATA TABLE				
POINT	STATION	OFFSET	LOCATION	ALIGNMENT
308	109+77.29	37.54	LT	02-WB STH 60
309	110+24.69	20.52	LT	02-WB STH 60
310	110+36.11	31.57	LT	02-WB STH 60
311	110+43.96	32.33	LT	02-WB STH 60
312	110+64.97	21.79	LT	02-WB STH 60
313	109+56.61	4.00	RT	02-WB STH 60
324	111+33.22	23.95	LT	02-WB STH 60
325	110+35.23	18.93	LT	02-WB STH 60
326	109+75.20	26.64	LT	02-WB STH 60
327	110+18.65	32.64	LT	02-WB STH 60
328	110+31.31	81.34	LT	02-WB STH 60
329	107+55.58	31.19	LT	02-WB STH 60

NOTE: SEE ALIGNMENT DETAILS FOR
ADD'L POINTS ALONG CURB & GUTTER

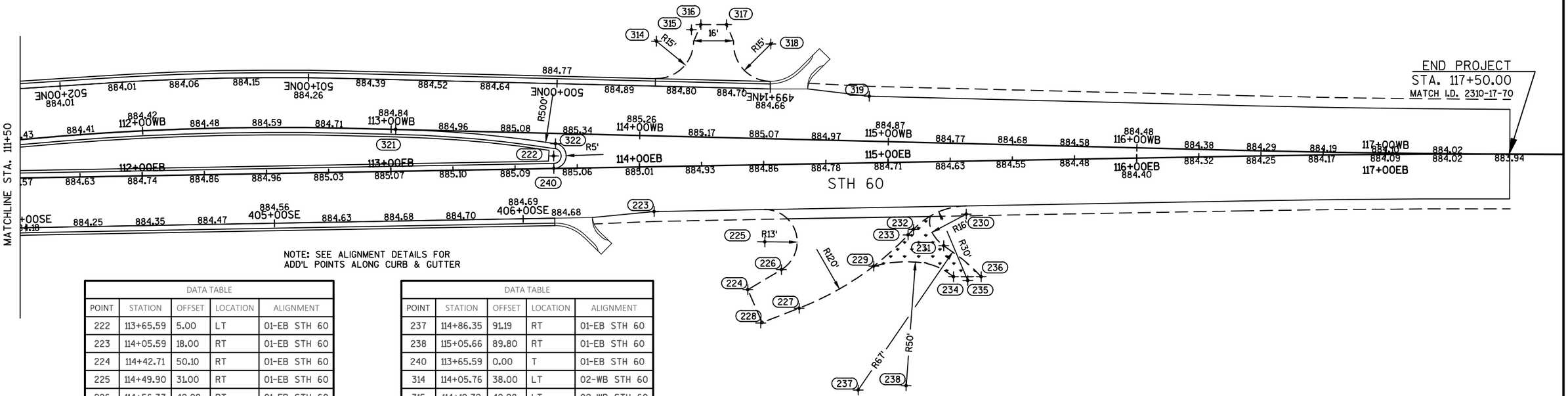
DATA TABLE				
POINT	STATION	OFFSET	LOCATION	ALIGNMENT
503	207+09.70	123.21	LT	04-SB CTH Y
504	207+58.57	86.24	LT	04-SB CTH Y
505	207+47.51	6.00	RT	04-SB CTH Y
506	209+09.83	4.00	RT	04-SB CTH Y
511	209+16.68	83.96	LT	04-SB CTH Y
512	206+97.52	31.89	LT	04-SB CTH Y
513	207+13.48	31.24	LT	04-SB CTH Y

DATA TABLE				
POINT	STATION	OFFSET	LOCATION	ALIGNMENT
248	111+33.07	23.18	RT	01-EB STH 60
249	107+15.57	18.87	RT	01-EB STH 60
250	107+80.68	26.47	RT	01-EB STH 60
252	107+11.45	119.53	RT	01-EB STH 60
253	107+29.75	32.29	RT	01-EB STH 60
254	109+94.13	31.30	RT	01-EB STH 60
255	111+33.72	0.00	T	01-EB STH 60
303	106+20.35	20.31	LT	02-WB STH 60
304	106+48.53	6.89	RT	02-WB STH 60
305	107+14.71	22.02	LT	02-WB STH 60
306	107+36.09	32.29	LT	02-WB STH 60
307	107+94.11	6.00	RT	02-WB STH 60

DATA TABLE				
POINT	STATION	OFFSET	LOCATION	ALIGNMENT
330	108+04.93	41.57	LT	02-WB STH 60
331	111+33.22	0.00	T	02-WB STH 60
400	209+09.44	6.00	LT	03-NB CTH Y
401	208+98.12	86.22	RT	03-NB CTH Y
402	209+13.73	125.51	RT	03-NB CTH Y
406	207+46.61	4.00	LT	03-NB CTH Y
407	206+59.43	32.30	RT	03-NB CTH Y
408	206+38.43	21.73	RT	03-NB CTH Y
410	206+69.32	31.31	RT	03-NB CTH Y
412	209+44.39	31.69	RT	03-NB CTH Y
501	206+70.63	22.03	LT	04-SB CTH Y
502	206+92.48	32.44	LT	04-SB CTH Y

2

N



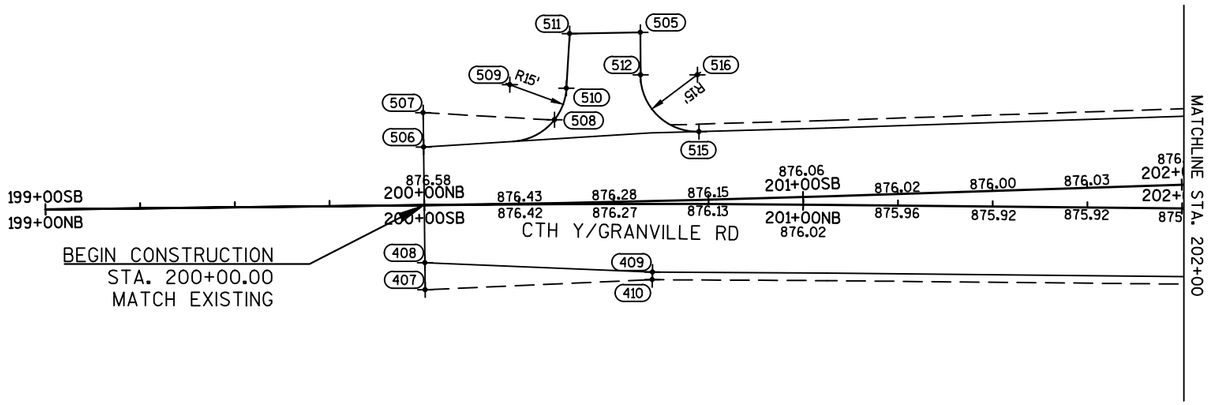
NOTE: SEE ALIGNMENT DETAILS FOR ADD'L POINTS ALONG CURB & GUTTER

DATA TABLE				
POINT	STATION	OFFSET	LOCATION	ALIGNMENT
222	113+65.59	5.00	LT	01-EB STH 60
223	114+05.59	18.00	RT	01-EB STH 60
224	114+42.71	50.10	RT	01-EB STH 60
225	114+49.90	31.00	RT	01-EB STH 60
226	114+56.37	42.28	RT	01-EB STH 60
227	114+63.22	57.90	RT	01-EB STH 60
228	114+48.21	63.41	RT	01-EB STH 60
229	114+93.50	41.52	RT	01-EB STH 60
230	115+31.09	21.32	RT	01-EB STH 60
231	115+21.76	33.86	RT	01-EB STH 60
232	115+09.78	26.99	RT	01-EB STH 60
233	115+07.53	29.28	RT	01-EB STH 60
234	115+25.52	46.39	RT	01-EB STH 60
235	115+31.19	48.00	RT	01-EB STH 60
236	115+36.64	46.59	RT	01-EB STH 60

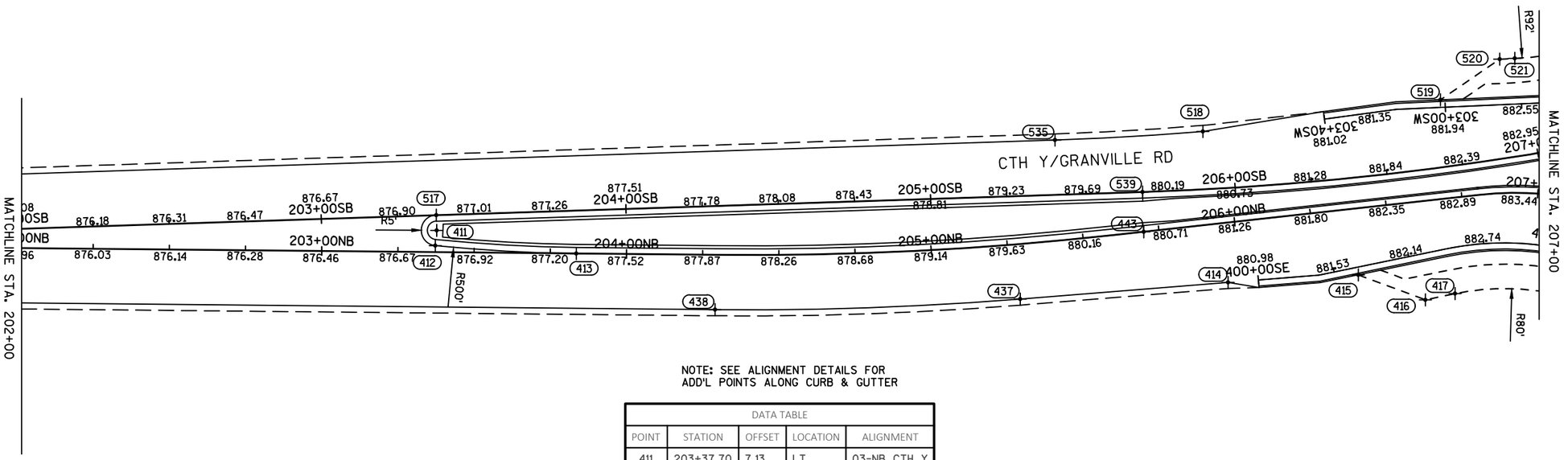
DATA TABLE				
POINT	STATION	OFFSET	LOCATION	ALIGNMENT
237	114+86.35	91.19	RT	01-EB STH 60
238	115+05.66	89.80	RT	01-EB STH 60
240	113+65.59	0.00	T	01-EB STH 60
314	114+05.76	38.00	LT	02-WB STH 60
315	114+19.72	42.98	LT	02-WB STH 60
316	114+23.47	45.15	LT	02-WB STH 60
317	114+33.85	45.41	LT	02-WB STH 60
318	114+51.79	38.01	LT	02-WB STH 60
319	114+91.92	18.00	LT	02-WB STH 60
321	113+01.84	0.00	T	02-WB STH 60
322	113+66.25	4.17	RT	02-WB STH 60

N

DATA TABLE				
POINT	STATION	OFFSET	LOCATION	ALIGNMENT
407	200+00.00	22.30	RT	03-NB CTH Y
408	200+00.00	15.18	RT	03-NB CTH Y
409	200+60.23	18.00	RT	03-NB CTH Y
410	200+60.15	20.00	RT	03-NB CTH Y
505	200+58.05	44.62	LT	04-SB CTH Y
506	200+00.00	15.36	LT	04-SB CTH Y
507	200+00.00	24.42	LT	04-SB CTH Y
508	200+34.76	22.02	LT	04-SB CTH Y
509	200+23.05	31.47	LT	04-SB CTH Y
510	200+38.09	30.27	LT	04-SB CTH Y
511	200+39.24	44.68	LT	04-SB CTH Y
512	200+57.85	33.38	LT	04-SB CTH Y
515	200+72.97	18.04	LT	04-SB CTH Y
516	200+72.95	33.07	LT	04-SB CTH Y



NOTE: SEE ALIGNMENT DETAILS FOR
ADD'L POINTS ALONG CURB & GUTTER



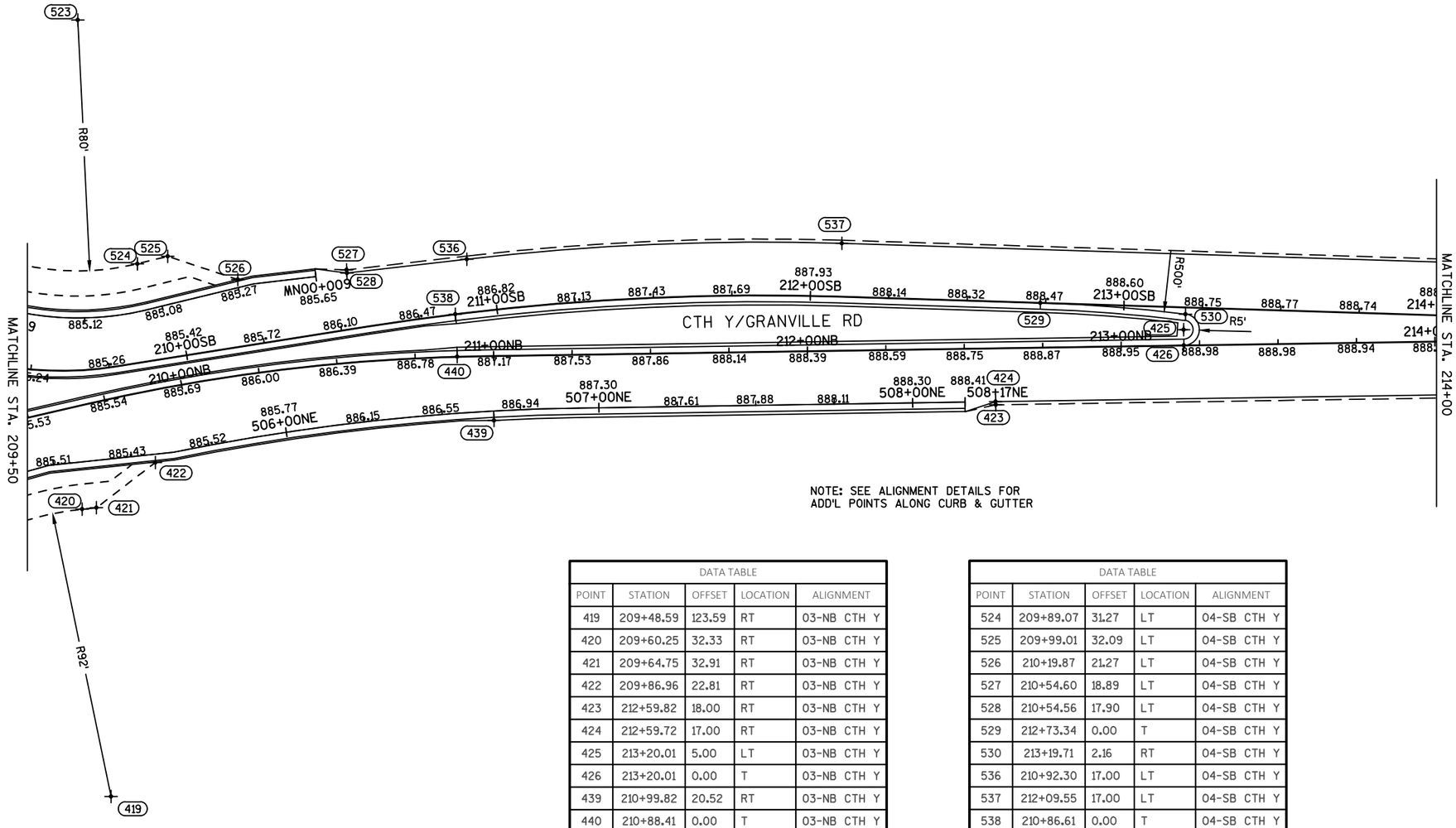
NOTE: SEE ALIGNMENT DETAILS FOR
ADD'L POINTS ALONG CURB & GUTTER

418

DATA TABLE

POINT	STATION	OFFSET	LOCATION	ALIGNMENT
411	203+37.70	7.13	LT	03-NB CTH Y
412	203+37.23	2.15	LT	03-NB CTH Y
413	203+83.51	0.00	T	03-NB CTH Y
414	205+95.68	19.54	RT	03-NB CTH Y
415	206+38.43	21.73	RT	03-NB CTH Y
416	206+59.43	32.30	RT	03-NB CTH Y
417	206+69.35	31.36	RT	03-NB CTH Y
418	206+76.90	110.99	RT	03-NB CTH Y
437	205+27.84	18.00	RT	03-NB CTH Y
438	204+29.26	18.00	RT	03-NB CTH Y
443	205+70.00	0.00	T	03-NB CTH Y
517	203+37.74	0.00	T	04-SB CTH Y
518	205+90.40	18.97	LT	04-SB CTH Y
519	206+70.63	22.03	LT	04-SB CTH Y
520	206+92.48	32.44	LT	04-SB CTH Y
521	206+97.53	31.88	LT	04-SB CTH Y
535	205+41.42	18.00	LT	04-SB CTH Y
539	205+69.58	0.00	RT	04-SB CTH Y

2



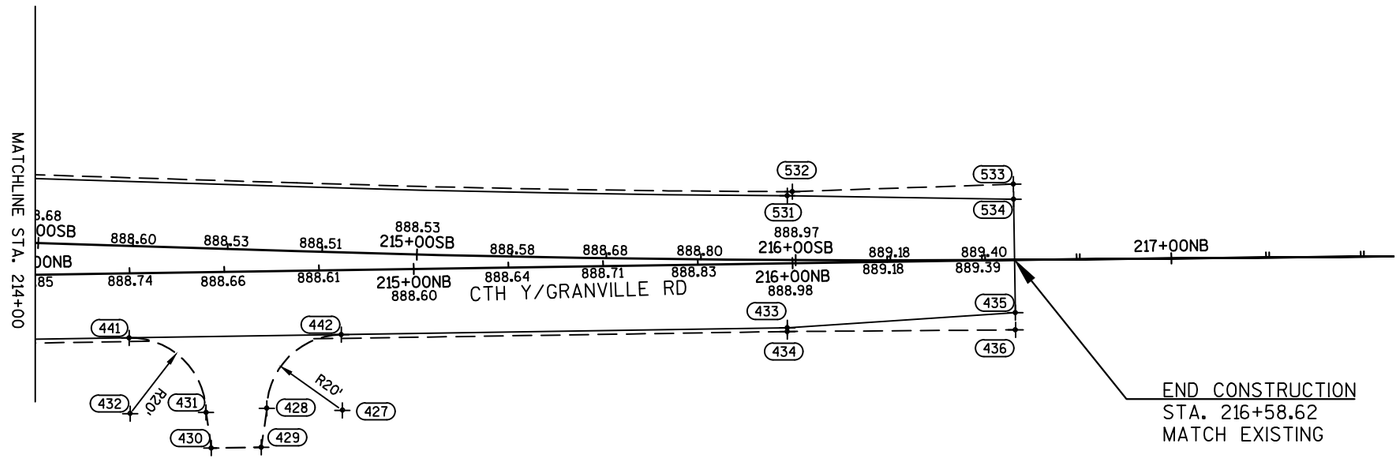
NOTE: SEE ALIGNMENT DETAILS FOR
ADD'L POINTS ALONG CURB & GUTTER

DATA TABLE				
POINT	STATION	OFFSET	LOCATION	ALIGNMENT
419	209+48.59	123.59	RT	03-NB CTH Y
420	209+60.25	32.33	RT	03-NB CTH Y
421	209+64.75	32.91	RT	03-NB CTH Y
422	209+86.96	22.81	RT	03-NB CTH Y
423	212+59.82	18.00	RT	03-NB CTH Y
424	212+59.72	17.00	RT	03-NB CTH Y
425	213+20.01	5.00	LT	03-NB CTH Y
426	213+20.01	0.00	T	03-NB CTH Y
439	210+99.82	20.52	RT	03-NB CTH Y
440	210+88.41	0.00	T	03-NB CTH Y
523	209+82.49	111.00	LT	04-SB CTH Y

DATA TABLE				
POINT	STATION	OFFSET	LOCATION	ALIGNMENT
524	209+89.07	31.27	LT	04-SB CTH Y
525	209+99.01	32.09	LT	04-SB CTH Y
526	210+19.87	21.27	LT	04-SB CTH Y
527	210+54.60	18.89	LT	04-SB CTH Y
528	210+54.56	17.90	LT	04-SB CTH Y
529	212+73.34	0.00	T	04-SB CTH Y
530	213+19.71	2.16	RT	04-SB CTH Y
536	210+92.30	17.00	LT	04-SB CTH Y
537	212+09.55	17.00	LT	04-SB CTH Y
538	210+86.61	0.00	T	04-SB CTH Y

2

N



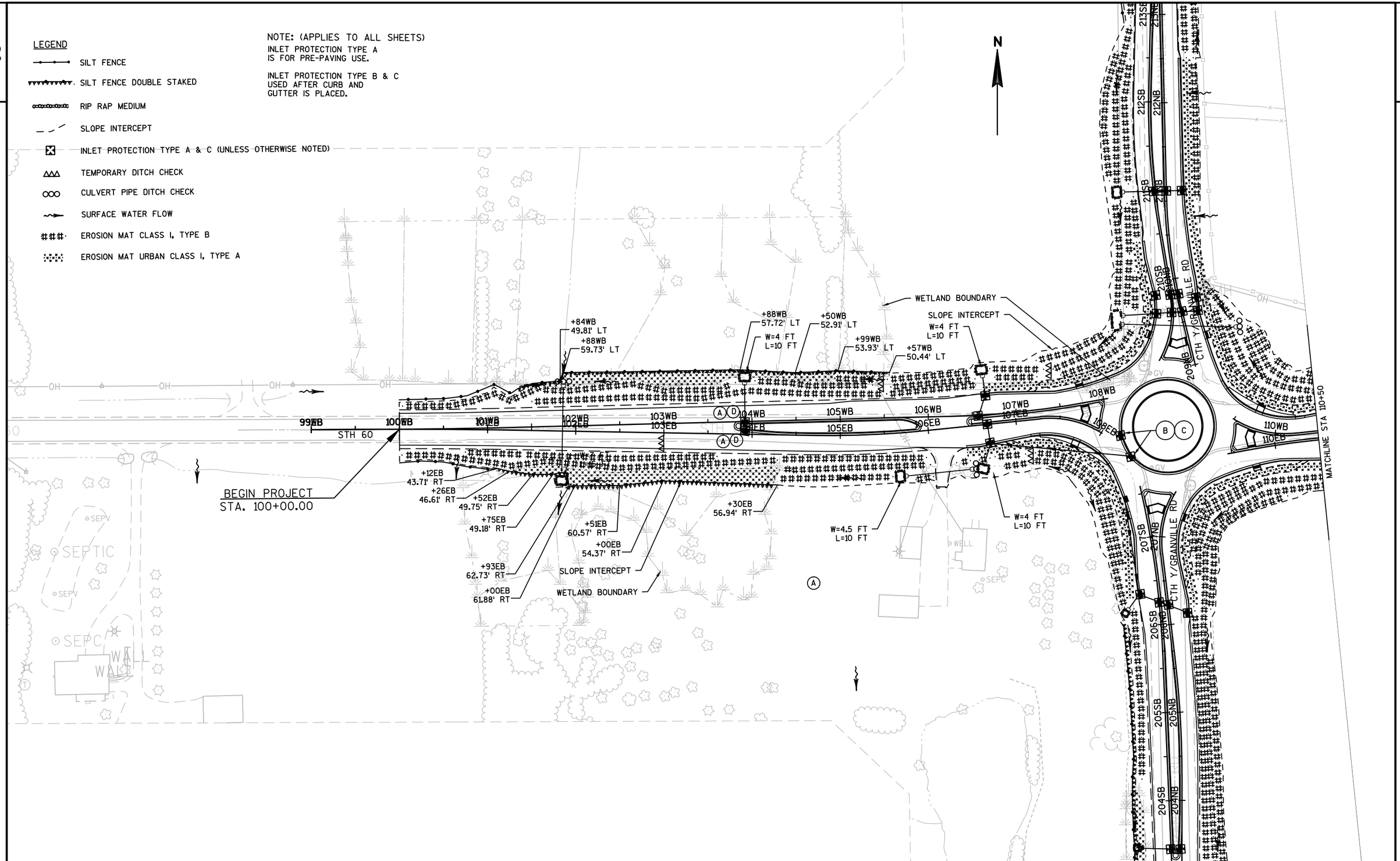
DATA TABLE				
POINT	STATION	OFFSET	LOCATION	ALIGNMENT
427	214+80.64	36.98	RT	03-NB CTH Y
428	214+60.64	36.14	RT	03-NB CTH Y
429	214+59.07	46.45	RT	03-NB CTH Y
430	214+45.87	46.42	RT	03-NB CTH Y
431	214+44.64	37.00	RT	03-NB CTH Y
432	214+24.60	36.99	RT	03-NB CTH Y
433	215+98.35	17.00	RT	03-NB CTH Y
434	215+98.35	18.00	RT	03-NB CTH Y
435	216+58.73	13.91	RT	03-NB CTH Y
436	216+58.69	18.47	RT	03-NB CTH Y
441	214+24.60	17.00	RT	03-NB CTH Y
442	214+80.62	17.00	RT	03-NB CTH Y
531	215+97.68	17.00	LT	04-SB CTH Y
532	215+99.00	18.05	LT	04-SB CTH Y
533	216+57.60	20.00	LT	04-SB CTH Y
534	216+57.63	16.02	LT	04-SB CTH Y

LEGEND

- SILT FENCE
- SILT FENCE DOUBLE STAKED
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A & C (UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW
- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE A

NOTE: (APPLIES TO ALL SHEETS)
INLET PROTECTION TYPE A
IS FOR PRE-PAVING USE.

INLET PROTECTION TYPE B & C
USED AFTER CURB AND
GUTTER IS PLACED.



PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	EROSION CONTROL	SHEET 33	E

2

N

W=5 FT
L=10 FT

SLOPE
INTERCEPT

WETLAND BOUNDARY

MATCHLINE STA 110+50

111WB
111EB
112WB
112EB
113WB
113EB
114WB
114EB
115WB
115EB
116WB
116EB
117WB
118WB

STH 60

OH

ROADSIDE MEMORIAL

WALL

SLOPE INTERCEPT

SLAB

W=4 FT
L=10 FT

EXISTING DRAINTILE ACCEPTING
FLOW, DRAINING TO SOUTH

ATHLETIC FIELD

LEGEND

- SILT FENCE
- SILT FENCE DOUBLE STAKED
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A & C (UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW
- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE A

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	EROSION CONTROL	SHEET 34	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\SHEETSPLAN\022001_EC.DWG PLOT DATE : 4/25/2018 12:58 PM PLOT BY : KATIE NAKLES PLOT NAME :

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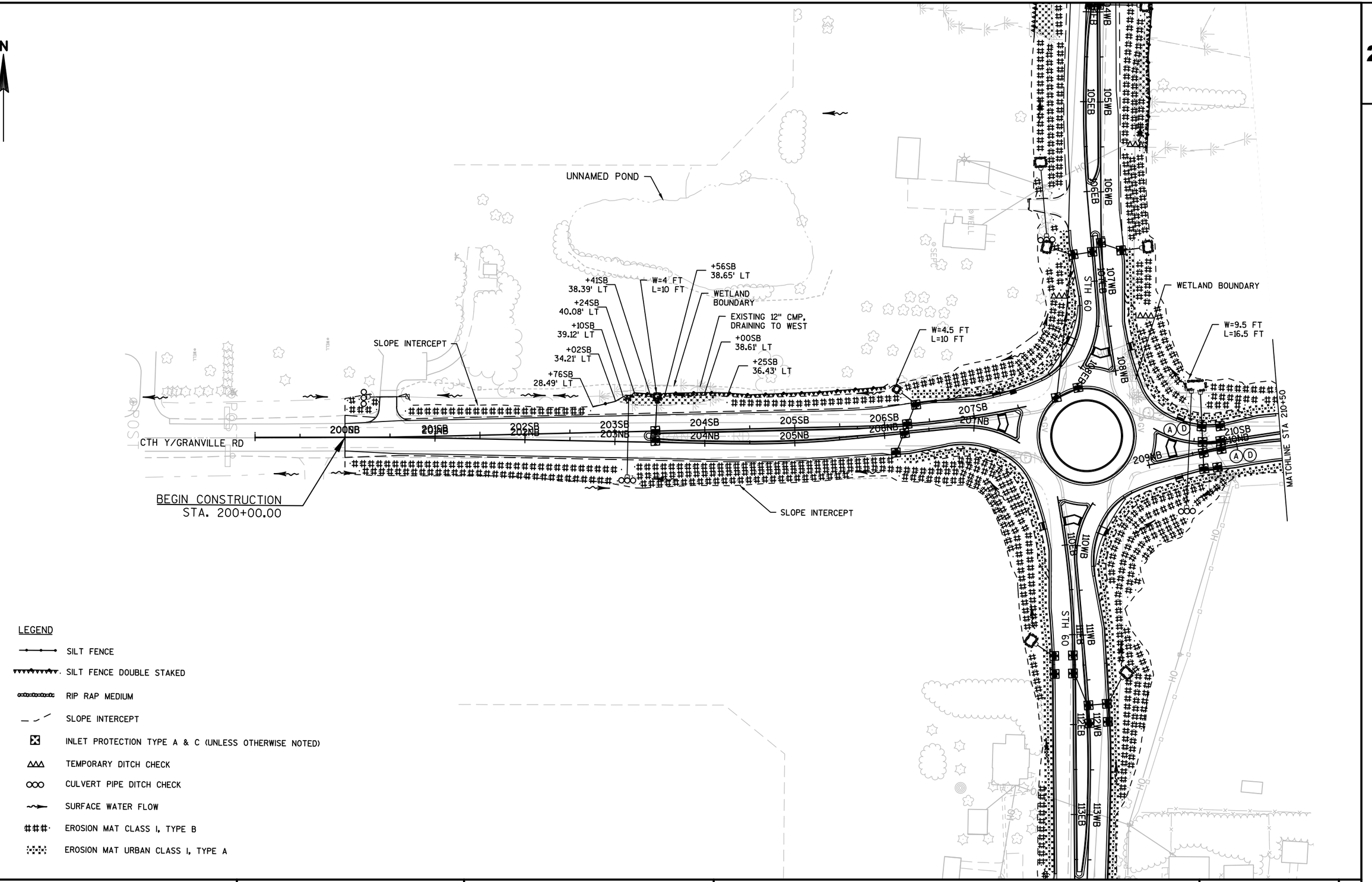
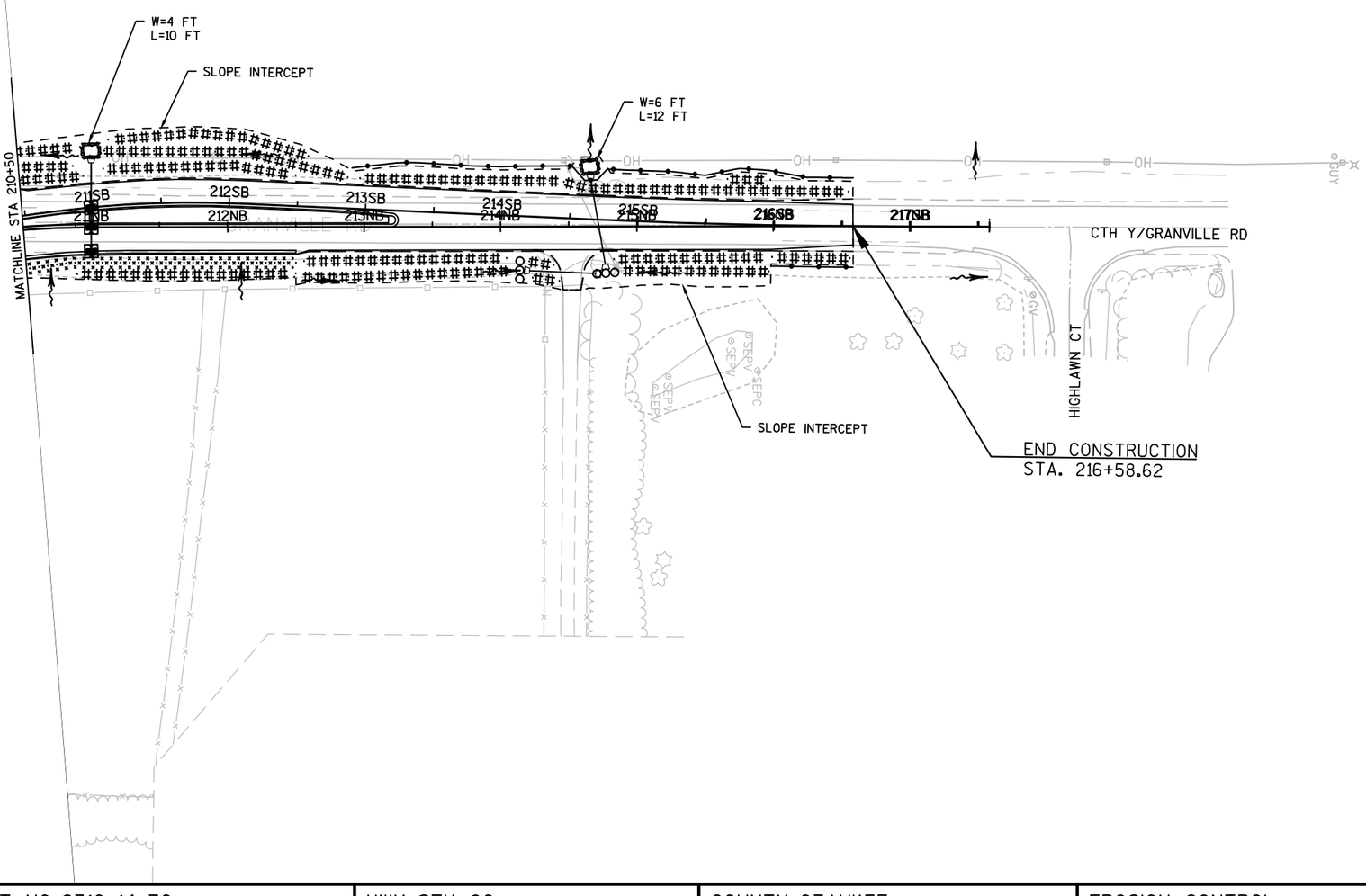


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	EROSION CONTROL	SHEET 35	E

2

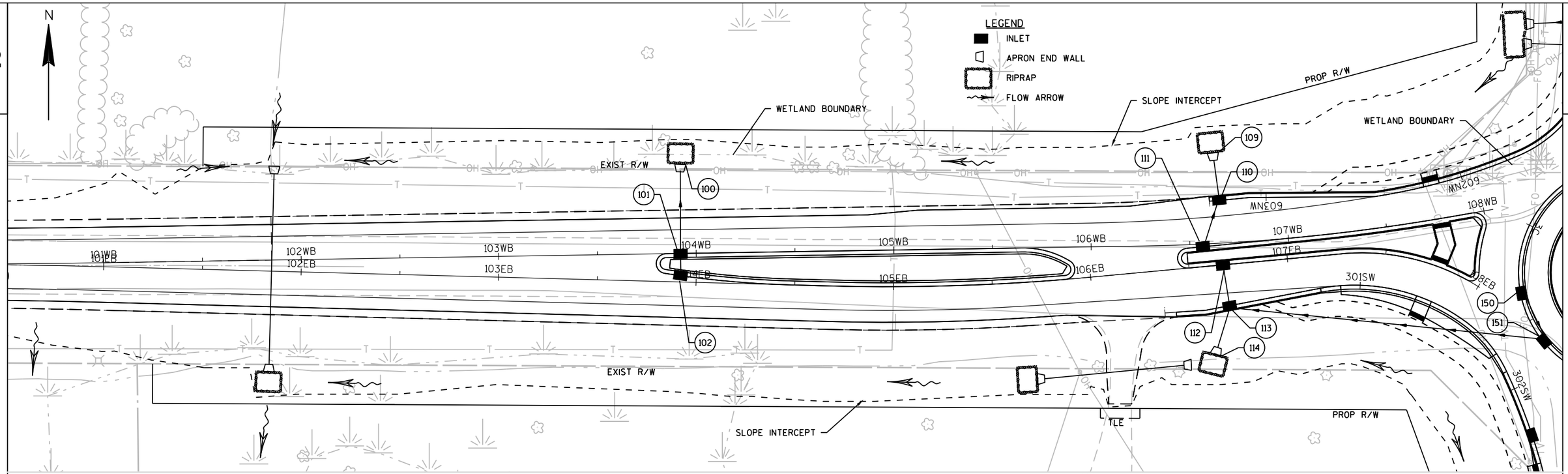
N

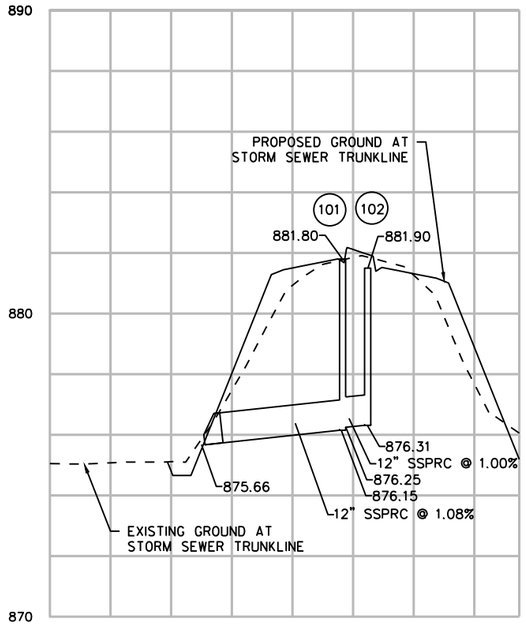


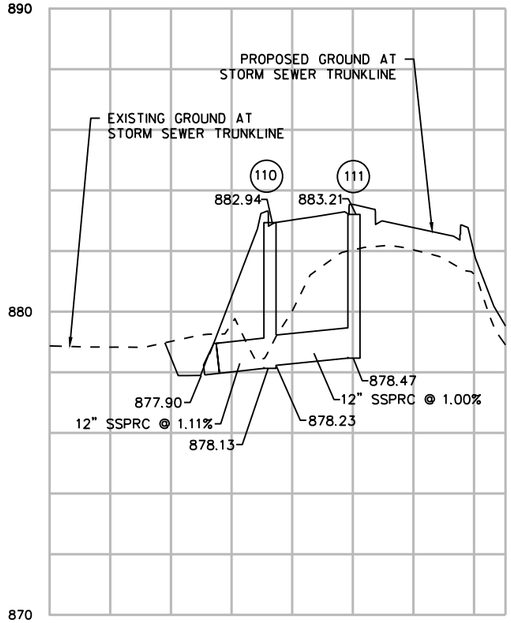
LEGEND

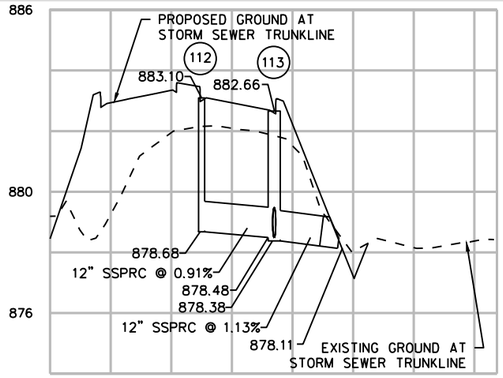
- SILT FENCE
- SILT FENCE DOUBLE STAKED
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A & C (UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW
- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE A

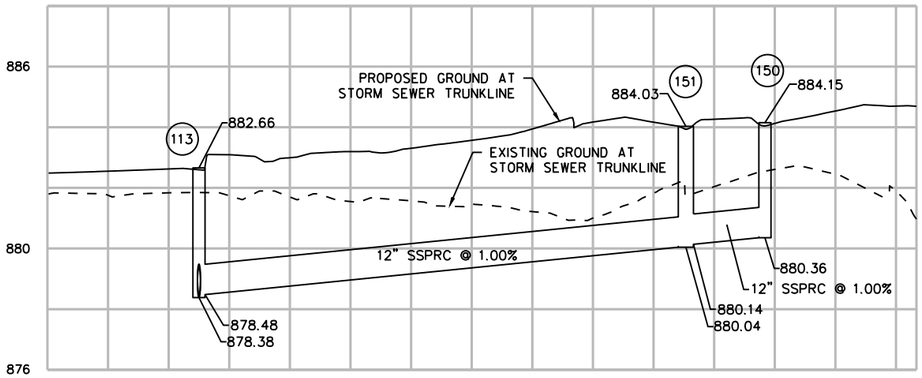
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	EROSION CONTROL	SHEET 36	E











PROJECT NO:2310-14-70	HWY:STH 60	COUNTY:OZAUKEE	STORM SEWER	SHEET 37	E

2

LEGEND
- INLET
- APRON END WALL
- RIPRAP
- FLOW ARROW

N

STH 60

SLOPE INTERCEPT

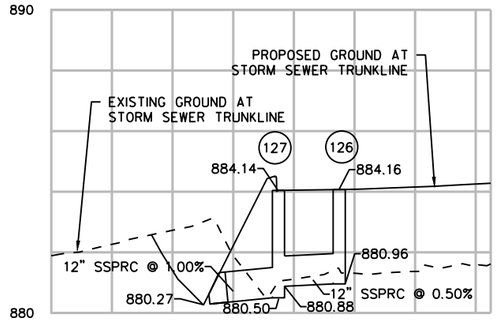
EXIST R/W

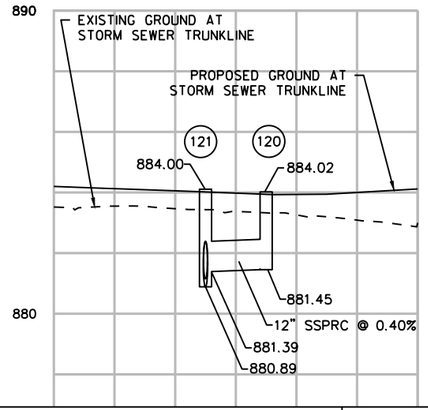
TLE

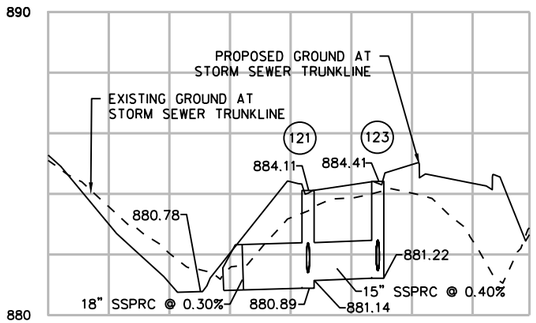
PROP R/W

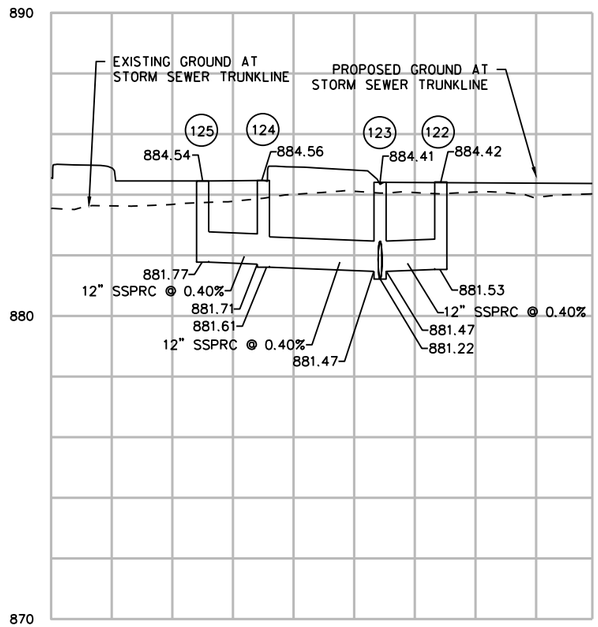
CAUTION

SLAB

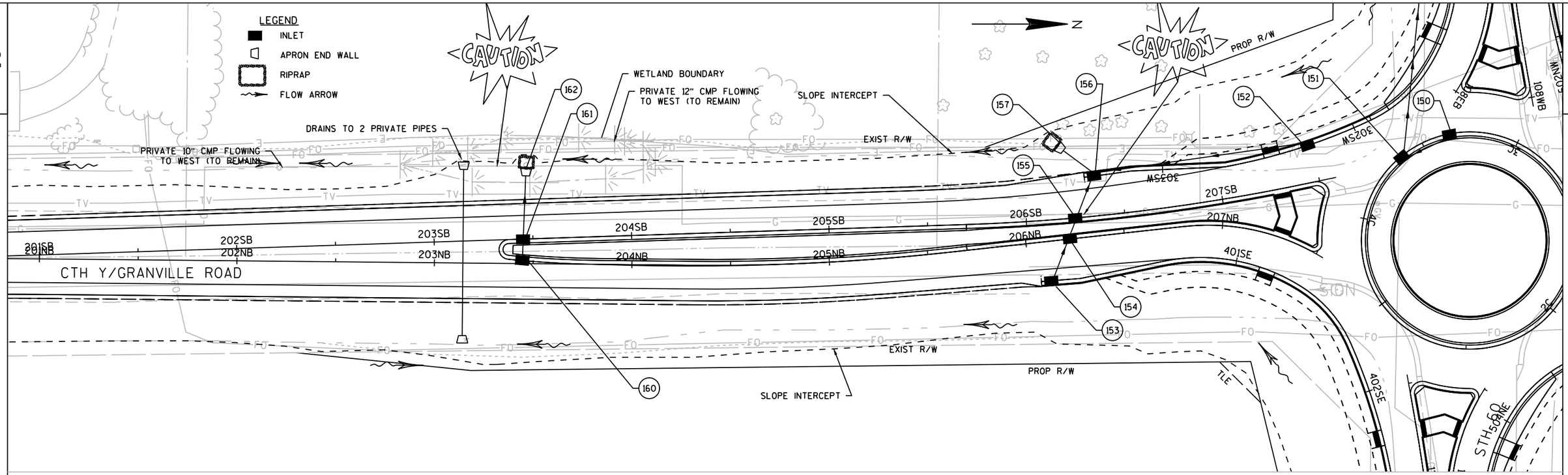


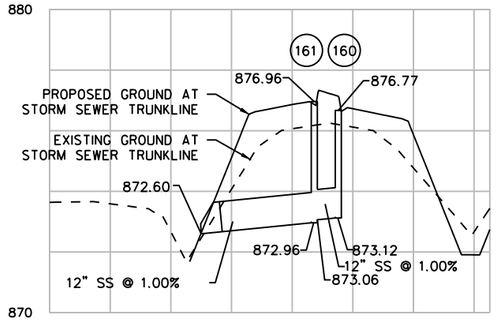


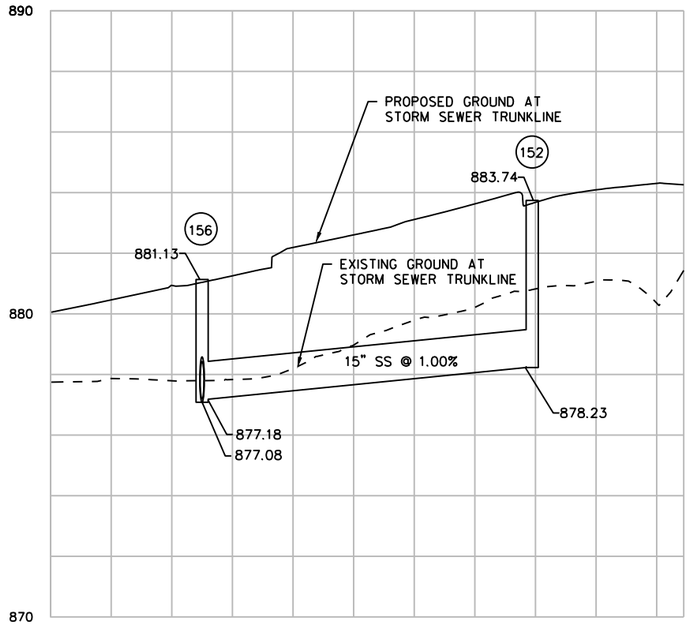


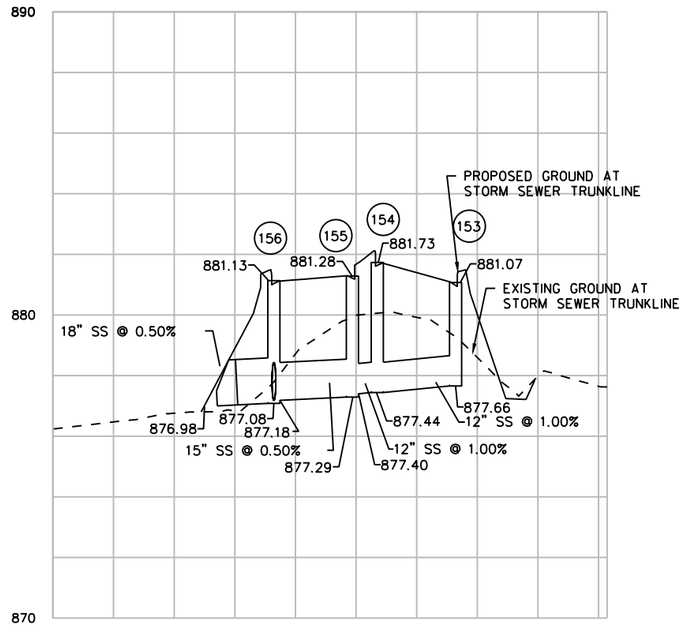


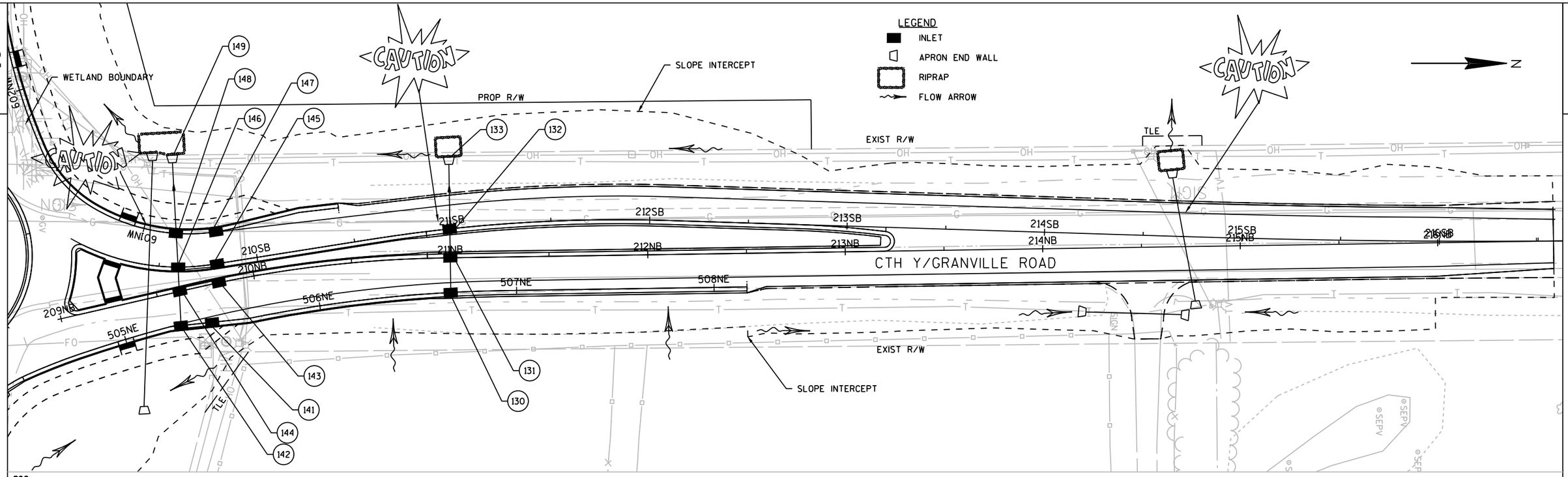
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	STORM SEWER	SHEET 38	E


LEGEND
INLET
APRON END WALL
RIPRAP
FLOW ARROW
N
CAUTION
CAUTION
WETLAND BOUNDARY
PRIVATE 12" CMP FLOWING TO WEST (TO REMAIN)
SLOPE INTERCEPT
DRAINS TO 2 PRIVATE PIPES
PRIVATE 10" CMP FLOWING TO WEST (TO REMAIN)
EXIST R/W
PROP R/W
CTH Y/GRANVILLE ROAD
STH 60
201SB
201NB
202SB
202NB
203SB
203NB
204SB
204NB
205SB
205NB
206SB
206NB
207SB
207NB
401SE
402SE
302SW
302SE
308SB
308NB
302NW
160
161
162
151
152
153
154
155
156
157


880
870
161
160
876.96
876.77
PROPOSED GROUND AT STORM SEWER TRUNKLINE
EXISTING GROUND AT STORM SEWER TRUNKLINE
872.60
872.96
873.12
873.06
12" SS @ 1.00%
12" SS @ 1.00%


890
880
870
PROPOSED GROUND AT STORM SEWER TRUNKLINE
152
883.74
156
881.13
EXISTING GROUND AT STORM SEWER TRUNKLINE
15" SS @ 1.00%
878.23
877.18
877.08


890
880
870
PROPOSED GROUND AT STORM SEWER TRUNKLINE
156
155
154
153
881.13
881.28
881.73
881.07
EXISTING GROUND AT STORM SEWER TRUNKLINE
18" SS @ 0.50%
876.98
877.08
877.18
877.44
877.66
12" SS @ 1.00%
15" SS @ 0.50%
877.29
12" SS @ 1.00%
877.40


LEGEND
INLET
APRON END WALL
RIPRAP
FLOW ARROW
N
CAUTION
CAUTION
CAUTION
WETLAND BOUNDARY
PROP R/W
SLOPE INTERCEPT
EXIST R/W
TLE
CTH Y/GRANVILLE ROAD
MN109
209NB
210SB
210NB
211SB
211NB
212SB
212NB
213SB
213NB
214SB
214NB
215SB
215NB
505NE
506NE
507NE
508NE
130
131
132
133
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142
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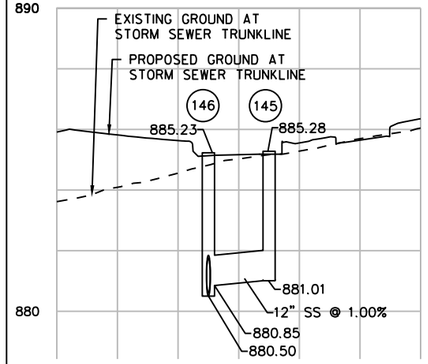
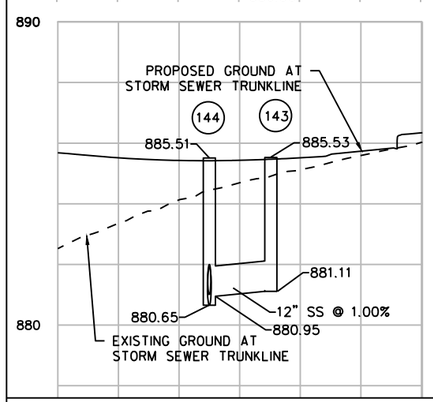
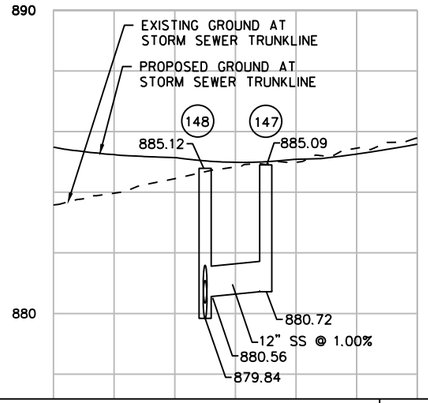
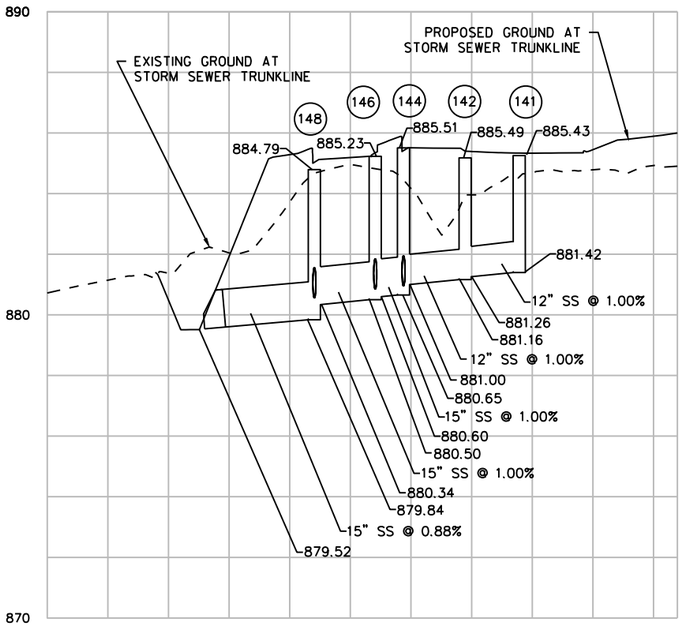
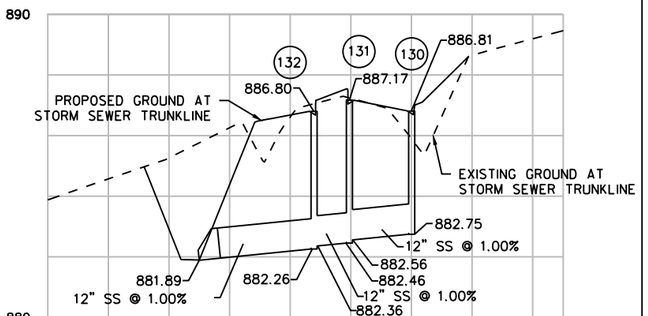
145
146
147
148
149


890
880
EXISTING GROUND AT STORM SEWER TRUNKLINE
PROPOSED GROUND AT STORM SEWER TRUNKLINE
146
145
885.23
885.28
881.01
12" SS @ 1.00%
880.85
880.50


890
880
PROPOSED GROUND AT STORM SEWER TRUNKLINE
144
143
885.51
885.53
881.11
880.65
12" SS @ 1.00%
880.95
EXISTING GROUND AT STORM SEWER TRUNKLINE

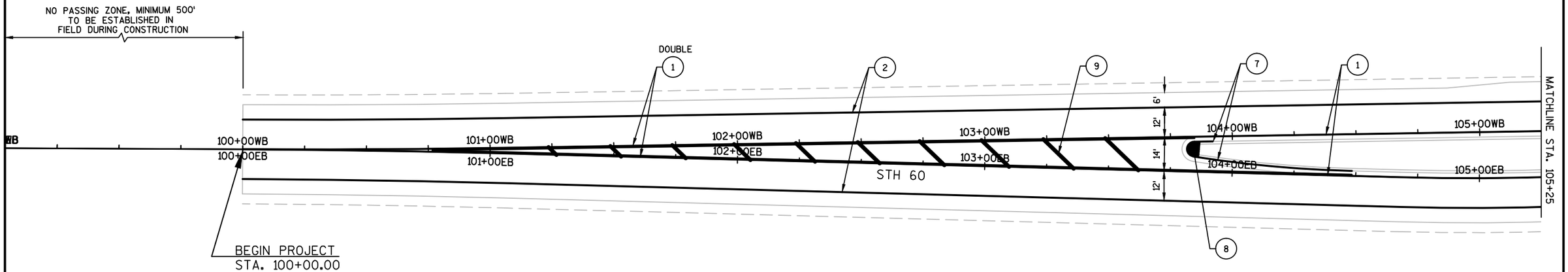

890
880
EXISTING GROUND AT STORM SEWER TRUNKLINE
PROPOSED GROUND AT STORM SEWER TRUNKLINE
148
147
885.12
885.09
880.72
12" SS @ 1.00%
880.56
879.84


890
880
870
EXISTING GROUND AT STORM SEWER TRUNKLINE
PROPOSED GROUND AT STORM SEWER TRUNKLINE
148
146
144
142
141
884.79
885.23
885.51
885.49
885.43
881.42
12" SS @ 1.00%
881.26
881.16
12" SS @ 1.00%
881.00
880.65
15" SS @ 1.00%
880.60
880.50
15" SS @ 1.00%
880.34
879.84
15" SS @ 0.88%
879.52


890
880
PROPOSED GROUND AT STORM SEWER TRUNKLINE
132
131
130
886.80
887.17
886.81
EXISTING GROUND AT STORM SEWER TRUNKLINE
882.75
12" SS @ 1.00%
882.56
882.46
12" SS @ 1.00%
882.36
881.89
12" SS @ 1.00%
882.26

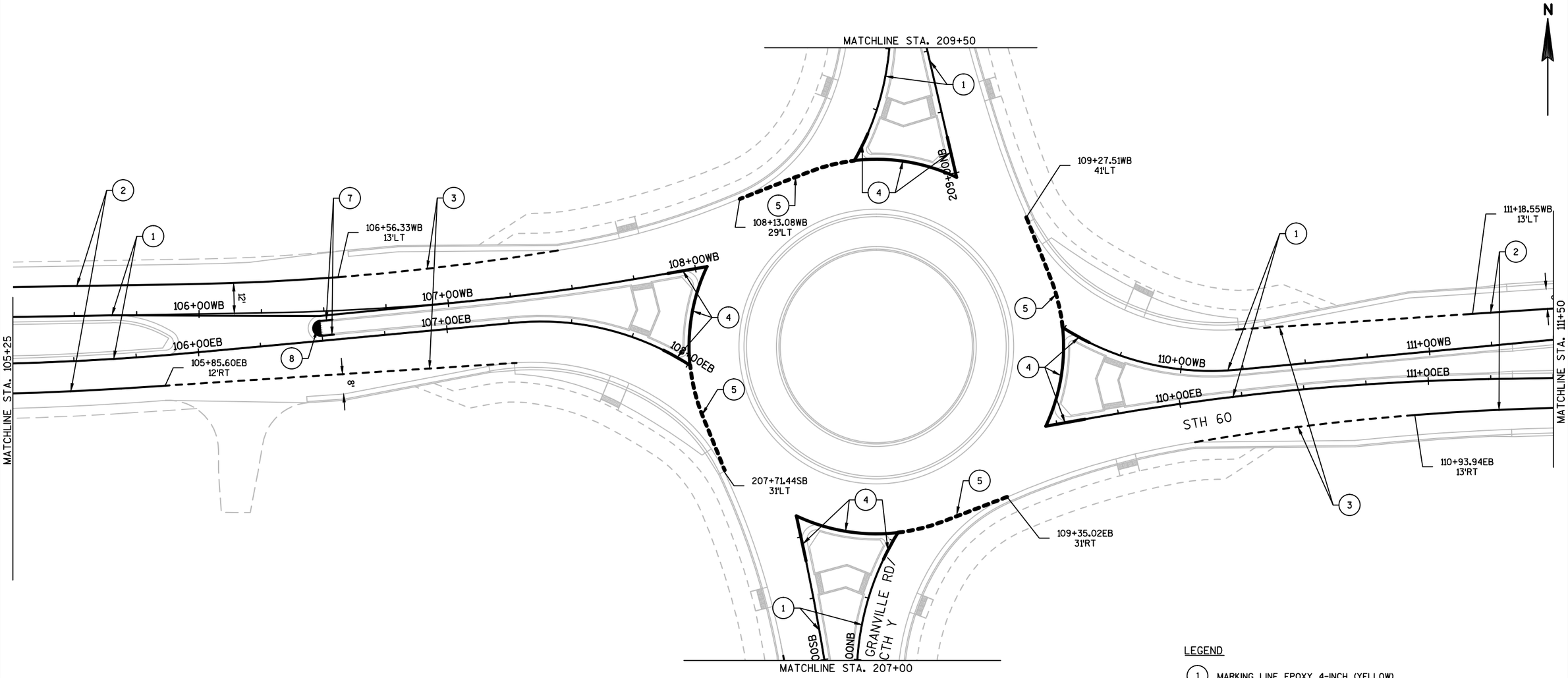
2

N



LEGEND

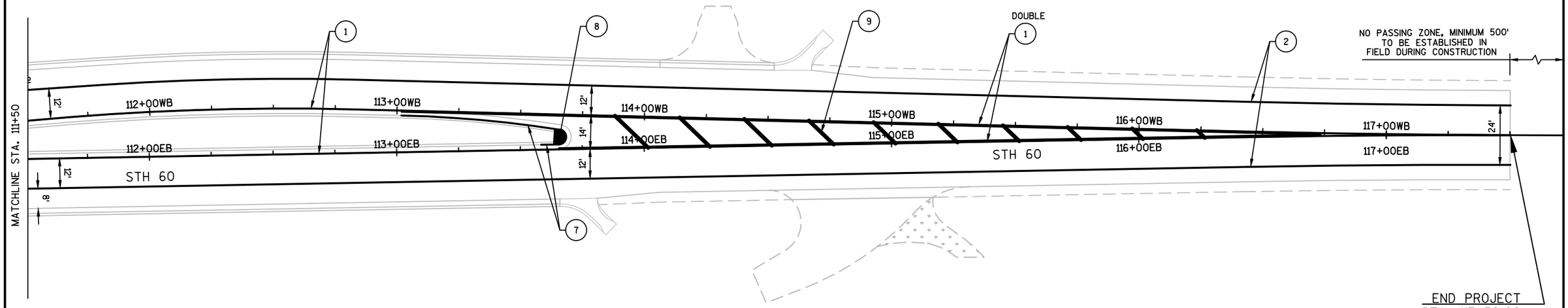
1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (WHITE) (3 FT LINE 9 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE) (2 FT LINE 2 FT SKIP)
7. MARKING CURB EPOXY (YELLOW)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25' C-C)



LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (WHITE) (3 FT LINE 9 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE) (2 FT LINE 2 FT SKIP)
7. MARKING CURB EPOXY (YELLOW)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25' C-C)

2

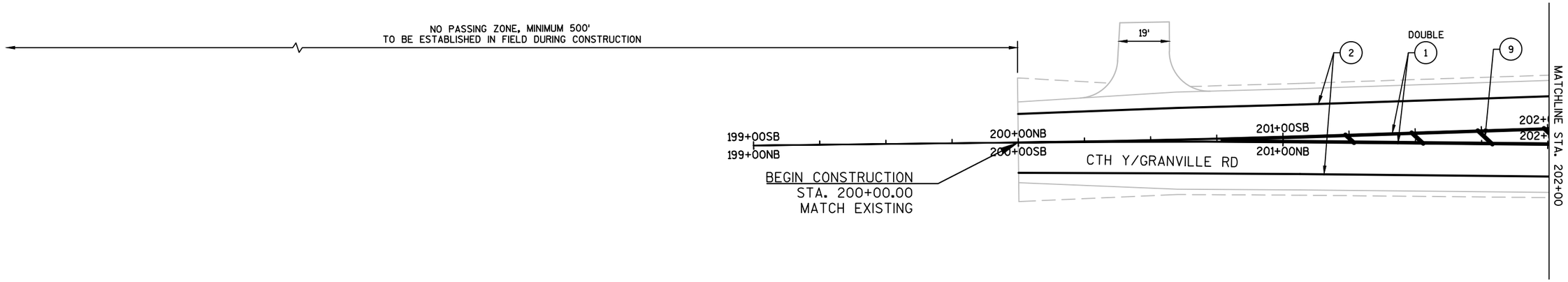


LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (WHITE) (3 FT LINE 9 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE) (2 FT LINE 2 FT SKIP)
7. MARKING CURB EPOXY (YELLOW)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25' C-C)

2

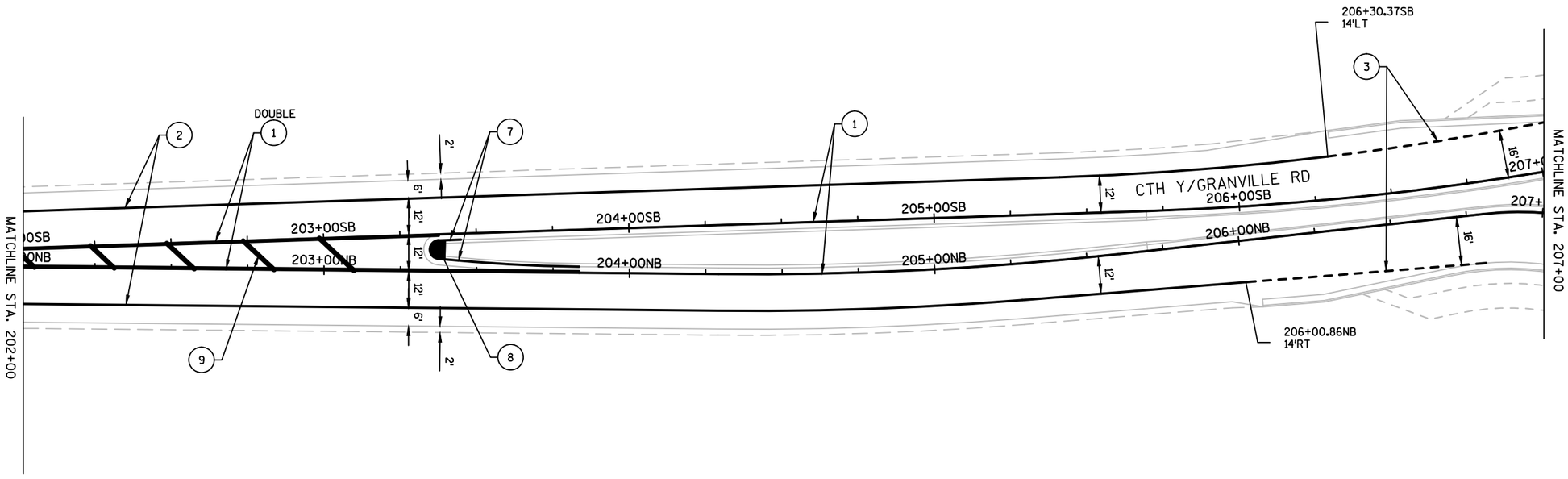
N



LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (WHITE) (3 FT LINE 9 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE) (2 FT LINE 2 FT SKIP)
7. MARKING CURB EPOXY (YELLOW)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25' C-C)

2



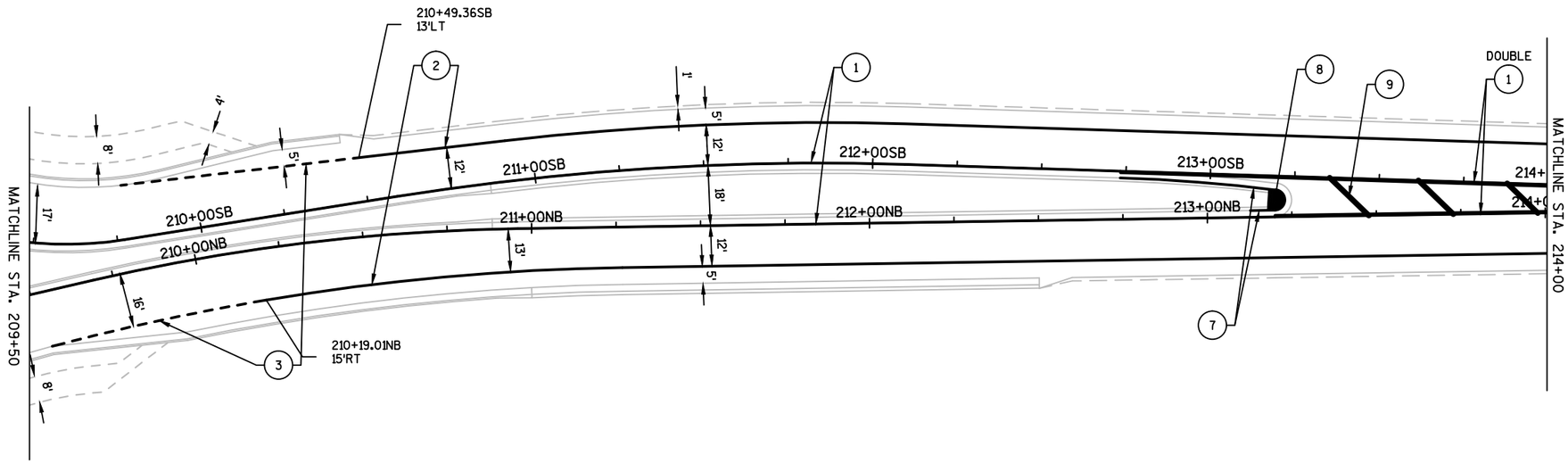
LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (WHITE) (3 FT LINE 9 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE) (2 FT LINE 2 FT SKIP)
7. MARKING CURB EPOXY (YELLOW)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25' C-C)

LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (WHITE) (3 FT LINE 9 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE) (2 FT LINE 2 FT SKIP)
7. MARKING CURB EPOXY (YELLOW)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25' C-C)

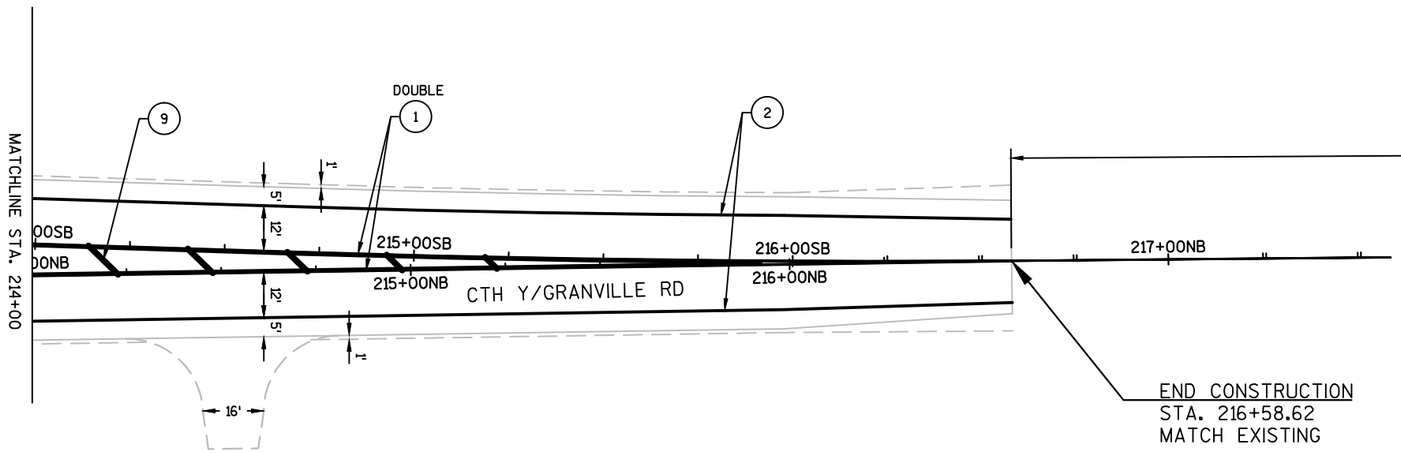
N



LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (WHITE) (3 FT LINE 9 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE) (2 FT LINE 2 FT SKIP)
7. MARKING CURB EPOXY (YELLOW)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25' C-C)

N



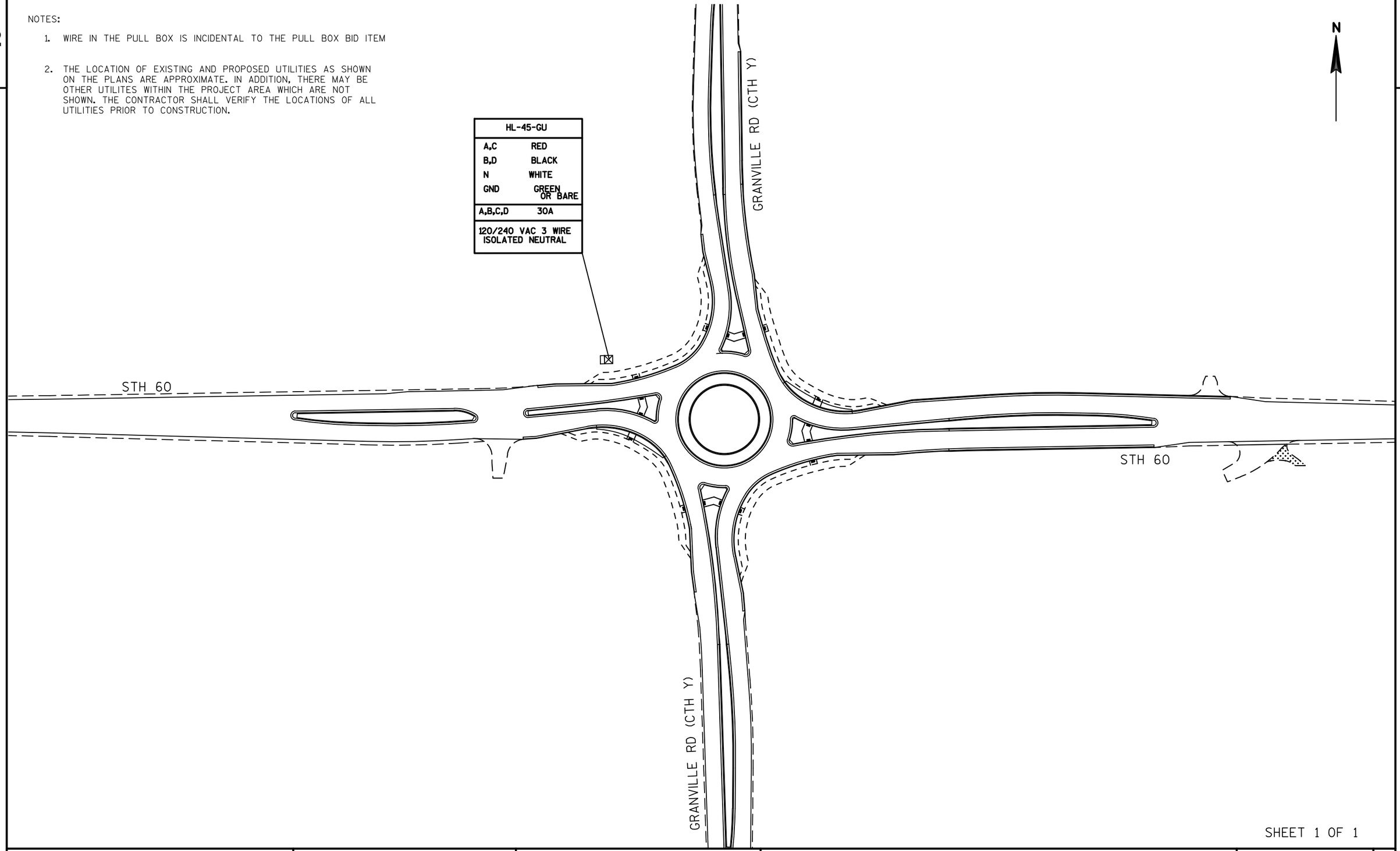
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 47	E

NOTES:

1. WIRE IN THE PULL BOX IS INCIDENTAL TO THE PULL BOX BID ITEM

2. THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

HL-45-GU	
A,C	RED
B,D	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	30A
120/240 VAC 3 WIRE ISOLATED NEUTRAL	



SHEET 1 OF 1

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	OVERVIEW - LIGHTING	SHEET 48 E

FILE NAME : N:\PDS\C3D\CAD\23101400\LTG\023501_LP.DWG
LAYOUT NAME - 023500_LP

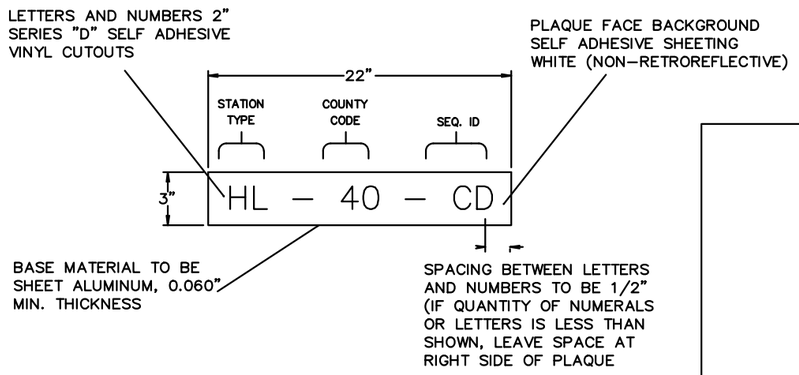
PLOT DATE : 8/14/2019 11:28 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

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 SPECIAL PROVISIONS.

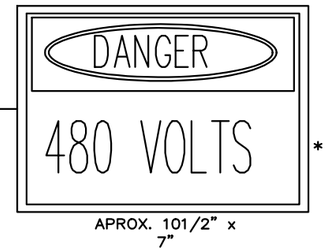


DISTRIBUTION CENTER
IDENTIFICATION PLAQUE

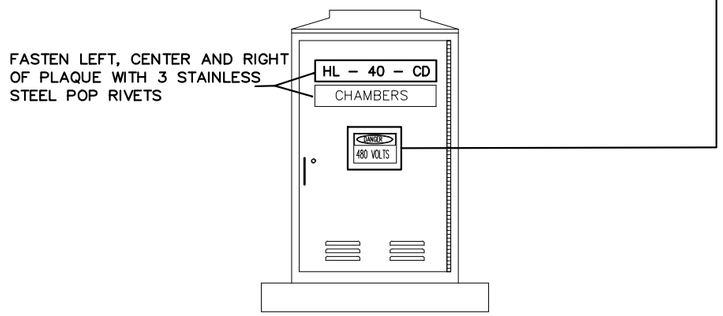
CHAMBERS

MNEMONIC
(SEE MISC. QTYS.)
(NO. OF CHARACTERS VARIES
THIRD PLAQUE MAY BE
NECESSARY)

TWO REQUIRED CABINET AND METER PEDESTALS



*SOME LOCATIONS WILL BE 240 VOLTS



DISTRIBUTION CENTER IDENTIFICATION PLAQUE
REQUIREMENTS AND PLACEMENTS
(TYPICAL ALL CONTROL CABINETS)

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	LIGHTING DETAIL - CABINET PLAQUES	SHEET 49	E

2

GENERAL NOTES:

HIGHWAY LIGHTING SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 652 TO 657 AND 659 EXCEPT:

1. DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THESE DRAWINGS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.
2. LOCATIONS OF THE PVC CONDUITS ARE INDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. HOWEVER, INSTALLATION WILL REQUIRE INTEGRATION WITH EXISTING FIELD CONDITIONS. UNDER THE APPROVAL OF THE ENGINEER, APPROPRIATE ADJUSTMENT OF CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED TO ILLUSTRATE AS BUILT CONDITIONS.
3. THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.
4. ALL OPEN AND UNTERMINATED CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATLY AFTER INSTALLATION.
5. BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.
6. ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS.
7. PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT THAT CAN BE EASILY REMOVED. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.
8. CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX, JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.
9. PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.
10. CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS (PDF FORMAT) FOR ALL THE WORK BEING DONE.
11. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION.
12. PITCH ALL CONDUITS TOWARD PULL BOXES. INSTALL A 2" DRAIN DUCT TO STORM SEWER OR DRAIN SUMP AS REQUIRED FOR DRAINAGE. THE 2" DRAIN DUCT OR SUMP IS INCIDENTAL TO THE PULL BOX BID ITEM AND IS NOT SHOWN.
13. THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE, IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

    HAND DIGGING MAY BE REQUIRED FOR LOCATIONS ADJACENT TO EXISTING GAS AND POWER LINES. HAND EXCAVATION SHOULD BE ANTICIPATED &
14. WILL BE CONSIDERED INCIDENTAL TO THE CONCRETE BASES BID ITEM. COORDINATE ALL WORK NEAR GAS LINE WITH WE ENERGIES.

    UNDERGROUND WIRE & CONDUIT SHOWN ON REMOVAL PLANS FOR REMOVAL SHALL BE ABANDONED IN PLACE UNLESS DIRECTED BY THE ENGINEER. CONTRACTOR MAY CHOOSE TO REMOVE CONDUCTOR AT THEIR OWN EXPENSE.
15. EXISTING CONDUIT AND CID NO LONGER BEING USED IS ABANDONED IN PLACE. THE CONTRACTOR MAY REMOVE ABANDONED WIRING A THE CONTRACTOR'S EXPENSE. ABANDONED PULL BOX REMOVAL IS INCIDENTAL TO THE ROAD CONSTRUCTION.
16. ALL UNDERGROUND WIRING AND CONDUIT FOR POLES BEING REMOVED IS ABANDONED IN PLACE UNLESS NOTED OTHERWISE. CONTRACTOR MAY SALVAGE ABANDONED WIRING AT HIS OWN EXPENSE.
17. PROVIDE REMOVABLE SEALANT SUCH AS DUCT SEAL IN THE CONDUITS AT THE CABINET, PULL BOXES, AND JUNCTION BOXES TO AVOID CONDENSATION CAUSED BY AIRFLOW THROUGH THE CONDUITS DUE TO TEMPERATURE DIFFERENCE. THIS WORK SHALL BE INCIDENTAL TO THE
18. ASSOCIATED CONDUIT PAY ITEM.
19. PROVIDE MINIMUM CABLE SLACK AS MENTIONED BELOW:

PULL BOXES:	10-FT
EMBEDDED JUCTION BOXES:	3-FT
DISTRIBUTION CENTER/LOAD CENTER:	10-FT
POLES:	5-FT IN AND 5-FT OUT

LEGEND

- CONTROL CABINET
- CONDUIT – 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- PULLBOX 24" x 42"

209+79.4, 36.1' LT
LED-A-5(T)-15-BGU1

6 #8 A,B,N
2 #8 GND

209+71.6, 36.5' LT
LPB102

107+88.1, 38.8' LT
LED-A-5(T)-15-AGU1

107+46.4, 45.8' LT
HL-45-GU

3 #8 A,B,N
1 #8 GND

2 - 3" C
3 #8 A,B,N
2 #8 GND

107+46.4, 35.8' LT
LPB101

3" C
3 #8 A,B,N
1 #8 GND

209+65.0, 37.9' RT
LPB103

209+17.3, 38.7' RT
LED-A-5(T)-15-AGU3

110+27.0, 36.6' LT
LED-A-5(T)-15-BGU3

GRANVILLE RD (CTH Y)

210SB

210NB

209NB

STH 60

106WB

106EB

107WB

107EB

108WB

108EB

110WB

110EB

111WB

111EB

3" C
3 #8 C,D,N
1 #8 GND

107+24.3, 36.6' RT
LED-A-5(T)-6-CGU2

6 #8 C,D,N
2 #8 GND

107+64.6, 41.2' RT
LPB104

3" C
3 #8 C,D,N
1 #8 GND

109+62.9, 38.7' RT
LED-A-5(T)-15-DGU4

207+41.4, 38.2' LT
LED-A-5(T)-15-DGU2

207+24.9, 37.5' RT
LPB106

6 #8 C,D,N
2 #8 GND

207+20.7, 36.7' LT
LPB105

206+78.5, 36.0' RT
LED-A-5(T)-15-CGU4

GRANVILLE RD (CTH Y)

207SB

207NB

STATION — OFFSET

100+00.00, (100.00'RT)
LED-B-5(T)-15-2WC1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

SHEET 1 OF 6

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	LIGHTING PLAN	SHEET 51	E

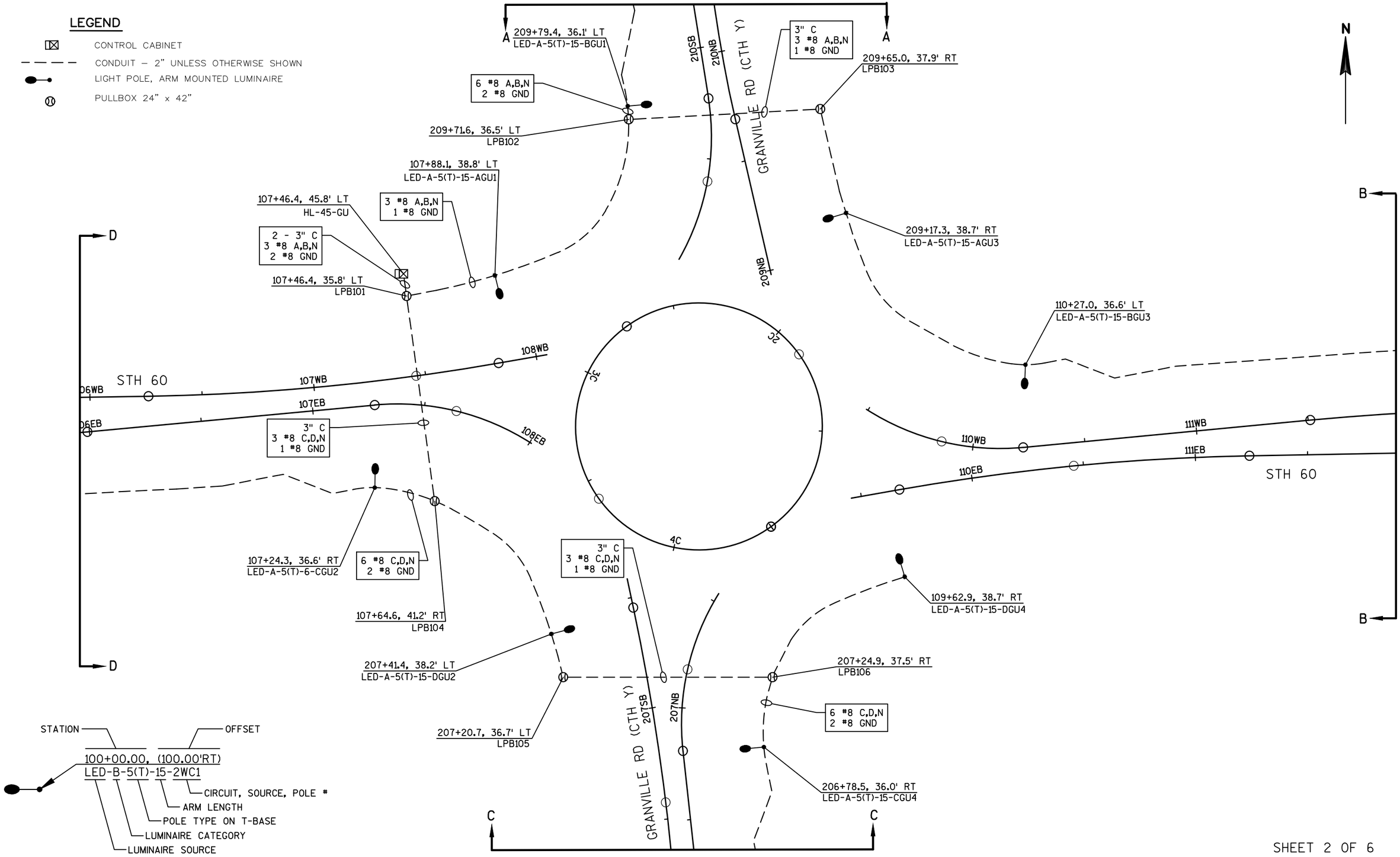
FILE NAME : N:\PDS\C3D\CAD\23101400\LTG\023501_LP.DWG
LAYOUT NAME - 023501_LP

PLOT DATE : 8/14/2019 11:28 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- CONDUIT – 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- PULLBOX 24" x 42"



STATION — OFFSET

100+00.00, (100.00'RT)

LED-B-5(T)-15-2WC1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

SHEET 2 OF 6

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	LIGHTING PLAN - SCHEMATIIC	SHEET 52	E

2

D

N

STH 60

101WB
101EB
102WB
102EB
103WB
103EB
104WB
104EB
105WB
105EB

STATION — OFFSET

100+00.00, (100.00'RT)
LED-B-5(T)-15-2WC1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

104+17.8, 27.0' RT
LED-A-5(T)-6-CGU1

2 #8 B,N
1 #8 GND

105+70.3, 27.0' RT
LED-A-5(T)-6-DGU1

3 #8 A,B,N
1 #8 GND

D

B

3 #8 A,B,N
1 #8 GND

111+92.2, 28.1' LT
LED-A-5(T)-6-AGU4

2 #8 B,N
1 #8 GND

113+50.0, 28.0' LT
LED-A-5(T)-6-BGU4

112WB
112EB
113WB
113EB
114WB
114EB
115WB
115EB
116WB
116EB
117WB

STH 60

B

N

SHEET 3 OF 6

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	LIGHTING PLAN	SHEET 53	E

LEGEND

- CONTROL CABINET
- CONDUIT – 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- PULLBOX 24" x 42"

STH 60

101WB 101EB 102WB 102EB 103WB 103EB 104WB 104EB 105WB 105EB

D

N

104+17.8, 27.0' RT
LED-A-5(T)-6-CGU1

2 #8 B,N
1 #8 GND

105+70.3, 27.0' RT
LED-A-5(T)-6-DGU1

3 #8 A,B,N
1 #8 GND

D

STATION — OFFSET

100+00.00, (100.00'RT)
LED-B-5(T)-15-2WC1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

B

3 #8 A,B,N
1 #8 GND

111+92.2, 28.1' LT
LED-A-5(T)-6-AGU4

2 #8 B,N
1 #8 GND

113+50.0, 28.0' LT
LED-A-5(T)-6-BGU4

112WB 112EB 113WB 113EB 114WB 114EB 115WB 115EB 116WB 116EB 117WB

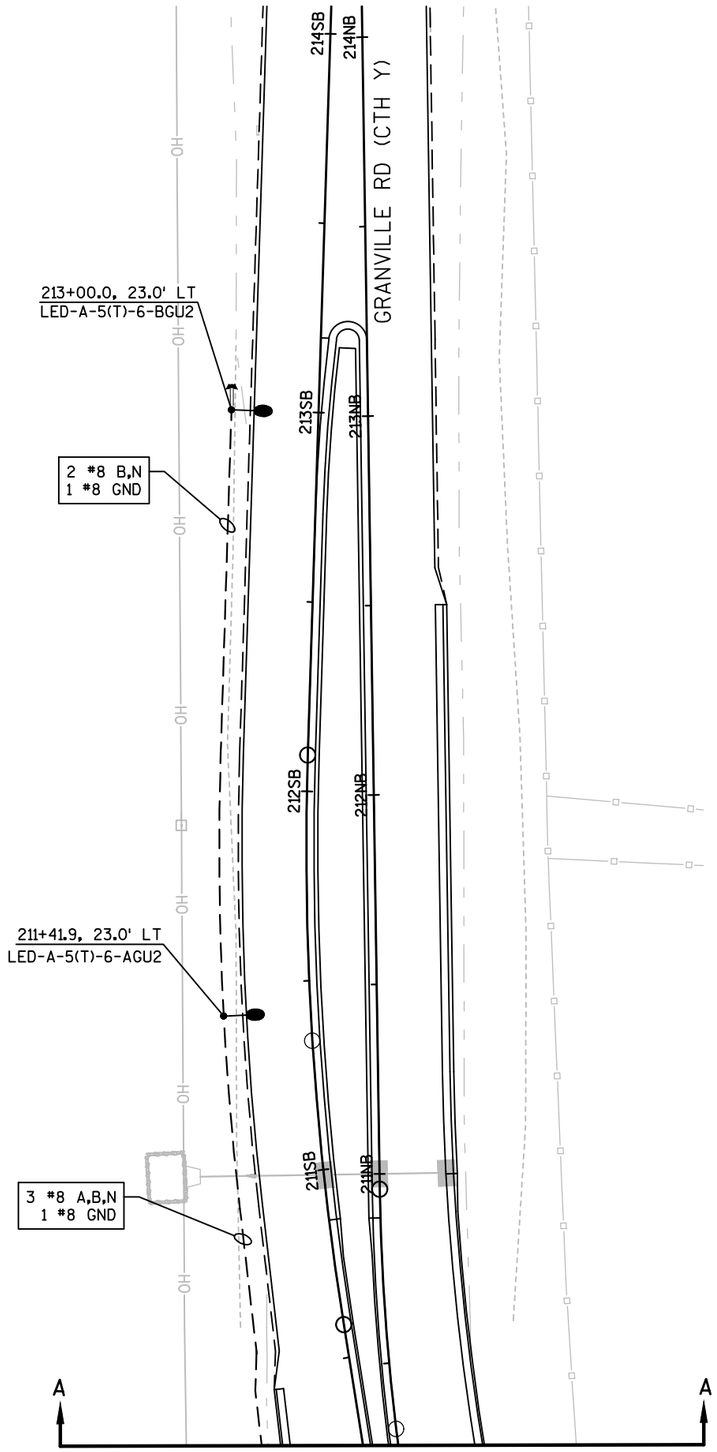
STH 60

N

B

SHEET 4 OF 6

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	LIGHTING PLAN - SCHEMATIC	SHEET 54	E



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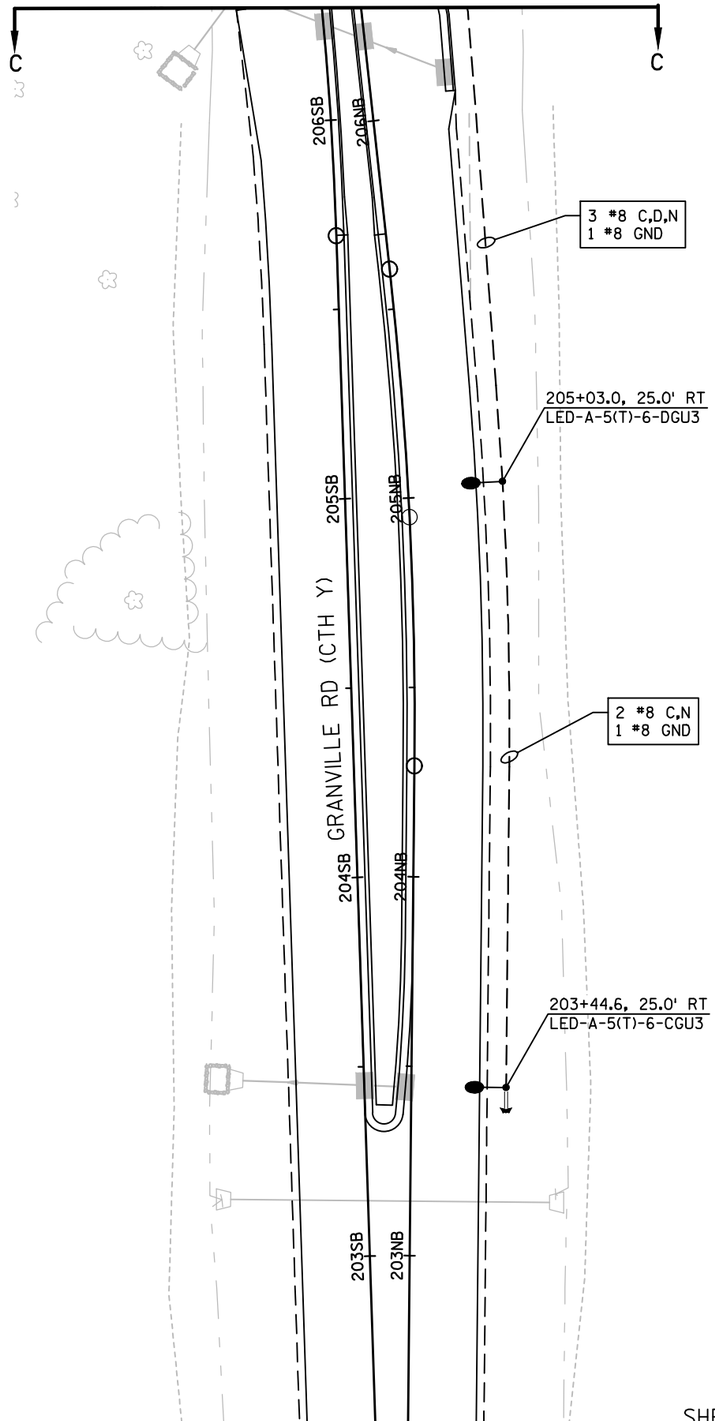


N

LEGEND

- CONTROL CABINET
- CONDUIT – 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- PULLBOX 24" x 42"

STATION — OFFSET

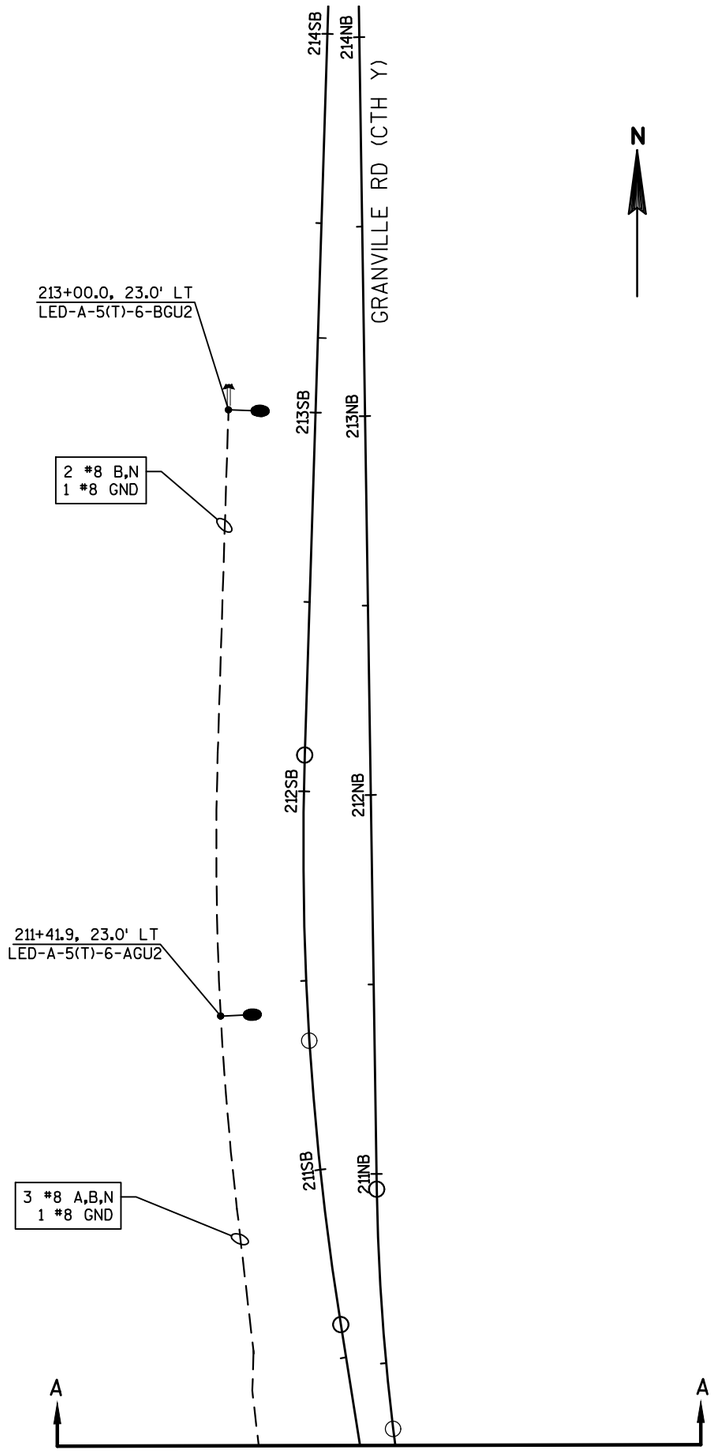
100+00.00, (100.00'RT)

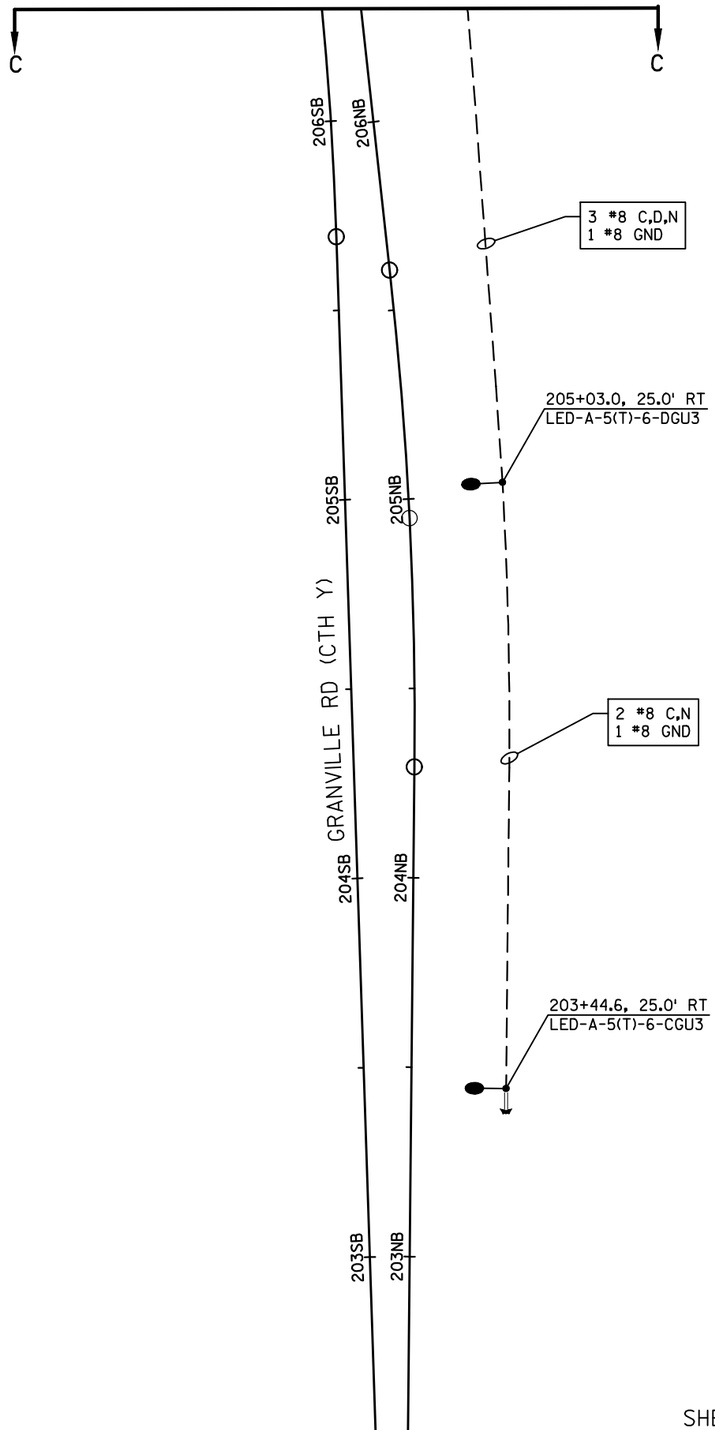
LED-B-5(T)-15-2WC1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

SHEET 5 OF 6

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	LIGHTING PLAN	SHEET 55	E





LEGEND

- CONTROL CABINET
- CONDUIT – 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- PULLBOX 24" x 42"

STATION — OFFSET

100+00.00, (100.00'RT)
LED-B-5(T)-15-2WC1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

SHEET 6 OF 6

2

2

Signing notes

Type II aluminum signs removed under the contract shall be delivered to the County sign shop. Contact the following individual at the sign shop for distribution county location.

Signing Coordinator	County(s)	Phone #
• Dennis Newton	Milwaukee	414-750-0257
• Andre Chapman	Racine	414-531-2635
• Jenny Buckett	Kenosha, Washington, Ozaukee	414-750-2427
• Chuck Saldivar	Walworth, Waukesha	414-750-1682

Signs shall be carefully removed from sign supports. The signs shall be palletized for handling with a forklift (see standard spec 638.3.4). The Regional sign shop (General phone # 414-266-1165) shall be notified three working days prior to delivery of the signs.

When an existing stop sign 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.

Wood posts sizes, for type II signs are estimated lengths and the actual length will be determined in the field.

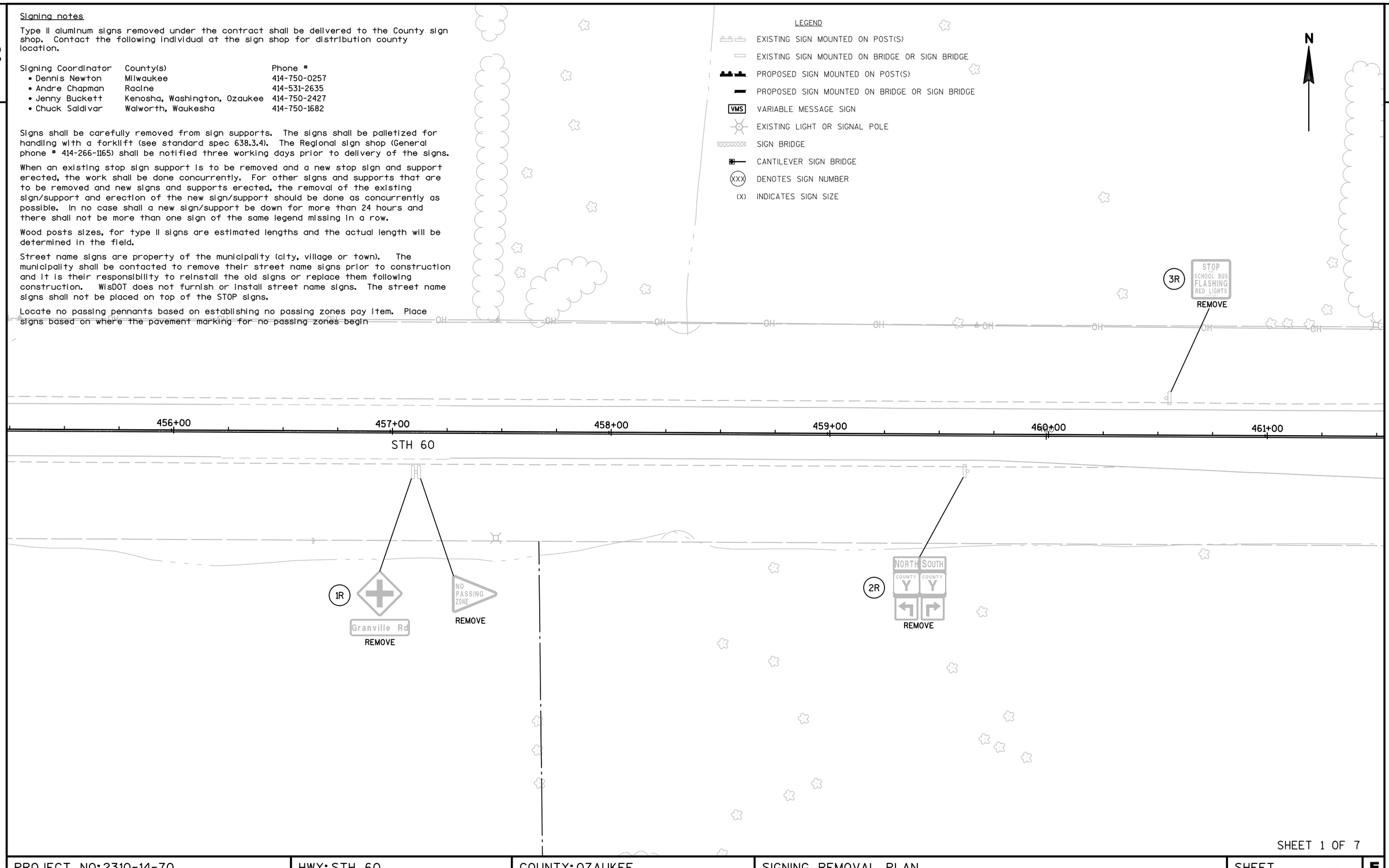
Street name signs are property of the municipality (city, village or town). The municipality shall be contacted to remove their street name signs prior to construction and it is their responsibility to reinstall the old signs or replace them following construction. WisDOT does not furnish or install street name signs. The street name signs shall not be placed on top of the STOP signs.

Locate no passing pennants based on establishing no passing zones pay item. Place signs based on where the pavement marking for no passing zones begin

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

N



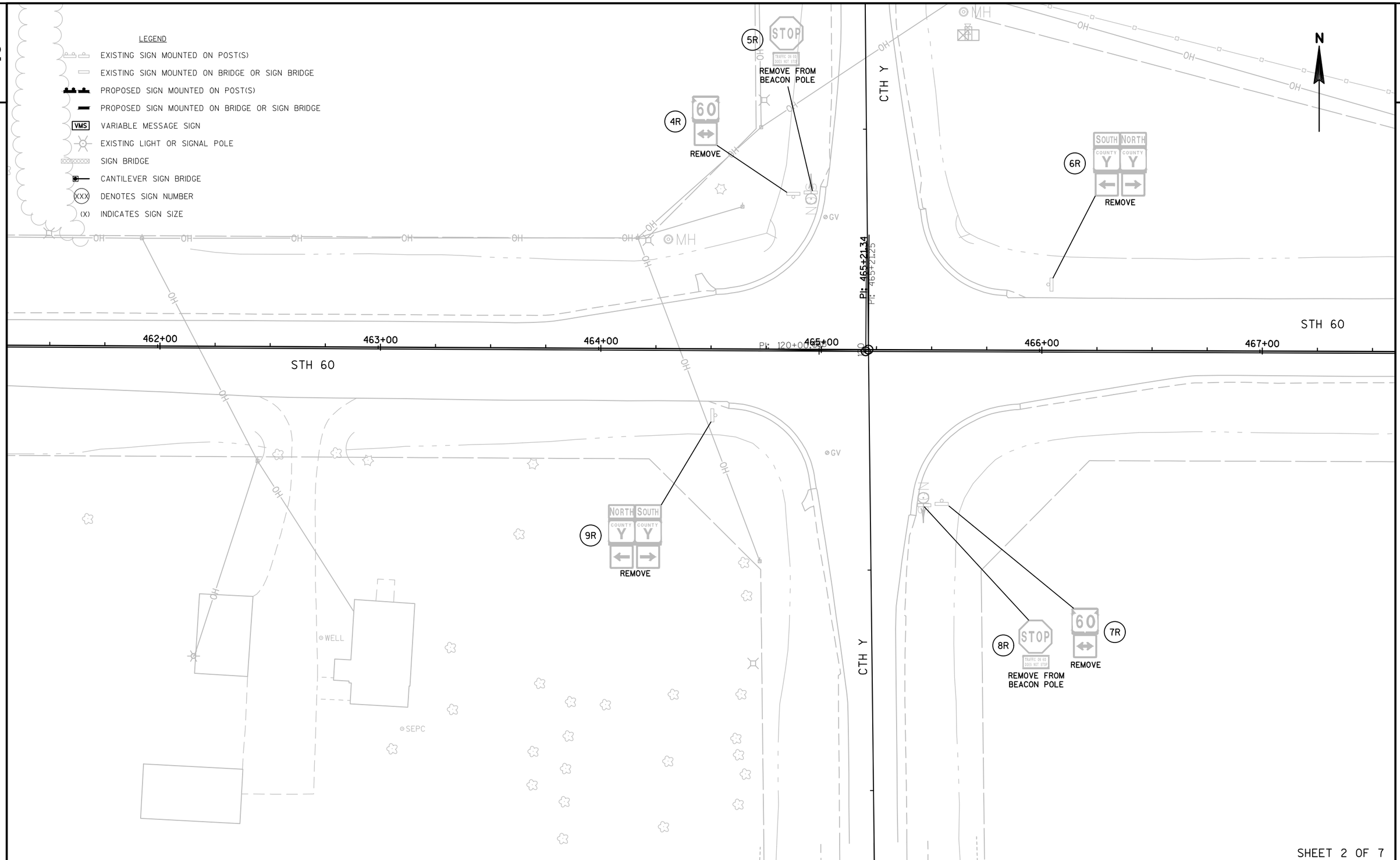
SHEET 1 OF 7

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 57	E

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE



SHEET 2 OF 7

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 58	E

FILE NAME : N:\PDS\C3D\CAD\23101400\SIGN\023101_PS.DWG
LAYOUT NAME - 023102_PS

PLOT DATE : 12/5/2017 12:58 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

SOUTH COUNTY Y NORTH COUNTY Y

10R

REMOVE

468+00 469+00 470+00 471+00 472+00 473+00

STH 60

OH

SLAB

SLAB

SHEET 3 OF 7

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 59 E

FILE NAME : N:\PDS\C3D\CAD\23101400\SIGN\023101_PS.DWG
LAYOUT NAME - 023103_PS

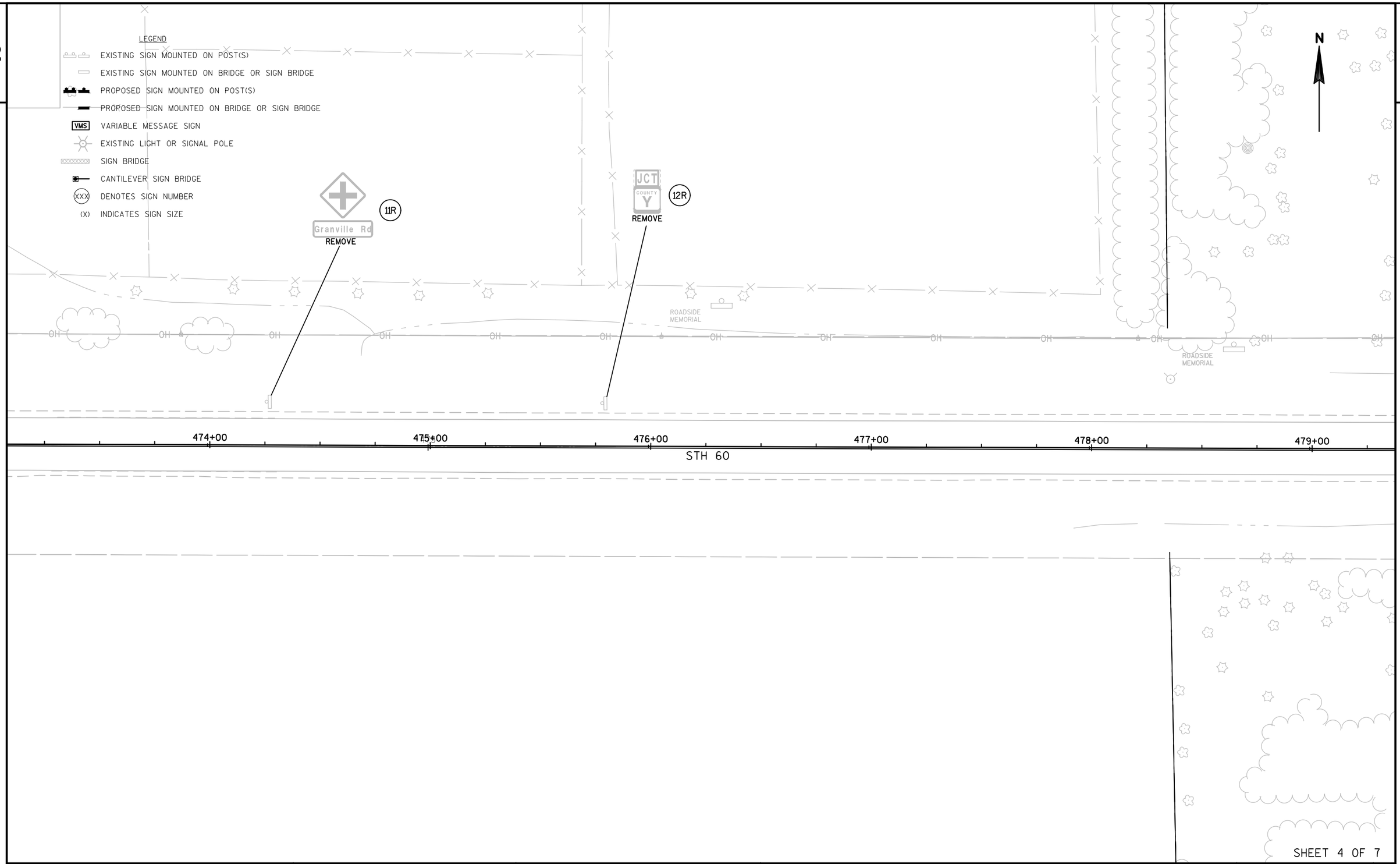
PLOT DATE : 12/5/2017 12:58 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE



2

SHEET 4 OF 7

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 60	E

FILE NAME : N:\PDS\C3D\CAD\23101400\SIGN\023101_PS.DWG
LAYOUT NAME - 023104_PS

PLOT DATE : 12/5/2017 12:58 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

N

STOP AHEAD 13R

REMOVE

15R COUNTY Y

REMOVE

140'

115

CTH Y

14R

REMOVE

2

SHEET 5 OF 7

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 61	E

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

N

STOP AHEAD 17R
REMOVE

OH OH OH OH OH OH OH OH OH OH OH OH OH OH

125

CTH Y

SIGN

16R COUNTY Y
REMOVE

18R
REMOVE

SEPT
SEPT

SHEET 6 OF 7

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 62 E

FILE NAME : N:\PDS\C3D\CAD\23101400\SIGN\023101_PS.DWG
LAYOUT NAME - 023106_PS

PLOT DATE : 12/5/2017 12:58 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

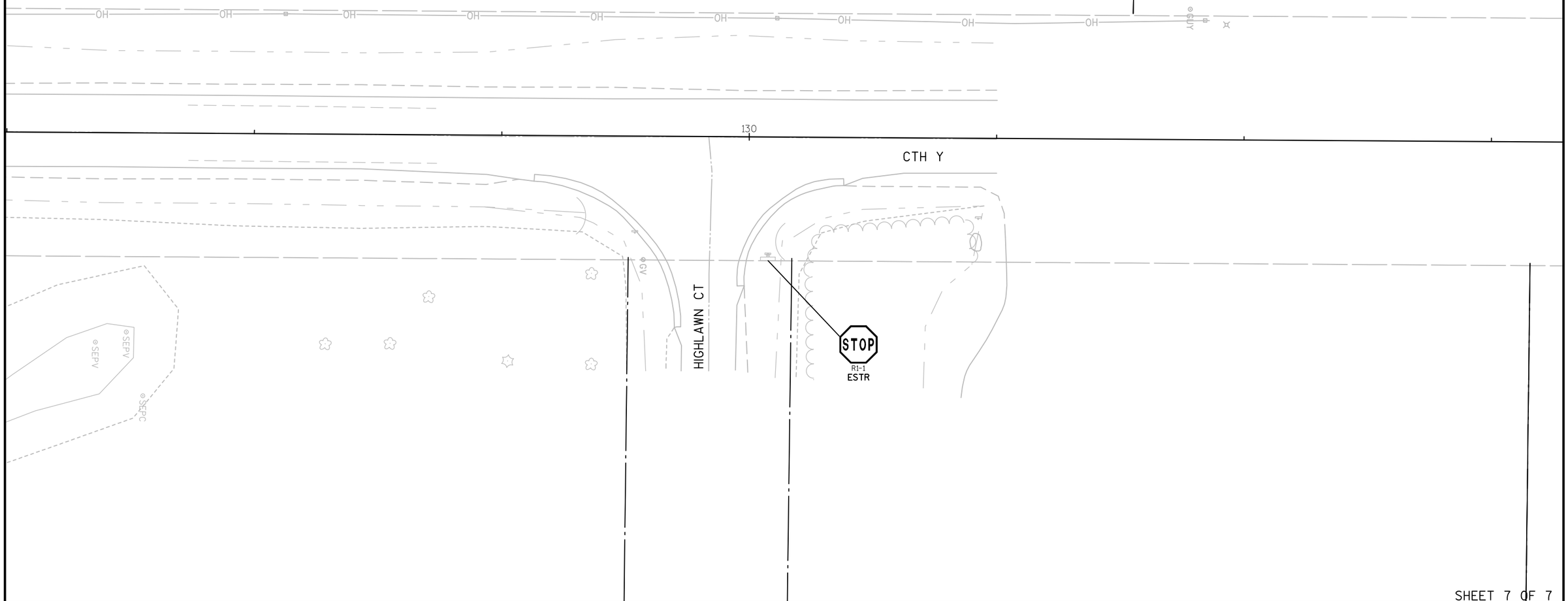
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

N



2

SHEET 7 OF 7

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 63	E

FILE NAME : N:\PDS\C3D\CAD\23101400\SIGN\023101_PS.DWG
LAYOUT NAME - 023107_PS

PLOT DATE : 12/5/2017 12:58 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

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• Andre Chapman	Racine	414-531-2635
• Jenny Buckett	Kenosha, Washington, Ozaukee	414-750-2427
• Chuck Saldivar	Walworth, Waukesha	414-750-1682

Signs shall be carefully removed from sign supports. The signs shall be palletized for handling with a forklift (see standard spec 638.3.4). The Regional sign shop (General phone * 414-266-1165) shall be notified three working days prior to delivery of the signs.

When an existing stop sign 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.

Wood posts sizes, for type II signs are estimated lengths and the actual length will be determined in the field.

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Locate no passing pennants based on establishing no passing zones pay item. Place signs based on where the pavement marking for no passing zones begin

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

N

66 W6-3(2S)

67 DO NOT ENTER R5-1(2S)

SPEED LIMIT 55 7 R2-1(2S)

300'

99WB 100WB 101WB 101EB 102WB 102EB 103WB 103EB 104WB 104EB 105W 105E

STH 60

4 W3-2(2S)

1 W2-6(2S)

2 15 M.P.H. W13-1(2S)

16 X 16 TEMPORARY ORANGE FLAGS

3 60 EAST NORTH Y SOUTH Y Granville Rd Granville Rd

D1-62 TYPE I ON STEEL POSTS

5 R4-7(3)

6 W5-54 (2S)

NO PASSING ZONE 68 W14-3(2S)

SHEET 1 OF 8

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 64	E

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

8 WEST 60 — J4-1 (2S)

9 WEST 60 — D1-2

10 R1-2 (2S) — 16 X 16 TEMPORARY ORANGE FLAGS — SEE NOTE

11 TO TRAFFIC FROM LEFT — R1-54 (2S)

12 R1-2 (2S) — 16 X 16 TEMPORARY ORANGE FLAGS — SEE NOTE

13 ONE WAY — R6-2-R(2S)

14 Y NORTH Granville Rd — D1-2

15 R1-2 (2S) — 16 X 16 TEMPORARY ORANGE FLAGS — SEE NOTE

16 TO TRAFFIC FROM LEFT — R1-54 (2S)

17 R1-2 (2S) — 16 X 16 TEMPORARY ORANGE FLAGS — SEE NOTE

18 ONE WAY — R6-2-R(2S)

19 EAST 60 — D1-2

20 22 24 26 ONE WAY — R6-1-R (2S)

21 23 25 27 — R6-4-B (2S) — 4' MOUNTING HEIGHT

28 R1-2 (2S) — 16 X 16 TEMPORARY ORANGE FLAGS — SEE NOTE

29 TO TRAFFIC FROM LEFT — R1-54 (2S)

30 R1-2 (2S) — 16 X 16 TEMPORARY ORANGE FLAGS — SEE NOTE

31 ONE WAY — R6-2-R(2S)

32 Y SOUTH Granville Rd — D1-2

33 R1-2 (2S) — 16 X 16 TEMPORARY ORANGE FLAGS — SEE NOTE

34 TO TRAFFIC FROM LEFT — R1-54 (2S)

35 R1-2 (2S) — 16 X 16 TEMPORARY ORANGE FLAGS — SEE NOTE

36 ONE WAY — R6-2-R(2S)

37 W12-1R (2S) — 2' MOUNTING HEIGHT

64 Newburg — D1-1

69 R4-7(2S)

STH 60

105WB 105EB 106WB 106EB 107WB 107EB 108WB 108EB 110WB 110EB 111WB 111EB

CTH Y

207NB 207SB 206NB 206SB

WELL SEPC OH GV MH SE SW

NOTE: 7' MOUNTING HEIGHT TO BOTTOM OF YIELD SIGN.

SHEET 2 OF 8

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 65	E

FILE NAME : N:\PDS\C3D\CAD\23101400\SIGN\023201_PS.DWG
LAYOUT NAME - 023202_PS

PLOT DATE : 4/11/2018 12:52 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

Newburg 65
D1-1

70 NO PASSING ZONE
W14-3(2S)

40
R4-7 (3)

41
W5-54 (2S)

111WB 112WB 113WB 114WB 115WB 116WB 117WB
111EB 112EB 113EB 114EB 115EB 116EB

STH 60

38 EAST 60
J4-1 (2S)

39 SPEED LIMIT 55
R2-1 (2S)

71 DO NOT ENTER
R5-1 (2S)

72
W6-3(2S)

SLAB

SHEET 3 OF 8

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 66	E

FILE NAME : N:\PDS\C3D\CAD\23101400\SIGN\023201_PS.DWG
LAYOUT NAME - 023203_PS

PLOT DATE : 4/11/2018 12:52 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

42 — W3-2(2S)

43 — D1-62
TYPE I
ON STEEL POSTS

60 WEST
SOUTH Y Granville Rd
NORTH Y Granville Rd

44 — W2-6(2S)

45 — 15 M.P.H. — W13-1 (2S)

16 X 16
TEMPORARY
ORANGE FLAGS

ROADSIDE MEMORIAL

ROADSIDE MEMORIAL

OH

117WB

118WB

200'

STH 60

N

SHEET 4 OF 8

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 67	E

FILE NAME : N:\PDS\C3D\CAD\23101400\SIGN\023201_PS.DWG
LAYOUT NAME - 023204_PS

PLOT DATE : 4/11/2018 12:52 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

N

46 — JCT 60 — J1-1 (2S)

47 — W2-6(2S)

48 — 15 M.P.H. — W13-1 (2S)

16 X 16 TEMPORARY ORANGE FLAGS

60 — Y NORTH / WEST 60 / EAST 60 — D1-62 TYPE II ON WOOD POSTS

50 — W3-2(2S)

SHEET 5 OF 8

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 68	E

FILE NAME : N:\PDS\C3D\CAD\23101400\SIGN\023201_PS.DWG
LAYOUT NAME - 023205_PS

PLOT DATE : 4/11/2018 12:52 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

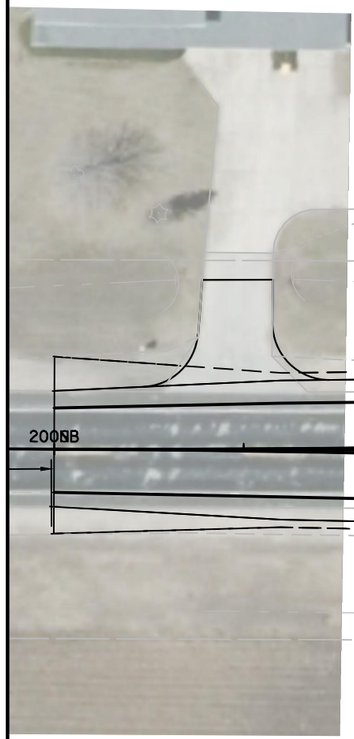
WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE



N

73 W6-3(2S)

74 DO NOT ENTER R5-1(2S)

SPEED LIMIT 55 53 R2-1(2S)

SOUTH COUNTY Y 54 J4-1(2S)

CTH Y

200NB 201SB 201NB 202SB 202NB 203SB 203NB 204SB 204NB 205SB 205NB 206SB 206NB

51 R4-7 (3)

52 W5-54 (2S)

NO PASSING ZONE 75 W14-3(2S)

SHEET 6 OF 8

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 69	E

FILE NAME : N:\PDS\C3D\CAD\23101400\SIGN\023201_PS.DWG
LAYOUT NAME - 023206_PS

PLOT DATE : 4/11/2018 12:53 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

N

76 NO PASSING ZONE W14-3(2S)

57 R4-7 (3)

58 W5-54 (2S)

OH

210SB 210NB 211SB 211NB 212SB 212NB 213SB 213NB 214SB 214NB 215SB 215NB

CTH Y

55 NORTH COUNTY Y J4-1(2S)

56 SPEED LIMIT 55 R2-1(2S)

77 DO NOT ENTER R5-1(2S)

78 W6-3(2S)

SIGN

SHEET 7 OF 8

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 70	E

FILE NAME : N:\PDS\C3D\CAD\23101400\SIGN\023201_PS.DWG
LAYOUT NAME - 023207_PS

PLOT DATE : 4/11/2018 12:53 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

N

59 W3-2(2S)

49 Y SOUTH EAST 60 WEST 60
D1-62
TYPE II
ON WOOD POSTS

61 W2-6(2S)
62 15 M.P.H. W13-1 (2S)
16 X 16
TEMPORARY
ORANGE FLAGS

JCT 60 63 J1-1 (2S)

OH OH OH OH OH OH OH OH OH GUY

250'

150'

CTH Y

HIGHLAWN CT

GV

SEPV

SEPV

SEPC

SHEET 8 OF 8

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 71 E

FILE NAME : N:\PDS\C3D\CAD\23101400\SIGN\023201_PS.DWG
LAYOUT NAME - 023208_PS

PLOT DATE : 4/11/2018 12:53 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

HIGHLAWN COURT

N

END CONSTRUCTION
STA. 216+58.62

NOTES

-STH 60 WILL BE CLOSED TO THROUGH TRAFFIC AND DETOURED UNDER PROJECT I.D. 2310-17-70.

-CTH Y WILL BE CLOSED TO THROUGH TRAFFIC.

-CONTRACTOR WILL BE REQUIRED TO MAINTAIN ACCESS FOR LOCAL AND EMERGENCY VEHICLES ON STH 60 AND CTH Y.

216NB
214NB
212NB
210NB
206NB
204NB
202NB
200NB

100EB
102EB
104EB
106EB
108EB
110EB
112EB
114EB
116EB
118EB

STH 60

BEGIN PROJECT
STA. 100+00.00

END PROJECT
STA. 117+50.00

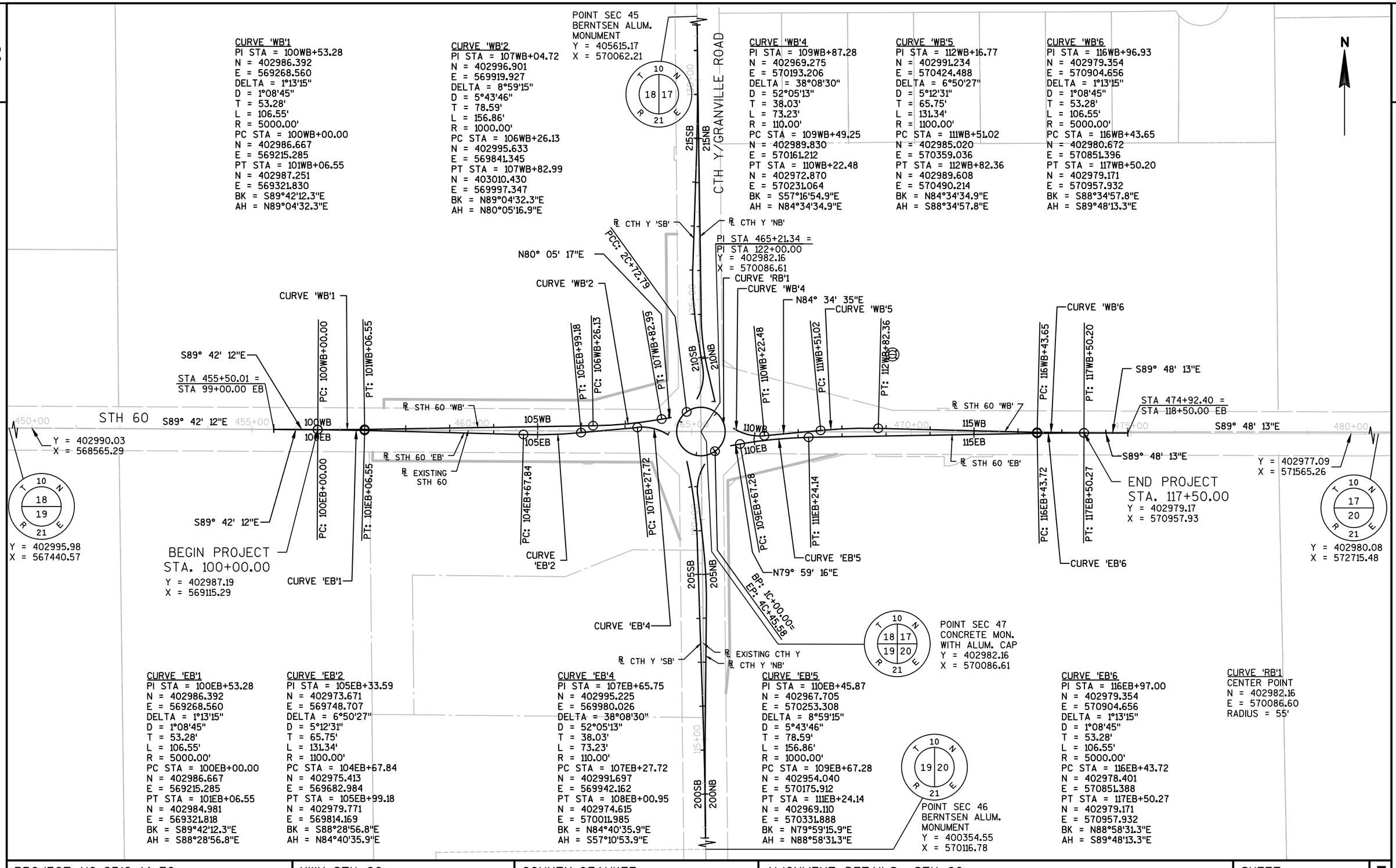
CTH Y / GRANVILLE ROAD

BEGIN CONSTRUCTION
STA. 200+00.00

2

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	TRAFFIC CONTROL OVERVIEW	SHEET 72	E

2



PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	ALIGNMENT DETAILS- STH 60	SHEET 73	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027201_AD
PLOT DATE : 4/30/2018 1:02 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

N

Y = 402995.98
X = 567440.57

CURVE 'SB'1
PI STA = 200'SB'+53.28
N = 402211.083
E = 570095.459
DELTA = 1°13'16"
D = 1°08'45"
T = 53.28'
L = 106.55'
R = 5000.00'
PC STA = 200'SB'+00.00
N = 402157.808
E = 570096.070
PT STA = 201'SB'+06.55
N = 402264.333
E = 570093.712
BK = N00°39'28.3"W
AH = N01°52'43.9"W

CURVE 'SB'2
PI STA = 206'SB'+57.67
N = 402815.157
E = 570075.643
DELTA = 10°05'00"
D = 5°43'46"
T = 88.22'
L = 175.99'
R = 1000.00'
PC STA = 205'SB'+69.45
N = 402726.984
E = 570078.535
PT STA = 207'SB'+45.44
N = 402901.462
E = 570057.358
BK = N01°52'43.9"W
AH = N11°57'43.6"W

CURVE 'SB'3
PI STA = 209'SB'+41.40
N = 403090.195
E = 570096.891
DELTA = 38°42'29"
D = 52°05'13"
T = 38.64'
L = 74.31'
R = 110.00'
PC STA = 209'SB'+02.76
N = 403056.632
E = 570077.749
PT STA = 209'SB'+77.07
N = 403128.356
E = 570090.839
BK = N29°41'50.2"E
AH = N09°00'38.4"W

CURVE 'SB'4
PI STA = 211'SB'+34.37
N = 403283.711
E = 570066.204
DELTA = 10°48'03"
D = 7°09'43"
T = 75.63'
L = 150.81'
R = 800.00'
PC STA = 210'SB'+58.74
N = 403209.015
E = 570078.049
PT STA = 212'SB'+09.55
N = 403359.302
E = 570068.567
BK = N09°00'38.4"W
AH = N01°47'24.8"E

CURVE 'SB'5
PI STA = 215'SB'+62.77
N = 403712.353
E = 570079.601
DELTA = 2°10'39"
D = 1°08'45"
T = 95.02'
L = 190.02'
R = 5000.00'
PC STA = 214'SB'+67.75
N = 403617.377
E = 570076.633
PT STA = 216'SB'+57.77
N = 403807.373
E = 570078.959
BK = N01°47'24.8"E
AH = N00°23'14.1"W

100'EB'
100'WB'
105'EB'
105'WB'
110'EB'
110'WB'
115'EB'
115'WB'

460+00

℄ STH 60 'EB'
℄ STH 60 'WB'
STH 60

N11° 57' 44"W
CURVE 'SB'2
CURVE 'SB'3
N9° 00' 38"W
CURVE 'SB'4
NO° 31' 15"W
CURVE 'SB'5

POINT SEC 46
BERNTSEN ALUM.
MONUMENT
Y = 400354.55
X = 570116.78

NO° 39' 28"W
STA 199+00.00 'NB'=
STA 112+75.60
BP: 199'NB+00.00
PC: 200'SB'+00.00
CURVE 'SB'1
PT: 201'SB'+06.55
℄ CTH Y 'SB'
PC: 205'SB'+69.45
PT: 207'SB'+45.44
PT: 209'SB'+77.07
PC: 210'SB'+58.74
PT: 212'SB'+09.55
PC: 214'SB'+67.75
PT: 216'SB'+58.62
EP: 217'NB'+58.62
STA 217+58.62 'NB'=
STA 131+25.25

110+00 NO° 39' 28"W
200'SB'
200'NB'
205'SB'
205'NB'
210'SB'
210'NB'
215'SB'
215'NB'
130+00
135+00 NO° 31' 47"W
CTH Y/GRANVILLE ROAD
Y = 404282.10
X = 570074.59

Y = 401782.24
X = 570100.38
NO° 39' 28"W

PC: 200'NB'+00.00
PT: 201'NB'+06.55
℄ CTH Y 'NB'
℄ EXISTING CTH Y
PC: 204'NB'+29.26
PC: 205'NB'+60.59
PT: 205'NB'+80.75
PC: 206'NB'+80.75
PC: 209'NB'+69.08
PT: 210'NB'+95.91
NO° 31' 15"W

POINT SEC 45
BERNTSEN ALUM.
MONUMENT
Y = 405615.17
X = 570062.21

BEGIN CONSTRUCTION
STA. 200'NB'+00.00
Y = 402157.81
X = 570096.07

POINT SEC 47
CONCRETE MON.
WITH ALUM. CAP
Y = 402982.16
X = 570086.61

CURVE 'NB'1
CURVE 'NB'2
N6° 16' 40"W
CURVE 'NB'3
CURVE 'NB'4
N12° 59' 06"W

℄ EXISTING STH 60
℄ STH 60 'EB'
℄ STH 60 'WB'

PI STA 465+21.34 =
PI STA 122+00.00
Y = 402982.16
X = 570086.61

END CONSTRUCTION
STA. 216'NB'+58.62
Y = 403807.37
X = 570078.97

CURVE 'NB'1
PI STA = 200'NB'+53.28
N = 402211.083
E = 570095.459
DELTA = 1°13'16"
D = 1°08'45"
T = 53.28'
L = 106.55'
R = 5000.00'
PC STA = 200'NB'+00.00
N = 402157.808
E = 570096.070
PT STA = 201'NB'+06.55
N = 402264.359
E = 570095.982
BK = N00°39'28.3"W
AH = N00°33'47.3"E

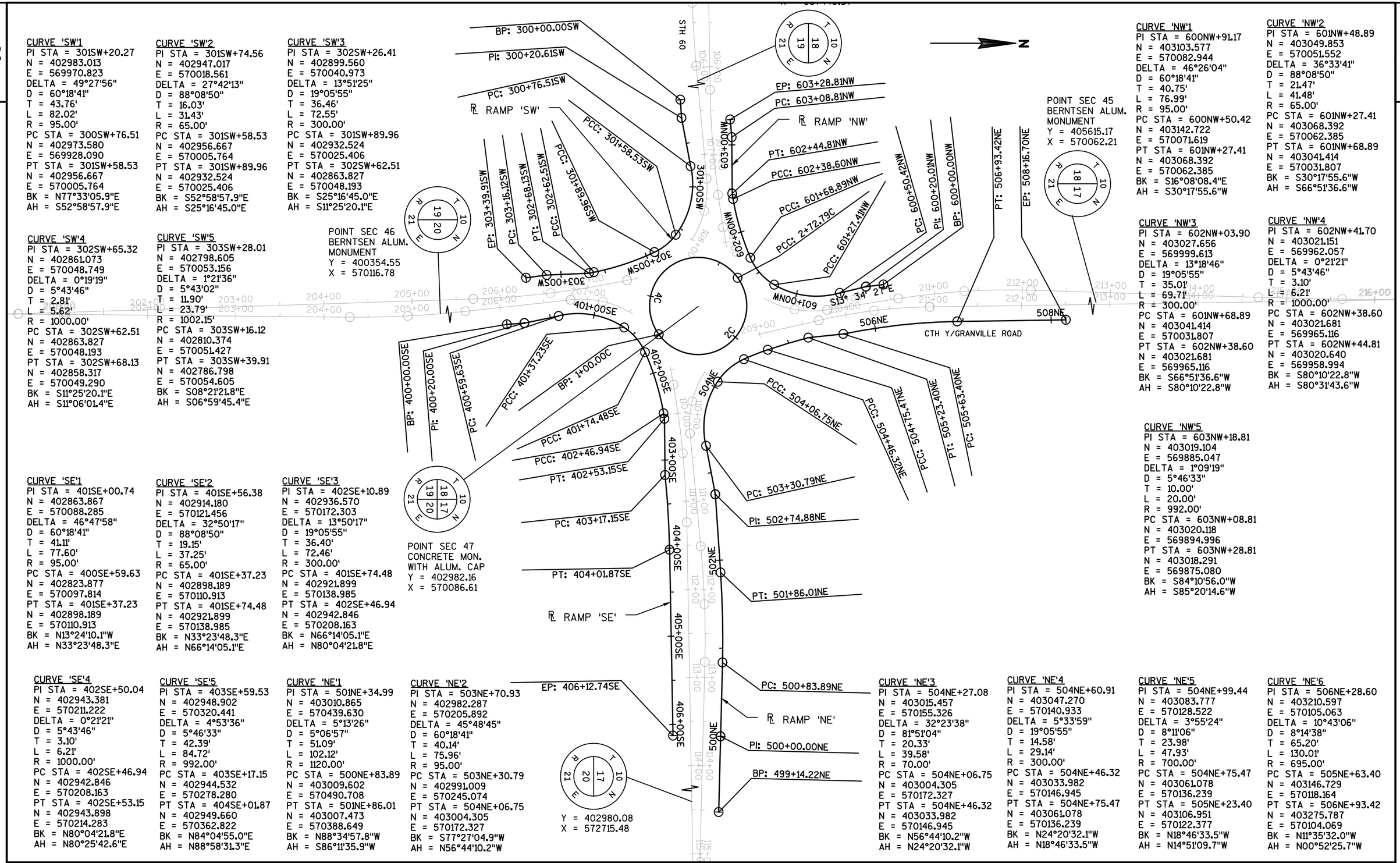
CURVE 'NB'2
PI STA = 204'NB'+95.00
N = 402652.789
E = 570099.800
DELTA = 6°50'27"
D = 5°12'31"
T = 65.75'
L = 131.34'
R = 1100.00'
PC STA = 204'NB'+29.26
N = 402587.046
E = 570099.154
PT STA = 205'NB'+60.59
N = 402718.142
E = 570092.611
BK = N00°33'47.3"E
AH = N06°16'40.1"W

CURVE 'NB'3
PI STA = 207'NB'+18.77
N = 402875.376
E = 570075.314
DELTA = 38°08'30"
D = 52°05'13"
T = 38.03'
L = 73.23'
R = 110.00'
PC STA = 206'NB'+80.75
N = 402837.575
E = 570079.472
PT STA = 207'NB'+53.97
N = 402907.673
E = 570095.389
BK = N06°16'40.1"W
AH = N31°51'50.1"E

CURVE 'NB'4
PI STA = 210'NB'+32.73
N = 403181.083
E = 570088.512
DELTA = 12°06'40"
D = 9°32'57"
T = 63.65'
L = 126.83'
R = 600.00'
PC STA = 209'NB'+69.08
N = 403119.060
E = 570102.814
PT STA = 210'NB'+95.91
N = 403244.727
E = 570087.541
BK = N12°59'06.1"W
AH = N00°52'25.7"W

Y = 402980.08
X = 572715.48

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	ALIGNMENT DETAILS-CTH Y	SHEET 74	E



CURVE 'SW'1
PI STA = 301SW+20.27
N = 402983.013
E = 569970.823
DELTA = 49°27'56"
D = 60°18'41"
T = 43.76'
L = 82.02'
R = 95.00'
PC STA = 300SW+76.51
N = 402973.580
E = 569928.090
PT STA = 301SW+58.53
N = 402956.667
E = 570005.764
BK = N77°33'05.9"E
AH = S52°58'57.9"E

CURVE 'SW'2
PI STA = 301SW+74.56
N = 402947.017
E = 570018.561
DELTA = 27°42'13"
D = 88°08'50"
T = 16.03'
L = 31.43'
R = 65.00'
PC STA = 301SW+58.53
N = 402956.667
E = 570005.764
PT STA = 301SW+89.96
N = 402932.524
E = 570025.406
BK = S52°58'57.9"E
AH = S25°16'45.0"E

CURVE 'SW'3
PI STA = 302SW+26.41
N = 402899.560
E = 570040.973
DELTA = 13°51'25"
D = 19°05'55"
T = 36.46'
L = 72.55'
R = 300.00'
PC STA = 301SW+89.96
N = 402932.524
E = 570025.406
PT STA = 302SW+62.51
N = 402863.827
E = 570048.193
BK = S25°16'45.0"E
AH = S11°25'20.1"E

CURVE 'SW'4
PI STA = 302SW+65.32
N = 402861.073
E = 570048.749
DELTA = 0°19'19"
D = 5°43'46"
T = 2.81'
L = 5.62'
R = 1000.00'
PC STA = 302SW+62.51
N = 402863.827
E = 570048.193
PT STA = 302SW+68.13
N = 402858.317
E = 570049.290
BK = S11°25'20.1"E
AH = S11°06'01.4"E

CURVE 'SW'5
PI STA = 303SW+28.01
N = 402798.605
E = 570053.156
DELTA = 1°21'36"
D = 5°43'02"
T = 11.90'
L = 23.79'
R = 1002.15'
PC STA = 303SW+16.12
N = 402810.374
E = 570051.427
PT STA = 303SW+39.91
N = 402786.798
E = 570054.605
BK = S08°21'21.8"E
AH = S06°59'45.4"E

CURVE 'NW'1
PI STA = 600NW+91.17
N = 403103.577
E = 570082.944
DELTA = 46°26'04"
D = 60°18'41"
T = 40.75'
L = 76.99'
R = 95.00'
PC STA = 600NW+50.42
N = 403142.722
E = 570071.619
PT STA = 601NW+27.41
N = 403068.392
E = 570062.385
BK = S16°08'08.4"E
AH = S30°17'55.6"W

CURVE 'NW'2
PI STA = 601NW+48.89
N = 403049.853
E = 570051.552
DELTA = 36°33'41"
D = 88°08'50"
T = 21.47'
L = 41.48'
R = 65.00'
PC STA = 601NW+27.41
N = 403068.392
E = 570062.385
PT STA = 601NW+68.89
N = 403041.414
E = 570031.807
BK = S30°17'55.6"W
AH = S66°51'36.6"W

CURVE 'NW'3
PI STA = 602NW+03.90
N = 403027.656
E = 569999.613
DELTA = 13°18'46"
D = 19°05'55"
T = 35.01'
L = 69.71'
R = 300.00'
PC STA = 601NW+68.89
N = 403041.414
E = 570031.807
PT STA = 602NW+38.60
N = 403021.681
E = 569965.116
BK = S66°51'36.6"W
AH = S80°10'22.8"W

CURVE 'NW'4
PI STA = 602NW+41.70
N = 403021.151
E = 569962.057
DELTA = 0°21'21"
D = 5°43'46"
T = 3.10'
L = 6.21'
R = 1000.00'
PC STA = 602NW+38.60
N = 403021.681
E = 569965.116
PT STA = 602NW+44.81
N = 403020.640
E = 569958.994
BK = S80°10'22.8"W
AH = S80°31'43.6"W

CURVE 'NW'5
PI STA = 603NW+18.81
N = 403019.104
E = 569885.047
DELTA = 1°09'19"
D = 5°46'33"
T = 10.00'
L = 20.00'
R = 992.00'
PC STA = 603NW+08.81
N = 403020.118
E = 569894.996
PT STA = 603NW+28.81
N = 403018.291
E = 569875.080
BK = S84°10'56.0"W
AH = S85°20'14.6"W

CURVE 'SE'1
PI STA = 401SE+00.74
N = 402863.867
E = 570088.285
DELTA = 46°47'58"
D = 60°18'41"
T = 41.11'
L = 77.60'
R = 95.00'
PC STA = 400SE+59.63
N = 402823.877
E = 570097.814
PT STA = 401SE+37.23
N = 402898.189
E = 570110.913
BK = N13°24'10.1"W
AH = N33°23'48.3"E

CURVE 'SE'2
PI STA = 401SE+56.38
N = 402914.180
E = 570121.456
DELTA = 32°50'17"
D = 88°08'50"
T = 19.15'
L = 37.25'
R = 65.00'
PC STA = 401SE+37.23
N = 402898.189
E = 570110.913
PT STA = 401SE+74.48
N = 402921.899
E = 570138.985
BK = N33°23'48.3"E
AH = N66°14'05.1"E

CURVE 'SE'3
PI STA = 402SE+10.89
N = 402936.570
E = 570172.303
DELTA = 13°50'17"
D = 19°05'55"
T = 36.40'
L = 72.46'
R = 300.00'
PC STA = 401SE+74.48
N = 402921.899
E = 570138.985
PT STA = 402SE+46.94
N = 402942.846
E = 570208.163
BK = N66°14'05.1"E
AH = N80°04'21.8"E

CURVE 'SE'4
PI STA = 402SE+50.04
N = 402943.381
E = 570211.222
DELTA = 0°21'21"
D = 5°43'46"
T = 3.10'
L = 6.21'
R = 1000.00'
PC STA = 402SE+46.94
N = 402942.846
E = 570208.163
PT STA = 402SE+53.15
N = 402943.898
E = 570214.283
BK = N80°04'21.8"E
AH = N80°25'42.6"E

CURVE 'SE'5
PI STA = 403SE+59.53
N = 402948.902
E = 570320.441
DELTA = 4°53'36"
D = 5°46'33"
T = 42.39'
L = 84.72'
R = 992.00'
PC STA = 403SE+17.15
N = 402944.532
E = 570278.280
PT STA = 404SE+01.87
N = 402949.660
E = 570362.822
BK = N84°04'55.0"E
AH = N88°58'31.3"E

CURVE 'NE'1
PI STA = 501NE+34.99
N = 403010.865
E = 570439.630
DELTA = 5°13'26"
D = 5°06'57"
T = 51.09'
L = 102.12'
R = 1120.00'
PC STA = 500NE+83.89
N = 403009.602
E = 570490.708
PT STA = 501NE+86.01
N = 403007.473
E = 570388.649
BK = N88°34'57.8"W
AH = S86°11'35.9"W

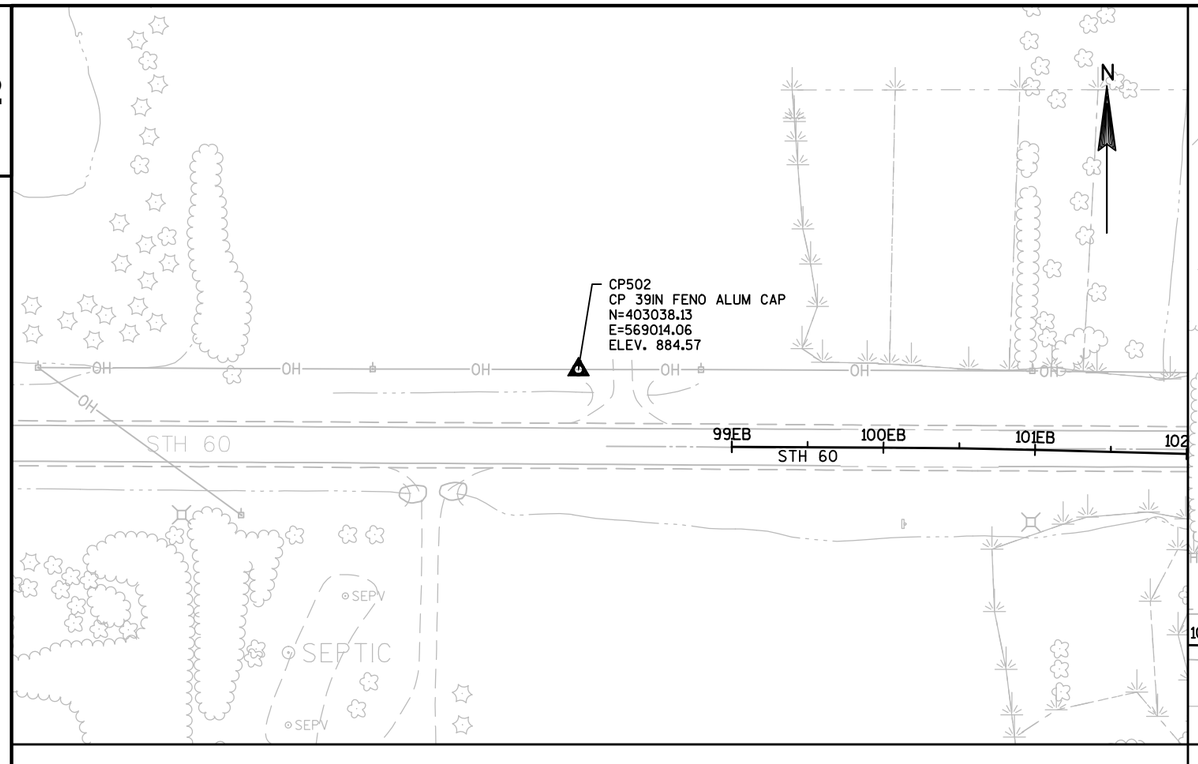
CURVE 'NE'2
PI STA = 503NE+70.93
N = 402982.287
E = 570205.892
DELTA = 45°48'45"
D = 60°18'41"
T = 40.14'
L = 75.96'
R = 95.00'
PC STA = 503NE+30.79
N = 402991.009
E = 570245.074
PT STA = 504NE+06.75
N = 403004.305
E = 570172.327
BK = S77°27'04.9"W
AH = N56°44'10.2"W

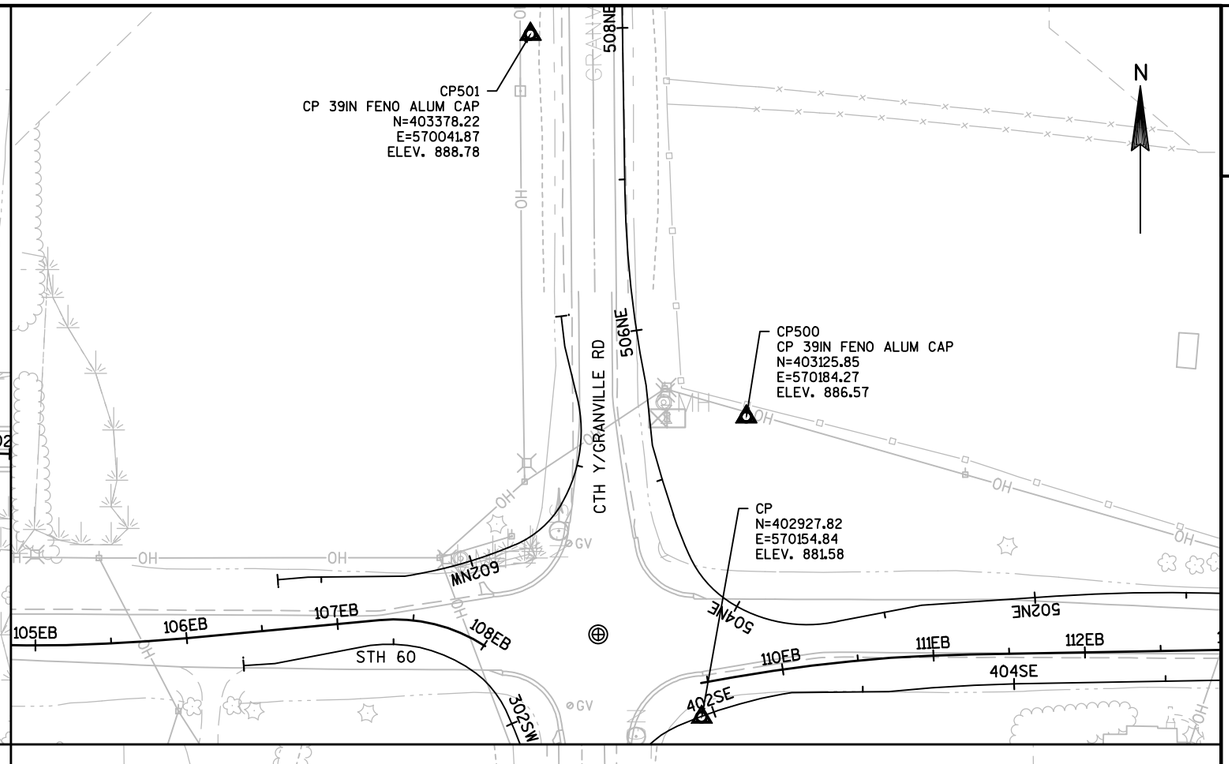
CURVE 'NE'3
PI STA = 504NE+27.08
N = 403015.457
E = 570155.326
DELTA = 32°23'38"
D = 81°51'04"
T = 20.33'
L = 39.58'
R = 70.00'
PC STA = 504NE+06.75
N = 403004.305
E = 570172.327
PT STA = 504NE+46.32
N = 403033.982
E = 570146.945
BK = N56°44'10.2"W
AH = N24°20'32.1"W

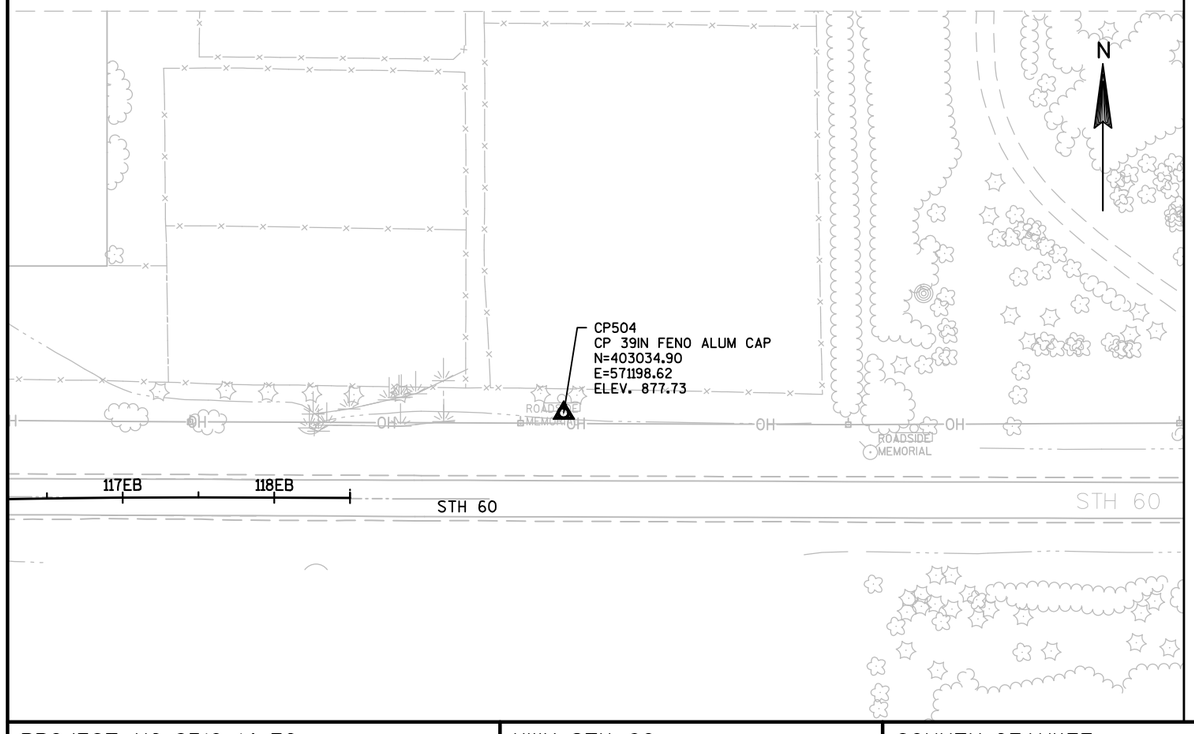
CURVE 'NE'4
PI STA = 504NE+60.91
N = 403047.270
E = 570140.933
DELTA = 5°33'59"
D = 19°05'55"
T = 14.58'
L = 29.14'
R = 300.00'
PC STA = 504NE+46.32
N = 403033.982
E = 570146.945
PT STA = 504NE+75.47
N = 403061.078
E = 570136.239
BK = N24°20'32.1"W
AH = N18°46'33.5"W

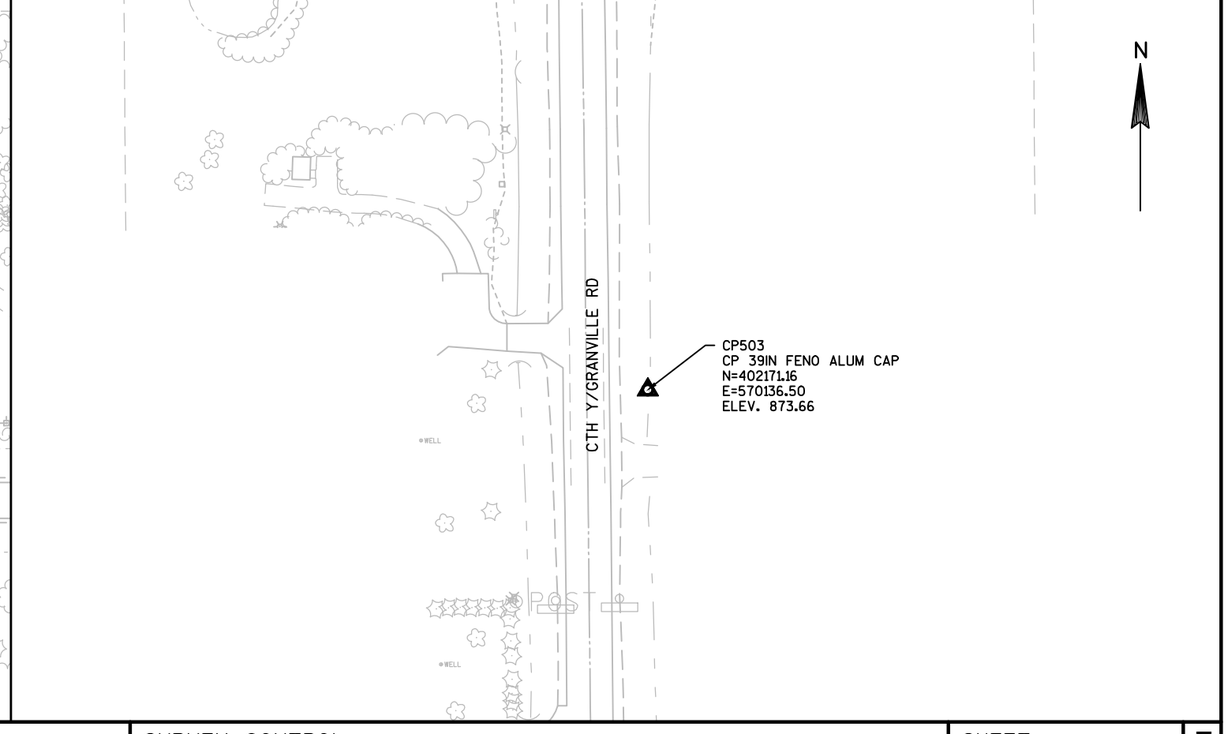
CURVE 'NE'5
PI STA = 504NE+99.44
N = 403083.777
E = 570128.522
DELTA = 3°55'24"
D = 8°11'06"
T = 23.98'
L = 47.93'
R = 700.00'
PC STA = 504NE+75.47
N = 403061.078
E = 570136.239
PT STA = 505NE+23.40
N = 403106.951
E = 570122.377
BK = N18°46'33.5"W
AH = N14°51'09.7"W

CURVE 'NE'6
PI STA = 506NE+28.60
N = 403210.597
E = 570105.063
DELTA = 10°43'06"
D = 8°14'38"
T = 65.20'
L = 130.01'
R = 695.00'
PC STA = 505NE+63.40
N = 403146.729
E = 570118.164
PT STA = 506NE+93.42
N = 403275.787
E = 570104.069
BK = N11°35'32.0"W
AH = N00°52'25.7"W









PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	SURVEY CONTROL	SHEET 76	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\SHEETSPLAN\027205_AD.DWG
LAYOUT NAME - 027205_AD
PLOT DATE : 4/24/2018 11:16 AM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2310-14-70

Line	Item	Item Description	Unit	Total	Qty
0004	201.0120	Clearing	ID	55.000	55.000
0008	201.0220	Grubbing	ID	55.000	55.000
0010	203.0100	Removing Small Pipe Culverts	EACH	8.000	8.000
0014	204.0110	Removing Asphaltic Surface	SY	1,283.000	1,283.000
0020	204.0150	Removing Curb & Gutter	LF	282.000	282.000
0036	205.0100	Excavation Common	CY	14,467.000	14,467.000
0044	213.0100	Finishing Roadway (project) 01. 2310-14-70	EACH	1.000	1.000
0048	305.0110	Base Aggregate Dense 3/4-Inch	TON	628.000	628.000
0050	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	15,333.000	15,333.000
0054	311.0110	Breaker Run	TON	16,640.000	16,640.000
0056	405.0100	Coloring Concrete WisDOT Red	CY	160.000	160.000
0058	415.0120	Concrete Pavement 12-Inch	SY	85.000	85.000
0062	416.0512	Concrete Truck Apron 12-Inch	SY	385.000	385.000
0066	455.0605	Tack Coat	GAL	1,040.000	1,040.000
0072	460.2000	Incentive Density HMA Pavement	DOL	3,130.000	3,130.000
0078	460.5223	HMA Pavement 3 LT 58-28 S	TON	3,260.000	3,260.000
0080	460.5224	HMA Pavement 4 LT 58-28 S	TON	1,630.000	1,630.000
0082	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	12.000	12.000
0084	465.0315	Asphaltic Flumes	SY	40.000	40.000
0086	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	1,810.000	1,810.000
0116	520.1012	Apron Endwalls for Culvert Pipe 12-Inch	EACH	4.000	4.000
0118	520.1015	Apron Endwalls for Culvert Pipe 15-Inch	EACH	3.000	3.000
0120	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	7.000	7.000
0122	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	4.000	4.000
0124	520.3312	Culvert Pipe Class III-A 12-Inch	LF	76.000	76.000
0126	520.3315	Culvert Pipe Class III-A 15-Inch	LF	76.000	76.000
0128	520.3318	Culvert Pipe Class III-A 18-Inch	LF	232.000	232.000
0130	520.3324	Culvert Pipe Class III-A 24-Inch	LF	138.000	138.000
0138	522.0130	Culvert Pipe Reinforced Concrete Class III 30-Inch	LF	94.000	94.000
0140	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	4.000	4.000
0142	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	1.000	1.000
0146	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	2.000	2.000
0158	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	245.000	245.000
0160	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	2,797.000	2,797.000
0162	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	LF	555.000	555.000
0164	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	1,860.000	1,860.000
0166	601.0582	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type T	LF	335.000	335.000

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Line	Item	Item Description	Unit	Total	Qty
0168	601.0600	Concrete Curb Pedestrian	LF	160.000	160.000
0170	602.0405	Concrete Sidewalk 4-Inch	SF	15,450.000	15,450.000
0172	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	256.000	256.000
0174	606.0200	Riprap Medium	CY	40.000	40.000
0178	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	472.000	472.000
0180	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	22.000	22.000
0182	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	31.000	31.000
0186	608.3012	Storm Sewer Pipe Class III-A 12-Inch	LF	240.000	240.000
0188	608.3015	Storm Sewer Pipe Class III-A 15-Inch	LF	201.000	201.000
0190	608.3018	Storm Sewer Pipe Class III-A 18-Inch	LF	20.000	20.000
0194	611.0624	Inlet Covers Type H	EACH	11.000	11.000
0196	611.0627	Inlet Covers Type HM	EACH	7.000	7.000
0198	611.0636	Inlet Covers Type HM-S	EACH	6.000	6.000
0200	611.0639	Inlet Covers Type H-S	EACH	8.000	8.000
0202	611.0652	Inlet Covers Type T	EACH	2.000	2.000
0210	611.3004	Inlets 4-FT Diameter	EACH	6.000	6.000
0212	611.3230	Inlets 2x3-FT	EACH	28.000	28.000
0216	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	5,716.000	5,716.000
0248	619.1000	Mobilization	EACH	0.350	0.350
0250	620.0300	Concrete Median Sloped Nose	SF	500.000	500.000
0252	623.0200	Dust Control Surface Treatment	SY	22,300.000	22,300.000
0254	624.0100	Water	MGAL	220.000	220.000
0256	625.0500	Salvaged Topsoil	SY	22,455.000	22,455.000
0260	628.1104	Erosion Bales	EACH	100.000	100.000
0262	628.1504	Silt Fence	LF	1,600.000	1,600.000
0264	628.1520	Silt Fence Maintenance	LF	1,600.000	1,600.000
0266	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0268	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0270	628.2004	Erosion Mat Class I Type B	SY	18,700.000	18,700.000
0272	628.2006	Erosion Mat Urban Class I Type A	SY	3,760.000	3,760.000
0276	628.7005	Inlet Protection Type A	EACH	34.000	34.000
0278	628.7010	Inlet Protection Type B	EACH	2.000	2.000
0280	628.7015	Inlet Protection Type C	EACH	14.000	14.000
0282	628.7020	Inlet Protection Type D	EACH	18.000	18.000
0284	628.7504	Temporary Ditch Checks	LF	75.000	75.000
0286	628.7555	Culvert Pipe Checks	EACH	420.000	420.000
0288	628.7560	Tracking Pads	EACH	4.000	4.000

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Line	Item	Item Description	Unit	Total	Qty
0290	628.7570	Rock Bags	EACH	100.000	100.000
0292	629.0210	Fertilizer Type B	CWT	11.800	11.800
0294	630.0130	Seeding Mixture No. 30	LB	405.000	405.000
0298	630.0500	Seed Water	MGAL	810.000	810.000
0300	633.5200	Markers Culvert End	EACH	17.000	17.000
0302	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	15.000	15.000
0304	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	43.000	43.000
0306	635.0200	Sign Supports Structural Steel HS	LB	1,200.000	1,200.000
0308	636.0100	Sign Supports Concrete Masonry	CY	2.400	2.400
0310	636.0500	Sign Supports Steel Reinforcement	LB	136.000	136.000
0312	637.1220	Signs Type I Reflective SH	SF	144.000	144.000
0314	637.2210	Signs Type II Reflective H	SF	396.290	396.290
0316	637.2230	Signs Type II Reflective F	SF	149.000	149.000
0322	638.2602	Removing Signs Type II	EACH	18.000	18.000
0324	638.3000	Removing Small Sign Supports	EACH	18.000	18.000
0326	642.5401	Field Office Type D	EACH	1.000	1.000
0328	643.0300	Traffic Control Drums	DAY	600.000	600.000
0336	643.0900	Traffic Control Signs	DAY	60.000	60.000
0344	643.5000	Traffic Control	EACH	0.100	0.100
0348	645.0120	Geotextile Type HR	SY	145.000	145.000
0352	646.1020	Marking Line Epoxy 4-Inch	LF	13,840.000	13,840.000
0356	646.3020	Marking Line Epoxy 8-Inch	LF	280.000	280.000
0364	646.6320	Marking Dotted Extension Epoxy 18-Inch	LF	100.000	100.000
0366	646.7120	Marking Diagonal Epoxy 12-Inch	LF	400.000	400.000
0368	646.8120	Marking Curb Epoxy	LF	260.000	260.000
0370	646.8220	Marking Island Nose Epoxy	EACH	5.000	5.000
0374	650.4000	Construction Staking Storm Sewer	EACH	43.000	43.000
0376	650.4500	Construction Staking Subgrade	LF	6,588.000	6,588.000
0378	650.5000	Construction Staking Base	LF	6,588.000	6,588.000
0380	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	6,330.000	6,330.000
0382	650.6000	Construction Staking Pipe Culverts	EACH	8.000	8.000
0388	650.8500	Construction Staking Electrical Installations (project) 01. 2310-14-70	LS	1.000	1.000
0390	650.9000	Construction Staking Curb Ramps	EACH	16.000	16.000
0392	650.9910	Construction Staking Supplemental Control (project) 01. 2310-14-70	LS	1.000	1.000
0396	650.9920	Construction Staking Slope Stakes	LF	6,588.000	6,588.000
0398	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	1,885.000	1,885.000
0400	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	285.000	285.000
0402	653.0140	Pull Boxes Steel 24x42-Inch	EACH	6.000	6.000

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Line	Item	Item Description	Unit	Total	Qty
0404	654.0105	Concrete Bases Type 5	EACH	16.000	16.000
0406	654.0230	Concrete Control Cabinet Bases Type L30	EACH	1.000	1.000
0408	655.0610	Electrical Wire Lighting 12 AWG	LF	2,520.000	2,520.000
0410	655.0615	Electrical Wire Lighting 10 AWG	LF	140.000	140.000
0412	655.0620	Electrical Wire Lighting 8 AWG	LF	8,705.000	8,705.000
0414	655.0640	Electrical Wire Lighting 1 AWG	LF	18.000	18.000
0416	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. 2310-14-70	LS	1.000	1.000
0418	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	16.000	16.000
0420	657.0322	Poles Type 5-Aluminum	EACH	16.000	16.000
0422	657.0610	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	EACH	6.000	6.000
0424	657.0715	Luminaire Arms Truss Type 4 1/2-Inch Clamp 15-FT	EACH	10.000	10.000
0426	659.1115	Luminaires Utility LED A	EACH	16.000	16.000
0428	659.2130	Lighting Control Cabinets 120/240 30-Inch	EACH	1.000	1.000
0430	690.0150	Sawing Asphalt	LF	80.000	80.000
0434	715.0415	Incentive Strength Concrete Pavement	DOL	500.000	500.000
0440	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	200.000	200.000
0442	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	300.000	300.000
0444	SPV.0060	Special 01. Section Corner Monuments	EACH	1.000	1.000
0448	SPV.0090	Special 02. Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D Modified	LF	216.000	216.000
0450	SPV.0090	Special 03. Double Staked Silt Fence	LF	1,200.000	1,200.000
0452	SPV.0105	Special 01. Lighting System Integrator	LS	1.000	1.000
0454	SPV.0105	Special 02. Lighting System Survey	LS	1.000	1.000
0456	SPV.0105	Special 03. Removing Traffic Signals CTH Y	LS	1.000	1.000

3

CLEARING AND GRUBBING ITEMS

CATEGORY	STATION		TO STATION	OFFSET	ALIGNMENT	201.0120 CLEARING ID	201.0220 GRUBBING ID
0010	301+70	-	302+15	LT	SW	24	24
	401+41	-	402+01	LT	SE	20	20
	504+24	-	504+70	LT	NE	11	11
TOTALS						55	55

REMOVING SMALL PIPE CULVERTS

CATEGORY	STATION	OFFSET	ALIGNMENT	203.0100 REMOVING SMALL PIPE CULVERTS EACH	COMMENTS
0010	101+84	LT & RT	EB	1	30" CPCM
	106+12	RT	EB	1	18" CPCM
	114+94	RT	EB	1	18" CPCM
	200+47	LT	NB	1	15" CPCM
	203+14	LT & RT	NB	1	24" CPCM
	208+83	LT & RT	NB	1	18" CPCM
	214+49	RT	NB	1	18" CPCM
	214+72	LT & RT	NB	1	24" CPRC
TOTAL				8	

SECTION CORNER MONUMENTS

CATEGORY	STATION	OFFSET	ALIGNMENT	SPV.0060.01 SECTION CORNER MONUMENTS EACH
0010	3+25	LT	CIRCLE	1
TOTAL				1

3

REMOVAL ITEMS

CATEGORY	STATION		TO STATION	OFFSET	ALIGNMENT	204.0150 REMOVING CURB & GUTTER LF	SPV.0105.03 REMOVE TRAFFIC SIGNALS CTH Y LS
0010	301+70	-	302+15	LT	SW	62	--
	401+41	-	402+01	LT	SE	80	0.5
	504+24	-	504+70	LT	NE	62	--
	601+35	-	601+93	LT	NW	78	0.5
TOTALS						282	1

REMOVING ASPHALTIC SURFACE

CATEGORY	STATION		TO STATION	OFFSET	ALIGNMENT	204.0110 REMOVING ASPHALTIC SURFACE SY
0010	106+63	-	107+83	RT	EB	77
	109+49	-	110+96	LT	EB	79
	209+19	-	209+78	LT	NB	32
	1+00	-	4+45.58	RT/LT	C	1,095
TOTALS						1,283

NOTE: EXISTING ASPHALTIC SURFACE TO BE REMOVED WHERE BOTTOM OF PROPOSED SUBBASE LAYER IS ABOVE EXISTING GROUND; TO BE BACKFILLED WITH AVAILABLE CUT MATERIAL. SEE ALSO "EXCAVATION COMMON" TABLE

FINISHING ROADWAY

CATEGORY	LOCATION	213.0100.01 FINISHING ROADWAY (PROJECT) 2310-14-70 EACH
0010	PROJECT	1
TOTALS		1

EARTHWORK SUMMARY

DIVISION	STATION TO STATION	LOCATION	205.0100 EXCAVATION COMMON (1) CUT (CY)	EBS EXCAVATION (CY)	SALVAGED/ UNUSABLE PAVEMENT MATERIAL (2)(3) (CY)	AVAILABLE MATERIAL (4)	EXPANDED EBS BACKFILL (5) FACTOR 1.00	UNEXPANDED FILL	EXPANDED FILL (6) FACTOR 1.25	MASS ORDINATE (7) +/-	WASTE (8)(9)	COMMENTS
EB/WB STH 60		STH 60										
	100+00 - 117+50		7,293	–	1,296	5,997	--	1,682	2,103	3,894	3,894	
	106+83 - 107+83		--	–	--	–	--	2	3	-3	--	NOTE 10
	109+49 - 110+96		--	–	--	–	--	18	23	-23	--	NOTE 10
NB/SB CTH Y		CTH Y										
	200+00 - 216+59		6,341	–	922	5,419	--	735	919	4,501	4,501	
	209+19 - 209+78		--	–	--	–	--	8	10	-10	--	NOTE 10
RAB Circle		RAB CIRLE										
	1+00 - 4+46		633	–	198	435	--	3,187	4,512	-4,077	--	
	1+00 - 4+46		--	–	--	–	--	244	305	-305	--	NOTE 10
SUBTOTAL			14,267	–	2,415	11,851	--	5,604	7,873	3,978	3,978	
UNDISTRIBUTED			–	200	–	--	200	–	--	200	200	
PROJECT TOTAL			14,267	200	2,415	11,851	200	5,604	7,873	4,178	4,178	
			14,467									

NOTE
1) Common Excavation is the sum of the Cut and EBS Excavation columns.
2) Salvaged/Unusable Pavement Material is included in Cut.
3) Salvaged/Unusable Pavement Material is the existing concrete and asphalt pavement volume, not available for fill (material to be wasted)
4) Available Material = Cut - Salvaged/Unusable Pavement Material (0 if negative)
5) Expanded EBS Backfill - This is to be filled with breaker run.
6) Expanded Fill. Factor = 1.25
7) The Mass Ordinate = available material - expanded fill; a + or - Qty calculated for the Division. Plus quantity indicates an excess of material, minus indicates a shortage of material.
8) Waste = Mass Ordinate if positive (for information only)
9) Assumes all EBS will be wasted.
10) Fill material required to backfill the existing asphalt pavement volume in locations where the proposed datum is higher than the existing ground. See also "Asphaltic Surface Removal" table.

3

BASE AGGREGATE ITEMS

CATEGORY	STATION TO STATION	OFFSET	ALIGNMENT	305.0110* BASE AGGREGATE DENSE 3/4-INCH TON	305.0120* BASE AGGREGATE DENSE 1 1/4-INCH TON	311.0110 BREAKER RUN TON
0010	100+00 – 108+01	LT & RT	EB	147	3,903	3,989
	109+45 – 117+50	LT & RT	EB	72	3,663	4,010
	200+00 – 207+54	LT & RT	NB	140	3,403	3,515
	208+98 – 216+58	LT & RT	NB	114	3,250	3,417
	1+00 – 4+46	LT & RT	C	–	1,091	1,309
	UNDISTRIBUTED			–	–	400
TOTALS				473	15,310	16,640

DRIVEWAYS

CATEGORY	STATION	OFFSET	ALIGNMENT	305.0110* BASE AGGREGATE DENSE 3/4-INCH TON	305.0120* BASE AGGREGATE DENSE 1 1/4-INCH TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
0010	106+14	RT	EB	34	–	–
	114+29	LT	WB	17	–	–
	114+90	RT	EB	79	–	–
	200+49	LT	SB	–	23	12
	214+52	RT	NB	25	–	–
TOTALS				155	23	12

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

CONCRETE PAVEMENT ITEMS

CATEGORY	STATION TO STATION	OFFSET	ALIGNMENT	405.0100 COLORING CONCRETE WISDOT RED CY	415.0120 CONCRETE PAVEMENT 12-INCH SY	416.0512 CONCRETE TRUCK APRON 12-INCH SY
0010	300+90 - 301+80	RT	SW	15	41	–
	503+44 - 504+34	RT	NE	15	44	–
	1+00 - 4+46	LT	C	130	–	385
TOTALS				160	85	385

ASPHALTIC PAVEMENT ITEMS

CATEGORY	STATION TO STATION	OFFSET	ALIGNMENT	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	465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL LF
0010	100+00 – 108+01	RT	EB	137	419	210	585
	100+00 – 108+05	LT	WB	125	393	197	620
	109+45 – 117+50	RT	EB	121	379	190	345
	109+49 – 117+50	LT	WB	138	435	217	260
	200+00 – 207+54	RT	NB	123	386	193	–
	200+00 – 207+59	LT	SB	108	340	170	–
	208+98 – 216+58	RT	NB	104	327	164	–
	209+03 – 216+58	LT	SB	114	360	180	–
	1+00 – 4+46	RT	C	70	220	110	–
TOTALS				1,040	3,260	1,630	1,810

CONCRETE CURB & GUTTER

CATEGORY	STATION		TO STATION	OFFSET	ALIGNMENT	601.0405 18-INCH TYPE A LF	601.0411 30-INCH TYPE D LF	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH LF	601.0582 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T LF	601.0600 CONCRETE CURB PEDESTRIAN LF	SPV.0090.02 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D MODIFIED LF
0010	103+80	-	105+92	LT	EB	–	–	–	408	--	--	–
	106+45	-	108+00	LT	EB	–	317	–	--	--	40	–
	109+50	-	113+71	LT	EB	–	360	–	484	--	40	–
	203+33	-	207+50	LT	NB	–	360	–	484	--	40	–
	209+00	-	213+25	LT	NB	–	360	–	484	--	40	–
	300+00	-	303+40	RT	SW	–	224	–	--	--	--	108
	400+00	-	406+13	RT	SE	–	377	233	--	--	--	–
	499+14	-	508+17	RT	NE	–	470	322	--	--	--	108
	600+00	-	603+29	RT	NW	–	329	–	--	--	--	–
	1+00	-	4+46	LT	C	245	–	–	--	335	--	–
TOTALS						245	2,797	555	1,860	335	160	216

CONCRETE SIDEWALK

CATEGORY	STATION		TO STATION	OFFSET	ALIGNMENT	602.0405 CONCRETE SIDEWALK 4-INCH SF
0010	103+87	-	105+88	LT	EB	2,100
	106+50	-	107+97	LT	EB	1,390
	109+53	-	113+63	LT	EB	4,110
	203+40	-	207+41	LT	NB	3,745
	209+06	-	213+18	LT	NB	3,835
	301+29	-	302+48	RT	SW	60
	401+12	-	402+29	RT	SE	75
	503+83	-	505+04	RT	NE	60
	601+06	-	602+20	RT	NW	75
TOTAL						15,450

CURB RAMP DETECTABLE WARNING FIELDS

CATEGORY	STATION		OFFSET	ALIGNMENT	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF
0010	107+77	LT	EB		16
	107+77	RT	WB		16
	109+74	LT	EB		16
	109+74	RT	WB		16
	207+30	RT	NB		16
	207+30	RT	SB		16
	209+28	RT	NB		16
	209+28	RT	SB		16
	301+33	RT	SW		16
	302+44	RT	SW		16
	401+16	RT	SE		16
	402+25	RT	SE		16
	503+87	RT	NE		16
	505+00	RT	NE		16
	601+10	RT	NW		16
	602+16	RT	NW		16
TOTAL					256

CONCRETE MEDIAN NOSE

CATEGORY	STATION		OFFSET	ALIGNMENT	620.0300 CONCRETE MEDIAN SLOPED NOSE (TYPE 1) SF	(TYPE 2) SF
0010	103+84	LT	EB		60	–
	105+90	LT	EB		40	–
	106+47	LT	EB		40	–
	107+95	LT	EB		–	15
	107+97	RT	WB		–	30
	109+53	LT	EB		–	30
	109+55	RT	WB		–	15
	113+66	LT	EB		60	–
	203+37	LT	NB		60	–
	207+49	LT	NB		–	15
	207+51	RT	SB		–	30
	209+06	LT	NB		–	30
	209+08	RT	SB		–	15
	213+21	LT	NB		60	–
TOTAL					320	180
					500	

CROSS CULVERT PIPE ITEMS

CATEGORY	STATION	OFFSET	ALIGNMENT	INLET ELEVATION	DISCHARGE	SLOPE	520.3318* CULVERT PIPE CLASS III-A 18-INCH LF	520.3324 CULVERT PIPE CLASS III-A 24-INCH LF	520.1018* APRON ENDWALLS FOR CULVERT PIPE 18-INCH EACH	520.1024 APRON ENDWALLS FOR CULVERT PIPE 24-INCH EACH	522.0130 CULVERT PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	633.5200* MARKERS CULVERT END EACH
0010	101+84	47.4' LT & 50.9' RT	EB	873.41	873.01	0.38%	--	–	--	–	94	2	2
	203+14	48.5' LT & 35.6' RT	NB	871.42	870.82	0.69%	--	76	--	2	–	–	2
	209+44	71.3' LT & 53.2' RT	NB	880.14	879.44	0.56%	114	–	2	–	–	–	2
	214+72	36.6' LT & 26.8' RT	NB	884.28	883.67	0.82%	--	62	--	2	–	–	2
TOTALS							114	138	2	4	94	2	8

NOTE:
1) STATION OFFSETS SHOWN ARE TO THE END OF PIPE AT APRON ENDWALLS (NOT INCLUDING LENGTH OF ENDWALL).
2) DRIVEWAY PIPE OFFSETS SHOWN ARE TO THE CENTER OF PIPE.
3) PIPE LENGTHS ARE FROM END OF PIPE TO END OF PIPE AND DOES INCLUDE LENGTH OF APRON ENDWALL

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

DRIVEWAY CULVERTS

							520.3312 CULVERT PIPE CLASS III-A 12-INCH LF	520.3315 CULVERT PIPE CLASS III-A 15-INCH LF	520.3318* CULVERT PIPE CLASS III-A 18-INCH LF	520.1012* APRON ENDWALLS FOR CULVERT PIPE 12-INCH EACH	520.1015* APRON ENDWALLS FOR CULVERT PIPE 15-INCH EACH	520.1018* APRON ENDWALLS FOR CULVERT PIPE 18-INCH EACH
CATEGORY	STATION	OFFSET	ALIGNMENT	INLET ELEVATION	DISCHARGE	SLOPE						
0010	106+06	49.6' RT	EB	876.73	876.08	0.93%	–	–	70	–	–	2
	114+92	33.1' RT	EB	881.41	881.19	0.29%	76	–	--	2	–	–
	200+47	46.3' LT	NB	873.03	872.39	0.84%	–	76	--	–	2	–
	214+45	32.2' RT	NB	885.18	884.48	1.46%	–	–	48	–	–	2
TOTALS							76	76	118	2	2	4

NOTE:
1) STATION OFFSETS SHOWN ARE TO THE END OF PIPE AT APRON ENDWALLS (NOT INCLUDING LENGTH OF ENDWALL).
2) DRIVEWAY PIPE OFFSETS SHOWN ARE TO THE CENTER OF PIPE.
3) PIPE LENGTHS ARE FROM END OF PIPE TO END OF PIPE AND DOES INCLUDE LENGTH OF APRON ENDWALL

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

UNDERDRAIN

CATEGORY	STATION		TO STATION	OFFSET	ALIGNMENT	612.0406 PIPE UNDERDRAIN WRAPPED LF	COMMENTS
0010	103+91	-	107+91	LT	EB	800	MEDIAN
	109+57	-	113+71	LT	EB	828	MEDIAN
	203+44	-	207+47	LT	NB	806	MEDIAN
	209+09	-	213+25	LT	NB	832	MEDIAN
	300+00	-	303+35	RT	SW	335	–
	400+04	-	406+13	RT	SE	610	–
	499+14	-	508+17	RT	NE	904	–
	600+00	-	603+25	RT	NW	325	–
	1+00	-	4+46	LT	C	276	–
TOTAL						5,716	

STORM SEWER ITEMS

												520.1012*	520.1015*	520.1018*	522.1012	522.1018	608.0312	608.0315	608.0318	608.3012	608.3015	608.3018	611.3004	611.3230	611.0624	611.0627	611.0636	611.0639	611.0652	633.5200*	
								DISCHARGE PIPE				APRON ENDWALLS FOR CULVERT PIPE			APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE		STORM SEWER PIPE REINFORCED CONCRETE CLASS III			STORM SEWER PIPE CLASS III-A			INLETS		INLET COVERS					MARKERS CULVERT END	
CATEGORY	STATION	OFFSET	ALIGNMENT	STRUCTURE NUMBER	RIM/GRATE ELEV.	TOP OF STRUCTURE ELEV.	DEPTH	TO STRUCTURE	INLET ELEV.	DISCHARGE ELEV.	SLOPE	12-INCH EACH	15-INCH EACH	18-INCH EACH	12-INCH EACH	18-INCH EACH	12-INCH LF	15-INCH LF	18-INCH LF	12-INCH LF	15-INCH LF	18-INCH LF	4-FT DIAMETER EACH	2x3-FT EACH	TYPE H EACH	TYPE HM EACH	TYPE HM-S EACH	TYPE H-S EACH	TYPE T EACH	EACH	COMMENTS
0010	103+93	45.1' LT	WB	100	–	–	–	–	--	875.66	–	--	–	–	1	–	--	--	--	–	–	–	--	–	–	--	--	--	–	1	
	103+91	1.5' RT	WB	101	881.80	880.80	4.65	100	876.15	875.66	1.08%	--	–	–	--	–	43	--	--	–	–	–	--	1	–	1	--	–	–	--	
	103+91	4.8' LT	EB	102	881.90	880.90	4.59	101	876.31	876.25	1.00%	--	–	–	--	–	9	--	--	–	–	–	--	1	–	1	--	–	–	--	
	106+64	45.8' LT	WB	109	–	–	–	–	--	877.90	–	--	–	–	1	–	--	--	--	–	–	–	--	–	–	--	--	--	–	1	
	106+65	23.0' LT	WB	110	882.94	881.94	3.81	109	878.13	877.90	1.11%	--	–	–	--	–	19	--	--	–	–	–	--	1	1	--	--	--	–	–	--	CONNECT UNDERDRAIN
	106+55	2.9 RT	WB	111	883.21	882.21	3.74	110	878.47	878.23	1.00%	--	–	–	--	–	28	--	--	–	–	–	--	1	1	--	--	--	–	–	--	CONNECT UNDERDRAIN
	106+66	1.5' LT	EB	112	883.10	882.10	3.42	113	878.68	878.48	0.91%	--	–	–	--	–	24	--	--	–	–	–	--	1	1	--	--	--	–	–	--	CONNECT UNDERDRAIN
	106+68	22.5' RT	EB	113	882.66	881.66	3.28	114	878.38	878.11	1.13%	--	–	–	--	–	21	--	--	–	–	–	--	1	1	--	--	--	–	–	--	CONNECT UNDERDRAIN
	106+70	44.9' RT	EB	114	–	–	–	–	--	878.11	–	--	–	–	1	–	--	--	--	–	–	–	--	–	–	--	--	--	–	1	
	111+50	40.6' LT	WB	119	–	–	–	–	--	880.78	–	--	–	–	--	1	--	--	--	–	–	–	--	--	–	--	--	--	–	1	
	111+97	21.5' LT	WB	120	884.02	883.02	1.57	121	881.45	881.39	0.40%	--	–	–	--	–	20	--	--	–	–	–	--	1	–	--	1	–	–	--	CONNECT UNDERDRAIN
	111+77	21.5' LT	WB	121	884.00	883.00	2.11	119	880.89	880.78	0.30%	--	–	–	--	–	--	--	31	–	–	–	1	–	–	--	1	–	–	--	CONNECT UNDERDRAIN
	111+97	1.5; RT	WB	122	884.42	883.42	1.89	123	881.53	881.47	0.40%	--	–	–	--	–	20	--	--	–	–	–	--	1	–	--	1	–	–	--	CONNECT UNDERDRAIN
	111+77	1.5' RT	WB	123	884.41	883.41	2.19	121	881.22	881.14	0.40%	--	–	–	--	–	--	22	--	–	–	–	1	–	–	--	1	–	–	--	CONNECT UNDERDRAIN
	111+42	1.5' LT	EB	124	884.56	883.56	1.95	123	881.61	881.47	0.40%	--	–	–	--	–	38	--	--	–	–	–	1	–	–	--	1	–	–	--	CONNECT UNDERDRAIN
	111+22	1.5' LT	EB	125	884.54	883.54	1.77	124	881.77	881.71	0.40%	--	–	–	--	–	20	--	--	–	–	–	--	1	1	--	--	--	–	–	--	CONNECT UNDERDRAIN
	111+42	21.5' RT	EB	126	884.16	883.16	2.20	127	880.96	880.88	0.50%	--	–	–	--	–	20	--	--	–	–	–	--	1	–	--	1	–	–	--	CONNECT UNDERDRAIN
	111+22	22.0' RT	EB	127	884.14	883.14	2.64	128	880.50	880.27	1.00%	--	–	–	--	–	22	--	--	–	–	–	--	1	1	--	--	--	–	–	--	CONNECT UNDERDRAIN
	111+08	42.3' RT	EB	128	–	–	–	–	--	880.50	–	--	–	–	1	–	--	--	--	–	–	–	--	–	–	--	--	--	–	1	
	210+99	19.0' RT	NB	130	886.81	885.81	3.06	131	882.75	882.56	1.00%	--	–	–	--	–	--	--	--	20	--	--	--	1	–	1	--	–	–	--	CONNECT UNDERDRAIN
	210+99	1.5' LT	NB	131	887.17	886.17	3.71	132	882.46	882.36	1.00%	--	–	–	--	–	--	--	--	12	--	--	--	1	–	1	--	–	–	--	CONNECT UNDERDRAIN
	210+98	1.5' RT	SB	132	886.80	885.80	3.54	133	882.26	881.89	1.00%	--	–	–	--	–	--	--	--	35	--	--	--	1	–	1	--	–	–	--	CONNECT UNDERDRAIN
	211+02	36.2' LT	SB	133	–	–	–	–	--	881.89	–	1	–	–	--	–	--	--	--	–	--	--	--	–	–	--	--	–	–	1	
	209+78	20.8' RT	NB	141	885.43	884.43	3.01	142	881.42	881.26	1.00%	--	–	–	--	–	--	--	--	16	--	--	--	1	–	--	--	1	–	--	CONNECT UNDERDRAIN
	209+58	18.4' RT	NB	142	885.49	884.49	3.33	144	881.16	881.00	1.00%	--	–	–	--	–	--	--	--	20	--	--	--	1	–	--	--	1	–	--	CONNECT UNDERDRAIN
	209+81	1.5' LT	NB	143	885.53	884.53	3.42	144	881.11	880.95	1.00%	--	–	–	--	–	--	--	--	20	--	--	--	1	–	--	--	1	–	--	CONNECT UNDERDRAIN
	209+61	1.5' LT	NB	144	885.51	884.51	3.86	146	880.65	880.60	1.00%	--	–	–	--	–	--	--	--	–	10	--	--	1	–	--	--	1	–	--	CONNECT UNDERDRAIN
	209+79	1.5' RT	SB	145	885.28	884.28	3.27	146	881.01	880.85	1.00%	--	–	–	--	–	--	--	--	20	--	--	--	1	–	--	--	1	–	--	CONNECT UNDERDRAIN
	209+59	1.5' RT	SB	146	885.23	884.23	3.73	148	880.50	880.34	1.00%	--	–	–	--	–	--	--	--	–	20	--	--	1	–	--	--	1	–	--	CONNECT UNDERDRAIN
	209+81	17.5' LT	SB	147	885.09	884.09	3.37	148	880.72	880.56	1.00%	--	–	–	--	–	--	--	--	20	--	--	--	1	–	--	--	1	–	--	CONNECT UNDERDRAIN
	209+58	18.6' LT	SB	148	885.12	884.12	4.28	149	879.84	879.52	0.88%	--	–	–	--	–	--	--	--	–	36	--	--	1	–	--	--	1	–	--	CONNECT UNDERDRAIN
	209+53	56.5' LT	SB	149	–	–	–	–	--	879.52	–	--	1	–	--	–	--	--	--	–	--	--	--	–	–	--	--	–	–	1	
	3+36	1.5' LT	C	150	884.15	883.07	2.71	151	880.36	880.14	1.00%	--	–	–	--	–	26	--	--	–	--	--	1	–	–	--	--	–	1	--	CONNECT UNDERDRAIN
	3+63	1.5' LT	C	151	884.03	882.95	2.91	113	880.04	878.48	1.00%	--	–	–	--	–	162	--	--	–	--	--	1	–	–	--	--	–	1	--	CONNECT UNDERDRAIN
	207+47	20.7' LT	SB	152	883.74	882.74	4.51	156	878.23	877.18	1.00%	--	–	–	--	–	--	--	--	–	109	--	--	1	1	--	--	–	–	--	CONNECT UNDERDRAIN
	206+09	21.5' RT	NB	153	881.07	880.07	2.41	154	877.66	877.44	1.00%	--	–	–	--	–	--	--	--	26	--	--	--	1	1	--	--	–	–	--	CONNECT UNDERDRAIN
	206+22	1.5' LT	NB	154	881.73	880.73	3.29	155	877.44	877.40	1.00%	--	–	–	--	–	--	--	--	8	--	--	--	1	1	--	--	–	–	--	CONNECT UNDERDRAIN
	206+24	1.5' RT	SB	155	881.28	880.28	2.99	156	877.29	877.18	0.50%	--	–	–	--	–	--	--	--	–	26	--	--	1	1	--	--	–	–	--	CONNECT UNDERDRAIN
	206+35	21.7' LT	SB	156	881.13	880.13	3.05	157	877.08	876.98	0.50%	--	–	–	--	–	--	--	--	–	--	20	1	–	1	--	--	–	–	--	CONNECT UNDERDRAIN
	206+19	37.2' LT	SB	157	–	–	–	–	--	876.98	–	--	–	1	--	–	--	--	--	–	--	--	--	–	–	--	--	–	–	1	
	203+44	3.1' LT	NB	160	876.77	875.77	2.65	161	873.12	873.06	1.00%	--	–	–	--	–	--	--	--	8	--	--	--	1	–	1	--	–	–	--	CONNECT UNDERDRAIN
	203+44	1.5' RT	SB	161	876.96	875.96	3.00	162	872.96	872.60	1.00%	--	–	–	--	–	--	--	--	35	--	--	--	1	–	1	--	–	–	--	CONNECT UNDERDRAIN
	203+48	35.7' LT	SB	162	–	–	–	–	--	872.60	–	1	–	–	--	–	--	--	--	–	--	--	--	–	–	--	--	–	–	1	
TOTALS												2	1	1	4	1	472	22	31	240	201	20	6	28	11	7	6	8	2	9	

NOTE
1) STRUCTURE OFFSET IS TO THE CENTER OF STRUCTURE AND ENDWALL OFFSET IS TO END OF APRON ENDWALL.
2) RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE FOR INLET GRATES OR THE CENTER OF THE MANHOLE COVER FOR MANHOLES
3) TOP OF STRUCTURE ELEVATION DETERMINED BY SUBTRACTING CASTING HEIGHT AND 6-INCHES, FOR ADJUSTMENT, FROM RIM ELEVATION.
3) DEPTH = RIM ELEVATION - INVERT - CASTING HEIGHT - ADJUSTMENT CASTING HEIGHT = 0.5 FT FOR TYPE H, HM, HM-S, AND H- S COVERS; 0.58 FT FOR TYPE T COVERS ADJUSTMENT (RINGS) = 0.5 FT

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

RIPRAP ITEMS

CATEGORY	STATION	OFFSET	ALIGNMENT	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY
0010	101+85	RT	EB	6	19
	103+93	LT	WB	2	9
	105+64	RT	EB	3	10
	106+64	LT	WB	2	9
	106+70	RT	EB	2	9
	111+08	RT	EB	2	9
	111+50	LT	WB	3	11
	203+48	LT	SB	2	9
	206+19	LT	SB	3	10
	209+42	LT	SB	9	27
	211+02	LT	SB	2	9
	214+63	LT	SB	4	14
TOTALS				40	145

EROSION CONTROL ITEMS

CATEGORY	STATION		TO STATION	OFFSET	ALIGNMENT	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 * CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	SPV.0090.03 DOUBLE STAKED SILT FENCE LF
0010	100+00	–	108+01	RT	EB	–	110	110	25	30	–	335
	100+00	–	108+05	LT	WB	–	150	150	25	60	–	430
	109+45	–	117+50	RT	EB	–	270	270	--	40	–	–
	109+49	–	117+50	LT	WB	–	300	300	--	–	–	–
	200+00	–	207+54	RT	NB	–	–	–	--	60	–	–
	200+00	–	207+59	LT	SB	–	30	30	--	40	–	305
	208+98	–	216+58	RT	NB	–	60	60	--	120	–	–
	209+03	–	216+58	LT	SB	–	370	370	--	–	–	–
	UNDISTRIBUTED					100	310	310	25	– 70	100	130
TOTALS						100	1,600	1,600	75	420	100	1,200

NOTE:
1) ROCK BAGS TO BE USED FOR SILT FENCE RELIEF AND AS DIRECTED BY THE ENGINEER

* FOR INFORMATION ONLY

ESTIMATED BAG SIZE = 18" X 12" X 6"

PIPE SIZE	ESTIMATED NUMBER OF BAGS
12"	1
15"	2
18"	2
24"	3
30"	5

RESTORATION ITEMS

CATEGORY	STATION		TO STATION	OFFSET	ALIGNMENT	625.0500 SALVAGED TOPSOIL SY	628.2004 EROSION MAT CLASS I TYPE B SY	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0500 SEED WATER MGAL
0010	100+00	–	108+01	RT	EB	2,739	2,066	673	1.3	49	198
	100+00	–	108+05	LT	WB	2,812	2,157	655	1.4	51	204
	109+45	–	117+50	RT	EB	1,937	1,551	386	1.0	35	47
	109+49	–	117+50	LT	WB	2,118	1,706	412	1.1	38	51
	200+00	–	207+54	RT	NB	2,383	2,234	149	1.4	43	57
	200+00	–	207+59	LT	SB	1,698	1,444	254	0.9	31	41
	208+98	–	216+58	RT	NB	2,043	1,705	338	1.1	37	49
	209+03	–	216+58	LT	SB	2,234	2,095	139	1.3	40	54
	UNDISTRIBUTED					4,491	3,742	754	2.3	81	108
TOTALS						22,455	18,700	3,760	11.8	405	810

EROSION CONTROL MOBILIZATION

CATEGORY	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0010	PROJECT	4	3
TOTALS		4	3

ASPHALT FLUMES

CATEGORY	STATION	OFFSET	ALIGNMENT	465.0315 ASPHALTIC FLUMES SY
0010	114+60	LT	WB	20
	113+75	RT	EB	20
TOTALS				40

INLET PROTECTION

CATEGORY	STATION	OFFSET	ALIGNMENT	STRUCTURE NUMBER	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH
0010	103+91	1.5' RT	WB	101	1	–	–	1
	103+91	4.8' LT	EB	102	1	–	–	1
	106+65	23.0' LT	WB	110	1	–	1	--
	106+55	2.9 RT	WB	111	1	–	1	--
	106+66	1.5' LT	EB	112	1	–	1	--
	106+68	22.5' RT	EB	113	1	–	1	--
	111+97	21.5' LT	WB	120	1	–	–	1
	111+77	21.5' LT	WB	121	1	–	–	1
	111+97	1.5; RT	WB	122	1	–	–	1
	111+77	1.5' RT	WB	123	1	–	–	1
	111+42	1.5' LT	EB	124	1	–	–	1
	111+22	1.5' LT	EB	125	1	–	–	1
	111+42	21.5' RT	EB	126	1	–	–	1
	111+22	22.0' RT	EB	127	1	–	–	1
	210+99	19.0' RT	NB	130	1	–	1	--
	210+99	1.5' LT	NB	131	1	–	1	--
	210+98	1.5' RT	SB	132	1	–	1	--
	209+78	20.8' RT	NB	141	1	–	–	1
	209+58	18.4' RT	NB	142	1	–	–	1
	209+81	1.5' LT	NB	143	1	–	–	1
	209+61	1.5' LT	NB	144	1	–	–	1
	209+79	1.5' RT	SB	145	1	–	–	1
	209+59	1.5' RT	SB	146	1	–	–	1
	209+81	17.5' LT	SB	147	1	–	–	1
	209+58	18.6' LT	SB	148	1	–	–	1
	3+36	1.5' LT	C	150	1	1	–	--
	3+63	1.5' LT	C	151	1	1	–	--
	207+47	20.7' LT	SB	152	1	–	1	--
	206+09	21.5' RT	NB	153	1	–	1	--
	206+22	1.5' LT	NB	154	1	–	1	--
	206+24	1.5' RT	SB	155	1	–	1	--
	206+35	21.7' LT	SB	156	1	–	1	--
	203+44	3.1' LT	NB	160	1	–	1	--
	203+44	1.5' RT	SB	161	1	–	1	--
TOTALS					34	2	14	18

TRACKING PADS

CATEGORY	LOCATION	628.7560 TRACKING PADS EACH
0010	PROJECT	4
TOTALS		4

DUST CONTROL SURFACE TREATMENT

CATEGORY	LOCATION	623.0200 SY
0010	PROJECT	22,300
TOTAL		22,300

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	643.0300 STAGE DURATION DAYS	643.0300 TRAFFIC CONTROL DRUMS NO.	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0900 TRAFFIC CONTROL SIGNS NO.	643.0900 TRAFFIC CONTROL SIGNS DAY	643.5000 TRAFFIC CONTROL EACH	COMMENTS
0010	UNDISTRIBUTED	87	40	600	4	60	0.1	
	PROJECT TOTAL			600		60	0.1	

PAVEMENT MARKING ITEMS

CATEGORY	STATION		TOSTATION	OFFSET	ALIGNMENT	646.1020 MARKING LINE EPOXY 4-INCH 3' LINE 9' SKIP (WH LF	646.1020 MARKING LINE EPOXY 4-INCH (WHITE) LF	646.1020 MARKING LINE EPOXY 4-INCH (YELLOW) LF	646.3020 MARKING LINE EPOXY 8-INCH (WHITE) LF	646.6320 MARKING DOTTED EXTENSION EPOXY 18-INCH 2' LINE 2' SKIP (WHITE) LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH 25' SPACING (YELLOW) LF	646.8120 MARKING CURB EPOXY (YELLOW) LF	646.8220 MARKING ISLAND NOSE EPOXY (YELLOW) EACH
0010	100+00	-	108+00	LT & RT	EB	40	1,289	2,259	68	25	115	82	2
	109+45	-	117+50	LT & RT	EB	46	1,287	2,239	68	25	115	72	1
	200+00	-	207+54	LT & RT	NB	38	1,232	2,051	72	25	85	53	1
	208+98	-	216+59	LT & RT	NB	34	1,248	2,077	72	25	85	53	1
TOTALS						158	5,056	8,626	280	100	400	260	5
							13,840						

WATER

CATEGORY	LOCATION	624.0100 MGAL
0010	PROJECT-BASE COMPACTION	150
	PROJECT-COMMON EXCAVATION	70
TOTAL		220

FIELD OFFICE

CATEGORY	LOCATION	642.5401 FIELD OFFICE TYPE D EACH
0010	PROJECT	1
TOTALS		1

SAWING

CATEGORY	STATION	OFFSET	ALIGNMENT	690.0150 SAWING ASPHALT LF
0010	100+00	LT & RT	EB	30
	117+50	LT & RT	EB	30
0010	200+00	LT & RT	NB	30
	200+48	LT	NB	20
	216+59	LT & RT	NB	30
TOTALS				80

MOBILIZATION

CATEGORY	LOCATION	619.1000 MOBILIZATION EACH
0010	PROJECT	0.35
TOTALS		0.35

CONSTRUCTION STAKING ITEMS

CATEGORY	STATION		TO STATION	OFFSET	ALIGNMENT	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL LS	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010	100+00	-	108+01	LT & RT	EB	4	801	801	350	2	1	–	801
	100+00		108+05	LT & RT	WB	5	805	805	351	–	1	–	805
	109+45	-	117+50	LT & RT	EB	5	805	805	410	1	1	–	805
	109+49		117+50	LT & RT	WB	5	801	801	410	–	1	–	801
	200+00	-	207+54	LT & RT	NB	3	754	754	410	1	1	–	754
	200+00		207+59	LT & RT	SB	6	759	759	410	1	1	–	759
	208+98	-	216+59	LT & RT	NB	6	761	761	410	3	1	–	761
	209+03		216+59	LT & RT	SB	7	756	756	410	–	1	–	756
	300+00	-	303+40	RT	SW	–	–	–	649	–	2	–	--
	400+00	-	406+13	RT	SE	–	–	–	610	–	2	–	--
	499+14	-	508+17	RT	NE	–	–	–	905	–	2	–	--
	600+00	-	603+29	RT	NW	–	–	–	329	–	2	–	--
	1+00	-	4+46	LT & RT	C	2	346	346	676	–	–	–	346
	PROJECT			–	–	–	–	–	–	–	–	1	--
TOTALS						43	6,588	6,588	6,330	8	16	1	6,588

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CATEGORY 0060
LIGHTING SYSTEM ITEMS

650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (I.D. 2310-14-70)
654.0230 CONCRETE CONTROL CABINET BASES TYPE L30
655.0640 ELECTRICAL WIRE LIGHTING 1 AWG
656.0200 ELECTRICAL SERVICE METER BREAKER PEDESTAL
659.2130 LIGHTING CONTROL CABINETS 120/240 30 - INCH
SPV.0105.01 LIGHTING SYSTEM INTEGRATOR
SPV.0105.02 LIGHTING SYSTEM SURVEY

SYSTEM	LOCATION	650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (I.D. 3360-09-72) LS	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30 EACH	655.0640 ELECTRICAL WIRE LIGHTING 1 AWG LF	656.0200 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS	659.2130 LIGHTING CONTROL CABINETS 120/240 30 - INCH EACH	SPV.0105.01 LIGHTING SYSTEM INTEGRATOR LS	SPV.0105.02 LIGHTING SYSTEM SURVEY LS
L-45-GU	107+64, 45 LT (NE QUADRANT STH 60 & CTH Y)	1	1	18	1	1	1	1
	TOTAL (0060)	1	1	18	1	1	1	1

PLAQUE TEXT L-45-GU
STH 60/ CTH Y
240 VAC WARNING DECAL (METER PEDESTAL AND CABINET DOOR)

CATEGORY 0060
LIGHTING PULL BOX QUANTITIES

653.0140 PULL BOXES STEEL 24 X 42-INCH
655.0615 ELECTRICAL WIRE LIGHTING 10 AWG (GROUNDING WIRE)

SYSTEM	LOCATION	LABEL	653.0140 PULL BOXES STEEL 24 X 42 EACH	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	COMMENTS
L-45-GU	107+46, 35' LT	LPB101	1	10	STH 60
L-45-GU	209+71, 36' LT	LPB102	1	10	GRANVILLE RD
L-45-GU	209+65, 37' RT	LPB103	1	45	GRANVILLE RD
L-45-GU	107+64, 41 RT	LPB104	1	25	STH 60
L-45-GU	207+20, 36 LT	LPB105	1	20	GRANVILLE RD
L-45-GU	207+24, 37 RT	LPB106	1	30	GRANVILLE RD
	TOTAL (0060)		6	140	

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CATEGORY 0060
LIGHTING BRANCH CIRCUIT CONDUIT

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH

SYSTEM	LOCATION TO LOCATION	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
L-45-GU	LIGHTING CONTROL CABINET (I-45-GU) TO LPB 101	--	20
L-45-GU	LPB101 TO POLE 107+88	30	--
L-45-GU	POLE 107+88 TO LPB102	110	--
L-45-GU	LPB102 TO POLE 209+79	10	--
L-45-GU	POLE209+79 TO POLE 211+41	170	--
L-45-GU	POLE 211+41 TO POLE 213+00	150	--
L-45-GU	POLE 213+00 TO STUBOUT NORTH	15	--
L-45-GU	LPB102 TO LPB 103	--	85
L-45-GU	LPB 103 TO POLE 209+17	45	--
L-45-GU	POLE 209+17 TO POLE 110+26	110	--
L-45-GU	POLE 110+26 TO POLE 111+92	195	--
L-45-GU	POLE 111+92 TO POLE 113+50	160	--
L-45-GU	LPB101 TO LPB 104	--	90
L-45-GU	LPB 104 TO POLE 207+80	25	--
L-45-GU	POLE 207+24 TO POLE 105+70	155	--
L-45-GU	POLE 105+70 TO POLE 104+17	150	--
L-45-GU	POLE 104+17 TO STUBOUT WEST	15	--
L-45-GU	LPB 104 TO POLE 207+41	70	--
L-45-GU	POLE 207+41 TO LPB 105	20	--
L-45-GU	LPB 105 TO LPB106	--	90
L-45-GU	LPB 106 TO POLE 206+78	30	--
L-45-GU	POLE 206+78 TO POLE 205+02	170	--
L-45-GU	POLE 205+02 TO POLE 203+44	155	--
L-45-GU	POLE 203+44 TO STUBOUT SOUTH	15	--
L-45-GU	LPB 106 TO POLE 109+62	70	--
L-45-GU	POLE 109+62 TO STUBOUT EAST	15	--
	TOTAL (0060)	**1,885**	**285**

CATEGORY 0060
LIGHTING WIRE QUANTITIES
120/240 VAC 3-WIRE ISOLATED NEUTRAL SYSTEM

655.0620 ELECTRICAL WIRE LIGHTING 8 AWG

SYSTEM	NETWORK	LOCATION TO LOCATION	DISTANCE	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF
L-45-GU	A/B/N/G	LIGHT CONTROL CABINET (L-45-GU) TO LPB 101 TO POLE 107.88	50	260
L-45-GU	A/B/N/G	POLE 107.88 TO LPB 102 TO POLE 209+79	120	520
L-45-GU	A/B/N/G	POLE 209+79 TO POLE 211+41	170	800
L-45-GU	A/B/N/G	POLE 211+41 TO POLE 213+00	150	510
L-45-GU	A/B/N/G	POLE 209+79 TO LPB 102 TO LPB 103 TO POLE 209+17	140	600
L-45-GU	A/B/N/G	POLE 209+17 TO 110+27	110	520
L-45-GU	A/B/N/G	POLE 110+27 TO POLE 111+92	195	820
L-45-GU	A/B/N/G	POLE 111+92 TO POLE 113+50	160	510
L-45-GU	C/D/N/G	LIGHTING CONTROL CABINET (L-45-GU) TO LPB 101 TO LPB 104 TO POLE 107+24	125	600
L-45-GU	C/D/N/G	POLE 107+24 TO POLE 105+70	155	660
L-45-GU	C/D/N/G	POLE 105+70 TO POLE 104+17	150	510
L-45-GU	C/D/N/G	POLE 107+24 TO LPB 104 TO POLE 207+41	115	580
L-45-GU	C/D/N/G	POLE 207+41 TO LPB 105 TO LPB 106 TO POLE 206+78	140	600
L-45-GU	C/D/N/G	POLE 206+78 TO POLE 205+03	170	720
L-45-GU	C/D/N/G	POLE 205+03 TO POLE 203+44	155	495
L-45-GU	C/D/N/G	POLE 206+78 TO LPB 106 TO POLE 109+62	110	330
		TOTAL (0060)		**8,705**

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CATEGORY 0060
LIGHT POLE QUANTITIES
120/240 VAC

654.0105	CONCRETE BASES TYPE 5
655.0610	ELECTRICAL WIRE LIGHTING 12 AWG
657.0255	TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE
657.0322	POLES TYPE 5-ALUMINUM
657.0610	LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT
657.0715	LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT
659.1115	LUMINAIRES UTILITY LED A

SYSTEM	STATION	OFFSET	SEQUENCE I.D.	654.0105 CONCRETE BASES TYPE 5	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE	657.0322 POLES TYPE 5 ALUMINUM	657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT	657.0715 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT	659.1115 LUMINAIRES UTILITY LED A
				EACH	LF	EACH	EACH	EACH	EACH	EACH
L-45-GU	107+88	38 LEFT	AGU1	1	171	1	1	--	1	1
L-45-GU	209+79	36 LEFT	BGU2	1	171	1	1	--	1	1
L-45-GU	211+41	23 LEFT	AGU2	1	144	1	1	1	--	1
L-45-GU	213+00	23 LEFT	BGU2	1	144	1	1	1	--	1
L-45-GU	209+17	38 RIGHT	AGU3	1	171	1	1	--	1	1
L-45-GU	110+27	36 LEFT	BGU3	1	171	1	1	--	1	1
L-45-GU	111+92	28 LEFT	AGU4	1	144	1	1	--	1	1
L-45-GU	113+50	28 LEFT	BGU4	1	144	1	1	--	1	1
L-45-GU	104+17	27 RIGHT	CGU1	1	144	1	1	1	--	1
L-45-GU	105+70	27 RIGHT	DGU1	1	144	1	1	1	--	1
L-45-GU	107+24	36 RIGHT	CGU2	1	171	1	1	--	1	1
L-45-GU	207+41	38 LEFT	DGU2	1	171	1	1	--	1	1
L-45-GU	203+44	25 RIGHT	CGU3	1	144	1	1	1	--	1
L-45-GU	205+03	25 RIGHT	DGU3	1	144	1	1	1	--	1
L-45-GU	206+78	36 RIGHT	CGU4	1	171	1	1	--	1	1
L-45-GU	109+62	38 RIGHT	DGU4	1	171	1	1	--	1	1
TOTAL (0060)				**16**	**2,520**	**16**	**16**	**6**	**10**	**16**

TYPE II SIGN REMOVAL **2310-14-70 STH 60**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS / SIGN LOCATION
1R	W2-1	--	1	1	ALSO REMOVE W14-3 AND GRANVILLE RD
2R	J2-2	--	1	1	--
3R	R59-51	--	1	1	--
4R	J13-1	--	1	1	--
5R	R1-1	--	1	1	ALSO REMOVE W4-4C
6R	J3-2	--	1	1	--
7R	J13-1	--	1	1	--
8R	R1-1	--	1	1	ALSO REMOVE W4-4C
9R	J3-2	--	1	1	--
10R	J2-2	--	1	1	--
11R	W2-1	--	1	1	ALSO REMOVE GRANVILLE RD
12R	J1-1	--	1	1	--
13R	W3-1	--	1	1	--
14R	W3-1	--	1	1	--
15R	M1-5A	CTH Y	1	1	--
16R	M1-5A	CTH Y	1	1	--
17R	W3-1	--	1	1	--
18R	W3-1	--	1	1	--
--	--	--	--	--	--
TOTALS			18	18	

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SHEET 1 OF 1

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	634.0618 POSTS WOOD 4"x6"x18' [EA]	634.0814 POSTS TUBULAR STEEL 2"x2"x14' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]
1	W2-6(2S)	II	--	30 x 30	--	6.250	1	--	--	16 X 16 ORANGE FLAGS INCIDENTAL	-- x --	--	--	--	--	--
2	W13-1(2S)	II	15 MPH	18 x 18	--	2.250	--	--	1	--	-- x --	--	--	--	--	--
3	D1-62	I	EAST NORTH [60] SOUTH [Y] [A] [Y] GRANVILLE RD GRANVILLE RD	-- x --	--	--	--	--	--	ON STEEL POSTS	12 x 6	72.00	A	1.2	68	600
4	W3-2(2S)	II	--	36 x 36	-	9.000	1	--	--	--	-- x --	--	--	--	--	--
5	R4-7(3)	II	--	36 x 48	12.000	--	--	1	--	--	-- x --	--	--	--	--	--
6	W5-54(2S)	II	--	18 x 18	--	2.250	--	--	5	--	-- x --	--	--	--	--	--
7	R2-1(2S)	II	55 MPH	24 x 30	5.000	--	--	1	--	--	-- x --	--	--	--	--	--
8	J4-1(2S) M3-4 M1-6	II	-- -- STH 60	24 x 36 24 x 12 24 x 24	6.000	--	--	1	--	--	-- x --	--	--	--	--	--
9	D1-2	II	WEST [60] [A]	42 x 30	8.750	--	--	1	--	--	-- x --	--	--	--	--	--
10	R1-2(2S)	II	--	36 x 31	3.880	--	--	1	--	16 X 16 ORANGE FLAGS INCIDENTAL 7' MOUNT HEIGHT TO BOTTOM OF R1-2	-- x --	--	--	--	--	--
11	R1-54(2S)	II	--	24 x 15	2.500	--	--	--	10	--	-- x --	--	--	--	--	--
12	R1-2(2S)	II	--	36 x 31	3.880	--	--	1	--	16 X 16 ORANGE FLAGS INCIDENTAL 7' MOUNT HEIGHT TO BOTTOM OF R1-2	-- x --	--	--	--	--	--
13	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	13	--	-- x --	--	--	--	--	--
14	D1-2	II	NORTH [Y] GRANVILLE RD [A]	72 x 30	15.000	--	--	2	--	--	-- x --	--	--	--	--	--
15	R1-2(2S)	II	--	36 x 31	3.880	--	--	1	--	16 X 16 ORANGE FLAGS INCIDENTAL 7' MOUNT HEIGHT TO BOTTOM OF R1-2	-- x --	--	--	--	--	--
16	R1-54(2S)	II	--	24 x 15	2.500	--	--	--	15	--	-- x --	--	--	--	--	--
17	R1-2(2S)	II	--	36 x 31	3.880	--	--	1	--	16 X 16 ORANGE FLAGS INCIDENTAL 7' MOUNT HEIGHT TO BOTTOM OF R1-2	-- x --	--	--	--	--	--
18	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	17	--	-- x --	--	--	--	--	--
19	D1-2	II	EAST [60] [A]	42 x 30	8.750	--	--	1	--	--	-- x --	--	--	--	--	--
20	R6-1R(2S)	II	--	36 x 12	3.000	--	--	2	--	--	-- x --	--	--	--	--	--
21	R6-4B(2S)	II	--	60 x 24	10.000	--	--	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--
22	R6-1R(2S)	II	--	36 x 12	3.000	--	--	2	--	--	-- x --	--	--	--	--	--
23	R6-4B(2S)	II	--	60 x 24	10.000	--	--	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--
24	R6-1R(2S)	II	--	36 x 12	3.000	--	--	2	--	--	-- x --	--	--	--	--	--
25	R6-4B(2S)	II	--	60 x 24	10.000	--	--	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--
26	R6-1R(2S)	II	--	36 x 12	3.000	--	--	2	--	--	-- x --	--	--	--	--	--
27	R6-4B(2S)	II	--	60 x 24	10.000	--	--	--	--	4 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--
28	R1-2(2S)	II	--	36 x 31	3.880	--	--	1	--	16 X 16 ORANGE FLAGS INCIDENTAL 7' MOUNT HEIGHT TO BOTTOM OF R1-2	-- x --	--	--	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	634.0618 POSTS WOOD 4"x6"x18' [EA]	634.0814 POSTS TUBULAR STEEL 2"x2"x14' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]
29	R1-54(2S)	II	--	24 x 15	2.500	--	--	--	28	--	-- x --	--	--	--	--	--
30	R1-2(2S)	II	--	36 x 31	3.880	--	--	1	--	16 X 16 ORANGE FLAGS INCIDENTAL 7' MOUNT HEIGHT TO BOTTOM OF R1-2	-- x --	--	--	--	--	--
31	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	30	--	-- x --	--	--	--	--	--
32	D1-2	II	SOUTH [Y] GRANVILLE RD [A]	72 x 30	15.000	15.000	--	2	--	--	-- x --	--	--	--	--	--
33	R1-2(2S)	II	--	36 x 31	3.880	--	--	1	--	16 X 16 ORANGE FLAGS INCIDENTAL 7' MOUNT HEIGHT TO BOTTOM OF R1-2	-- x --	--	--	--	--	--
34	R1-54(2S)	II	--	24 x 15	2.500	--	--	--	33	--	-- x --	--	--	--	--	--
35	R1-2(2S)	II	--	36 x 31	3.880	--	--	1	--	16 X 16 ORANGE FLAGS INCIDENTAL 7' MOUNT HEIGHT TO BOTTOM OF R1-2	-- x --	--	--	--	--	--
36	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	35	--	-- x --	--	--	--	--	--
37	W12-1R(2S)	II	--	24 x 24	--	4.000	--	1	--	2 FT MOUNTING HEIGHT	-- x --	--	--	--	--	--
38	J4-1(2S)	II	--	24 x 36	6.000	--	--	1	--	--	-- x --	--	--	--	--	--
39	R2-1(2S)	II	55 MPH	24 x 30	5.000	--	--	1	--	--	-- x --	--	--	--	--	--
40	R4-7(3)	II	--	36 x 48	12.000	--	--	1	--	--	-- x --	--	--	--	--	--
41	W5-54(2S)	II	--	18 x 18	--	2.250	--	--	41	--	-- x --	--	--	--	--	--
42	W3-2(2S)	II	--	36 x 36	--	9.000	1	--	--	--	-- x --	--	--	--	--	--
43	D1-62	I	WEST SOUTH [60] NORTH [Y] [A] [Y] GRANVILLE RD GRANVILLE RD	-- x --	--	--	--	--	--	ON STEEL POSTS	12 x 6	72.00	A	1.2	68	600
44	W2-6(2S)	II	--	30 x 30	--	6.250	1	--	--	16 X 16 ORANGE FLAGS INCIDENTAL	-- x --	--	--	--	--	--
45	W13-1(2S)	II	15 MPH	18 x 18	--	2.250	--	--	44	--	-- x --	--	--	--	--	--
46	J1-1(2S) M2-1 M1-6	II	-- -- STH 60	24 x 39 21 x 15 24 x 24	6.500	--	1	--	--	--	-- x --	--	--	--	--	--
47	W2-6(2S)	II	--	30 x 30	--	6.250	--	--	--	16 X 16 ORANGE FLAGS INCIDENTAL	-- x --	--	--	--	--	--
48	W13-1(2S)	II	15 MPH	18 x 18	--	2.250	--	--	47	--	-- x --	--	--	--	--	--
49	D1-62	II	SOUTH EAST [Y] WEST [60] [A] [60]	102 x 66	46.750	--	3	--	--	--	-- x --	--	--	--	--	--
50	W3-2(2S)	II	--	36 x 36	--	9.000	1	--	--	--	-- x --	--	--	--	--	--
51	R4-7(3)	II	--	36 x 48	12.000	--	--	1	--	--	-- x --	--	--	--	--	--
52	W5-54(2S)	II	--	18 x 18	--	2.250	--	--	52	--	-- x --	--	--	--	--	--
53	R2-1(2S)	II	55 MPH	24 x 30	5.000	--	--	1	--	--	-- x --	--	--	--	--	--
54	J4-1(2S) M3-1 M1-5A	II	-- NORTH CTH Y	24 x 36 24 x 12 24 x 24	6.000	--	--	1	--	--	-- x --	--	--	--	--	--
55	M1-5A(2S) M3-3 M1-5A	II	-- SOUTH CTH Y	24 x 36 24 x 12 24 x 24	6.000	--	--	1	--	--	-- x --	--	--	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	634.0618 POSTS WOOD 4"x6"x18' [EA]	634.0814 POSTS TUBULAR STEEL 2"x2"x14' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]
56	R2-1(2S)	II	55 MPH	24 x 30	5.000	--	--	1	--	--	-- x --	--	--	--	--	--
57	R4-7(3)	II	--	36 x 48	12.000	--	--	1	--	--	-- x --	--	--	--	--	--
58	W5-54(2S)	II	--	18 x 18	--	2.250	--	--	58	--	-- x --	--	--	--	--	--
59	W3-2(2S)	II	--	36 x 36	--	9.000	1	--	--	--	-- x --	--	--	--	--	--
60	D1-62	II	NORTH WEST [Y] EAST [60] [A] [60]	102 x 66	46.750	--	3	--	--	--	-- x --	--	--	--	--	--
61	W2-6(2S)	II	--	30 x 30	--	6.250	1	--	--	16 X 16 ORANGE FLAGS INCIDENTAL	-- x --	--	--	--	--	--
62	W13-1(2S)	II	15 MPH	18 x 18	--	2.250	--	--	61	--	-- x --	--	--	--	--	--
63	J1-1(2S) M2-1 M1-6	II	-- -- STH 60	-- x -- x x	--	--	1	--	--	--	-- x --	--	--	--	--	--
64	D1-1	II	[A] NEWBURG	66 x 15	6.875	--	--	2	--	SHEET 2 OF 8	-- x --	--	--	--	--	--
65	D1-1	II	NEWBURG [A]	66 x 15	6.875	--	--	2	--	SHEET 3 OF 8	-- x --	--	--	--	--	--
66	W6-3(2S)	II	--	36 x 36	--	9.000	--	1	--	SHEET 1 OF 8	-- x --	--	--	--	--	--
67	R5-1(2S)	II	--	30 x 30	6.250	--	--	--	7	SHEET 1 OF 8	-- x --	--	--	--	--	--
68	W14-3(2S)	II	--	48 x 36	--	6.000	--	--	5	SHEET 1 OF 8	-- x --	--	--	--	--	--
69	R4-7(2S)	II	--	24 x 30	5.000	--	--	1	--	SHEET 2 OF 8	-- x --	--	--	--	--	--
70	W14-3(2S)	II	--	48 x 36	--	6.000	--	--	40	SHEET 3 OF 8	-- x --	--	--	--	--	--
71	R5-1(2S)	II	--	30 x 30	6.250	--	--	--	39	SHEET 3 OF 8	-- x --	--	--	--	--	--
72	W6-3(2S)	II	--	36 x 36	--	9.000	--	1	--	SHEET 3 OF 8	-- x --	--	--	--	--	--
73	W6-3(2S)	II	--	36 x 36	--	9.000	--	1	--	SHEET 6 OF 8	-- x --	--	--	--	--	--
74	R5-1(2S)	II	--	30 x 30	6.250	--	--	--	53	SHEET 6 OF 8	-- x --	--	--	--	--	--
75	W14-3(2S)	II	--	48 x 36	--	6.000	--	--	51	SHEET 6 OF 8	-- x --	--	--	--	--	--
76	W14-3(2S)	II	--	48 x 36	--	6.000	--	--	57	SHEET 7 OF 8	-- x --	--	--	--	--	--
77	R5-1(2S)	II	--	30 x 30	6.250	--	--	--	56	SHEET 7 OF 8	-- x --	--	--	--	--	--
--	--	--	--	-- x --	--	--	--	--	--	--	-- x --	--	--	--	--	--
TOTALS					396.290	149.000	15	43				144.000	--	2.4	136	1200

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET

2310-14-20

OZAUKEE COUNTY LIMITS TO CEDARBURG

STH 60
OZAUKEE COUNTY

CONVENTIONAL SYMBOLS

SLOPE INTERCEPTS
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING HIGHWAY EASEMENT
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT

SECTION CORNER
NOTATION FOR COMBUSTABLE FLUIDS
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES
ELECTRIC POLE
TELEPHONE POLE
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)
BRIDGE

R/W MONUMENT
NON-MONUMENTED R/W POINT
FOUND IRON PIN
VALVE (GAS, WATER, ETC.)
SIGN
OFF-PREMISE SIGN
COMPENSABLE
NON-COMPENSABLE
ACCESS CONTROLLED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
R/W BOUNDARY POINT
PARCEL NUMBER
UTILITY NUMBER

CONVENTIONAL ABBREVIATIONS

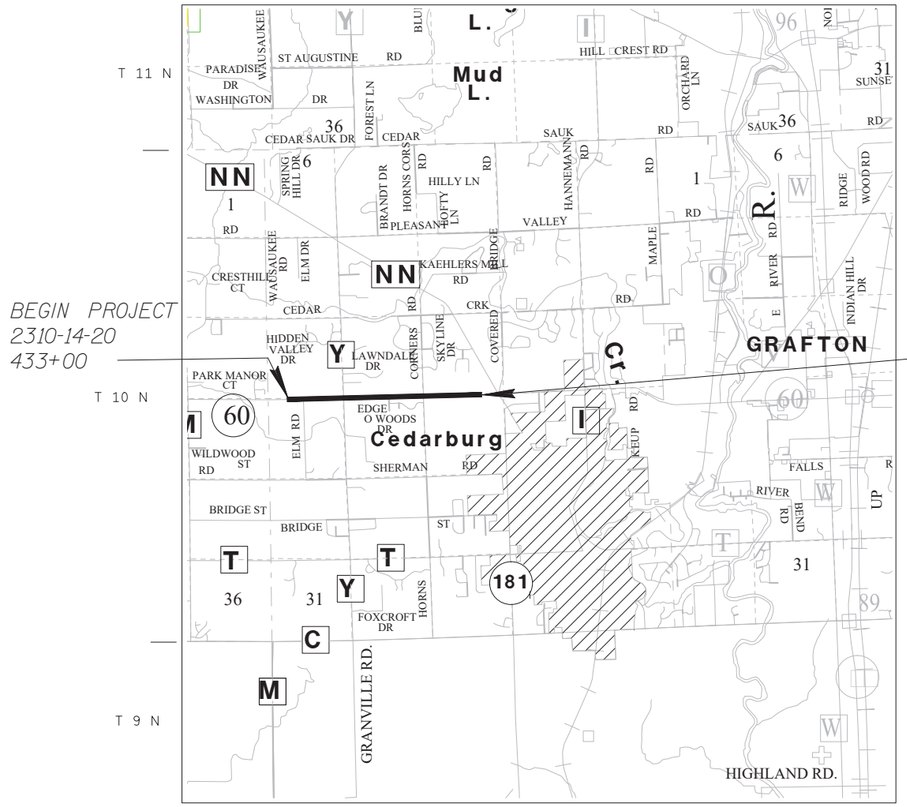
ACCESS RIGHTS	AR	POINT OF CURVATURE	PC
ACRES	AC	POINT OF COMPOUND CURVE	PCC
AHEAD	AH	POINT OF INTERSECTION	PI
ALUMINUM	ALUM	PROPERTY LINE	PL
AND OTHERS	ET AL	RECORDED AS	(100')
BACK	BK	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RIGHT	RT
CERTIFIED SURVEY MAP	CSM	RIGHT OF WAY	R/W
CONCRETE	CONC	PROPOSED RIGHT OF WAY	PRW
COUNTY	CO	SECTION	SEC
COUNTY TRUNK HIGHWAY	CTH	SEPTIC VENT	SEPV
DISTANCE	DIST	SQUARE FEET	SF
CORNER	COR	STATE TRUNK HIGHWAY	STH
DOCUMENT NUMBER	DOC	STATION	STA
EASEMENT	EASE	SUBDIVISION	SUBD
EXISTING	EX	TANGENT	TAN
EXISTING RIGHT OF WAY	ERW	TELEPHONE PEDESTAL	TP
GAS VALVE	GV	TEMPORARY LIMITED EASEMENT	TLE
GRID NORTH	GN	TRANSPORTATION PROJECT PLAT	TPP
HIGHWAY EASEMENT	HE	UNITED STATES HIGHWAY	USH
IDENTIFICATION	ID	VOLUME	V
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		

CURVE DATA

LONG CHORD	LC
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	Δ
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

WATER — W
GAS — G
TELEPHONE — T
OVERHEAD TRANSMISSION LINES — OH
ELECTRIC — E
CABLE TELEVISION — TV
FIBER OPTIC — FO
SANITARY SEWER — SAN
STORM SEWER — SS



THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT

NOTES: POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, OZAUKEE COUNTY, NAD83(2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" x 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN THE SOUTHEAST REGION.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING ACCESS CONTROL ALONG STH 60HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: ENTER EXISTING RW INFO HERE AS ATTRIBUTE.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2310-14-20-4.00
SHEET 2 OF 2
AMENDMENT NO:

1043757

TRANSPORTATION PROJECT PLAT NO: 2310-14-20-4.01

CEDARBURG OZAUKEE COUNTY LIMITS TO FIVE CORNERS

THAT PART OF PARCEL 2 OF CERTIFIED SURVEY MAP 2230, VOL. 16, PG. 290 DOC. 438140 IN AND INCLUDING THAT PART OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 AND THAT PART OF LOT 1 OF CERTIFIED SURVEY MAP 2927, VOL. 21, PG. 26 DOC. 566091 IN AND INCLUDING THAT PART OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 ALL IN SECTION 19, TOWNSHIP 10 NORTH, RANGE 21 EAST, TOWN OF CEDARBURG, OZAUKEE COUNTY, STATE OF WISCONSIN.

RELOCATION ORDER STH 60 OZAUKEE COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION

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

This is a copy.
The original is at the register of deeds office.

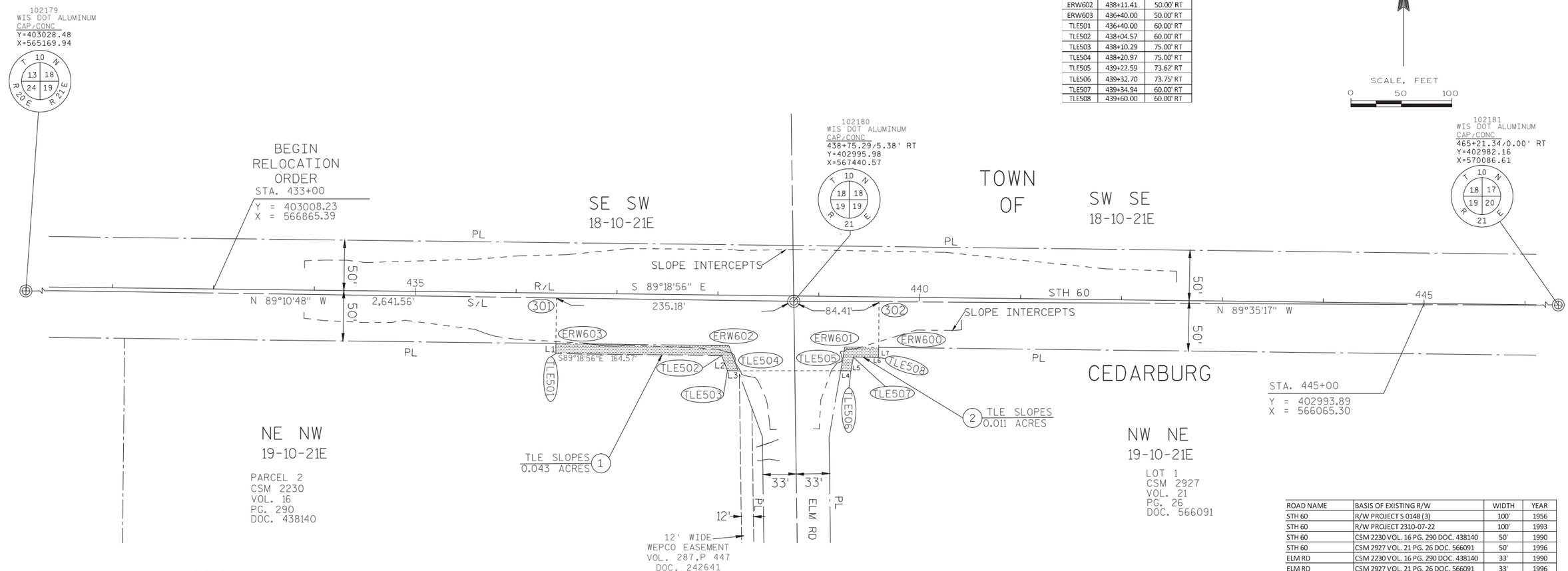
RONALD A. VOIGT
OZAUKEE COUNTY
REGISTER OF DEEDS
PORT WASHINGTON, WI
RECORDED ON
12/19/2016 10:09AM

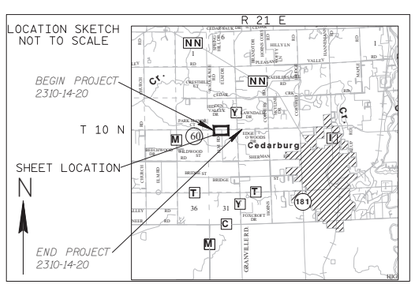
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2310-14-20-4.01
SHEET 1 OF 2

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2.

SCHEDULE OF LAND AND INTEREST REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	R/W REQUIRED ACRES EXISTING	R/W REQUIRED ACRES TOTAL	T.L.E. TEMP ACRES
1	L AND L LTD	TLE	---	---	---	0.043
2	GREGORY W ZIMMERSCHIED	TLE	---	---	---	0.011

STATION OFFSET TABLE		
Point	Station	Offset
ERW600	439+60.00	50.00' RT
ERW601	439+26.45	50.00' RT
ERW602	438+11.41	50.00' RT
ERW603	436+40.00	50.00' RT
TLE501	436+40.00	60.00' RT
TLE502	438+04.57	60.00' RT
TLE503	438+10.29	75.00' RT
TLE504	438+20.97	75.00' RT
TLE505	439+22.59	73.62' RT
TLE506	439+32.70	73.75' RT
TLE507	439+34.94	60.00' RT
TLE508	439+60.00	60.00' RT





L1: N 00°41'04" E / 10.00'
L2: S 20°12'13" E / 16.06'
L3: S 89°18'56" E / 10.68'
L4: S 88°34'12" E / 10.11'
L5: N 09°56'36" E / 13.93'
L6: S 89°18'56" E / 25.06'
L7: N 00°41'04" E / 10.00'

ROAD NAME	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 60	R/W PROJECT S 0148 (3)	100'	1956
STH 60	R/W PROJECT 2310-07-22	100'	1993
STH 60	CSM 2230 VOL. 16 PG. 290 DOC. 438140	50'	1990
STH 60	CSM 2927 VOL. 21 PG. 26 DOC. 566091	50'	1996
ELM RD	CSM 2230 VOL. 16 PG. 290 DOC. 438140	33'	1990
ELM RD	CSM 2927 VOL. 21 PG. 26 DOC. 566091	33'	1996
ELM RD	CSM 1540 VOL. 11 PG. 39 DOC. 350999	33'	1984

NOTES:

POSITION SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, OZAUKEE COUNTY, NAD 83 (2007) U.S. SURVEY FEET, VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND COORDINATES.

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2310-14-20 4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090
12/12/16
DATE

WISCONSIN ANTHONY J. GROMACKI S-2090 JACKSON WIS. LAND SURVEYOR

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

ROBERT DUFFECK
12/12/16
DATE

FILE NAME : F:\PROJECTS\11-60-005 STH 60 PLAT WORK\SURVEY\CAD\OZAUKEE COUNTY\2016.08.16.M2_STH60_OZ_SURVEYBASE.DWG PLOT DATE : 12/13/2016 1:17 PM PLOT BY : ANTHONY GROMACKI PLOT NAME : _____ PLOT SCALE : ==========

1045008

This is a copy.
The original is at the register of deeds office.

TRANSPORTATION PROJECT PLAT NO: 2310-14-20-4.02

CEDARBURG OZAUKEE COUNTY LIMITS TO FIVE CORNERS

THAT PART OF LOT 1 OF CERTIFIED SURVEY MAP 1667, VOL. 12, PG. 206 DOC. 362597 IN AND INCLUDING THAT PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 18 AND PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 19, ALL IN TOWNSHIP 10 NORTH, RANGE 21 EAST, TOWN OF CEDARBURG, OZAUKEE COUNTY, STATE OF WISCONSIN.

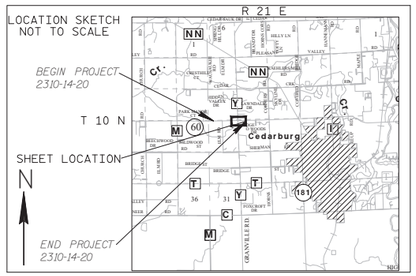
RELOCATION ORDER STH 60 OZAUKEE COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION

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

SCHEDULE OF LAND AND INTEREST REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	R/W REQUIRED ACRES EXISTING	R/W REQUIRED ACRES TOTAL	T.L.E. TEMP ACRES
3	JANET TRAXEL 1998 REVOCABLE TRUST/ BETTY ANN BUBLITZ	FEE, TLE	0.587	---	0.587	0.007
4	LYN C PIERCE AND CINDY S PIERCE	FEE, TLE	0.418	---	0.418	0.002



UTILITY INTEREST REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
30	WE ENERGIES ELECTRIC	RELEASE OF RIGHTS
31	AT & T WISCONSIN	RELEASE OF RIGHTS

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
AT&T WISCONSIN	NO RECORDED EASEMENT	3
WE ENERGIES ELECTRIC	10' WIDE EASEMENT VOL. 311, P 580 DOC. 252309	4

STATION OFFSET TABLE		
Point	Station	Offset
ERW610	457+75.00	50.00' RT
PRW411	457+75.00	70.00' RT
PRW412	464+10.00	70.00' RT
ERW613	464+75.43	245.80' RT
ERW617	458+00.00	50.00' LT
PRW418	458+00	70.00' LT
PRW419	462+75.00	70.01' LT
PRW420	464+44.65	116.47' LT
PRW421	464+39.85	448.87' LT
ERW622	464+64.85	449.23' LT
TLE524	462+55.00	75.00' RT
TLE525	462+55.00	70.00' RT
TLE526	462+75.00	75.00' RT
TLE527	462+75.00	70.00' RT

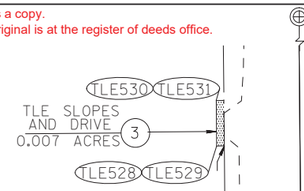
COURSE TABLE		
COURSE	BEARING	DISTANCE
102181-314	S00° 39' 28"E	245.00'
314-ERW613	S89° 20' 32"W	50.00'
PRW411-ERW610	N00° 17' 47"E	20.00'
ERW610-315	N00° 17' 57"E	50.03'
315-316	S89° 42' 03"E	25.00'
316-ERW617	N00° 17' 48"E	49.97'
ERW617-PRW418	N00° 17' 48"E	20.00'
PRW421-ERW622	N89° 28' 09"E	25.00'
ERW622-323	N89° 28' 09"E	50.00'
323-102181	S00° 31' 51"E	450.00'

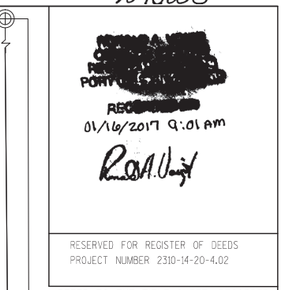
GN

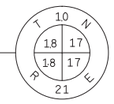
SCALE, FEET
0 50 100

TOWN OF CEDARBURG

LOT 2
CSM 1667
VOL. 12
PG. 206
DOC. 362597



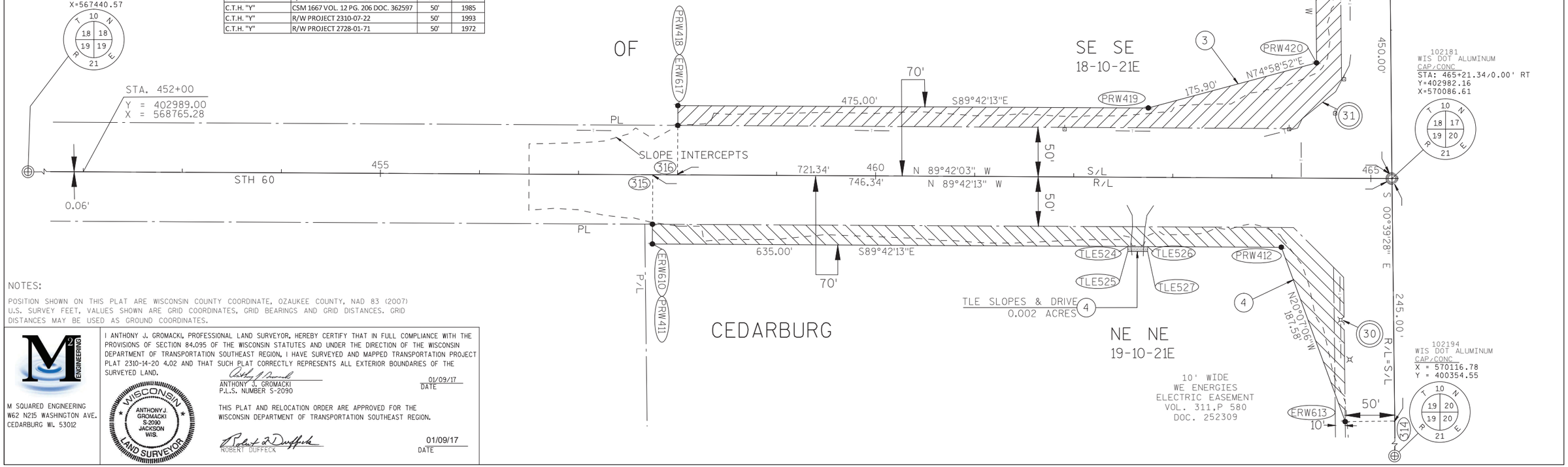




WIS DOT ALUMINUM CAP/CONC
X = 570062.21
Y = 405615.17
102168

102180
WIS DOT ALUMINUM CAP/CONC
R/L=438+75.29/5.38' RT
Y=402995.98
X=567440.57

ROAD NAME	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 60	R/W PROJECT S 0148 (3)	100'	1956
STH 60	R/W PROJECT 2310-07-22	100'	1993
C.T.H. "Y"	CSM 1667 VOL. 12 PG. 206 DOC. 362597	50'	1985
C.T.H. "Y"	R/W PROJECT 2310-07-22	50'	1993
C.T.H. "Y"	R/W PROJECT 2728-01-71	50'	1972



NOTES:

POSITION SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATE, OZAUKEE COUNTY, NAD 83 (2007) U.S. SURVEY FEET, VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND COORDINATES.

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2310-14-20 4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090

01/09/17
DATE

WISCONSIN ANTHONY J. GROMACKI S-2090 JACKSON WIS. LAND SURVEYOR

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

ROBERT DUFFECK

01/09/17
DATE

FILE NAME : F:\PROJECTS\11-60-005 STH 60 PLAT WORK\SURVEY\CAD\OZAUKEE COUNTY\2016.08.16.M2_STH60_OZ_SURVEYBASE.DWG PLOT DATE : 1/10/2017 1:15 PM PLOT BY : ANTHONY GROMACKI PLOT NAME : _____ PLOT SCALE : **********

1045009

TRANSPORTATION PROJECT PLAT NO: 2310-14-20-4.03
CEDARBURG OZAUKEE COUNTY LIMITS TO FIVE CORNERS

PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 20 AND SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 17, ALL IN TOWNSHIP 10 NORTH, RANGE 21 EAST, TOWN OF CEDARBURG, OZAUKEE COUNTY, STATE OF WISCONSIN.

RONALD A. VOIGT
OZAUKEE COUNTY
REGISTER OF DEEDS
PORT WASHINGTON, WI
RECORDED ON
01/16/2017 9:01 AM

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2310-14-20-4.03

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2. OF DOCUMENT NO. 1043757 FOR ADDITIONAL INFORMATION.

This is a copy.
The original is at the register of deeds office.

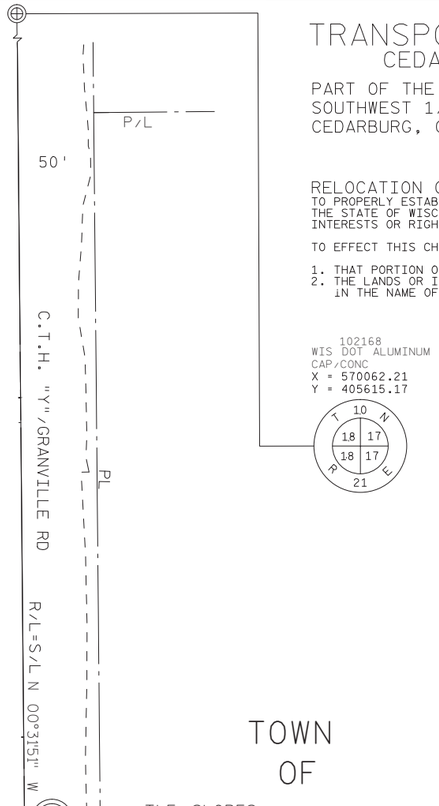
RELOCATION ORDER STH 60 OZAUKEE COUNTY

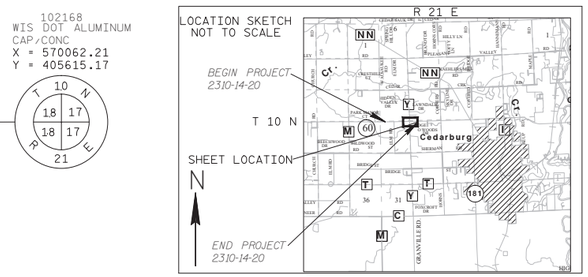
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN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

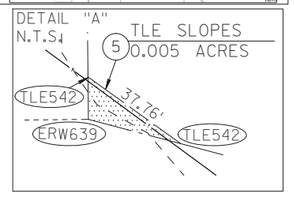
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION

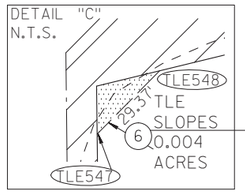
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE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

SCHEDULE OF LAND AND INTEREST REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT			
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	R/W REQUIRED ACRES EXISTING	R/W REQUIRED ACRES TOTAL	T.L.E. TEMP ACRES
5	CHRISTINE LAGAN	TLE	---	---	---	0.008
6	ROBERT J GIERACH AND AMY B GIERACH	FEE, TLE	0.259	---	0.259	0.061







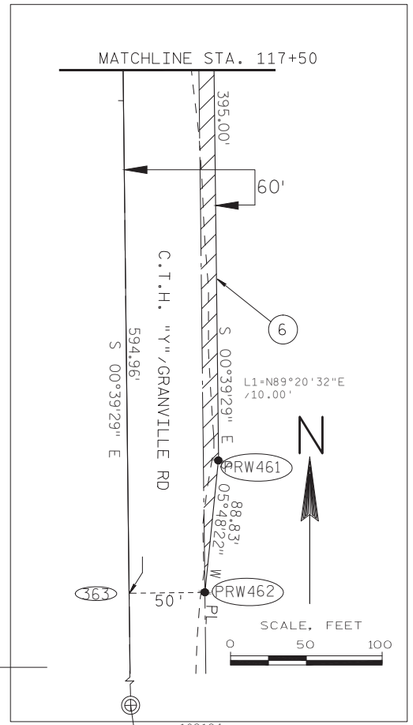


UTILITY INTEREST REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
31	AT AND T	RELEASE OF RIGHTS

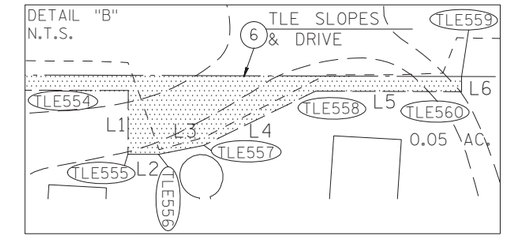
EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
AT&T WISCONSIN	NO RECORDED EASEMENT	5

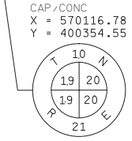
STATION OFFSET TABLE					
Point	Station	Offset	Point	Station	Offset
ERW633	468+30.00	50.00' RT	TLE550	467+75.00	68.70' RT
PRW434	465+83.00	110.83' RT	TLE551	468+50.91	50.00' RT
ERW639	465+69.43	150.63' LT	TLE552	469+20.00	50.00' RT
TLE541	465+69.25	164.61' LT	TLE553	469+20.00	55.00' RT
TLE542	466+00.00	142.69' LT	TLE554	470+75.00	55.00' LT
TLE543	470+60.00	50.00' LT	TLE555	470+75.00	76.00' RT
TLE544	470+60.00	55.00' LT	TLE556	470+85.04	76.00' RT
TLE545	470+84.70	50.00' LT	TLE557	471+00.00	73.00' RT
TLE546	470+84.70	55.00' LT	TLE558	471+36.78	55.00' RT
TLE547	465+83.23	126.65' RT	TLE559	471+85.00	55.00' RT
TLE548	466+03.82	105.70' RT	TLE560	471+85.00	50.00' RT
TLE549	467+75.00	63.55' RT	ERW1630	469+57.14	50.00' LT



COURSE TABLE		
COURSE	BEARING	DISTANCE
338-ERW639	N89° 28' 09"E	50.00'
ERW1630-340	S00° 02'43"W	48.85'
340-332	N89° 57' 17"W	127.41'
332-ERW633	S00° 02'43"W	50.81'
PRW462-363	S89° 20' 32"W	50.00'

L1: S 00°11'47" W / 21.00'
L2: S 89°48'13" E / 10.04'
L3: N 78°51'35" E / 15.25'
L4: N 67°07'02" E / 41.13'
L5: S 89°48'13" E / 48.22'
L6: N 00°11'47" E / 5.00'





ROAD NAME	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 60	R/W PROJECT S 0148 (3)	100'	1956
STH 60	R/W PROJECT 2310-07-22	100'	1993
C.T.H. "Y"	R/W PROJECT 2728-01-71	50'	1972
C.T.H. "Y"	R/W PROJECT 2310-07-22	100'	1993
C.T.H. "Y"	VOL. 473 PG. 685 DOC. 331641	50'	1982

STA. 475+00
Y = 402978.59
X = 571065.25
END RELOCATION ORDER

NOTES:

POSITION SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATE, OZAUKEE COUNTY, NAD 83 (2007) U.S. SURVEY FEET, VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND COORDINATES.

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2310-14-20 4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090
01/09/17
DATE

WISCONSIN ANTHONY J. GROMACKI S-2090 JACKSON WIS. LAND SURVEYOR

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

ROBERT DUFFECK
01/09/17
DATE

FILE NAME : F:\PROJECTS\11-60-005 STH 60 PLAT WORK\SURVEY\CAD\OZAUKEE COUNTY\2016.08.16.M2_STH60_OZ_SURVEYBASE.DWG PLOT DATE : 1/10/2017 1:17 PM PLOT BY : ANTHONY GROMACKI PLOT NAME : _____ PLOT SCALE : ==========

2310-14-00 2310-14-20 4.03

X CLEARING & GRUBBING, INCH DIAMETER

CLEARING & GRUBBING, STATION

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
500	209NB+57.40, 80.90' RT	39" FENO MON. WITH ALUM. CAP	886.57
502	97+98.51, 50.42' LT	39" FENO MON. WITH ALUM. CAP	884.57

BM 502

BEGIN PROJECT
STA. 100+00.00

STH 60

GOLLNICK

TRAXEL
1998 REV. TRUST
BUBLITZ

PIERCE

LAGAN

GIERACH

BM 500

REMOVE EXISTING 30" CPCM
30" CPRC REQ'D

REMOVE EXISTING 18" CPCM
18" CPRC REQ'D

PROP R/W

EXIST R/W

TLE

WETLAND BOUNDARY

SLOPE INTERCEPT

CTH Y/GRANVILLE RD

CAUTION

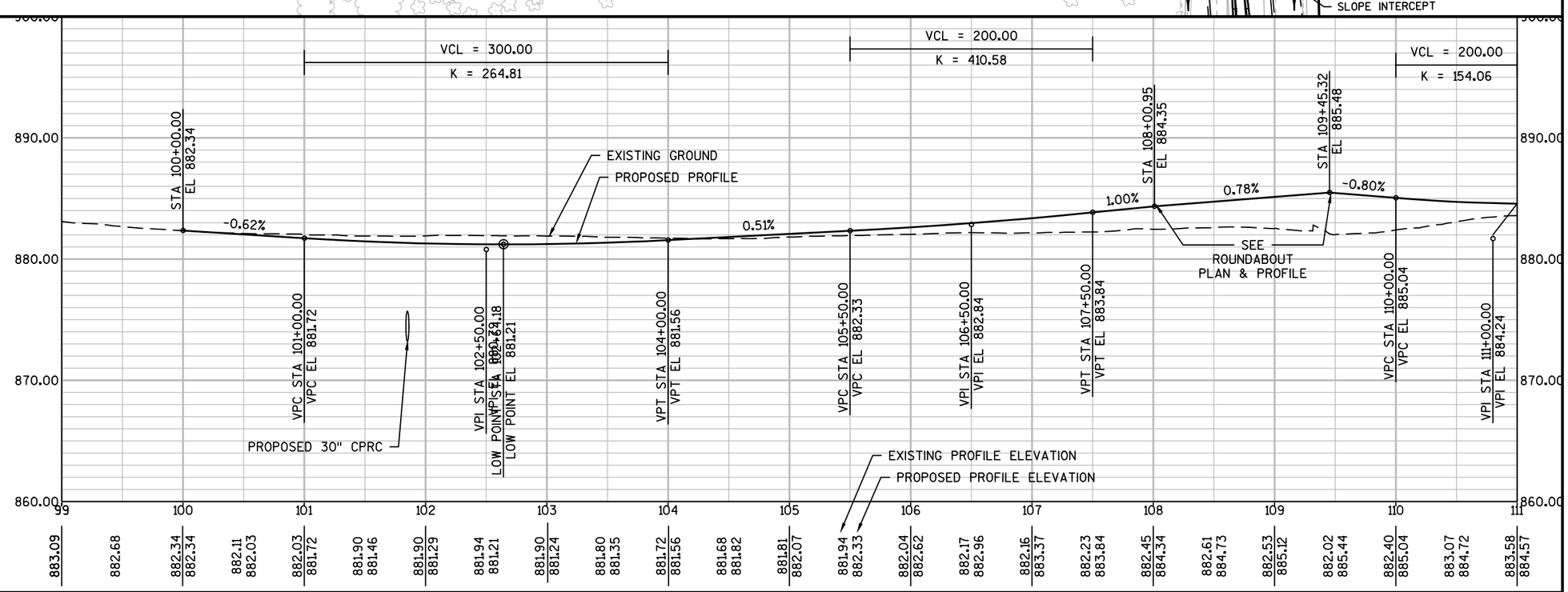
99WB 100WB 101WB 101EB 102WB 102EB 103WB 103EB 104WB 104EB 105WB 105EB 106WB 106EB 107WB 107EB 108WB 108EB 109WB 109EB 110WB 110EB 111WB 111EB

210SB 210NB 209NB 206NE 207SB 207NB 206SB 206NB 302SW 402SE

N

5

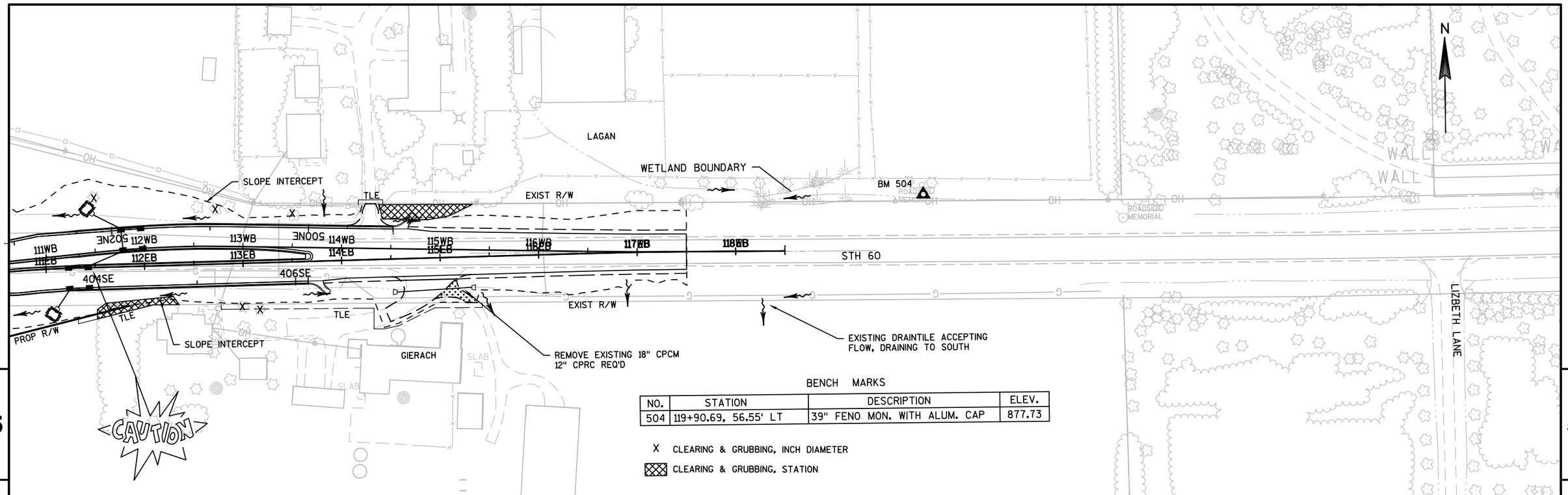
5



PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PLAN AND PROFILE: EB STH 60	SHEET 102 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\SHEETSPLAN\050101_PP_EB STH 60.DWG PLOT DATE : 4/25/2018 1:29 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 44

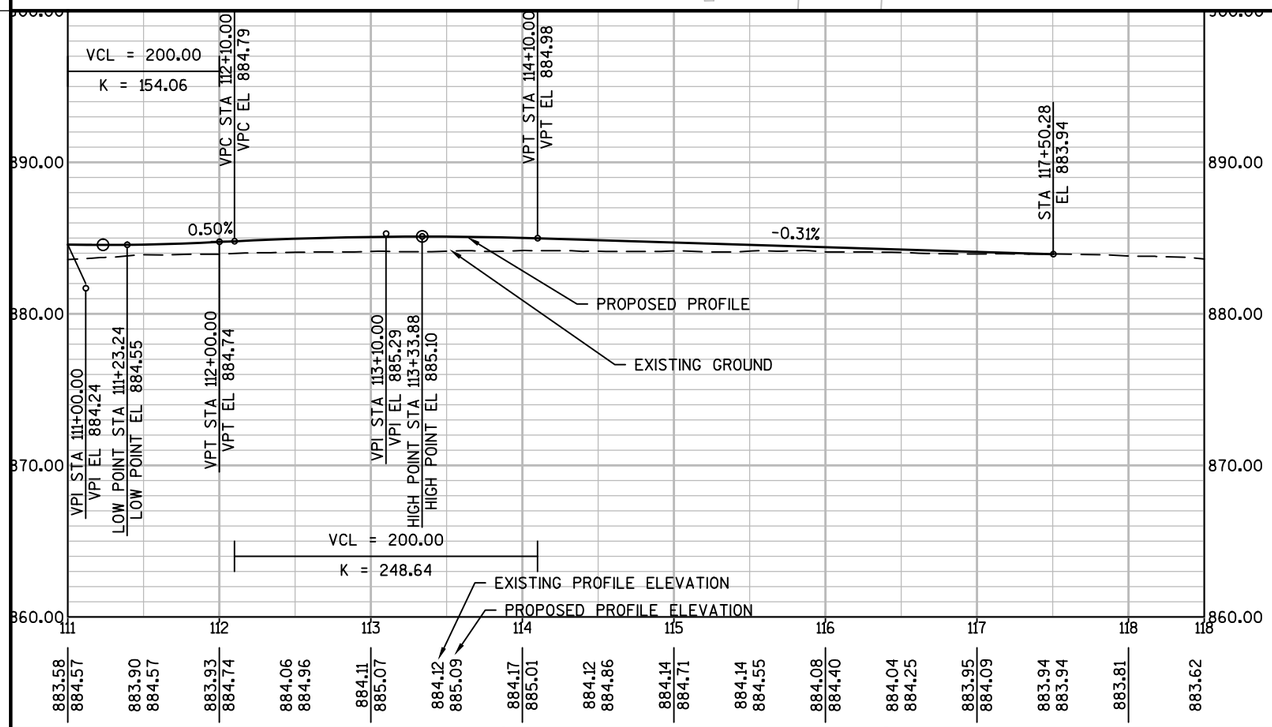


BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
504	119+90.69, 56.55' LT	39" FENO MON. WITH ALUM. CAP	877.73

X CLEARING & GRUBBING, INCH DIAMETER

CLEARING & GRUBBING, STATION



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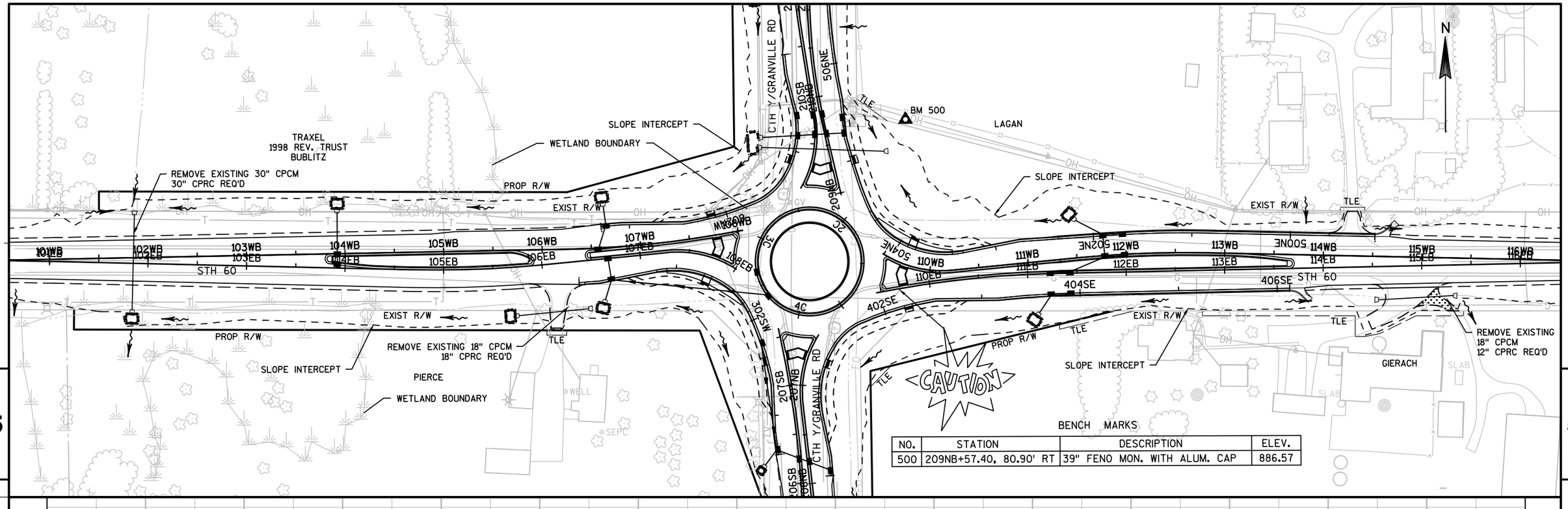
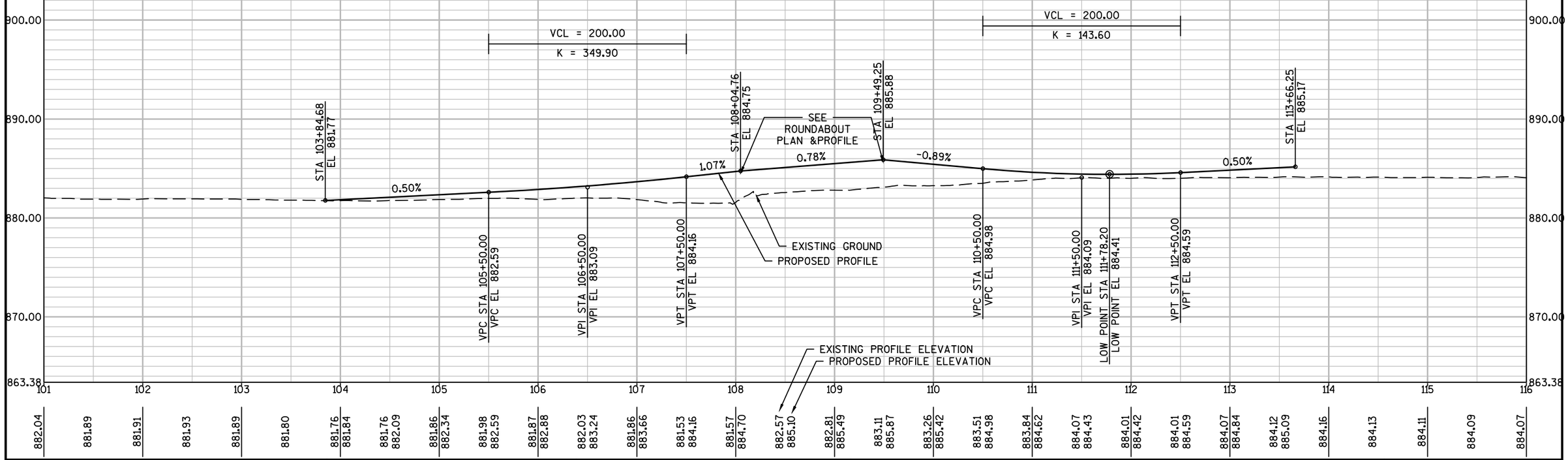
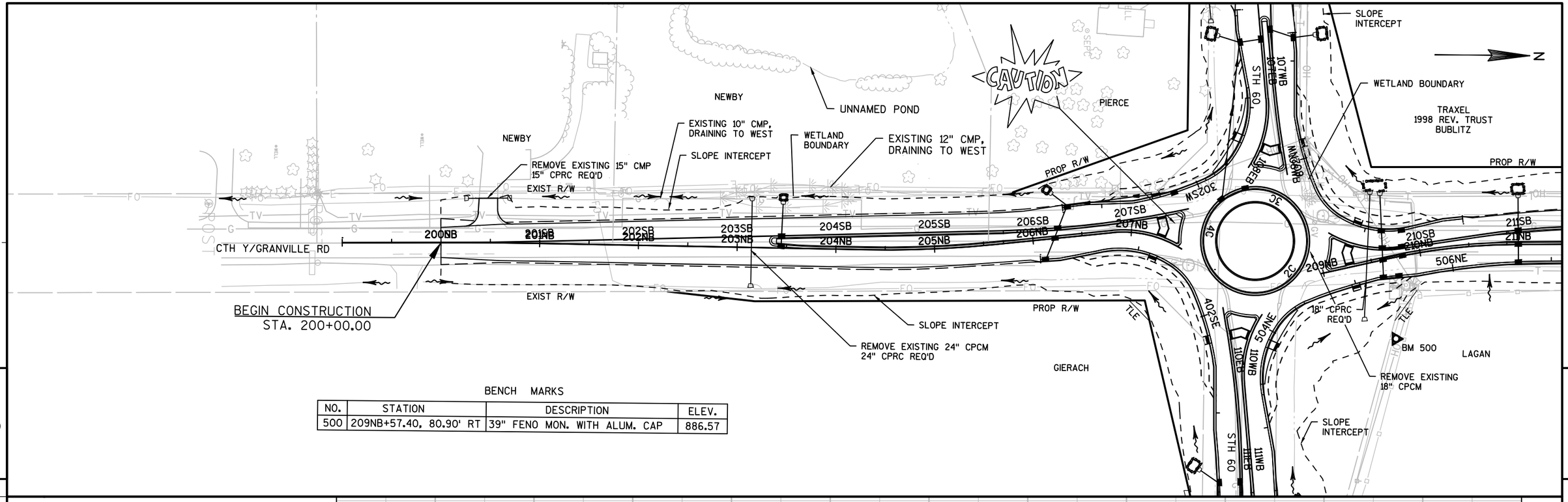


BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
500	209NB+57.40, 80.90' RT	39" FENO MON. WITH ALUM. CAP	886.57

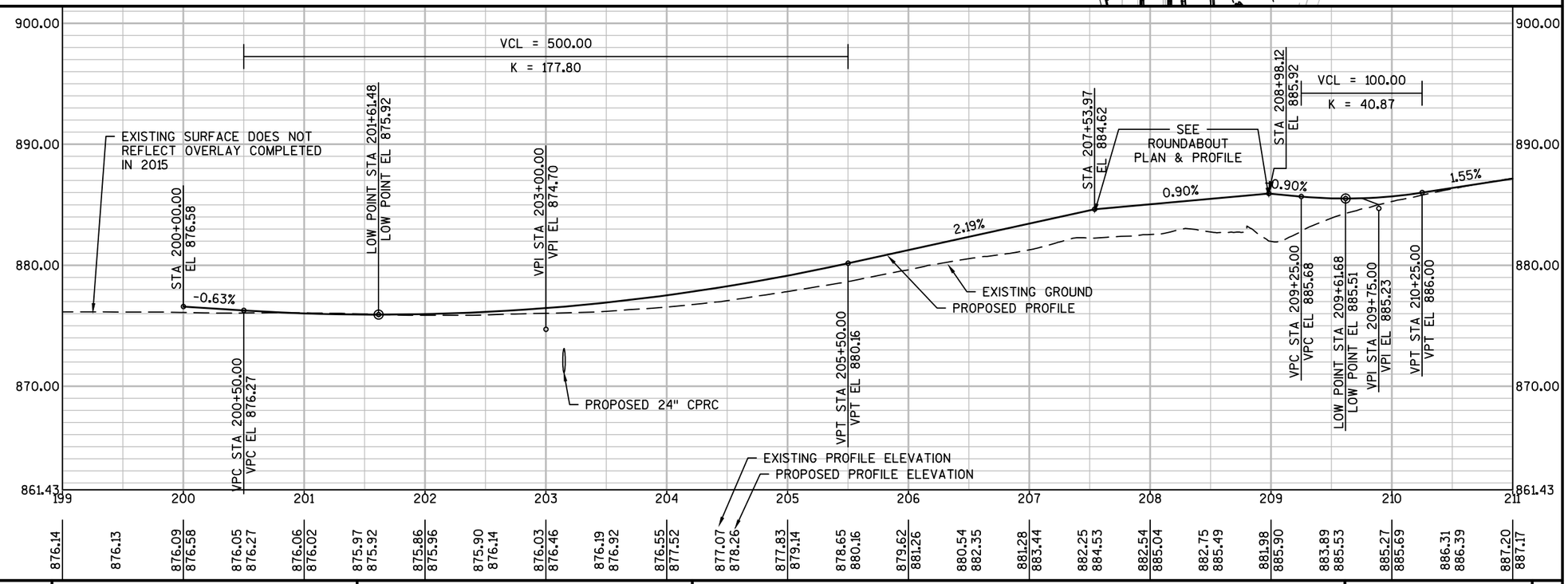


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PLAN AND PROFILE: WB STH 60	SHEET 104	E



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
500	209NB+57.40, 80.90' RT	39" FENO MON. WITH ALUM. CAP	886.57



PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PLAN AND PROFILE: NB CTH Y	SHEET 105 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\SHEETSPLAN\050104_PP_NB CTH Y.DWG PLOT DATE : 4/25/2018 1:31 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 44

T

AND BOUNDARY

TRAXEL
1998 REV. TRUST
BUBLITZ

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
500	209NB+57.40, 80.90' RT	39" FENO MON. WITH ALUM. CAP	886.57
501	212NB+30.08, 43.63' LT	39" FENO MON. WITH ALUM. CAP	888.78

CAUTION

SLOPE INTERCEPT

PROP R/W

EXIST R/W

BM 501

TLE

REMOVE EXISTING 24" CPRC
24" CPRC REQ'D

211SB 212SB 213SB 214SB 215SB 216SB 217SB

210SB 211NB 212NB 213NB 214NB 215NB

506NE 508NE

EXIST R/W

SLOPE INTERCEPT

TORBECK,
FOX

BM 500

LAGAN

OVE EXISTING
CPCM

REMOVE EXISTING 18" CPCM
18" CPRC REQ'D

CTH Y/GRANVILLE RD

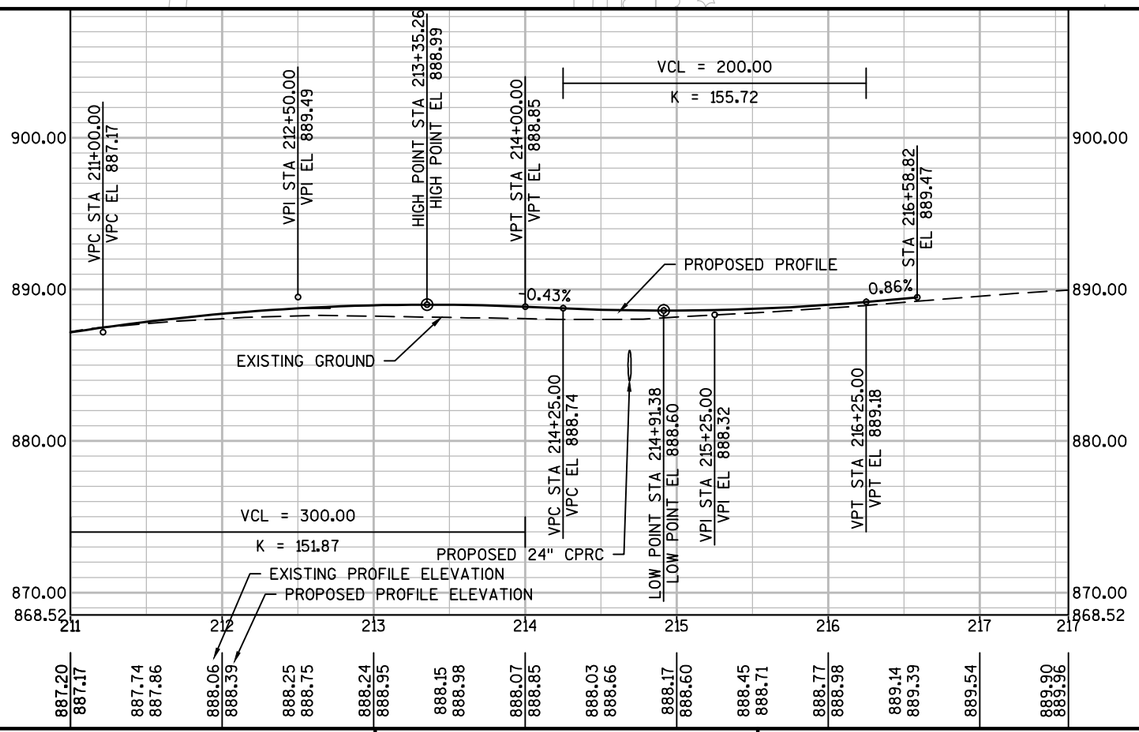
HIGHLAWN CT

END CONSTRUCTION
STA. 216+58.62

N

5

5



PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PLAN AND PROFILE: NB CTH Y	SHEET 106	E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
500	209NB+57.40, 80.90' RT	39" FENO MON. WITH ALUM. CAP	886.57
501	212NB+30.08, 43.63' LT	39" FENO MON. WITH ALUM. CAP	888.78

TED NEWBY,
THELMA NEWBY

EXISTING 10" CMP,
DRAINING TO WEST

SLOPE INTERCEPT

WETLAND
BOUNDARY

EXISTING 12" CMP,
DRAINING TO WEST

CAUTION

PIERCE

STH 60

WETLAND
BOUNDARY

TRAXEL
1998 REV. TRUST
BUBLITZ

18" CPRC REQ'D

SLOPE INTERCEPT

PROP R/W

EXIST R/W

BM 501

CAUTION

TLE

N

201SB 201NB 202SB 202NB 203SB 203NB 204SB 204NB 205SB 205NB 206SB 206NB 207SB 207NB 210SB 210NB 211SB 211NB 212SB 212NB 213SB 213NB 214SB 214NB 215SB 215NB 216SB 216NB

CTH Y/GRANVILLE RD

302SW 3C 4C 2C 209NB 506NE 508NE

EXIST R/W

PROP R/W

TLE

402SE 504NE

SLOPE INTERCEPT

REMOVE EXISTING 24" CPCM
24" CPRC REQ'D

GIERACH

CHRISTINE LAGAN

EXIST R/W

SLOPE INTERCEPT

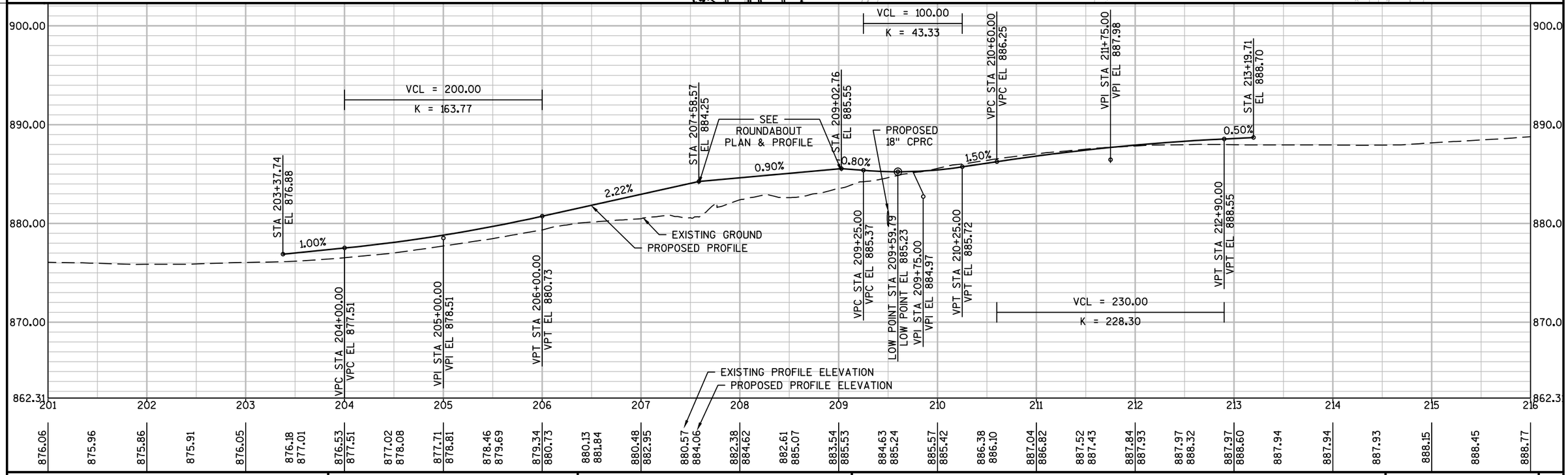
BM 500

REMOVE EXISTING
18" CPCM

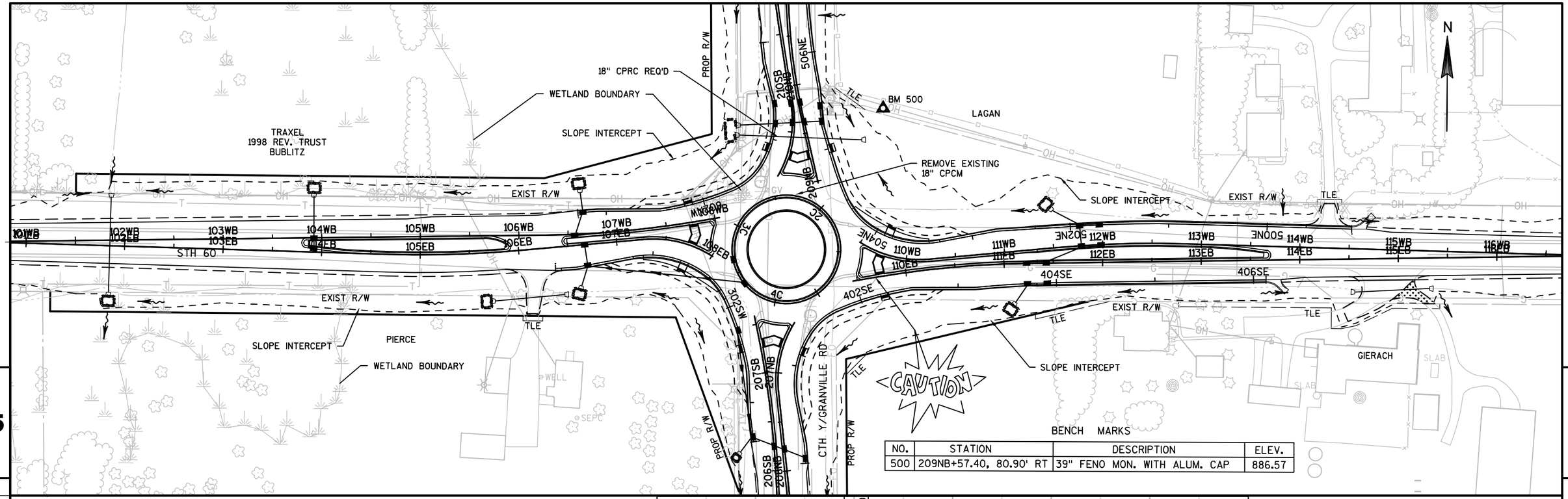
TORBECK,
FOX

5

5

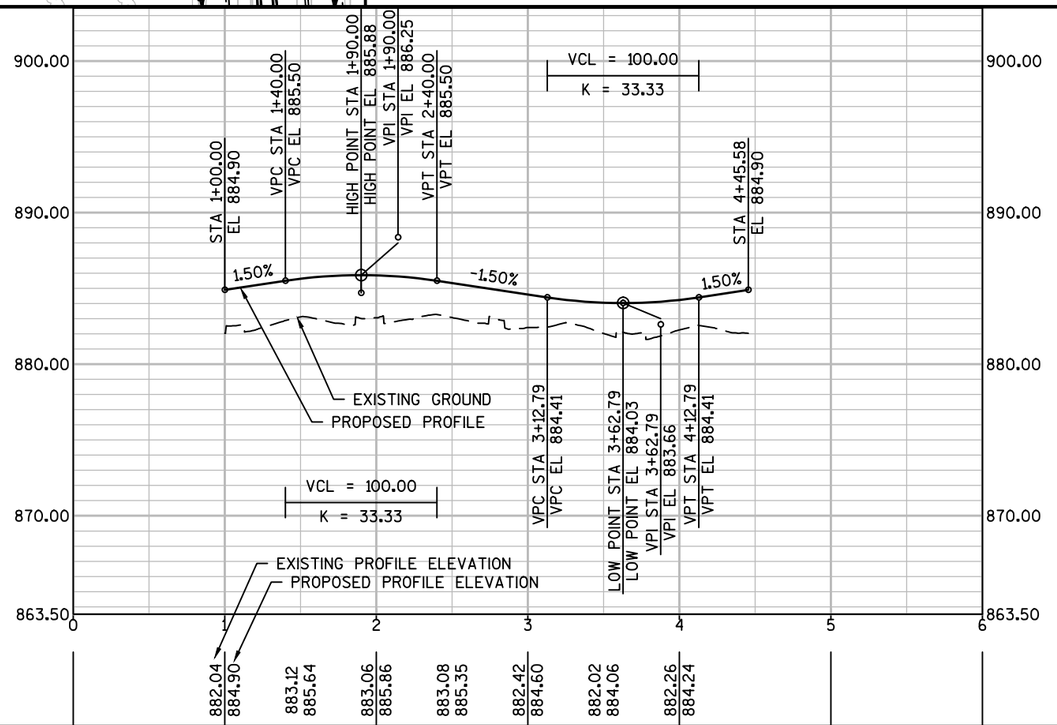


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PLAN AND PROFILE: SB CTH Y	SHEET 107	E



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
500	209NB+57.40, 80.90' RT	39" FENO MON. WITH ALUM. CAP	886.57

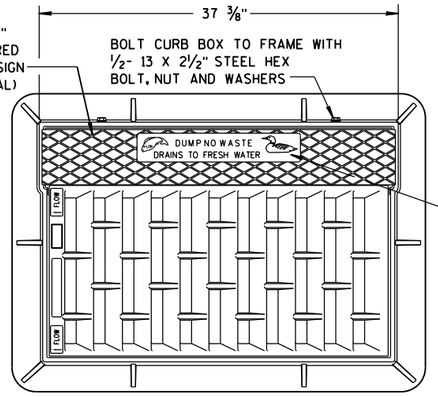


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PLAN AND PROFILE: CIRCLE	SHEET 108	E

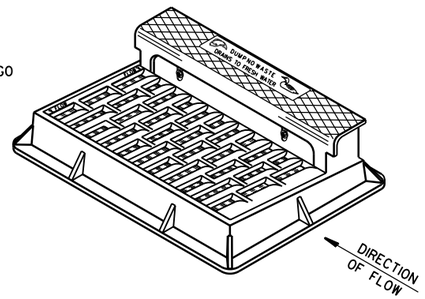
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
09B02-10	CONDUIT
09B04-11	PULL BOX
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D04-03	LIGHTING CONTROL CABINET 120/240 VOLT
09E01-15D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
11B02-02	CONCRETE MEDIAN NOSE
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
13C18-07E	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
13C18-07F	CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER
13C18-07G	CONCRETE PAVEMENT JOINTING ACCELERATION/DECELERATION LANE
13C19-01	HMA LONGITUDINAL JOINTS
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C18-04	MEDIAN ISLAND MARKING
15C27-03B	PAVEMENT MARKING (ISLANDS)
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

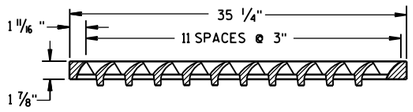
6

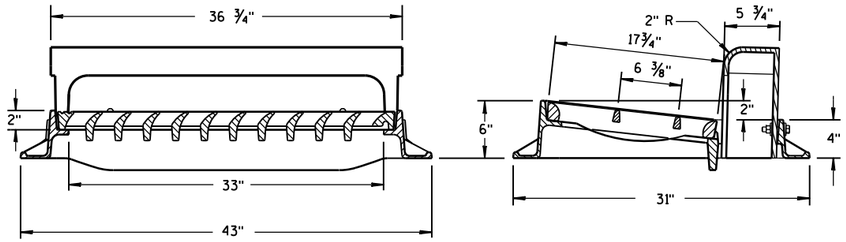


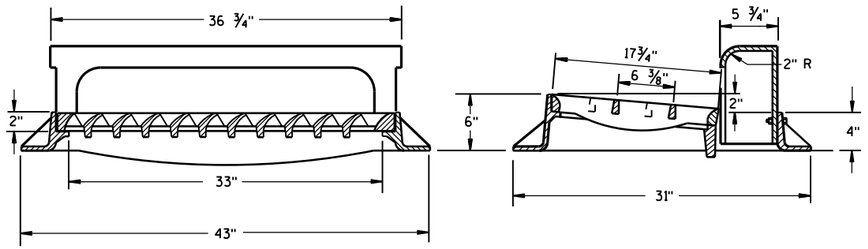
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

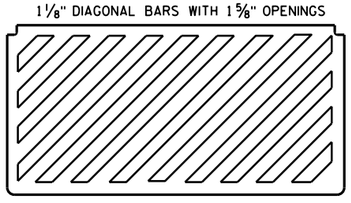






TYPE "H"

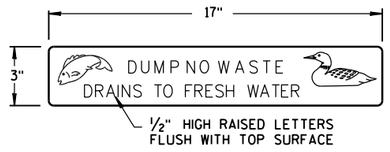
NOTE: EITHER CASTING IS ACCEPTABLE



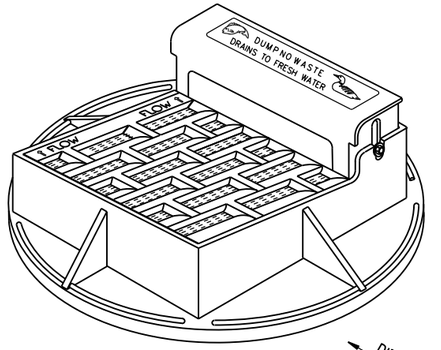
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

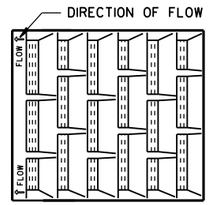
NOTE:
GRATE IS REVERSIBLE.

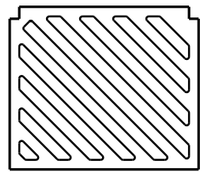
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

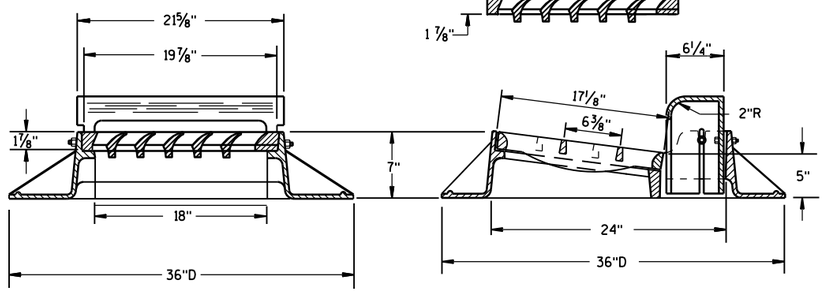




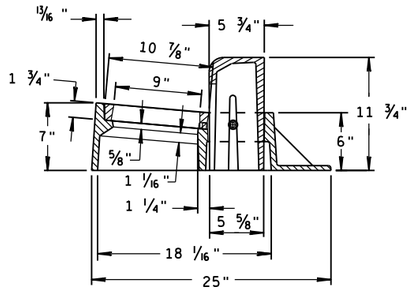
SPECIAL GRATE FOR TYPE "A" COVER

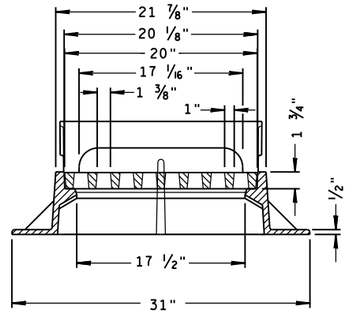
(MEASURES 19 3/4" X 17" X 1 7/8")

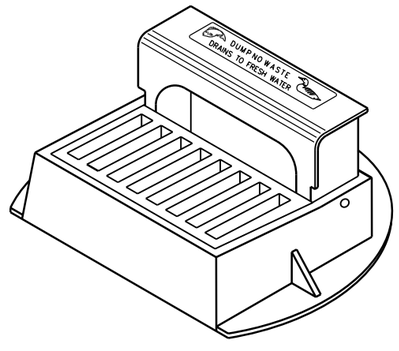
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

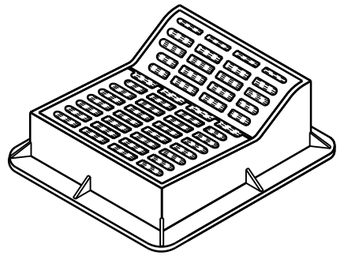
INLET COVERS
TYPE A, H, A-S, H-S & Z

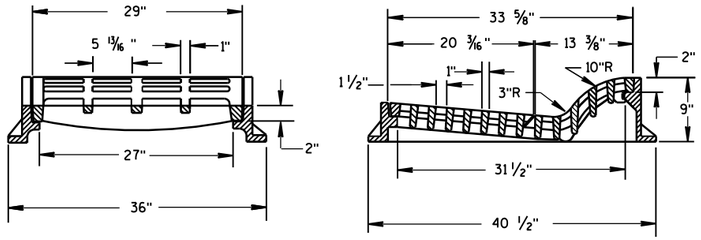
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

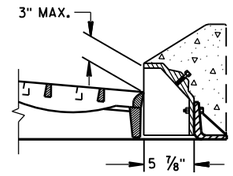
S.D.D. 8 A 5-19a





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

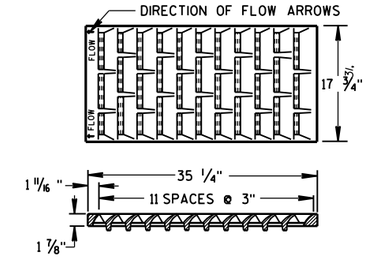
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

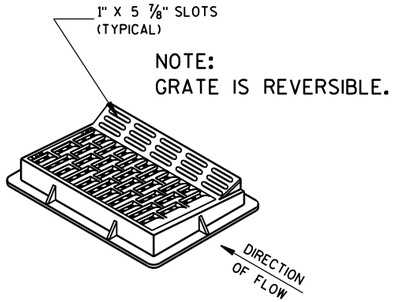
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

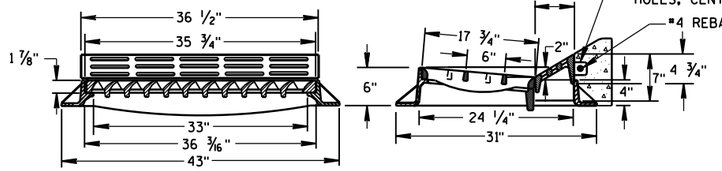
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



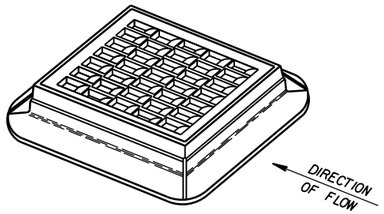


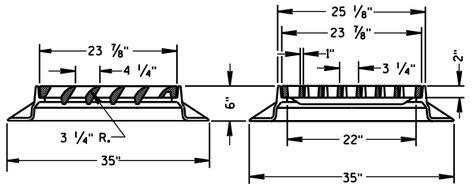


TYPE "HM"

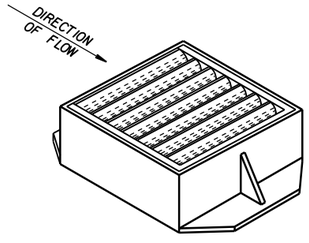
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

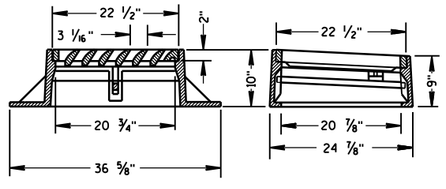
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



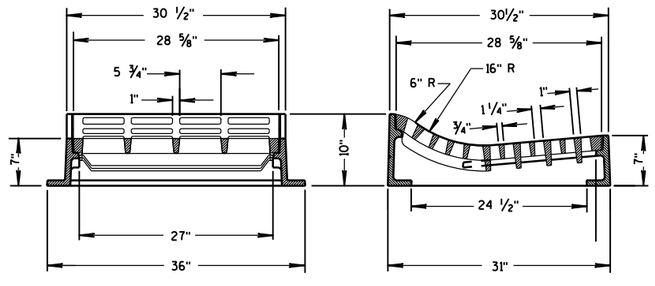


TYPE "S"



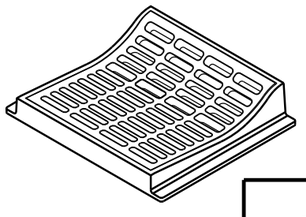


TYPE "V"



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

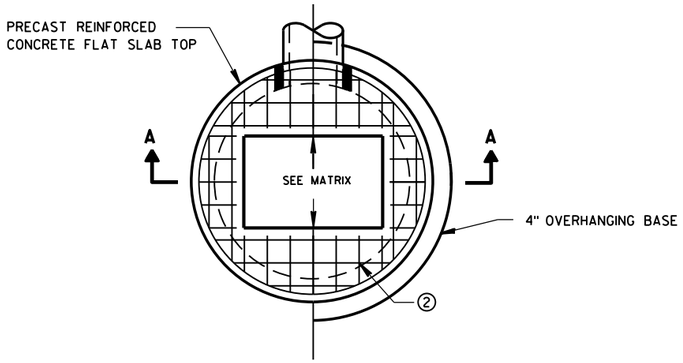
APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

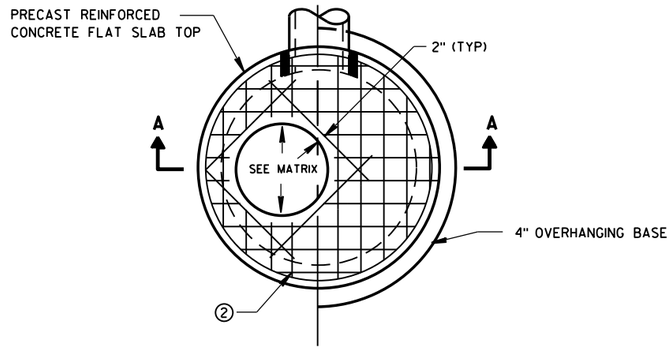
FHWA

6

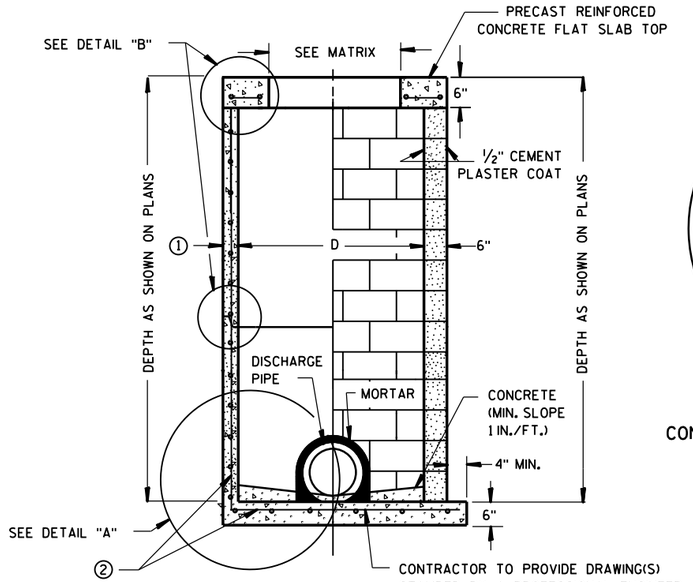
S.D.D. 8 A 5-19c



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

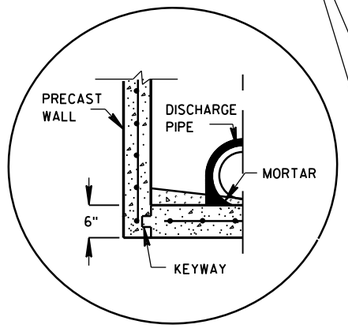


SECTION A-A

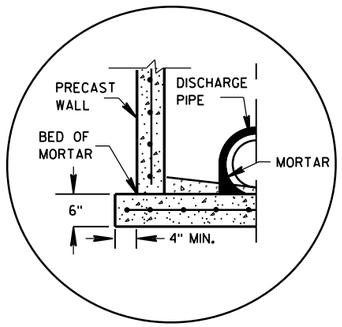
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

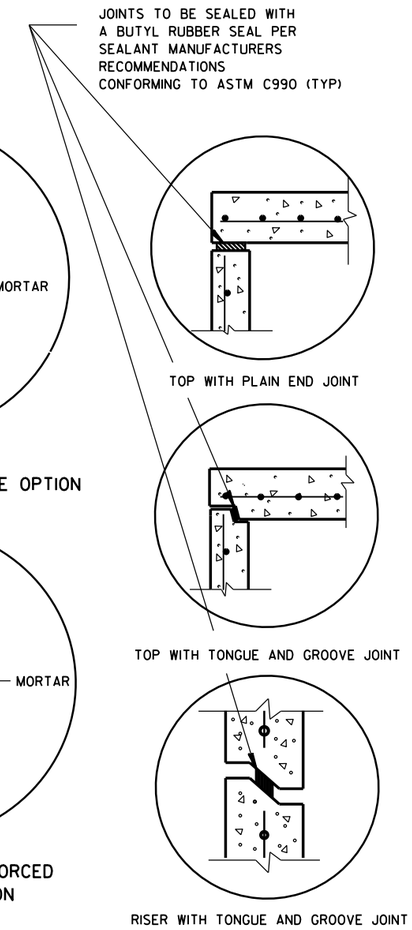


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

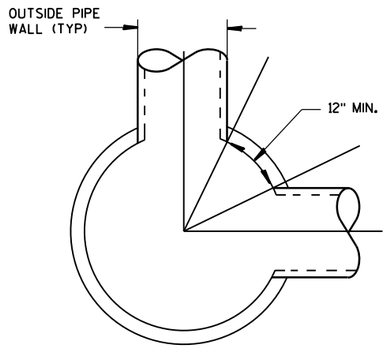
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
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DATE — ROADWAY STANDARDS | UNIT SUPERVI ENT
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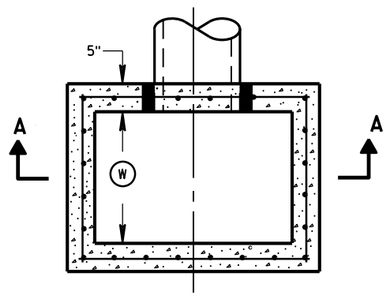
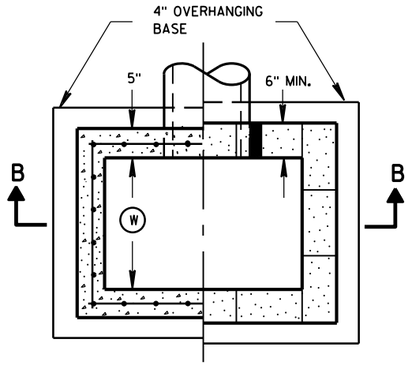
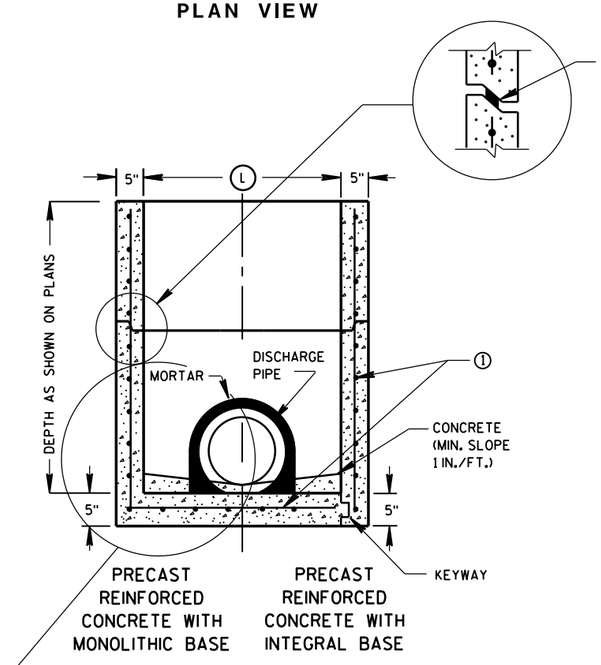


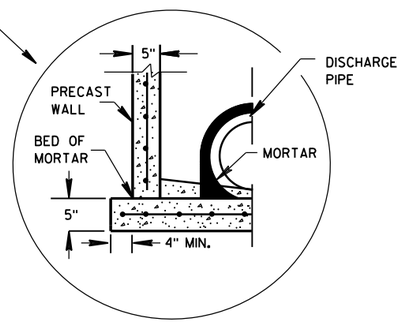
PLAN VIEW



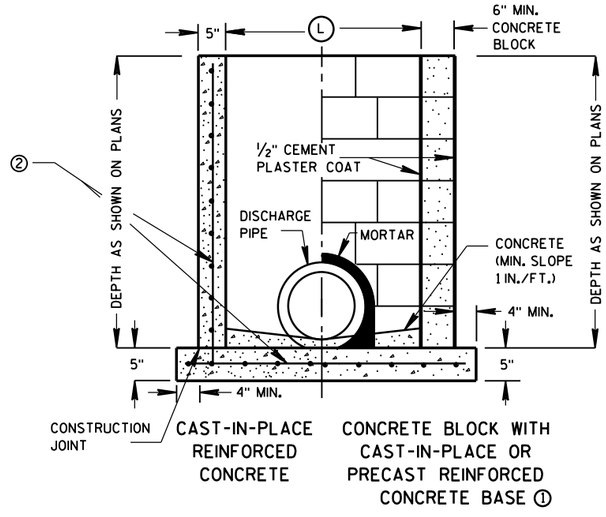
PLAN VIEW



SECTION A-A



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION



SECTION B-B

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

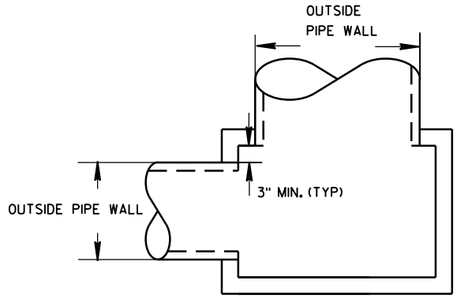
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

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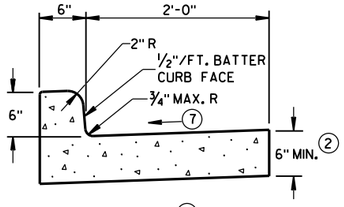
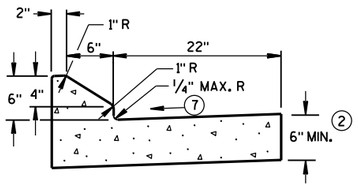
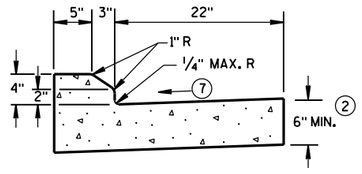


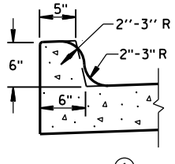
TYPES A (1) & D



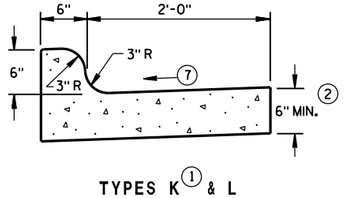
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

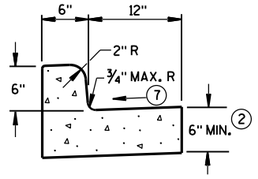


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



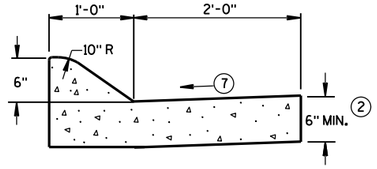
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

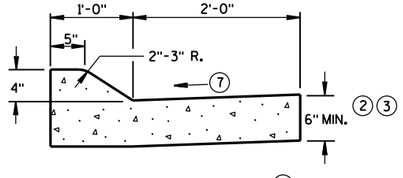


TYPES A (1) & D

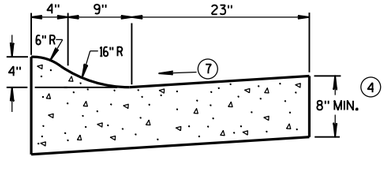
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

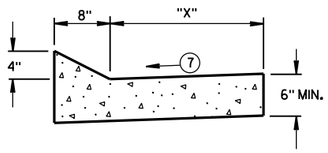


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

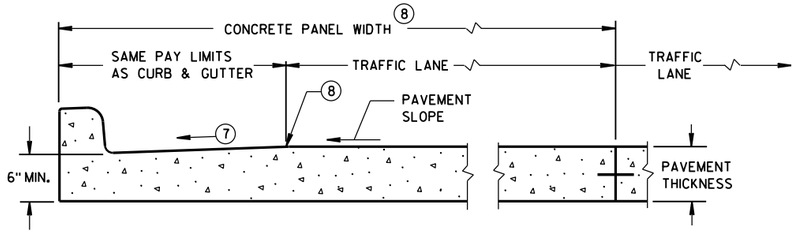
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

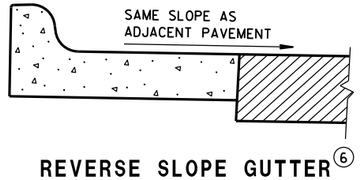
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB & GUTTER

* BIKE LANE IS NOT SHOWN.



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

CONCRETE CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

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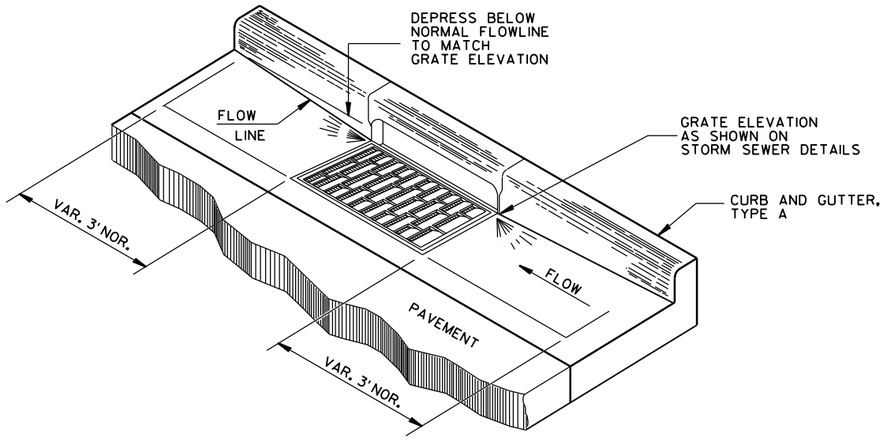


DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

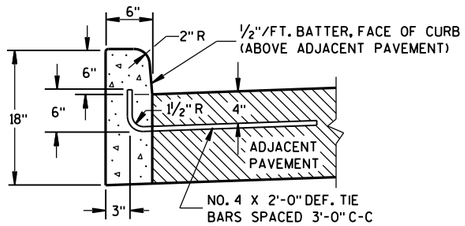
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

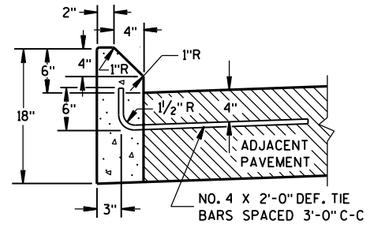
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

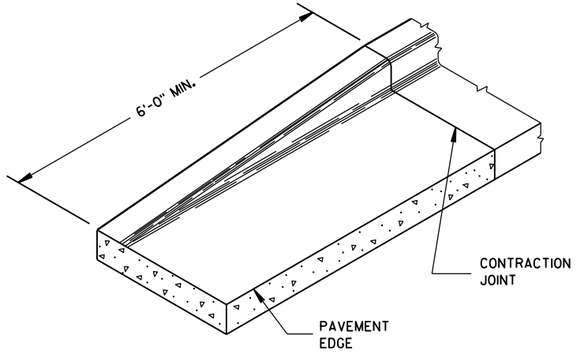


TYPES A(1) & D

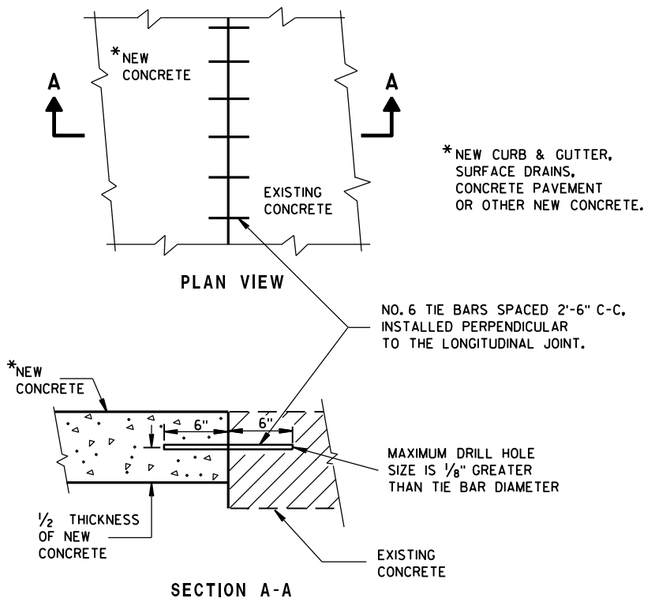


TYPES G(1) & J

CONCRETE CURB



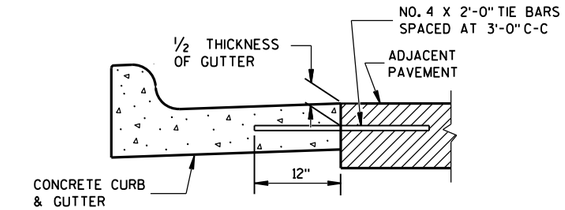
END SECTION CURB & GUTTER



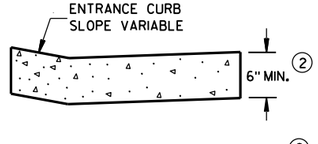
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

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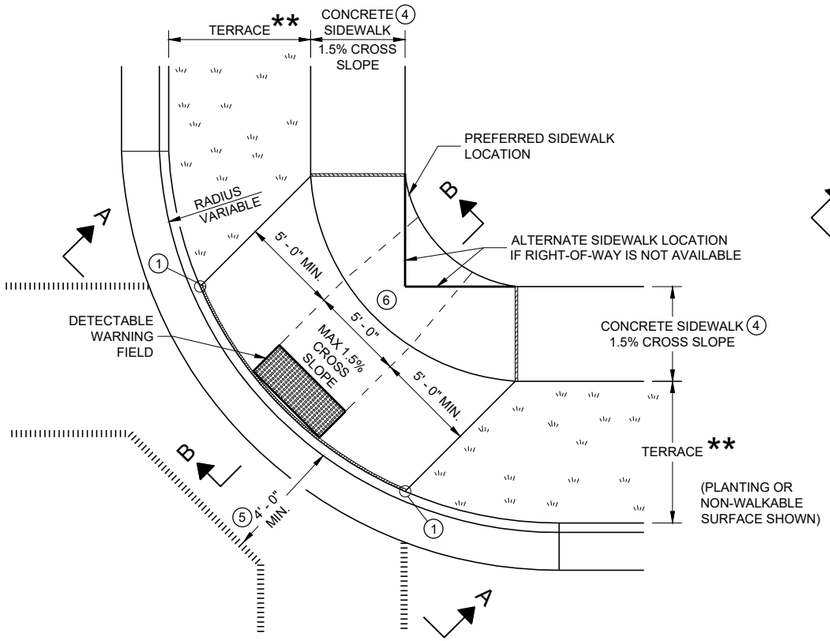
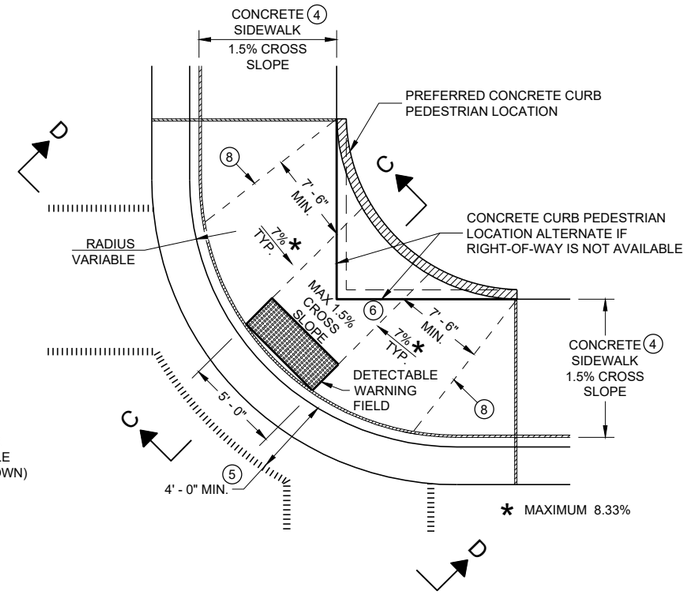
S.D.D. 8 D 1-20b



PLAN VIEW

CURB RAMP TYPE 1

(CENTER OF CORNER RADIUS)



PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

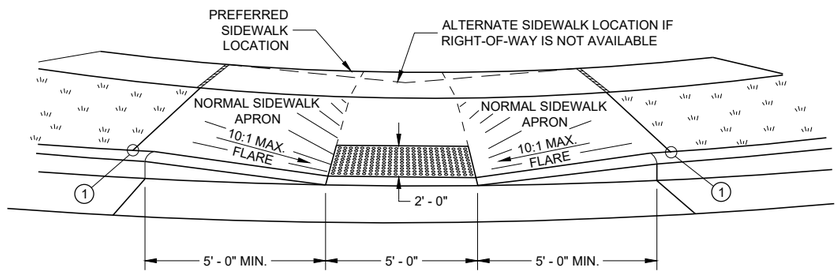
(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

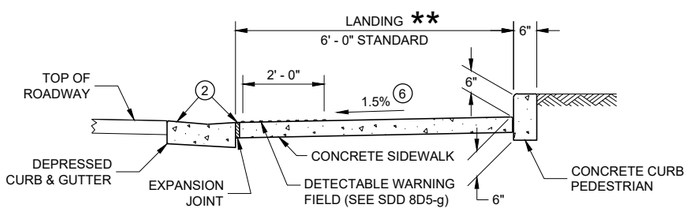
(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.



VIEW A - A FOR TYPE 1

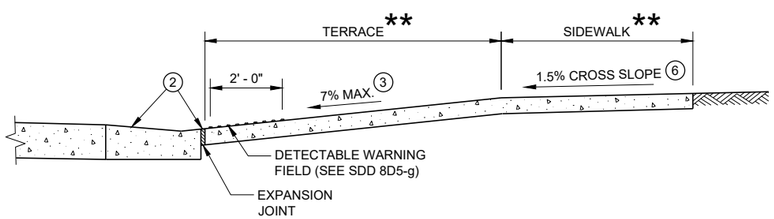


SECTION C - C FOR TYPE 1 - A

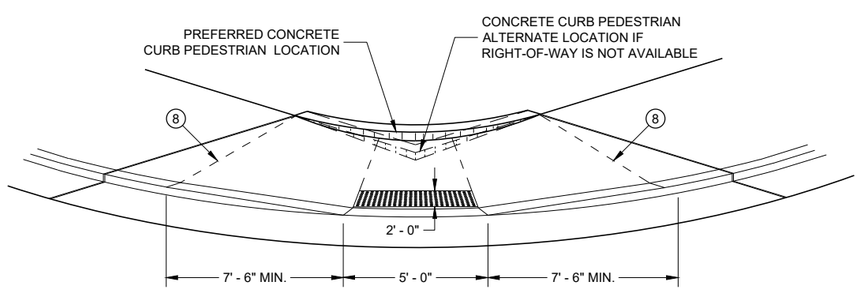
LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



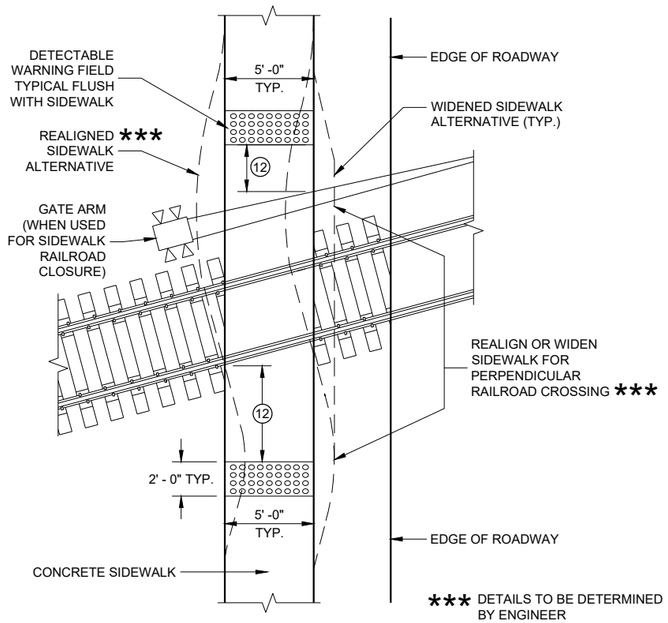
VIEW D - D FOR TYPE 1 - A

CURB RAMPS
TYPE 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

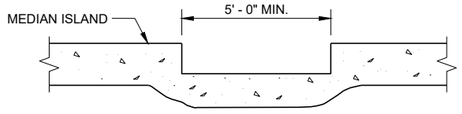
SDD 08D05 - 20a

SDD 08D05 - 20a

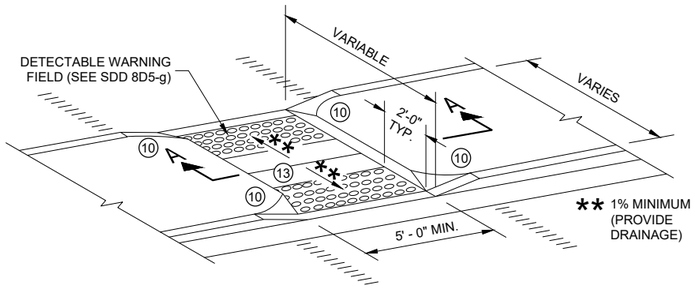


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

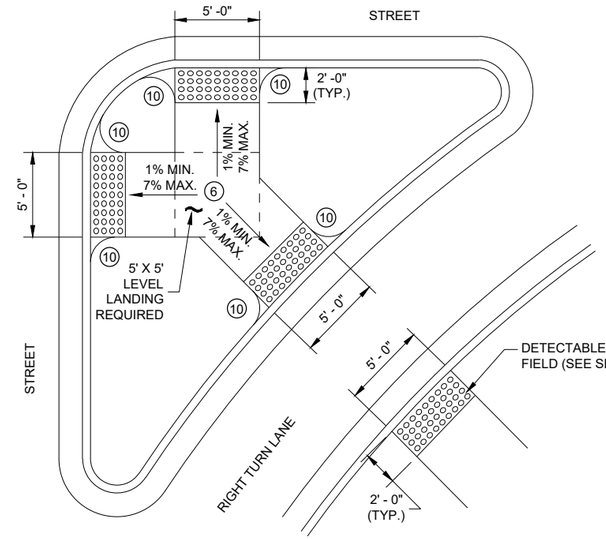
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

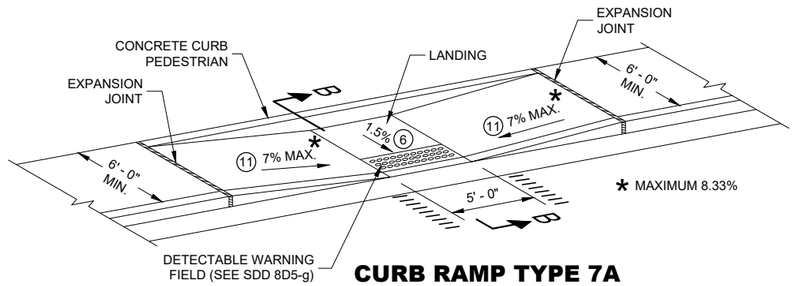
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

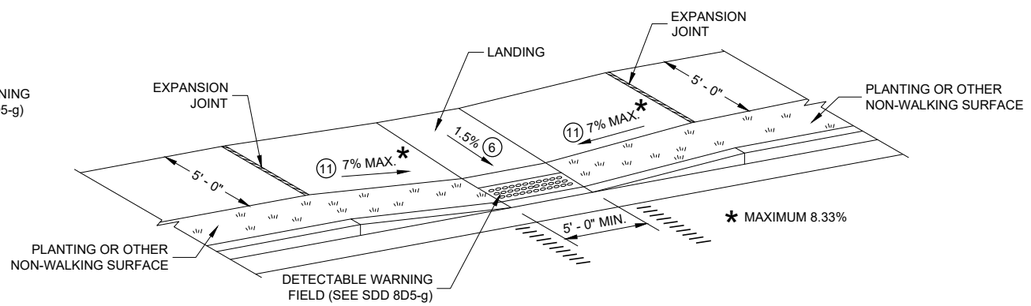
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

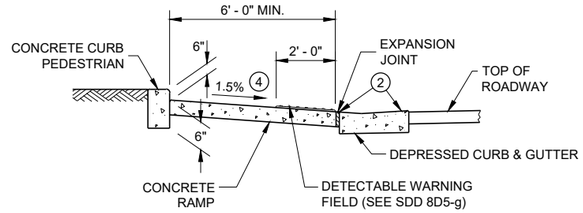
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



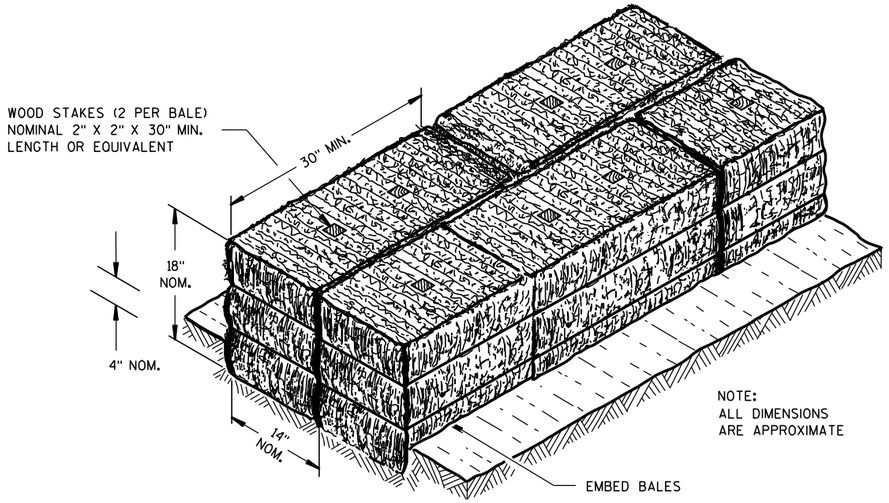
SECTION B - B FOR TYPE 7A

CURB RAMPS TYPE 5, 6, 7A, 7B & 8

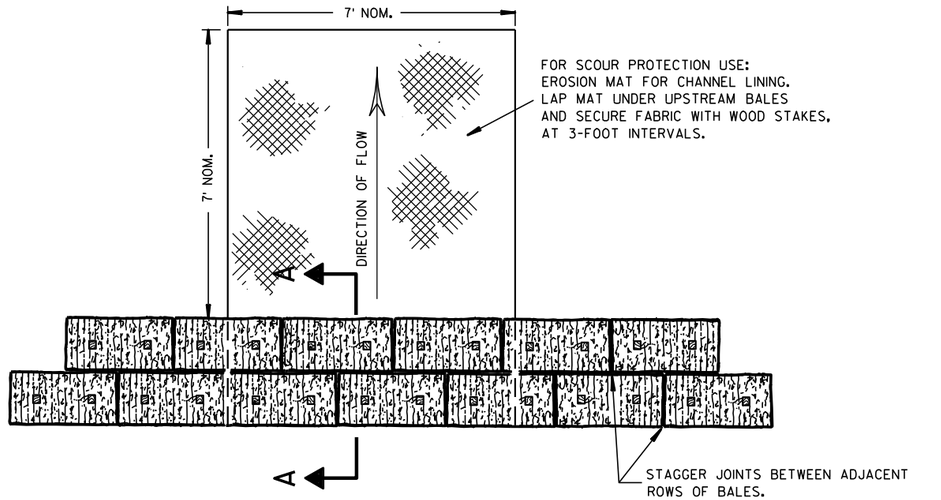
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D05 - 20e

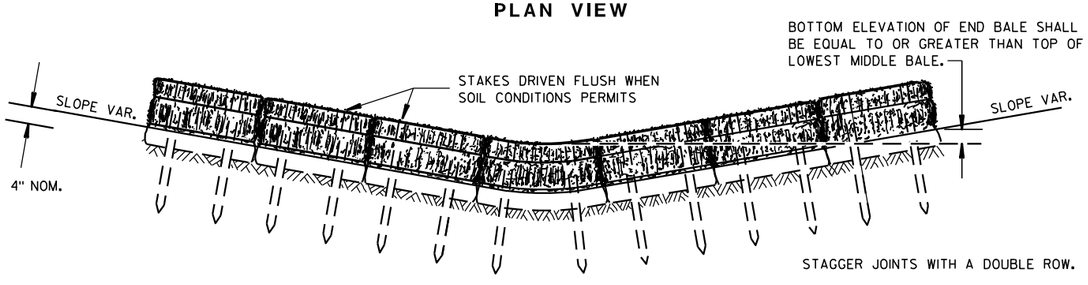
SDD 08D05 - 20e



SECTION A-A



PLAN VIEW



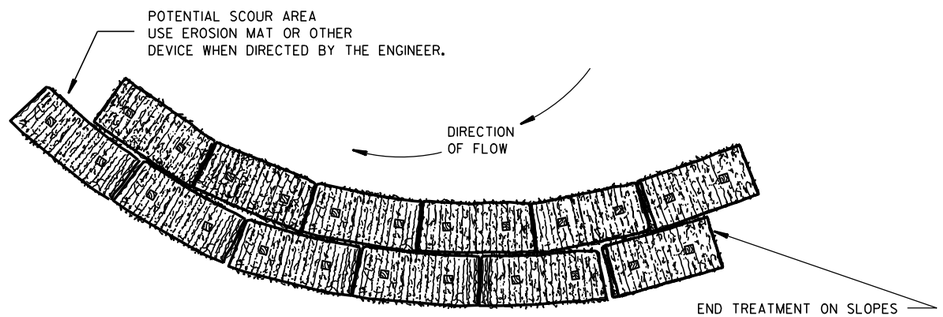
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

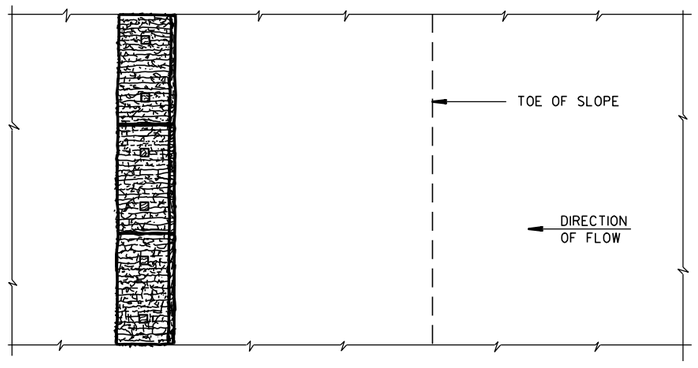
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

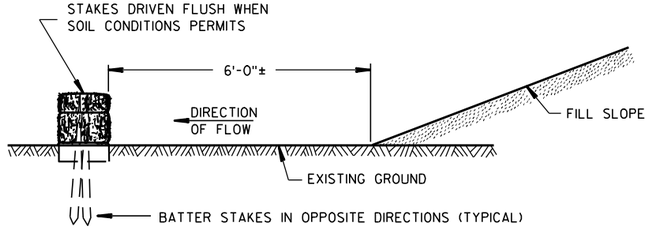


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

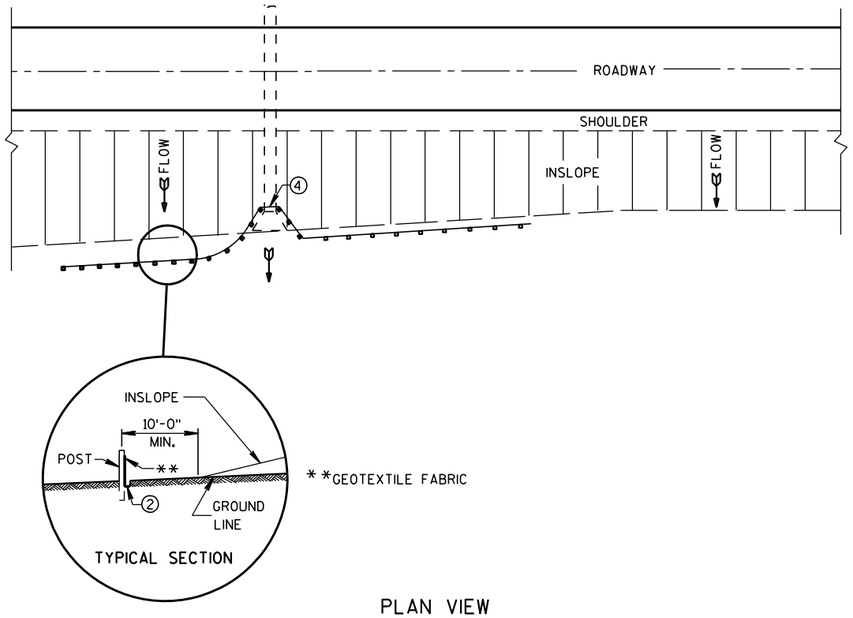
EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

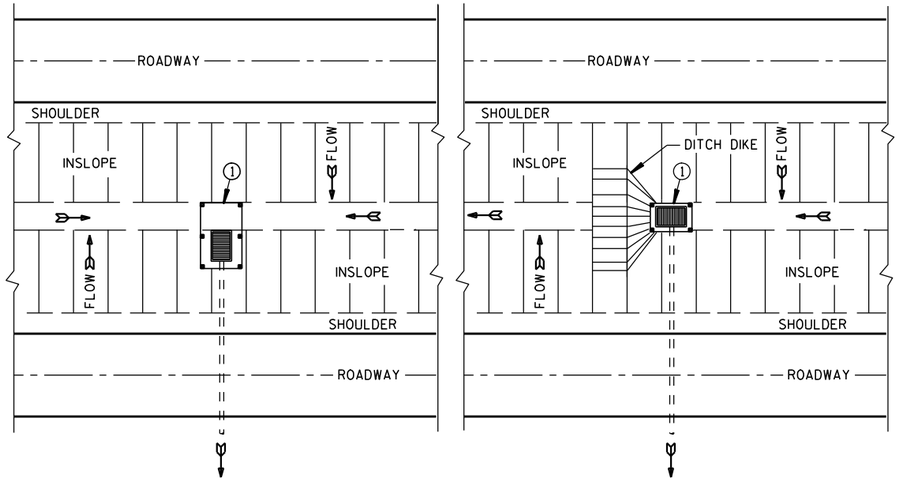
APPROVED
6/04/02 — DATE
/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

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

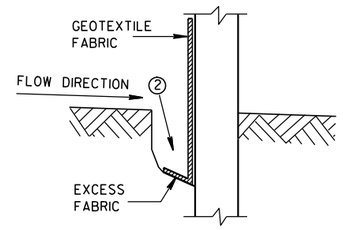
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

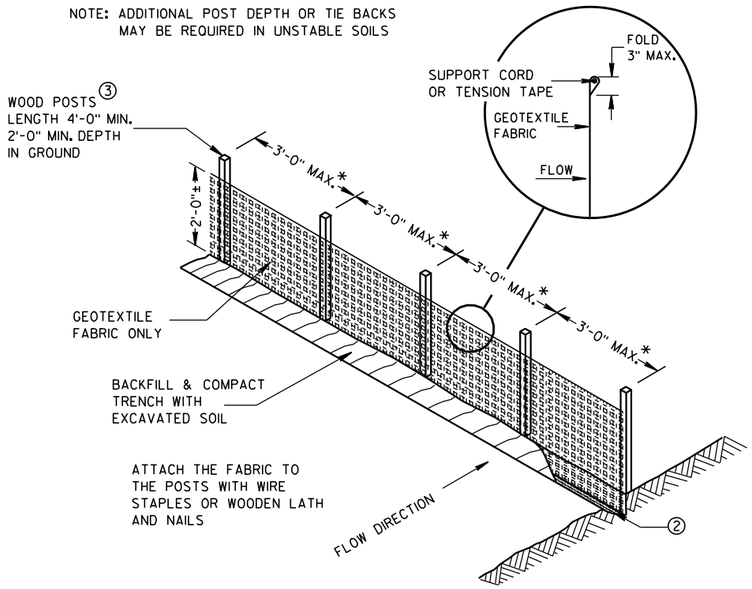
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

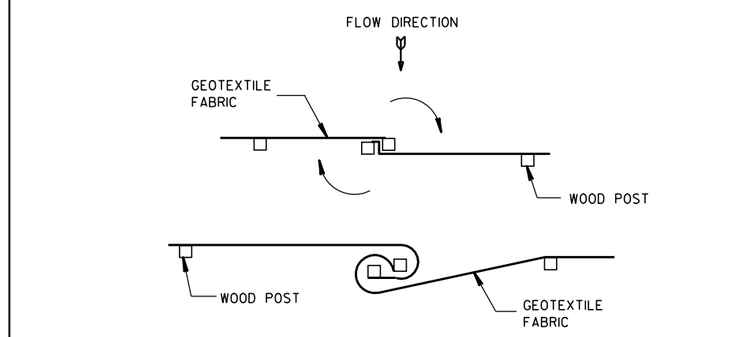


TRENCH DETAIL

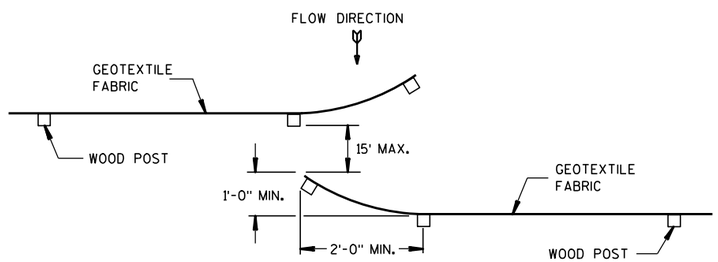


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

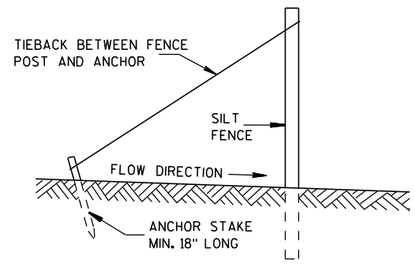


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

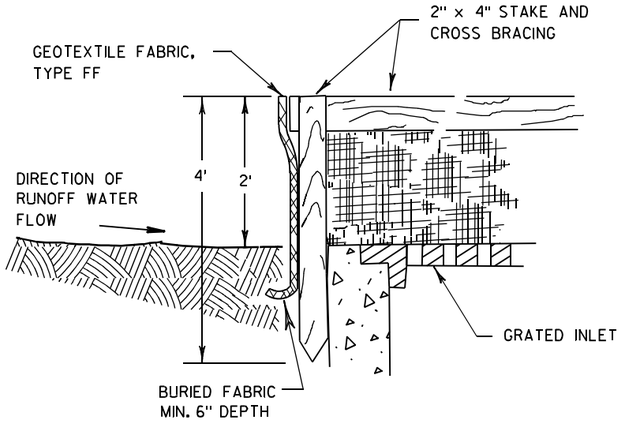
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

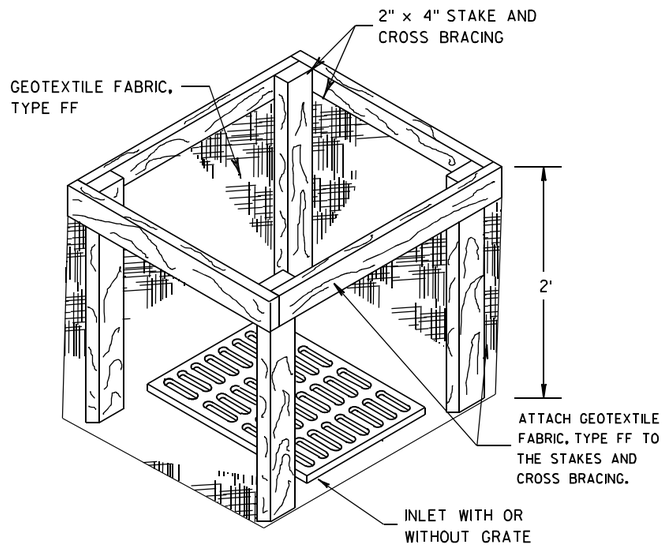
6

S.D.D. 8 E 9-6

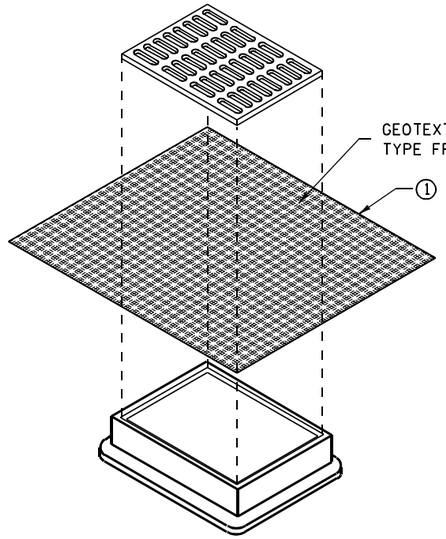
6

S.D.D. 8 E 9-6



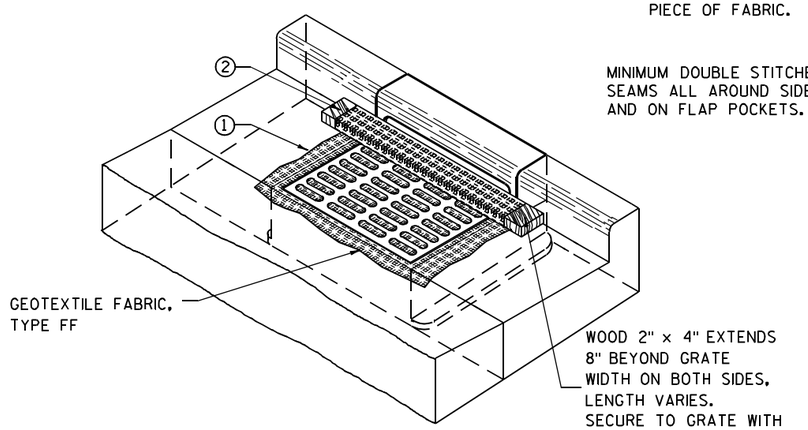


INLET PROTECTION, TYPE A

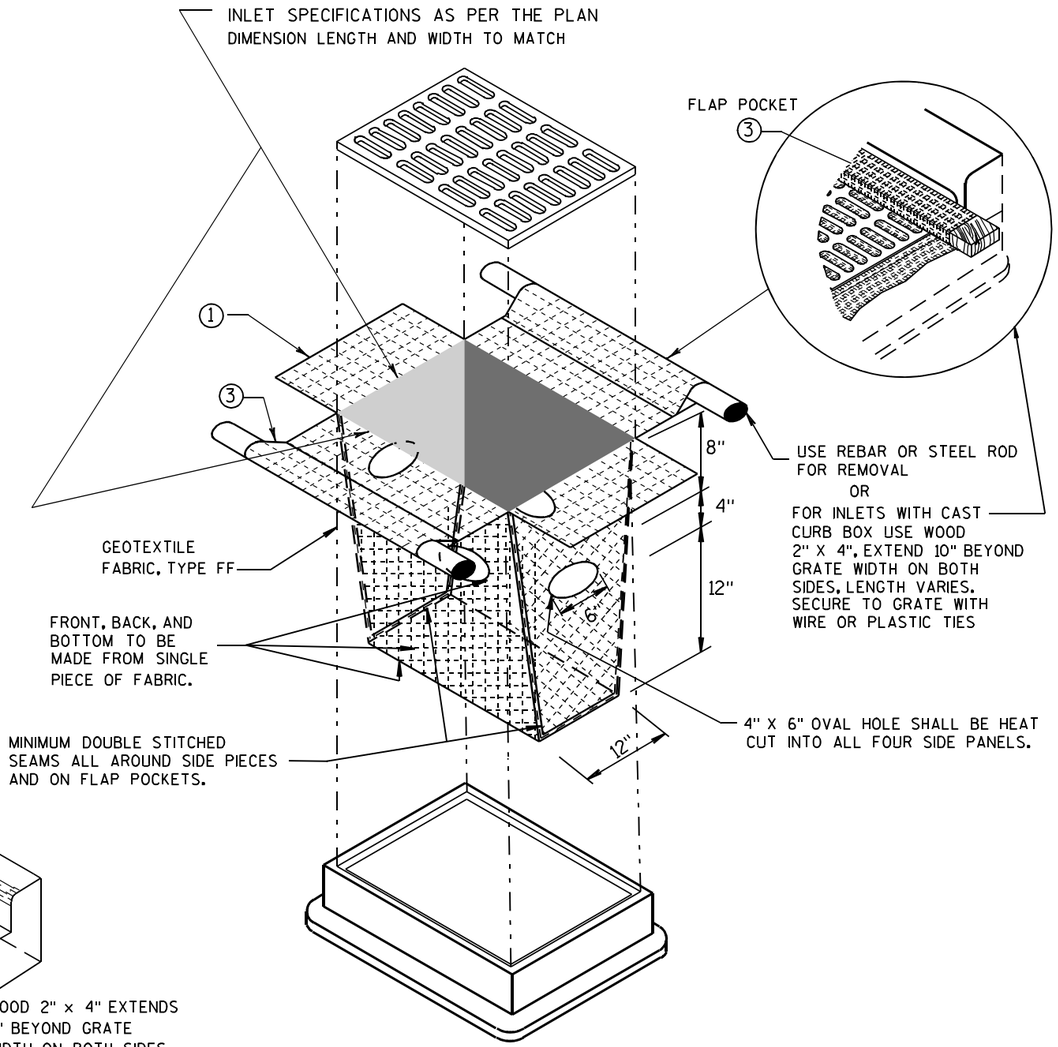


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

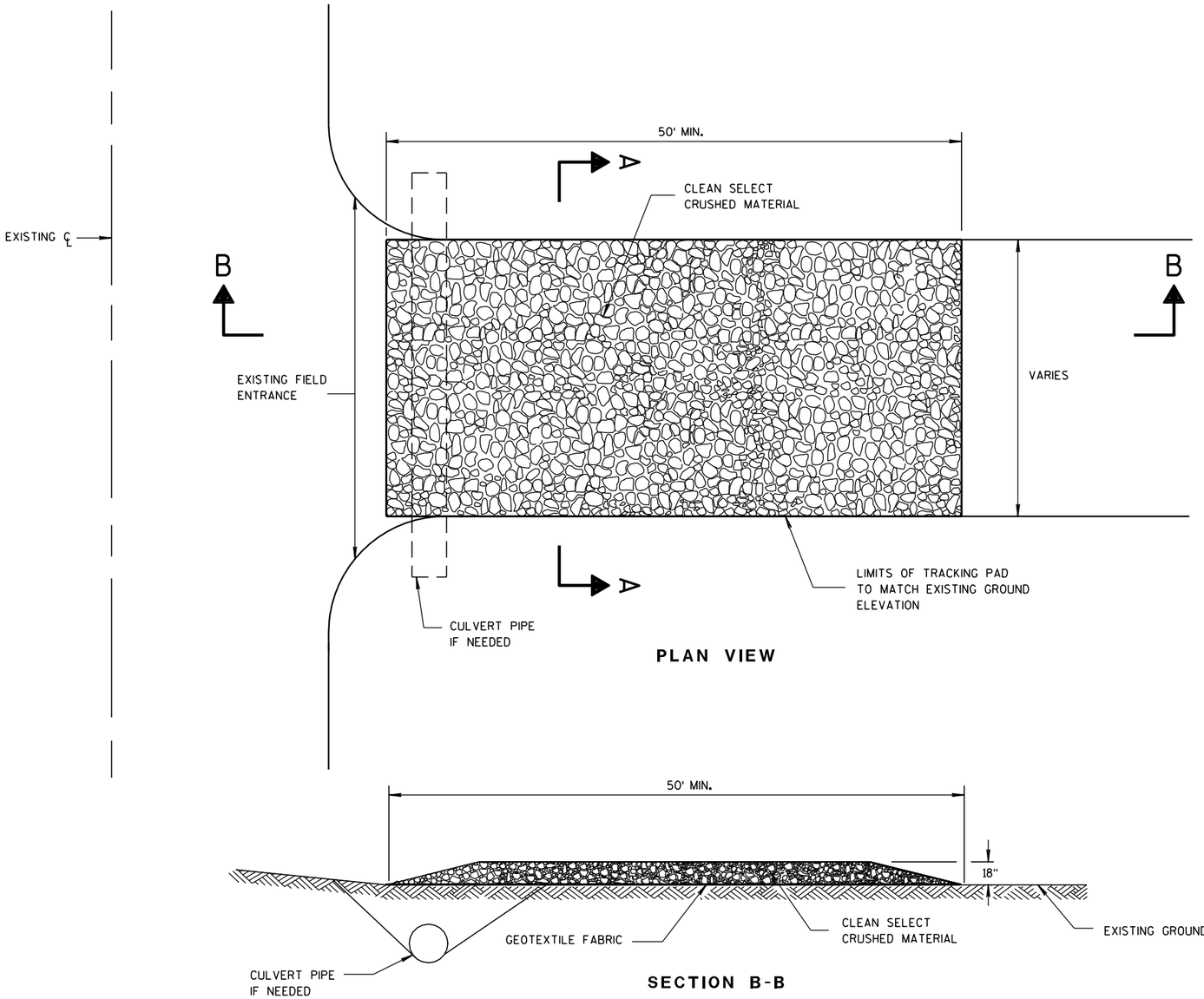
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



PLAN VIEW

SECTION B-B

GENERAL NOTES

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

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

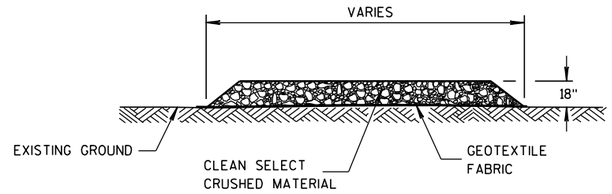
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS ENGINEER
ENT
FHWA

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S.D.D. 8 E 14-1

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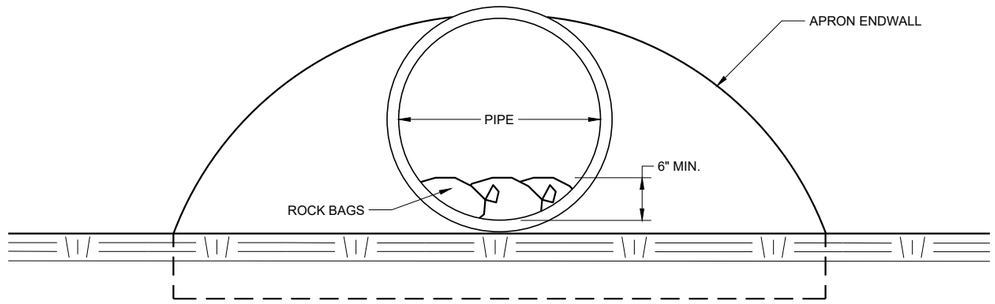
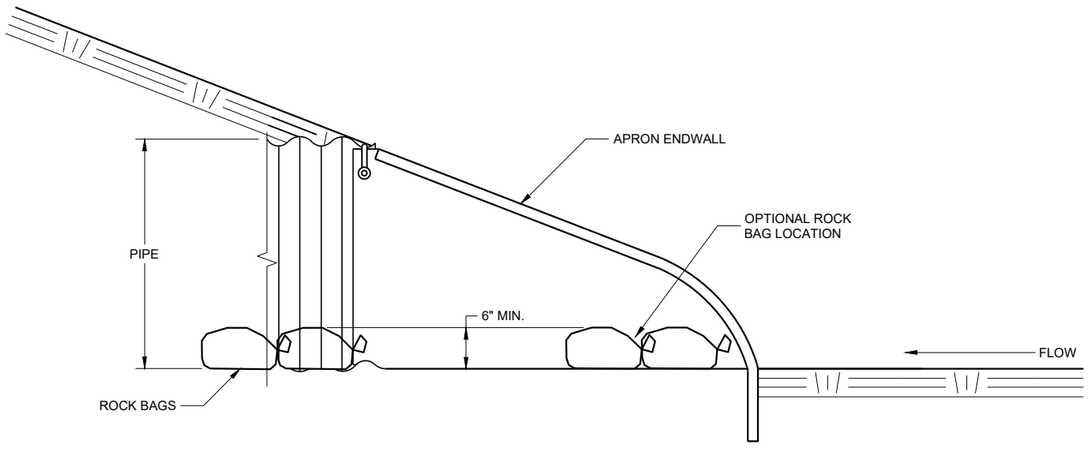
S.D.D. 8 E 14-1



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2019 DATE	/S/ Daniel Schave EROSION CONTROL ENGI
FHWA	

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SDD 08E15 - 01

METAL APRON ENDWALLS

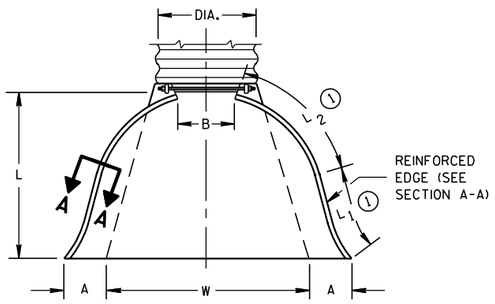
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

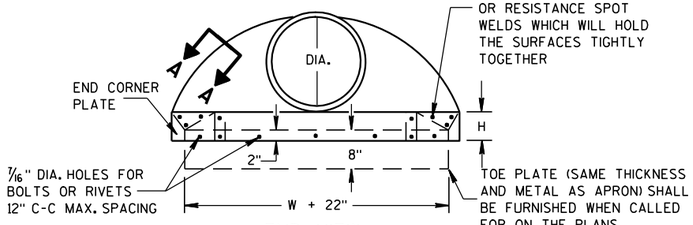
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

*MINIMUM
**MAXIMUM



PLAN VIEW



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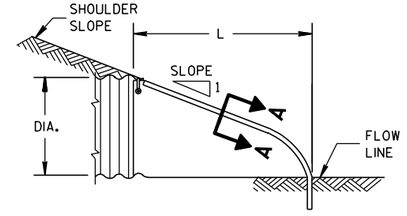
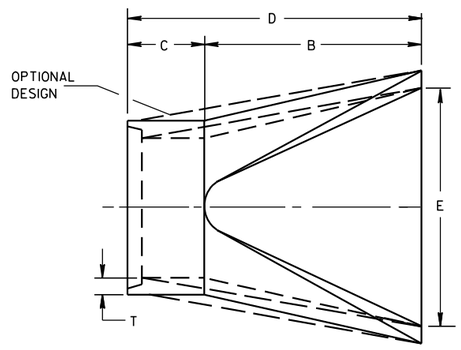
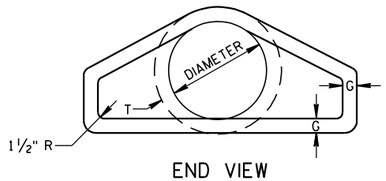


SIDE ELEVATION

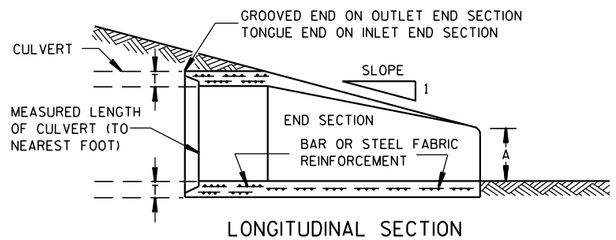
METAL ENDWALLS



PLAN

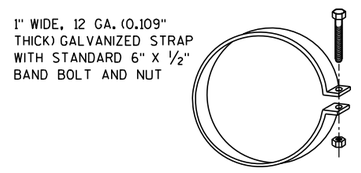


END VIEW



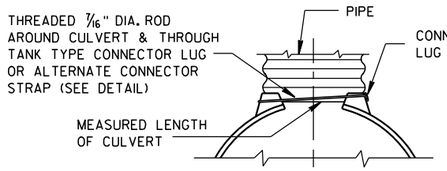
LONGITUDINAL SECTION

CONCRETE ENDWALLS

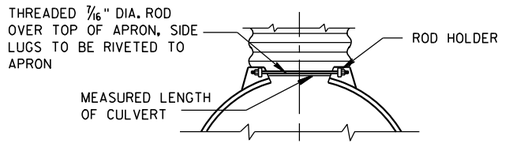


ALTERNATE FOR TYPE 1 CONNECTION

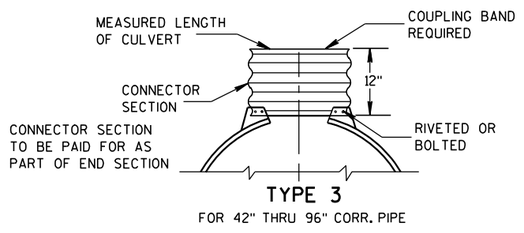
END SECTION CONNECTOR STRAP



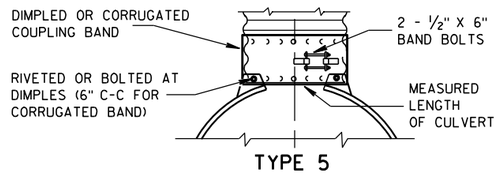
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

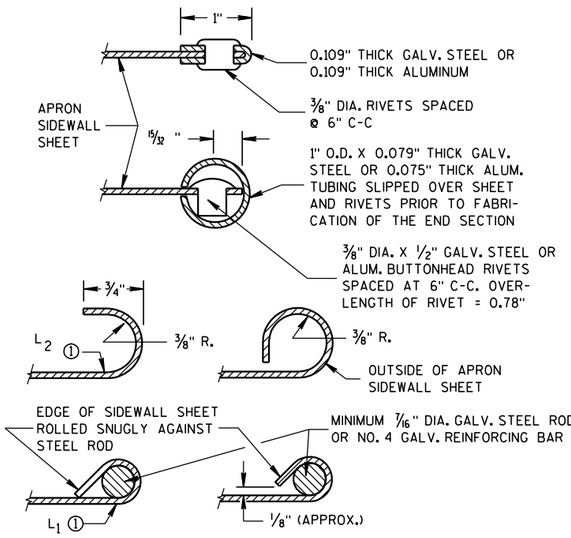
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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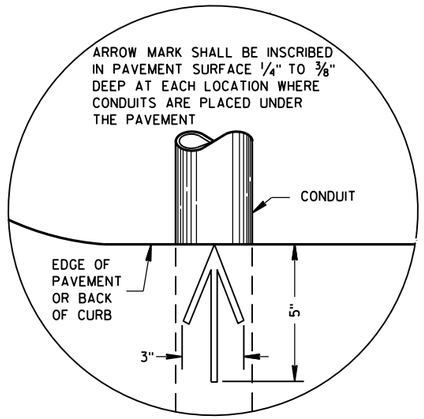
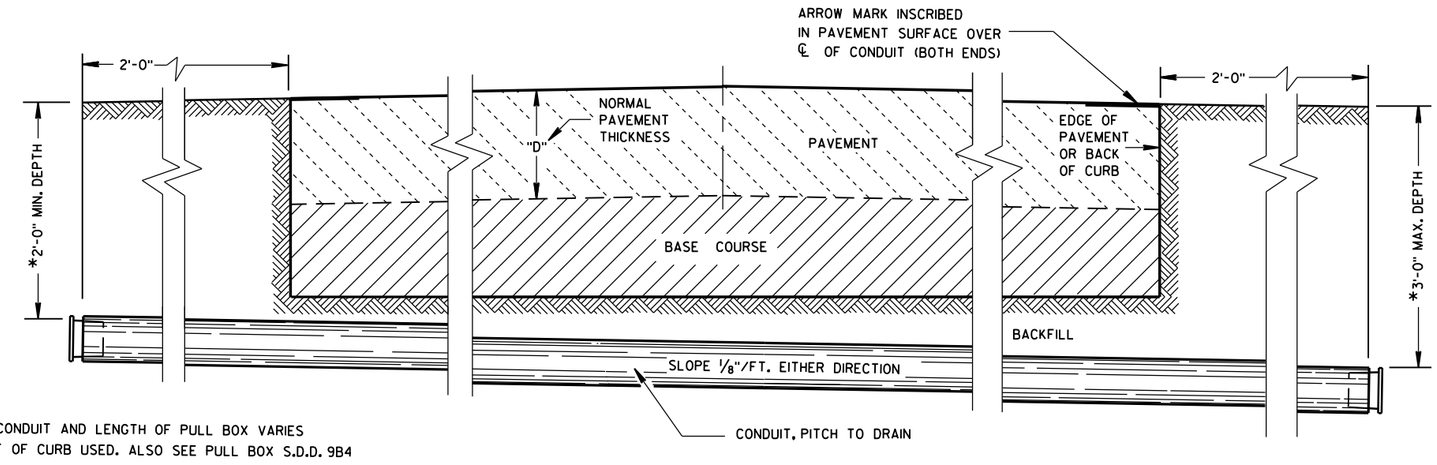
S.D.D. 8 F 1-11



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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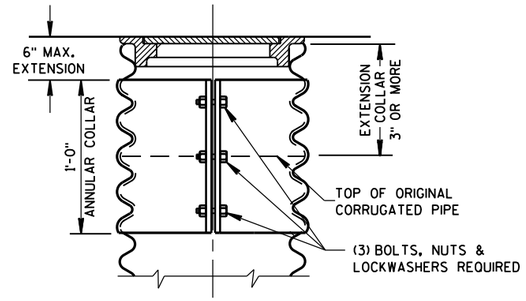
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

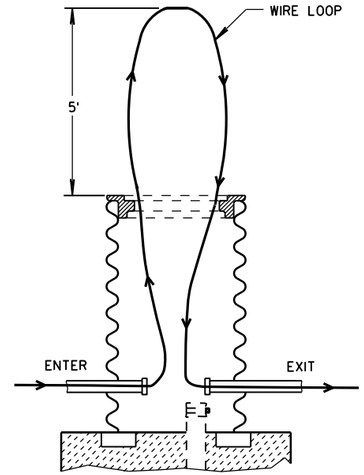
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

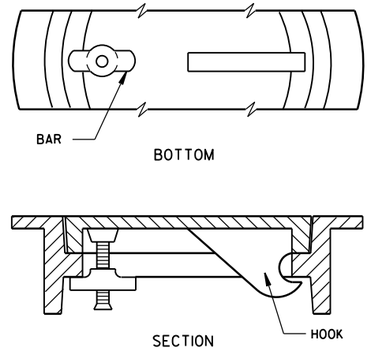
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

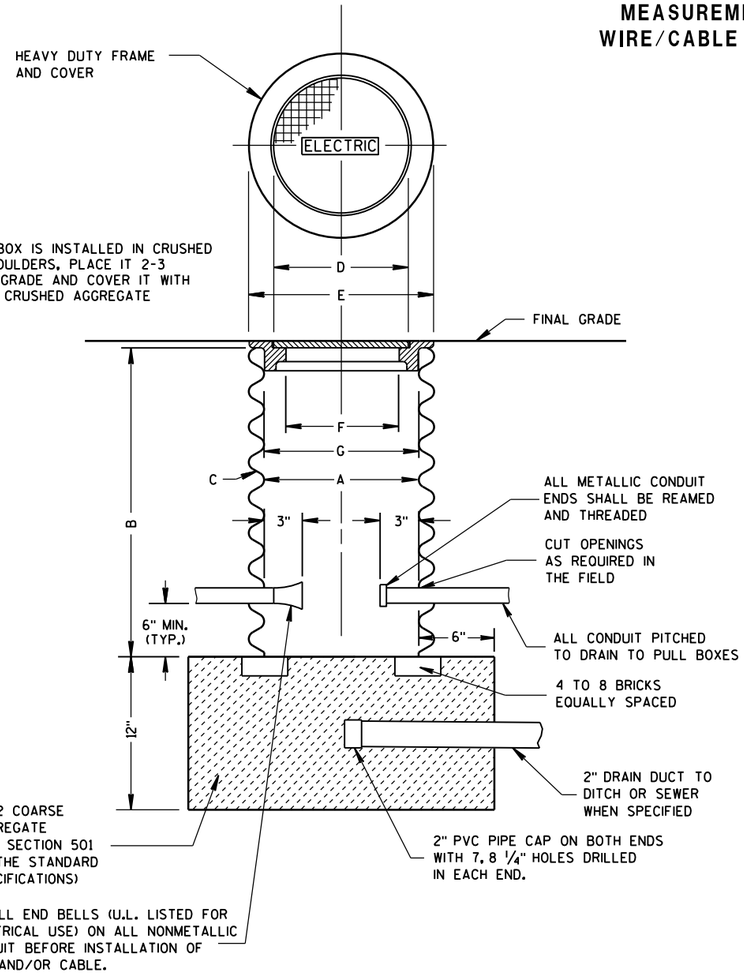


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



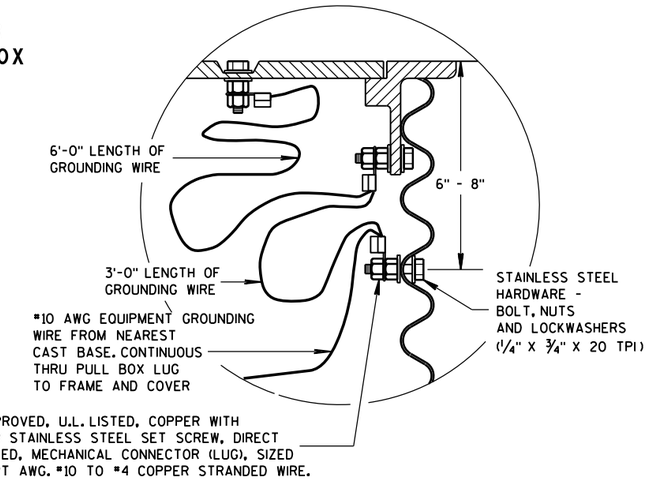
ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

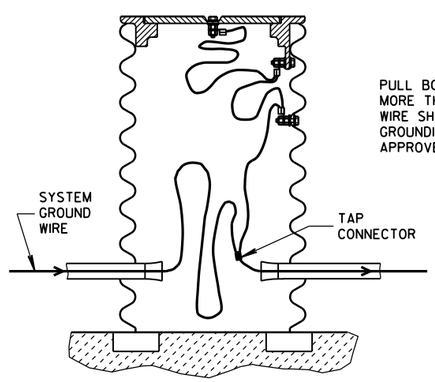
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

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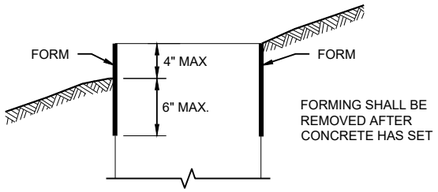
S.D.D. 9 B 4-11

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWINGSHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL BENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

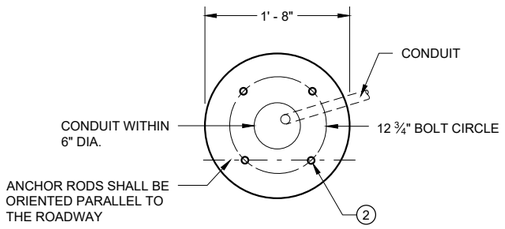
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

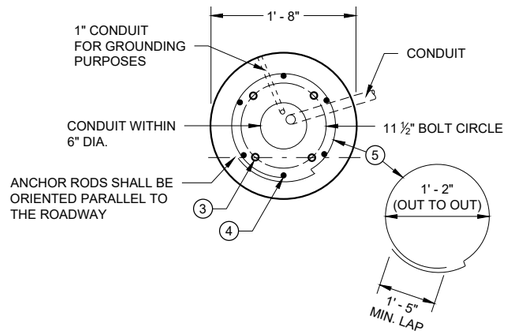
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

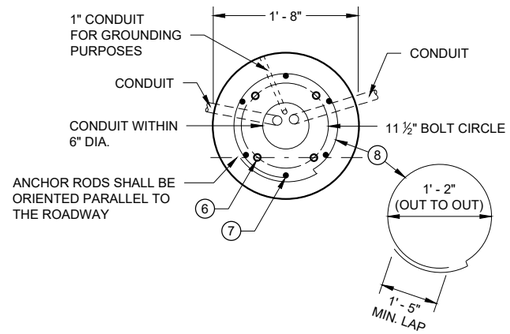
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).







(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

(2) (4) 1" DIA. X 3' - 6" ANCHOR RODS.

(3) (4) 1" DIA. X 5' - 0" ANCHOR RODS.

(4) (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

(5) (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

(6) (4) 1" DIA. X 3' - 6" ANCHOR RODS.

(7) (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

(9) EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

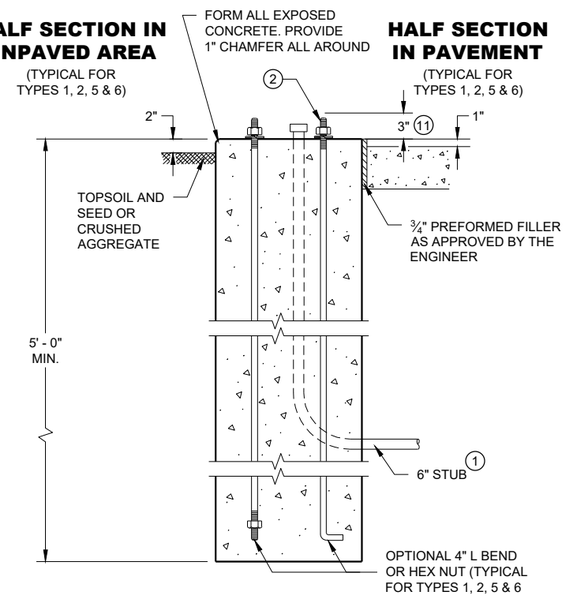
(10) ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

(11) ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

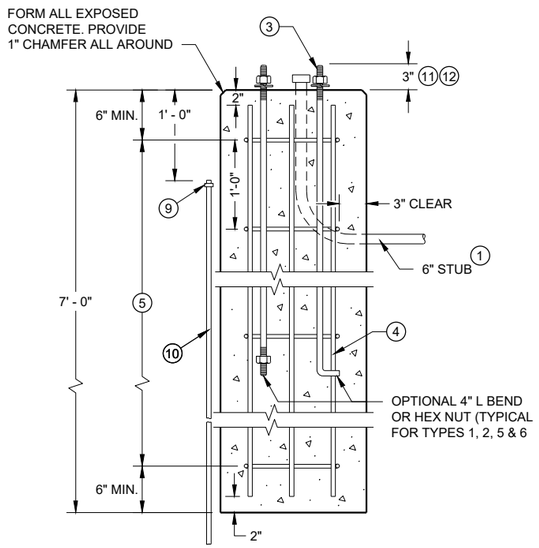
(12) FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



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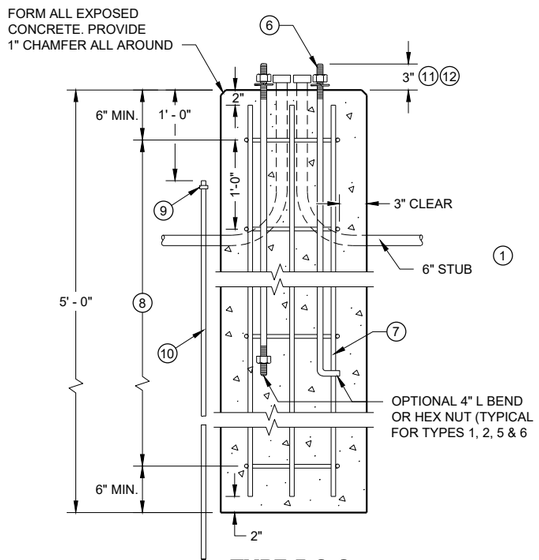


TYPE 5 & 6

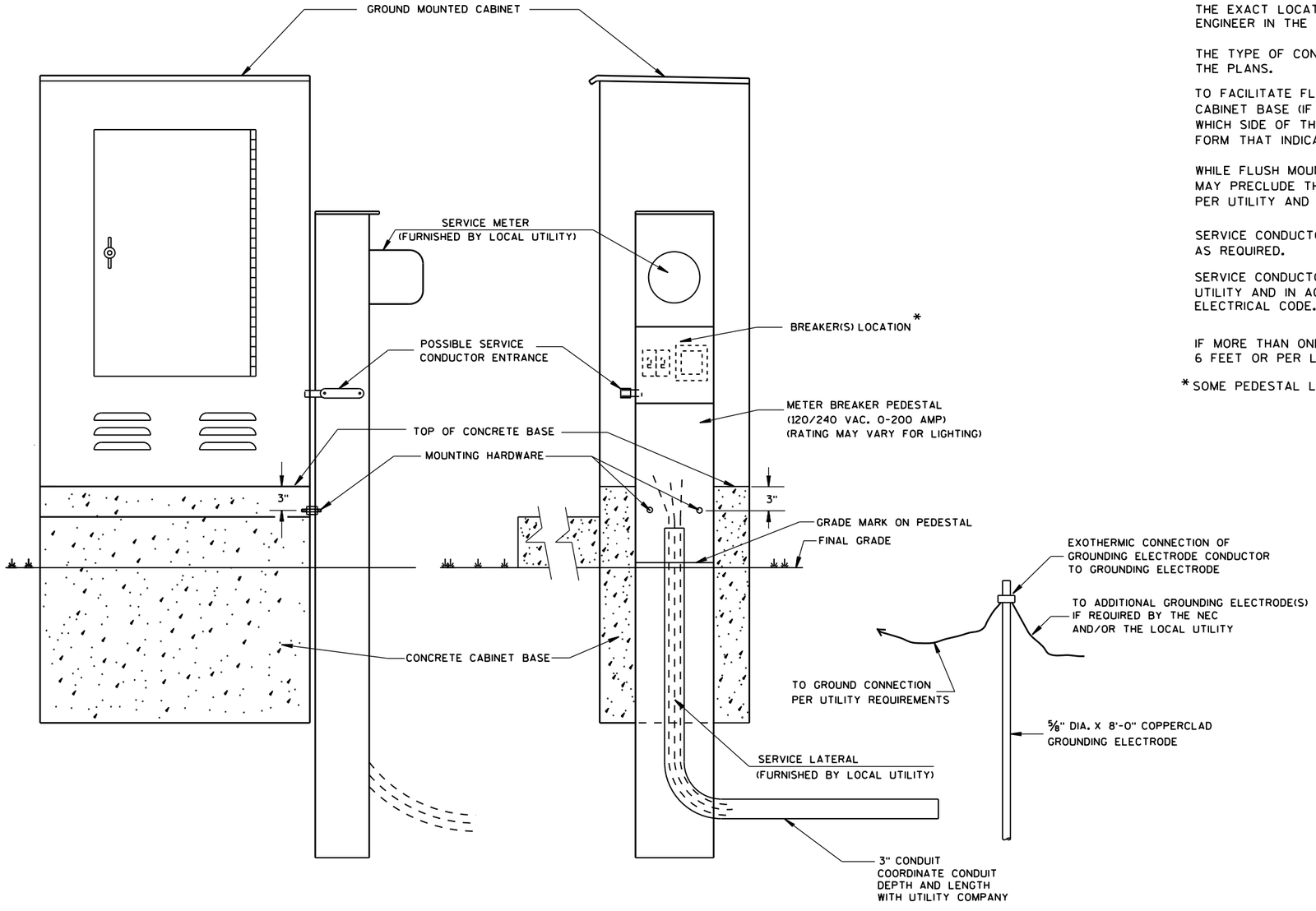
CONCRETE BASES

CONCRETE BASES TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 126

FHWA



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

*SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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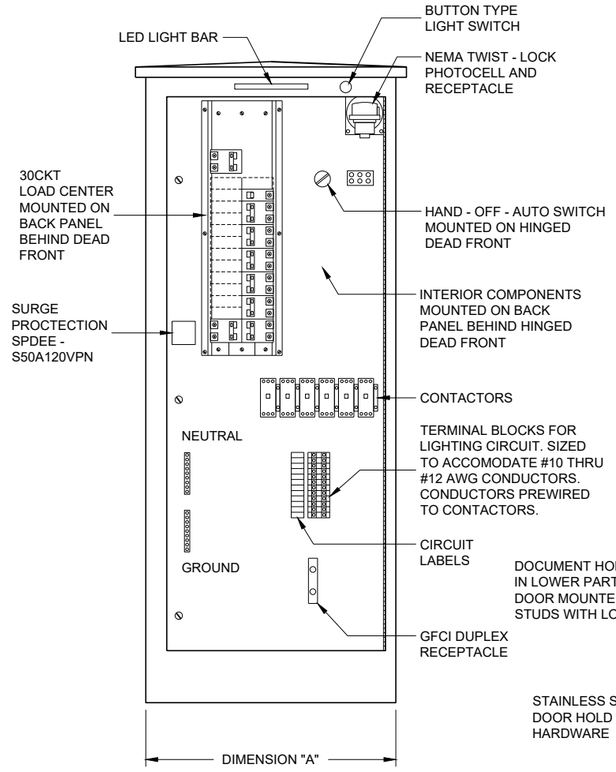
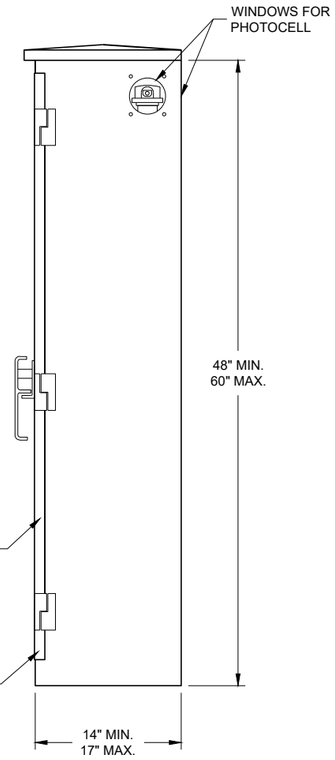
S.D.D. 9 D 1-5

FRONT INTERIOR ELEVATION



SIDE VIEW



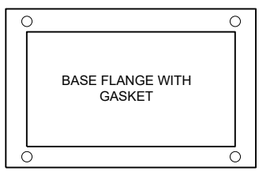
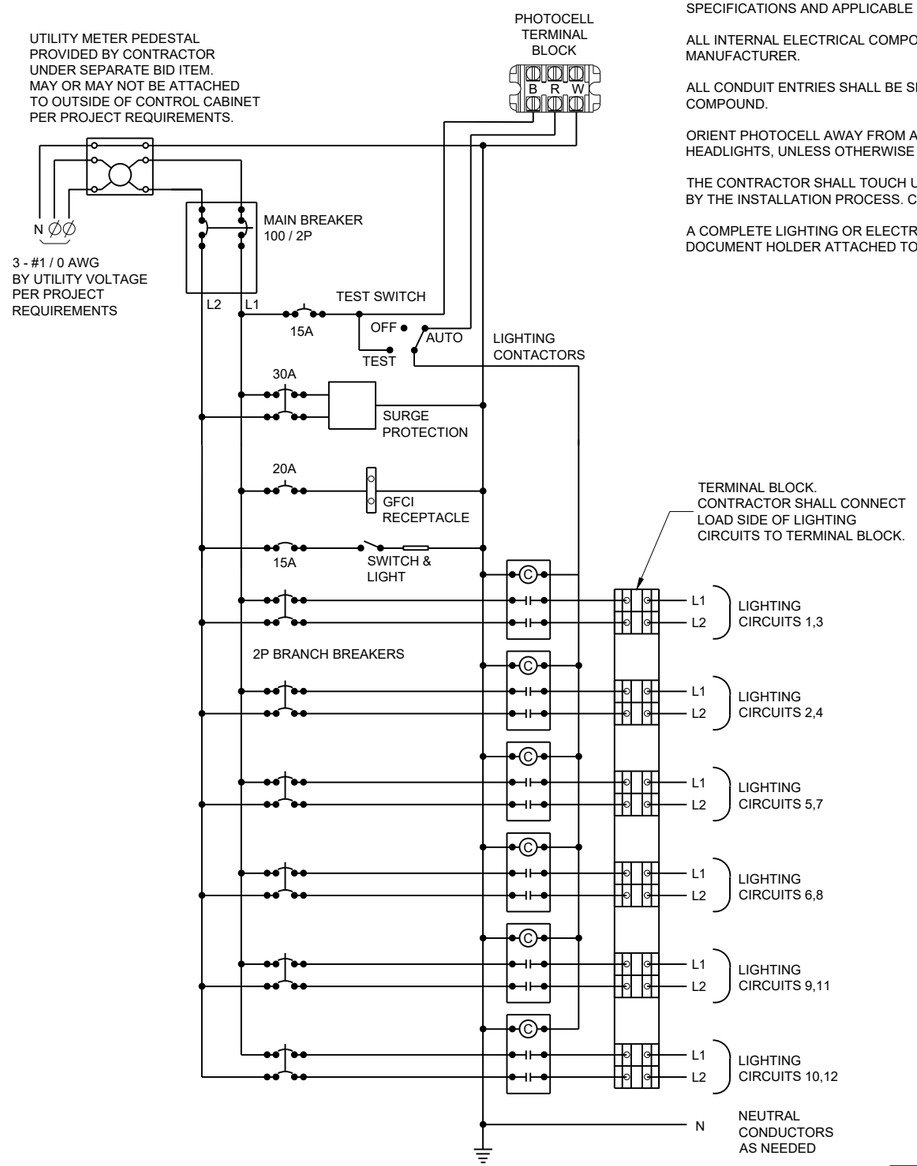


TABLE OF DIMENSIONS (INCHES)		
CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"

LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

GENERAL NOTES

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

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE - WIRED BY THE CABINENT MANUFACTURER.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS, UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISION.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

LIGHTING CONTROL CABINET 120 / 240 VOLT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

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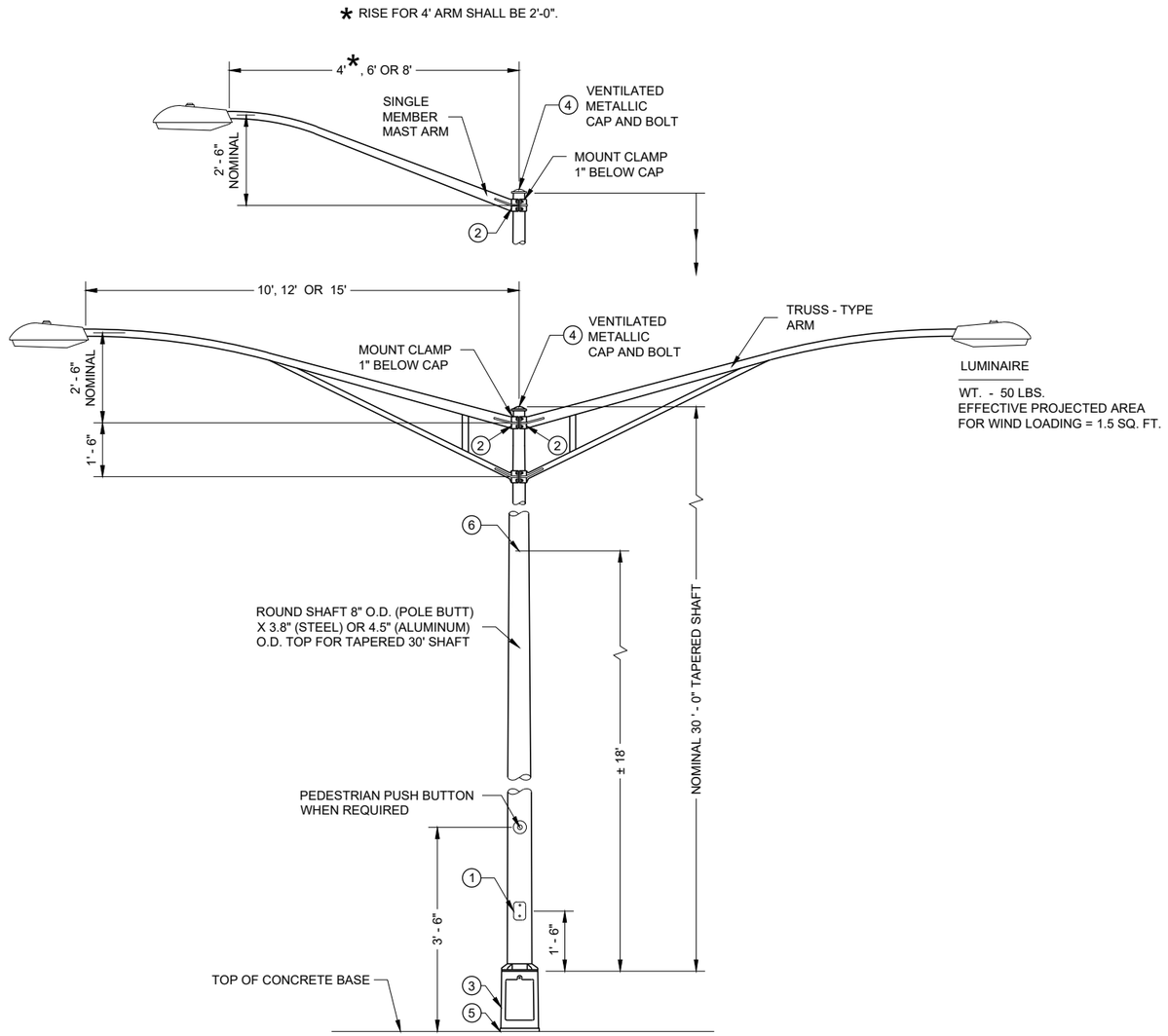
SDD 09D04 - 03



TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.1888".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

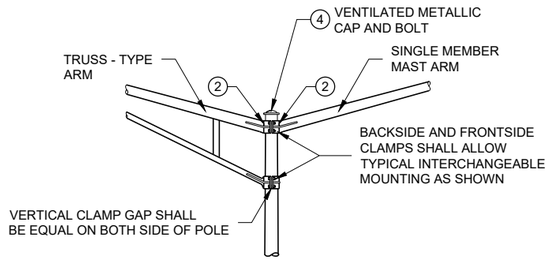
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.



INTERCHANGEABLE MOUNTING DETAIL

POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

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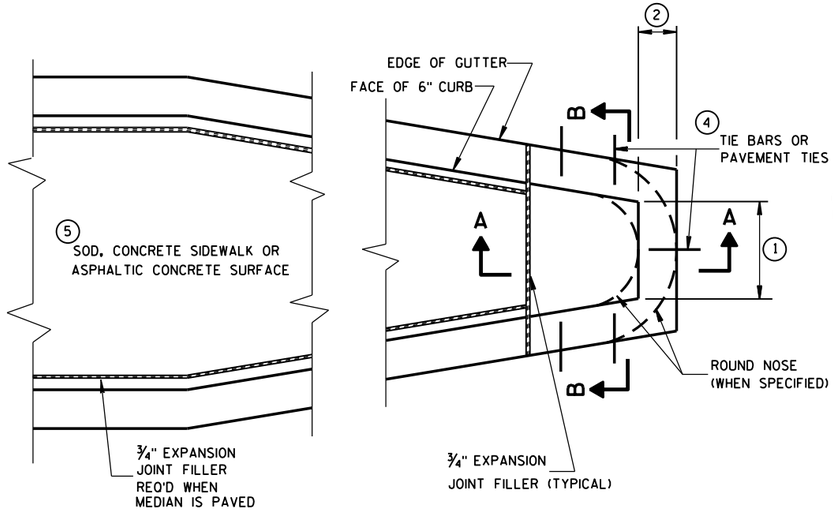
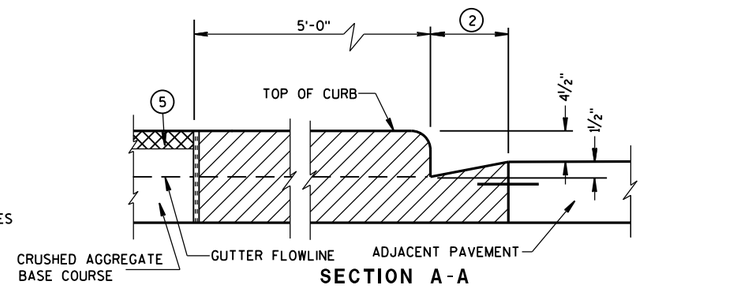
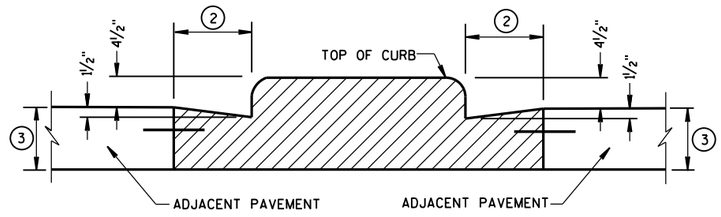






CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

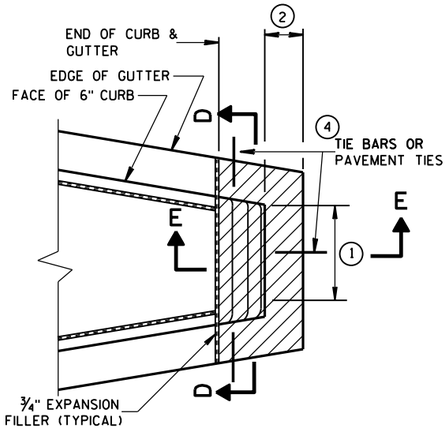
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

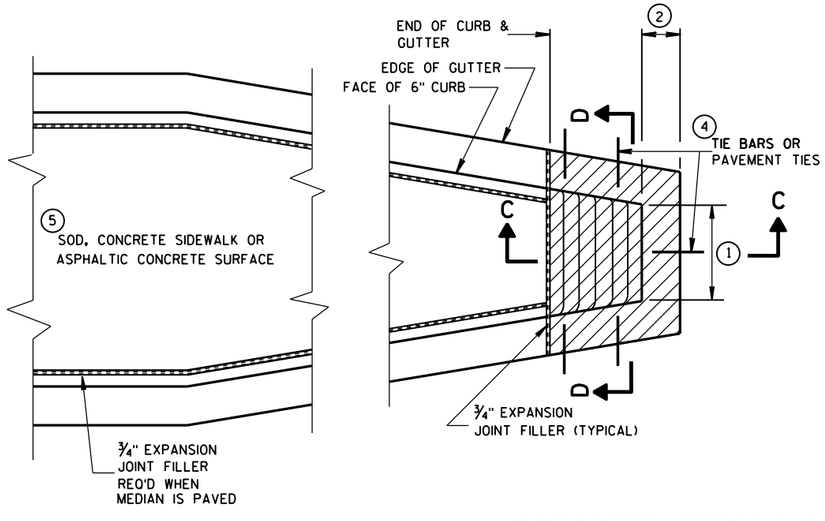
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

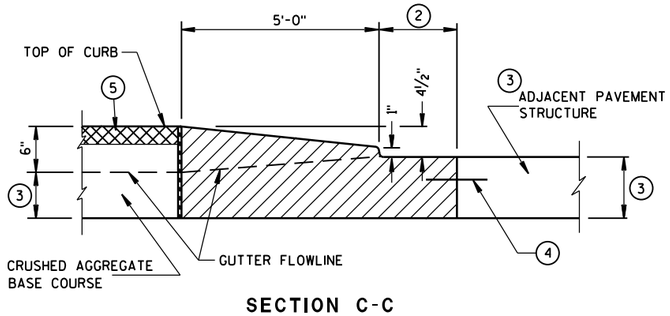
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

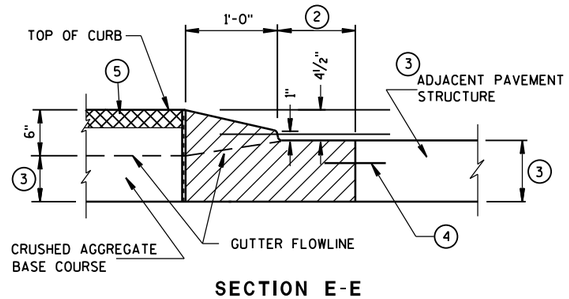
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



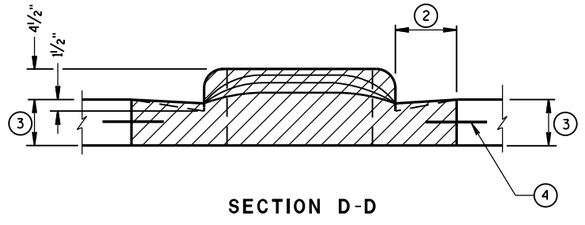






CONCRETE MEDIAN SLOPED NOSE TYPE 1

CONCRETE MEDIAN SLOPED NOSE TYPE 2



CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER
FHWA

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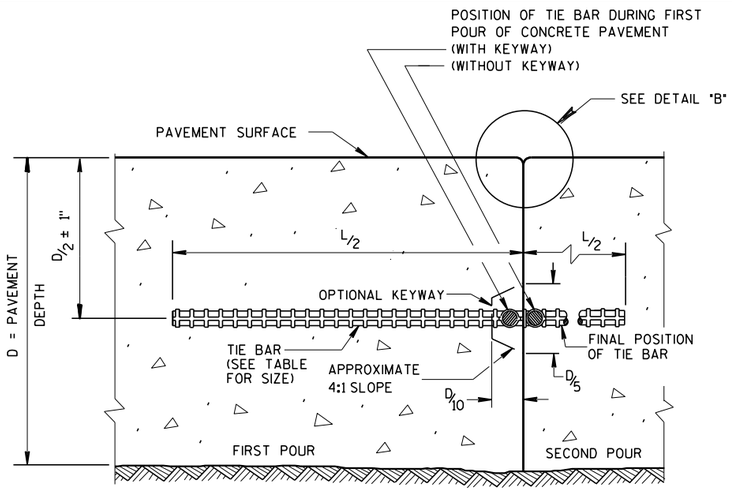
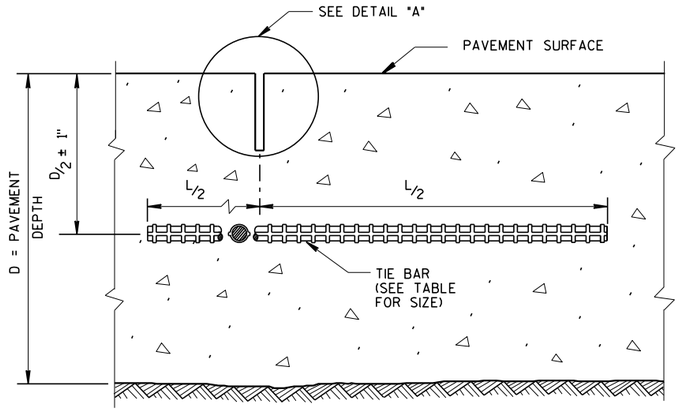
S.D.D. 11 B 2-2



CONSTRUCTION JOINT



SAWED JOINT

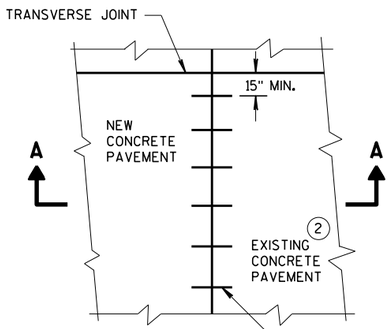
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

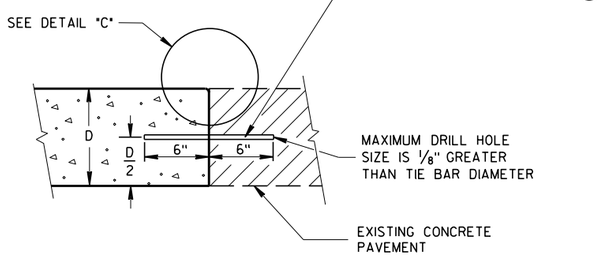
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

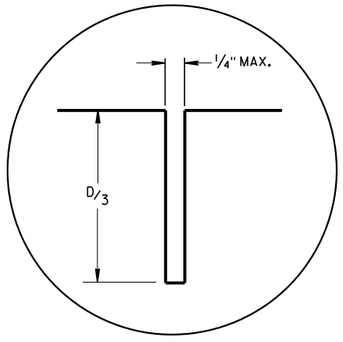


PLAN VIEW

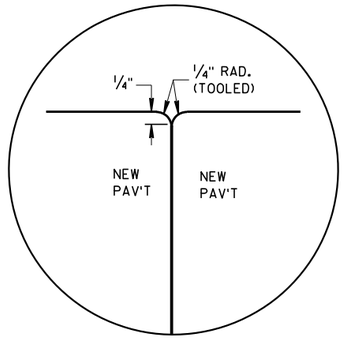


SECTION A-A

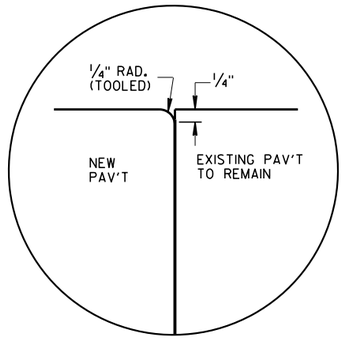
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



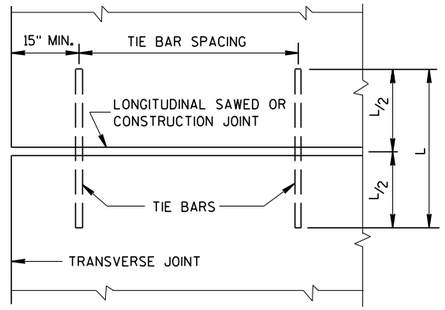
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

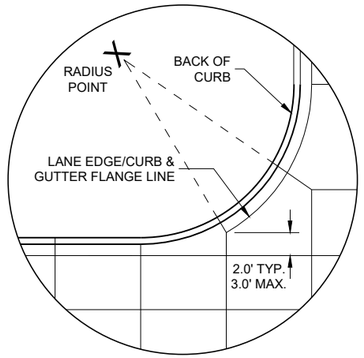


PLAN VIEW
SHOWING LOCATION OF TIE BARS

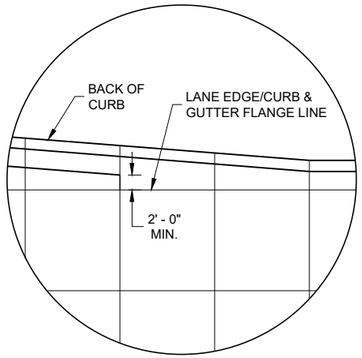
CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

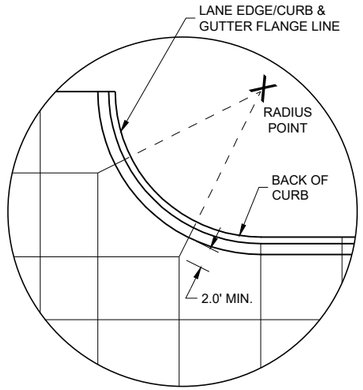
APPROVED
March 2018
DATE
/S/ Peter Kemp, PE
PAVEMENT SUPE
FHWA



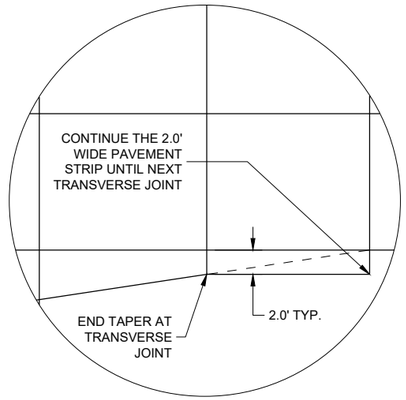
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

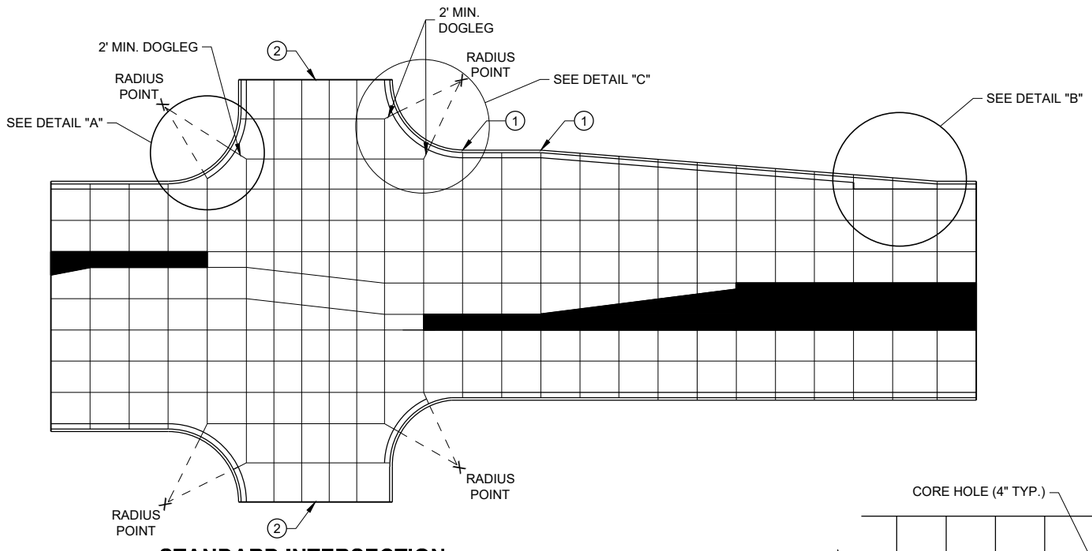
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

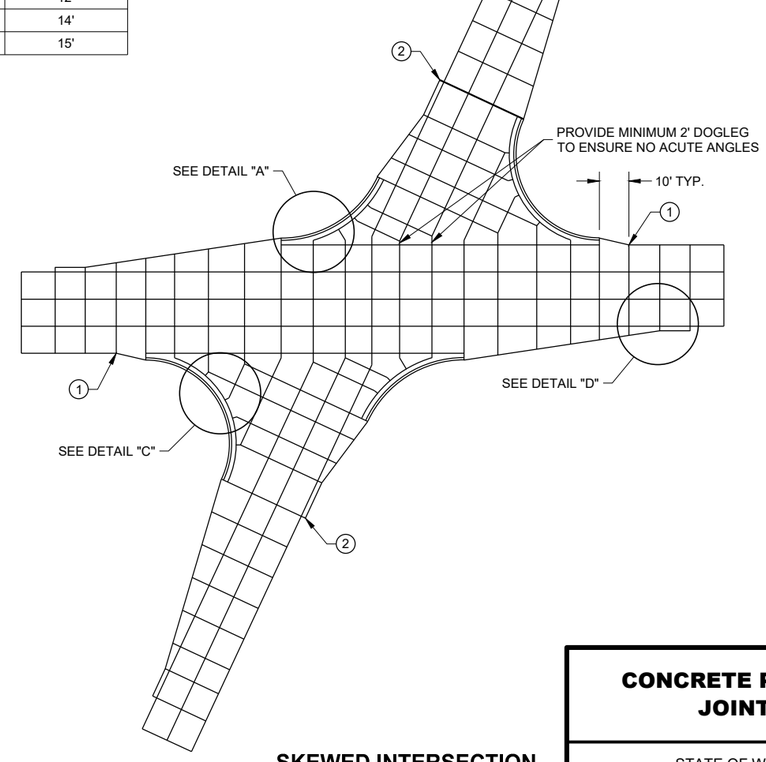
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITHEDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



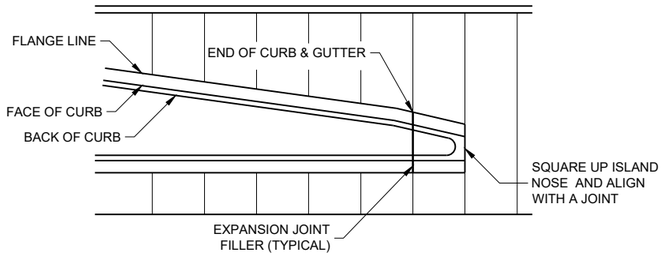
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

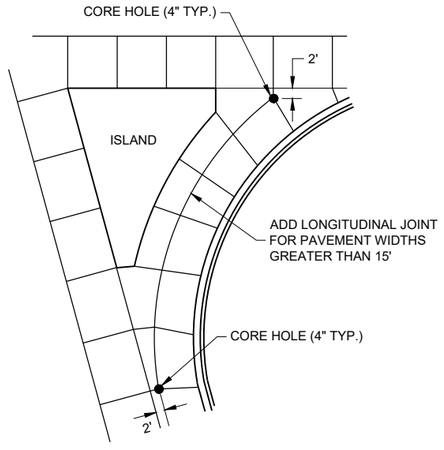
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07a

6

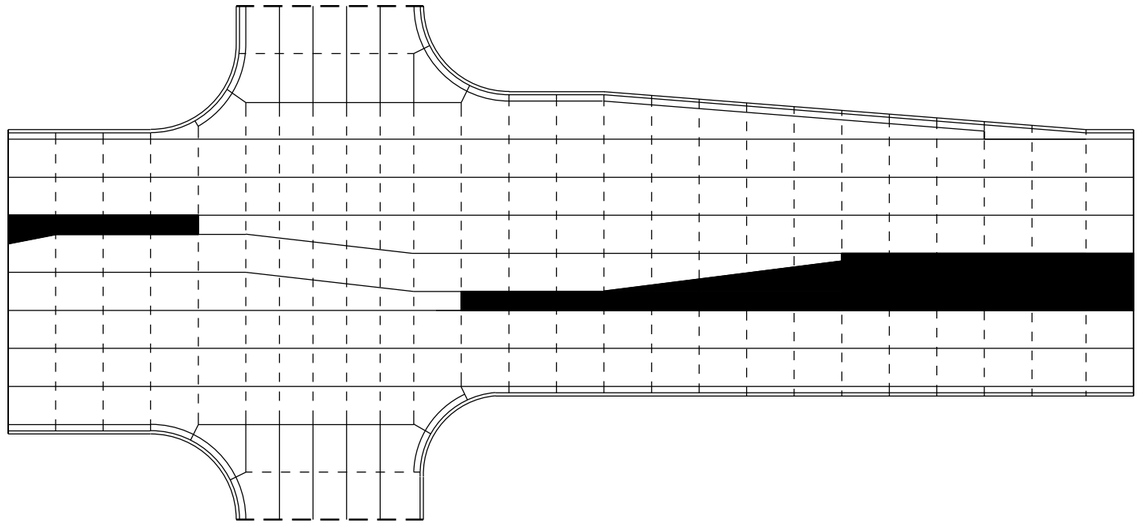
SDD 13C18 - 07a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

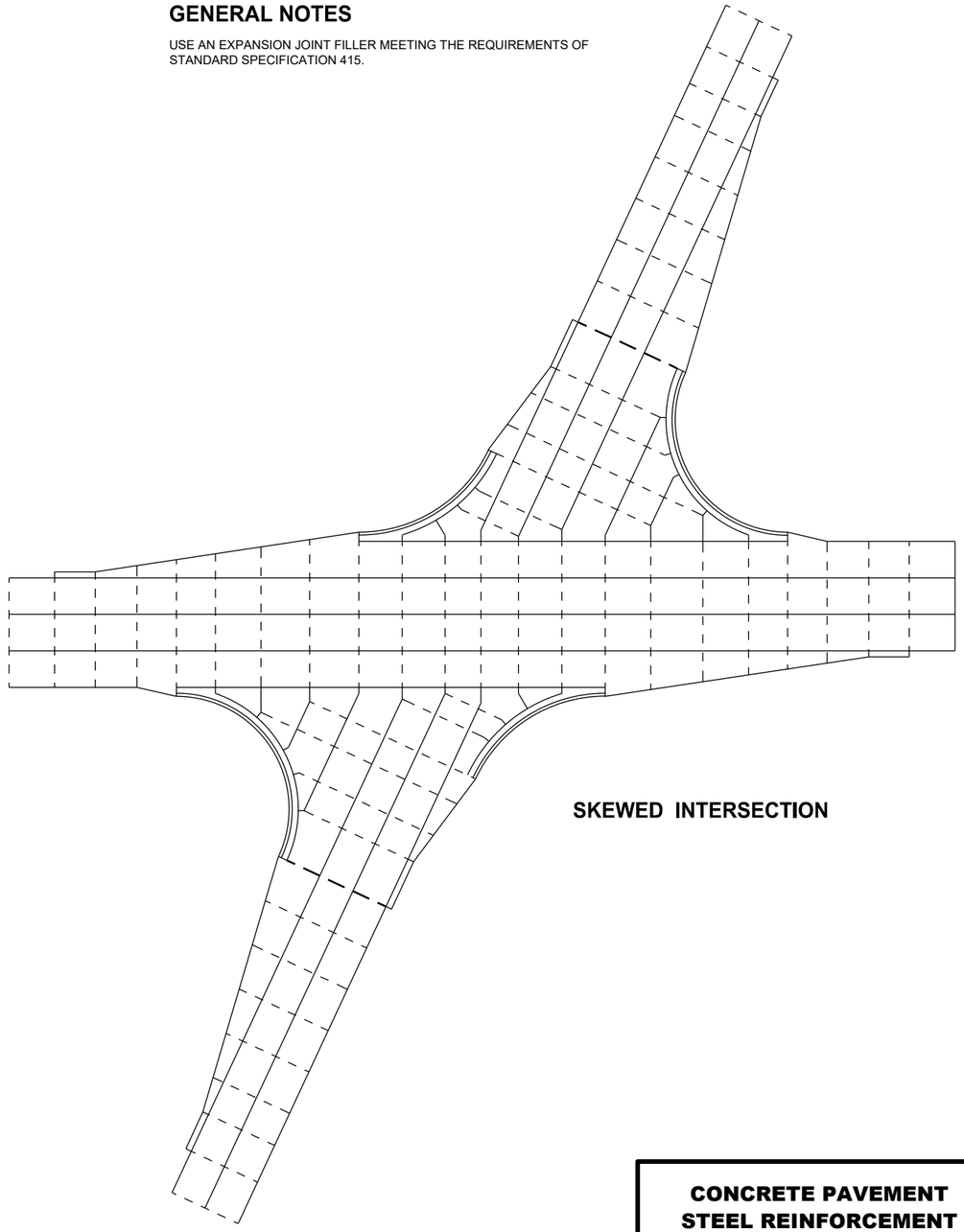
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

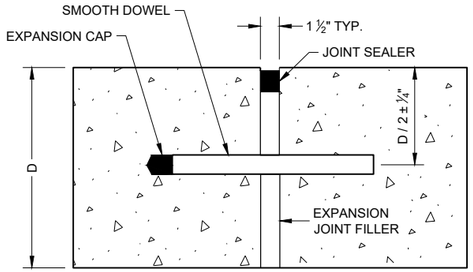
SDD 13C18 - 07b

CONCRETE PAVEMENT STEEL REINFORCEMENT

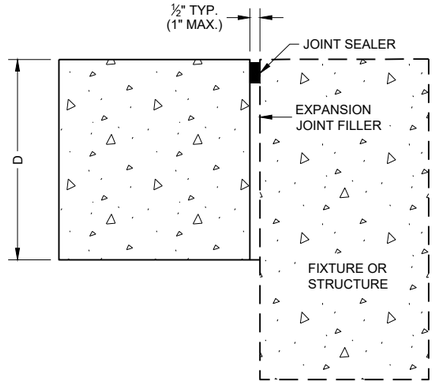
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

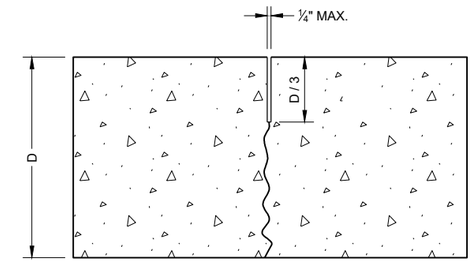
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

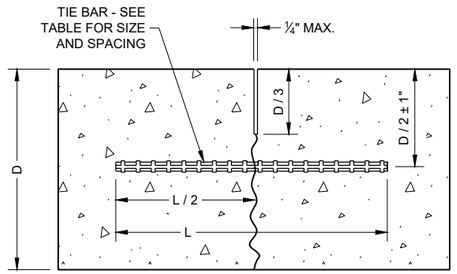
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

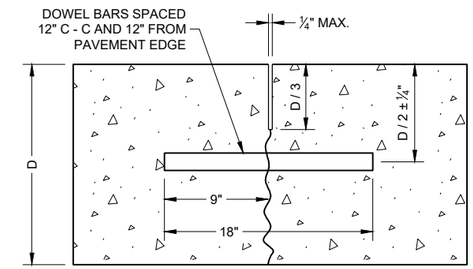
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

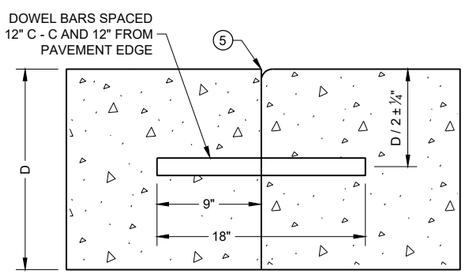


TIED LONGITUDINAL

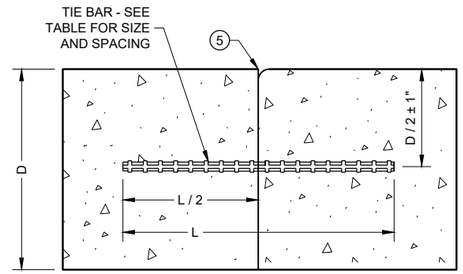


DOWELED TRANSVERSE

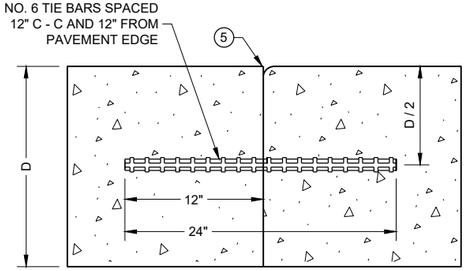
CONTRACTION JOINTS (2)



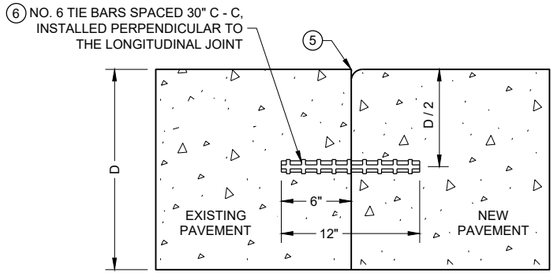
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

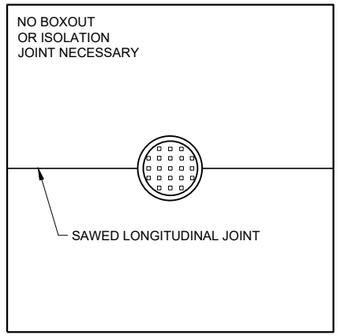
CONSTRUCTION JOINTS (4)

CONCRETE PAVEMENT JOINT TYPES

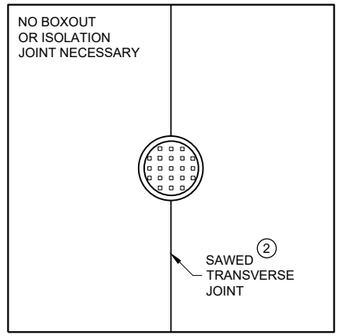
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

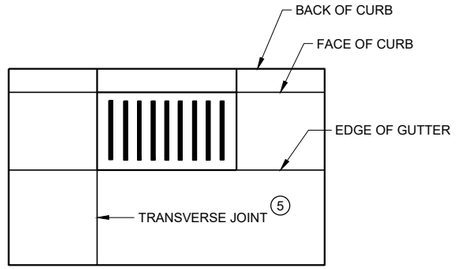
SDD 13C18 - 07c
SDD 13C18 - 07c



MANHOLE WITH LONGITUDINAL JOINT



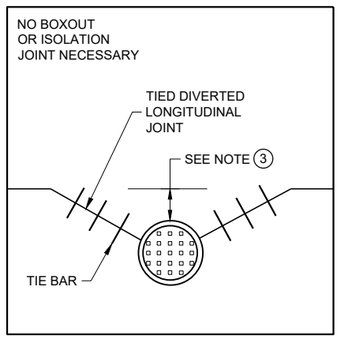
MANHOLE WITH TRANSVERSE JOINT



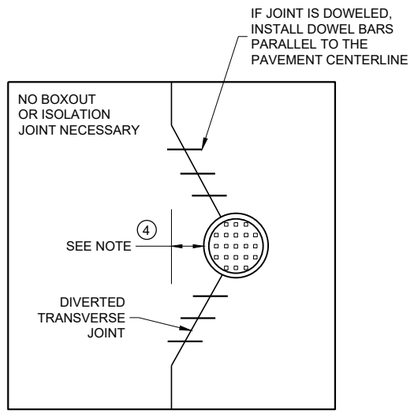
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

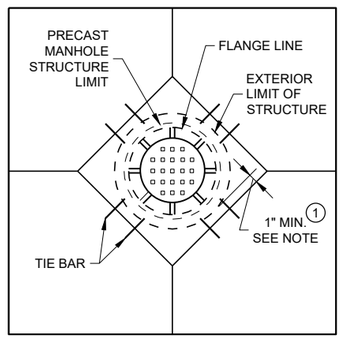
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVISO

FHWA

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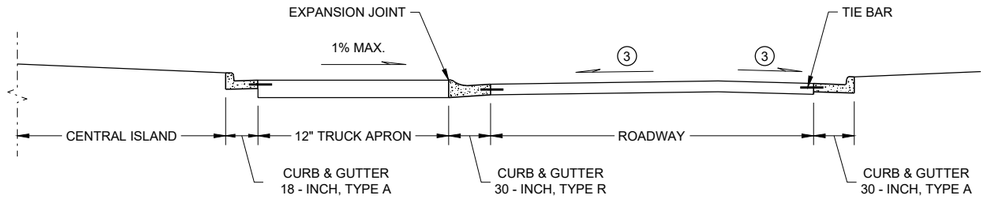
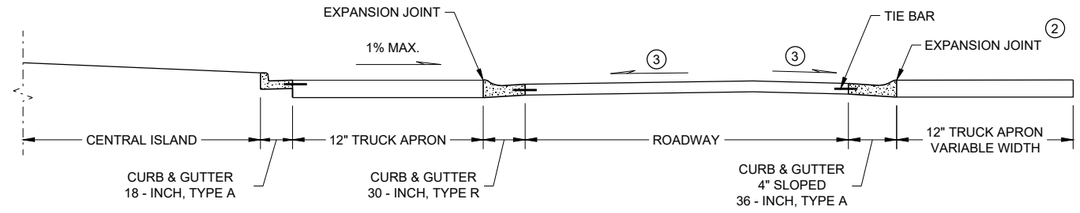
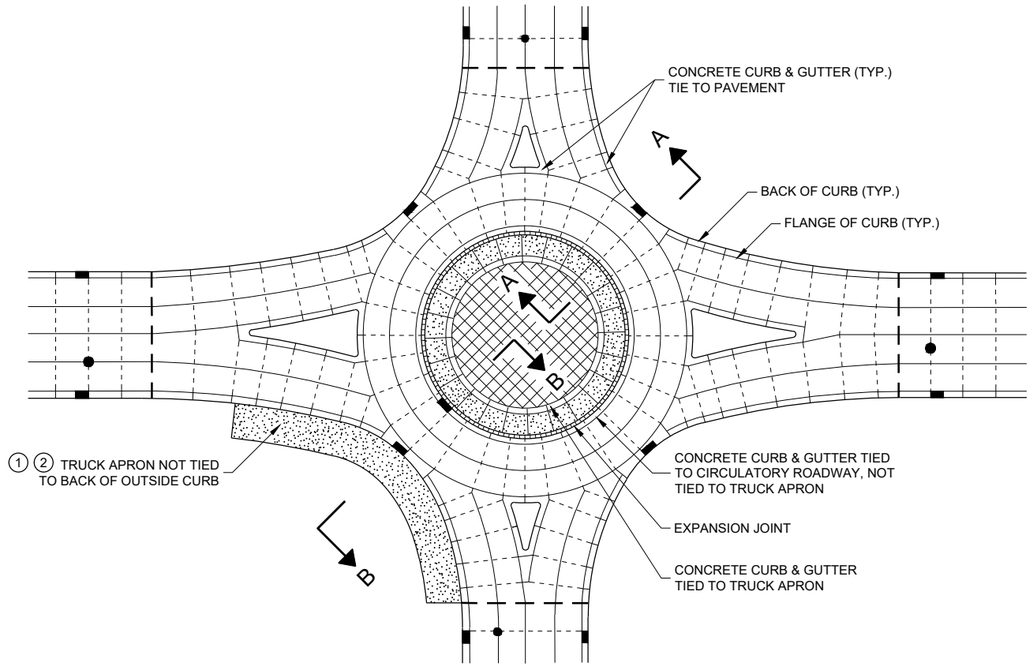


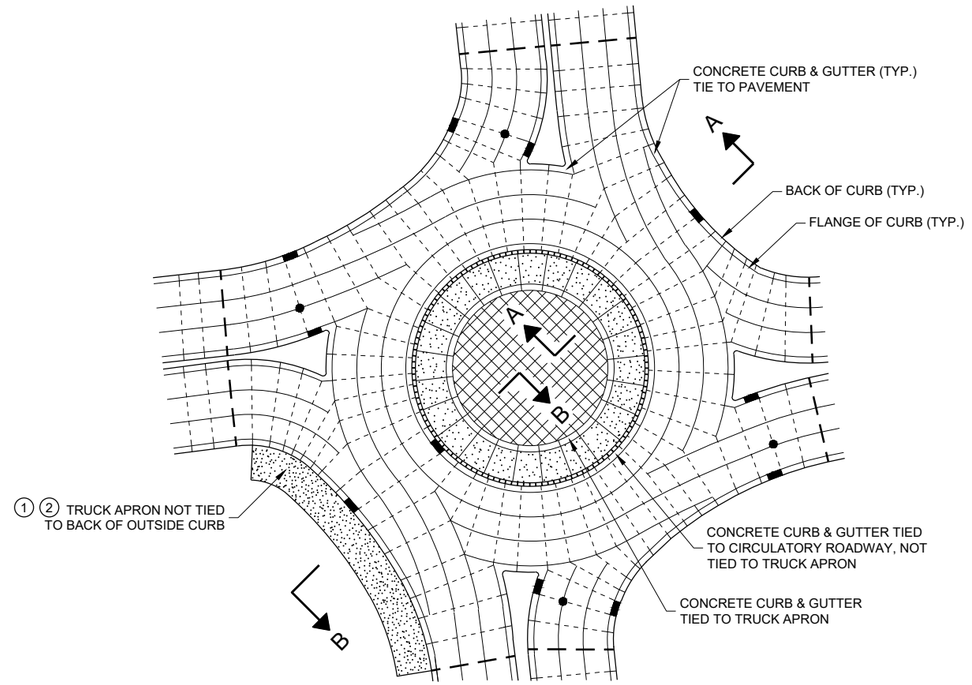
SECTION A - A



SECTION B - B



ISOLATED CIRCLE JOINT LAYOUT FOR ROUNDABOUTS



PINWHEEL JOINT LAYOUT FOR ROUNDABOUTS

GENERAL NOTES

MAXIMUM JOINT SPACING IS IN ACCORDANCE WITH THE TABLE SHOWN ON SDD 13C18 - SHEET "a"

USE EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.

DO NOT DOWEL OR TIE THE TRUCK APRON TRANSVERSE JOINTS.

(1) DESIGNER DETERMINES SIZE AND LOCATION(S) OF TRUCK APRON TO ACCOMODATE TRACKING OF OVERSIZE / OVERWEIGHT VEHICLES.

(2) TIE THE OUTSIDE TRUCK APRON TO THE BACK SIDE OF CURB ONLY WHEN ENTIRE TRUCK APRON IS LESS THAN 3 FEET.

(3) CONFORM TO PLAN CONSTRUCTION DETAILS FOR CIRCULATORY ROADWAY CROSS SLOPE.

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT
- TRUCK APRON
- CENTRAL ISLAND
- UTILITY STRUCTURES

CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

FHWA

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SDD 13C18 - 07e

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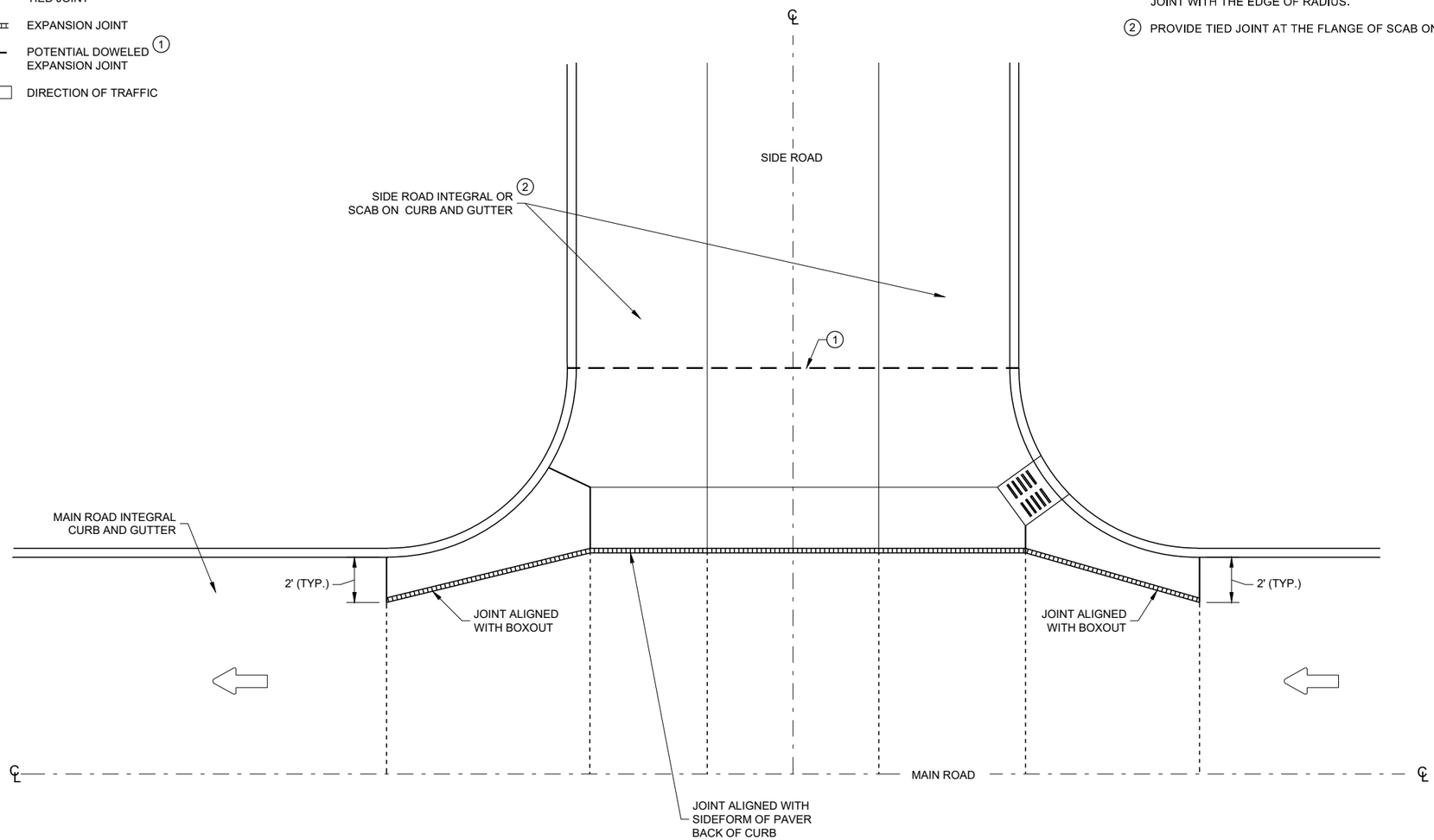
SDD 13C18 - 07e

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT (1)
- DIRECTION OF TRAFFIC



GENERAL NOTES

(1) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH THE EDGE OF RADIUS.

(2) PROVIDE TIED JOINT AT THE FLANGE OF SCAB ON CURB IF SCAB ON CURB AND GUTTER IS USE.

INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
ROADWAY STANDARDS DEVE ENGINEER

FHWA

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SDD 13C18 - 07f

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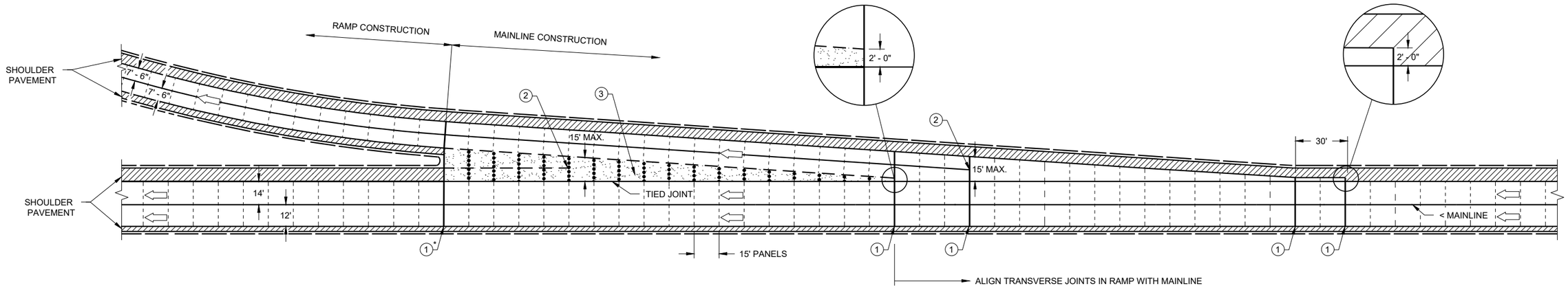
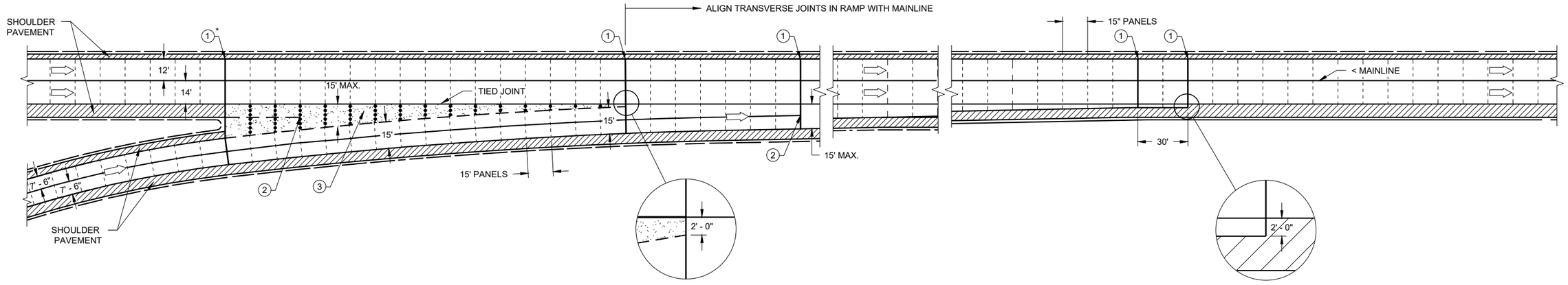
SDD 13C18 - 07f



DECELERATION LANE



ACCELERATION LANE

GENERAL NOTES

PAVEMENT AND BASE THICKNESS, PANEL LENGTHS, JOINTS AND REINFORCEMENT FOR THE DECELERATION AND ACCELERATION LANES, INCLUDING TAPERS, SHALL BE THE SAME AS THE MAINLINE, EXCEPT WHERE OTHERWISE NOTED.

ALL REINFORCEMENT BARS SHALL BE EPOXY COATED CONFORMING TO SUBSECTION 505.2.6 OF THE STANDARD SPECIFICATIONS.

LANE AND SHOULDER WIDTHS MAY VARY FROM SHOWN. SEE CONSTRUCTION PLANS FOR ACTUAL PROPOSED WIDTHS.

(1) CRITICAL TRANSVERSE JOINT LOCATIONS AT PAVEMENT WIDTH CHANGES. ((1)* IS NOT A CRITICAL TRANSVERSE JOINT WHEN ASPHALTIC GORE IS INSTALLED).

(2) STOP LONGITUDINAL JOINT WITH CORE HOLE (2" TYP.) WHEN IT MEETS THE FIRST TRANSVERSE JOINT LESS THAN 15' WIDE OR STOP LONGITUDINAL JOINT WHEN IT MEETS 2' AWAY FROM THE TIED JOINT OF THE MAINLINE.

(3) DISREGARD THE JOINT DETAILS IN AND AROUND THE GORE WHEN ASPHALTIC GORE IS INSTALLED.

LEGEND

- DOWELED JOINT
- UNDOWELED JOINT
- TIED JOINT
- UNTIED JOINT
- GORE
- DIRECTION OF TRAVEL

CONCRETE PAVEMENT JOINTING ACCELERATION/ DECELERATION LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018 — DATE
/S/ Peter Kemp P.E. — ROADWAY STANDARDS DEVE ENGINEER
FHWA

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SDD 13C18 - 07g

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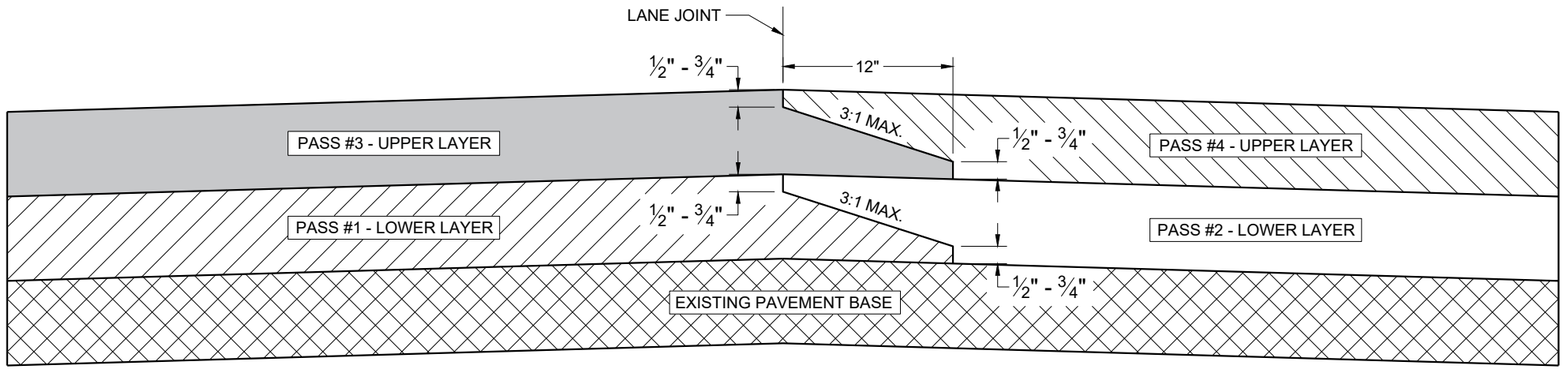
SDD 13C18 - 07g

GENERAL NOTES

CONFORM TO STANDARD SPECIFICATION 450.3.2.8



TYPICAL PAVEMENT CROSS SECTION
OF NOTCHED WEDGE LONGITUDINAL JOINTS

6

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SDD 13C19 - 01

SDD 13C19 - 01

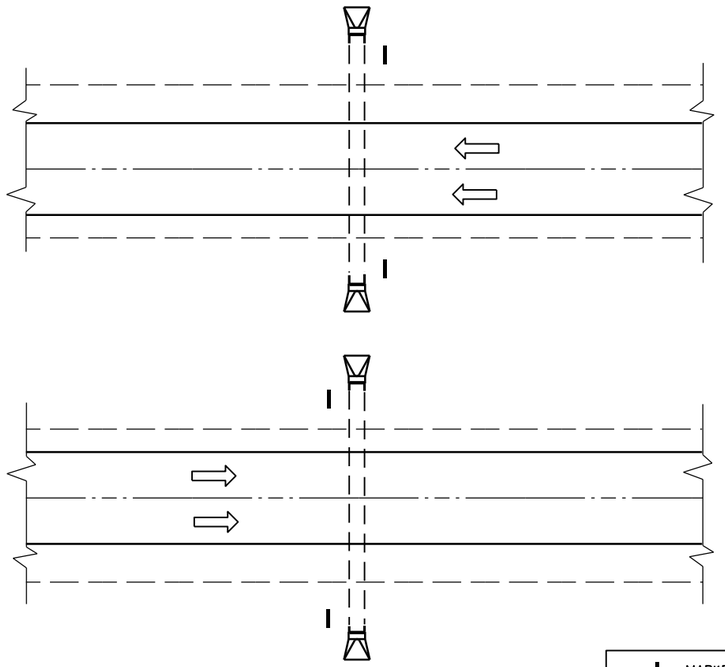
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

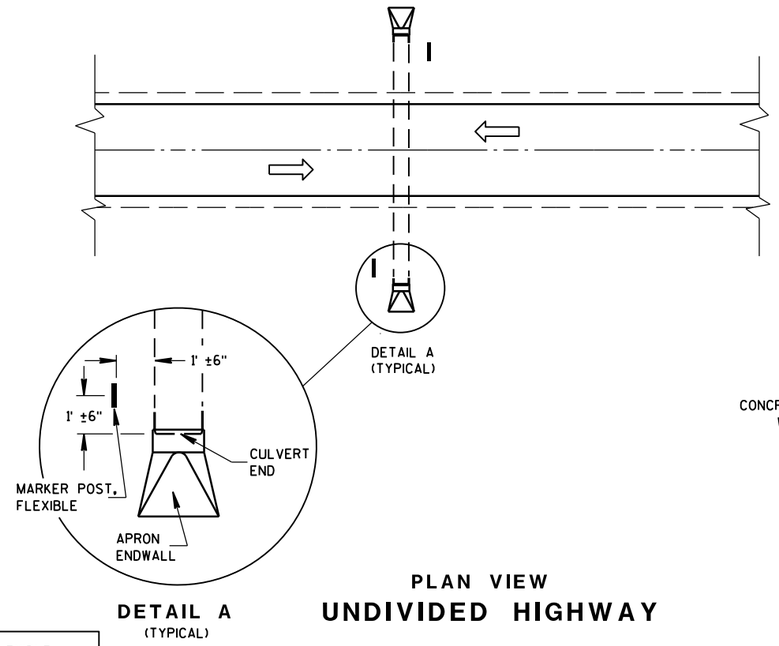
/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

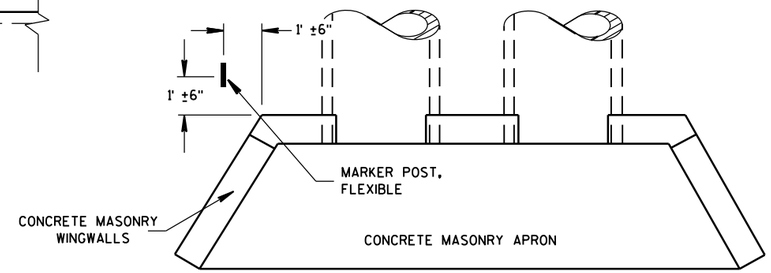
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

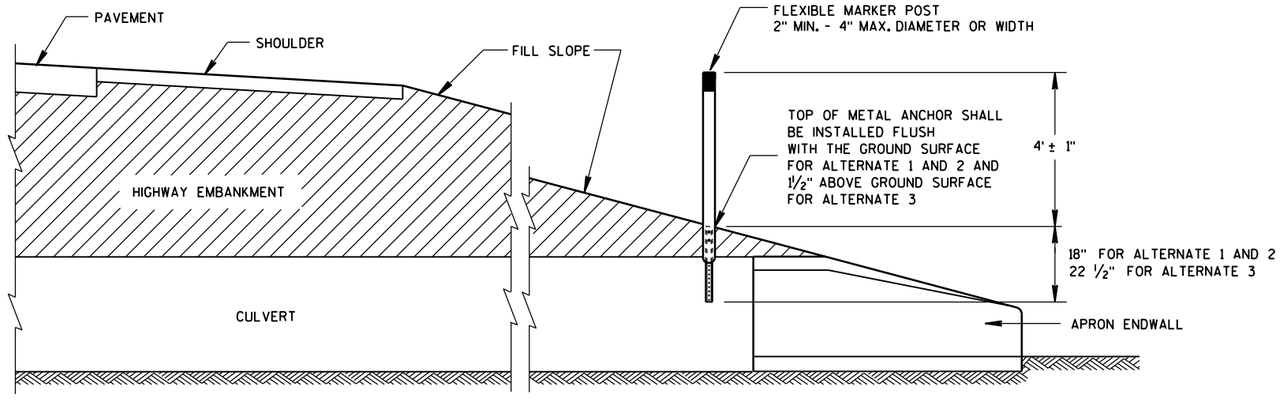
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 A 3-2a

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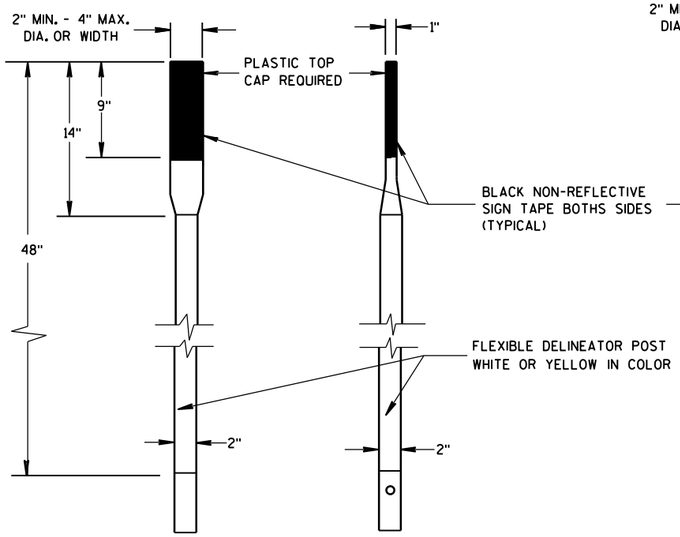
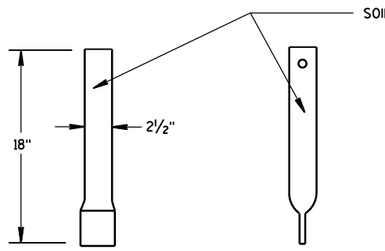
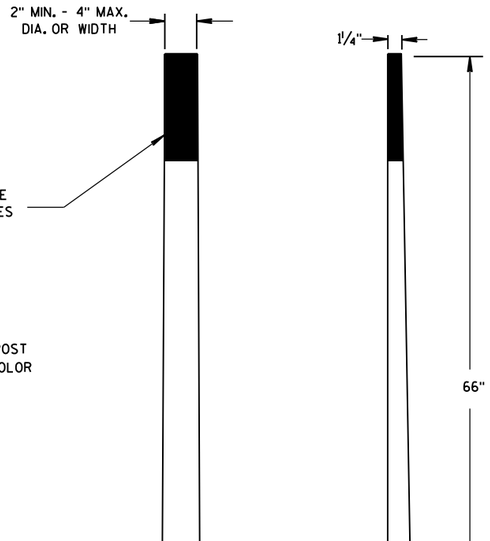




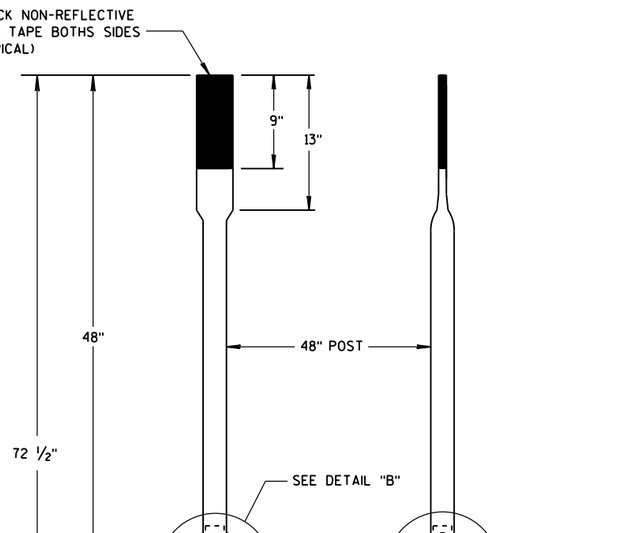
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

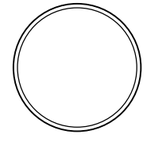
ALTERNATE 2



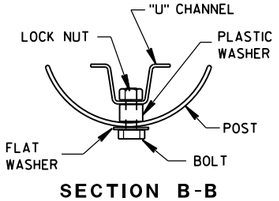
FRONT VIEW SIDE VIEW

ALTERNATE 3

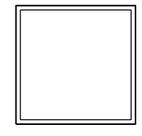
FLEXIBLE MARKER POSTS



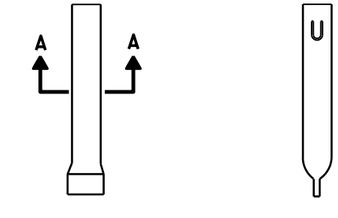
SECTION A-A



SECTION B-B

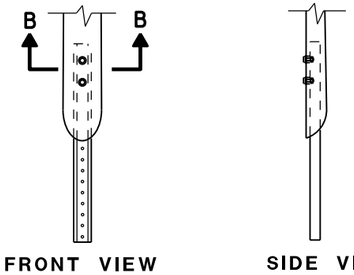


SECTION C-C



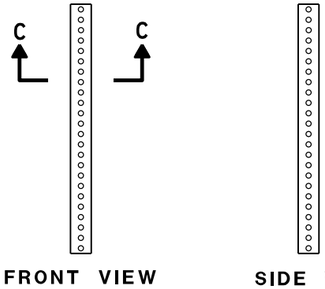
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

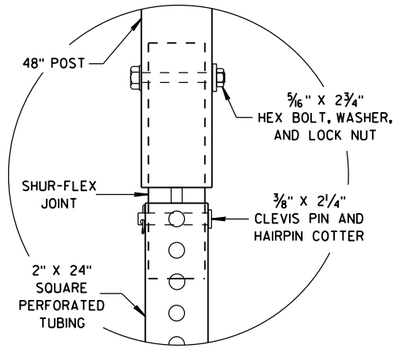
ALTERNATE 2



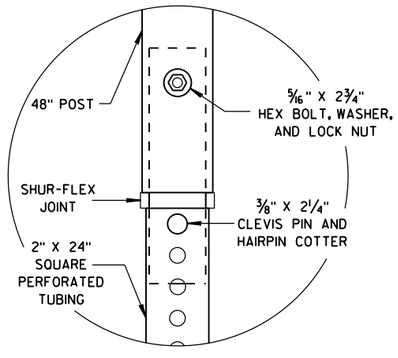
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

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S.D.D. 15 A 3-2b

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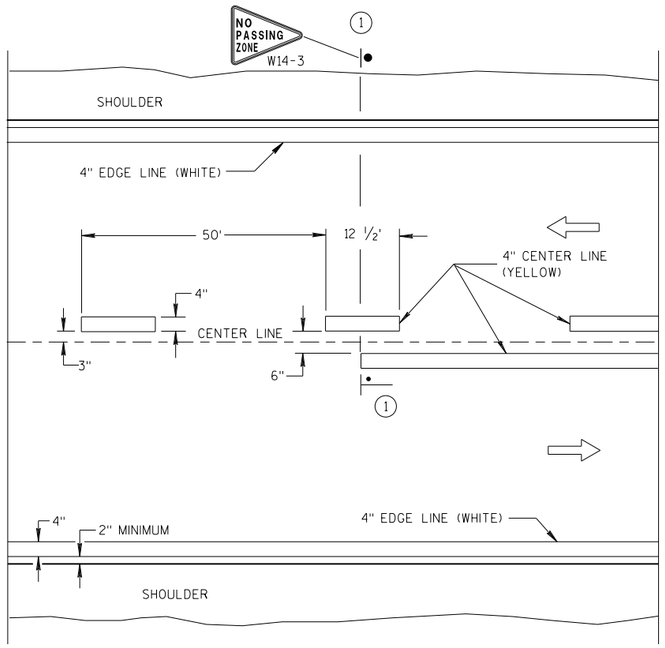
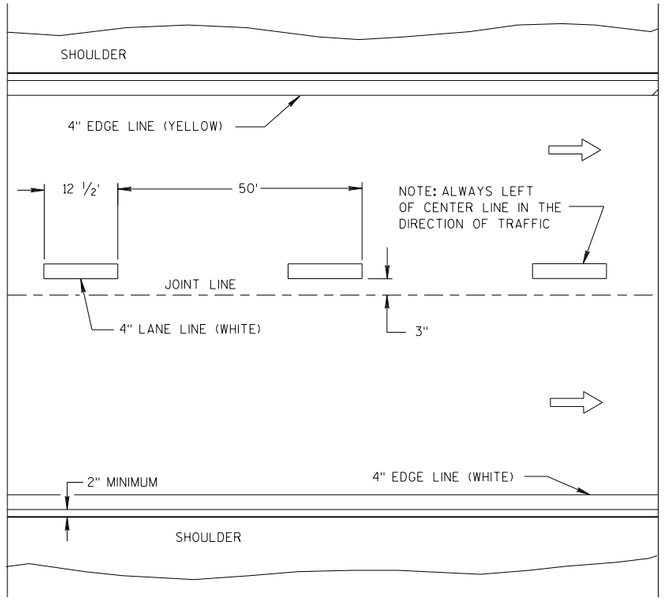
S.D.D. 15 A 3-2b



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

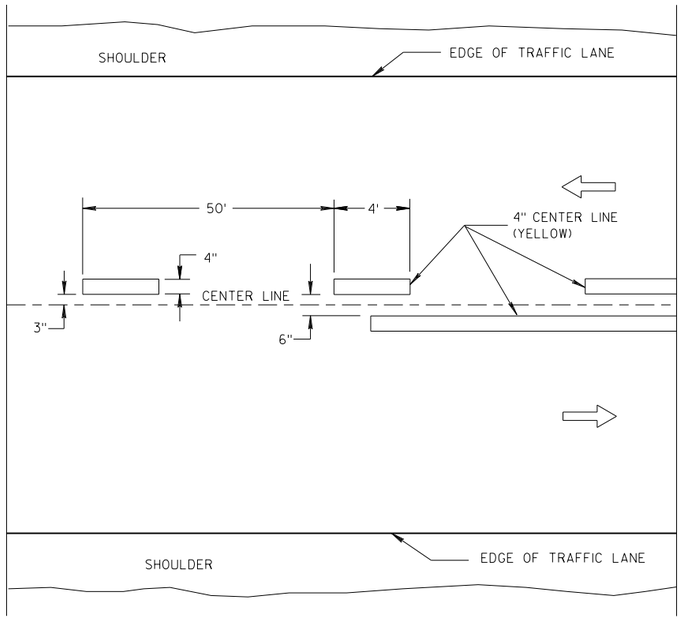
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

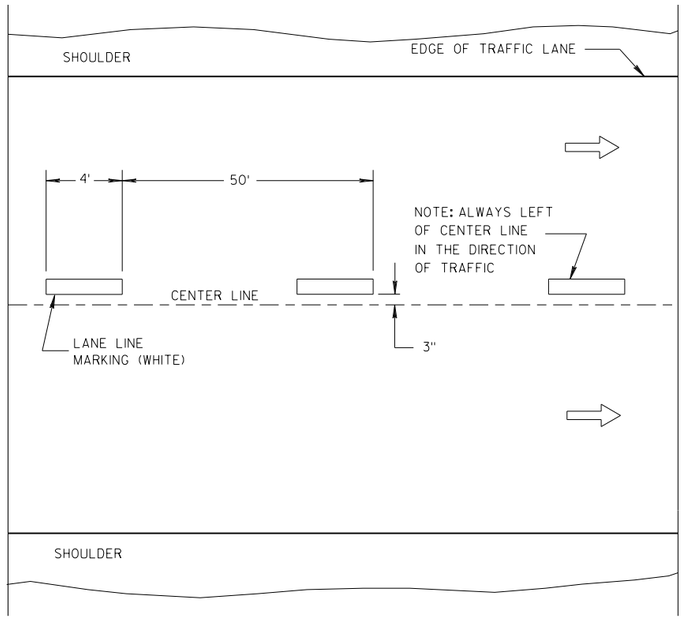
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

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S.D.D. 15 C 8-19a

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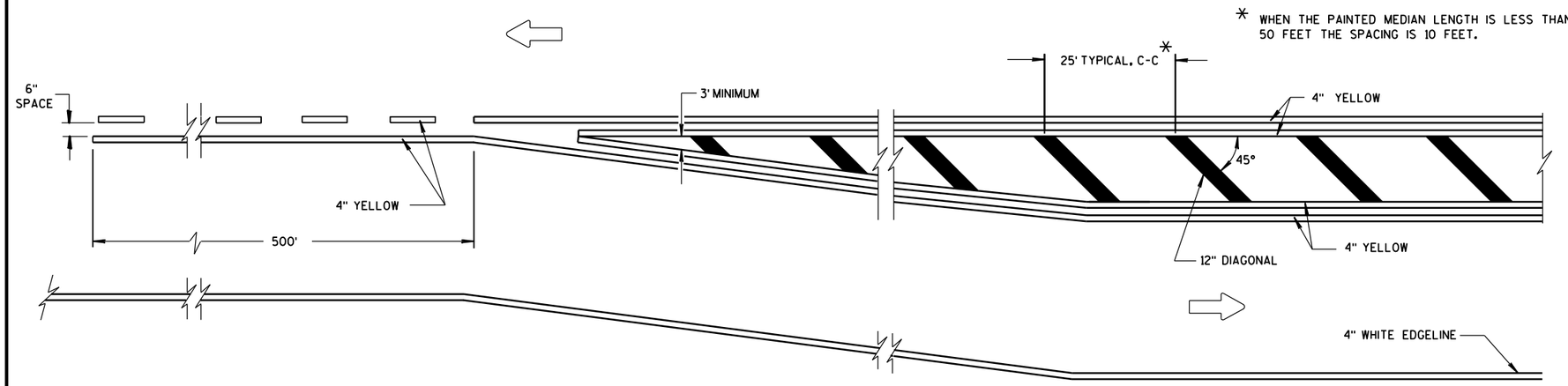
S.D.D. 15 C 8-19a

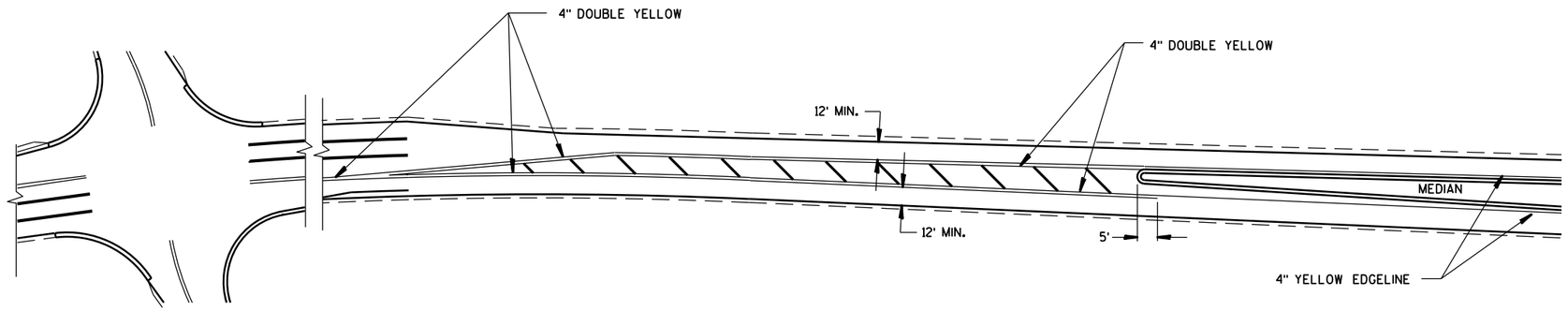


MEDIAN ISLAND DETAIL

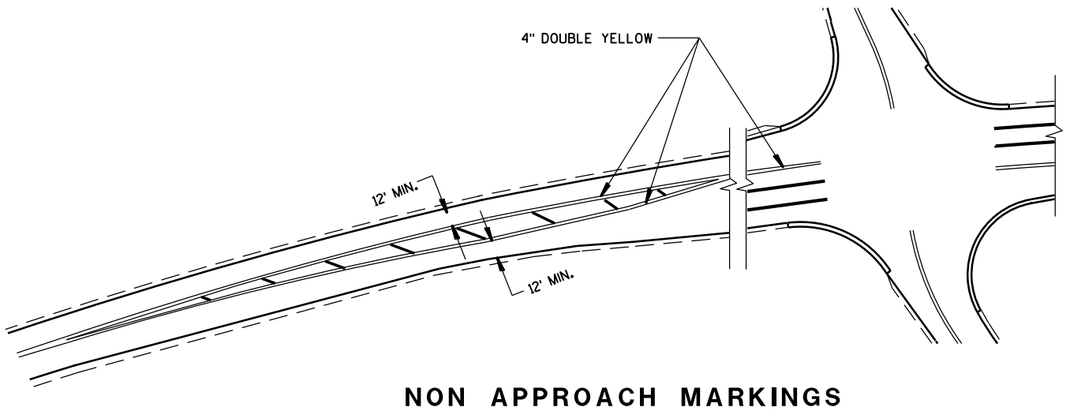
GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE FHWA	/S/ Matthew Rauch STATE SIGNING AND MARK 143 EER

6

S.D.D. 15 C 18-4

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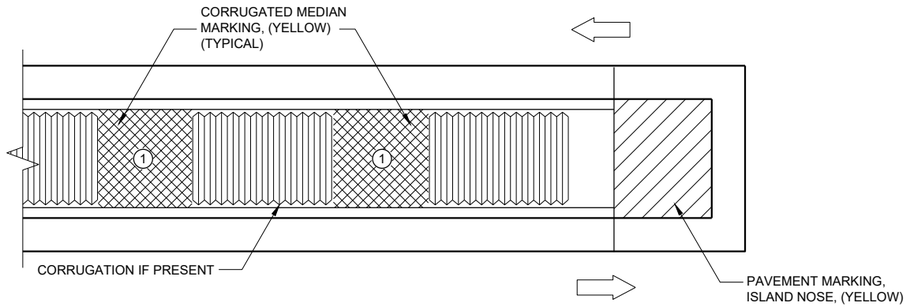
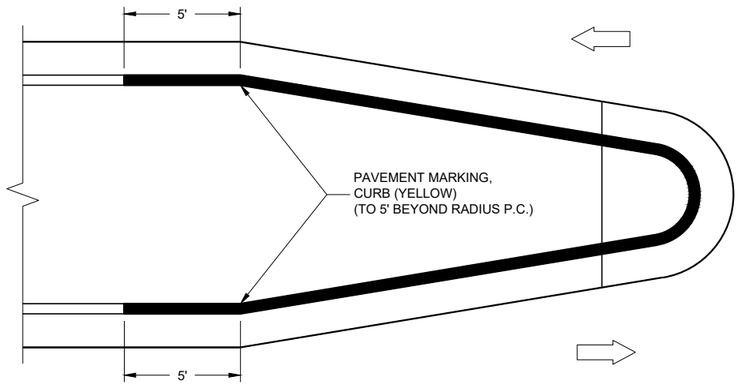
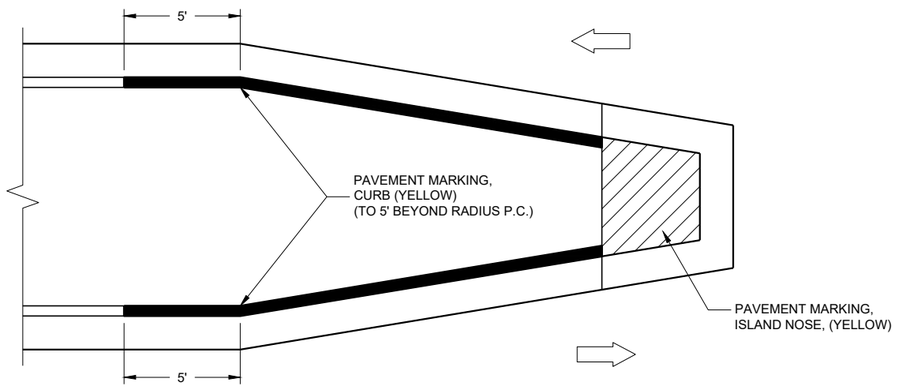
S.D.D. 15 C 18-4



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE

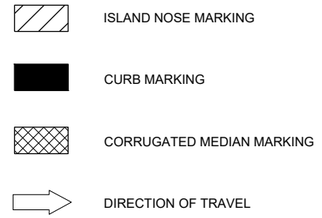


MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF
PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



PAVEMENT MARKINGS
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

6

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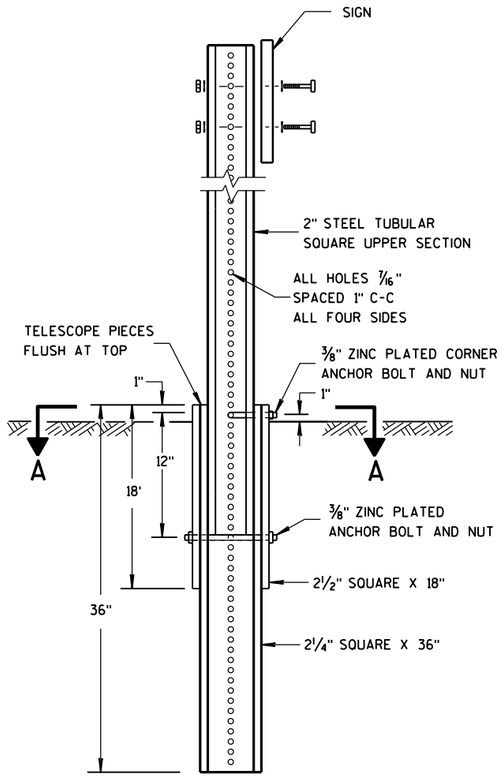
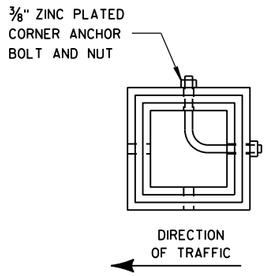
SDD 15C27 - 03b

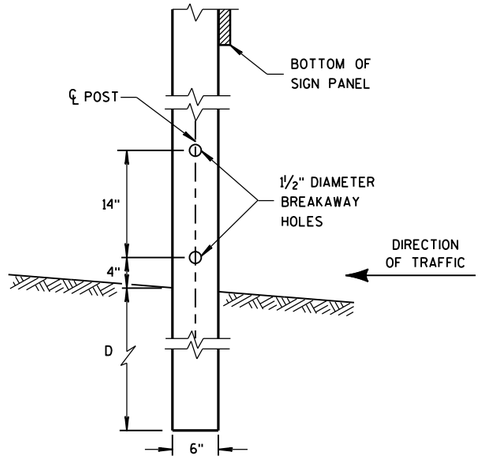
SDD15C27 - 03b



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



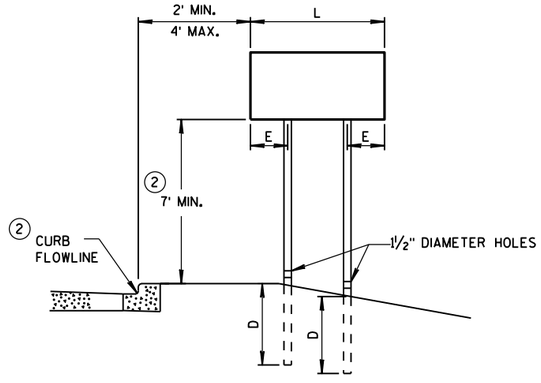
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

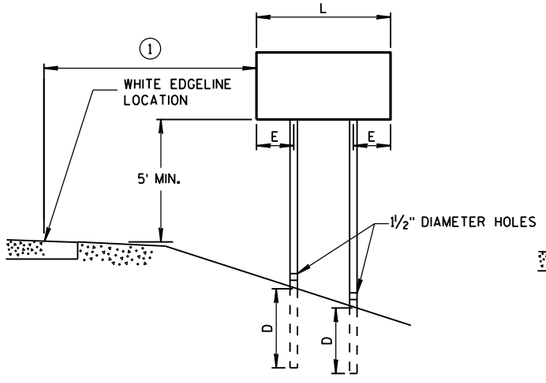
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

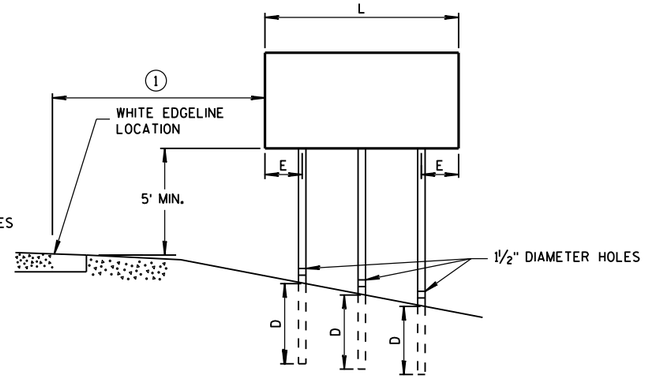
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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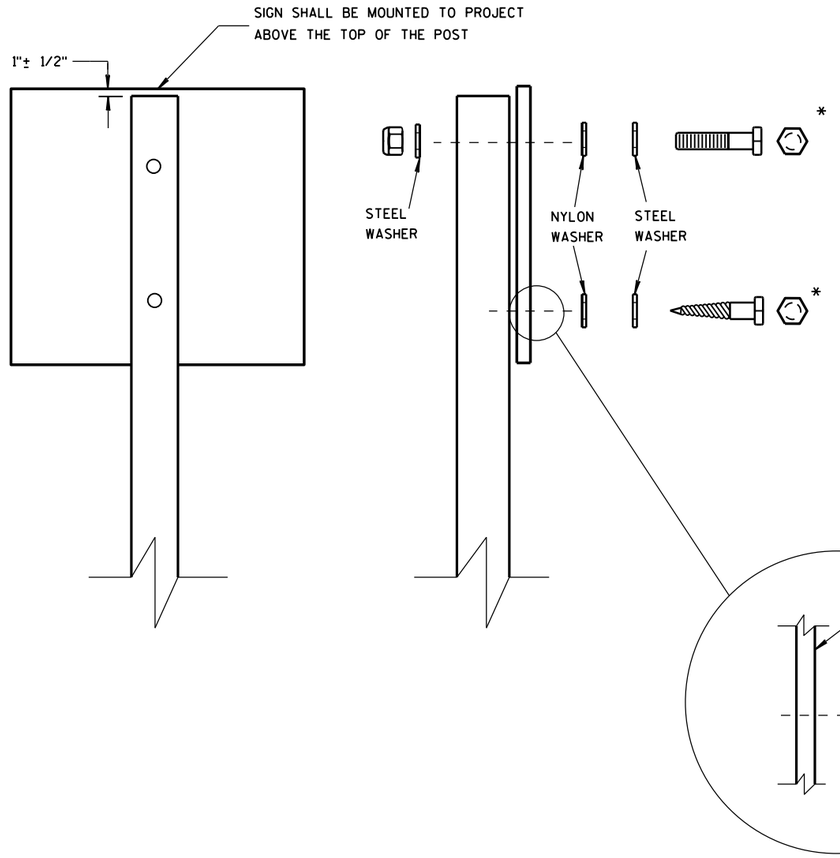
S.D.D. 15 D 38-2a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

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S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

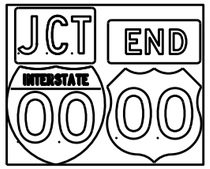
June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

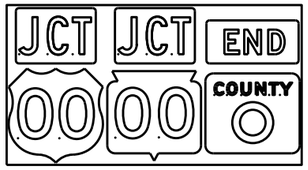
FHWA

TYPICAL ASSEMBLIES

J1-1

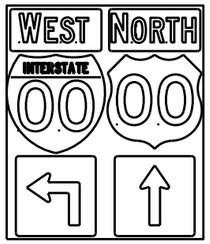


J1-2

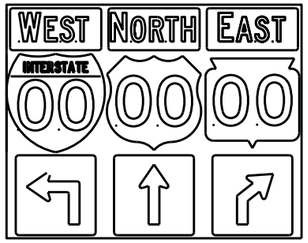


J1-3

J2-1



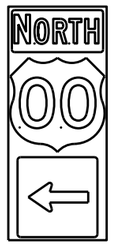
J2-2



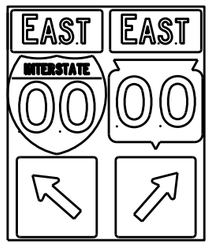
J2-3

JV

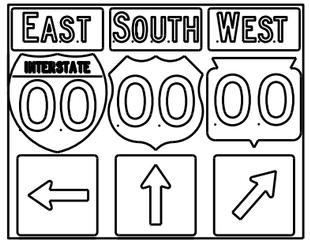
(Typical Vertical J-Assembly
See Note 10 and 11)



J3-1



J3-2



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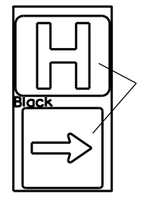
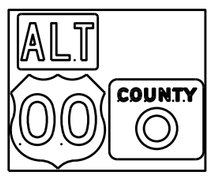


JH-1

J4-1



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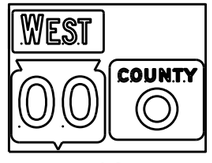

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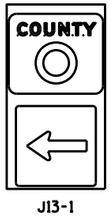


J13-1

J12-1

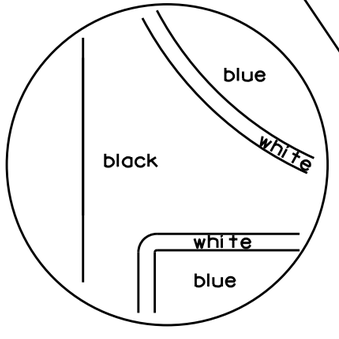
J32-1

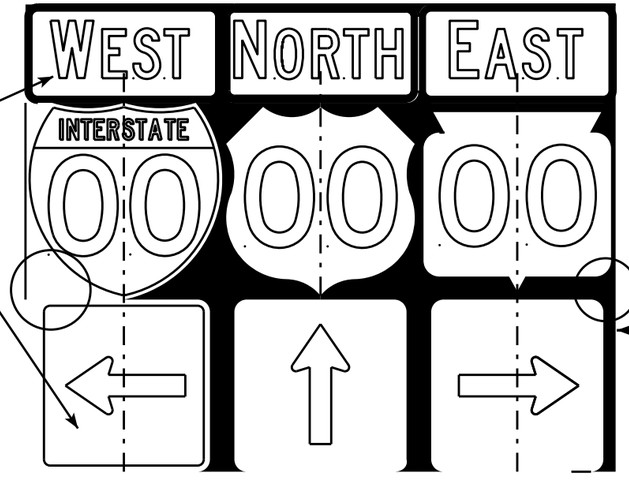
J33-1

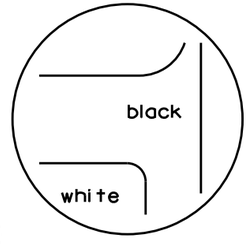
J23-1

J22-1

blue background
with interstate







black background

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

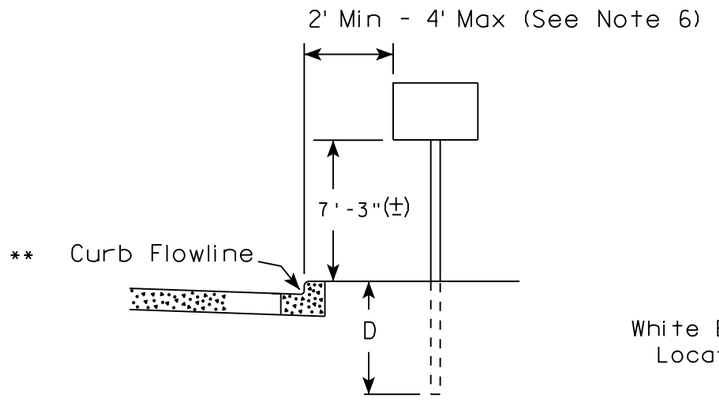
APPROVED Matthew R Rauch
for State Traffic Engineer

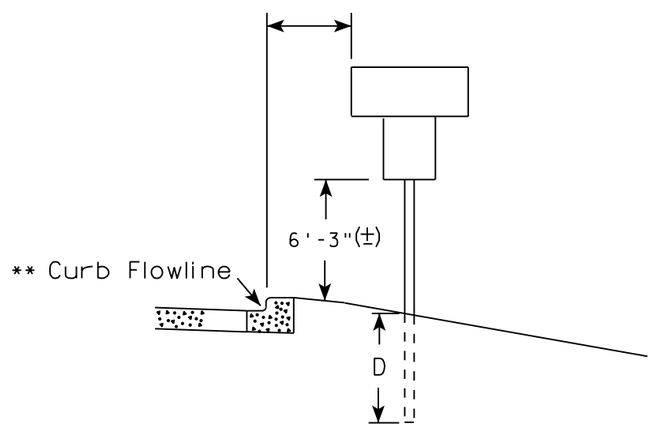
DATE 2/06/14 PL... A2-1S.8

PROJECT NO: | SHEET NO: E

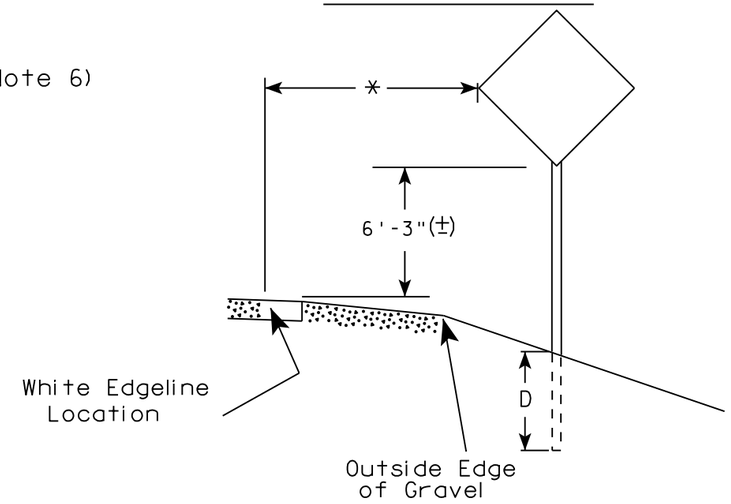
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :
WISDOT/CADDS SHEET 42

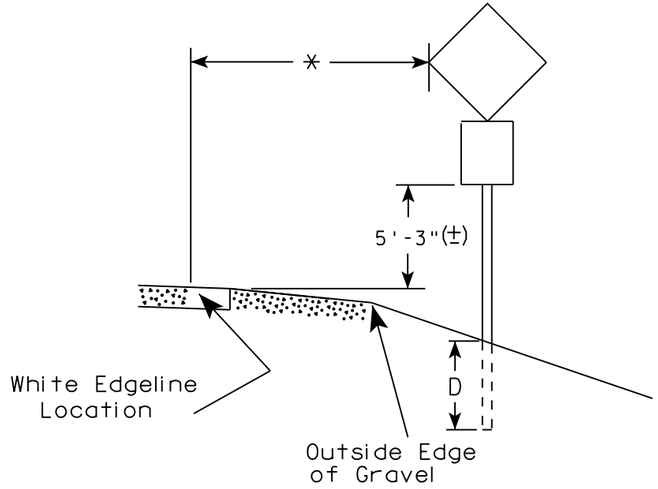
URBAN AREA





RURAL AREA (See Note 2)





GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

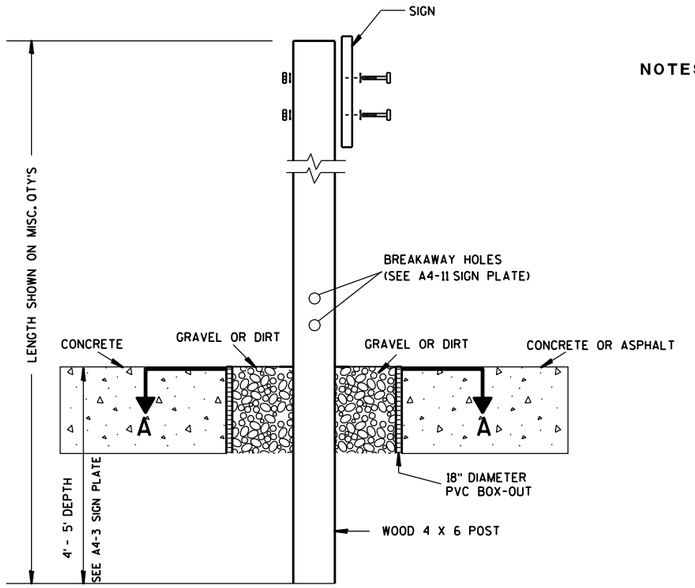
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

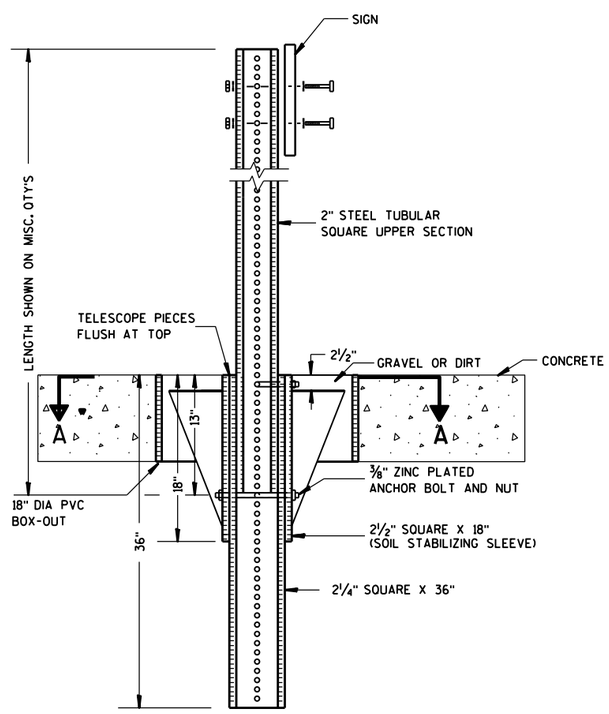
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 148	E



ELEVATION VIEW

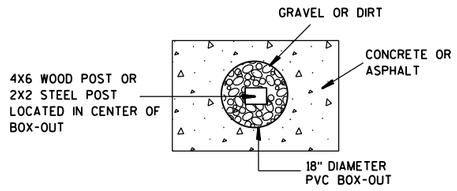
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

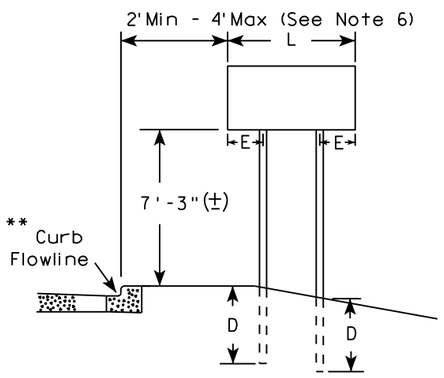
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

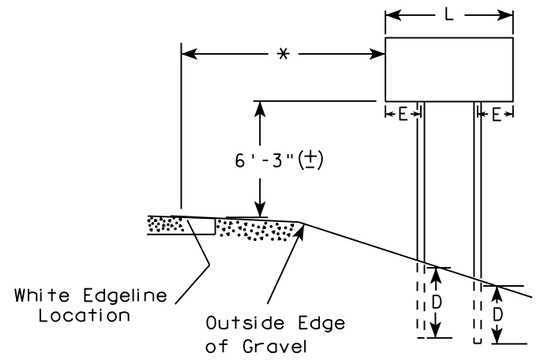
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

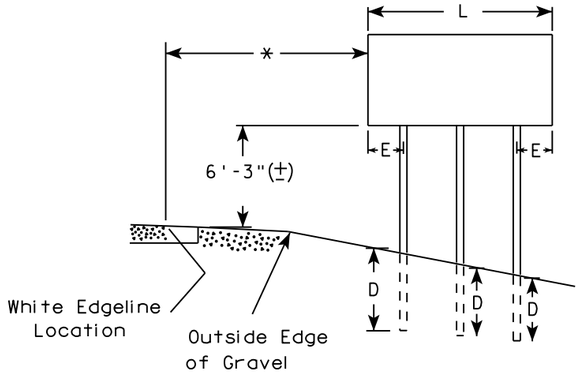
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

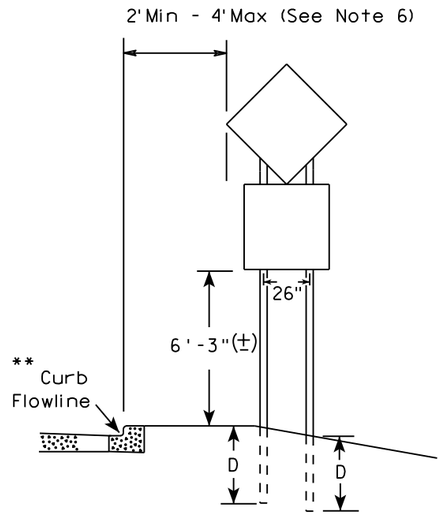
URBAN AREA



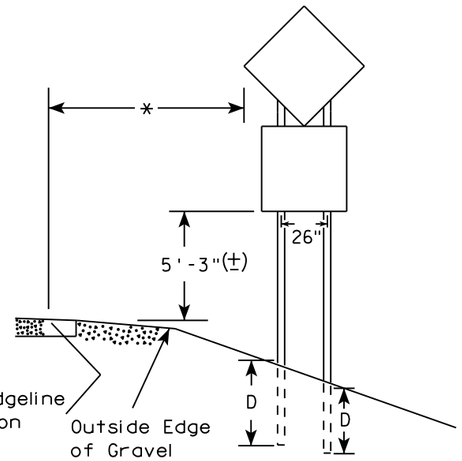
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

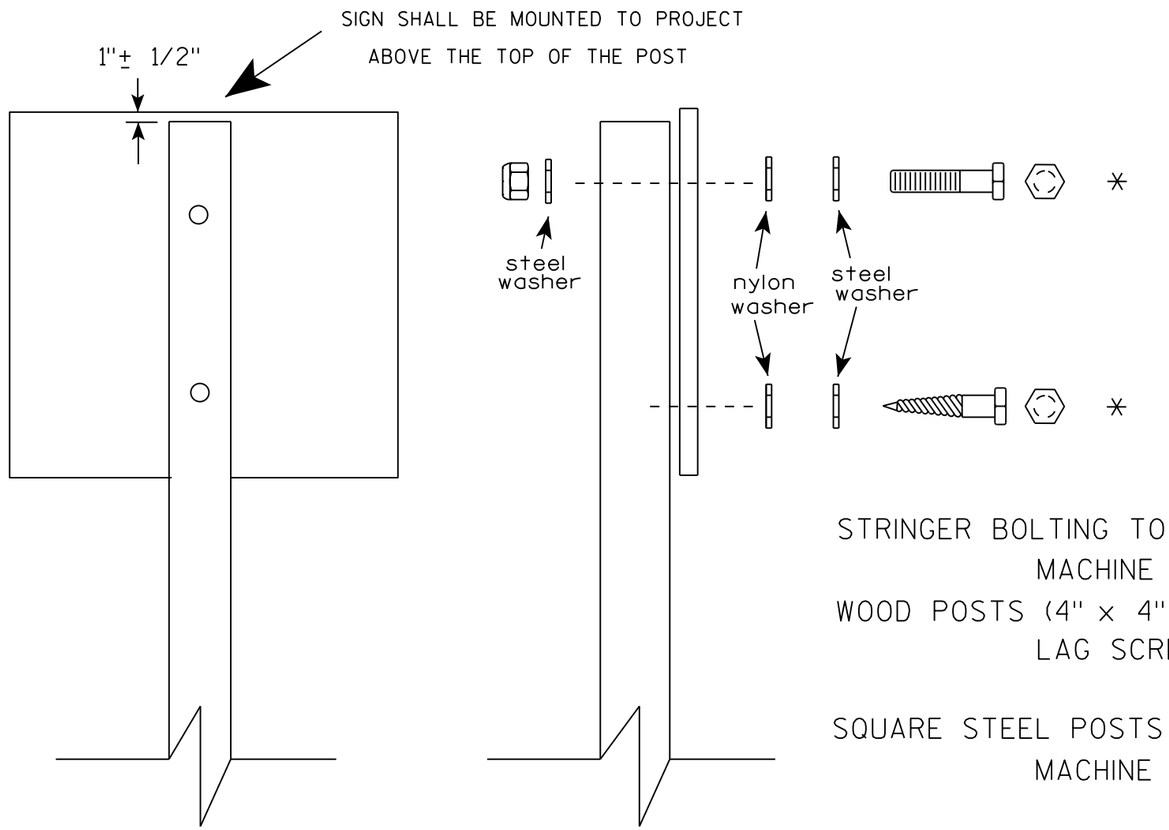
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 150	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/11/16 PLATE NO. A4-8.8

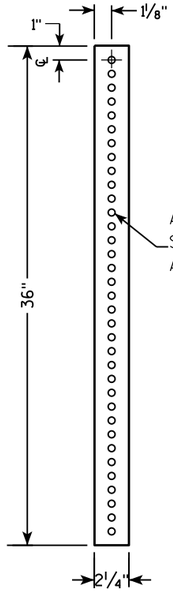
7

PROJECT NO: SHEET NO: E

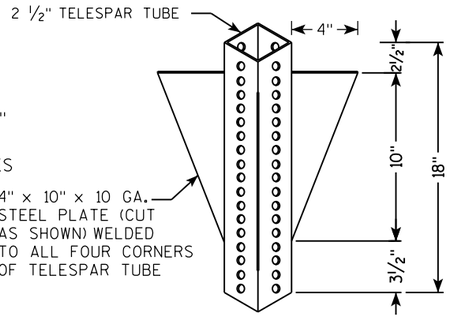
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

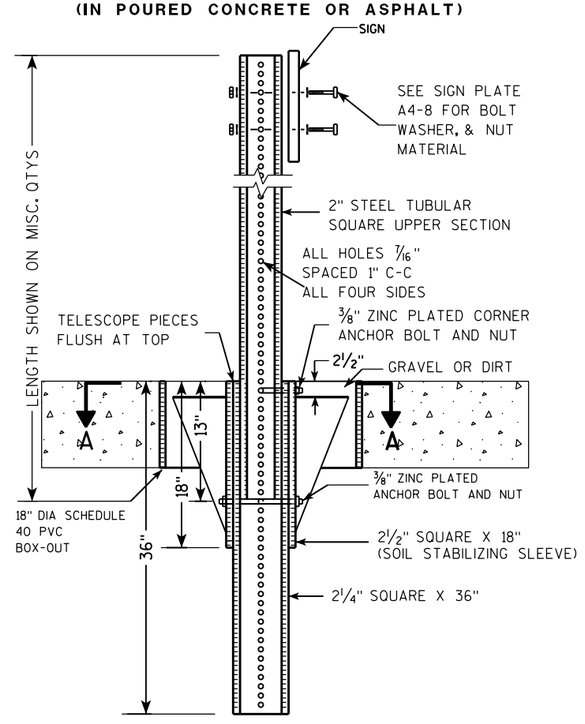
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



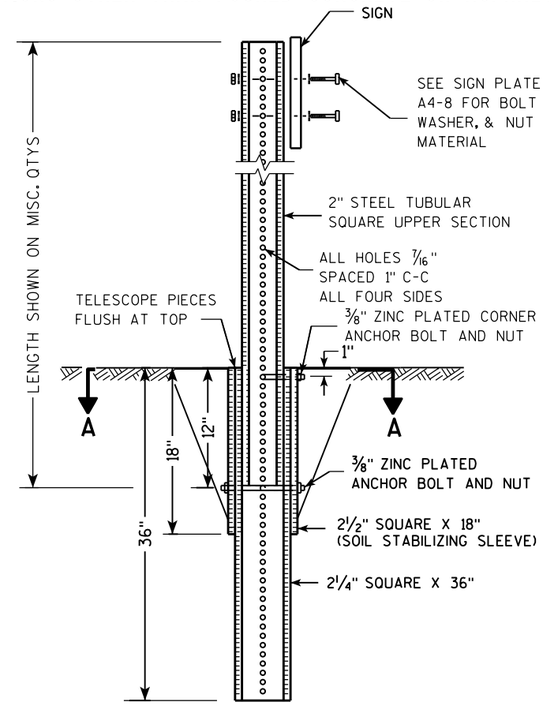
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

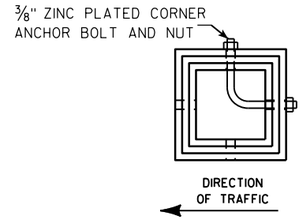


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

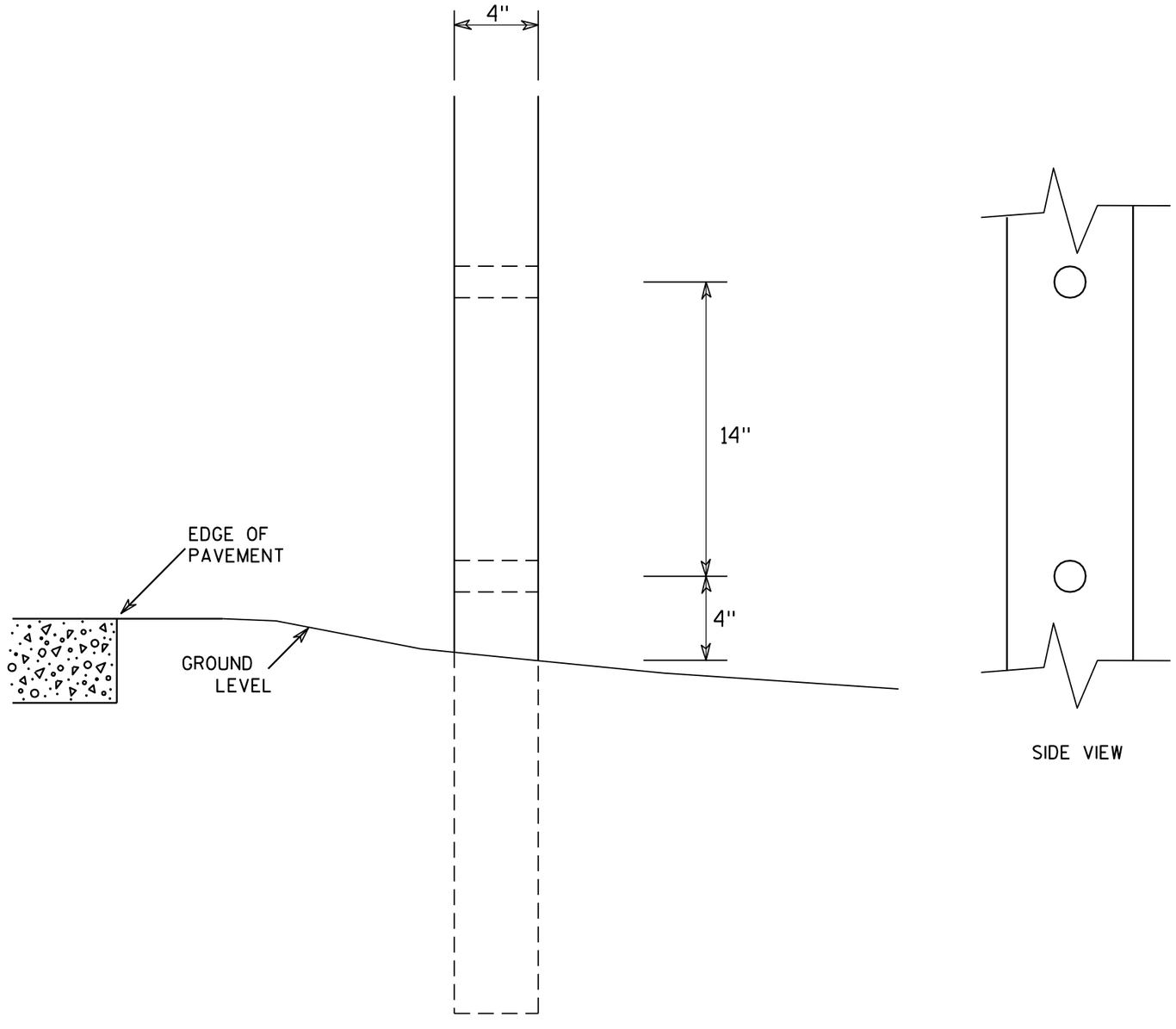
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

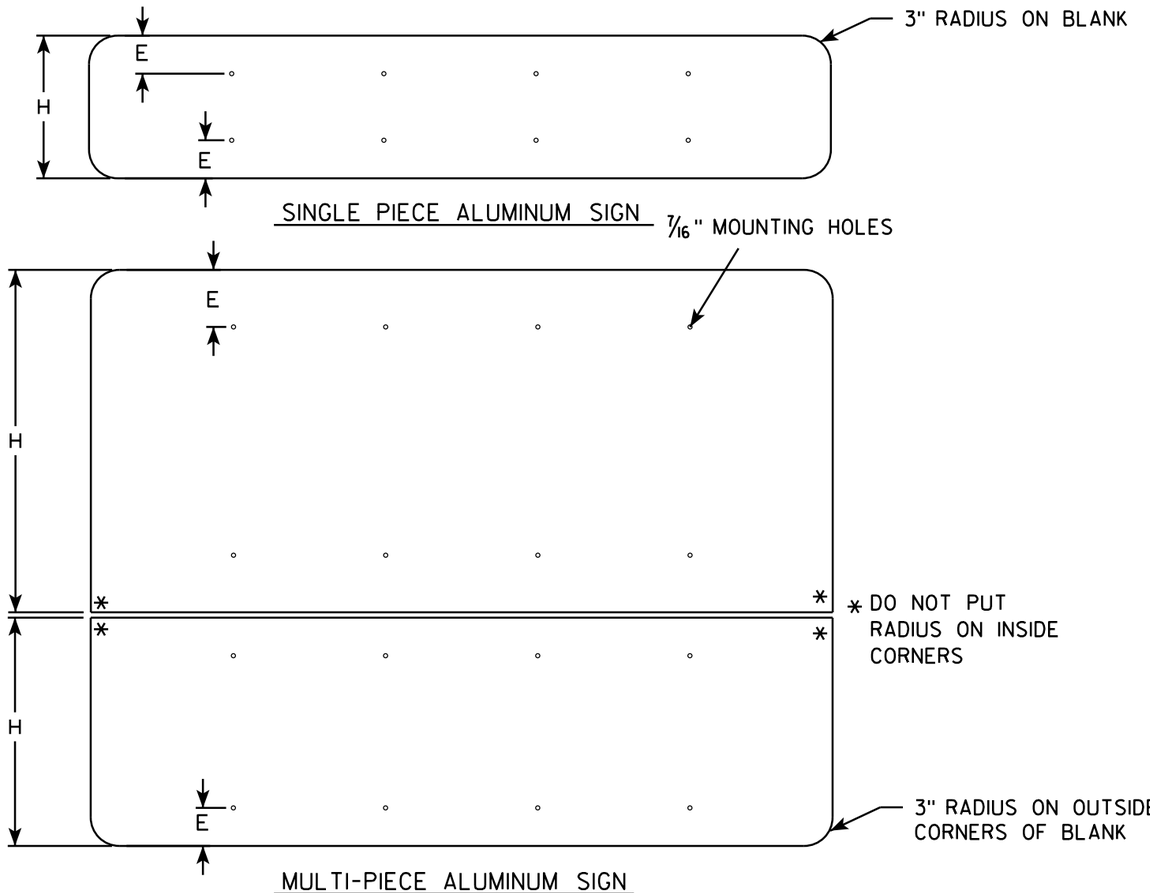
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

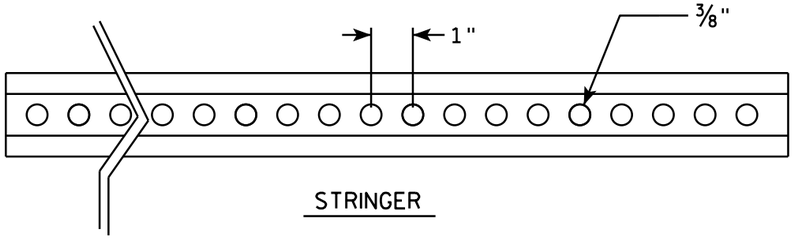
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 153	E



GENERAL NOTES

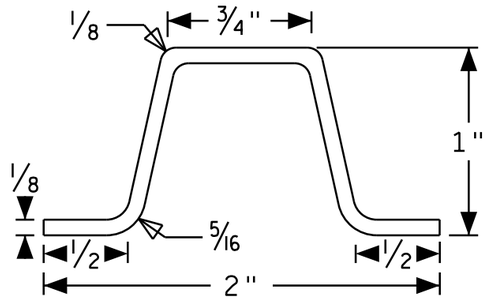
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

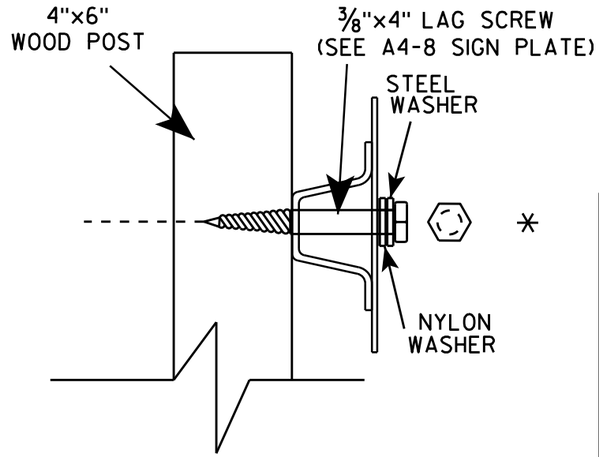


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

DATE 4/26/16 PLATE NO A4-18.1

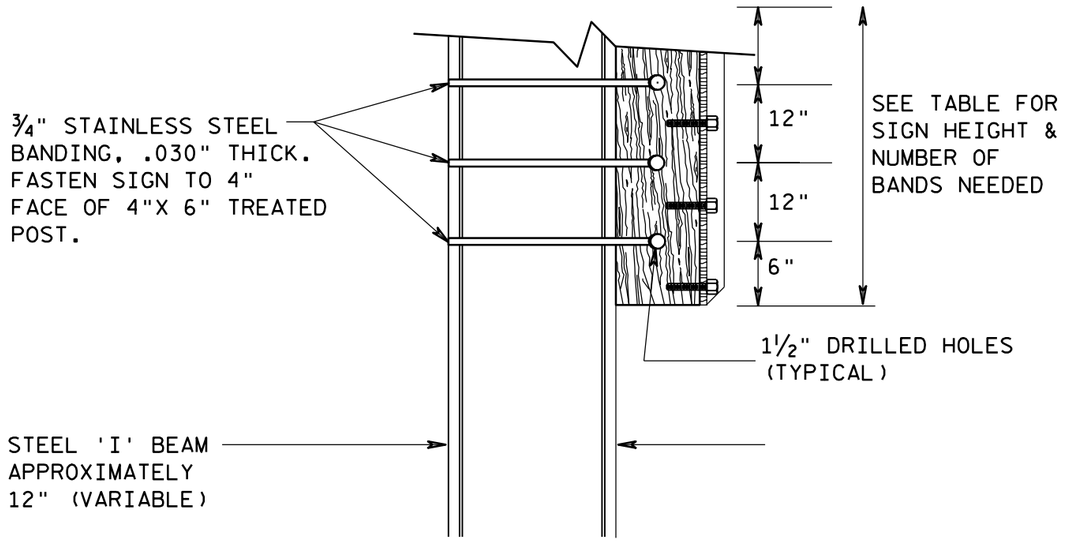
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

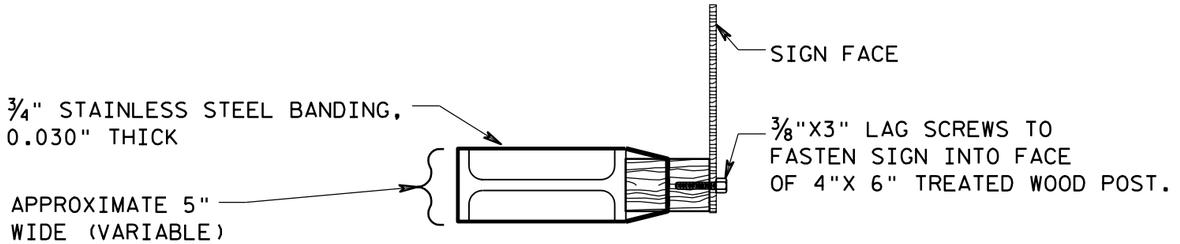
TYPE II SIGN MOUNTING ON STEEL I BEAMS

SIGN HEIGHT	NUMBER OF BANDS
24"	2
30"	2
36"	3
42"	3
48"	4
54"	4

SIGN HEIGHT	NUMBER OF BANDS
60"	5
66"	5
72"	6
78"	6
84"	7
90"	7



SIDE VIEW



TOP VIEW

TYPE II SIGN MOUNTING

WISCONSIN DEPT OF TRANSPORTATION

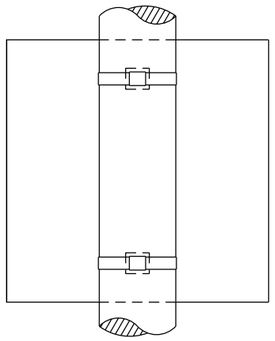
APPROVED Matthew R Rauch
for State Traffic Engineer

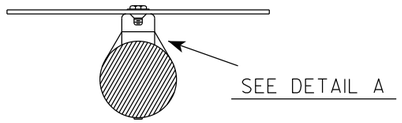
DATE 1/24/07 PLATE NO. A5-8.1

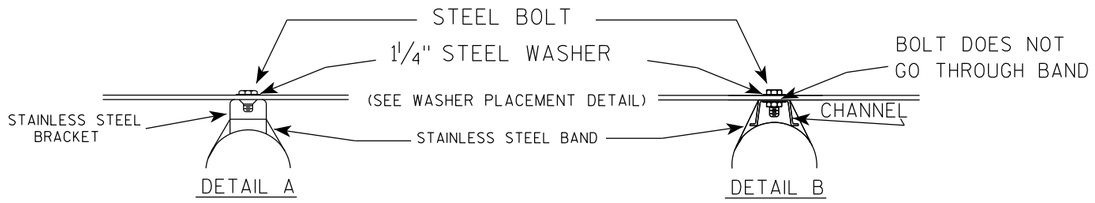
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 155	E

BANDING

SINGLE SIGN



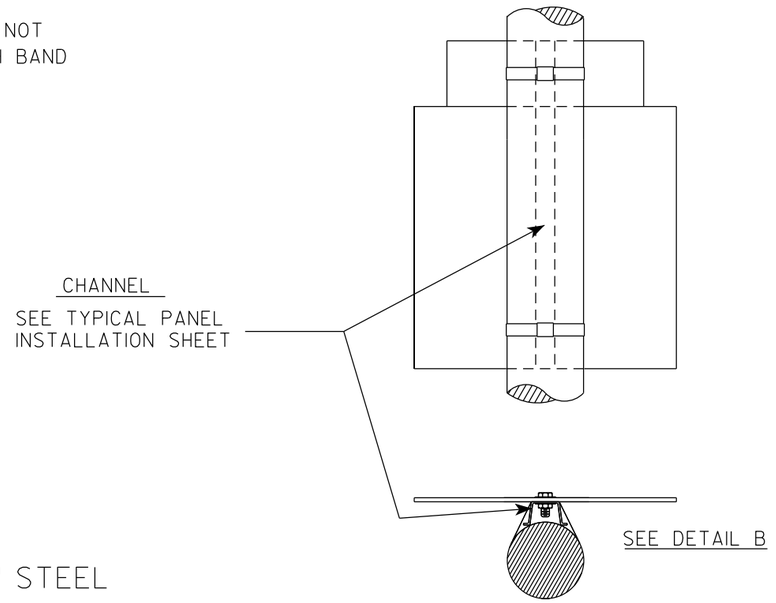




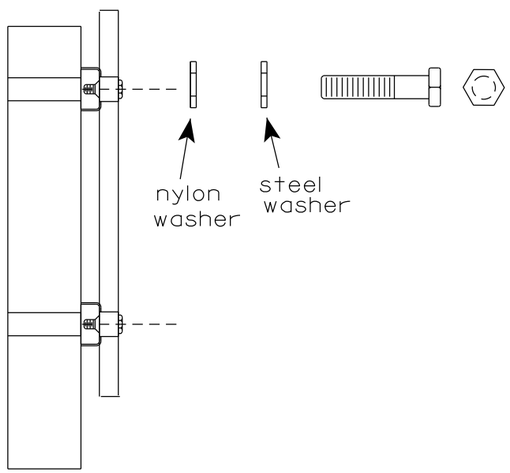
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

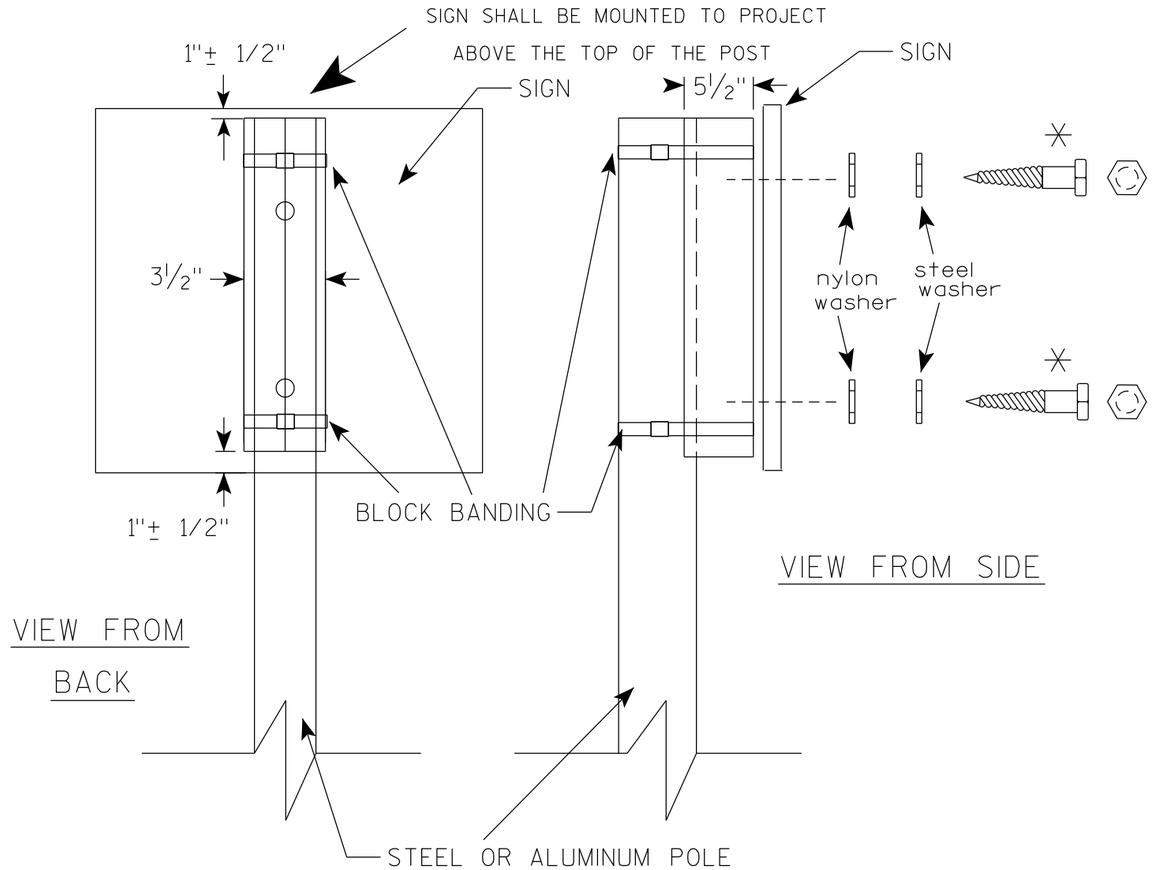
DATE 6/10/19 PLATE NO. A5-9.4

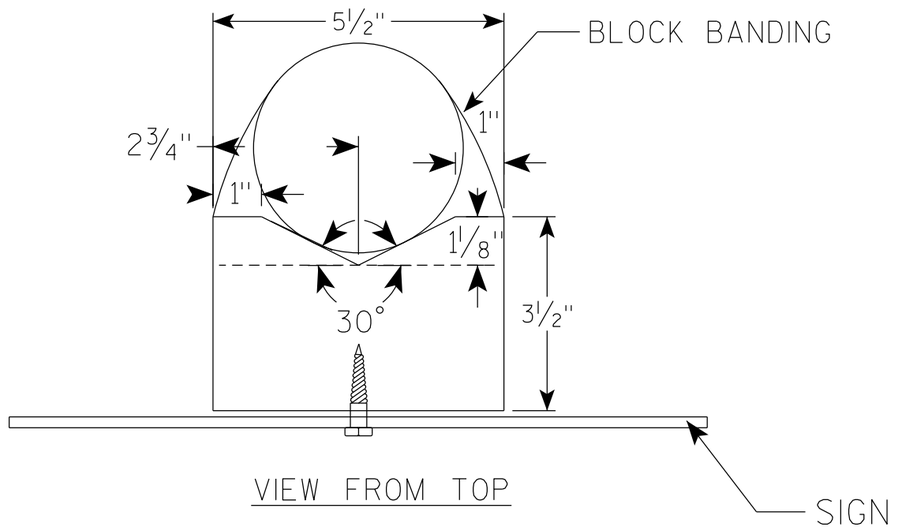
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 156	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

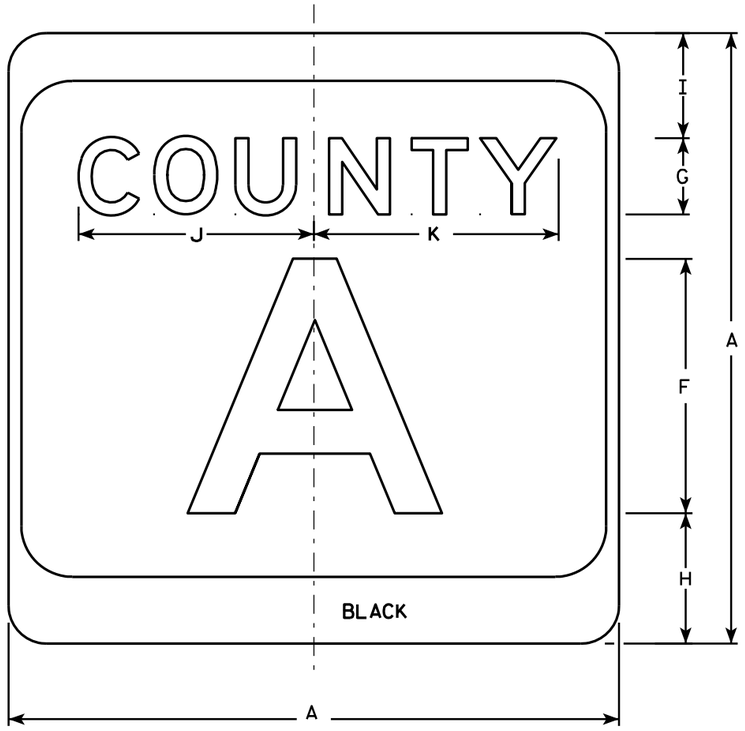
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

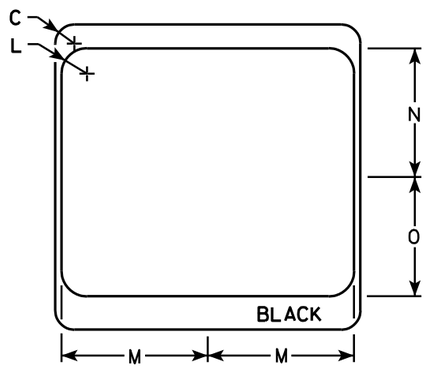
APPROVED Matthew R Rauch
For State Traffic Engineer

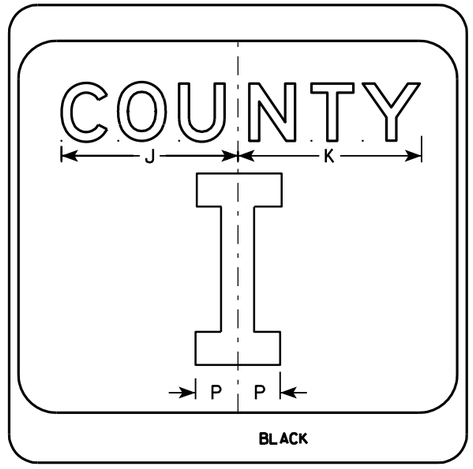
DATE 6/10/19 PLATE NO. A5-10.2

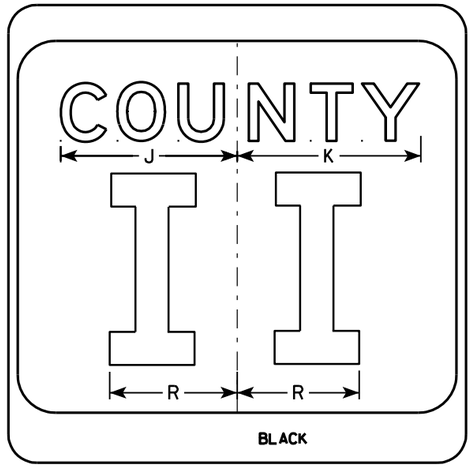
PROJECT NO:				SHEET NO: 157	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

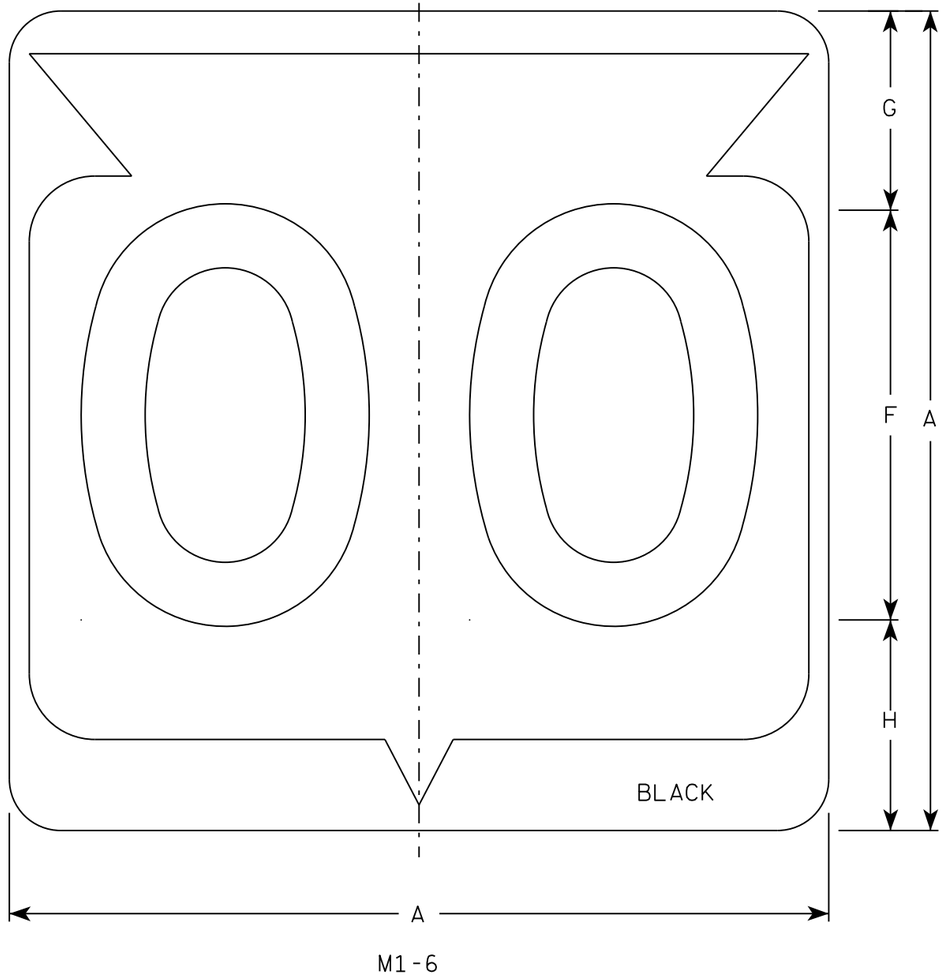
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

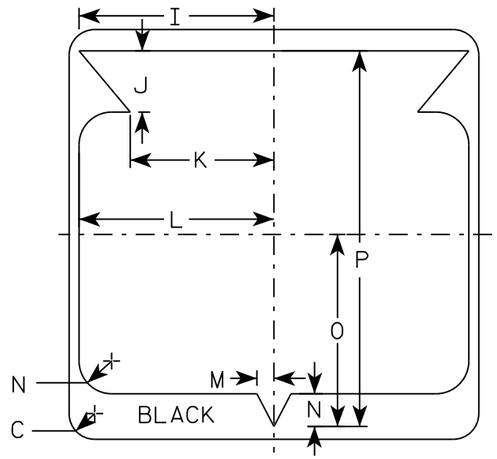
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 158	E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

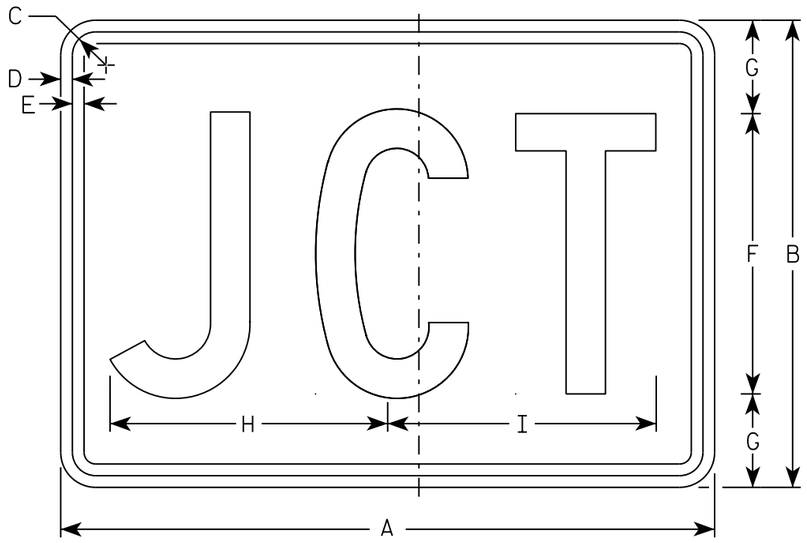
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

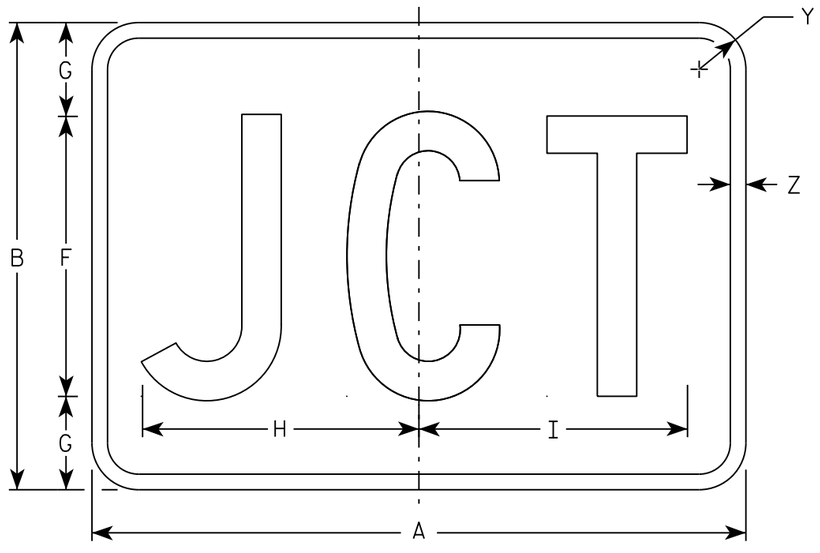
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 159	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

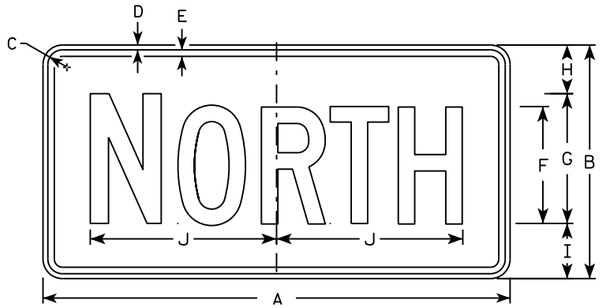
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

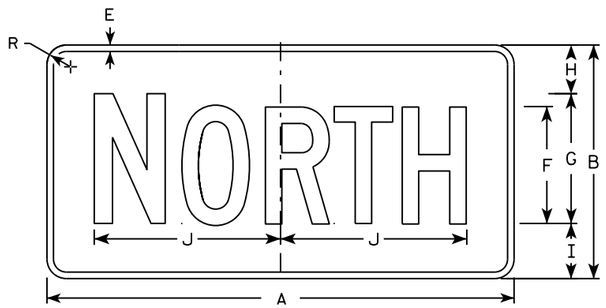
DATE 10/15/15 PLATE 160 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



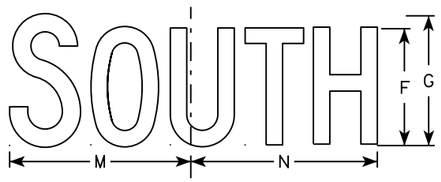
M3-1
MM3-1
MP3-1



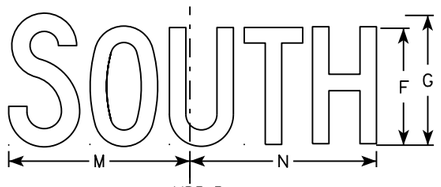
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

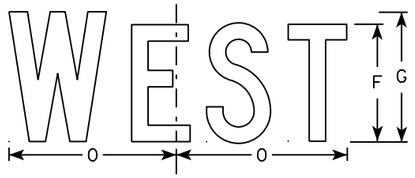
MB3-2
MK3-2
MN3-2



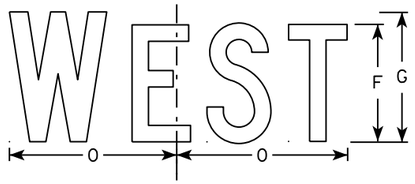
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

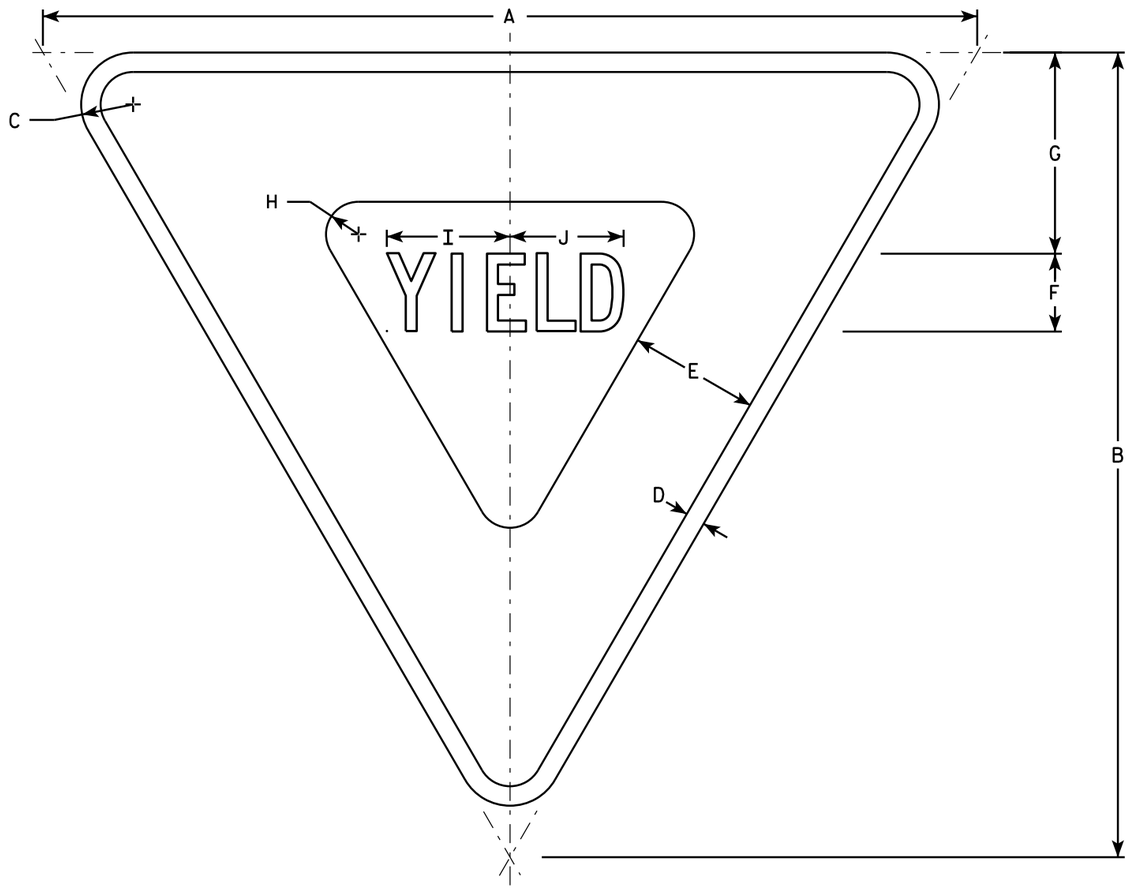
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

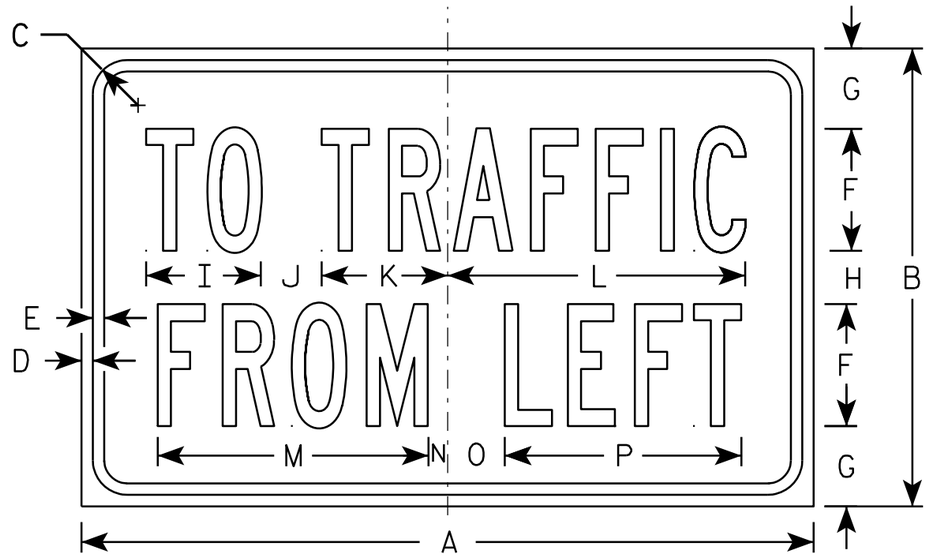
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



R1-54

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
2M	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
3																											
4																											
5																											

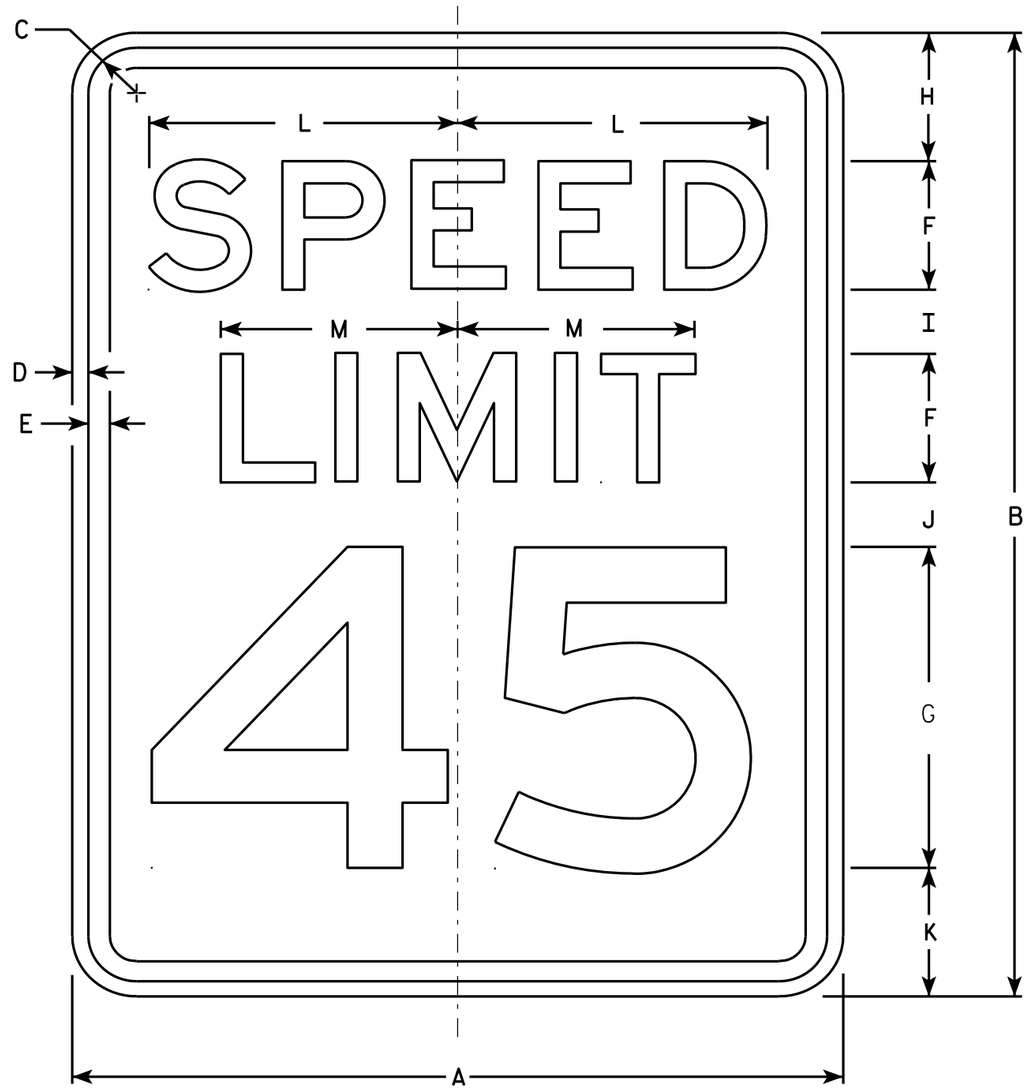
STANDARD SIGN
R1-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-54.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 163	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

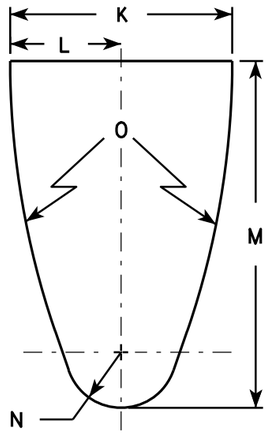
STANDARD SIGN
R2-1

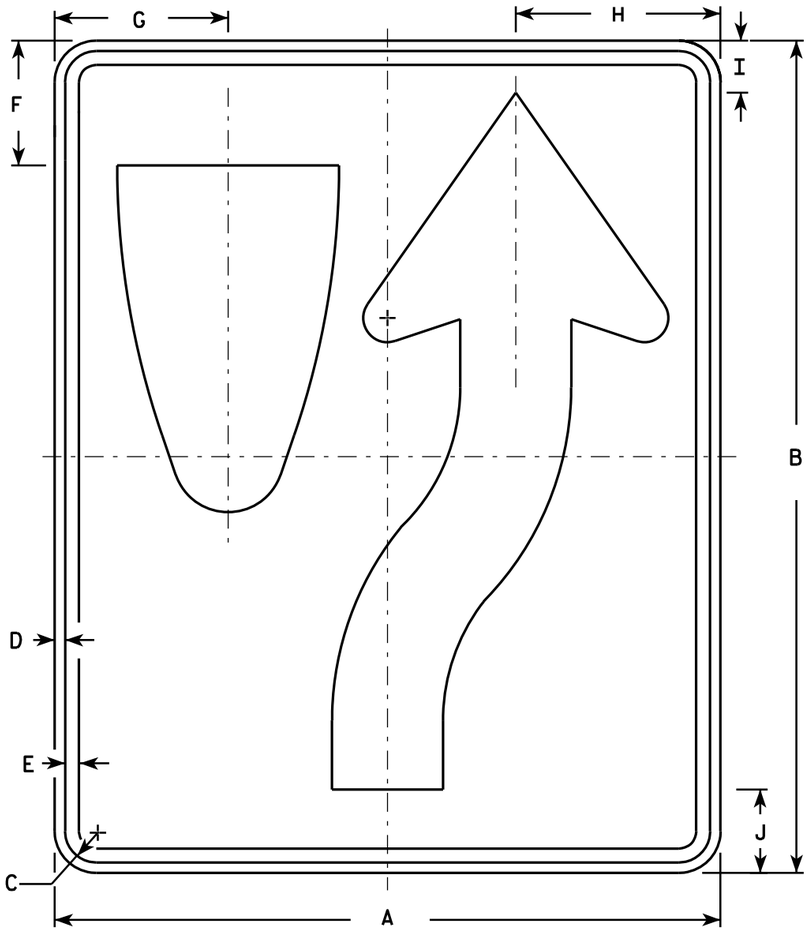
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 164 | E

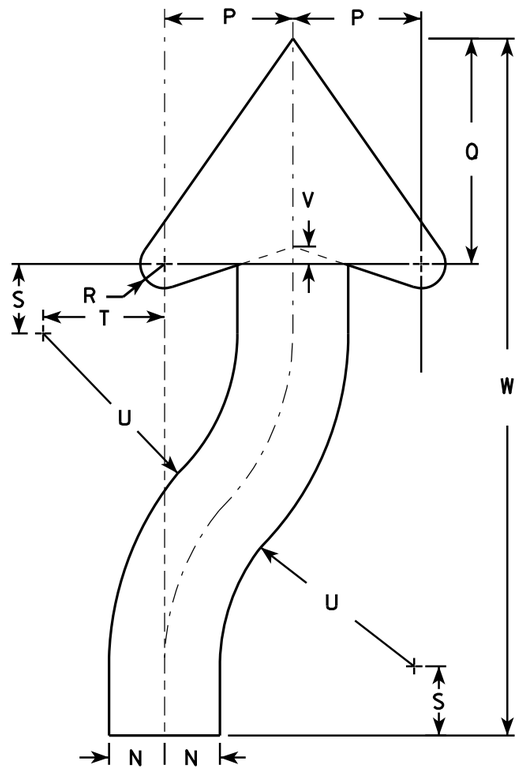




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

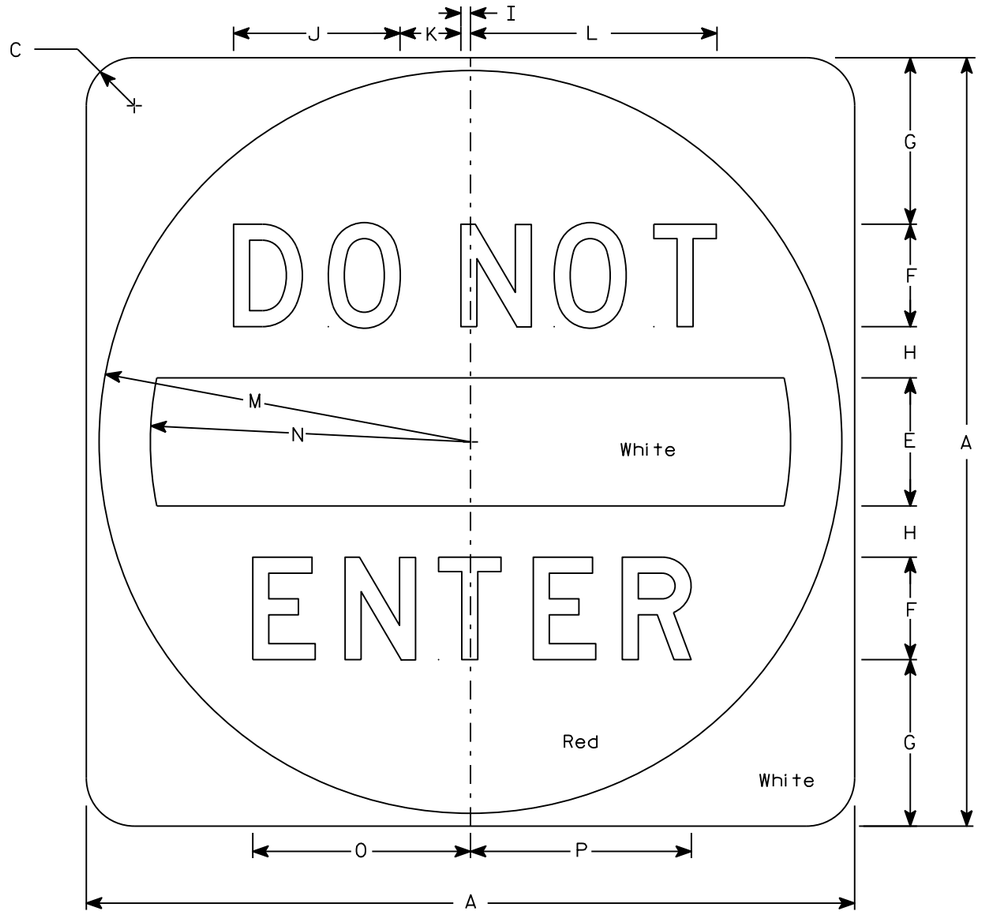
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 165	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

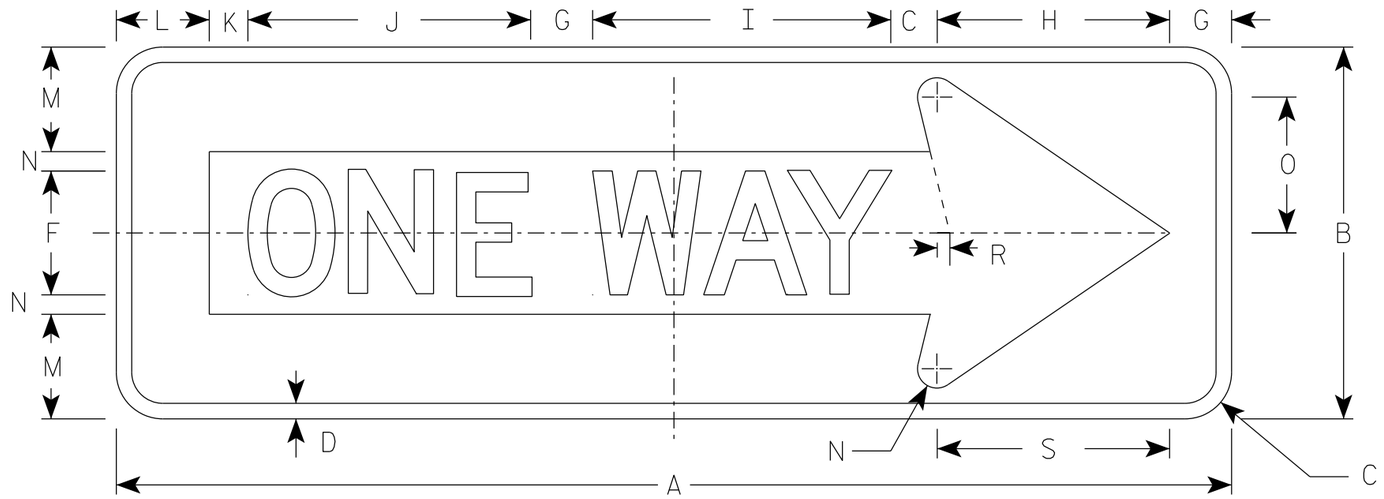
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

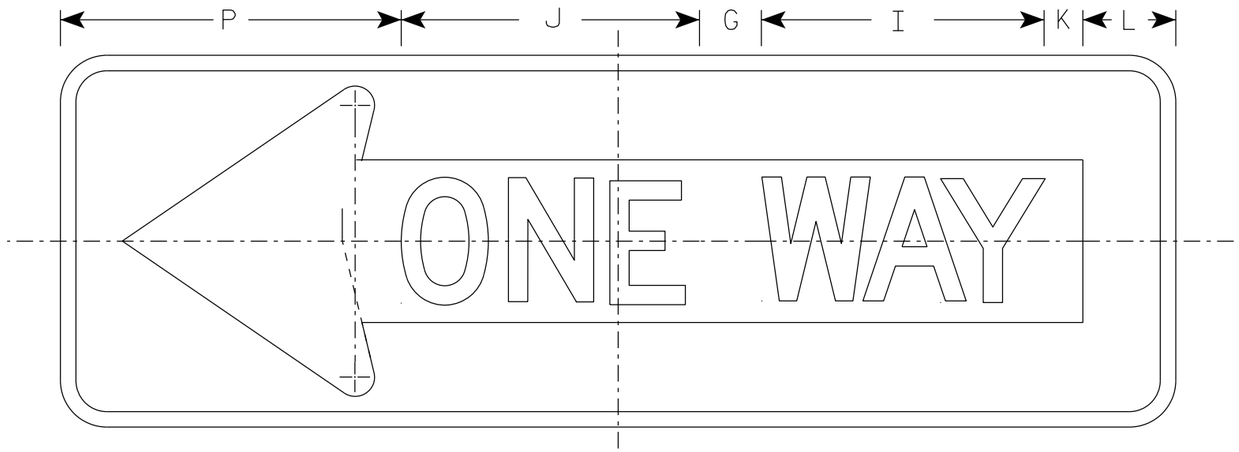
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 166 | E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D



R6-1L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
3	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
4	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
5																											

STANDARD SIGN
R6-1 L & R

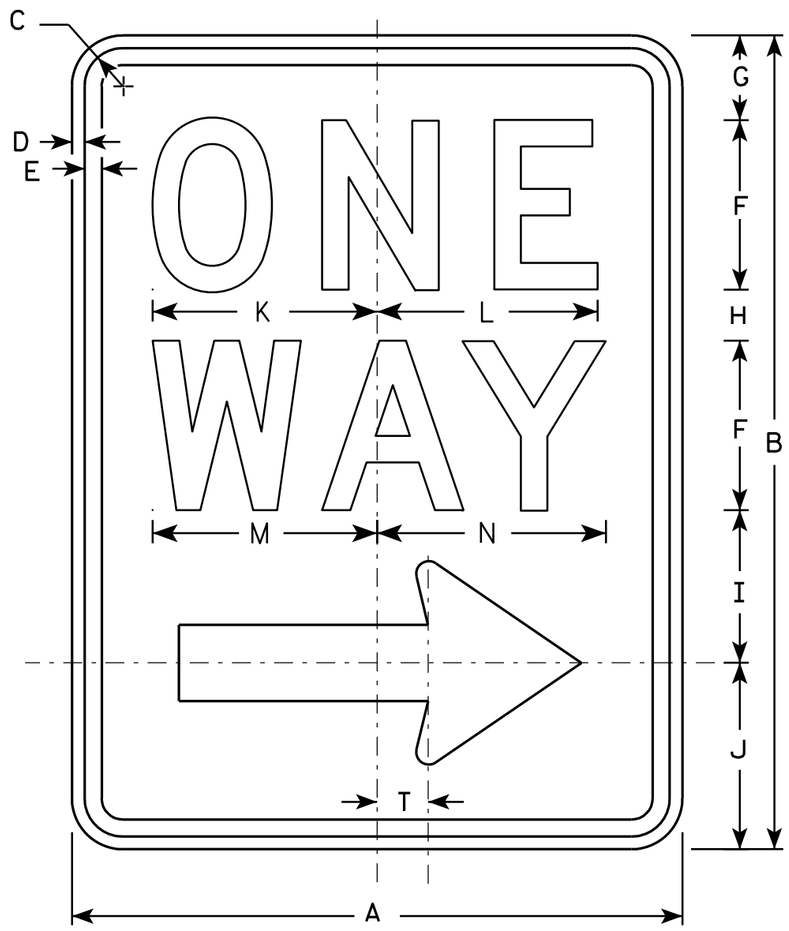
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 07/11/18 PLATE NO. R6-1.3

PROJECT NO:

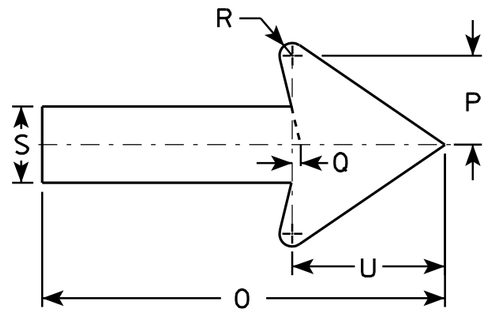
SHEET NO: 167 E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

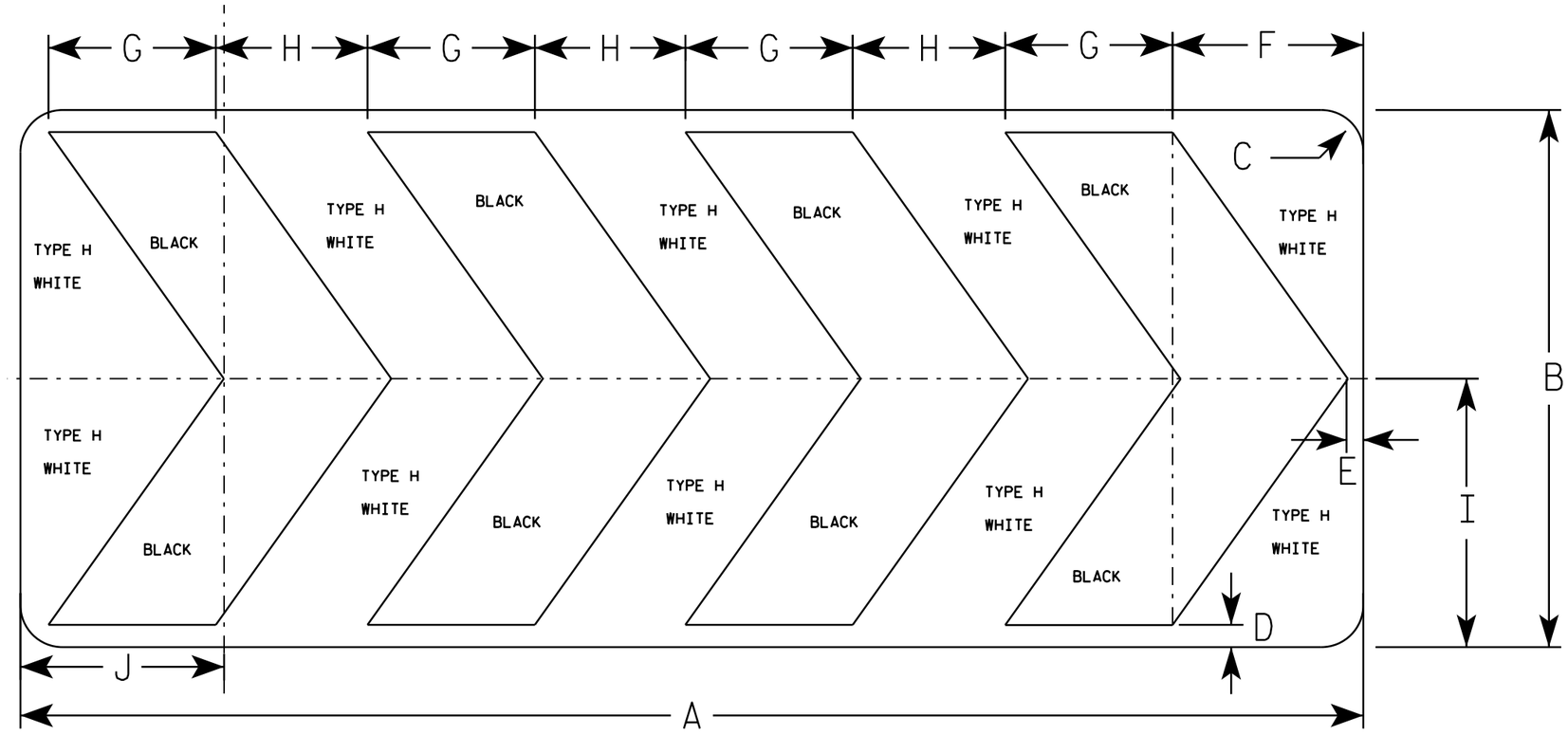
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 168	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   Message - BLACK
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-4B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

STANDARD SIGN
R6-4B

WISCONSIN DEPT OF TRANSPORTATION

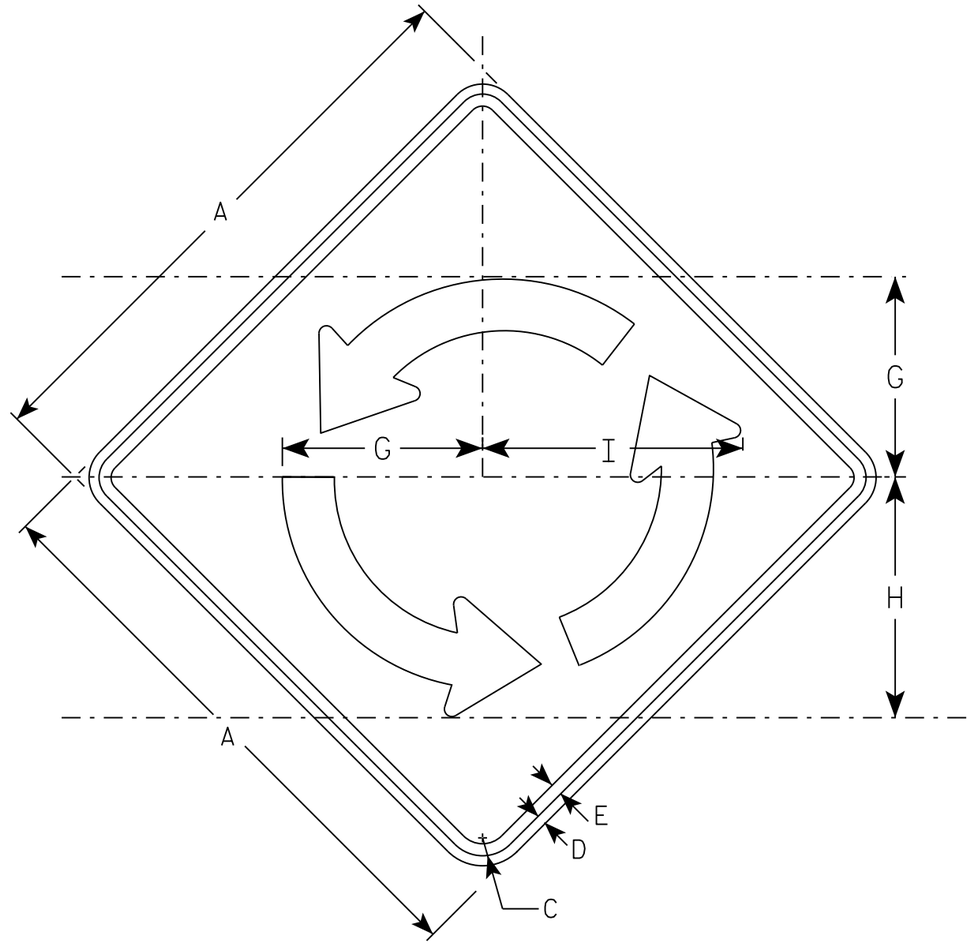
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/14 PLATE NO. R6-4.3

PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R64B.DGN PLOT DATE : 21-AUG-2014 15:01 PLOT BY : mscsja

WISDOT/CADDS SHEET 42



W2-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - YELLOW
   Message - BLACK

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Area sq. ft.
1																									
2S	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2																6.25
2M	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2																6.25
3	36		1 5/8	5/8	3/4		12 1/2	15	16 1/4																9.00
4	48		2 1/4	3/4	1		16 5/8	20	16 1/4																16.0
5																									

STANDARD SIGN
W2-6

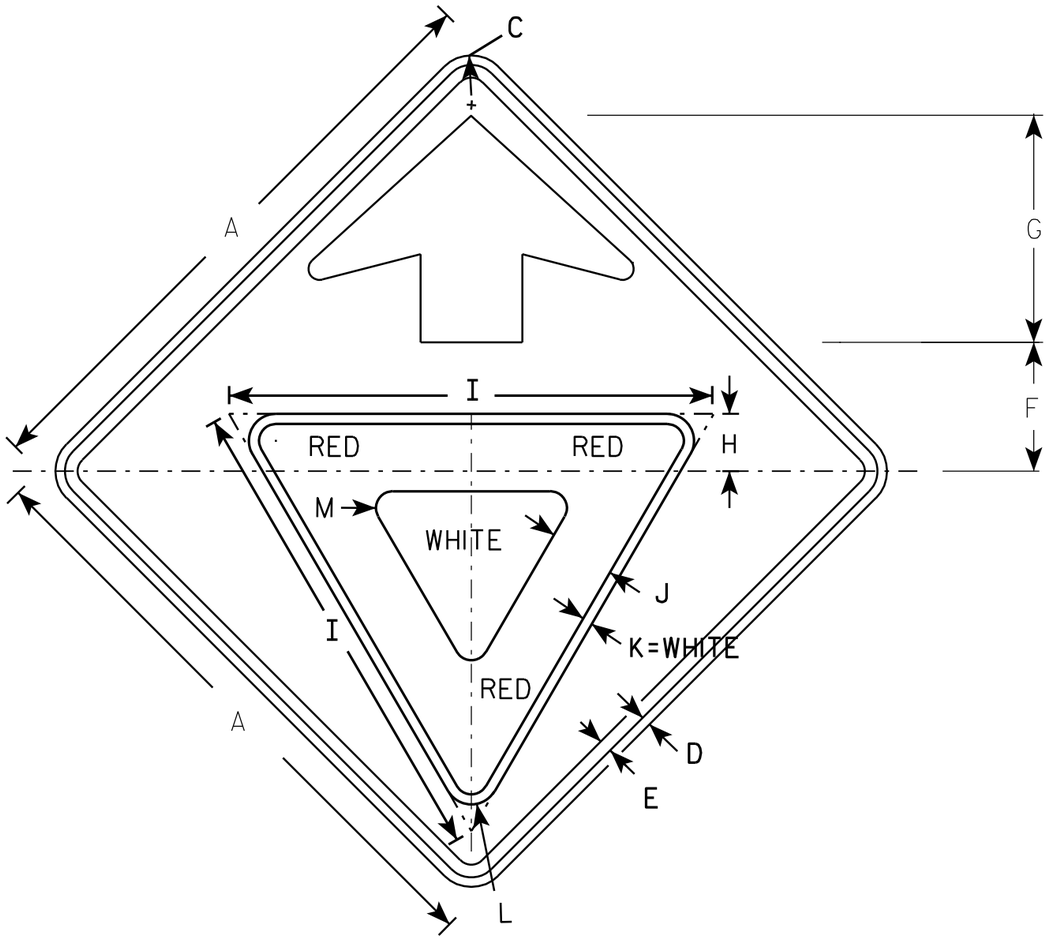
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. W2-6.6

PROJECT NO:

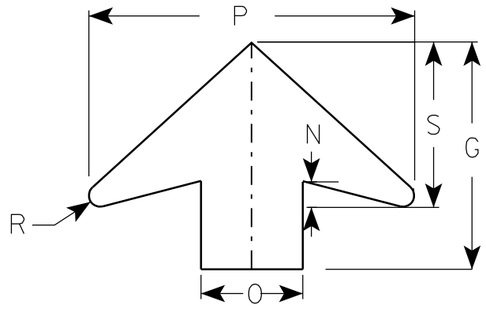
SHEET NO: 170 E



W3-2

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	3	25	3 3/8	1/2	1 3/8	7/8	1 1/4	5	16		1/2	8								6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W3-2

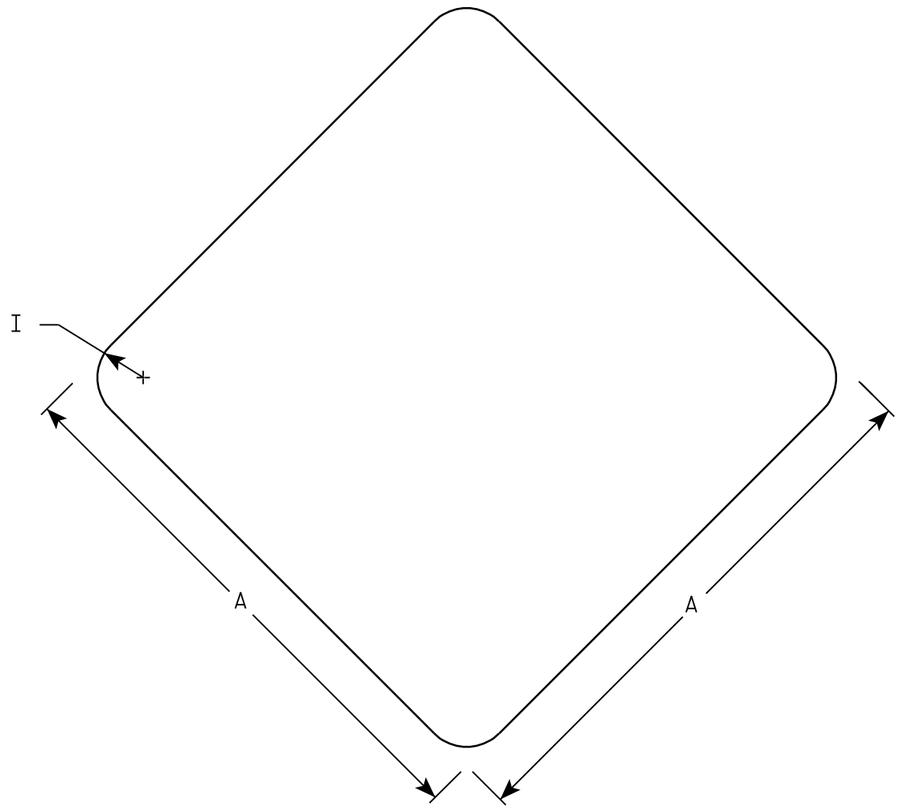
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-2..9

PROJECT NO:

SHEET NO: 171 E



W5-54

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

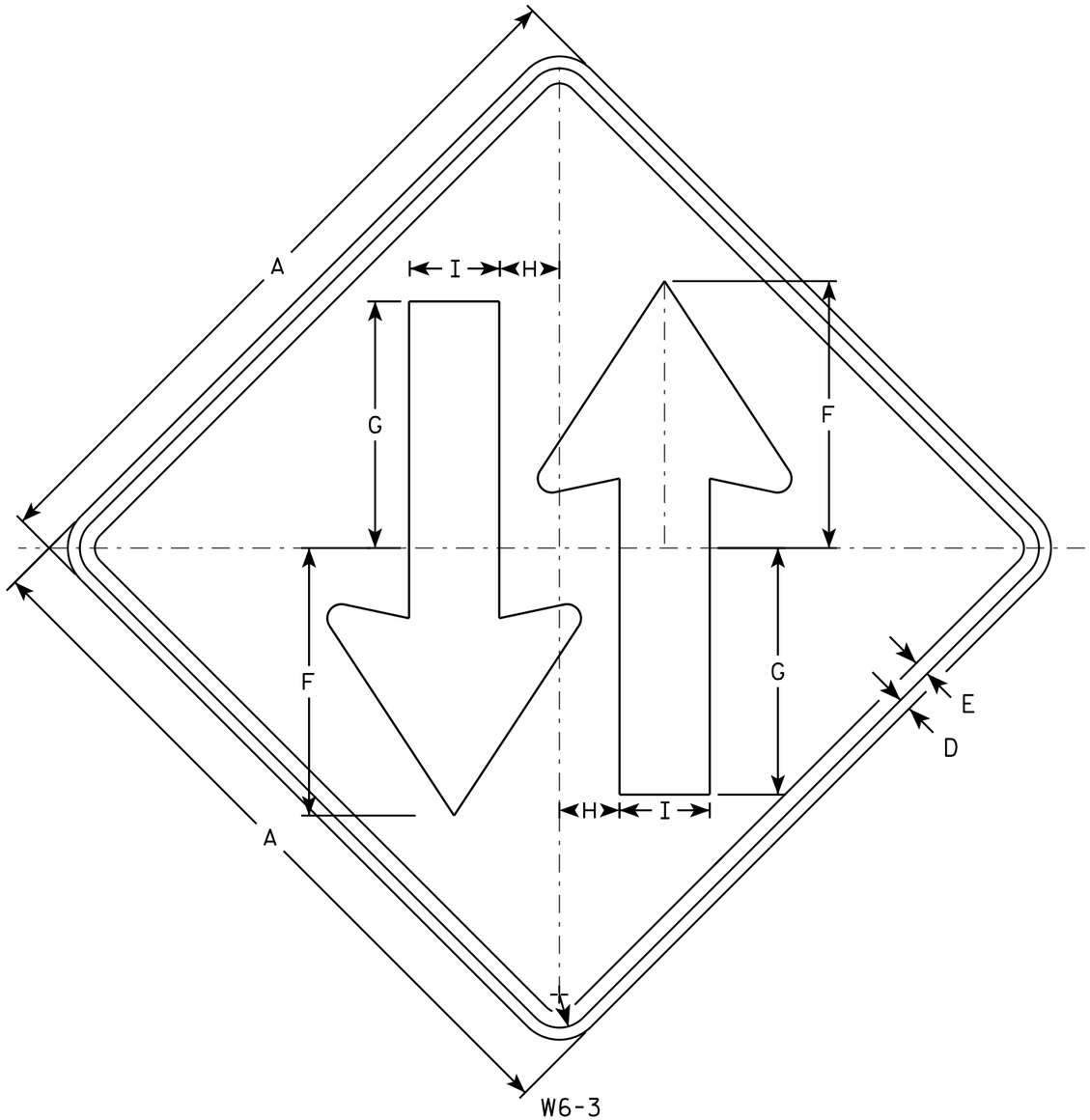
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/3/10 PLATE NO. W5-54.8

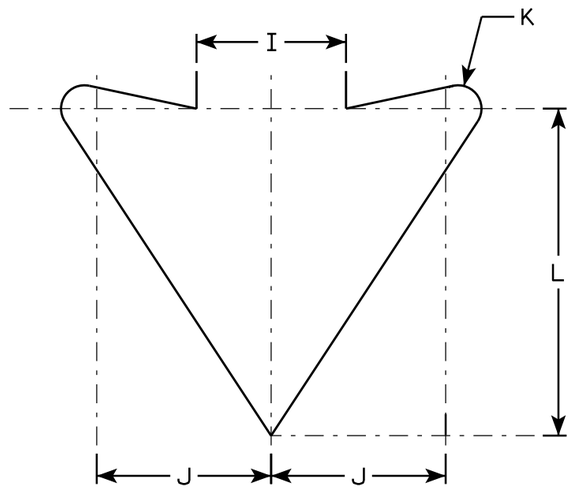
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 172 | E



W6-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
2M	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
3																											
4	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0
5	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0

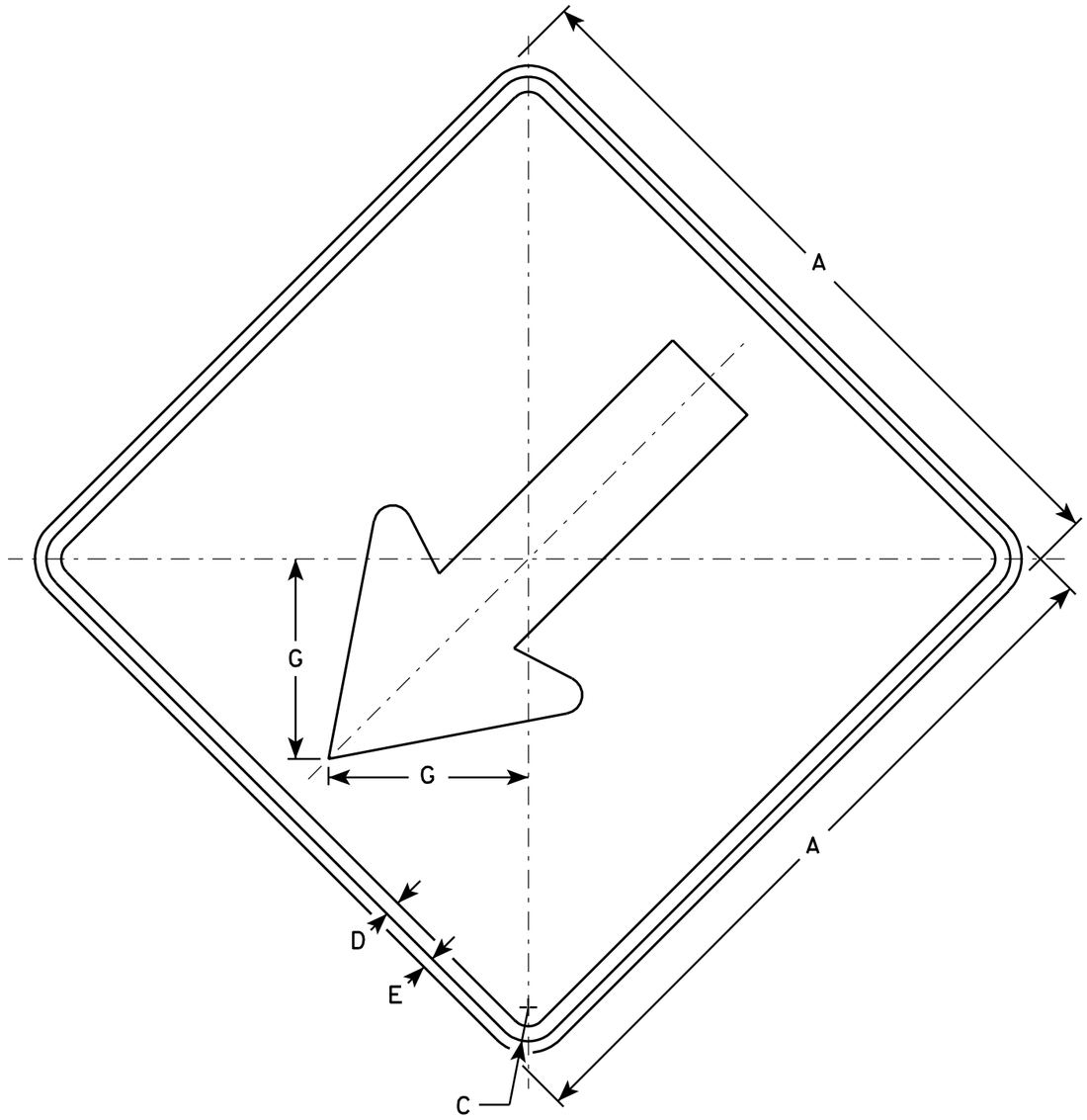
STANDARD SIGN
W6-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE W6-3.11

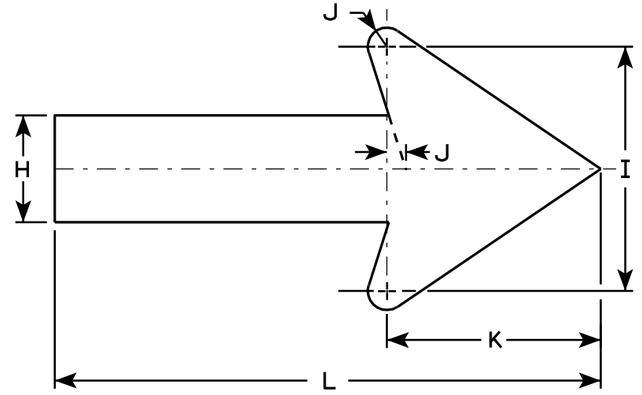
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



W12-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		6 5/8	3 1/2	8	5/8	7	18															4
2M	24		1 1/8	1/2	3/8		6 5/8	3 1/2	8	5/8	7	18															4
3	30		1 3/8	5/8	1/2		8 1/4	4 3/8	10	3/4	8 3/4	22 3/8															6.25
4	36		1 3/4	3/4	5/8		10 3/8	5 1/2	12 1/2	1	11	27 7/8															9.0
5	48		2 1/4	3/4	1		12 1/2	6 5/8	15	1 1/4	13 1/4	33 1/2															16

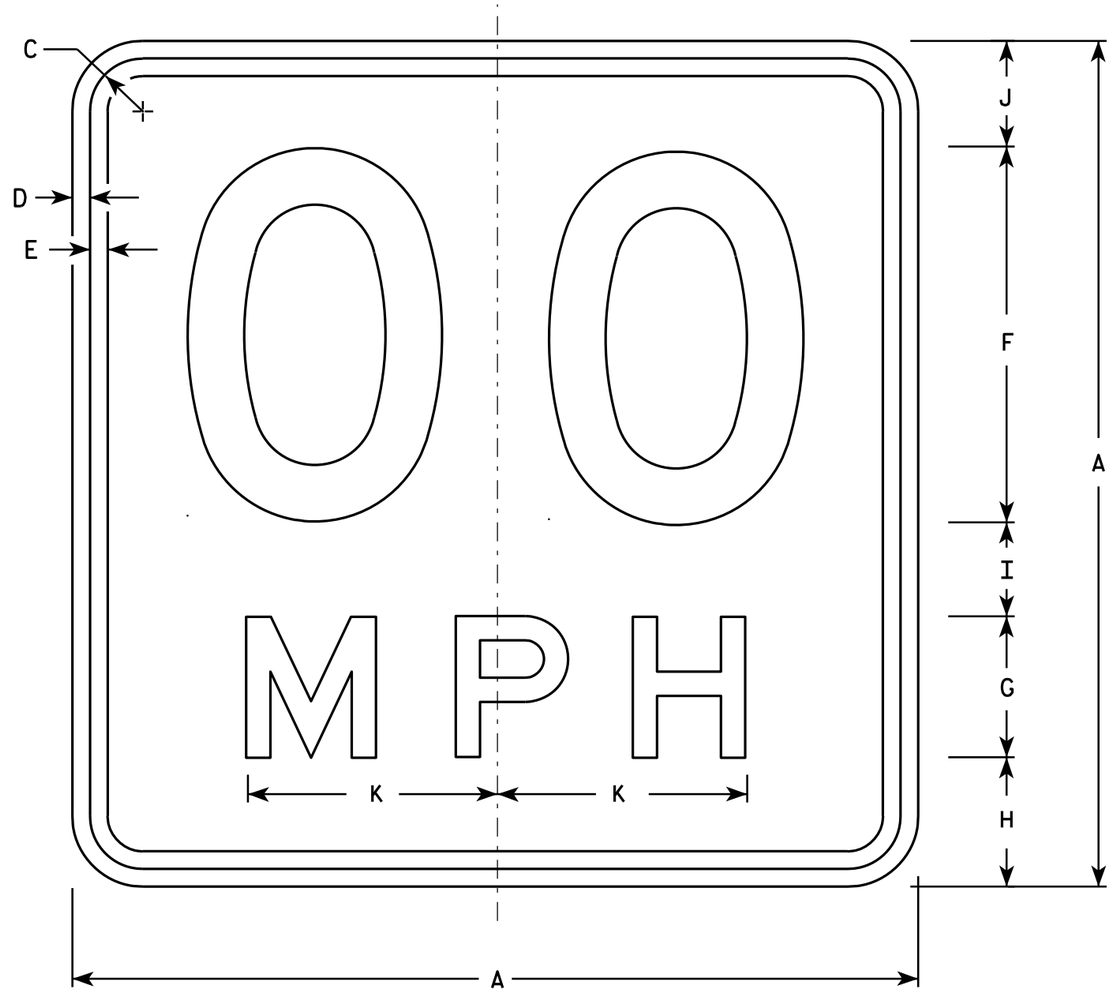
STANDARD SIGN
W12-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 174 | E



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

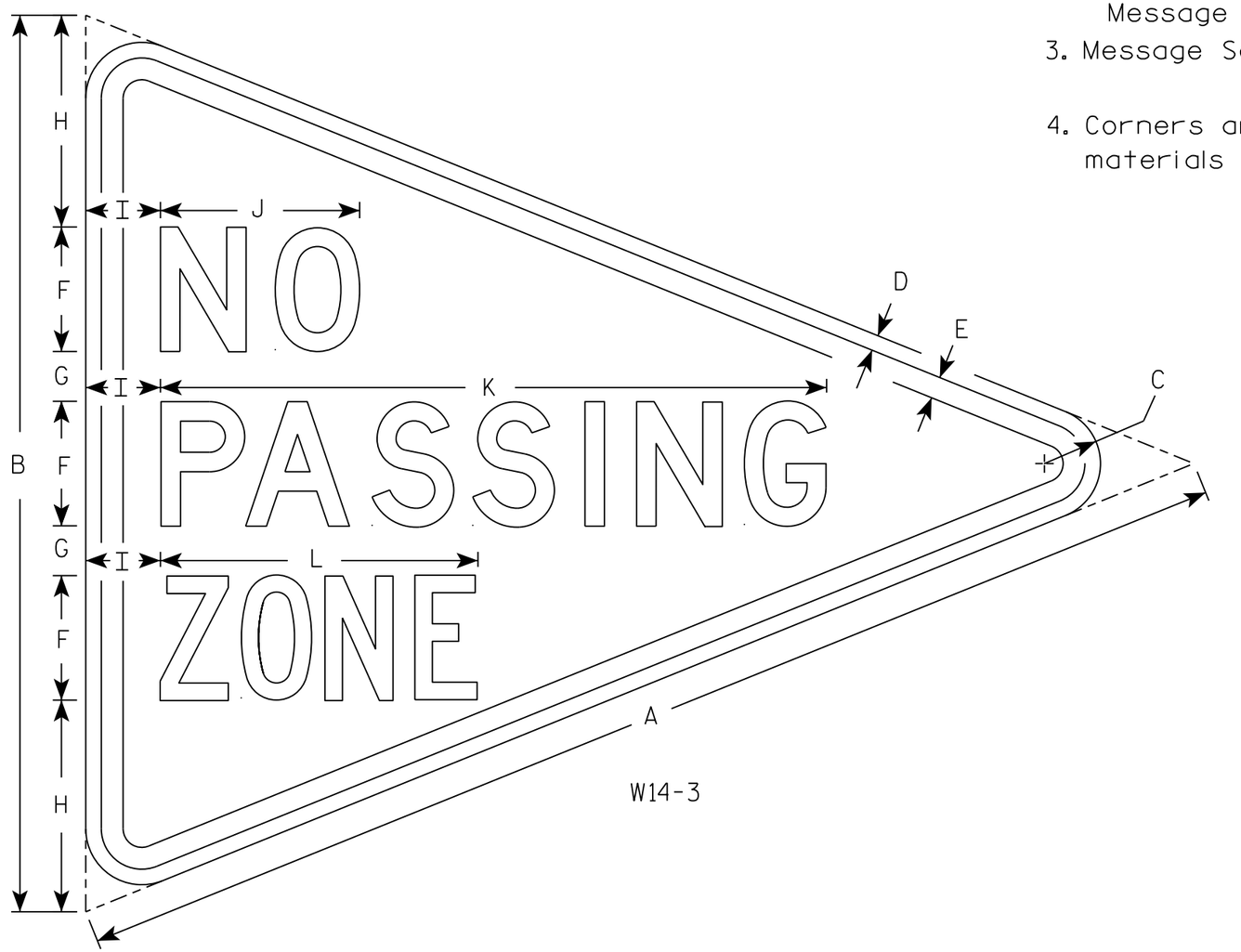
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 175 | E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

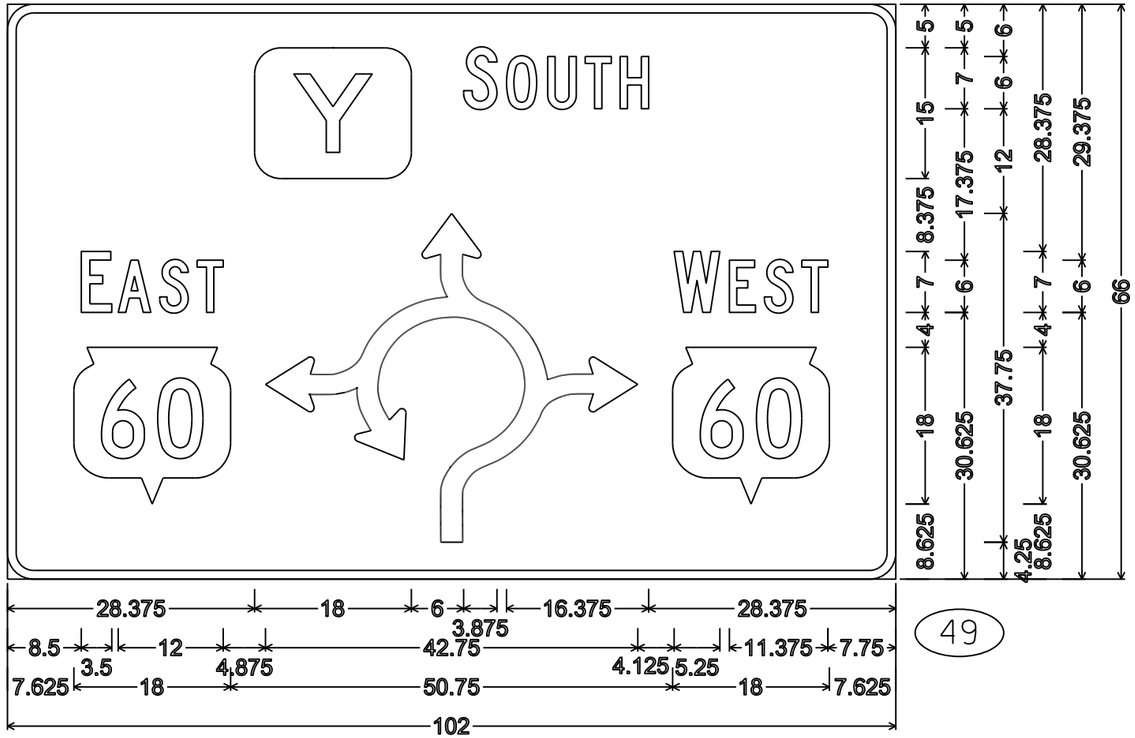
DATE 3/21/17 PLATE NO. W14-3.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 176 | E

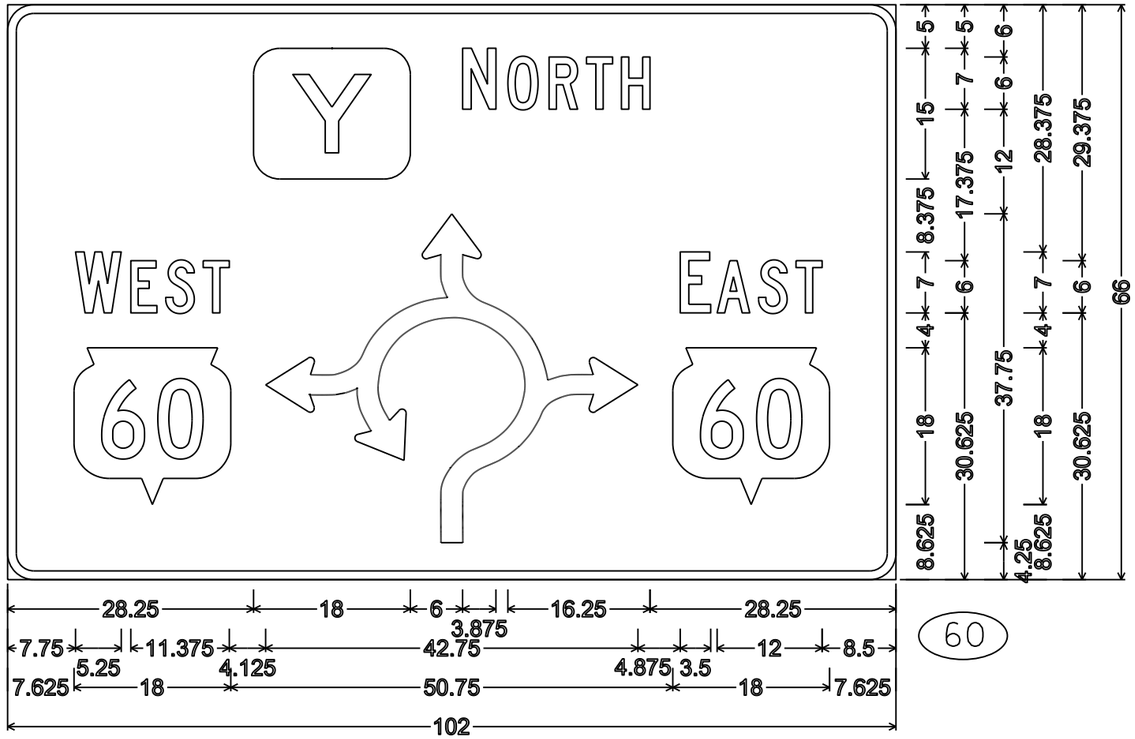
7

NOTES

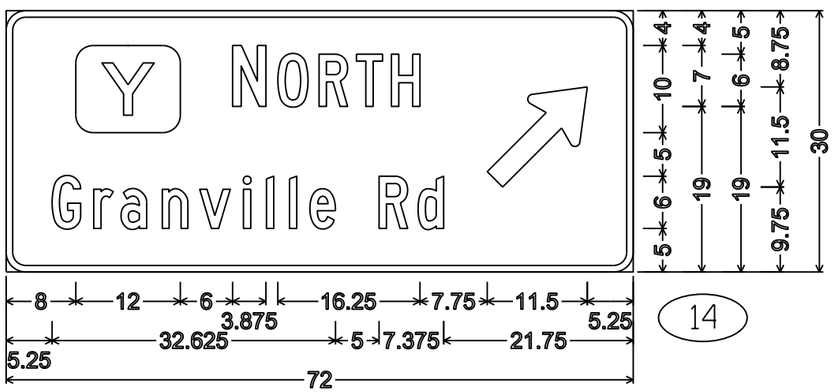
1. Signs are Type II- Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - C



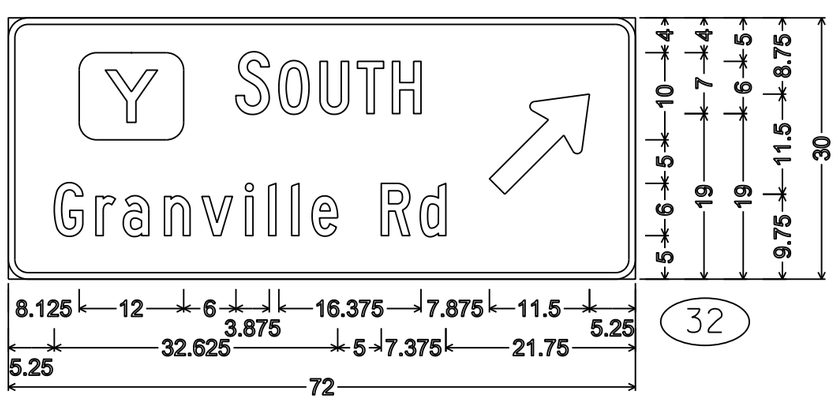
3.000" Radius, 1.000" Border,



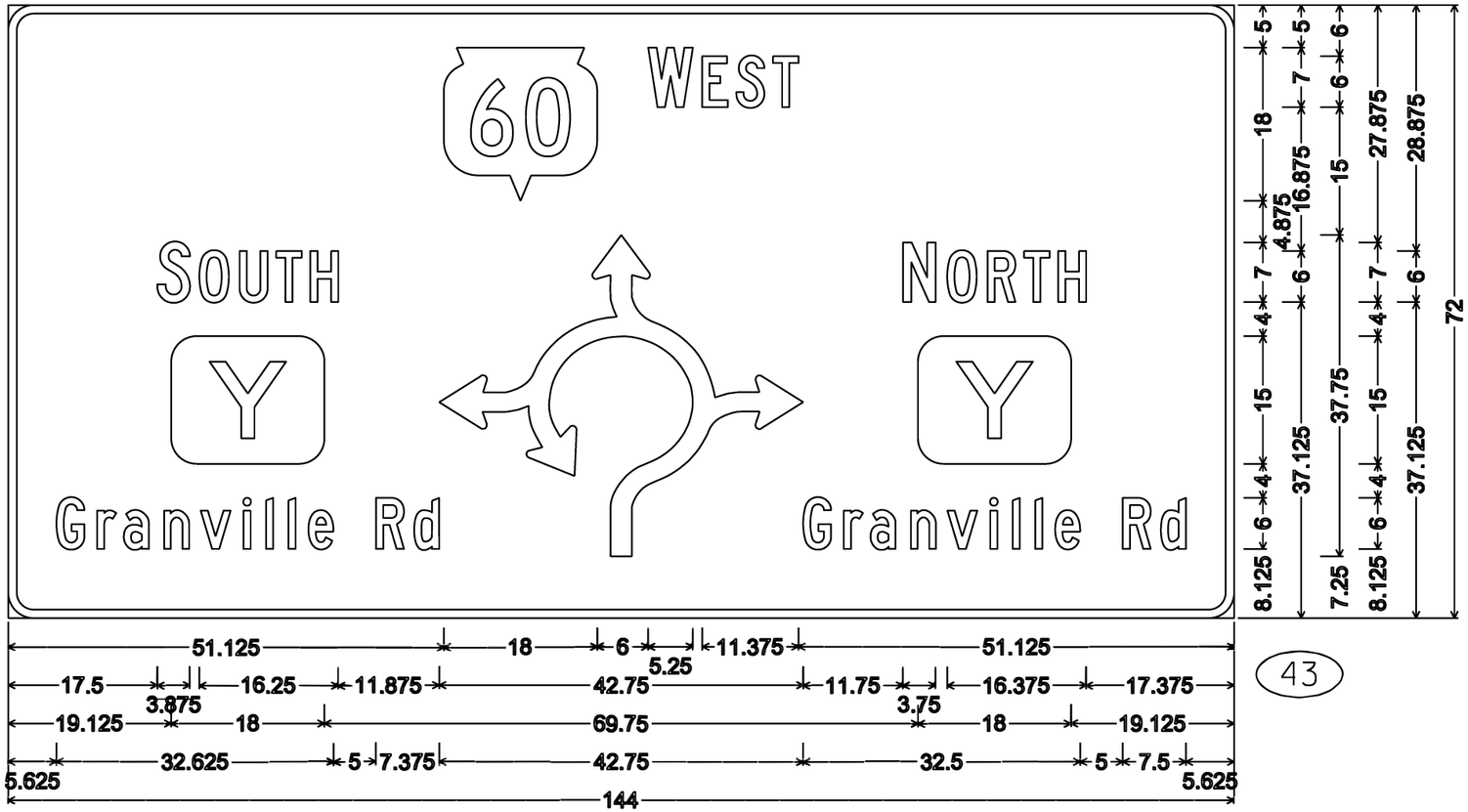
3.000" Radius, 1.000" Border



D1-2; 2.250" Radius, 0.750" Border



D1-2; 2.250" Radius, 0.750" Border



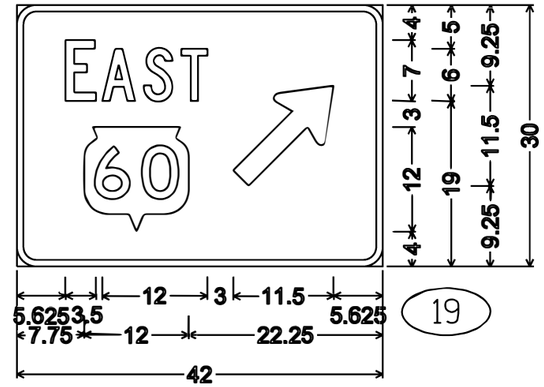
43

3.000" Radius, 1.000" Border

Type 1 Sign type SH Sheeting

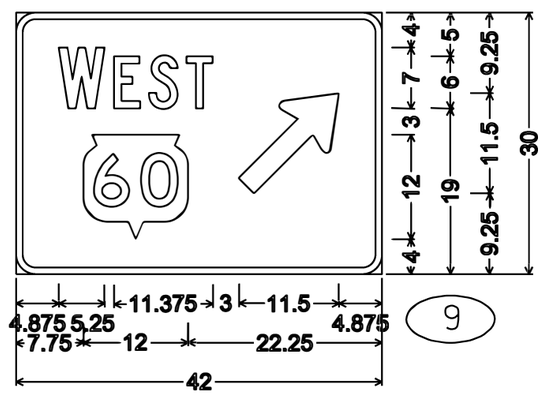
NOTES

1. Signs are Type II- Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - C



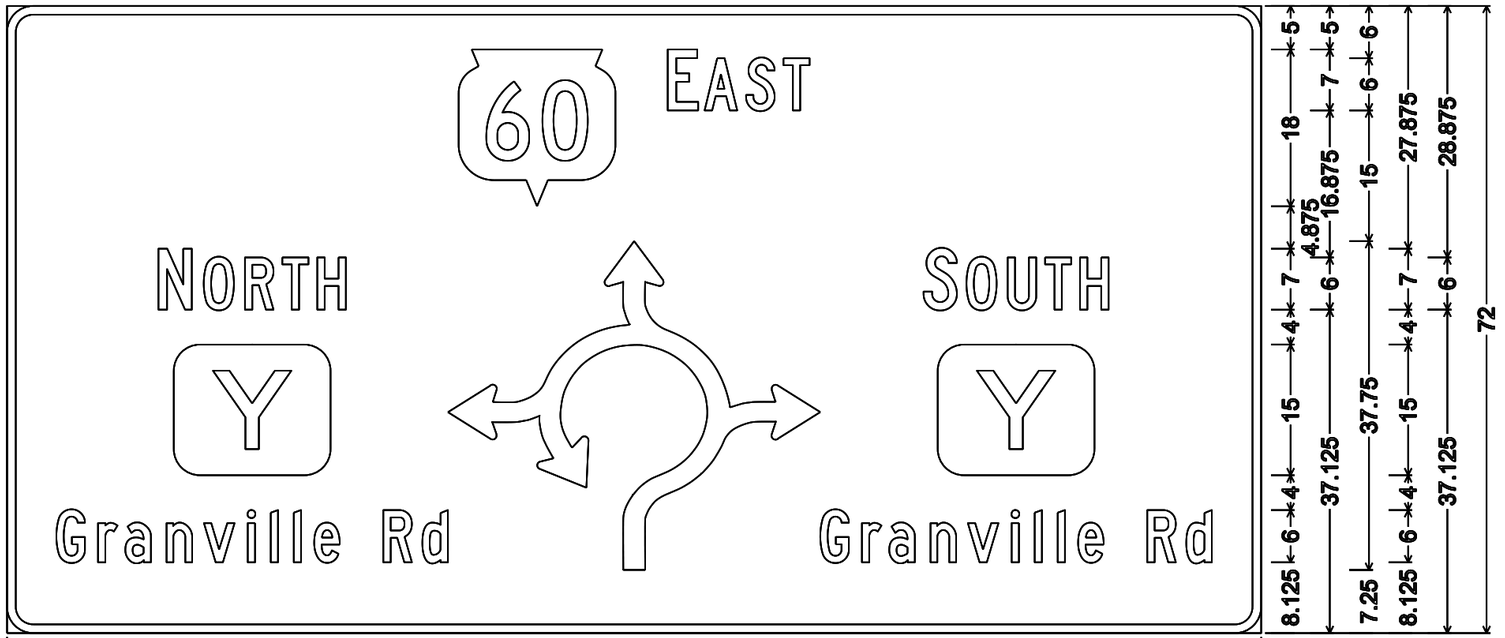
19

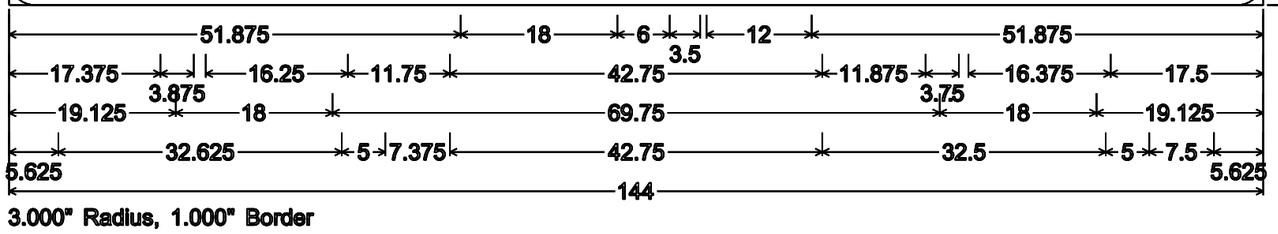
D1-1;
2.250" Radius, 0.750" Border



9

D1-1;
2.250" Radius, 0.750" Border





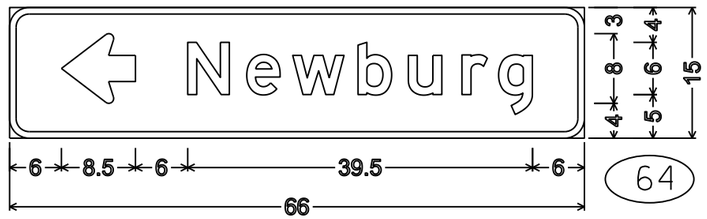
3.000" Radius, 1.000" Border

3

Type 1 sign Type SH sheeting

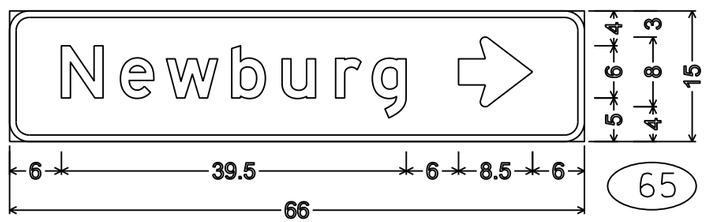
NOTES

1. Signs are Type II- Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - C except as noted



64

D1-1; 2.250" Radius, 0.750" Border
"Newburg" E



65

D1-1; 2.250" Radius, 0.750" Border,
"Newburg" E

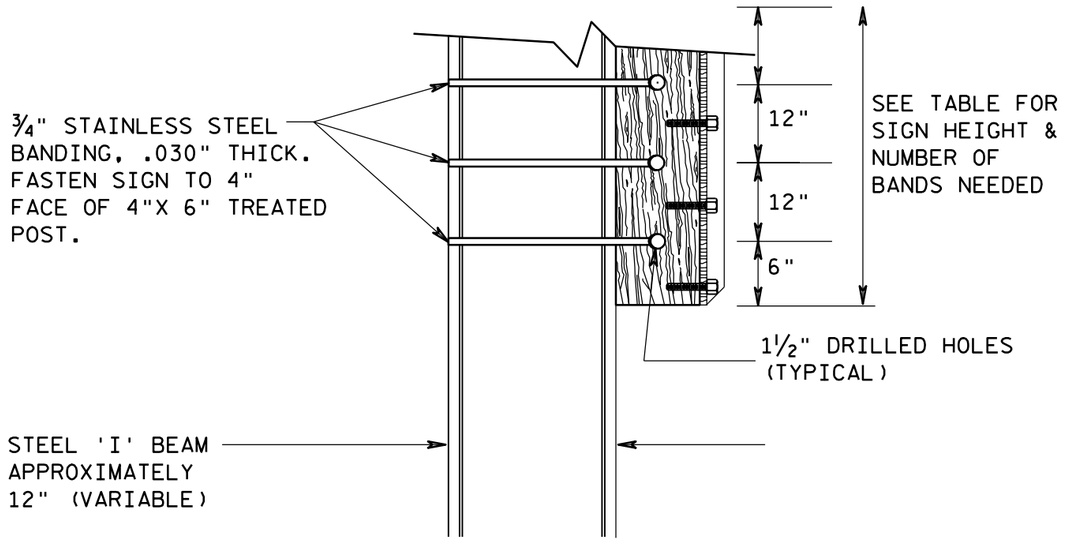
7

7

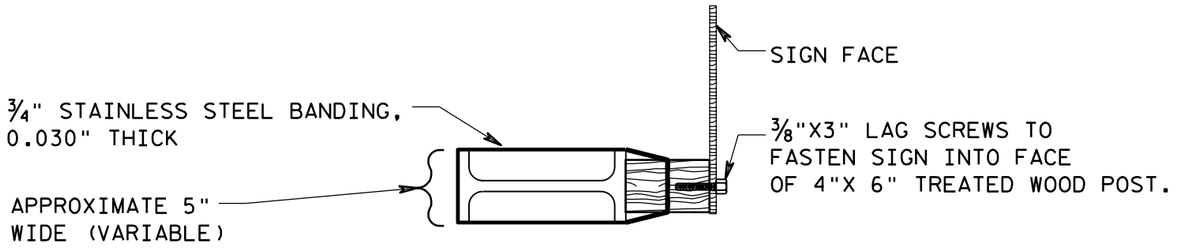
TYPE II SIGN MOUNTING ON STEEL I BEAMS

SIGN HEIGHT	NUMBER OF BANDS
24"	2
30"	2
36"	3
42"	3
48"	4
54"	4

SIGN HEIGHT	NUMBER OF BANDS
60"	5
66"	5
72"	6
78"	6
84"	7
90"	7



SIDE VIEW



TOP VIEW

TYPE II SIGN MOUNTING

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/07 PLATE NO. A5-8.1

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET NO: 180	E

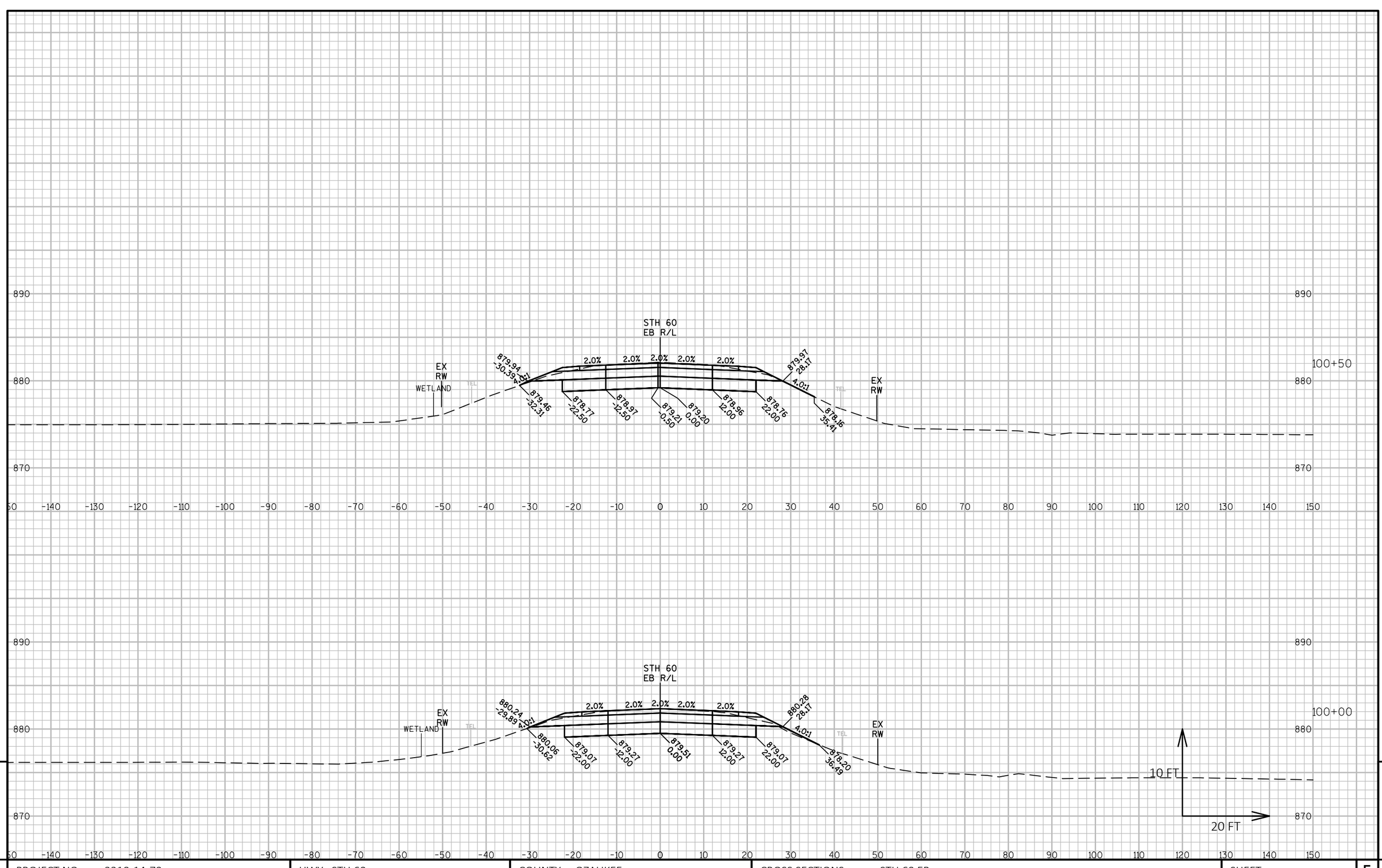
		EB/WB STH 60								
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.25	Mass Ordinate
100+00	0.00	123.11	20.00	1.54	0	0	0	0	0	0
100+50	50.00	128.52	20.00	0.36	233	37	2	233	2	194
100+53	3.27	129.45	20.00	0.47	16	2	0	249	2	207
101+00	46.73	140.39	20.00	7.04	233	35	7	482	10	398
101+07	6.55	142.72	20.00	8.31	34	5	2	516	13	425
101+50	43.45	153.97	20.00	11.69	239	32	16	755	33	611
102+00	50.00	179.08	20.00	10.29	308	37	20	1,064	58	857
102+00	0.04	179.09	20.00	10.28	0	0	0	1,064	58	857
102+50	49.96	190.50	20.00	10.59	342	37	19	1,406	82	1,138
103+00	50.00	181.13	20.00	25.22	344	37	33	1,750	124	1,404
103+50	50.00	169.91	20.00	29.44	325	37	51	2,075	187	1,629
104+00	50.00	166.60	20.00	29.85	312	37	55	2,387	256	1,834
104+50	50.00	149.07	20.00	54.77	292	37	78	2,679	354	1,992
105+00	50.00	150.00	20.00	70.49	277	37	116	2,956	499	2,087
105+00	0.00	150.00	20.00	70.49	0	0	0	2,956	499	2,087
105+50	50.00	144.26	20.00	48.03	272	37	110	3,228	636	2,185
106+00	50.00	159.39	20.00	29.01	281	37	71	3,509	725	2,340
106+50	50.00	114.40	20.00	47.56	254	37	71	3,763	814	2,468
107+00	50.00	83.84	20.00	87.18	184	37	125	3,946	970	2,458
107+18	18.19	68.75	20.00	94.33	51	13	61	3,998	1,046	2,420
110+36	318.18	88.57	20.00	62.45	0	236	0	3,998	1,046	2,184
110+50	13.63	107.28	20.00	59.45	49	10	31	4,047	1,085	2,185
111+00	50.00	139.20	20.00	25.41	228	37	79	4,275	1,183	2,278
111+50	50.00	162.83	20.00	28.21	280	37	50	4,555	1,245	2,458
112+00	50.00	164.82	20.00	23.70	303	37	48	4,858	1,305	2,665
112+50	50.00	169.53	20.00	21.27	310	37	42	5,168	1,357	2,885
113+00	50.00	117.04	20.00	28.06	265	37	46	5,433	1,414	3,056
113+50	50.00	100.88	20.00	32.94	202	37	56	5,635	1,485	3,151
114+00	50.00	93.58	20.00	28.55	180	37	57	5,815	1,556	3,222
114+50	50.00	109.00	20.00	18.37	188	37	43	6,003	1,610	3,319
115+00	50.00	119.63	20.00	3.64	212	37	20	6,215	1,636	3,468
115+50	50.00	109.98	20.00	6.81	213	37	10	6,427	1,648	3,631
116+00	50.00	114.05	20.00	5.15	207	37	11	6,635	1,661	3,788
116+50	50.00	115.21	20.00	4.06	212	37	9	6,847	1,672	3,952
117+00	50.00	120.39	20.00	1.56	218	37	5	7,065	1,679	4,127
117+50	50.00	125.93	20.00	1.37	228	37	3	7,293	1,682	4,315
		EB/WB STH 60 TOTALS			7,293	1,296	1,346	7,293	1,682	4,315

NB/SB CTH Y

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
200+00	0.00	114.84	18.75	2.68	0	0	0	0	0	0
200+50	50.00	141.68	18.75	0.32	238	35	3	238	3	199
201+00	50.00	151.42	18.75	0.00	271	35	0	509	4	436
201+50	50.00	151.99	18.75	0.00	281	35	0	790	4	682
202+00	50.00	147.04	18.75	0.00	277	35	0	1,067	4	924
202+50	50.00	140.32	18.75	0.11	266	35	0	1,333	4	1,155
203+00	50.00	120.79	18.75	8.02	242	35	8	1,575	13	1,353
203+50	50.00	114.80	18.75	12.91	218	35	19	1,793	38	1,512
204+00	50.00	100.67	18.75	21.00	200	35	31	1,992	77	1,638
204+50	50.00	95.54	18.75	21.11	182	35	39	2,174	126	1,736
205+00	50.00	89.31	18.75	22.62	171	35	40	2,345	176	1,822
205+50	50.00	76.81	18.75	19.44	154	35	39	2,499	225	1,892
206+00	50.00	66.57	18.75	26.01	133	35	42	2,632	277	1,937
206+50	50.00	69.84	18.75	72.13	126	35	91	2,758	391	1,915
206+76	26.25	64.04	18.75	81.57	65	18	75	2,823	484	1,869
209+83	306.55	151.58	11.25	32.53	0	170	0	2,823	484	1,699
210+00	17.20	165.62	11.25	29.43	101	7	20	2,924	509	1,768
210+50	50.00	187.24	11.25	5.27	327	21	32	3,251	549	2,034
211+00	50.00	213.19	11.25	14.53	371	21	18	3,621	572	2,361
211+50	50.00	231.61	11.25	21.32	412	21	33	4,033	614	2,710
212+00	50.00	230.30	11.25	22.60	428	21	41	4,461	664	3,066
212+50	50.00	154.79	11.25	6.36	357	21	27	4,818	698	3,368
213+00	50.00	95.02	11.25	11.92	231	21	17	5,049	719	3,558
213+50	50.00	83.93	11.25	20.82	166	21	30	5,215	757	3,665
214+00	50.00	86.80	11.25	20.75	158	21	38	5,373	805	3,754
214+50	50.00	125.97	11.25	21.94	197	21	40	5,570	855	3,881
215+00	50.00	101.10	11.25	12.98	210	21	32	5,780	895	4,030
215+50	50.00	110.07	11.25	2.97	196	21	15	5,975	913	4,186
216+00	50.00	90.43	11.25	0.26	186	21	3	6,161	917	4,347
216+50	50.00	88.21	11.25	0.91	165	21	1	6,327	919	4,490
216+59	8.79	0.00	11.25	0.00	14	4	0	6,341	919	4,501
		NB/SB CTH Y TOTALS			6,341	922	735	6,341	919	4,501

RAB CIRCLE

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
1+00	0.00	36.19	0.00	304.52	0	0	0	0	0	0
1+50	50.00	60.90	62.00	214.36	90	57	480	90	601	-568
2+00	50.00	129.06	0.00	307.05	176	57	483	266	1,204	-1,053
2+50	50.00	39.80	20.00	300.07	156	19	562	422	1,907	-1,618
3+00	50.00	31.78	8.00	338.02	66	26	591	488	2,645	-2,316
3+50	50.00	17.17	3.33	311.17	45	10	601	534	3,397	-3,033
4+00	50.00	29.79	26.67	196.17	43	28	470	577	3,984	-3,604
4+46	45.57	36.19	0.00	304.51	56	23	422	633	4,512	-4,099
		RAB CIRCLE TOTALS			633	198	3,187	633	4,512	-4,099



9

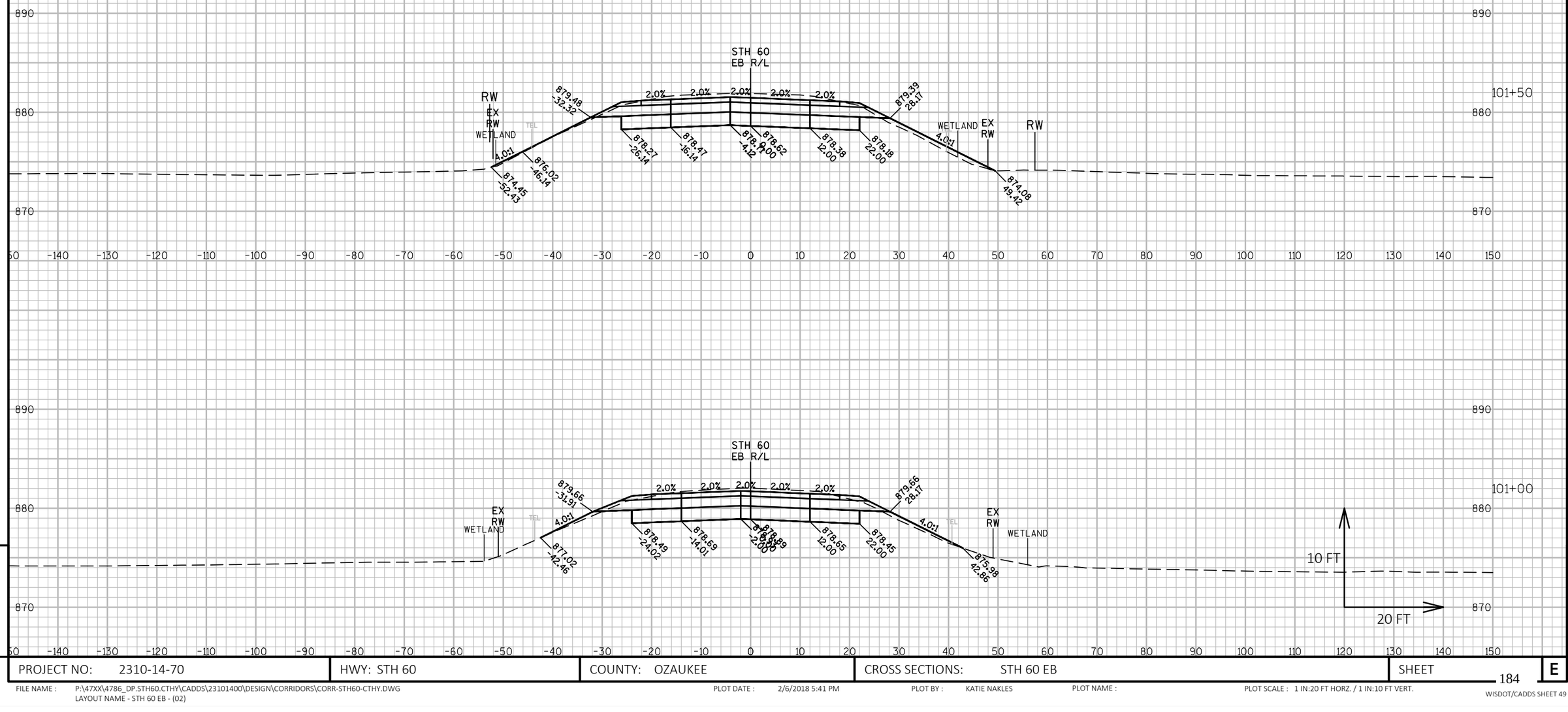
9

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 EB	SHEET 183	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 EB - (01)

PLOT DATE : 2/6/2018 5:41 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

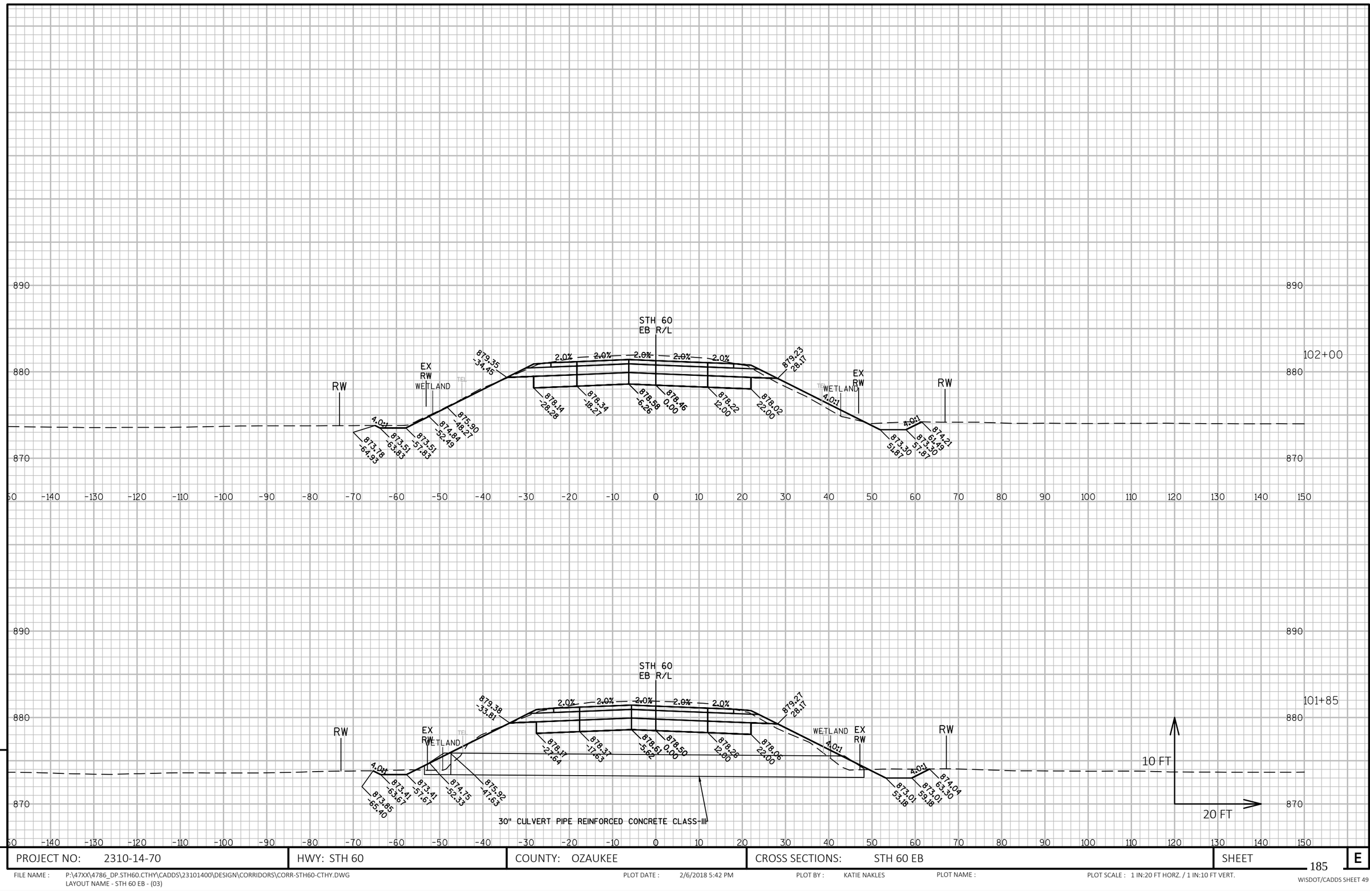


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 EB	SHEET 184	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 EB - (02)

PLOT DATE : 2/6/2018 5:41 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

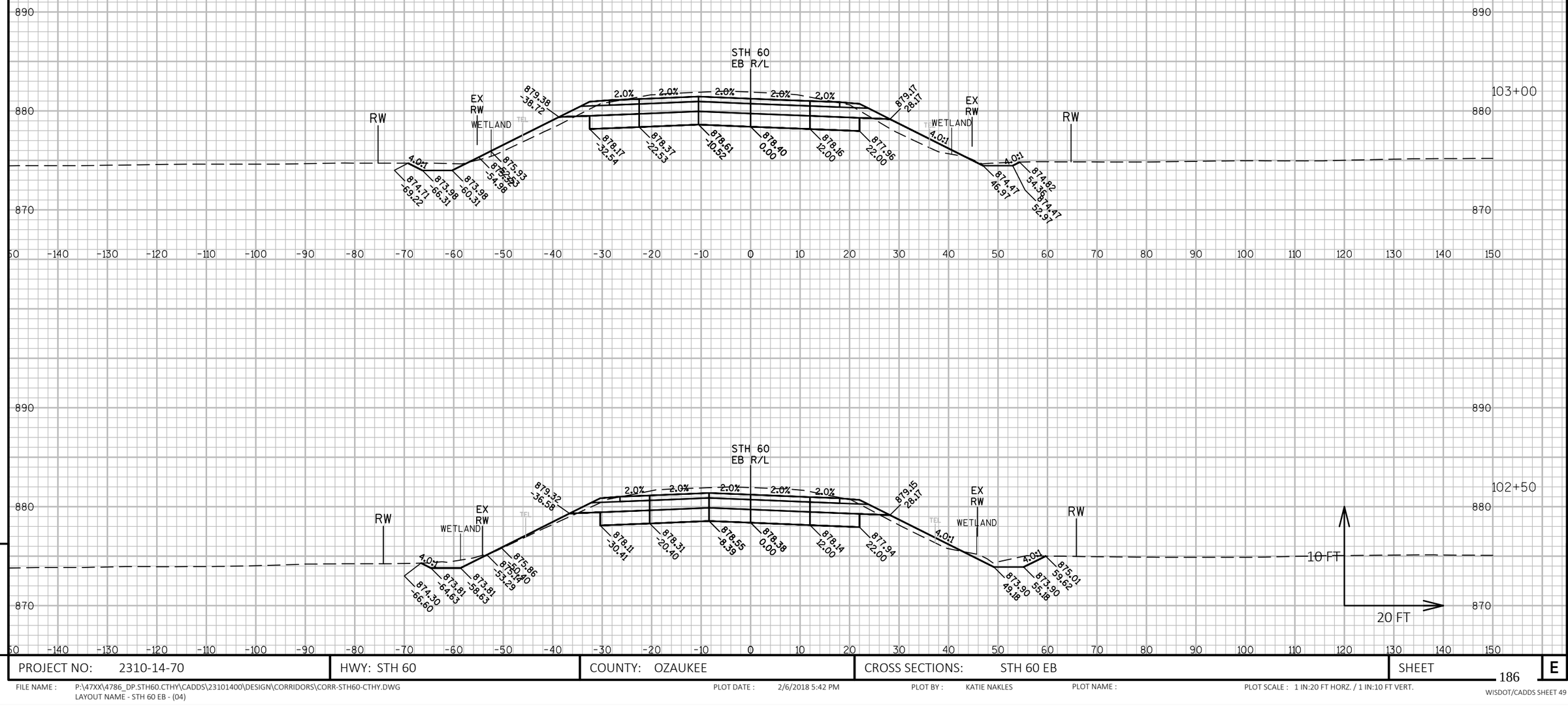


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 EB	SHEET 185	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 EB - (03)

PLOT DATE : 2/6/2018 5:42 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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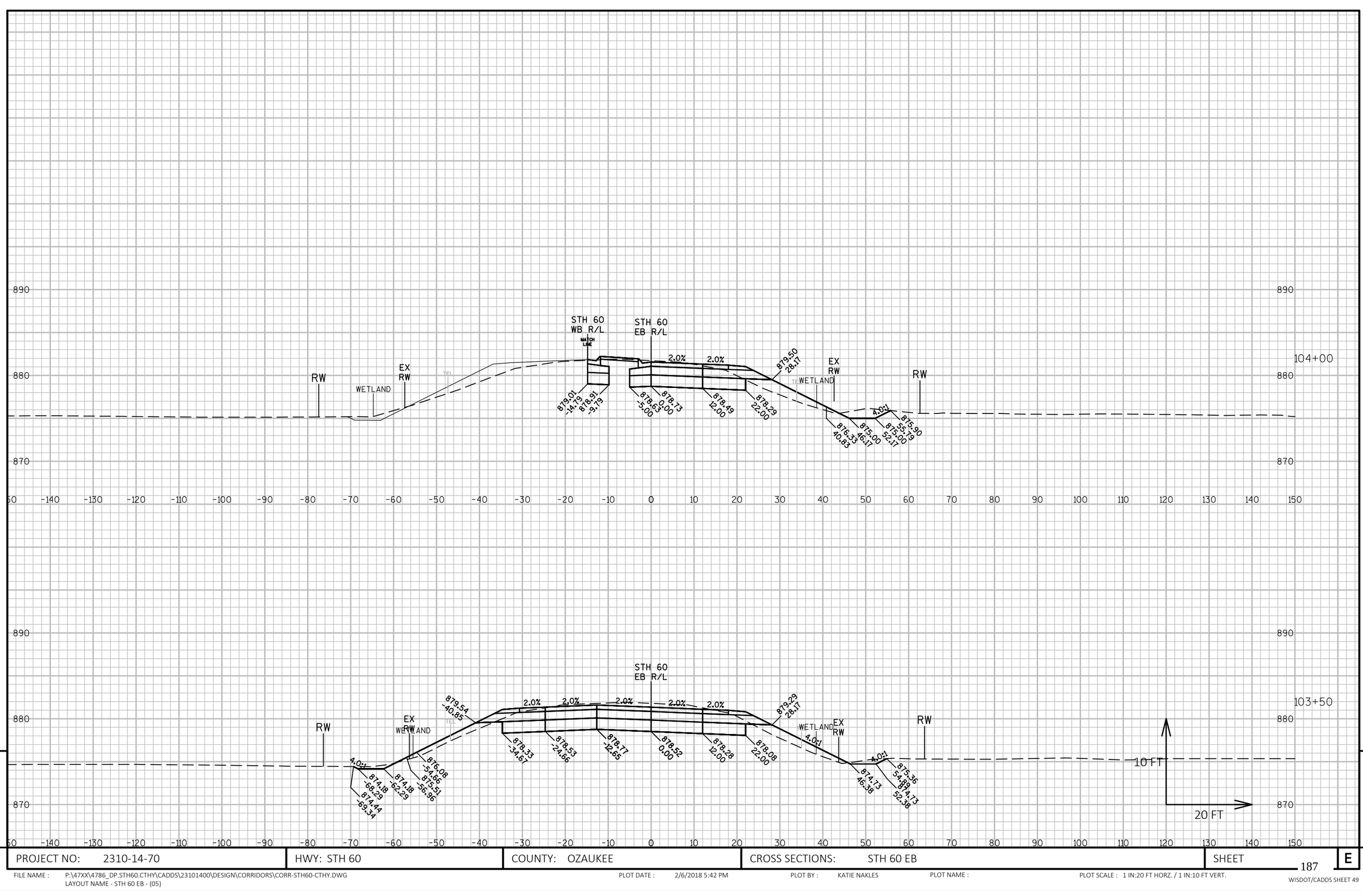
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 EB	SHEET 186	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 EB - (04)

PLOT DATE : 2/6/2018 5:42 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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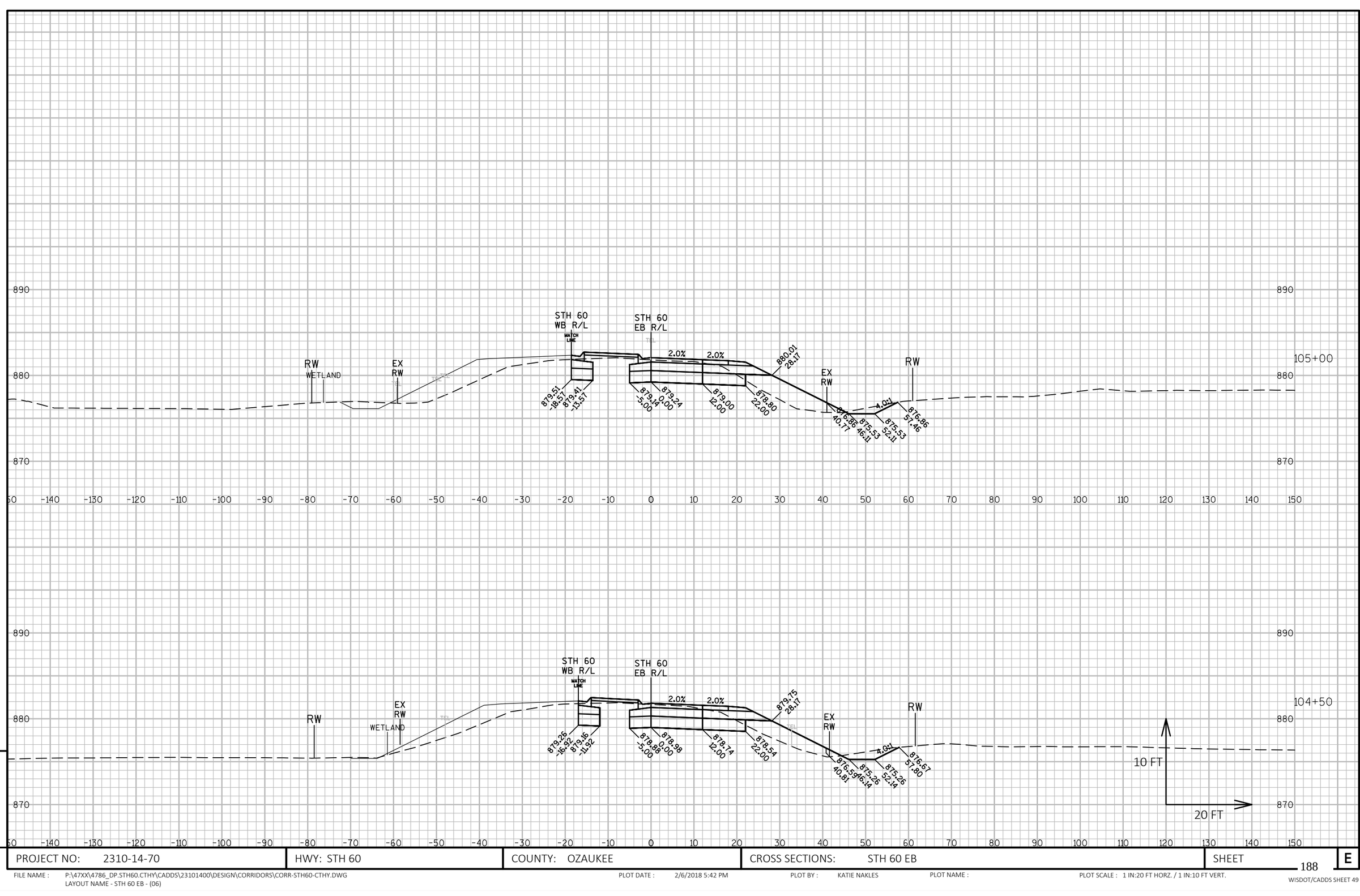
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 EB	SHEET 187	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 EB - (05)

PLOT DATE : 2/6/2018 5:42 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

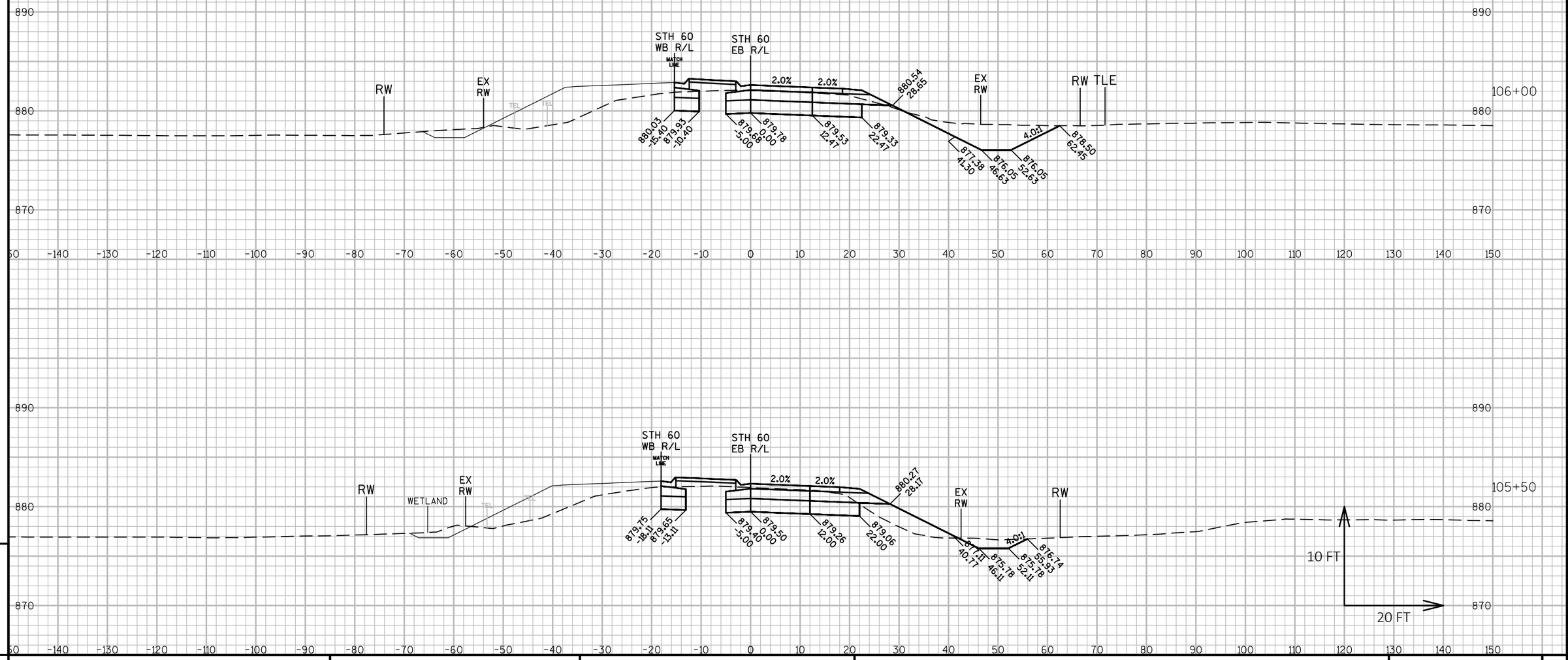


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 EB	SHEET 188 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 EB - (06)

PLOT DATE : 2/6/2018 5:42 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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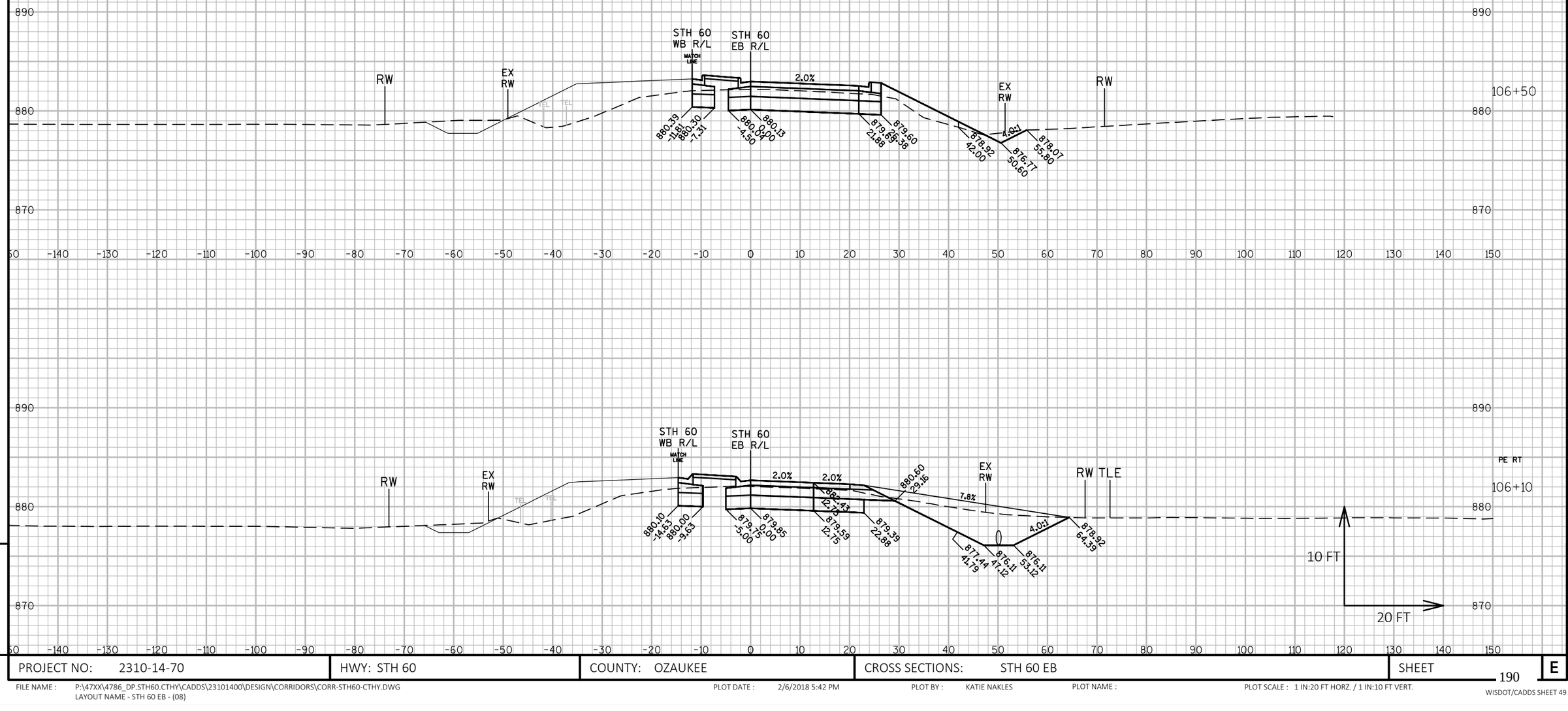
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 EB	SHEET 189 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 EB - (07)

PLOT DATE : 2/6/2018 5:42 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

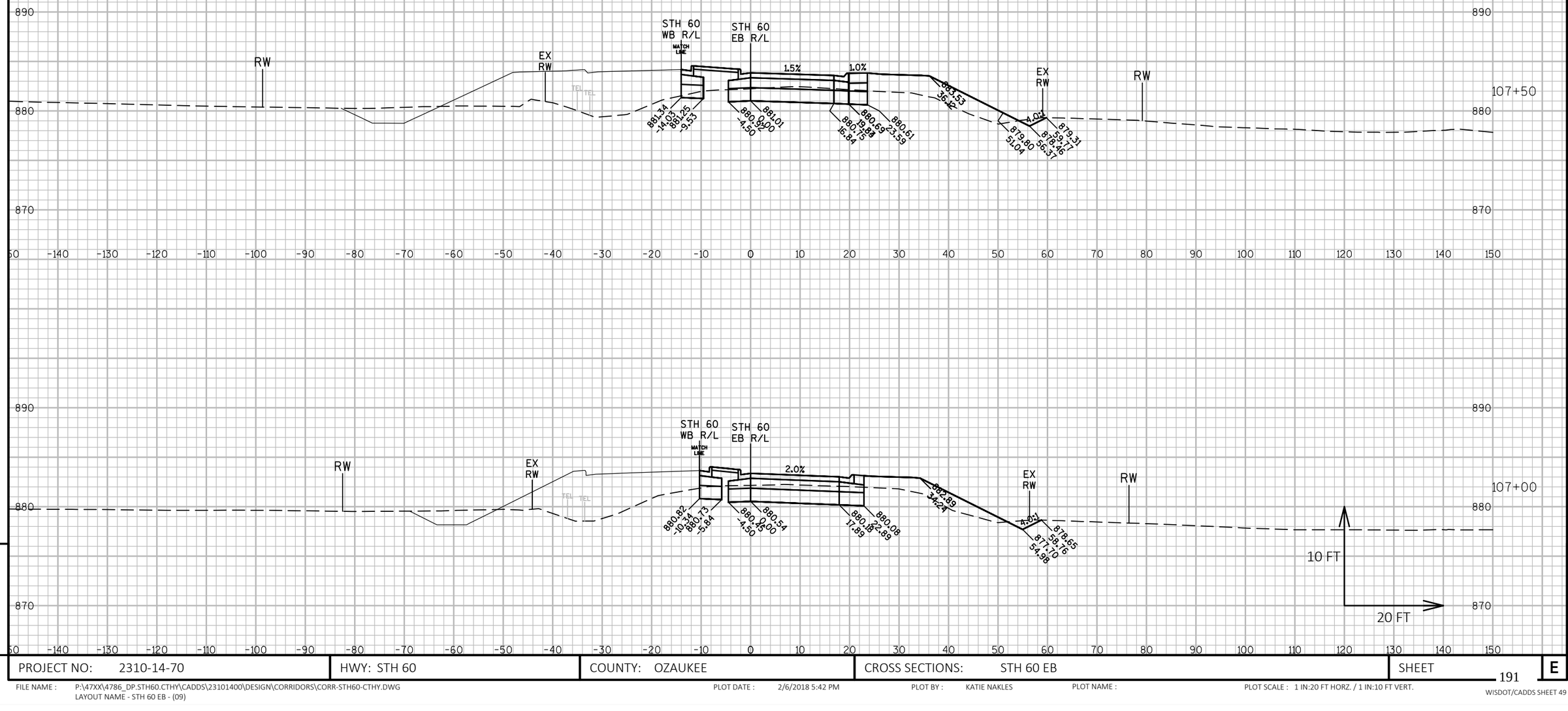


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 EB	SHEET 190	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 EB - (08)

PLOT DATE : 2/6/2018 5:42 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

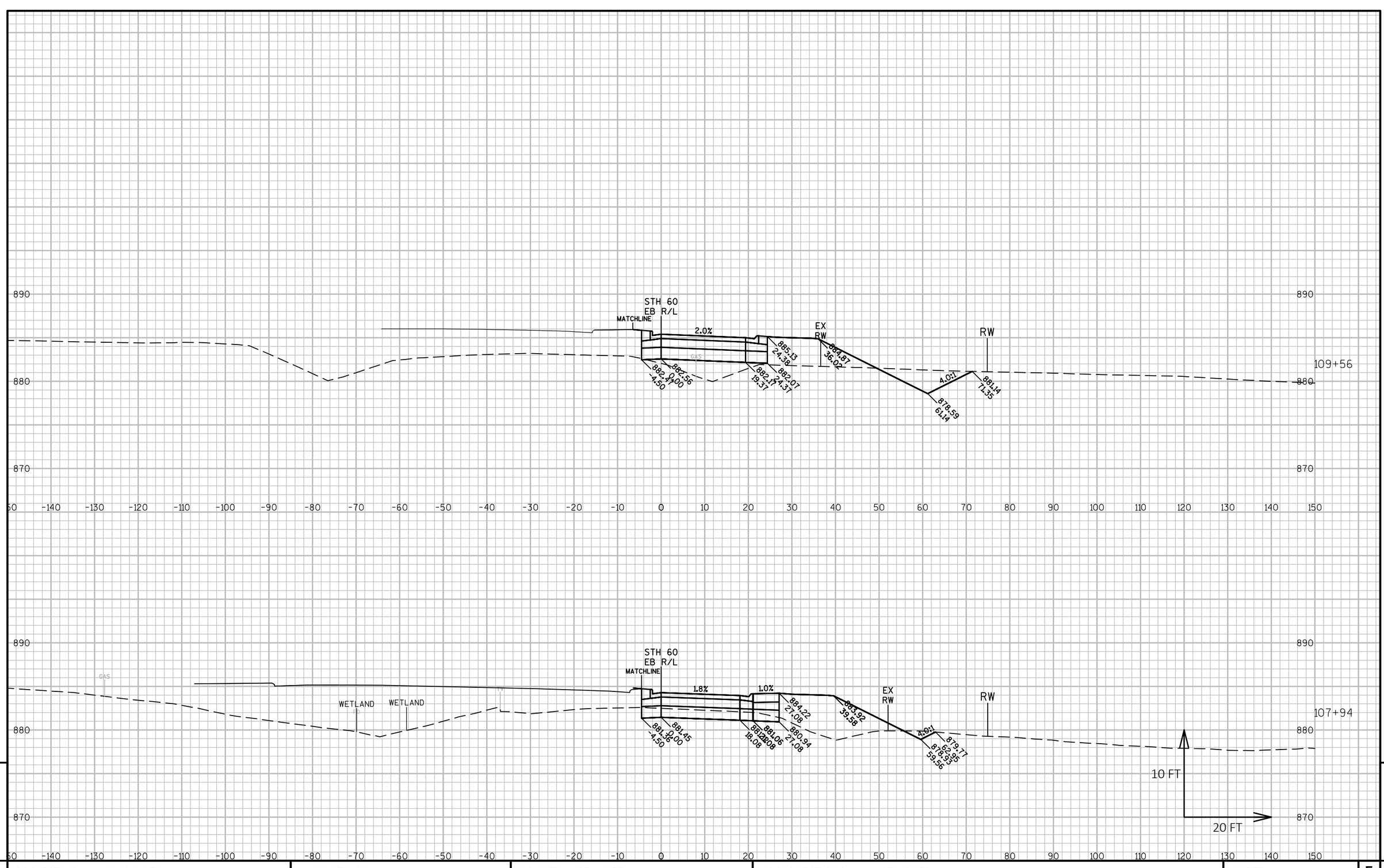


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 EB	SHEET 191 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 EB - (09)

PLOT DATE : 2/6/2018 5:42 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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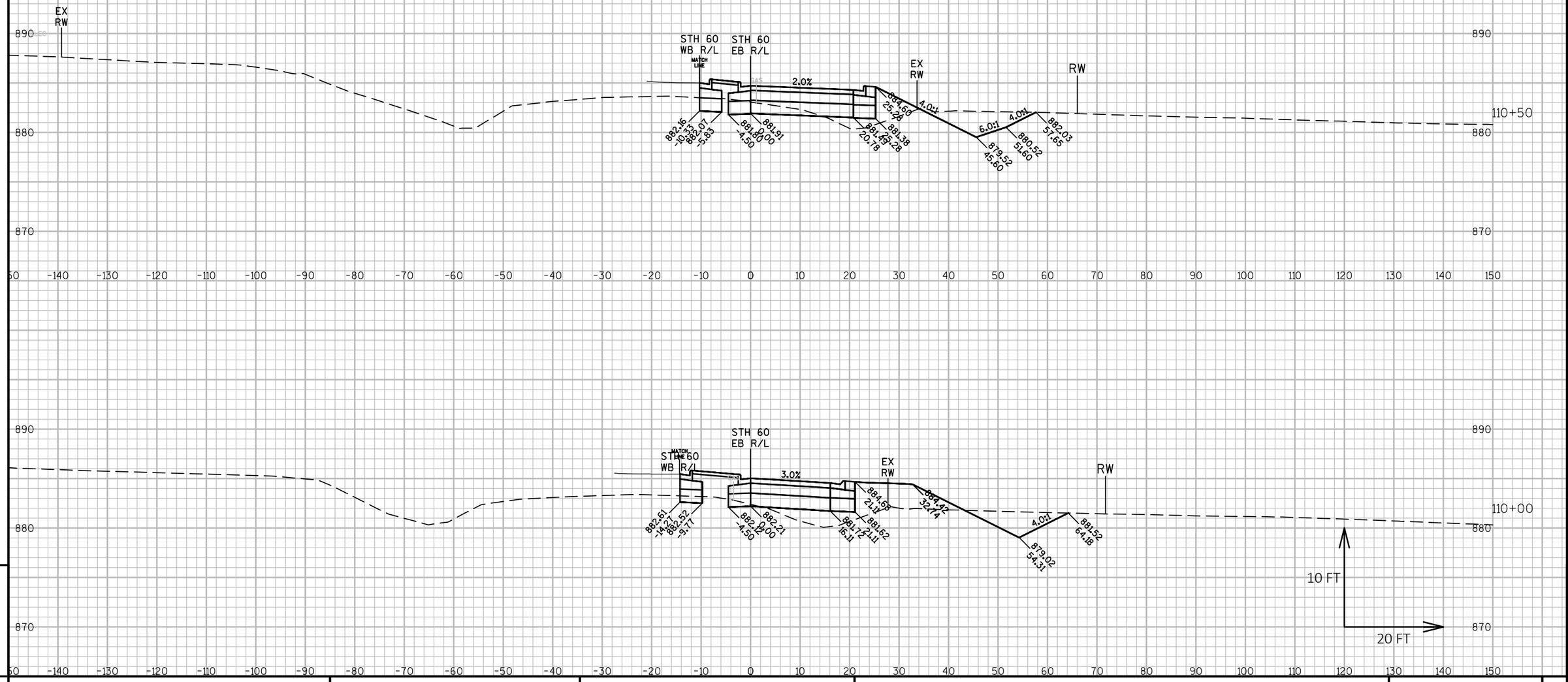
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 EB	SHEET 192	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 EB - (10)

PLOT DATE : 2/6/2018 5:42 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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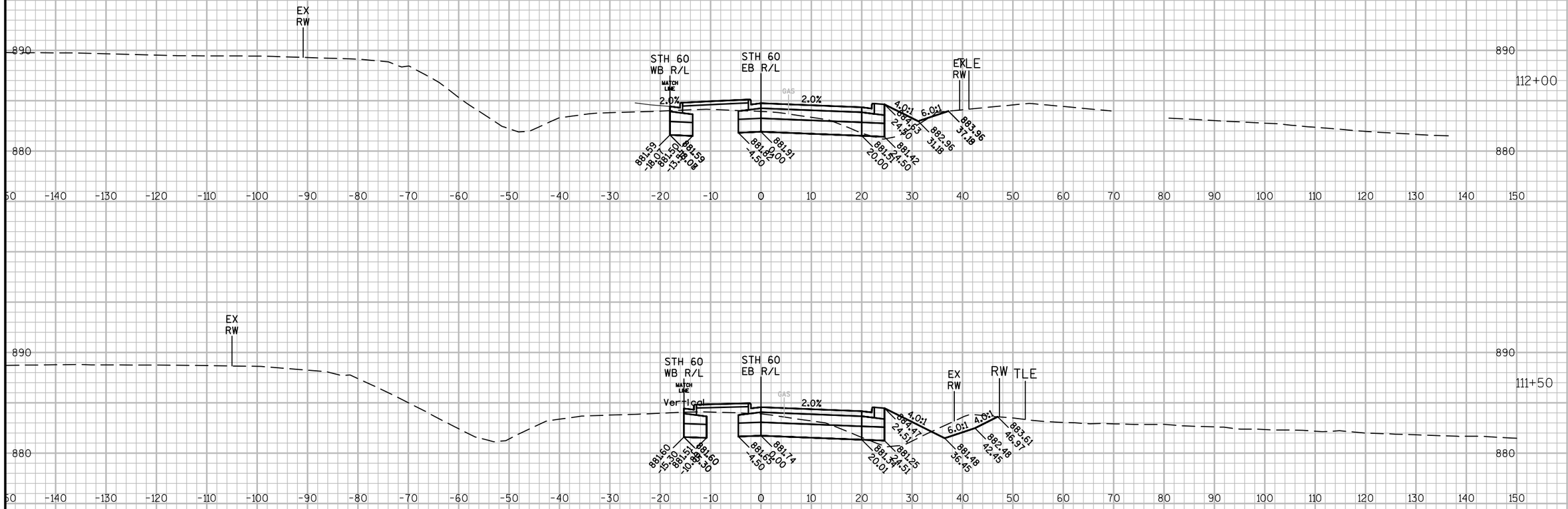
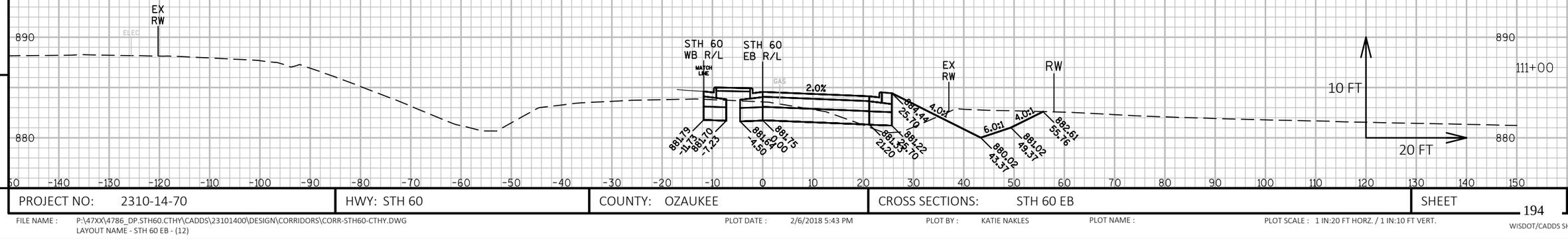
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 EB	SHEET 193	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 EB - (11)

PLOT DATE : 2/6/2018 5:43 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.





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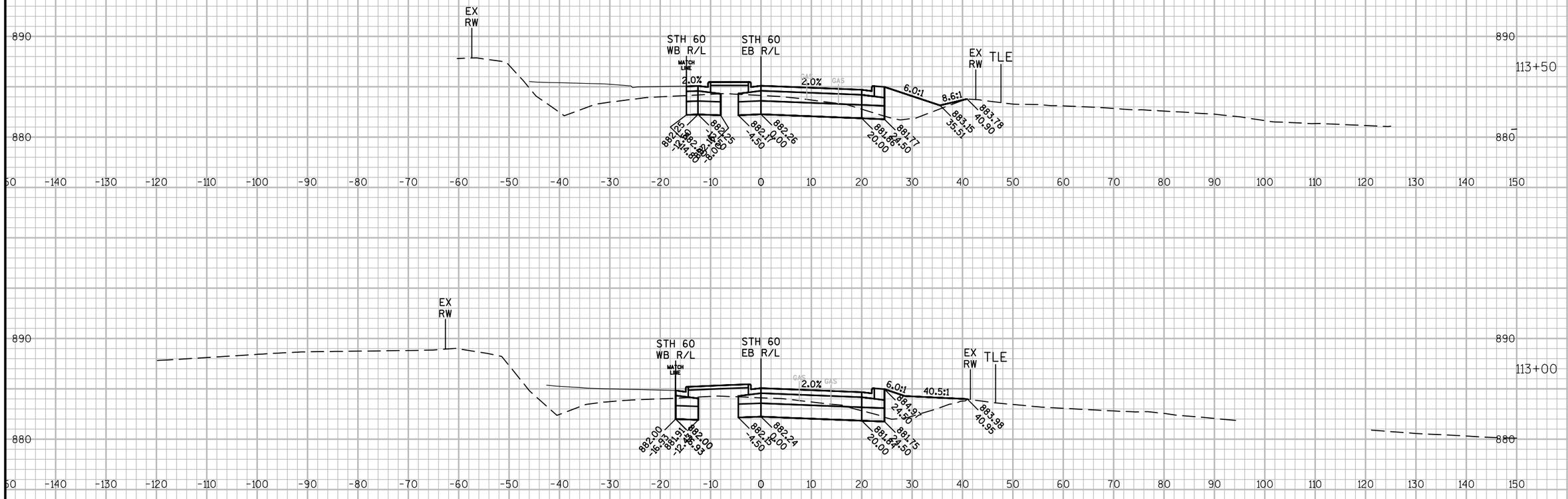
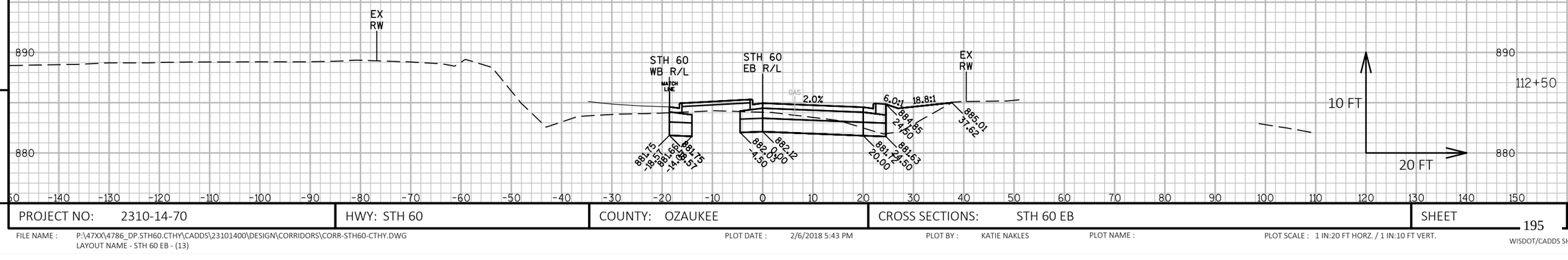
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 EB	SHEET 194	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 EB - (12)

PLOT DATE : 2/6/2018 5:43 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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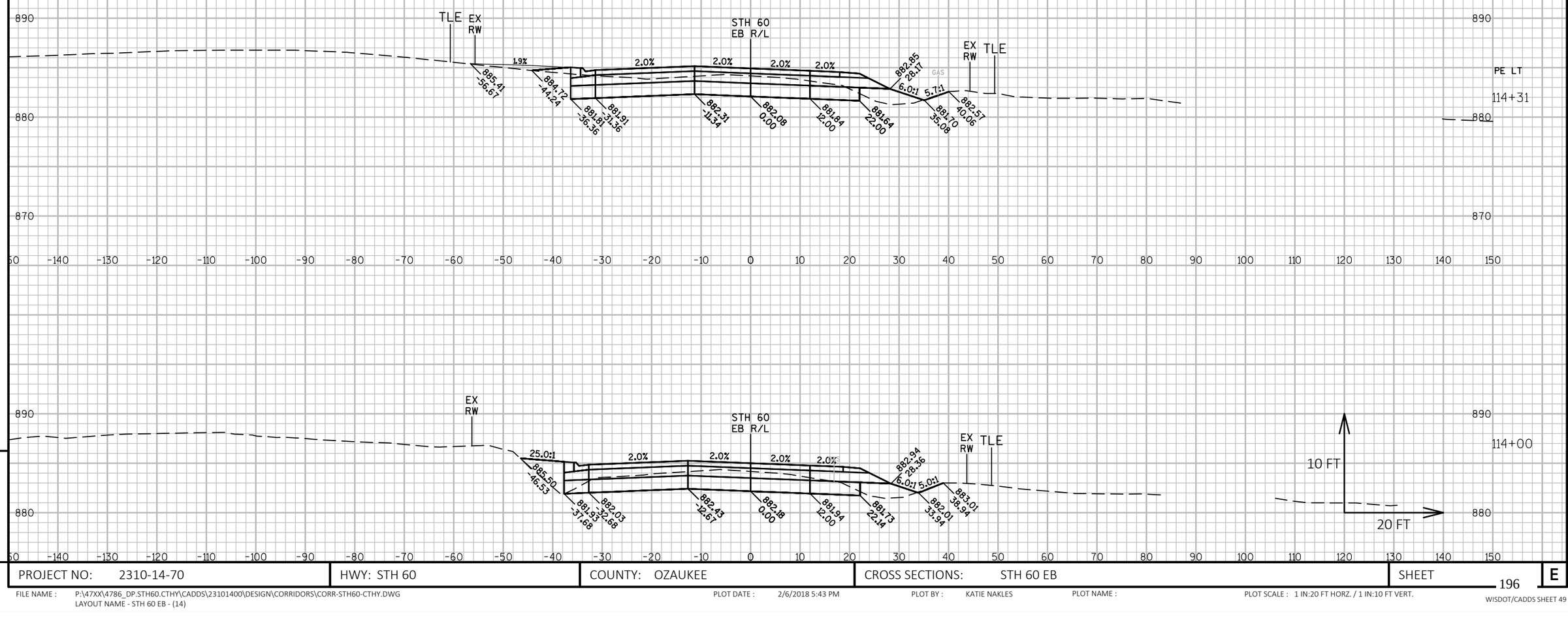
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 EB	SHEET 195	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 EB - (13)

PLOT DATE : 2/6/2018 5:43 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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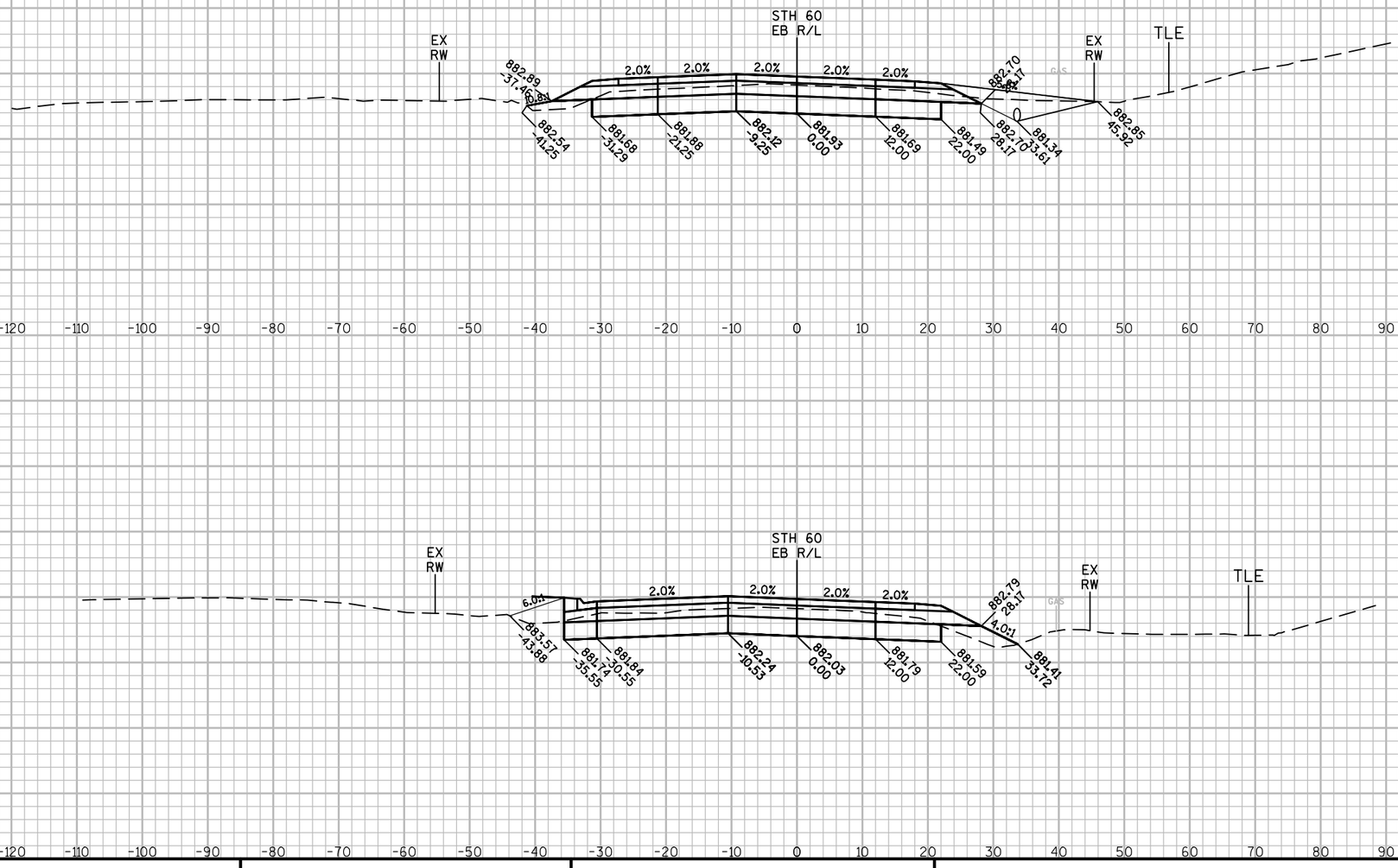
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 EB	SHEET 196	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 EB - (14)

PLOT DATE : 2/6/2018 5:43 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

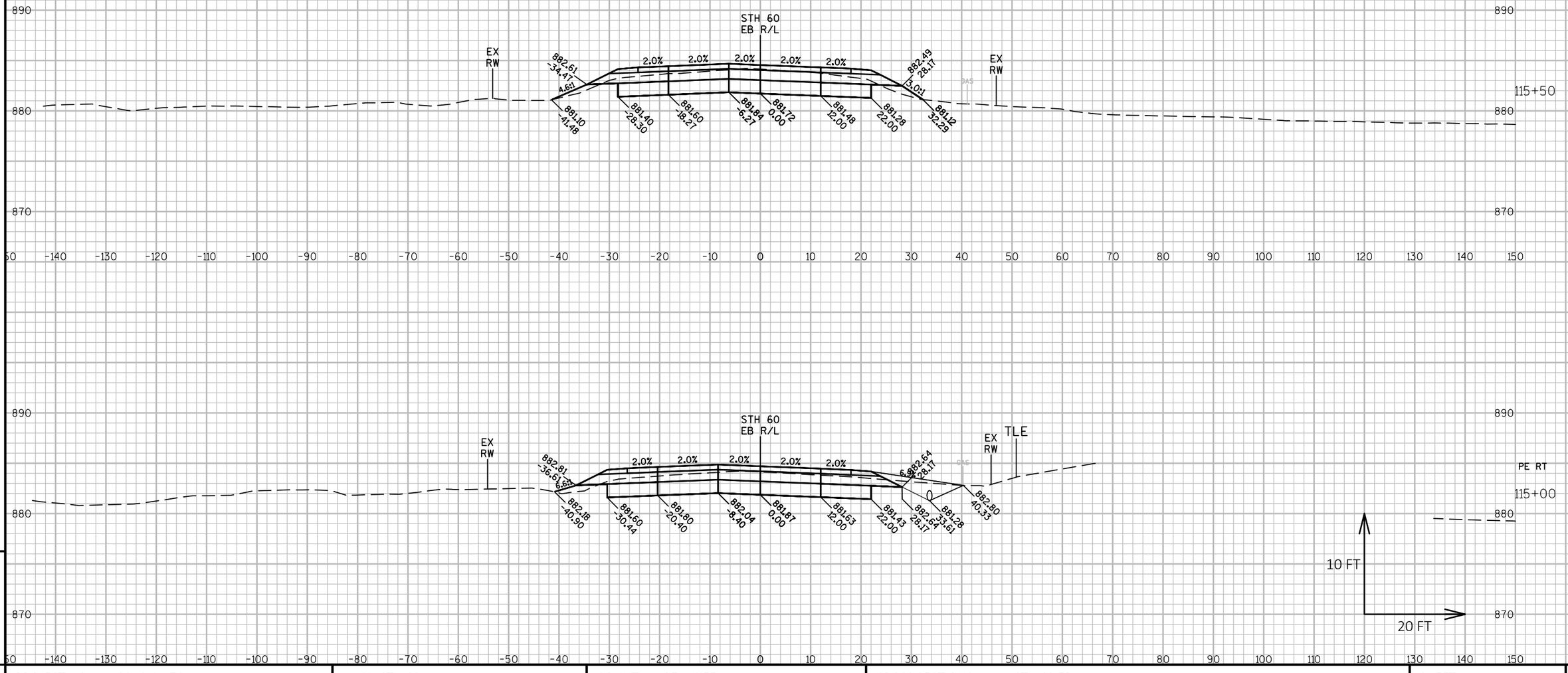


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 EB	SHEET 197 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 EB - (15)

PLOT DATE : 2/6/2018 5:43 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

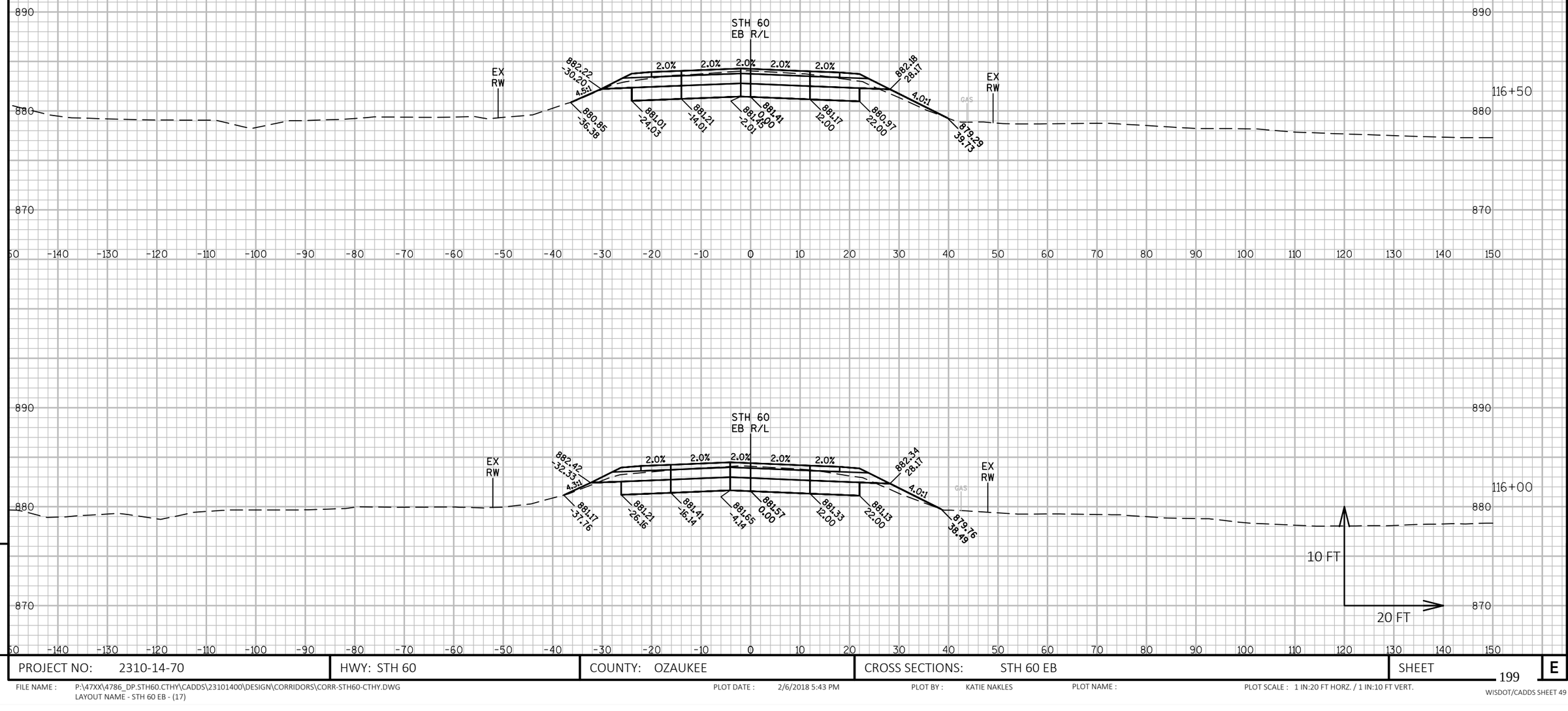


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 EB	SHEET 198 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 EB - (16)

PLOT DATE : 2/6/2018 5:43 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

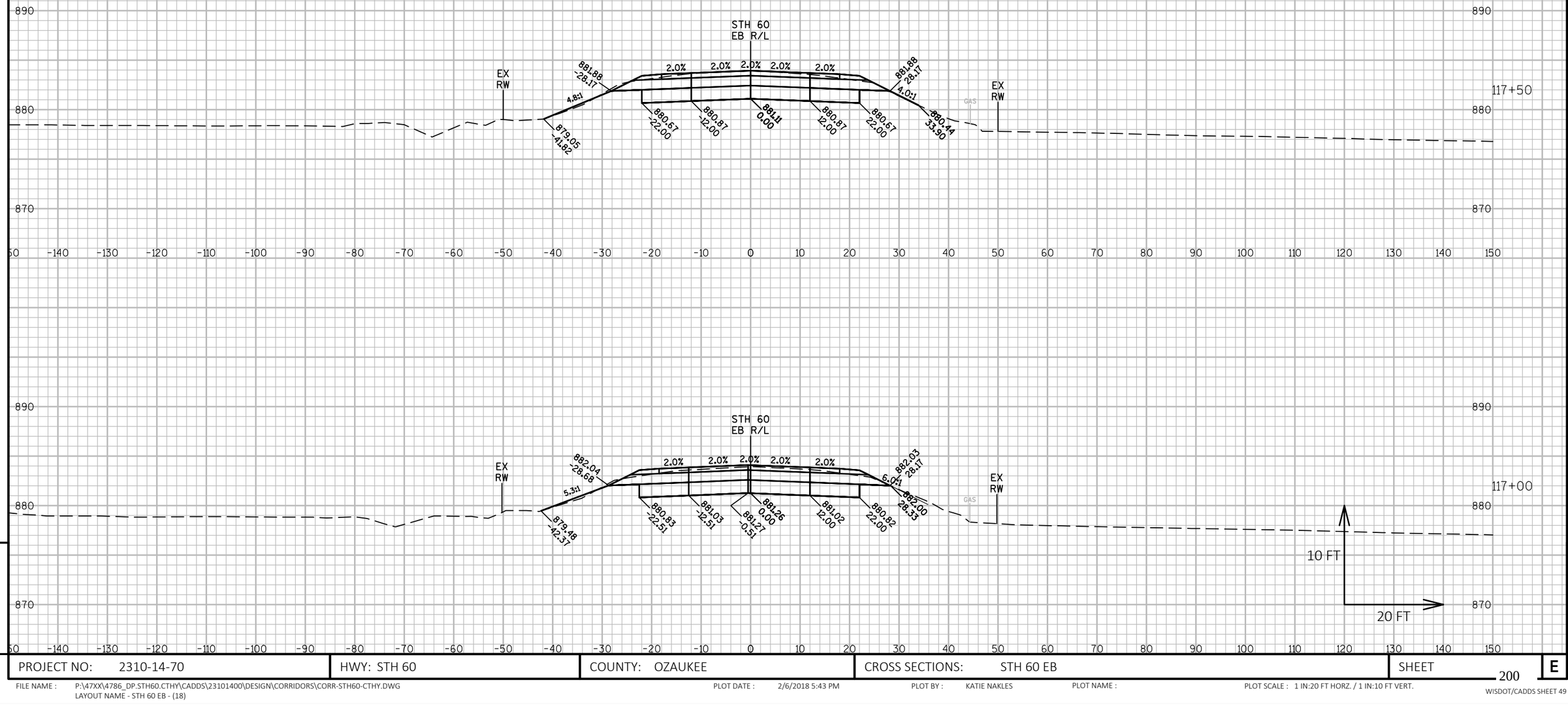


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 EB	SHEET 199 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 EB - (17)

PLOT DATE : 2/6/2018 5:43 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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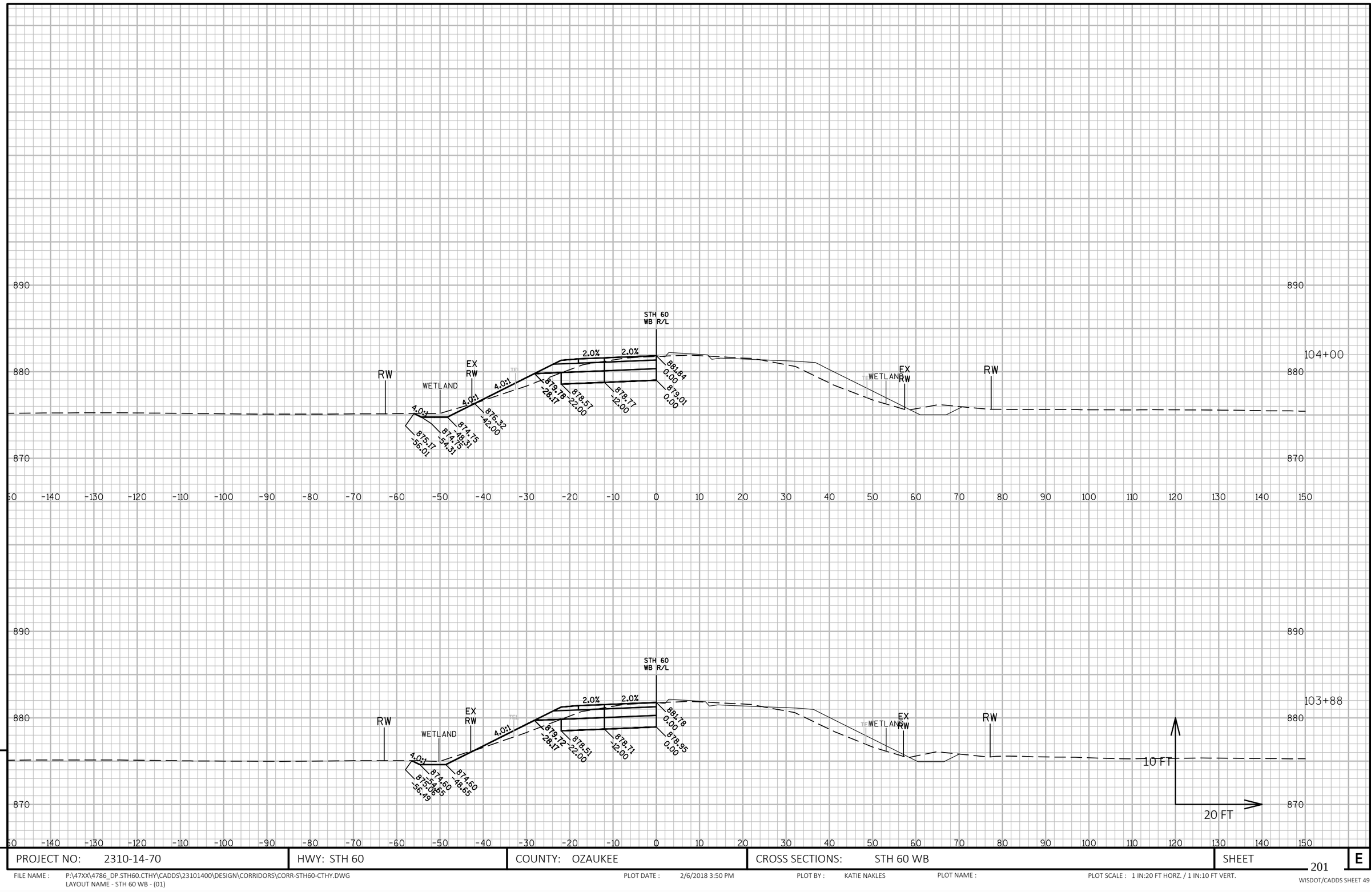
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 EB	SHEET 200	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 EB - (18)

PLOT DATE : 2/6/2018 5:43 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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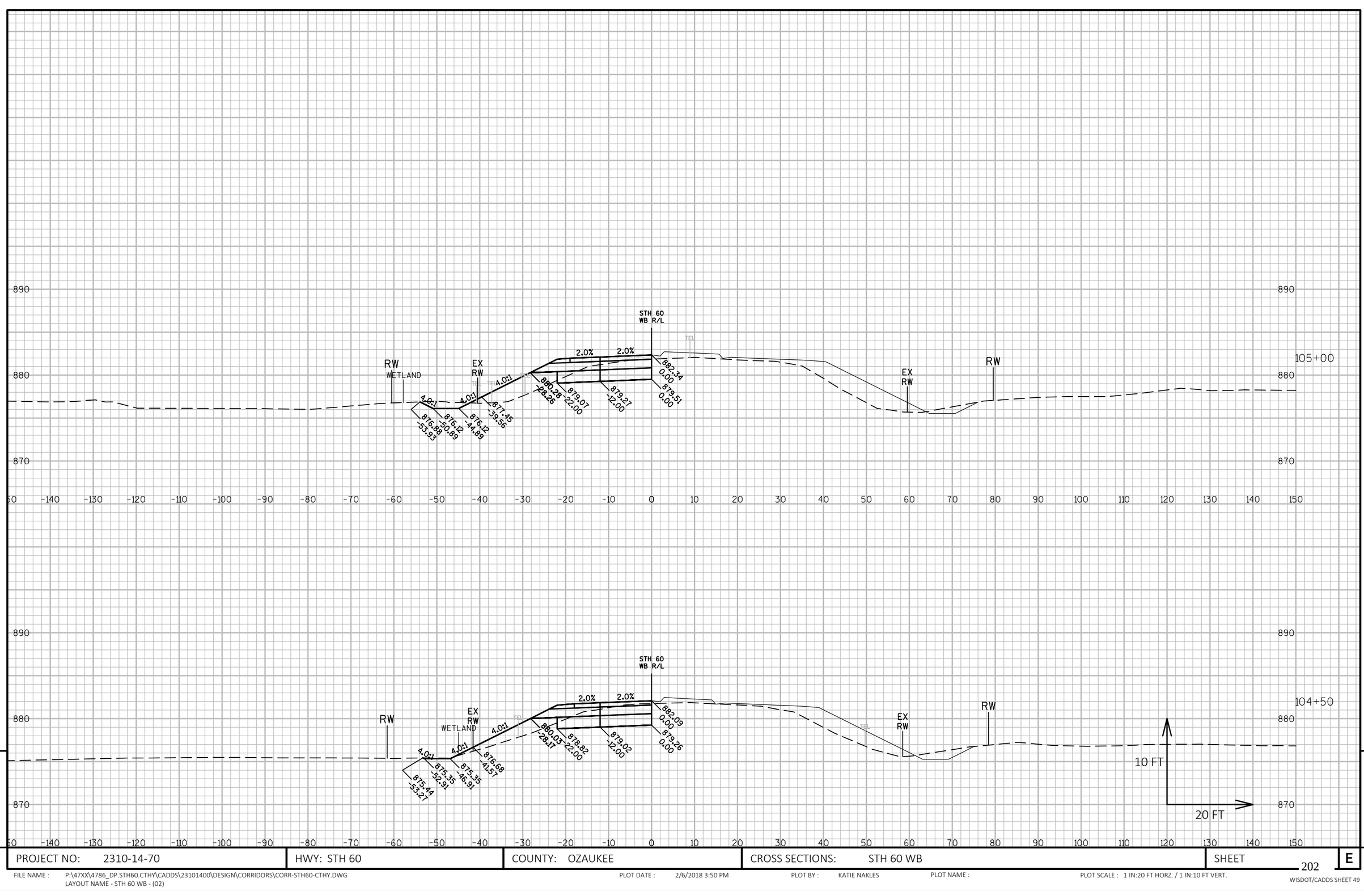
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 WB	SHEET 201	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 WB - (01)

PLOT DATE : 2/6/2018 3:50 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

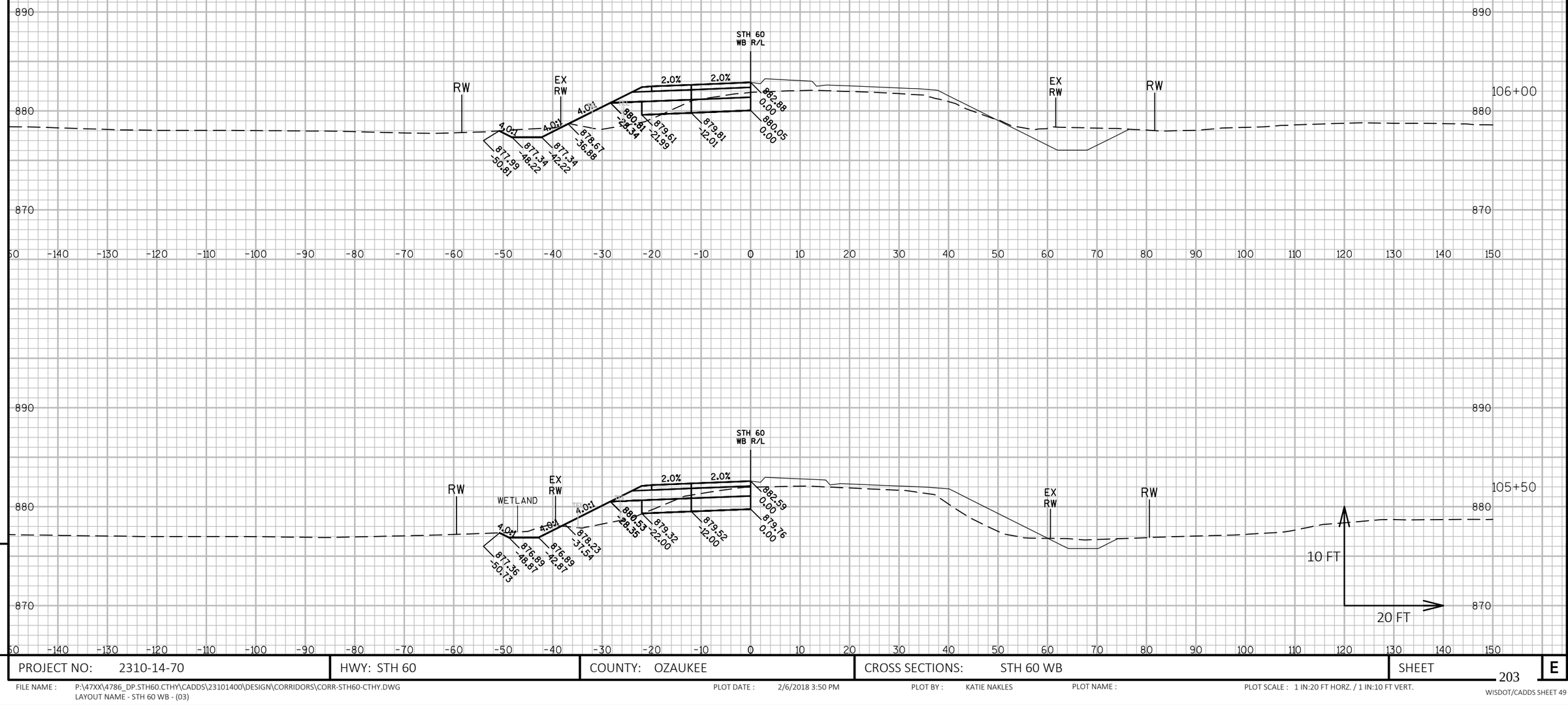


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 WB	SHEET 202	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 WB - (02)

PLOT DATE : 2/6/2018 3:50 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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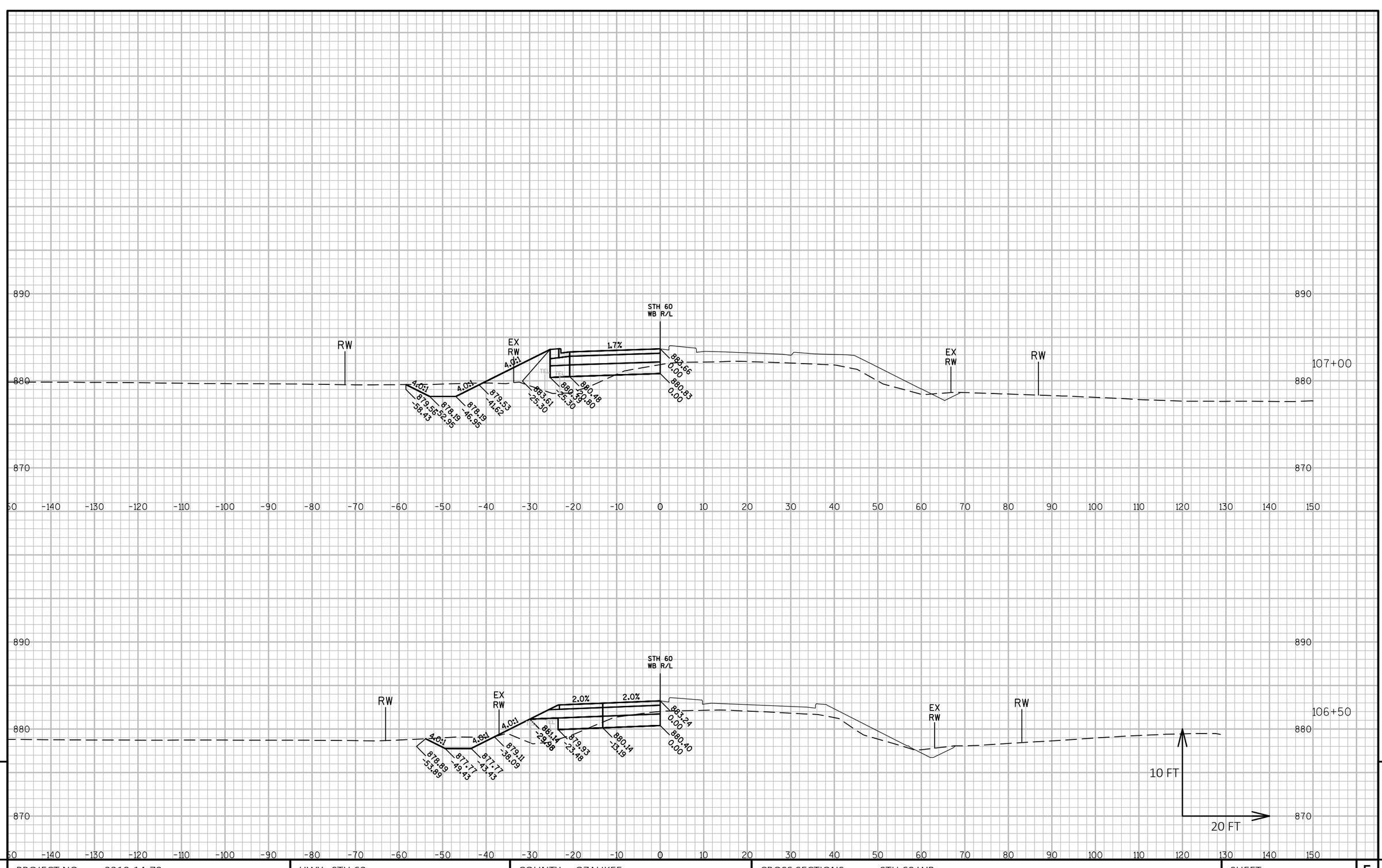
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 WB	SHEET 203 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 WB - (03)

PLOT DATE : 2/6/2018 3:50 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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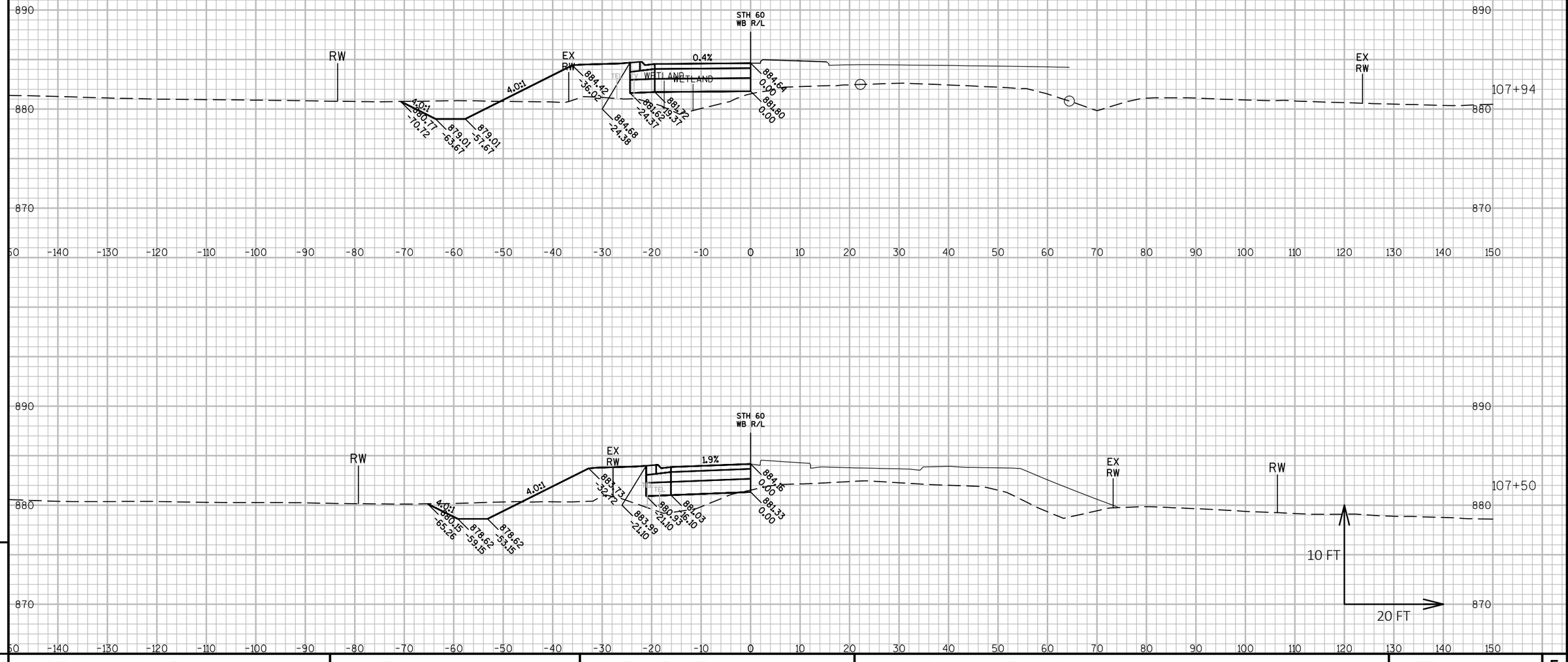
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 WB	SHEET 204	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 WB - (04)

PLOT DATE : 2/6/2018 3:50 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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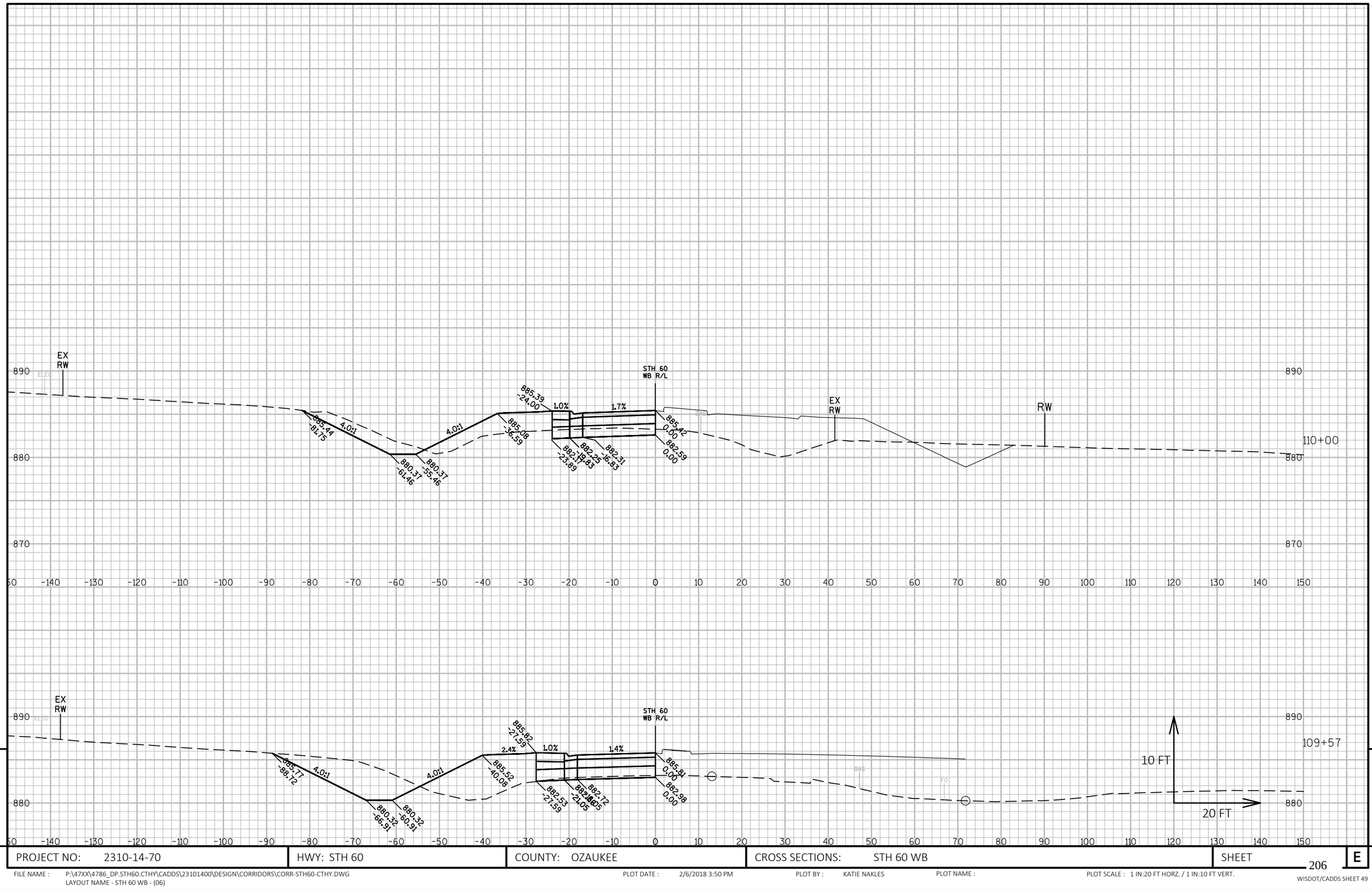
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 WB	SHEET 205 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 WB - (05)

PLOT DATE : 2/6/2018 3:50 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

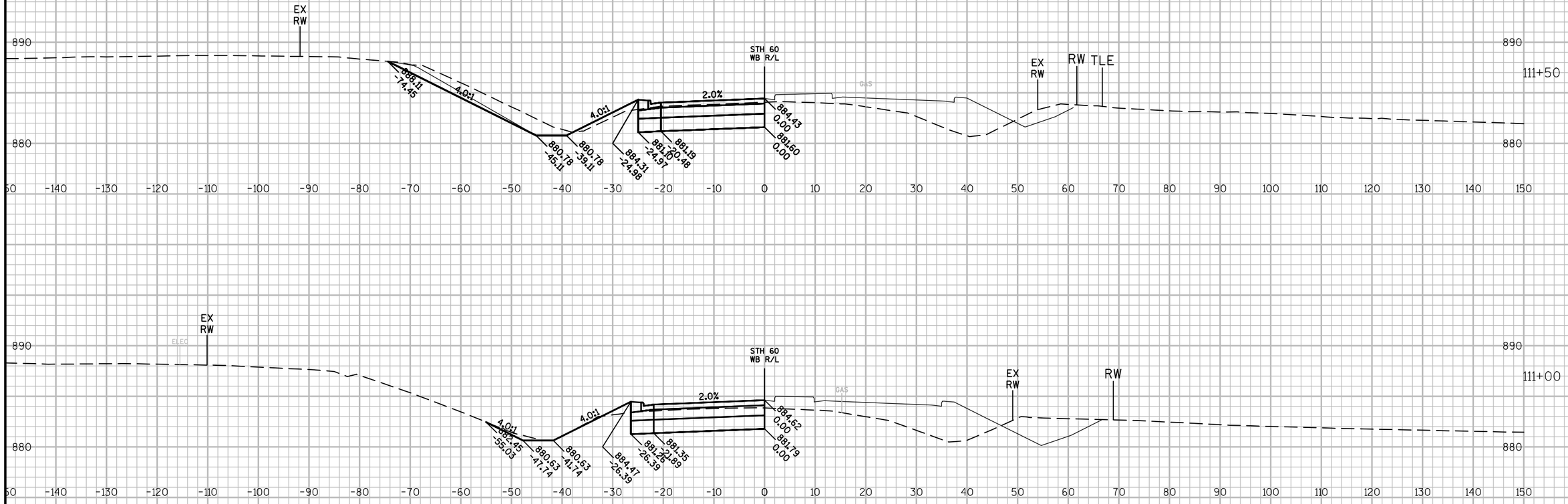


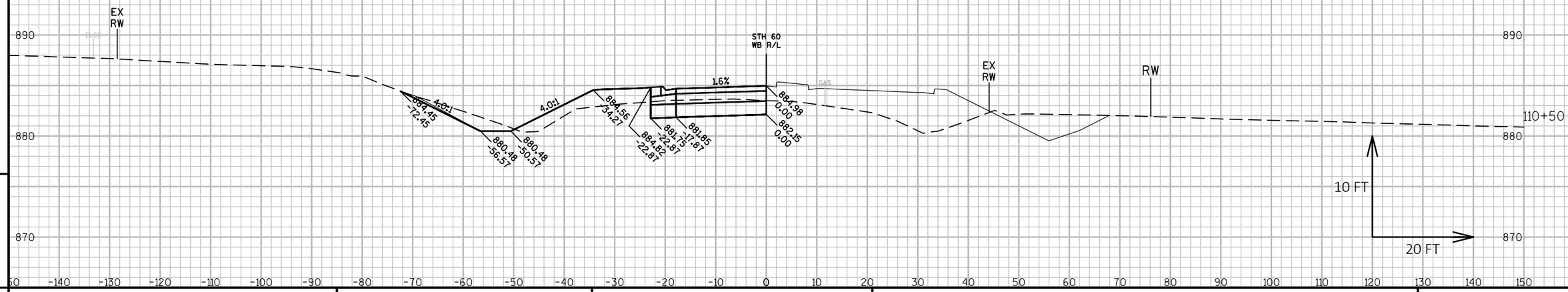
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 WB	SHEET 206	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 WB - (06)

PLOT DATE : 2/6/2018 3:50 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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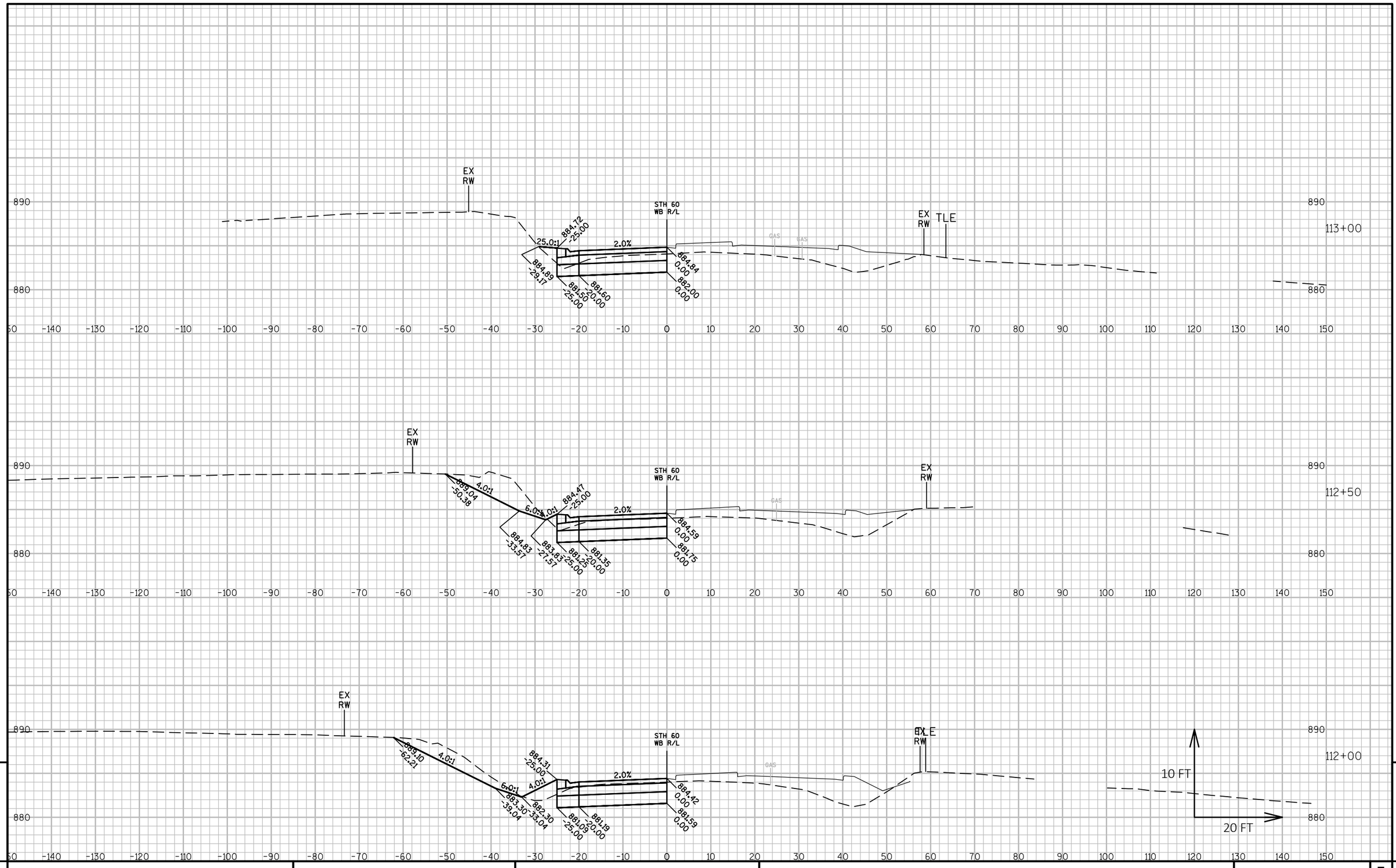
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 WB	SHEET 207	E

9

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 WB - (07)

PLOT DATE : 2/6/2018 3:50 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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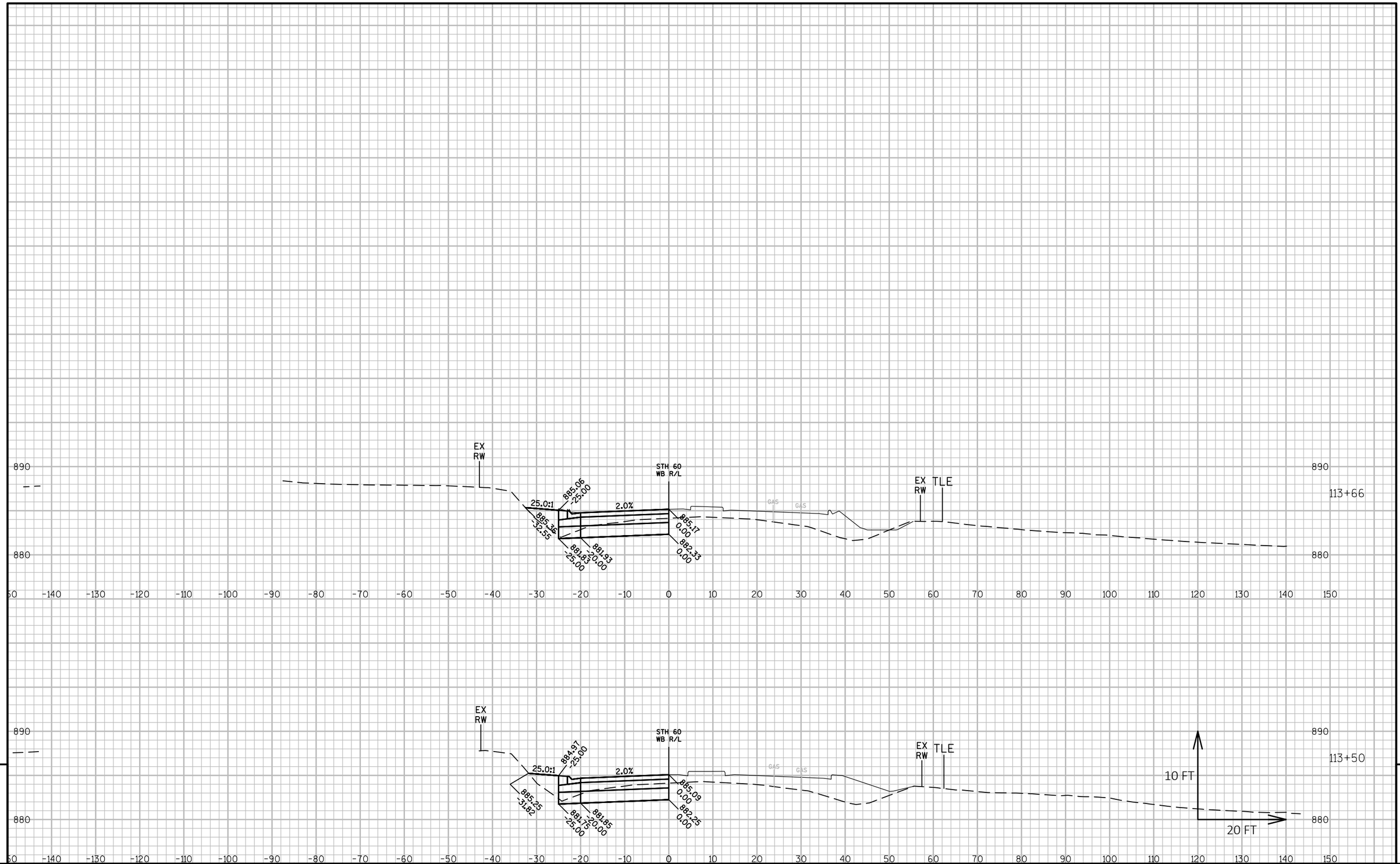
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 WB	SHEET 208	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 WB - (08)

PLOT DATE : 2/6/2018 3:50 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

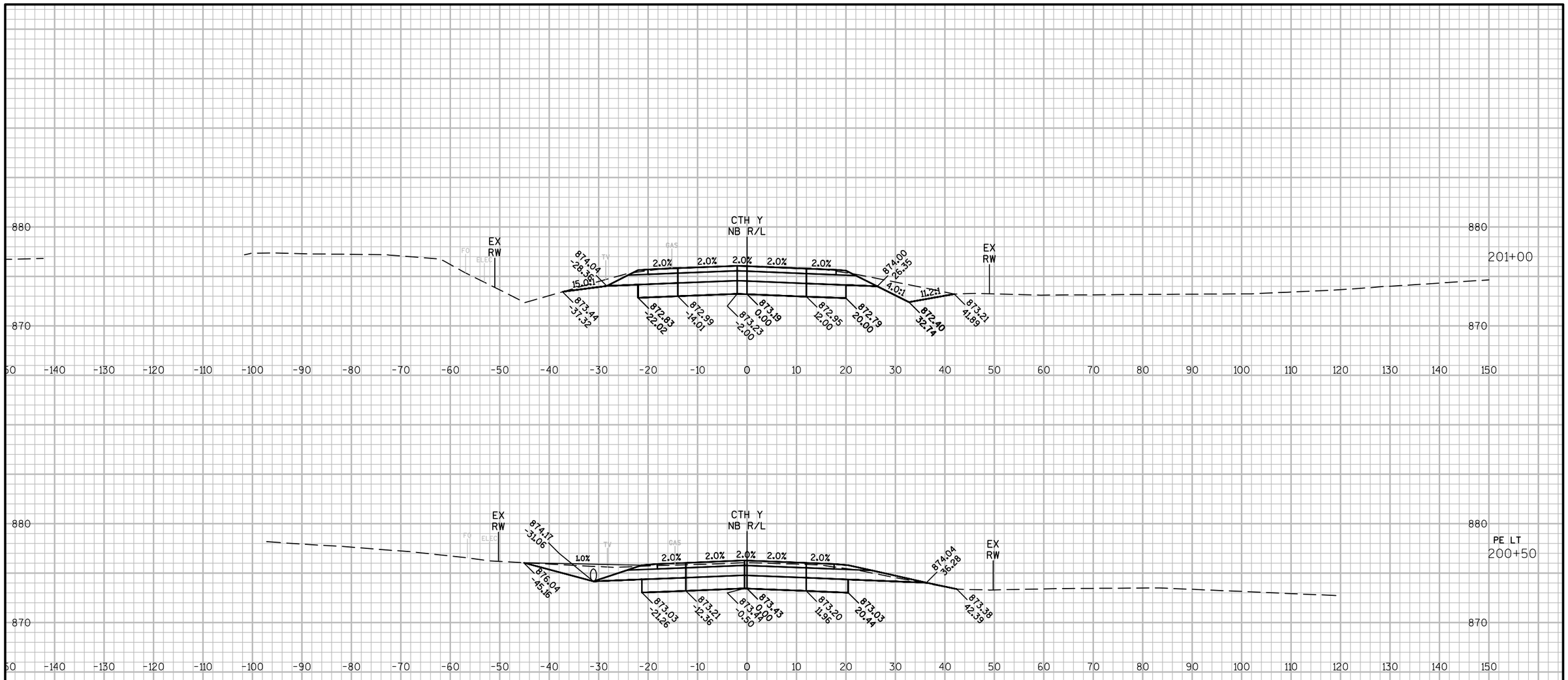
9

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: STH 60 WB	SHEET 209	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - STH 60 WB - (09)

PLOT DATE : 2/6/2018 3:51 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

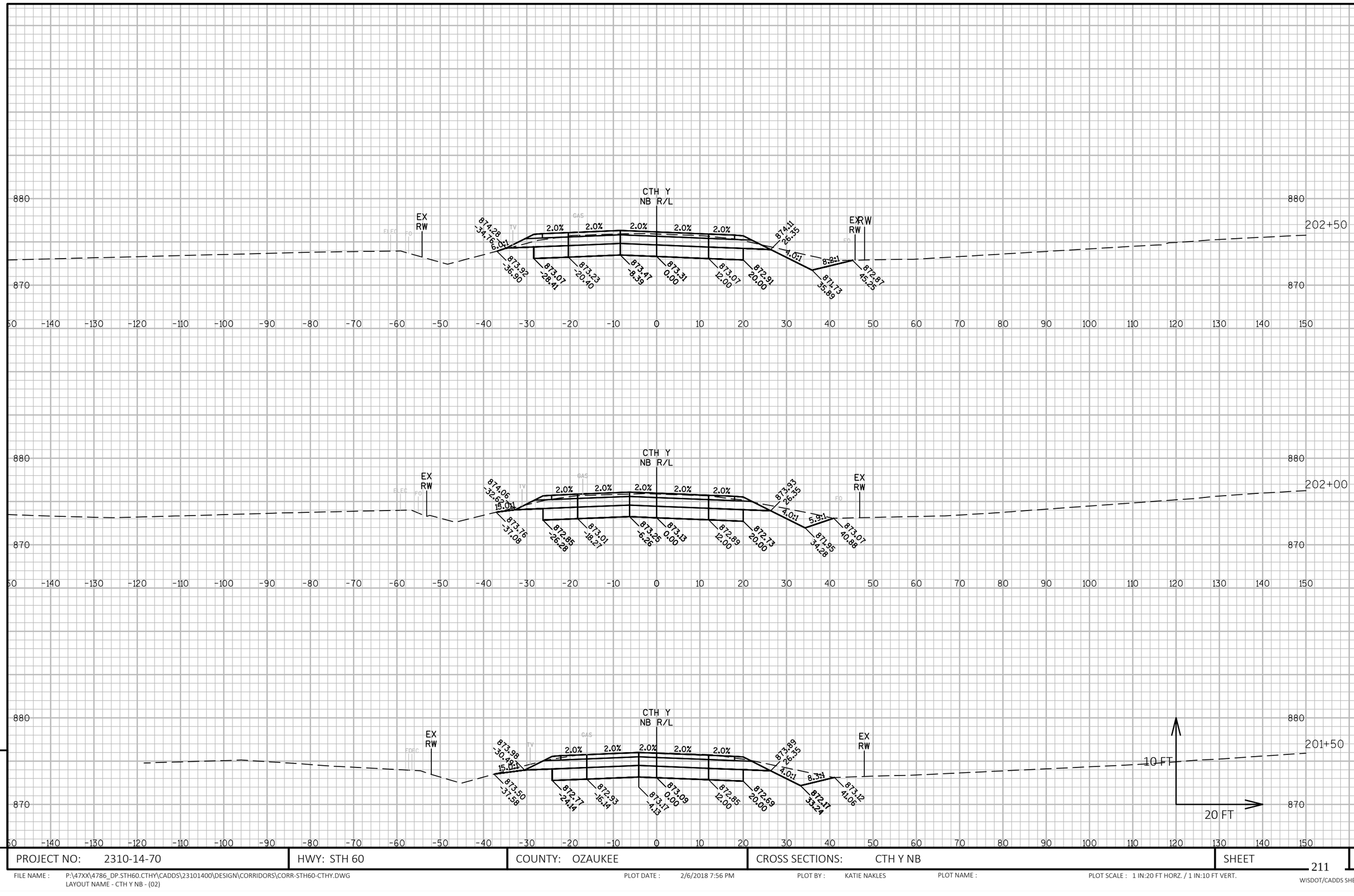
9

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y NB	SHEET 210	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y NB - (01)

PLOT DATE : 2/6/2018 7:56 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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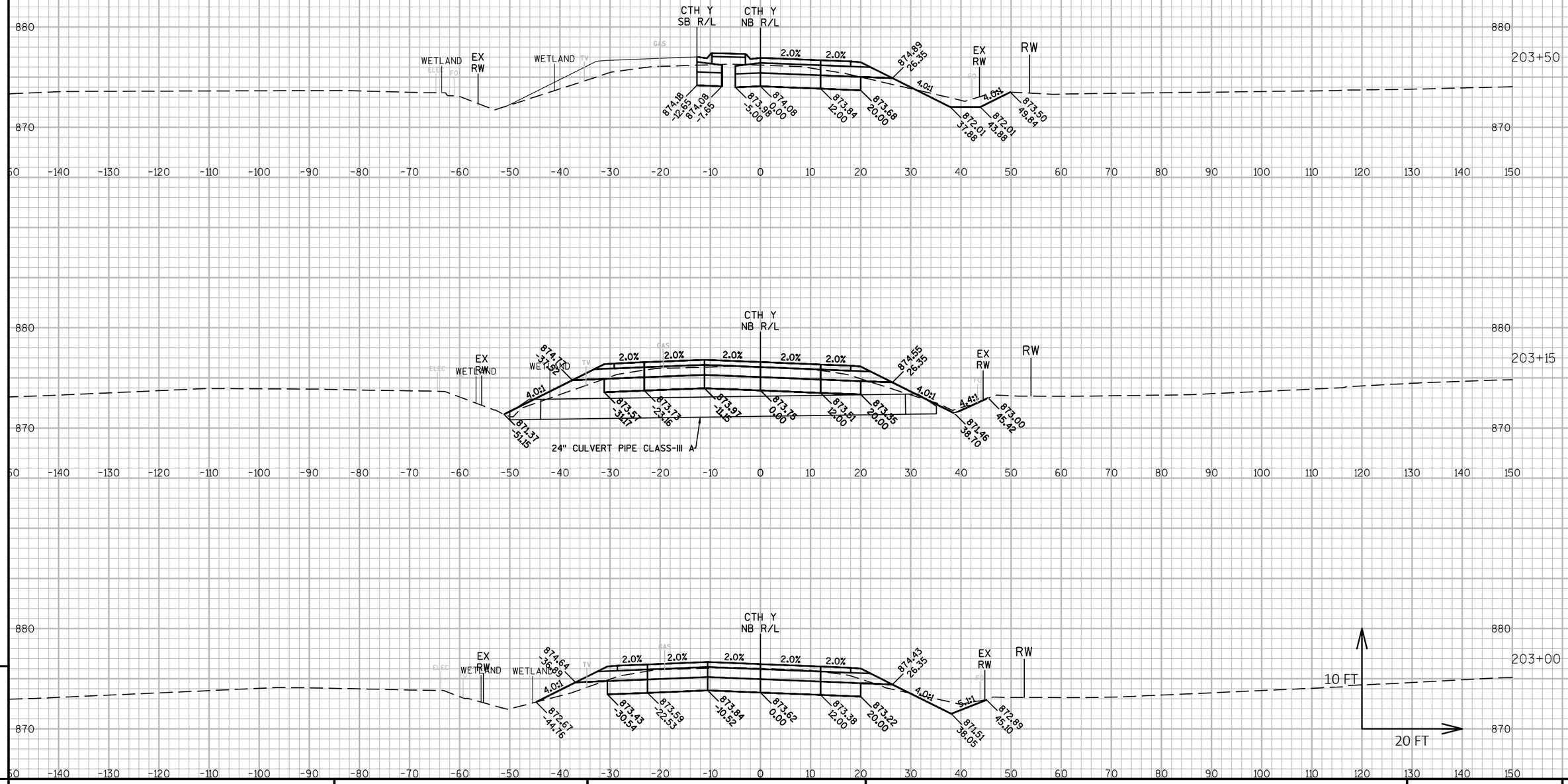
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y NB	SHEET 211	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y NB - (02)

PLOT DATE : 2/6/2018 7:56 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

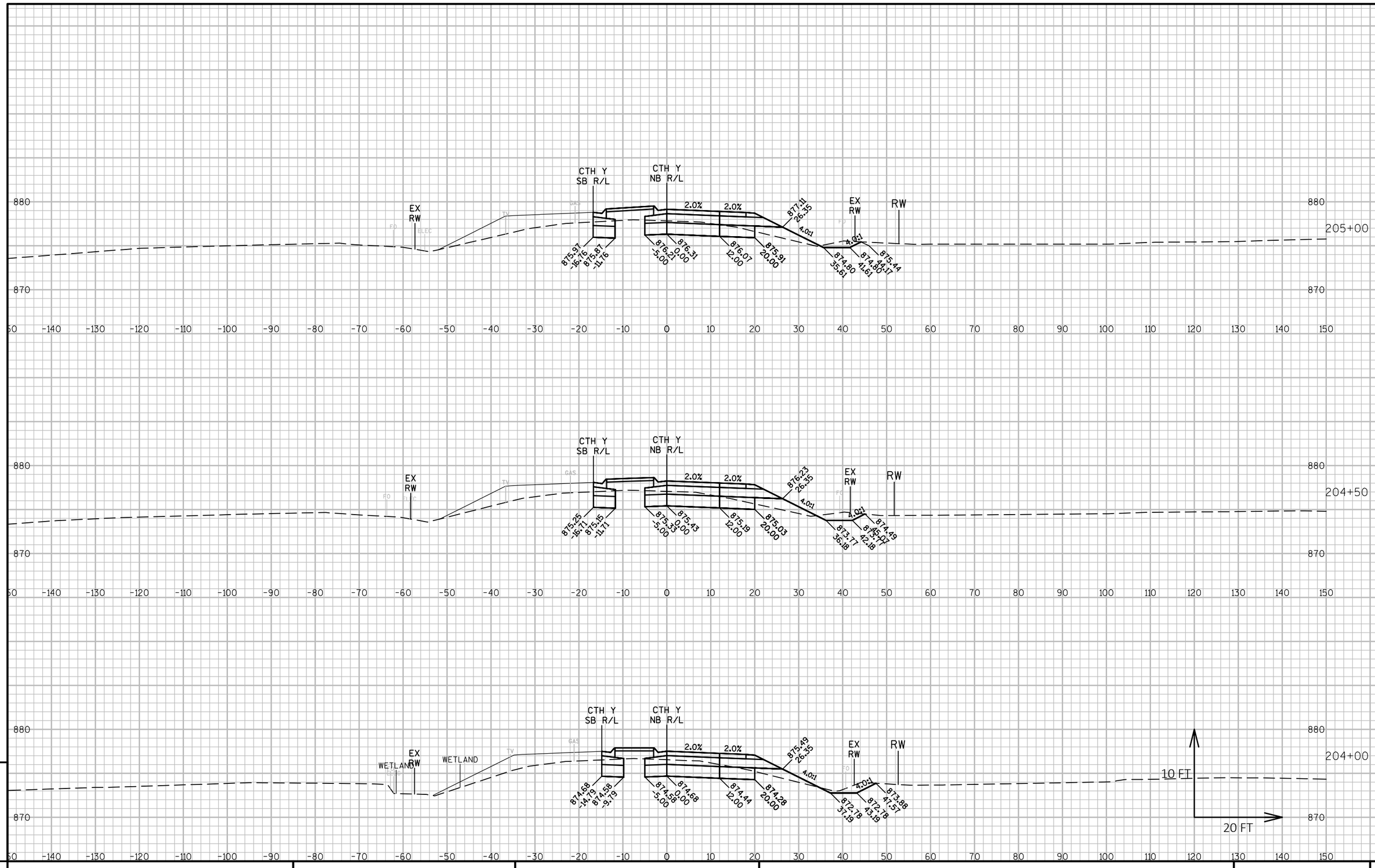


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y NB	SHEET 212	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y NB - (03)

PLOT DATE : 2/6/2018 7:56 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

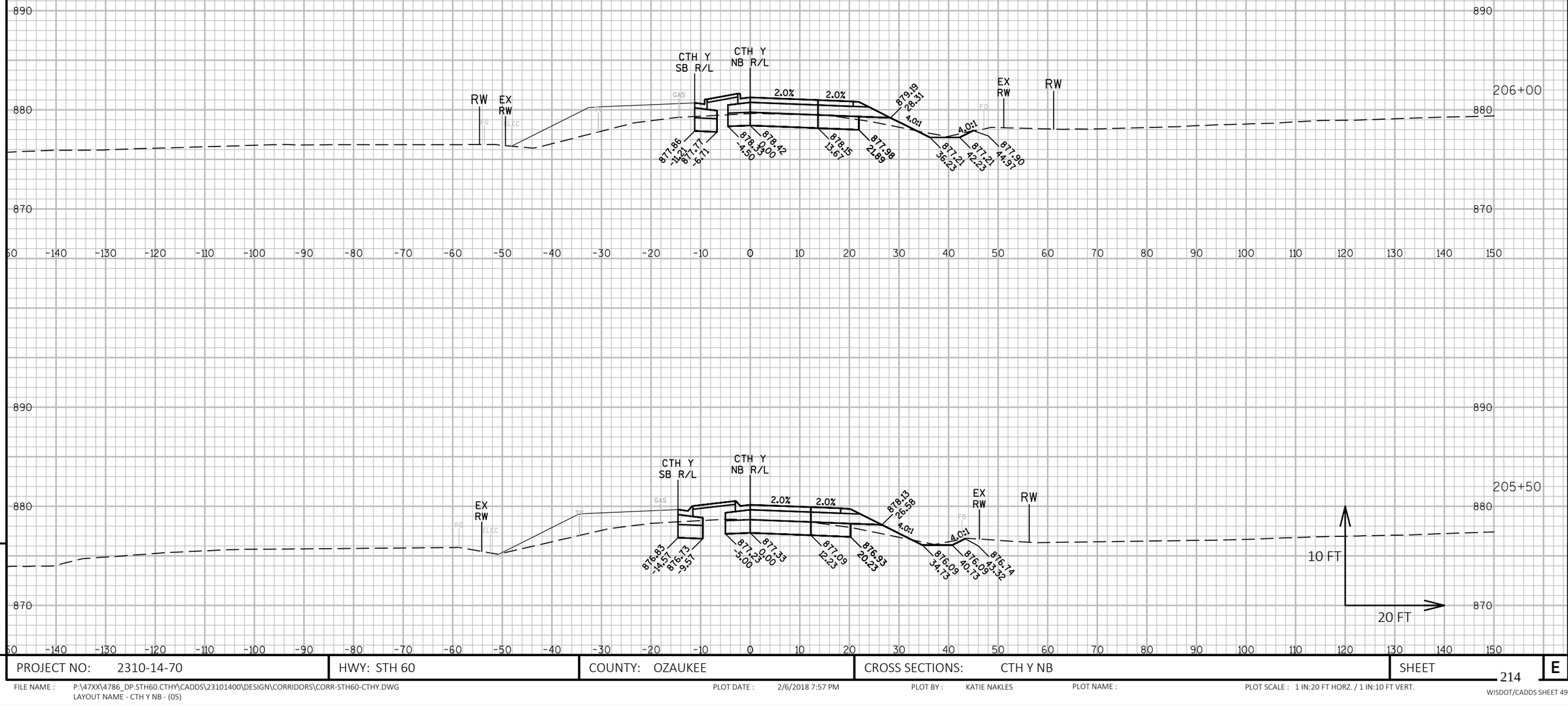


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y NB	SHEET 213	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y NB - (04)

PLOT DATE : 2/6/2018 7:57 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

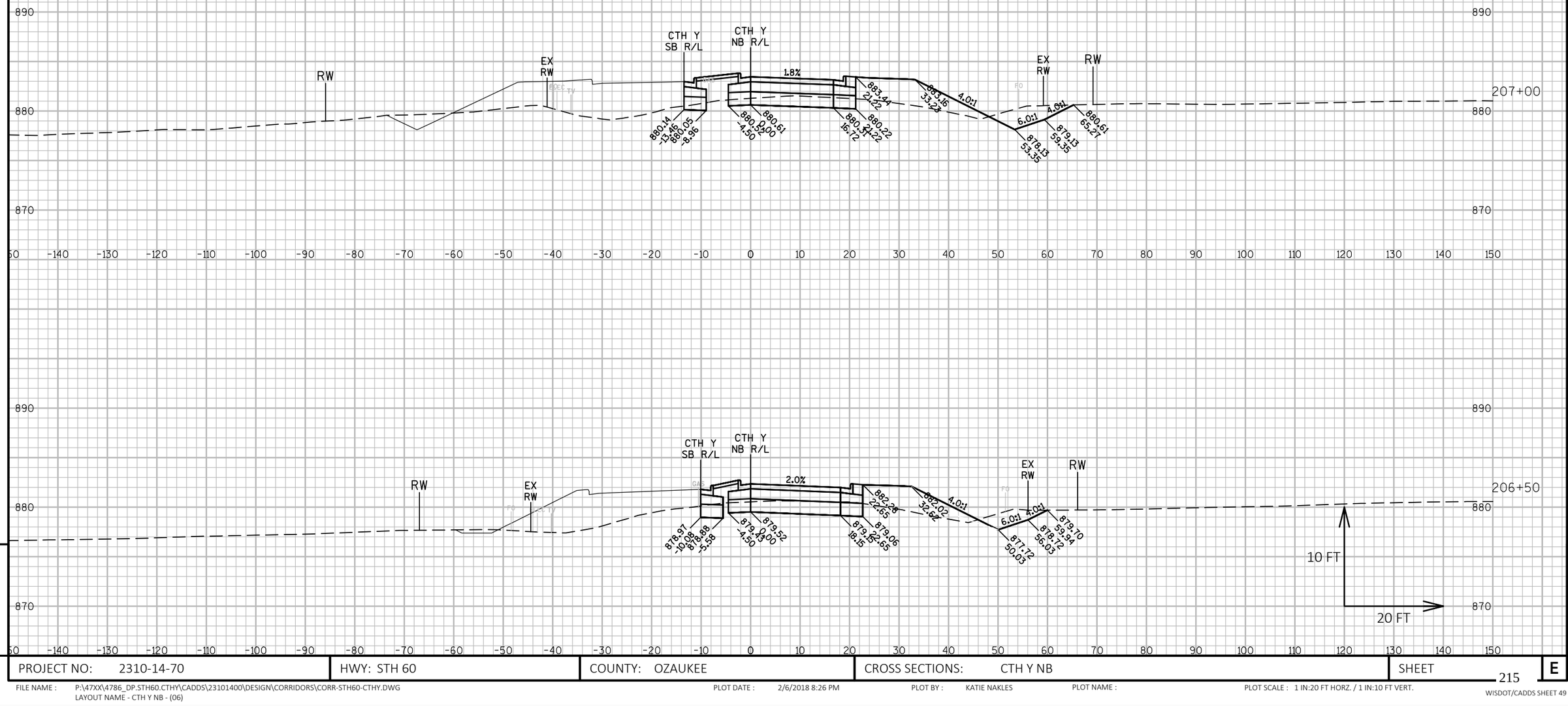


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y NB	SHEET 214 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y NB - (05)

PLOT DATE : 2/6/2018 7:57 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

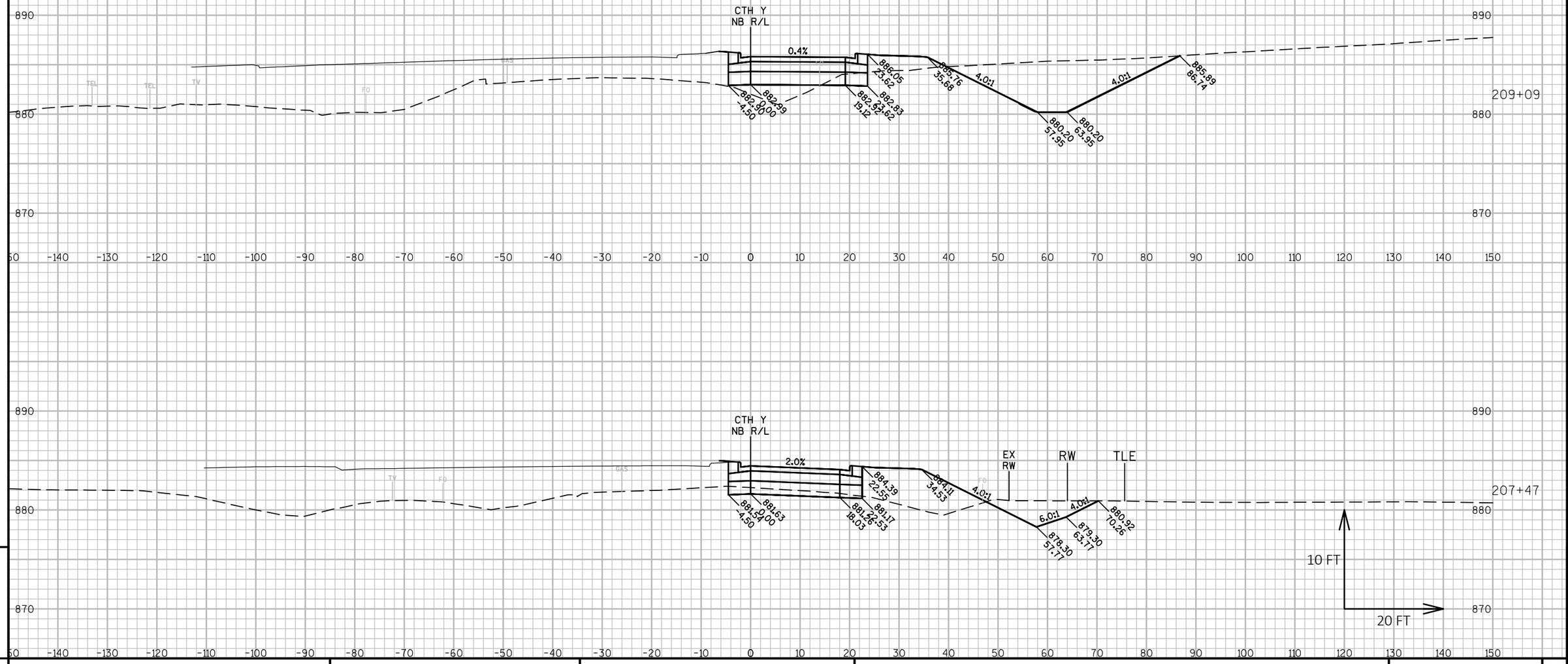


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y NB	SHEET 215 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y NB - (06)

PLOT DATE : 2/6/2018 8:26 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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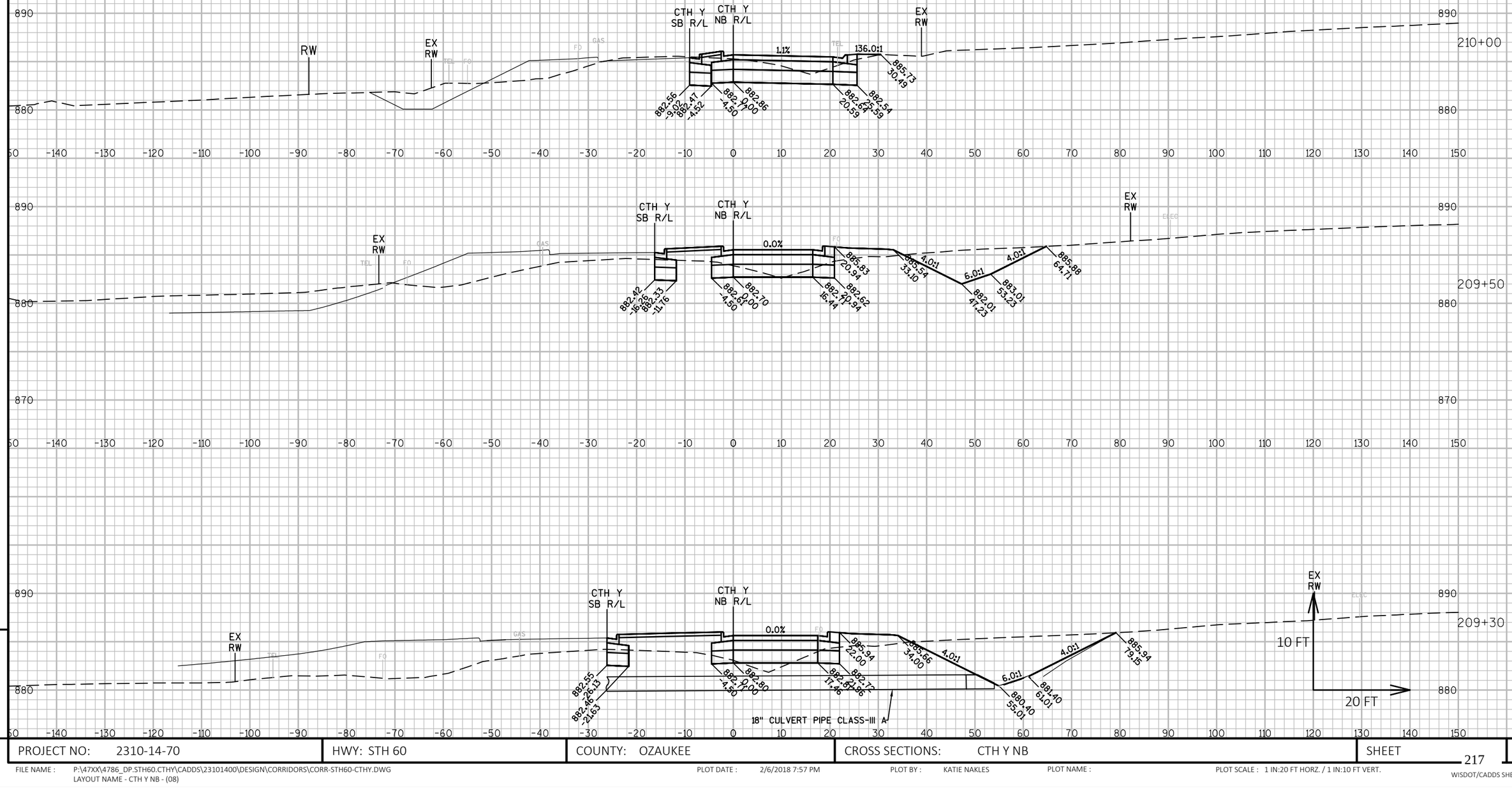
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y NB	SHEET 216	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y NB - (07)

PLOT DATE : 2/6/2018 7:57 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

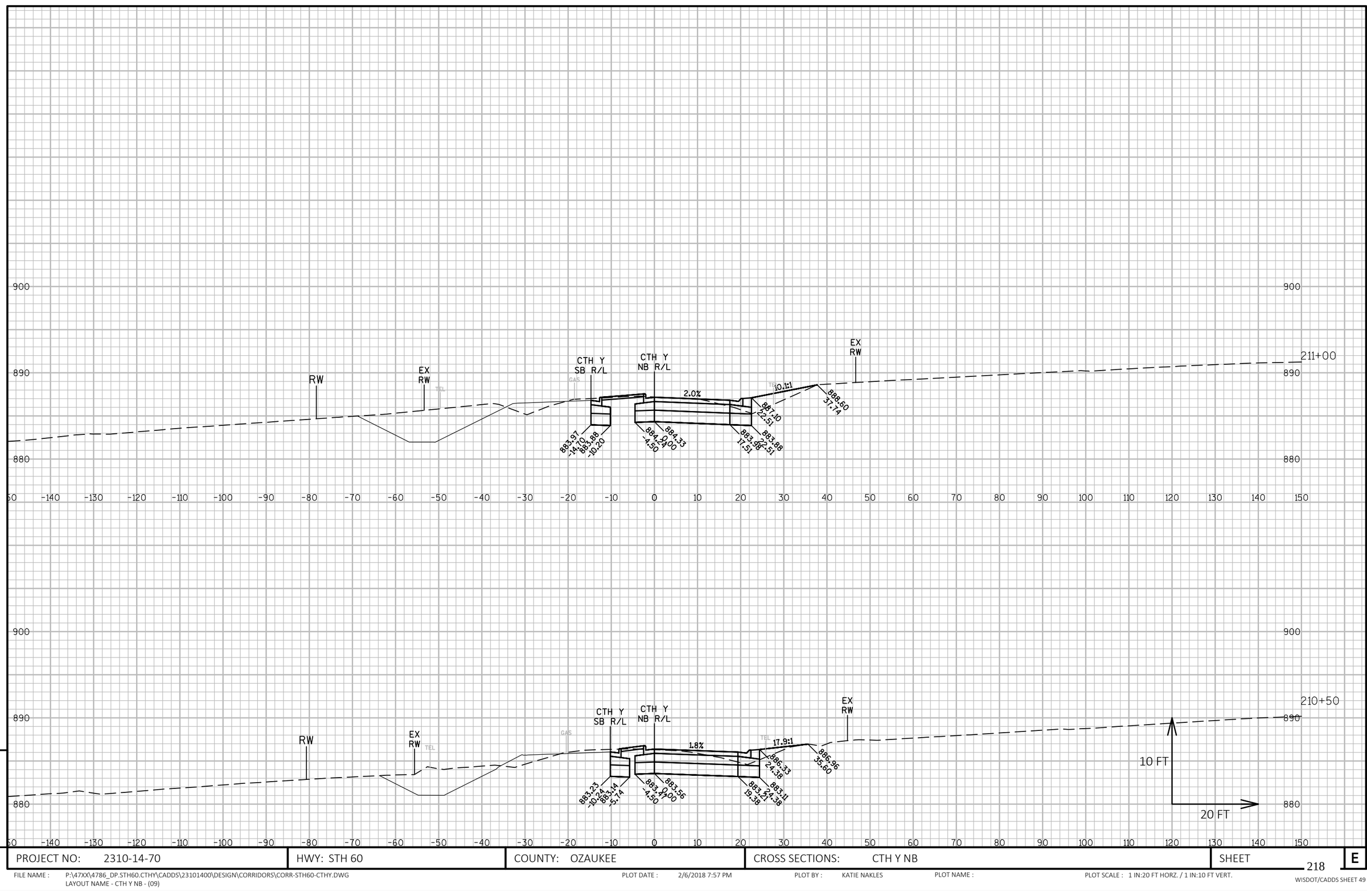


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y NB	SHEET 217	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y NB - (08)

PLOT DATE : 2/6/2018 7:57 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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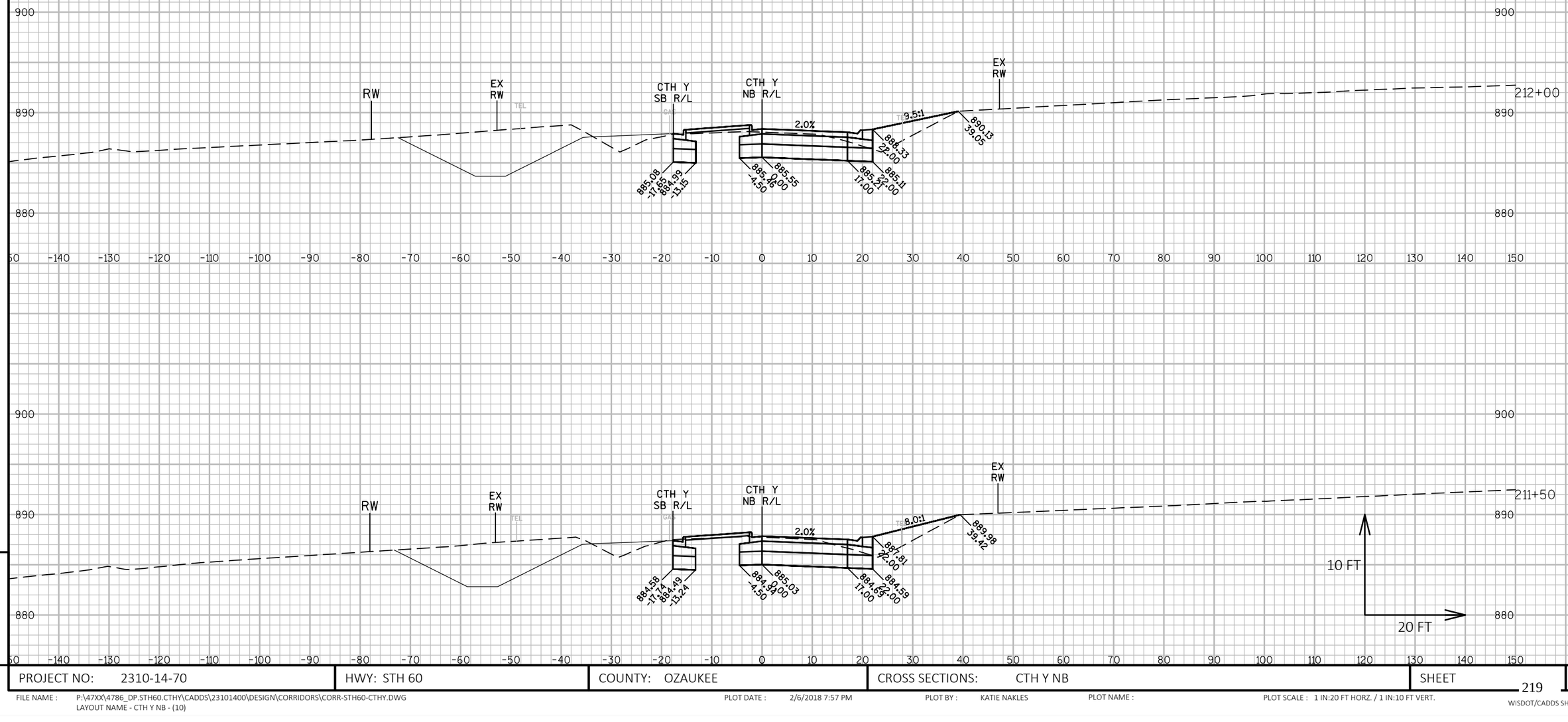
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y NB	SHEET 218	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y NB - (09)

PLOT DATE : 2/6/2018 7:57 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

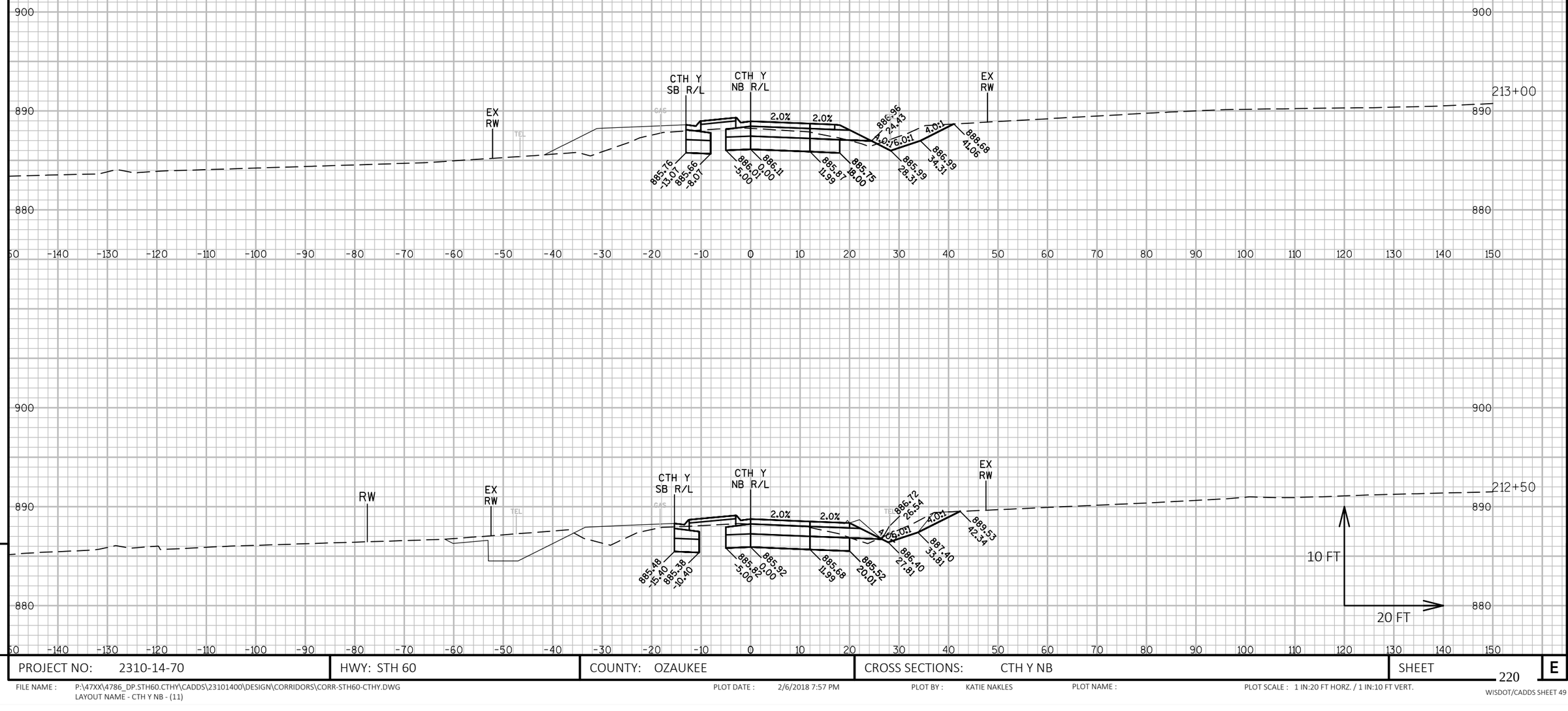


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y NB	SHEET 219 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y NB - (10)

PLOT DATE : 2/6/2018 7:57 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

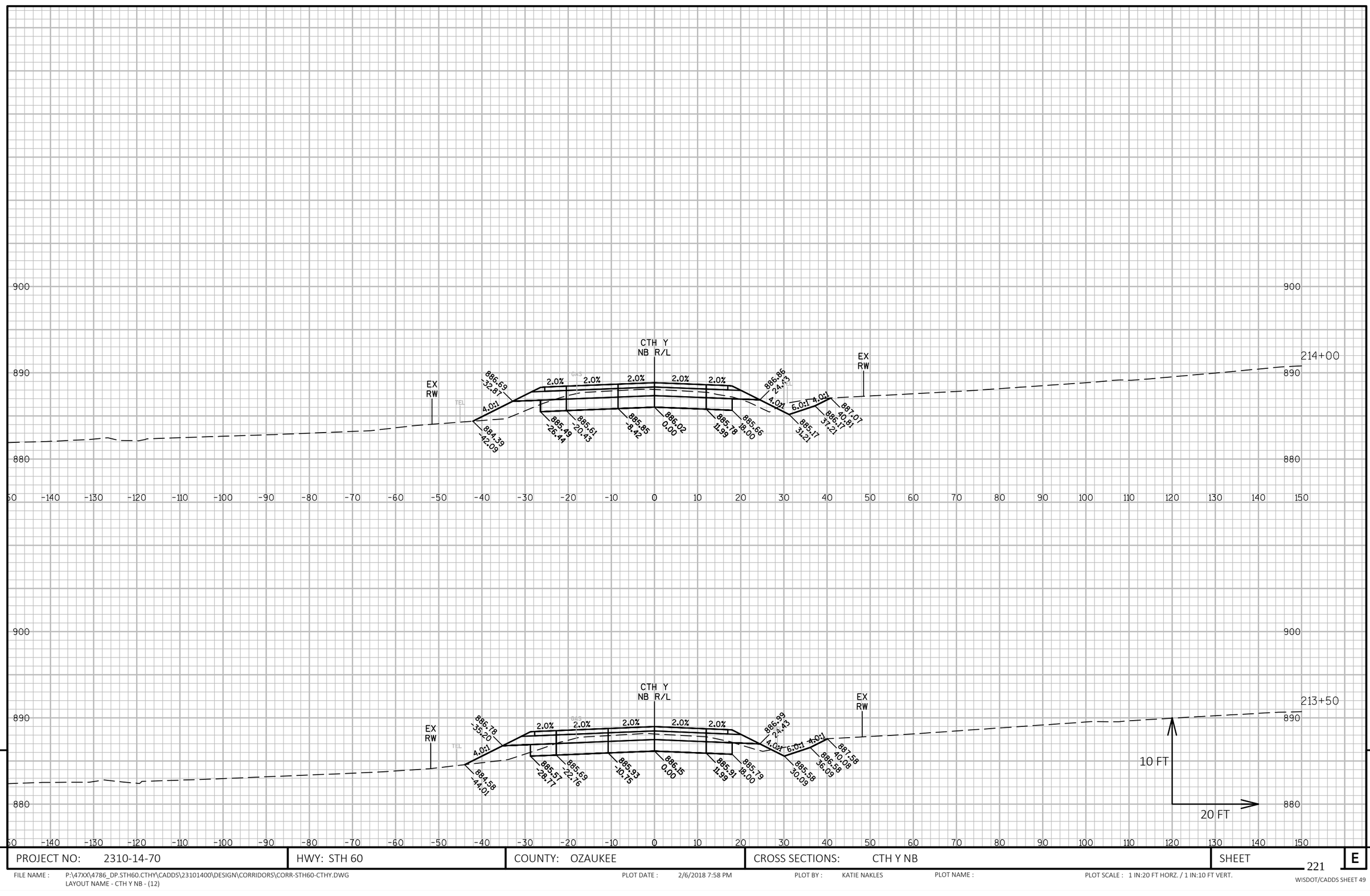


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y NB	SHEET 220	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y NB - (11)

PLOT DATE : 2/6/2018 7:57 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

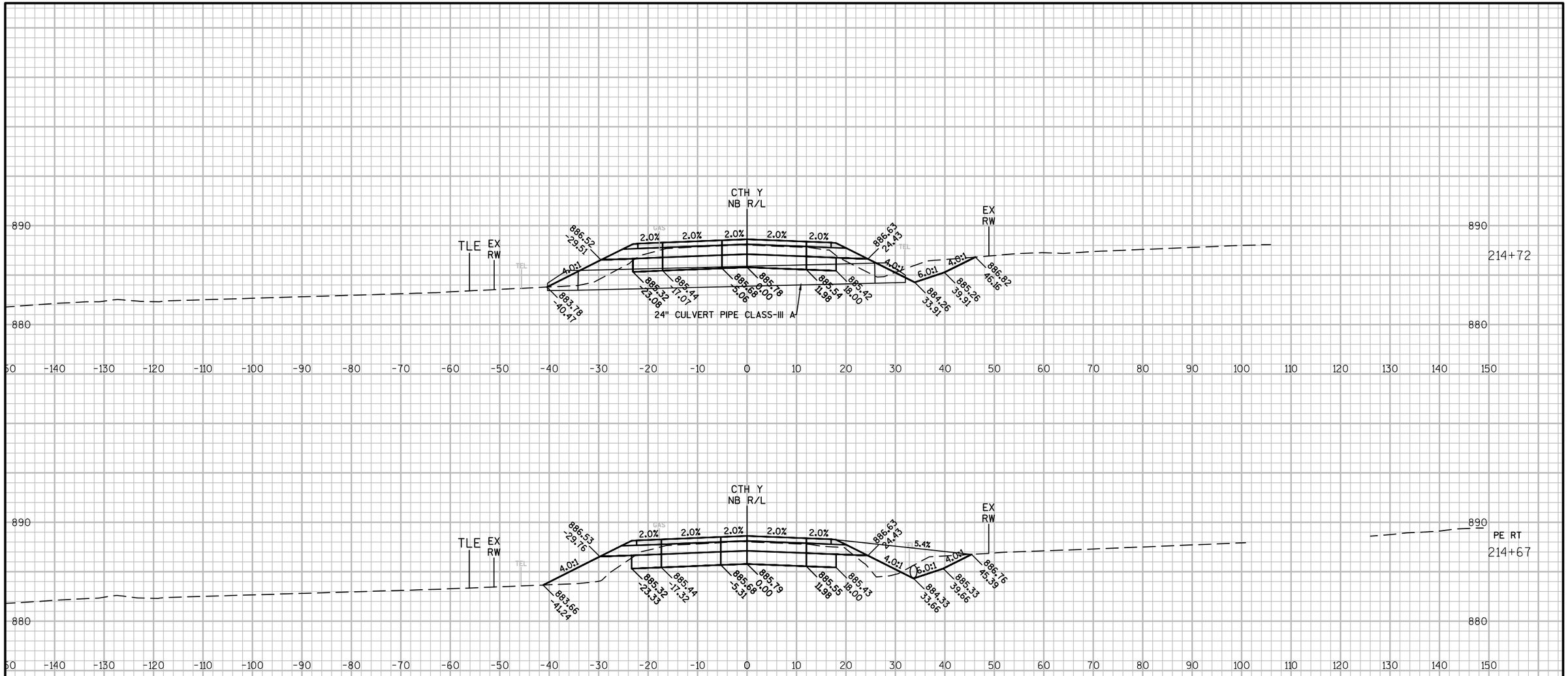


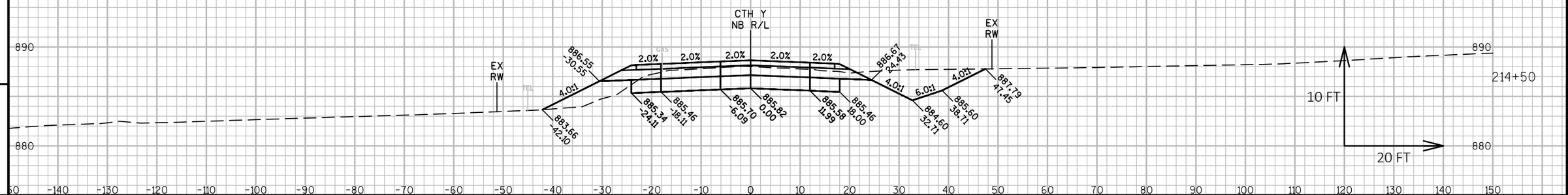
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y NB	SHEET 221	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y NB - (12)

PLOT DATE : 2/6/2018 7:58 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



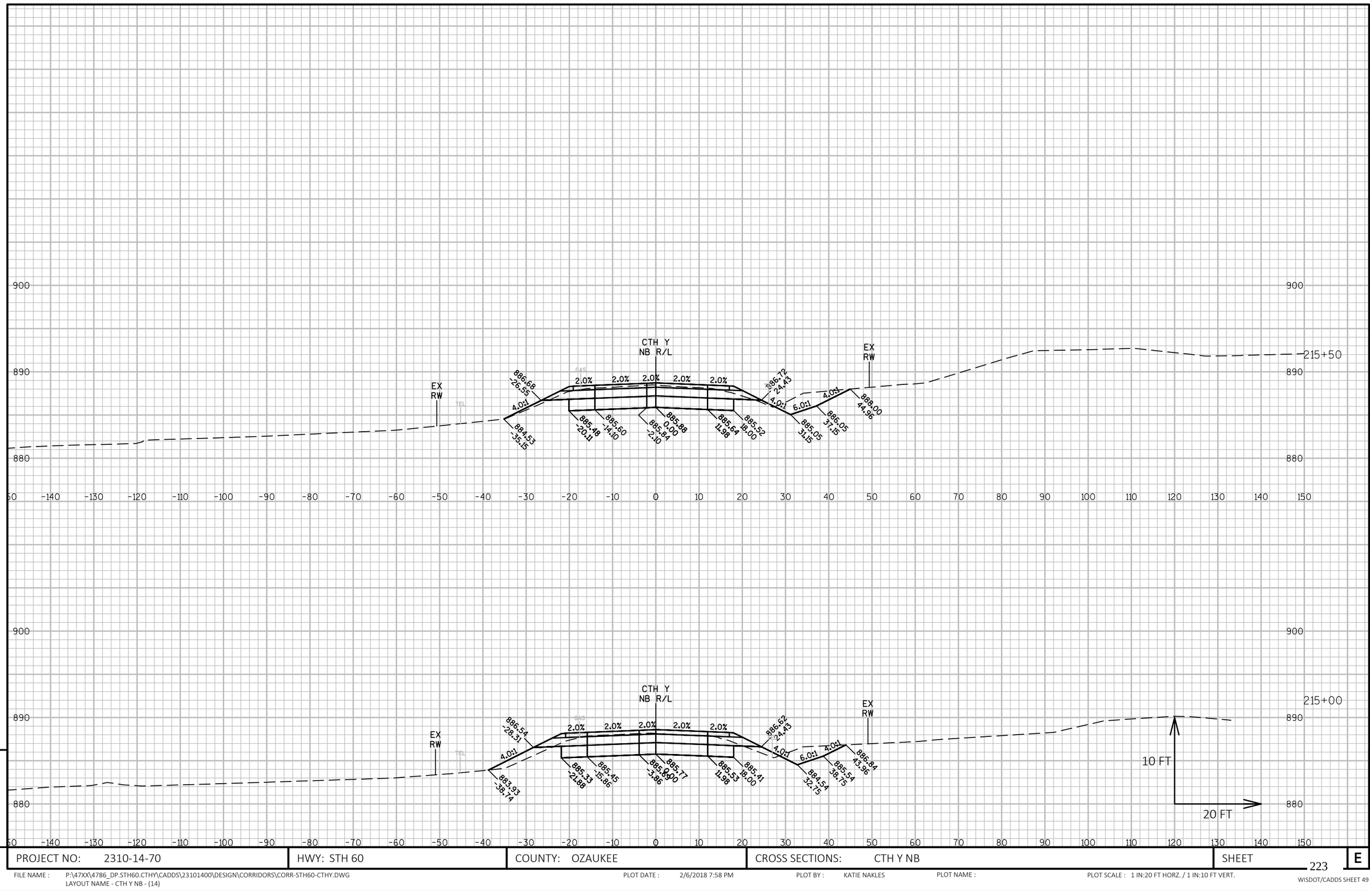


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y NB	SHEET 222	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y NB - (13)

PLOT DATE : 2/6/2018 7:58 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

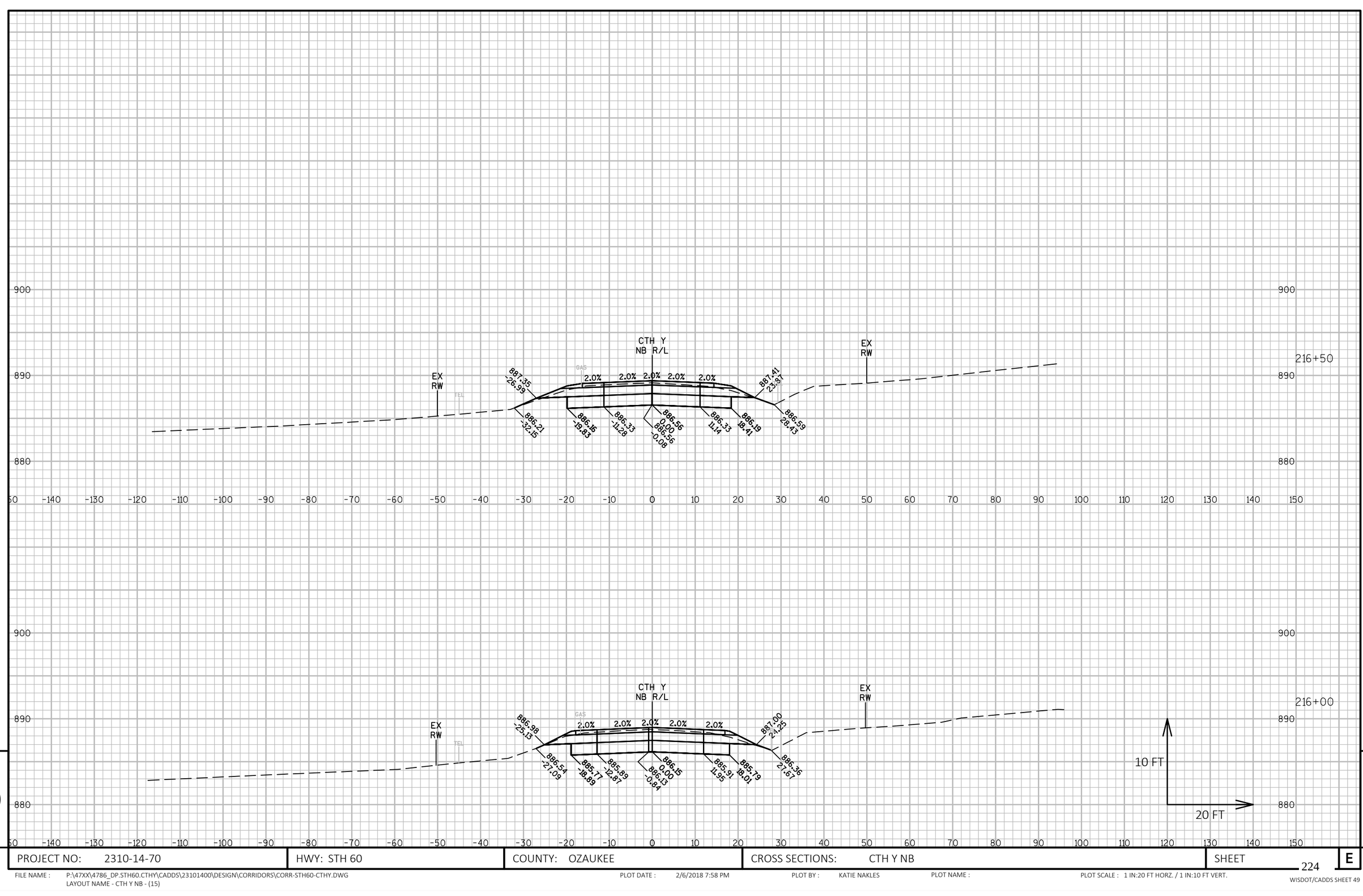
WISDOT/CADDS SHEET 49



PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y NB	SHEET 223	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y NB - (14)

PLOT DATE : 2/6/2018 7:58 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

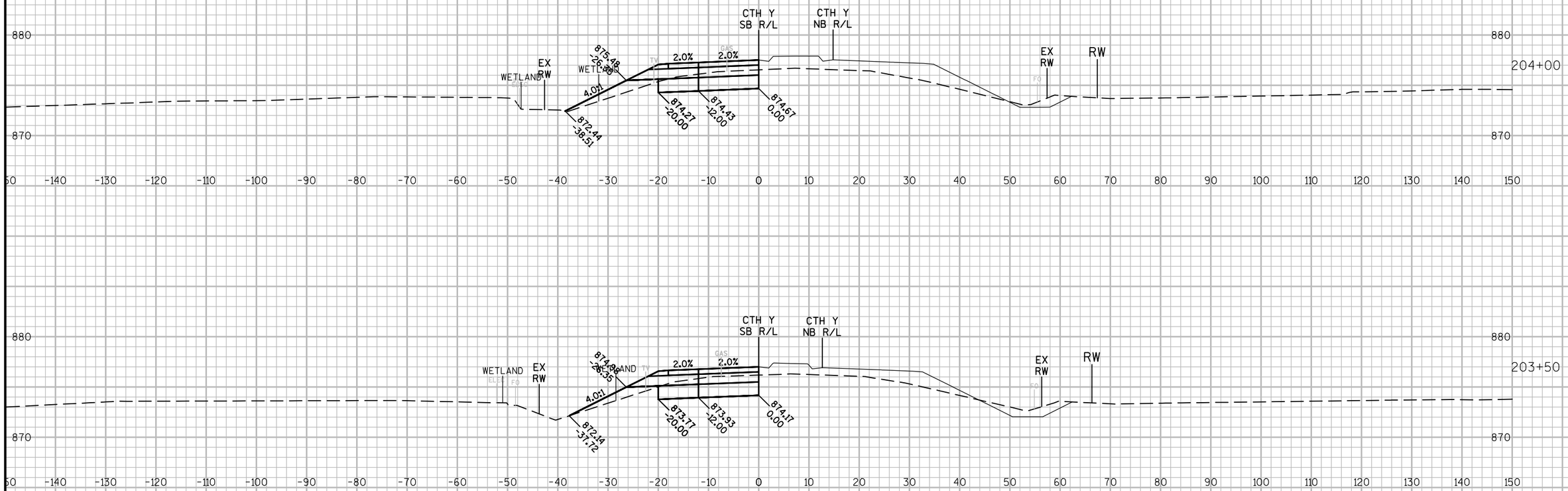


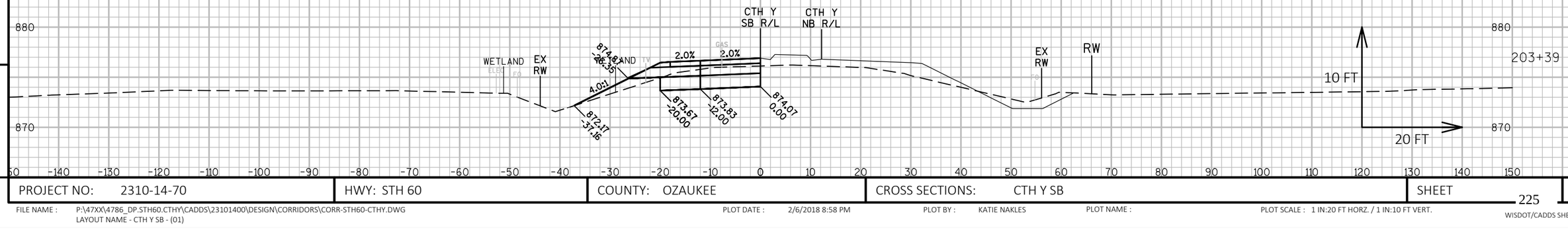
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y NB	SHEET 224 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y NB - (15)

PLOT DATE : 2/6/2018 7:58 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

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PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y SB	SHEET 225	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y SB - (01)

PLOT DATE : 2/6/2018 8:58 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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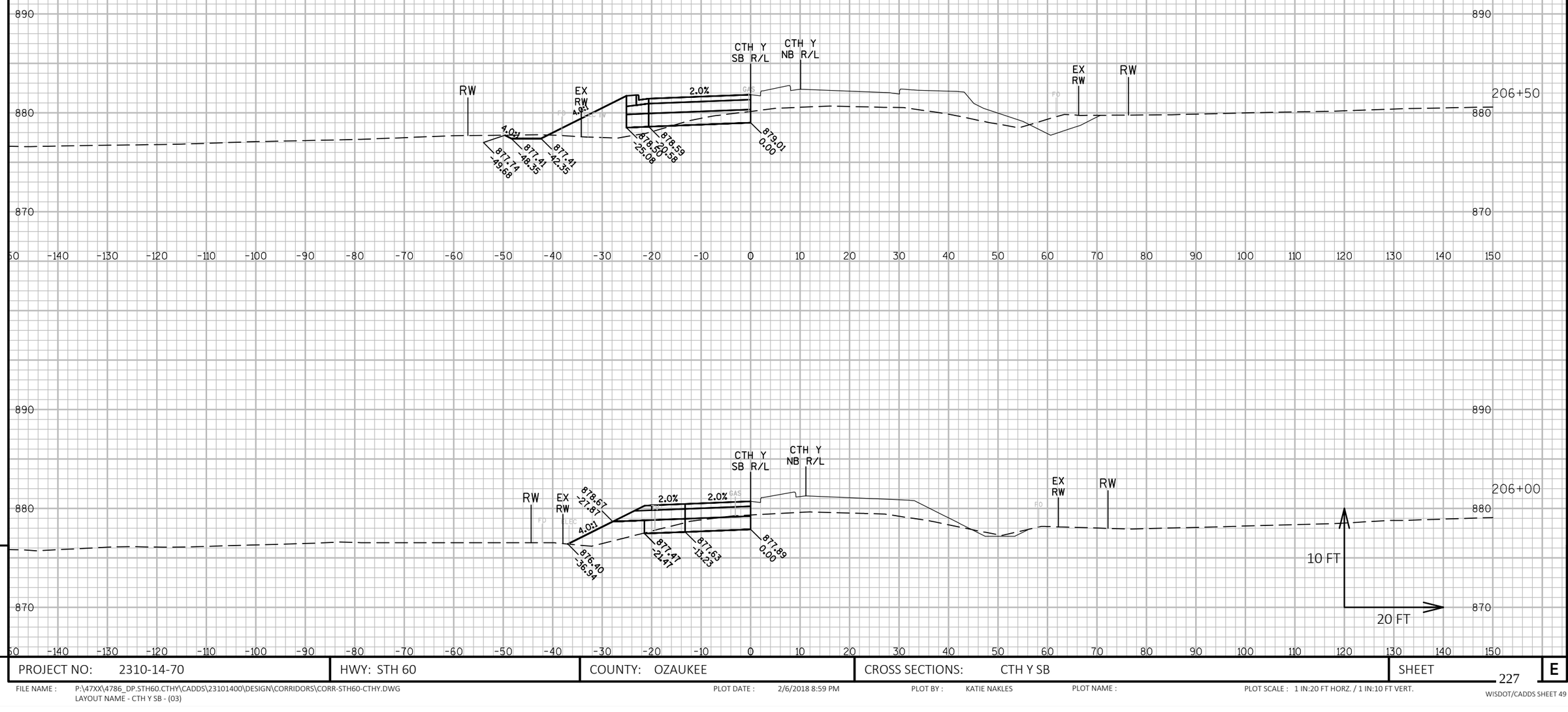
9

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y SB	SHEET 226	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y SB - (02)

PLOT DATE : 2/6/2018 8:58 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

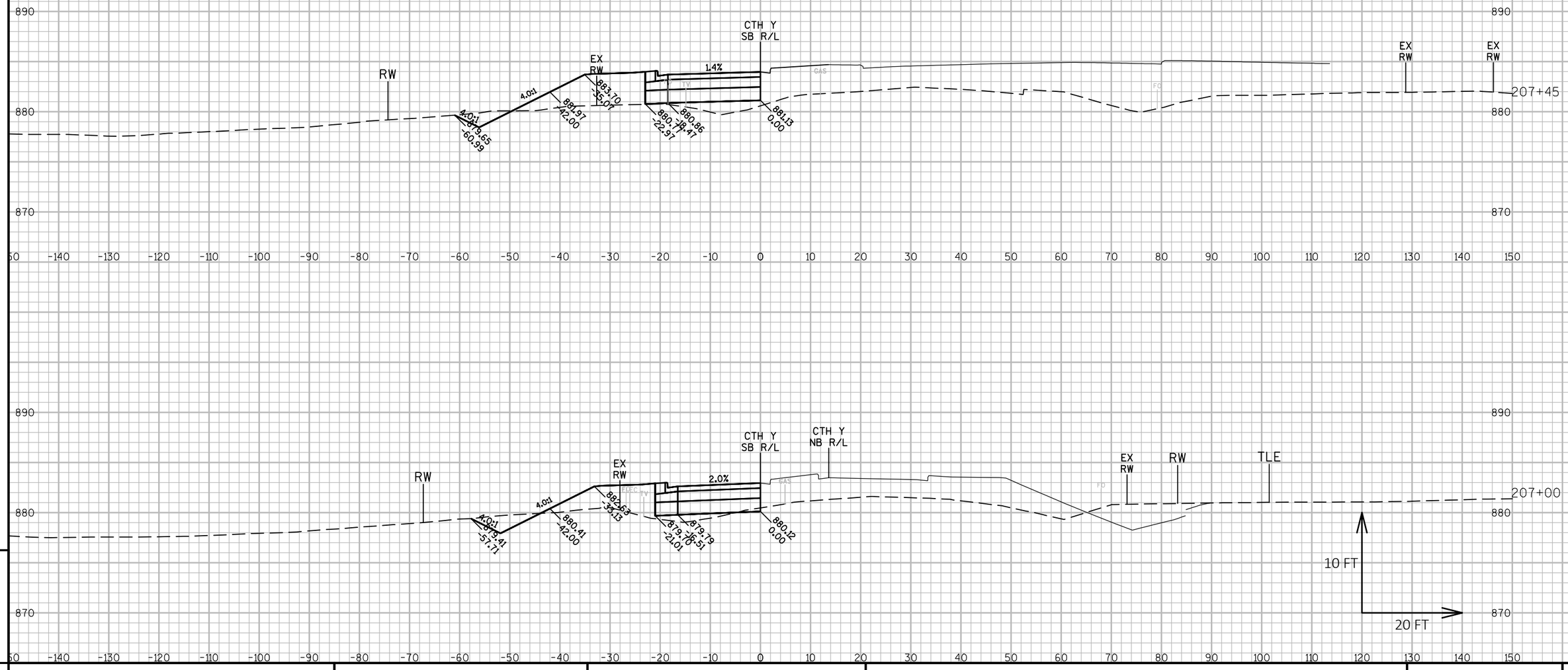


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y SB	SHEET 227 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y SB - (03)

PLOT DATE : 2/6/2018 8:59 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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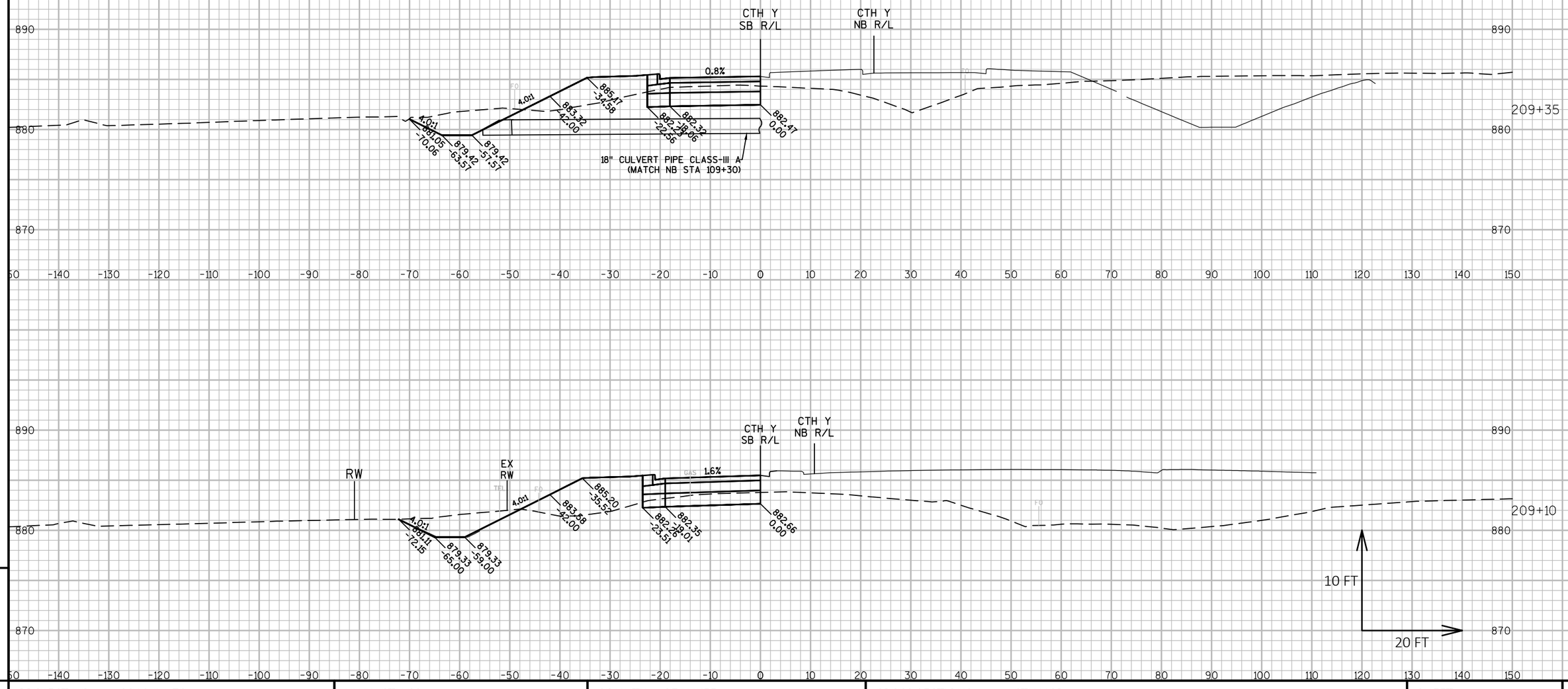
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y SB	SHEET 228	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y SB - (04)

PLOT DATE : 2/6/2018 8:59 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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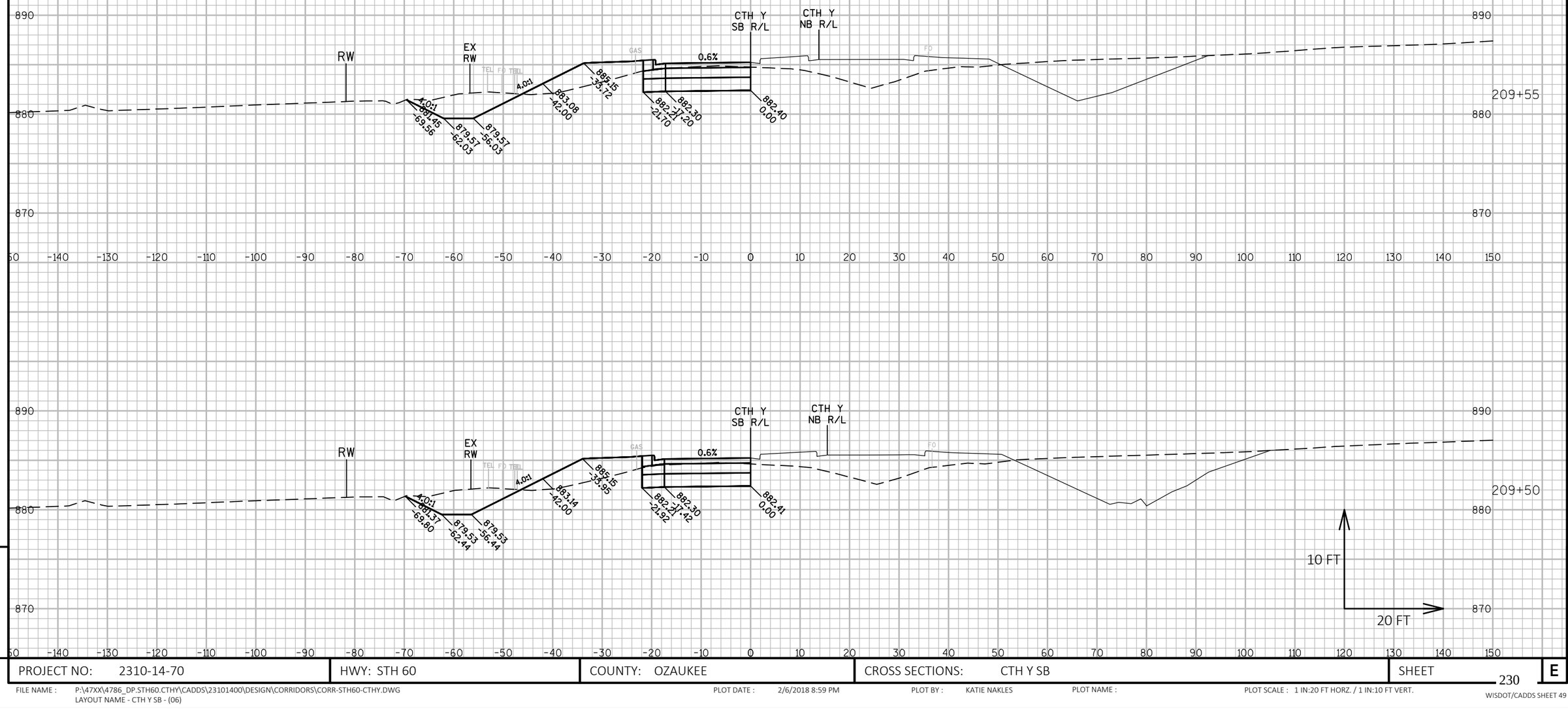
9

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y SB	SHEET 229	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y SB - (05)

PLOT DATE : 2/6/2018 8:59 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

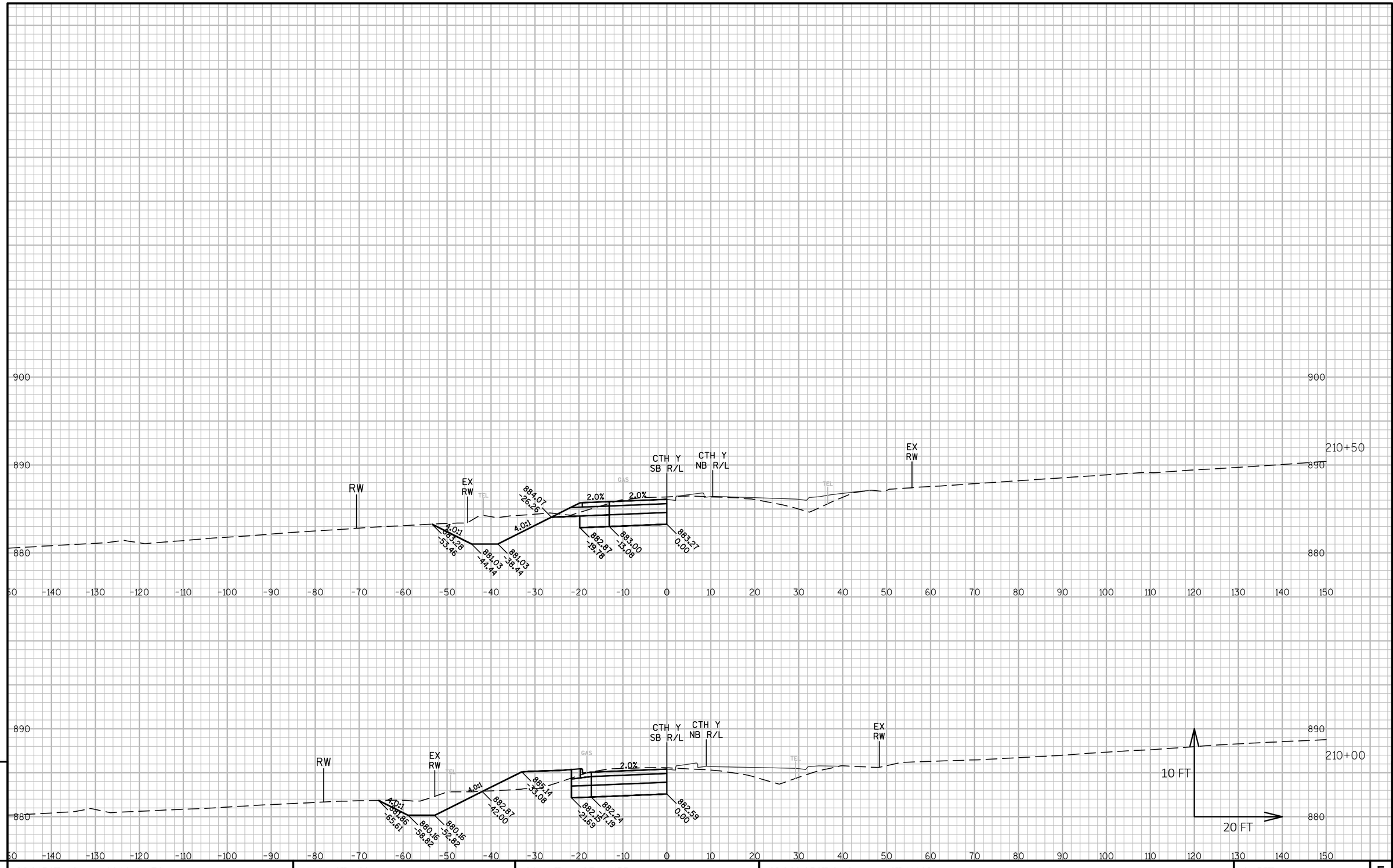
9

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y SB	SHEET 230	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y SB - (06)

PLOT DATE : 2/6/2018 8:59 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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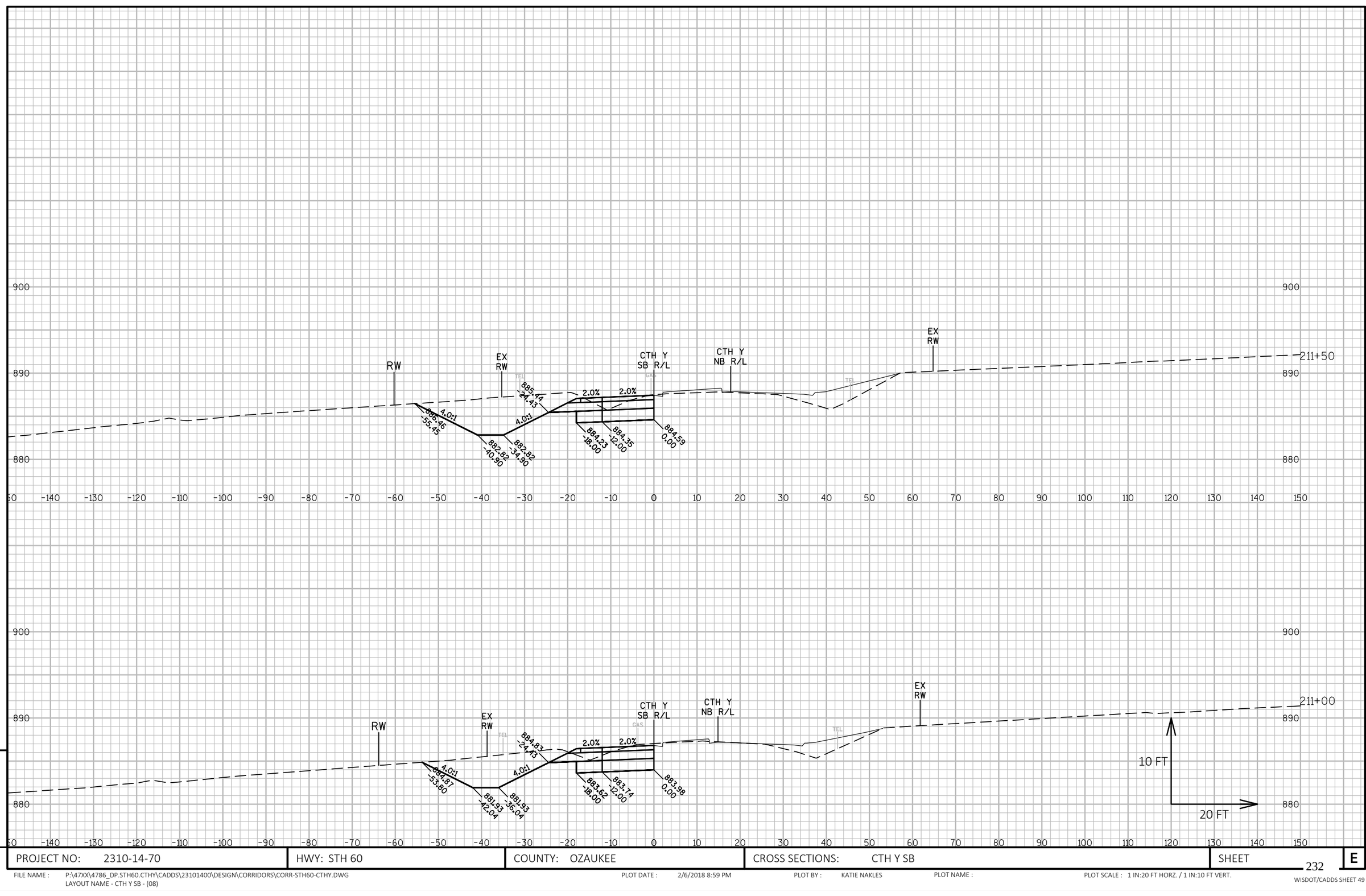
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y SB	SHEET 231	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y SB - (07)

PLOT DATE : 2/6/2018 8:59 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



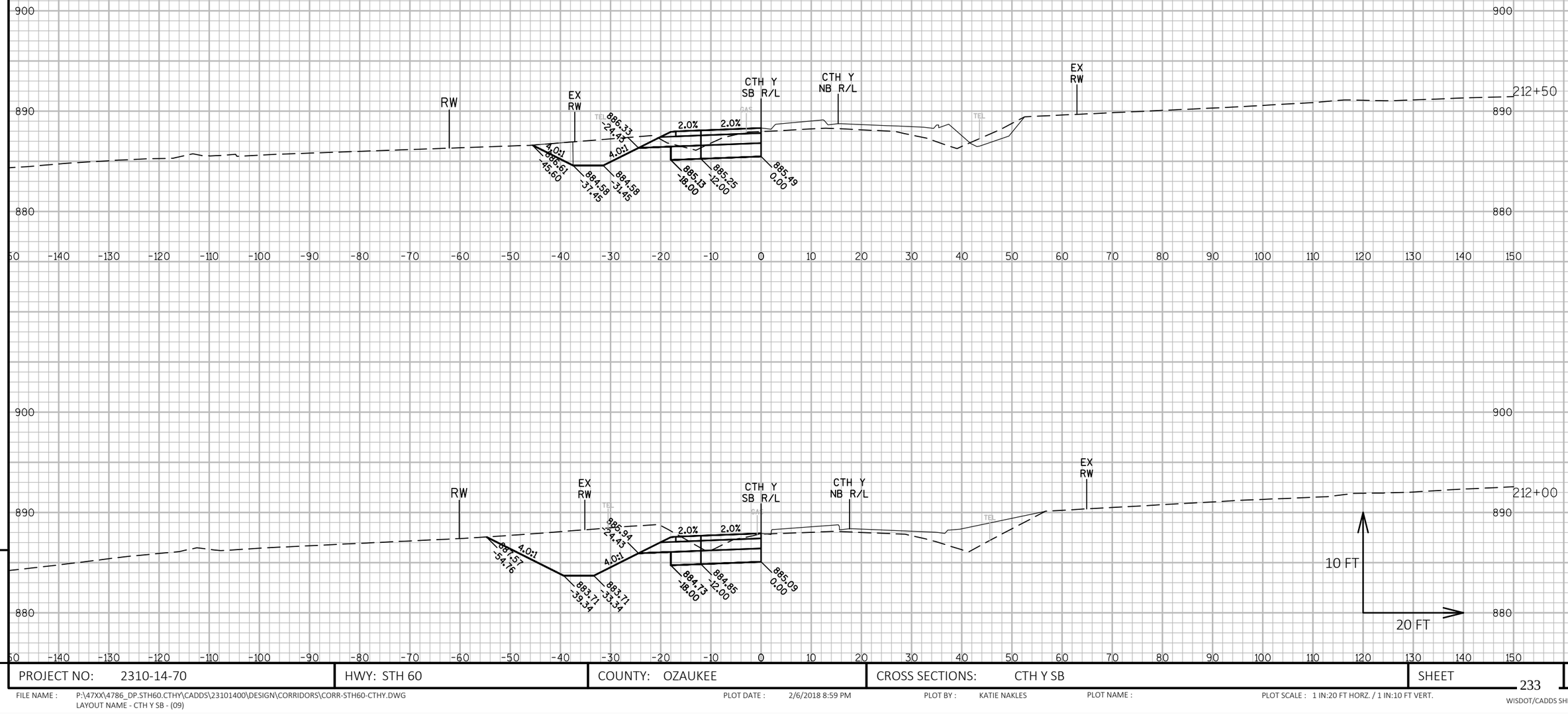
9 9

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y SB	SHEET 232	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y SB - (08)

PLOT DATE : 2/6/2018 8:59 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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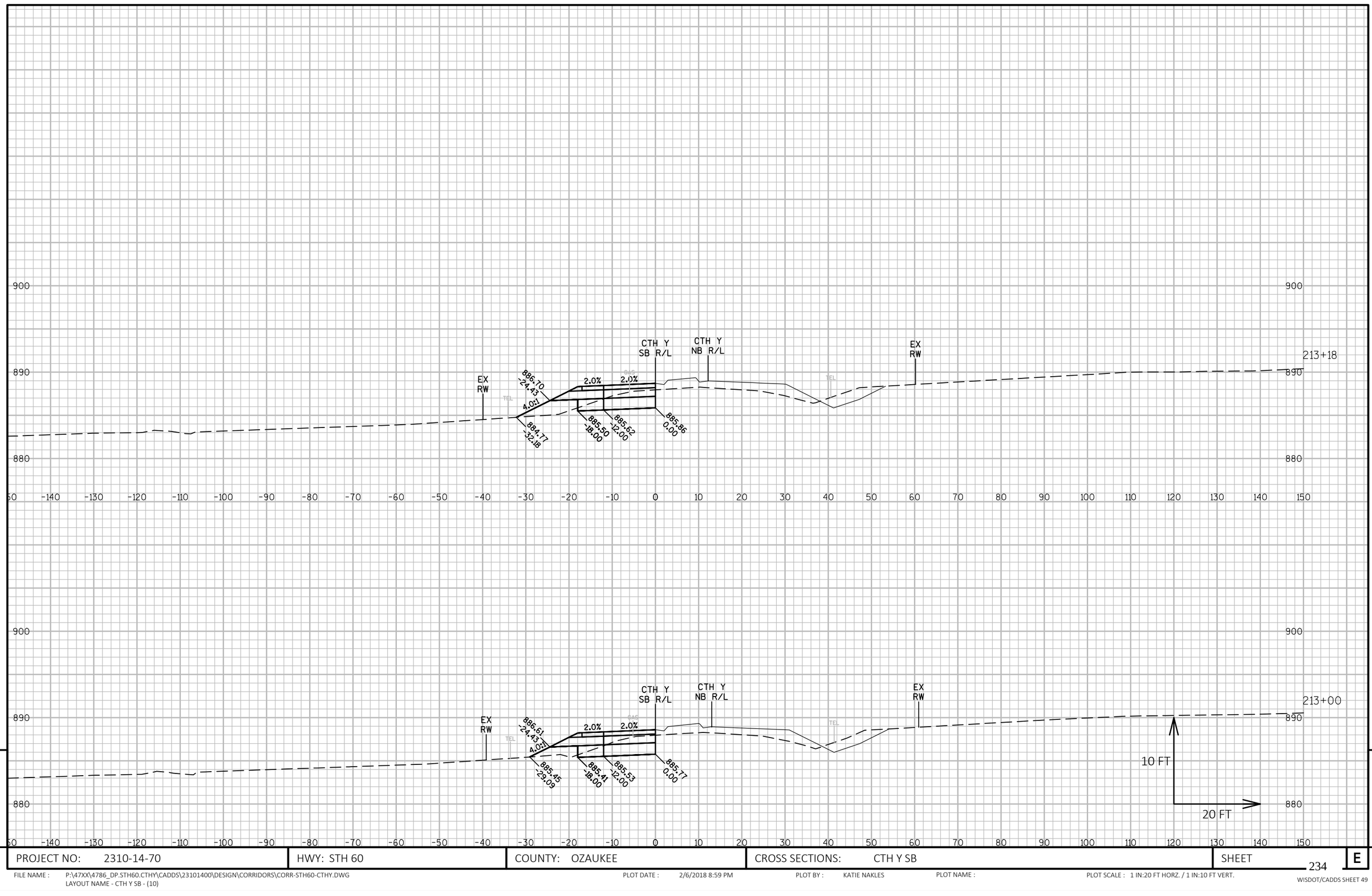
9

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y SB	SHEET 233	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y SB - (09)

PLOT DATE : 2/6/2018 8:59 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

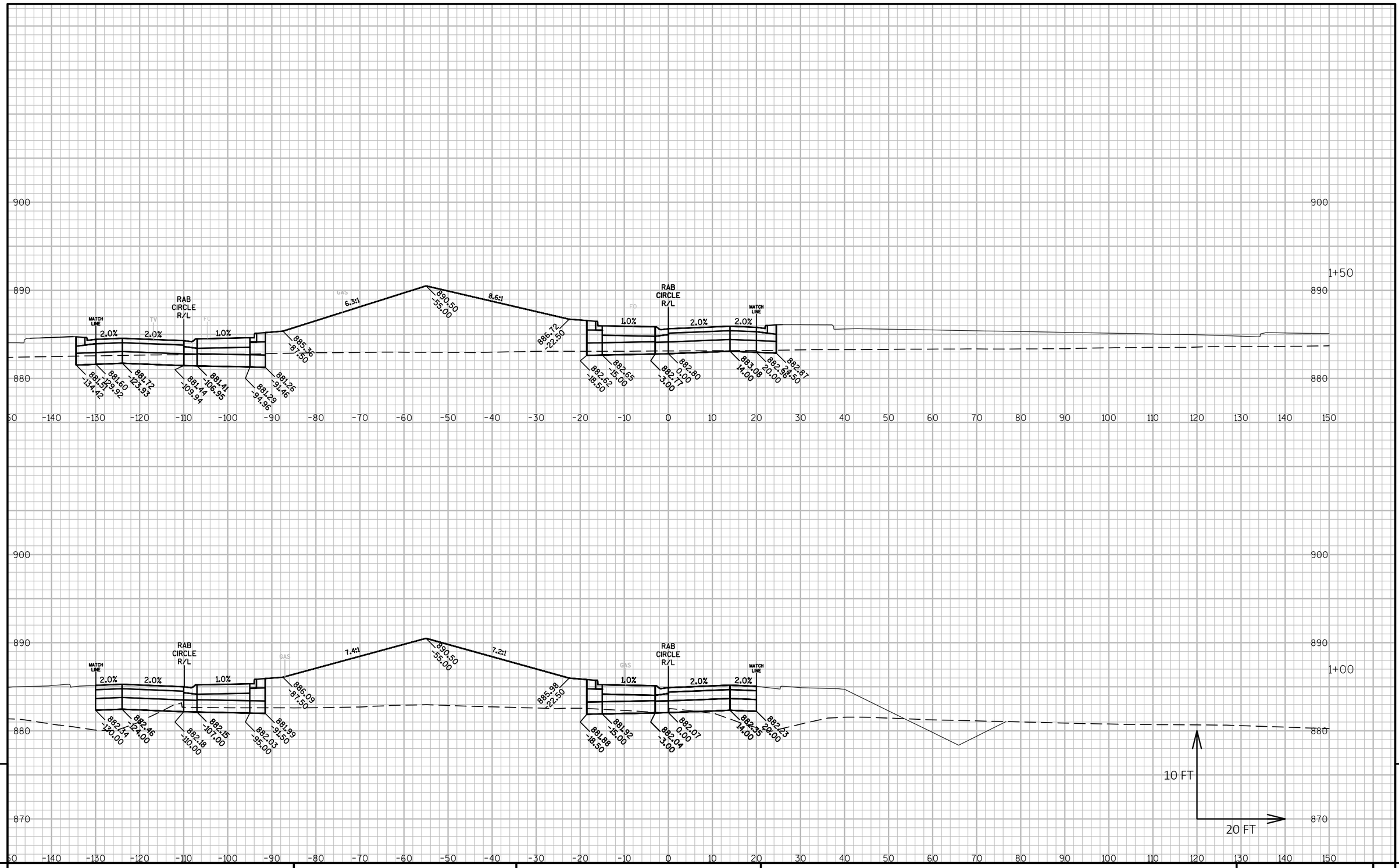


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: CTH Y SB	SHEET 234 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - CTH Y SB - (10)

PLOT DATE : 2/6/2018 8:59 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



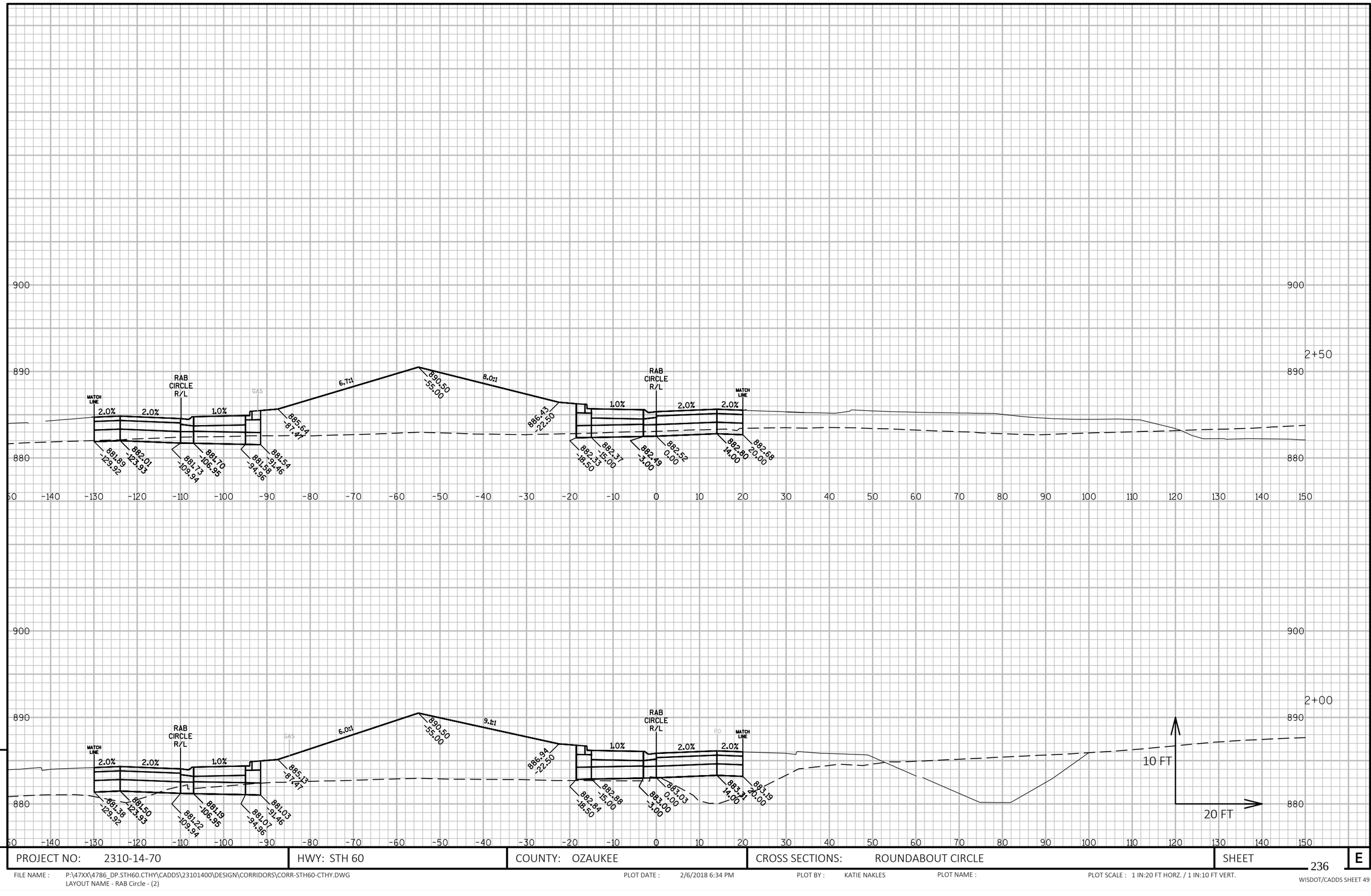
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: ROUNDABOUT CIRCLE	SHEET 235 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - RAB Circle - (1)

PLOT DATE : 2/6/2018 6:34 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9 9

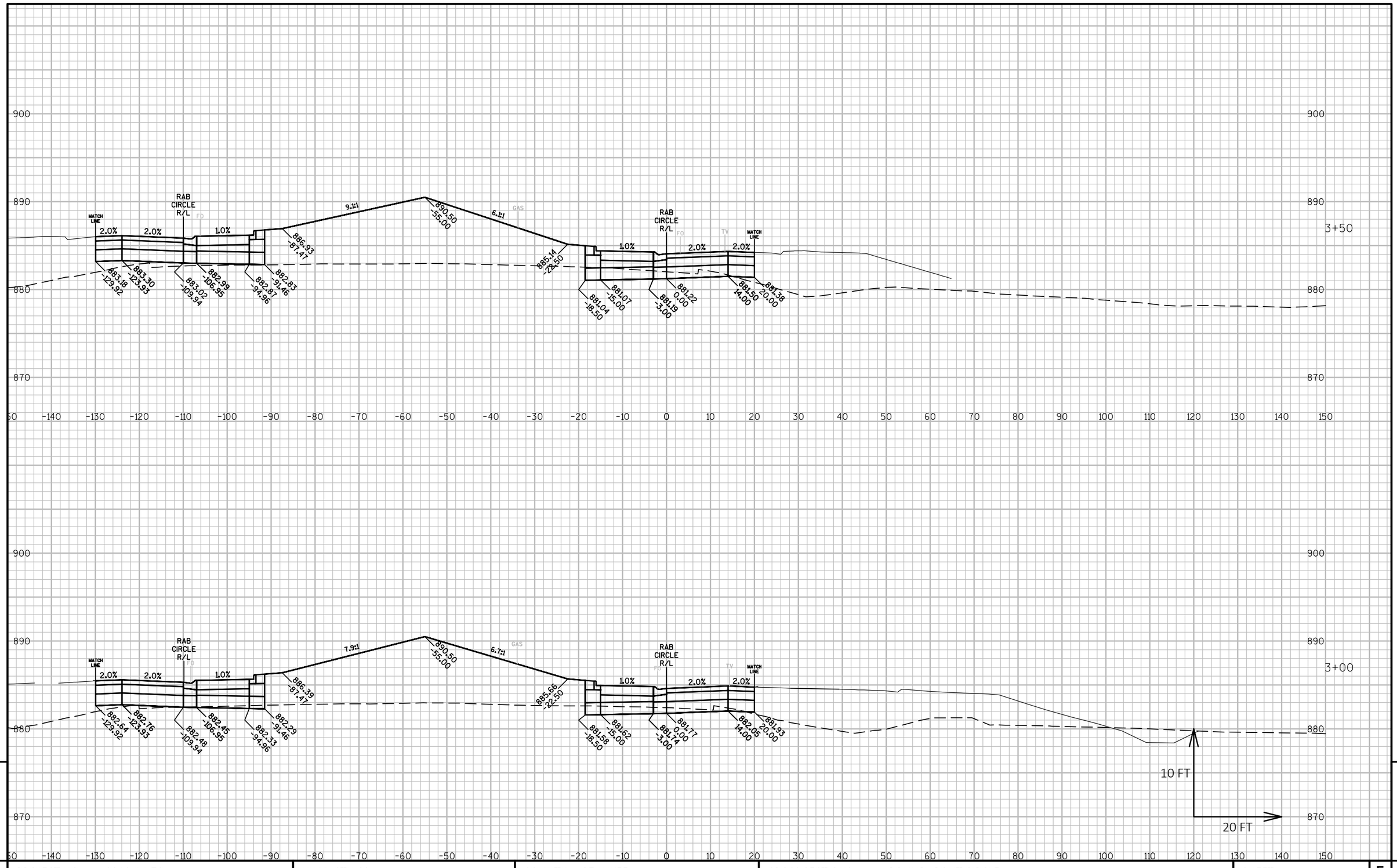


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: ROUNDABOUT CIRCLE	SHEET 236 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - RAB Circle - (2)

PLOT DATE : 2/6/2018 6:34 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

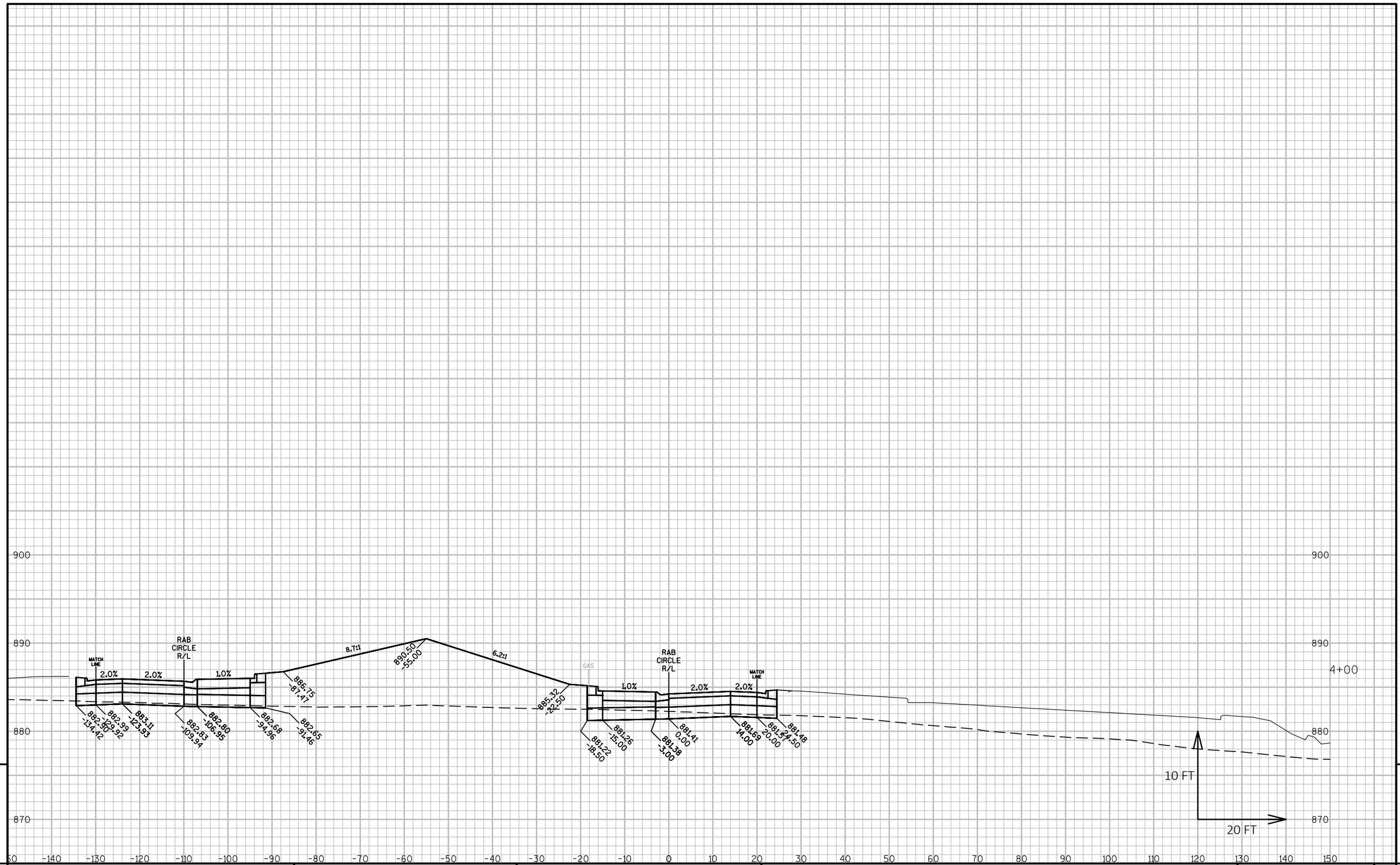


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: ROUNDABOUT CIRCLE	SHEET 237 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - RAB Circle - (3)

PLOT DATE : 2/6/2018 6:34 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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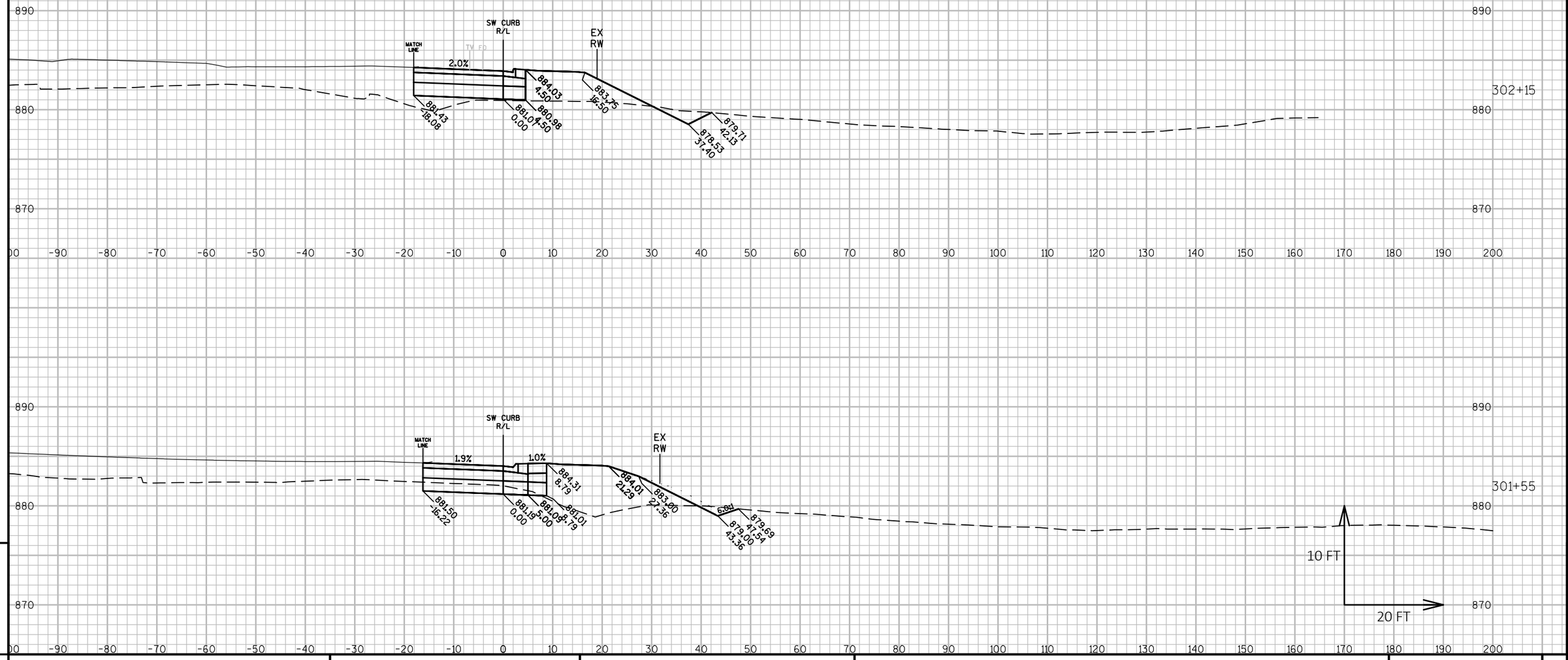
PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: ROUNDABOUT CIRCLE	SHEET 238	E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - RAB Circle - (4)

PLOT DATE : 2/6/2018 6:34 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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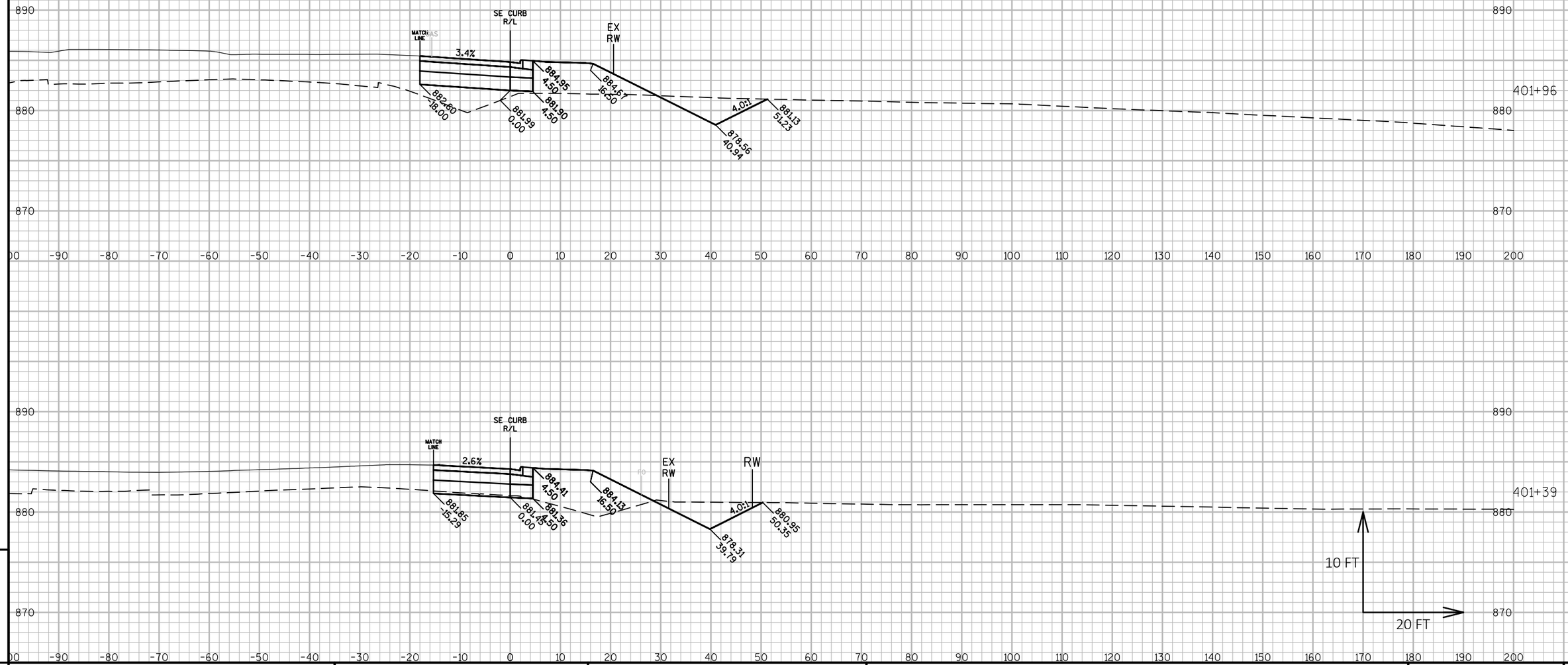
9

PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: SW CURB	SHEET 239 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - SW Curb - (1)

PLOT DATE : 2/6/2018 6:34 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

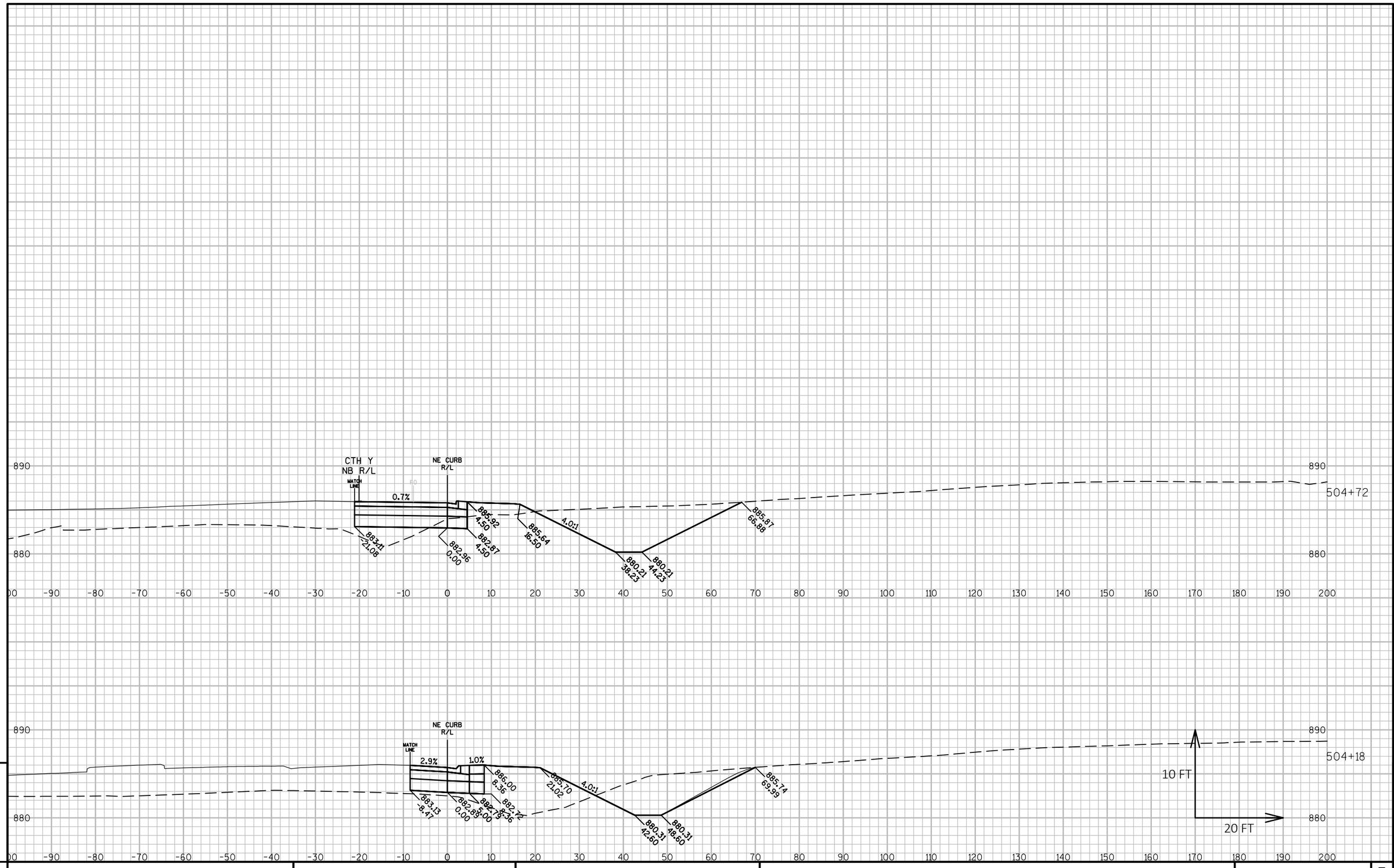


PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: SE CURB	SHEET 240 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - SE Curb - (1)

PLOT DATE : 2/6/2018 6:35 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

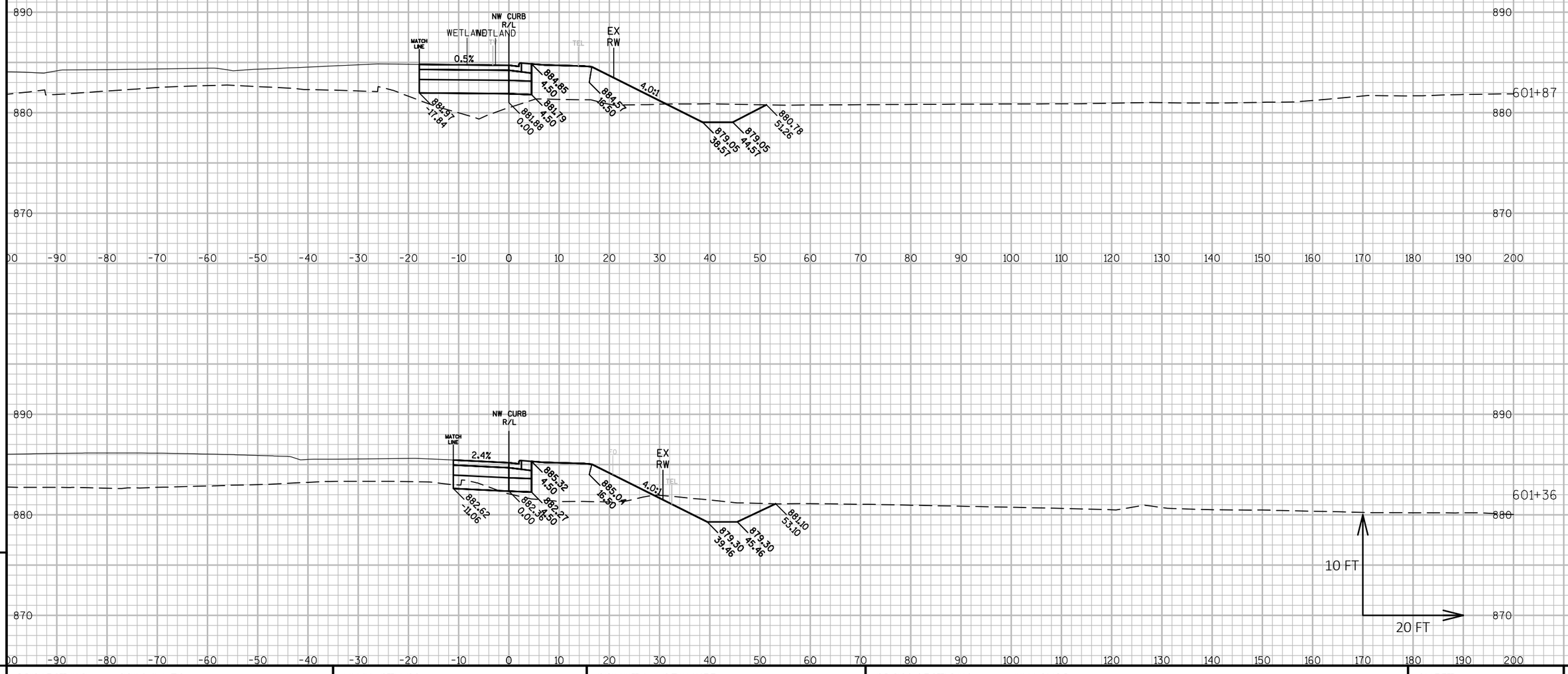
WISDOT/CADDS SHEET 49



PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: NE CURB	SHEET 241 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - NE Curb - (1)

PLOT DATE : 2/6/2018 6:35 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 2310-14-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: NW CURB	SHEET 242 E

FILE NAME : P:\47XX\4786_DP.STH60.CTHY\CADDS\23101400\DESIGN\CORRIDORS\CORR-STH60-CTHY.DWG
LAYOUT NAME - NW Curb - (1)

PLOT DATE : 2/6/2018 6:35 PM PLOT BY : KATIE NAKLES PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

Place Sheet Numbers

WKE DECEMBER 2019

PROJECT ID: 2310-17-70
WITH: 2310-14-70

COUNTY: WASHINGTON & OZAUKEE

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 = ___ 454

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2310-17-70	WISC 2019740	1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STH 60

EAGLE DRIVE TO STH 181

STH 60

WASHINGTON & OZAUKEE COUNTIES

DESIGN DESIGNATION			WASHINGTON COUNTY	OZAUKEE COUNTY
A.A.D.T.	2010	=	8,000	8,600
A.A.D.T.	2040	=	11,300	12,000
D.H.V.		=	1,130	1,200
D.D.		=	60/40	60/40
T.		=	5.2%	5.2%
DESIGN SPEED		=	55 MPH	55 MPH
ESALS		=	1,258,400	1,344,800

STATE PROJECT NUMBER
2310-17-70

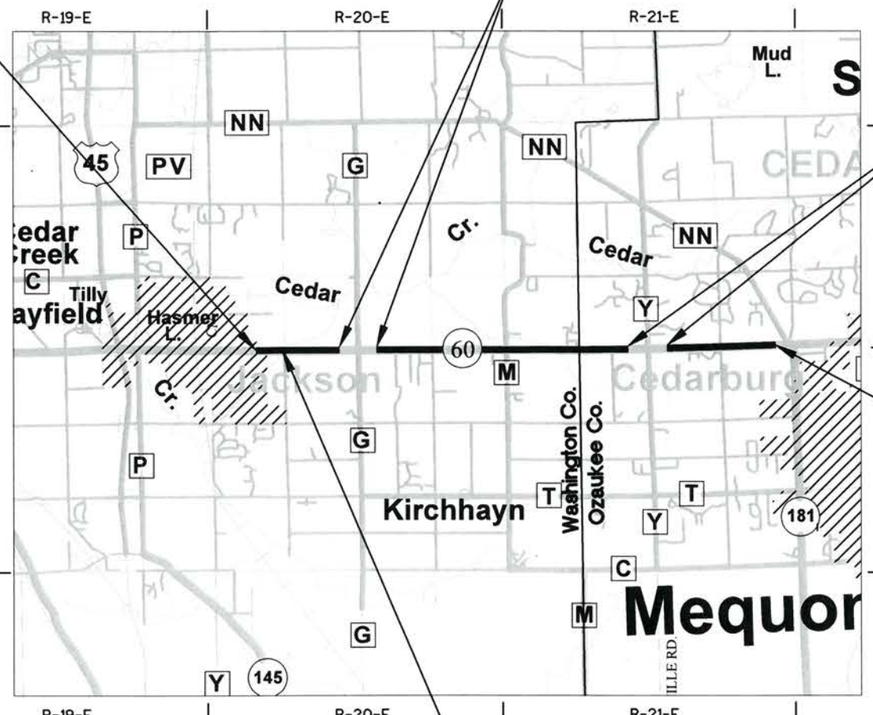
BEGIN PROJECT 2310-17-70
STA. 188+60.00
X = 371,524.8600
Y = 147,846.7887

EXCEPTION TO NET ℄ LENGTH
STA. 249+06.64 TO STA. 266+77.81

EXCEPTION TO NET ℄ LENGTH
STA. 456+50.01 TO STA. 473+92.67
ID 2310-14-70

END PROJECT
STA. 555+40.00

STRUCTURE B-66-0092
STA. 204+15.09



LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 6.281 MI.

-COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), WASHINGTON COUNTY, NAD 1983 (2007) AND OZAUKEE COUNTY, NAD 1983 (2007).

-ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD 88 (2007).

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE		ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
		TELEPHONE	T
MARSH AREA		WATER	W
		UTILITY PEDESTAL	
WOODED OR SHRUB AREA		POWER POLE	
		TELEPHONE POLE	

ORIGINAL PLANS PREPARED BY
COLLINS ENGINEERS INC

WISCONSIN
RACHEL A. TRANEL
E-35075
MUKWONAGO, WI
PROFESSIONAL ENGINEER

7/31/2019 (Date) Rachel A. Tranel (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	M SQUARED
Designer	COLLINS ENGINEERS
Project Manager	NGUYEN LY
Regional Examiner	STEVE CHOJNACKI
Regional Supervisor	BENEDICT ERUCHALU

APPROVED FOR THE DEPARTMENT
DATE: 7/31/2019 (Signature)

E

2

ABBREVIATIONS

AS	ASPHALTIC SURFACE
BAD	BASE AGGREGATE DENSE
BLDG.	BUILDING
BM	BENCH MARK
C.E.	COMMERCIAL ENTRANCE
CNE	CONSTRUCTION EASEMENT
CONC.	CONCRETE
CP	CONTROL POINT
CSW	CONCRETE SIDEWALK
CTR	CENTER
F.E.	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
HSE.	HOUSE
MAX.	MAXIMUM
MIN.	MINIMUM
NOR.	NORMAL
P.E.	PRIVATE ENTRANCE
P.L.	PROPERTY LINE
R	RADIUS
REQ'D.	REQUIRED
R/L	REFERENCE LINE
R/W	RIGHT-OF-WAY
S.D.D.	STANDARD DETAIL DRAWING
SSPRC	STORM SEWER PIPE REINFORCED
TLE	CONCRETE TEMPORARY LIMITED EASEMENT
TYP	TYPICAL

ORDER OF SECTION 2 DETAIL SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLANS
INTERSECTION & DRAINAGE DETAILS
PLAN DETAILS
EROSION CONTROL PLAN
PERMANENT SIGNING
PAVEMENT MARKING PLAN
TRAFFIC CONTROL PLAN
DETOUR - STH 60
ALIGNMENT DETAIL

UTILITIES

ATC
CHRIS DAILEY
P.O. BOX 47
WAUKESHA, WI 53187
(262)506-6884
cdailey@atcllc.com

AT&T WISCONSIN
JEFF OLDENBURG
2005 PEWAUKEE ROAD
WAUKESHA, WI 53188
(262)896-7522
jo2376@att.com

CHARTER COMMUNICATIONS
STEVE CRAMER
UTILITY COORDINATOR
1320 N MARTIN LUTHER KING JR DR
MILWAUKEE, WI 53212
(414)277-4045
steve.cramer@charter.com

JACKSON, VILLAGE OF
JEFF DIETSCH
P.O. BOX 637
JACKSON, WI 53037
(414)840-0560
utilitysuper@villageofjackson.com

WE ENERGIES - GAS
PATRICK FRITZ
500 S 116TH ST
WEST ALLIS, WI 53214
(414)944-5558
patrick.fritz@we-energies.com

WE ENERGIES - ELECTRIC
AL SCHMITT
245 SAND DR
WEST BEND, WI 53095
(262)338-7662
alan.schmitt@we-energies.com

WEST SHORE PIPELINE CO.
CASEY SCHWANDT
2119 N QUINCY ST
GREEN BAY, WI 54302
(920)432-3223
cschwandt@buckeye.com

STATE AGENCIES:

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KRISTINA BETZOLD
2300 N. DR. MARTIN LUTHER KING JR. DR.
MILWAUKEE, WI. 53212
(414) 263-8517
kristina.betzold@wisconsin.gov

DOT CONTACT
NGUYEN LY, P.E.
WISCONSIN DEPARTMENT OF TRANSPORTATION
141 NW BARSTOW STREET
WAUKESHA, WI 53187
(262) 548-8739
nguyen.ly@dot.wi.gov

GENERAL NOTES

ALL RADII DIMENSIONS ARE MEASURED TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

ALL PAVING DETAILS STATIONING AND OFFETS ARE TAKEN AT THE EDGE OF PAVEMENT.

ALL GRADES PROVIDED ALONG RADII ARE ALONG EDGE OF PAVEMENT.

THE LOCATION OF EXISTING AND PROPOSED UTILITIES INSTALLATION AS SHOWN IN THE PLANS ARE APPROXIMATE. THERE MAYBE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

UTILITY REFERENCE LINES ON THE CROSS SECTIONS ARE FOR APPROXIMATE HORIZONTAL REFERENCE ONLY.

REMOVAL ITEMS REQUIRING RESTORATION OF CONCRETE OR ASPHALT SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE ENGINEER.

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE, AND MULCH/EROSION MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN (14) CALENDAR DAYS, SEED THOSE AREAS WITH TEMPORARY SEED AND MULCH.

STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED AND MULCH.

EROSION CONTROL DEVICES ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER REQUIRED

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

PIPE ELEVATIONS, LENGTHS, AND LOCATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED TO FIT EXISTING FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

CONTRACTOR IS RESPONSIBLE FOR RESHAPING AND FINISHING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY THEIR OPERATION OUTSIDE THE NORMAL CONSTRUCTION LIMITS.

THE EXACT LOCATION OF DRIVEWAYS IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER. ALL DRIVEWAYS ARE TO BE REPLACED IN KIND.

SIDEROAD PAVEMENT STRUCTURE SHALL BE THE SAME AS THE MAINLINE UNLESS OTHERWISE NOTED.

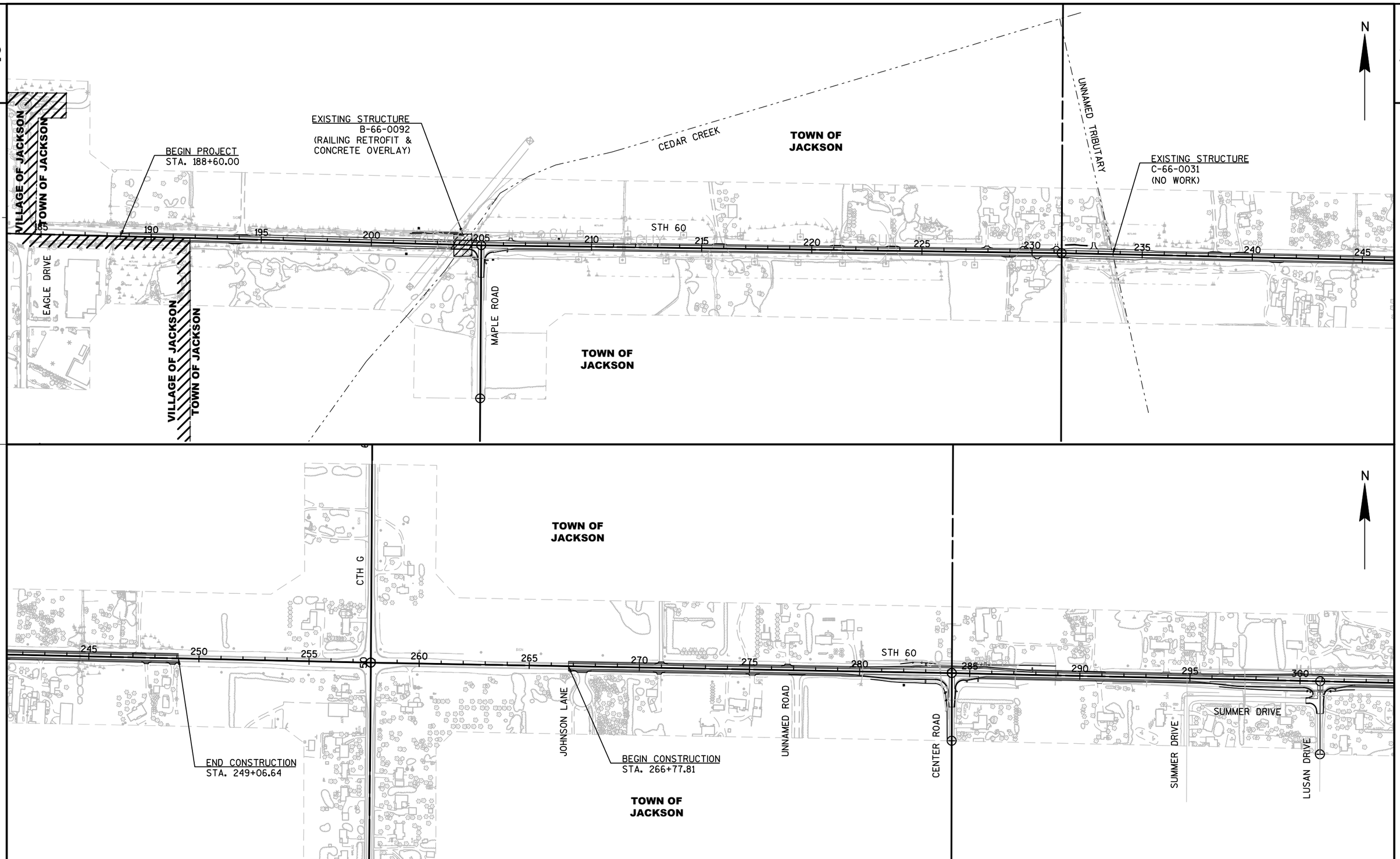
THE CONTRACTORS HMA PAVING OPERATION SHALL BE CONSISTENT WITH THE TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN DRIVING, TURNING, PASSING OR PARKING LANE.

CONTRACTOR MUST CONTACT THE PROJECT ENGINEER, SEWRPC (JOHN WASHBURN), AND THE OZAUKEE COUNTY HIGHWAY COMMISSIONER (JON EDGREN) OR THE WASHINGTON COUNTY SURVEYOR (SCOTT SCHMIDT), AT LEAST TWO (2) WEEKS PRIOR TO WORK NEAR ANY SECTION CORNER MONUMENT.

CONSTRUCT HMA PAVEMENT WITH THE FOLLOWING LAYERS AND GRADATIONS:

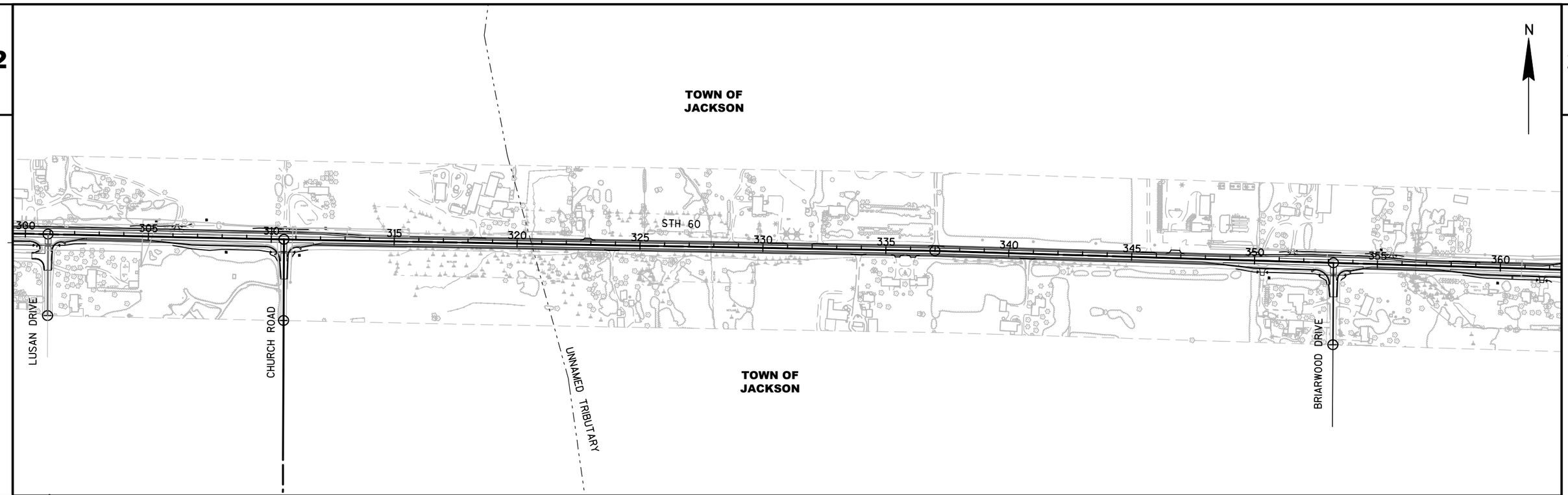
LOCATION	PAVEMENT DESCRIPTION	TOTAL LAYER PAVEMENT THICKNESS	LAYERS	PAVEMENT TYPES
MILL AND OVERLAY	4" HMA PAVEMENT	2 1/4" 1 3/4"	LOWER LAYER UPPER LAYER	3LT58-28S 4LT58-28S
RECONSTRUCT	6 1/2" HMA PAVEMENT	2 1/2" 2 1/4" 1 3/4"	LOWER-LOWER LAYER UPPER-LOWER LAYER UPPER LAYER	3LT58-28S 3LT58-28S 4LT58-28S

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



PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - 020201-PO - 020201
PLOT DATE : 5/1/2018 9:21 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:400 FT
WISDOT/CADDS SHEET 44



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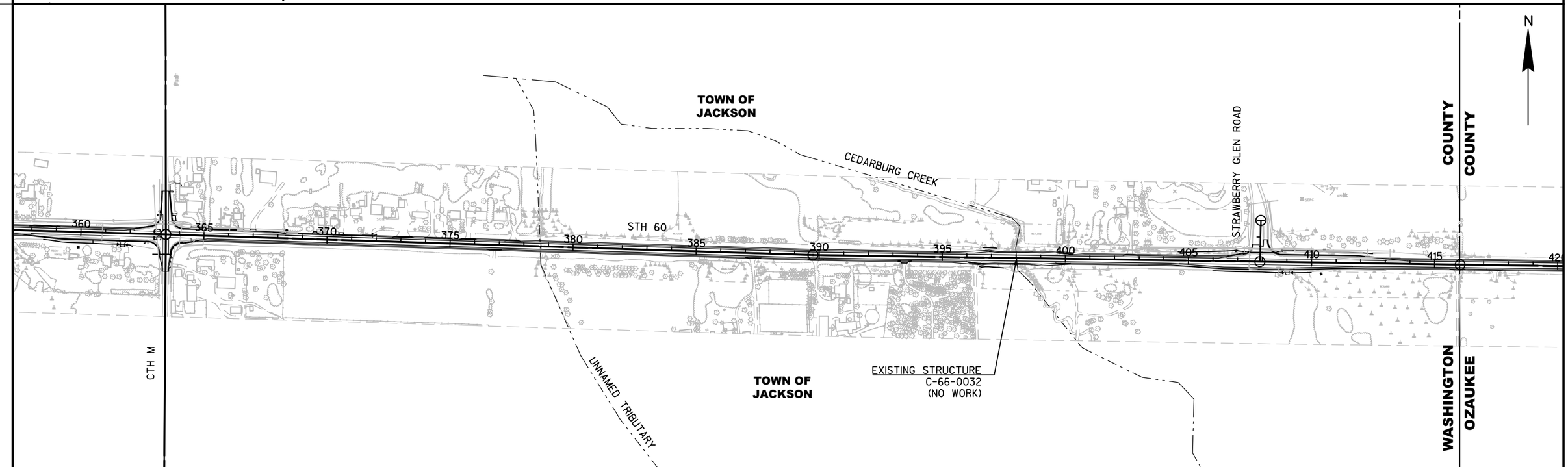
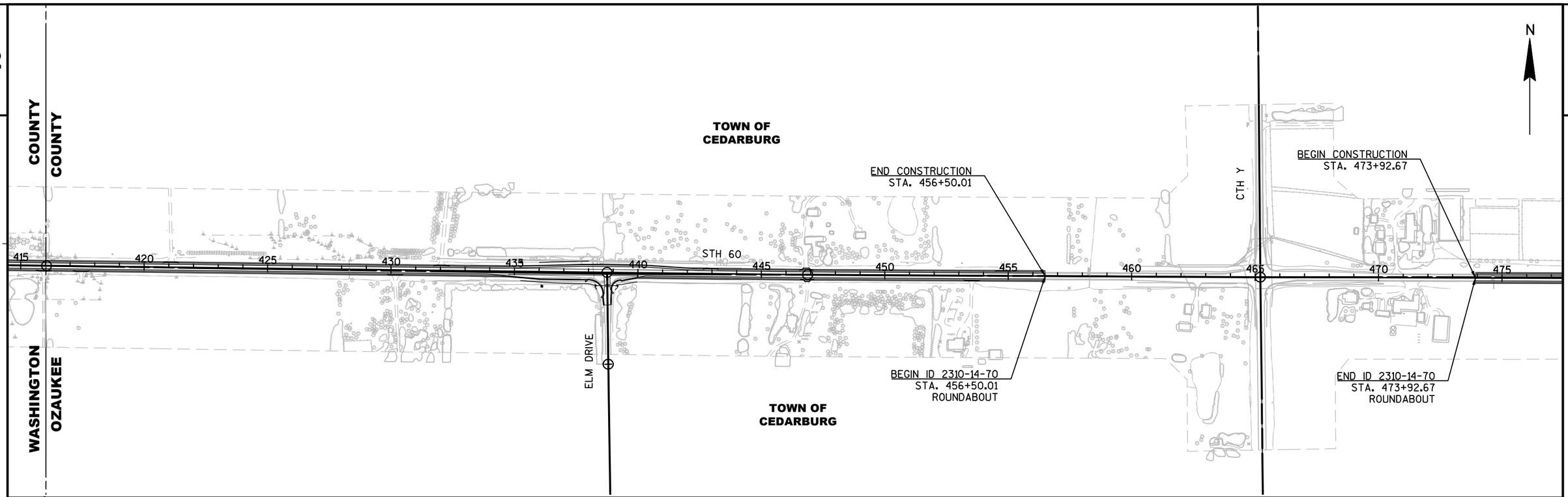
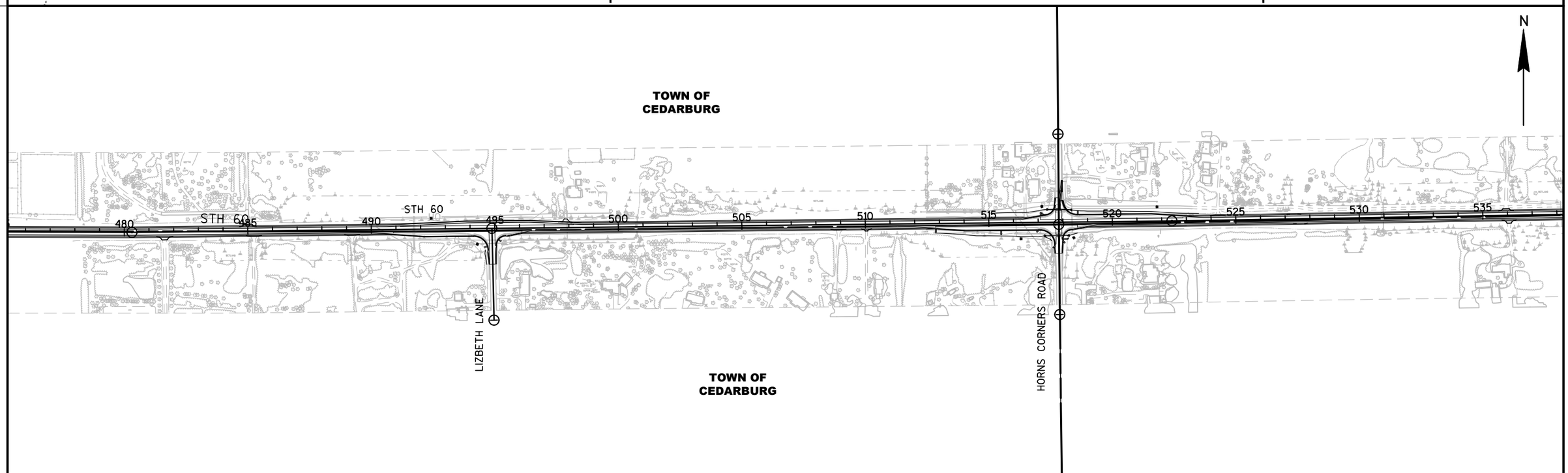


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PROJECT OVERVIEW	SHEET 4	E

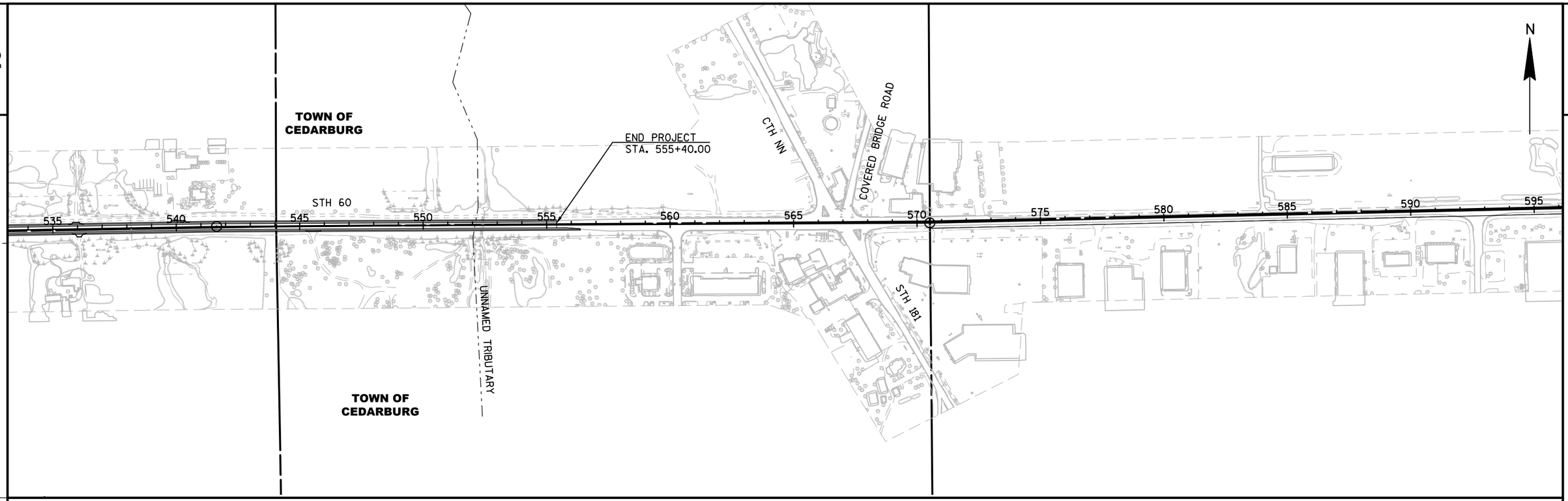
FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - 020201-PO - 020202
PLOT DATE : 5/1/2018 9:23 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:400 FT
WISDOT/CADDS SHEET 44



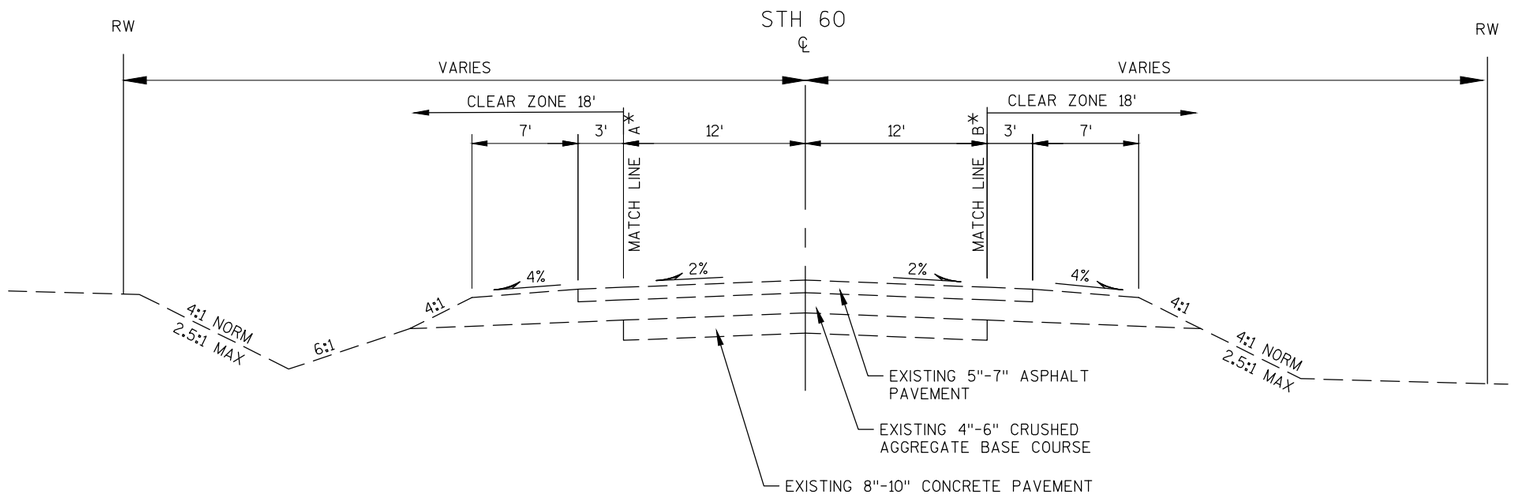


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PROJECT OVERVIEW	SHEET 5	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - 020201-PO - 020203
PLOT DATE : 5/1/2018 9:24 AM
PLOT BY : KEVIN WEIGHNER
PLOT NAME :
PLOT SCALE : 1 IN:400 FT
WISDOT/CADDS SHEET 44



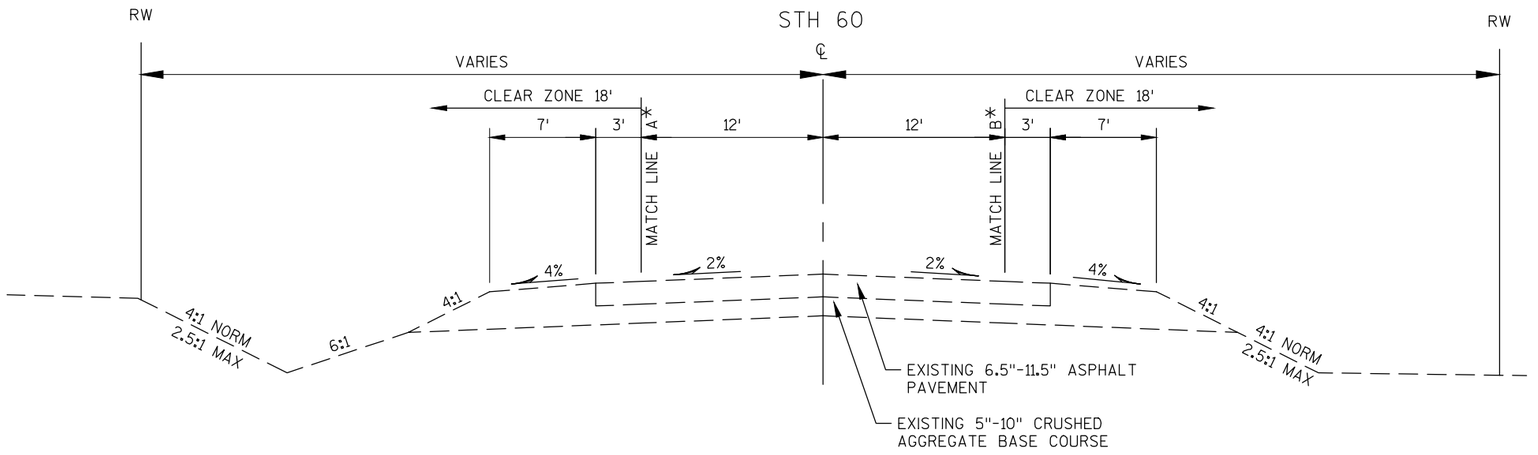
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PROJECT OVERVIEW	SHEET 6	E



EXISTING TYPICAL SECTION
STH 60

STA 188+60.00 - STA 203+74.35
STA 204+55.85 - STA 231+00.00

(STA 203+73.74 - STA 204+54.51)
STRUCTURE B-66-0092



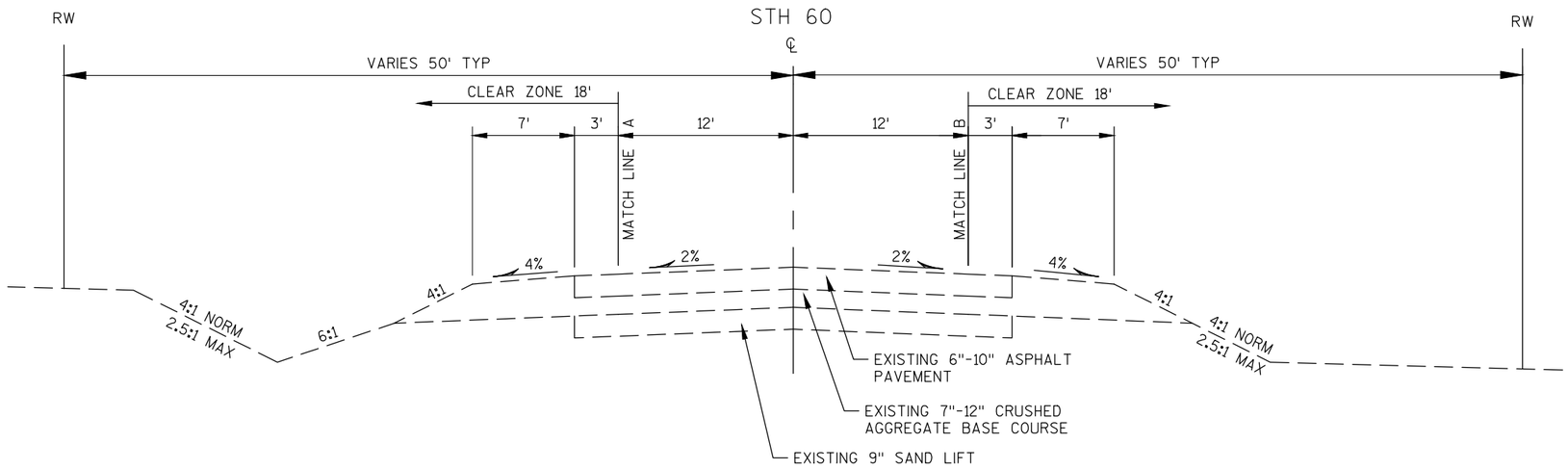
EXISTING TYPICAL SECTION
STH 60

STA 231+00.00 - STA 249+06.64
STA 266+77.81 - STA 416+00.00

*SEE NEXT SHEET FOR TYPICAL RIGHT TURN & BYPASS LANES

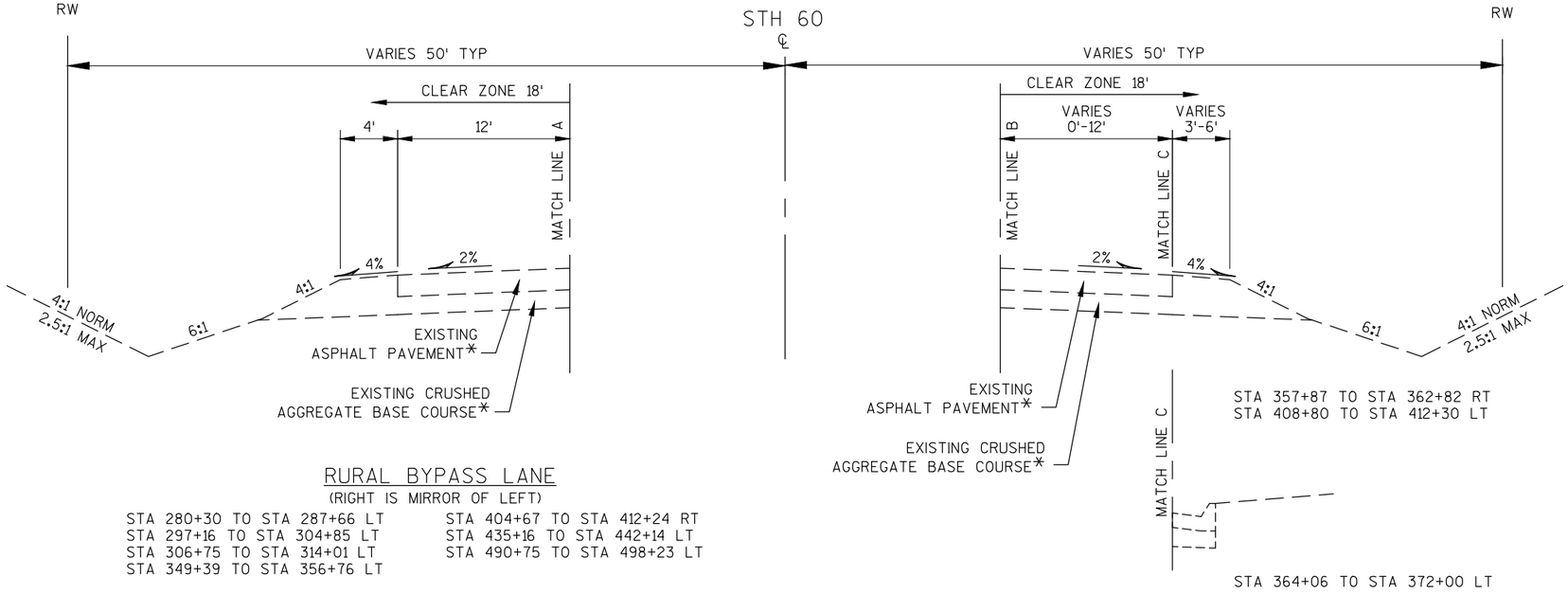
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	TYPICAL SECTIONS	SHEET 7	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\020301-TS.DWG PLOT DATE : 4/26/2018 2:53 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : ---------- PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



EXISTING TYPICAL SECTION
STH 60

STA 416+00.00 - STA 456+50.01
STA 473+92.67 - STA 555+40.00



RURAL BYPASS LANE

(RIGHT IS MIRROR OF LEFT)

STA 280+30 TO STA 287+66 LT
STA 297+16 TO STA 304+85 LT
STA 306+75 TO STA 314+01 LT
STA 349+39 TO STA 356+76 LT
STA 404+67 TO STA 412+24 RT
STA 435+16 TO STA 442+14 LT
STA 490+75 TO STA 498+23 LT

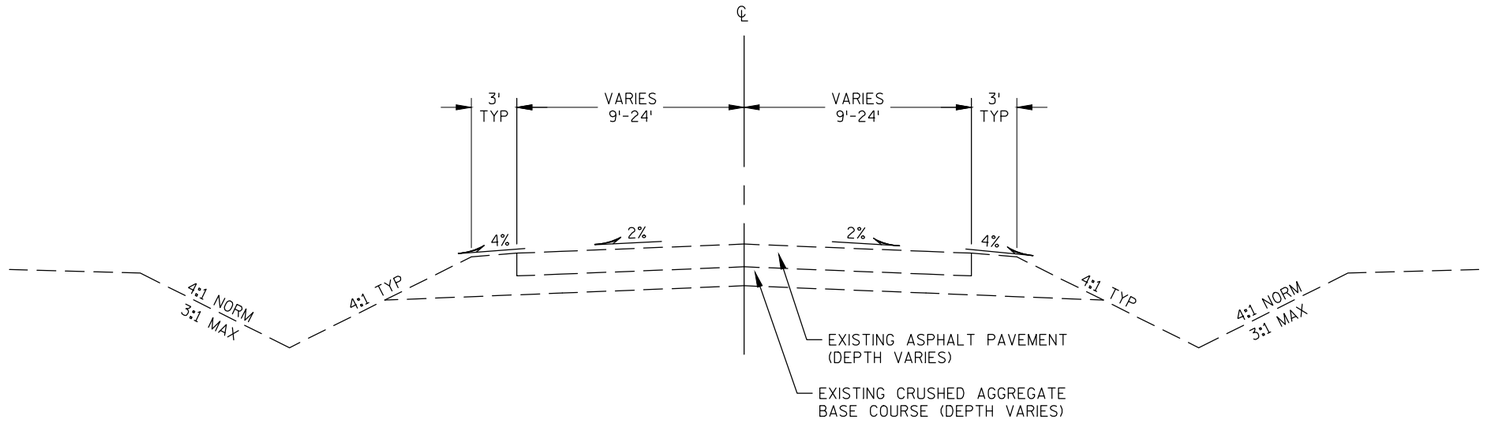
*ASSUMED DEPTH TO BE THE SAME AS MAINLINE PAVEMENT, NOT PART OF PAVEMENT DESIGN REPORT

RURAL RIGHT TURN LANE

(LEFT IS MIRROR OF RIGHT)

*ASSUMED DEPTH TO BE THE SAME AS MAINLINE PAVEMENT, NOT PART OF PAVEMENT DESIGN REPORT

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	TYPICAL SECTIONS	SHEET 8	E

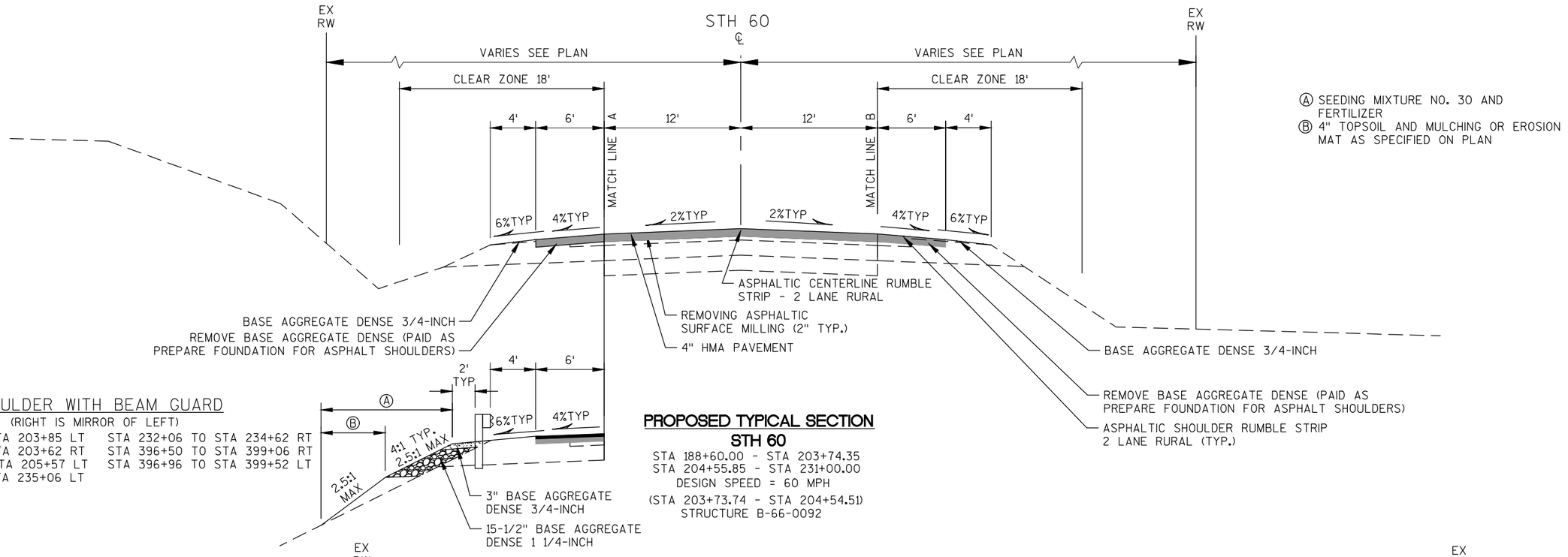


EXISTING TYPICAL SECTION

SIDE ROAD

MAPLE ROAD
CENTER ROAD
LUSAN ROAD
CHURCH ROAD
BRIARWOOD DRIVE
CTH M
ELM ROAD
LIZBETH LANE
HORNS CORNERS ROAD

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	TYPICAL SECTIONS	SHEET 9	E



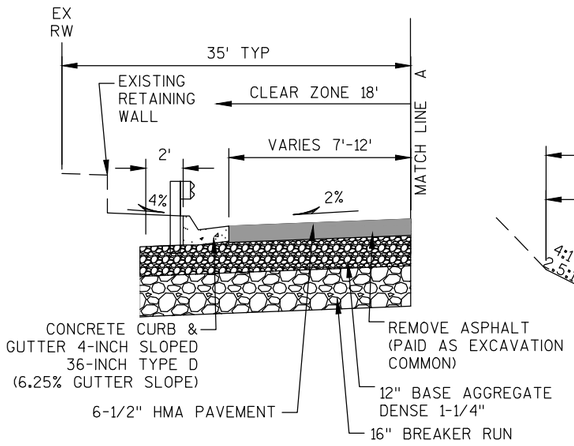
PROPOSED TYPICAL SECTION
STH 60

STA 188+60.00 - STA 203+74.35
STA 204+55.85 - STA 231+00.00
DESIGN SPEED = 60 MPH
(STA 203+73.74 - STA 204+54.51)
STRUCTURE B-66-0092

SHOULDER WITH BEAM GUARD

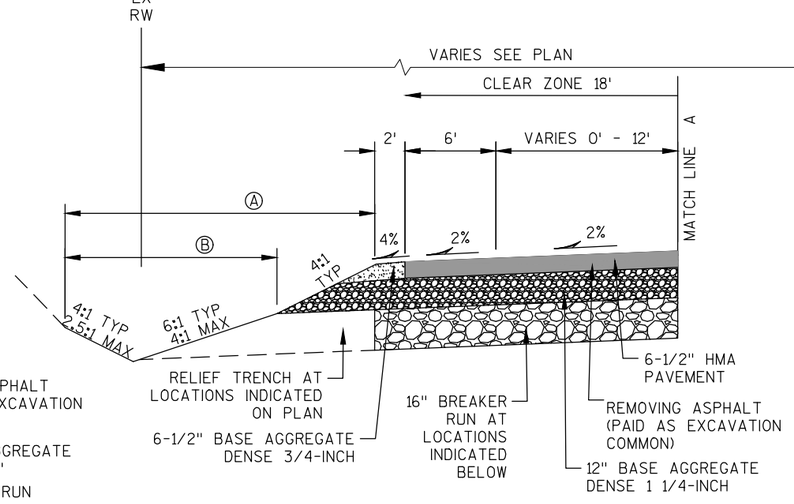
(RIGHT IS MIRROR OF LEFT)

STA 195+03 TO STA 203+85 LT
STA 201+57 TO STA 203+62 RT
STA 204+67 TO STA 205+57 LT
STA 231+92 TO STA 235+06 LT
STA 232+06 TO STA 234+62 RT
STA 396+50 TO STA 399+06 RT
STA 396+96 TO STA 399+52 LT



RIGHT TURN LANE WITH CURB & GUTTER

STA 364+16 TO 371+86 LT

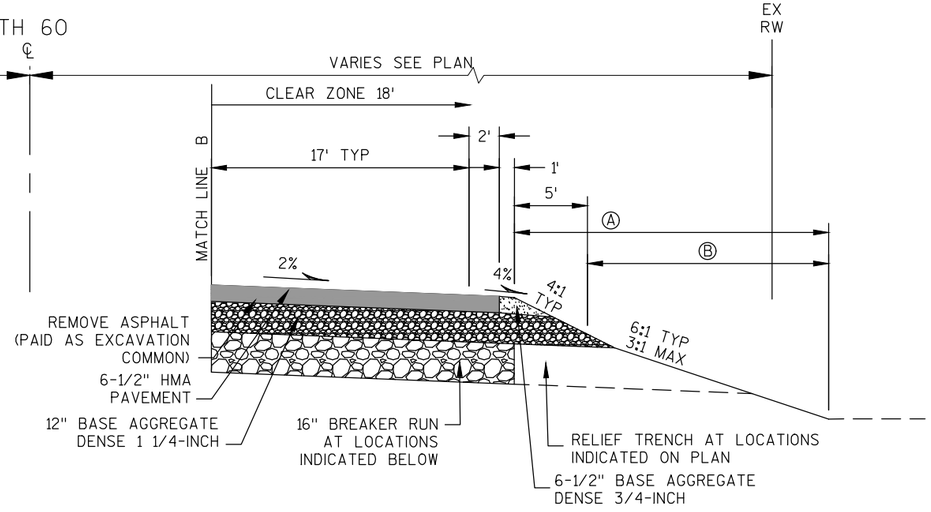


RURAL BYPASS LANE

(RIGHT IS MIRROR OF LEFT)

STA 280+48 TO STA 287+86 LT*
STA 297+18 TO STA 313+82 LT
STA 351+00 TO STA 356+52 LT
STA 404+63 TO STA 411+65 RT
STA 435+04 TO STA 442+06 LT
STA 491+17 TO STA 498+19 LT

*= 16" BREAKER RUN SUB-BASE AT THIS LOCATION



RURAL RIGHT TURN LANE

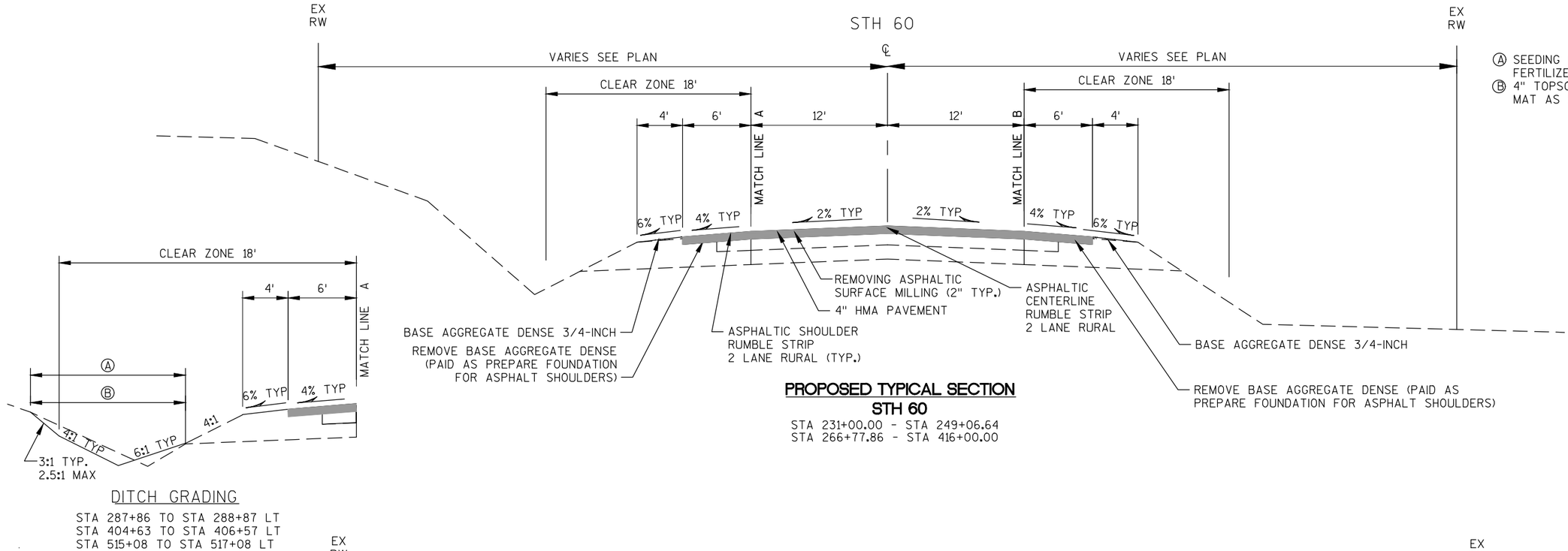
(LEFT IS MIRROR OF RIGHT)

STA 280+20 TO STA 283+45 RT*
STA 295+91 TO STA 300+17 RT
STA 305+54 TO STA 309+78 RT
STA 349+24 TO STA 352+49 RT
STA 357+98 TO STA 362+73 RT*
STA 406+57 TO STA 413+04 LT
STA 434+77 TO STA 438+03 RT
STA 490+89 TO STA 494+15 RT
STA 512+83 TO STA 517+08 RT*
STA 518+59 TO STA 522+86 LT*

*= 16" BREAKER RUN SUB-BASE AT THIS LOCATION

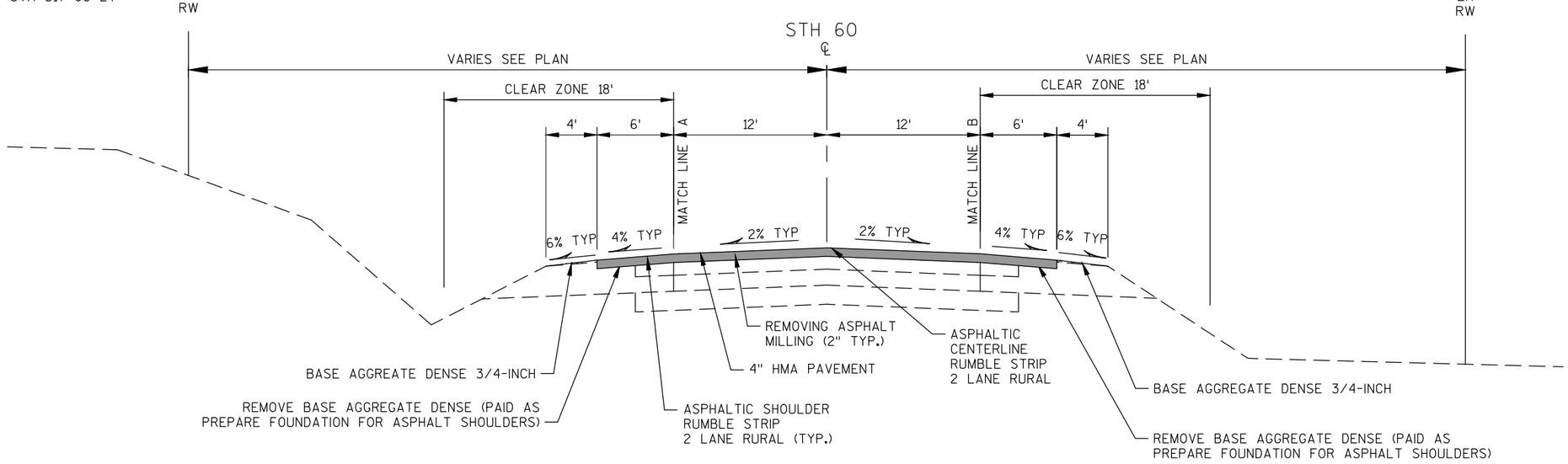
NOTE: SEE CONSTRUCTION DETAILS FOR REMOVING ASPHALTIC SURFACE MILLING AND PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	TYPICAL SECTIONS	SHEET 10	E



PROPOSED TYPICAL SECTION
STH 60
STA 231+00.00 - STA 249+06.64
STA 266+77.86 - STA 416+00.00

DITCH GRADING
STA 287+86 TO STA 288+87 LT
STA 404+63 TO STA 406+57 LT
STA 515+08 TO STA 517+08 LT

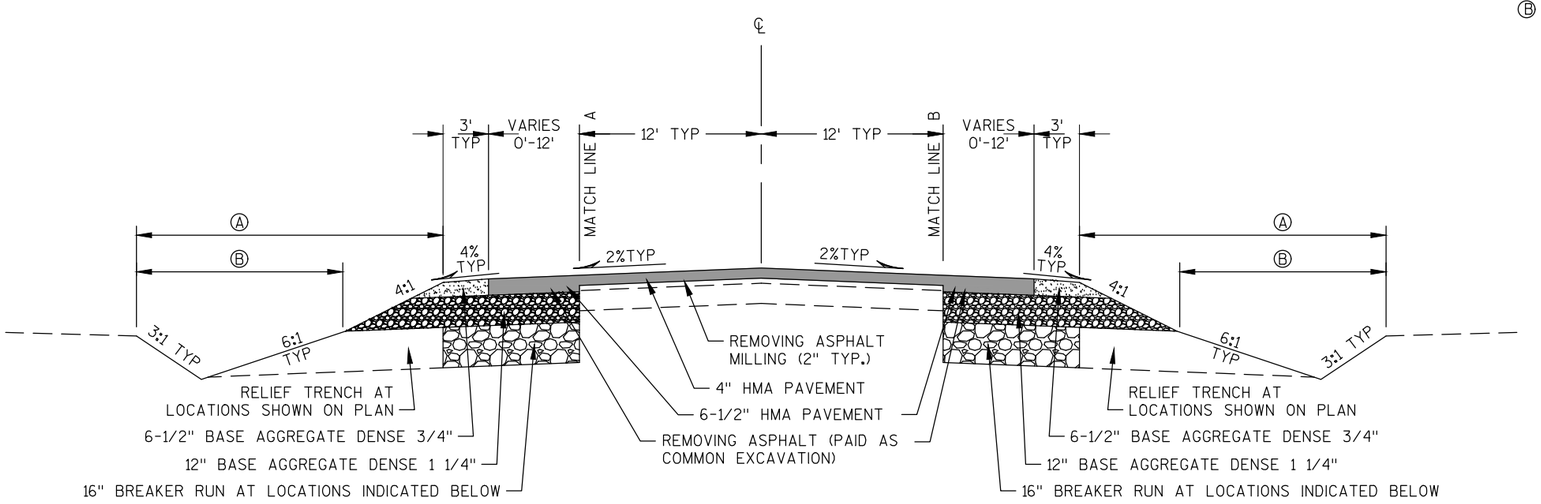


PROPOSED TYPICAL SECTION
STH 60
STA 416+00.00 - STA 456+50.01
STA 473+92.67 - STA 555+40.00

NOTE: SEE CONSTRUCTION DETAILS FOR REMOVING ASPHALTIC SURFACE MILLING AND PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	TYPICAL SECTIONS	SHEET 11	E

Ⓐ SEEDING MIXTURE NO. 30 AND FERTILIZER
Ⓑ 4" TOPSOIL AND MULCHING OR EROSION MAT AS SPECIFIED ON PLAN



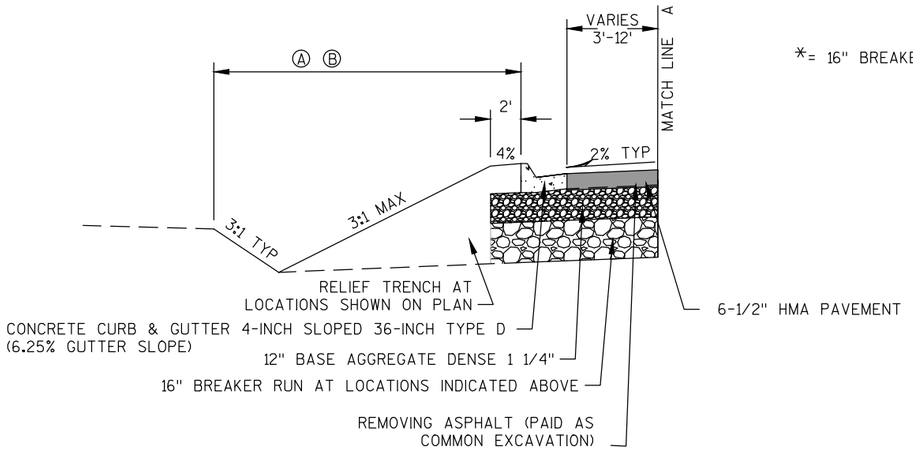
RURAL SHOULDER

RURAL SHOULDER

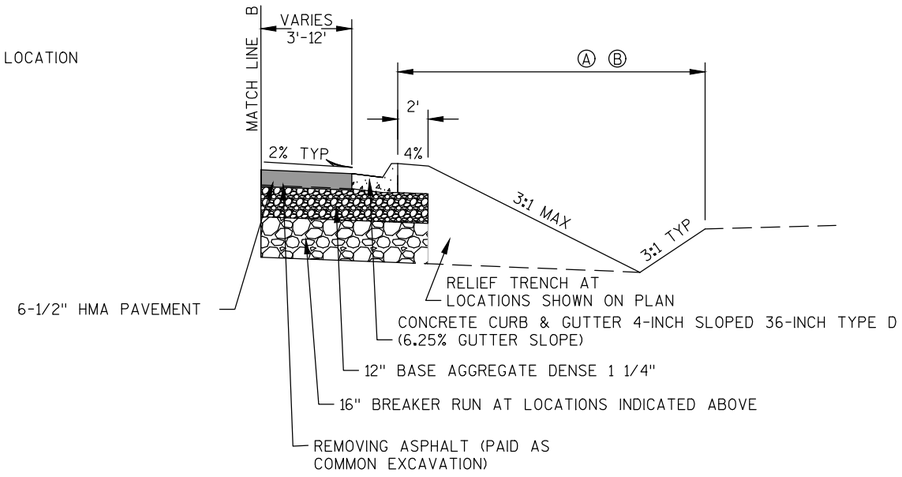
PROPOSED TYPICAL SECTION
SIDE ROAD

MAPLE ROAD*
CENTER ROAD*
LUSAN ROAD
CHURCH ROAD
BRIARWOOD DRIVE
CTH M*
ELM ROAD
LIZBETH LANE
HORNS CORNERS ROAD*

*= 16" BREAKER RUN SUB-BASE AT THIS LOCATION



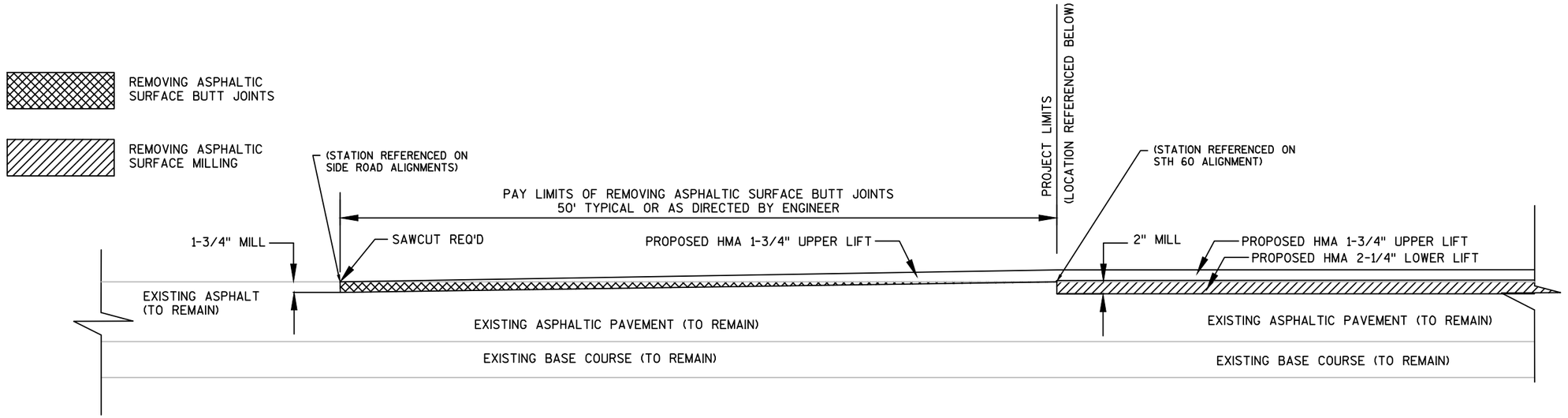
CURB & GUTTER



CURB & GUTTER

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	TYPICAL SECTIONS	SHEET 12	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\020301-TS.DWG PLOT DATE : 4/26/2018 2:53 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : ---------- PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



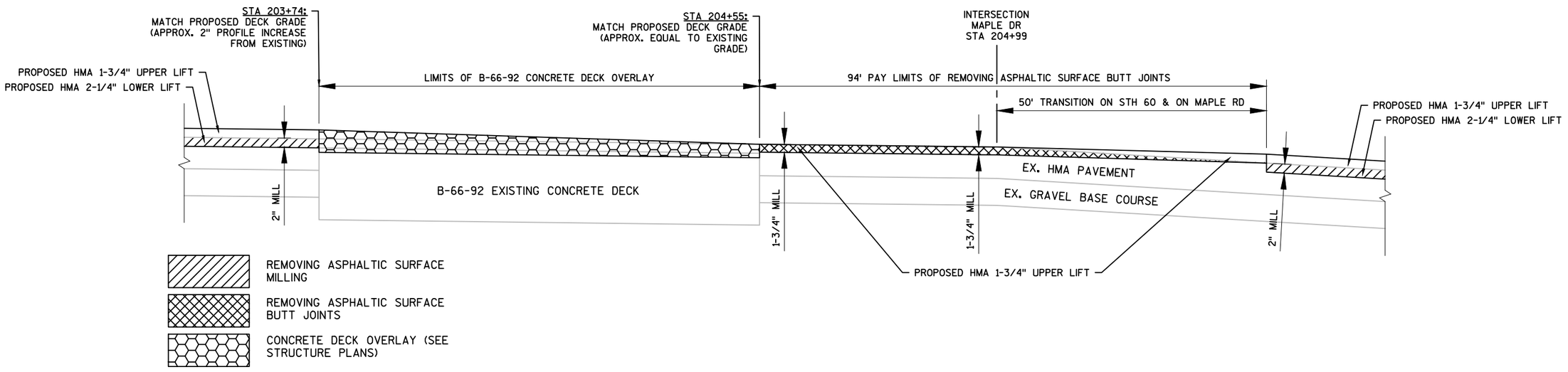
PAVEMENT BUTT JOINT DETAIL

(AT PROPOSED CONSTRUCTION LIMITS)

STA 188+60.00
STA 249+06.64
STA 266+77.81
STA 555+40.00

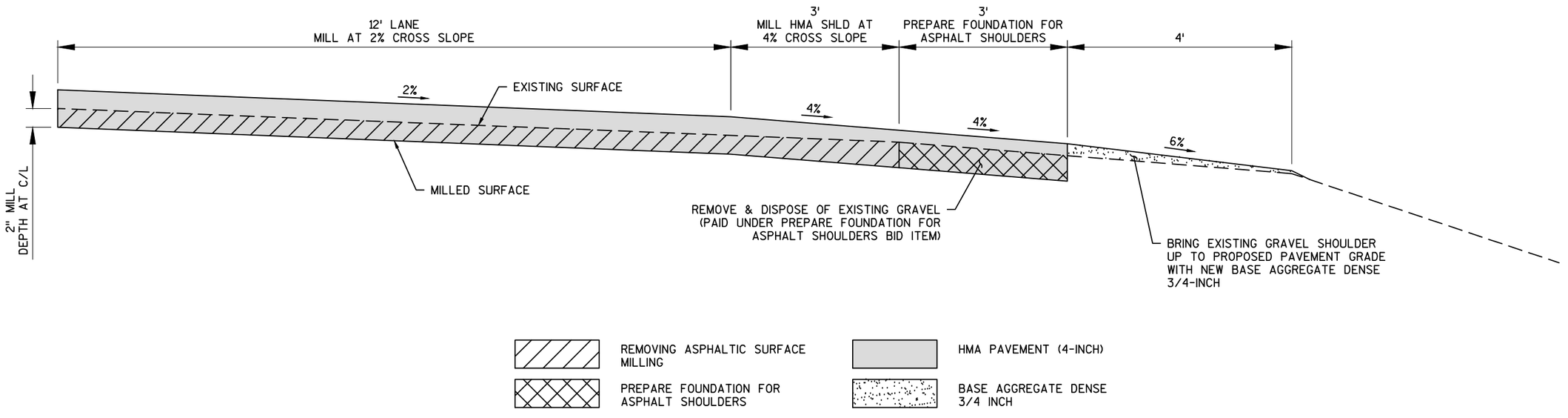
STA 5+50.05 (MAPLE DR)
STA 1+53.75 (CENTER RD)
STA 1+85.11 (LUSAN DR)
STA 2+44.07 (SUMMER DR)
STA 1+68.75 (CHURCH RD)
STA 1+94.44 (BRIARWOOD DR)

STA 48+50.00 (CTH M)
STA 51+76.62 (CTH M)
STA 2+40.14 (ELM DR)
STA 2+26.86 (LIZBETH LN)
STA 2+48.16 (HORNS CORNER RD)
STA 4+72.89 (HORNS CORNER RD)

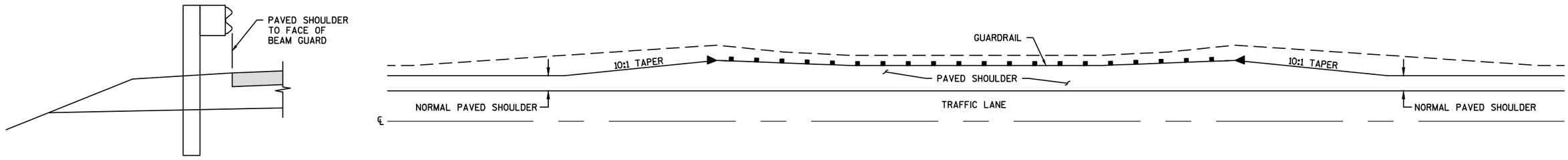


PAVEMENT BUTT JOINT DETAIL

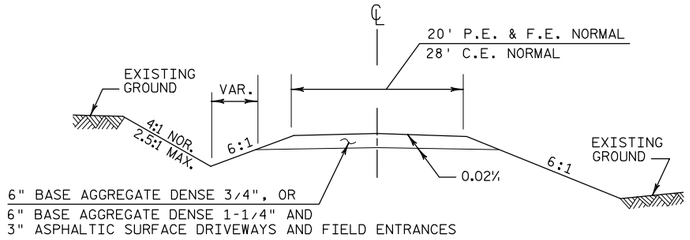
(AT B-66-92 EAST ABUTMENT)



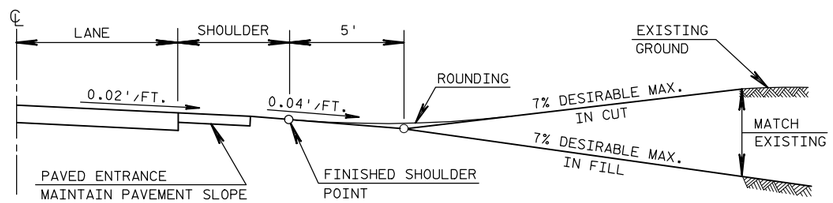
ASPHALT MILLING & PREPARE FOUNDATION DETAIL



PAVED SHOULDER AT BEAM GUARD

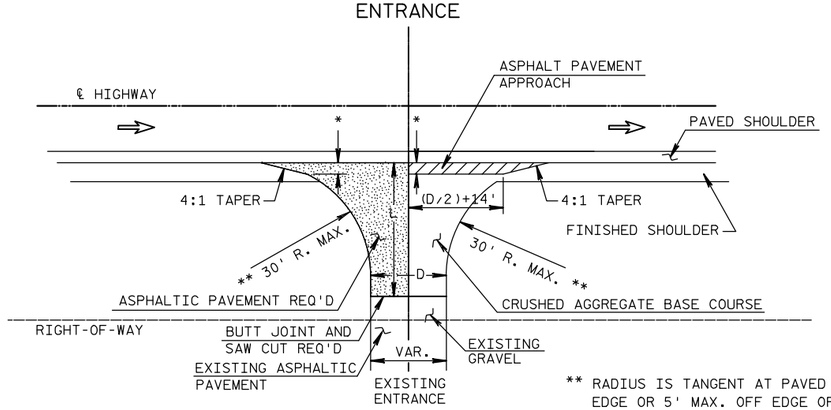


TYPICAL CROSS SECTION



PROFILE VIEW

℄
ENTRANCE



L=VARIABLE, EXACT LENGTH TO BE DETERMINED IN THE FIELD BY THE ENGINEER. BLEND BACK ON THE ENTRANCE FAR ENOUGH TO GET A SMOOTH PROFILE.

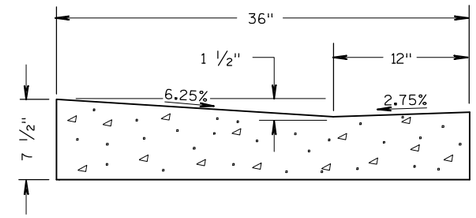
D=DRIVEWAY WIDTH
D=20'TYP.(PE's & FE's) (16'MIN.-24'MAX.)
D=28'TYP.(CE's & FARM ENT.) (24'MIN.-35'MAX.)

** RADIUS IS TANGENT AT PAVED SHOULDER EDGE OR 5' MAX. OFF EDGE OF MAIN LINE PAVEMENT WHICH EVER IS LESS.

* 3' MAX. OR TO FINISHED SHOULDER WHICH EVER IS LESS.

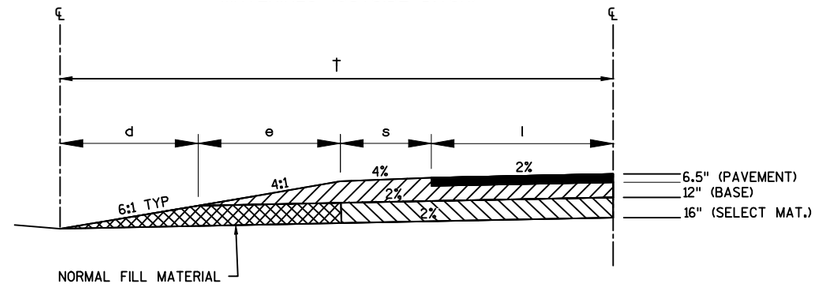
PLAN VIEW

RURAL DRIVEWAY INTERSECTION DETAIL (PE's, FE's & CE'S)
(FOR NEW CONSTRUCTION)

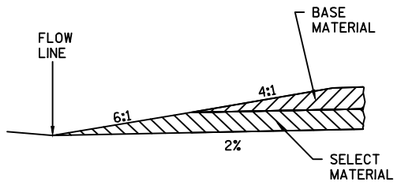


CONCRETE CURB & GUTTER
36 INCH, TYPE "D" MODIFIED
(AT DRIVEWAYS AND LOCATIONS NOTED ON THE PLAN)

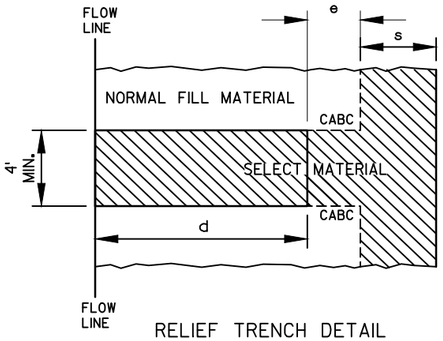
TYPICAL HALF SECTION WITH SELECT MATERIALS (OUTSIDE DITCH)



e = 4.35 (1.54 - 0.02s)
d = 9.09 @ 6:1
d = 5.80 @ 4:1



RELIEF TRENCH DETAIL *
PROFILE VIEW

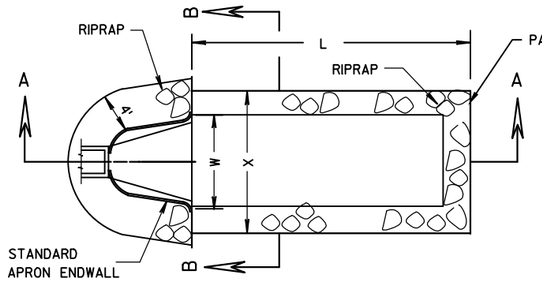


RELIEF TRENCH DETAIL
PLAN VIEW

SUBGRADE RELIEF TRENCH

CONSTRUCT RELIEF TRENCH AT:

STH 60	MAPLE RD
STA 206+18 RT	STA 6+40 LT
STA 283+00 LT	STA 6+28 RT
STA 283+00 RT	
STA 285+38 RT	CENTER RD
STA 285+50 LT	STA 2+21 LT
STA 287+84 LT	
STA 360+50 RT	CTH M
STA 371+84 LT	STA 50+79 LT
STA 512+85 RT	STA 51+75 RT
STA 515+50 RT	
STA 517+10 LT	HORNS CORNERS RD
STA 518+60 LT	STA 3+07 RT



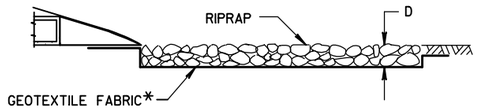
L = 3 X W (NOR) OR 10' MIN
OR AS DIRECTED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER

D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

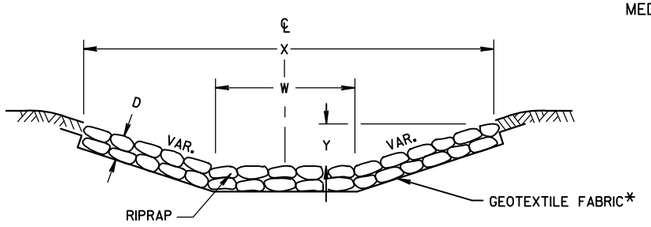
X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

Y = 0' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

* TYPE R (FOR RIPRAP LIGHT
ONLY) TYPE HR (FOR RIP RAP
MEDIUM AND HEAVY)

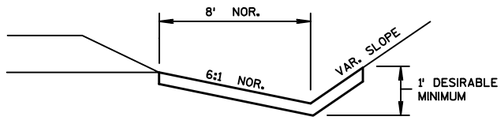


SECTION A-A

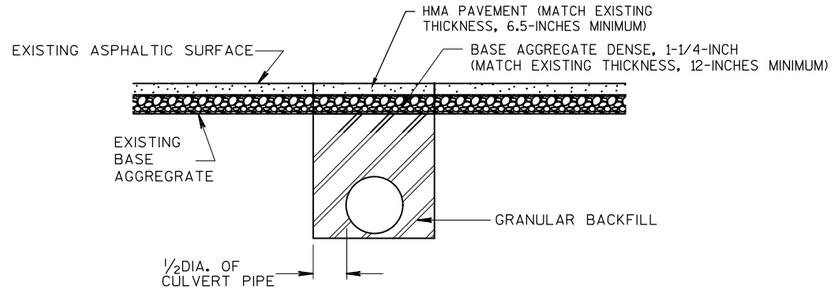


SECTION B-B

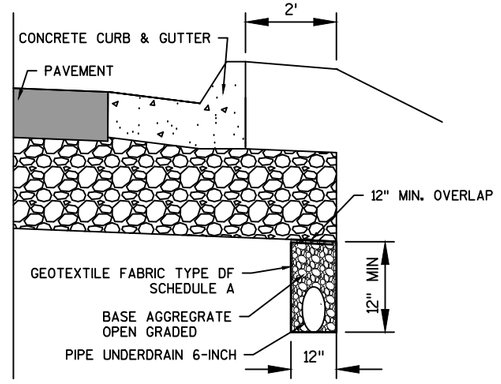
RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS



EROSION MAT DETAIL FOR DITCHES



DETAIL FOR CULVERT PIPE INSTALLATION IN AREAS OF EXISTING PAVEMENT



PIPE UNDERDRAIN DETAIL

2

2

N

BEGIN PROJECT 2310-17-00
STA. 188+60.00

LODUHDA
ROBERT J

LODUHDA
ROBERT J

WETLAND

SIGN

EXISTING R/W

184 186 188 STH 60 190 192 194 196 198 198+50

EXISTING R/W

MATCHLINE

WETLAND

A/C

RIPRAP

MINSHALL
CYNTHIA R

RATHKE T
OSCAR T
RUTH

EAGLE DR

THOMPSON
BRUK P
ANNMARIE

MANSENS MANAGEMENT
SERVICES LLC

FLAG

CANOPY

SIGN

INL

MH

W

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
- (A) REMOVING SURFACE DRAINS
- xxxx SAWING ASPHALT
- xxxx SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 17	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021011

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

LODUHDA
ROBERT J

LODUHDA
ROBERT J AND
ANDREA

GOLL
JOHN A
DEBR.

198+50

213+50

STRUCTURE B-66-0092

PROP. R/W

TLE

EXISTING R/W

WETLAND

CEDAR CR

HO

OH

SIGN

200 STH 60 202 204 206 STH 60 208 210 212

MATCHLINE

A

MAPLE RD

RATHKE TRUST
OSCAR T JR
RUTH H

TRUST
RATHKE FAMILY

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
- (A) REMOVING SURFACE DRAINS
- SAWING ASPHALT
- SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 18	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021012

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

GOLL
JOHN A AND
DEBRA

HESS
ANDREW

GOLL
JOHN A AND
DEBRA

GOLL
JOHN A AND
DEBRA

EICKSTEDT
RONALD W

EICKSTEDT
RONALD W

LINDLOFF
DANIEL P AND
KATHLEEN M

213+50

228+50

/W

EXISTING R/W

214 216 218 220 222 224 STH 60 226 228

EXISTING R/W

MATCHLINE

MATCHLINE

WETLAND

MILY

ENGELBRECHT
JANICE

ENGELBRECHT
JANICE

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
- (A) REMOVING SURFACE DRAINS
- xxxx SAWING ASPHALT
- xxxx SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 19	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021013

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

NDLOFF
EL P AND
HLEEN M

HELLER
MICHAEL L

EHLKE
HAROLD N

POOL

KANNENBERG
RONALD AND
DOREEN

JACKSON MARSH

LYON
RODNEY AND
LYNNE

JACKSON MARSH

MH

228+50

MATCHLINE

WETLAND

EXISTING STRUCTURE
C-66-0031

EXISTING R/W

230 232 234 STH 60 236 238 240 242 STH 60

243+50

EXISTING R/W

SIGN

WETLAND

18 CP

W

MATCHLINE

RT
ON
L

HANKE
JAMES M

GILBERT
GORDON
ANN L

GILBERT
GORDON
ANN L

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
- (A) REMOVING SURFACE DRAINS
- SAWING ASPHALT
- SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP — REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS — REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 20	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021014

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

FISK
ELIZABETH R

RAMP

JACKSON MARSH

END CONSTRUCTION
STA. 249+06.64

ICZKOWSKI
RAYMOND E AND
PAMELA M

SCHNEIDER
EUGENE R AND
JUDIE E

HERRIAN
HENRY

CTH G/DIVISION RD

243+50

258+50

EXISTING R/W

SIGN

244 246 248 250 252 STH 60 254 256 258

MATCHLINE

HOUSE

GROTH
ROBERT C

HARMON
DIANE L

TOWN OF JACKSON

EXISTING R/W

MATCHLINE

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
- (A) REMOVING SURFACE DRAINS
- xxxx SAWING ASPHALT
- xxxx SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

REMOVAL PLAN 10-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 21 E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021015

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

GOLL
GARY L AND
MARILYN L

WANKE
SCOTT D

SCHMELZER REVOCABLE
CHRYSTA M

BEGIN CONSTRUCTION
STA. 266+77.81

258+50

273+50

SIGN

EXISTING R/W

260 262 STH 60 264 266 268 270 STH 60 272

EXISTING R/W

MATCHLINE

MATCHLINE

JOHNSON LN

WYDERKA
STEVEN K
ANDREW J

WYDERKA
STEVEN K
ANDREW J

EICKSTEDT
RONALD W
LINDA J

GILBERT
GORDON
ANN L

GREIFENHAGEN
GARY K
KIMBERLY A

MCLELLAN
CALLAN

BUBLITZ
STEVEN

FLAG

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
- (A) REMOVING SURFACE DRAINS
- xxxx SAWING ASPHALT
- xxxx SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 22	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021016

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

OCABLE
M

MALNORY
THOMAS H

CHEELY
JOYCE L AND
BURL L

GOLL
GARY L AND
MARILYN L

TISCHER
DENNIS R

C AND H
PROPERTY LLC

TISCHER
DENNIS R AND
ELFREDIA

273+50

SIKORSKI
PAUL

WALLS

RIPRAP

RIPRAP

EXISTING R/W

274

276

278

STH 60

280

282

284

286

STH 60

288

288+50

18
CP

18
CP

18
CP

SIGN

EXISTING R/W

EXISTIN

MATCHLINE

MATCHLINE

TLE

CENTER RD

SEPV

SEPC

BELLANTE
SALVATORE
JACQUELINE L

KOWALSKE
ELMER
DIANE

CORNE
DONAL
DOLOR

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
- (A) REMOVING SURFACE DRAINS

- SAWING ASPHALT
- SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP — REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS — REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

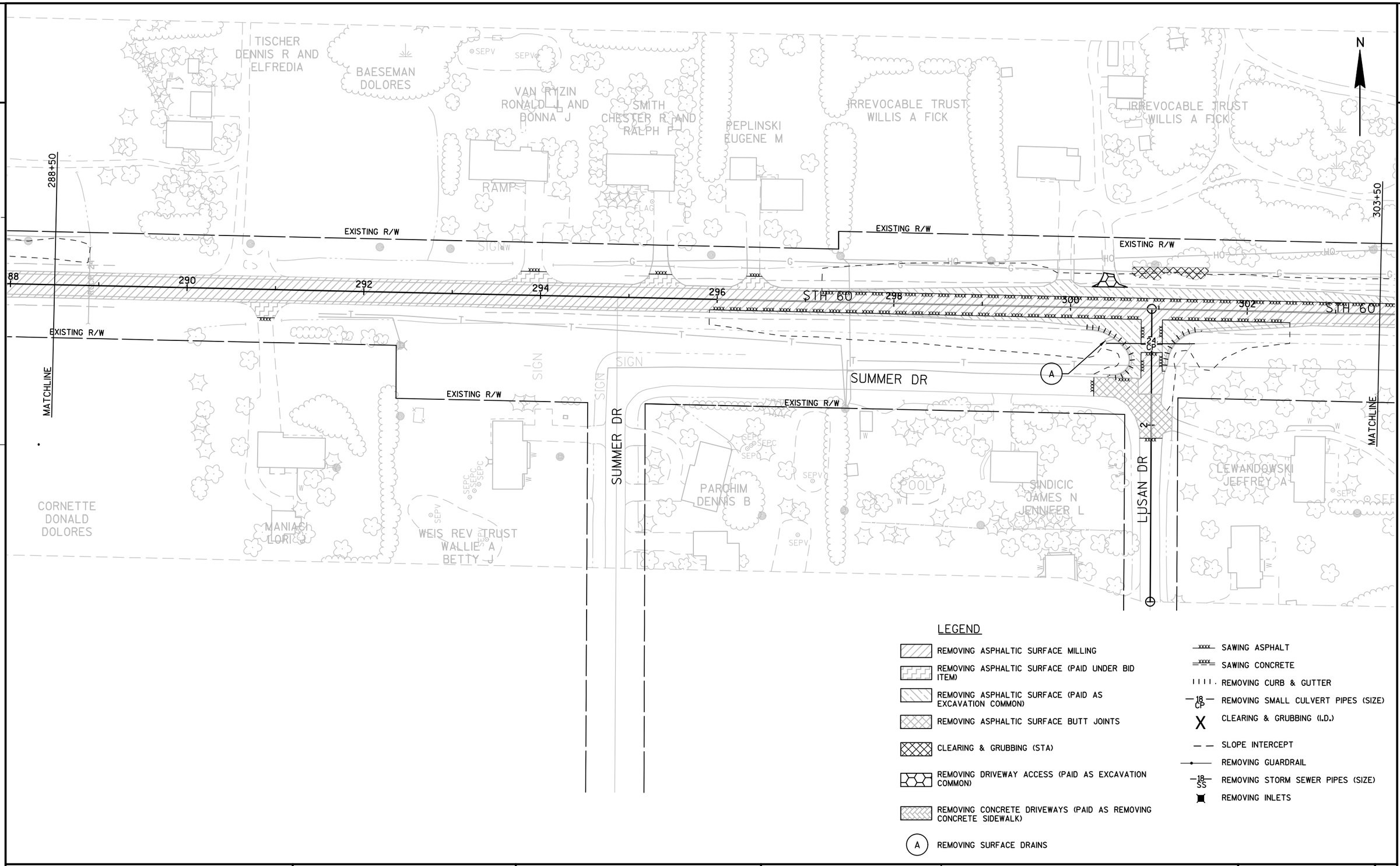
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 23	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021017

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
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- REMOVING CURB & GUTTER
- 18 CP — REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS — REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 24	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021018
PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

IRREVOCABLE TRUST
WILLIS A FICK

PECHER
RICHARD A AND
MARGARET A

PECHER
RICHARD A A
MARGARET

STH 60 STA.=310+51.42
CHURCH RD STA.=3+30.02

303+50

318+50

STH 60

EXISTING R/W

EXISTING R/W

EXISTING R/W

MATCHLINE

MATCHLINE

PROP. R/W

CHURCH DR

WETLAND

SCHOUVILLER
DAVID MISKE
DOLORES

RUCK
MICHAEL A
KATHERINE E

SEPV

SEPC

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
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- SAWING CONCRETE
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- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS — REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 25	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021019

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

RAMP

CHRISTIANSON
THOMAS L

STREAM

MINOR'S GARDEN
CENTER INC

318+50

333+50

EXISTING CULVERT TO REMAIN

EXISTING CULVERT TO REMAIN

EXISTING R/W

320 322 324 326 STH 60 328 330 332 STH 60

18 CP

EXISTING R/W

MATCHLINE

MATCHLINE

WETLAND

WETLAND

WETLAND

HEIMKIN LLC

HEIMKIN LLC

TRUST
NORDBECK
INCOME

BUBLITZ TRUST
LAVERNE F
BEVERLY A

SCHOUVILLER

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
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- SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 26	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021020

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MINOR'S GARDEN CENTER INC

MINOR'S GARDEN CENTER INC

BOEHLKE DELBERT W JEAN S

BOEHLKE BOTTLE GAS CORP

333+50

348+50

EXISTING R/W

EXISTING R/W

I 60

334 336 338 340 342 344 346 STH 60 348

NG R/W

EXISTING R/W

MATCHLINE

MATCHLINE

WETLAND

FLAG

ITZ TRUST
VERNE F
VERLY A

WITTE LIVING TRUST
EDWARD R
MARLENE H

WITTE LIVING T
EDWARD R
MARLENE H

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
- (A) REMOVING SURFACE DRAINS

- SAWING ASPHALT
- SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

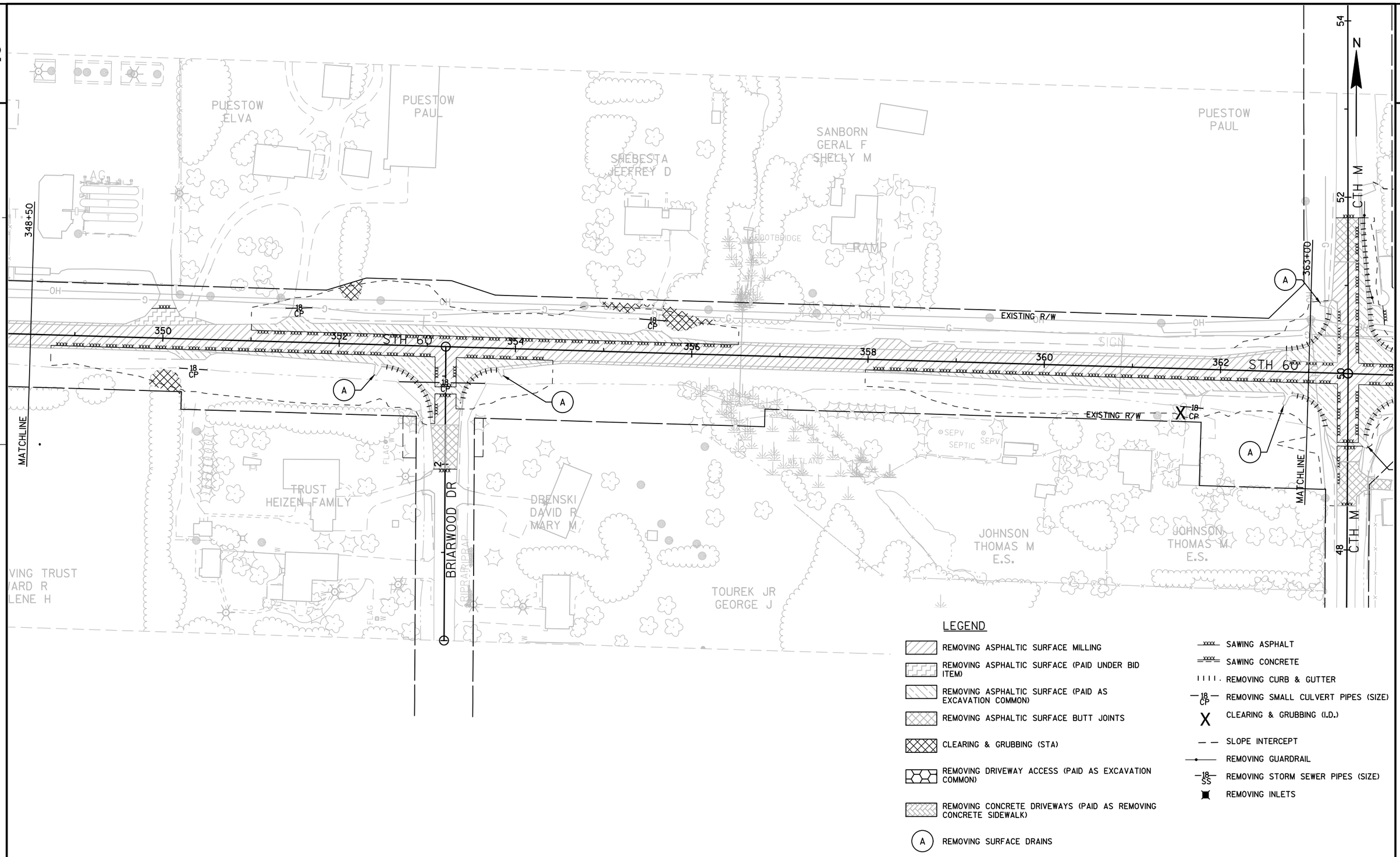
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 27	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021021

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
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- SAWING CONCRETE
- REMOVING CURB & GUTTER
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- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 28	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021022
PLOT DATE : 4/7/2016 9:54 AM
PLOT BY : KEVIN WEIGHNER
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

CTH M

54

52

50

48

46

363+00

378+00

MATCHLINE

MATCHLINE

A

WILHELME
MICHAEL R
PATRICIA G

LEACH
FRANK J
CARLA M

HELNORE
JERRY

BRUDER
LORY L

LIBSTER
JACOB

JONES
DENNIS K
KATHLEEN M

WENSEL
KENNETH J

BROST
MARK D

MILLER
MARK A

BRANDT
VERNON E

JONES
DENNIS K
KATHLEEN

ROEMBKE
RICHARD J
SYLVIA R

PLE

SIGN

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

60

364

366

368

370

372

STH 60

374

376

378

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
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- (A) REMOVING SURFACE DRAINS

- xxxx SAWING ASPHALT
- xxxx SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 29	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021023

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

JONES
DENNIS K
KATHLEEN M

MILLER
ETHEL L

MILLER
ETHEL L

HARTWIG
WILLIAM L
CHERYL

378+00

EXISTING CULVERT TO REMAIN

EXISTING R/W

WETLAND

378

STH 60

380

382

384

386

388

STH 60

390

392

EXISTING R/W

393+00

MATCHLINE

WETLAND

WETLAND

SIGN

SIGN

WETLAND

FLAG

MATCHLINE

KRUSE
LIVING TRUST

KRUSE
LIVING TRUST

KRUSE LC
JOHN W
PAMELA K

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
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- SAWING ASPHALT
- SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 30	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021024

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

HARTWIG
WILLIAM L
CHERYL

HARTWIG
WILLIAM L
CHERYL

HILLMANN
ERICH W
BARBARA K

STRAWBERRY GLEN
DEVELOPMENT LLC

STRAWBERRY GLEN RD

STRUCTURE C-66-0032
STA 397+96.34

393+00

408+00

WETLAND

RIPRAP

EXISTING R/W

EXISTING R/W

EXISTING R/W

394 396 398 STH 60 400 402 404 406 408

MATCHLINE

MATCHLINE

SCHICKER
ROBERT G

HARTWIG
ROBERT H
DAWN E

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
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- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 31	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021025

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

STRAWBERRY GLEN RD

408+00

MATCHLINE

MN HOLDINGS INC

SEPTIC

SEPV

SEPC

SEPC

MN HOLDINGS INC

WASHINGTON COUNTY
OZAUKEE COUNTY

BEL-FORD
FARM LLC

423+00

MATCHLINE

EXISTING R/W

STH 60

60'

60'

EXISTING R/W

408

410

412

414

416

418

420

422

WETLAND

MEUNIER
CHAS
ROSEMARIE

TEALCO
GROUP

MEUNIER
CHAS
ROSEMARIE

KASTEN FARM LL

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
- (A) REMOVING SURFACE DRAINS
- xxxx SAWING ASPHALT
- xxxx SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 32	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021026

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

TEALCO GROUP

TEALCO GROUP

TEALCO GROUP

423+00

437+50

EXISTING R/W

50'

50'

424 426 STH 60 428 430 432 434 STH 60 436

EXISTING R/W

EXISTING R/W

MATCHLINE

MATCHLINE

BEZELLA DIANE M.

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
- (A) REMOVING SURFACE DRAINS
- xxxx SAWING ASPHALT
- xxxx SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 33	E

2

2

N

GROUP

HELNORE
JERRY

HELNORE
JERRY

437+50

452+50

EXISTING R/W

438 440 442 STH 60 444 446 448 450 452

50'

50'

EXISTING R/W

18 CP

24 CP

TLE

TLE

MATCHLINE

MATCHLINE

ELM DR

SEPV

SEPTIC

SEPV

SEPC

ZIMMERSCHIED
GREGORY W

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
- (A) REMOVING SURFACE DRAINS
- xxxx SAWING ASPHALT
- xxxx SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 34	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021028

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

BUBLITZ
BETTY

BUBLITZ
BETTY

LAGAN
CHRISTINE

452+50

467+50

END CONSTRUCTION
STA. 456+50.01

EXISTING R/W

454 456 458 460 462 464 466

STH 60

50'

50'

EXISTING R/W

36"CMP

18"CMP

HO

T

G

BEGIN I.D. 2310-14-70
STA. 456+50.01

MATCHLINE

MATCHLINE

SEPV

SEPTIC

SEPV

SEPC

W

GOLLNICK
JAMES R
JAMIE D

CTH 'Y'/GRANVILLE RD

PIERCE

GIERACH

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
- (A) REMOVING SURFACE DRAINS
- xxxx SAWING ASPHALT
- xxxx SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 35	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021029

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

LAGAN
CHRISTINE

LAGAN
CHRISTINE

LAGAN
CHRISTINE

WURTZ
ROBERT D
DIANE M

SEPTIC

SEPV

467+50

482+50

BEGIN CONSTRUCTION
STA. 473+92.67

EXISTING R/W

468 470 STH 60 472 474 476 478 480 STH 60 482

50'

50'

EXISTING R/W

END I.D. 2310-14-70
STA. 473+92.67

EXISTING CULVERT TO REMAIN

MATCHLINE

MATCHLINE

SLAB

SLAB

GIERACH
ROBERT J

RACH
RT J

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
- (A) REMOVING SURFACE DRAINS
- xxxx SAWING ASPHALT
- xxxx SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 36	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021030

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

SEPTIC

SEPV

MILLER
CRAIG L
MICHELE R

FISK
JUSTIN
SARAH M

ROSENBERG
TYLER T
TONYA R

DEUTMEYER
MARY C

482+50

497+50

WETLAND

EXISTING R/W

50'

50'

82

484

486

488

STH 60

490

492

494

496

EXISTING R/W

MATCHLINE

WETLAND

WETLAND

ESSER
PATRICK J

OLSON
DAVID W

SANNES
RENEE

MAREN
DANIEL B
JANETTE R

LIZBETH LN

MATCHLINE

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
- (A) REMOVING SURFACE DRAINS
- SAWING ASPHALT
- SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP — REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS — REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 37	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021031

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

EIFLER REVOCABLE TRUST
NORMAN H

SETHI
MOHAMMED K

WETLAND

497+50

512+50

HO

HO

EXISTING R/W

STH 60

498

500

502

504

506

508

510

512

50'

50'

60'

EXISTING R/W

EXISTING CULVERT TO REMAIN

I SIGN

MATCHLINE

MATCHLINE

SEPV
SEPC
SEPTIC

WIMMER TRUST

WALDHART
JONATHAN J

RAMMEL
LILLIAN J
HAL G

HAISCHER JR
THEODORE E
PATRICIA A

ROSE
DAVID L
MARY M

SCHMIT
MATTHEW M
INGRID E

WALL

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
- (A) REMOVING SURFACE DRAINS

- xxxx SAWING ASPHALT
- xxxx SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 38	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021032

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

MOON
RALPH E
CAROL R

HAHN
MELODY F

DONDLINGER
MICHAEL G

TEALCO GROUP

RUINS

RUINS

RUINS

WETLAND

WETLAND

33'

33'

512+50

527+50

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

18 SS

18 SS

18 CP

A

50'

50'

514

516

518

520

522

524

526

STH 60

STH 60

100'

100'

60'

60'

30 CP

MATCHLINE

MATCHLINE

HORNS CORNERS RD

HIRST
DAVID J
JANE

HURD
RICHARD B
GAIL L

SEPV

SEPTIC

SEPC

SIGN

HO

W

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
- (A) REMOVING SURFACE DRAINS
- XXXX SAWING ASPHALT
- XXXX SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 39	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021033

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

TEALCO GROUP

OSTERMANN
KENNETH G

JOHNSONS NURSERY LLC

WALLS

WETLAND

WETLAND

WETLAND

FLAG

SIGN

527+50

542+50

MATCHLINE

MATCHLINE

EXISTING R/W

EXISTING R/W

60'

60'

60'

STH 60

528

530

532

534

536

538

540

542

XXXX

XXXX

POOR

PROCHNOW
DENNIS

LEGEND

- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
- (A) REMOVING SURFACE DRAINS

- XXXX SAWING ASPHALT
- XXXX SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 40	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021034

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

NINMARK LLC

NINMARK LLC

FCC PARTNERSHIP

END PROJECT 2310-17-00
STA. 555+40.00

542+50

WETLAND

EXISTING CULVERT TO REMAIN

SIGN

EXISTING R/W

60'

55'

544 546 548 550 552 554 556

STH 60

STH 60

CMP

3.5'

xxxx xxxx

60'

60'

EXISTING R/W

MATCHLINE

WETLAND

PROCHNOW
RUSSEL

PROCHNOW
MARVIN

LEGEND

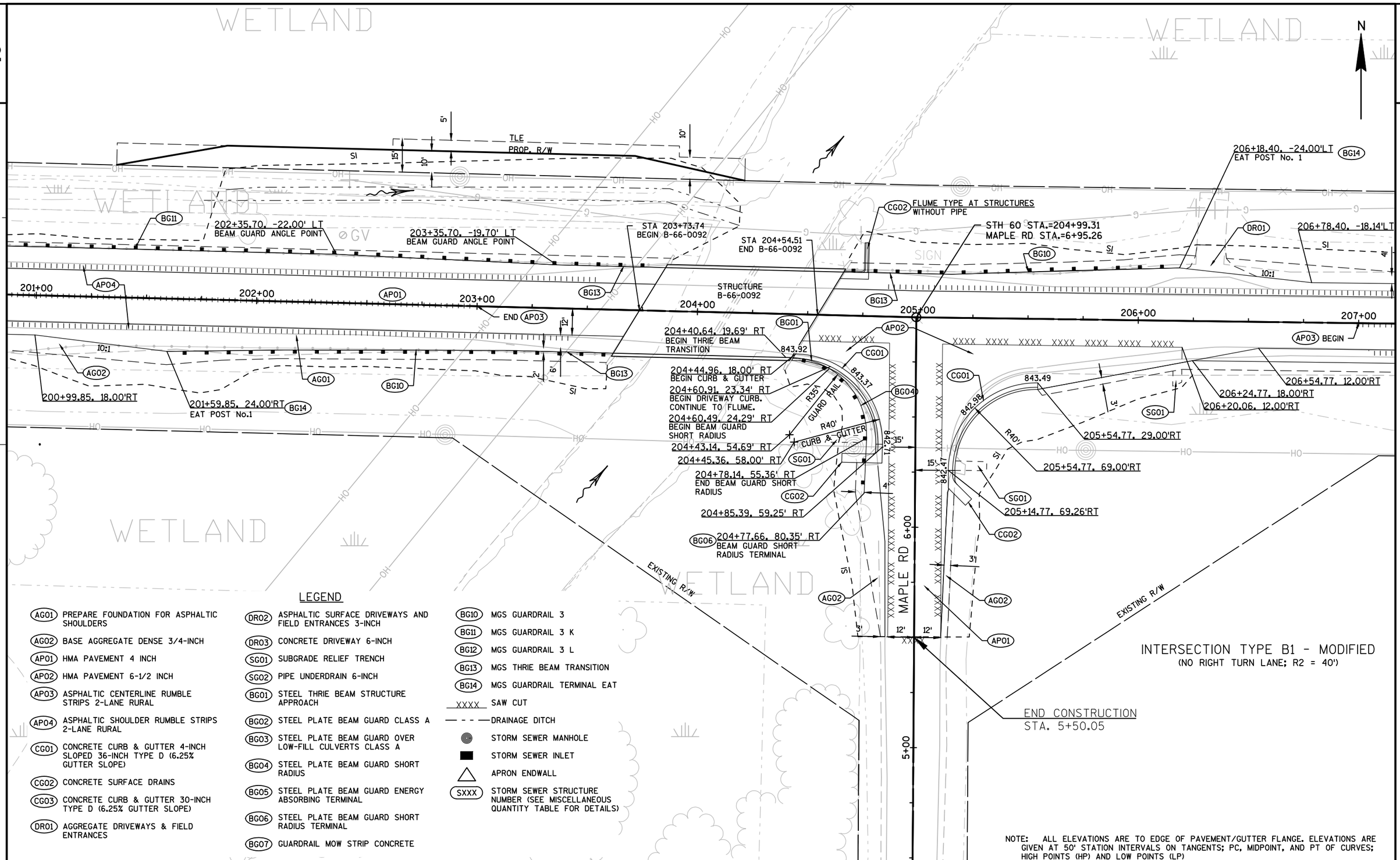
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE (PAID UNDER BID ITEM)
- REMOVING ASPHALTIC SURFACE (PAID AS EXCAVATION COMMON)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- CLEARING & GRUBBING (STA)
- REMOVING DRIVEWAY ACCESS (PAID AS EXCAVATION COMMON)
- REMOVING CONCRETE DRIVEWAYS (PAID AS REMOVING CONCRETE SIDEWALK)
- (A) REMOVING SURFACE DRAINS
- xxxx SAWING ASPHALT
- xxxx SAWING CONCRETE
- REMOVING CURB & GUTTER
- 18 CP REMOVING SMALL CULVERT PIPES (SIZE)
- X CLEARING & GRUBBING (I.D.)
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- 18 SS REMOVING STORM SEWER PIPES (SIZE)
- REMOVING INLETS

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	REMOVAL PLAN	SCALE, FEET 0 50 100	SHEET 41	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021011-RM.DWG
LAYOUT NAME - 021011-RM - 021035

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42



LEGEND

- (AG01) PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- (AG02) BASE AGGREGATE DENSE 3/4-INCH
- (AP01) HMA PAVEMENT 4 INCH
- (AP02) HMA PAVEMENT 6-1/2 INCH
- (AP03) ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- (AP04) ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- (CG01) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D (6.25% GUTTER SLOPE)
- (CG02) CONCRETE SURFACE DRAINS
- (CG03) CONCRETE CURB & GUTTER 30-INCH TYPE D (6.25% GUTTER SLOPE)
- (DR01) AGGREGATE DRIVEWAYS & FIELD ENTRANCES
- (DR02) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- (DR03) CONCRETE DRIVEWAY 6-INCH
- (SG01) SUBGRADE RELIEF TRENCH
- (SG02) PIPE UNDERDRAIN 6-INCH
- (BG01) STEEL THRIE BEAM STRUCTURE APPROACH
- (BG02) STEEL PLATE BEAM GUARD CLASS A
- (BG03) STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- (BG04) STEEL PLATE BEAM GUARD SHORT RADIUS
- (BG05) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG06) STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- (BG07) GUARDRAIL MOW STRIP CONCRETE
- (BG10) MGS GUARDRAIL 3
- (BG11) MGS GUARDRAIL 3 K
- (BG12) MGS GUARDRAIL 3 L
- (BG13) MGS THRIE BEAM TRANSITION
- (BG14) MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL
- (SXXX) STORM SEWER STRUCTURE NUMBER (SEE MISCELLANEOUS QUANTITY TABLE FOR DETAILS)

INTERSECTION TYPE B1 - MODIFIED

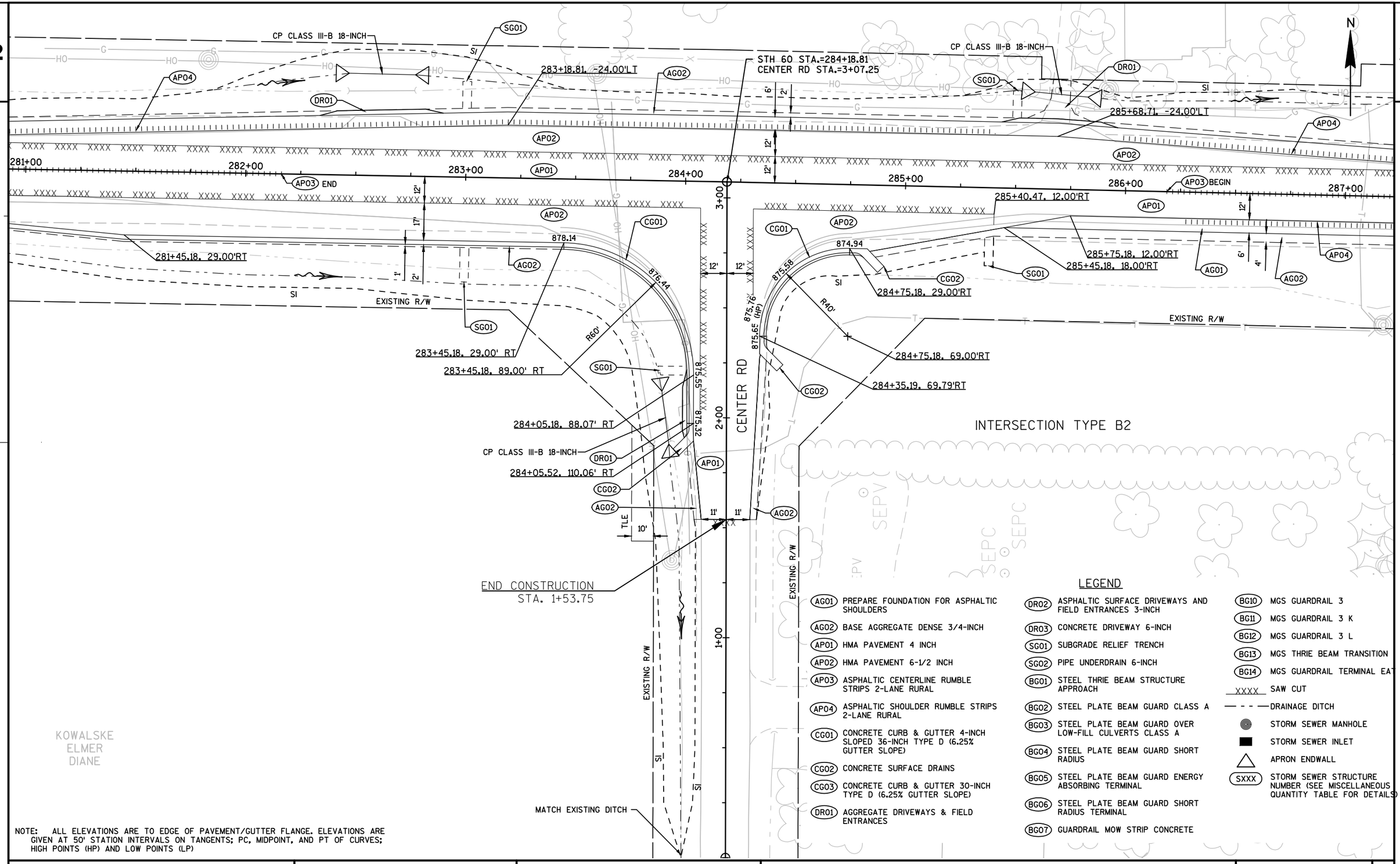
(NO RIGHT TURN LANE; R2 = 40')

END CONSTRUCTION
STA. 5+50.05

NOTE: ALL ELEVATIONS ARE TO EDGE OF PAVEMENT/GUTTER FLANGE. ELEVATIONS ARE GIVEN AT 50' STATION INTERVALS ON TANGENTS; PC, MIDPOINT, AND PT OF CURVES; HIGH POINTS (HP) AND LOW POINTS (LP)

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	INTERSECTION & DRAINAGE DETAILS- MAPLE ROAD	SHEET 42	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021101-ID - 021101
PLOT DATE : 4/26/2018 3:21 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:40_XREF



LEGEND

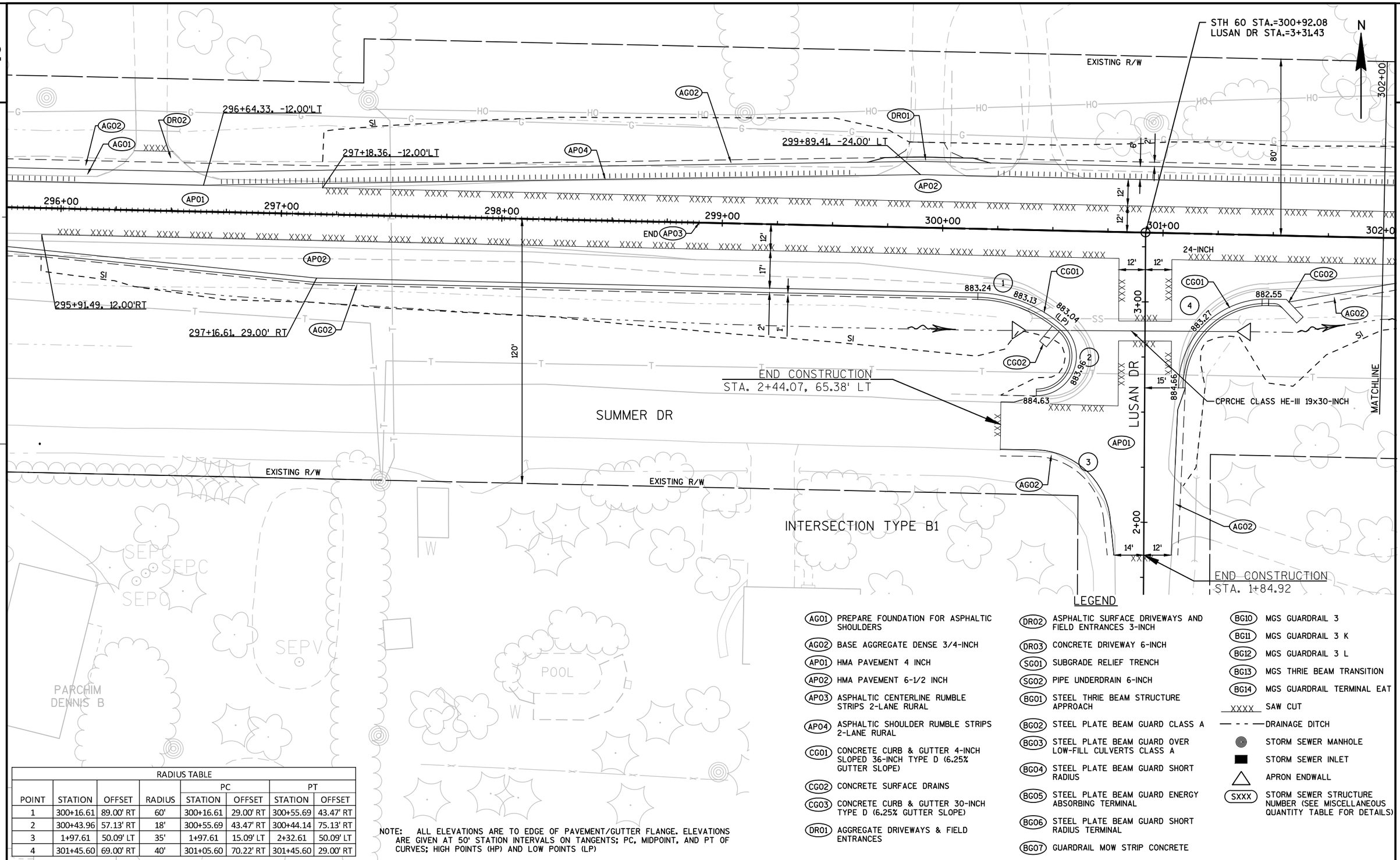
AG01	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
AG02	BASE AGGREGATE DENSE 3/4-INCH
AP01	HMA PAVEMENT 4 INCH
AP02	HMA PAVEMENT 6-1/2 INCH
AP03	ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
AP04	ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
CG01	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D (6.25% GUTTER SLOPE)
CG02	CONCRETE SURFACE DRAINS
CG03	CONCRETE CURB & GUTTER 30-INCH TYPE D (6.25% GUTTER SLOPE)
DR01	AGGREGATE DRIVEWAYS & FIELD ENTRANCES
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
DR03	CONCRETE DRIVEWAY 6-INCH
SG01	SUBGRADE RELIEF TRENCH
SG02	PIPE UNDERDRAIN 6-INCH
BG01	STEEL THRIE BEAM STRUCTURE APPROACH
BG02	STEEL PLATE BEAM GUARD CLASS A
BG03	STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
BG04	STEEL PLATE BEAM GUARD SHORT RADIUS
BG05	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
BG06	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
BG07	GUARDRAIL MOW STRIP CONCRETE
BG10	MGS GUARDRAIL 3
BG11	MGS GUARDRAIL 3 K
BG12	MGS GUARDRAIL 3 L
BG13	MGS THRIE BEAM TRANSITION
BG14	MGS GUARDRAIL TERMINAL EAT
XXXX	SAW CUT
- - -	DRAINAGE DITCH
	STORM SEWER MANHOLE
	STORM SEWER INLET
	APRON ENDWALL
SXXX	STORM SEWER STRUCTURE NUMBER (SEE MISCELLANEOUS QUANTITY TABLE FOR DETAILS)

NOTE: ALL ELEVATIONS ARE TO EDGE OF PAVEMENT/GUTTER FLANGE. ELEVATIONS ARE GIVEN AT 50' STATION INTERVALS ON TANGENTS; PC, MIDPOINT, AND PT OF CURVES; HIGH POINTS (HP) AND LOW POINTS (LP)

KOWALSKE
ELMER
DIANE

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	INTERSECTION & DRAINAGE DETAILS - CENTER ROAD	SHEET 43	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021101-ID - 021102
PLOT DATE : 5/1/2018 9:35 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42



RADIUS TABLE							
				PC		PT	
POINT	STATION	OFFSET	RADIUS	STATION	OFFSET	STATION	OFFSET
1	300+16.61	89.00' RT	60'	300+16.61	29.00' RT	300+55.69	43.47' RT
2	300+43.96	57.13' RT	18'	300+55.69	43.47' RT	300+44.14	75.13' RT
3	1+97.61	50.09' LT	35'	1+97.61	15.09' LT	2+32.61	50.09' LT
4	301+45.60	69.00' RT	40'	301+05.60	70.22' RT	301+45.60	29.00' RT

NOTE: ALL ELEVATIONS ARE TO EDGE OF PAVEMENT/GUTTER FLANGE. ELEVATIONS ARE GIVEN AT 50' STATION INTERVALS ON TANGENTS; PC, MIDPOINT, AND PT OF CURVES; HIGH POINTS (HP) AND LOW POINTS (LP)

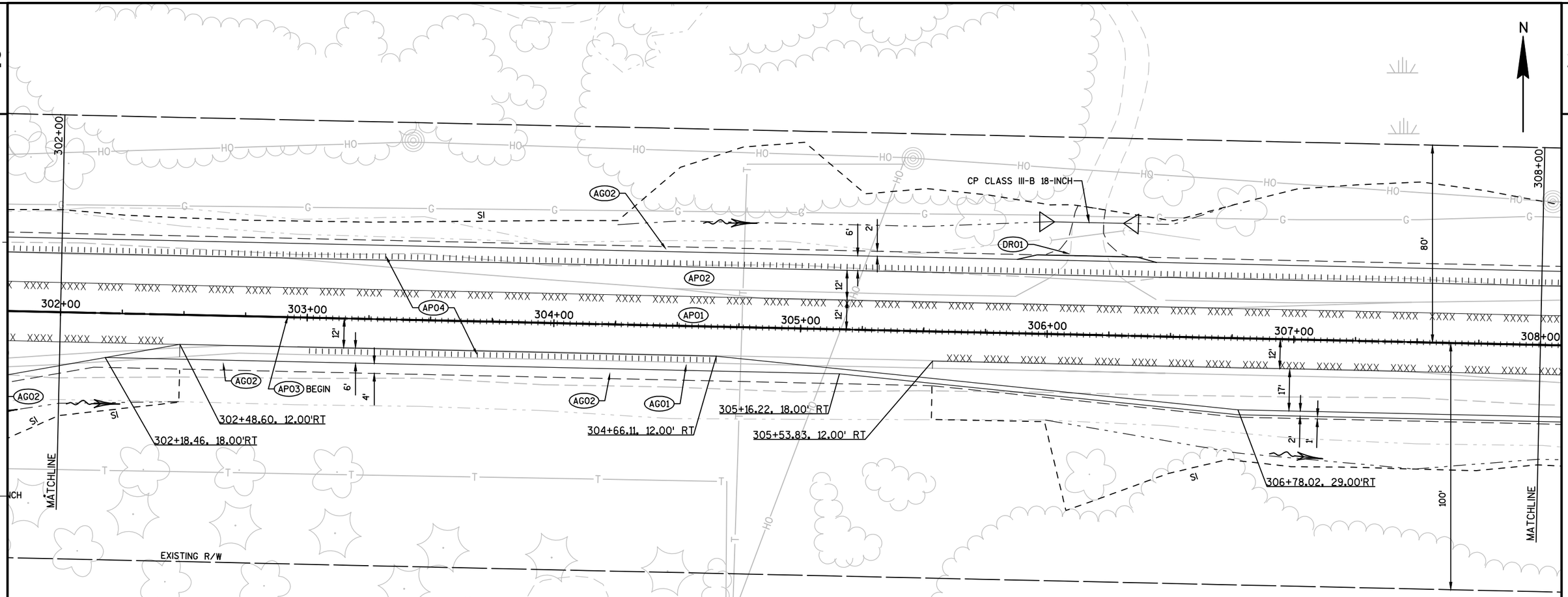
LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D (6.25% GUTTER SLOPE)
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D (6.25% GUTTER SLOPE)
- DR01 AGGREGATE DRIVEWAYS & FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BG04 STEEL PLATE BEAM GUARD SHORT RADIUS
- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL
- SXXX STORM SEWER STRUCTURE NUMBER (SEE MISCELLANEOUS QUANTITY TABLE FOR DETAILS)

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	INTERSECTION & DRAINAGE DETAILS- LUSAN DRIVE	SHEET 44	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021101-ID - 021103
PLOT DATE : 4/26/2018 3:21 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

2



LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D (6.25% GUTTER SLOPE)
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D (6.25% GUTTER SLOPE)
- DR01 AGGREGATE DRIVEWAYS & FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BG04 STEEL PLATE BEAM GUARD SHORT RADIUS
- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL
- SXXX STORM SEWER STRUCTURE NUMBER (SEE MISCELLANEOUS QUANTITY TABLE FOR DETAILS)

NOTE: ALL ELEVATIONS ARE TO EDGE OF PAVEMENT/GUTTER FLANGE. ELEVATIONS ARE GIVEN AT 50' STATION INTERVALS ON TANGENTS; PC, MIDPOINT, AND PT OF CURVES; HIGH POINTS (HP) AND LOW POINTS (LP)

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	INTERSECTION & DRAINAGE DETAILS - LUSAN ROAD	SHEET 45	E

2

N

STH 60 STA.=310+51.42
CHURCH RD STA.=3+30.02

DR01

CP CLASS III-B 18-INCH

AG02

AP02

AP01

AP03 END

CG01

CG02

863.29

861.44 (LP)

861.33

861.62

860.67

859.73

309+78.02, 29.00' RT

309+78.02, 89.00' RT

310+38.00, 87.43' RT

311+07.37, 29.00'RT

311+07.37, 69.00'RT

310+67.37, 69.19'RT

311+72.20, 12.00'RT

BEGIN AP03

312+07.57, 12.00'RT

311+77.01, 18.00'RT

312+01.26, -24.00'LT

313+82.47, -12.00' LT

314+18.28, -12.00' LT

CPRC CLASS III 18-INCH

R60'

R60'

SI

EXISTING R/W

PROPOSED RW

CHURCH RD

MATCHLINE

308+00

309+00

310+00

311+00

312+00

313+00

314+00

1+00

2+00

3+00

80'

100'

60'

50'

12'

17'

6'

2'

1'

11'

XXXX SAW CUT

OH

END CONSTRUCTION
STA. 1+68.73

INTERSECTION TYPE B1

NOTE: ALL ELEVATIONS ARE TO EDGE OF PAVEMENT/GUTTER FLANGE. ELEVATIONS ARE GIVEN AT 50' STATION INTERVALS ON TANGENTS; PC, MIDPOINT, AND PT OF CURVES; HIGH POINTS (HP) AND LOW POINTS (LP)

LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D (6.25% GUTTER SLOPE)
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D (6.25% GUTTER SLOPE)
- DR01 AGGREGATE DRIVEWAYS & FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BG04 STEEL PLATE BEAM GUARD SHORT RADIUS
- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL
- SXXX STORM SEWER STRUCTURE NUMBER (SEE MISCELLANEOUS QUANTITY TABLE FOR DETAILS)

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	INTERSECTION & DRAINAGE DETAILS - CHURCH ROAD	SHEET 46	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021101-ID - 021105

PLOT DATE : 4/26/2018 3:22 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

N

CP CLASS III-B 18-INCH

EXISTING R/W

STH 60 STA.=353+20.95
BRIARWOOD DR STA.=3+33.34

348+95.95, -12.00'LT

352+20.95, -24.00'LT

354+70.95, -24.00' LT

351+00.02, -12.00'LT

349+00 350+00 351+00 352+00 353+00 354+00 355+00

AP03 END

349+98.16, 29.00'RT

354+42.92, 12.00'RT

354+47.62, 18.00' RT

354+77.62, 12.00' RT

353+77.62, 29.00'RT

353+77.62, 69.00'RT

352+48.16, 29.00' RT

352+48.16, 89.00' RT

353+08.13, 87.22' RT

353+37.64, 70.19'RT

870.48 869.18 870.52 871.72 872.30

871.5 CPRC CLASS III 18-INCH

R60' R40'

SI

INTERSECTION TYPE B2

BRIARWOOD DR

MATCHLINE

APPROXIMATE TLE

TLE

FLAG

TRUST
ZEN FAMILY

DRENSKI
DAVID R
MARY M

END CONSTRUCTION
STA. 1+94.44

EXISTING R/W

3+00 2+00 1+00

LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D (6.25% GUTTER SLOPE)
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D (6.25% GUTTER SLOPE)
- DR01 AGGREGATE DRIVEWAYS & FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BG04 STEEL PLATE BEAM GUARD SHORT RADIUS
- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL
- SXXX STORM SEWER STRUCTURE NUMBER (SEE MISCELLANEOUS QUANTITY TABLE FOR DETAILS)

NOTE: ALL ELEVATIONS ARE TO EDGE OF PAVEMENT/GUTTER FLANGE. ELEVATIONS ARE GIVEN AT 50' STATION INTERVALS ON TANGENTS; PC, MIDPOINT, AND PT OF CURVES; HIGH POINTS (HP) AND LOW POINTS (LP)

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	INTERSECTION & DRAINAGE DETAILS - BRIARWOOD DRIVE	SHEET 47	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021101-ID - 021106
PLOT DATE : 4/26/2018 3:23 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:40_XREF

2

N

FOOTBRIDGE

RAMP

355+00

DR01

CP CLASS III-B 18-INCH

356+52.62, -12.00'LT

356+87.95, -12.00'LT

6'

4'

EXISTING R/W

DR01

AG02

AG01

AP04

60'

SIGN

361+00

355+00

356+00

357+00

12'

358+00

359+00

AP01

360+00

361+00

AP03 BEGIN

12'

4'

6'

AP04

357+10.10, 12.00' RT

357+60.02, 18.00' RT

357+97.47, 12.00' RT

AP02

80'

60'

AG02

359+22.60, 29.00' RT

EXISTING R/W

MATCHLINE

SG01

MATCHLINE

SEPV

SEPTIC

SEPV

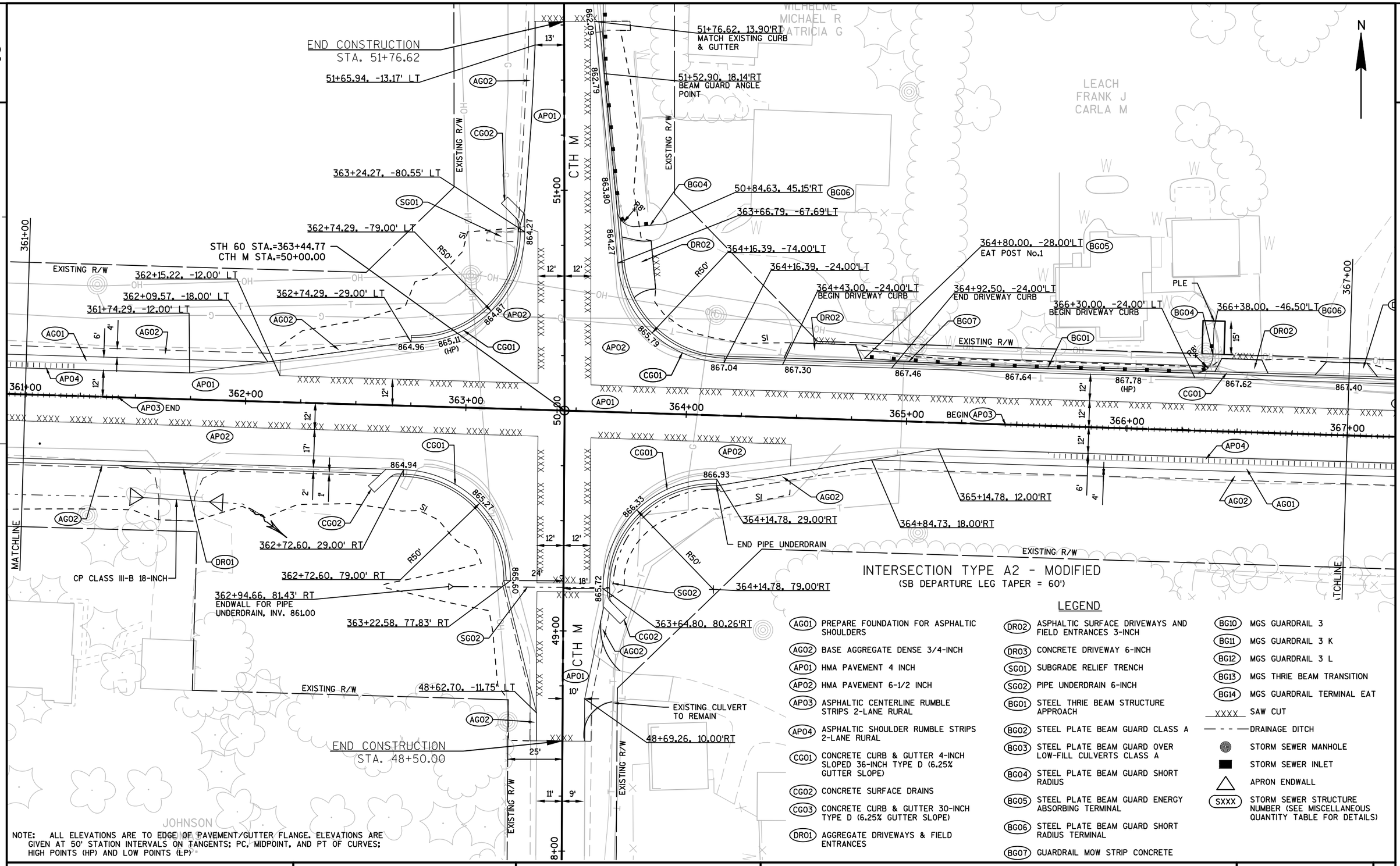
WETLAND

NOTE: ALL ELEVATIONS ARE TO EDGE OF PAVEMENT/GUTTER FLANGE. ELEVATIONS ARE GIVEN AT 50' STATION INTERVALS ON TANGENTS; PC, MIDPOINT, AND PT OF CURVES; HIGH POINTS (HP) AND LOW POINTS (LP)

LEGEND

- (AG01) PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- (AG02) BASE AGGREGATE DENSE 3/4-INCH
- (AP01) HMA PAVEMENT 4 INCH
- (AP02) HMA PAVEMENT 6-1/2 INCH
- (AP03) ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- (AP04) ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- (CG01) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D (6.25% GUTTER SLOPE)
- (CG02) CONCRETE SURFACE DRAINS
- (CG03) CONCRETE CURB & GUTTER 30-INCH TYPE D (6.25% GUTTER SLOPE)
- (DR01) AGGREGATE DRIVEWAYS & FIELD ENTRANCES
- (DR02) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- (DR03) CONCRETE DRIVEWAY 6-INCH
- (SG01) SUBGRADE RELIEF TRENCH
- (SG02) PIPE UNDERDRAIN 6-INCH
- (BG01) STEEL THRIE BEAM STRUCTURE APPROACH
- (BG02) STEEL PLATE BEAM GUARD CLASS A
- (BG03) STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- (BG04) STEEL PLATE BEAM GUARD SHORT RADIUS
- (BG05) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG06) STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- (BG07) GUARDRAIL MOW STRIP CONCRETE
- (BG10) MGS GUARDRAIL 3
- (BG11) MGS GUARDRAIL 3 K
- (BG12) MGS GUARDRAIL 3 L
- (BG13) MGS THRIE BEAM TRANSITION
- (BG14) MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL
- (SXXX) STORM SEWER STRUCTURE NUMBER (SEE MISCELLANEOUS QUANTITY TABLE FOR DETAILS)

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	INTERSECTION & DRAINAGE DETAILS - CTH M	SHEET 48	E

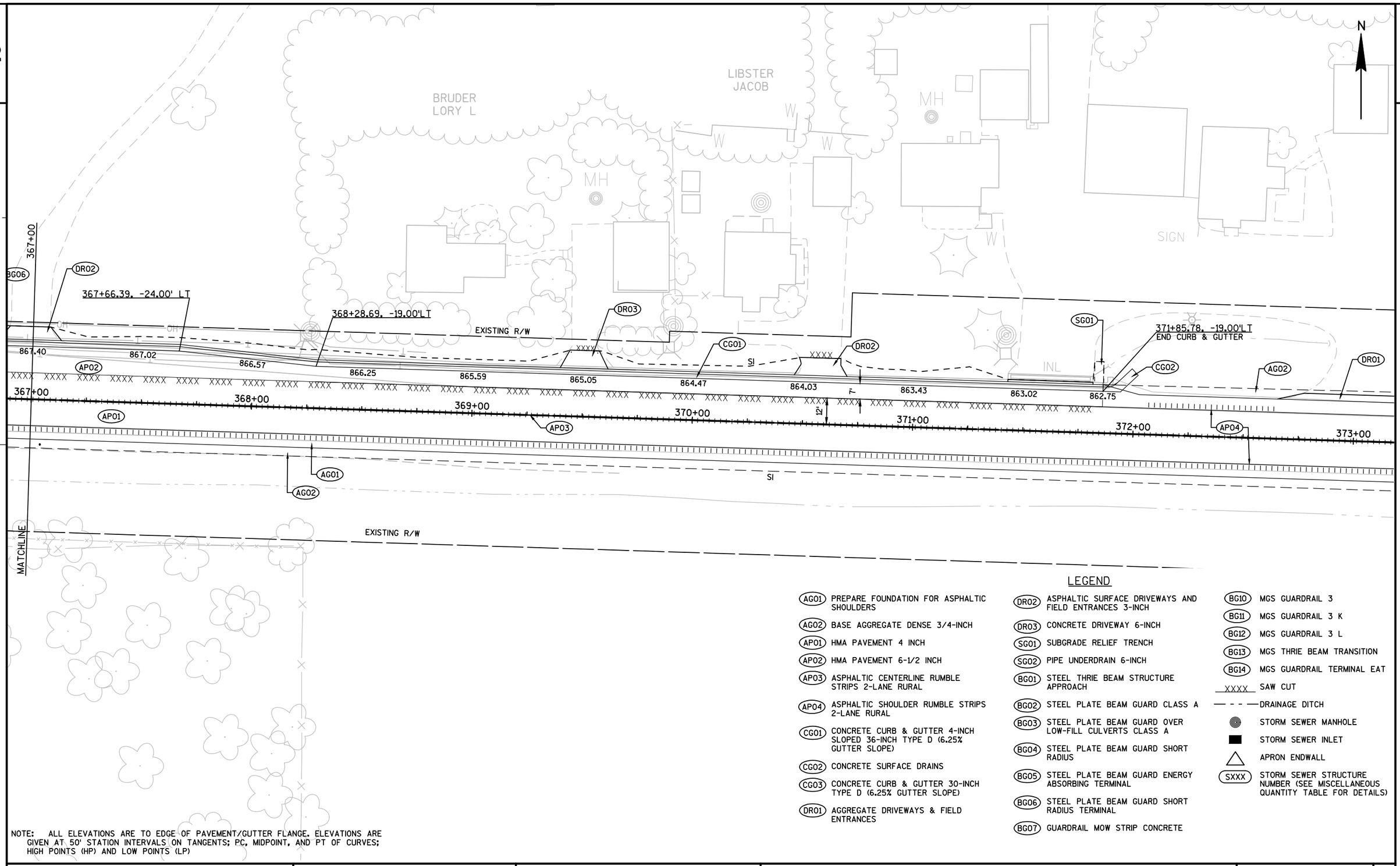


NOTE: ALL ELEVATIONS ARE TO EDGE OF PAVEMENT/GUTTER FLANGE. ELEVATIONS ARE GIVEN AT 50' STATION INTERVALS ON TANGENTS; PC, MIDPOINT, AND PT OF CURVES; HIGH POINTS (HP) AND LOW POINTS (LP).

LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D (6.25% GUTTER SLOPE)
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D (6.25% GUTTER SLOPE)
- DR01 AGGREGATE DRIVEWAYS & FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BG04 STEEL PLATE BEAM GUARD SHORT RADIUS
- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL
- SXXX STORM SEWER STRUCTURE NUMBER (SEE MISCELLANEOUS QUANTITY TABLE FOR DETAILS)

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	INTERSECTION & DRAINAGE DETAILS - CTH M	SHEET 49	E



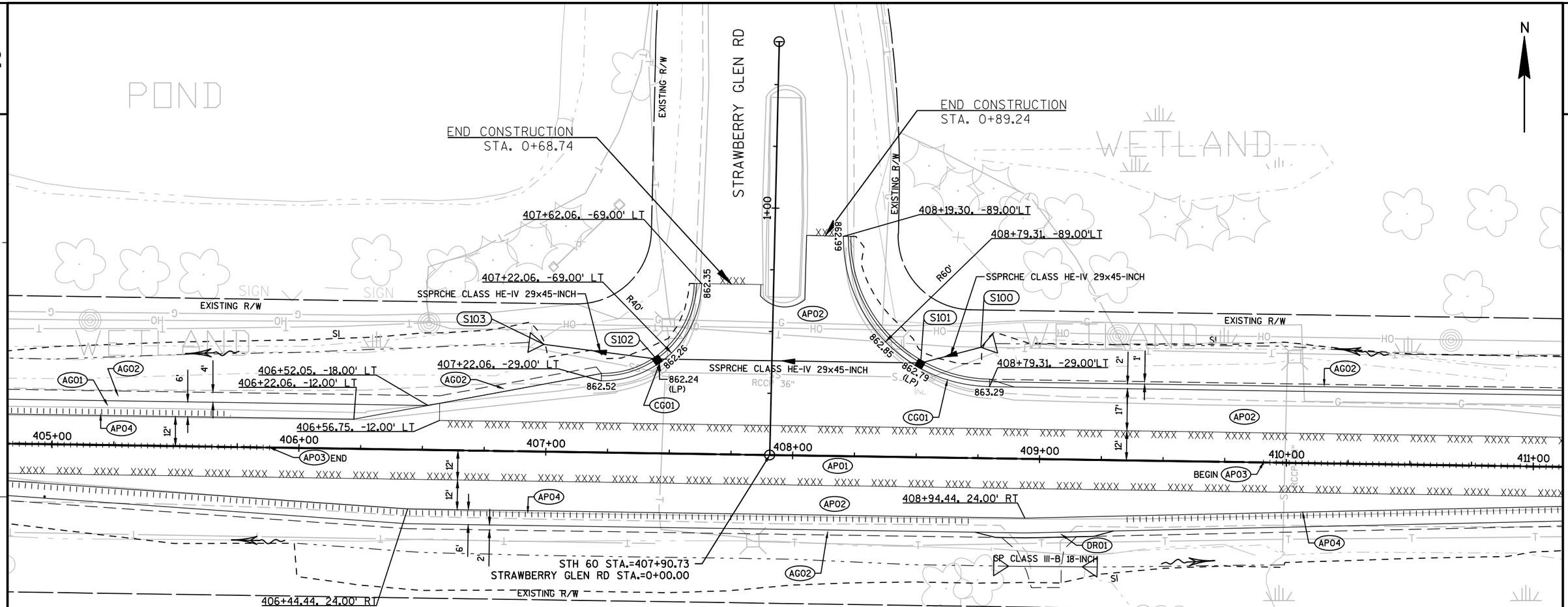
NOTE: ALL ELEVATIONS ARE TO EDGE OF PAVEMENT/GUTTER FLANGE. ELEVATIONS ARE GIVEN AT 50' STATION INTERVALS ON TANGENTS; PC, MIDPOINT, AND PT OF CURVES; HIGH POINTS (HP) AND LOW POINTS (LP)

LEGEND

- (AG01) PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- (AG02) BASE AGGREGATE DENSE 3/4-INCH
- (AP01) HMA PAVEMENT 4 INCH
- (AP02) HMA PAVEMENT 6-1/2 INCH
- (AP03) ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- (AP04) ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- (CG01) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D (6.25% GUTTER SLOPE)
- (CG02) CONCRETE SURFACE DRAINS
- (CG03) CONCRETE CURB & GUTTER 30-INCH TYPE D (6.25% GUTTER SLOPE)
- (DR01) AGGREGATE DRIVEWAYS & FIELD ENTRANCES
- (DR02) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- (DR03) CONCRETE DRIVEWAY 6-INCH
- (SG01) SUBGRADE RELIEF TRENCH
- (SG02) PIPE UNDERDRAIN 6-INCH
- (BG01) STEEL THRIE BEAM STRUCTURE APPROACH
- (BG02) STEEL PLATE BEAM GUARD CLASS A
- (BG03) STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- (BG04) STEEL PLATE BEAM GUARD SHORT RADIUS
- (BG05) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG06) STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- (BG07) GUARDRAIL MOW STRIP CONCRETE
- (BG10) MGS GUARDRAIL 3
- (BG11) MGS GUARDRAIL 3 K
- (BG12) MGS GUARDRAIL 3 L
- (BG13) MGS THRIE BEAM TRANSITION
- (BG14) MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL
- (SXXX) STORM SEWER STRUCTURE NUMBER (SEE MISCELLANEOUS QUANTITY TABLE FOR DETAILS)

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	INTERSECTION & DRAINAGE DETAILS - CTH M	SHEET 50	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021101-ID - 021109
PLOT DATE : 4/26/2018 3:24 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42



INTERSECTION TYPE B1

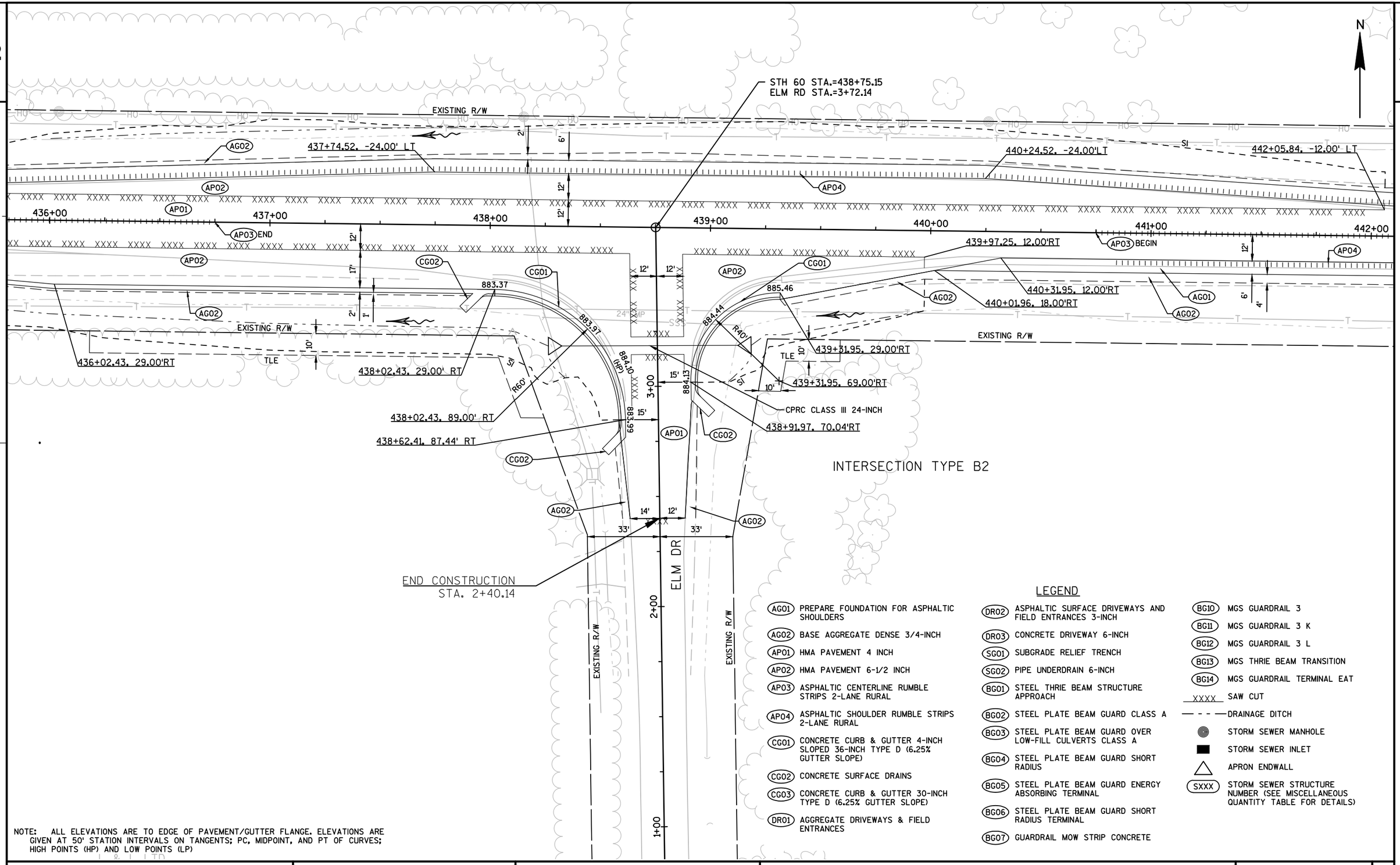
LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D (6.25% GUTTER SLOPE)
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D (6.25% GUTTER SLOPE)
- DR01 AGGREGATE DRIVEWAYS & FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BG04 STEEL PLATE BEAM GUARD SHORT RADIUS
- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL
- SXXX STORM SEWER STRUCTURE NUMBER (SEE MISCELLANEOUS QUANTITY TABLE FOR DETAILS)

NOTE: ALL ELEVATIONS ARE TO EDGE OF PAVEMENT/GUTTER FLANGE. ELEVATIONS ARE GIVEN AT 50' STATION INTERVALS ON TANGENTS; PC, MIDPOINT, AND PT OF CURVES; HIGH POINTS (HP) AND LOW POINTS (LP)

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	INTERSECTION & DRAINAGE DETAILS - STRAWBERRY GLEN ROAD	SHEET 51	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021101-ID - 021110
PLOT DATE : 4/26/2018 3:24 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42



NOTE: ALL ELEVATIONS ARE TO EDGE OF PAVEMENT/GUTTER FLANGE. ELEVATIONS ARE GIVEN AT 50' STATION INTERVALS ON TANGENTS; PC, MIDPOINT, AND PT OF CURVES; HIGH POINTS (HP) AND LOW POINTS (LP)

LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D (6.25% GUTTER SLOPE)
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D (6.25% GUTTER SLOPE)
- DR01 AGGREGATE DRIVEWAYS & FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BG04 STEEL PLATE BEAM GUARD SHORT RADIUS
- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL
- SXXX STORM SEWER STRUCTURE NUMBER (SEE MISCELLANEOUS QUANTITY TABLE FOR DETAILS)

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	INTERSECTION & DRAINAGE DETAILS - ELM DRIVE	SHEET 52	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021101-ID - 021111
PLOT DATE : 4/26/2018 3:24 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

2

N

LAND

STH 60 STA.=494+88.06
LIZBETH LN STA.=3+71.81

EXISTING R/W

SI

493+87.75, -24.00' LT

AG02

AP02

AP01

492+00

493+00

494+00

495+00

496+00

497+00

AP03 END

BEGIN AP03

AP04

496+37.75, -24.00'LT

6'

2'

12'

12'

12'

17'

2'

1'

EXISTING CULVERT TO REMAIN

12'

12'

CG01

877.24

876.88

876.72

876.93

876.70
(LP)

876.73
(LP)

876.79

876.18
(LP)

492+14.21, 29.00'RT

494+14.21, 29.00' RT

496+09.25, 12.00'RT

496+43.95, 12.00'RT

496+13.95, 18.00'RT

AG01

AG02

4'

6'

495+43.96, 29.00'RT

EXISTING R/W

SI

R60'

R40'

15'

15'

3+00

CG02

494+14.21, 89.00' RT

495+43.96, 69.00'RT

495+03.96, 69.52'RT

INTERSECTION TYPE B2

494+74.20, 88.22' RT

AP01

AG02

AP02

33'

33'

12'

11'

MATCH
EXISTING
DITCHLINE

END CONSTRUCTION
STA. 2+26.86

2+00

LIZBETH LN

EXISTING R/W

EXISTING R/W

WETLAND

WETLAND

SANNES
RENEE

NOTE: ALL ELEVATIONS ARE TO EDGE OF PAVEMENT/GUTTER FLANGE. ELEVATIONS ARE GIVEN AT 50' STATION INTERVALS ON TANGENTS; PC, MIDPOINT, AND PT OF CURVES; HIGH POINTS (HP) AND LOW POINTS (LP)

LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D (6.25% GUTTER SLOPE)
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D (6.25% GUTTER SLOPE)
- DR01 AGGREGATE DRIVEWAYS & FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BG04 STEEL PLATE BEAM GUARD SHORT RADIUS
- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL
- SXXX STORM SEWER STRUCTURE NUMBER (SEE MISCELLANEOUS QUANTITY TABLE FOR DETAILS)

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	INTERSECTION & DRAINAGE DETAILS - LIZBETH LANE	SHEET 53	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021101-ID - 021112

PLOT DATE : 4/26/2018 3:25 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

END CONSTRUCTION
STA. 5+43.60

S201
5+43.60, 10.66'RT
4+96.61, 13.56'RT
AP01
AP02
CG03
CPRC CLASS III 12-INCH
5+00
517+98.40, -88.38'LT
CPRC CLASS III 18-INCH
BEGIN PIPE UNDERDRAIN
END MILL & OVERLAY
STA. 4+72.89
AP02
SG02
S202
EXISTING R/W
4+52.54, -15.00' LT
AP01
12'
518+58.46, -89.00'LT
517+68.40, -68.89' LT
CPRC CLASS III 18-INCH
INTERSECTION TYPE B1
517+28.40, -69.00' LT
S203
875.14
15'
R40'
875.21 (HP)
STH 60 STA.=517+83.21
HORNS CORNERS RD STA.=3+73.70
S202A
517+28.40, -29.00' LT
SG01
SI
S204
875.13
875.51
518+58.46, -29.00'LT
516+63.70, -18.00' LT
AG02
AG01
516+28.41, -12.00' LT
874.96
876.16
AP04
6"
4"
SI
CG01
CG02
AP02
4+00
517+08.27, -12.00' LT
514+00
515+00
516+00
517+00
518+00
519+00
AP01
AP03 END
12'
12'
AP01
CG01
CG01
875.99
AP02
AG02
519+02.96, 18.00' RT
874.77
519+38.25, 12.00' RT
CG02
875.25
514+08.27, 29.00' RT
17'
2'
1'
AG02
SG01
517+08.27, 29.00' RT
CPRCHE CLASS HE-III 24x38-INCH
518+38.25, 29.00'RT
R40'
SI
SI
15'
874.85
518+38.25, 69.00'RT
R60'
3+00
874.74
15'
SG01
517+98.25, 69.05'RT
517+08.27, 89.00' RT
CG02
EXISTING R/W
517+68.27, 88.95' RT
AP01
CG02
15'
12'
AG02
AG02
WETLAND
EXISTING R/W
HORNS CORNERS RD
END CONSTRUCTION
STA. 2+48.16
EXISTING R/W
EXISTING R/W
2+00

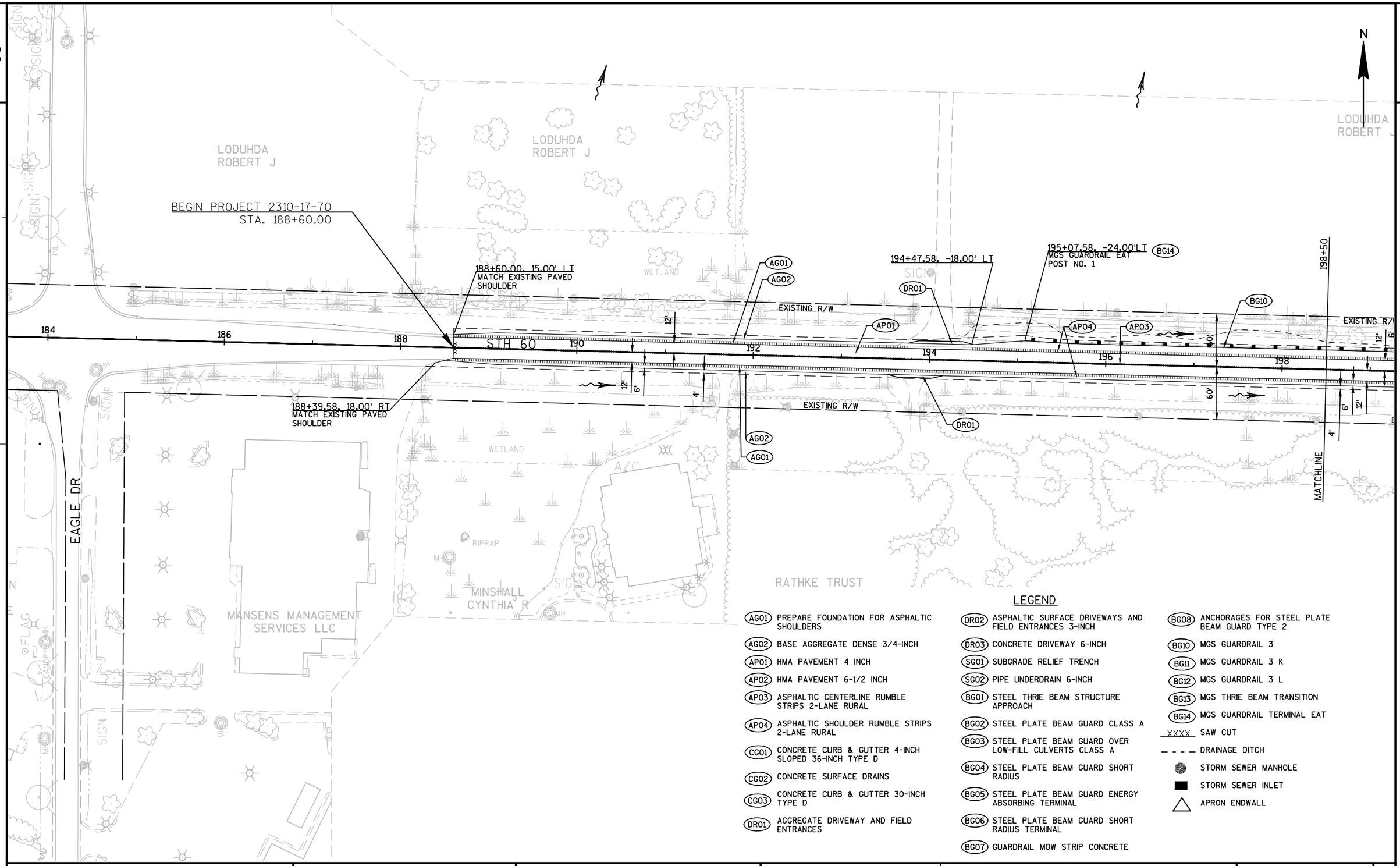
LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D (6.25% GUTTER SLOPE)
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D (6.25% GUTTER SLOPE)
- DR01 AGGREGATE DRIVEWAYS & FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BG04 STEEL PLATE BEAM GUARD SHORT RADIUS
- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL
- SXXX STORM SEWER STRUCTURE NUMBER (SEE MISCELLANEOUS QUANTITY TABLE FOR DETAILS)

NOTE: ALL ELEVATIONS ARE TO EDGE OF PAVEMENT/GUTTER FLANGE. ELEVATIONS ARE GIVEN AT 50' STATION INTERVALS ON TANGENTS; PC, MIDPOINT, AND PT OF CURVES; HIGH POINTS (HP) AND LOW POINTS (LP)

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	INTERSECTION & DRAINAGE DETAILS - HORNS CORNERS ROAD	SHEET 54	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021101-ID - 021113
PLOT DATE : 4/26/2018 3:25 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

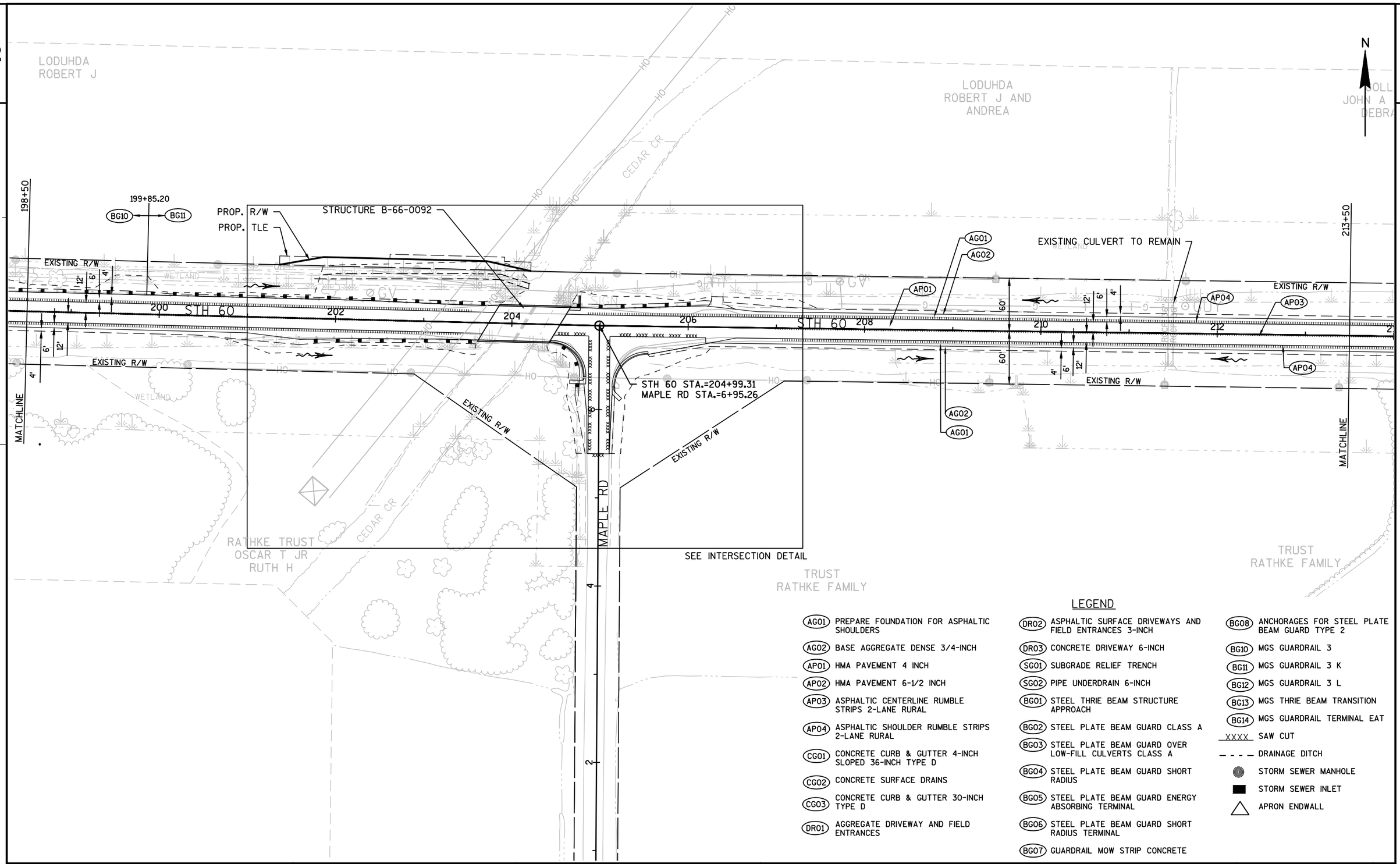


LEGEND

AG01	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS	DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH	BG08	ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
AG02	BASE AGGREGATE DENSE 3/4-INCH	DR03	CONCRETE DRIVEWAY 6-INCH	BG10	MGS GUARDRAIL 3
AP01	HMA PAVEMENT 4 INCH	SG01	SUBGRADE RELIEF TRENCH	BG11	MGS GUARDRAIL 3 K
AP02	HMA PAVEMENT 6-1/2 INCH	SG02	PIPE UNDERDRAIN 6-INCH	BG12	MGS GUARDRAIL 3 L
AP03	ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL	BG01	STEEL THRIE BEAM STRUCTURE APPROACH	BG13	MGS THRIE BEAM TRANSITION
AP04	ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL	BG02	STEEL PLATE BEAM GUARD CLASS A	BG14	MGS GUARDRAIL TERMINAL EAT
CG01	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	BG03	STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A	XXXX	SAW CUT
CG02	CONCRETE SURFACE DRAINS	BG04	STEEL PLATE BEAM GUARD SHORT RADIUS		DRAINAGE DITCH
CG03	CONCRETE CURB & GUTTER 30-INCH TYPE D	BG05	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL		STORM SEWER MANHOLE
DR01	AGGREGATE DRIVEWAY AND FIELD ENTRANCES	BG06	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL		STORM SEWER INLET
		BG07	GUARDRAIL MOW STRIP CONCRETE		APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 55	E

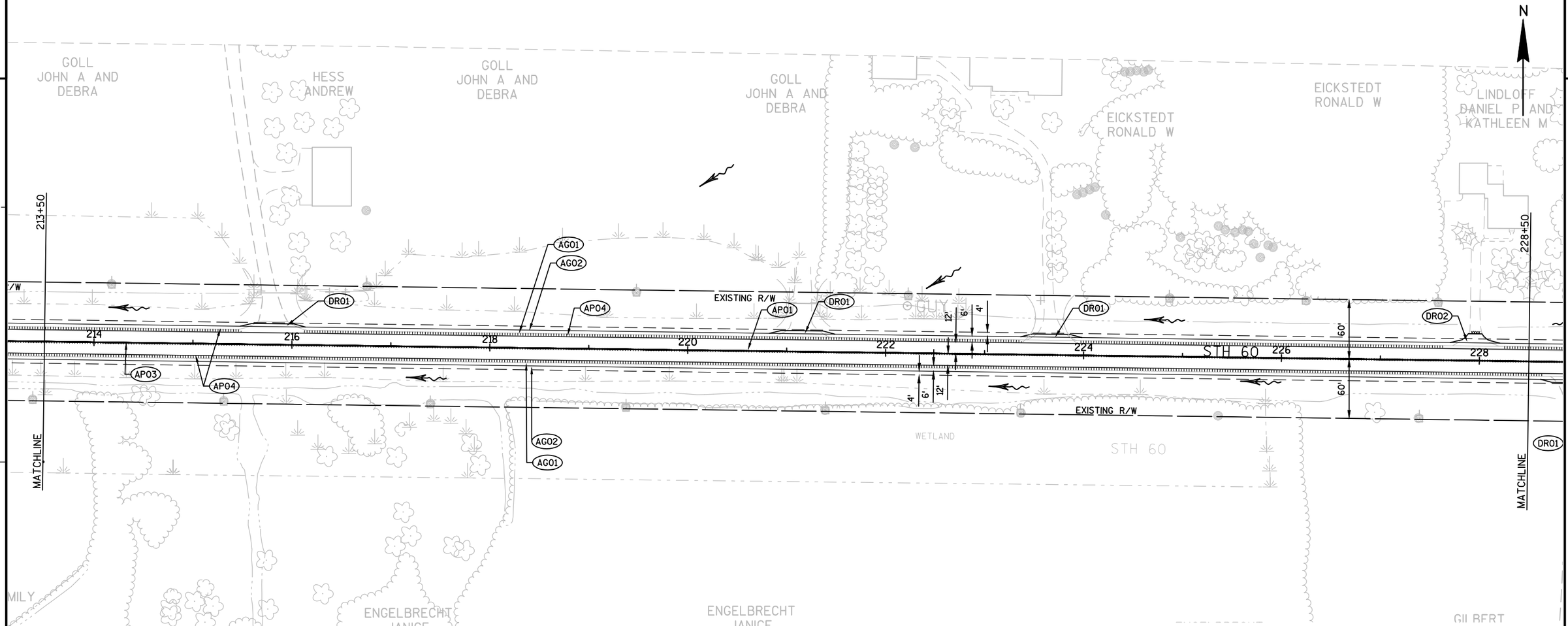
FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021201-PD - 021201
PLOT DATE : 4/26/2018 3:30 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42



LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D
- DR01 AGGREGATE DRIVEWAY AND FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BG04 STEEL PLATE BEAM GUARD SHORT RADIUS
- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG08 ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 56	E

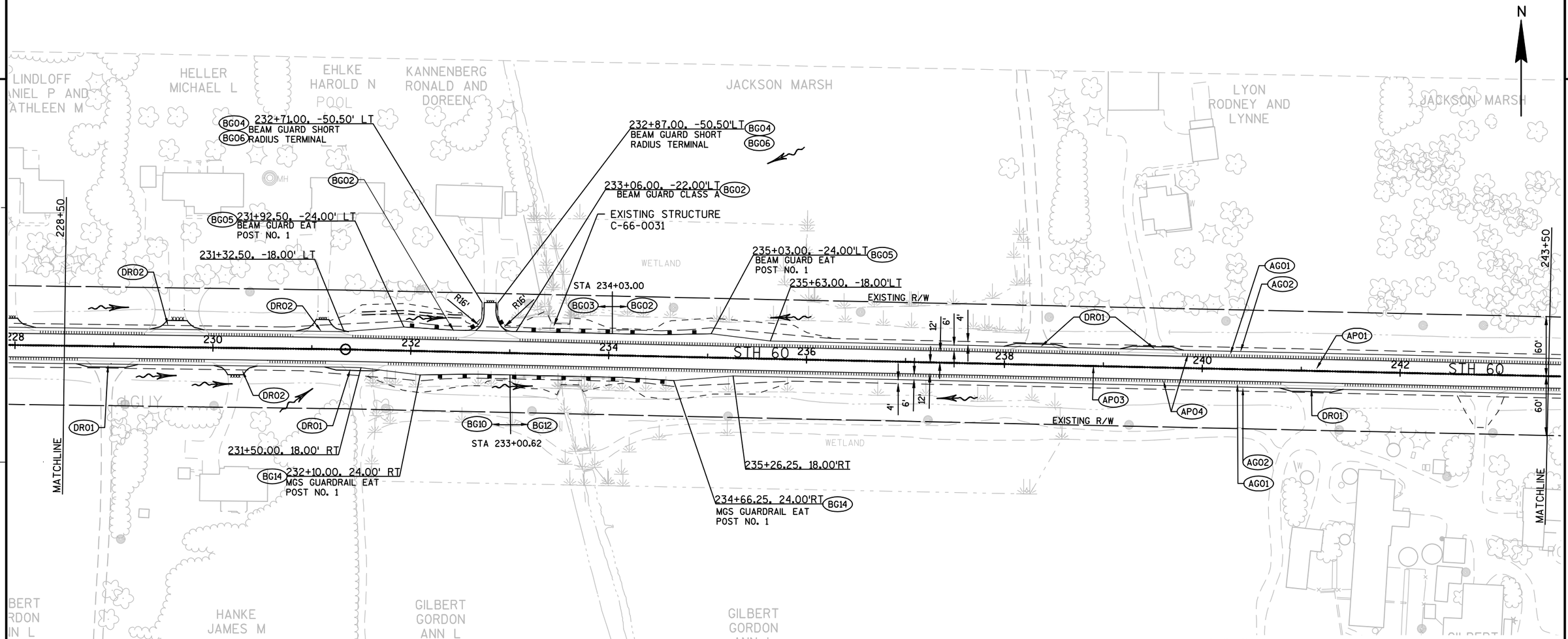


LEGEND

AG01	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS	DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH	BG08	ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
AG02	BASE AGGREGATE DENSE 3/4-INCH	DR03	CONCRETE DRIVEWAY 6-INCH	BG10	MGS GUARDRAIL 3
AP01	HMA PAVEMENT 4 INCH	SG01	SUBGRADE RELIEF TRENCH	BG11	MGS GUARDRAIL 3 K
AP02	HMA PAVEMENT 6-1/2 INCH	SG02	PIPE UNDERDRAIN 6-INCH	BG12	MGS GUARDRAIL 3 L
AP03	ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL	BG01	STEEL THRIE BEAM STRUCTURE APPROACH	BG13	MGS THRIE BEAM TRANSITION
AP04	ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL	BG02	STEEL PLATE BEAM GUARD CLASS A	BG14	MGS GUARDRAIL TERMINAL EAT
CG01	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	BG03	STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A	XXXX	SAW CUT
CG02	CONCRETE SURFACE DRAINS	BG04	STEEL PLATE BEAM GUARD SHORT RADIUS		DRAINAGE DITCH
CG03	CONCRETE CURB & GUTTER 30-INCH TYPE D	BG05	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL		STORM SEWER MANHOLE
DR01	AGGREGATE DRIVEWAY AND FIELD ENTRANCES	BG06	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL		STORM SEWER INLET
		BG07	GUARDRAIL MOW STRIP CONCRETE		APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 57	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021201-PD - 021203
PLOT DATE : 4/26/2018 3:31 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42

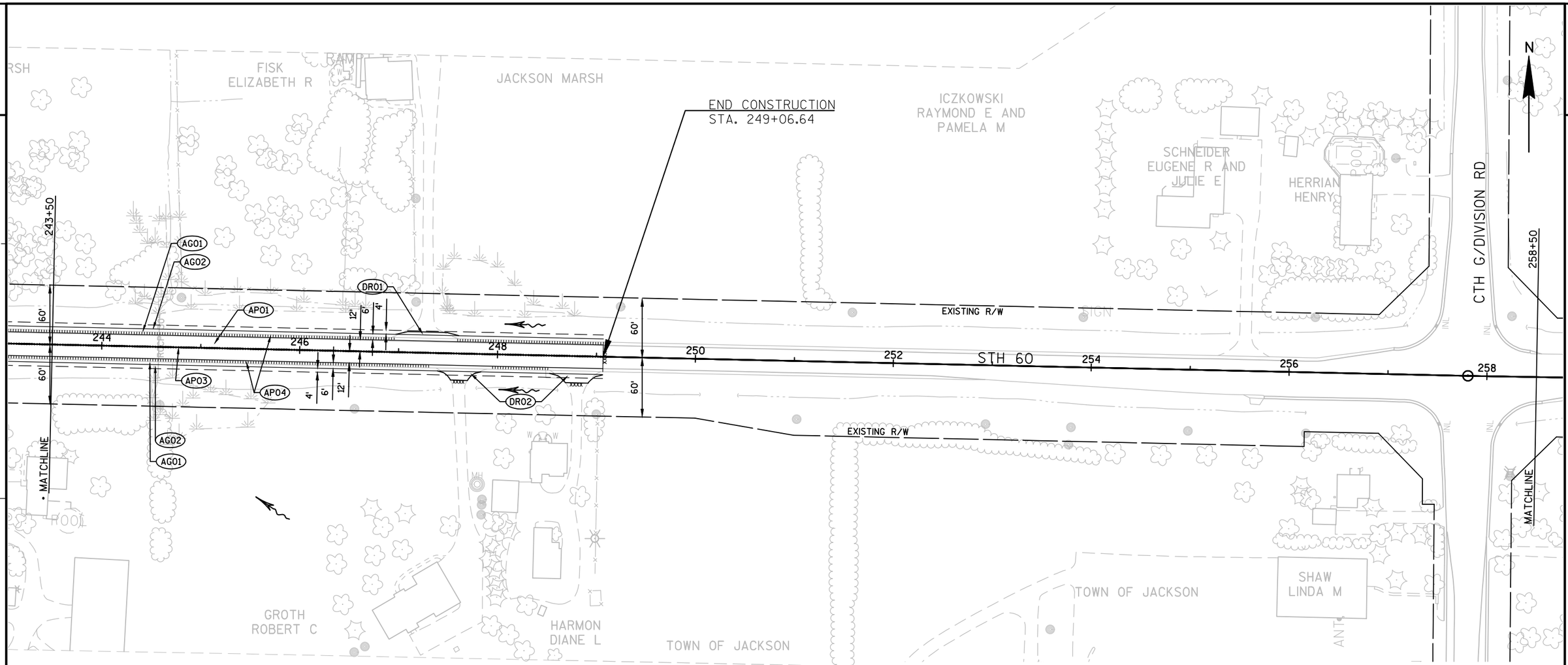


LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- APO1 HMA PAVEMENT 4 INCH
- APO2 HMA PAVEMENT 6-1/2 INCH
- APO3 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- APO4 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D
- DR01 AGGREGATE DRIVEWAY AND FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BG04 STEEL PLATE BEAM GUARD SHORT RADIUS
- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG08 ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 58	E

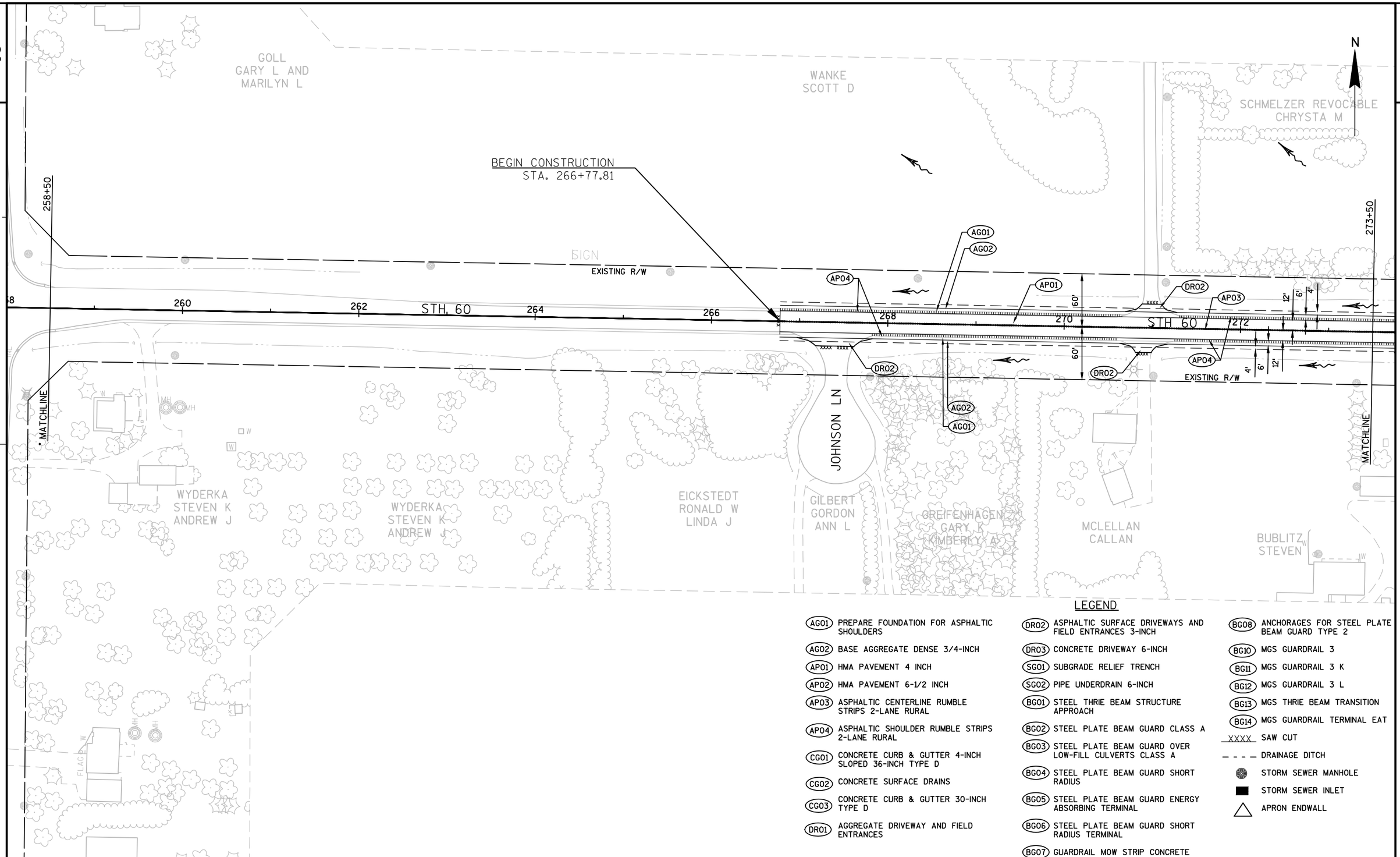
FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021201-PD - 021204
PLOT DATE : 4/27/2018 11:22 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42



LEGEND

AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS	DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH	BG08 ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
AG02 BASE AGGREGATE DENSE 3/4-INCH	DR03 CONCRETE DRIVEWAY 6-INCH	BG10 MGS GUARDRAIL 3
AP01 HMA PAVEMENT 4 INCH	SG01 SUBGRADE RELIEF TRENCH	BG11 MGS GUARDRAIL 3 K
AP02 HMA PAVEMENT 6-1/2 INCH	SG02 PIPE UNDERDRAIN 6-INCH	BG12 MGS GUARDRAIL 3 L
AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL	BG01 STEEL THRIE BEAM STRUCTURE APPROACH	BG13 MGS THRIE BEAM TRANSITION
AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL	BG02 STEEL PLATE BEAM GUARD CLASS A	BG14 MGS GUARDRAIL TERMINAL EAT
CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A	XXXX SAW CUT
CG02 CONCRETE SURFACE DRAINS	BG04 STEEL PLATE BEAM GUARD SHORT RADIUS	DRAINAGE DITCH
CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D	BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL	STORM SEWER MANHOLE
DR01 AGGREGATE DRIVEWAY AND FIELD ENTRANCES	BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL	STORM SEWER INLET
	BG07 GUARDRAIL MOW STRIP CONCRETE	APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 59	E



LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D
- DR01 AGGREGATE DRIVEWAY AND FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BG04 STEEL PLATE BEAM GUARD SHORT RADIUS
- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG08 ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 60	E

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LAYOUT NAME - 021201-PD - 021206
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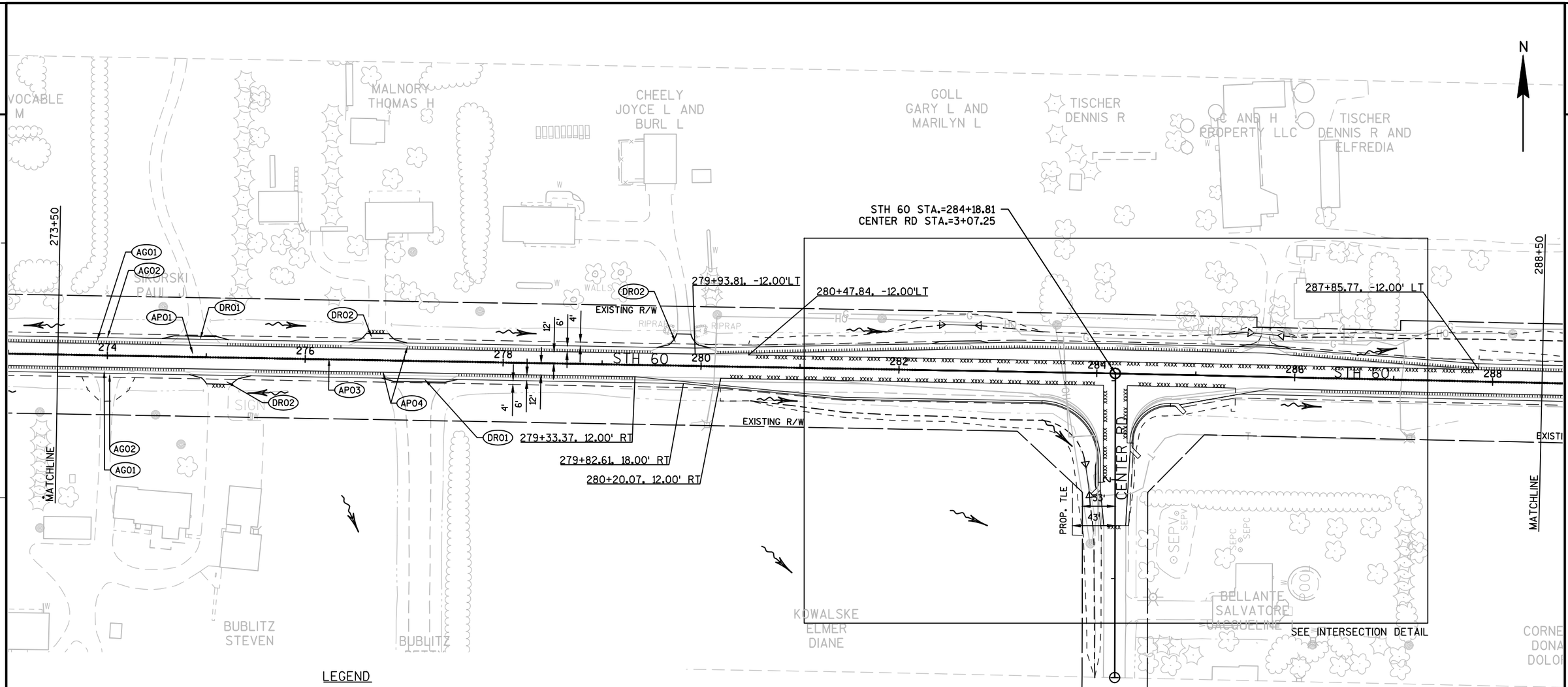
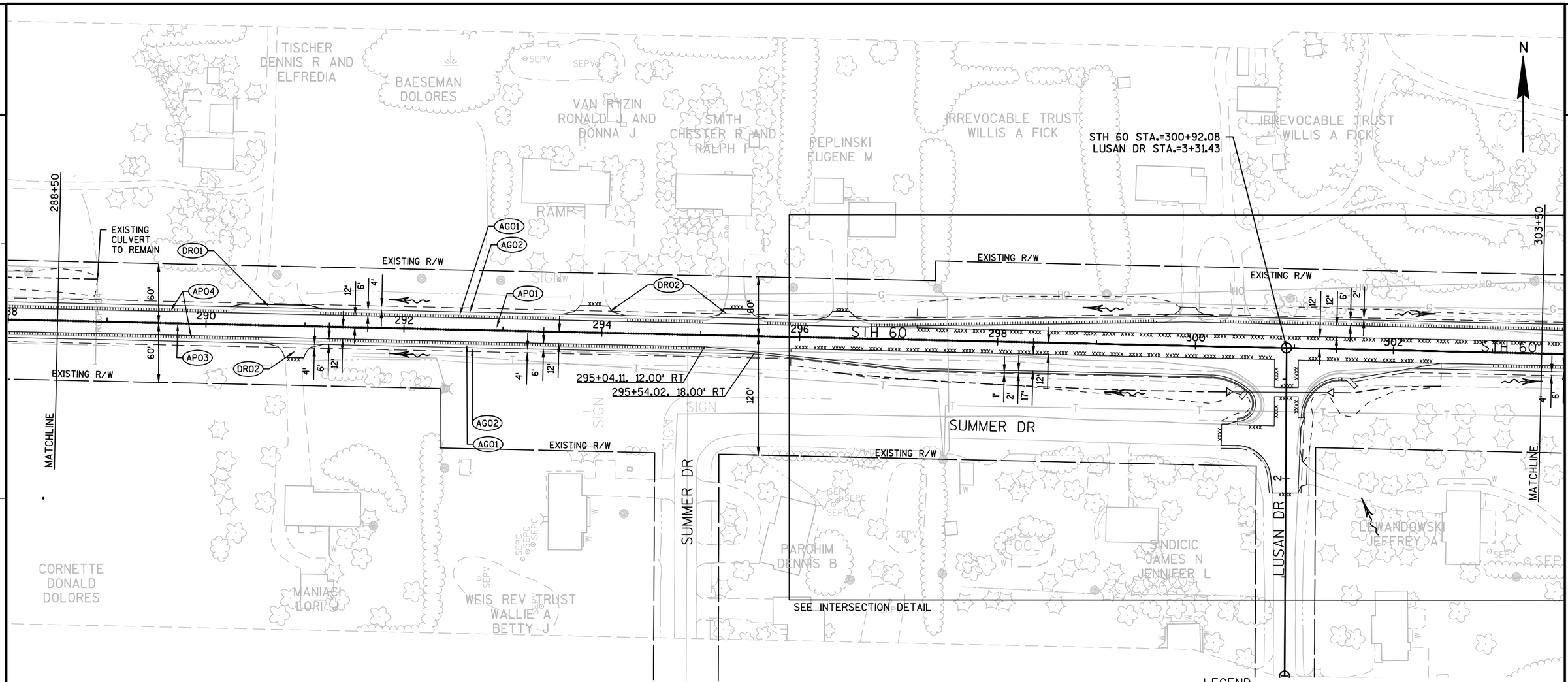


LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D
- DR01 AGGREGATE DRIVEWAY AND FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BG04 STEEL PLATE BEAM GUARD SHORT RADIUS
- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG08 ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 61	E



LEGEND

- (AG01) PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- (AG02) BASE AGGREGATE DENSE 3/4-INCH
- (AP01) HMA PAVEMENT 4 INCH
- (AP02) HMA PAVEMENT 6-1/2 INCH
- (AP03) ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- (AP04) ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- (CG01) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CG02) CONCRETE SURFACE DRAINS
- (CG03) CONCRETE CURB & GUTTER 30-INCH TYPE D
- (DR01) AGGREGATE DRIVEWAY AND FIELD ENTRANCES
- (DR02) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- (DR03) CONCRETE DRIVEWAY 6-INCH
- (SG01) SUBGRADE RELIEF TRENCH
- (SG02) PIPE UNDERDRAIN 6-INCH
- (BG01) STEEL THRIE BEAM STRUCTURE APPROACH
- (BG02) STEEL PLATE BEAM GUARD CLASS A
- (BG03) STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- (BG04) STEEL PLATE BEAM GUARD SHORT RADIUS
- (BG05) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG06) STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- (BG07) GUARDRAIL MOW STRIP CONCRETE
- (BG08) ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
- (BG10) MGS GUARDRAIL 3
- (BG11) MGS GUARDRAIL 3 K
- (BG12) MGS GUARDRAIL 3 L
- (BG13) MGS THRIE BEAM TRANSITION
- (BG14) MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 62	E

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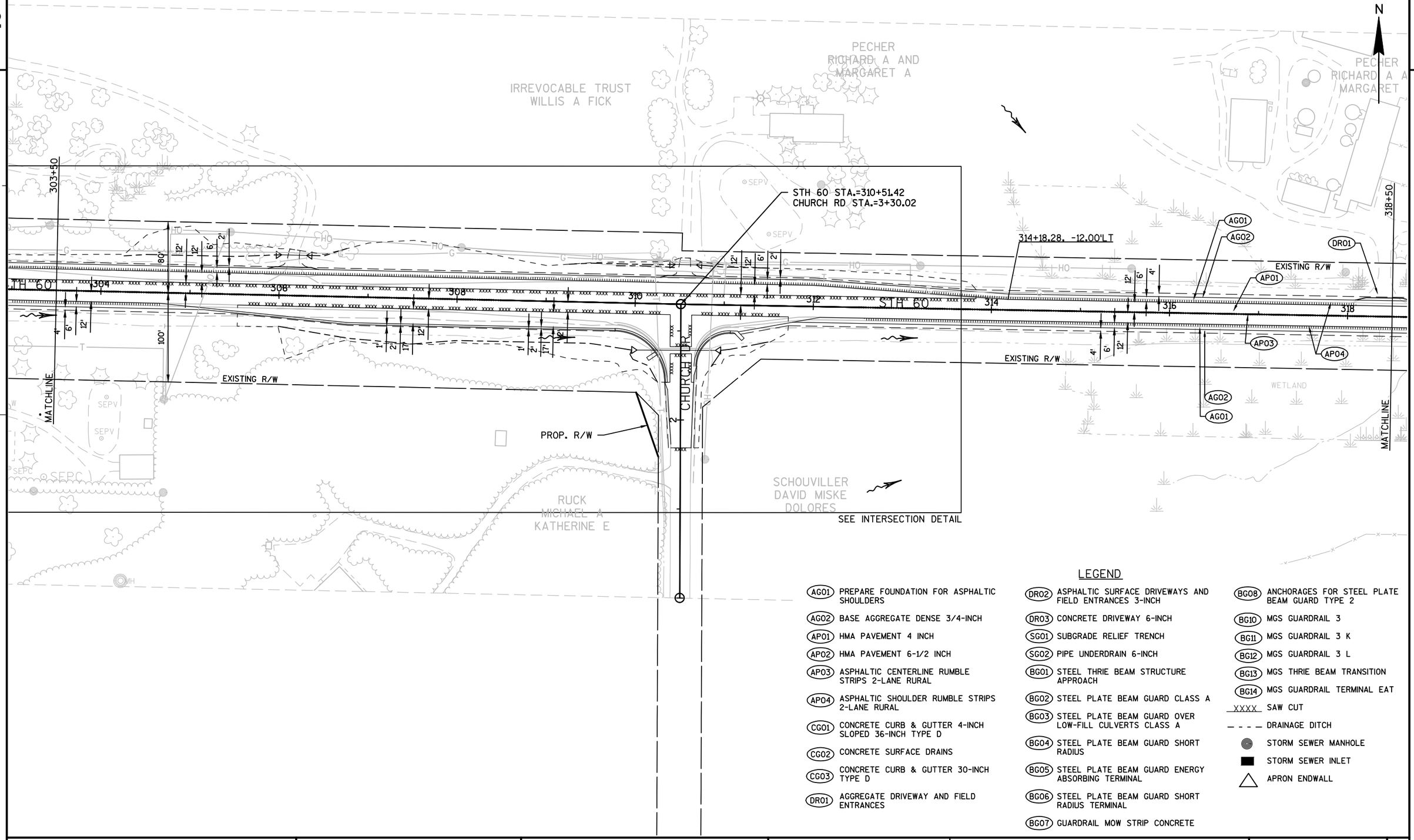
PLOT BY : KEVIN WEIGHNER
PLOT NAME :
PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42



LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D
- DR01 AGGREGATE DRIVEWAY AND FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BG04 STEEL PLATE BEAM GUARD SHORT RADIUS
- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG08 ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 63	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021201-PD.DWG
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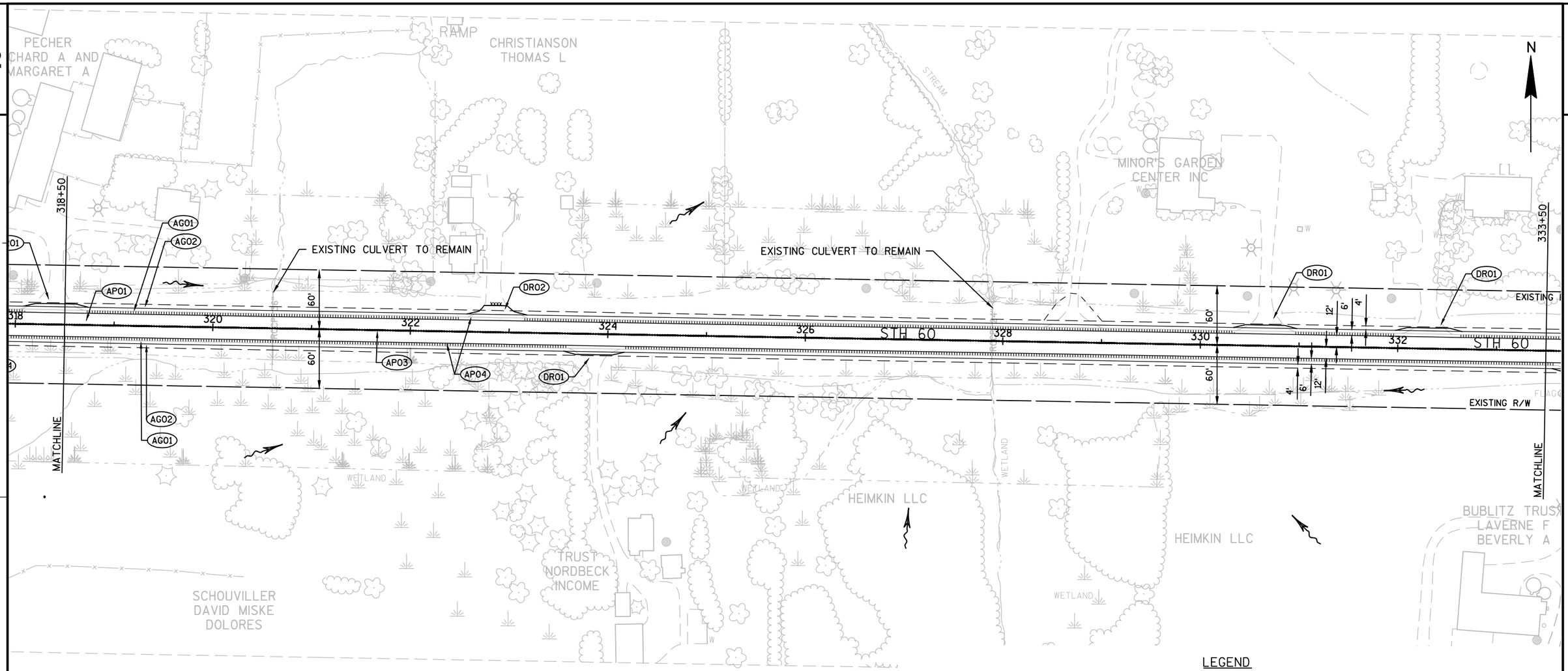

LEGEND

AG01	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS	DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
AG02	BASE AGGREGATE DENSE 3/4-INCH	DR03	CONCRETE DRIVEWAY 6-INCH
AP01	HMA PAVEMENT 4 INCH	SG01	SUBGRADE RELIEF TRENCH
AP02	HMA PAVEMENT 6-1/2 INCH	SG02	PIPE UNDERDRAIN 6-INCH
AP03	ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL	BG01	STEEL THRIE BEAM STRUCTURE APPROACH
AP04	ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL	BG02	STEEL PLATE BEAM GUARD CLASS A
CG01	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	BG03	STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
CG02	CONCRETE SURFACE DRAINS	BG04	STEEL PLATE BEAM GUARD SHORT RADIUS
CG03	CONCRETE CURB & GUTTER 30-INCH TYPE D	BG05	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
DR01	AGGREGATE DRIVEWAY AND FIELD ENTRANCES	BG06	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
		BG07	GUARDRAIL MOW STRIP CONCRETE
		BG08	ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
		BG10	MGS GUARDRAIL 3
		BG11	MGS GUARDRAIL 3 K
		BG12	MGS GUARDRAIL 3 L
		BG13	MGS THRIE BEAM TRANSITION
		BG14	MGS GUARDRAIL TERMINAL EAT
		XXXX	SAW CUT
			DRAINAGE DITCH
			STORM SEWER MANHOLE
			STORM SEWER INLET
			APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 64	E

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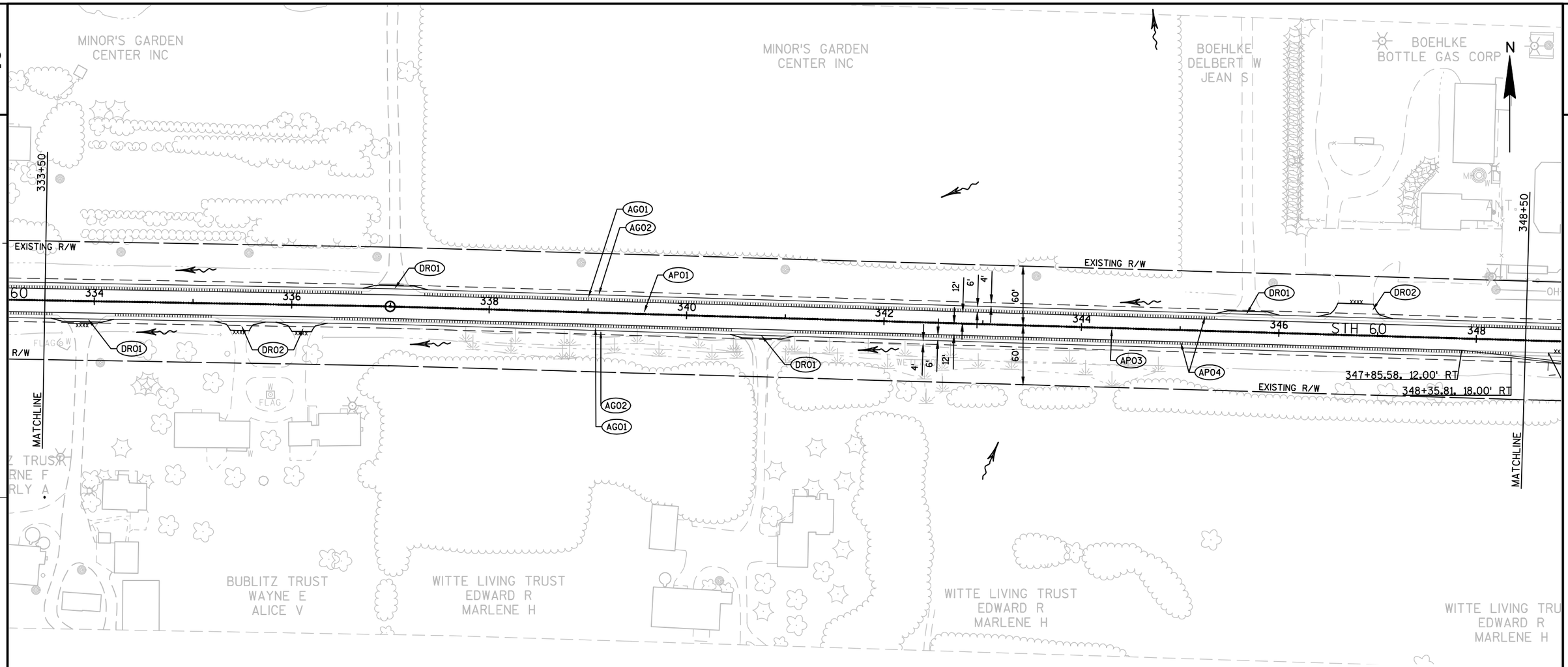

LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D
- DR01 AGGREGATE DRIVEWAY AND FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BG04 STEEL PLATE BEAM GUARD SHORT RADIUS
- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG08 ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 65	E

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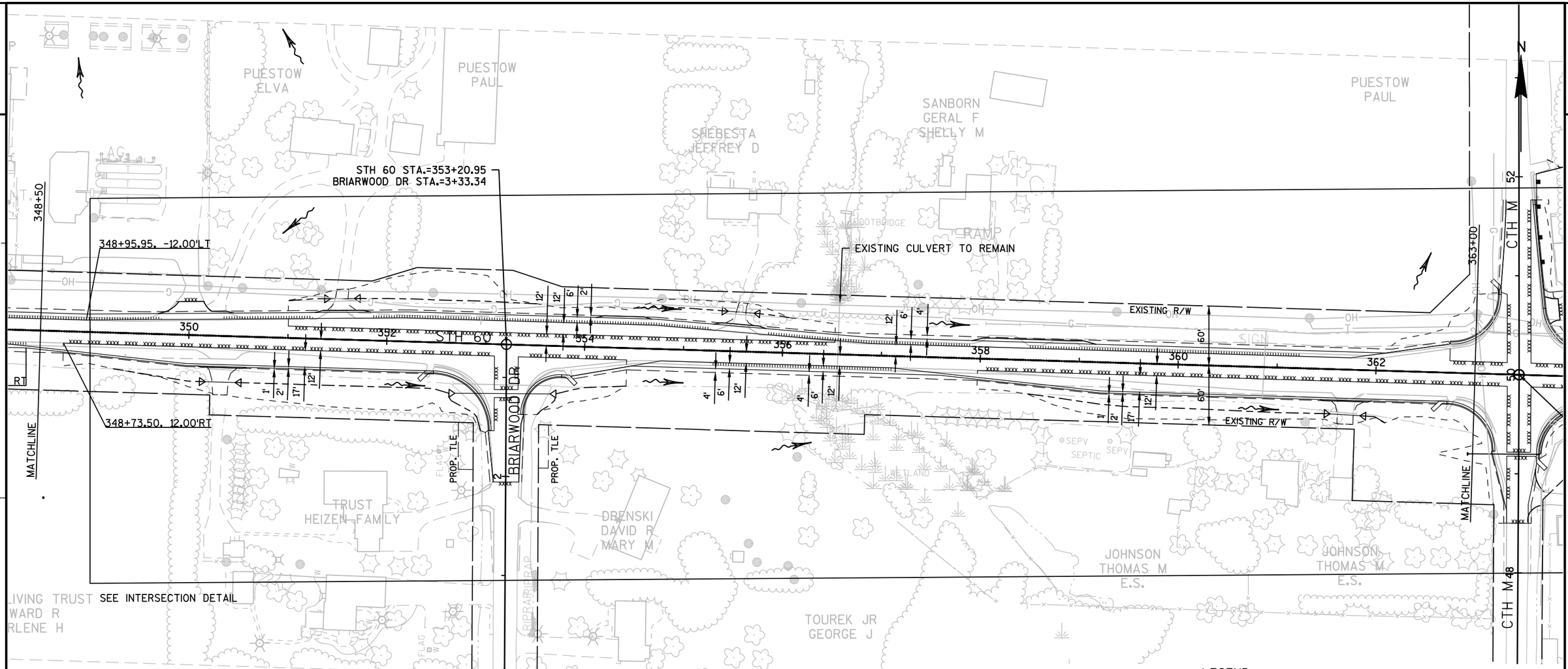

LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D
- DR01 AGGREGATE DRIVEWAY AND FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BG04 STEEL PLATE BEAM GUARD SHORT RADIUS
- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG08 ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 66	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021201-PD.DWG
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PLOT BY : KEVIN WEIGHNER
PLOT NAME :
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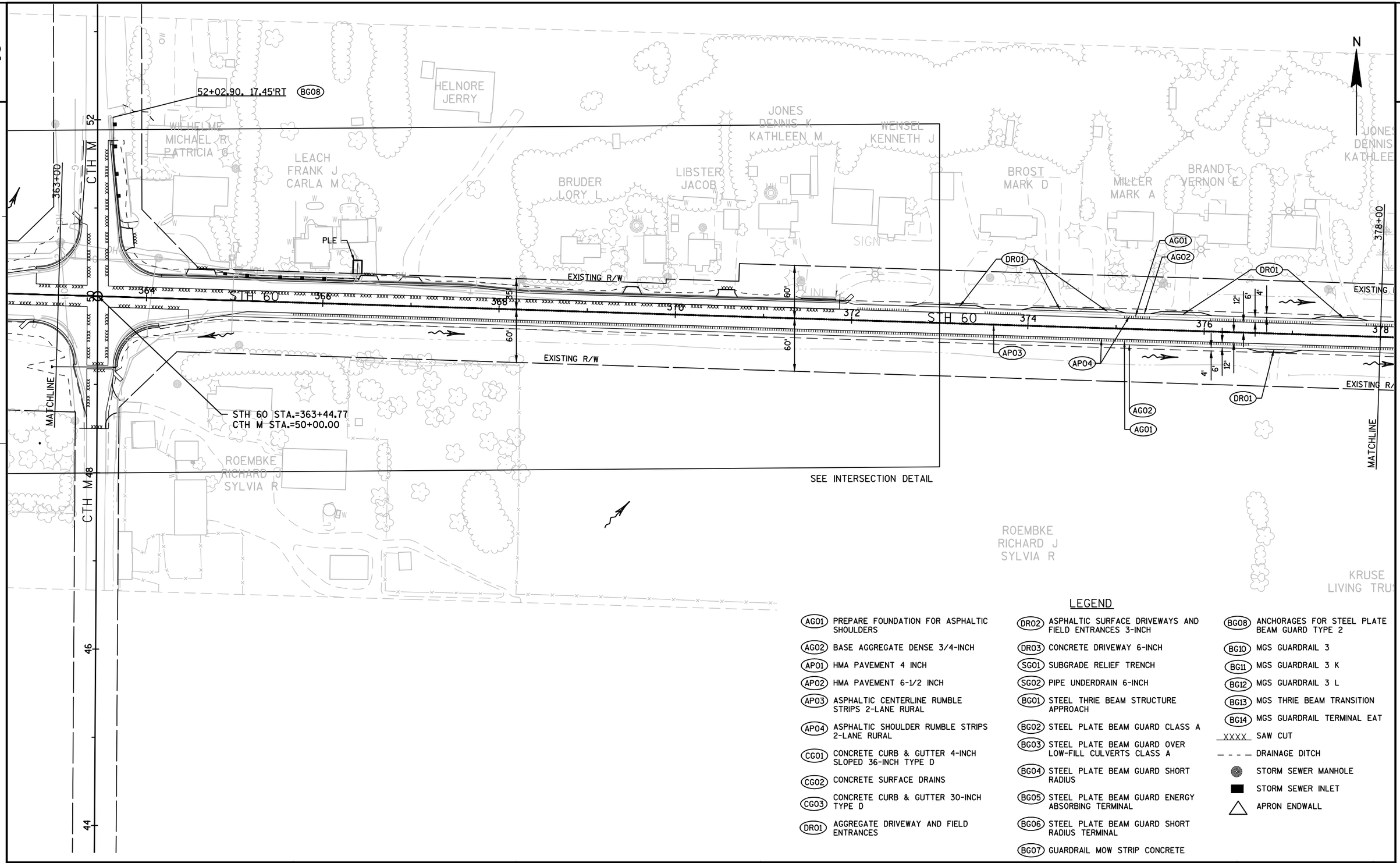
WISDOT/CADDS SHEET 42



LEGEND

AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS	DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH	BG08 ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
AG02 BASE AGGREGATE DENSE 3/4-INCH	DR03 CONCRETE DRIVEWAY 6-INCH	BG10 MGS GUARDRAIL 3
AP01 HMA PAVEMENT 4 INCH	SG01 SUBGRADE RELIEF TRENCH	BG11 MGS GUARDRAIL 3 K
AP02 HMA PAVEMENT 6-1/2 INCH	SG02 PIPE UNDERDRAIN 6-INCH	BG12 MGS GUARDRAIL 3 L
AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL	BG01 STEEL THRIE BEAM STRUCTURE APPROACH	BG13 MGS THRIE BEAM TRANSITION
AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL	BG02 STEEL PLATE BEAM GUARD CLASS A	BG14 MGS GUARDRAIL TERMINAL EAT
CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A	XXXX SAW CUT
CG02 CONCRETE SURFACE DRAINS	BG04 STEEL PLATE BEAM GUARD SHORT RADIUS	DRAINAGE DITCH
CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D	BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL	STORM SEWER MANHOLE
DR01 AGGREGATE DRIVEWAY AND FIELD ENTRANCES	BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL	STORM SEWER INLET
	BG07 GUARDRAIL MOW STRIP CONCRETE	APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 67	E

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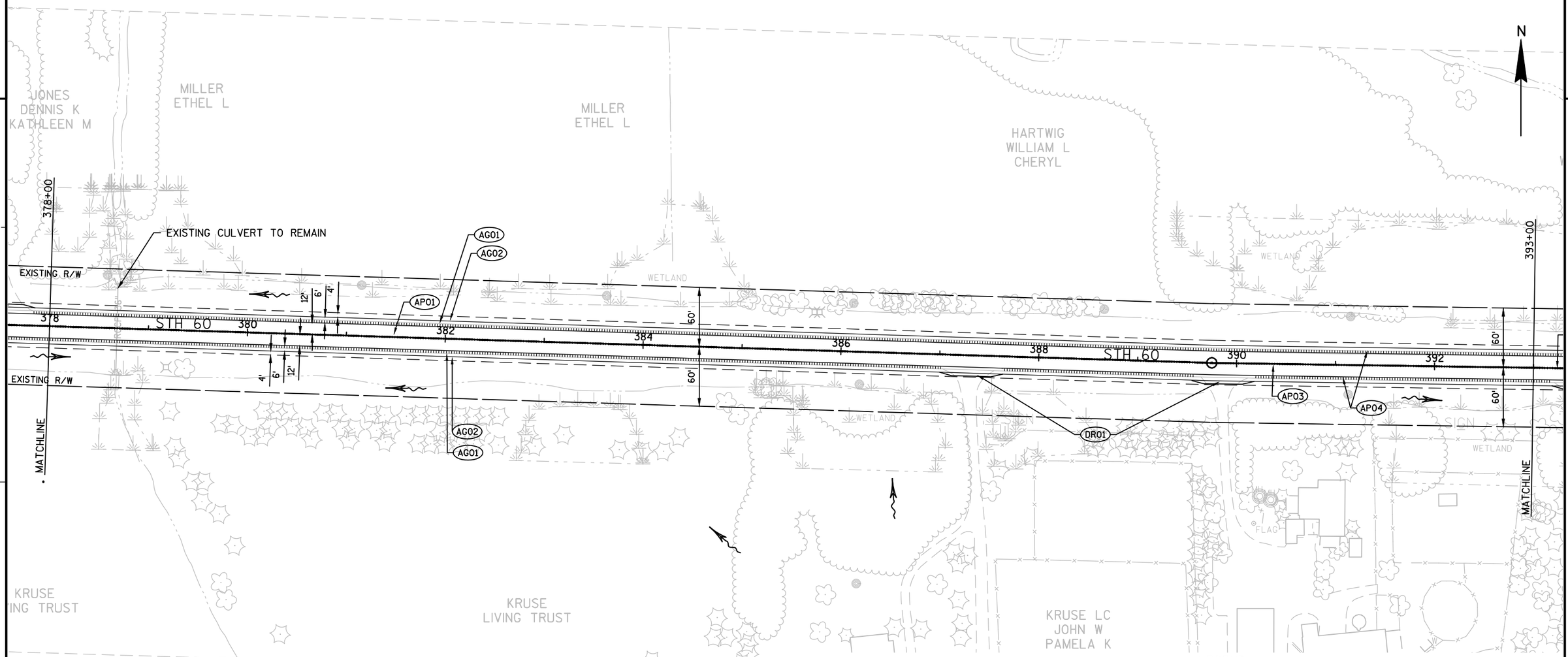

LEGEND

- (AG01) PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- (AG02) BASE AGGREGATE DENSE 3/4-INCH
- (AP01) HMA PAVEMENT 4 INCH
- (AP02) HMA PAVEMENT 6-1/2 INCH
- (AP03) ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- (AP04) ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- (CG01) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CG02) CONCRETE SURFACE DRAINS
- (CG03) CONCRETE CURB & GUTTER 30-INCH TYPE D
- (DR01) AGGREGATE DRIVEWAY AND FIELD ENTRANCES
- (DR02) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- (DR03) CONCRETE DRIVEWAY 6-INCH
- (SG01) SUBGRADE RELIEF TRENCH
- (SG02) PIPE UNDERDRAIN 6-INCH
- (BG01) STEEL THRIE BEAM STRUCTURE APPROACH
- (BG02) STEEL PLATE BEAM GUARD CLASS A
- (BG03) STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- (BG04) STEEL PLATE BEAM GUARD SHORT RADIUS
- (BG05) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG06) STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- (BG07) GUARDRAIL MOW STRIP CONCRETE
- (BG08) ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
- (BG10) MGS GUARDRAIL 3
- (BG11) MGS GUARDRAIL 3 K
- (BG12) MGS GUARDRAIL 3 L
- (BG13) MGS THRIE BEAM TRANSITION
- (BG14) MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 68	E

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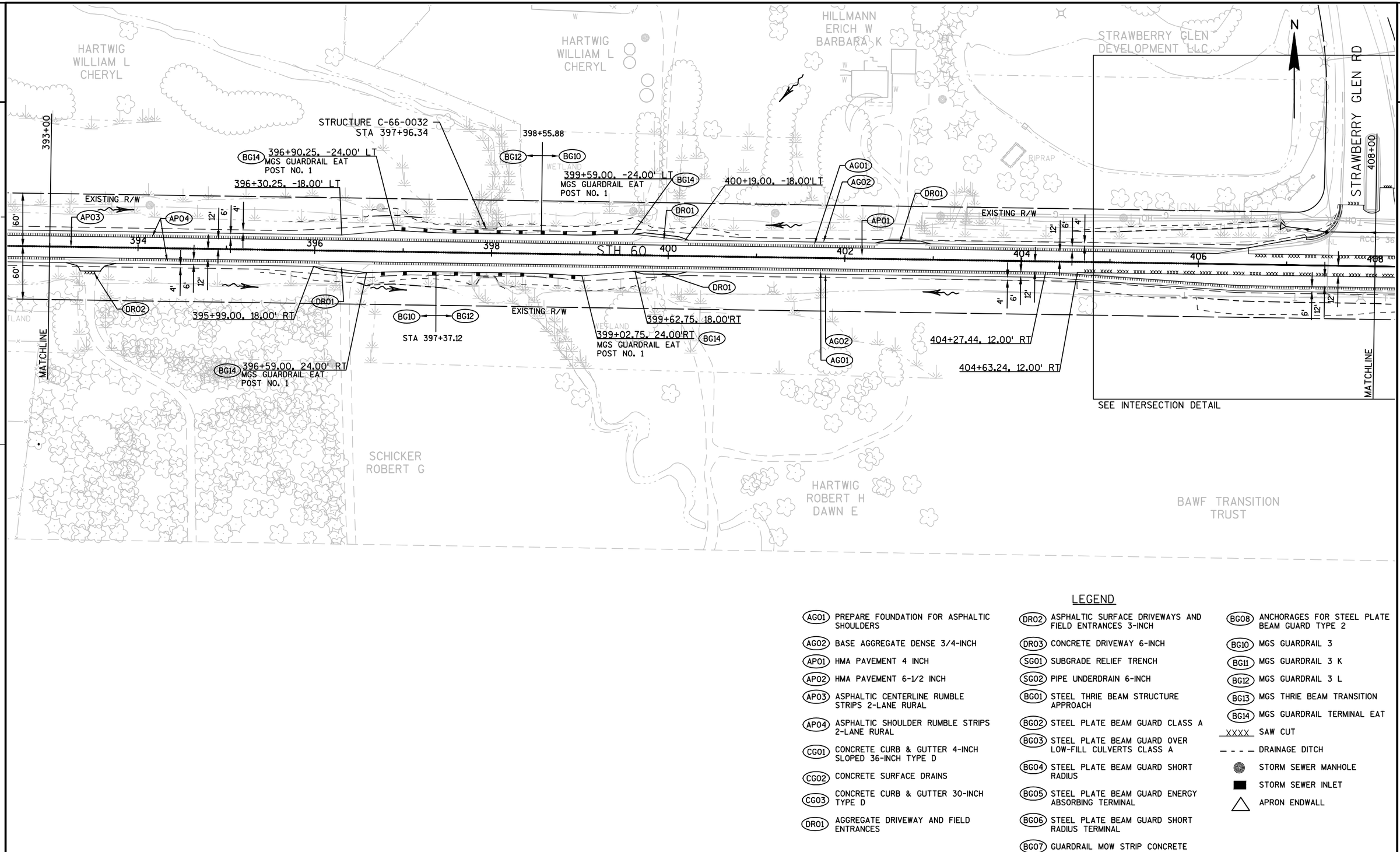

LEGEND

- AGO1 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AGO2 BASE AGGREGATE DENSE 3/4-INCH
- APO1 HMA PAVEMENT 4 INCH
- APO2 HMA PAVEMENT 6-1/2 INCH
- APO3 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- APO4 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CGO1 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CGO2 CONCRETE SURFACE DRAINS
- CGO3 CONCRETE CURB & GUTTER 30-INCH TYPE D
- DRO1 AGGREGATE DRIVEWAY AND FIELD ENTRANCES
- DRO2 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DRO3 CONCRETE DRIVEWAY 6-INCH
- SGO1 SUBGRADE RELIEF TRENCH
- SGO2 PIPE UNDERDRAIN 6-INCH
- BGO1 STEEL THRIE BEAM STRUCTURE APPROACH
- BGO2 STEEL PLATE BEAM GUARD CLASS A
- BGO3 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BGO4 STEEL PLATE BEAM GUARD SHORT RADIUS
- BGO5 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BGO6 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BGO7 GUARDRAIL MOW STRIP CONCRETE
- BGO8 ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 69	E

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WISDOT/CADDS SHEET 42

2

N

STRAWBERRY GLEN RD

408+00

MN HOLDINGS INC

SEPTIC

SEPV

SEPC

SEPC

MN HOLDINGS INC

WASHINGTON COUNTY
OZAUKEE COUNTY

BEL-FORD
FARM LLC

411+79.31, -29.00'LT

413+04.42, -12.00'LT

413+41.88, -18.00'LT

413+91.75, -12.00'LT

EXISTING R/W

STH 60

408 410 412 414 416 418 420 422

423+00

AG01
AG02
AP01
AP03
AP04
DR01

EXISTING R/W

MATCHLINE

SEE INTERSECTION DETAIL

WETLAND

412+19.44, 12.00'RT

411+65.33, 12.00'RT

MEUNIER
CHAS
ROSEMARIE

TEALCO
GROUP

MEUNIER
CHAS
ROSEMARIE

MATCHLINE

LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D
- DR01 AGGREGATE DRIVEWAY AND FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BG04 STEEL PLATE BEAM GUARD SHORT RADIUS
- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG08 ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 70	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021201-PD - 0212016

PLOT DATE : 4/26/2018 3:37 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

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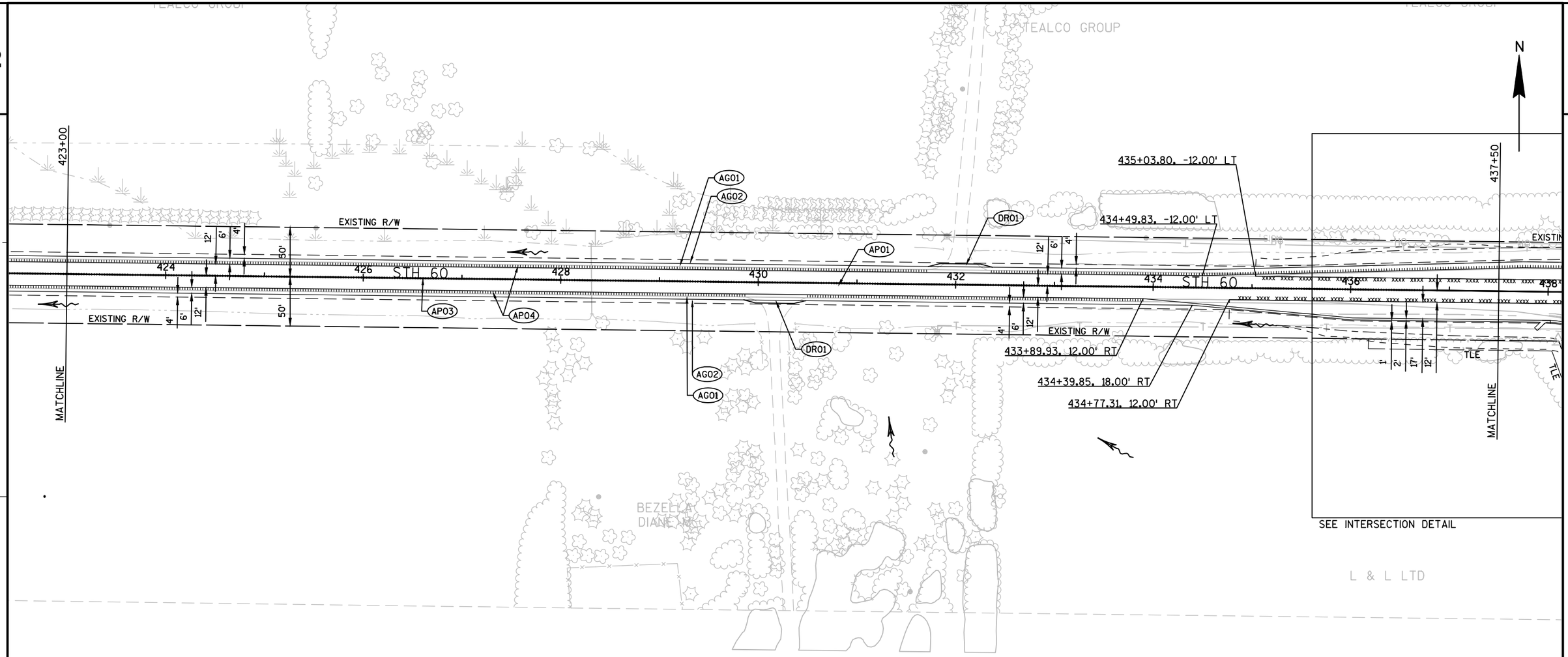

SEE INTERSECTION DETAIL

LEGEND

- (AG01) PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- (AG02) BASE AGGREGATE DENSE 3/4-INCH
- (AP01) HMA PAVEMENT 4 INCH
- (AP02) HMA PAVEMENT 6-1/2 INCH
- (AP03) ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- (AP04) ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- (CG01) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CG02) CONCRETE SURFACE DRAINS
- (CG03) CONCRETE CURB & GUTTER 30-INCH TYPE D
- (DR01) AGGREGATE DRIVEWAY AND FIELD ENTRANCES
- (DR02) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- (DR03) CONCRETE DRIVEWAY 6-INCH
- (SG01) SUBGRADE RELIEF TRENCH
- (SG02) PIPE UNDERDRAIN 6-INCH
- (BG01) STEEL THRIE BEAM STRUCTURE APPROACH
- (BG02) STEEL PLATE BEAM GUARD CLASS A
- (BG03) STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- (BG04) STEEL PLATE BEAM GUARD SHORT RADIUS
- (BG05) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG06) STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- (BG07) GUARDRAIL MOW STRIP CONCRETE
- (BG08) ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
- (BG10) MGS GUARDRAIL 3
- (BG11) MGS GUARDRAIL 3 K
- (BG12) MGS GUARDRAIL 3 L
- (BG13) MGS THRIE BEAM TRANSITION
- (BG14) MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 71	E

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LAYOUT NAME - 021201-PD - 021201?
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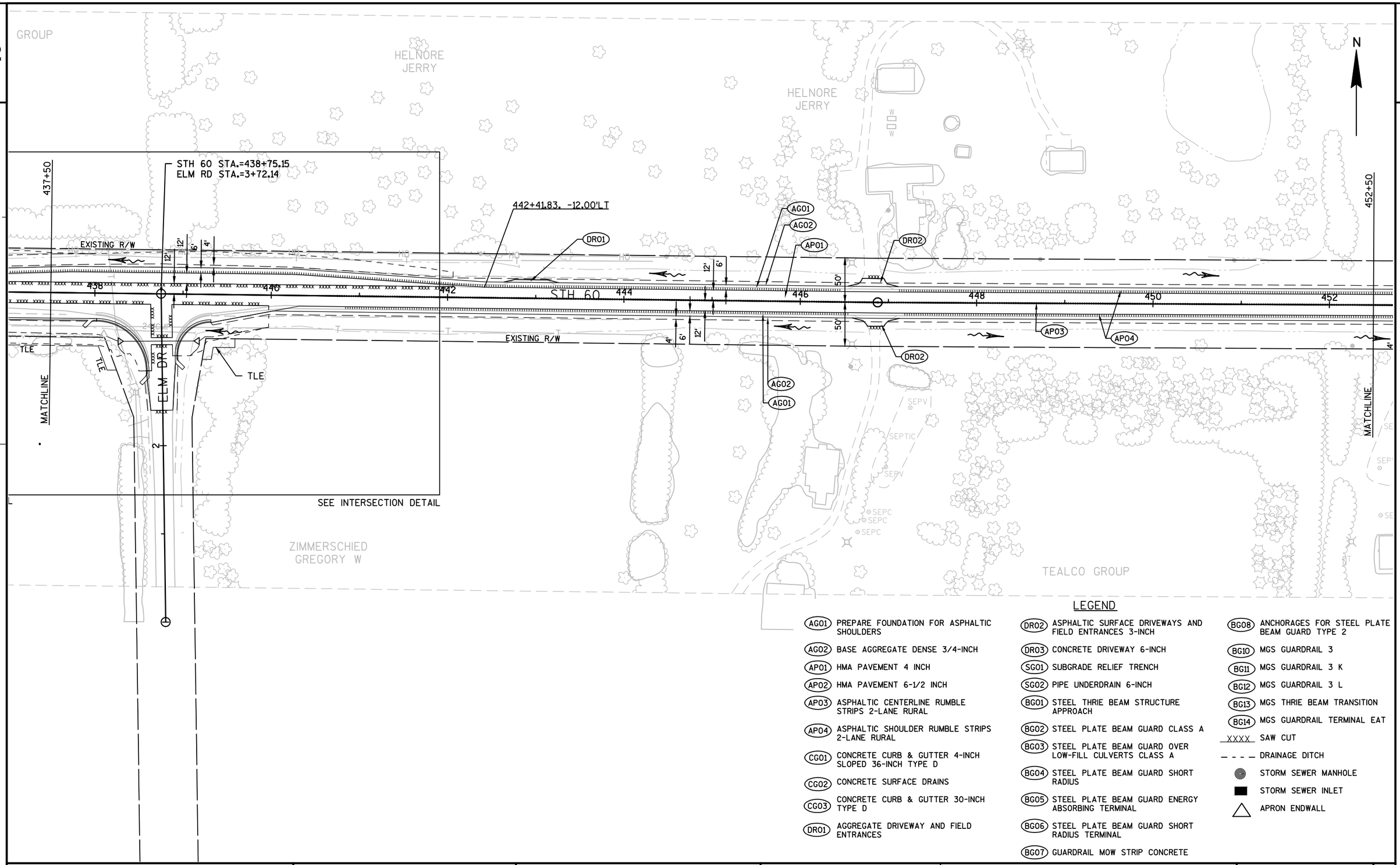
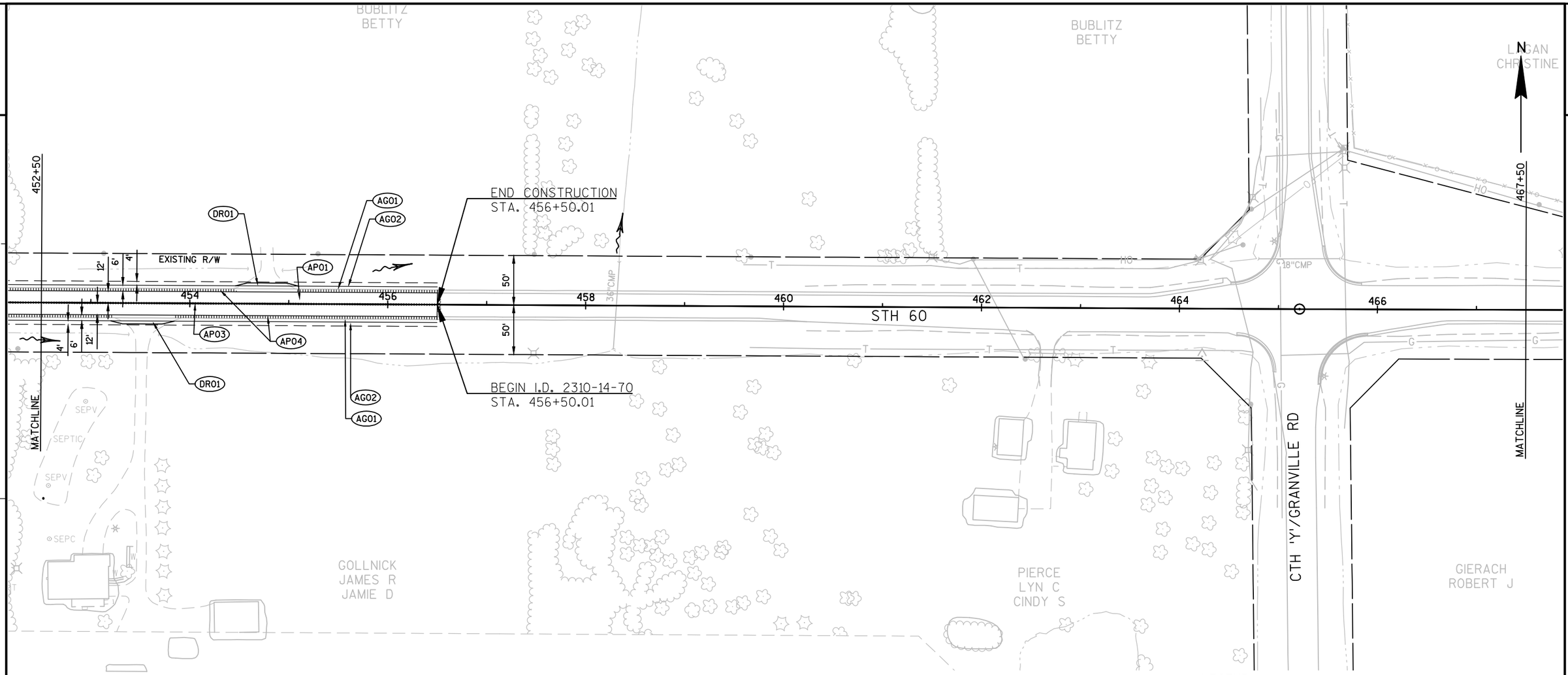
PLOT BY : KEVIN WEIGHNER
PLOT NAME :
PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42



LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D
- DR01 AGGREGATE DRIVEWAY AND FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A
- BG04 STEEL PLATE BEAM GUARD SHORT RADIUS
- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG06 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG08 ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 72	E



LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG02 CONCRETE SURFACE DRAINS
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- DR01 AGGREGATE DRIVEWAY AND FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
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- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
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- BG05 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
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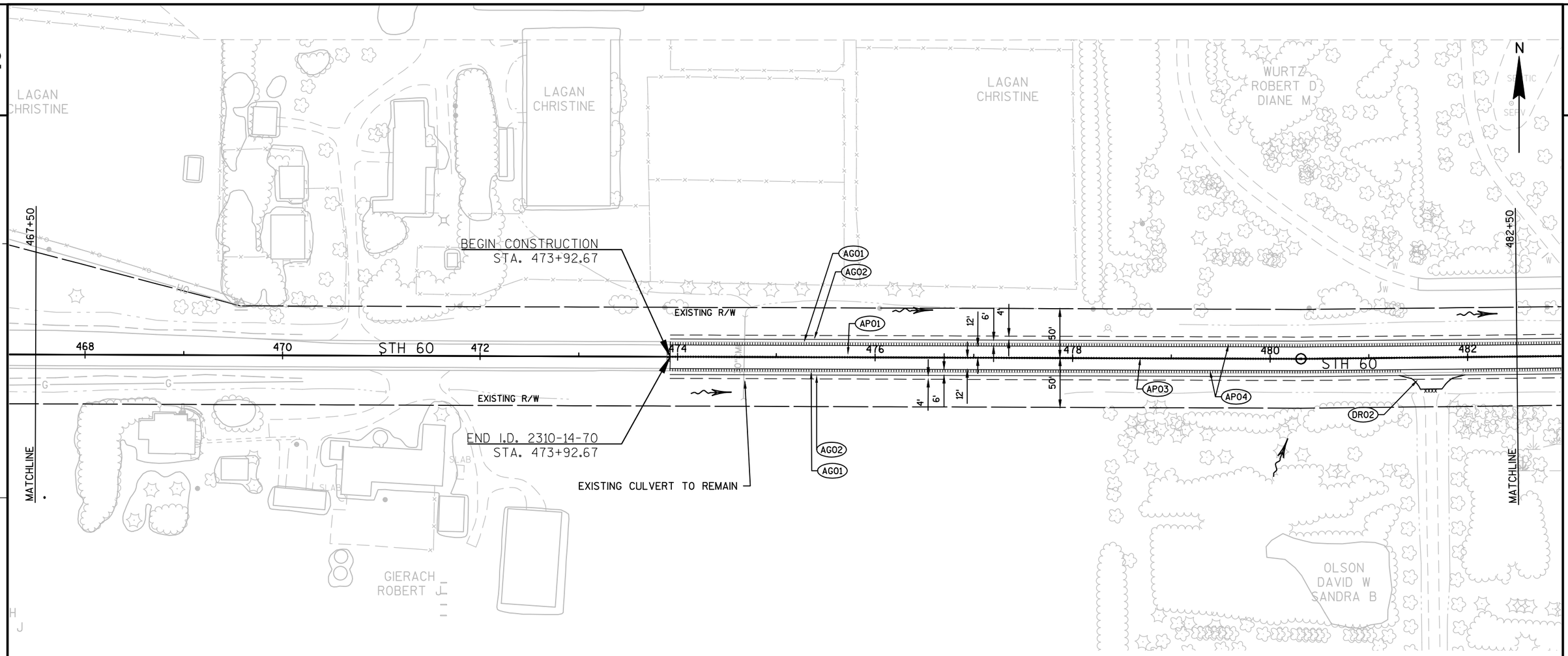
- BG07 GUARDRAIL MOW STRIP CONCRETE
- BG08 ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 73	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021201-PD - 0212019
PLOT DATE : 4/26/2018 3:37 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42



LEGEND

AG01	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS	DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH	BG08	ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
AG02	BASE AGGREGATE DENSE 3/4-INCH	DR03	CONCRETE DRIVEWAY 6-INCH	BG10	MGS GUARDRAIL 3
AP01	HMA PAVEMENT 4 INCH	SG01	SUBGRADE RELIEF TRENCH	BG11	MGS GUARDRAIL 3 K
AP02	HMA PAVEMENT 6-1/2 INCH	SG02	PIPE UNDERDRAIN 6-INCH	BG12	MGS GUARDRAIL 3 L
AP03	ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL	BG01	STEEL THRIE BEAM STRUCTURE APPROACH	BG13	MGS THRIE BEAM TRANSITION
AP04	ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL	BG02	STEEL PLATE BEAM GUARD CLASS A	BG14	MGS GUARDRAIL TERMINAL EAT
CG01	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	BG03	STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A	XXXX	SAW CUT
CG02	CONCRETE SURFACE DRAINS	BG04	STEEL PLATE BEAM GUARD SHORT RADIUS		DRAINAGE DITCH
CG03	CONCRETE CURB & GUTTER 30-INCH TYPE D	BG05	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL		STORM SEWER MANHOLE
DR01	AGGREGATE DRIVEWAY AND FIELD ENTRANCES	BG06	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL		STORM SEWER INLET
		BG07	GUARDRAIL MOW STRIP CONCRETE		APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 74	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021201-PD - 0212020

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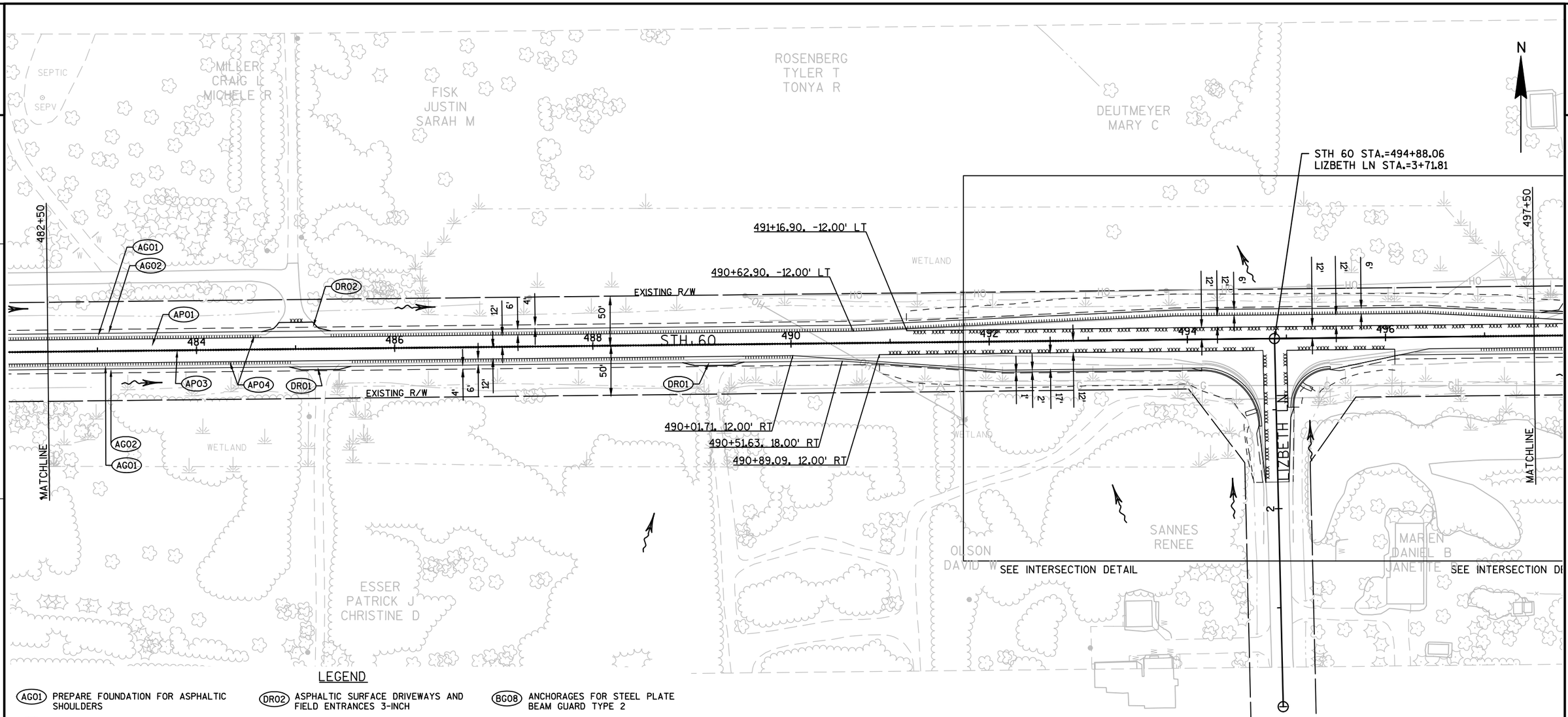

LEGEND

- (AG01) PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- (AG02) BASE AGGREGATE DENSE 3/4-INCH
- (AP01) HMA PAVEMENT 4 INCH
- (AP02) HMA PAVEMENT 6-1/2 INCH
- (AP03) ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- (AP04) ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- (CG01) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CG02) CONCRETE SURFACE DRAINS
- (CG03) CONCRETE CURB & GUTTER 30-INCH TYPE D
- (DR01) AGGREGATE DRIVEWAY AND FIELD ENTRANCES
- (DR02) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- (DR03) CONCRETE DRIVEWAY 6-INCH
- (SG01) SUBGRADE RELIEF TRENCH
- (SG02) PIPE UNDERDRAIN 6-INCH
- (BG01) STEEL THRIE BEAM STRUCTURE APPROACH
- (BG02) STEEL PLATE BEAM GUARD CLASS A
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- (BG05) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG06) STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
- (BG07) GUARDRAIL MOW STRIP CONCRETE
- (BG08) ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
- (BG10) MGS GUARDRAIL 3
- (BG11) MGS GUARDRAIL 3 K
- (BG12) MGS GUARDRAIL 3 L
- (BG13) MGS THRIE BEAM TRANSITION
- (BG14) MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 75	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021201-PD - 0212021
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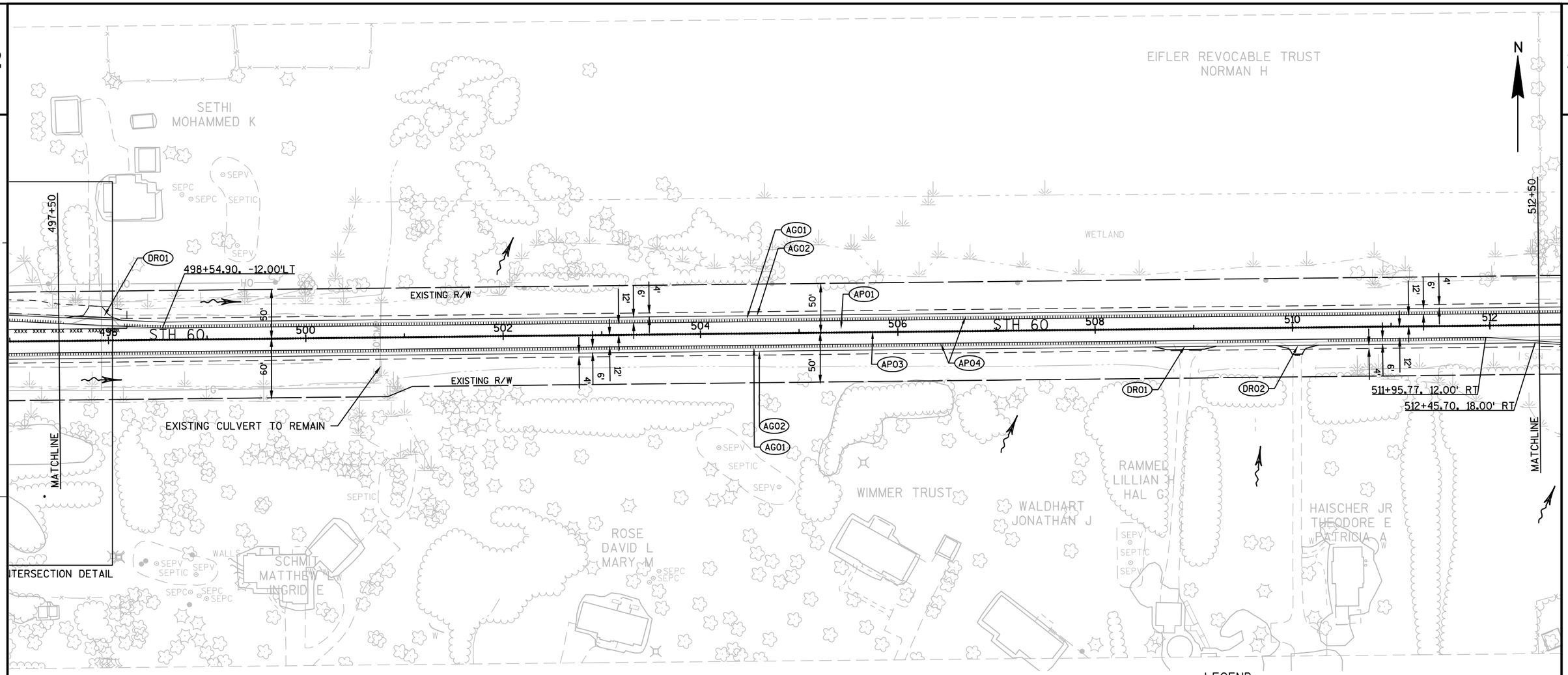
PLOT NAME :
PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42



LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D
- DR01 AGGREGATE DRIVEWAY AND FIELD ENTRANCES
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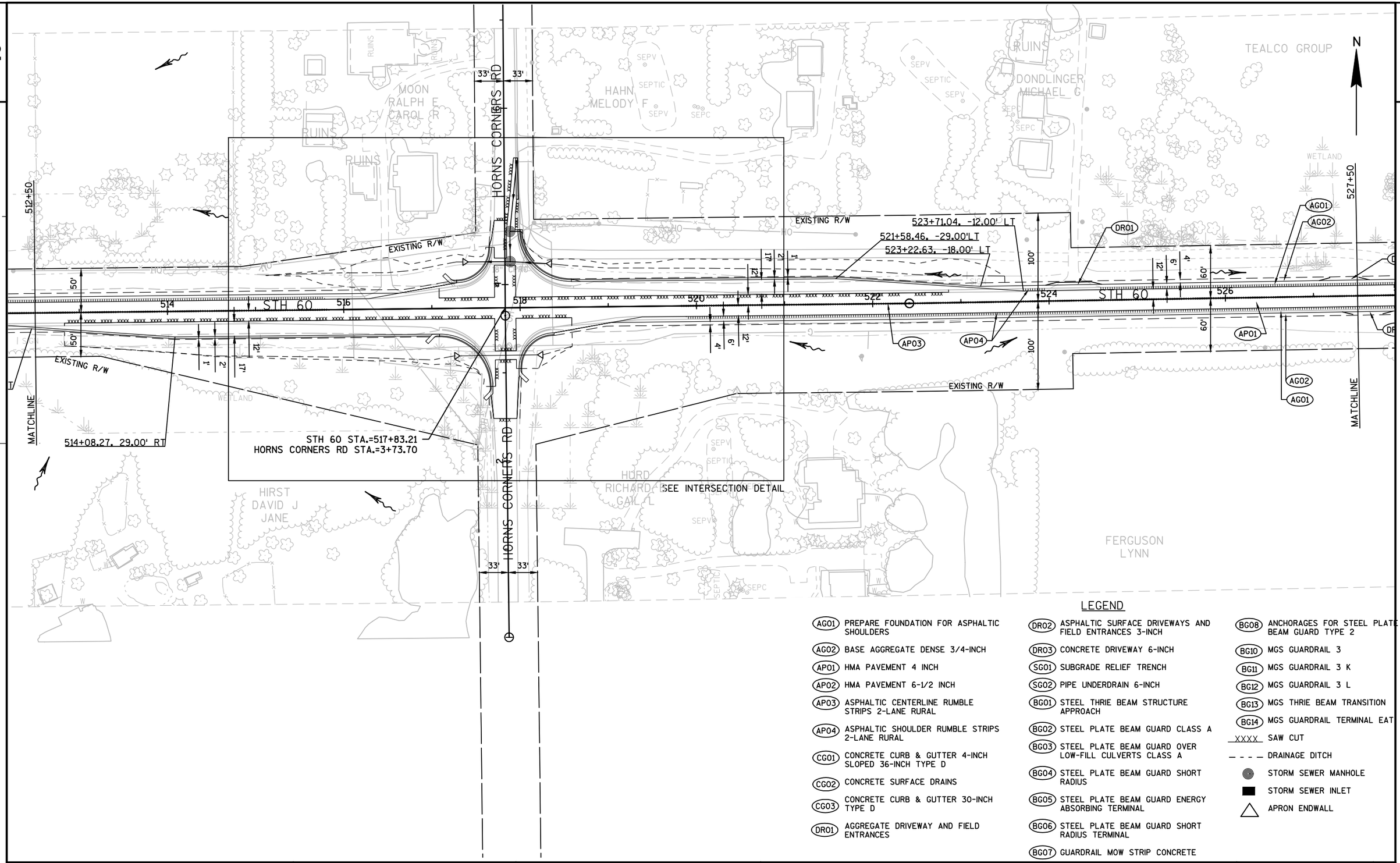
- BG11 MGS GUARDRAIL 3 K
- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 76	E



LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT 4 INCH
- AP02 HMA PAVEMENT 6-1/2 INCH
- AP03 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- AP04 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG02 CONCRETE SURFACE DRAINS
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE D
- DR01 AGGREGATE DRIVEWAY AND FIELD ENTRANCES
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3-INCH
- DR03 CONCRETE DRIVEWAY 6-INCH
- SG01 SUBGRADE RELIEF TRENCH
- SG02 PIPE UNDERDRAIN 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
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- BG12 MGS GUARDRAIL 3 L
- BG13 MGS THRIE BEAM TRANSITION
- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 77	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021201-PD.DWG
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PLOT DATE : 4/27/2018 11:30 AM
PLOT BY : MATT ROESCH
PLOT NAME :
PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42

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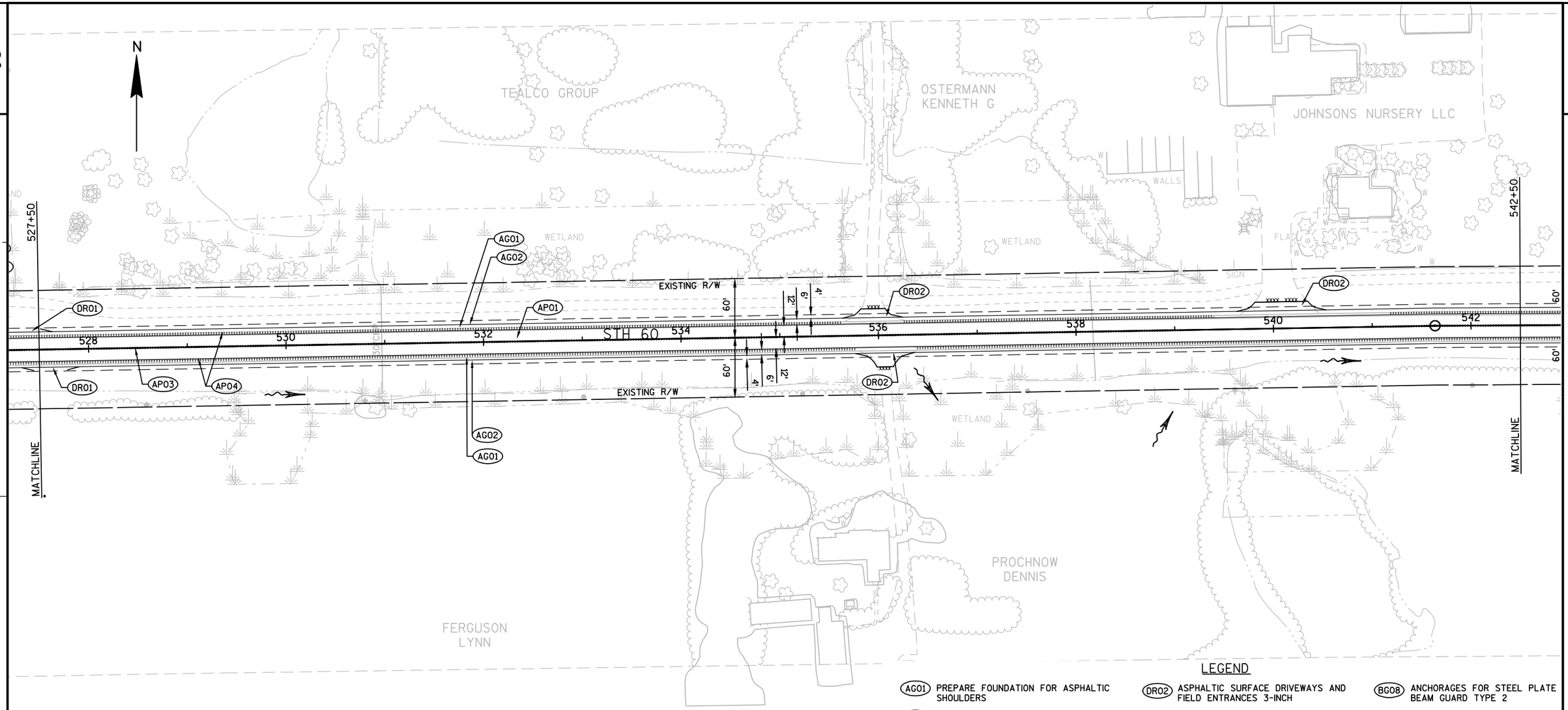

LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
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- BG14 MGS GUARDRAIL TERMINAL EAT
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 78	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021201-PD - 0212024
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WISDOT/CADDS SHEET 42

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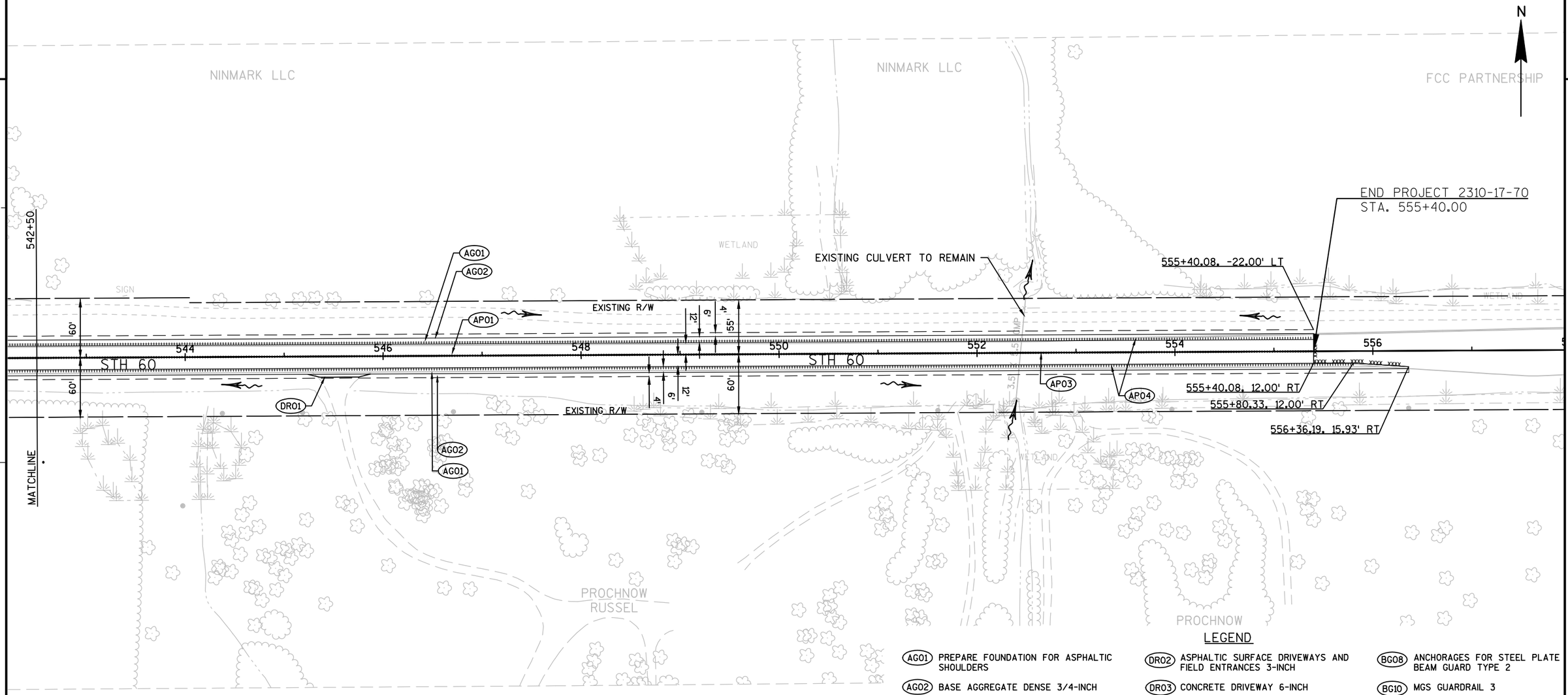

LEGEND

- AG01 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- AG02 BASE AGGREGATE DENSE 3/4-INCH
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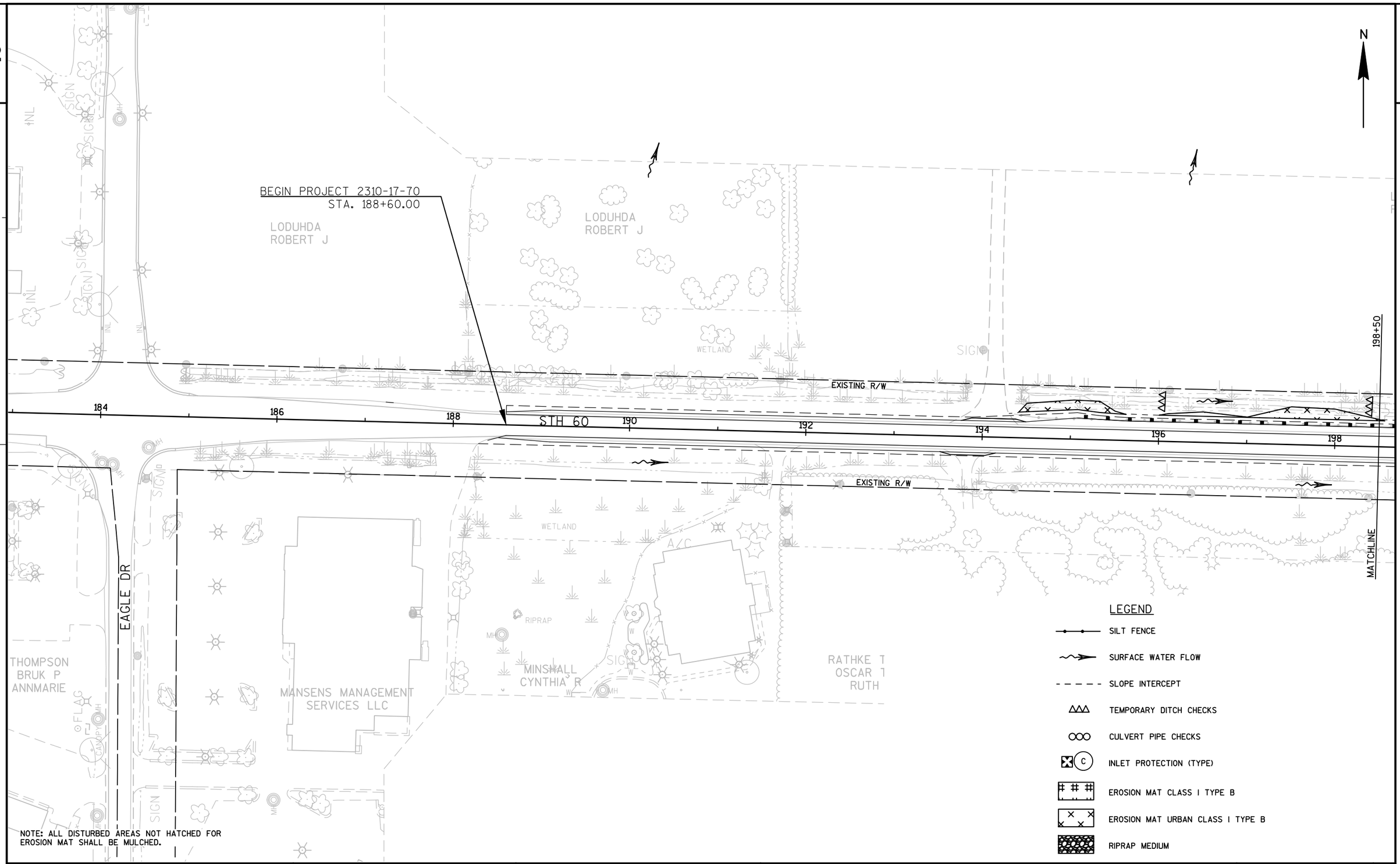
- XXXX SAW CUT
- DRAINAGE DITCH
- STORM SEWER MANHOLE
- STORM SEWER INLET
- APRON ENDWALL

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PLAN DETAILS	SCALE, FEET 0 50 100	SHEET 79	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021201-PD - 0212025
PLOT DATE : 4/26/2018 3:39 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42



NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 80	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022001

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

2

2

N

LODUHDA
ROBERT J

LODUHDA
ROBERT J AND
ANDREA

GOLL
JOHN A
DEBR.

198+50

213+50

PROP. R/W

TLE

STRUCTURE B-66-0092

EXISTING R/W

WETLAND

200 STH 60 202 204 206 STH 60 208 210 212

CEDAR CR

HO

OH

MATCHLINE

MAPLE RD

RATHKE TRUST
OSCAR T JR
RUTH H

TRUST
RATHKE FAMILY

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR
EROSION MAT SHALL BE MULCHED.

LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE) (C)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 81	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022002

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

2

N

GOLL
JOHN A AND
DEBRA

HESS
ANDREW

GOLL
JOHN A AND
DEBRA

GOLL
JOHN A AND
DEBRA

EICKSTEDT
RONALD W

EICKSTEDT
RONALD W

LINDLOFF
DANIEL P AND
KATHLEEN M

213+50

228+50

/W

EXISTING R/W

214 216 218 220 222 224 STH 60 226 228

EXISTING R/W

MATCHLINE

MATCHLINE

WETLAND

MILY

ENGELBRECHT
JANICE

ENGELBRECHT
JANICE

LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE) (C)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR
EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 82	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022003

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

2

N

NDLOFF
EL P AND
HLEEN M

HELLER
MICHAEL L

EHLKE
HAROLD N

POOL

KANNENBERG
RONALD AND
DOREEN

JACKSON MARSH

LYON
RODNEY AND
LYNNE

JACKSON MARSH

228+50

MH

WETLAND

EXISTING STRUCTURE
C-66-0031

EXISTING R/W

230 232 234 STH 60 236 238 240 242 STH 60

243+50

EXISTING R/W

SIGN

WETLAND

MATCHLINE

MATCHLINE

UNNAMED TRIBUTARY

RT
ON
L

HANKE
JAMES M

GILBERT
GORDON
ANN L

GILBERT
GORDON
ANN L

LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE) (C)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 83	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022004

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

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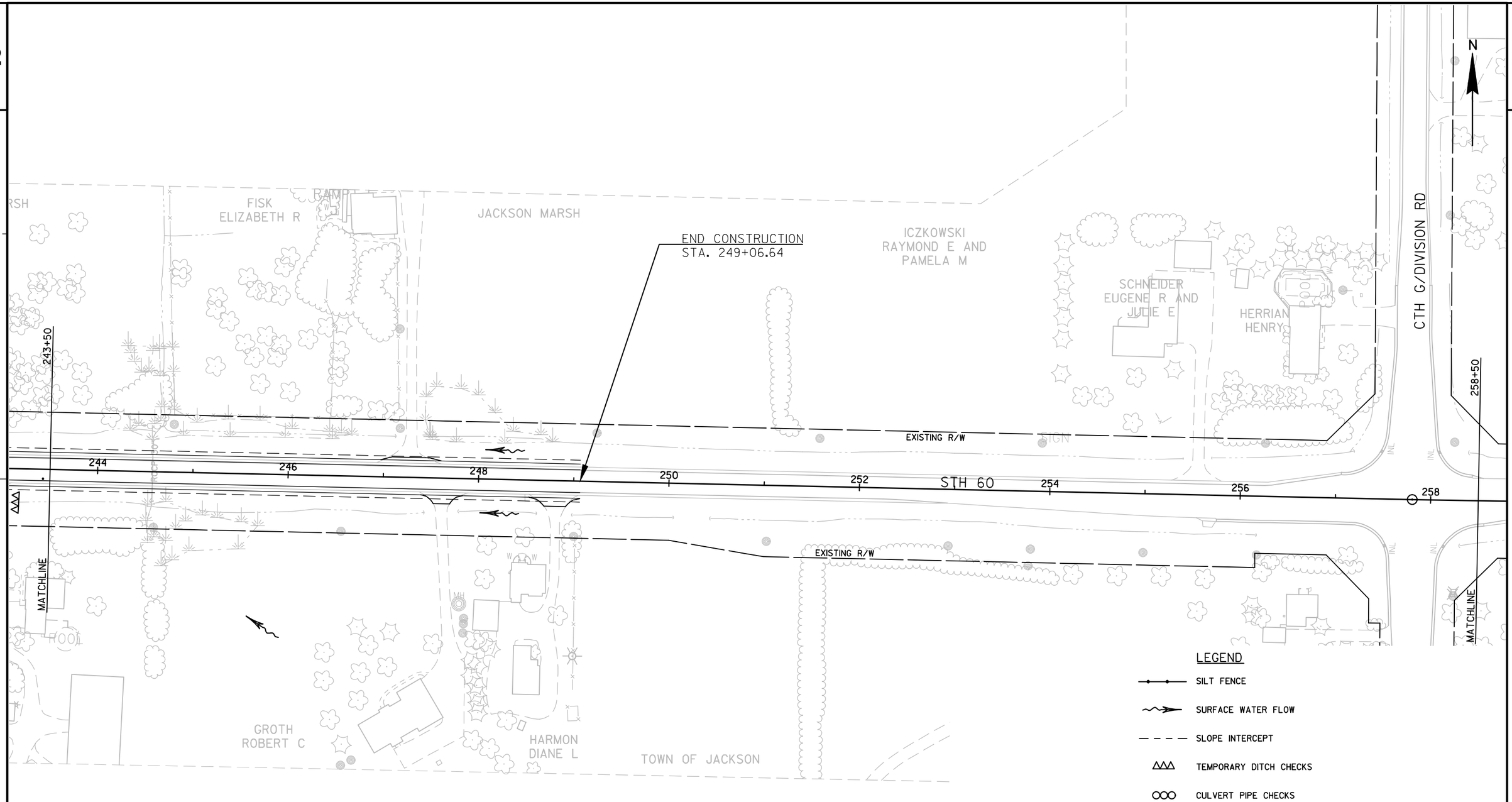

LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 84	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022005
PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42

2

2

N

GOLL
GARY L AND
MARILYN L

WANKE
SCOTT D

SCHMELZER REVOCABLE
CHRYSTA M

BEGIN CONSTRUCTION
STA. 266+77.81

258+50

273+50

SIGN

EXISTING R/W

260 262 STH. 60 264 266 268 270 STH 60 272

EXISTING R/W

MATCHLINE

MATCHLINE

JOHNSON LN

WYDERKA
STEVEN K
ANDREW J

WYDERKA
STEVEN K
ANDREW J

EICKSTEDT
RONALD W
LINDA J

GILBERT
GORDON
ANN L

GREIFENHAGEN
GARY K
KIMBERLY A

MCLELLAN
CALLAN

BUBLITZ
STEVEN

FLAG

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE) (C)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 85	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022006

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

2

2

N

OCABLE
M

MALNORY
THOMAS H

CHEELY
JOYCE L AND
BURL L

GOLL
GARY L AND
MARILYN L

TISCHER
DENNIS R

C AND H
PROPERTY LLC

TISCHER
DENNIS R AND
ELFREDIA

273+50

288+50

SIKORSKI
PAUL

WALLS

RIPRAP

RIPRAP

EXISTING R/W

274

276

278

STH 60

280

282

284

286

STH 60

288

SIGN

EXISTING R/W

EXISTIN

MATCHLINE

MATCHLINE

TLE

CENTER RD

SEPV

SEPC

SEPC

SEPV

BELLANTE
SALVATORE
JACQUELINE L

CORNE
DONAL
DOLOR

KOWALSKE
ELMER
DIANE

LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE) (C)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 86	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022007

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

TISCHER
DENNIS R AND
ELFREDIA

BAESEMAN
DOLORES

VAN RYZIN
RONALD J AND
DONNA J

SMITH
CHESTER R AND
RALPH P

PEPLINSKI
EUGENE M

IRREVOCABLE TRUST
WILLIS A FICK

IRREVOCABLE TRUST
WILLIS A FICK

N

288+50

303+50

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

288 290 292 294 296 STH 60 298 300 302 STH 60

MATCHLINE

MATCHLINE

SUMMER DR

SUMMER DR

LUSAN DR

RAMP

SIGN

SIGN

SIGN

PAROHIM
DENNIS B

POOL

SINDICIC
JAMES N
JENNIFER L

LEWANDOWSKI
JEFFREY A

CORNETTE
DONALD
DOLORES

MANIACI
LORI J

WEIS REV TRUST
WALLIE A
BETTY J

LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE) (C)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 87	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022008

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

2

N

IRREVOCABLE TRUST
WILLIS A FICK

PECHER
RICHARD A AND
MARGARET A

PECHER
RICHARD A A
MARGARET

303+50

318+50

STH 60

304

306

308

310

312

314

316

318

EXISTING R/W

EXISTING R/W

EXISTING R/W

MATCHLINE

MATCHLINE

PROP. R/W

CHURCH DR

WETLAND

SCHOUVILLER
DAVID MISKE
DOLORES

RUCK
MICHAEL A
KATHERINE E

SEPV

HO

G

T

W

LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE) (C)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 88	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022009

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

2

N

RAMP

CHRISTIANSON
THOMAS L

STREAM

MINOR'S GARDEN
CENTER INC

318+50

333+50

EXISTING CULVERT TO REMAIN

EXISTING CULVERT TO REMAIN

EXISTING R/W

320 322 324 326 STH 60 328 330 332 STH 60

EXISTING R/W

MATCHLINE

MATCHLINE

WETLAND

WETLAND

WETLAND

WETLAND

HEIMKIN LLC

HEIMKIN LLC

TRUST
NORDBECK
INCOME

BUBLITZ TRUST
LAVERNE F
BEVERLY A

SCHOOLHOUSE

LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE) (C)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 89	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022010

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

2

N

MINOR'S GARDEN
CENTER INC

MINOR'S GARDEN
CENTER INC

BOEHLKE
DELBERT W
JEAN S

BOEHLKE
BOTTLE GAS CORP

333+50

348+50

EXISTING R/W

EXISTING R/W

I 60

334

336

338

340

342

344

346

STH 60

348

NG R/W

EXISTING R/W

MATCHLINE

MATCHLINE

FLAG

WETLAND

ITZ TRUST
VERNE F
VERLY A

WITTE LIVING TRUST
EDWARD R
MARLENE H

WITTE LIVING T
EDWARD R
MARLENE H

LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE) (C)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 90	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022011

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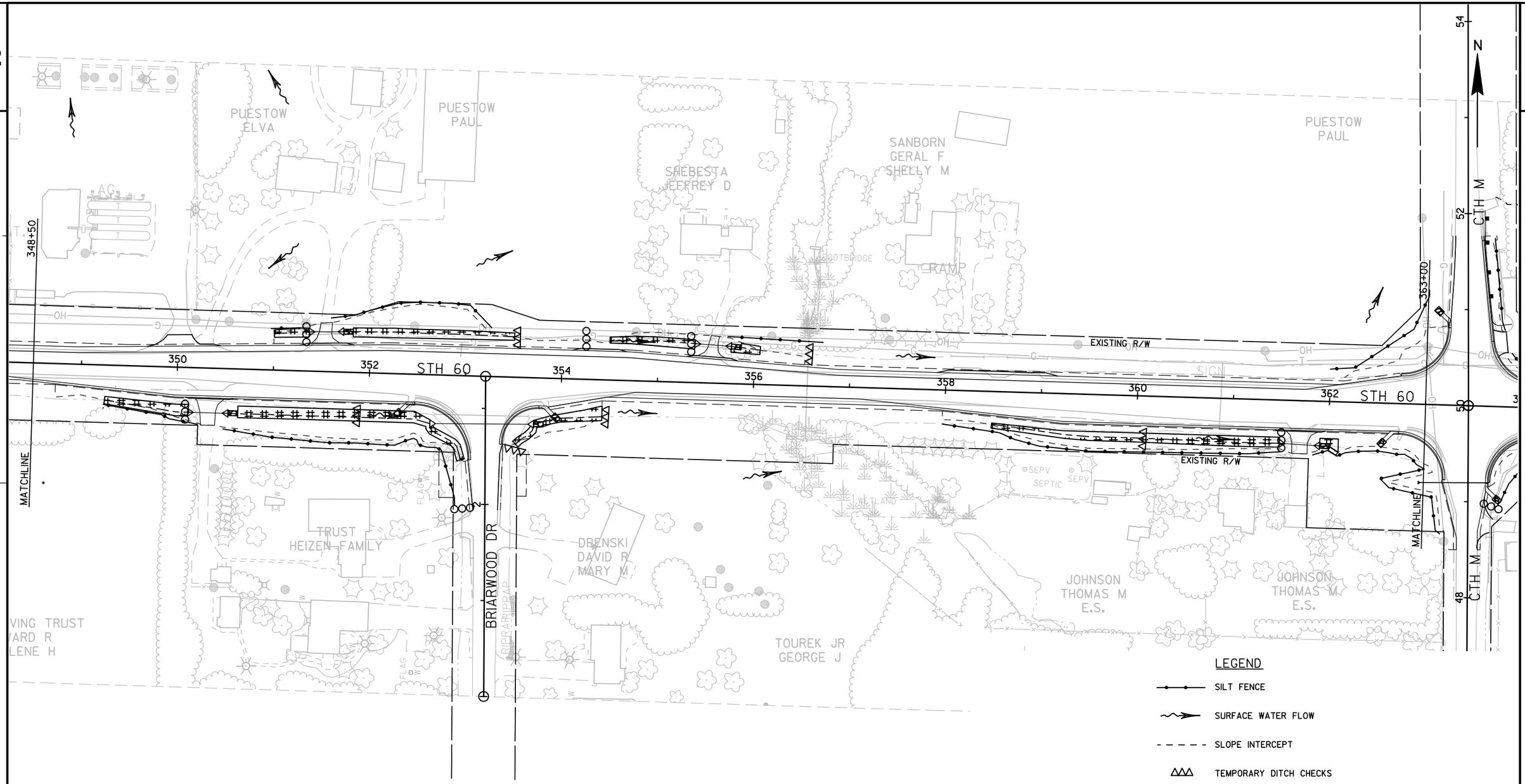
WISDOT/CADDS SHEET 42



LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

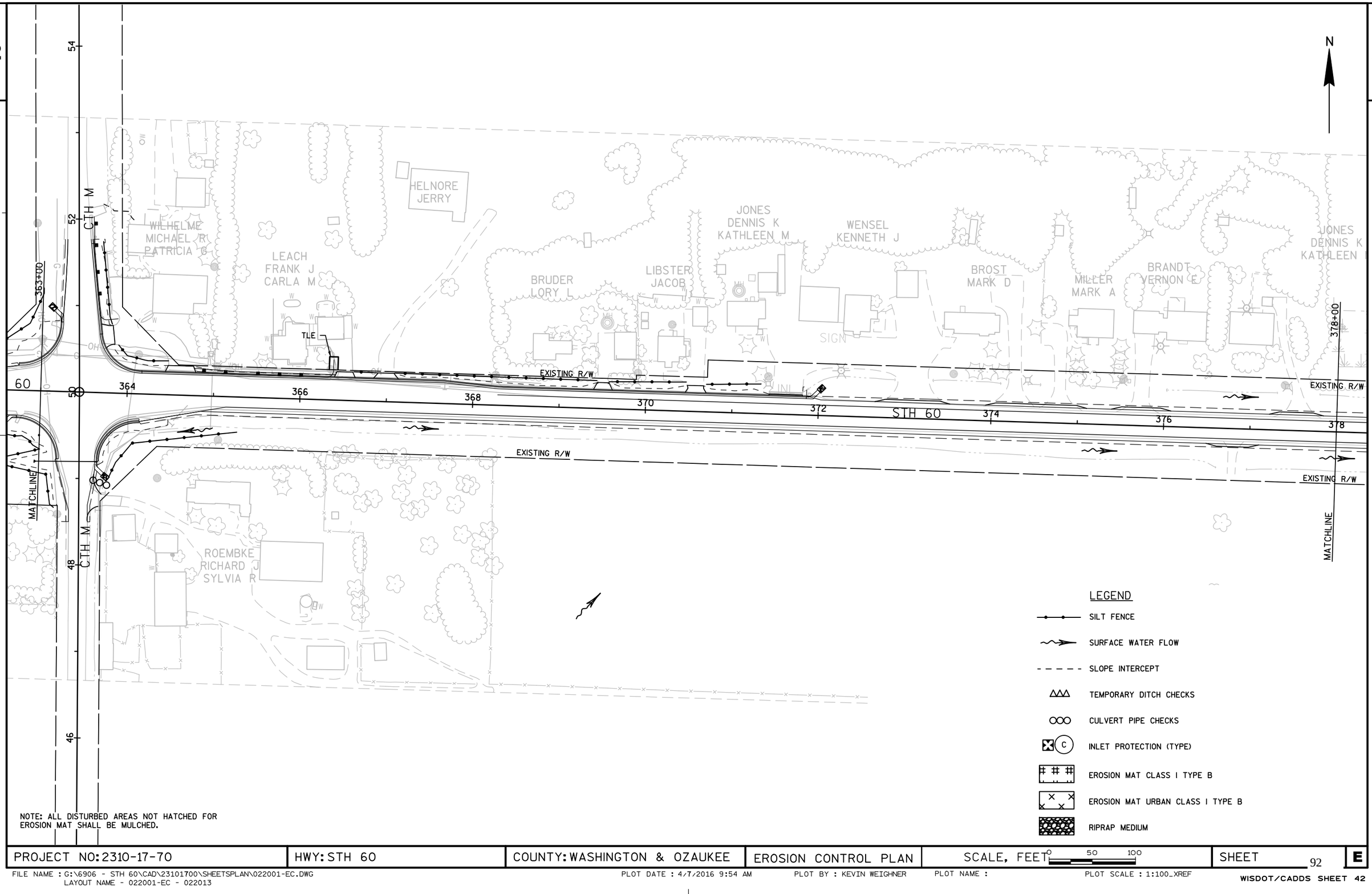
NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 91	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022012

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42



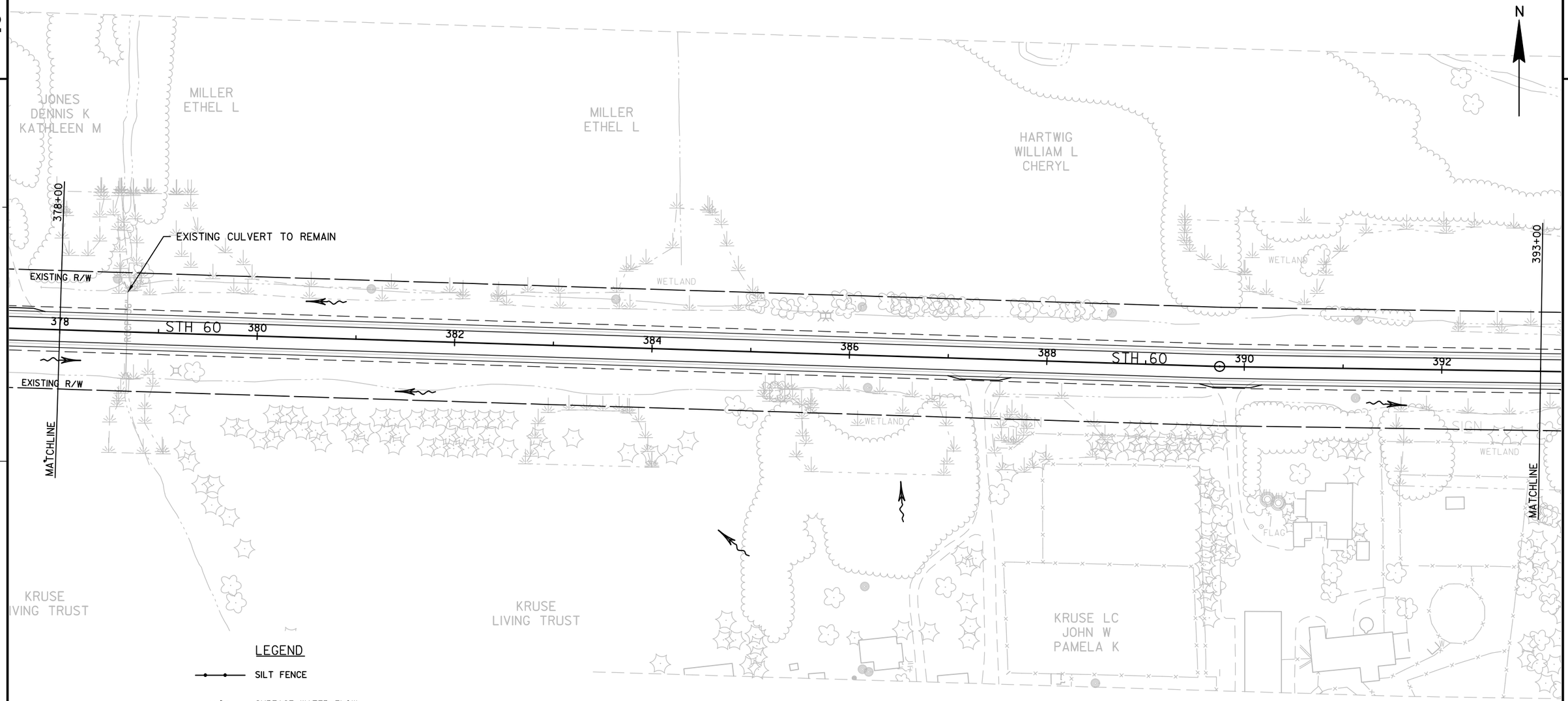
LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE) (C)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 92	E

2



LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 93	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022014
PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42

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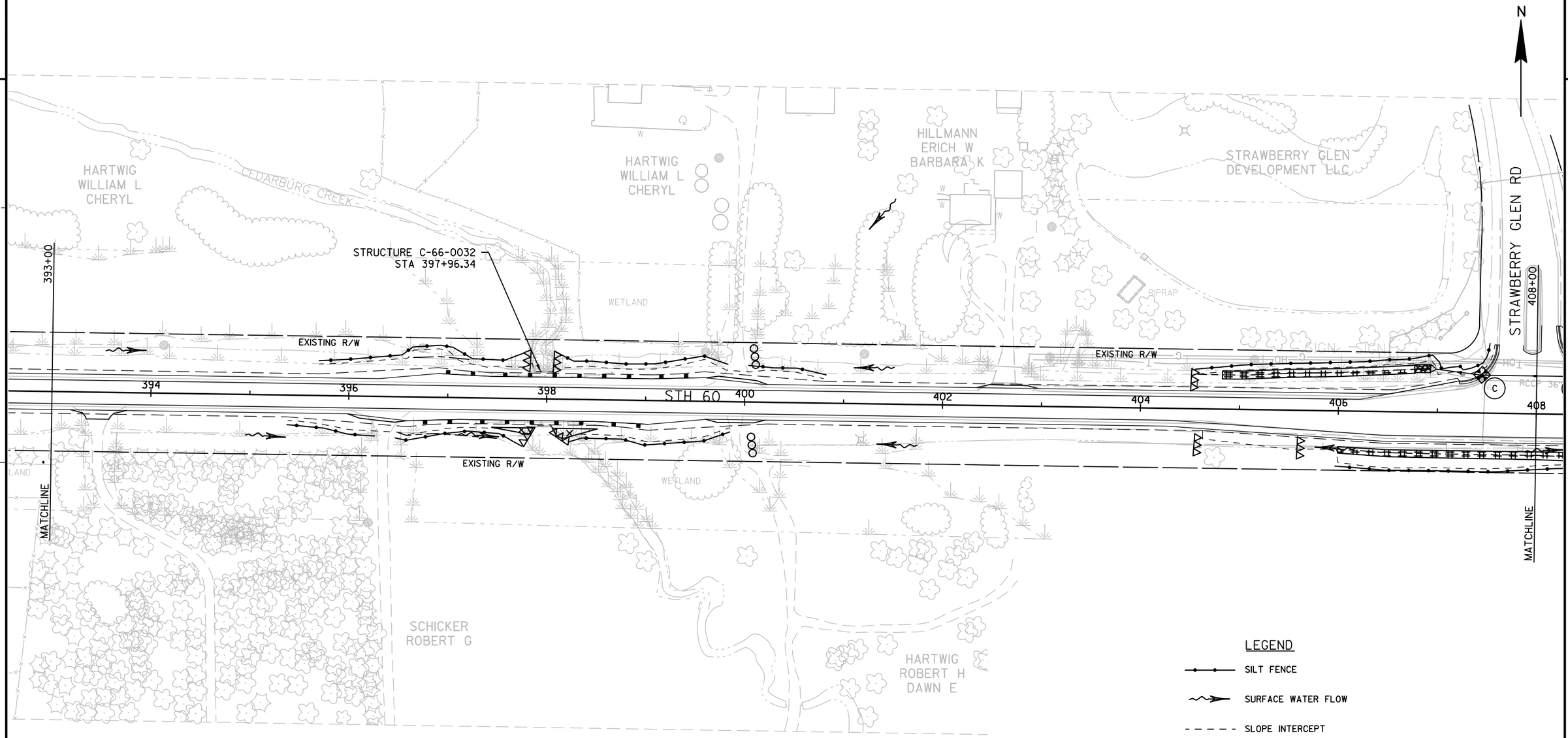


LEGEND

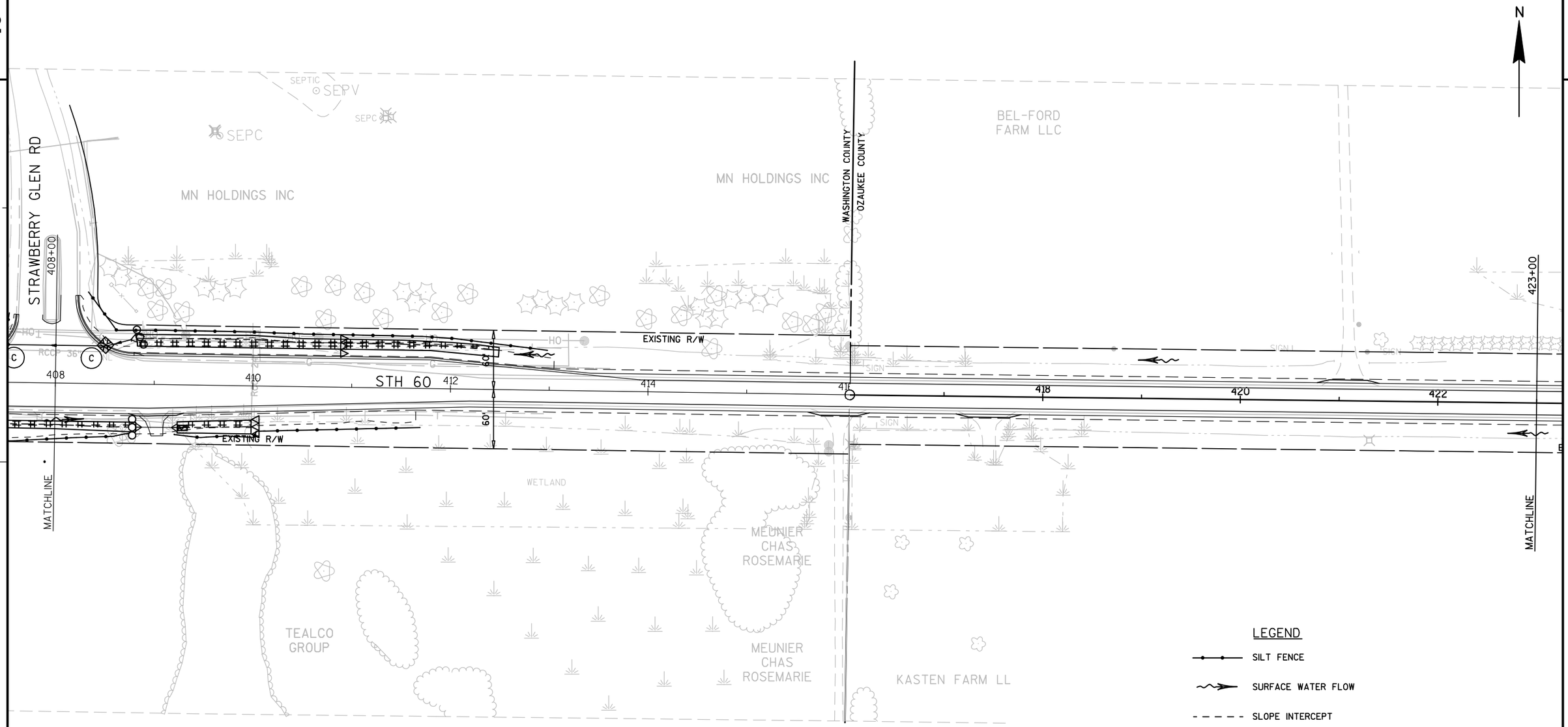
- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 94	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022015
PLOT DATE : 4/7/2016 9:54 AM
PLOT BY : KEVIN WEIGHNER
PLOT NAME :
PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42

2



LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE) (C)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 95	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022016
PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42

2

2

N

TEALCO GROUP

TEALCO GROUP

TEALCO GROUP

423+00

437+50

EXISTING R/W

50'

50'

424 426 STH 60 428 430 432 434 STH 60 436

EXISTING R/W

EXISTING R/W

MATCHLINE

MATCHLINE

BEZELLA
DIANE M

LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE) (C)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 96	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022017

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

2

N

GROUP

HELNORE
JERRY

HELNORE
JERRY

437+50

452+50

EXISTING R/W

438 440 442 STH 60 444 446 448 450 452

50'

50'

24"CMP

TLE

TLE

EXISTING R/W

MATCHLINE

ELM DR

MATCHLINE

SEPV

SEPTIC

SEPV

ZIMMERSCHIED
GREGORY W

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE) (C)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 97	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022018

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

2

N

BUBLITZ
BETTY

BUBLITZ
BETTY

LAGAN
CHRISTINE

CTH 'Y'/GRANVILLE RD

452+50

MATCHLINE

END CONSTRUCTION
STA. 456+50.01

EXISTING R/W

454 456 458 460 462 464 466

STH 60

50'

50'

36"CMP

18"CMP

HO

EXISTING R/W

BEGIN I.D. 2310-14-70
STA. 456+50.01

SEPV

SEPTIC

SEPV

SEPC

GOLLNICK
JAMES R
JAMIE D

467+50

MATCHLINE

LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 98	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022019

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

2

N

LAGAN
CHRISTINE

LAGAN
CHRISTINE

LAGAN
CHRISTINE

WURTZ
ROBERT D
DIANE M

SEPTIC

SEPV

467+50

482+50

BEGIN CONSTRUCTION
STA. 473+92.67

EXISTING R/W

50'

50'

468

470

STH 60

472

474

476

478

480

482

STH 60

EXISTING R/W

END I.D. 2310-14-70
STA. 473+92.67

EXISTING CULVERT TO REMAIN

MATCHLINE

MATCHLINE

SLAB

SLAB

GIERACH
ROBERT J

RACH
RT J

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE) (C)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 99	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022020

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

2

N

MILLER
CRAIG L
MICHELE R

FISK
JUSTIN
SARAH M

ROSENBERG
TYLER T
TONYA R

DEUTMEYER
MARY C

SEPTIC

SEPV

482+50

497+50

WETLAND

EXISTING R/W

50'

50'

STH. 60

82

484

486

488

490

492

494

496

EXISTING R/W

MATCHLINE

MATCHLINE

WETLAND

WETLAND

ESSER

OLSON
DAVID W

SANNES
RENEE

MARIEN
DANIEL B
JANETTE R

117 BETH LN

LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE) (C)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 100	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022021

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

2

2

N

EIFLER REVOCABLE TRUST
NORMAN H

SETHI
MOHAMMED K

WETLAND

497+50

512+50

STH 60

498 500 502 504 506 508 510 512

EXISTING R/W

50'

60'

EXISTING CULVERT TO REMAIN

MATCHLINE

WIMMER TRUST

RAMMEL
LILLIAN
HAL G

WALDHART
JONATHAN J

HAISCHER JR
THEODORE E
PATRICIA A

ROSE
DAVID L
MARY M

SCHMIT

SEPTIC

SEPV

SEPC

HO

WALL

LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

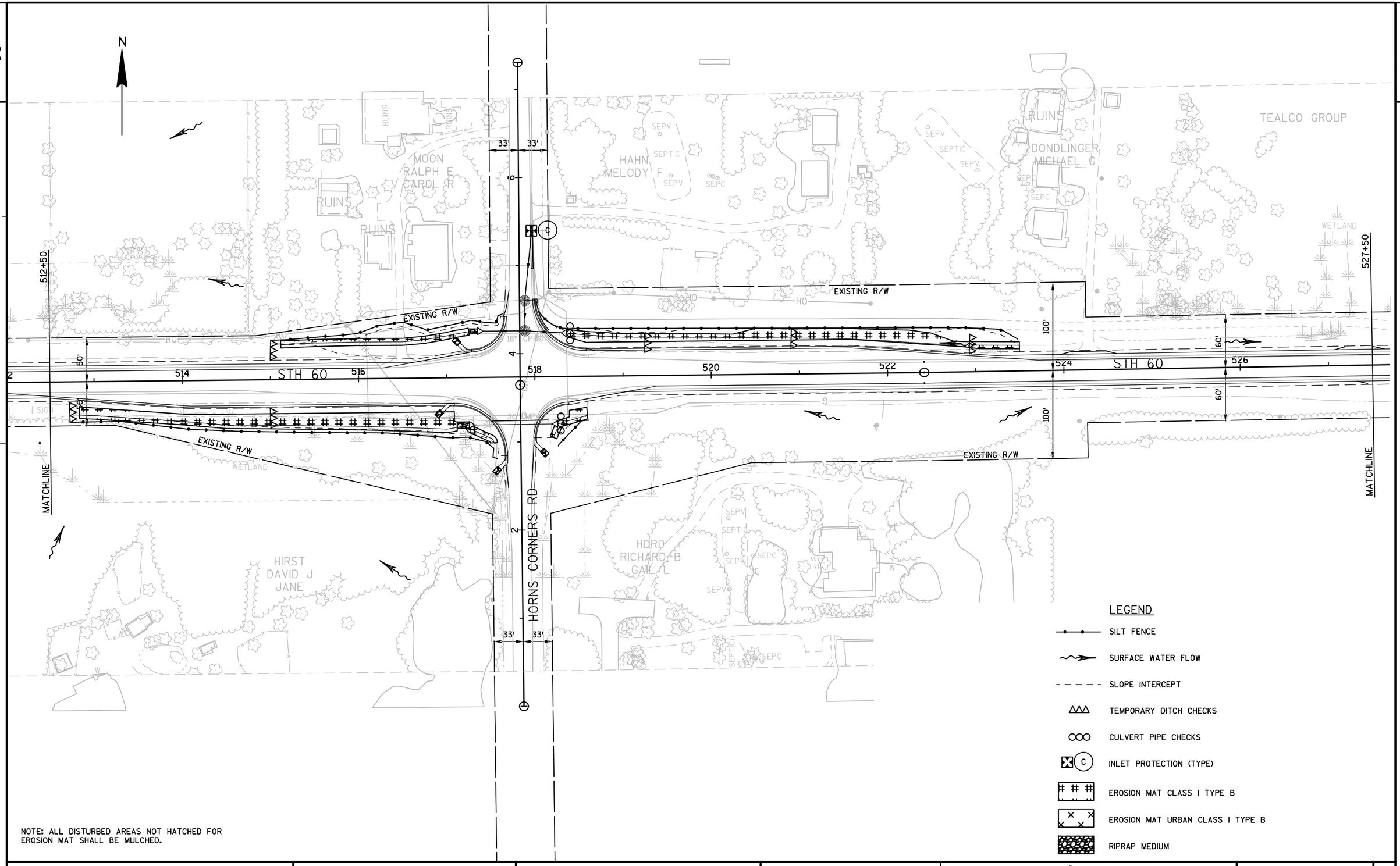
NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 101	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022022

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42



NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 102	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022023
PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42

2

2

N

TEALCO GROUP

OSTERMANN
KENNETH G

JOHNSONS NURSERY LLC

WALLS

WETLAND

WETLAND

WETLAND

FLAG

SIGN

527+50

542+50

EXISTING R/W

60'

60'

60'

EXISTING R/W

528 530 532 534 536 538 540 542

STH 60

ROCK

MATCHLINE

MATCHLINE

PROCHNOW
DENNIS

LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE) (C)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 103	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022024

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

2

N

NINMARK LLC

NINMARK LLC

FCC PARTNERSHIP

END PROJECT 2310-17-70
STA. 555+40.00

542+50

WETLAND

EXISTING CULVERT TO REMAIN

SIGN

EXISTING R/W

60'

55'

544 546 548 550 552 554 556

STH 60

STH 60

60'

60'

3.5% 3.5% DIP

EXISTING R/W

MATCHLINE

WETLAND

PROCHNOW
RUSSEL

PROCHNOW
MARVIN

LEGEND

- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- INLET PROTECTION (TYPE) (C)
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- RIPRAP MEDIUM

NOTE: ALL DISTURBED AREAS NOT HATCHED FOR EROSION MAT SHALL BE MULCHED.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	EROSION CONTROL PLAN	SCALE, FEET 0 50 100	SHEET 104	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-EC - 022025

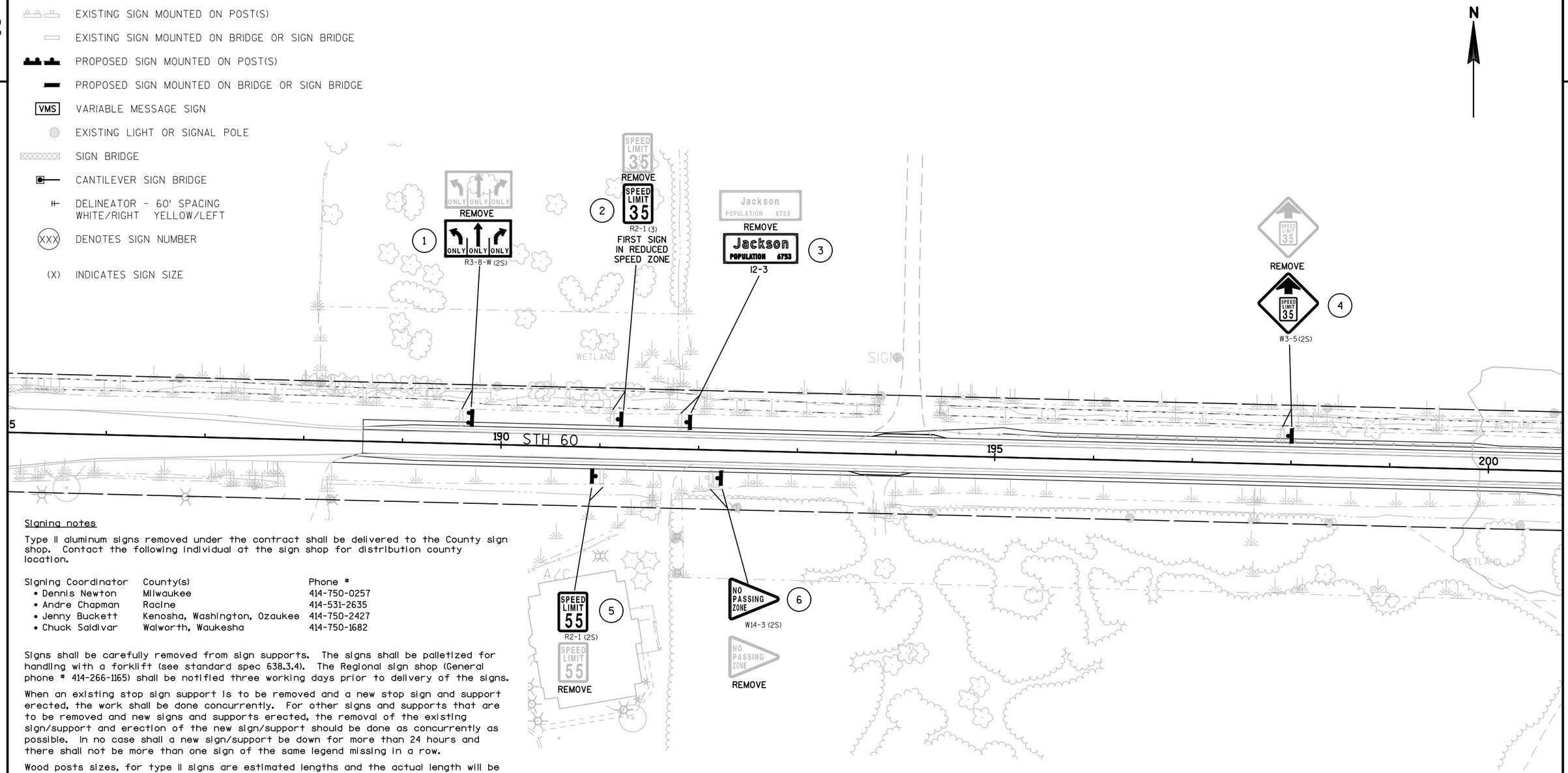
PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE



Signing notes

Type II aluminum signs removed under the contract shall be delivered to the County sign shop. Contact the following individual at the sign shop for distribution county location.

Signing Coordinator	County(s)	Phone #
• Dennis Newton	Milwaukee	414-750-0257
• Andre Chapman	Racine	414-531-2635
• Jenny Buckett	Kenosha, Washington, Ozaukee	414-750-2427
• Chuck Saldivar	Walworth, Waukesha	414-750-1682

Signs shall be carefully removed from sign supports. The signs shall be palletized for handling with a forklift (see standard spec 638.3.4). The Regional sign shop (General phone # 414-266-1165) shall be notified three working days prior to delivery of the signs.

When an existing stop sign 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.

Wood posts sizes, for type II signs are estimated lengths and the actual length will be determined in the field.

Street name signs are property of the municipality (city, village or town). The municipality shall be contacted to remove their street name signs prior to construction and it is their responsibility to reinstall the old signs or replace them following construction. WisDOT does not furnish or install street name signs. The street name signs shall not be placed on top of the STOP signs.

Locate no passing pennants based on establishing no passing zones pay item. Place signs based on where the pavement marking for no passing zones begin

SHEET 1 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 105	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023201_PS_REV.DWG
LAYOUT NAME - 023201_PS

PLOT DATE : 1/17/2018 9:27 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

7 W5-52L (2S) 4' MOUNT HEIGHT

8 REMOVE W5-52R (2S) 4' MOUNT HEIGHT

9 REMOVE W1-7 (2S)

130 ADOPT A HIGHWAY SPONSOR KNIGHTS OF COLUMBUS ST PETERS I55-56 MOVE

10 W5-52R (2S) 4' MOUNT HEIGHT

REMOVE

11 W5-52L (2S) 4' MOUNT HEIGHT

REMOVE

12 STOP R1-1 (2S)

STOP REMOVE

13 ADOPT A HIGHWAY SPONSOR Students From Kettle Moraine Lutheran HS I55-56 MOVE

PI: 204+99.31

EP: 6+95.26

STH 60

MAPLE RD

CEDAR CR

WETLAND

200 205 210 215

N

SHEET 2 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 106 E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023201_PS_REV.DWG
LAYOUT NAME - 023202_PS

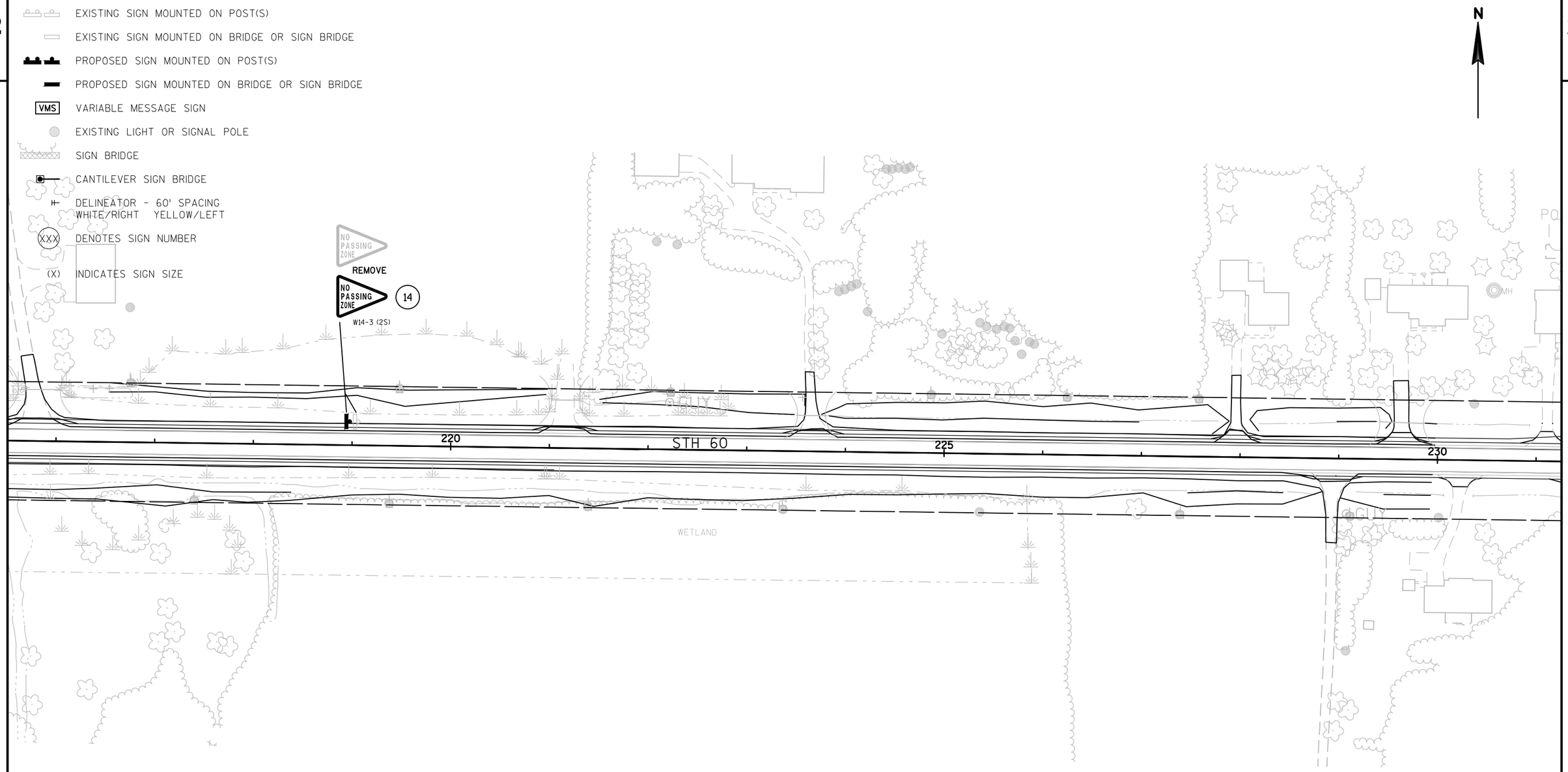
PLOT DATE : 1/17/2018 9:27 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING
  WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE



2

SHEET 3 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 107	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023201_PS_REV.DWG
LAYOUT NAME - 023203_PS

PLOT DATE : 1/17/2018 9:27 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

PI: 231+34.23

WETLAND

235 STH 60 240 245

SIGN

WETLAND

NO PASSING ZONE 15
W14-3 (2S)

NO PASSING ZONE
REMOVE

NO PASSING ZONE
REMOVE

NO PASSING ZONE 20
W14-3 (2S)

JCT COUNTY G 16
J1-1 (2S)

JCT COUNTY G
REMOVE

17
W2-6 (2S)

15 M.P.H. 18
W13-1 (2S)

ROUNDABOUT AHEAD
15 M.P.H.
REMOVE

19
60 EAST
NORTH G SOUTH G
D1-62 (SIZE 2)
TYPE II ON
STEEL POSTS

EAST 60
NORTH G SOUTH G
REMOVE

SHEET 4 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 108	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023201_PS_REV.DWG
LAYOUT NAME - 023204_PS

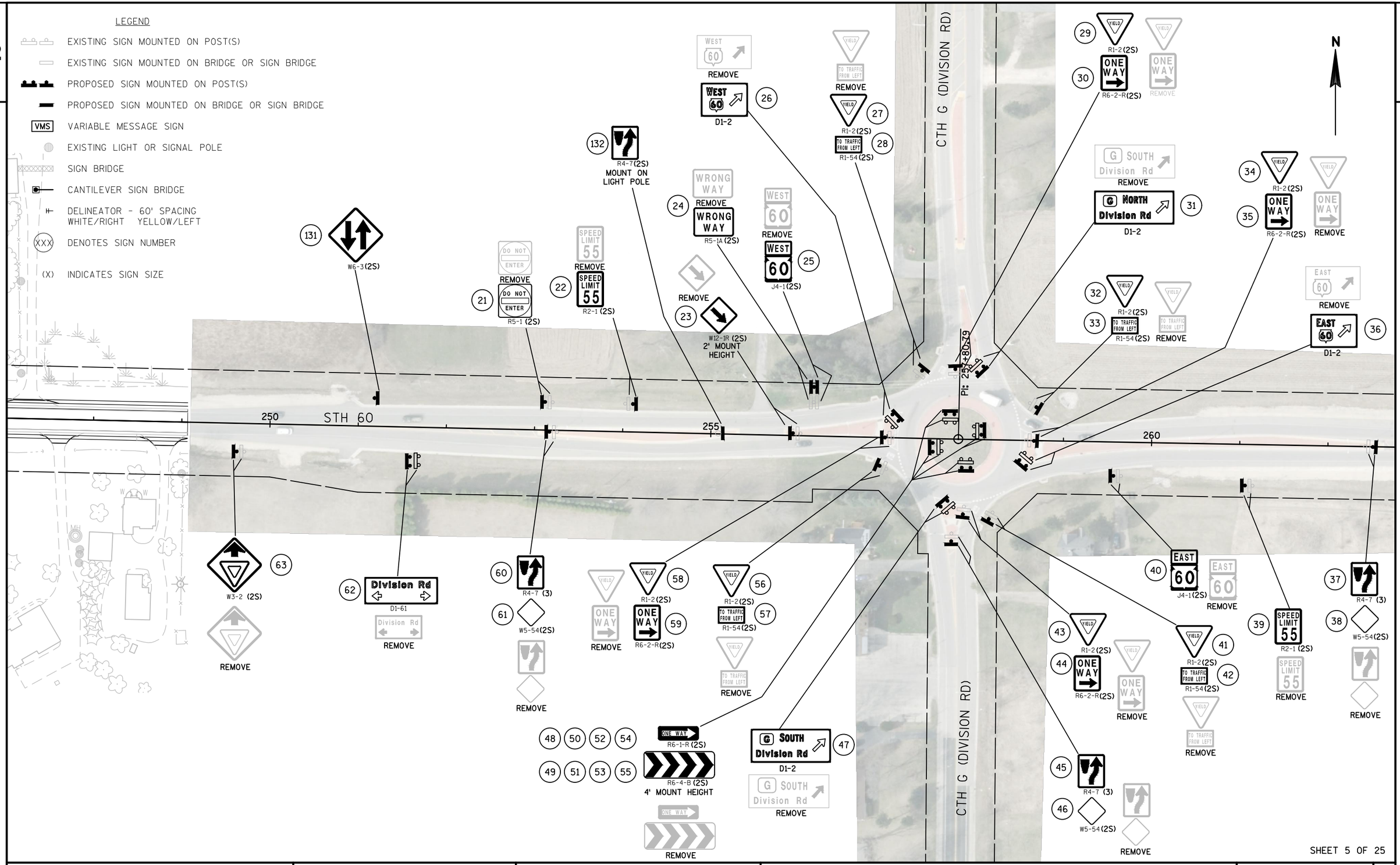
PLOT DATE : 1/17/2018 9:27 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE



SHEET 5 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 109	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023201_PS_REV.DWG
LAYOUT NAME - 023205_PS

PLOT DATE : 1/17/2018 9:27 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

REMOVE
Division Rd
D1-61
64

REMOVE
65
W3-2 (2S)

REMOVE
WEST 60 / SOUTH G / NORTH G
66
D1-62 (SIZE 2) TYPE II ON STEEL POSTS

REMOVE
ROUNDABOUT AHEAD
15 M.P.H.
67
W2-6 (2S)
W13-1 (2S)

JOHNSON LN (PRIVATE ROAD)

REMOVE
JCT COUNTY G
68
J1-1 (2S)

265
STH 60
270
275

PRIVATE ROAD

STOP
ESTR PRIVATE SIGN

SIGN

JOHNSON LN (PRIVATE ROAD)

DO NOT ENTER
69
R5-1 (2S)

REMOVE
DO NOT ENTER

133
W6-3(2S)

SHEET 6 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 110	E

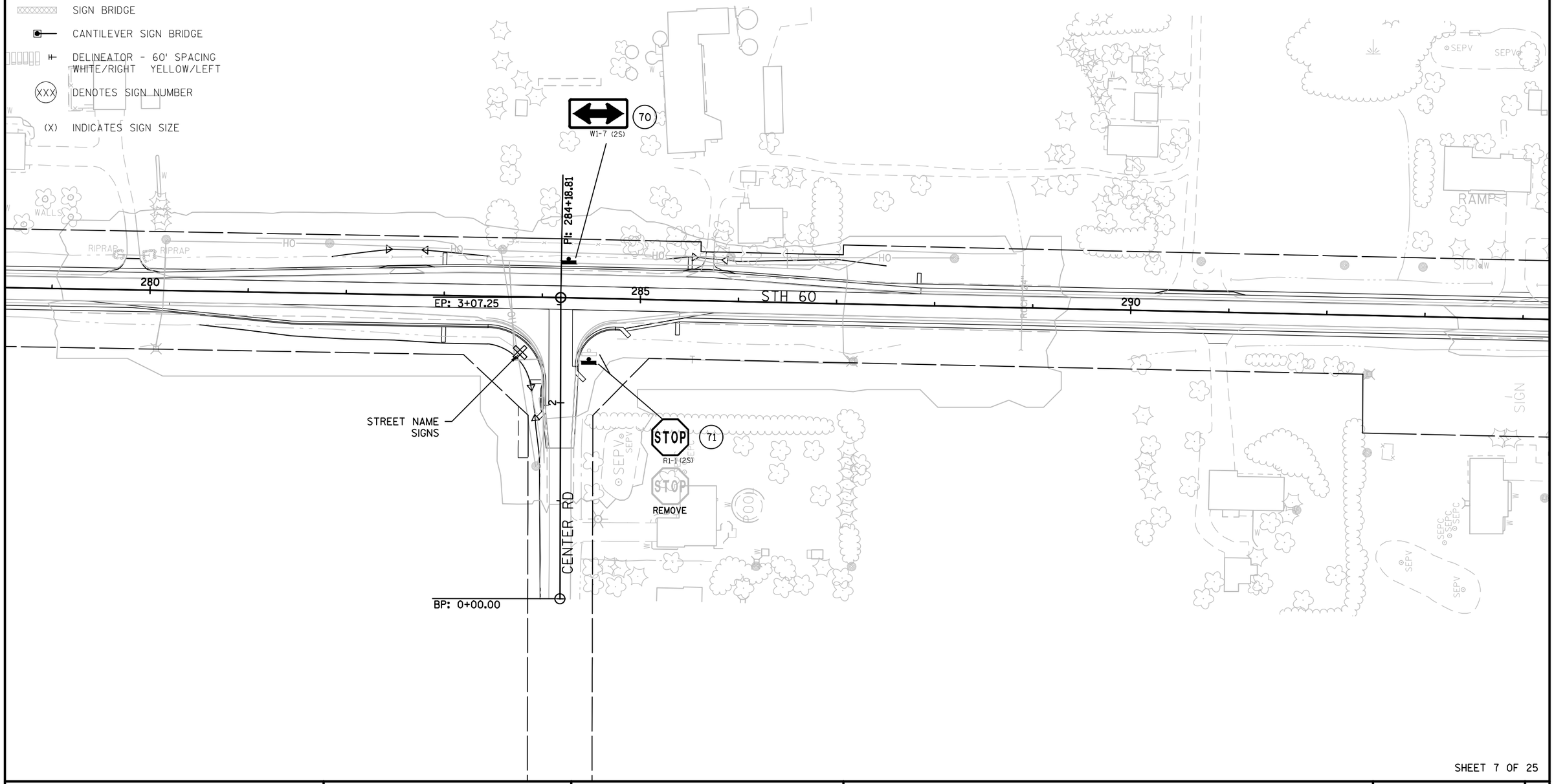
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

2



SHEET 7 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 111	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023201_PS_REV.DWG
LAYOUT NAME - 023207_PS

PLOT DATE : 1/17/2018 9:27 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

75
SPONSOR
Students From Kettle Moraine Lutheran HS
I55-56
MOVE

73
W1-7 (2S)

295
BP: 0+00.00
300
EP: 3+31.43
EP: 3+09.03
STH 60
305
EP: 3+30.02

STREET NAME SIGNS

2
4

LUSAN DR

OFF-ROADWAY OPERATION OF MOTOR VEHICLES PROHIBITED EXCEPT IN EMERGENCY OR AS AUTHORIZED BY MUNI DOT
72
R5-99 (2S)
REMOVE

134
STOP
R1-1 (2S)
STOP
REMOVE

STOP
74
R1-1 (2S)
STOP
REMOVE

BP: 0+00.00

BP: 0+00.00

SHEET 8 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 112 E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023201_PS_REV.DWG
LAYOUT NAME - 023208_PS

PLOT DATE : 1/17/2018 9:27 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

RAMP

SEPV

SEPV

310+51.42

HO

HO

315

STH 60

320

325

WETLAND

WETLAND

WETLAND

CHURCH RD

STOP 76
R1-1 (2S)

STOP
REMOVE

77
SPONSOR
Washington Cty
Equestrian
Club
I55-56
MOVE

STREET NAME
SIGNS

NO
PASSING
ZONE 78
W14-3 (2S)

NO
PASSING
ZONE
REMOVE

SHEET 9 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 113	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023201_PS_REV.DWG
LAYOUT NAME - 023209_PS

PLOT DATE : 1/17/2018 9:27 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

2

NO PASSING ZONE
REMOVE
NO PASSING ZONE
79
W14-3 (2S)

Pk 336+99.67

330 STH 60 335 340

WETLAND
WETLAND
FLAG
FLAG

SHEET 10 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 114	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023201_PS_REV.DWG
LAYOUT NAME - 023210_PS

PLOT DATE : 1/17/2018 9:27 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING
  WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

80
W1-7 (2S)

STH 60

345

350

355

EP: 3+33.34

BP: 0+00.00

STREET NAME SIGNS

BRIARWOOD DR

81
STOP
R1-1 (2S)

REMOVE

82
JCT
COUNTY
M
J1-1 (2S)

REMOVE

WETLAND

FOOTBRIDGE

RIPRAP

SHEET 11 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 115	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023201_PS_REV.DWG
LAYOUT NAME - 023211_PS

PLOT DATE : 1/17/2018 9:28 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

CTH M (COUNTRY AIRE DR)

Pt. 363+44.77

360 365 370

STH 60

RAMP

SIGN

SEPV SEPTIC

WETLAND

83 RIDESHARE INFO CALL 1-800-455-POOL REMOVE D12-2A (2S)

84 60 REMOVE J13-1 (2S)

85 STOP REMOVE R1-1 (2S)

86 COUNTY M REMOVE J13-1 (2S)

SPEED LIMIT 45 ESTR

87 STOP SCHOOL BUS FLASHING RED LIGHTS R59-51 (2S) REMOVE

88 60 J13-1 (2S) REMOVE

89 STOP R1-1 (2S) REMOVE

90 COUNTY M J13-1 (2S) REMOVE

STREET NAME SIGNS

SPEED LIMIT 45 ESTR

CTH M (COUNTRY AIRE DR)

2

SHEET 12 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023201_PS_REV.DWG
LAYOUT NAME - 023212_PS

PLOT DATE : 1/17/2018 9:28 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

JCT COUNTY M
REMOVE

JCT COUNTY M (91)
J1-1 (2S)

375 STH 60 380 385

WETLAND

WETLAND

(92) NO PASSING ZONE
W14-3 (2S)

NO PASSING ZONE
REMOVE

2

SHEET 13 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 117	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023201_PS_REV.DWG
LAYOUT NAME - 023213_PS

PLOT DATE : 1/17/2018 9:28 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

VMS VARIABLE MESSAGE SIGN

EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

CANTILEVER SIGN BRIDGE

DELINEATOR - 60' SPACING
WHITE/RIGHT YELLOW/LEFT

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

PI 389+75.08

390

STH 60

395

400

WETLAND

WETLAND

WETLAND

WETLAND

SIGN

FLAG

NO PASSING ZONE
REMOVE

94
NO PASSING ZONE
W14-3 (2S)

93
W11-6 (2S)
FOLDING SIGN INCIDENTAL

REMOVE

SHEET 14 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 118	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023201_PS_REV.DWG
LAYOUT NAME - 023214_PS

PLOT DATE : 1/17/2018 9:28 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

STOP
REMOVE
STOP
98
R1-1 (2S)

REMOVE
W11-6 (2S)
FOLDING SIGN INCIDENTAL
97

WEST 60
REMOVE
WEST 60
96
J4-1 (2S)

STRAWBERRY GLEN RD

STREET NAME SIGNS
135
R4-7 (2S)

100
I55-56
MOVE

WASHINGTON COUNTY
OZAUKEE COUNTY

EP: 416+04.43

405
410
STH 60
415

EAST 60
95
J4-1 (2S)

EAST 60
REMOVE

99
W1-7 (2S)

SEPTIC
SEPV
SEPC
RIPRAP
SIGN
RCCP 36"
WETLAND

SHEET 15 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 119	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023201_PS_REV.DWG
LAYOUT NAME - 023215_PS

PLOT DATE : 1/17/2018 9:28 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING
  WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

2

Washington Co
REMOVE
Washington Co 101
I2-2

BP: 416+04.43

SIGN
SIGN
SIGN

420 STH 60 425 430

Ozaukee Co 102
I2-2
Ozaukee Co
REMOVE

WASHINGTON COUNTY
OZAUKEE COUNTY

SHEET 16 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 120	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023216_PS_REV.DWG
LAYOUT NAME - 023216_PS

PLOT DATE : 1/17/2018 9:28 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

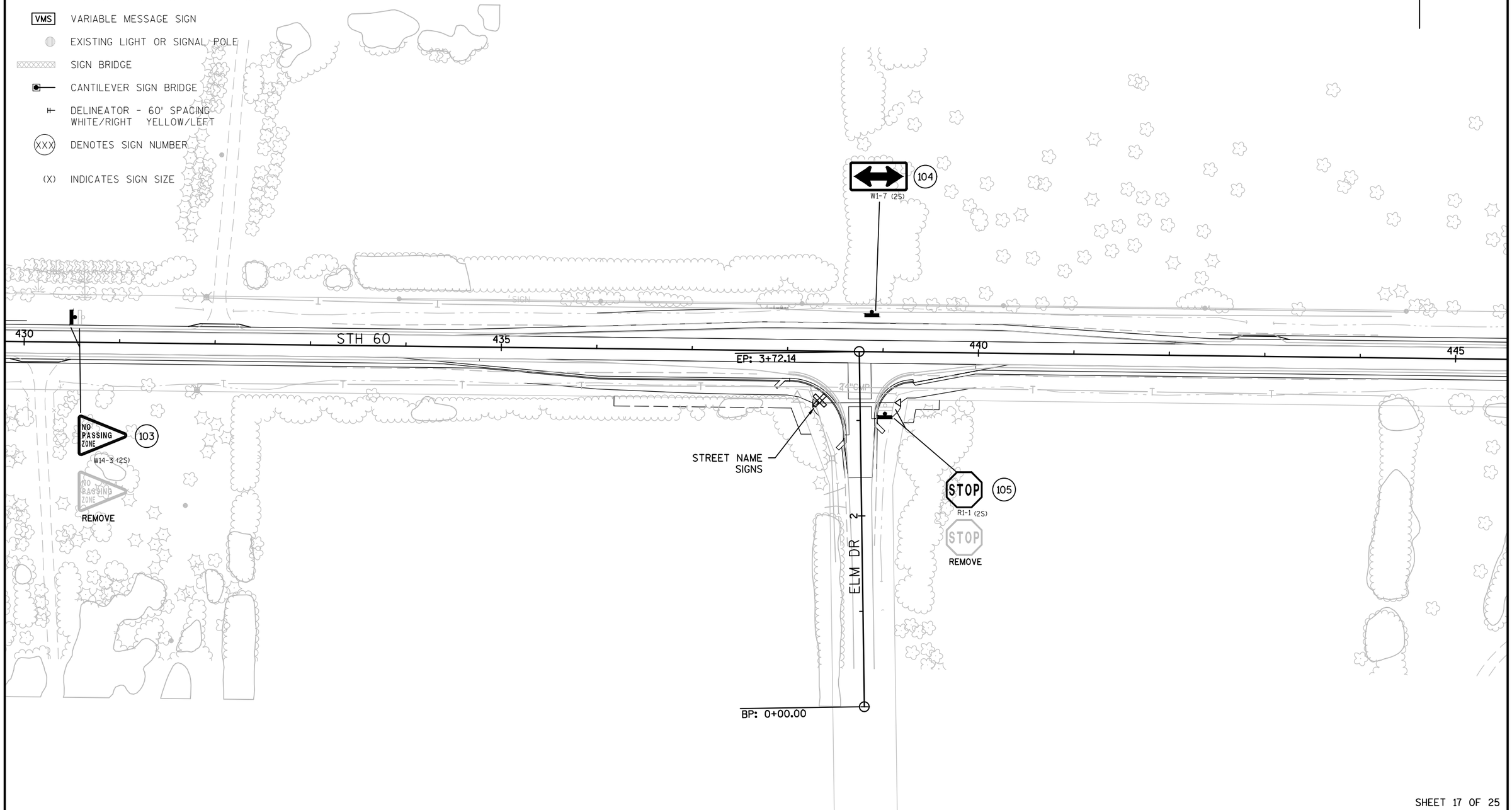
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

2



SHEET 17 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 121	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023216_PS_REV.DWG
LAYOUT NAME - 023217_PS

PLOT DATE : 1/17/2018 9:28 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

2

STOP SCHOOL BUS FLASHING RED LIGHTS
REMOVE

STOP SCHOOL BUS FLASHING RED LIGHTS
136
R59-51(2S)

PROJECT ID 2310-14-70

PI: 446+87.87

445 450 STH 60 455 460

34"CMP

JCT COUNTY Y
106
J1-1 (2S)

JCT COUNTY Y
REMOVE

SEPV SEPTIC SEPV SEPC SEPC SEPC SEPV SEPTIC SEPV SEPC

SHEET 18 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 122	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023216_PS_REV.DWG
LAYOUT NAME - 023218_PS

PLOT DATE : 1/17/2018 9:28 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING
  WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

CTH Y (GRANVILLE RD)

PROJECT ID 2310-14-70

PI: 465+21.34

18" CMP

STH 60

460 465 470 475

107

Granville Rd

REMOVE

CTH Y (GRANVILLE RD)

SHEET 19 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 123	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023216_PS_REV.DWG
LAYOUT NAME - 023219_PS

PLOT DATE : 1/17/2018 9:28 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

VMS VARIABLE MESSAGE SIGN

EXISTING LIGHT OR SIGNAL POLE

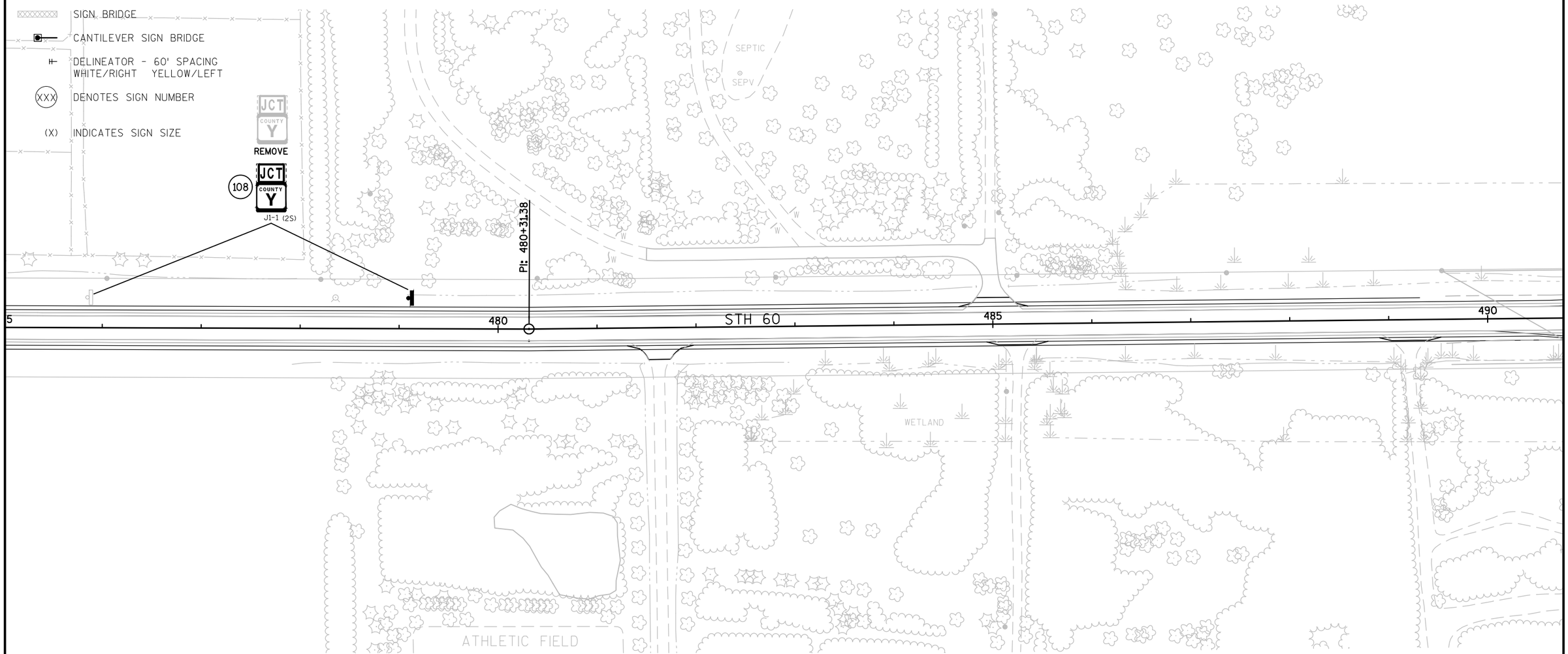
SIGN BRIDGE

CANTILEVER SIGN BRIDGE

DELINEATOR - 60' SPACING
WHITE/RIGHT YELLOW/LEFT

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE



N

2

SHEET 20 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 124	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023216_PS_REV.DWG
LAYOUT NAME - 023220_PS

PLOT DATE : 1/17/2018 9:28 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

109
W1-7 (2S)

110
ADOPT A HIGHWAY
SPONSOR
Ozaukee
Corvette
Club
I55-56
MOVE

NO PASSING ZONE
REMOVE

112
NO PASSING ZONE
W14-3 (2S)

WETLAND

STH 60

495

500

505

EP: 3+71.81

STREET NAME SIGNS

111
STOP
R1-1 (2S)

STOP
REMOVE

LIZBETH LN

BP: 0+00.00

SEPV
SEPC
SEPTIC
WALL

SHEET 21 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 125	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023216_PS_REV.DWG
LAYOUT NAME - 023221_PS

PLOT DATE : 1/17/2018 9:28 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

EP: 7+30.46

PI: 3+64.71

BP: 0+00.00

HORNS CORNERS RD

STH 60

510 515 520

WETLAND

RUINS

SEPV SEPTIC SEPC

SIGN

REMOVE

114 STOP R1-1 (3)

114A TRAFFIC ON 60 DOES NOT STOP W4-4C (3)

115 STOP R1-1 (3)

116 W11-6 (25)

Horns Corners Rd D1-61 113

Horns Corners Rd REMOVE

STREET NAME SIGNS

137 STOP R1-1 (3)

117 STOP R1-1 (3)

117A TRAFFIC ON 60 DOES NOT STOP W4-4C (3)

STOP REMOVE

SHEET 22 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 126 E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023216_PS_REV.DWG
LAYOUT NAME - 023222_PS

PLOT DATE : 1/17/2018 9:29 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

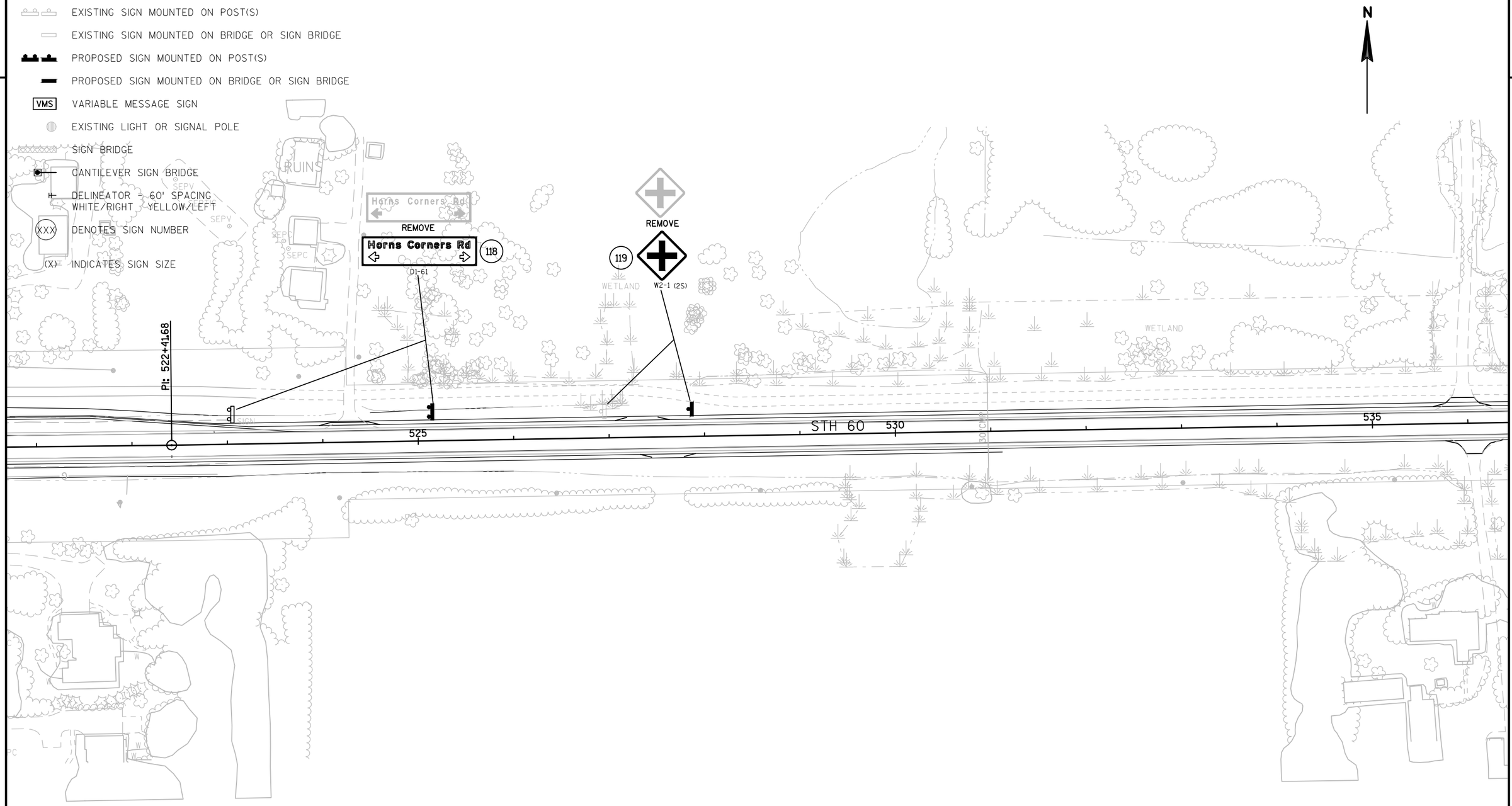
WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE



SHEET 23 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 127	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023216_PS_REV.DWG
LAYOUT NAME - 023223_PS

PLOT DATE : 1/17/2018 9:29 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

WETLAND
WALLS
FLAT
SIGN
WETLAND
WETLAND

PI: 541+63.73

540 STH 60 545 550

122 Jackson 6
Slinger 14
Hartford 19
D2-3

SPEED LIMIT 55
REMOVE

123 SPEED LIMIT 55
R2-1 (2S)

120 SPEED LIMIT 45
W3-5 (2S)

SPEED LIMIT 45
REMOVE

121 WELCOME Redeemer Ev. Lutheran Church —1.6 Miles→
REMOVE ILLEGAL SIGN

124 SPEED LIMIT 45
R2-1 (3)
FIRST SIGN IN REDUCED SPEED ZONE

SPEED LIMIT 45
REMOVE

SHEET 24 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 128	E

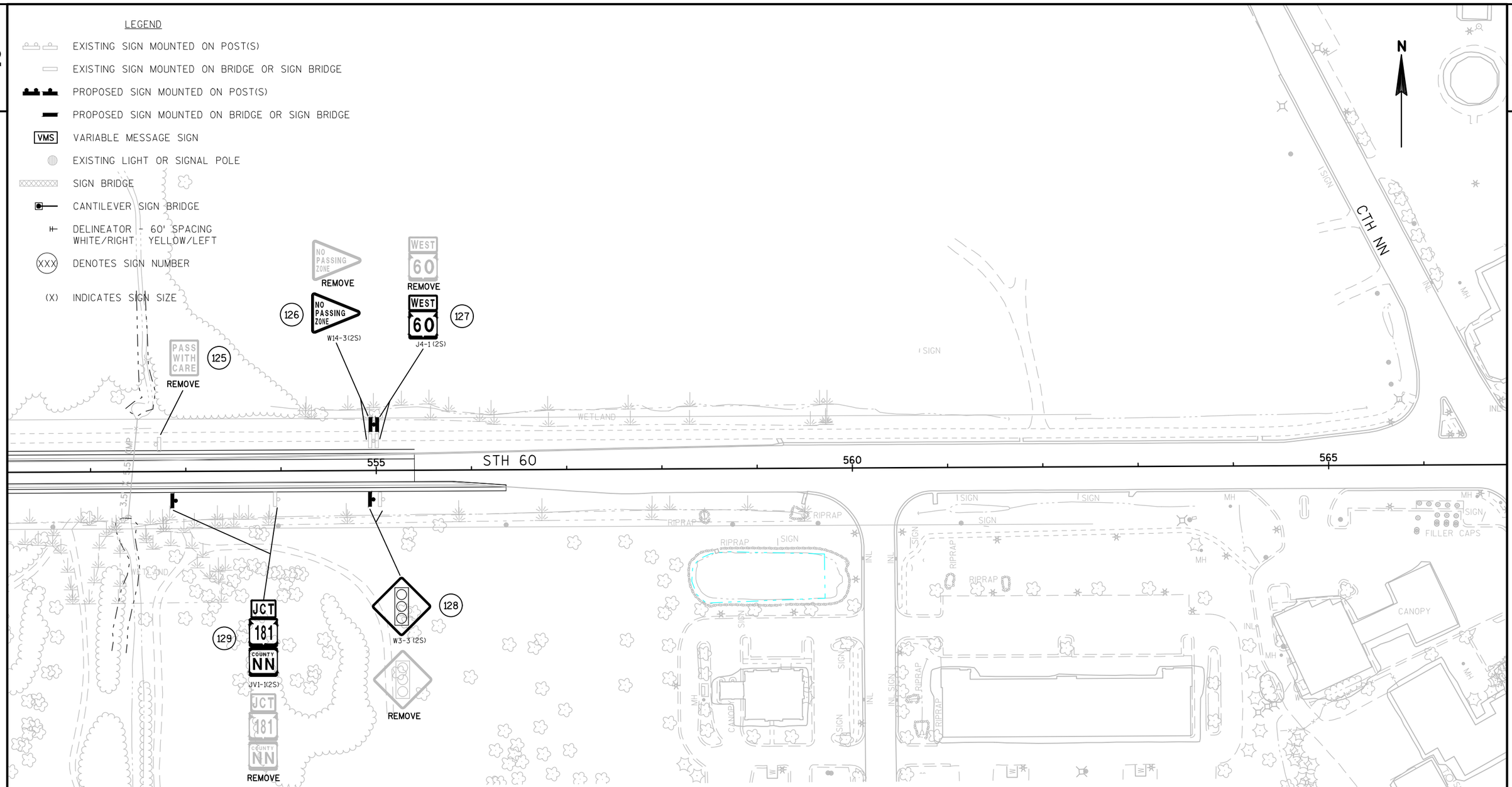
FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023216_PS_REV.DWG
LAYOUT NAME - 023224_PS

PLOT DATE : 1/17/2018 9:29 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE



SHEET 25 OF 25

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 129	E

FILE NAME : N:\PDS\C3D\CAD\23101700\SIGN\023216_PS_REV.DWG
LAYOUT NAME - 023225_PS

PLOT DATE : 1/17/2018 9:29 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

BEGIN PROJECT 2310-17-70
STA. 188+60.00

STH 60

184 186 188 190 192 194 196 198

198+50

MATCHLINE

EAGLE DR

WETLAND

WETLAND

RIPRAP

SIGN

SIGN

SIGN

SIGN

SIGN

FLAG

CANOPY

MH

INL

SIGN

LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING STOP LINE EPOXY 18-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (WHITE)
7. MARKING ARROW EPOXY (WHITE)
8. MARKING WORD EPOXY (WHITE)

ONLY

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 130	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-PM - 024501

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

198+50

MATCHLINE

213+50

MATCHLINE

STRUCTURE B-66-0092

200 STH 60 202 204 206 STH 60 208 210 212

12'

12'

204+45

206+40

205+55

MAPLE RD

CEDAR CR

WETLAND

WETLAND

WETLAND

SIGN

LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING STOP LINE EPOXY 18-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (WHITE)
7. MARKING ARROW EPOXY (WHITE)
8. MARKING WORD EPOXY (WHITE)

ONLY

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 131	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-PM - 024502

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

213+50

228+50

12'

12'

214

216

218

220

222

224

STH 60

226

228

1

2

WETLAND

MATCHLINE

MATCHLINE

LEGEND

1 MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)

2 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

3 MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

4 MARKING LINE EPOXY 8-INCH (WHITE)

5 MARKING STOP LINE EPOXY 18-INCH (WHITE)

6 MARKING LINE EPOXY 4-INCH (WHITE)

7 MARKING ARROW EPOXY (WHITE)

ONLY

8 MARKING WORD EPOXY (WHITE)

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 132	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-PM - 024503

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

POOL

MH

WETLAND

EXISTING STRUCTURE
C-66-0031

228+50

MATCHLINE

230 232 234 STH 60 236 238 240 242 STH 60

243+50

MATCHLINE

12'

12'

SIGN

WETLAND

W

W

LEGEND

1 MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)

2 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

3 MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

4 MARKING LINE EPOXY 8-INCH (WHITE)

5 MARKING STOP LINE EPOXY 18-INCH (WHITE)

6 MARKING LINE EPOXY 4-INCH (WHITE)

7 MARKING ARROW EPOXY (WHITE)

ONLY

8 MARKING WORD EPOXY (WHITE)

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 133	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-PM - 024504

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

CTH G/DIVISION RD

243+50

258+50

END CONSTRUCTION
STA. 249+06.64

12'

12'

244 246 248 250 252 STH 60 254 256 258

SIGN

MATCHLINE

MATCHLINE

LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING STOP LINE EPOXY 18-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (WHITE)
7. MARKING ARROW EPOXY (WHITE)
8. MARKING WORD EPOXY (WHITE)

ONLY

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

REVISED PLANS 10-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 134 E

2

2

N

258+50

MATCHLINE

BEGIN CONSTRUCTION
STA. 266+77.81

SIGN

260 262 STH. 60 264 266 268 270 272 STH 60

12'

12'

1

2

JOHNSON LN

273+50

MATCHLINE

W

MH

FLAG

LEGEND

1 MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)

2 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

3 MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

4 MARKING LINE EPOXY 8-INCH (WHITE)

5 MARKING STOP LINE EPOXY 18-INCH (WHITE)

6 MARKING LINE EPOXY 4-INCH (WHITE)

7 MARKING ARROW EPOXY (WHITE)

ONLY

8 MARKING WORD EPOXY (WHITE)

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 135	E

2

2

N

273+50

MATCHLINE

274

276

278

STH 60

280

279+94

279+33

RIPRAP

RIPRAP

12'

282

284

286

STH 60

288

287+86

288+50

MATCHLINE

283+19

283+56

285+69

285+69

285+60

281+45

281+65

283+45

283+05

284+75

5'

SIGN

CENTER RD

SEPV

SEPC

LEGEND

1 MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)

2 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

3 MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

4 MARKING LINE EPOXY 8-INCH (WHITE)

5 MARKING STOP LINE EPOXY 18-INCH (WHITE)

6 MARKING LINE EPOXY 4-INCH (WHITE)

7 MARKING ARROW EPOXY (WHITE)

ONLY

8 MARKING WORD EPOXY (WHITE)

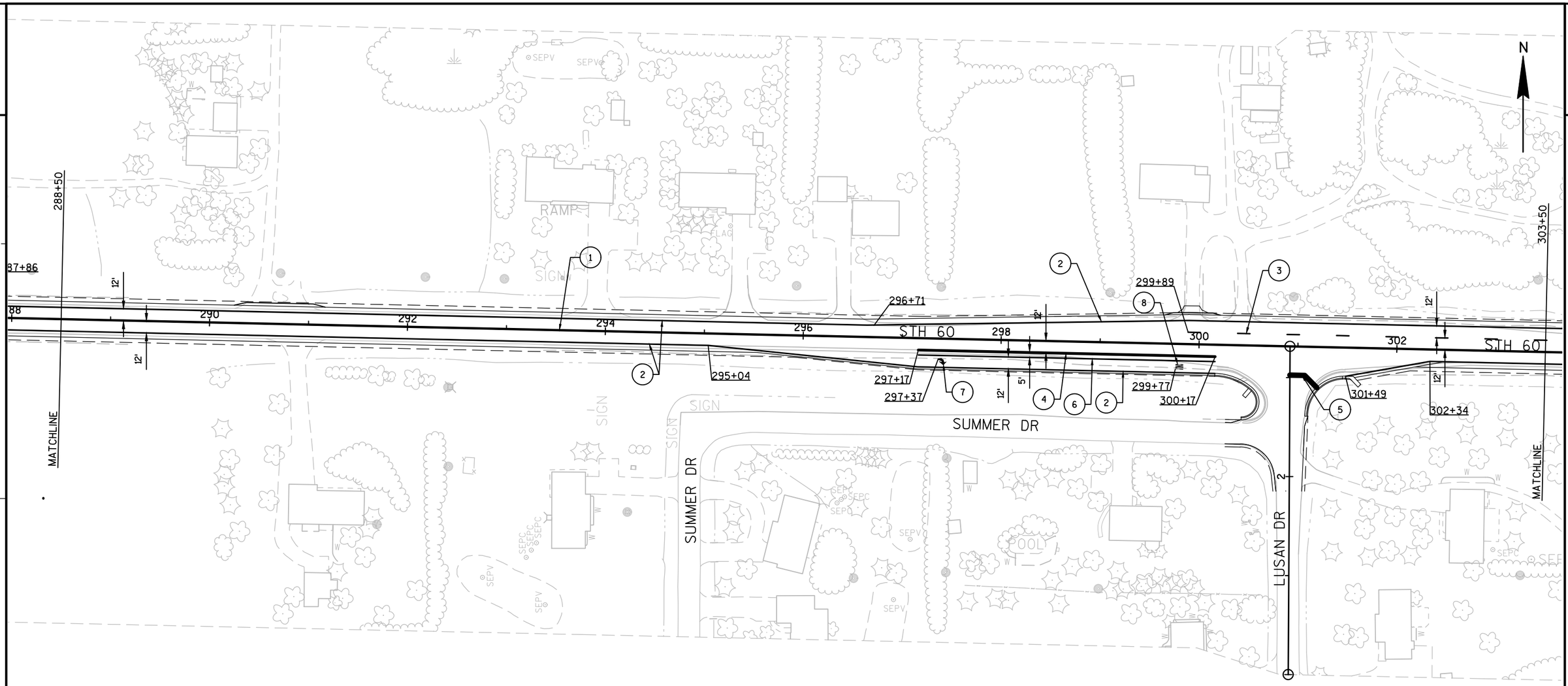
NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 136	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-PM - 024507

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42



LEGEND

1 MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)

2 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

3 MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

4 MARKING LINE EPOXY 8-INCH (WHITE)

5 MARKING STOP LINE EPOXY 18-INCH (WHITE)

6 MARKING LINE EPOXY 4-INCH (WHITE)

7 MARKING ARROW EPOXY (WHITE)

8 MARKING WORD EPOXY (WHITE)

ONLY

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 137	E

2

2

N

303+50

318+50

MATCHLINE

MATCHLINE

STH 60

STH 60

304

306

308

310

312

314

316

318

312+01

312+01

12'

12'

12'

12'

5'

12'

304+66

306+78

306+98

309+38

309+78

311+07

311+94

1

2

3

4

5

6

7

8

SEPV

SEPV

SEPV

SEPC

WETLAND

CHURCH DR

LEGEND

1 MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)

2 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

3 MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

4 MARKING LINE EPOXY 8-INCH (WHITE)

5 MARKING STOP LINE EPOXY 18-INCH (WHITE)

6 MARKING LINE EPOXY 4-INCH (WHITE)

7 MARKING ARROW EPOXY (WHITE)

ONLY

8 MARKING WORD EPOXY (WHITE)

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 138	E

2

2

N

RAMP

STREAM

318+50

MATCHLINE

12'

12'

320

322

324

326

STH 60

328

330

332

STH 60

333+50

MATCHLINE

FLAG

WETLAND

WETLAND

WETLAND

WETLAND

W

LEGEND

1 MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)

2 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

3 MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

4 MARKING LINE EPOXY 8-INCH (WHITE)

5 MARKING STOP LINE EPOXY 18-INCH (WHITE)

6 MARKING LINE EPOXY 4-INCH (WHITE)

7 MARKING ARROW EPOXY (WHITE)

ONLY

8 MARKING WORD EPOXY (WHITE)

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 139	E

2

2

N

333+50

348+50

MATCHLINE

MATCHLINE

STH 60

334

336

338

340

342

344

346

348

347+86

12'

12'

1

2

WETLAND

FLAG

W

W

LL

M

W

A

T

LEGEND

1 MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)

2 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

3 MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

4 MARKING LINE EPOXY 8-INCH (WHITE)

5 MARKING STOP LINE EPOXY 18-INCH (WHITE)

6 MARKING LINE EPOXY 4-INCH (WHITE)

7 MARKING ARROW EPOXY (WHITE)

ONLY

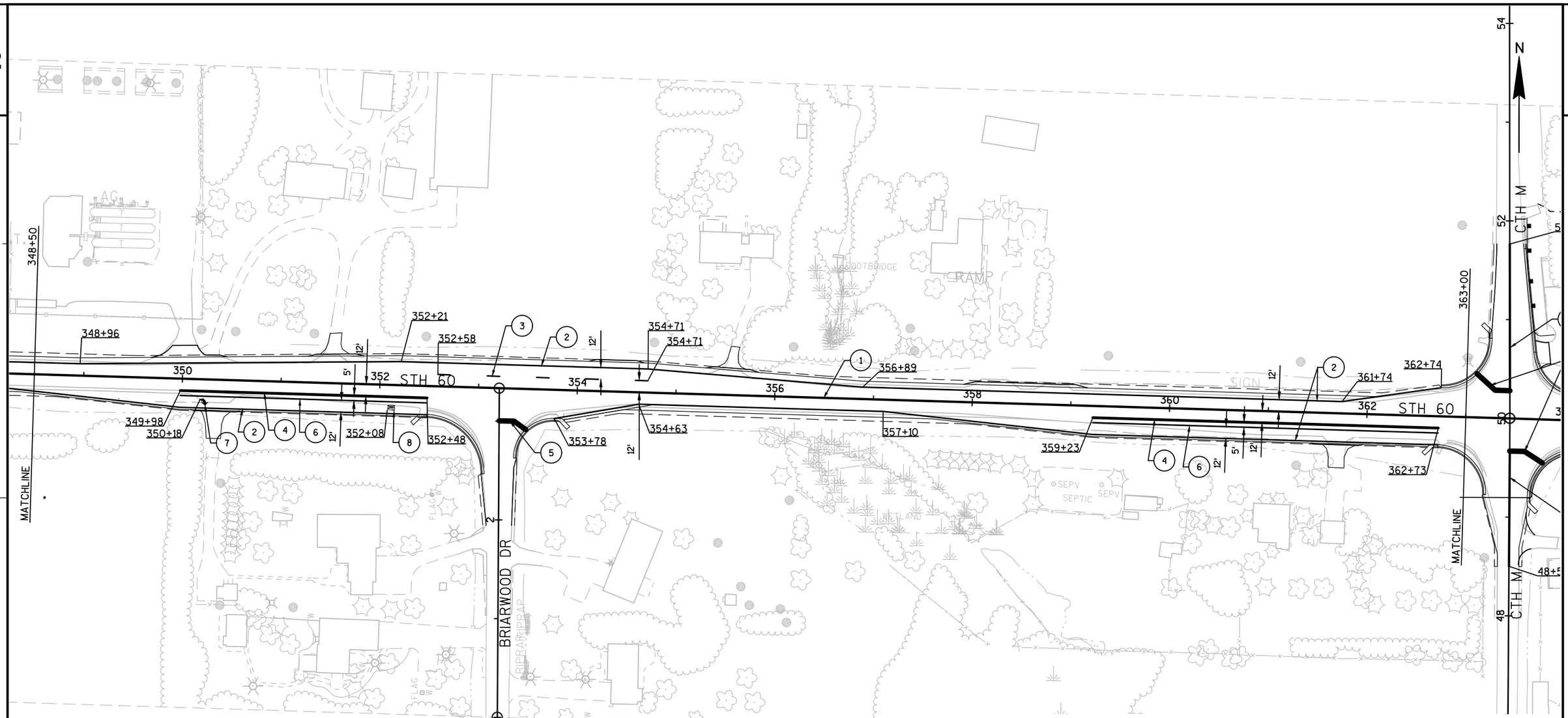
8 MARKING WORD EPOXY (WHITE)

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 140	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-PM - 024511

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT



LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING STOP LINE EPOXY 18-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (WHITE)
7. MARKING ARROW EPOXY (WHITE)
8. MARKING WORD EPOXY (WHITE)

ONLY

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 141	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-PM - 024512
PLOT DATE : 4/7/2016 9:54 AM
PLOT BY : KEVIN WEIGHNER
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

54

52

CTH M

51+77

363+00

74

60

50

364

364+16

365+00

364+15

366

367+66

368

369+16

370

372

STH 60

374

376

378

378+00

MATCHLINE

MATCHLINE

48

CTH M

48+50

46

12'

SIGN

LEGEND

1 MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)

2 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

3 MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

4 MARKING LINE EPOXY 8-INCH (WHITE)

5 MARKING STOP LINE EPOXY 18-INCH (WHITE)

6 MARKING LINE EPOXY 4-INCH (WHITE)

7 MARKING ARROW EPOXY (WHITE)

ONLY

8 MARKING WORD EPOXY (WHITE)

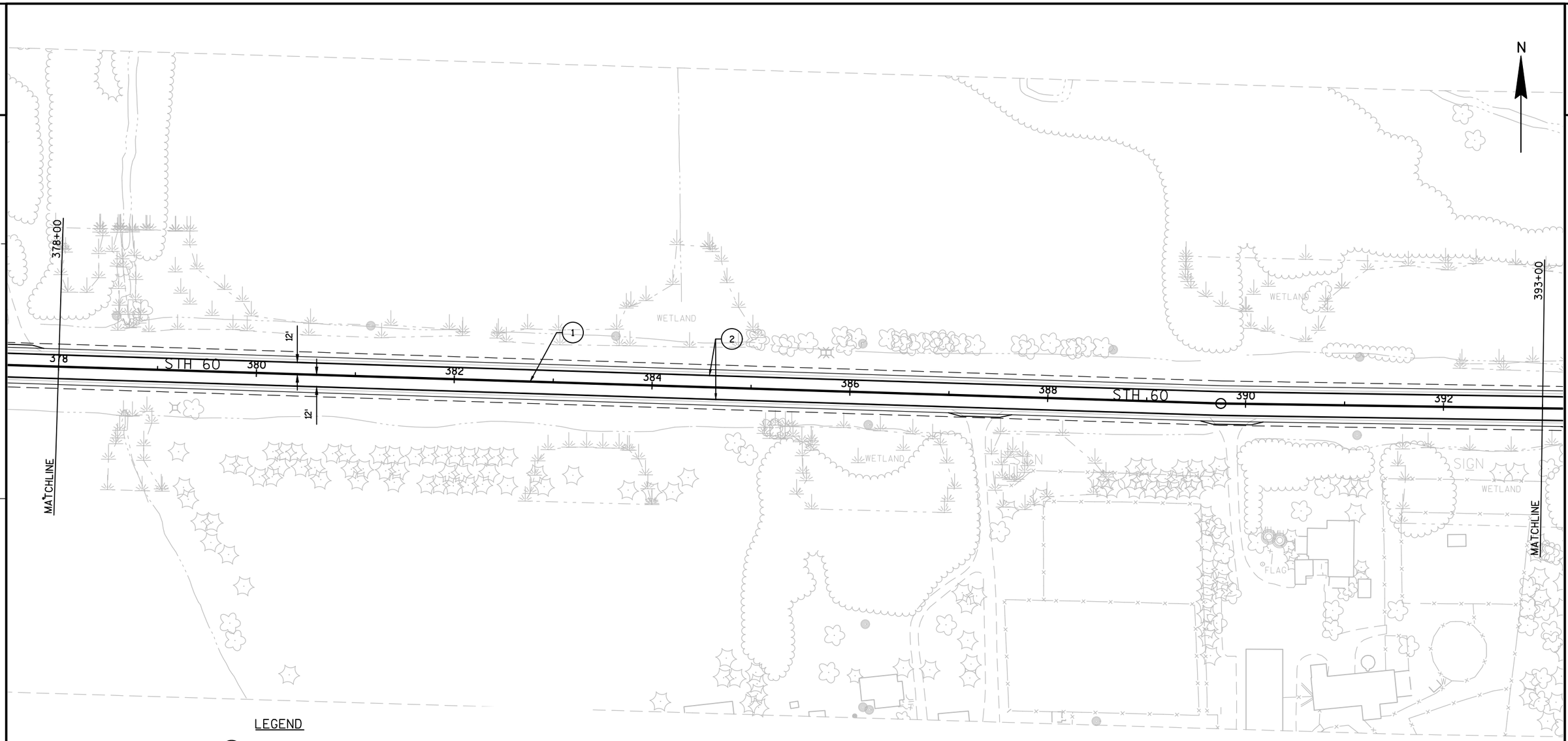
NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 142	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-PM - 024513

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42



LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING STOP LINE EPOXY 18-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (WHITE)
7. MARKING ARROW EPOXY (WHITE)
8. MARKING WORD EPOXY (WHITE)

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 143	E

2

2

N

STRAWBERRY GLEN RD

393+00

408+00

MATCHLINE

MATCHLINE

WETLAND

WETLAND

RIPRAP

SIGN

SIGN

INL

12'

12'

12'

12'

394

396

398

STH 60

400

402

404

406

408

406+37

407+22

404+27

406+44

406+44

1

2

3

5

LEGEND

1 MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)

2 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

3 MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

4 MARKING LINE EPOXY 8-INCH (WHITE)

5 MARKING STOP LINE EPOXY 18-INCH (WHITE)

6 MARKING LINE EPOXY 4-INCH (WHITE)

7 MARKING ARROW EPOXY (WHITE)

8 MARKING WORD EPOXY (WHITE)

ONLY

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 144	E

2

N

STRAWBERRY GLEN RD

408+00

SEPTIC

SEPV

SEPC

SEPC

WASHINGTON COUNTY
OZAUKEE COUNTY

408+79 (8)
409+19
12'
5'
12'
(2) (6) (4) (7)
411+59
411+79

INL

408

410

412

STH 60

414

416

418

12'

(1) (2)

420

422

SIGN

SIGN

SIGN

423+00

(3)
408+57
408+96

412+19

WETLAND

MATCHLINE

MATCHLINE

LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING STOP LINE EPOXY 18-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (WHITE)
7. MARKING ARROW EPOXY (WHITE)
8. MARKING WORD EPOXY (WHITE)

ONLY

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 145	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-PM - 024516

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

423+00

424

426

STH 60

428

430

432

434

STH 60

434+52

436

433+90

436+02

436+22

437+50

12'

12'

12'

5'

12'

MATCHLINE

MATCHLINE

SIGN

LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING STOP LINE EPOXY 18-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (WHITE)
7. MARKING ARROW EPOXY (WHITE)
8. MARKING WORD EPOXY (WHITE)

ONLY

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 146	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-PM - 024517

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

437+50

437+75

438+12

438

440+25

440+25

440

442+42

442

STH 60

444

446

448

450

452

452+50

12'

12'

12'

440+17

439+32

438+02

437+62

MATCHLINE

MATCHLINE

FLM DR

SEPV

SEPTIC

SEPV

SEPC

SEPC

SEPC

LEGEND

1 MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)

2 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

3 MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

4 MARKING LINE EPOXY 8-INCH (WHITE)

5 MARKING STOP LINE EPOXY 18-INCH (WHITE)

6 MARKING LINE EPOXY 4-INCH (WHITE)

7 MARKING ARROW EPOXY (WHITE)

ONLY

8 MARKING WORD EPOXY (WHITE)

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 147	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-PM - 024518

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

452+50

MATCHLINE

END CONSTRUCTION
STA. 456+50.01

BEGIN I.D. 2310-14-70
STA. 456+50.01

12'

12'

1

2

454

456

458

460

462

464

466

STH 60

467+50

MATCHLINE

CTH 'Y'/GRANVILLE RD

SEPV

SEPTIC

SEPV

SEPC

W

W

LEGEND

1 MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)

2 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

3 MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

4 MARKING LINE EPOXY 8-INCH (WHITE)

5 MARKING STOP LINE EPOXY 18-INCH (WHITE)

6 MARKING LINE EPOXY 4-INCH (WHITE)

7 MARKING ARROW EPOXY (WHITE)

ONLY

8 MARKING WORD EPOXY (WHITE)

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 148	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-PM - 024519

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

BEGIN CONSTRUCTION
STA. 473+92.67

END I.D. 2310-14-70
STA. 473+92.67

467+50

MATCHLINE

468 470 STH 60 472 474 476 478 480 STH 60 482

12'

12'

1

2

482+50

MATCHLINE

SEPTIC

SEPV

SLAB

SLAB

LEGEND

1 MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)

2 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

3 MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

4 MARKING LINE EPOXY 8-INCH (WHITE)

5 MARKING STOP LINE EPOXY 18-INCH (WHITE)

6 MARKING LINE EPOXY 4-INCH (WHITE)

7 MARKING ARROW EPOXY (WHITE)

8 MARKING WORD EPOXY (WHITE)

ONLY

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 149	E

2

N

SEPTIC

SEPV

W

WETLAND

482+50

484

486

488

490

490+02

490+63

492

492+14

492+34

494

494+14

493+74

493+88

494+25

495+44

496

496+29

496+38

496+38

497+50

STH. 60

12'

5'

MATCHLINE

MATCHLINE

LIZBETH LN

LEGEND

1	MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)
2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
3	MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
4	MARKING LINE EPOXY 8-INCH (WHITE)
5	MARKING STOP LINE EPOXY 18-INCH (WHITE)
6	MARKING LINE EPOXY 4-INCH (WHITE)
7	MARKING ARROW EPOXY (WHITE)
8	MARKING WORD EPOXY (WHITE)

ONLY

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 150	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-PM - 024521

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

497+50

MATCHLINE

512+50

MATCHLINE

STH 60

STH 60

498

500

502

504

506

508

510

512

511+96

12'

12'

1

2

WETLAND

SEPC

SEPV

SEPTIC

WALL

W

I SIGN

LEGEND

———	1	MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)
———	2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
— — —	3	MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
———	4	MARKING LINE EPOXY 8-INCH (WHITE)
———	5	MARKING STOP LINE EPOXY 18-INCH (WHITE)
———	6	MARKING LINE EPOXY 4-INCH (WHITE)
↱	7	MARKING ARROW EPOXY (WHITE)
ONLY	8	MARKING WORD EPOXY (WHITE)

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 151	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-PM - 024522

PLOT DATE : 4/7/2016 9:54 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

RUINS
RUINS
RUINS
RUINS
SEPV
SEPTIC
SEPV
SEPC
SEPV
SEPTIC
SEPV
SEPC
SEPC
WETLAND
WETLAND

512+50

527+50

4+73

517+28

516+28

518+58

521+58

523+71

514

516

518

520

522

524

526

STH 60

STH 60

514+08

517+08

518+38

519+38

2+48

HORNS CORNERS RD

MATCHLINE

MATCHLINE

LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING STOP LINE EPOXY 18-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (WHITE)
7. MARKING ARROW EPOXY (WHITE)
8. MARKING WORD EPOXY (WHITE)

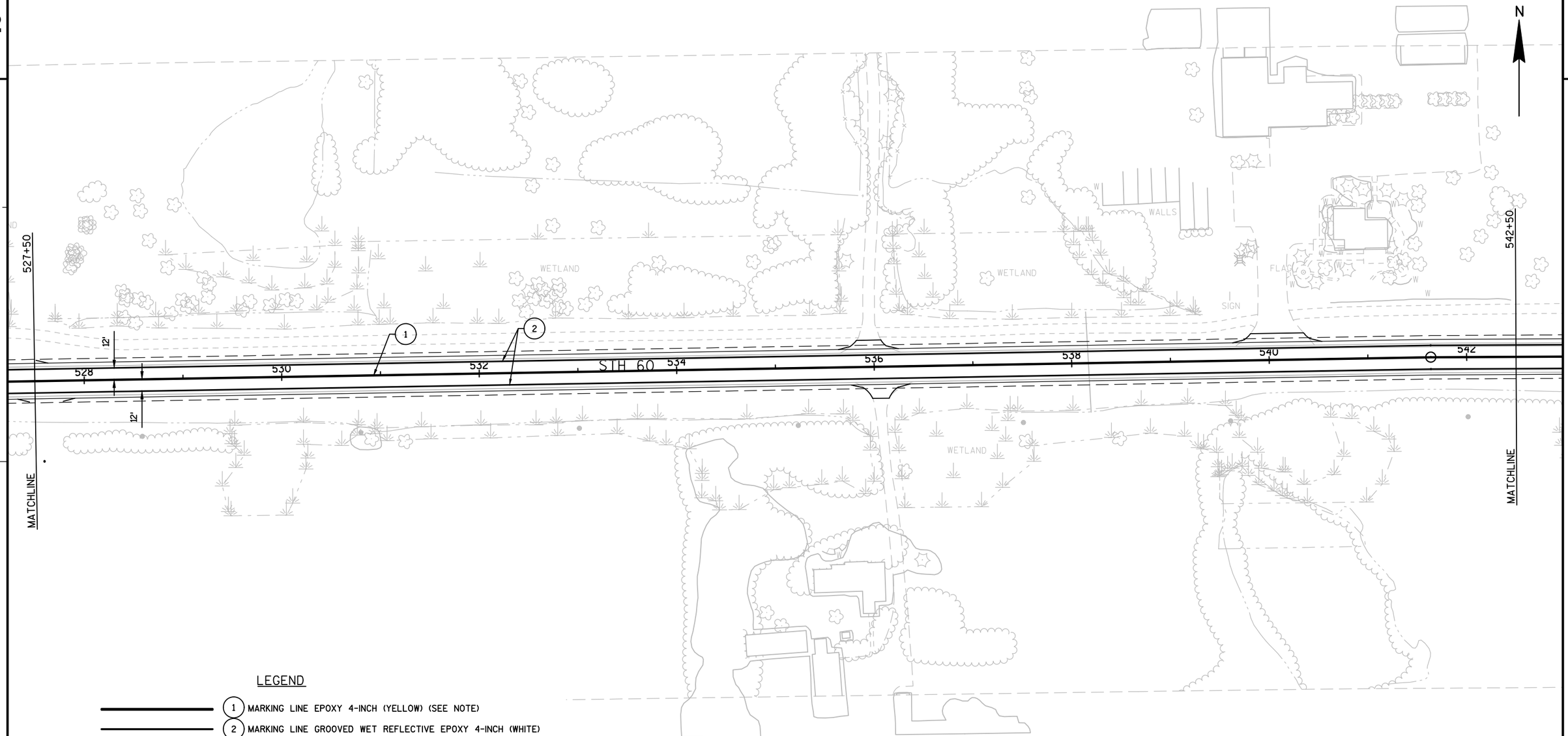
ONLY

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 152	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-PM - 024523
PLOT DATE : 4/7/2016 9:54 AM
PLOT BY : KEVIN WEIGHNER
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
3. MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE EPOXY 8-INCH (WHITE)
5. MARKING STOP LINE EPOXY 18-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (WHITE)
7. MARKING ARROW EPOXY (WHITE)
8. MARKING WORD EPOXY (WHITE)

ONLY

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 153	E

2

2

N

END PROJECT 2310-17-70
STA. 555+40.00

542+50

WETLAND

SIGN

WETLAND

12'

544 546 548 550 552 554 556

STH 60

STH 60

12'

MATCHLINE

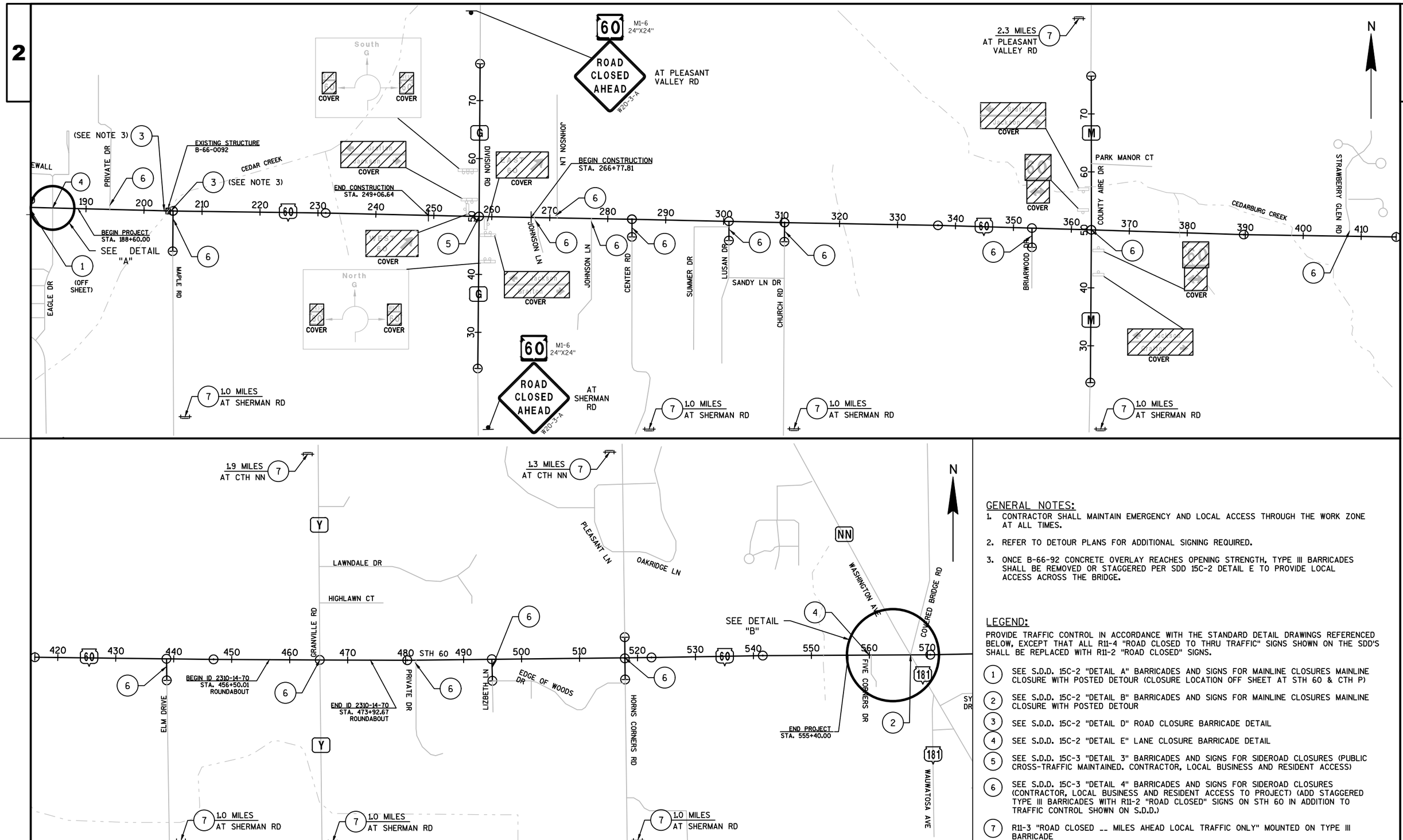
WETLAND

LEGEND

———	1	MARKING LINE EPOXY 4-INCH (YELLOW) (SEE NOTE)
———	2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
— — —	3	MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
———	4	MARKING LINE EPOXY 8-INCH (WHITE)
———	5	MARKING STOP LINE EPOXY 18-INCH (WHITE)
———	6	MARKING LINE EPOXY 4-INCH (WHITE)
↱	7	MARKING ARROW EPOXY (WHITE)
ONLY	8	MARKING WORD EPOXY (WHITE)

NOTE: CONTRACTOR SHALL ESTABLISH NO PASSING ZONES IN ACCORDANCE WITH "LOCATING NO PASSING ZONES" BID ITEM.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	PAVEMENT MARKING	SCALE, FEET 0 50 100	SHEET 154	E



GENERAL NOTES:

1. CONTRACTOR SHALL MAINTAIN EMERGENCY AND LOCAL ACCESS THROUGH THE WORK ZONE AT ALL TIMES.
2. REFER TO DETOUR PLANS FOR ADDITIONAL SIGNING REQUIRED.
3. ONCE B-66-92 CONCRETE OVERLAY REACHES OPENING STRENGTH, TYPE III BARRICADES SHALL BE REMOVED OR STAGGERED PER SDD 15C-2 DETAIL E TO PROVIDE LOCAL ACCESS ACROSS THE BRIDGE.

LEGEND:

PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE STANDARD DETAIL DRAWINGS REFERENCED BELOW, EXCEPT THAT ALL R11-4 "ROAD CLOSED TO THRU TRAFFIC" SIGNS SHOWN ON THE SDD'S SHALL BE REPLACED WITH R11-2 "ROAD CLOSED" SIGNS.

(1) SEE S.D.D. 15C-2 "DETAIL A" BARRICADES AND SIGNS FOR MAINLINE CLOSURES MAINLINE CLOSURE WITH POSTED DETOUR (CLOSURE LOCATION OFF SHEET AT STH 60 & CTH P)

(2) SEE S.D.D. 15C-2 "DETAIL B" BARRICADES AND SIGNS FOR MAINLINE CLOSURES MAINLINE CLOSURE WITH POSTED DETOUR

(3) SEE S.D.D. 15C-2 "DETAIL D" ROAD CLOSURE BARRICADE DETAIL

(4) SEE S.D.D. 15C-2 "DETAIL E" LANE CLOSURE BARRICADE DETAIL

(5) SEE S.D.D. 15C-3 "DETAIL 3" BARRICADES AND SIGNS FOR SIDEROAD CLOSURES (PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS)

(6) SEE S.D.D. 15C-3 "DETAIL 4" BARRICADES AND SIGNS FOR SIDEROAD CLOSURES (CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT) (ADD STAGGERED TYPE III BARRICADES WITH R11-2 "ROAD CLOSED" SIGNS ON STH 60 IN ADDITION TO TRAFFIC CONTROL SHOWN ON S.D.D.)

(7) R11-3 "ROAD CLOSED __ MILES AHEAD LOCAL TRAFFIC ONLY" MOUNTED ON TYPE III BARRICADE

PROJECT NO: 2310-17-00	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	TRAFFIC CONTROL PLAN	SHEET 155	E

2

N

NW PASSAGE RD

INDUSTRIAL DR.

P

45

DIANE LN

ROSEWOOD LN

P

APPLE LN

INDUSTRIAL DR.

TOWER DR

N CENTER ST

MEADOW LANE

200 FMS

60

CEDAR PKWY

CEDAR PARK CT

PHARMACAL WAY

200 FMS

WESTERN AVE

S CENTER ST

SYSCO DR

P

45

DETAIL A

HIGHLAND DR

JACKSON DR

JACKSON DR

RIDGEWAY RD

GEORGETOWN DR

HICKORY LN

EAGLE DR

LANE CLOSED
R11-2-L
48"X30"

25' (TYP.)

ROAD CLOSED
R11-2
48"X30"

STH 60

LEFT LANE CLOSURE AT EAGLE DR

PROJECT WORKZONE

CLOSE SB LEFT TURN LANE FROM EAGLE DR TO STH 60 (SEE DETAIL ABOVE)

ROAD CLOSED AHEAD
W20-3-A

ROAD CLOSED AHEAD
W20-3-A

Grafton 10
COVER

60
COVER

ONLY
ONLY
R3-50-R
30"X36"

ROAD CLOSED 500 FT
W20-3-D

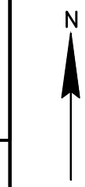
ROAD CLOSED AHEAD
W20-3-A

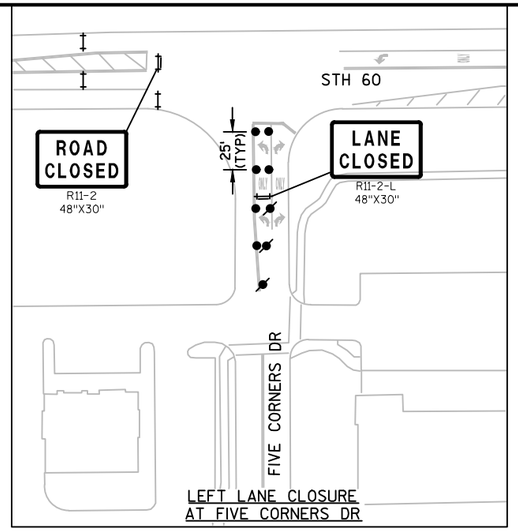
EAGLE DR

2

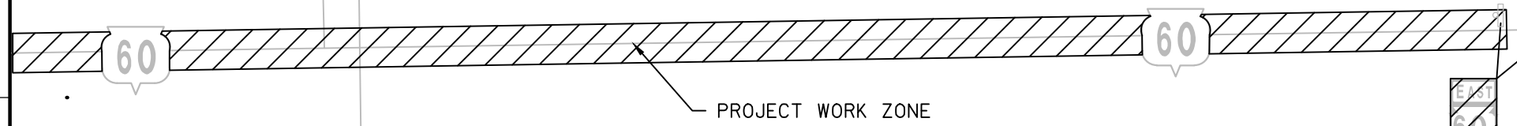
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	TRAFFIC CONTROL PLAN	SHEET	E

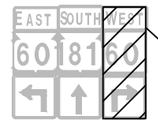
FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\025002-TC.DWG
2310-17-00_SECTIONS1-2 - 025002-TC - 025002
PLOT DATE : 4/26/2018 4:23 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 42

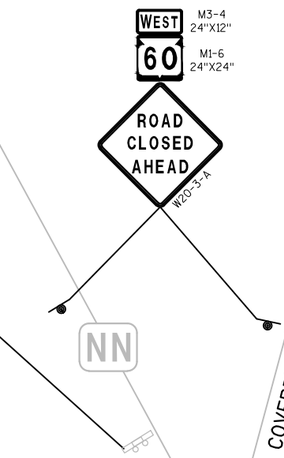


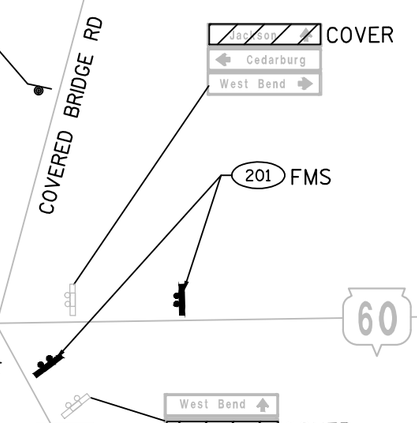


LEFT LANE CLOSURE
AT FIVE CORNERS DR







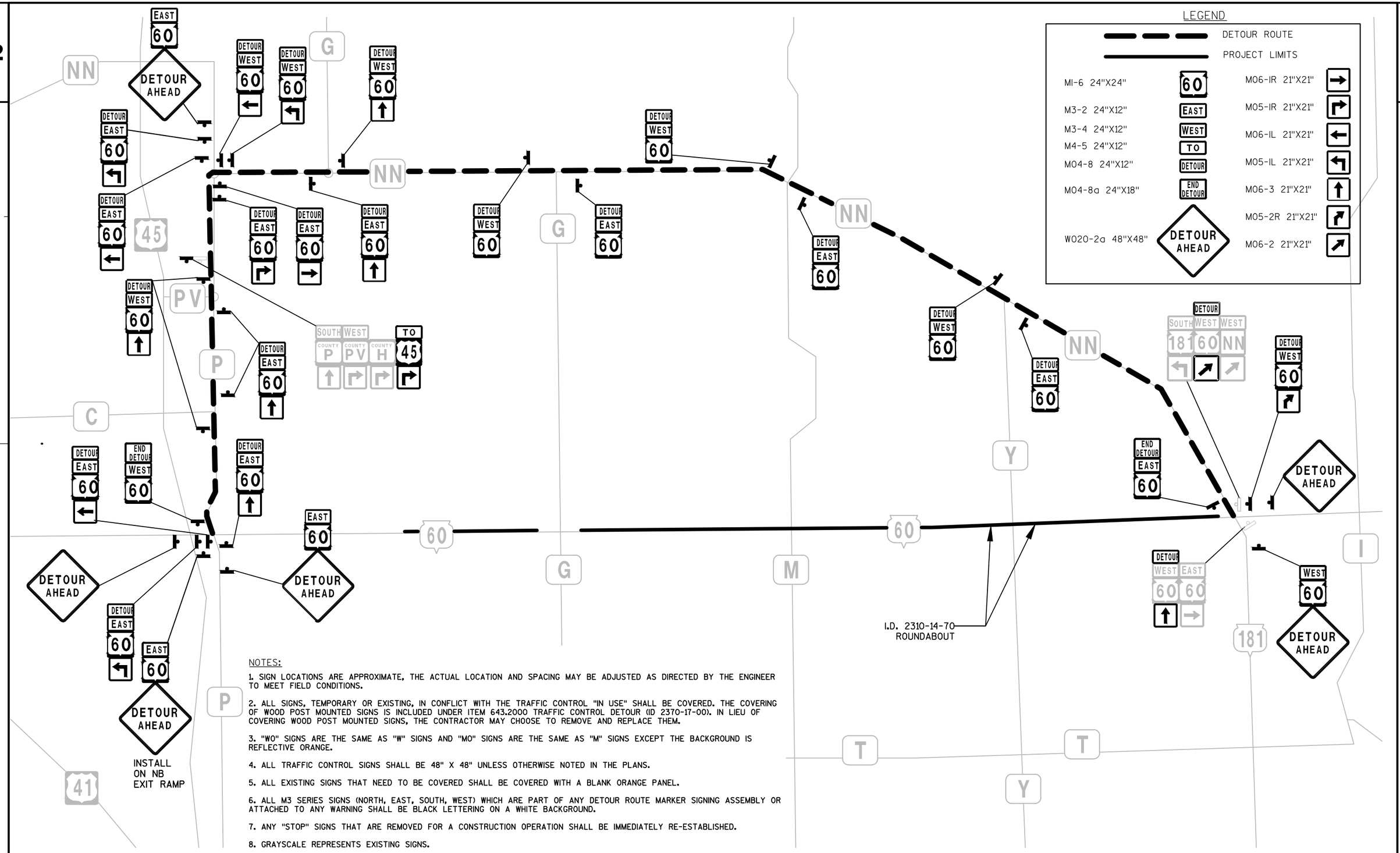


CLOSE NB LEFT TURN LANE FROM FIVE CORNERS DR TO STH 60 (SEE DETAIL ABOVE)

DETAIL B

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	TRAFFIC CONTROL PLAN	SHEET	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\025002-TC.DWG
2310-17-00_SECTIONS1-2 - 025002-TC - 025003
PLOT DATE : 4/26/2018 4:23 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 42



NOTES:

1. SIGN LOCATIONS ARE APPROXIMATE, THE ACTUAL LOCATION AND SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.

2. ALL SIGNS, TEMPORARY OR EXISTING, IN CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED. THE COVERING OF WOOD POST MOUNTED SIGNS IS INCLUDED UNDER ITEM 643.2000 TRAFFIC CONTROL DETOUR (ID 2370-17-00). IN LIEU OF COVERING WOOD POST MOUNTED SIGNS, THE CONTRACTOR MAY CHOOSE TO REMOVE AND REPLACE THEM.

3. "WO" SIGNS ARE THE SAME AS "W" SIGNS AND "MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.

4. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.

5. ALL EXISTING SIGNS THAT NEED TO BE COVERED SHALL BE COVERED WITH A BLANK ORANGE PANEL.

6. ALL M3 SERIES SIGNS (NORTH, EAST, SOUTH, WEST) WHICH ARE PART OF ANY DETOUR ROUTE MARKER SIGNING ASSEMBLY OR ATTACHED TO ANY WARNING SHALL BE BLACK LETTERING ON A WHITE BACKGROUND.

7. ANY "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED.

8. GRAYSCALE REPRESENTS EXISTING SIGNS.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	DETOUR - STH 60	SHEET 158	E

2

2

N

BEGIN PROJECT 2310-17-70
STA. 188+60.00

STH 60 STA.=204+99.31
MAPLE RD STA.=6+95.26
X=373163.66
Y=147805.79

T10N R20E
17 17
20 20
X=370530.62
Y=147871.66
Z=850.11
WISDOT ALUM. CAP
SET IN CONCRETE

180 SECTION LINE
S88°34'00"E 2633.86'

190 S88°34'00"E 2633.86' 200

FENO 1
X=371502.106
Y=147788.898
Z=842.374

FENO 31
X=372217.611
Y=147772.465
Z=839.907

T10N R20E
17 16
20 21
X=373163.66
Y=147805.79
Z=843.81
WISDOT ALUM. CAP
SET IN CONCRETE

BP: 0+00.00
X: 373158.94
Y: 147110.55

N00°23'18"E 695.26'

SECTION LINE
N00°23'18"E 2629.99'

T10N R20E
20 21
20 21
X=373145.83
Y=145175.86
Z=866.18
SEWRPC BRASS CAP
SET IN CONCRETE

FENO 2
X=373288.490
Y=147856.934
Z=839.937

210

FENO 30
X=374202.156
Y=147843.943
Z=837.753

220 S89°14'02"E 2634.92'

FENO 29
X=375067.099
Y=147829.468
Z=843.306

SECTION LINE
S89°14'02"E 2634.92'

T10N R20E
16 16
16 16
X=375813.58
Y=150388.91
Z=838.32
WASHINGTON CO. BRASS CAP
SET IN CONCRETE

1/4 SECTION LINE
N00°20'00"E 2618.40'

230

FENO 28
X=375791.471
Y=147726.375
Z=842.643

T10N R20E
16 16
21 21
X=375798.35
Y=147770.55
Z=844.24
WISDOT ALUM. CAP
SET IN CONCRETE

SECTION LINE
S88°43'53"E 2646.56'

240 S88°43'53"E 2646.56' 250

FENO 27
X=376597.925
Y=147697.965
Z=840.792

FENO 26
X=377603.647
Y=147781.167
Z=853.648

END CONSTRUCTION
STA. 249+06.64

1/4 SECTION LINE
N00°09'40"E 2637.34'

T10N R20E
21 21
21 21
X=373163.66
Y=147805.79
Z=873.31
BRASS CAP
SET IN CONCRETE

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	ALIGNMENT DETAIL	SHEET 159	E

2

EP: 76+35.75
X: 378460.60
Y: 150347.66

T 10 N R 20 E — 16 | 15 / 16 | 15

X=378460.65
Y=150347.66
Z=842.12
WASHINGTON CO. BRASS CAP
SET IN CONCRETE

60 NO0°21'19"E 2635.75'

SECTION LINE
NO0°21'23"E 2635.75'

T 10 N R 20 E — 15 | 15 / 15 | 15

X=381096.29
Y=150305.96
Z=837.35
Z=842.12
WASHINGTON CO. BRASS CAP
SET IN CONCRETE

1/4 SECTION LINE
NO0°18'47"E 2641.49'

T 10 N R 20 E — 15 | 14 / 22 | 23

X=383713.81
Y=147606.14
Z=861.36
WISDOT ALUM. CAP
SET IN CONCRETE

STH 60 STA.=257+80.79
CTH G STA.=50+00.00
X=378444.26
Y=147711.96

BEGIN CONSTRUCTION
STA. 266+77.87

FENO 3
X=378523.619
Y=147775.463
Z=874.098

T 10 N R 20 E — 15 | 15 / 22 | 22

X=381081.85
Y=147664.51
Z=876.27
WISDOT ALUM. CAP
SET IN CONCRETE

STH 60 STA.=284+18.81
CENTER RD STA.=3+07.25
X=381081.85
Y=147664.51

SECTION LINE
S88°43'47"E 2632.61'

S88°33'18"E
409.03'

STH 60 STA.=300+92.08
LUSAN DR STA.=3+31.43
X=382754.71
Y=147627.41

STH 60 STA.=310+51.42
CHURCH RD STA.=3+30.02
X=383713.81
Y=147606.14

FENO 23
X=384793.396
Y=147635.949
Z=842.633

FENO 22
X=385519.157
Y=147629.780
Z=842.753

260 270 S88°58'09"E 2638.02' 280 290 S88°43'47"E 2632.61' 300 310 320 S88°59'14"E 2648.25' 330

FENO 4
X=379440.205
Y=147640.000
Z=883.519

SECTION LINE
S88°58'09"E 2638.02'

FENO 25
X=380422.249
Y=147633.778
Z=888.859

BP: 0+00.00
X: 381081.09
Y: 147357.26

FENO 5
X=381018.458
Y=147609.873
Z=876.742

N00°08'30"E
307.25'

FENO 24
X=381664.735
Y=147601.628
Z=864.933

FENO 6
X=382682.991
Y=147580.371
Z=882.092

N00°20'00"E
331.43'

BP: 0+00.00
X: 382752.78
Y: 147295.98

BP: 0+00.00
X: 382345.29
Y: 147548.78

LUSAN DR STA.=2+42.49
SUMMER DR STA.=4+09.03
X=382754.19
Y=147538.46

FENO 7
X=383658.942
Y=147551.911
Z=863.158

N00°13'55"E
330.02'

BP: 0+00.00
X: 383712.47
Y: 147276.13

SECTION LINE
S88°59'14"E 2648.25'

FENO 21
X=386086.705
Y=147613.774
Z=853.996

T 10 N R 20 E — 16 | 15 / 21 | 22

X=378444.26
Y=147711.96
Z=875.98
WISDOT ALUM. CAP
SET IN CONCRETE

SECTION LINE
NO0°29'45"E 2623.54'

40 NO0°29'45"E 2623.54' 30

T 10 N R 20 E — 21 | 22 / 21 | 22

X=378421.55
Y=145088.52
Z=843.56
WASHINGTON CO. BRASS CAP
SET IN CONCRETE

BP: 23+76.46
X: 378421.55
Y: 145088.52

1/4 SECTION LINE
NO0°08'30"E 2631.94'

T 10 N R 20 E — 22 | 22 / 22 | 22

X=381075.34
Y=145032.58
Z=854.78
WISDOT ALUM. CAP
SET IN CONCRETE

SECTION LINE
NO0°13'55"E 2634.82'

T 10 N R 20 E — 22 | 23 / 22 | 23

X=383703.15
Y=144971.34
Z=864.31
WASHINGTON CO. BRASS CAP
SET IN CONCRETE

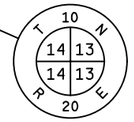
N

2

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	ALIGNMENT DETAIL	SHEET 160	E

2

EP: 76+52.58
X: 389002.72
Y: 150133.19



X=389002.72
Y=150133.19
Z=881.03
WASHINGTON CO. BRASS CAP
SET IN CONCRETE

SECTION LINE
N00°03'41"W 2652.89'
60
N00°03'41"W 2652.89'

N

2

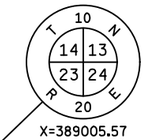
STH 60 STA.=353+20.95
BRIARWOOD DR STA.=3+33.34
X=387982.20
Y=147510.89

FENO 20
X=386689.238
Y=147597.737
Z=861.733

SECTION LINE
S88°17'16"E 2645.10'

FENO 8
X=388070.315
Y=147565.459
Z=868.846

FENO 9
X=388944.983
Y=147532.237
Z=859.923



X=389005.57
Y=147480.30
Z=866.16
WISDOT ALUM. CAP
SET IN CONCRETE

340 350 360 370 380 390 400 410

S88°17'16"E 2645.10'

FENO 19
X=387204.978
Y=147483.529
Z=871.579

BP: 0+00.00
X: 387980.24
Y: 147177.56

N00°20'14"E
333.34'

S88°11'09"E 2630.31'

FENO 16
X=389890.361
Y=147407.179
Z=860.370

FENO 17
X=390613.060
Y=147357.407
Z=852.761

SECTION LINE
S88°11'09"E 2630.31'

SECTION LINE
S89°08'35"E 2629.36'

FENO 18
X=392752.520
Y=147430.459
Z=855.360

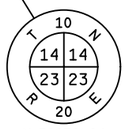
EP: 1+67.40
X: 393453.88
Y: 147537.23

FENO 10
X=393349.788
Y=147440.514
Z=865.086

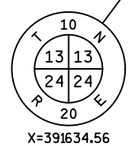
N01°19'43"E
167.40'

STH 60 STA.=363+44.77
CTH M STA.=50+00.00
X=389005.57
Y=147480.30

STH 60 STA.=407+91.79
STRAWBERRY RD STA.=0+00.01
X=393451.06
Y=147369.86

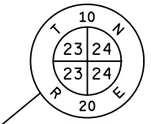


X=386361.64
Y=147559.34
Z=862.19
WISDOT ALUM. CAP
SET IN CONCRETE



X=391634.56
Y=147397.04
Z=858.99
WISDOT ALUM. CAP
SET IN CONCRETE

NO0°22'25"E 2635.35'
40
NO0°22'25"E 2635.35'
SECTION LINE
30



X=388988.38
Y=144845.01
Z=893.95
WASHINGTON CO. BRASS CAP
SET IN CONCRETE

BP: 23+64.65
X: 388988.38
Y: 144845.01

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	ALIGNMENT DETAIL	SHEET 161	E

2

N

WASHINGTON
X=394263.62
Y=147357.71
Z=867.70

T 10 N R 20 E
1.3 1.8
2.4 1.9
T 10 N R 21 E

WISDOT ALUM. CAP
SET IN CONCRETE

OZAUKEE
X=565169.94
Y=403028.48
Z=867.70

ALUM WISDOT MON (WASHINGTON)
X=394304.726
Y=147397.339
Z=866.309

ALUM WISDOT MON (OZAUKEE)
X=565211.114
Y=403068.061
Z=866.309

FENO 32
X=565709.560
Y=403070.245
Z=868.890

SECTION LINE
S89°10'48"E 2270.86'

STH 60 STA.=438+75.15
ELM RD STA.=3+72.14
X=567440.49
Y=403001.36

T 10 N R 21 E
18 18
19 19

X=567440.57
Y=402995.98
Z=884.03
WISDOT ALUM. CAP
SET IN CONCRETE

END CONSTRUCTION
BEGIN I.D. 2310-14-70
STA. 456+50.01

PI: 446+87.87
X: 568253.16
Y: 402991.65

SECTION LINE
S89°42'03"E 2646.07'

PI: 465+21.34
X: 570086.60
Y: 402982.16

T 10 N R 21 E
18 17
18 17

X=570062.21
Y=405615.17
Z=866.89
WISDOT ALUM. CAP
SET IN CONCRETE

SECTION LINE
N00°31'51"W 2633.13'

BEGIN CONSTRUCTION
END I.D. 2310-14-70
STA. 473+92.67

SECTION LINE
S89°57'17"E 2628.87'

PI: 480+31.38
X: 571596.64
Y: 402976.98

N89°22'53"E 4210.30'

FENO 34
X=572022.426
Y=402936.240
Z=875.799

WASHINGTON:
PI: 416+04.43
X: 394263.62
Y: 147357.71

OZAUKEE:
PI: 416+04.43
X: 565169.94
Y: 403028.48

S89°08'35"E
2629.36'

420 430 440 450 460 470 480 490

S89°18'56"E 3083.44'

BP: 0+00.00
X: 567445.70
Y: 402629.25

FENO 11
X=567563.498
Y=402955.582
Z=882.456

N00°48'07"W
372.14'

S89°42'12"E 1833.47'

FENO 33
X=568758.124
Y=402942.162
Z=887.603

S89°48'13"E 1510.04'

FENO 12
X=570154.872
Y=402927.860
Z=881.534

T 10 N R 21 E
18 17
19 20

X=570086.61
Y=402982.16
Z=882.64
WISDOT ALUM. CAP
SET IN CONCRETE

T 10 N R 21 E
17 17
20 20

X=572715.48
Y=402980.08
Z=877.74
WISDOT ALUM. CAP
SET IN CONCRETE

1/4 SECTION LINE
N00°48'07"W 2630.10'

T 10 N R 21 E
19 19
19 19

X=567477.37
Y=400366.14
Z=868.10
BERNSTEN
MONUMENT

SECTION LINE
N00°39'28"W 2627.78'

T 10 N R 21 E
19 20
19 20

X=570116.78
Y=400354.55
Z=876.05
WISDOT ALUM. CAP
SET IN CONCRETE

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	ALIGNMENT DETAIL	SHEET 162	E

N

T 10 N R 21 E — 17 | 16 / 17 | 16

X=575327.30
Y=405655.40
Z=868.68
SEWRPC BRASS CAP
SET IN CONCRETE

SECTION LINE
N00°27'18"W 2646.99'

T 10 N R 21 E — 16 | 16 / 16 | 16

X=577960.63
Y=405696.80
Z=885.92
SEWRPC BRASS CAP
SET IN CONCRETE

1/4 SECTION LINE
N00°11'16"W 2640.35'

T 10 N R 21 E — 16 | 15 / 16 | 15

X=580602.42
Y=405709.69
Z=883.65
SEWRPC BRASS CAP
SET IN CONCRETE

SECTION LINE
N00°19'07"W 2633.68'

T 10 N R 21 E — 17 | 16 / 20 | 21

X=575348.32
Y=403008.50
Z=875.04
WISDOT ALUM. CAP
SET IN CONCRETE

END PROJECT 2310-17-00
STA. 555+40.00

EP: 7+30.46
X: 575345.41
Y: 403374.24

FENO 13
X=573089.708
Y=403042.480
Z=872.306

N00°27'18"W
365.75'

PI: 522+41.68
X: 575806.69
Y: 403022.44

SECTION LINE
N88°57'06"E 2621.40'

PI: 541+63.73
X: 577728.46
Y: 403055.25

PI: 570+52.42
X: 580617.11
Y: 403070.06

500 N89°22'53"E 4210.30' 510 520 530 N89°01'19"E 1922.05' 540 550 560 N89°42'22"E 2888.69' 570

N01°21'44"W
371.81'

BP: 0+00.00
X: 573062.07
Y: 402621.00

SECTION LINE
N89°22'54"E 2632.99'

BP: 0+00.00
X: 575352.67
Y: 402643.82

FENO 14
X=575291.358
Y=402952.507
Z=871.628

N00°41'01"W
364.71'

FENO 35
X=576551.747
Y=402981.343
Z=872.637

FENO 15
X=579297.875
Y=403005.921
Z=868.798

SECTION LINE
N89°34'34"E 2647.85'

T 10 N R 21 E — 16 | 16 / 21 | 21

X=577969.28
Y=403056.46
Z=877.12
WISDOT ALUM. CAP
SET IN CONCRETE

T 10 N R 21 E — 16 | 15 / 21 | 22

X=580617.06
Y=403076.06
Z=876.86
SEWRPC BRASS CAP
SET IN CONCRETE

SECTION LINE
N00°41'01"W 2646.20'

1/4 SECTION LINE
N01°01'42"W 2652.83'

SECTION LINE
N00°31'32"W 2644.33'

T 10 N R 21 E — 20 | 21 / 20 | 21

X=575379.88
Y=400362.49
Z=888.48
BERNSTEN
MONUMENT

T 10 N R 21 E — 21 | 21 / 21 | 21

X=578016.89
Y=400404.06
Z=876.28
SEWRPC BRASS CAP
SET IN CONCRETE

T 10 N R 21 E — 21 | 22 / 21 | 22

X=580641.31
Y=400431.84
Z=877.46
BERNSTEN
MONUMENT

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	ALIGNMENT DETAIL	SHEET 163	E

2310-17-70

Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	14.000	14.000
0004	201.0120	Clearing	ID	56.000	56.000
0006	201.0205	Grubbing	STA	14.000	14.000
0008	201.0220	Grubbing	ID	56.000	56.000
0010	203.0100	Removing Small Pipe Culverts	EACH	17.000	17.000
0012	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 203+74	LS	1.000	1.000
0014	204.0110	Removing Asphaltic Surface	SY	1,689.000	1,689.000
0016	204.0115	Removing Asphaltic Surface Butt Joints	SY	2,835.000	2,835.000
0018	204.0120	Removing Asphaltic Surface Milling	SY	108,335.000	108,335.000
0020	204.0150	Removing Curb & Gutter	LF	2,697.000	2,697.000
0022	204.0155	Removing Concrete Sidewalk	SY	16.000	16.000
0024	204.0165	Removing Guardrail	LF	2,078.000	2,078.000
0026	204.0190	Removing Surface Drains	EACH	10.000	10.000
0028	204.0220	Removing Inlets	EACH	4.000	4.000
0030	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	116.000	116.000
0032	204.0245	Removing Storm Sewer (size) 02. 18-Inch	LF	90.000	90.000
0034	204.0245	Removing Storm Sewer (size) 03. 36-Inch	LF	191.000	191.000
0036	205.0100	Excavation Common	CY	18,124.000	18,124.000
0038	206.1000	Excavation for Structures Bridges (structure) 01. B-66-92	LS	1.000	1.000
0040	210.1500	Backfill Structure Type A	TON	10.000	10.000
0042	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	542.000	542.000
0046	213.0100	Finishing Roadway (project) 02. 2310-17-70	EACH	1.000	1.000
0048	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,646.000	2,646.000
0050	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	21,703.000	21,703.000
0052	310.0110	Base Aggregate Open-Graded	TON	14.000	14.000
0054	311.0110	Breaker Run	TON	8,262.000	8,262.000
0060	416.0160	Concrete Driveway 6-Inch	SY	16.000	16.000
0064	416.1010	Concrete Surface Drains	CY	18.000	18.000
0066	455.0605	Tack Coat	GAL	21,481.000	21,481.000
0068	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	2.000	2.000
0070	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000
0074	460.2005	Incentive Density PWL HMA Pavement	DOL	20,300.000	20,300.000
0076	460.2010	Incentive Air Voids HMA Pavement	DOL	38,550.000	38,550.000
0078	460.5223	HMA Pavement 3 LT 58-28 S	TON	23,146.000	23,146.000
0080	460.5224	HMA Pavement 4 LT 58-28 S	TON	15,475.000	15,475.000
0082	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	401.000	401.000
0086	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	51,909.000	51,909.000
0088	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	28,965.000	28,965.000

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Line	Item	Item Description	Unit	Total	Qty
0090	502.0100	Concrete Masonry Bridges	CY	83.000	83.000
0092	502.3200	Protective Surface Treatment	SY	360.000	360.000
0094	502.3210	Pigmented Surface Sealer	SY	74.000	74.000
0096	502.4206	Adhesive Anchors No. 6 Bar	EACH	160.000	160.000
0098	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	22,700.000	22,700.000
0100	509.0301	Preparation Decks Type 1	SY	2.000	2.000
0102	509.0302	Preparation Decks Type 2	SY	2.000	2.000
0104	509.0500	Cleaning Decks	SY	354.000	354.000
0106	509.1500	Concrete Surface Repair	SF	5.000	5.000
0108	509.2000	Full-Depth Deck Repair	SY	1.000	1.000
0110	509.2500	Concrete Masonry Overlay Decks	CY	31.000	31.000
0112	509.9010.S B-66-92	Removing Asphaltic Concrete Deck Overlay (structure)	SY	354.000	354.000
0114	516.0500	Rubberized Membrane Waterproofing	SY	6.000	6.000
0120	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	20.000	20.000
0132	520.3518	Culvert Pipe Class III-B 18-Inch	LF	270.000	270.000
0134	522.0118	Culvert Pipe Reinforced Concrete Class III 18-Inch	LF	184.000	184.000
0136	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	80.000	80.000
0142	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	6.000	6.000
0144	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000
0148	522.2319	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 19x30-Inch	LF	96.000	96.000
0150	522.2324	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 24x38-Inch	LF	88.000	88.000
0152	522.2619	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	EACH	2.000	2.000
0154	522.2624	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	EACH	2.000	2.000
0156	522.2629	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	2.000	2.000
0160	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	46.000	46.000
0162	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	LF	2,664.000	2,664.000
0174	606.0200	Riprap Medium	CY	139.000	139.000
0176	606.0300	Riprap Heavy	CY	30.000	30.000
0178	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	113.000	113.000
0182	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	89.000	89.000
0184	608.2329	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x45-Inch	LF	178.000	178.000

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Line	Item	Item Description	Unit	Total	Qty
0192	611.0530	Manhole Covers Type J	EACH	2.000	2.000
0196	611.0627	Inlet Covers Type HM	EACH	3.000	3.000
0204	611.2003	Manholes 3-FT Diameter	EACH	1.000	1.000
0206	611.2004	Manholes 4-FT Diameter	EACH	1.000	1.000
0208	611.2007	Manholes 7-FT Diameter	EACH	2.000	2.000
0212	611.3230	Inlets 2x3-FT	EACH	1.000	1.000
0214	612.0106	Pipe Underdrain 6-Inch	LF	195.000	195.000
0218	612.0806	Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	EACH	1.000	1.000
0220	614.0115	Anchorages for Steel Plate Beam Guard Type 2	EACH	1.000	1.000
0222	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000
0224	614.0305	Steel Plate Beam Guard Class A	LF	276.000	276.000
0226	614.0340	Steel Plate Beam Guard Over Low-Fill Culverts Class A	LF	100.000	100.000
0228	614.0345	Steel Plate Beam Guard Short Radius	LF	126.000	126.000
0230	614.0370	Steel Plate Beam Guard Energy Absorbing Terminal	EACH	3.000	3.000
0232	614.0390	Steel Plate Beam Guard Short Radius Terminal	EACH	5.000	5.000
0234	614.0395	Guardrail Mow Strip Concrete	SY	51.000	51.000
0236	614.2300	MGS Guardrail 3	LF	714.000	714.000
0238	614.2330	MGS Guardrail 3 K	LF	363.000	363.000
0240	614.2340	MGS Guardrail 3 L	LF	339.000	339.000
0242	614.2500	MGS Thrie Beam Transition	LF	118.000	118.000
0244	614.2610	MGS Guardrail Terminal EAT	EACH	9.000	9.000
0246	618.0100	Maintenance And Repair of Haul Roads (project) 02. 2310-17-70	EACH	1.000	1.000
0248	619.1000	Mobilization	EACH	0.650	0.650
0254	624.0100	Water	MGAL	366.000	366.000
0256	625.0500	Salvaged Topsoil	SY	27,298.000	27,298.000
0258	627.0200	Mulching	SY	17,419.000	17,419.000
0262	628.1504	Silt Fence	LF	16,374.000	16,374.000
0264	628.1520	Silt Fence Maintenance	LF	16,374.000	16,374.000
0266	628.1905	Mobilizations Erosion Control	EACH	20.000	20.000
0268	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000
0270	628.2004	Erosion Mat Class I Type B	SY	10,765.000	10,765.000
0274	628.2008	Erosion Mat Urban Class I Type B	SY	1,584.000	1,584.000
0280	628.7015	Inlet Protection Type C	EACH	8.000	8.000
0284	628.7504	Temporary Ditch Checks	LF	1,750.000	1,750.000
0286	628.7555	Culvert Pipe Checks	EACH	84.000	84.000
0288	628.7560	Tracking Pads	EACH	4.000	4.000
0290	628.7570	Rock Bags	EACH	40.000	40.000
0292	629.0210	Fertilizer Type B	CWT	17.200	17.200

2310-17-70

Line	Item	Item Description	Unit	Total	Qty
0294	630.0130	Seeding Mixture No. 30	LB	614.000	614.000
0296	630.0200	Seeding Temporary	LB	921.000	921.000
0298	630.0500	Seed Water	MGAL	460.000	460.000
0300	633.5200	Markers Culvert End	EACH	14.000	14.000
0302	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	88.000	88.000
0304	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	42.000	42.000
0306	635.0200	Sign Supports Structural Steel HS	LB	1,200.000	1,200.000
0308	636.0100	Sign Supports Concrete Masonry	CY	2.400	2.400
0310	636.0500	Sign Supports Steel Reinforcement	LB	136.000	136.000
0314	637.2210	Signs Type II Reflective H	SF	723.740	723.740
0316	637.2230	Signs Type II Reflective F	SF	231.410	231.410
0318	637.2235	Signs Type II Reflective F Folding	SF	18.750	18.750
0320	638.2102	Moving Signs Type II	EACH	7.000	7.000
0322	638.2602	Removing Signs Type II	EACH	97.000	97.000
0324	638.3000	Removing Small Sign Supports	EACH	120.000	120.000
0328	643.0300	Traffic Control Drums	DAY	7,200.000	7,200.000
0330	643.0420	Traffic Control Barricades Type III	DAY	33,600.000	33,600.000
0332	643.0705	Traffic Control Warning Lights Type A	DAY	64,800.000	64,800.000
0334	643.0715	Traffic Control Warning Lights Type C	DAY	1,350.000	1,350.000
0336	643.0900	Traffic Control Signs	DAY	61,125.000	61,125.000
0338	643.0920	Traffic Control Covering Signs Type II	EACH	20.000	20.000
0340	643.1000	Traffic Control Signs Fixed Message	SF	105.000	105.000
0342	643.1050	Traffic Control Signs PCMS	DAY	60.000	60.000
0344	643.5000	Traffic Control	EACH	0.900	0.900
0346	645.0111	Geotextile Type DF Schedule A	SY	109.000	109.000
0348	645.0120	Geotextile Type HR	SY	147.000	147.000
0350	645.0130	Geotextile Type R	SY	379.000	379.000
0352	646.1020	Marking Line Epoxy 4-Inch	LF	35,788.000	35,788.000
0354	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	64,813.000	64,813.000
0356	646.3020	Marking Line Epoxy 8-Inch	LF	3,050.000	3,050.000
0358	646.5020	Marking Arrow Epoxy	EACH	7.000	7.000
0360	646.5120	Marking Word Epoxy	EACH	7.000	7.000
0362	646.6120	Marking Stop Line Epoxy 18-Inch	LF	389.000	389.000
0372	648.0100	Locating No-Passing Zones	MI	6.430	6.430
0374	650.4000	Construction Staking Storm Sewer	EACH	9.000	9.000
0376	650.4500	Construction Staking Subgrade	LF	9,280.000	9,280.000
0378	650.5000	Construction Staking Base	LF	9,280.000	9,280.000
0380	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	2,710.000	2,710.000
0382	650.6000	Construction Staking Pipe Culverts	EACH	15.000	15.000
0384	650.6500	Construction Staking Structure Layout (structure) 01. B-	LS	1.000	1.000

					2310-17-70
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**
		66-0092			
0386	650.8000	Construction Staking Resurfacing Reference	LF	34,627.000	34,627.000
0394	650.9910	Construction Staking Supplemental Control (project) 02. 2310-17-70	LS	1.000	1.000
0396	650.9920	Construction Staking Slope Stakes	LF	10,393.000	10,393.000
0430	690.0150	Sawing Asphalt	LF	15,636.000	15,636.000
0432	690.0250	Sawing Concrete	LF	14.000	14.000
0436	715.0502	Incentive Strength Concrete Structures	DOL	684.000	684.000
0438	740.0440	Incentive IRI Ride	DOL	25,130.000	25,130.000
0440	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,000.000	2,000.000
0442	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,800.000	2,800.000
0444	SPV.0060	Special 01. Section Corner Monuments	EACH	12.000	12.000
0446	SPV.0090	Special 01. Steel Thrie Beam Structure Approach Curved	LF	21.000	21.000

CLEARING AND GRUBBING

STATION FROM	STATION TO	OFFSET	201.0105 CLEARING STA	201.0205 GRUBBING STA	201.0120 CLEARING ID	201.0220 GRUBBING ID
201+93		36' LT	--	--	8	8
204+71		68' RT	--	--	8	8
286+00	287+00	LT	1	1	--	--
300+00	302+00	LT	2	2	--	--
304+00	306+00	LT	2	2	--	--
306+18		57' RT	--	--	8	8
306+77		52' LT	--	--	8	8
349+00	351+00	RT	2	2	--	--
352+00	353+00	LT	1	1	--	--
355+00	357+00	LT	2	2	--	--
361+60		49' RT	--	--	8	8
408+62		53' RT	--	--	8	8
408+76		49' RT	--	--	8	8
436+00	439+00	RT	3	3	--	--
494+00	495+00	RT	1	1	--	--
TOTAL			14	14	56	56

REMOVING ASPHALT

STATION FROM	STATION TO	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY
188+60	249+07	338	843	19,631
266+78	416+04	892	1,294	48,561
416+04	456+50	86	153	13,233
473+93	555+40	373	545	26,910
TOTAL		1,689	2,835	108,335

REMOVING SMALL PIPE CULVERTS

STA	OFFSET	DESCRIPTION	LENGTH	203.0100 REMOVING SMALL PIPE CULVERTS EACH
241+15	37' RT	18" CMP	40'	1
273+98	34' RT	18" CMP	40'	1
282+63	39' LT	18" CMP	34'	1
283+93	104' RT	15" CMP	22'	1
285+75	38' LT	18" CMP	30'	1
300+93	39' RT	24" CMP	94'	1
310+52	50' RT	18" CMP	70'	1
328+72	39' LT	18" CMP	30'	1
350+36	34' RT	18" CACP	32'	1
351+57	39' LT	18" CMP	30'	1
353+22	43' RT	18" CACP	100'	1
355+57	37' LT	18" CMP	32'	1
361+68	44' RT	18" CMP	26'	1
409+02	38' RT	18" CMP	34'	1
438+76	43' RT	24" CMP	90'	1
516+49	38' LT	18" CMP	24'	1
517+83	49' RT	18" CMP	94'	1
TOTAL				17

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

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REMOVING CURB & GUTTER

ROADWAY	STATION FROM	STATION TO	SIDE	204.0150 REMOVING CURB & GUTTER LF
MAPLE RD	6+36	6+75	LT	54
MAPLE RD	6+33	6+73	RT	57
CENTER RD	2+28	2+86	LT	88
CENTER RD	2+43	2+84	RT	61
LUSAN DR	2+56	3+10	LT	98
LUSAN DR	2+68	3+08	RT	61
CHURCH DR	2+48	3+09	LT	90
CHURCH DR	2+68	3+07	RT	60
BRIARWOOD DR	2+53	3+13	LT	89
BRIARWOOD DR	2+69	3+10	RT	62
CTH M	49+41	49+77	LT	56
CTH M	49+25	49+74	RT	76
CTH M	50+29	50+74	LT	70
CTH M	50+25	52+00	RT	210
STH 60	364+43	371+90	LT	749
STH 60	407+19	407+62	LT	62
STH 60	408+22	408+80	LT	91
ELM DR	2+93	3+52	LT	88
ELM DR	3+09	3+49	RT	67
LIZBETH LN	2+86	3+48	LT	89
LIZBETH LN	3+10	3+49	RT	57
HORNS CORNERS RD	2+89	3+49	LT	98
HORNS CORNERS RD	3+12	3+48	RT	59
HORNS CORNERS RD	3+96	4+31	LT	59
HORNS CORNERS RD	3+98	5+39	RT	146
TOTAL				2,697

REMOVING CONCRETE

STATION FROM	STATION TO	204.0155 REMOVING CONCRETE SIDEWALK SY
369+37	369+64	16
TOTAL		16

REMOVING SURFACE DRAINS AND INLETS

STA	OFFSET	204.0190 REMOVING SURFACE DRAINS EACH	204.0220 REMOVING INLETS EACH
204+77	67' RT	1	--
205+22	69' RT	1	--
300+47	33' RT	1	--
310+23	55' RT	1	--
352+41	34' RT	1	--
353+87	31' RT	1	--
362+73	39' RT	1	--
363+11	79' LT	1	--
363+70	82' RT	1	--
407+45	33' LT	--	1
408+54	32' LT	--	1
517+21	33' LT	1	--
517+98	166' LT	--	1
518+11	50' LT	--	1
TOTAL		10	4

REMOVING GUARDRAIL

ROADWAY	STATION FROM	STATION TO	SIDE	204.0165 REMOVING GUARDRAIL LF
STH 60	194+35	203+86	LT	951
	200+86	203+61	RT	275
	204+43	204+80	RT	61
	204+67	206+03	LT	136
	232+90	234+30	RT	140
	233+07	234+23	LT	116
	397+26	398+66	RT	141
	397+26	398+66	LT	141
CTH M	50+78	51+95	RT	117
TOTAL				2,078

REMOVING STORM SEWER

STATION FROM	STATION TO	SIDE	MATERIAL	204.0245.0001 REMOVING STORM SEWER 12-INCH LF	204.0245.0002 REMOVING STORM SEWER 18-INCH LF	204.0245.0003 REMOVING STORM SEWER 36-INCH LF
406+93	408+81	LT	RCP	--	--	191
517+38	518+28	LT	RCP	--	90	--
517+97	518+09	LT	RCP	116	--	--
TOTAL				116	90	191

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

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EARTHWORK SUMMARY

Division	From/To Station	Location	Common Excavation (1) (item # 205.0100)		Salvaged/ Unusable Pavement Material	Available Material (4)	Unexpanded Fill	Expanded Fill (5)	Mass Ordinate +/- (6)	Waste (7)	Borrow	Comment
			Cut (2)	EBS Excavation (3)				Factor 1.20			(Item 208.0100)	
1	201+85 to 523+50	STH 60	13483	294	2239	11244	2345	2815	8429	8723	--	
	5+50 to 6+83	Maple Rd	265	5	32	233	62	74	158	163	--	
	0+00 to 2+94	Center Rd	584	10	90	494	1	1	493	503	--	
	2+53 to 3+18	Lusan Dr	264	7	88	176	2	2	174	181	--	
	2+42 to 3+17	Church Rd	240	7	83	157	2	2	156	162	--	
	2+46 to 3+20	Briarwood Dr	215	6	81	134	18	22	111	118	--	
	48+50 to 51+77	CTH M	980	20	213	767	102	122	645	665	--	
	0+13 to 0+89	Strawberry Glen Rd	342	12	174	168	1	2	167	179	--	
	2+85 to 3+59	Elm Dr	195	6	67	128	9	10	117	124	--	
	2+27 to 3+59	Lizbeth Ln	216	6	64	152	24	28	124	131	--	
	2+85 to 4+62	Horns Corners Rd	951	16	155	796	4	5	791	807	--	
Division 1 Subtotal			17735	389	3286	14449	2569	3083	11366	11755	0	
Grand Total			17735	389	3286	14449	2569	3083	11366	11755	0	
		Total Common Exc		18124								

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
2) Salvaged/Unsuable Pavement Material is included in Cut - Not shown in Earthwork Detail Sheets
3) EBS is estimated at 12" deep over 5% of total area. Assumes all EBS will be wasted. EBS areas are to be backfilled with Breaker Run.
4) Available Material = Cut - Salvaged/Unusuable Pavement Material
5) Expanded Fill. Factor = 1.20
   Expanded Fill = Unexpanded Fill * Fill Factor
6) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.
   Mass Ordinate = Available Material - Expanded Fill
7) Waste = Mass Ordinate + EBS Excavation

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\030201-MQ.DWG
LAYOUT NAME - 030201-MQ - 030203
PLOT DATE : 4/26/2018 12:11 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 42

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AGGREGATE ITEMS

STATION FROM	STATION TO	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	311.0110 BREAKER RUN TON	624.0100 WATER MGAL
188+60	249+07	118	391	579	450	15
266+78	416+04	216	1,439	14,726	5,428	242
416+04	456+50	69	293	2,085	62	36
473+93	555+40	139	523	4,313	2,322	73
TOTAL		542	2,646	21,703	8,262	366

CONCRETE ITEMS

ROADWAY	STATION FROM	STATION TO	416.0160 CONCRETE DRIVEWAY 6-INCH SY	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D* LF	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D* LF
MAPLE RD	201+00	207+00	--	--	121
CENTER RD	281+00	287+00	--	--	173
LUSAN DR	296+00	302+00	--	--	141
CHURCH RD	308+00	314+00	--	--	150
BRIARWOOD DR	349+00	355+00	--	--	151
CTH M	361+00	373+00	16	--	1,177
STRAWBERRY GLEN RD	405+00	411+00	--	--	151
ELM RD	436+00	442+00	--	--	151
LIZBETH LN	492+00	498+00	--	--	150
HORNS CORNERS RD	514+00	519+00	--	46	299
	TOTAL		16	46	2,664

* 6.25% GUTTER CROSS SLOPE

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CONCRETE SURFACE DRAIN ITEMS

ROADWAY	STATION FROM	STATION TO	416.1010 CONCRETE SURFACE DRAINS CY	606.0200 * RIPRAP MEDIUM CY	645.0130 GEOTEXTILE TYPE R SY
MAPLE RD	201+00	207+00	3	5	47
CENTER RD	281+00	287+00	2	5	46
LUSAN DR	296+00	302+00	1	4	28
CHURCH RD	308+00	314+00	1	4	29
BRIARWOOD DR	349+00	355+00	2	4	31
CTH M	361+00	373+00	3	7	62
ELM RD	436+00	442+00	2	5	47
LIZBETH LN	492+00	498+00	1	4	27
HORNS CORNERS RD	514+00	519+00	3	7	62
	TOTAL		18	45	379

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE - SEE RIPRAP ITEMS

ASPHALTIC PAVEMENT ITEMS

STATION FROM	STATION TO	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	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL LF	465.0475 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL LF
188+60	249+07	3,566	3,322	2,581	76	10,669	5,646
266+78	416+04	10,239	11,726	7,368	225	21,035	12,526
416+04	456+50	2,513	2,645	1,806	32	6,944	3,646
473+93	555+40	5,163	5,453	3,720	68	13,261	7,147
TOTAL		21,481	23,146	15,475	401	51,909	28,965

NOTE: ALL SHOULDER RUMBLE STRIPS SHALL BE TYPE 1.

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	MISCELLANEOUS QUANTITIES	SHEET 172	E

HMA PERCENT WITHIN LIMITS (PWL) ITEMS

ROADWAY	LOCATION	STATION FROM	STATION TO	MIXTURE USE	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS	QUALITY MANAGEMENT PROGRAM TO BE USED FOR: MIXTURE ACCEPTANCE	QUALITY MANAGEMENT PROGRAM TO BE USED FOR: DENSITY ACCEPTANCE	460.2005 INCENTIVE DENSITY PWL HMA PAVEMENT DOL	460.2010 INCENTIVE AIR VOIDS HMA PAVEMENT DOL	SPV.0060.02 HMA PWL TEST STRIP VOLUMETRICS EACH	SPV.0060.03 HMA PWL TEST STRIP DENSITY EACH
STH 60	12-FT DRIVING LANES	188+60	249+07	UPPER LAYER	3 LT 58-28 S	4 LT 58-28 S	1,601	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005	1,601	1,601	1	1
STH 60	12-FT DRIVING LANES	188+60	249+07	LOWER LAYER	EXISTING MILLED HMA	3 LT 58-28 S	2,058	2 1/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005	2,058	2,058	1	1
STH 60	6-FT SHOULDERS	188+60	249+07	UPPER LAYER	3 LT 58-28 S	4 LT 58-28 S	881	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	--	881	--	--
STH 60	6-FT SHOULDERS	188+60	249+07	LOWER LAYER	EXISTING MILLED HMA / BASE AGGREGATE	3 LT 58-28 S	1,133	2 1/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	--	1,133	--	--
STH 60	TURN LANES / BYPASS LANES / INTERSECTIONS	188+60	249+07	UPPER LAYER	3 LT 58-28 S	4 LT 58-28 S	35	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	--	35	--	--
STH 60	TURN LANES / BYPASS LANES / INTERSECTIONS	188+60	249+07	UPPER-LOWER LAYER	3 LT 58-28 S	3 LT 58-28 S	45	2 1/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	--	45	--	--
STH 60	TURN LANES / BYPASS LANES / INTERSECTIONS	188+60	249+07	LOWER-LOWER LAYER	BASE AGGREGATE	3 LT 58-28 S	50	2 1/2"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	--	50	--	--
STH 60	12-FT DRIVING LANES	266+78	456+50	UPPER LAYER	3 LT 58-28 S	4 LT 58-28 S	5,091	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005	5,091	5,091	--	--
STH 60	12-FT DRIVING LANES	266+78	456+50	LOWER LAYER	EXISTING MILLED HMA	3 LT 58-28 S	6,546	2 1/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005	6,546	6,546	--	--
STH 60	6-FT SHOULDERS	266+78	456+50	UPPER LAYER	3 LT 58-28 S	4 LT 58-28 S	1,942	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	--	1,942	--	--
STH 60	6-FT SHOULDERS	266+78	456+50	LOWER LAYER	EXISTING MILLED HMA / BASE AGGREGATE	3 LT 58-28 S	2,496	2 1/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	--	2,496	--	--
STH 60	TURN LANES / BYPASS LANES / INTERSECTIONS	266+78	456+50	UPPER LAYER	3 LT 58-28 S	4 LT 58-28 S	1,821	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	--	1,821	--	--
STH 60	TURN LANES / BYPASS LANES / INTERSECTIONS	266+78	456+50	UPPER-LOWER LAYER	3 LT 58-28 S	3 LT 58-28 S	2,341	2 1/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	--	2,341	--	--
STH 60	TURN LANES / BYPASS LANES / INTERSECTIONS	266+78	456+50	LOWER-LOWER LAYER	BASE AGGREGATE	3 LT 58-28 S	2,601	2 1/2"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	--	2,601	--	--
STH 60	12-FT DRIVING LANES	473+93	555+40	UPPER LAYER	3 LT 58-28 S	4 LT 58-28 S	2,186	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005	2,186	2,186	--	--
STH 60	12-FT DRIVING LANES	473+93	555+40	LOWER LAYER	EXISTING MILLED HMA	3 LT 58-28 S	2,811	2 1/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005	2,811	2,811	--	--
STH 60	6-FT SHOULDERS	473+93	555+40	UPPER LAYER	3 LT 58-28 S	4 LT 58-28 S	945	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	--	945	--	--
STH 60	6-FT SHOULDERS	473+93	555+40	LOWER LAYER	EXISTING MILLED HMA / BASE AGGREGATE	3 LT 58-28 S	1,215	2 1/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	--	1,215	--	--
STH 60	TURN LANES / BYPASS LANES / INTERSECTIONS	473+93	555+40	UPPER LAYER	3 LT 58-28 S	4 LT 58-28 S	486	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	--	486	--	--
STH 60	TURN LANES / BYPASS LANES / INTERSECTIONS	473+93	555+40	UPPER-LOWER LAYER	3 LT 58-28 S	3 LT 58-28 S	625	2 1/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	--	625	--	--
STH 60	TURN LANES / BYPASS LANES / INTERSECTIONS	473+93	555+40	LOWER-LOWER LAYER	BASE AGGREGATE	3 LT 58-28 S	694	2 1/2"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	--	694	--	--
SIDE ROADS	12-FT DRIVING LANES / SHOULDERS	VARIOUS	VARIOUS	UPPER LAYER	3 LT 58-28 S	4 LT 58-28 S	411	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	--	411	--	--
SIDE ROADS	12-FT DRIVING LANES / SHOULDERS	VARIOUS	VARIOUS	LOWER LAYER	EXISTING MILLED HMA / BASE AGGREGATE	3 LT 58-28 S	528	2 1/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE	--	528	--	--
										TOTAL	20,300	38,550	2	2

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

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CULVERTS

ROADWAY	STATION / OFFSET INLET	STATION / OFFSET DISCH	INVERT ELEV. INLET	INVERT ELEV. DISCH	SLOPE, %	520.3518 CULVERT PIPE CLASS III-B 18-INCH LF	522.0118 CULVERT PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	522.2319 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 19X30-INCH LF	522.2324 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 24X38-INCH LF	520.1018 APRON ENDWALLS FOR CULVERT PIPE 18-INCH EACH	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE * 18-INCH EACH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.2619 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19X30-INCH EACH	522.2624 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24X38-INCH EACH	633.5200 * MARKERS CULVERT END EACH
STH 60	282+46.3, 46.3' LT	282+76.3, 46.1' LT	876.79	876.25	1.80%	30	--	--	--	--	2	--	--	--	--	--
	285+58.0, 43.9' LT	285+82.0, 42.2' LT	870.37	870.25	0.50%	24	--	--	--	--	2	--	--	--	--	--
	300+38.6, 45.5' RT	301+34.6, 44.0' RT	879.98	879.69	0.30%	--	--	--	96	--	--	--	--	2	--	2
	306+02.0, 45.5' LT	306+30.0, 45.5' LT	871.21	870.54	2.40%	28	--	--	--	--	2	--	--	--	--	--
	310+03.2, 52.5' RT	310+90.9, 51.1' RT	857.48	856.60	1.00%	--	88	--	--	--	--	2	--	--	--	2
	310+43.9, 44.5' LT	310+68.0, 44.5' LT	858.22	857.57	2.72%	24	--	--	--	--	2	--	--	--	--	--
	350+17.9, 46.6' RT	350+48.0, 46.6' RT	868.63	868.51	0.40%	30	--	--	--	--	2	--	--	--	--	--
	351+42.0, 41.0' LT	351+66.0, 41.8' LT	868.19	868.01	0.75%	24	--	--	--	--	2	--	--	--	--	--
	352+70.4, 50.8' RT	353+66.4, 48.5' RT	867.27	866.69	0.60%	--	96	--	--	--	--	2	--	--	--	2
	355+44.0, 40.3' LT	355+70.0, 39.1' LT	864.30	863.96	1.30%	26	--	--	--	--	2	--	--	--	--	--
	361+55.0, 45.2' RT	361+85.0, 46.2' RT	859.89	859.80	0.30%	30	--	--	--	--	2	--	--	--	--	--
	408+88.1, 43.5' RT	409+18.0, 43.4' RT	860.40	860.33	0.25%	30	--	--	--	--	2	--	--	--	--	--
	439+13.1, 53.1' RT	438+33.1, 54.3' RT	879.84	879.20	0.80%	--	--	80	--	--	--	--	2	--	--	2
	518+19.2, 53.8' RT	517+31.2, 53.9' RT	870.03	869.77	0.30%	--	--	--	--	88	--	--	--	--	2	2
CENTER RD	2+12.0, 29.4' LT	1+88.0, 26.2' LT	872.34	872.26	0.30%	24	--	--	--	--	2	--	--	--	--	--
TOTAL						270	184	80	96	88	20	4	2	2	2	10

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE - SEE CONCRETE SURFACE DRAINS ITEMS

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

STORM SEWER PIPES

ROADWAY	PIPE ID	STRUCTURE FROM	STRUCTURE TO	INVERT ELEV. INLET	INVERT ELEV. DISCH	SLOPE, %	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.2329 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 29X45-INCH LF
STH 60	P100	S100	S101	858.92	858.79	0.50%	--	--	25
	P101	S101	S102	858.79	858.26	0.50%	--	--	107
	P102	S102	S103	858.26	858.03	0.50%	--	--	46
HORNS CORNERS RD	PE200	--	S201	--	872.51	--	--	--	--
	P201	S201	S202	870.85	870.45	0.50%	79	--	--
	P202	S202	S203	870.35	870.18	0.50%	34	--	--
	P202A	S202A	S203	871.90	869.89	4.92%	--	41	--
	P203	S203	S204	869.79	869.55	0.50%	--	48	--
TOTAL							113	89	178

STORM SEWER STRUCTURES

ROADWAY	STR NO.	STATION/OFFSET	RIM ELEV.	INV. ELEV.	611.2003 MANHOLES 3-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0627 INLET COVERS TYPE HM EACH	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE * 18-INCH EACH	522.2629 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 29X45-INCH EACH	633.5200 * MARKERS CULVERT END EACH
STH 60	S100	408+75.6, 44.9' LT	--	858.92	--	--	--	--	--	--	--	1	1
	S101	408+51.3, 38.2' LT	862.67	858.79	--	--	1	--	--	1	--	--	--
	S102	407+44.3, 38.2' LT	862.12	858.26	--	--	1	--	--	1	--	--	--
	S103	406+98.6, 43.4' LT	--	858.03	--	--	--	--	--	--	--	1	1
HORNS CORNERS RD	S201	5+39.1, 15.0' RT	874.31	870.85	--	--	--	1	--	1	--	--	--
	S202	4+60.2, 6.0' RT	875.16	870.35	1	--	--	--	1	--	--	--	--
	S202A	4+23.5, 46.8' RT	--	871.90	--	--	--	--	--	--	1	--	1
	S203	4+26.1, 6.0' RT	875.42	869.79	--	1	--	--	1	--	--	--	--
	S204	4+26.0, 41.7' LT	--	869.55	--	--	--	--	--	--	1	--	1
TOTAL					1	1	2	1	2	3	2	2	4

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE - SEE CULVERT ITEMS

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

RIPRAP ITEMS

ROADWAY	STA	OFFSET	606.0200 * RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY
STH 60	282+76	46' LT	5	8
	285+82	42' LT	5	8
	301+35	44' RT	6	10
	306+30	46' LT	5	8
	310+91	51' RT	5	8
	310+68	45' LT	5	8
	350+48	44' RT	5	8
	351+66	42' LT	5	8
	353+66	49' RT	5	8
	355+70	39' LT	5	8
	361+85	46' RT	5	8
	406+93	44' LT	9	13
	409+18	45' RT	5	8
	438+33	54' RT	6	9
	517+31	54' RT	8	11
	517+36	53' LT	5	8
CENTER RD	1+88	26' LT	5	8
TOTAL			94	147

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE - SEE CONCRETE SURFACE DRAIN ITEMS

PIPE UNDERDRAIN ITEMS

FROM STA	FROM OFFSET	TO STA	TO OFFSET	310.0110 BASE AGGREGATE OPEN-GRADED TON	612.0106 PIPE UNDERDRAIN 6-INCH LF	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY
362+95	81' RT	364+15	29' RT	10	145	1	81
517+89	86' LT	518+17	53' LT	4	50	--	28
TOTAL				14	195	1	109

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

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BEAM GUARD ITEMS

ROADWAY	STATION FROM	STATION TO	SIDE	614.0115 ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2 EACH	SPV.0090.01 STEEL THRIE BEAM STRUCTURE APPROACH CURVED LF	614.0305 STEEL PLATE BEAM GUARD CLASS A LF	614.0340 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A LF	614.0345 STEEL PLATE BEAM GUARD SHORT RADIUS LF	614.0370 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL EACH	614.0390 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL EACH	614.0395 GUARDRAIL MOW STRIP CONCRETE SY	614.2300 MGS GUARDRAIL 3 LF	614.2330 MGS GUARDRAIL 3 K LF	614.2340 MGS GUARDRAIL 3L LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	614.2500 MGS THRIE BEAM TRANSITION LF
STH 60	195+08	206+18	LT	--	--	--	--	--	--	--	--	488	363	--	2	79
	201+60	204+78	RT	--	21	--	--	50	--	1	--	113	--	--	1	39
	231+92	235+03	LT	--	--	63	100	50	2	2	--	--	--	--	--	--
	232+10	234+66	RT	--	--	--	--	--	--	--	--	38	--	113	2	--
	364+80	366+38	LT	--	--	100	--	13	1	1	--	--	--	--	--	--
	396+59	399+03	RT	--	--	--	--	--	--	--	--	25	--	113	2	--
	396+90	399+59	LT	--	--	--	--	--	--	--	--	50	--	113	2	--
CTH M	50+84	52+03	RT	1	--	113	--	13	--	1	51	--	--	--	--	--
TOTAL				1	21	276	100	126	3	5	51	714	363	339	9	118

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

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3

RESTORATION ITEMS

STATION FROM	STATION TO	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
188+60	249+07	3,930	2,475	2.5	71	106	66
266+78	416+04	16,150	10,387	10.2	291	436	272
416+04	456+50	2,138	1,156	1.3	38	58	36
473+93	555+40	5,080	3,401	3.2	91	137	86
UNDISTRIBUTED		--	--	--	123	184	--
TOTAL		27,298	17,419	17.2	614	921	460

EROSION CONTROL ITEMS

STATION FROM	STATION TO	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2004 EROSION MAT CLASS I TYPE B SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7015 INLET PROTECTION TYPE C EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS* EACH	628.7560 TRACKING PADS EACH	628.7570 ROCK BAGS EACH
188+60	249+07	1,595	1,595	--	--	232	1,223	--	200	2	--	--
266+78	416+04	7,673	7,673	--	--	5,719	44	4	840	49	--	--
416+04	456+50	1,189	1,189	--	--	982	--	2	120	3	--	--
473+93	555+40	2,642	2,642	--	--	1,679	--	--	240	13	--	--
UNDISTRIBUTED		3,275	3,275	20	5	2,153	317	2	350	17	4	40
TOTAL		16,374	16,374	20	5	10,765	1,584	8	1,750	84	4	40

*SEE TABLE FOR ESTIMATED NUMBER OF BAGS PER PIPE.

ESTIMATED BAG SIZE = 18" X 12" X 6"	
PIPE SIZE	ESTIMATED NUMBER OF BAGS
18"	2
24"	3
30"	5
36"	7
19"x30"	5
24"X38"	7
29"X45"	10

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2235 SIGNS TYPE II REFLC F FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 POSTS WOOD 4"X6"x18' [EA]	634.0814 POSTS TUBULAR STEEL 2"x2"x14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]
1	R3-8W(2S)	II	--	54	x	30	11.250	--	--	1	1	2	--	--	--	--	--	--	--	--
2	R2-1(3)	II	35 MPH	36	x	48	12.000	--	--	1	1	1	--	--	--	--	--	--	--	--
3	I2-3	II	JACKSON POPULATION 6753	60	x	24	10.000	--	--	1	1	1	--	--	--	--	--	--	--	--
4	W3-5(2S)	II	--	36	x	36	--	9.000	--	1	1	1	--	--	--	--	--	--	--	--
5	R2-1(2S)	II	55 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--	--	--	--	--	--
6	W14-3(2S)	II	--	48	x	36	--	5.560	--	1	1	1	--	--	--	--	--	--	--	--
7	W5-52L(2S)	II	--	12	x	36	--	3.000	--	--	--	1	--	--	--	4 FT MOUNTING HEIGHT	--	--	--	--
8	W5-52R(2S)	II	--	12	x	36	--	3.000	--	1	1	1	--	--	--	4 FT MOUNTING HEIGHT	--	--	--	--
9	W1-7(2S)	II	--	48	x	24	--	8.000	--	1	2	1	--	--	--	--	--	--	--	--
10	W5-52R(2S)	II	--	12	x	36	--	3.000	--	1	1	1	--	--	--	4 FT MOUNTING HEIGHT	--	--	--	--
11	W5-52L(2S)	II	--	12	x	36	--	3.000	--	1	1	1	--	--	--	4 FT MOUNTING HEIGHT	--	--	--	--
12	R1-1(2S)	II	--	30	x	30	5.180	--	--	1	1	1	--	--	--	--	--	--	--	--
13	I55-56	--	--	--	x	--	--	--	--	--	1	1	--	1	--	--	--	--	--	--
14	W14-3(2S)	II	--	48	x	36	--	5.560	--	1	1	1	--	--	--	--	--	--	--	--
15	W14-3(2S)	II	--	48	x	36	--	5.560	--	1	1	1	--	--	--	--	--	--	--	--
16	J1-1(2S) M2-1 M1-5A	II	-- -- CTH G	24 21 24	x x x	39 15 24	6.500	--	--	1	1	1	--	--	--	--	--	--	--	--
17	W2-6(2S)	II	--	30	x	30	--	6.250	--	1	1	1	--	--	--	ALSO REMOVE W13-1	--	--	--	--
18	W13-1(2S)	II	15 MPH	18	x	18	--	2.250	--	--	--	--	--	--	17	--	--	--	--	--
19	D1-62	II	EAST NORTH [60] SOUTH [G] [A] [G]	108	x	72	54.000	--	--	--	--	--	--	--	--	INSTALL ON STEEL POSTS	A	1.2	68	600
20	W14-3(2S)	II	--	48	x	36	--	5.560	--	1	1	1	--	--	--	--	--	--	--	--
21	R5-1(2S)	II	--	30	x	30	6.250	--	--	1	1	--	1	--	--	--	--	--	--	--
22	R2-1(2S)	II	55 MPH	24	x	30	5.000	--	--	1	1	--	1	--	--	--	--	--	--	--
23	W12-1R(2S)	II	--	24	x	24	--	4.000	--	1	1	--	1	--	--	2 FT MOUNTING HEIGHT	--	--	--	--
24	R5-1A(2S)	II	--	36	x	24	6.000	--	--	1	1	--	1	--	--	--	--	--	--	--
25	J4-1(2S) M3-4 M1-6	II	-- -- STH 60	24 24 24	x x x	36 12 24	6.000	--	--	--	--	--	--	--	24	--	--	--	--	--
26	D1-2	II	WEST [60] [A]	42	x	30	8.750	--	--	1	2	--	2	--	--	--	--	--	--	--
27	R1-2(2S)	II	--	36	x	31	3.880	--	--	1	1	--	1	--	--	--	--	--	--	--
28	R1-54(2S)	II	--	24	x	15	2.500	--	--	--	--	--	--	--	27	--	--	--	--	--
29	R1-2(2S)	II	--	36	x	31	3.880	--	--	1	1	--	1	--	--	--	--	--	--	--
30	R6-2R(2S)	II	--	24	x	30	5.000	--	--	--	--	--	--	--	29	--	--	--	--	--
31	D1-2	II	[G] NORTH DIVISION RD [A]	72	x	30	15.000	--	--	1	2	--	2	--	--	--	--	--	--	--
32	R1-2(2S)	II	--	36	x	31	3.880	--	--	1	1	--	1	--	--	--	--	--	--	--
33	R1-54(2S)	II	--	24	x	15	2.500	--	--	--	--	--	--	--	32	--	--	--	--	--
34	R1-2(2S)	II	--	36	x	31	3.880	--	--	1	1	--	1	--	--	--	--	--	--	--
35	R6-2R(2S)	II	--	24	x	30	5.000	--	--	--	--	--	--	--	34	--	--	--	--	--
36	D1-2	II	EAST [60] [A]	42	x	30	8.750	--	--	1	2	--	2	--	--	--	--	--	--	--
37	R4-7(3)	II	--	36	x	48	12.000	--	--	1	1	--	1	--	--	--	--	--	--	--
38	W5-54(2S)	II	--	18	x	18	2.250	--	--	--	--	--	--	--	37	--	--	--	--	--
39	R2-1(2S)	II	55 MPH	24	x	30	5.000	--	--	1	1	--	1	--	--	--	--	--	--	--

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2235 SIGNS TYPE II REFLC F FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 POSTS WOOD 4"X6"x18' [EA]	634.0814 POSTS TUBULAR STEEL 2"x2"x14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]
40	J4-1(2S)	II	--	24 x 36	6.000	--	--	1	1	--	1	--	--	--	--	--	--	
	M3-2		--	24 x 12														
	M1-6		STH 60	24 x 24														
41	R1-2(2S)	II	--	36 x 31	3.880	--	--	1	1	--	1	--	--	--	--	--	--	
42	R1-54(2S)	II	--	24 x 15	2.500	--	--	--	--	--	--	--	41	--	--	--	--	
43	R1-2(2S)	II	--	36 x 31	3.880	--	--	1	1	--	1	--	--	--	--	--	--	
44	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	--	--	--	--	43	--	--	--	--	
45	R4-7(2S)	II	--	24 x 30	5.000	--	--	1	1	--	1	--	--	--	--	--	--	
46	W5-54(2S)	II	--	18 x 18	--	2.250	--	--	--	--	--	--	45	--	--	--	--	
47	D1-2	II	[G] SOUTH DIVISION RD [A]	72 x 30	15.000	--	--	1	2	--	2	--	--	--	--	--	--	
48	R6-1R(2S)	II	--	36 x 12	3.000	--	--	1	2	--	2	--	--	--	--	--	--	
49	R6-4B(2S)	II	--	60 x 24	10.000	--	--	--	--	--	--	--	48	4 FT MOUNTING HEIGHT	--	--	--	
50	R6-1R(2S)	II	--	36 x 12	3.000	--	--	1	2	--	2	--	--	--	--	--	--	
51	R6-4B(2S)	II	--	60 x 24	10.000	--	--	--	--	--	--	--	50	4 FT MOUNTING HEIGHT	--	--	--	
52	R6-1R(2S)	II	--	36 x 12	3.000	--	--	1	2	--	2	--	--	--	--	--	--	
53	R6-4B(2S)	II	--	60 x 24	10.000	--	--	--	--	--	--	--	52	4 FT MOUNTING HEIGHT	--	--	--	
54	R6-1R(2S)	II	--	36 x 12	3.000	--	--	1	2	--	2	--	--	--	--	--	--	
55	R6-4B(2S)	II	--	60 x 24	10.000	--	--	--	--	--	--	--	54	4 FT MOUNTING HEIGHT	--	--	--	
56	R1-2(2S)	II	--	36 x 31	3.880	--	--	1	1	--	1	--	--	--	--	--	--	
57	R1-54(2S)	II	--	24 x 15	2.500	--	--	--	--	--	--	--	56	--	--	--	--	
58	R1-2(2S)	II	--	36 x 31	3.880	--	--	1	1	--	1	--	--	--	--	--	--	
59	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	--	--	--	--	58	--	--	--	--	
60	R4-7(3)	II	--	36 x 48	12.000	--	--	1	1	--	1	--	--	--	--	--	--	
61	W5-54(2S)	II	--	18 x 18	--	2.250	--	--	--	--	--	--	60	--	--	--	--	
62	D1-61	II	[A] DIVISION RD [A]	66 x 24	11.000	--	--	1	2	--	2	--	--	--	--	--	--	
63	W3-2(2S)	II	--	36 x 36	--	9.000	--	1	1	--	1	--	--	--	--	--	--	
64	D1-61	II	[A] DIVISION RD [A]	66 x 24	11.000	--	--	1	2	--	2	--	--	--	--	--	--	
65	W3-2(2S)	II	--	36 x 36	--	9.000	--	1	1	--	1	--	--	--	--	--	--	
66	D1-62	II	WEST SOUTH [60] NORTH [G] [A] [60]	108 x 72	54.000	--	--	--	--	--	--	--	--	INSTALL ON STEEL POSTS	A	1.2	68	600
67	W2-6(2S)	II	--	30 x 30	--	6.250	--	1	1	1	--	--	--	--	--	--	--	
	W13-1(2S)	II	15 MPH	18 x 18	--	2.250	--	--	--	--	--	--	--	--	--	--	--	
68	J1-1(2S)	II	--	24 x 39	6.500	--	--	1	1	1	--	--	--	--	--	--	--	
	M2-1		--	21 x 15														
	M1-5A		CTH G	24 x 24														
69	R5-1(2S)	II	--	30 x 30	6.250	--	--	1	1	--	1	--	--	--	--	--	--	
70	W1-7(2S)	II	--	48 x 24	--	8.000	--	--	--	1	--	--	--	--	--	--	--	
71	R1-1(2S)	II	--	30 x 30	5.180	--	--	1	1	1	--	--	--	--	--	--	--	
72	R5-99(2S)	II	--	42 x 24	7.000	--	--	1	1	1	--	--	--	--	--	--	--	
73	W1-7(2S)	II	--	48 x 24	--	8.000	--	--	--	1	--	--	--	--	--	--	--	
74	R1-1(2S)	II	--	30 x 30	5.180	--	--	1	1	1	--	--	--	--	--	--	--	
75	I55-56	--	--	-- x --	--	--	--	--	1	1	--	1	--	--	--	--	--	
76	R1-1(2S)	II	--	30 x 30	5.180	--	--	1	1	1	--	--	--	--	--	--	--	
77	I55-56	--	--	-- x --	--	--	--	--	1	1	--	1	--	--	--	--	--	
78	W14-3(2S)	II	--	48 x 36	--	5.560	--	1	1	1	--	--	--	--	--	--	--	

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2235 SIGNS TYPE II REFLC F FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 POSTS WOOD 4"X6"x18' [EA]	634.0814 POSTS TUBULAR STEEL 2"x2"x14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]
79	W14-3(2S)	II	--	48 x 36	--	5.560	--	1	1	1	--	--	--	--	--	--	--	--
80	W1-7(2S)	II	--	48 x 24	--	8.000	--	--	--	1	--	--	--	--	--	--	--	--
81	R1-1(2S)	II	--	30 x 30	5.180	--	--	1	1	1	--	--	--	--	--	--	--	--
82	J1-1(2S)	II	--	24 x 39	6.500	--	--	1	1	1	--	--	--	--	--	--	--	--
	M2-1		--	21 x 15														
	M1-5A		CTH M	24 x 24														
83	D12-2A(2S)	II	--	60 x 42	17.500	--	--	1	2	2	--	--	--	--	--	--	--	--
84	J13-1(2S)	II	--	24 x 45	7.500	--	--	1	1	1	--	--	--	--	--	--	--	--
	M1-6		STH 60	24 x 24														
	M6-4		--	21 x 21														
85	R1-1(2S)	II	--	30 x 30	5.180	--	--	1	1	1	--	--	--	--	--	--	--	--
86	J13-1(2S)	II	--	24 x 45	7.500	--	--	1	1	1	--	--	--	--	--	--	--	--
	M1-5A		CTH M	24 x 24														
	M6-4		--	21 x 21														
87	R59-51(2S)	II	--	36 x 36	9.000	--	--	1	1	1	--	--	--	--	--	--	--	--
88	J13-1(2S)	II	--	24 x 45	7.500	--	--	1	1	1	--	--	--	--	--	--	--	--
	M1-6		STH 60	24 x 24														
	M6-4		--	21 x 21														
89	R1-1(2S)	II	--	30 x 30	5.180	--	--	1	1	1	--	--	--	--	--	--	--	--
90	J13-1(2S)	II	--	24 x 45	7.500	--	--	1	1	1	--	--	--	--	--	--	--	--
	M1-5A		CTH M	24 x 24														
	M6-4		--	21 x 21														
91	J1-1(2S)	II	--	24 x 39	6.500	--	--	1	1	1	--	--	--	--	--	--	--	--
	M2-1		--	21 x 15														
	M1-5A		CTH M	24 x 24														
92	W14-3(2S)	II	--	48 x 36	--	5.560	--	1	1	1	--	--	--	--	--	--	--	--
93	W11-6F(2S)	II	--	30 x 30	--	--	6.250	1	1	1	--	--	--	FOLDING SIGN	--	--	--	--
94	W14-3(2S)	II	--	48 x 36	--	5.560	--	1	1	1	--	--	--	--	--	--	--	--
95	J4-1	--	--	-- x --	--	--	--	1	1	--	--	--	--	REMOVE	--	--	--	--
96	J4-1	--	--	-- x --	--	--	--	1	1	--	--	--	--	REMOVE	--	--	--	--
97	W11-6F(2S)	II	--	30 x 30	--	--	6.250	1	1	1	--	--	--	FOLDING SIGN	--	--	--	--
98	R1-1(2S)	II	--	30 x 30	5.180	--	--	1	1	1	--	--	--	--	--	--	--	--
99	W1-7(2S)	II	--	48 x 24	--	8.000	--	--	--	1	--	--	--	--	--	--	--	--
100	I55-56	II	--	-- x --	--	--	--	--	1	1	--	1	--	--	--	--	--	--
101	I2-2	II	WASHINGTON CO	84 x 15	8.750	--	--	1	2	2	--	--	--	--	--	--	--	--
102	I2-2	II	OZAUKEE CO	66 x 15	6.875	--	--	1	2	2	--	--	--	--	--	--	--	--
103	W14-3(2S)	II	--	48 x 36	--	5.560	--	1	1	1	--	--	--	--	--	--	--	--
104	W1-7(2S)	II	--	48 x 24	--	8.000	--	--	--	1	--	--	--	--	--	--	--	--
105	R1-1(2S)	II	--	30 x 30	5.180	--	--	1	1	1	--	--	--	--	--	--	--	--
106	J1-1(2S)	II	--	24 x 39	6.500	--	--	1	1	1	--	--	--	--	--	--	--	--
	M2-1		--	21 x 15														
	M1-5A		CTH Y	24 x 24														
107	W2-1	--	--	-- x --	--	--	--	1	1	--	--	--	--	ALSO REMOVE GRANVILLE RD	--	--	--	--

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2235 SIGNS TYPE II REFLC F FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 POSTS WOOD 4"X6"x18' [EA]	634.0814 POSTS TUBULAR STEEL 2"x2"x14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]
108	J1-1(2S)	II	--	24 x 39	6.500	--	--	1	1	1	--	--	--	--	--	--	--
	M2-1		--	21 x 15														
	M1-5A		CTH Y	24 x 24														
109	W1-7(2S)	II	--	48 x 24	--	8.000	--	--	--	1	--	--	--	--	--	--	--
110	I55-56	--	--	-- x --	--	--	--	--	1	1	--	1	--	--	--	--	--	--
111	R1-1(2S)	II	--	30 x 30	5.180	--	--	1	1	1	--	--	--	--	--	--	--	--
112	W14-3(2S)	II	--	48 x 36	--	5.560	--	1	1	1	--	--	--	--	--	--	--	--
113	D1-61	II	[A] HORNS CORNERS RD [A]	96 x 24	16.000	--	--	1	2	2	--	--	--	--	--	--	--	--
114	R1-1(3)	II	--	36 x 36	7.460	--	--	1	1	1	--	--	--	--	--	--	--	--
114A	W4-4C(3)	II	60	36 x 15	3.750	3.750	--	--	--	--	--	--	114	--	--	--	--	--
115	R1-1(3)	II	--	36 x 36	7.460	--	--	1	1	1	--	--	--	--	--	--	--	--
116	W11-6F(2S)	II	--	30 x 30	--	--	6.250	1	1	1	--	--	--	FOLDING SIGN	--	--	--	--
117	R1-1(3)	II	--	36 x 36	7.460	--	--	1	1	1	--	--	--	--	--	--	--	--
117A	W4-4C(3)	II	--	36 x 15	--	3.750	--	--	--	--	--	--	117	--	--	--	--	--
118	D1-61	II	[A] HORNS CORNERS RD [A]	96 x 24	16.000	--	--	1	2	2	--	--	--	--	--	--	--	--
119	W2-1(2S)	II	--	30 x 30	--	6.250	--	1	1	1	--	--	--	--	--	--	--	--
120	W3-5(2S)	II	45 MPH	36 x 36	--	9.000	--	1	1	1	--	--	--	--	--	--	--	--
121	--	--	CHURCH SIGN	-- x --	--	--	--	1	1	--	--	--	--	REMOVE ILLEGAL SIGN	--	--	--	--
122	D2-3	II	JACKSON 8 SLINGER 14 HARTFORD 19	72 x 36	18.000	--	--	--	--	2	--	--	--	--	--	--	--	--
123	R2-1(2S)	II	55 MPH	24 x 30	5.000	--	--	1	1	1	--	--	--	--	--	--	--	--
124	R2-1(3)	II	45 MPH	36 x 48	12.000	--	--	1	1	1	--	--	--	--	--	--	--	--
125	R4-1	--	PASS WITH CARE	-- x --	--	--	--	1	1	--	--	--	--	REMOVE	--	--	--	--
126	W14-3(2S)	II	--	48 x 36	--	5.560	--	1	1	1	--	--	--	--	--	--	--	--
127	J4-1(2S)	II	--	24 x 36	6.000	--	--	--	--	--	--	--	126	--	--	--	--	--
	M3-4		--	24 x 12														
	M1-6		STH 60	24 x 24														
128	W3-3(2S)	II	--	36 x 36	--	9.000	--	1	1	1	--	--	--	--	--	--	--	--
129	JV1-1(2S)	II	--	24 x 63	10.500	--	--	1	1	1	--	--	--	--	--	--	--	--
	M2-1		--	21 x 15														
	M1-6		STH 181	24 x 24														
	M1-5A		CTH NN	24 x 24														
130	I55-56	--	--	-- x --	--	--	--	--	1	1	--	1	--	SHEET 2 OF 25	--	--	--	--
131	W6-3(2S)	II	--	36 x 36	--	9.000	--	--	--	--	1	--	--	SHEET 5 OF 25	--	--	--	--
132	R4-7(2S)	II	--	24 x 30	5.000	--	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE - SHEET 5 OF 25	--	--	--	--
133	W6-3(2S)	II	--	36 x 36	--	9.000	--	--	--	--	1	--	--	SHEET 6 OF 25	--	--	--	--
134	R1-1(2S)	II	--	30 x 30	5.180	--	--	--	1	1	--	1	--	SHEET 8 OF 25	--	--	--	--
135	R4-7(2S)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	SHEET 15 OF 25	--	--	--	--
136	R59-51(2S)	II	--	36 x 36	9.000	--	--	1	1	1	--	--	--	SHEET 18 OF 25	--	--	--	--
137	R1-1(3)	II	--	36 x 36	7.460	--	--	--	--	1	--	--	--	--	--	--	--	--
138	J4-1(2S)	II	--	24 x 36	6.000	--	--	--	--	1	--	--	--	SHEET 12 OF 25	--	--	--	--
	M3-4		--	24 x 12														
	M1-6		STH 60	24 x 24														
139	J4-1(2S)	II	--	24 x 36	6.000	--	--	--	--	1	--	--	--	SHEET 12 OF 25	--	--	--	--
	M3-2		--	24 x 12														
	M1-6		STH 60	24 x 24														
TOTALS					723.735	231.410	18.750	97	120	88	42	7			--	2.4	136	1200

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

3

FIXED MESSAGE SIGN

SIGN NUMBER	STAGE	SIGN SIZE W X H (FT) X (FT)	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF
200	STAGE 1	7 X 3	21
200	STAGE 1	7 X 3	21
200	STAGE 1	7 X 3	21
201	STAGE 1	7 X 3	21
201	STAGE 1	7 X 3	21
	TOTAL		105

TRAFFIC CONTROL

STAGE	DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH	DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH	DAYS	643.0900 TRAFFIC CONTROL SIGNS EACH	DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS EACH	DAYS	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	CYCLES
STAGE 1 - STH 60	180	32	5,760	149	26,880	288	51,840	6	1,080	272	48,900	2	20	17	1
UNDISTRIBUTED	--	--	1,440	--	6,720	--	12,960	--	270	--	12,225	--	40	3	--
TOTAL			7,200		33,600		64,800		1,350		61,125		60	20	--

3

PAVEMENT MARKING ITEMS

STATION FROM	STATION TO	646.1020 MARKING LINE EPOXY 4-INCH LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH LF	646.3020 MARKING LINE EPOXY 8-INCH LF	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	648.0100 LOCATING NO-PASSING ZONES MI
188+60	249+07	3,260	11,985	--	--	--	36	--
266+78	416+04	21,951	28,910	2,050	5	5	235	--
416+04	456+50	4,575	7,965	200	1	1	30	--
473+93	555+40	4,418	15,953	800	1	1	88	--
UNDISTRIBUTED		1,584	--	--	--	--	--	6.43
TOTAL		35,788	64,813	3,050	7	7	389	6.43

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

3

CONSTRUCTION STAKING ITEMS

STATION FROM	STATION TO	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 01. B-66-0092 LS	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
188+60	249+07	--	198	198	121	--	1	6,100	1,012
266+78	416+04	4	6,260	6,260	1,943	13	--	15,779	6,742
416+04	456+50	--	803	803	151	1	--	4,166	746
473+93	555+40	5	2,019	2,019	495	1	--	8,582	1,893
UNDISTRIBUTED		--	--	--	--	--	--	--	--
	TOTAL	9	9,280	9,280	2,710	15	1	34,627	10,393

3

SAW CUTTING

STATION FROM	STATION TO	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
188+60	249+07	615	--
266+78	416+04	10,153	14
416+04	456+50	1,486	--
473+93	555+40	3,382	--
TOTAL		15,636	14

SECTION CORNER MONUMENTS

STATION	SPV.0060.01 SECTION CORNER MONUMENTS EACH
204+99	1
231+34	1
284+19	1
310+51	1
337+00	1
363+45	1
389+75	1
416+04	1
438+75	1
491+50	1
517+83	1
544+05	1
TOTAL	12

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

Standard Detail Drawing List

08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D02-06	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09A01-13B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B15-11A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B16-04A	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
14B16-04B	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B20-11A	STEEL THRIE BEAM STRUCTURE APPROACH
14B20-11B	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END PARAPETS
14B20-11G	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTOR PLATE DETAIL
14B24-09A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B25-01	STEEL PLATE BEAM GUARD, CLASS "A", OVER LOW FILL CULVERTS
14B27-01A	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B27-01B	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B27-01C	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B28-03	GUARDRAIL MOW STRIP
14B29-01	SAFETY EDGE
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B43-04A	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-04B	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-04C	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B47-02A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

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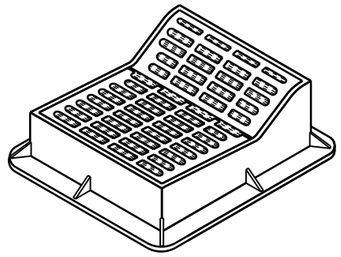
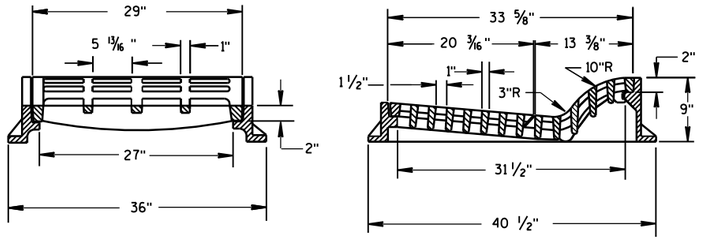
Standard Detail Drawing List

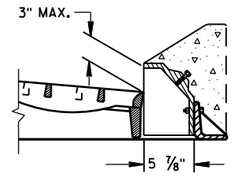
14B47-02C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-07B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-07C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C29-06A	BICYCLE LANE MARKING
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-03A	PAVEMENT MARKING (INTERSECTIONS)
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

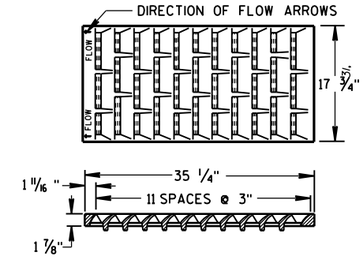
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

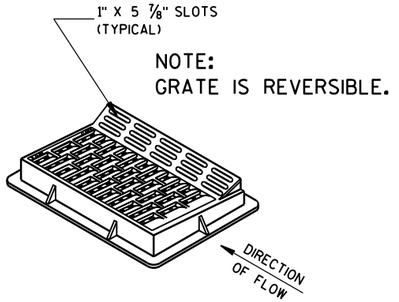
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

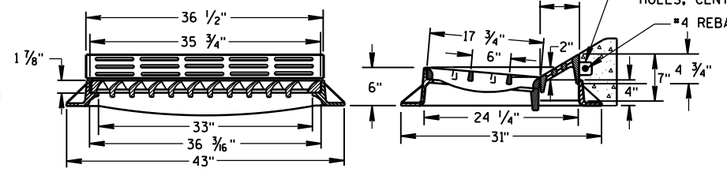
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



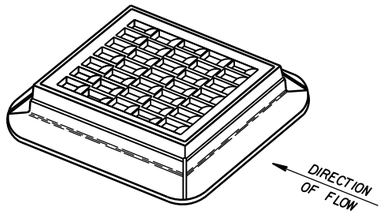


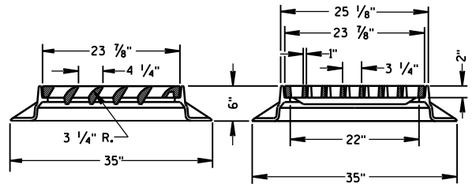


TYPE "HM"

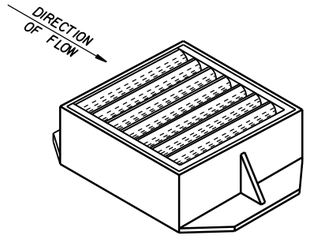
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

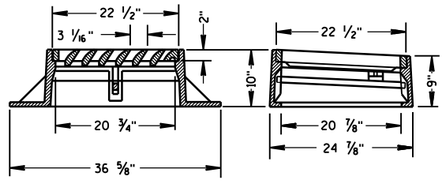
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE





TYPE "S"





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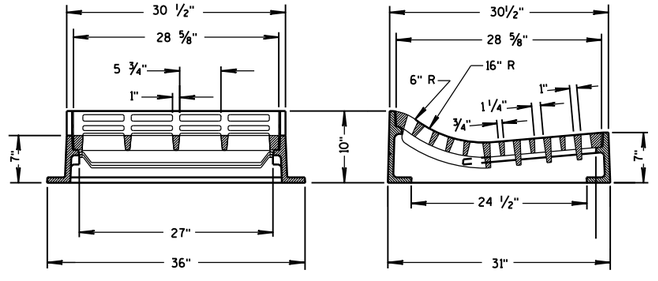
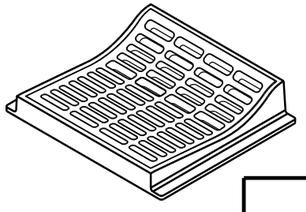




TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

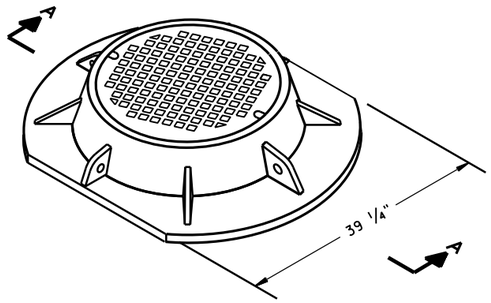
APPROVED
11/27/2013
DATE

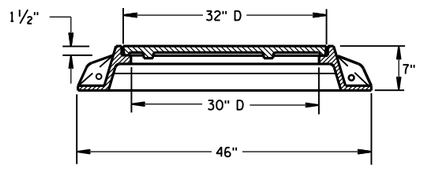
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

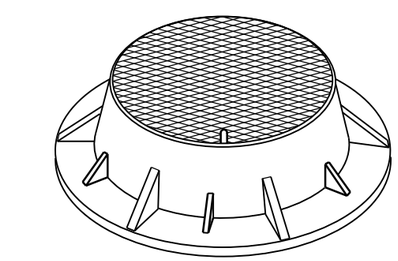
6

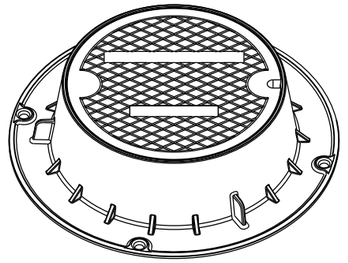
S.D.D. 8 A 5-19c

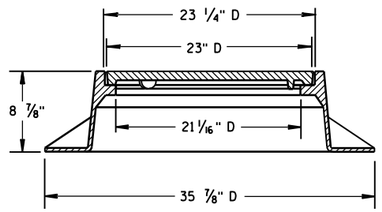


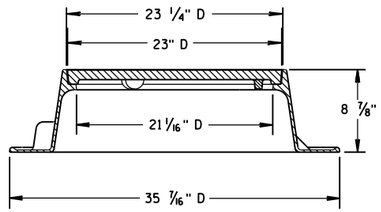


SECTION A-A
TYPE "K"









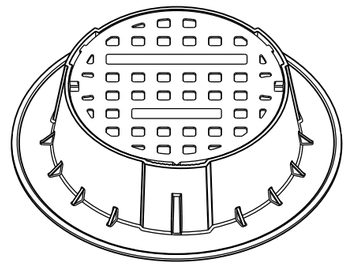
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

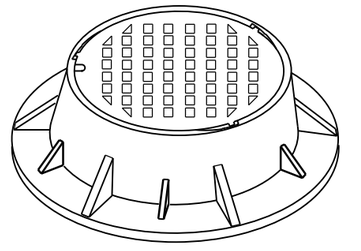
GENERAL NOTES

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

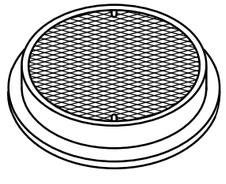
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

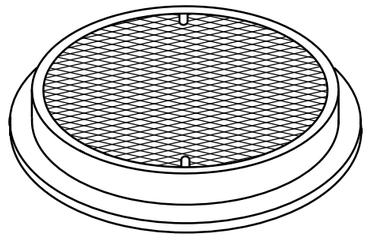
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

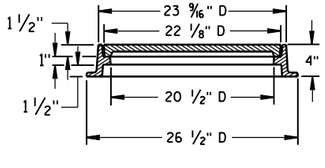




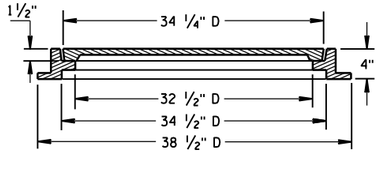
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



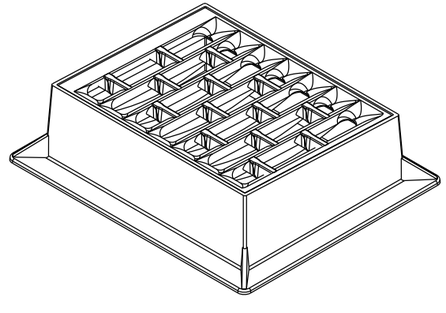


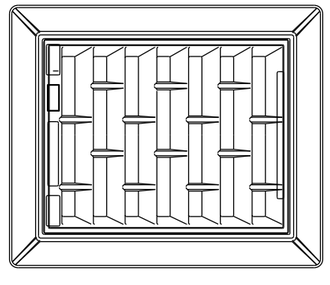


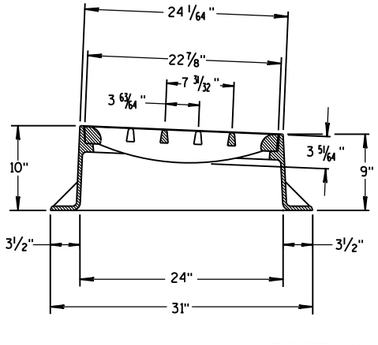
TYPE "L"

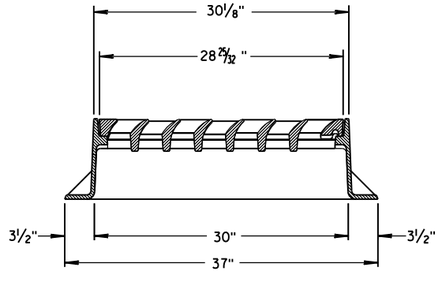


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

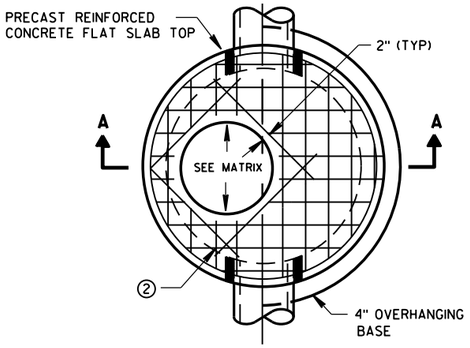
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

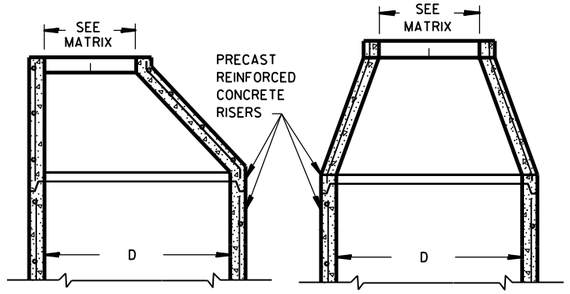
S.D.D. 8 A 5-19d

6

S.D.D. 8 A 5-19d

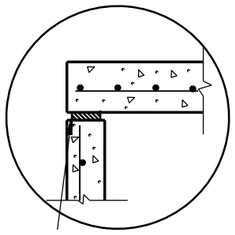


PLAN VIEW CIRCULAR OPENING

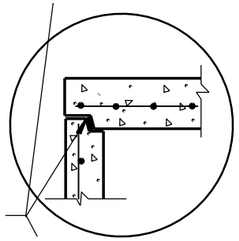


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

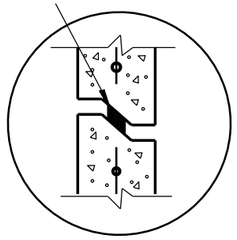


TOP WITH PLAIN END JOINT



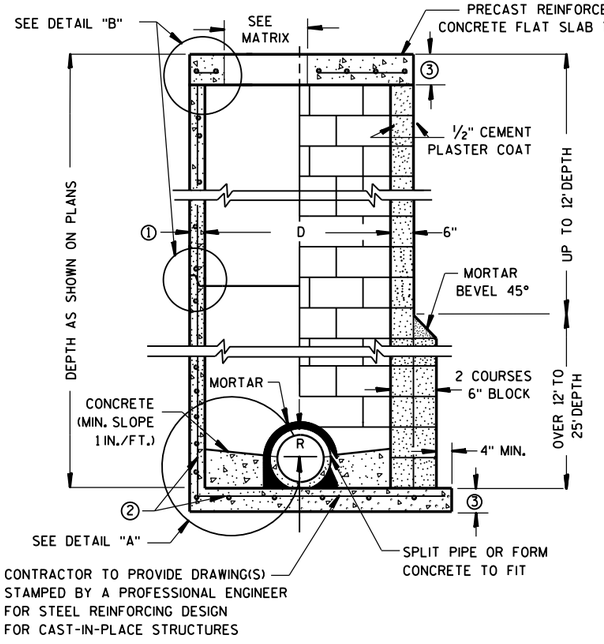
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



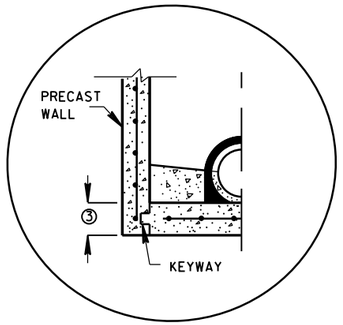
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

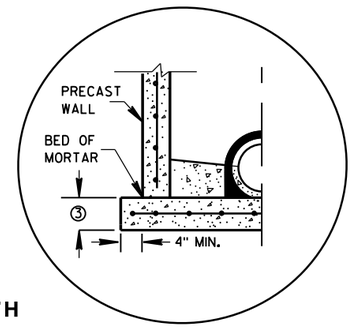


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

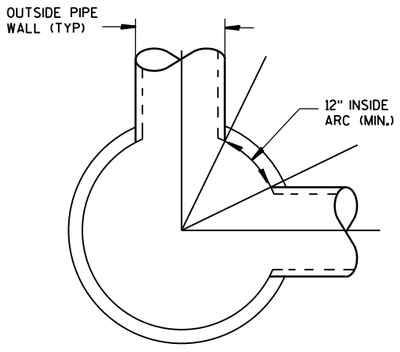


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

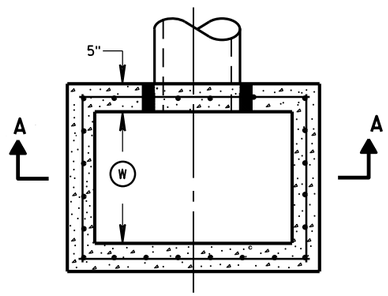
APPROVED

Sept., 2016
DATE

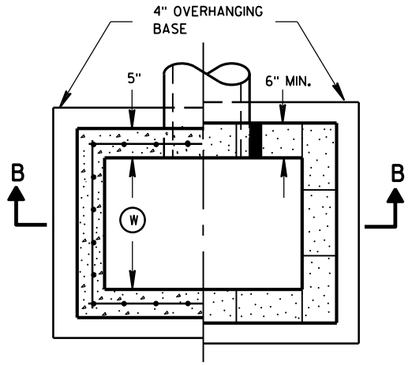
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

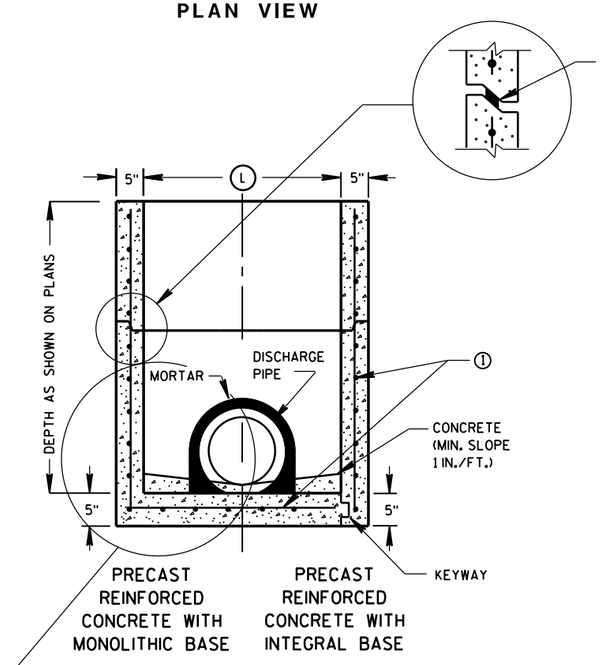
6
S.D.D. 8 B 9-2



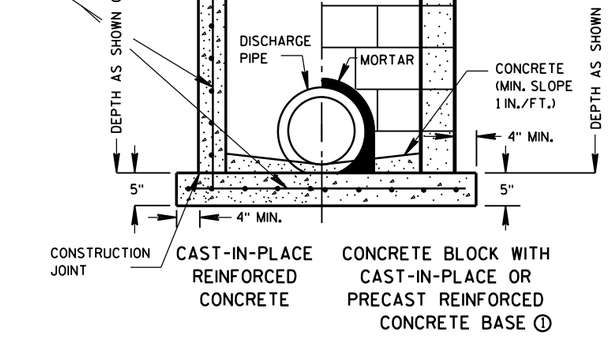
PLAN VIEW



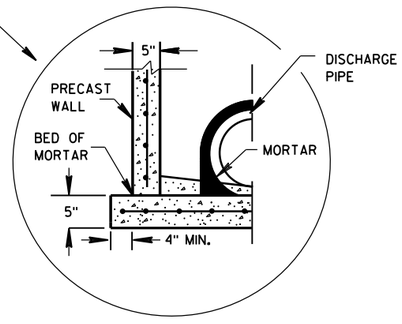
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

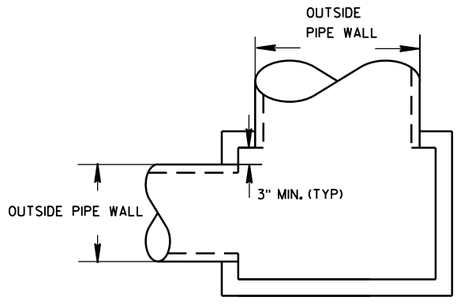
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT
UNIT SUPERVIS
FHWA

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

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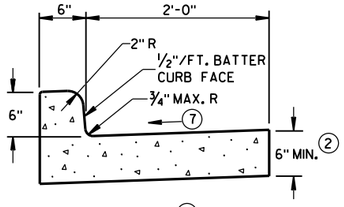
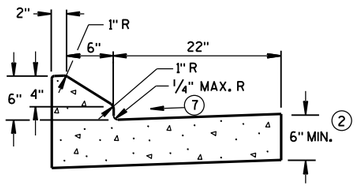
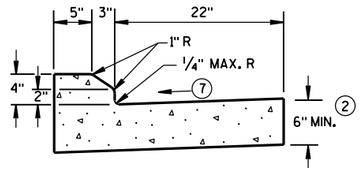


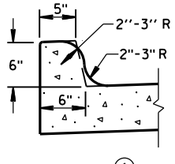
TYPES A (1) & D



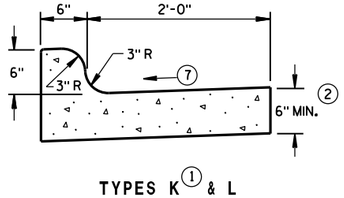
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

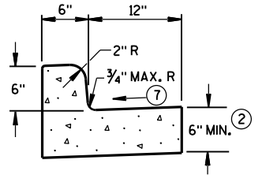


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



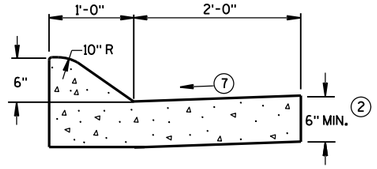
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

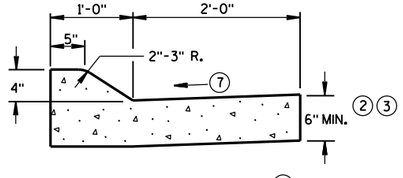


TYPES A (1) & D

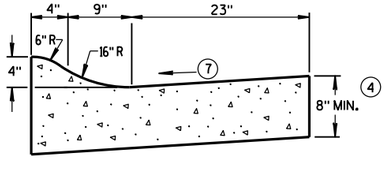
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

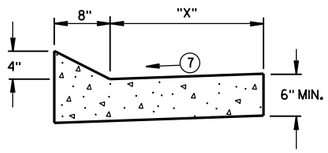


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

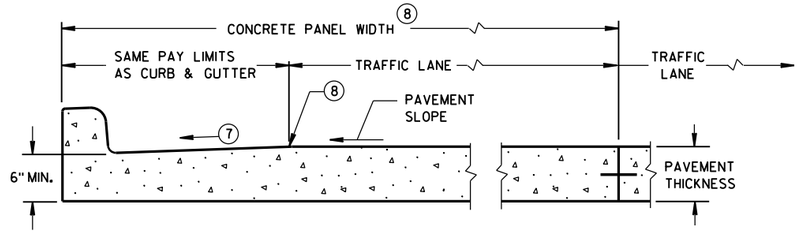
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

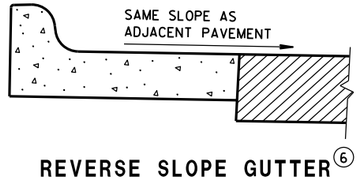
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB & GUTTER

* BIKE LANE IS NOT SHOWN.



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

CONCRETE CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

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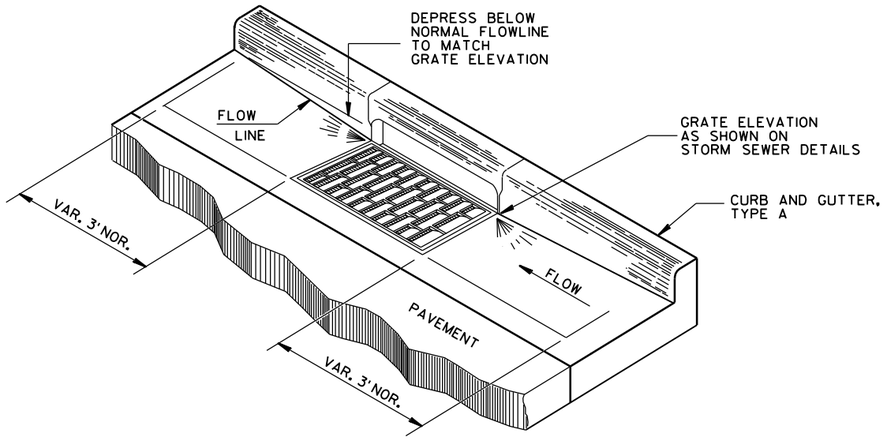


DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

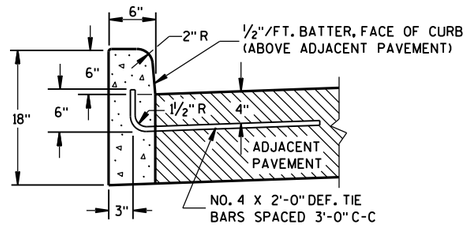
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

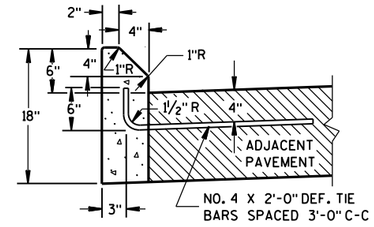
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

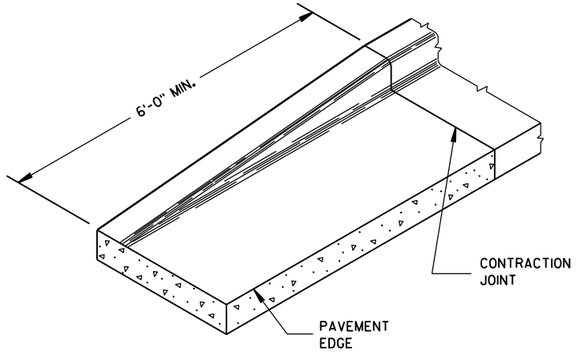


TYPES A(1) & D

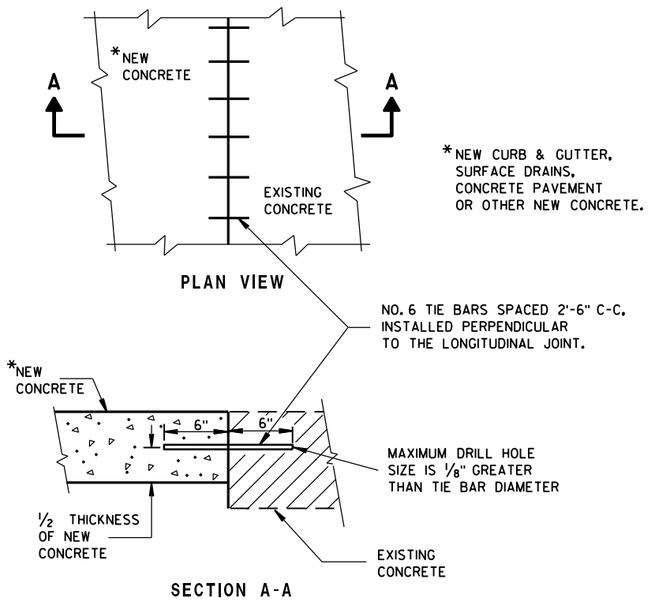


TYPES G(1) & J

CONCRETE CURB



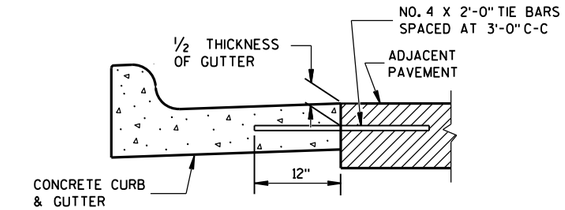
END SECTION CURB & GUTTER



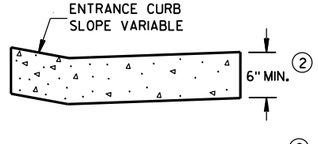
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
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FHWA
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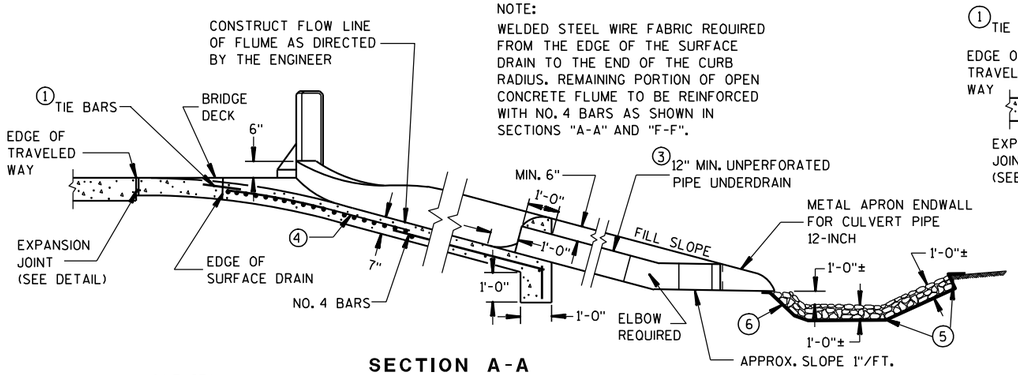
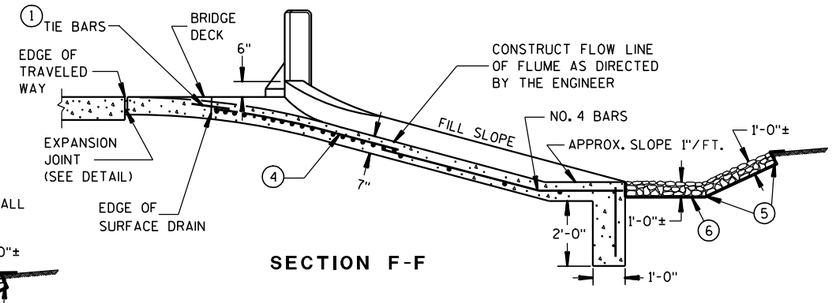


SECTION A-A



SECTION F-F

GENERAL NOTES

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

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

(1) NO. 4 X 2'-0" TIE BARS SPACED AT 3'-0" CENTERS TO BE USED ONLY WHEN ADJACENT TO P.C. CONCRETE.

(2) NO. 4 X 2'-0" TIE BARS SPACED AT 12" CENTERS TO BE PLACED BY BRIDGE CONTRACTOR, OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PIPE UNDERDRAIN MAY BE ANY OF THE MATERIALS LISTED IN SECTION 612.2 OF THE STANDARD SPECIFICATIONS EXCEPT DRAIN TILE.

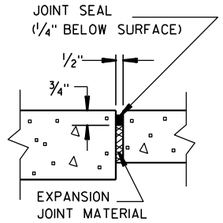
(4) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C-C.

(5) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

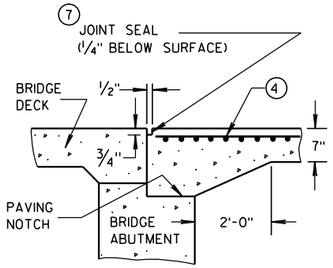
(6) GEOTEXTILE FABRIC, TYPE 'R"

(7) HOT POURED SEALANT UNLESS OTHERWISE SPECIFIED.

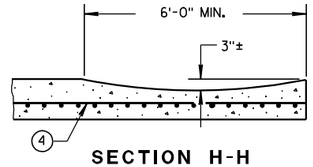
(8) THIS DIMENSION MAY VARY DEPENDING ON THE SPACING OF POSTS FOR THE STEEL PLATE BEAM GUARD. THE TYPICAL LOCATION FOR THE SURFACE DRAIN IS WHERE THE POST SPACING WIDENS TO 3'-1½".



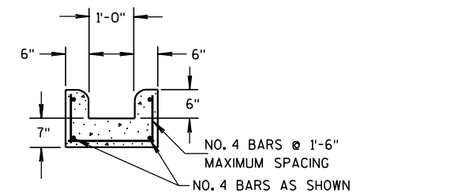
EXPANSION JOINT DETAIL



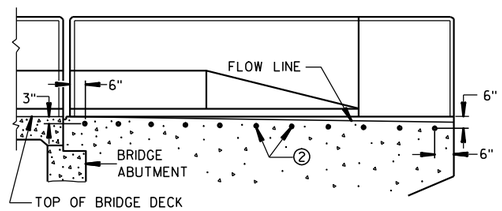
SECTION D-D



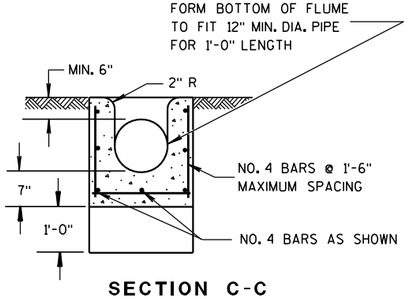
SECTION H-H



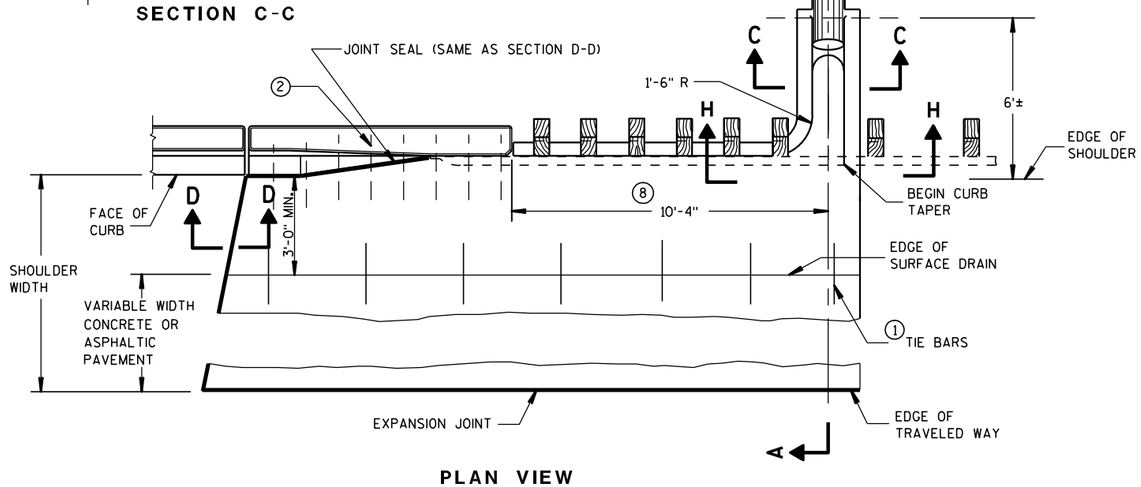
SECTION E-E



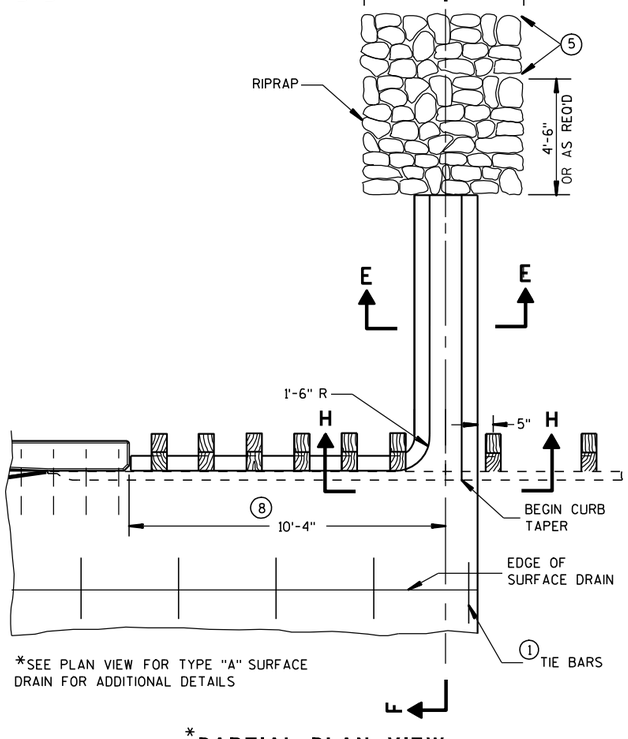
LOCATION OF TIE BARS IN WINGWALL



SECTION C-C



PLAN VIEW
SURFACE DRAIN WITH PIPE
TYPE "A"



*SEE PLAN VIEW FOR TYPE "A" SURFACE DRAIN FOR ADDITIONAL DETAILS

*PARTIAL PLAN VIEW
SURFACE DRAIN WITHOUT PIPE
TYPE "B"

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/4/08 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

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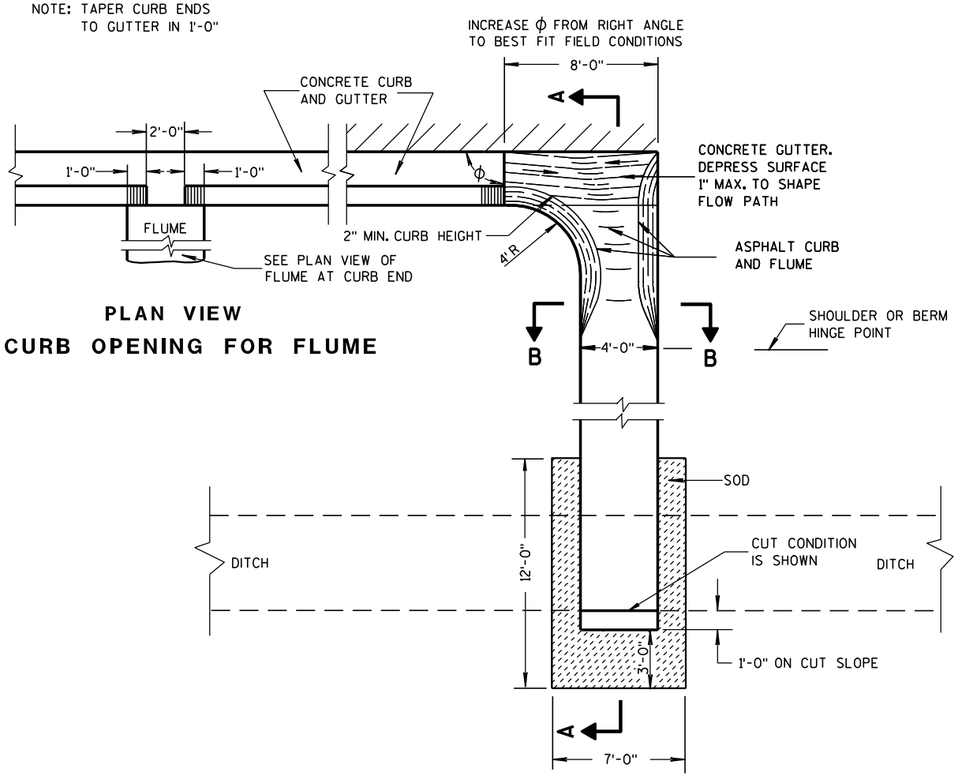
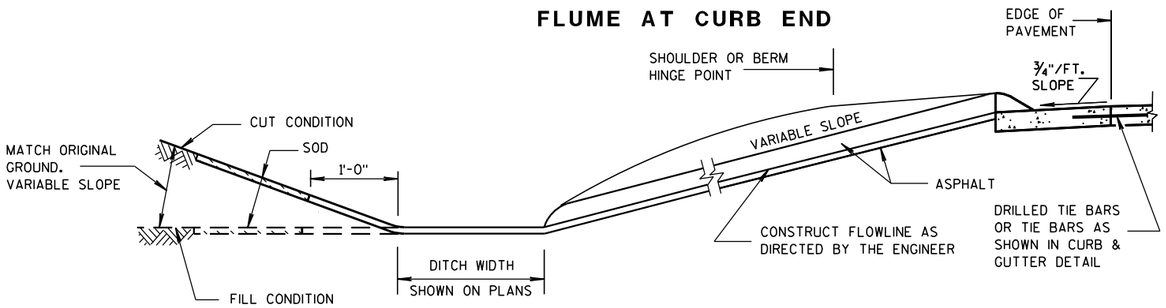
S.D.D. 8 D 2-6

ASPHALTIC FLUME

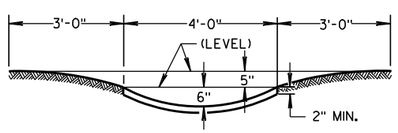


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

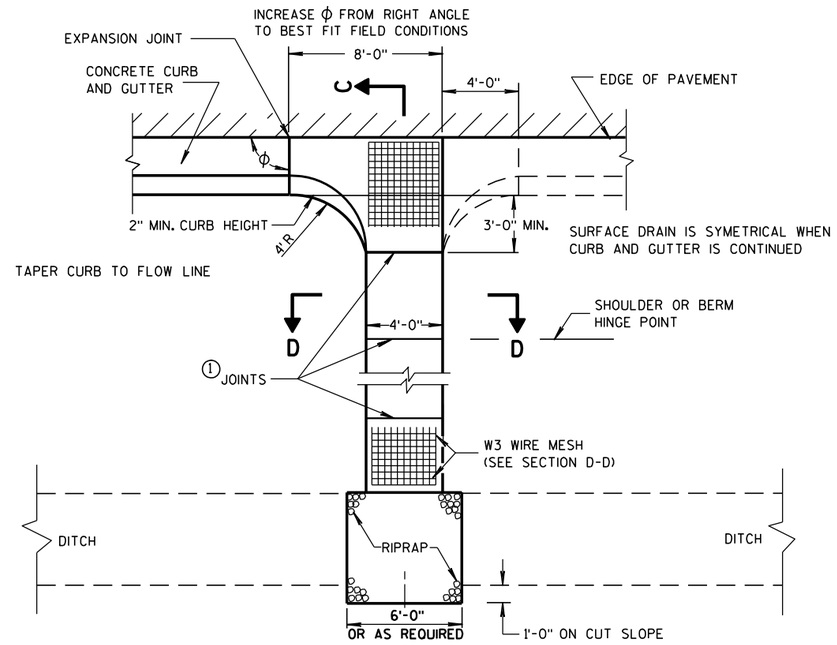
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE ⅛ TO ¼ INCH WIDE BY 1½ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

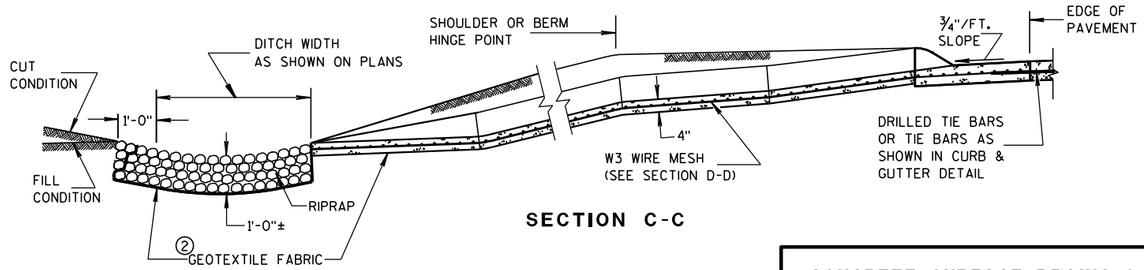
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

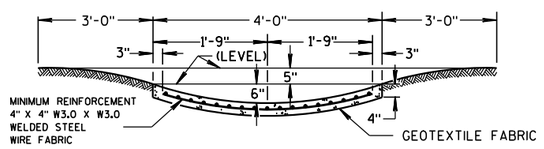
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
194
MENT
FHWA

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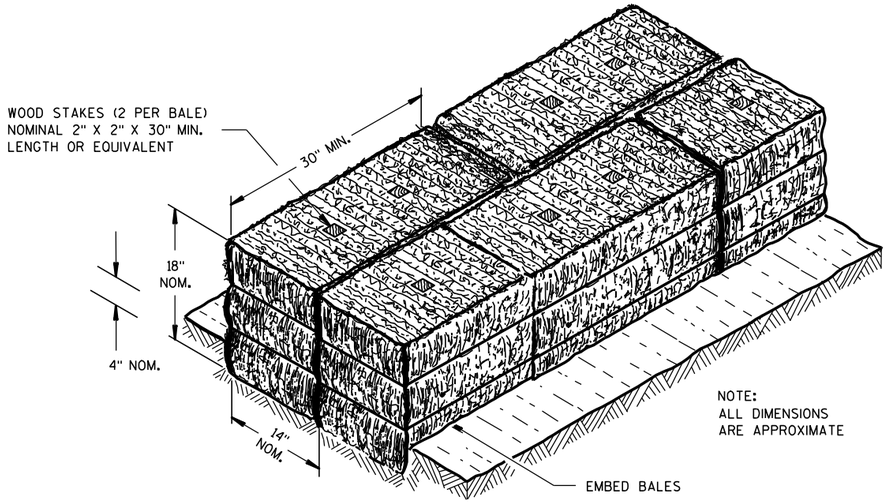
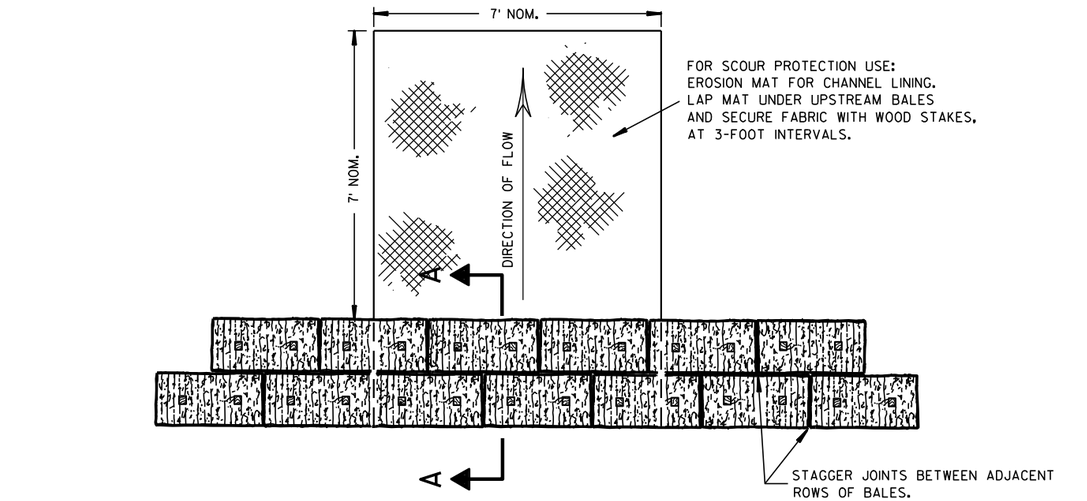
S.D.D. 8 D 4-5

6

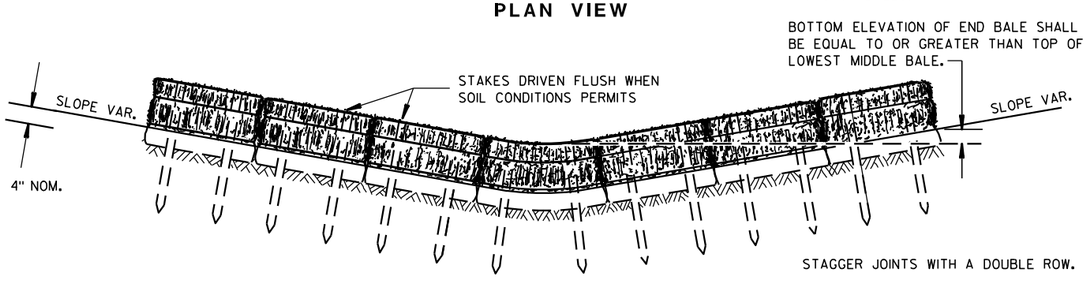
S.D.D. 8 D 4-5



SECTION A-A



PLAN VIEW



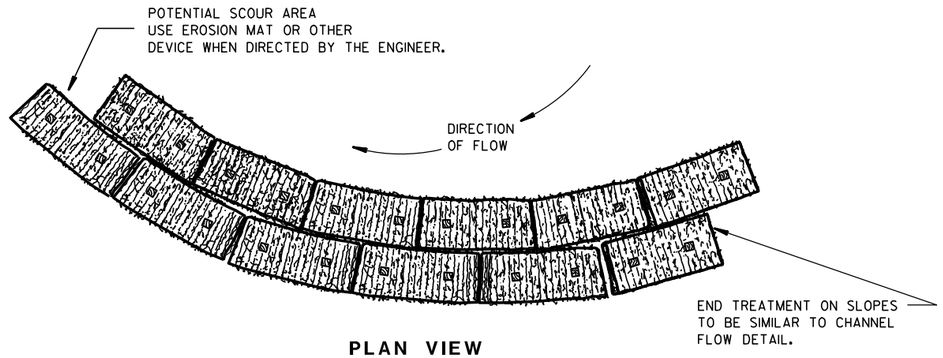
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

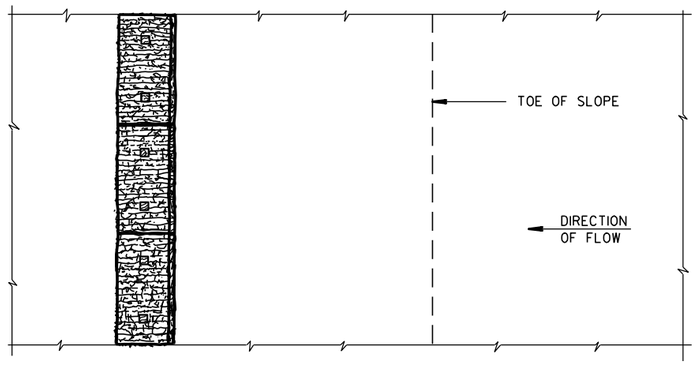
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

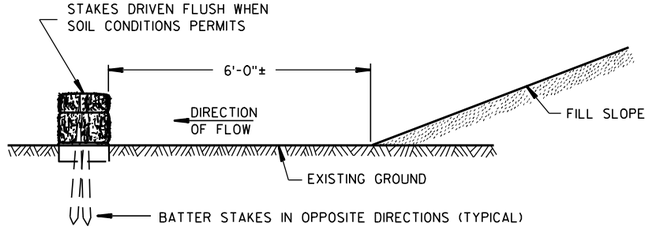


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 E 8-3

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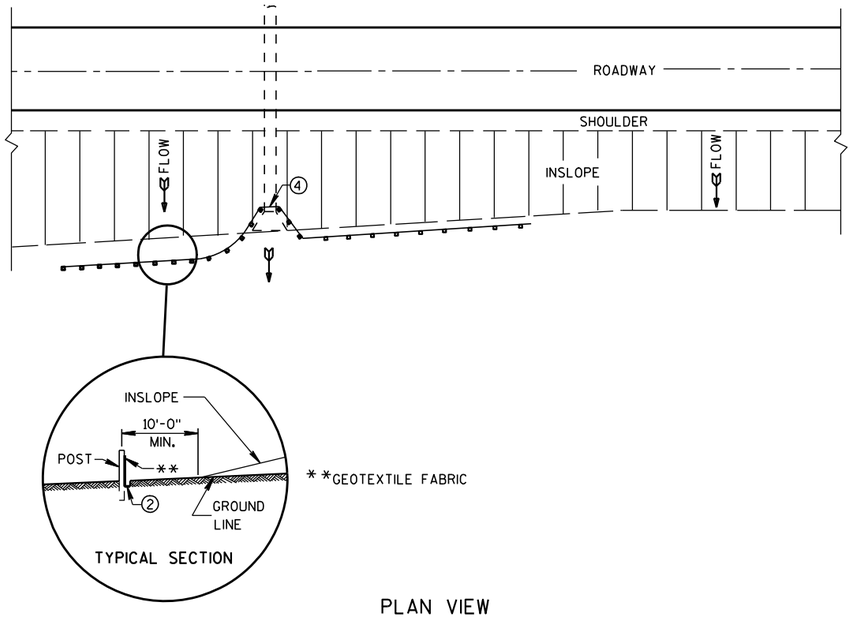
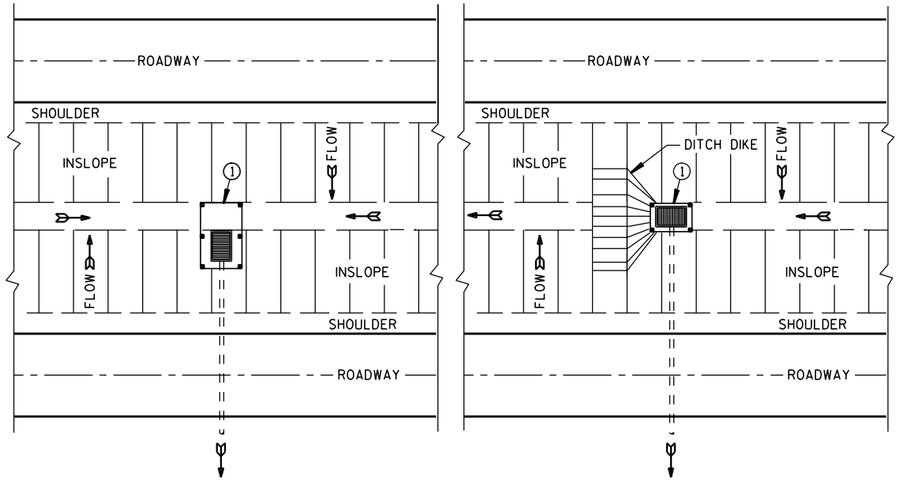
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



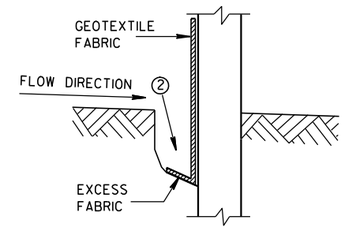
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

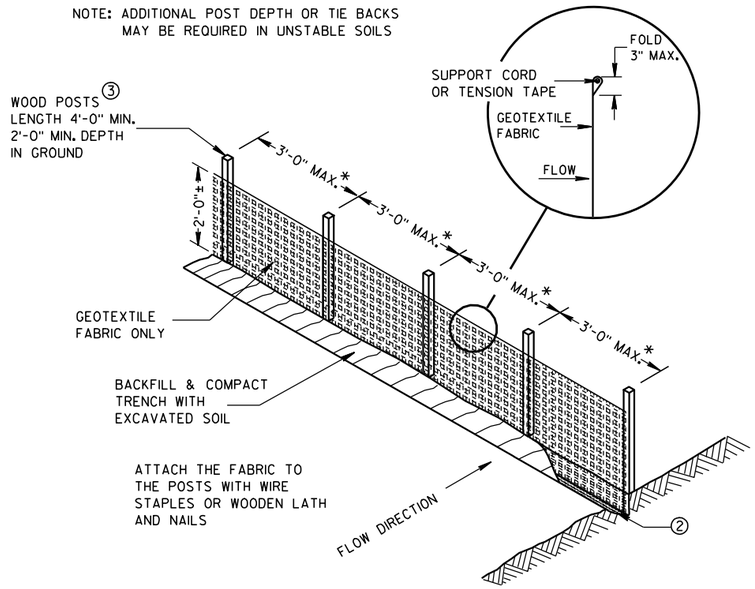
GENERAL NOTES

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

1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

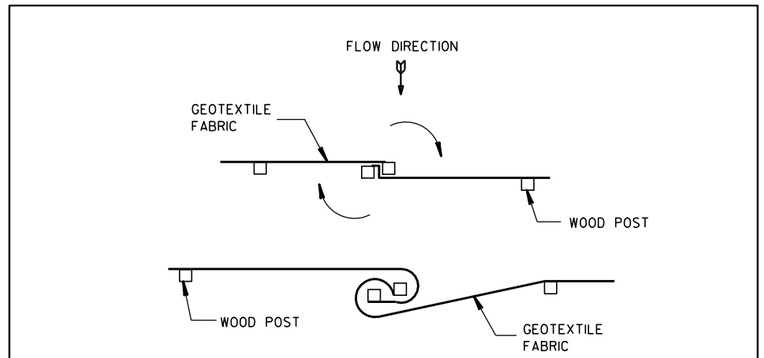


TRENCH DETAIL

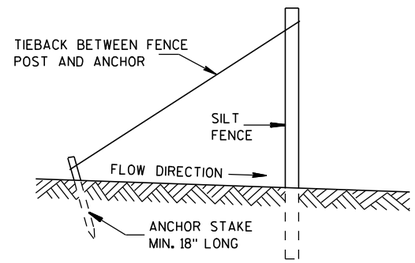


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 E 9-6

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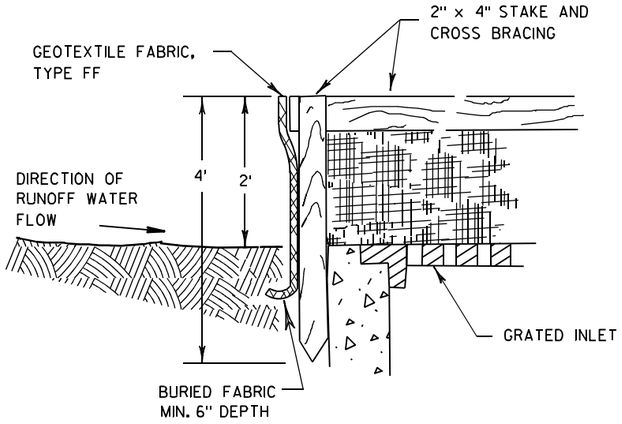
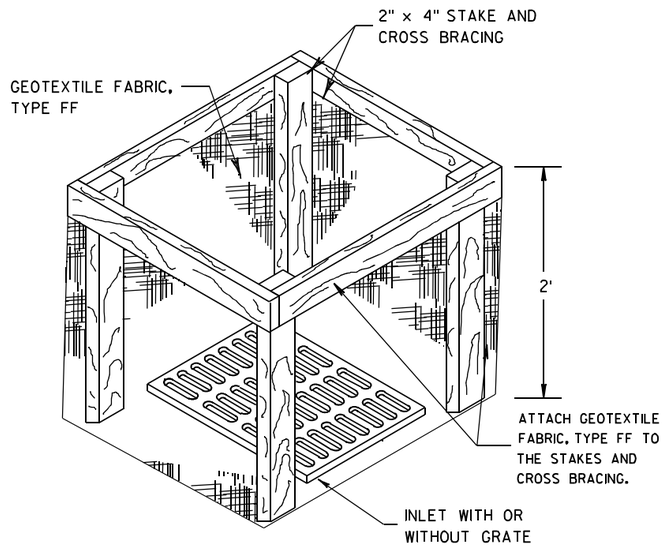
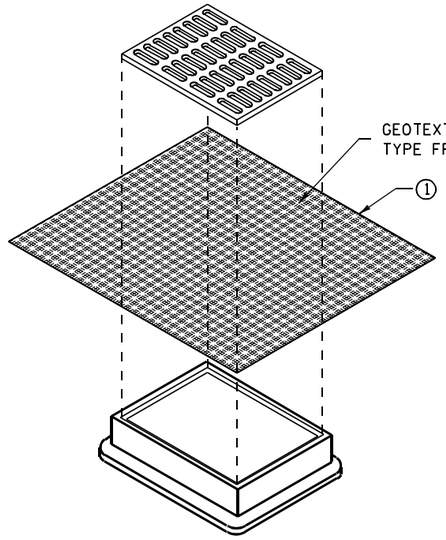
S.D.D. 8 E 9-6



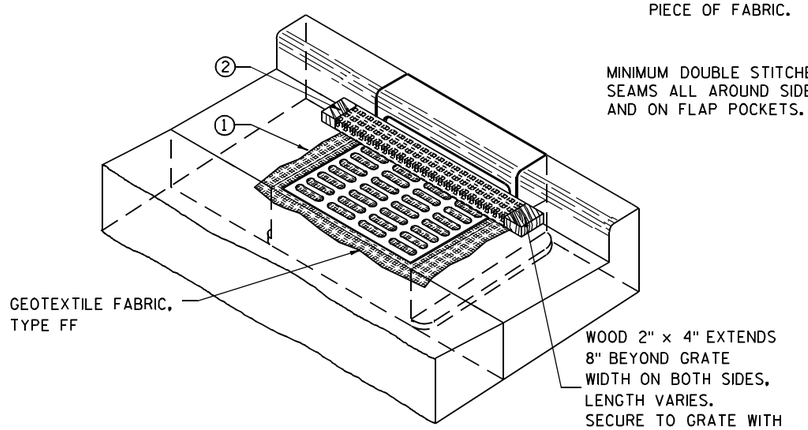


INLET PROTECTION, TYPE A

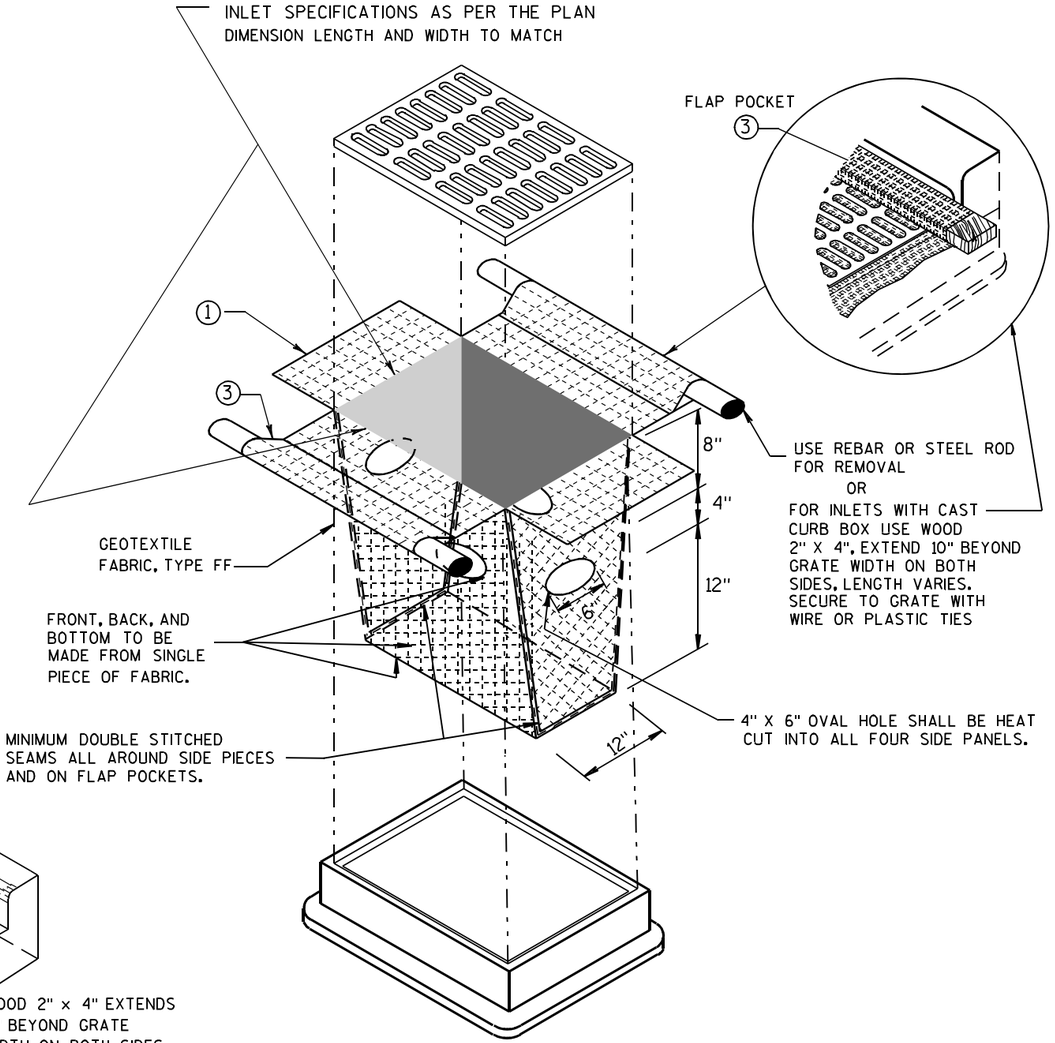


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

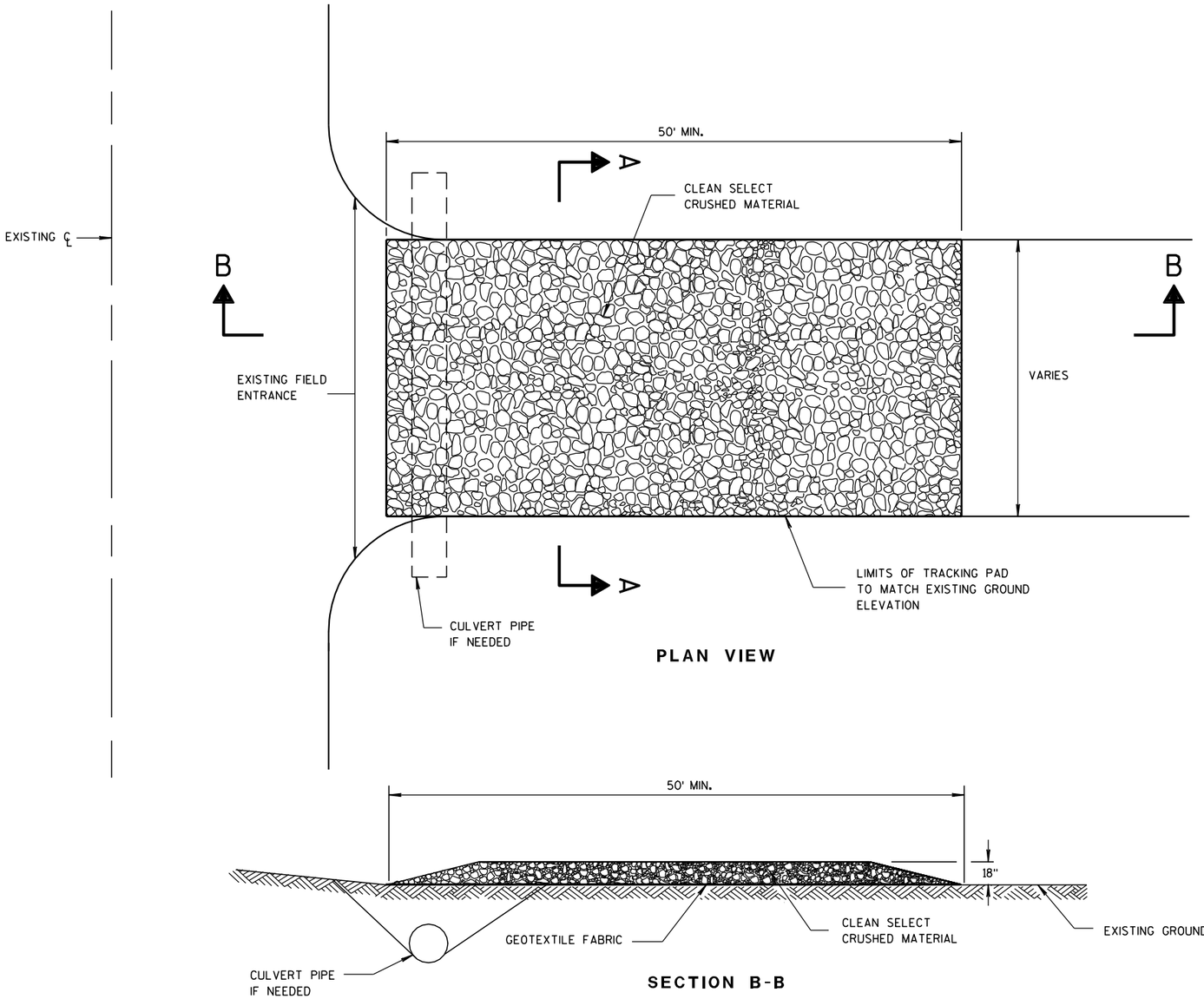
APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 8 E 10-2



PLAN VIEW

SECTION B-B

GENERAL NOTES

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

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

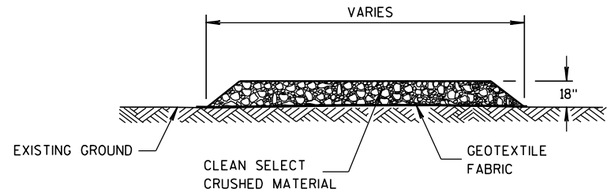
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

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S.D.D. 8 E 14-1

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS ENGINEER
FHWA

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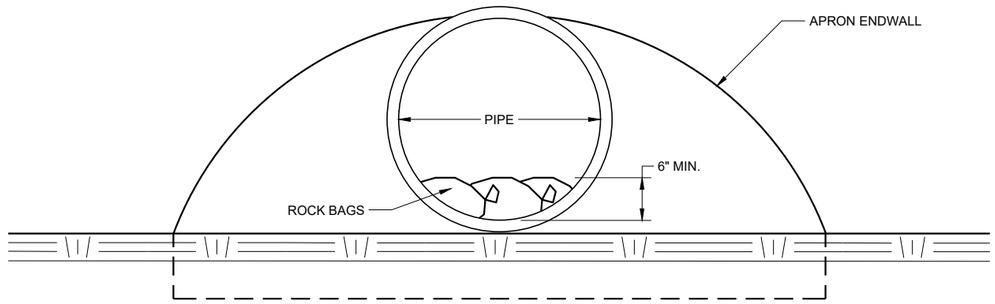
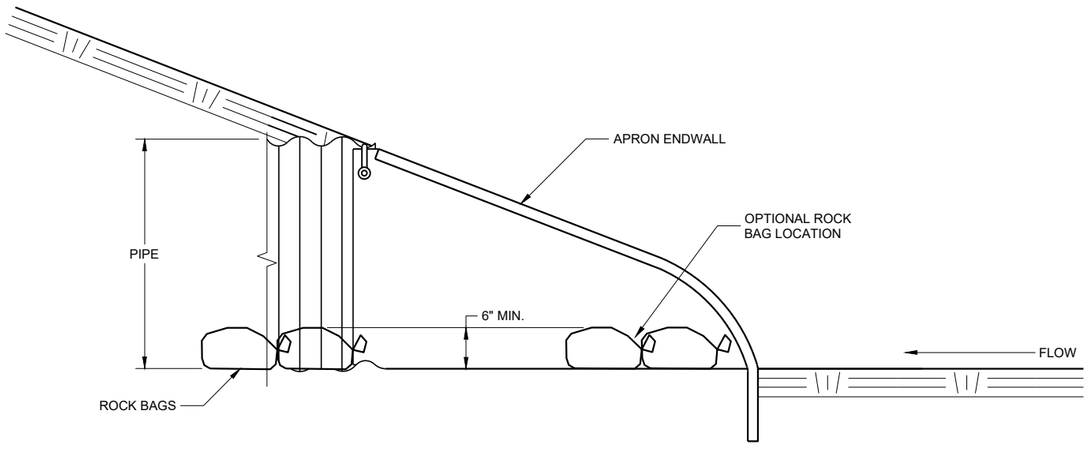
S.D.D. 8 E 14-1



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019 — DATE
/S/ Daniel Schave — EROSION CONTROL ENGI
FHWA

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SDD 08E15 - 01

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SDD 08E15 - 01

METAL APRON ENDWALLS

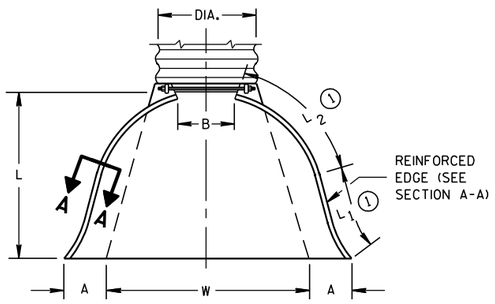
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

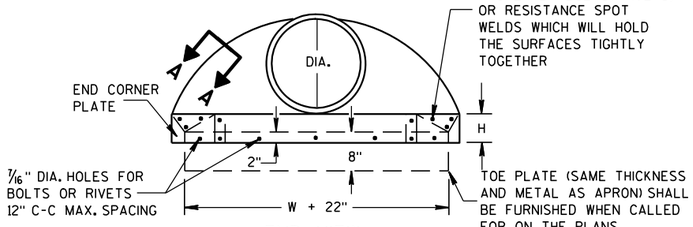
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

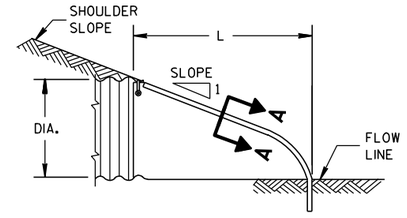
* MINIMUM
** MAXIMUM



PLAN VIEW

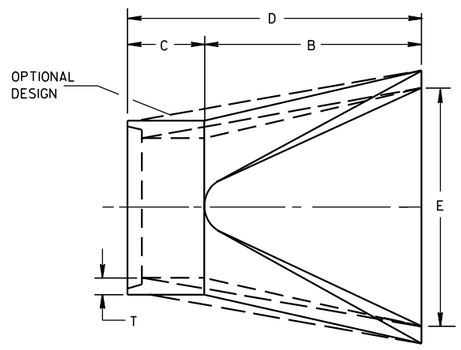


END VIEW

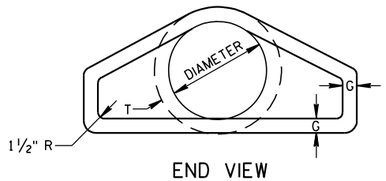


SIDE ELEVATION

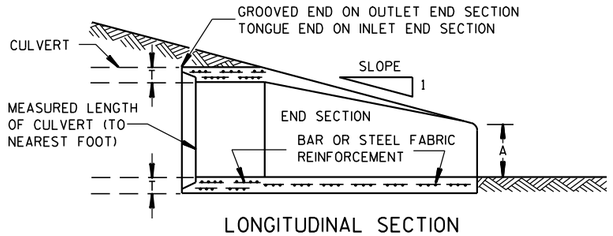
METAL ENDWALLS



PLAN

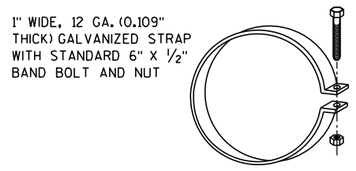


END VIEW



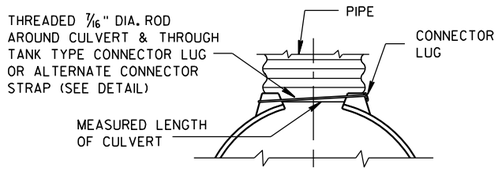
LONGITUDINAL SECTION

CONCRETE ENDWALLS

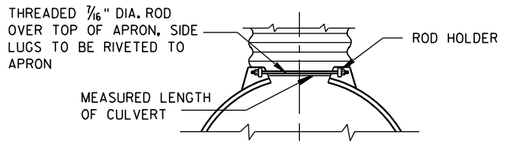


ALTERNATE FOR TYPE 1 CONNECTION

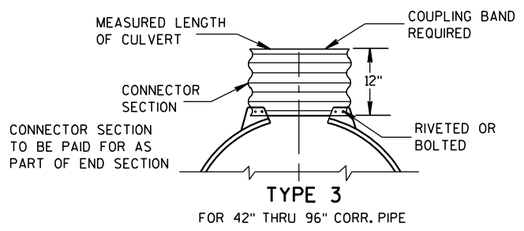
END SECTION CONNECTOR STRAP



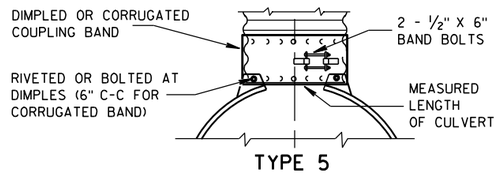
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

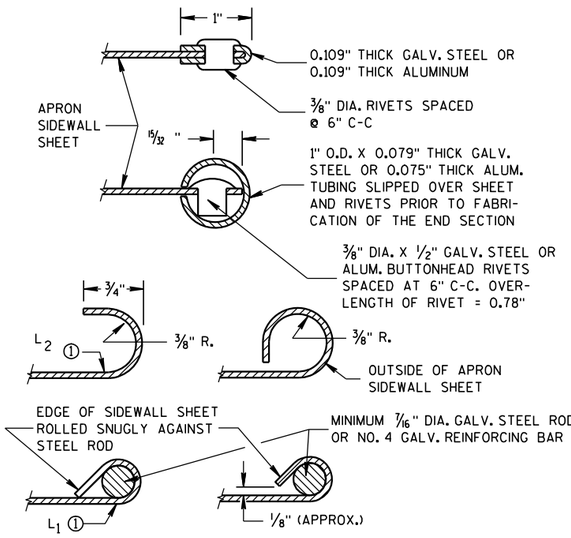
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

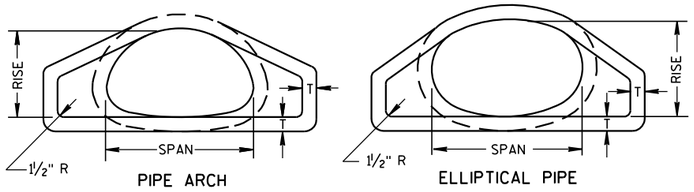
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

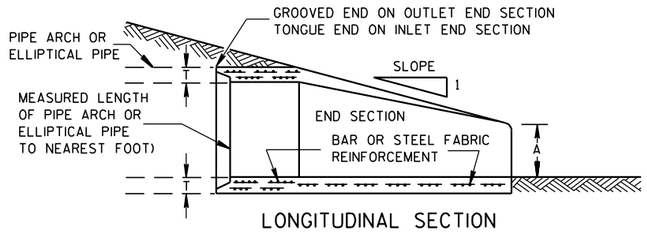
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

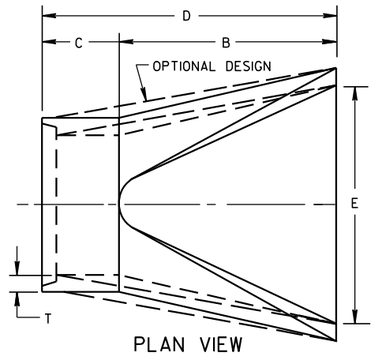
S.D.D. 8 F 1-11



END VIEW

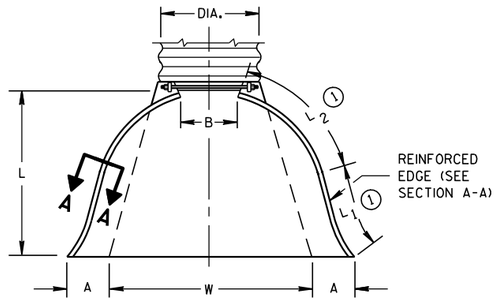


LONGITUDINAL SECTION

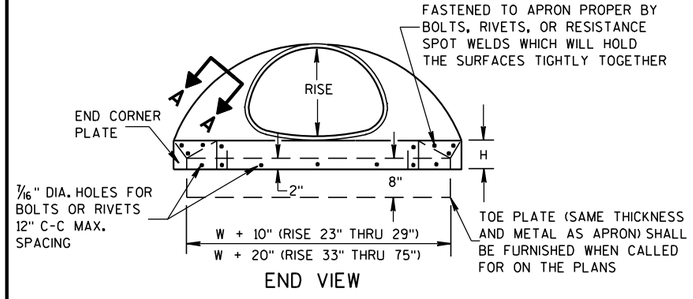


PLAN VIEW

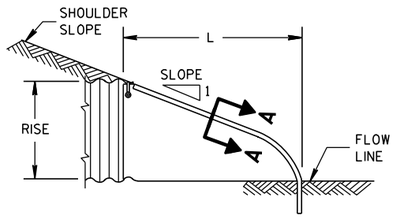
CONCRETE ENDWALLS



PLAN VIEW

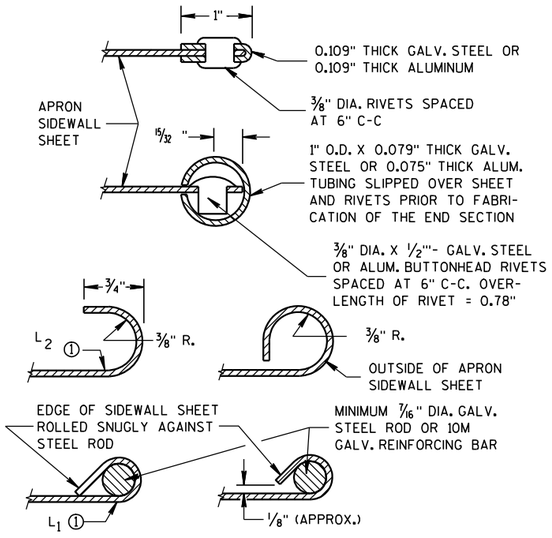


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

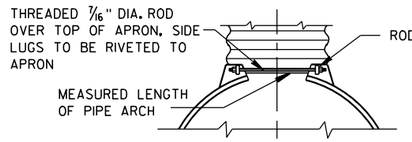
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

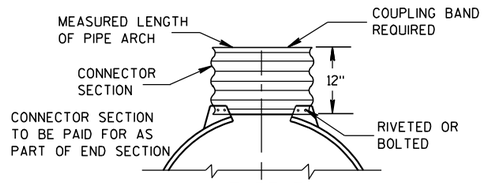
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



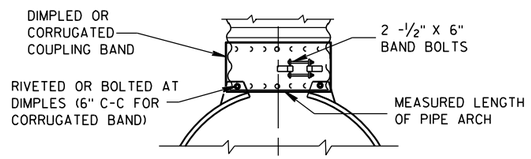
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

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

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 8 F 2-1

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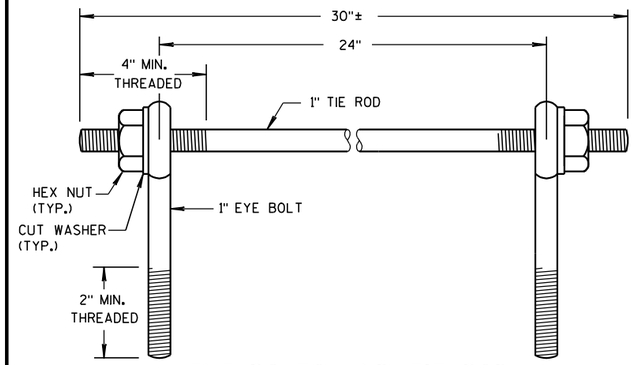
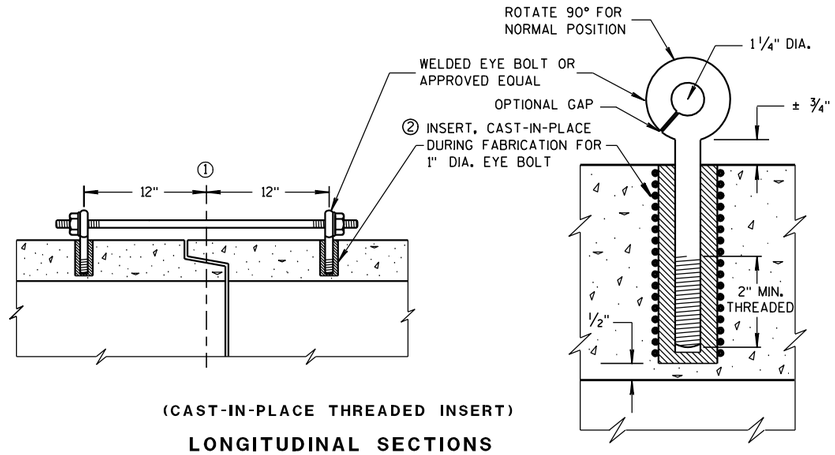
S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

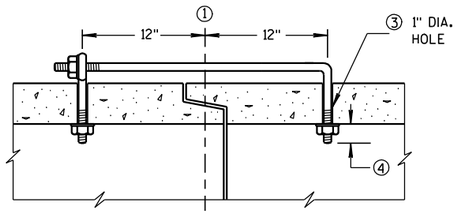
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

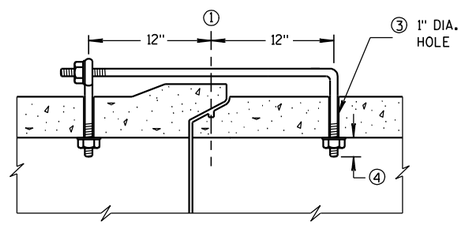
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

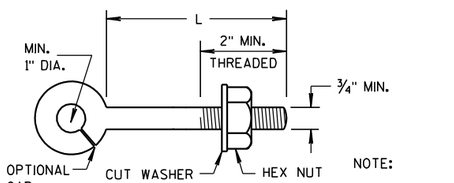


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

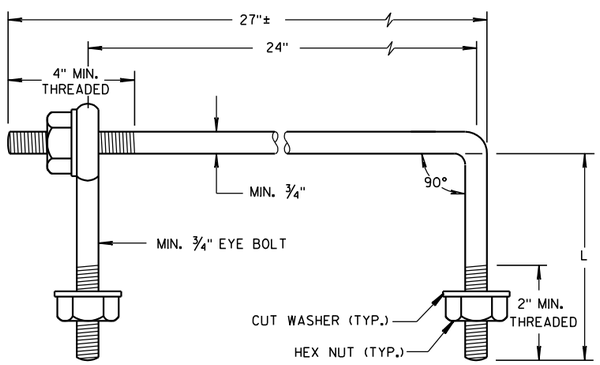
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

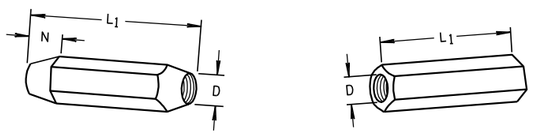
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

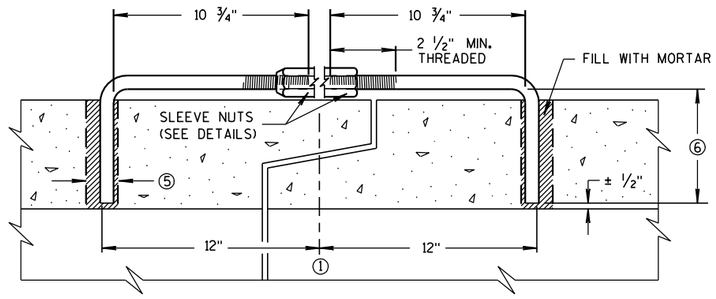
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

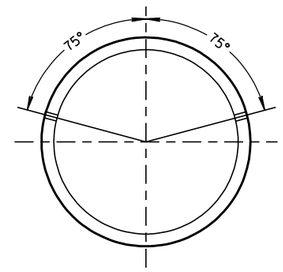
SLEEVE NUTS



LONGITUDINAL SECTION

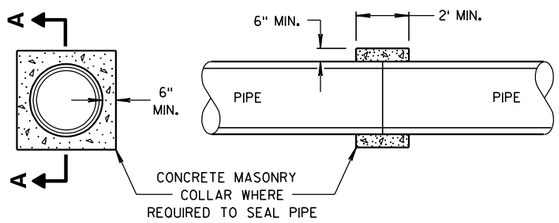
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

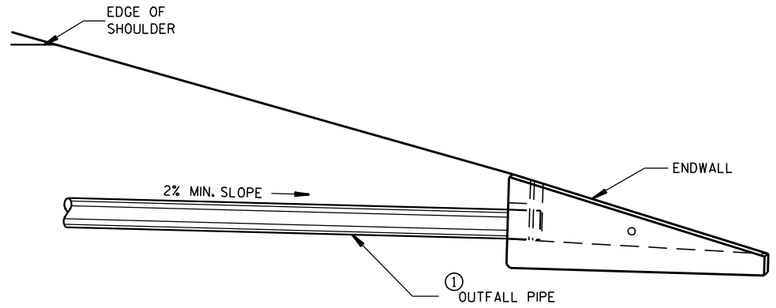
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
202
FHWA

6

S.D.D. 8 F 4-7

DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION DETAIL

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.

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

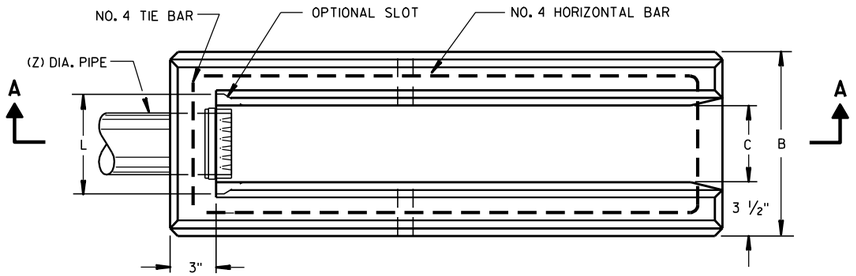
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

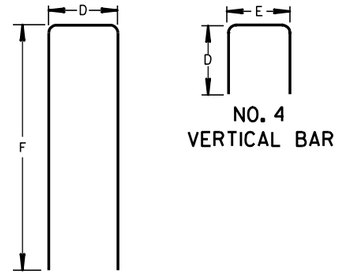
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

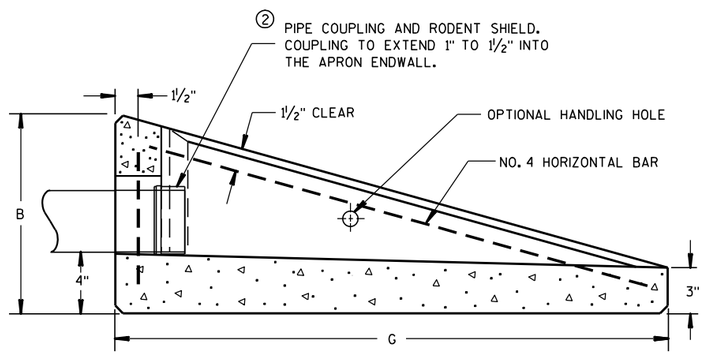
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



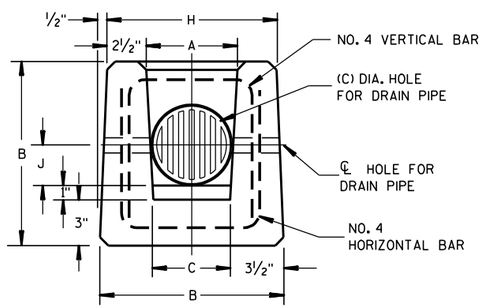
PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS

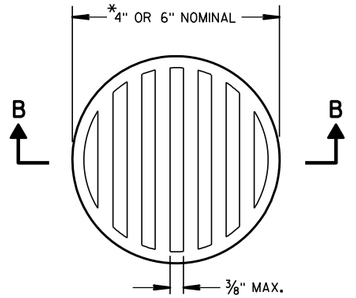


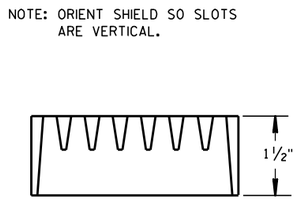
SECTION A-A



END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN





SECTION B-B

② RODENT SHIELD

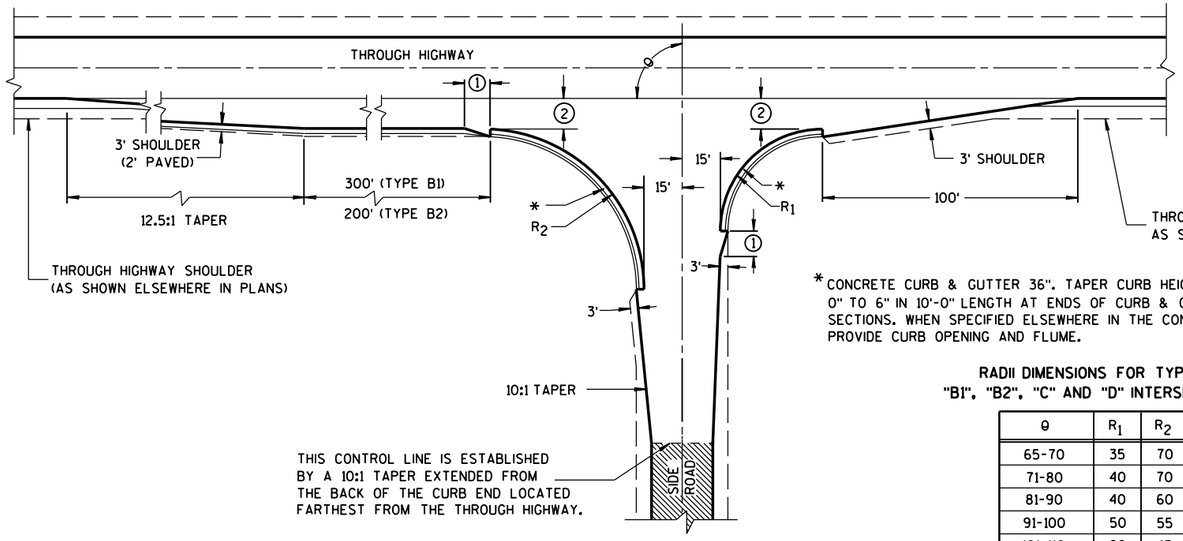
*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/10/98 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 6-4

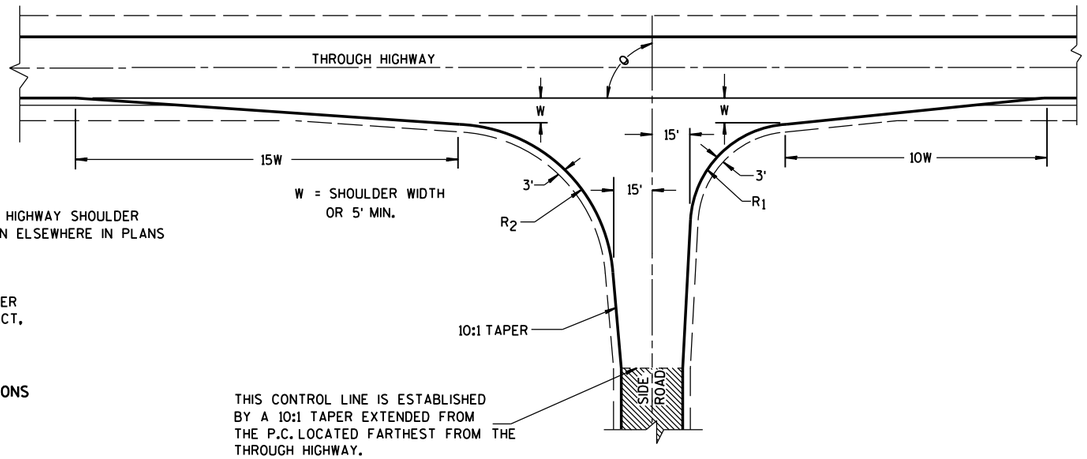


TYPE "B1" AND "B2"

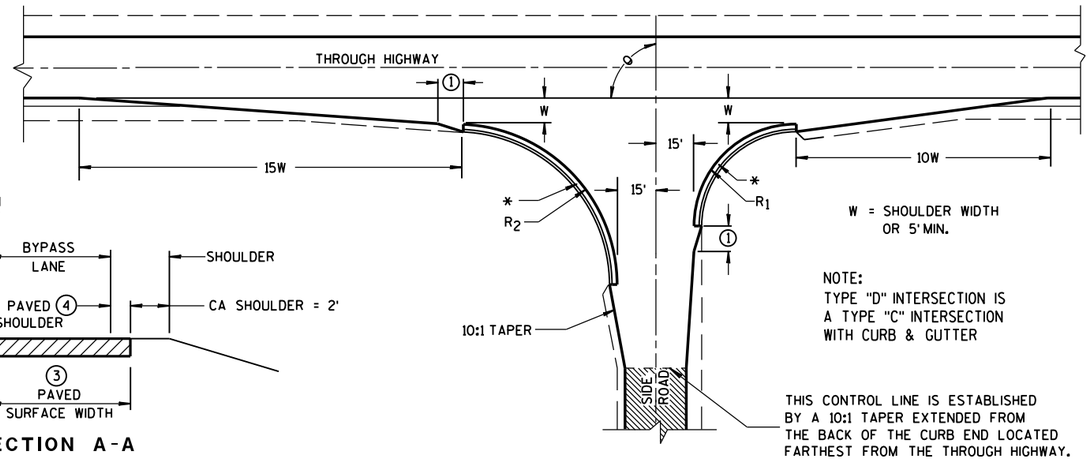
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

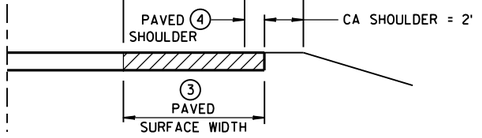
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

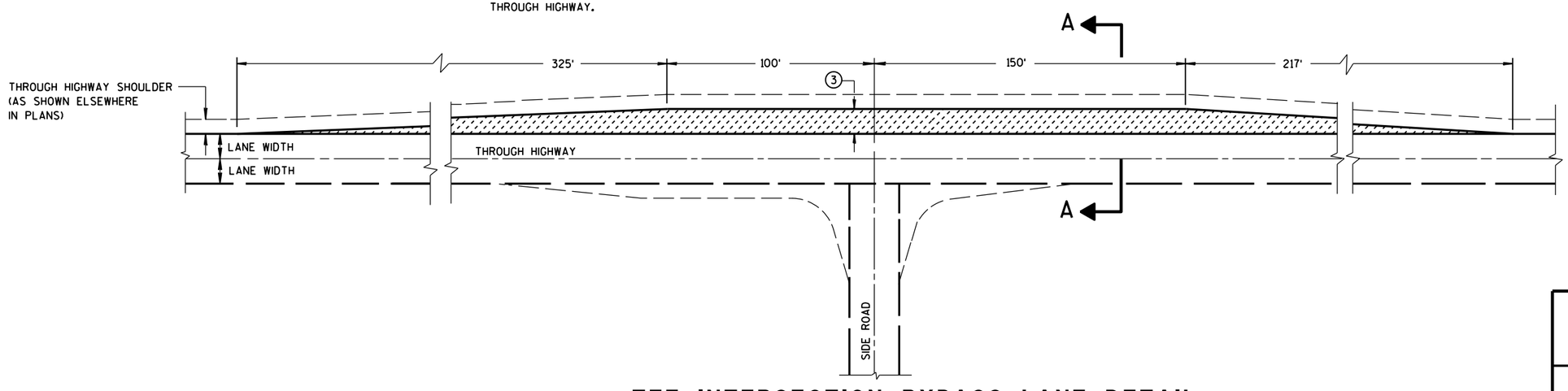
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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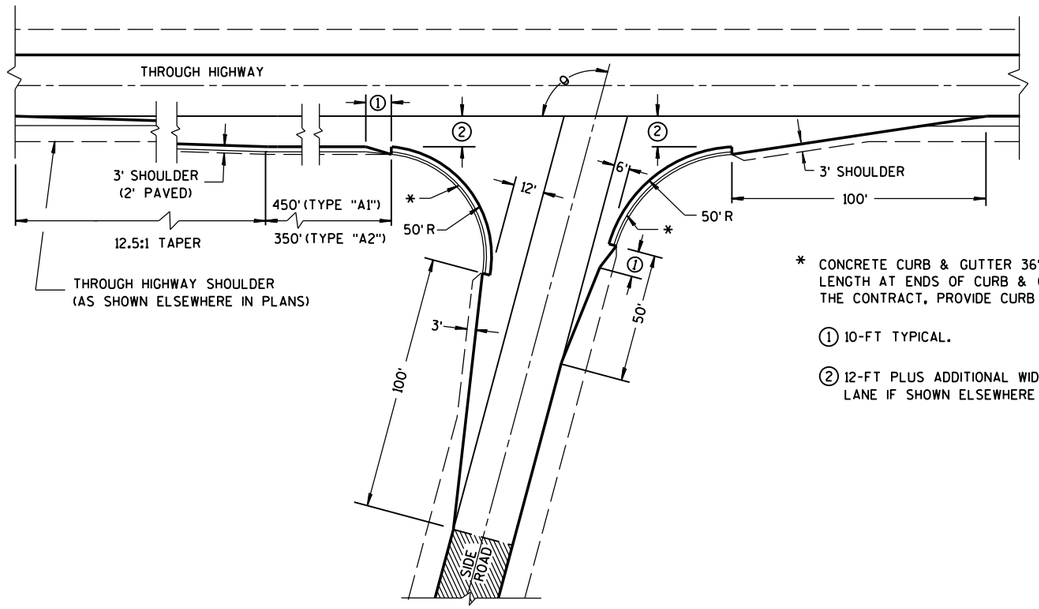
S.D.D. 9 A 1-13a



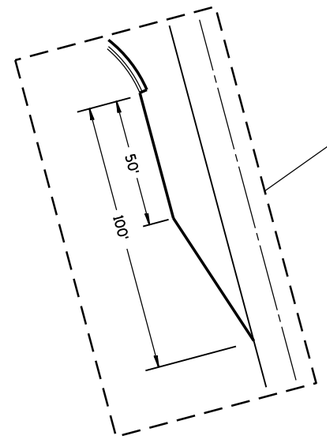
θ = MORE THAN 80°

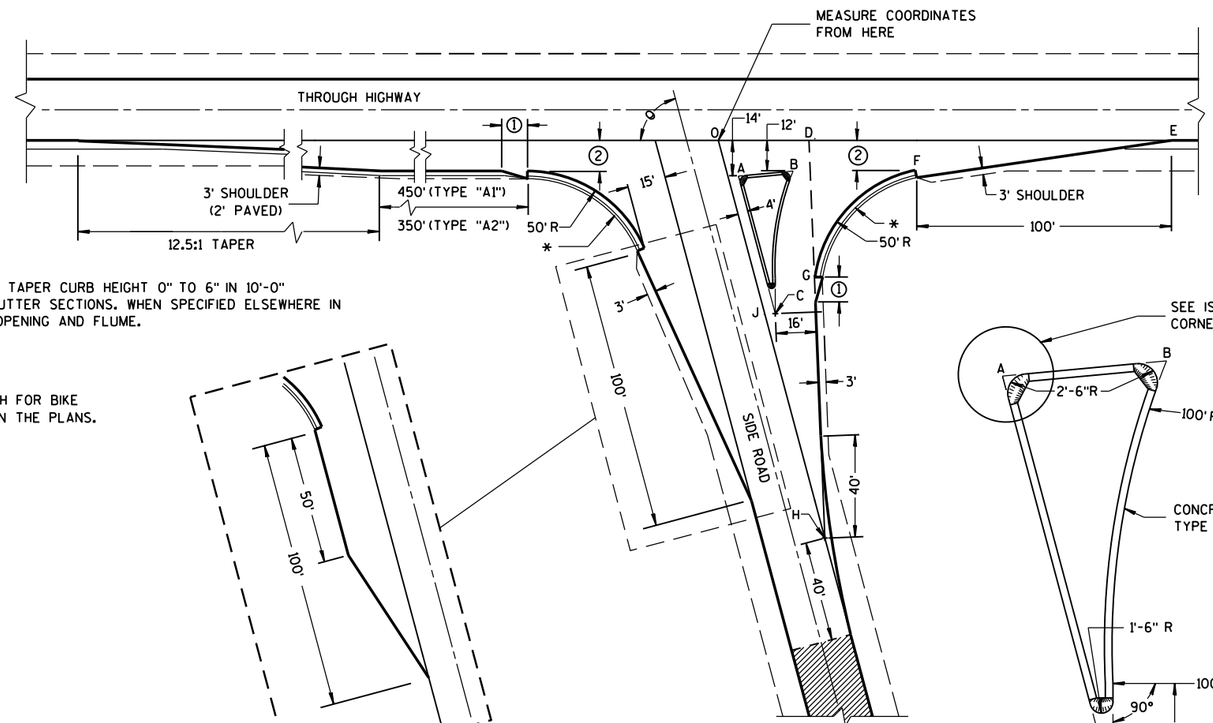
* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 10-FT TYPICAL.

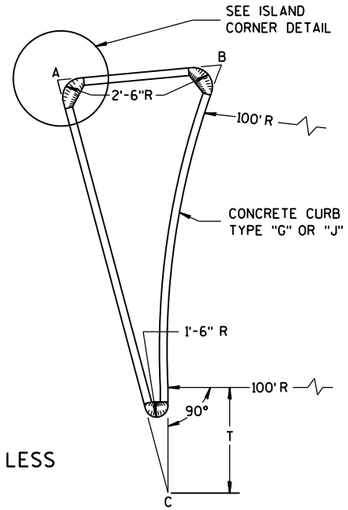
② 12-FT PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLANS.

EXISTING PAVED SURFACE

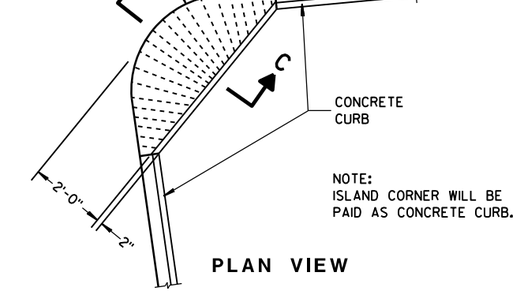




θ = ACUTE ANGLES 80° OR LESS

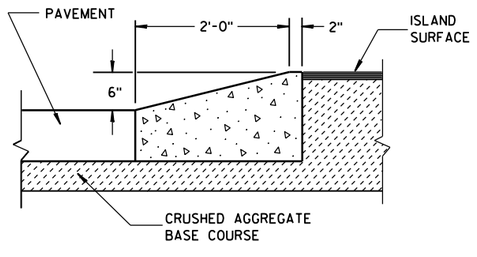


SIDE ROAD WIDENING AND TAPER REQUIRED WHERE
THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
θ = ACUTE ANGLES 70° OR LESS



NOTE:
ISLAND CORNER WILL BE
PAID AS CONCRETE CURB.

PLAN VIEW



SECTION C-C

ISLAND CORNER DETAIL

(TO BE CONSTRUCTED AT ALL ISLAND CORNERS)

TABLE OF DIMENSIONS FOR
VARIABLE SIDE ROAD INTERSECTION ANGLES
(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

ANGLE θ DEGREES	COORDINATES IN FEET (MEASURED FROM POINT "O") X / Y								LENGTH IN FEET				
	A	B	C	D	E	F	G	H	AB	AC	T	OJ	OH
60	12.7 / -14.0	44.9 / -12.0	46.4 / -72.4	41.9 / 0.0	205.0 / 0.0	104.6 / -12.0	64.0 / -75.5	85.0 / -147.1	32.3	67.4	4.9	85.9	169.9
65	10.9 / -14.0	39.0 / -12.0	37.8 / -71.6	39.4 / 0.0	196.1 / 0.0	95.7 / -12.0	54.1 / -71.5	70.5 / -151.3	28.2	63.6	8.5	80.9	166.9
70	9.4 / -14.0	33.9 / -12.0	29.8 / -70.1	37.4 / 0.0	188.3 / 0.0	87.8 / -12.0	45.6 / -67.5	56.1 / -154.2	24.6	59.7	11.5	76.1	164.1
75	7.9 / -14.0	29.3 / -12.0	22.3 / -67.9	35.7 / 0.0	181.2 / 0.0	80.7 / -12.0	38.2 / -63.4	41.8 / -155.9	21.5	55.8	13.8	71.4	161.4
80	6.5 / -14.0	25.4 / -12.0	15.6 / -65.2	34.4 / 0.0	174.8 / 0.0	74.4 / -12.0	31.8 / -59.3	27.6 / -156.5	18.9	52.0	15.6	66.9	158.9

TYPE "A1" & "A2" SIDE ROAD INTERSECTION DETAILS

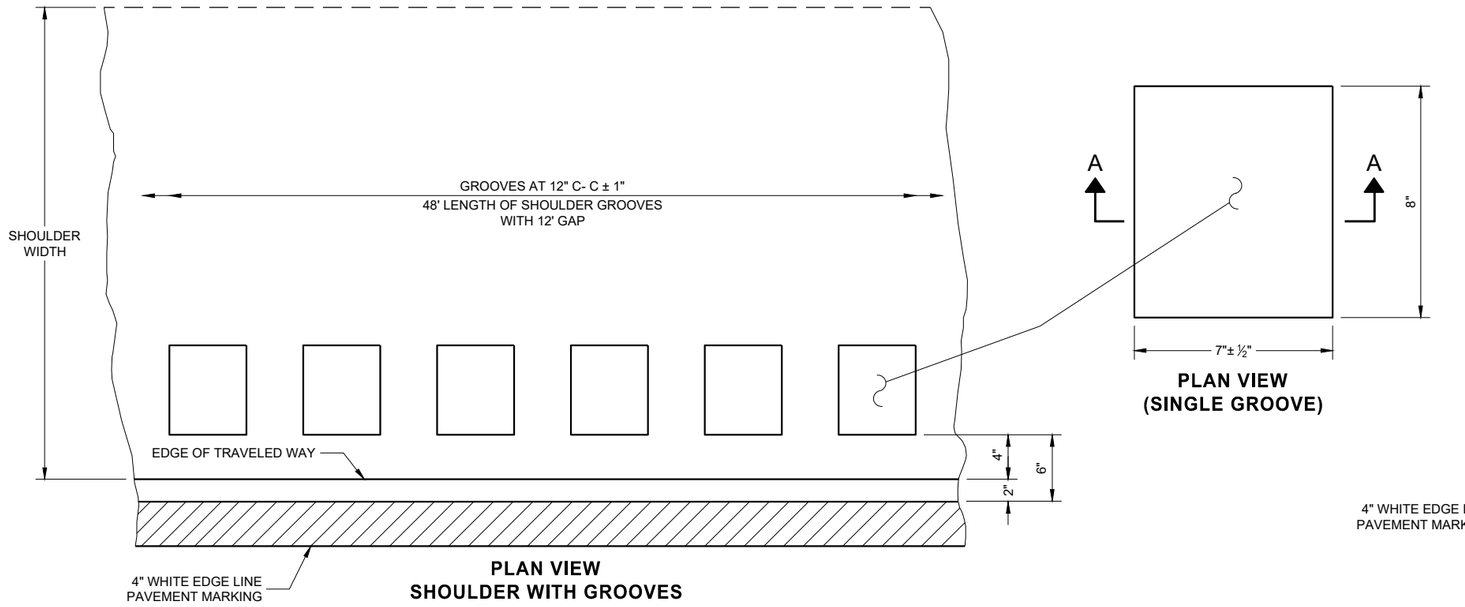
AT-GRADE SIDE ROAD
INTERSECTION, TYPE "A1" & "A2"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/18/12 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

S.D.D. 9 A 1-13b

6



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

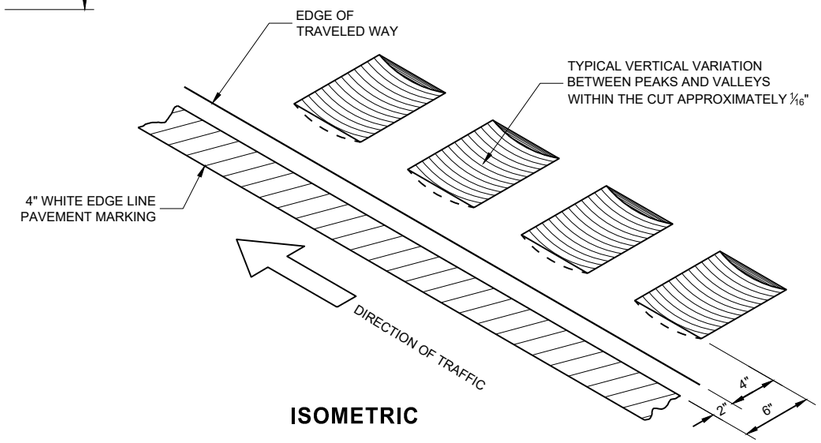
PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP

GENERAL NOTES

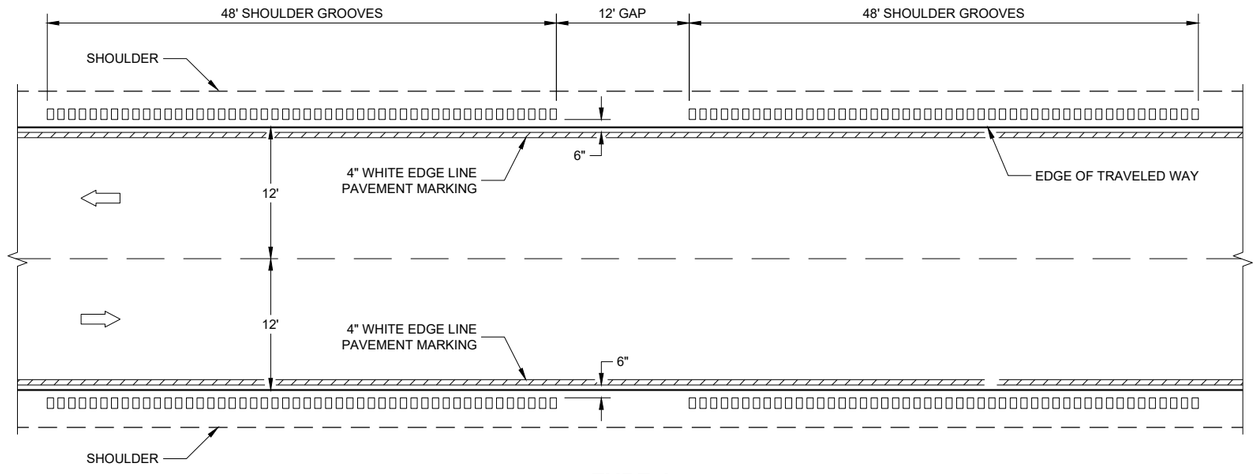
DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

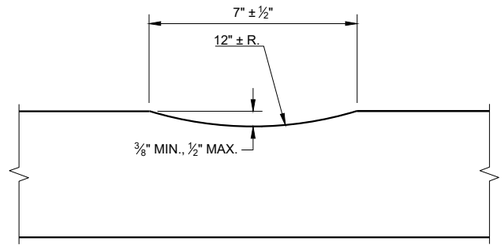
(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



ISOMETRIC



TYPE 1
2 - LANE SHOULDER RUMBLE STRIP



SECTION A - A

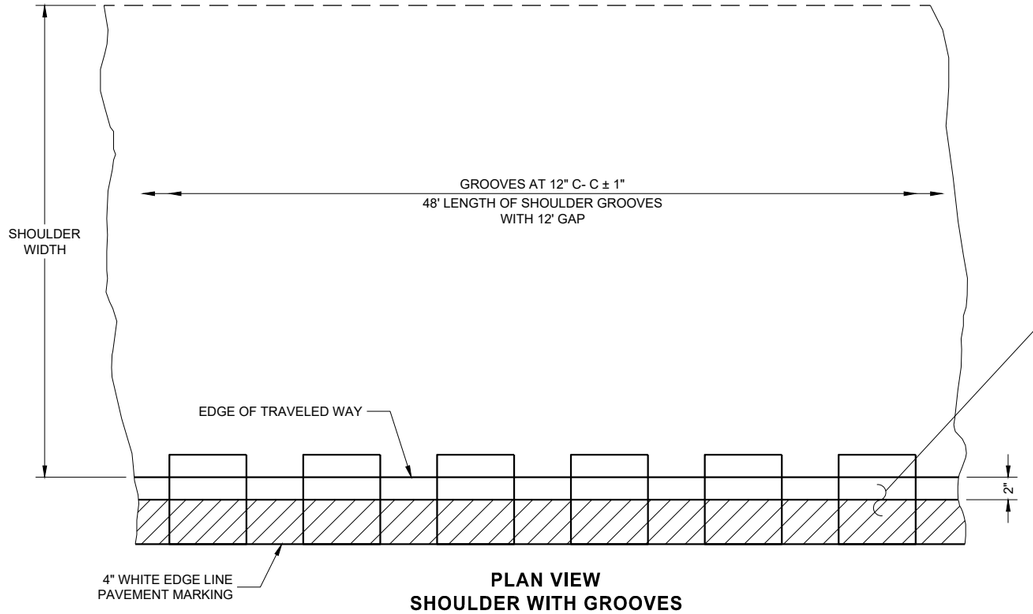
2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

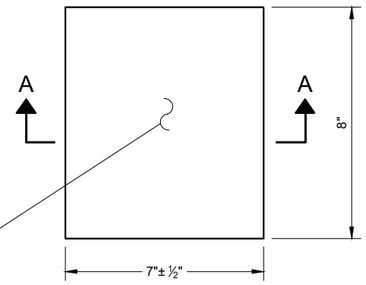
SDD 13A10 - 02a

6

SDD 13A10 - 02a



PLAN VIEW
SHOULDER WITH GROOVES



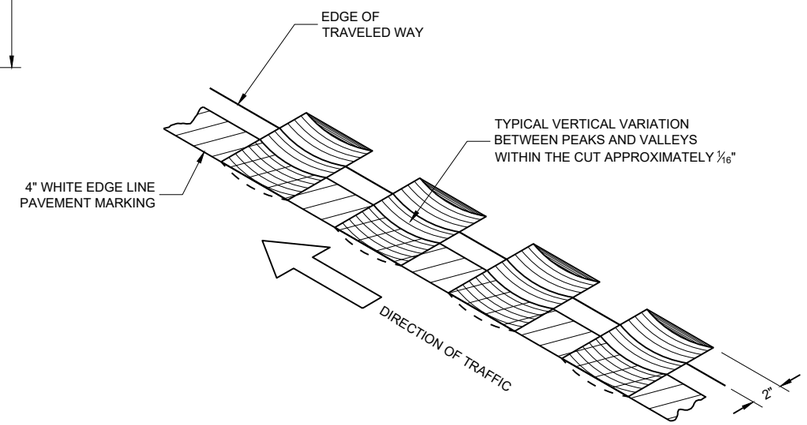
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

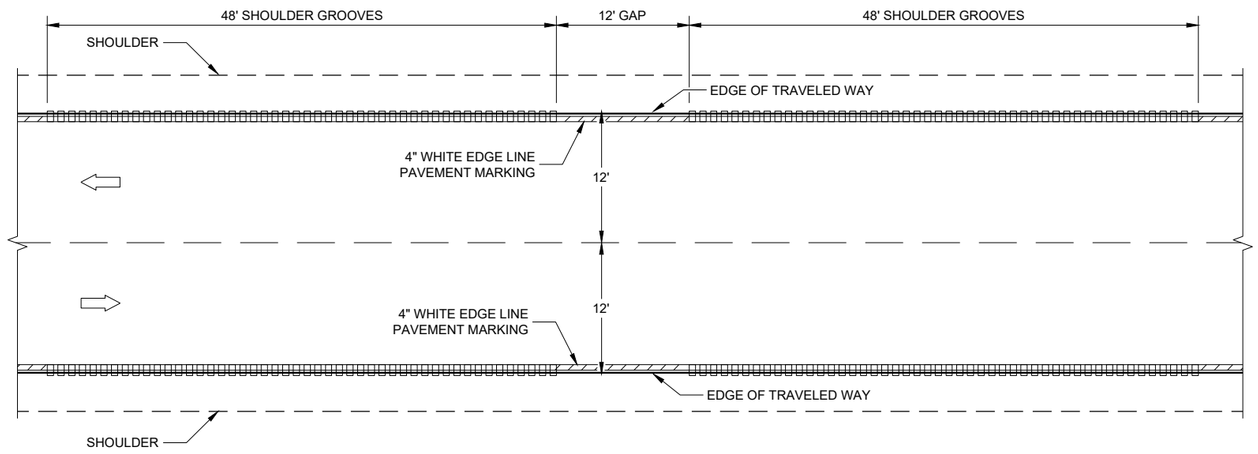
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

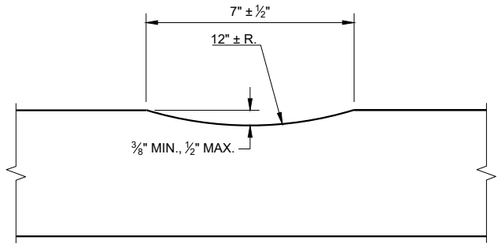


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP



TYPE 2
2 - LANE SHOULDER RUMBLE STRIP



SECTION A - A

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

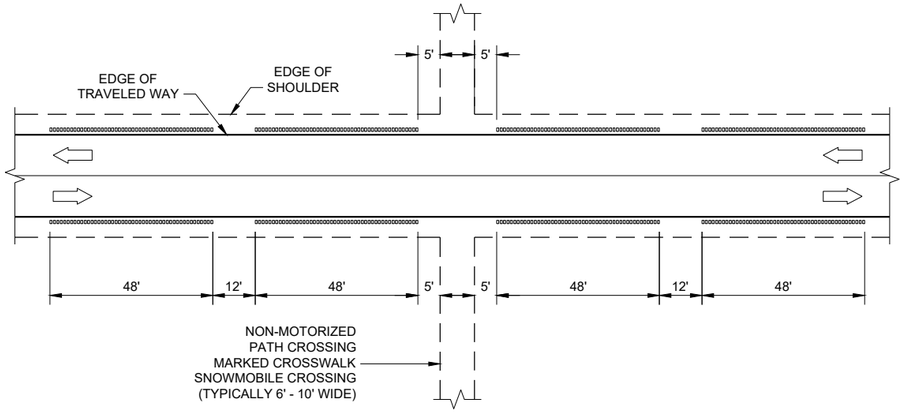
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

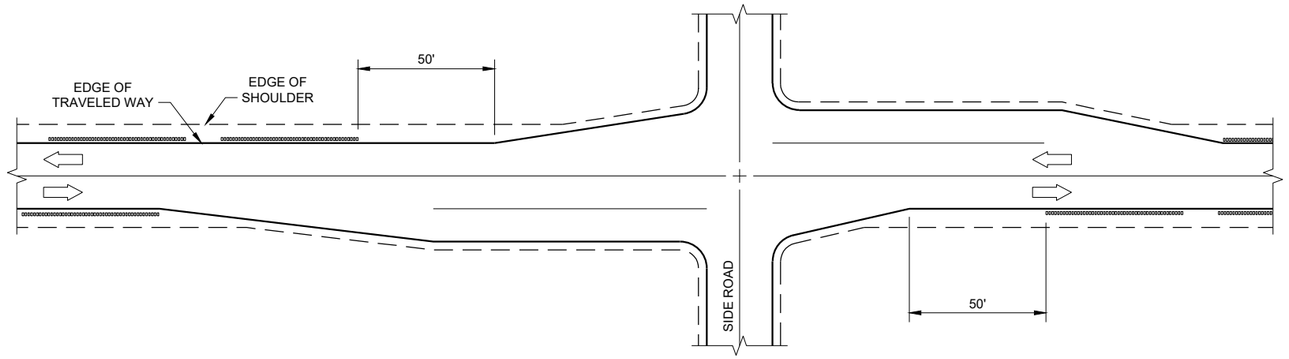
SDD 13A10 - 02b

6

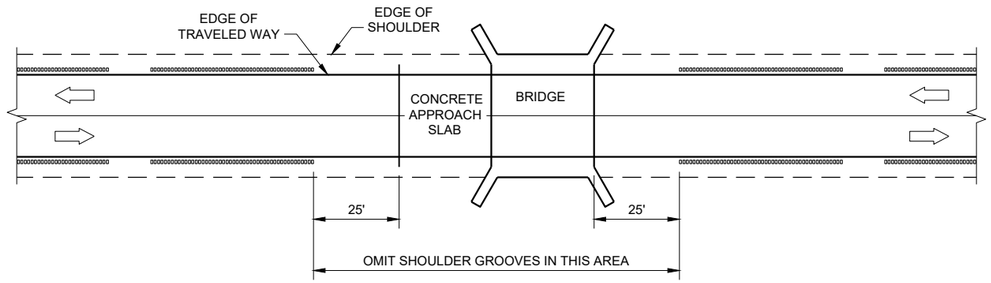
SDD13A10 - 02b



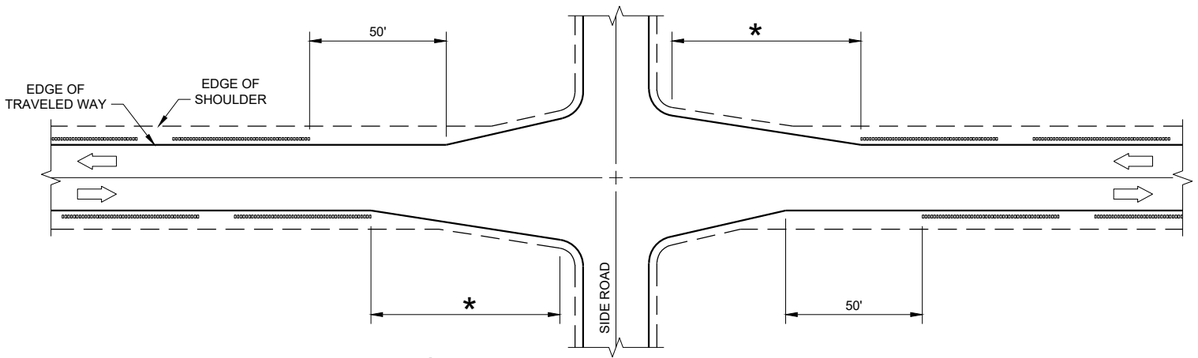
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



SHOULDER GROOVES AT RIGHT TURN LANE

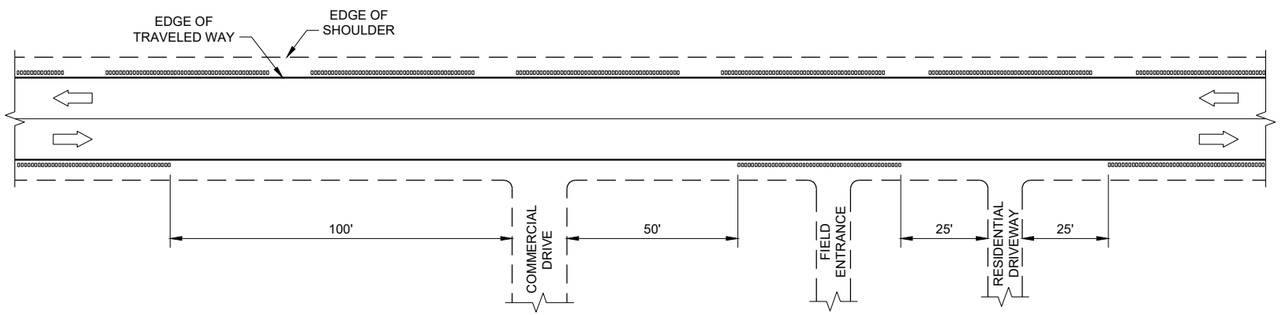


SHOULDER GROOVES AT BRIDGES



* GREATER OF 100' OR APPROACH TAPER LENGTH

SHOULDER GROOVES AT INTERSECTIONS WITH APPROACH TAPER



SHOULDER GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

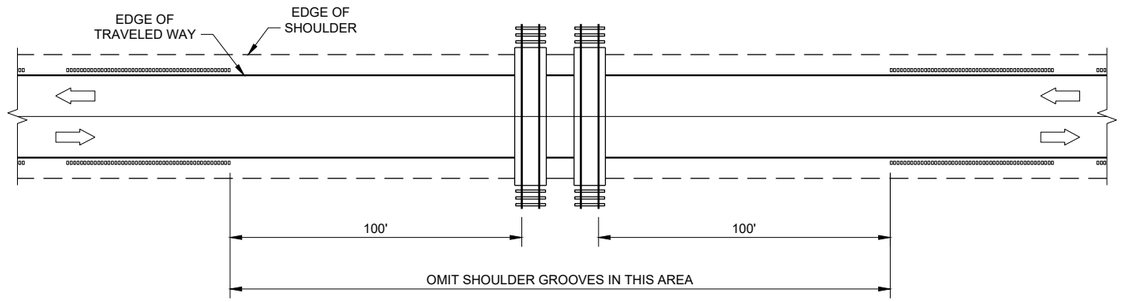
2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

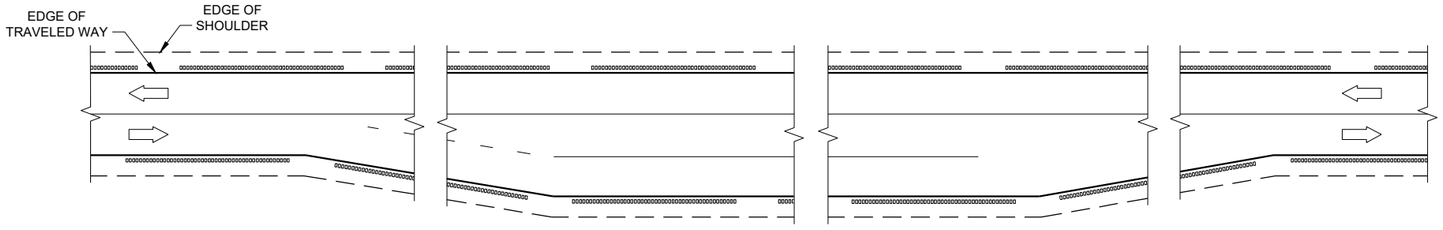
6

SDD 13A10 - 02c

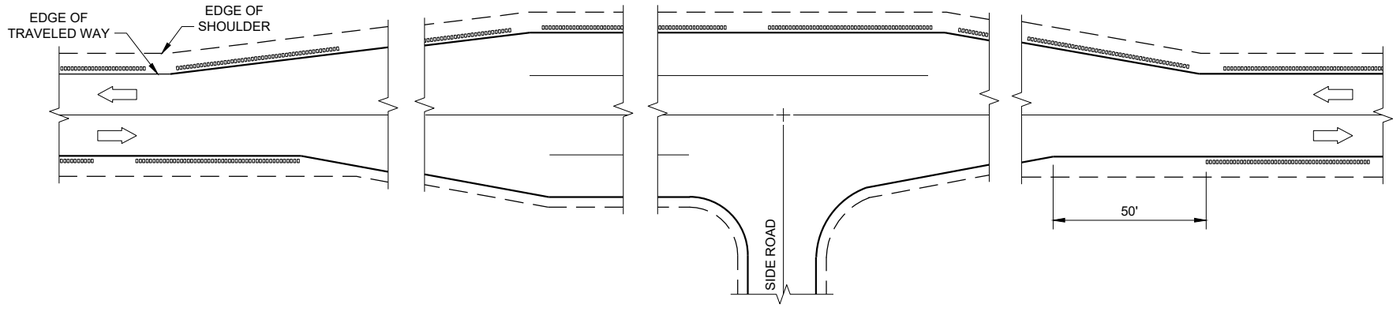
SDD 13A10 - 02c



SHOULDER GROOVES AT RAILROADS



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

6

6

SDD 13A10 - 02d

SDD13A10 - 02d

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

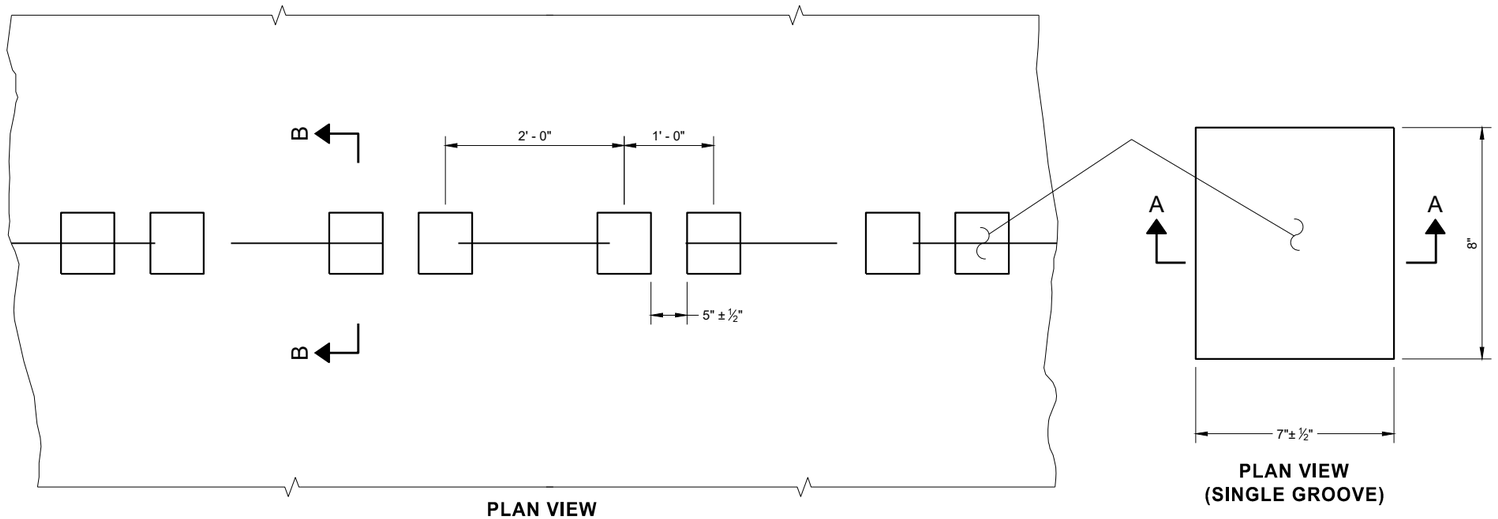
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP

GENERAL NOTES

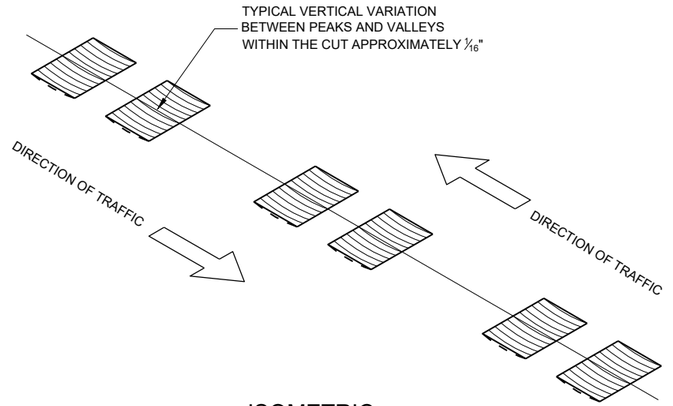
DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTERLINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

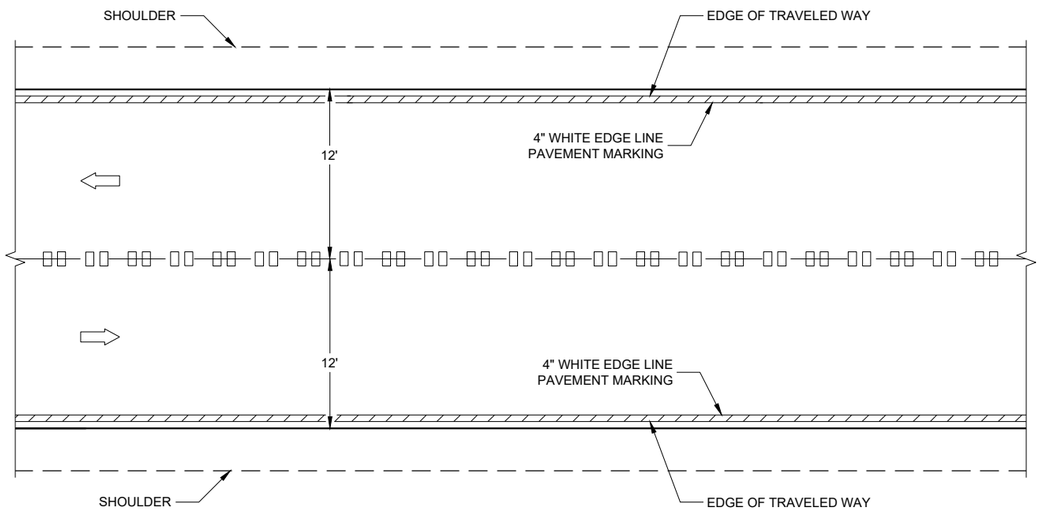
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

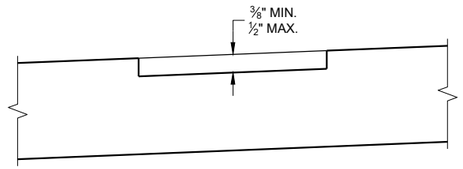
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



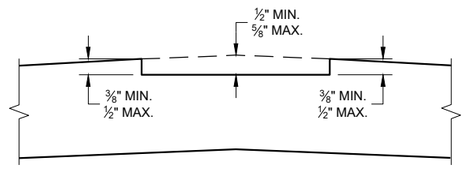
ISOMETRIC



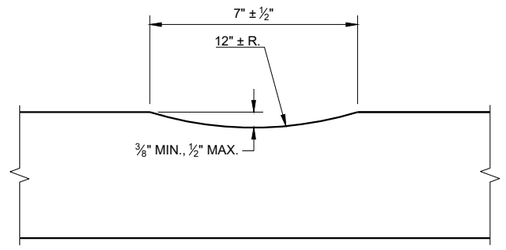
CENTERLINE GROOVES ON TWO-WAY ROADWAYS



SECTION B - B
SUPERELEVATED ROADWAY



SECTION B - B
CROWNED ROADWAY



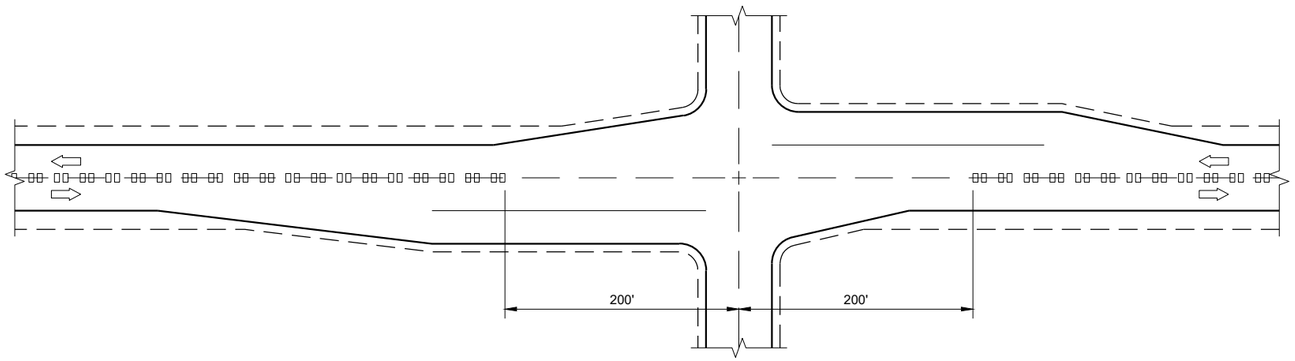
SECTION A - A

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

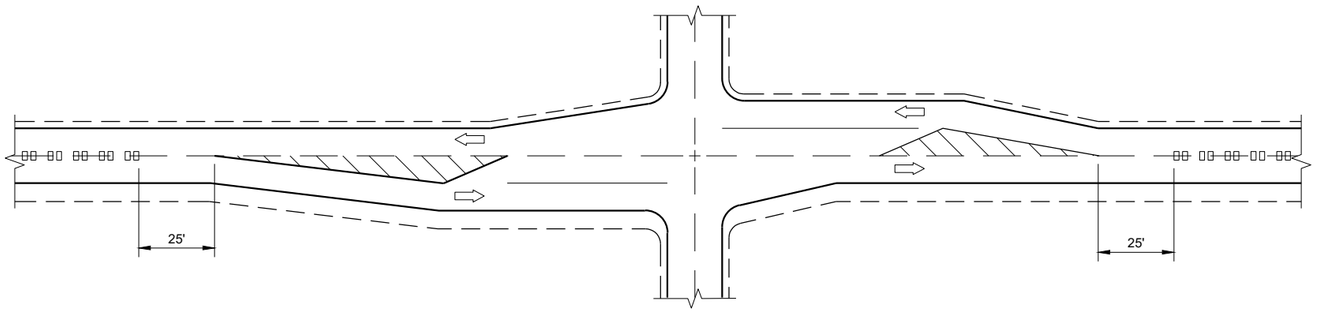
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 13A11 - 03a

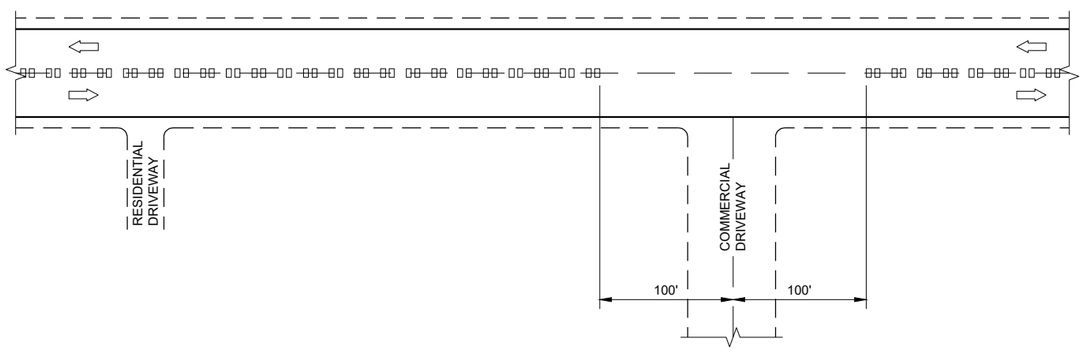
SDD 13A11 - 03a



CENTERLINE GROOVES AT INTERSECTIONS



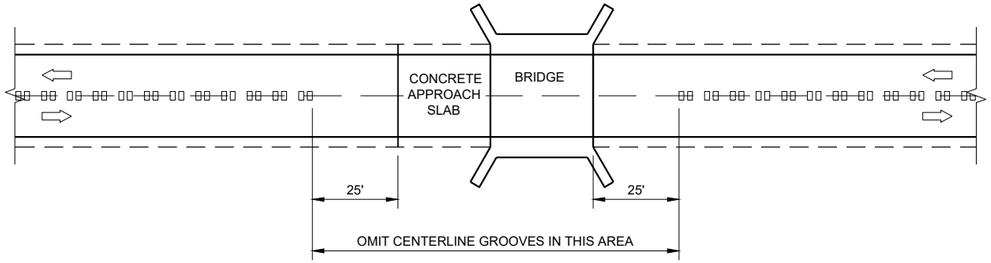
CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



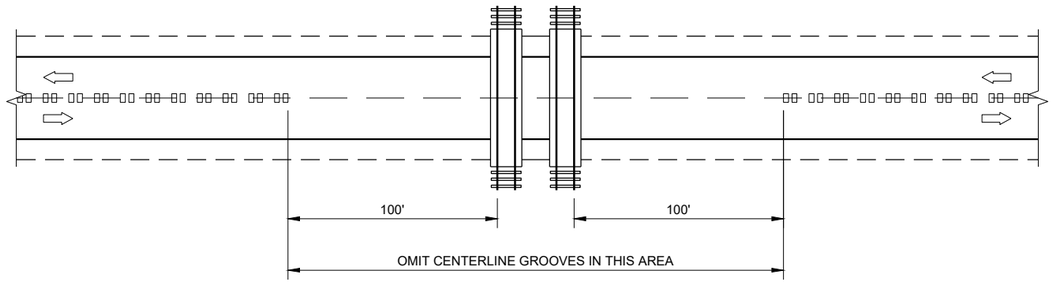
CENTERLINE GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT RAILROADS

2-LANE RURAL CENTERLINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

SDD 13A11 - 03b

6

SDD 13A11 - 03b

GENERAL NOTES

(1) W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS.

DO NOT MIX STEEL POSTS AND WOOD POSTS IN A SINGLE INSTALLATION.

(2) USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGED SPELTER COATING ON GALVANIZED POSTS.

(3) INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(4) USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.

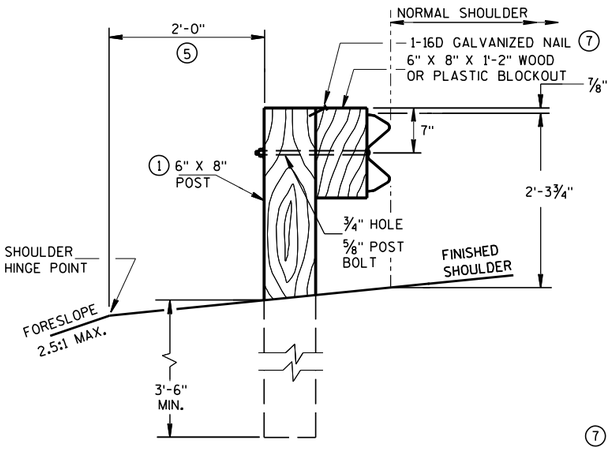
(5) IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).

(6) IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.

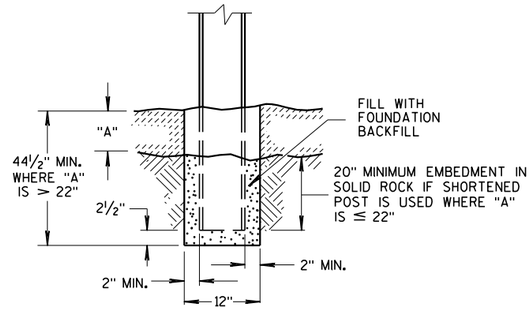
(7) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

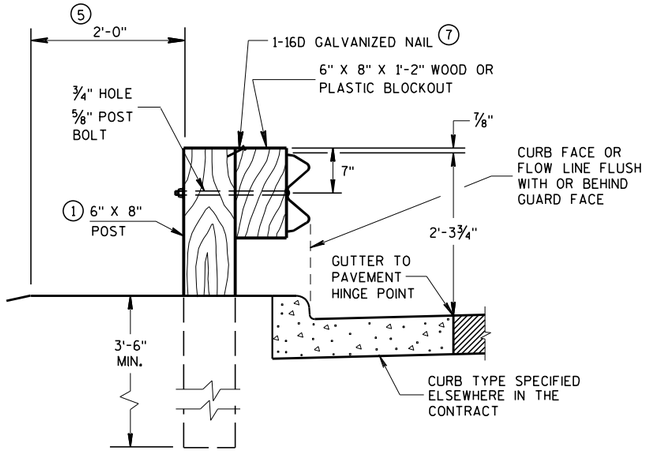
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



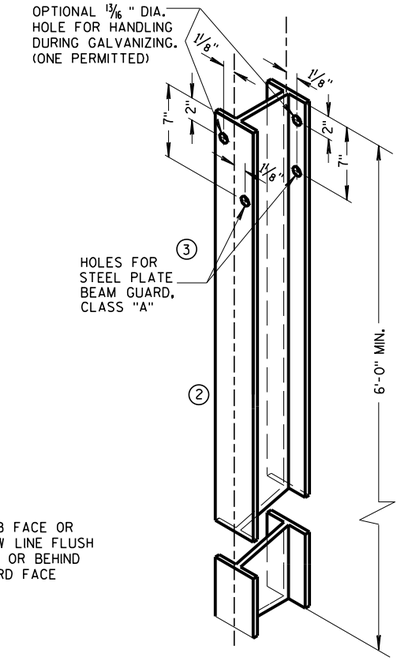
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)

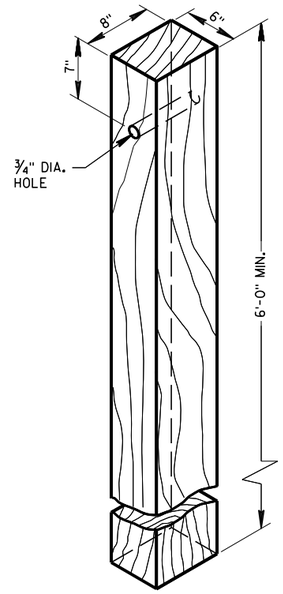


END VIEW
LOCATED ALONG A CURBED ROADWAY

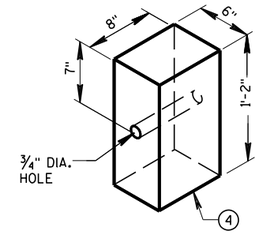


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) (1)

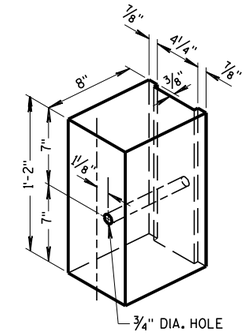
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



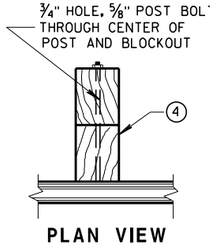
WOOD POST
(6"X8") NOMINAL



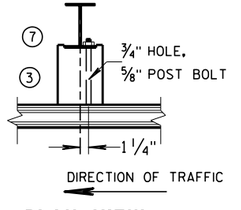
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



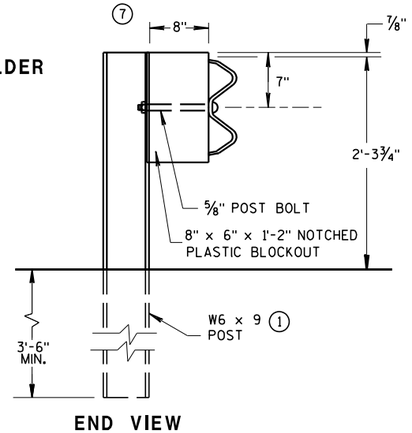
TYPICAL NOTCHED
PLASTIC BLOCKOUT
FOR STEEL POSTS (1)



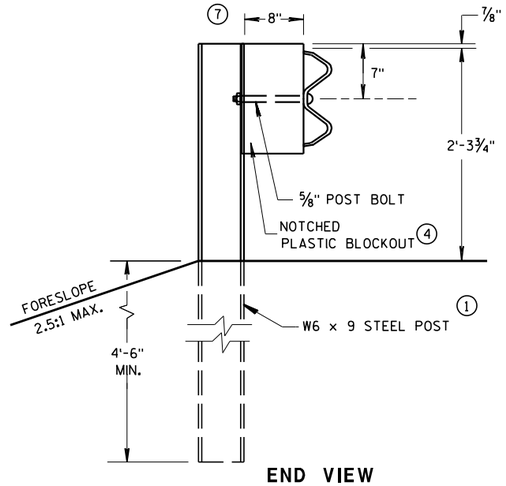
PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



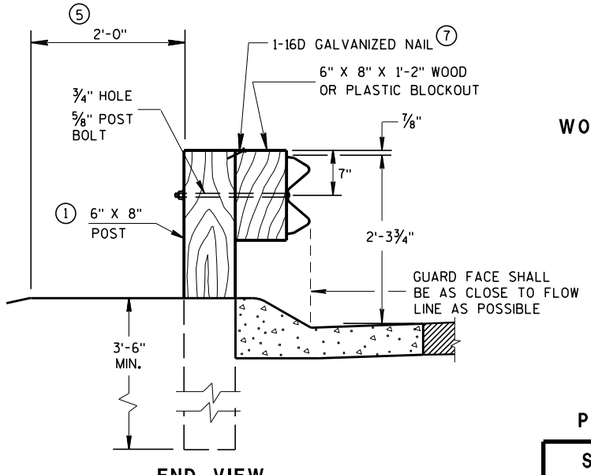
PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM



END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



END VIEW
LONGER POST AT HALF
POST SPACING W BEAM
(LHW)



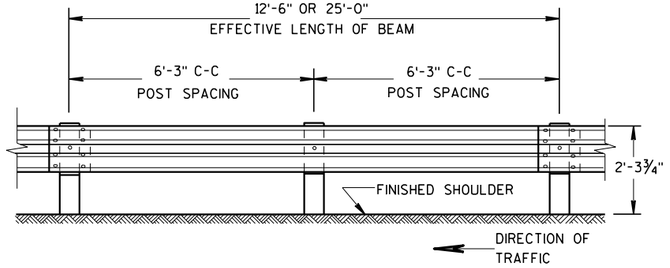
END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

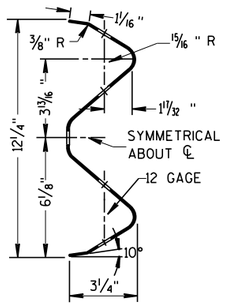
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 15-11a

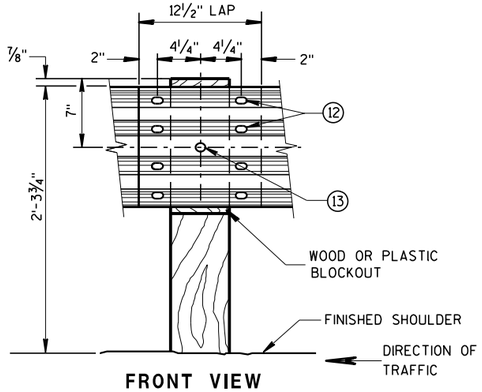


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM



FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

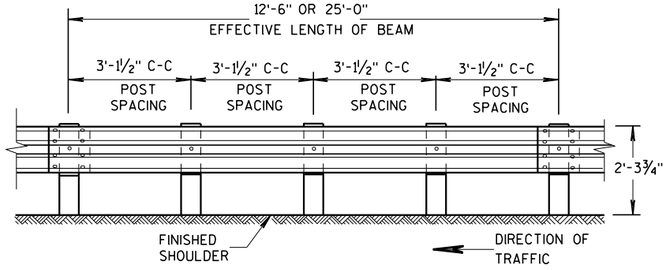
GENERAL NOTES

FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

(9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA. START REFLECTORS AT POST #9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.

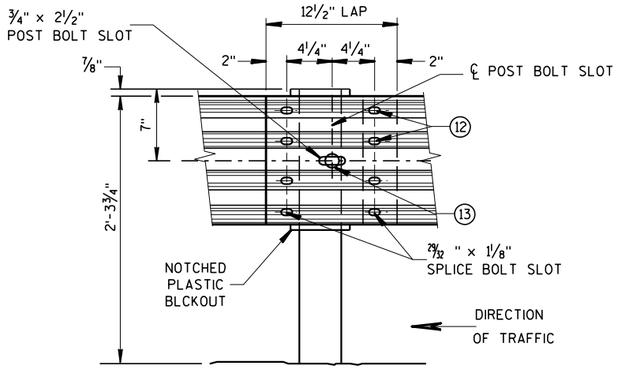
(12) 8 -5/8" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.

(13) 5/8" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH 5/8" DIA. F844 FLAT WASHER UNDER NUT.



FRONT VIEW

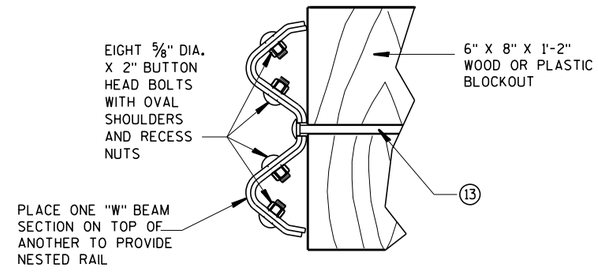
POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST

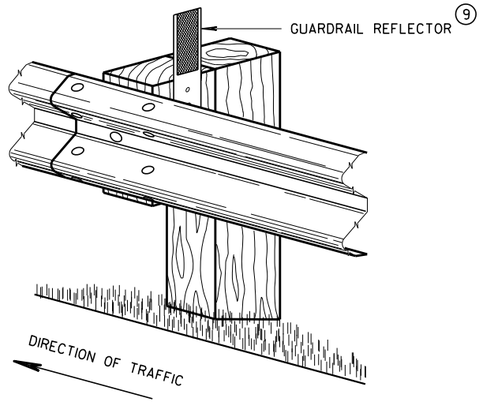
TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD



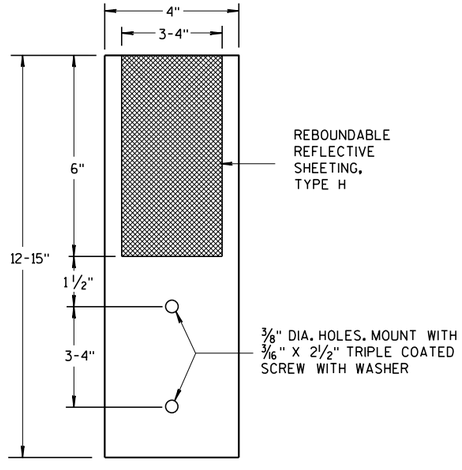
NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

* USE DOUBLE SIDED WHITE GUADRAIL REFLECTORS ON ROADWAYS WITH BI-DIRECTIONAL TRAFFIC (NO MEDIAN). USE SINGLE SIDED WHITE (RIGHT SIDE) AND SINGLE SIDED YELLOW (LEFT SIDE) ON ROADWAYS WITH MEDIAN SEPARATION.



4" X 12" GUARDRAIL REFLECTOR DETAIL AND TYPICAL INSTALLATION *



4"x 12" GUARDRAIL REFLECTOR

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

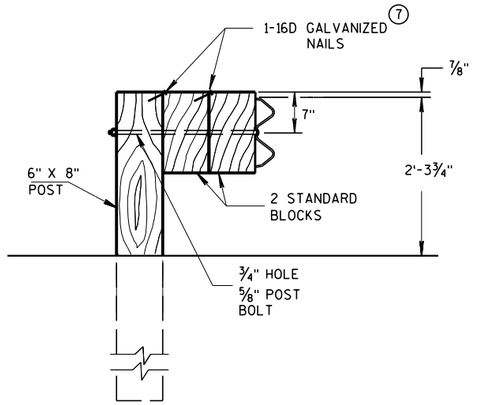
STATE OF WISCO 213
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 15-11b

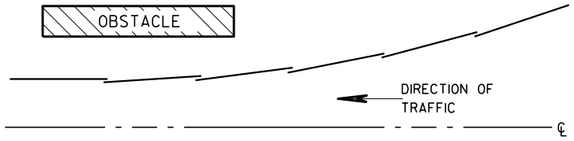
6

S.D.D. 14 B 15-11b

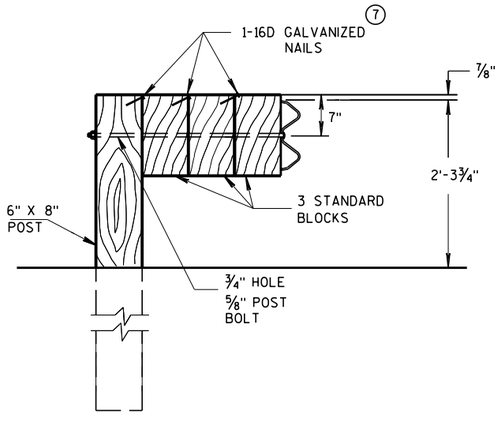


DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

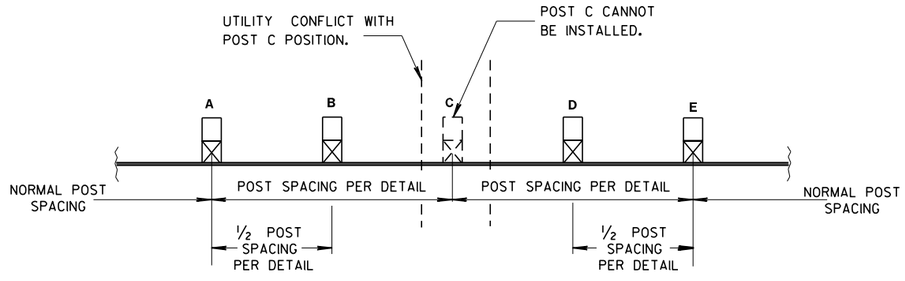


PLAN VIEW
BEAM LAPPING DETAIL



DETAIL FOR TRIPLE BLOCKS

TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

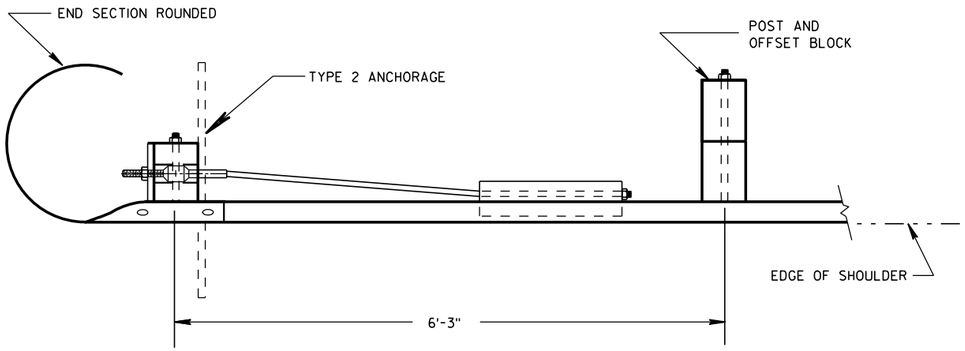
DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

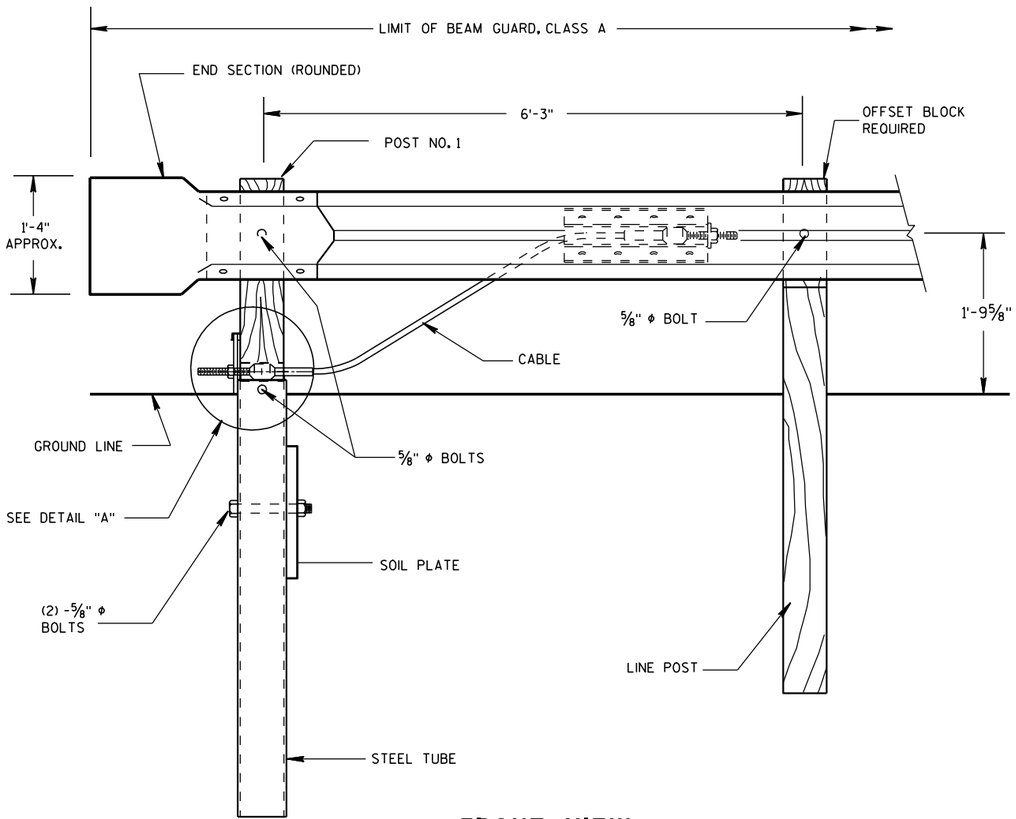
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

6
S.D.D. 14 B 15-11c



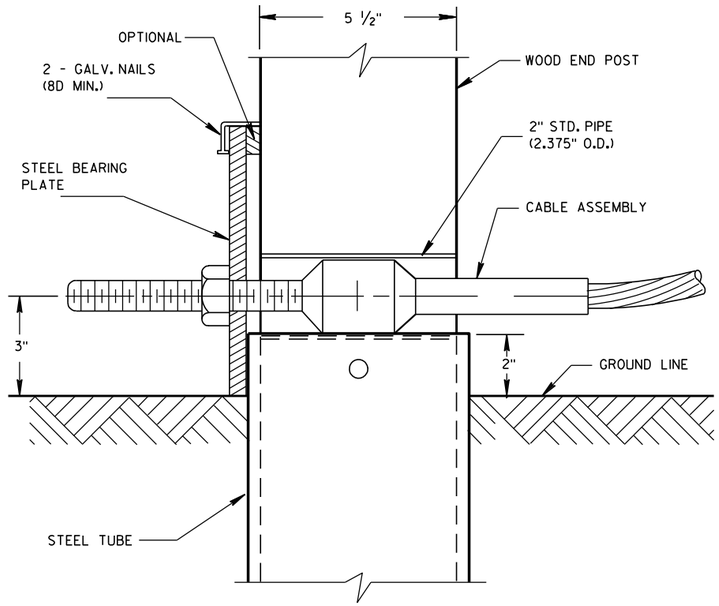
PLAN VIEW



FRONT VIEW

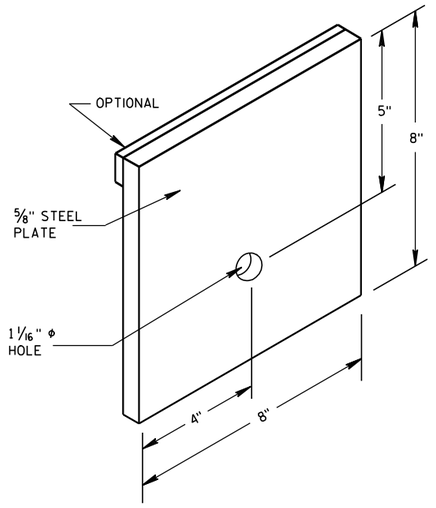
END TREATMENT WITH TYPE 2 ANCHORAGE

(USE ON ONE-WAY ROADWAYS ONLY - DEPARTING END)



DETAIL "A"

POST NO. 1



STEEL BEARING PLATE

ANCHORAGE FOR STEEL
PLATE BEAM GUARD
TYPE 2

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 16-4a

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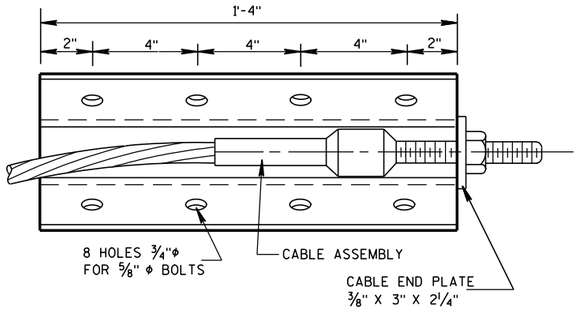
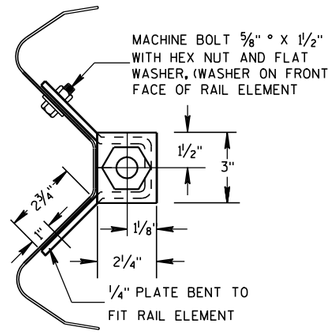
S.D.D. 14 B 16-4a

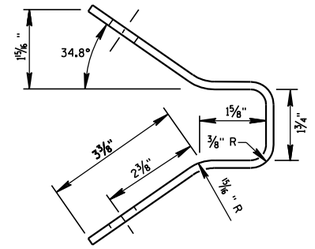


FRONT VIEW

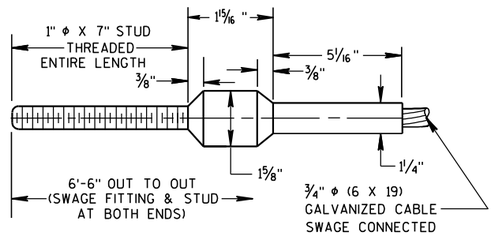


END VIEW

ANCHOR PLATE DETAIL



END VIEW OF BRACKET



CABLE ASSEMBLY

CABLE, SWAGE FITTING, STUD AND NUT SHALL DEVELOP
A MINIMUM BREAKING STRENGTH OF 40,000 LB
(TIGHTEN UNTIL TAUT)

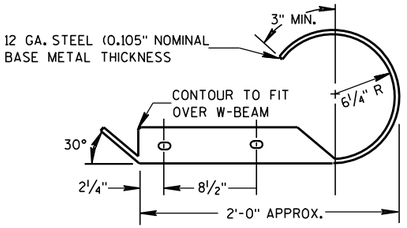
GENERAL NOTES

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

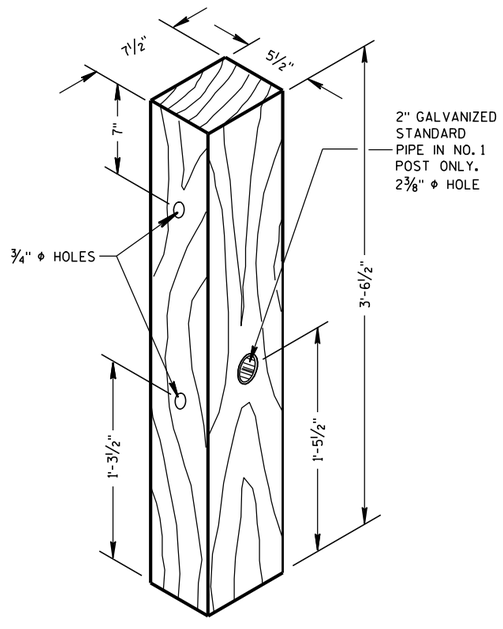
STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-500 GRADE B OR ASTM A-501.

POST NO. 1 SHALL BE WOOD BREAKAWAY POST INSERTED AND BOLTED INTO STEEL TUBE.

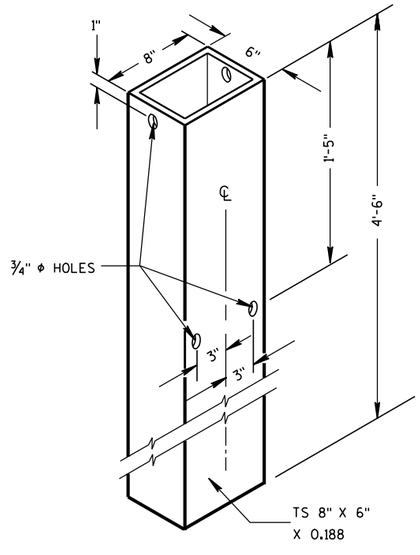
TYPE 2 ANCHORAGE SHALL CONSIST OF A STEEL TUBE, SOIL PLATE WOOD BREAKAWAY POST, BEARING PLATE, ANCHOR PLATE, CABLE ASSEMBLY AND ALL ASSOCIATED HARDWARE, ALL STEEL PARTS SHALL BE GALVANIZED.



PLAN VIEW

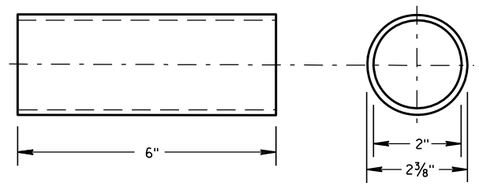


WOOD BREAKAWAY POST



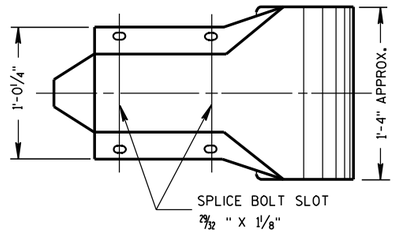
STEEL TUBE

STEEL TUBE SHALL CONFORM TO
REQUIREMENTS OF ASTM A500

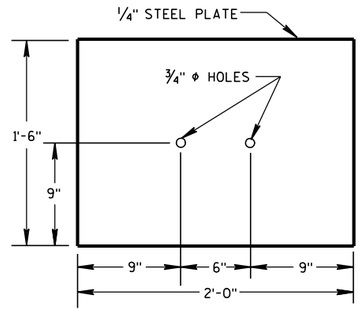


BREAKAWAY TERMINAL POST SLEEVE

GALVANIZED STANDARD STRENGTH STEEL PIPE, ASTM 53 GRADE "B"



FRONT VIEW
W BEAM END SECTION ROUNDED



SOIL PLATE

ANCHORAGE FOR STEEL
PLATE BEAM GUARD
TYPE 2

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/21/2007
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 16-4b

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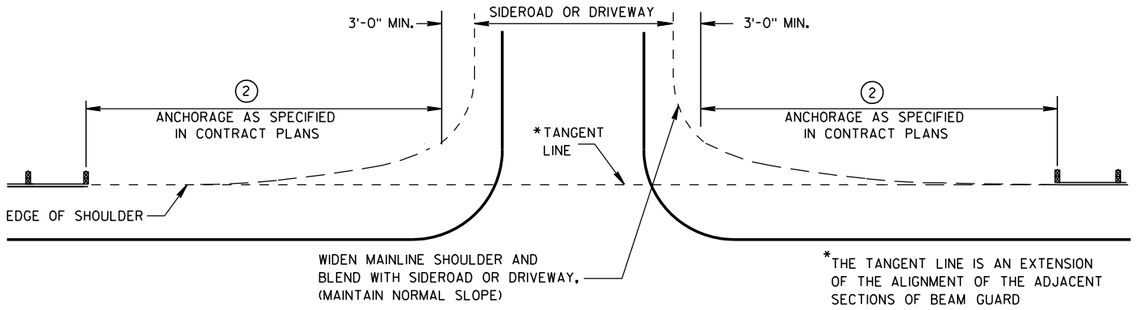
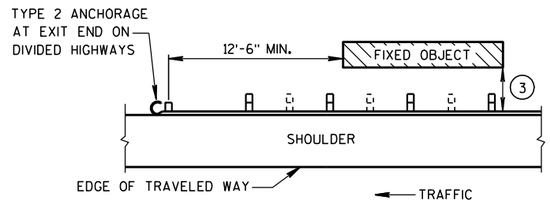
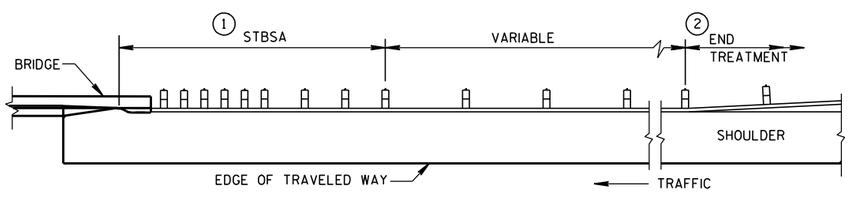
S.D.D. 14 B 16-4b



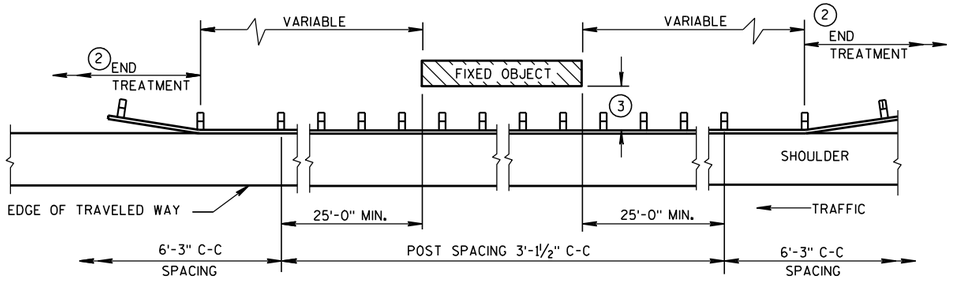
BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES EXIT END - ONE WAY TRAFFIC

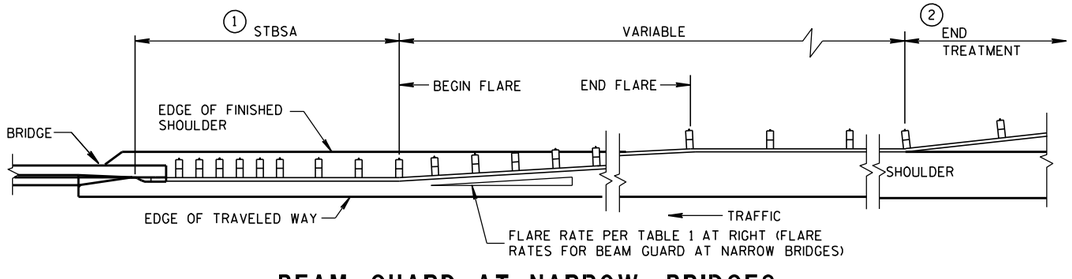


BEAM GUARD AT FULL WIDTH BRIDGES



BEAM GUARD AT OBSTACLES - TWO WAY TRAFFIC

(RAIL TO OBSTACLE CLEARANCE 3'-6" TO 4'-6")



BEAM GUARD AT NARROW BRIDGES

(FLARED TO SHOULDER EDGE, THEN PARALLEL TO ROADWAY)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

(1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) - SEE CURRENT SDD 14B20.

(2) USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

(3)

MINIMUM LATERAL DISTANCE FROM FACE OF BEAM GUARD TO FIXED OBJECT	POST SPACING
3'-6"	3' - 1½"
4'-6"	6' - 3"

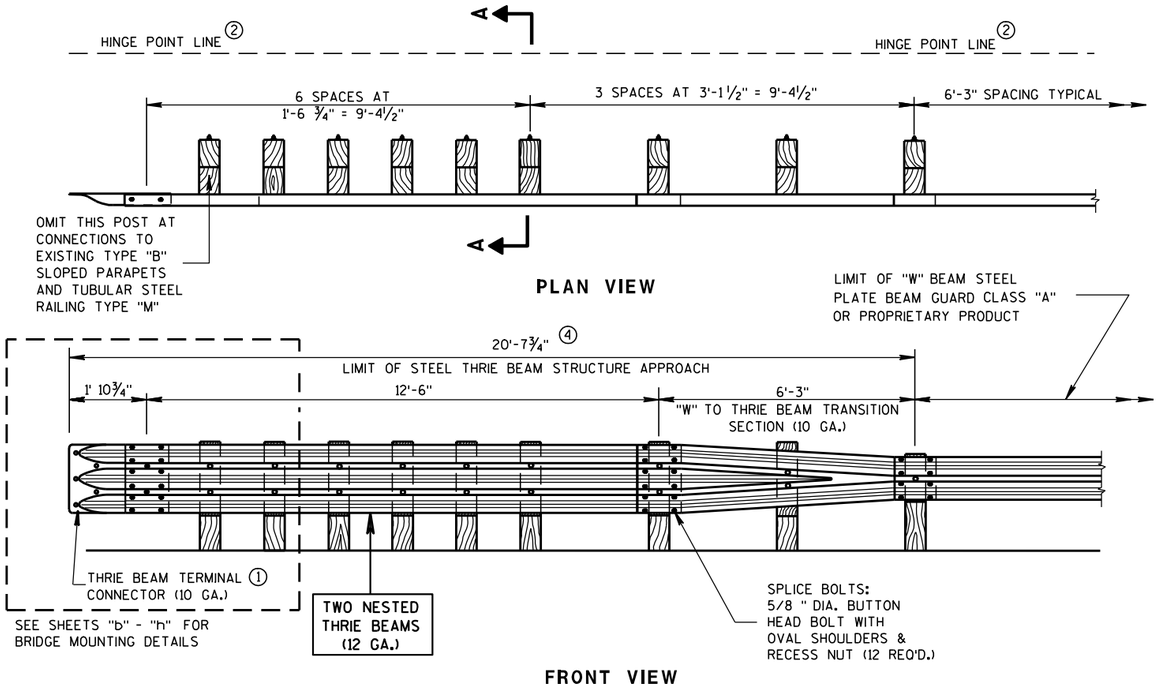
TABLE 1
FLARE RATES FOR BEAM GUARD AT NARROW BRIDGES

POSTED SPEED (MPH)	FLARE RATE
25	13:1
30	15:1
35	16:1
40	18:1
45	21:1
50	24:1
55	26:1
65	30:1

STEEL PLATE BEAM GUARD CLASS "A" AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-21-07 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA



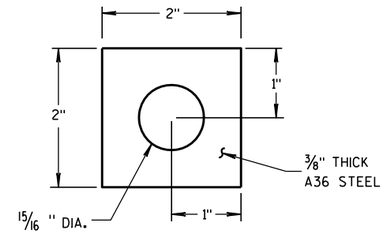


PLATE WASHER DETAIL

GENERAL NOTES

BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3".

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.

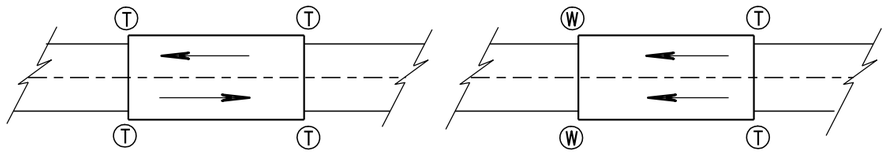
IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2 1/2" , AND 12" DIAMETER AROUND POST. SEE 14B15 FOR MORE DETAILS.

① BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

② MINIMUM EMBEDMENT SHALL BE 4'-0". WHERE EXISTING CONDITIONS DO NOT PERMIT THE APPROPRIATE EARTHWORK SHOWN ON THE PLAN TYPICAL SECTIONS OR DETAILS, THE ENGINEER MAY ALLOW THE REDUCTION OR ELIMINATION OF THE 2 FOOT DISTANCE TO THE HINGE POINT. OTHERWISE BUILD AS THE PLAN SHOWS OR AS THE ENGINEER DIRECTS. IF THE 2 FOOT DISTANCE TO THE HINGE POINT IS REDUCED OR ELIMINATED, INCREASE THE POST EMBEDMENT DEPTH TO 4'-6" OR MORE.

③ POST BOLTS ARE 5/8" DIAMETER ASTM A307 BUTTON HEAD BOLT. A POST BOLT REQUIRES A 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX AND A 5/8" DIAMETER F844 FLAT WASHER. LENGTH OF POST BOLT MAY VARY.

④ ALL WOOD POSTS MUST BE 6" X 8" AND AT LEAST 7'-0" LONG.



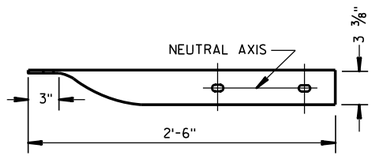
TWO WAY TRAFFIC

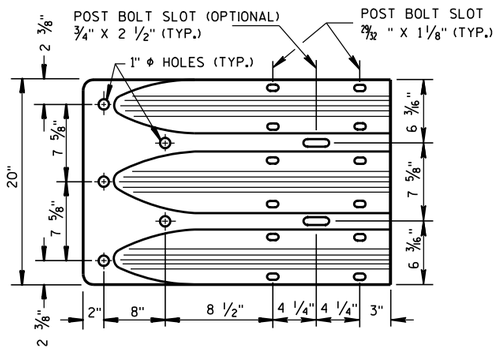
ONE WAY TRAFFIC

T THRIE BEAM CONNECTION

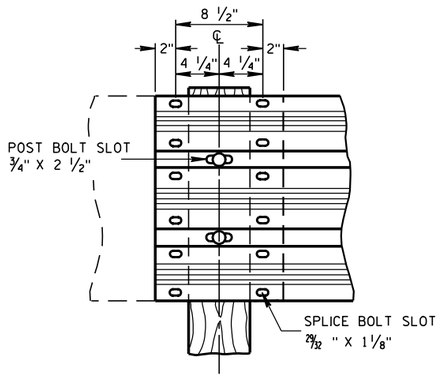
W W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

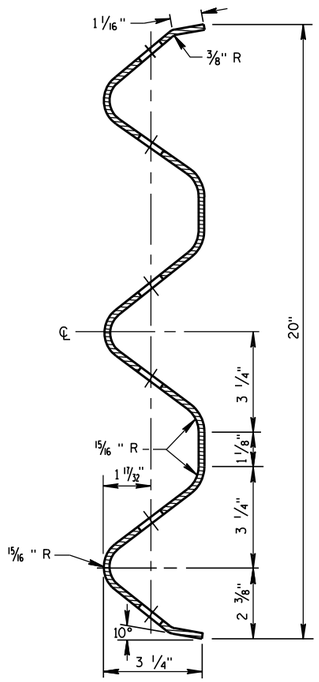




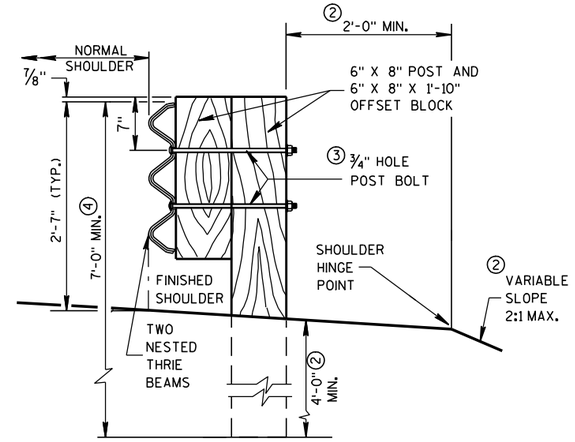
THRIE BEAM TERMINAL CONNECTOR



THRIE BEAM SPLICE



SECTION THRU THRIE BEAM RAIL ELEMENT



SECTION A-A

STEEL THRIE BEAM STRUCTURE APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

218

FHWA

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S.D.D. 14 B 20-11a

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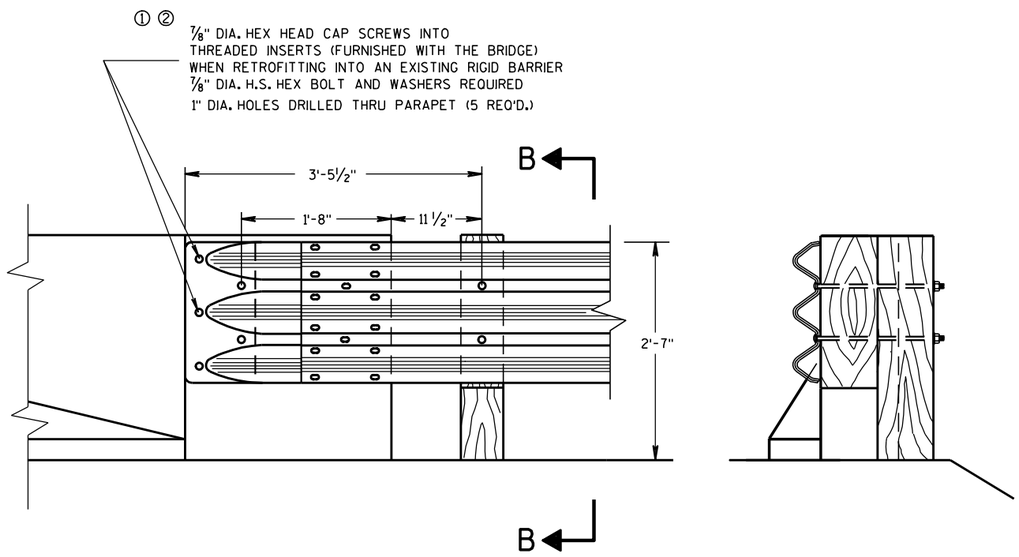
S.D.D. 14 B 20-11a



FRONT VIEW

SECTION B-B

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A325, A449 AND GALVANIZED PER STANDARD SPECIFICATIONS 614.

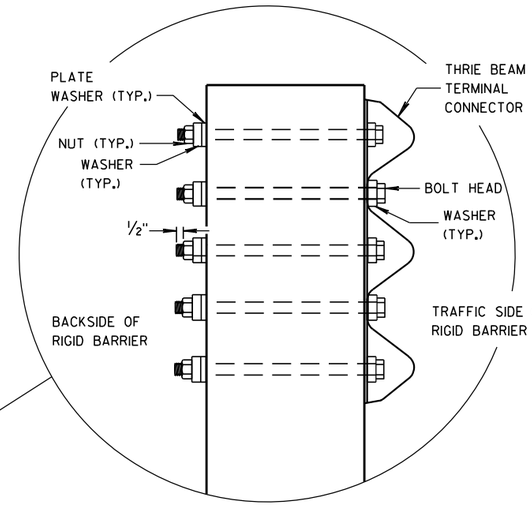
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

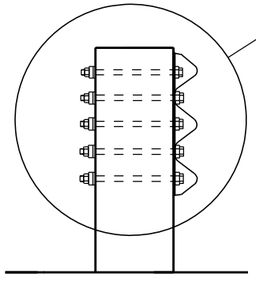
② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM TERMINAL CONNECTOR. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X ⅝" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

③ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

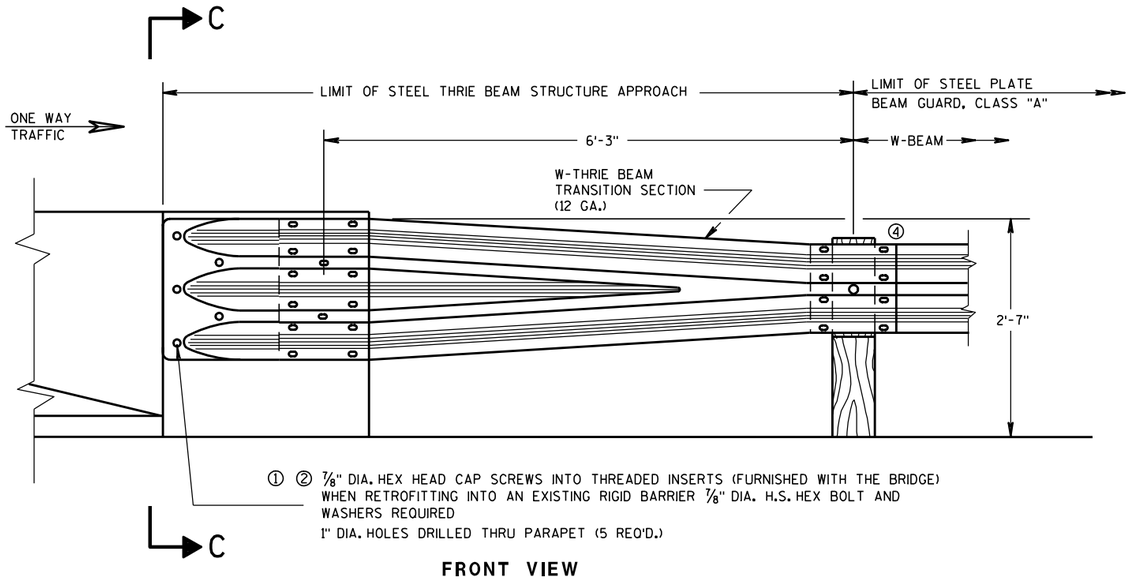
④ W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POST WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.





SECTION C-C



① ② ⅞" DIA. HEX HEAD CAP SCREWS INTO THREADED INSERTS (FURNISHED WITH THE BRIDGE) WHEN RETROFITTING INTO AN EXISTING RIGID BARRIER ⅞" DIA. H.S. HEX BOLT AND WASHERS REQUIRED
1" DIA. HOLES DRILLED THRU PARAPET (5 REQ'D.)

FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END PARAPETS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

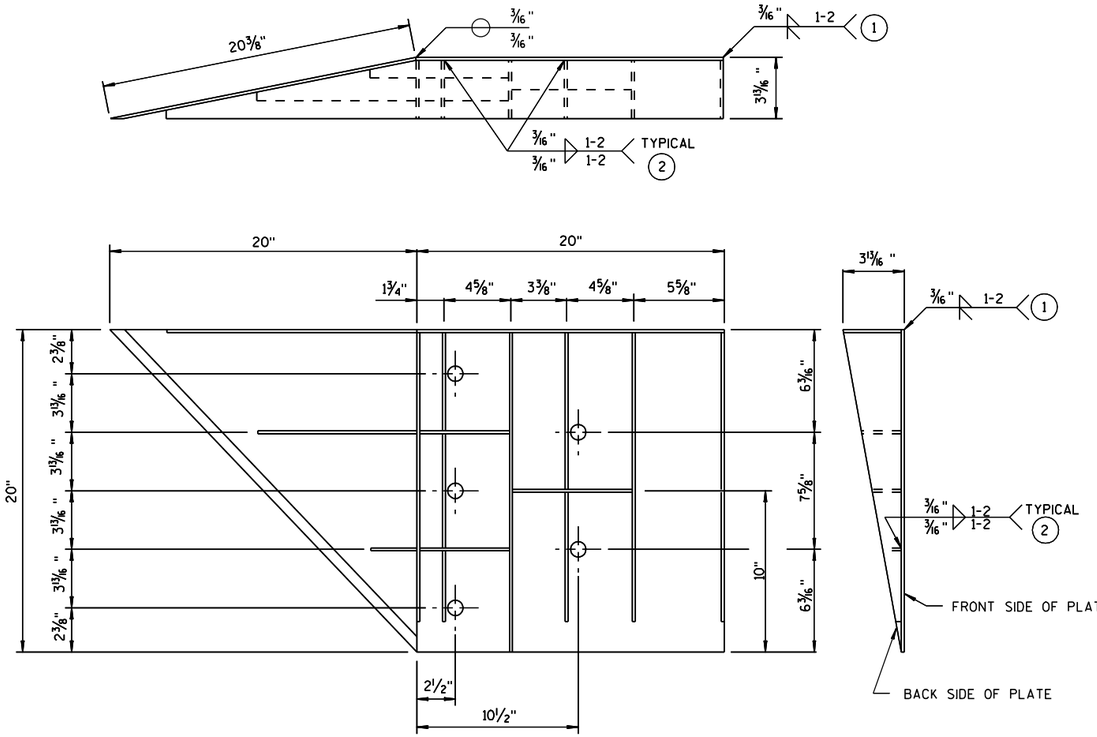
FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(1) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(2) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

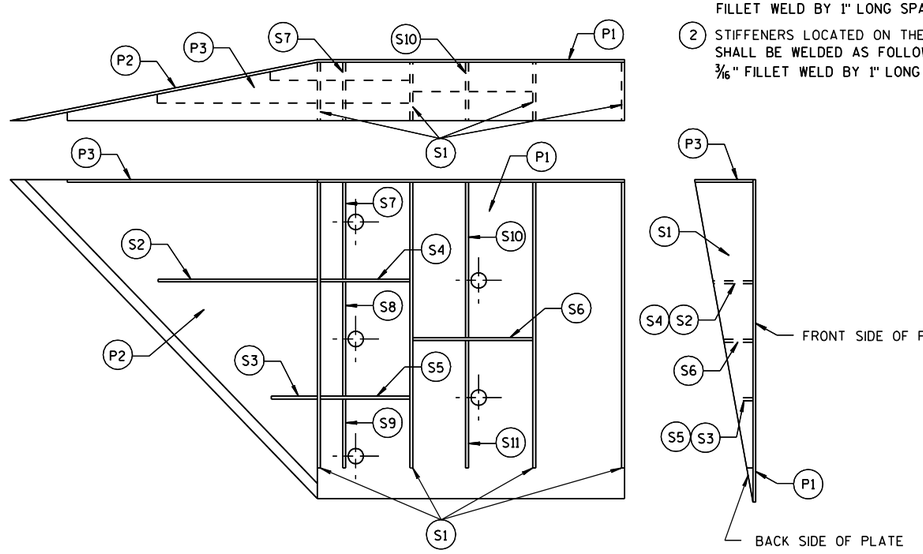


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

STEEL THRIE BEAM STRUCTURE APPROACH

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTOR PLATE DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/31/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6
S.D.D. 14 B 20-11g

BILL OF MATERIALS

NOTE NO.	DESCRIPTION
①	WOOD BREAKAWAY TERMINAL POST: 5½" X 7½" X 3'-9"
②	STEEL TUBE TS 8" X 6" X 0.188", 6'-0"
④	WOOD BREAKAWAY CRT POST: 6" X 8" X 6'-0"
⑤	WOOD OFFSET BLOCKS: 6' X 8" X 1'-2"
⑥	PIPE SLEEVE: 2" X 5 ½" STANDARD PIPE
⑦	BEARING PLATE
⑧	BCT CABLE ASSEMBLY
⑨	CABLE ANCHOR BOX
⑩	STRUT & YOKE
⑪	STEEL PLATE BEAM, END PANEL 12 GA.
⑫	STEEL PLATE BEAM: 12 GA. 13'-6½"
⑬	IMPACT HEAD
⑭	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS

GENERAL NOTES

FOLLOW MANUFACTURE'S BOLTING RECOMMENDATIONS.

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(D) THE TOP OF THE STEEL TUBE ON POSTS 1 AND 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

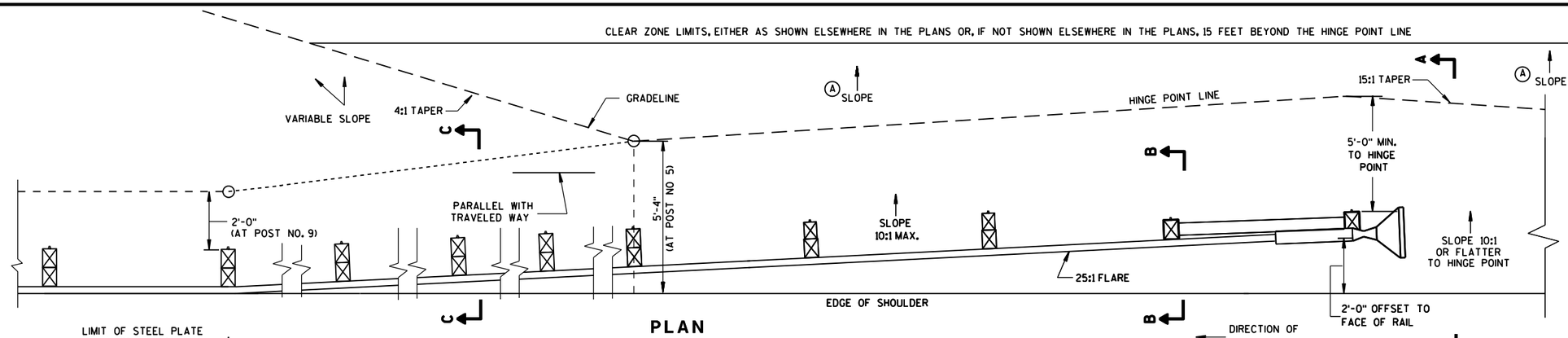
(E) THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST 3 THROUGH 8 SHALL BE ¾" ABOVE THE FINISHED GROUND LINE.

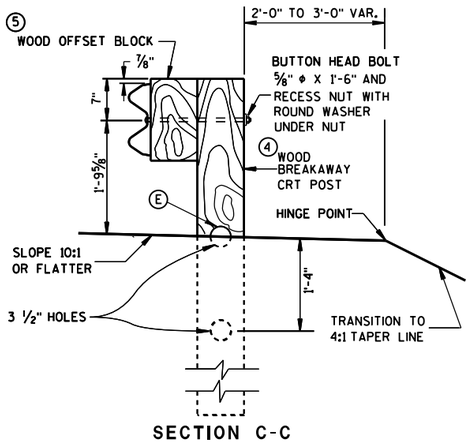
(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

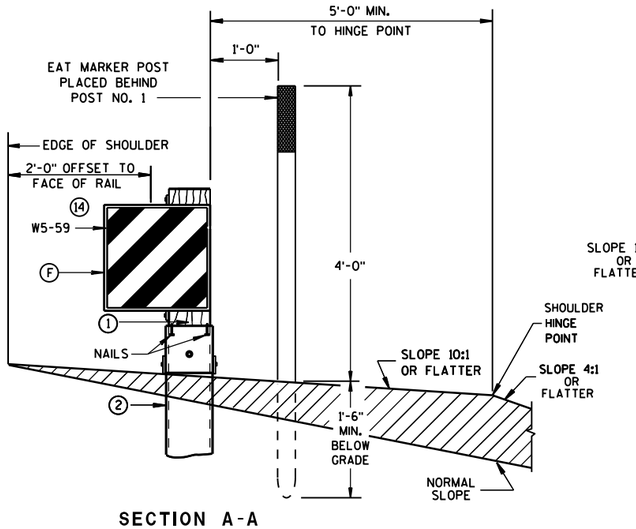
STEEL POSTS SHALL NOT BE ALLOWED FOR USE WITH ENERGY ABSORBING TERMINALS.

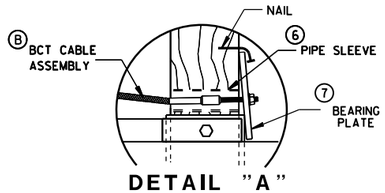
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

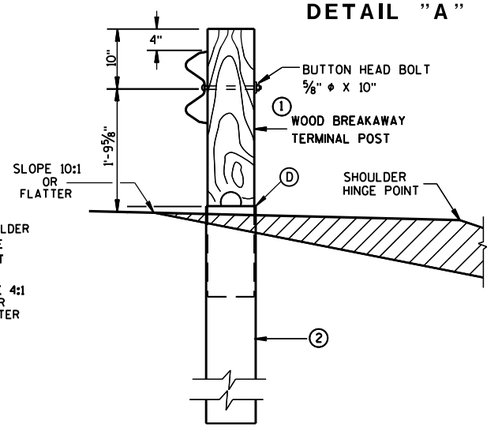
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

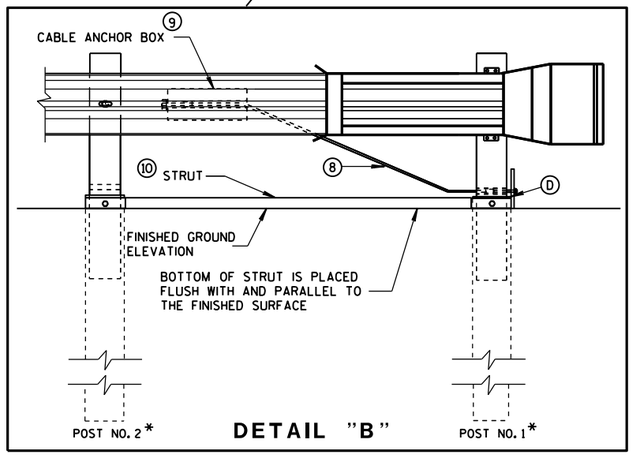










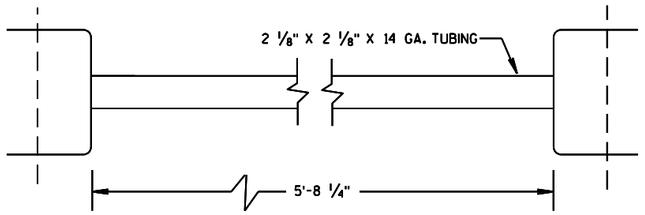


STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

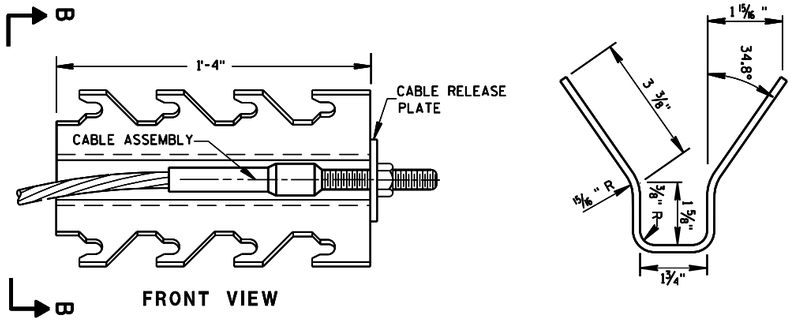
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

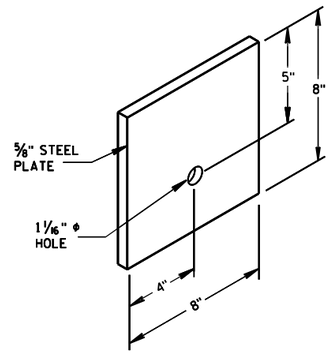
S.D.D. 14 B 24-9a



⑩ STRUT DETAIL



⑨ CABLE ANCHOR BOX



⑦ STEEL BEARING PLATE

6

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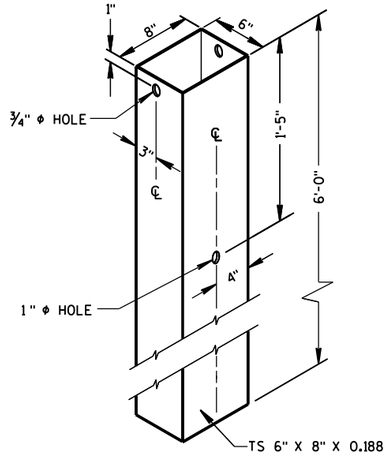
S.D.D. 14 B 24-9b

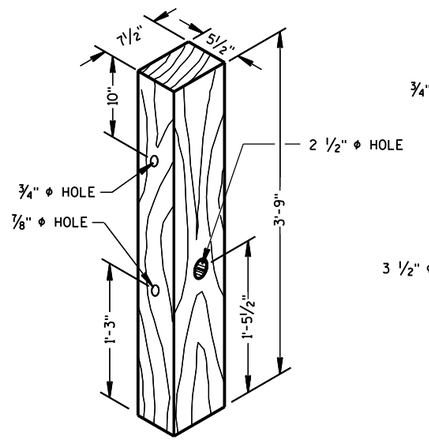
S.D.D. 14 B 24-9b

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

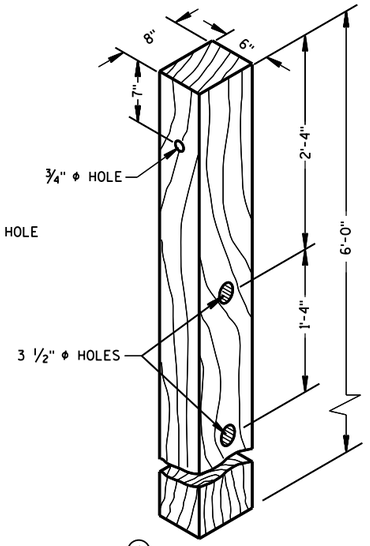
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI



② 72" STEEL TUBE
(POSTS NO. 1-4



① TERMINAL POST

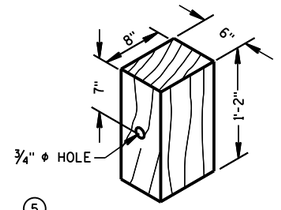


④ CRT POST
(POSTS NO'S 5-8)

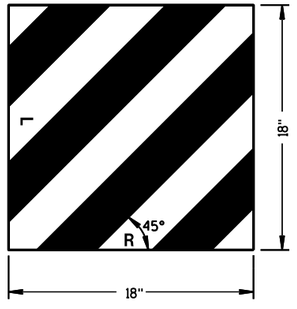
WOOD BREAKAWAY POSTS

GENERAL NOTES

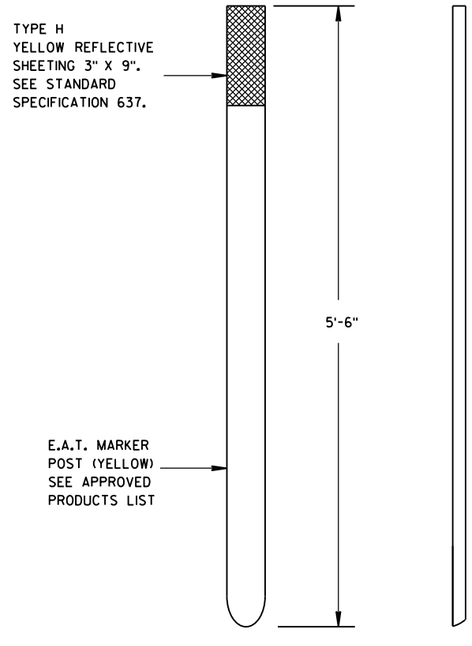
WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 ½" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.



⑤ WOOD OFFSET BLOCK
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



⑭ REFLECTIVE SHEETING DETAILS



E.A.T. MARKER POST

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
FHWA

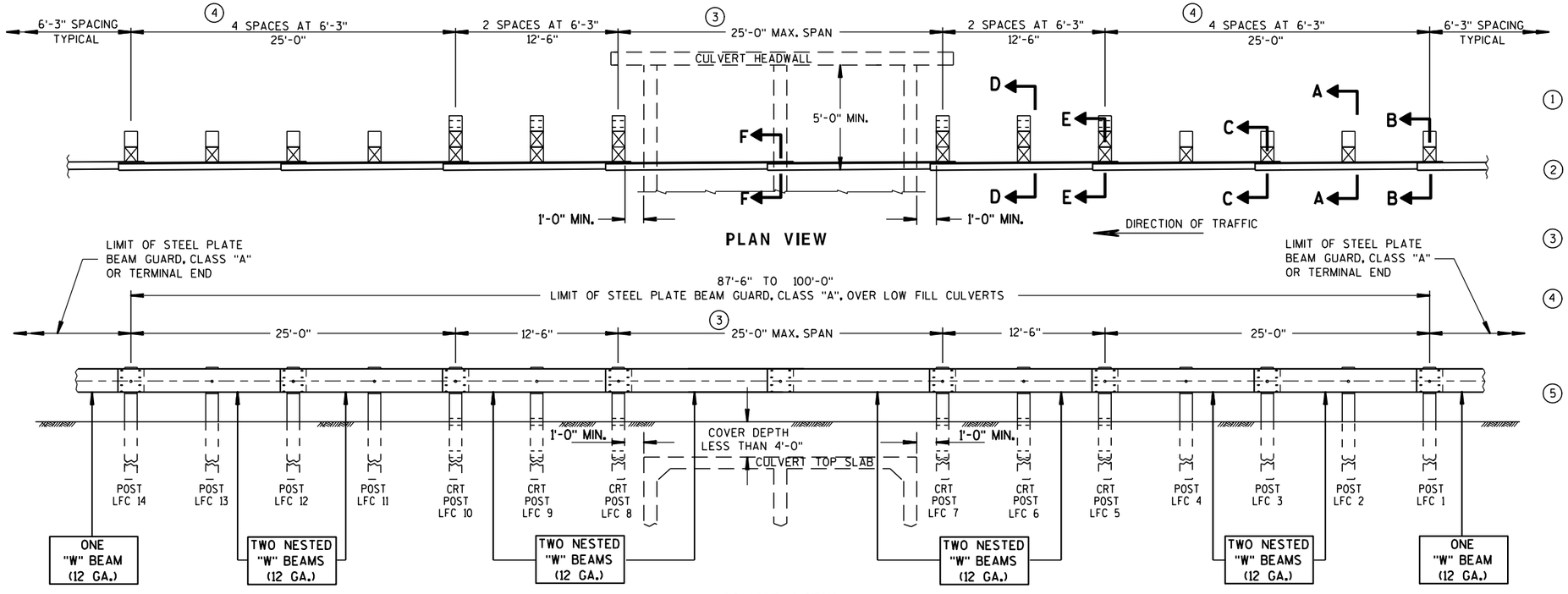
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERV.
ENT

6

S.D.D. 14 B 24-9c

6

S.D.D. 14 B 24-9c



PLAN VIEW

FRONT VIEW

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD OVER LOW FILL CULVERTS

GENERAL NOTES

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

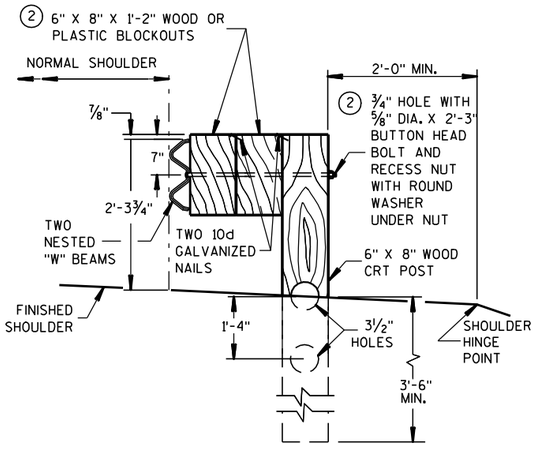
(1) MAINTAIN THE NESTING OF EACH NESTED PAIR OF "W" BEAM SECTIONS THROUGH SPLICES. ORIENTATE NESTED "W" BEAM SPLICES IN THE DIRECTION OF TRAFFIC AS THE PLAN VIEW SHOWS. SEE S.D.D. 14 B 15 FOR SPLICE INSTALLATION.

(2) THE CONTRACTOR MAY USE APPROVED PLASTIC BLOCKOUTS IN LIEU OF WOOD BLOCKOUTS. SEE S.D.D. 14 B 15 FOR TYPICAL BLOCKOUT, SPLICE AND REFLECTOR INSTALLATIONS. USE BOLT SIZES AND LENGTHS AS SHOWN ON THIS DETAIL.

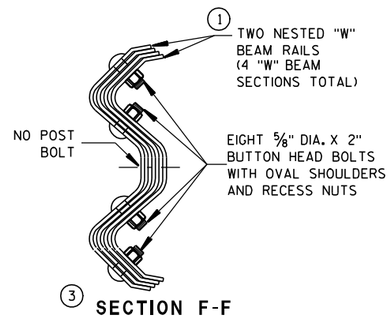
(3) PROVIDE 12'-6", 18'-9" AND 25'-0" SPANS ONLY. USE A MAXIMUM OF ONE SPLICE LOCATED ANYWHERE WITHIN THE SPAN SECTION. LOCATE ALL OTHER SPLICES AT BEAM GUARD POSTS.

(4) IN THE FIRST AND LAST 25 FOOT SECTIONS (POSTS LFC 1-4 & LFC 11-14), THE CONTRACTOR MAY USE W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS OR 6" X 8" WOOD POSTS WITH EITHER WOOD OR PLASTIC BLOCKOUTS. DO NOT MIX STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS AND WOOD POSTS WITH EITHER WOOD OR PLASTIC BLOCKOUTS IN THE SAME INSTALLATION.

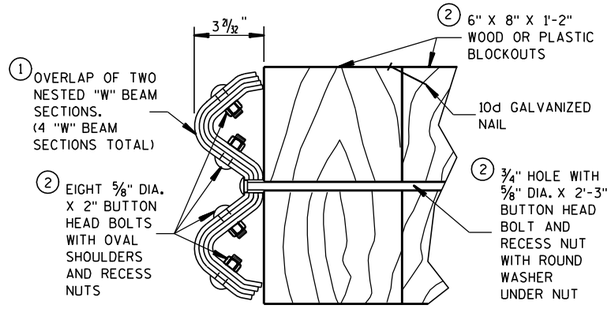
(5) WHERE EXISTING CONDITIONS DO NOT PERMIT THE APPROPRIATE EARTHWORK, THE PLAN TYPICAL SECTIONS OR DETAILS MAY SHOW, OR THE ENGINEER MAY ALLOW, THE REDUCTION OR ELIMINATION OF THE 2 FOOT DISTANCE TO THE HINGE POINT. BUILD AS THE PLAN SHOWS OR ENGINEER DIRECTS. IF THE 2 FOOT DISTANCE TO THE HINGE POINT IS REDUCED OR ELIMINATED, INCREASE THE POST SOIL DEPTH TO 4'-6" OR MORE.



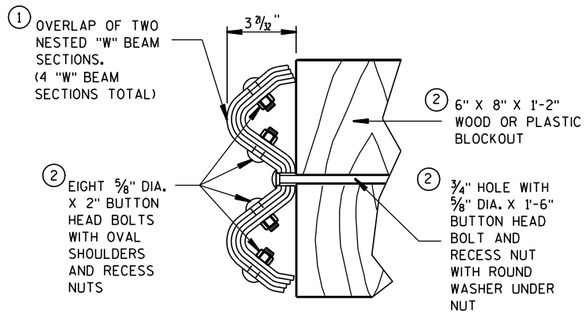
SECTION D-D
TYPICAL CRT POST LFC 6 AND 9



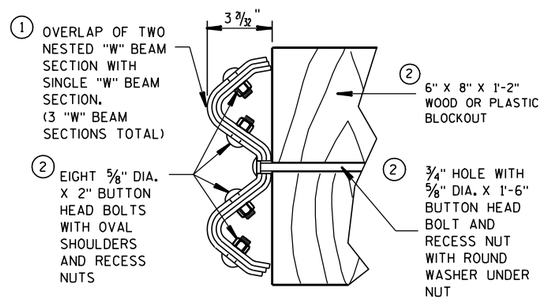
(3) SECTION F-F
BEAM SPLICE IN SPAN OVER CULVERT



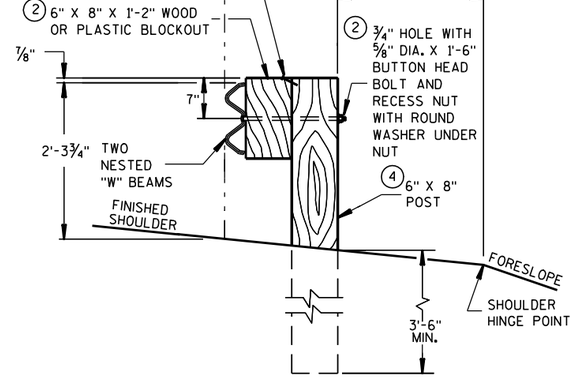
SECTION E-E
TYPICAL CRT POST LFC 5, 7, 8 AND 10



SECTION C-C
TYPICAL AT POSTS LFC 3 AND 12



SECTION B-B
TYPICAL AT POSTS LFC 1 AND 14



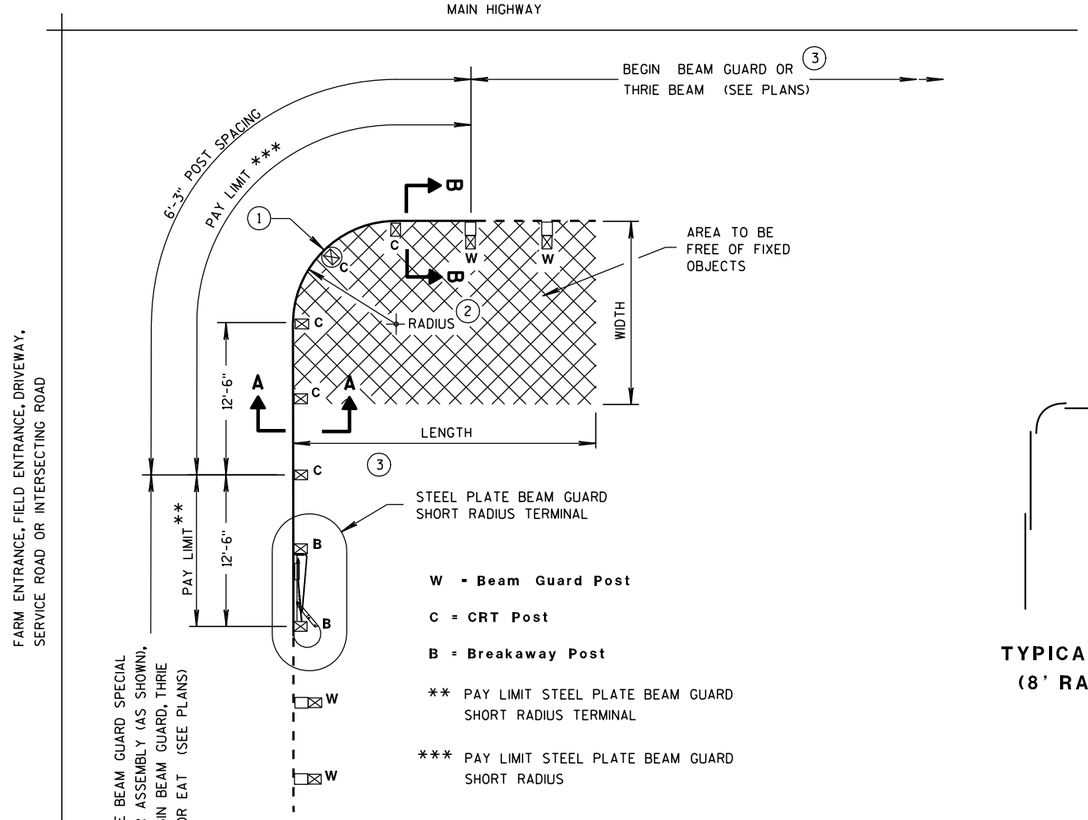
SECTION A-A
TYPICAL AT POST LFC 2,4,11,13

STEEL PLATE BEAM GUARD, CLASS "A", OVER LOW FILL CULVERTS

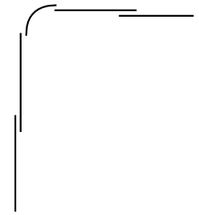
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/8/00 DATE
/S/ John Have... CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 14 B 25-1



TYPICAL LAYOUT
(8' RADIUS SHOWN)



TYPICAL LAP SPLICES
(8' RADIUS SHOWN)

GENERAL NOTES

ALL ANGLES, CHANNELS, AND PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36 AND THE STRUCTURAL TUBING SHALL CONFORM TO ASTM A 500. WELDING SHALL MEET THE CURRENT REQUIREMENTS OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE ANSI/AWS D1.1. ALL STRUCTURAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 123. PUNCHING, DRILLING, CUTTING, OR WELDING WILL NOT BE PERMITTED AFTER GALVANIZING. FURNISH AND INSTALL HARDWARE PER STANDARD SPECIFICATION 614.2. UNLESS NOTED OTHERWISE.

SHOP BEND CURVED RAIL SECTIONS.

SEE STANDARD DETAIL DRAWING 14 B 15 FOR OTHER DETAIL.

(1) ON THE 8 FOOT RADIUS INSTALLATION, DO NOT INSTALL BUTTON HEAD BOLT AT CENTER CRT POST.

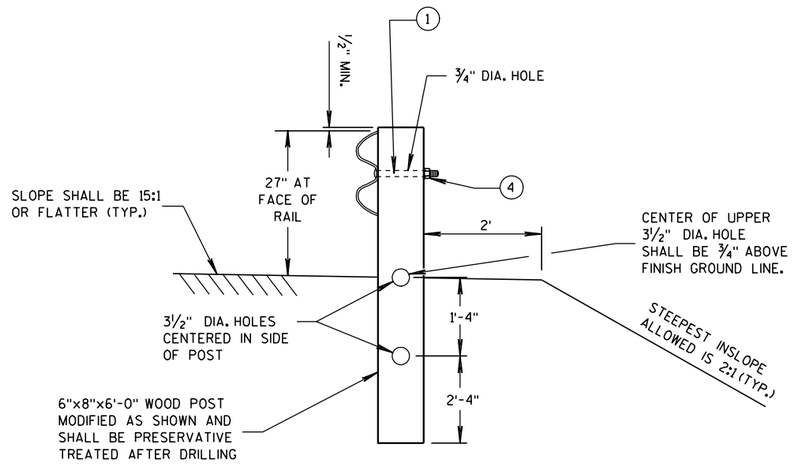
(2) RADIUS FROM 8' - 36'. SEE PLAN.

(3) HEIGHT TRANSITION MAY BE REQUIRED. SEE PLAN OR PROJECT ENGINEER.

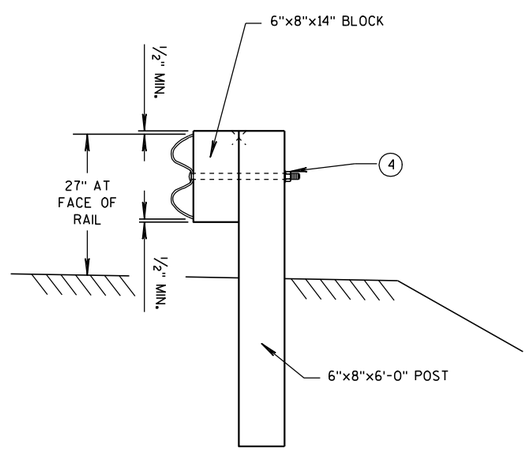
(4) 5/8" ø X 1'-6" BUTTON HEAD BOLT AND RECESS NUT WITH ROUND WASHER UNDER NUT.

RADIUS	NUMBER OF CRT POSTS	*NUMBER AND LENGTH OF CURVED RAILS	REQUIRED AREA FREE OF FIXED OBJECTS (LENGTH x WIDTH)
8'	5	1 at 12.5'	25' x 15'
16'	7	1 at 25'	30' x 15'
24'	9	1 at 25' and 1 at 12.5'	40' x 20'
32'	11	2 at 25'	50' x 20'

* THE NUMBER OF RAILS IS BASED ON A 90° INTERSECTION. SEE PLAN FOR NON 90° INSTALLATIONS.



SECTION A-A
(CRT POST)



SECTION B-B
(BEAM GUARD POST)

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	225

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S.D.D. 14 B 27-1a

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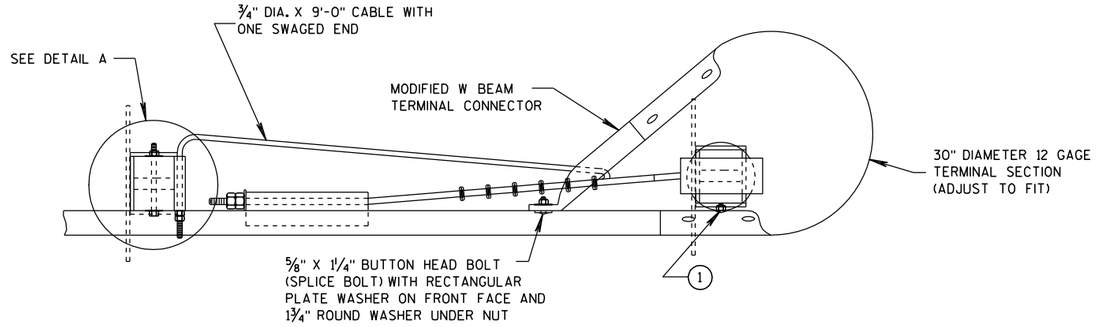
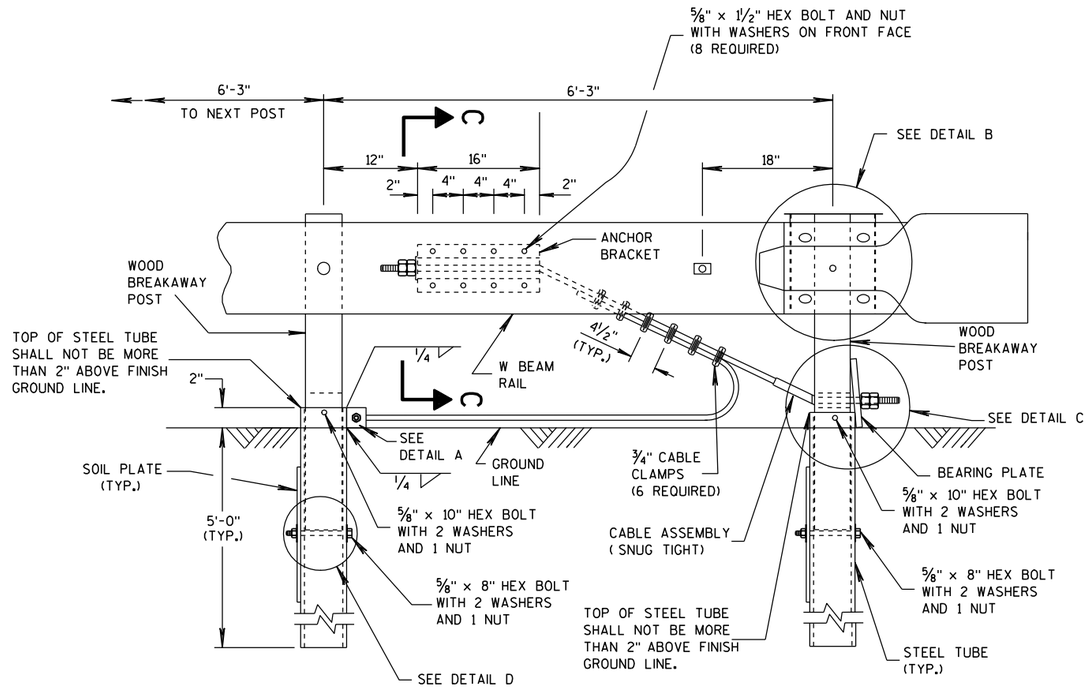
S.D.D. 14 B 27-1a



PLAN VIEW



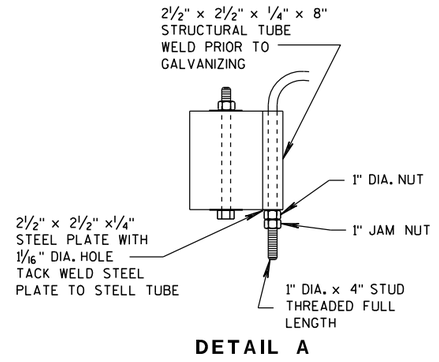
ELEVATION VIEW

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

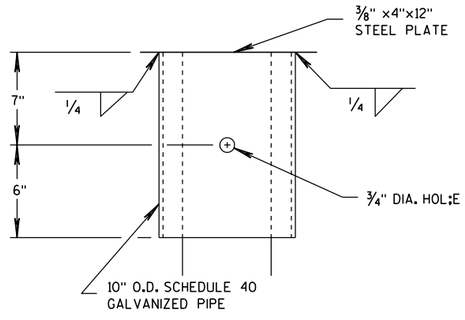
GENERAL NOTES

(1) ATTACH W BEAM RAIL TO THE STEEL PIPE WITH A ⅝" X 2" BUTTON HEAD BOLT WITH NO WASHER. CONNECTION TO THE POST IS NOT REQUIRED.

INSTALL GALVANIZED ¾" (6X19) PREFORMED WIRE OR INDEPENDENT WIRE ROPE CORE CONFORMING TO AASHTO M 30. MANUFACTURE WIRE ROPE OUT OF IMPROVED PLOW STEEL WITH A MINIMUM BREAKING STRENGTH OF 42,800 PSI.



DETAIL A



DETAIL B

(BEAM GUARD AND TERMINAL SECTION NOT SHOWN)

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

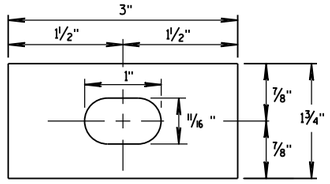
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

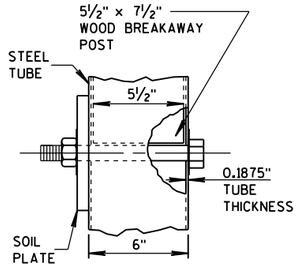
S.D.D. 14 B 27-1b

6

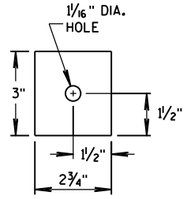
S.D.D. 14 B 27-1b



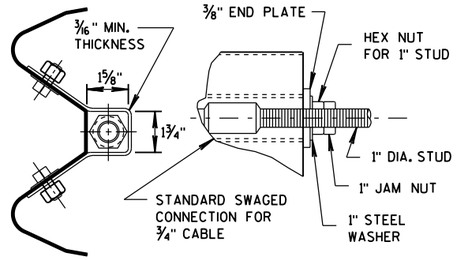
RECTANGULAR PLATE WASHER



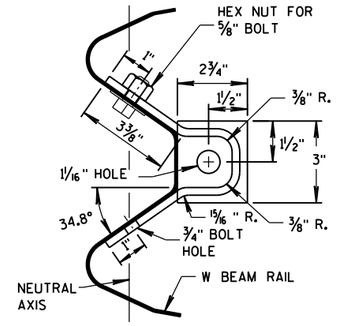
DETAIL D



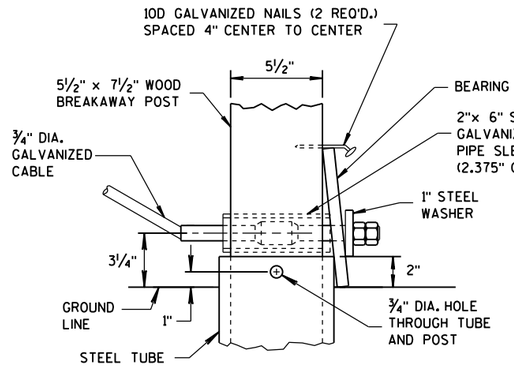
END PLATE



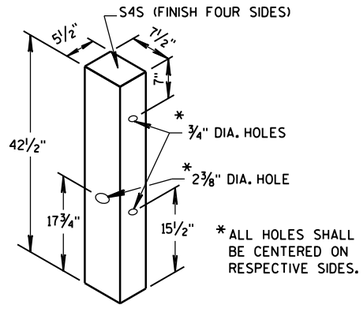
SECTION C-C
(END PLATE REMOVED)



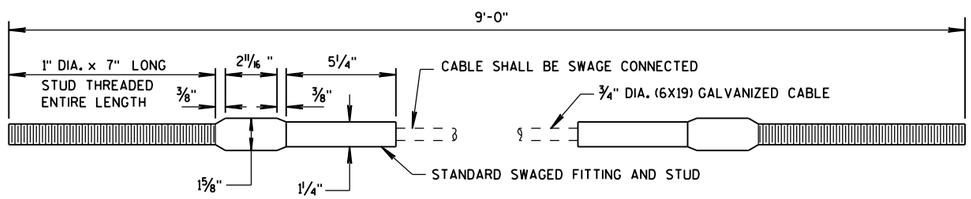
ANCHOR BRACKET



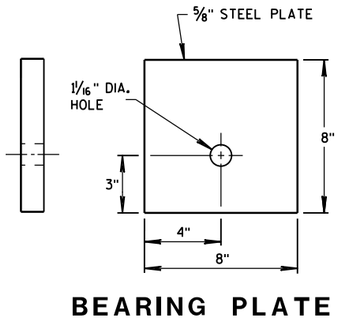
DETAIL C



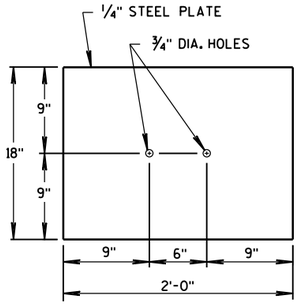
WOOD BREAKAWAY POST



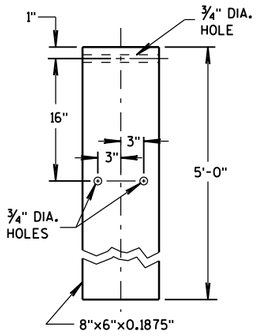
CABLE ASSEMBLY



BEARING PLATE



SOIL PLATE



STEEL TUBE

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/18/08 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 14 B 27-1c

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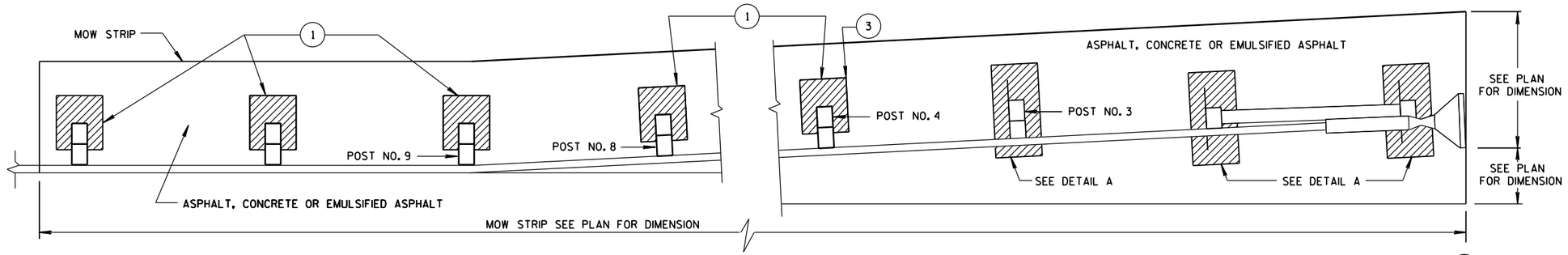
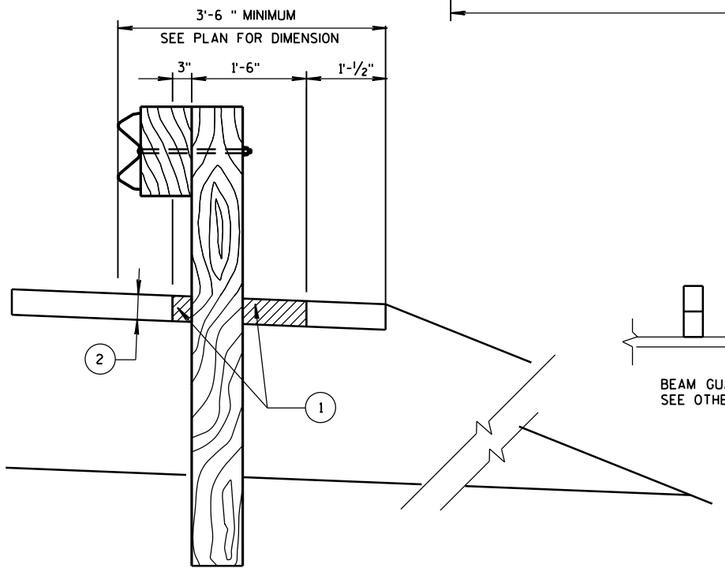
S.D.D. 14 B 27-1c

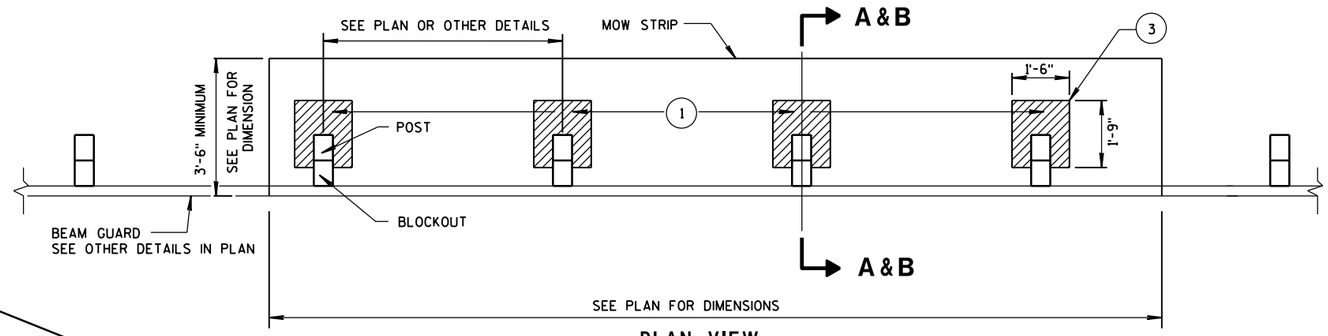


PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABORBING TERMINAL

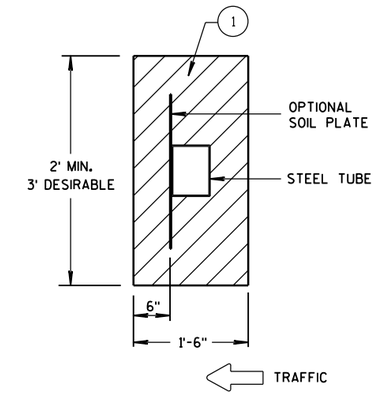


SECTION A-A

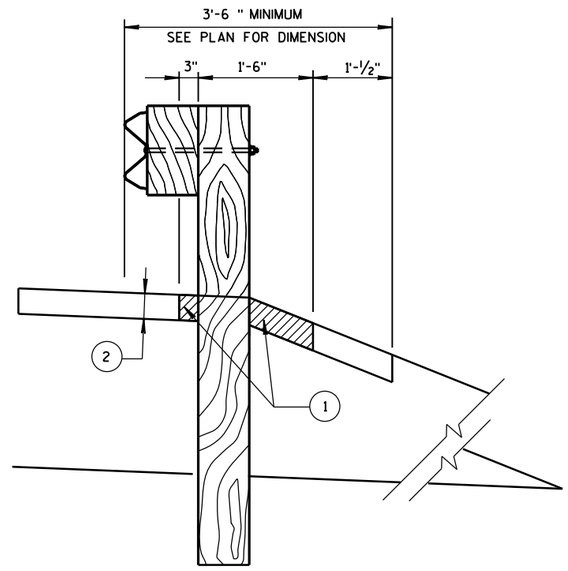


PLAN VIEW

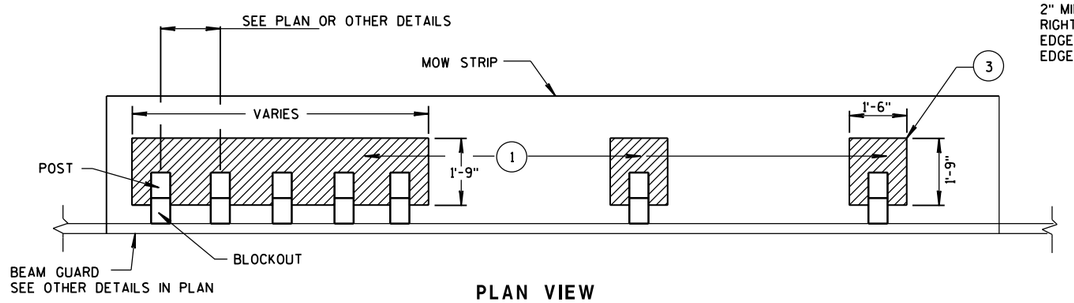
MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT



DETAIL A

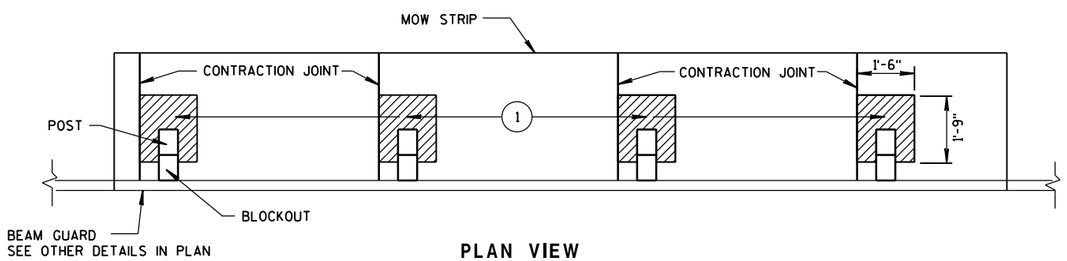


SECTION B-B



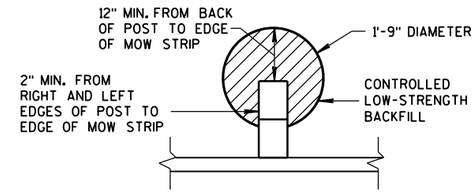
PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP



ALTERNATIVE HMA
MOW STRIP DESIGN

(1) CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.

(2) DEPTH OF MOW STRIP:
ASPHALT - 4"
CONCRETE - 4"
EMULSIFIED ASPHALT - 1" OR LESS

(3) FOR EMULSIFIED ASPHALT MOW STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS.)

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
228
NT
FHWA

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S.D.D. 14 B 28-3

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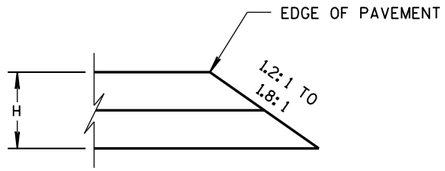
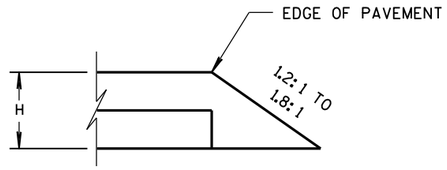
S.D.D. 14 B 28-3



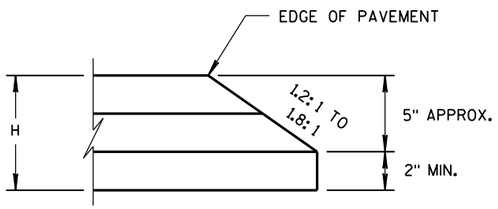
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



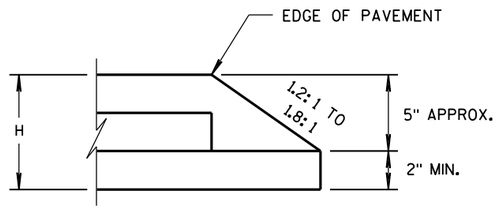
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

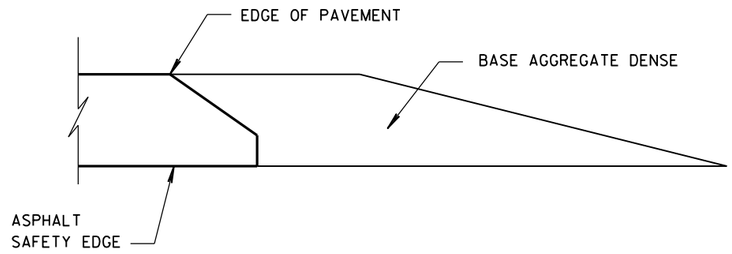
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

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S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

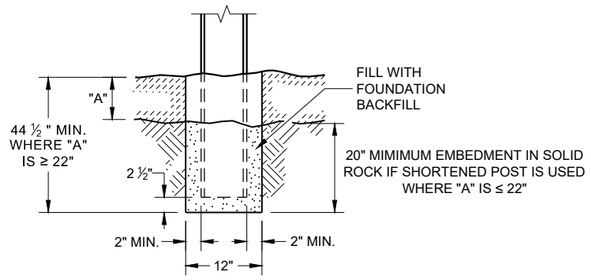
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

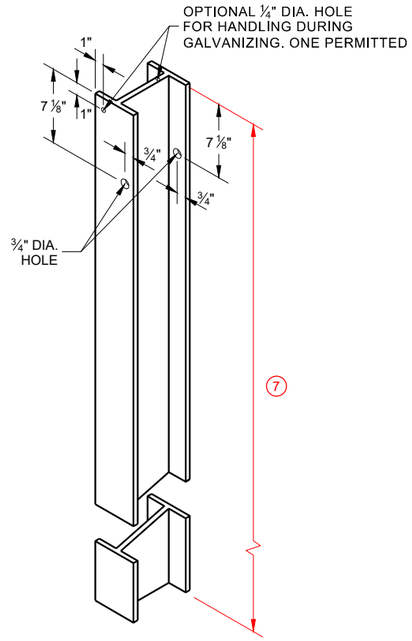
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

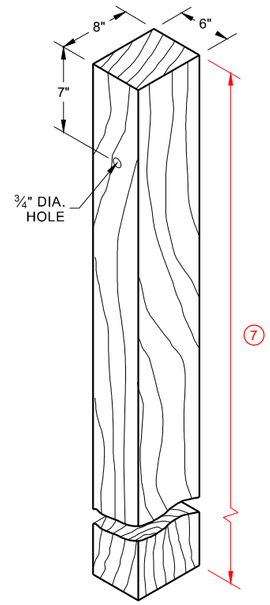
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



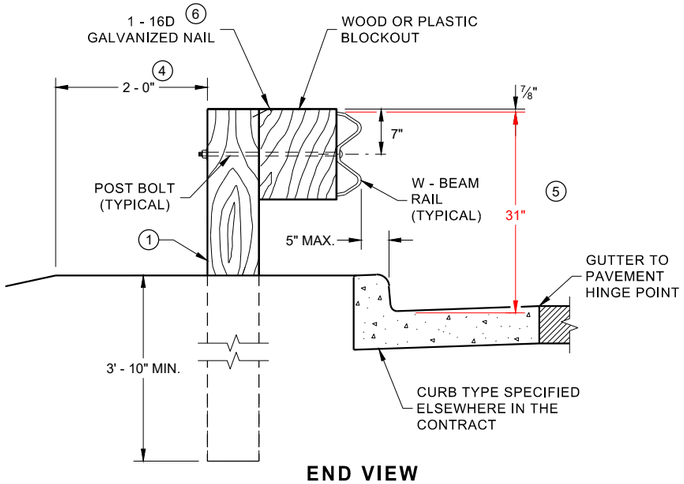
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



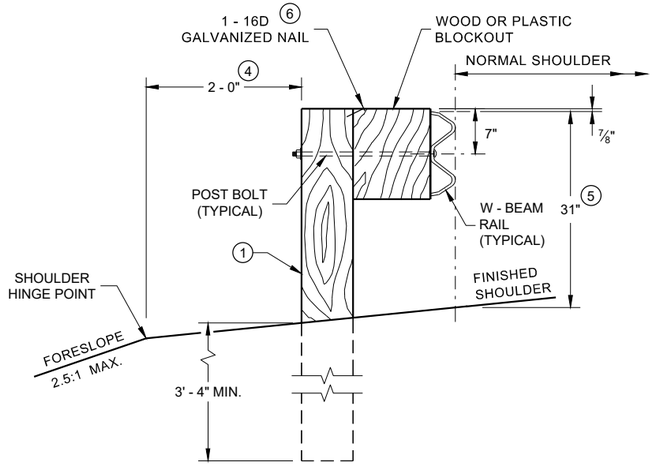
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



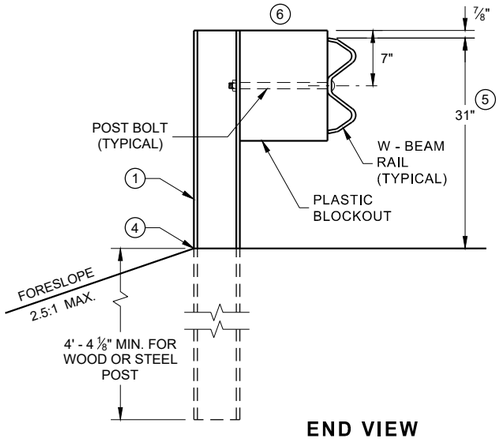
WOOD POST (6" X 8") NOMINAL (1)



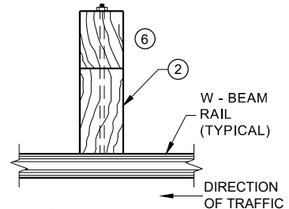
END VIEW
LOCATED ALONG A CURBED ROADWAY



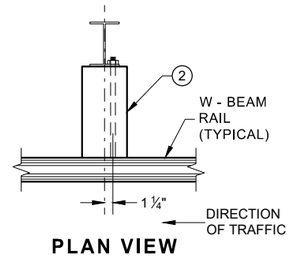
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



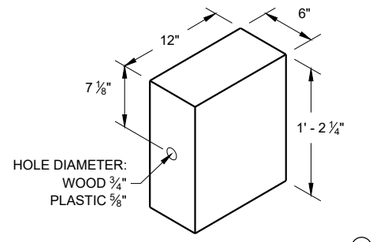
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



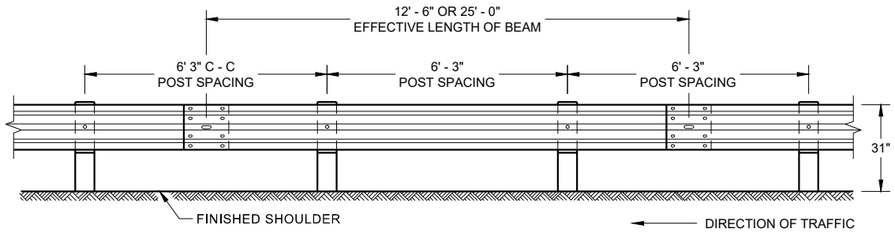
WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

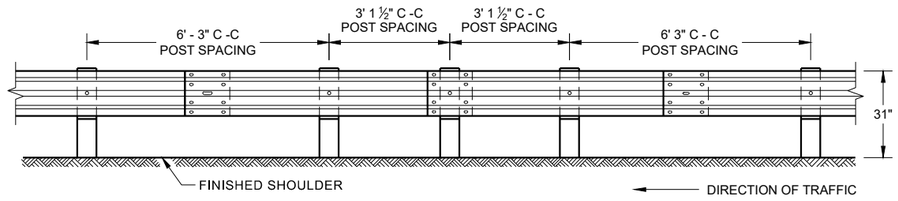
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B42 - 06a

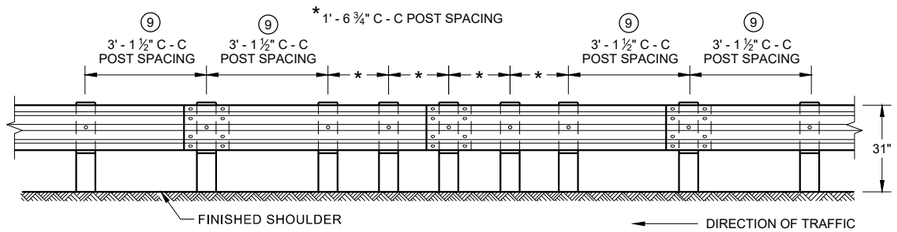
SDD 14B42 - 06a



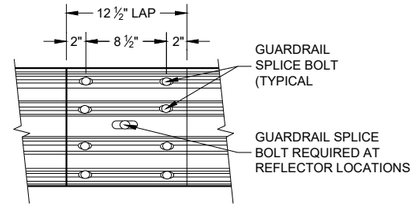
FRONT VIEW
POST SPACING STANDARD INSTALLATION



FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



FRONT VIEW
QUARTER POST SPACING (QS)



FRONT VIEW
MID-SPAN BEAM SPLICE

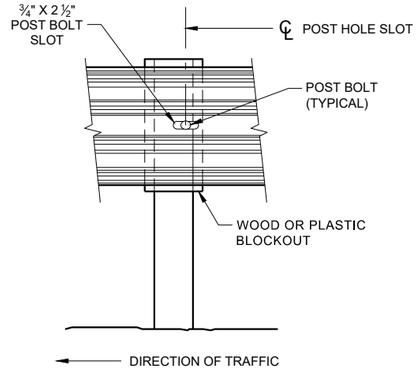
GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

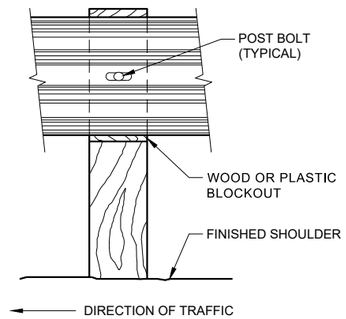
⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ¾" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

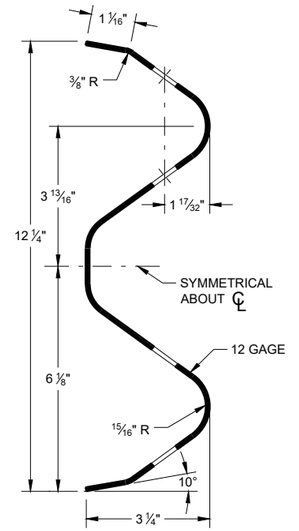
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



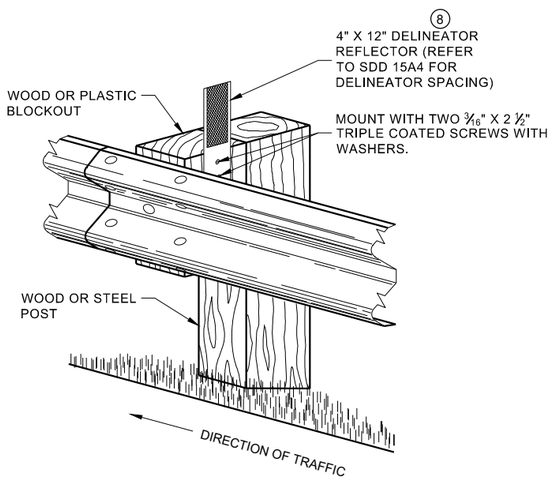
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



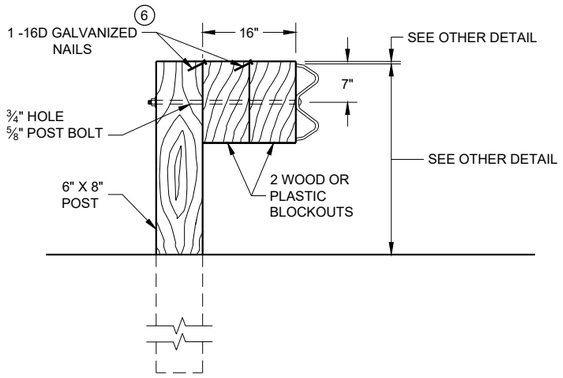
ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B42 - 06b

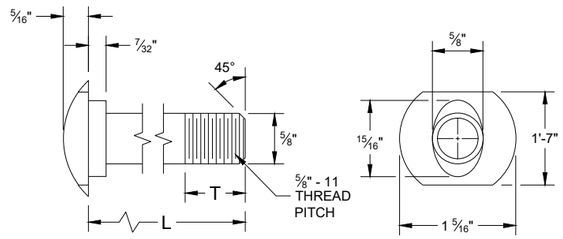


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

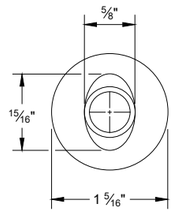
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

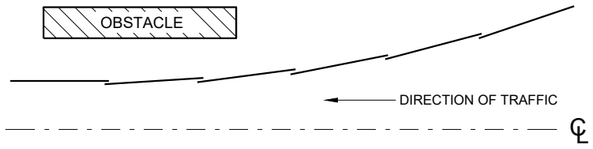


POST BOLT TABLE

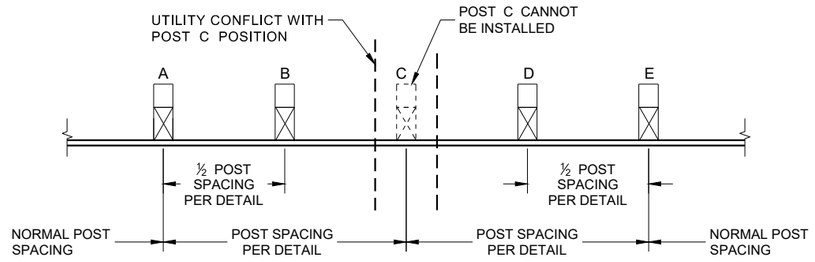
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



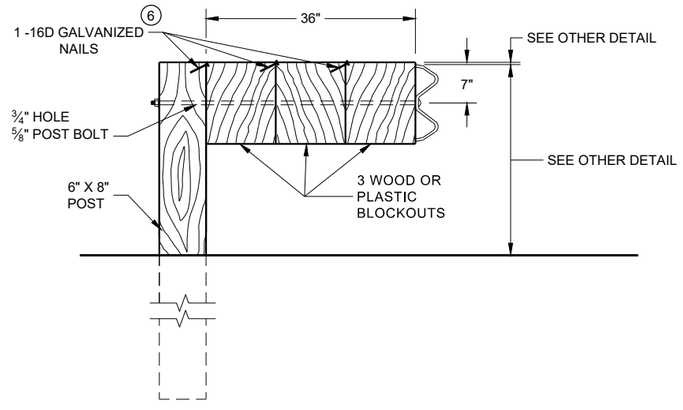
ALTERNATE BOLT HEAD



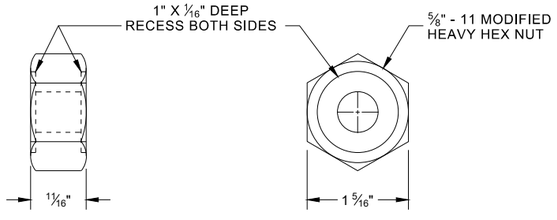
PLAN VIEW
BEAM LAPPING DETAIL



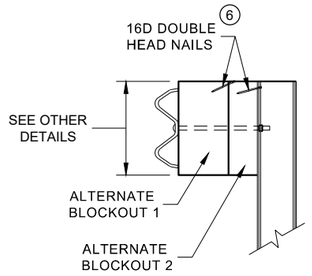
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



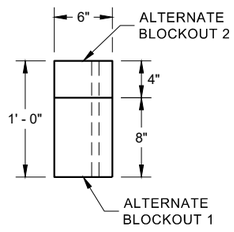
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



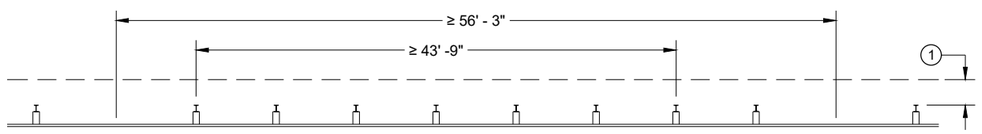
PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

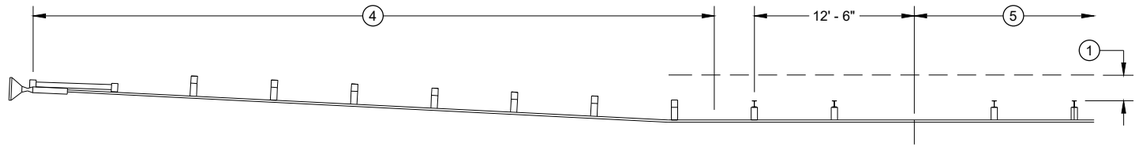
NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

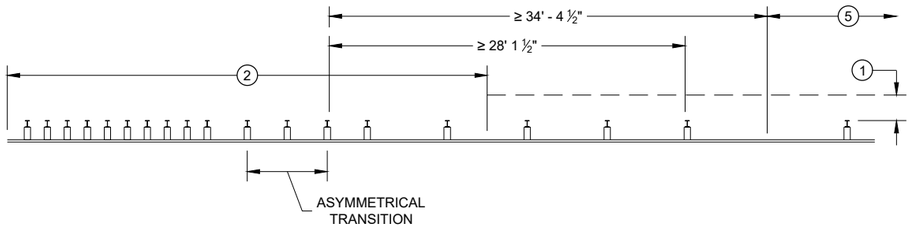
(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



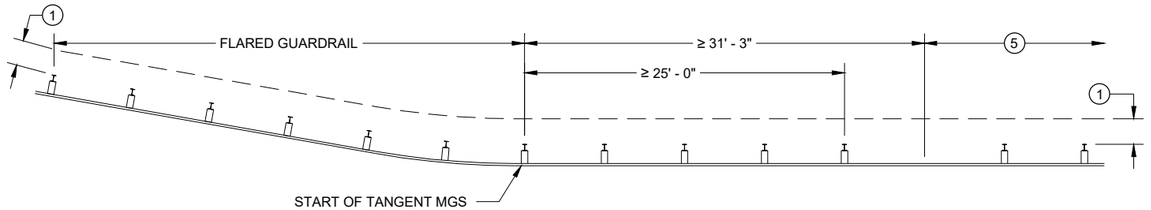
MISSING POST IN NORMAL BEAM GUARD RUN



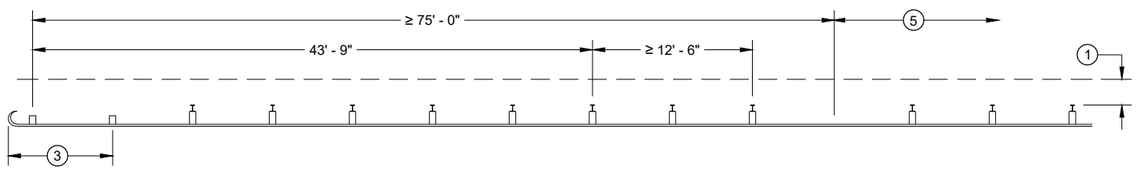
MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



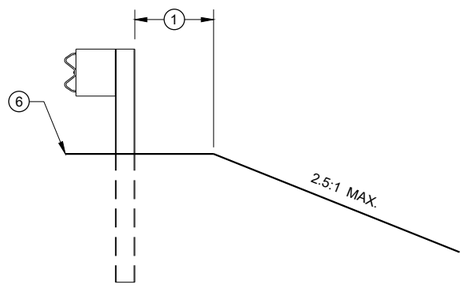
MISSING POST NEAR APPROACH THRIE BEAM TRANSITION



MISSING POST IN NORMAL BEAM GUARD RUN NEAR FLARED BEAM GUARD



MISSING POST IN NORMAL BEAM GUARD RUN NEAR TYPE 2 TERMINAL



CROSS SECTION VIEW

1. MINIMUM OF 2 FEET OF GRADING BEHIND POST.
2. SEE SDD 14B45 FOR MORE DETAILS.
3. SEE SDD 14B47 FOR MORE DETAILS.
4. SEE SDD 14B44 FOR MORE DETAILS.
5. SEE MISSING POST IN NORMAL BEAM GUARD RUN FOR DISTANCE TO NEXT MISSING POST AND AREA FOR WELL DRAINED, COMPACTED SOILS.
6. SEE PLAN FOR SHOULDER DESIGN.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR
FHWA

6

SDD 14B42 - 06d

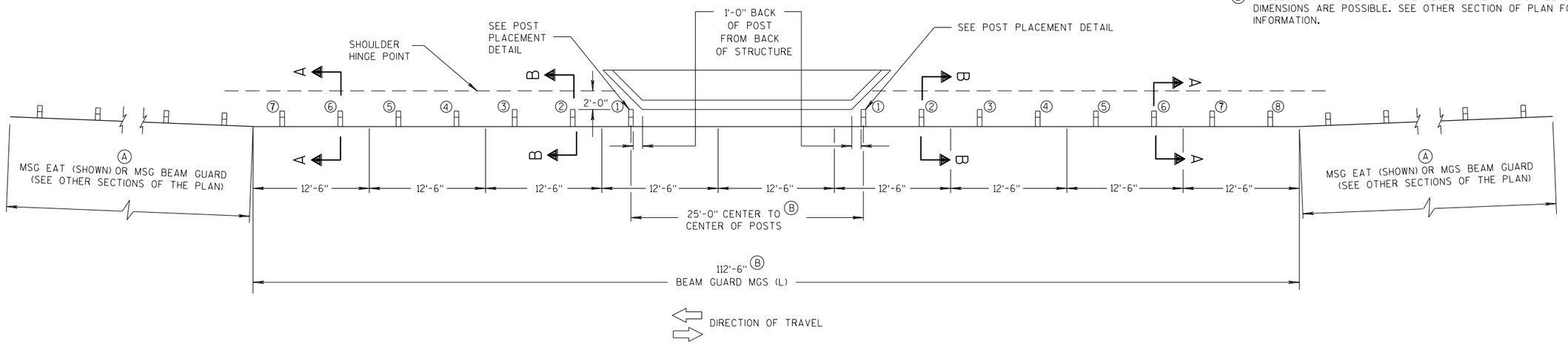
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

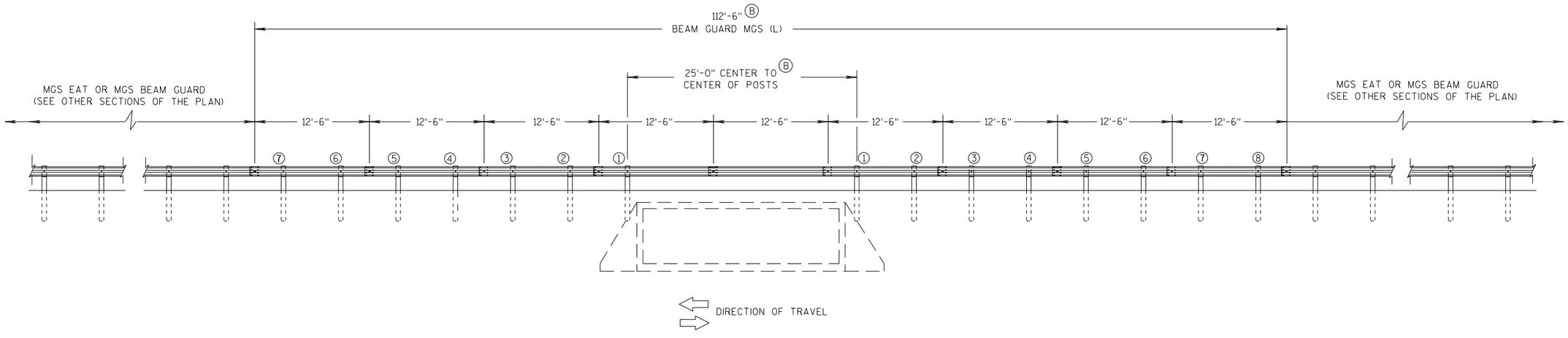
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) TWO-WAY TRAFFIC

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 43-4a

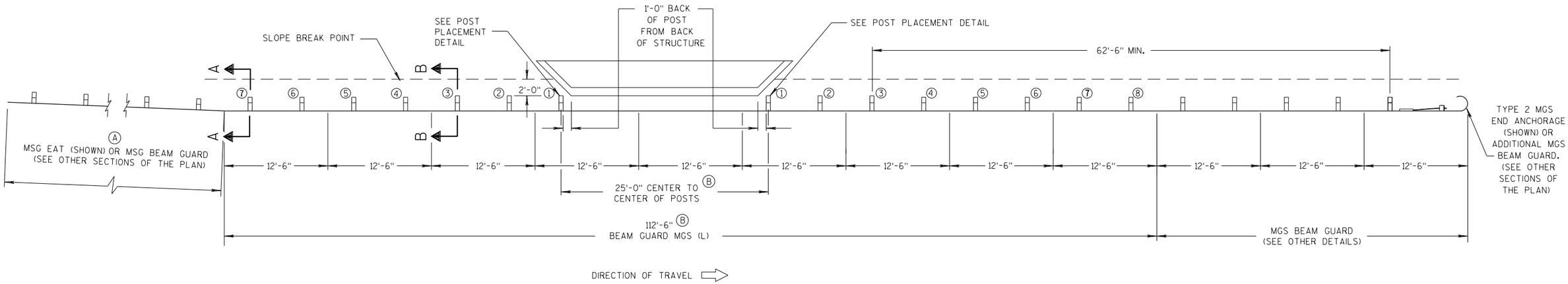
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

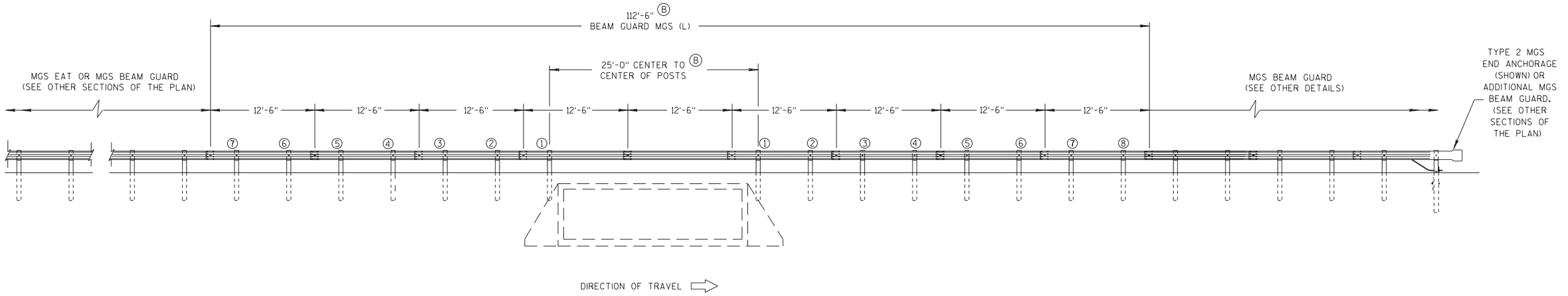
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



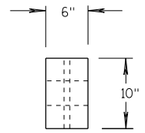
ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) ONE-WAY TRAFFIC

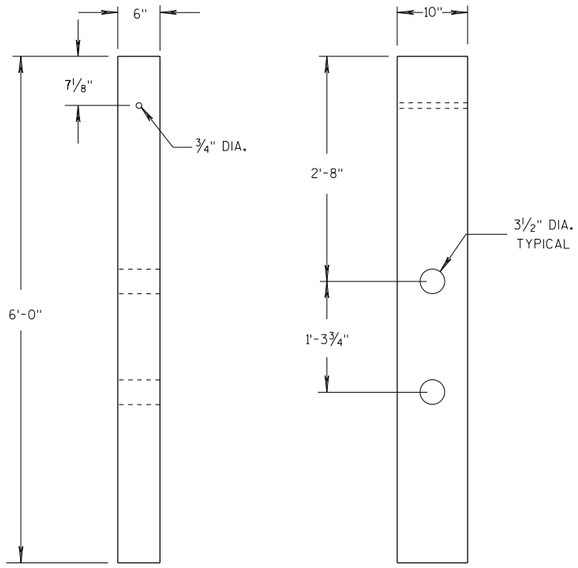
MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	235

6

S.D.D. 14 B 43-4b

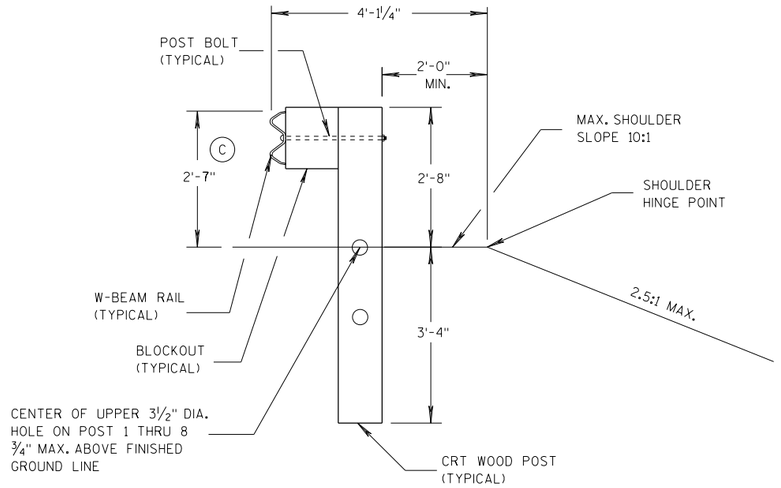


PLAN VIEW



FRONT VIEW SIDE VIEW

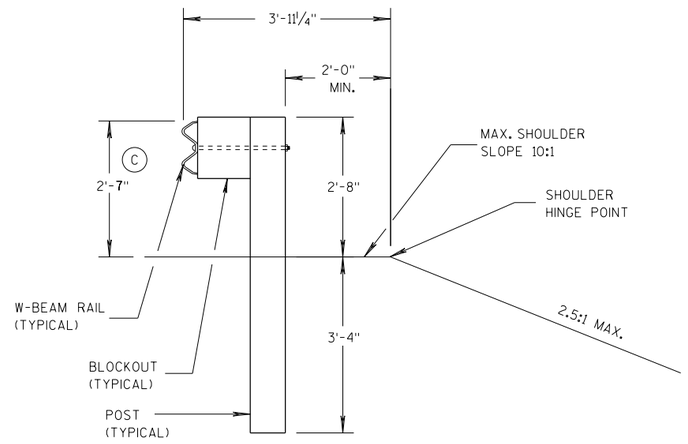
CRT WOOD POST



SECTION B-B

POSTS NO. 1-3

SEE OTHER DETAILS



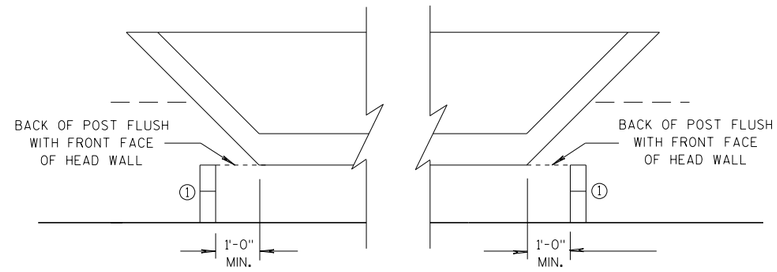
SECTION A-A

POSTS NO. 4-8

SEE OTHER DETAILS

GENERAL NOTES

(C) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



POST PLACEMENT DETAIL

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS ENGINEER

D 236 NT

FHWA

6

S.D.D. 14 B 43-4c

6

S.D.D. 14 B 43-4c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

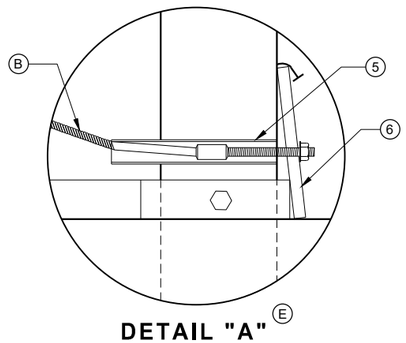
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

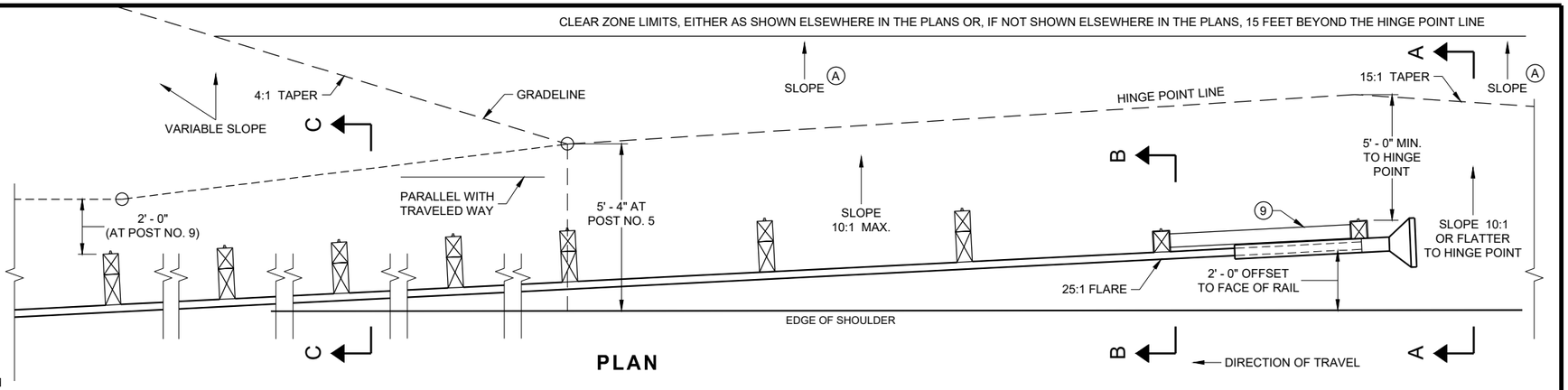
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

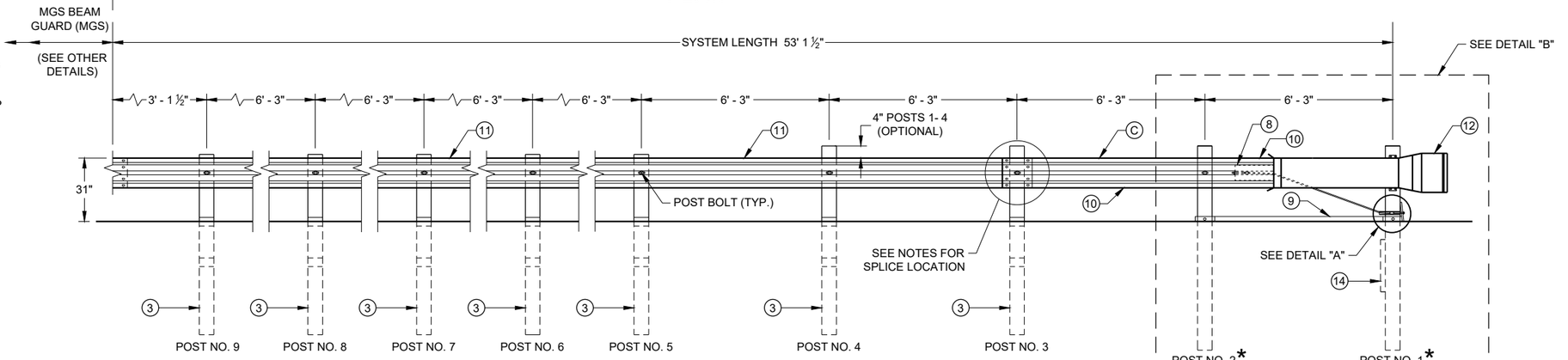
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



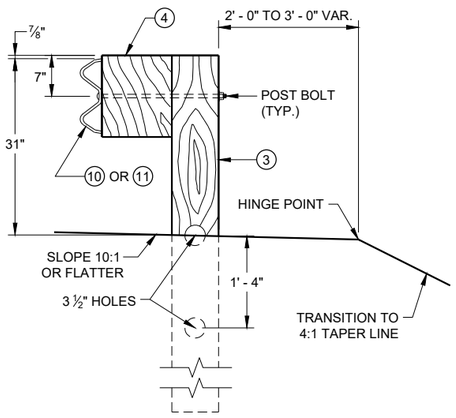
DETAIL "A" (E)



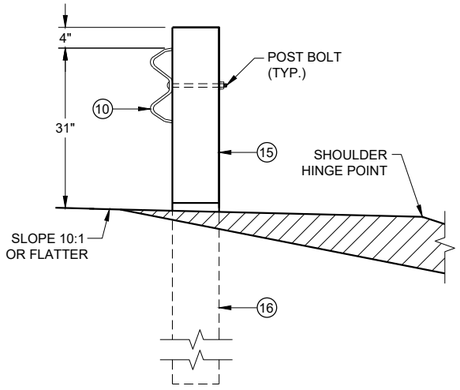
PLAN



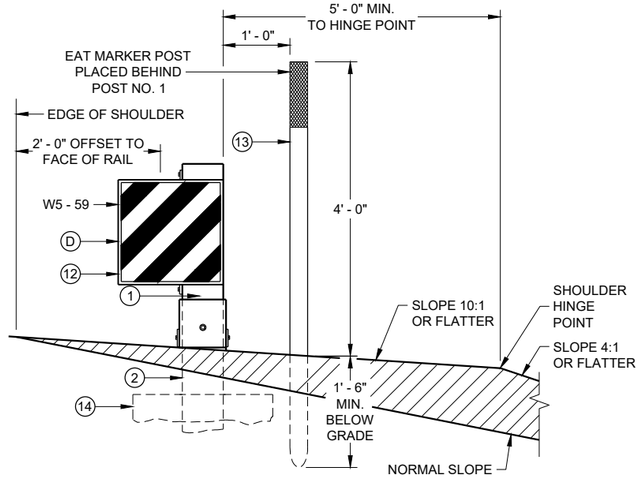
ELEVATION



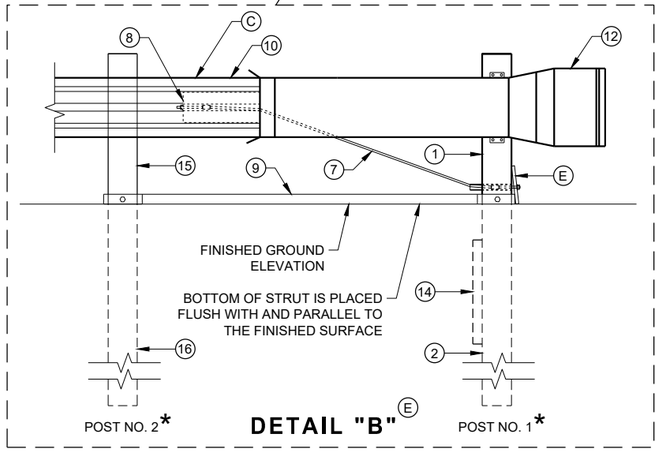
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

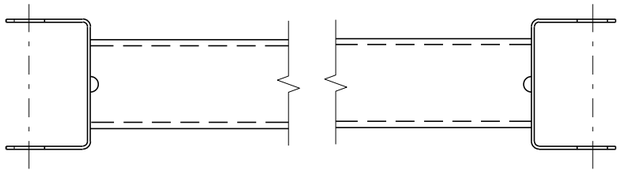
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

SDD 14B44 - 04a

6

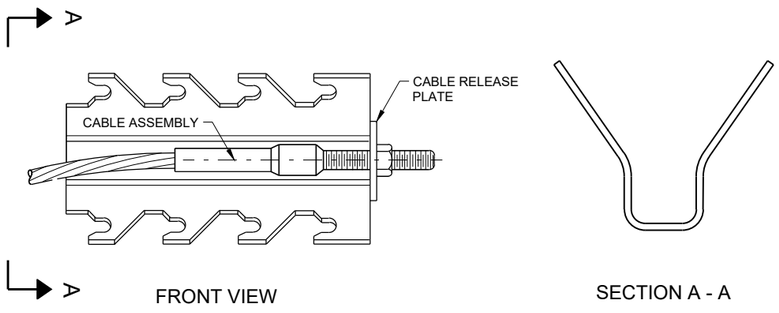
6



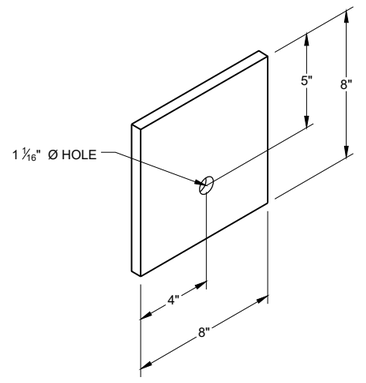
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
①	UPPER POST NO. 1 6" X 6" TUBE
②	LOWER POST NO. 1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	IMPACT HEAD
⑬	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
⑭	SOIL PLATE
⑮	UPPER POST NO. 2
⑯	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX ⑨ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

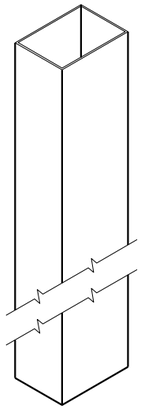
6

SDD 14B44 - 04b

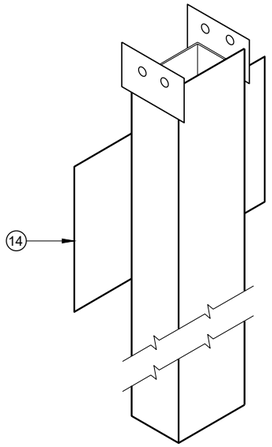
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

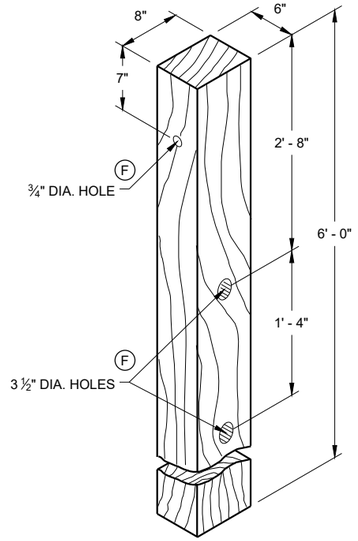
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



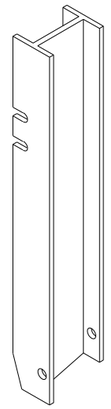
UPPER POST NO. 1 (1) (E)



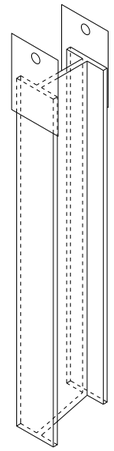
LOWER POST NO. 1 (2) (E)



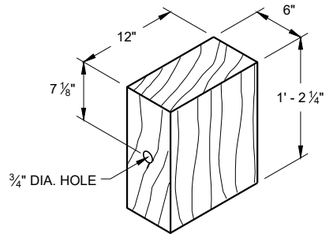
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



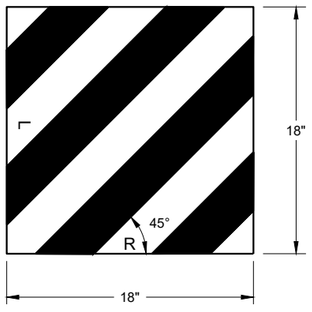
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

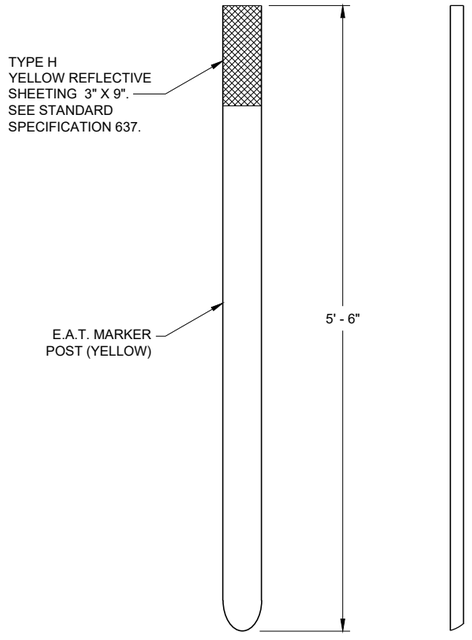


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



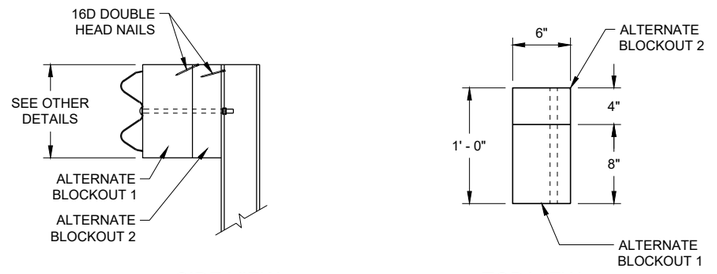
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR
FHWA

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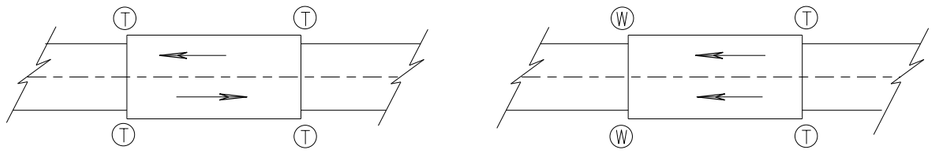
SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

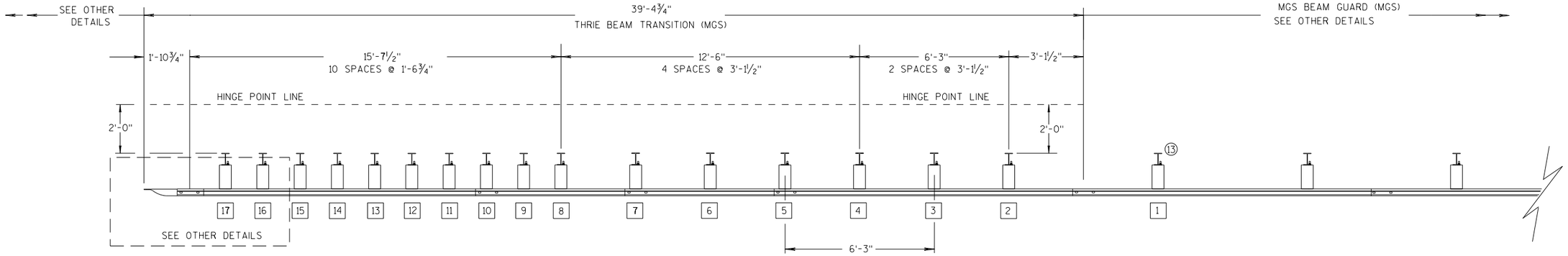
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

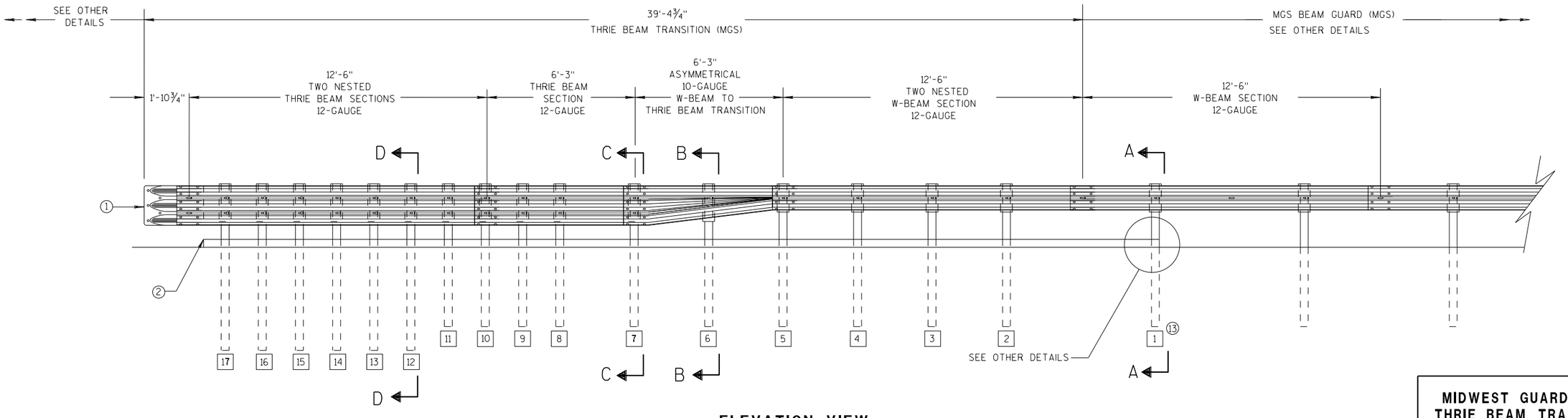
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 240

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S.D.D. 14 B 45-5a

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S.D.D. 14 B 45-5a

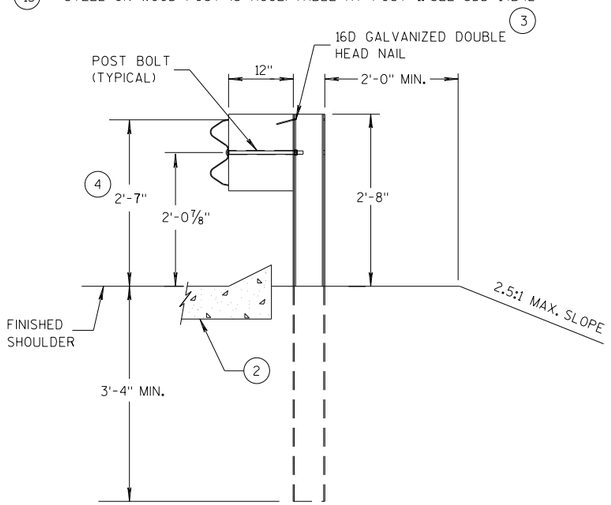
GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

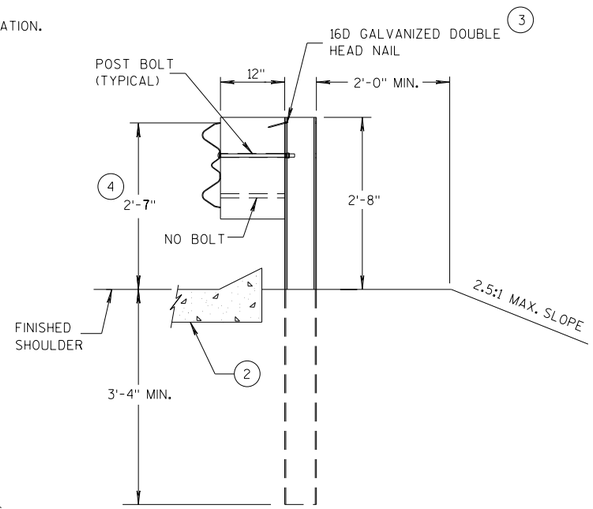
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



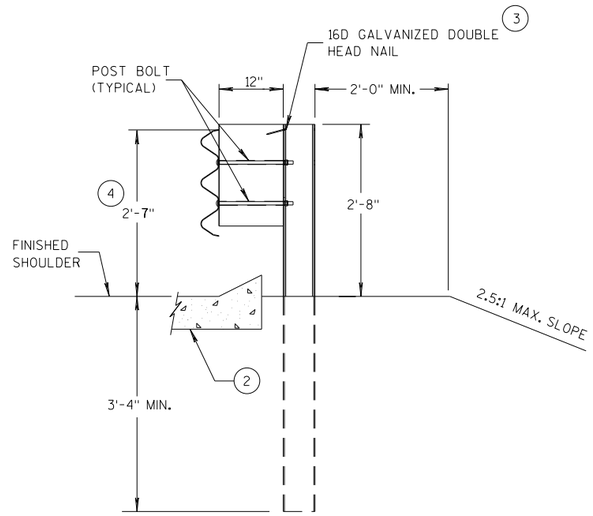
SECTION A-A (13)

POSTS 1-5



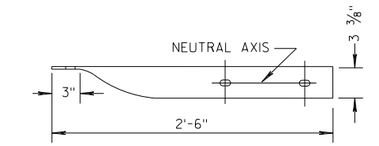
SECTION B-B

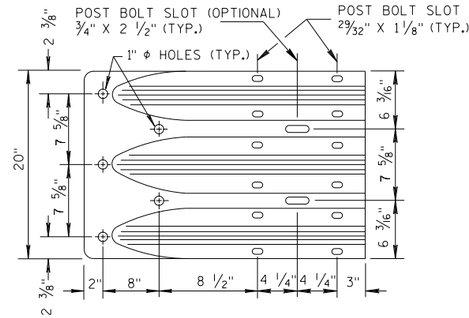
POST 6



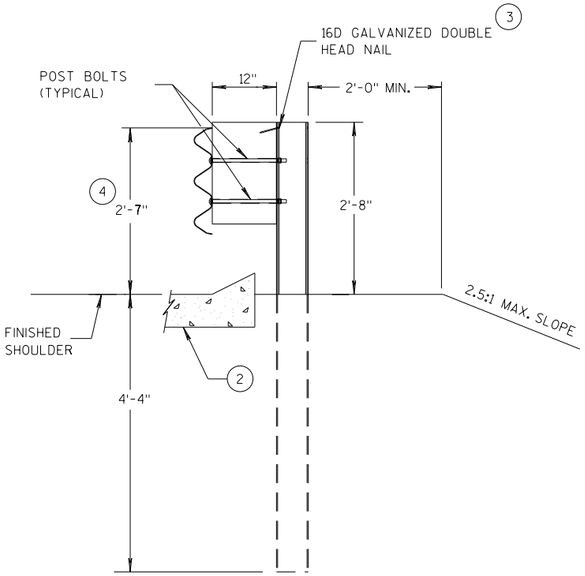
SECTION C-C

POSTS 7-11



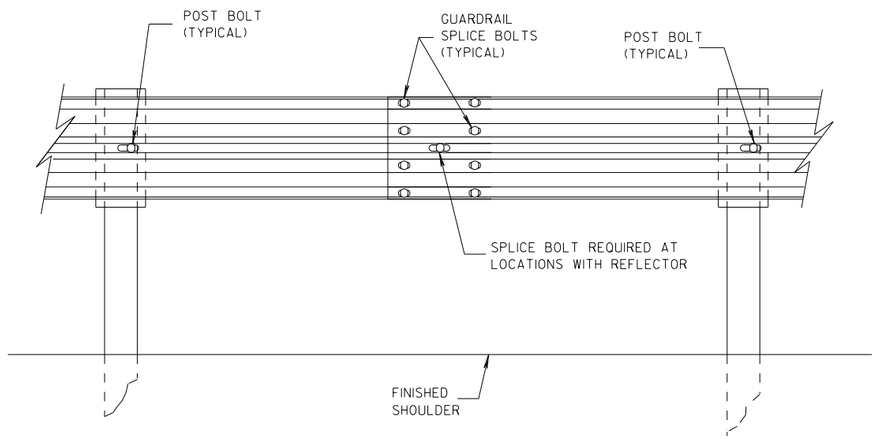


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

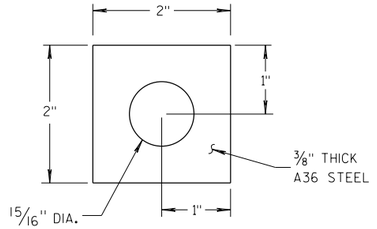
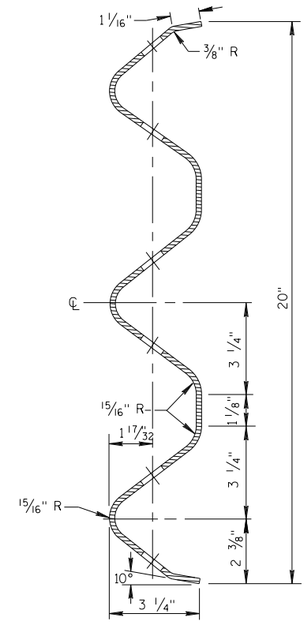


PLATE WASHER DETAIL



SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 241

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S.D.D. 14 B 45-5b

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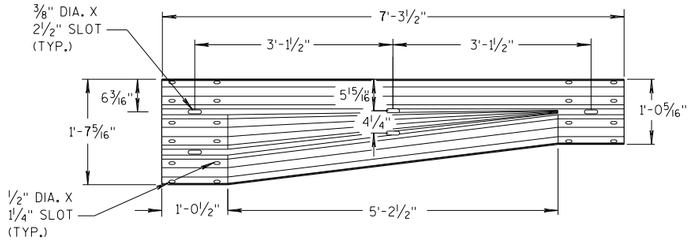
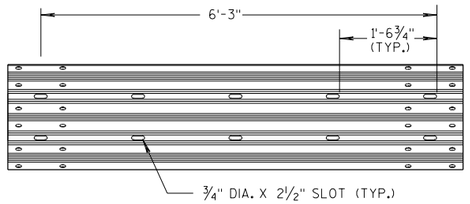
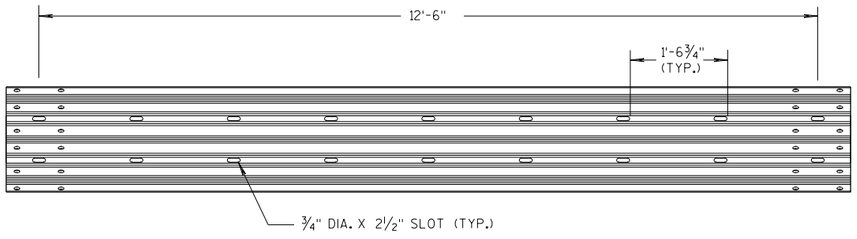
S.D.D. 14 B 45-5b



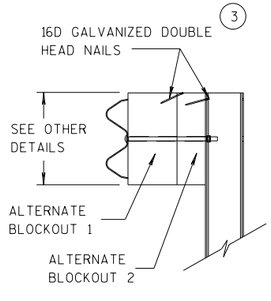
W-BEAM TO THRIE BEAM TRANSITION SECTION



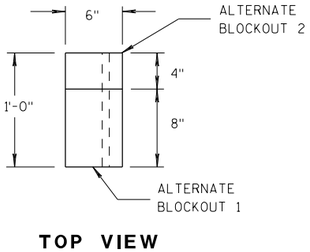
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

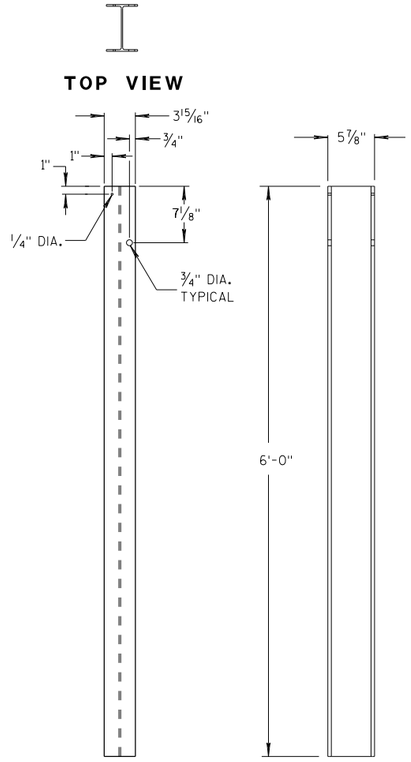


SIDE VIEW



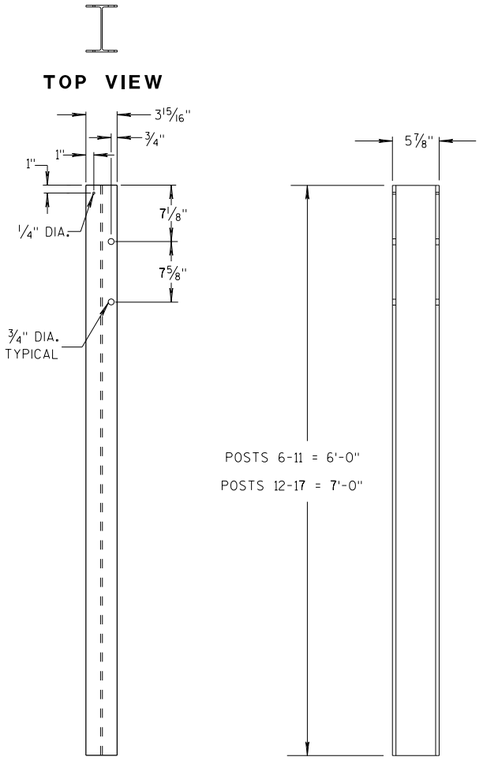
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



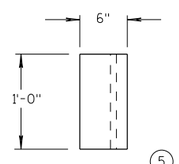
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

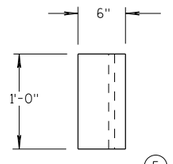


FRONT VIEW SIDE VIEW

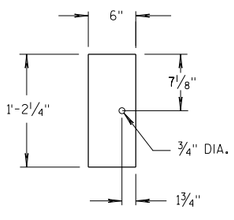
STEEL POSTS 6-17



TOP VIEW (5)

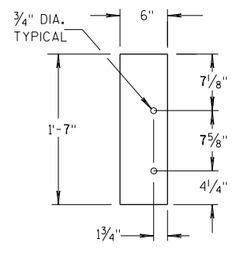


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 242

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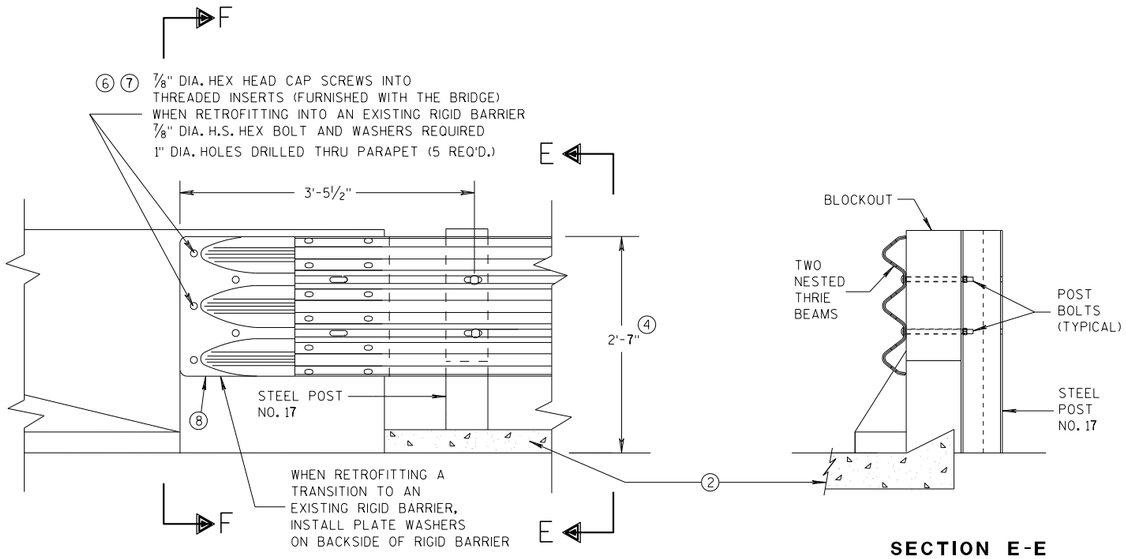
S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

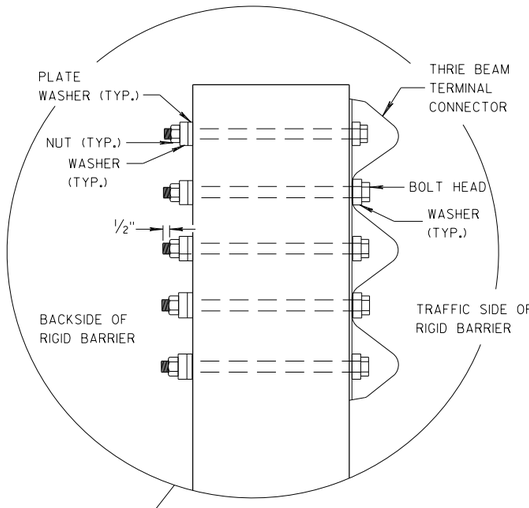
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

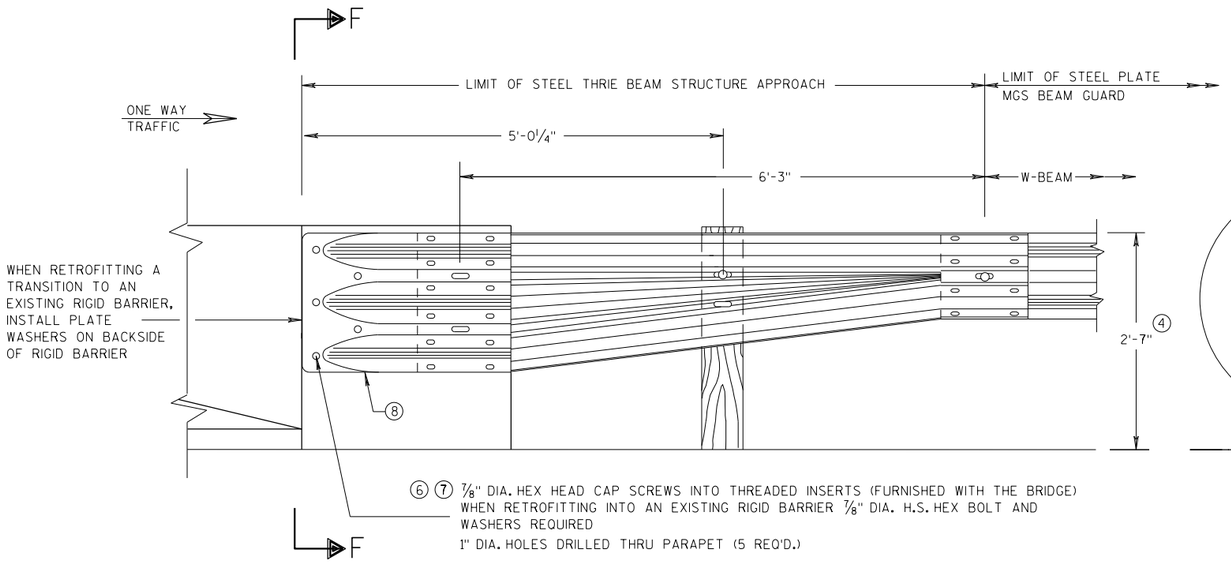
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

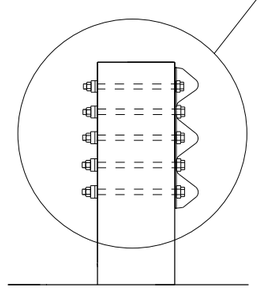
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

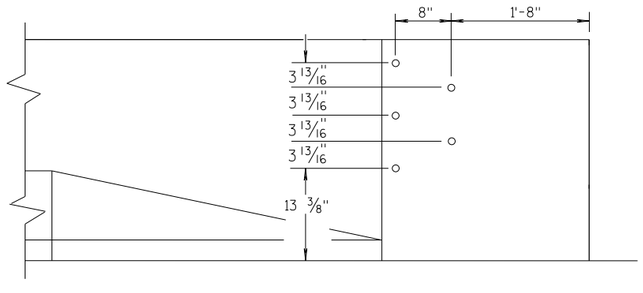




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D[illegible] UNIT SUPERVIS[illegible] NT
FHWA

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S.D.D. 14 B 45-5d

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S.D.D. 14 B 45-5d

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

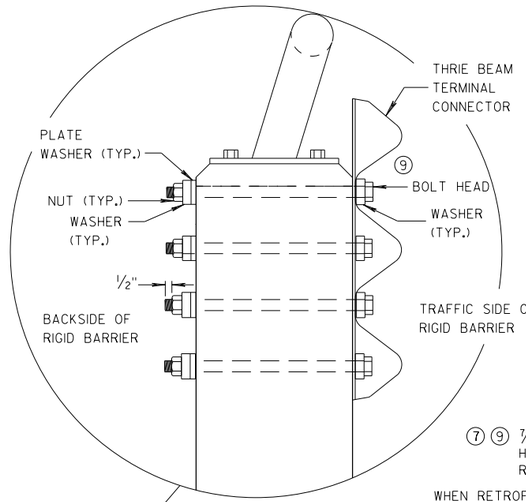
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

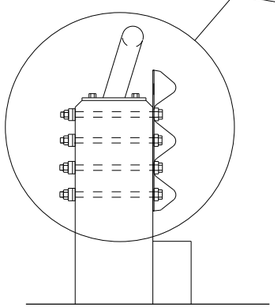
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

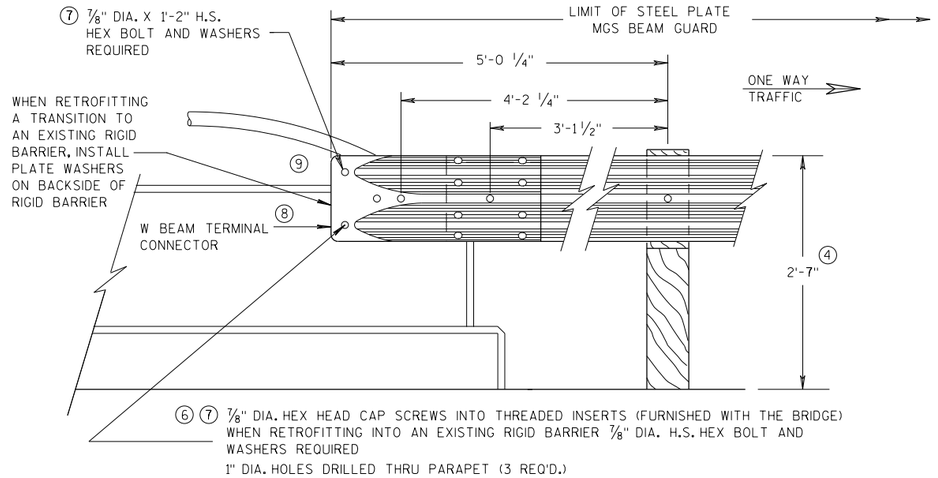
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

(9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.





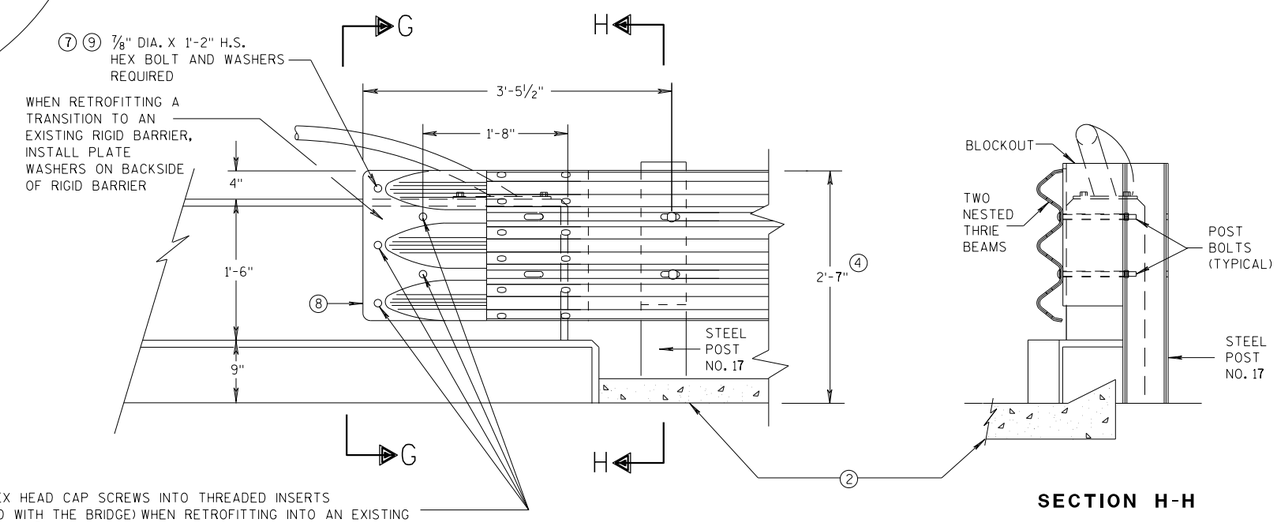
SECTION G-G



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D UNIT SUPERVI
FHWA

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S.D.D. 14 B 45-5e

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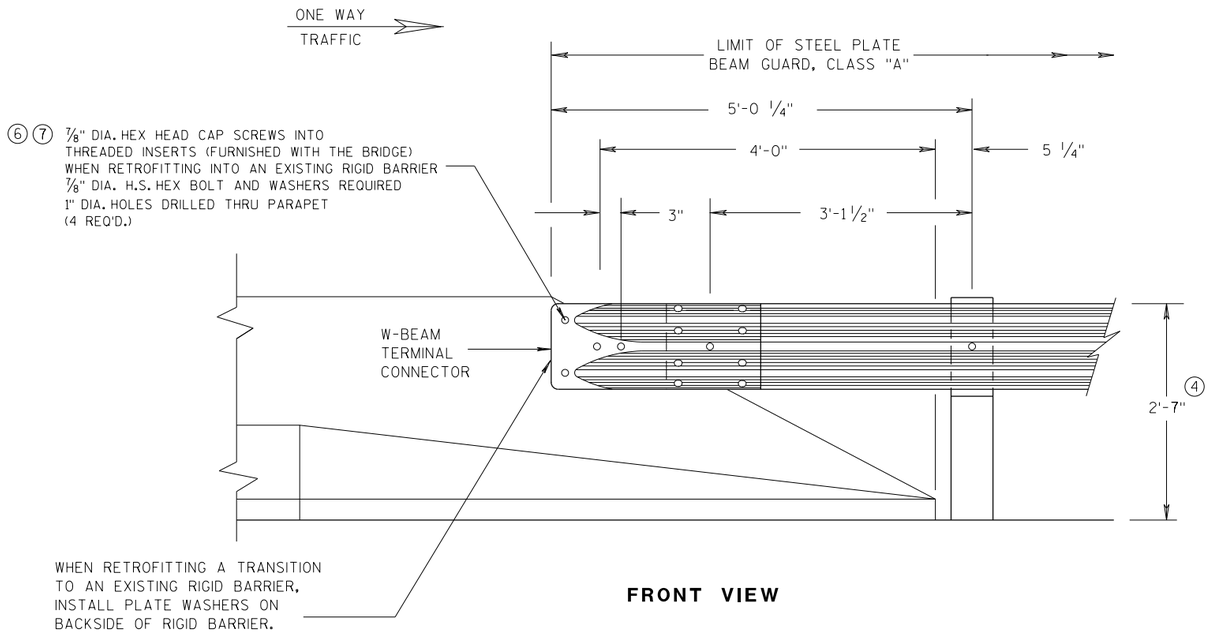


FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

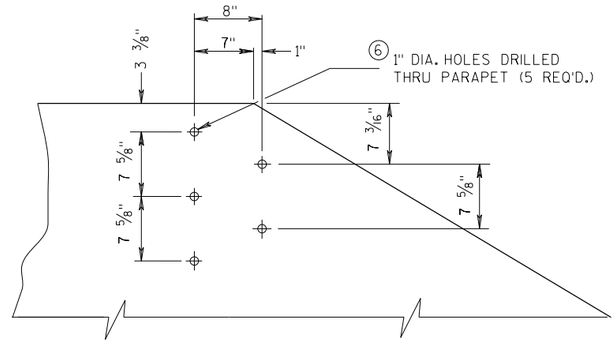
GENERAL NOTES

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

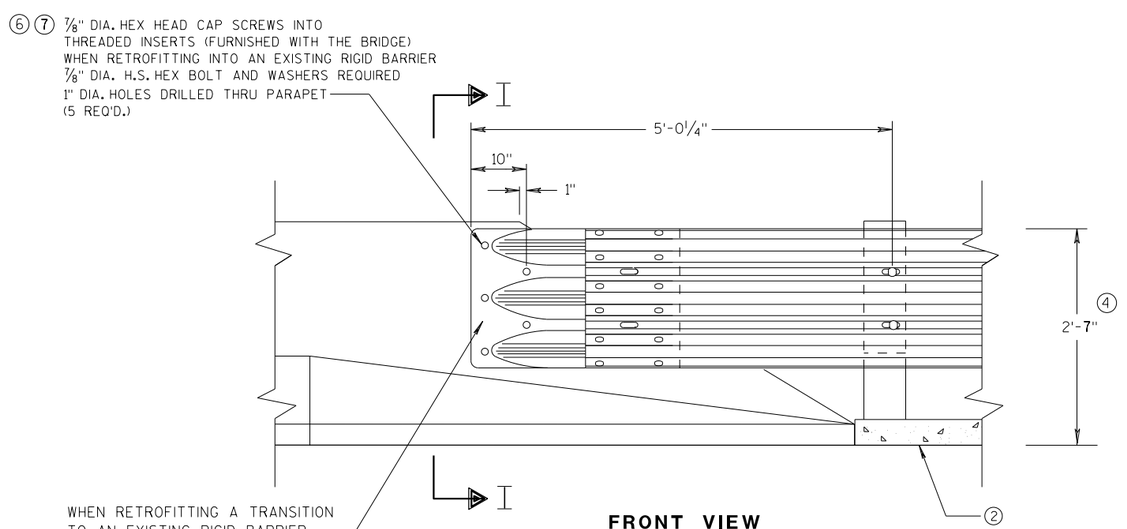
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

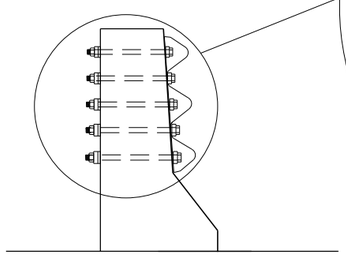
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



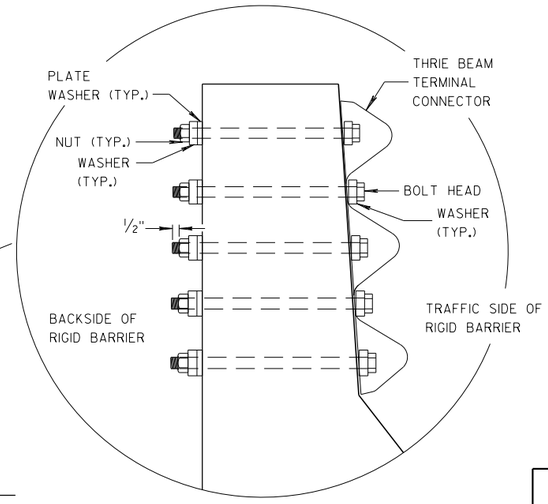
DRILL HOLE LOCATION AND PATTERN
FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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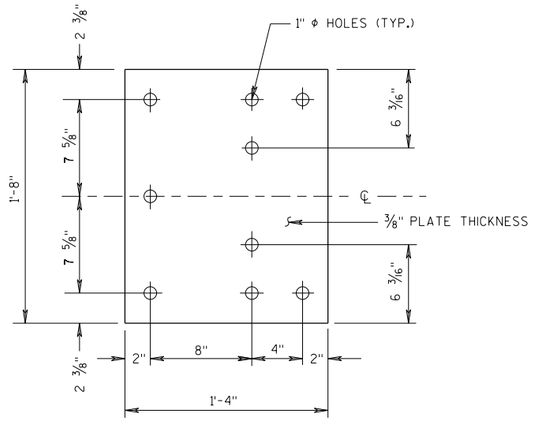
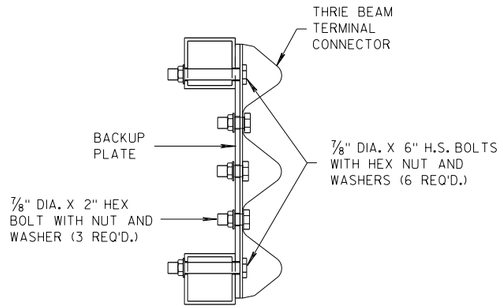
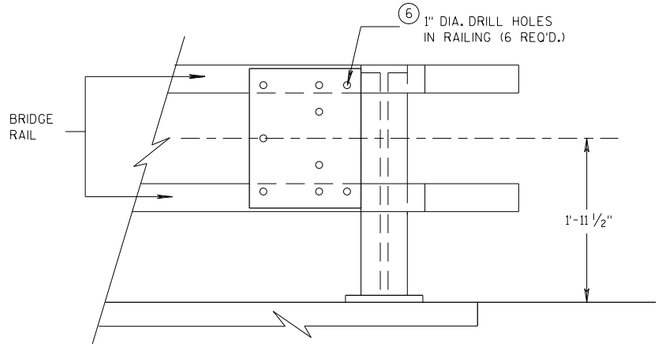
S.D.D. 14 B 45-5f



BACK-UP PLATE DETAIL



SECTION J-J

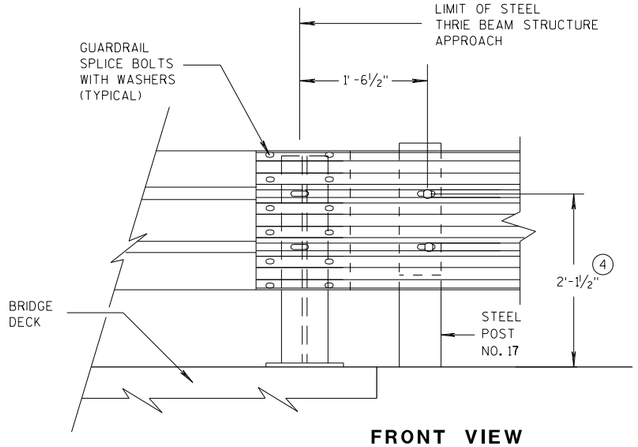


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

GENERAL NOTES

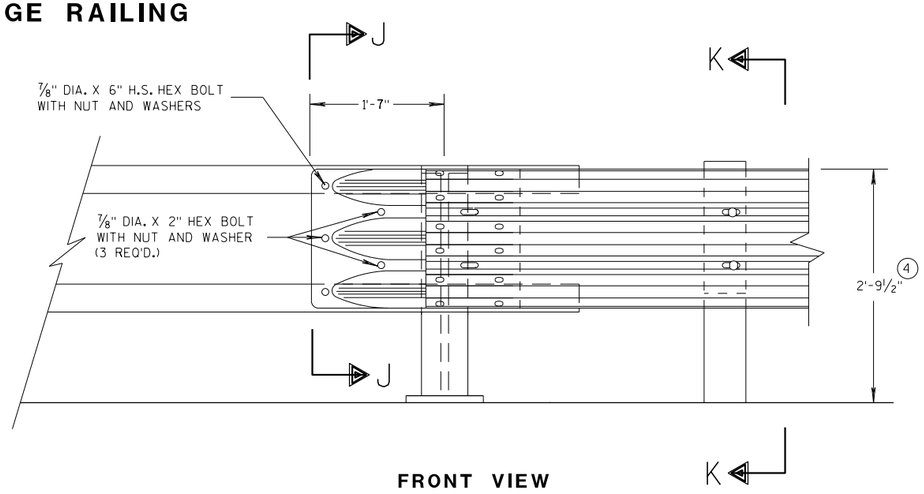
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

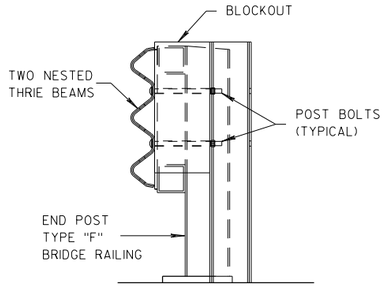


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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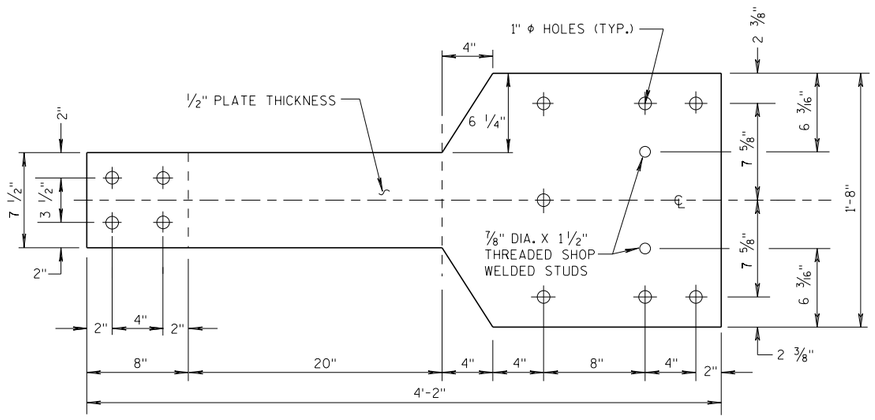
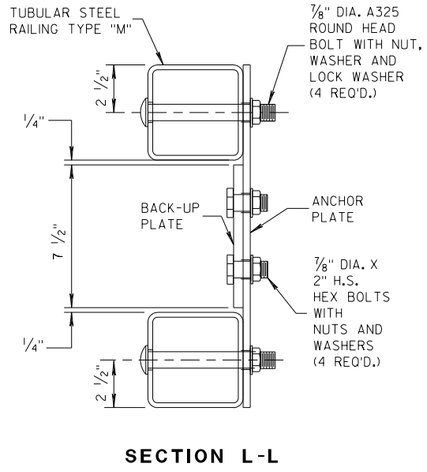
GENERAL NOTES

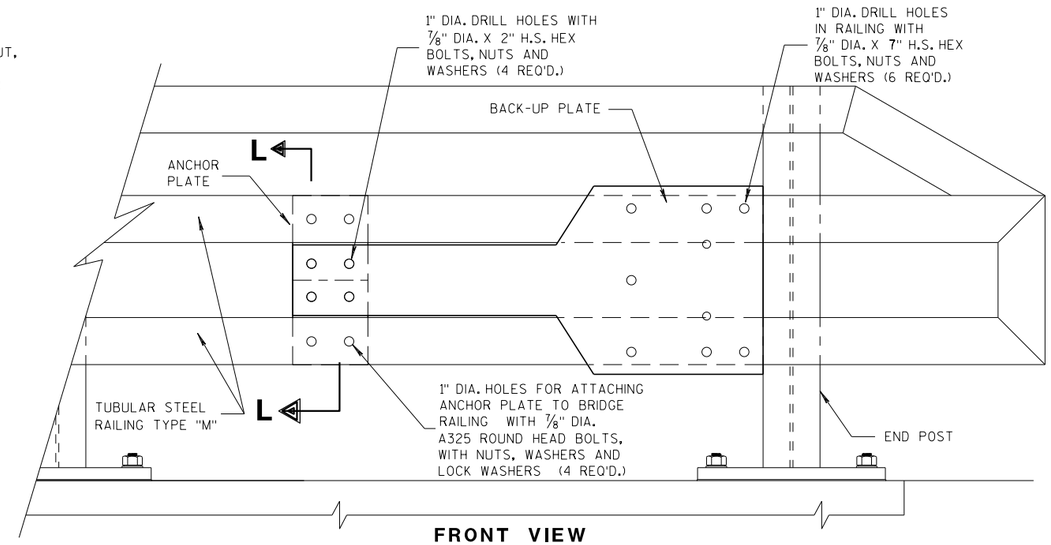
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



FRONT VIEW

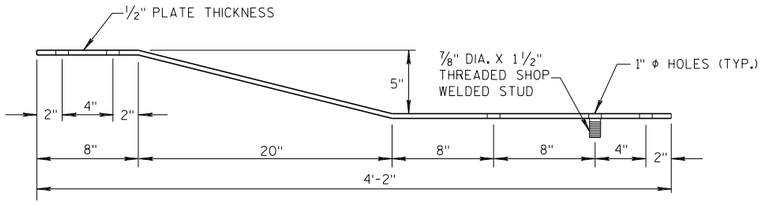


SECTION L-L



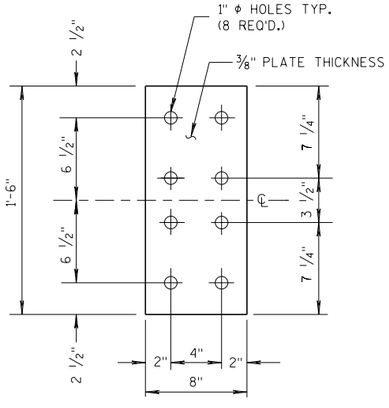
FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



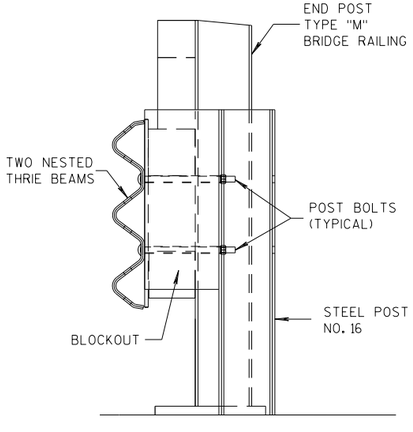
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

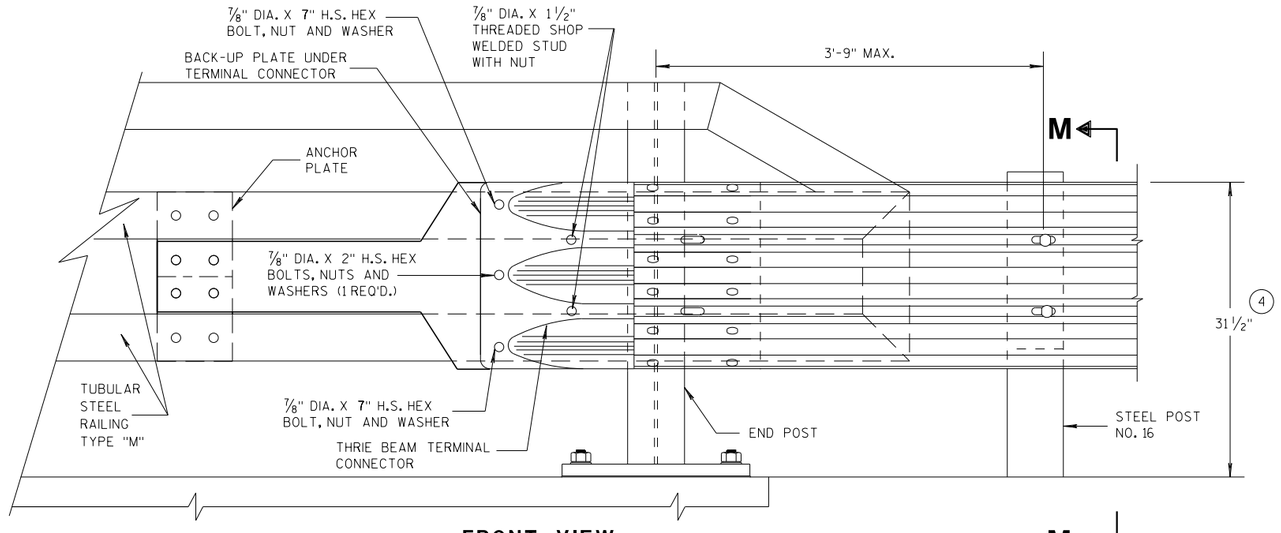


FRONT VIEW

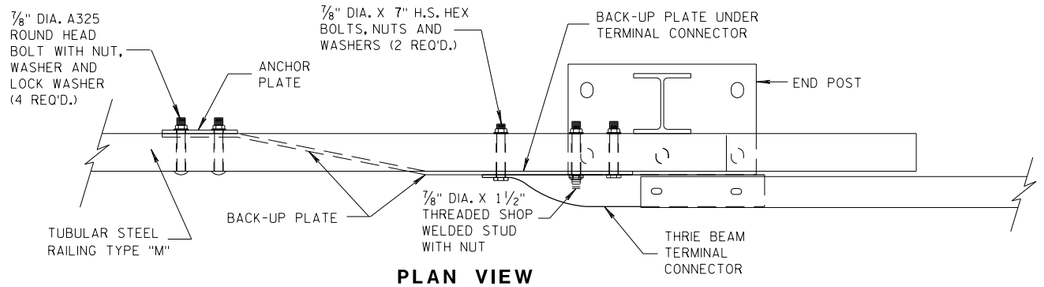
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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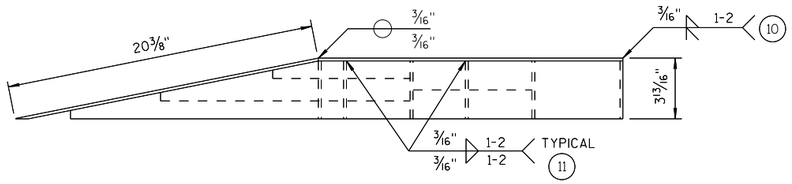
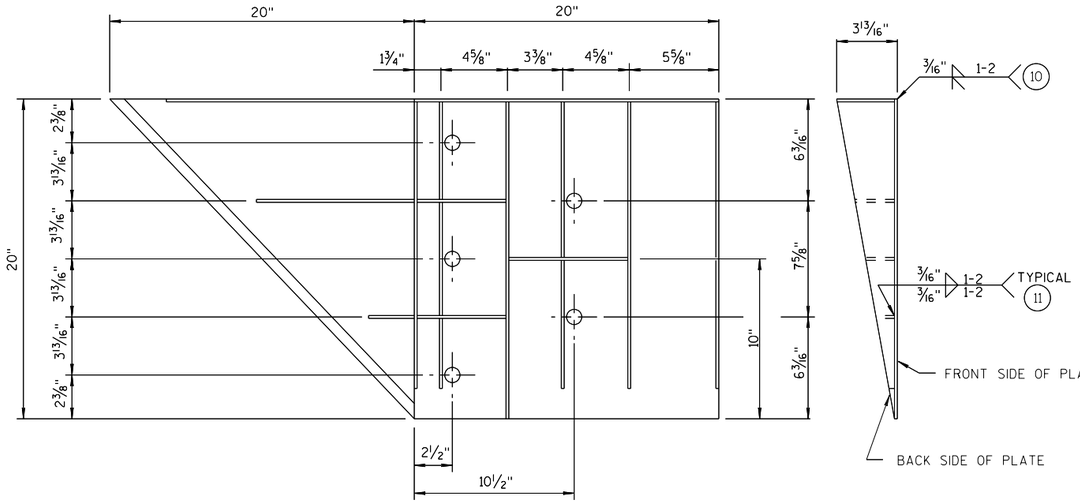
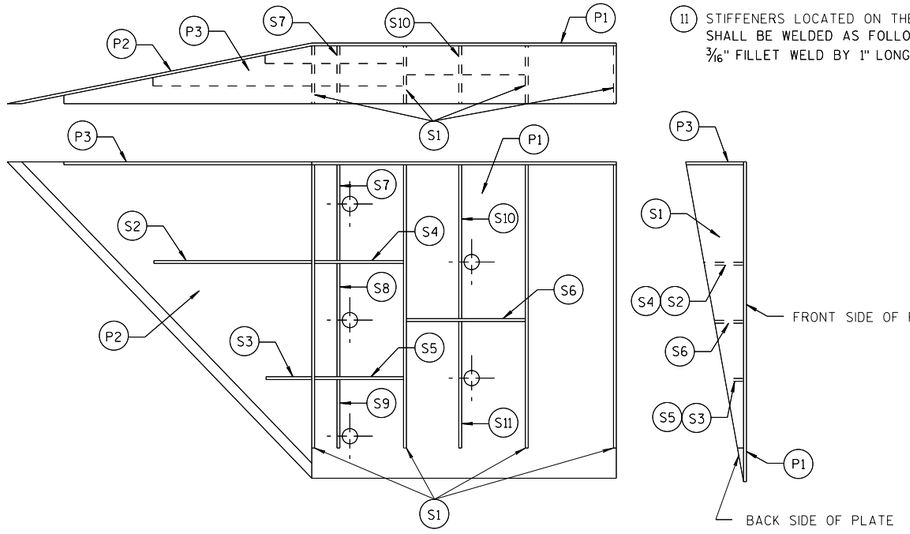




WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)



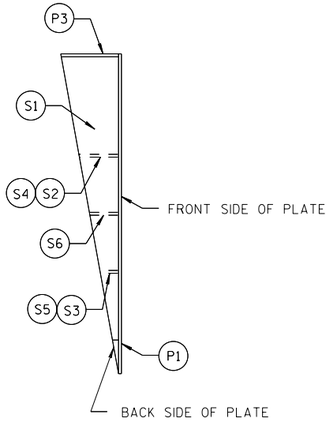


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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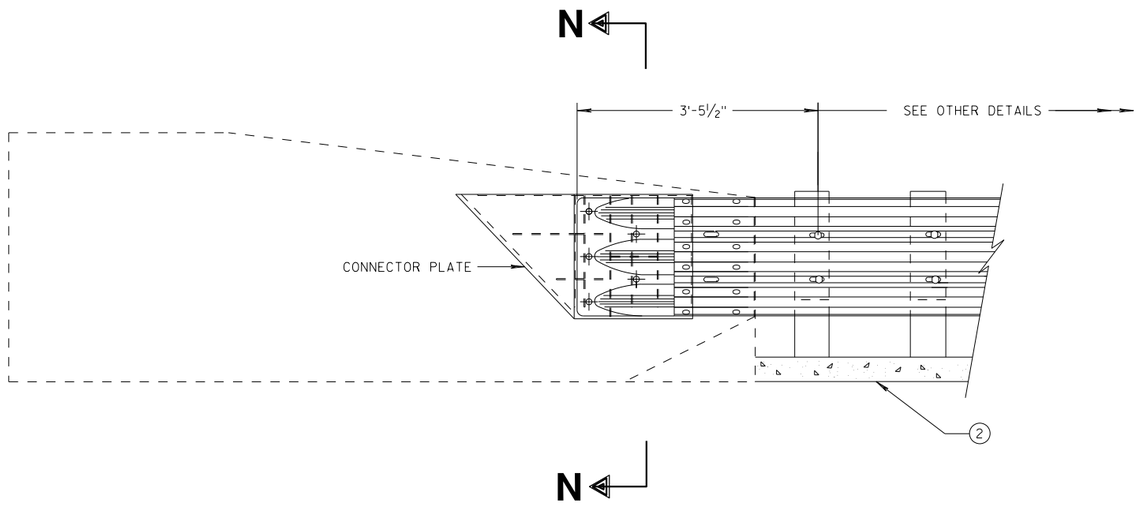
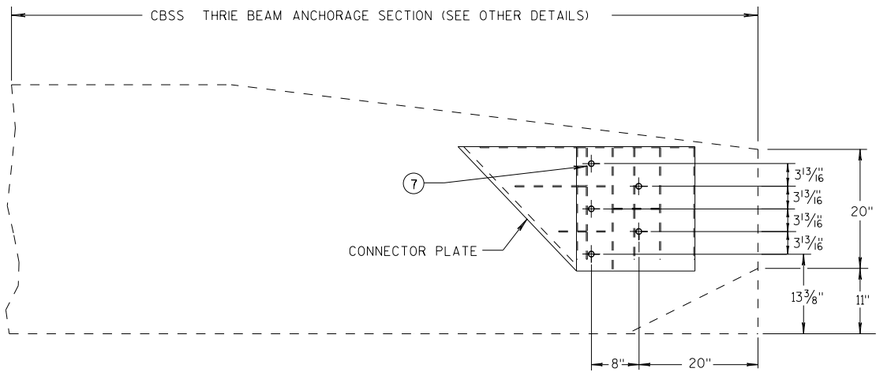


THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



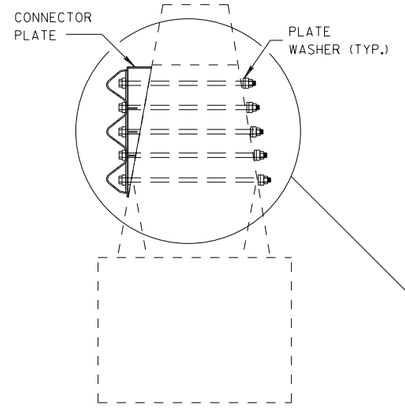
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

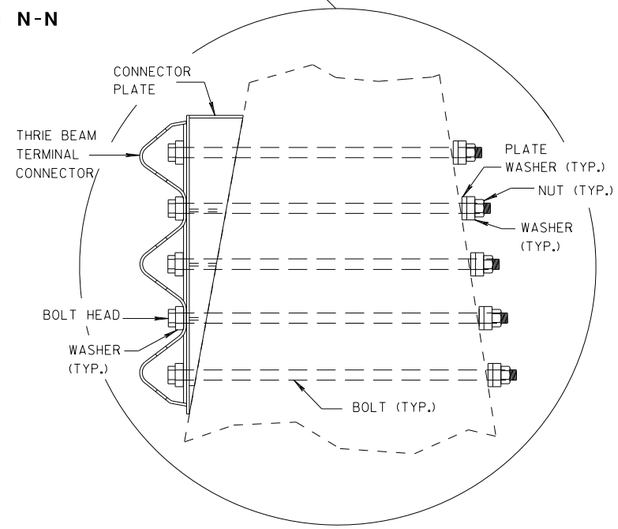
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X ⅝" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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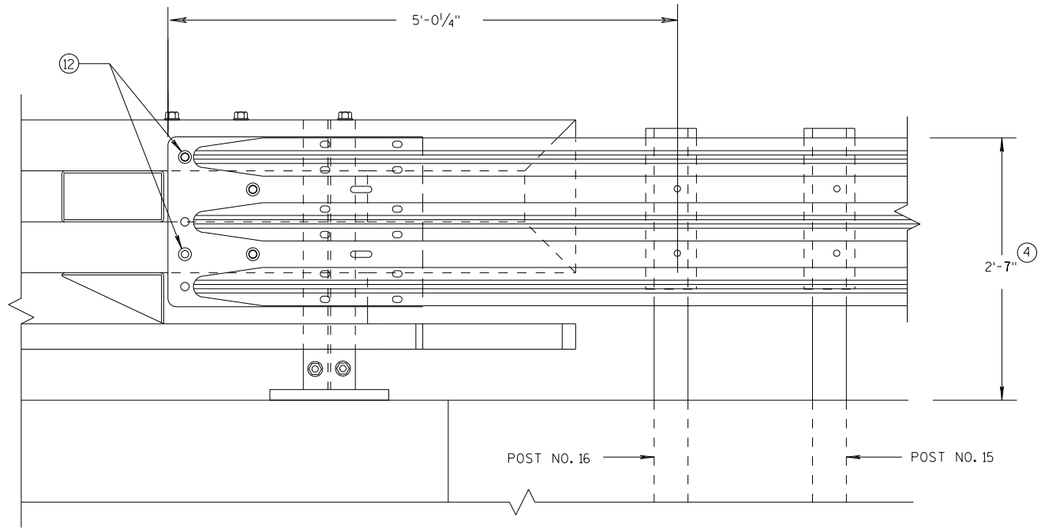
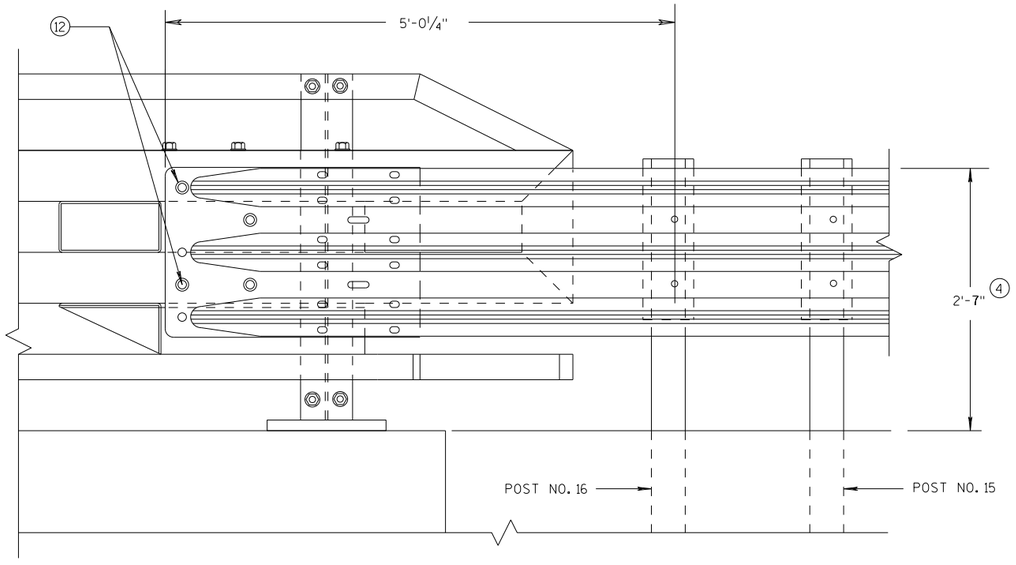


ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

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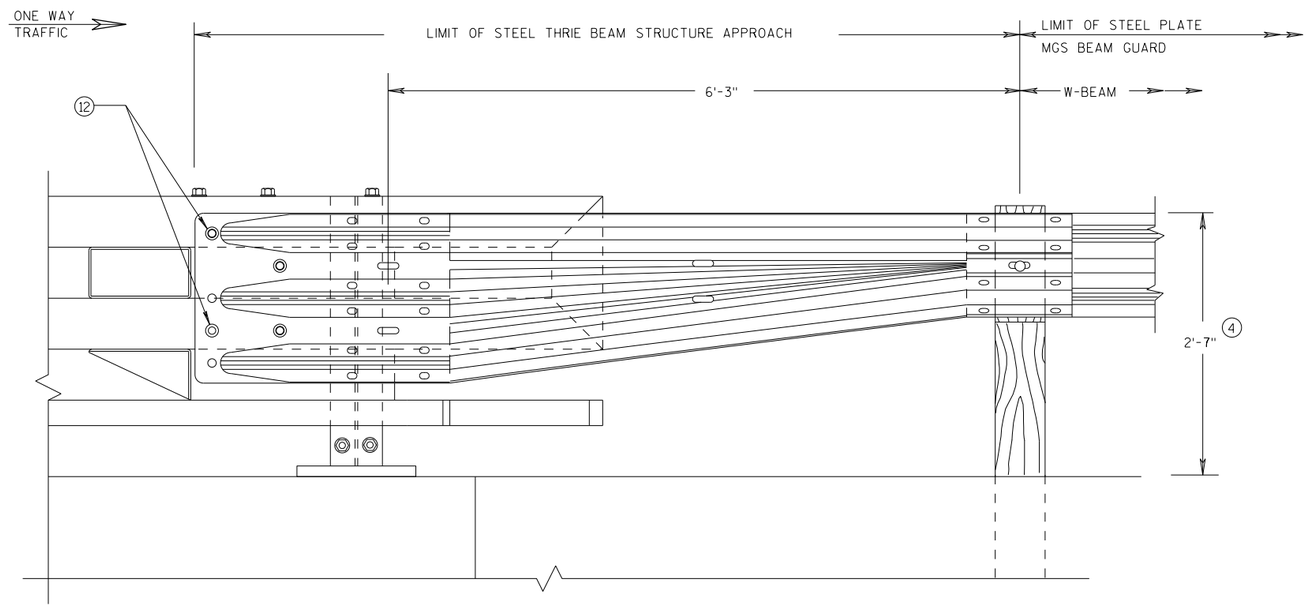


FRONT VIEW

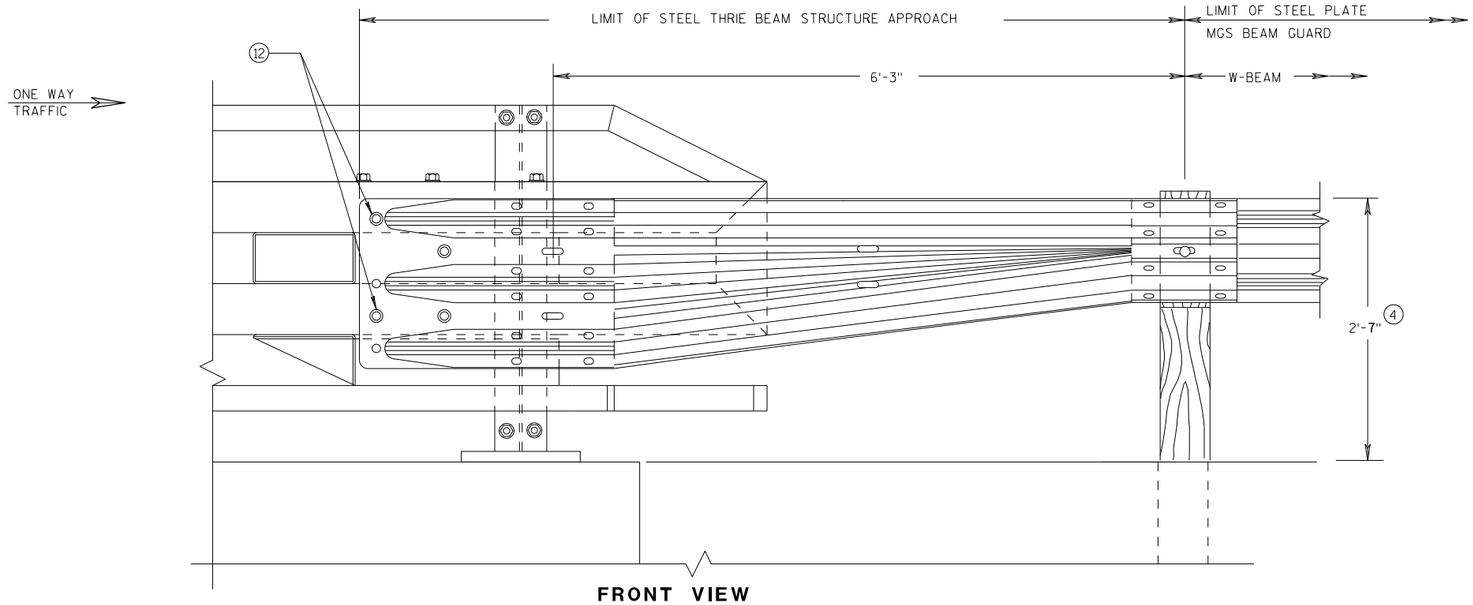
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

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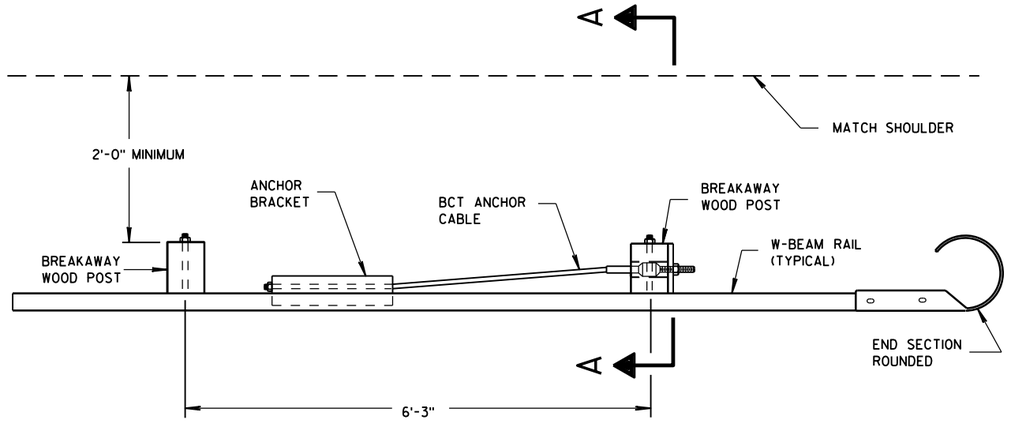
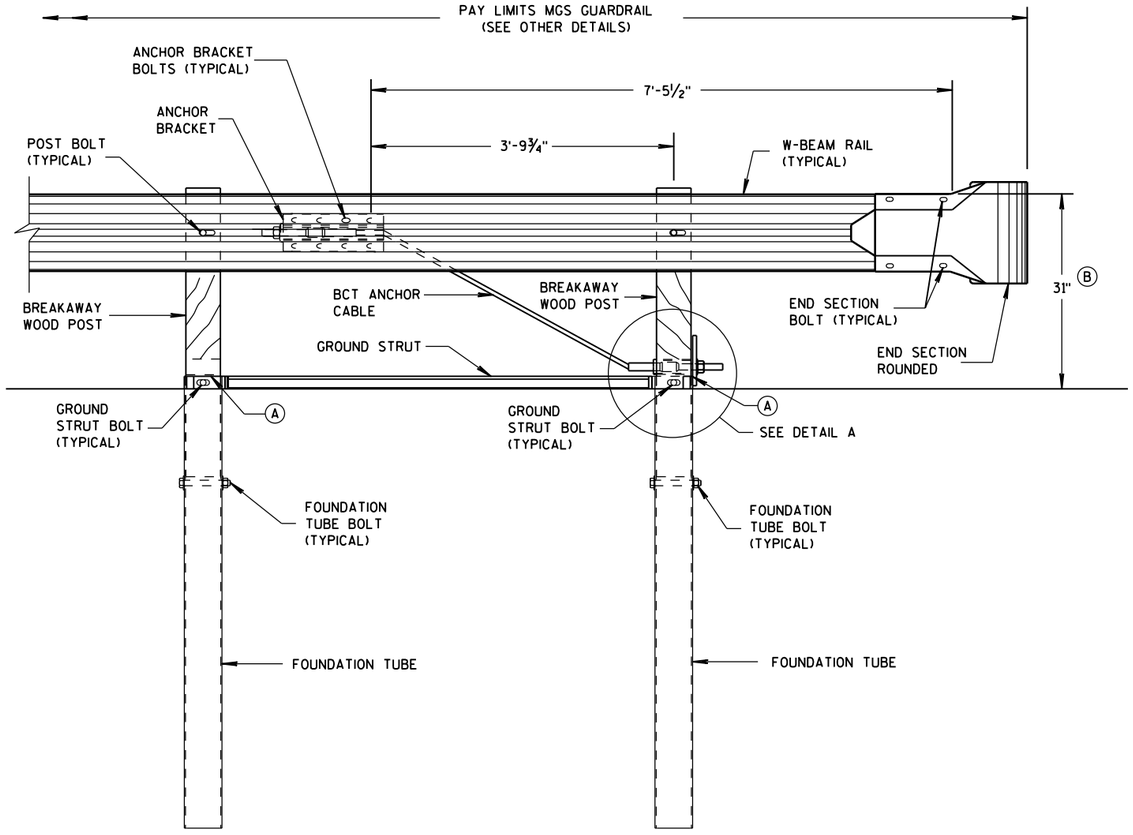
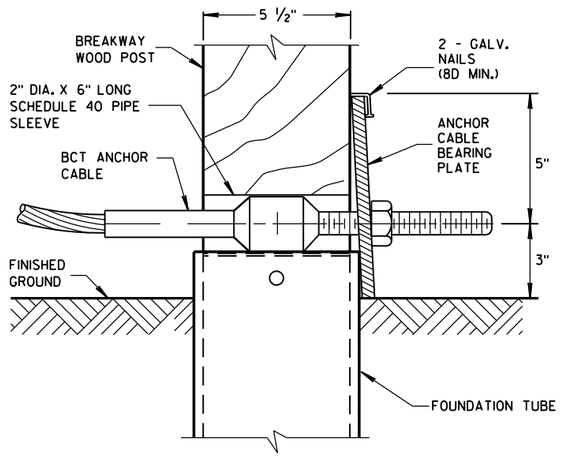


PLAN VIEW



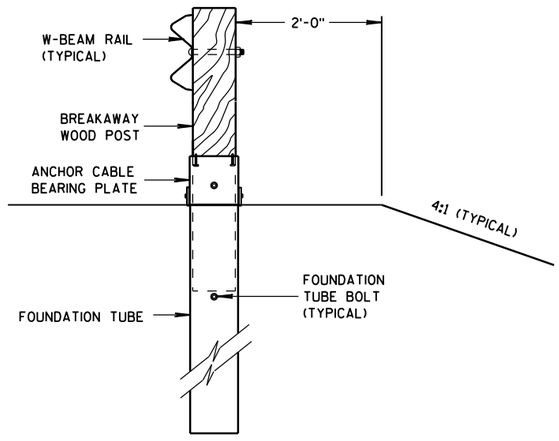
FRONT VIEW

END RAIL DETAIL



DETAIL A

POST NO. 1
GROUNG STRUT NOT SHOWN FOR CLARITY.



SECTION A-A

GENERAL NOTES

SEE SDD 14 B 42 FOR MORE INFORMATION.

END SECTION BOLTS AND NUTS HAVE THE SAME MATERIAL REQUIREMENTS AS SPLICE BOLTS.

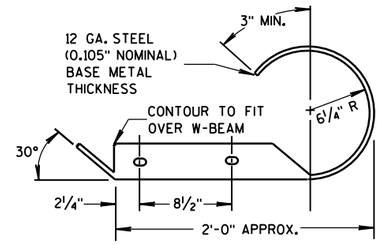
FOUNDATION TUBE BOLTS ARE ⅞" DIAMETER ASTM A307 HEX HEAD BOLT. FOUNDATION TUBE BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅞" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

ANCHOR BRACKET AND GROUND STRUT BOLTS ARE A ⅝" DIAMETER ASTM A307 HEX HEAD BOLT. ANCHOR BRACKET BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅝" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

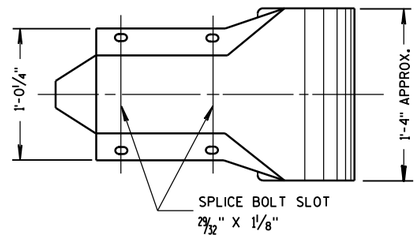
W-BEAM END SECTION ROUNDED HAS THE SAME MATERIAL PROPERTIES AS STANDARD STEEL RAIL.

(A) TOP OF FOUNDATION TUBE SHALL BE NO MORE THAN 3" ABOVE FINISHED GROUND.

(B) FOR NEW CONSTRUCTION TOP OF RAIL IS 31" ± 1".
FOR EXISTING INSTALLATIONS TOP OF RAIL IS BETWEEN 27¾" TO 32" ± 1".



PLAN VIEW



FRONT VIEW

W BEAM END SECTION ROUNDED

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

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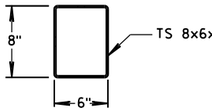
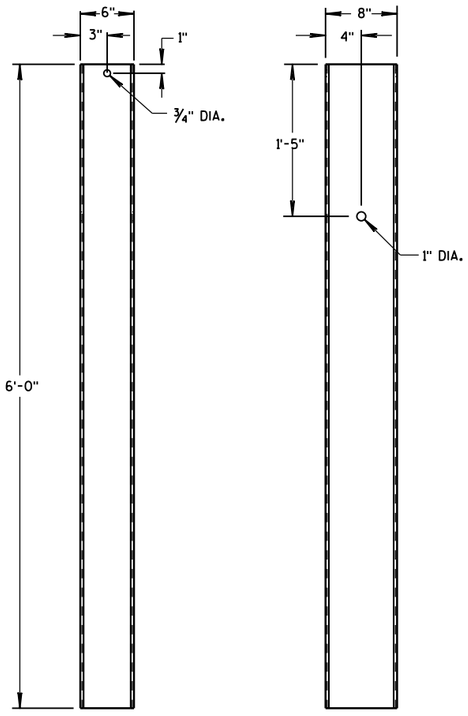
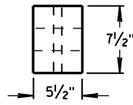


PLAN VIEW

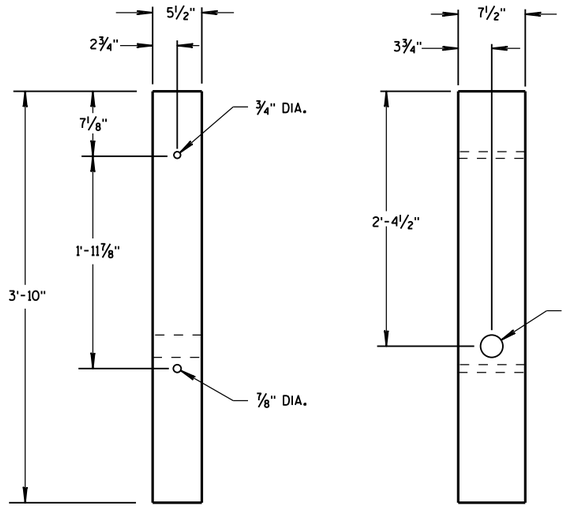


FRONT VIEW SIDE VIEW

FOUNDATION TUBE



PLAN VIEW



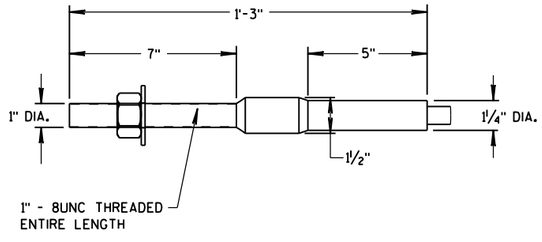
FRONT VIEW SIDE VIEW

BREAKAWAY WOOD POST

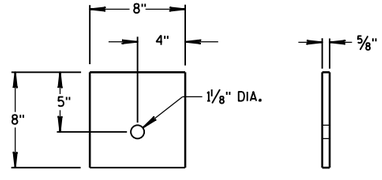
GENERAL NOTES

BCT ANCHOR CABLE IS A ¾" DIAMETER 6X19 IWRC IPS GALVANIZED WIRE ROPE. THE SWAGED FITTINGS AND STUD ARE REQUIRED. END FITTING SHALL BE MACHINED FROM HOT-ROLLED CARBON STEEL CONFORMING TO ASTM A576 GRADE 1035 AND GALVANIZED ACCORDING TO ASTM A123. TREADED STUD SHALL CONFORM TO ASTM A325 OR SAE GRADE 5. MINIMUM BREAKING STRENGTH OF WIRE ROPE IS 43,000 LB. WIRE ROPE IS TO BE TAUT.

BCT ANCHOR CABLE



DETAIL B



SIDE VIEW FRONT VIEW

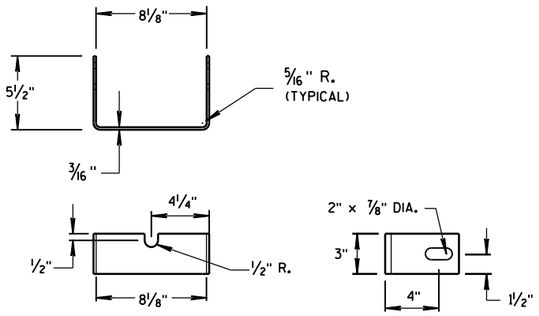
ANCHOR CABLE
BEARING PLATE

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

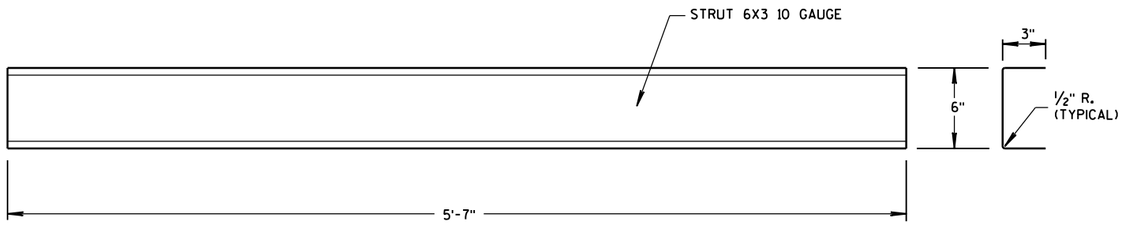
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

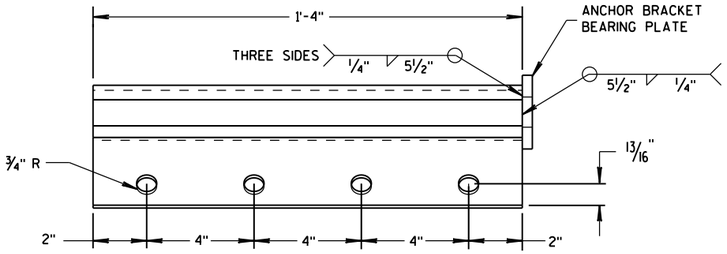
S.D.D. 14 B 47-2b

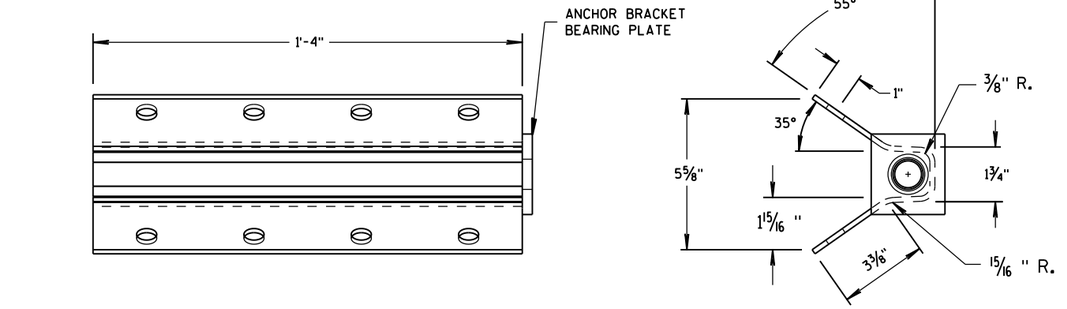


YOKE DETAIL

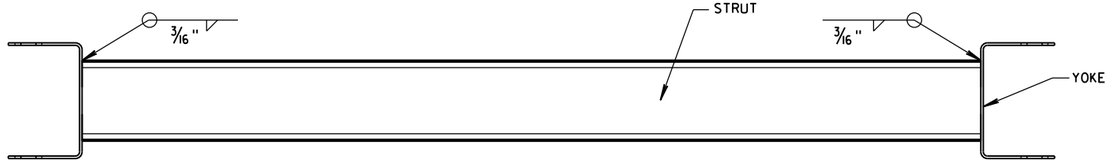


STRUT DETAIL

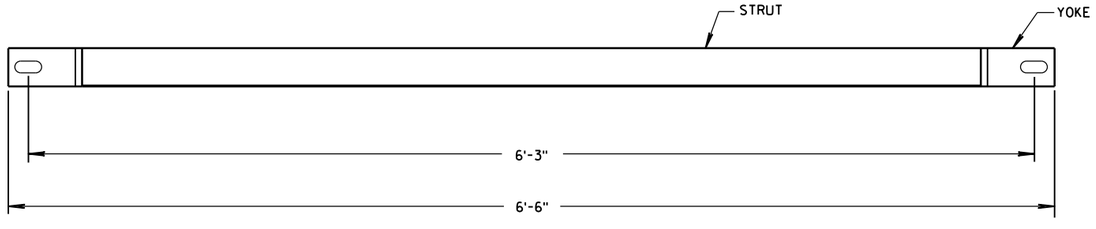




ANCHOR BRACKET

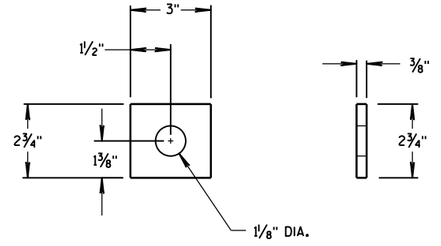


PLAN VIEW



FRONT VIEW

GROUND STRUT DETAIL



ANCHOR BRACKET BEARING PLATE

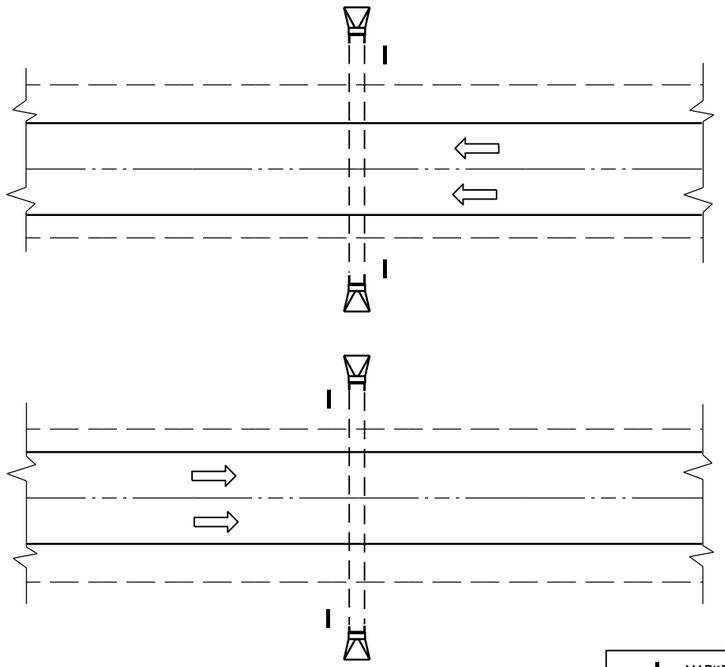
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

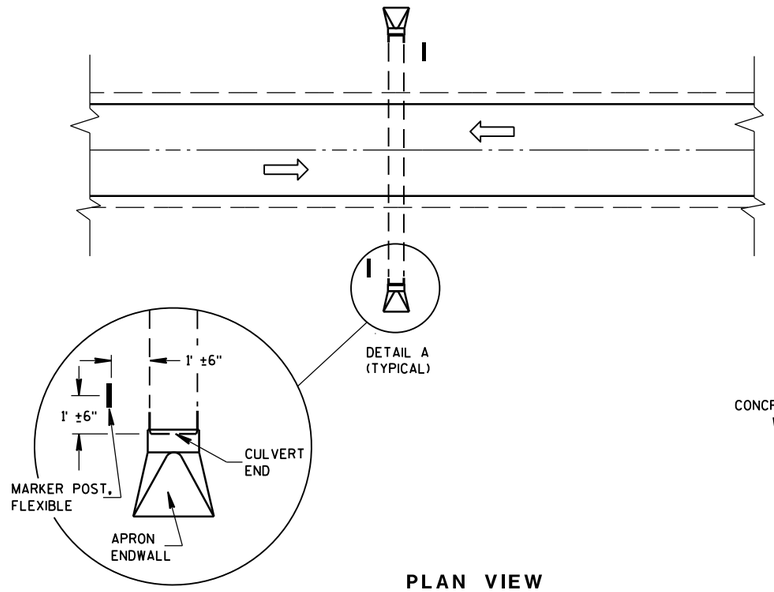
6

S.D.D. 14 B 47-2c



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

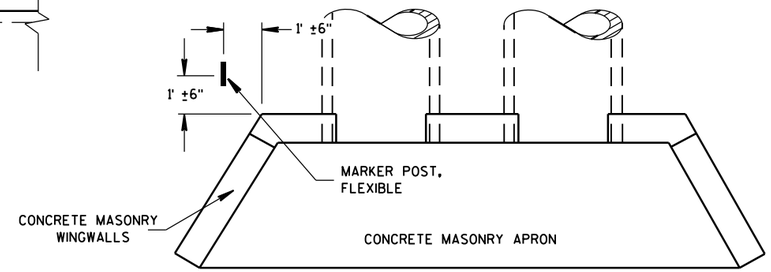
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

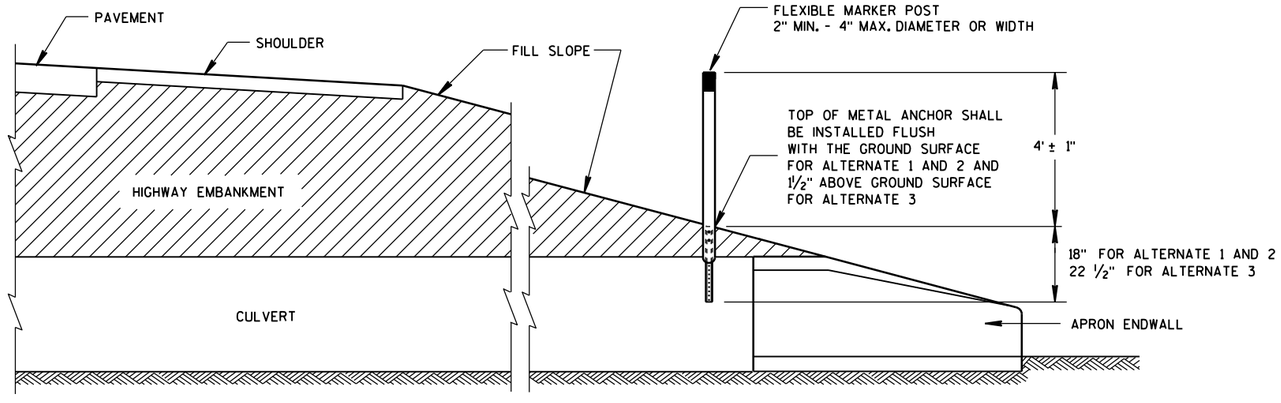
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

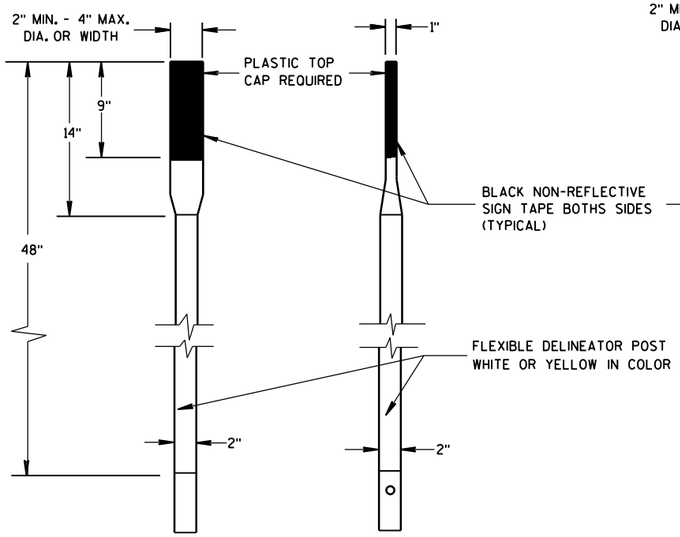
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

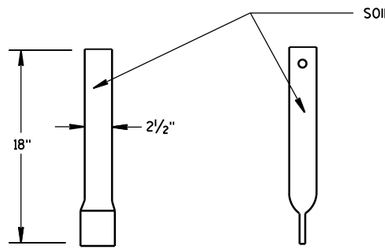
6

S.D.D. 15 A 3-2a

6

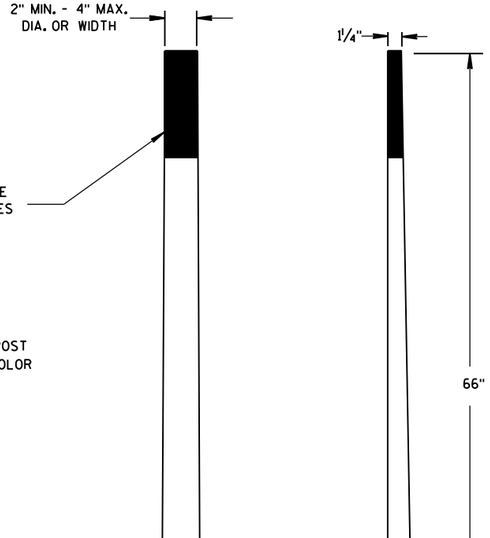
S.D.D. 15 A 3-2a





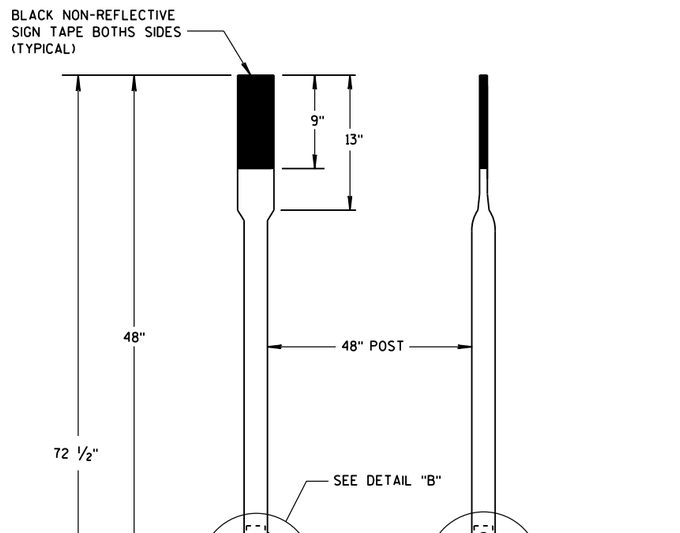
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

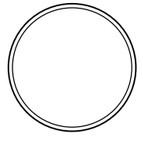
ALTERNATE 2



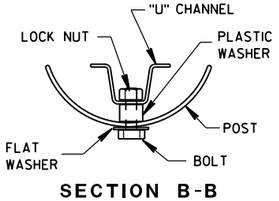
FRONT VIEW SIDE VIEW

ALTERNATE 3

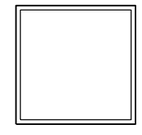
FLEXIBLE MARKER POSTS



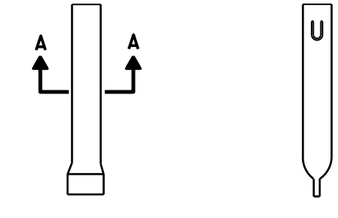
SECTION A-A



SECTION B-B

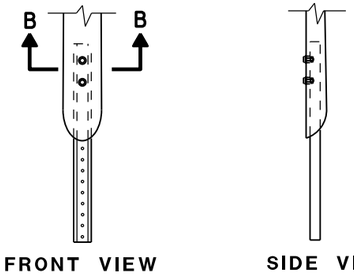


SECTION C-C



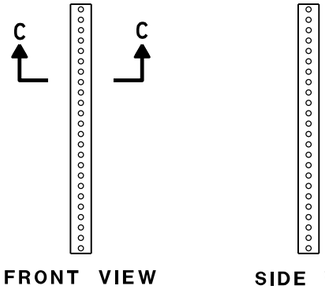
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

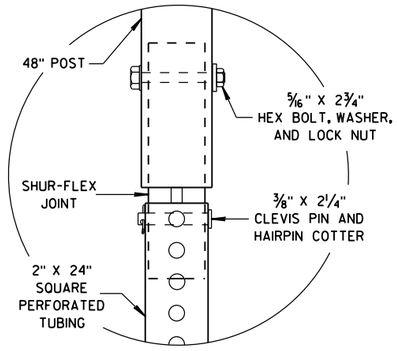
ALTERNATE 2



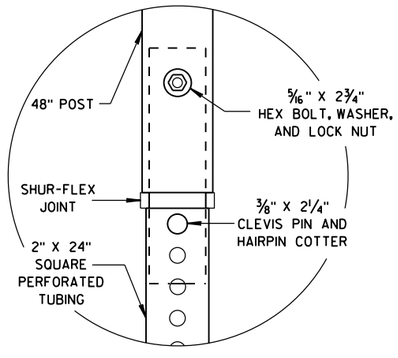
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

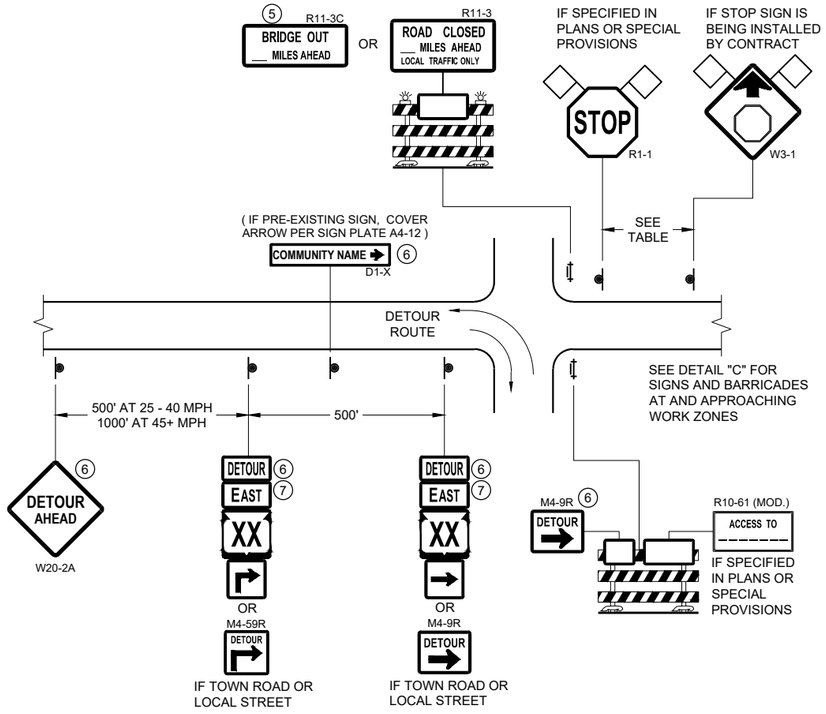
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

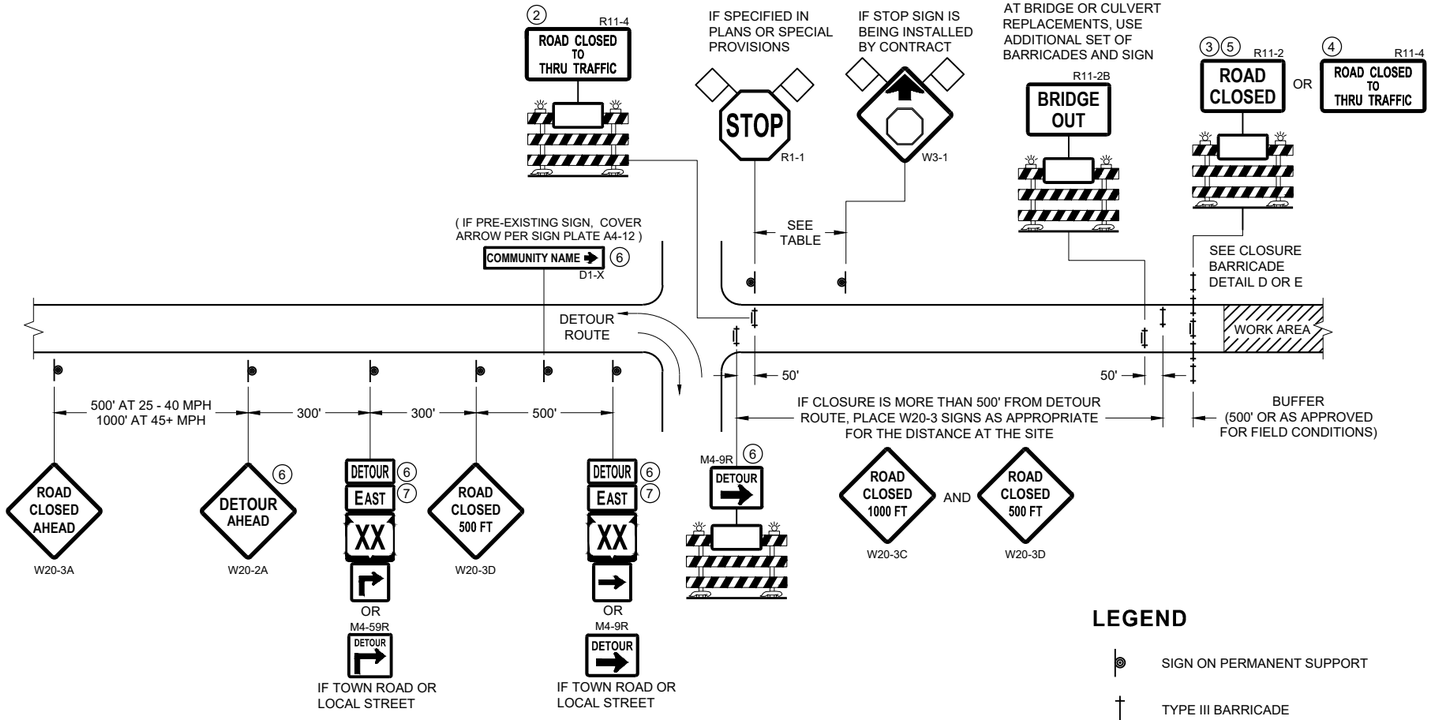
6

S.D.D. 15 A 3-2b

6

S.D.D. 15 A 3-2b





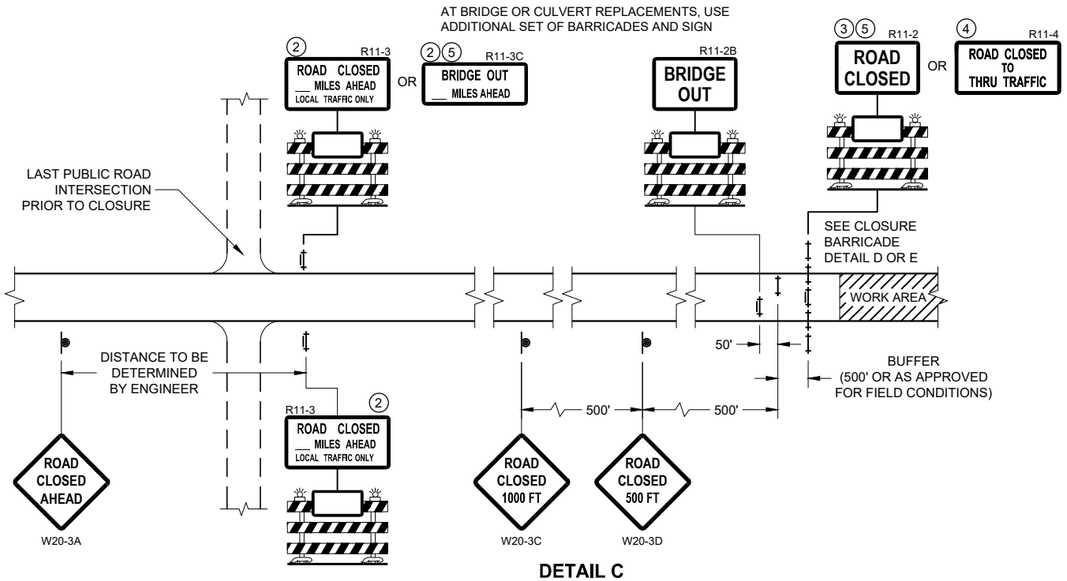
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR
WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR
WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

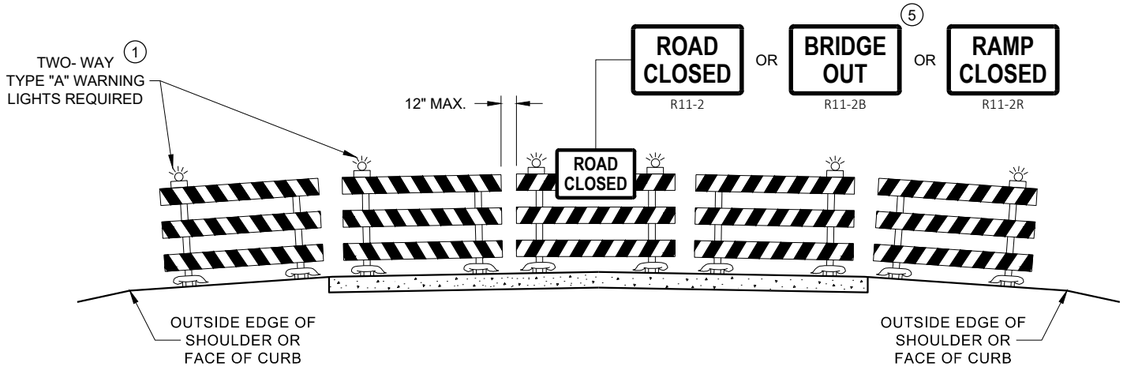
APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

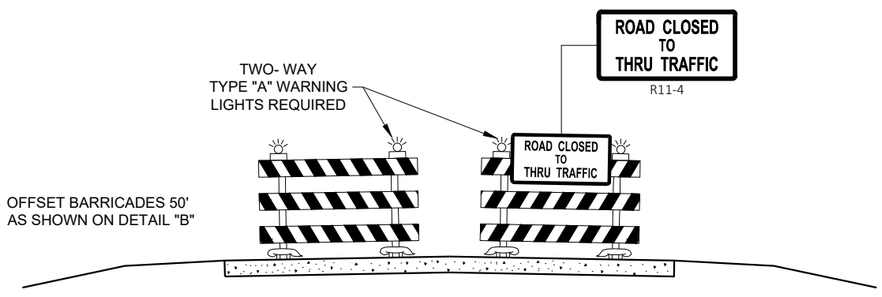
6

SDD 15C02 - 07a

SDD 15C02 - 07a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 07b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

500' AT 25-40 MPH
1000' AT 45+ MPH

500'

DETOUR EAST XX *

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

M4-8a END DETOUR WEST XX *

DETOUR EAST XX / WEST XX

DETOUR ROUTE

WORK AREA

DETOUR EAST XX

WEST XX OR M4-9L DETOUR ** IF TOWN ROAD OR LOCAL STREET

500'

DETOUR NEXT X MILES * G20-51

DETOUR WEST XX * OR M4-59L DETOUR ** IF TOWN ROAD OR LOCAL STREET

SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

MATCH POINT

* M4-59L DETOUR ** OR DETOUR EAST XX * IF TOWN ROAD OR LOCAL STREET

D1-X COMMUNITY NAME * (IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

500'

M4-9L DETOUR ** OR DETOUR EAST XX IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX

DETOUR WEST XX OR M4-9R DETOUR ** IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX * OR M4-59R * DETOUR ** IF TOWN ROAD OR LOCAL STREET

500'

DETOUR ROUTE

500' AT 25 - 40 MPH
1000' AT 45+ MPH

500'

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

DETOUR EAST XX *

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

DETOUR EAST XX

500'

DETOUR EAST XX

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

DETOUR EAST XX *

PLACE SIGNS BEYOND INTERSECTIONS WITH STATE OR COUNTY TRUNK HIGHWAYS OR AT 4 MILE MAXIMUM SPACING (4 BLOCKS IF URBAN AREA)

500' AT 25 - 40 MPH
1000' AT 45+ MPH

DETOUR EAST XX *

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15C02 - 07c

SDD 15C02 - 07c

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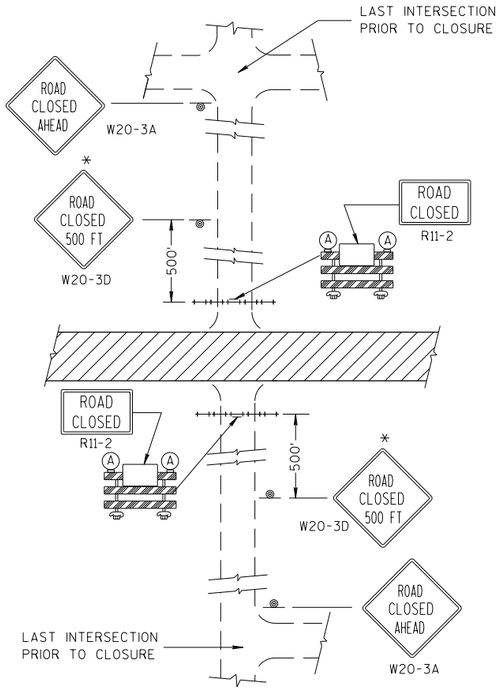
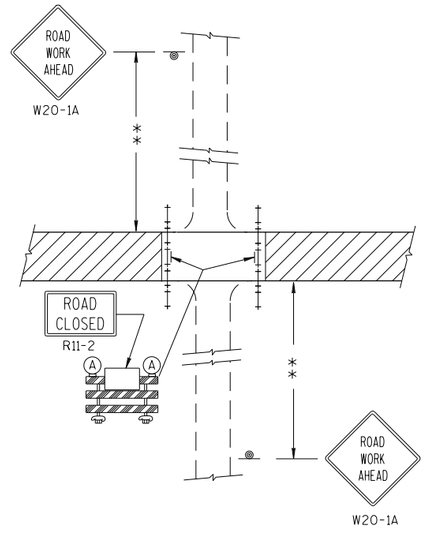


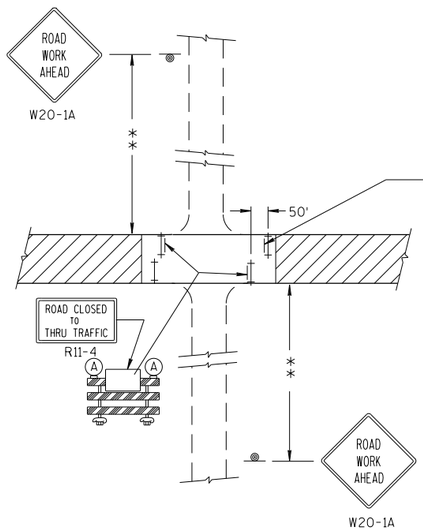
DETAIL 1

(NO ACCESS TO PROJECT)



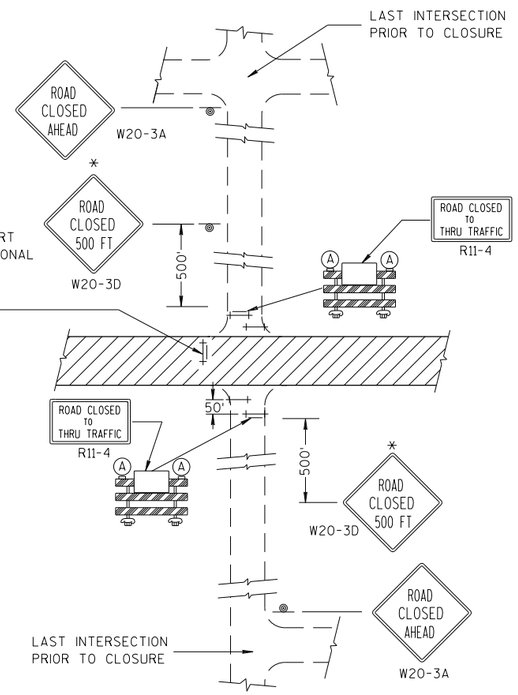
DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR,
LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGI
FHWA

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S.D.D. 15 C 3-5

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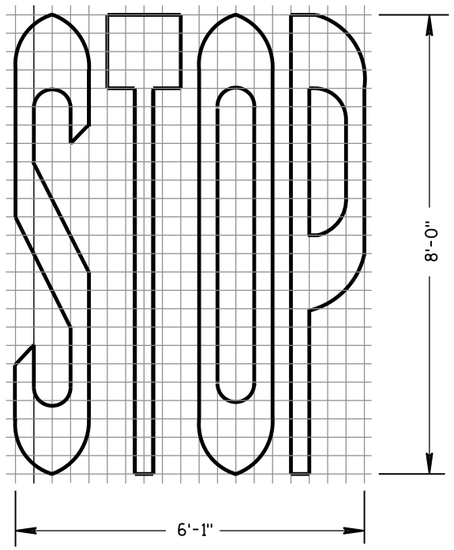
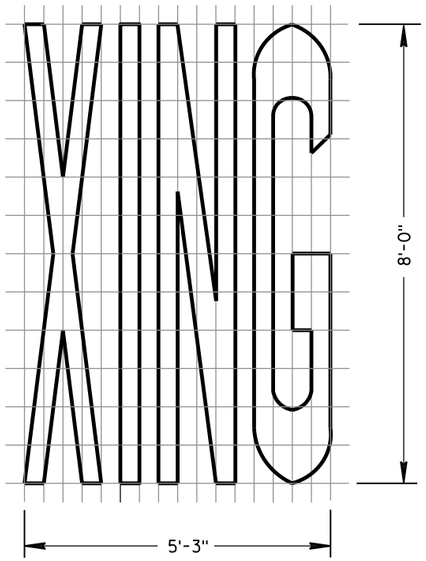
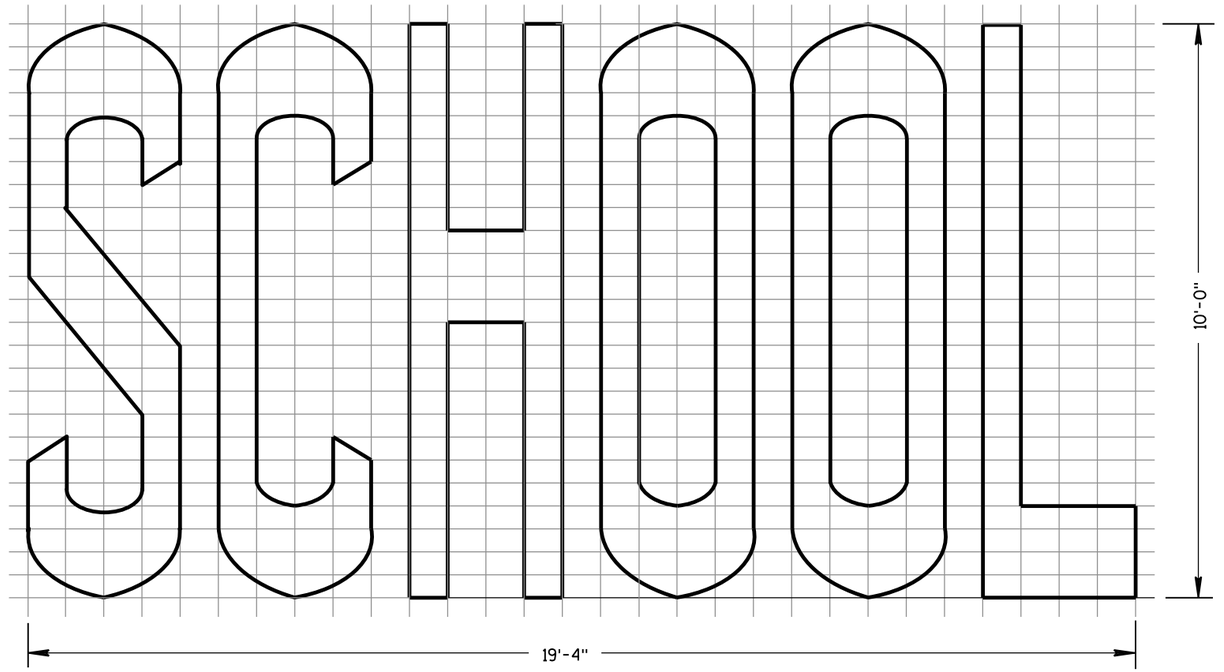
S.D.D. 15 C 3-5

GENERAL NOTES

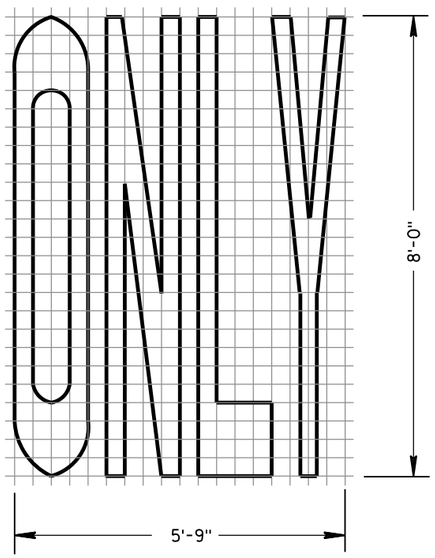
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

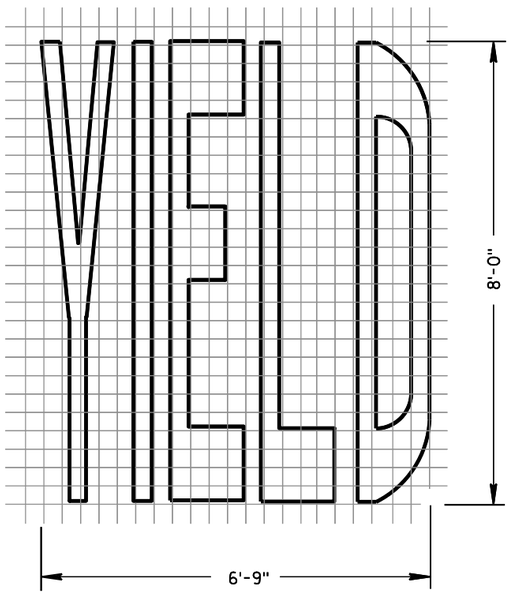


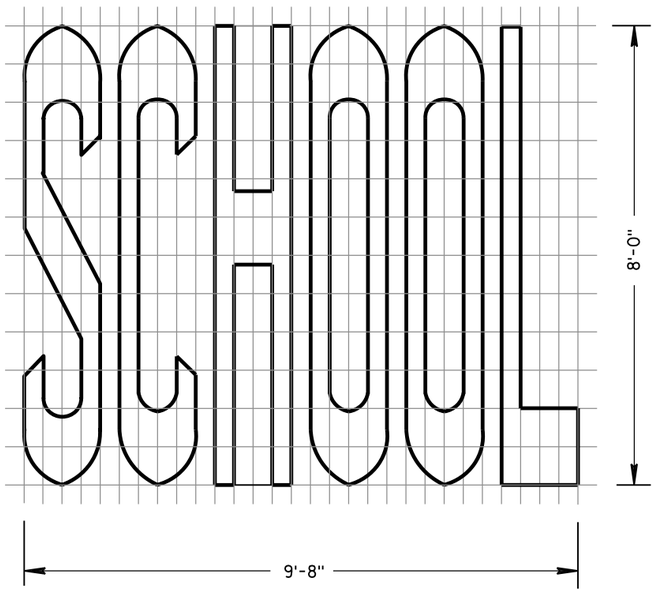




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARK
EER
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S.D.D. 15 C 7-14b

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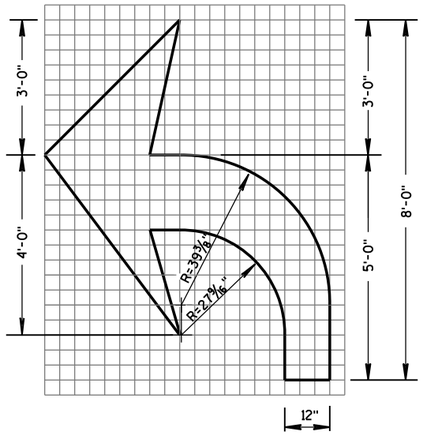
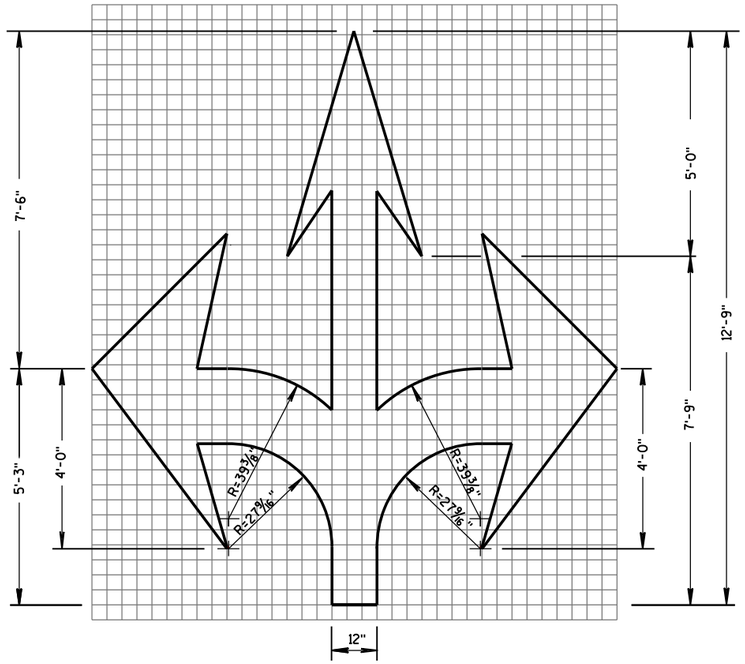
S.D.D. 15 C 7-14b

GENERAL NOTES

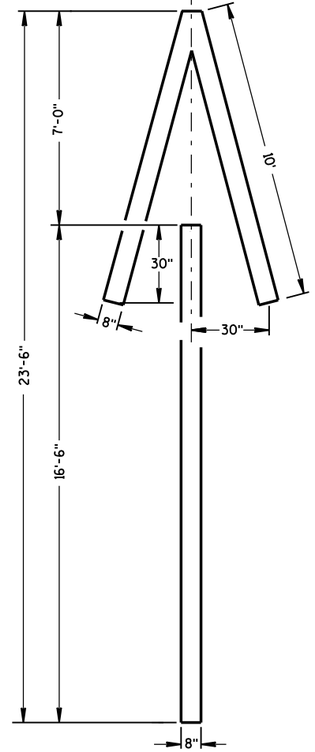
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



TYPE 2



TYPE 6



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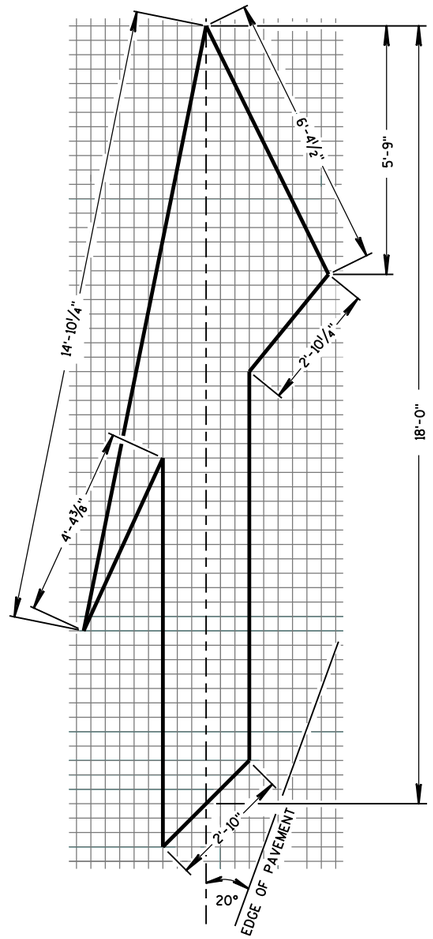
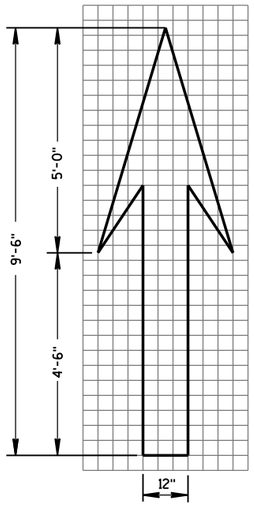
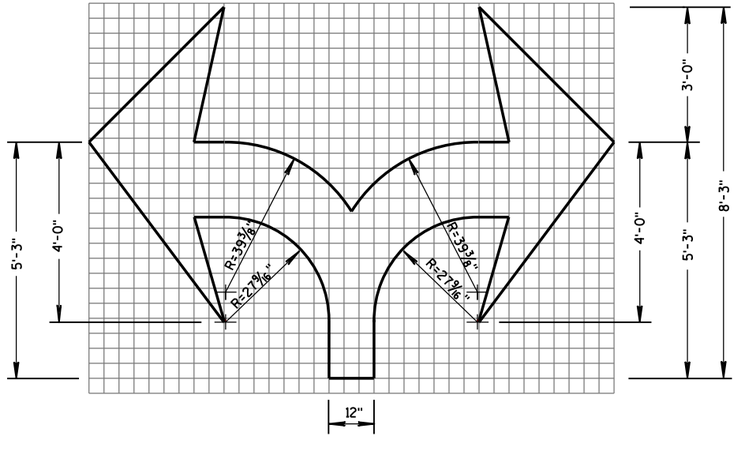


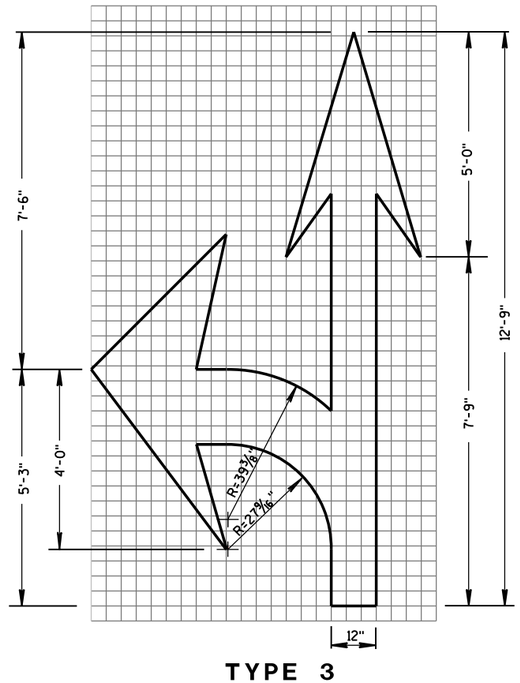
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

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S.D.D. 15 C 7-14c

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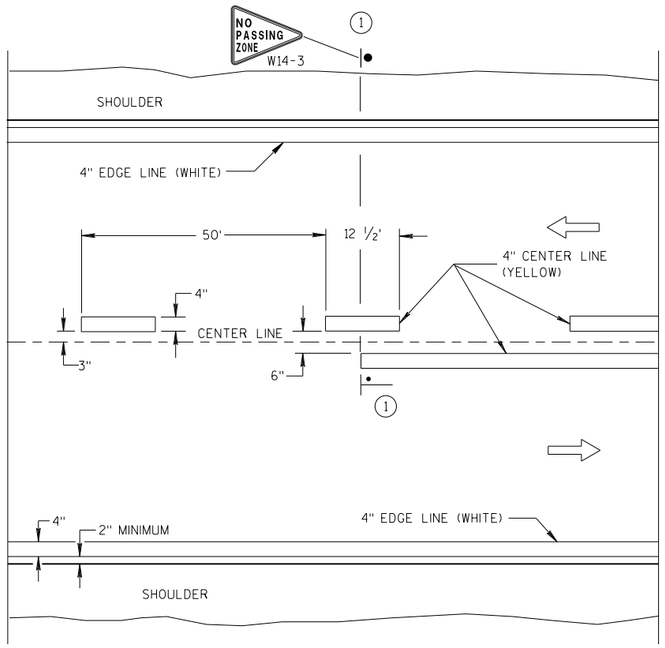
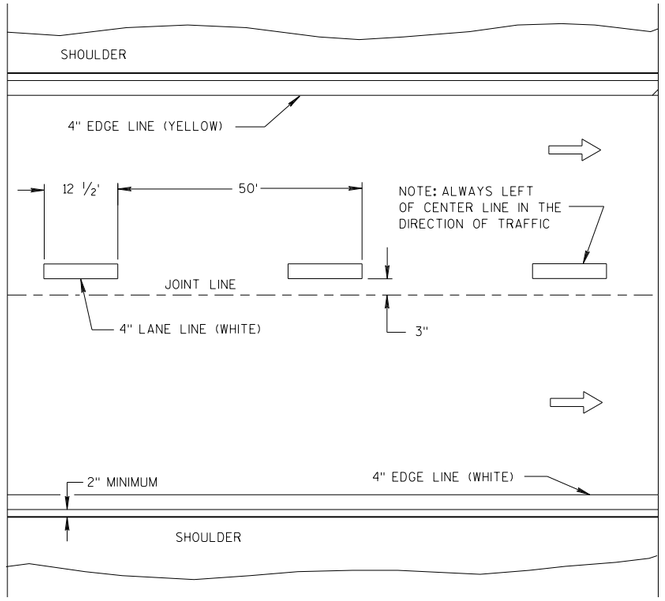
S.D.D. 15 C 7-14c



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

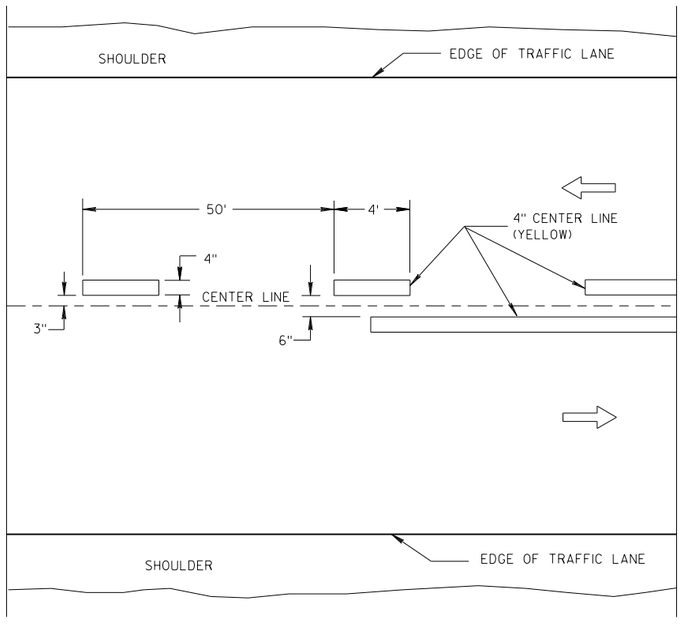
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

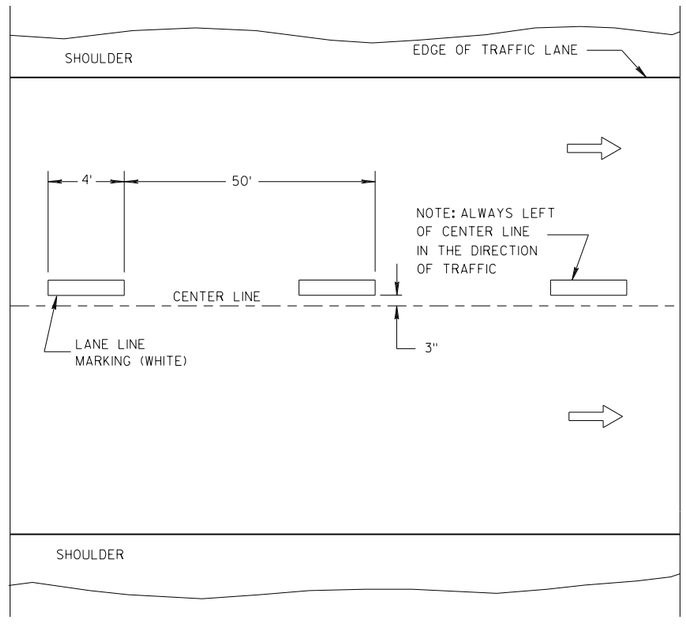
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER

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S.D.D. 15 C 8-19a

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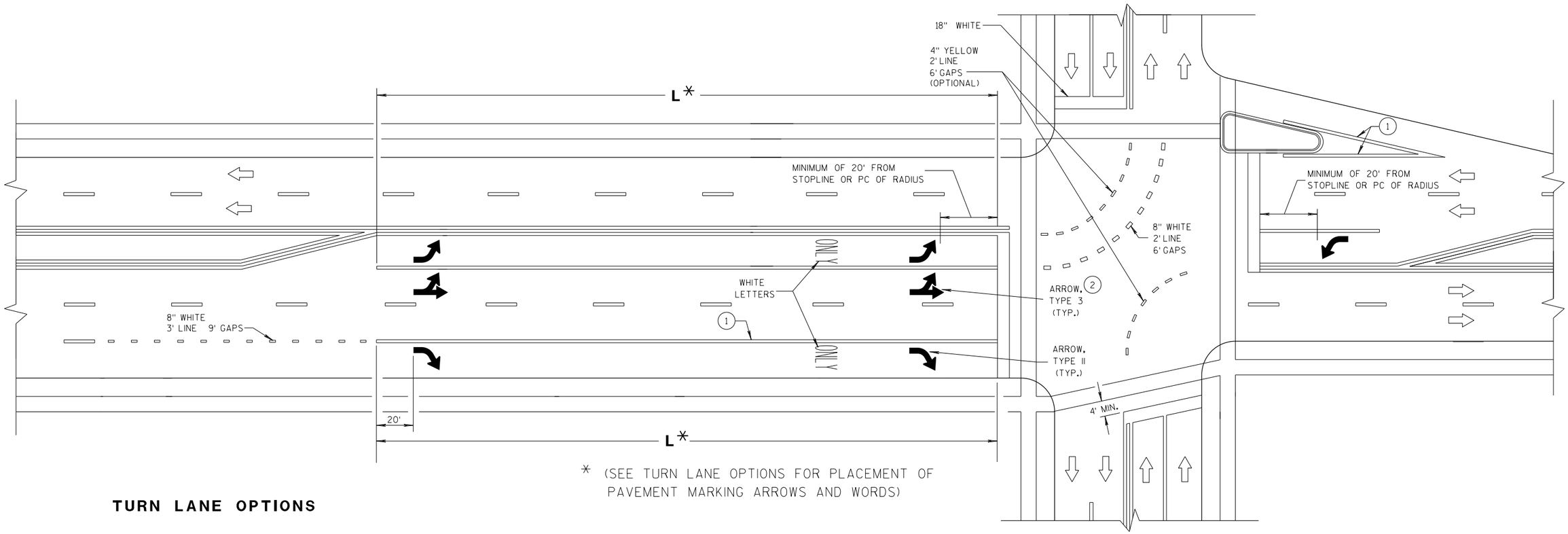
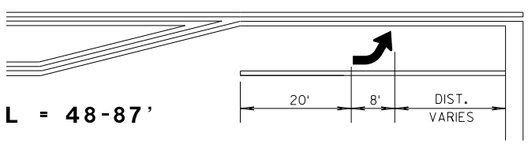
S.D.D. 15 C 8-19a



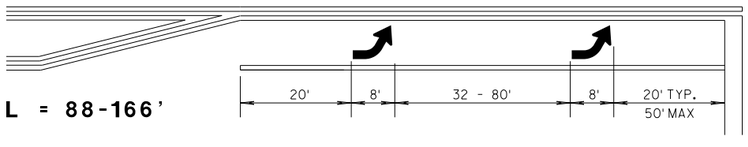
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

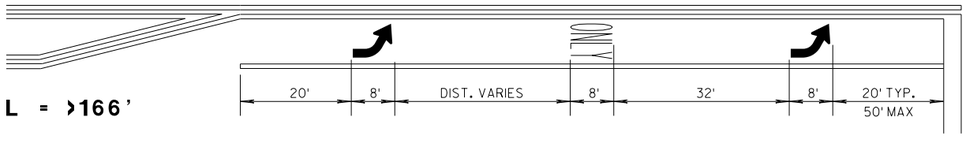
LENGTH OF TURN BAY (**L**) OF 0-47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48-87'



L = 88-166'



L = >166'

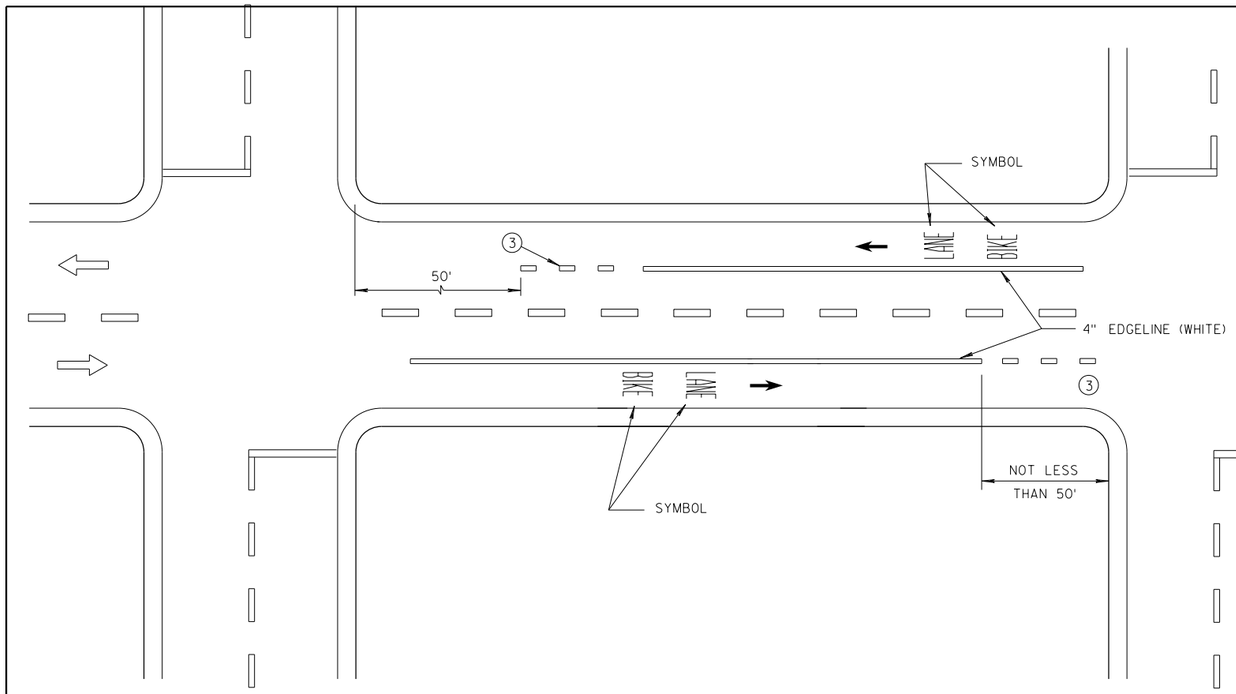
GENERAL NOTES

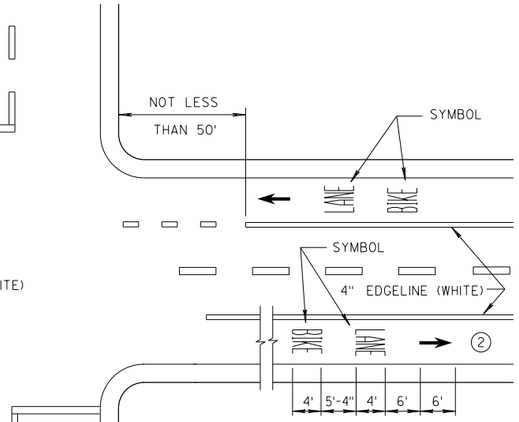
1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROW ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION, THE ARROWS AND ONLY MARKING ARE ELIMINATED.

⇨ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)



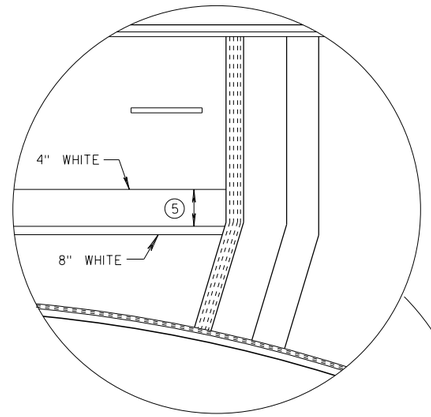


DESIGNATED BICYCLE LANE
NO PARKING

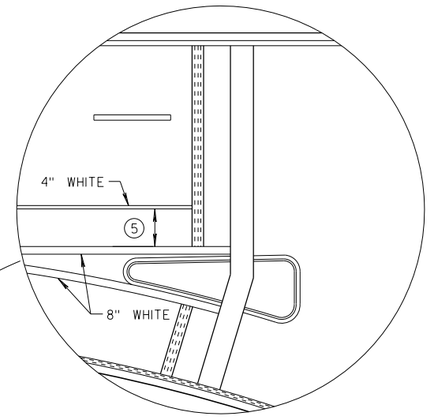
GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. BIKE ACCOMODATION IS TYPICALLY 5 FEET WIDE AND A MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT 45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FEET WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

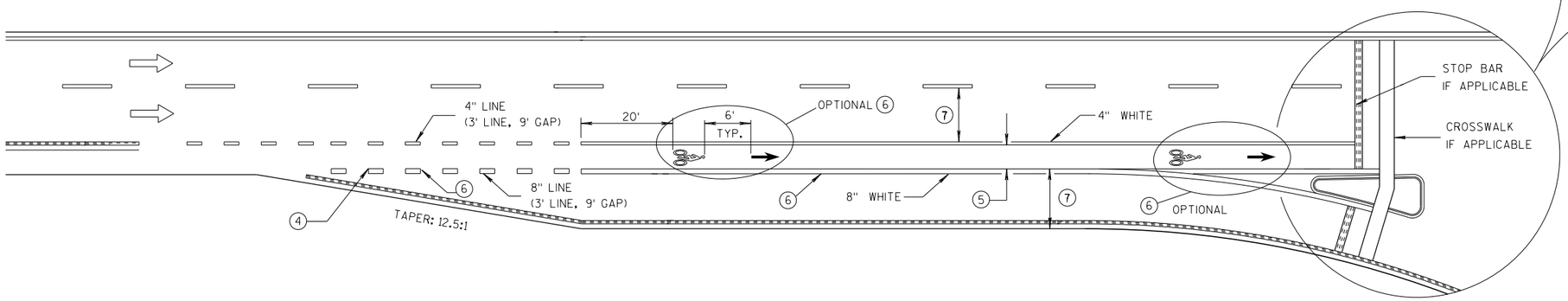
DIRECTION OF TRAVEL



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR 265 ...EER

FHWA

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S.D.D. 15 C 29-6a

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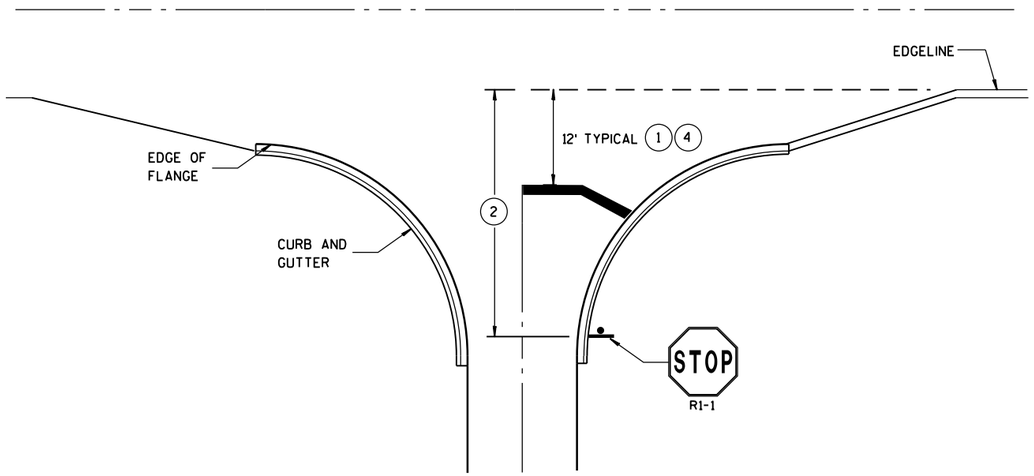
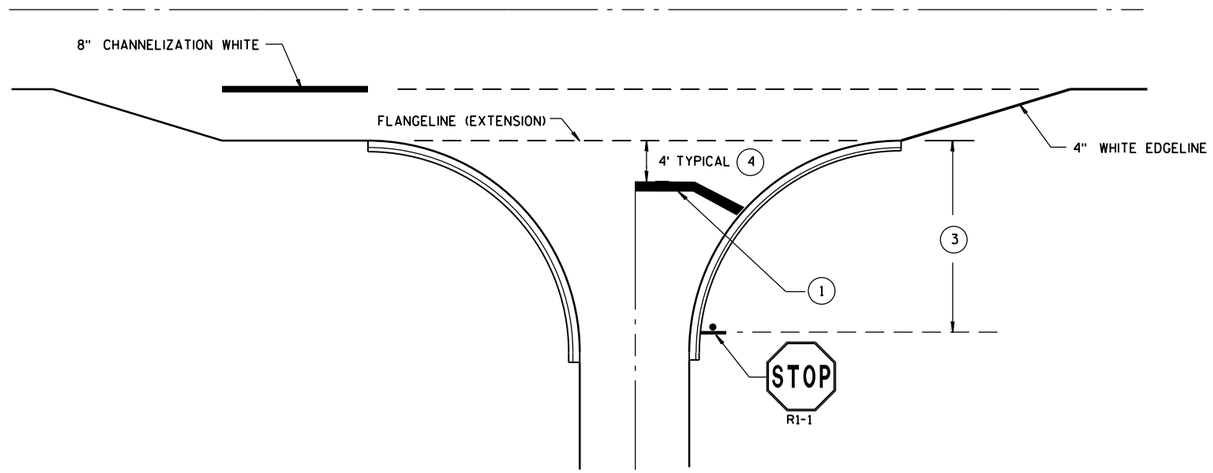
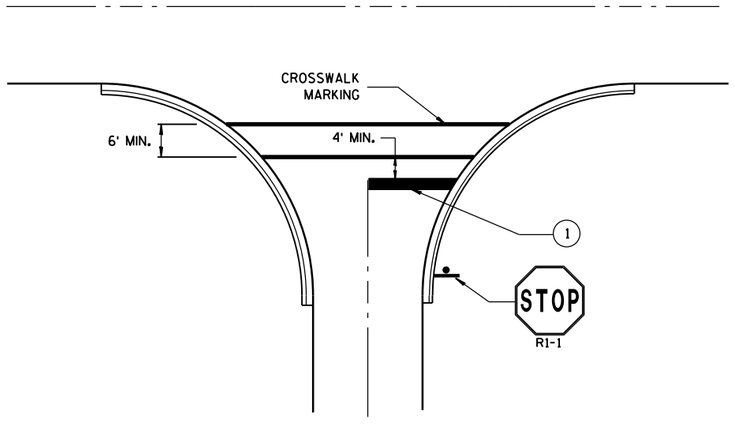
S.D.D. 15 C 29-6a



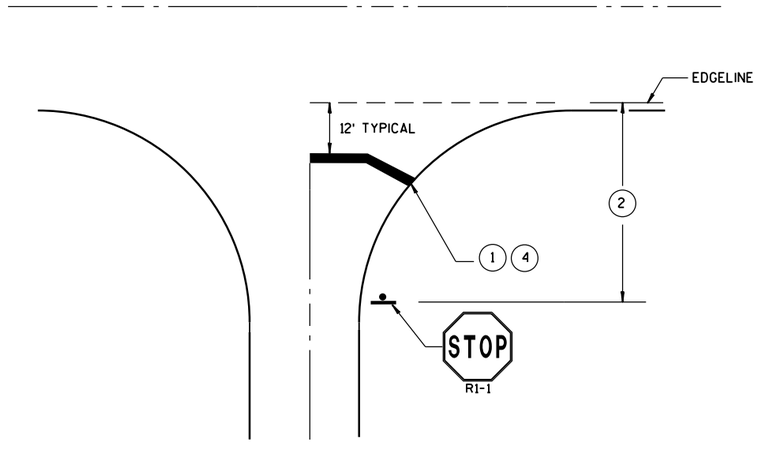
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

(1) 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

(2) IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.

(3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.

(4) MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]NEER

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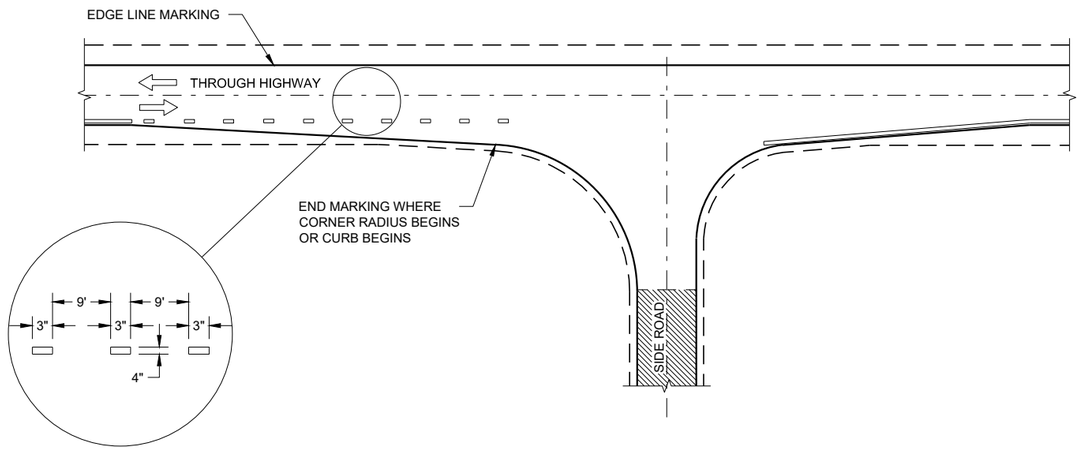
S.D.D. 15 C 33-3



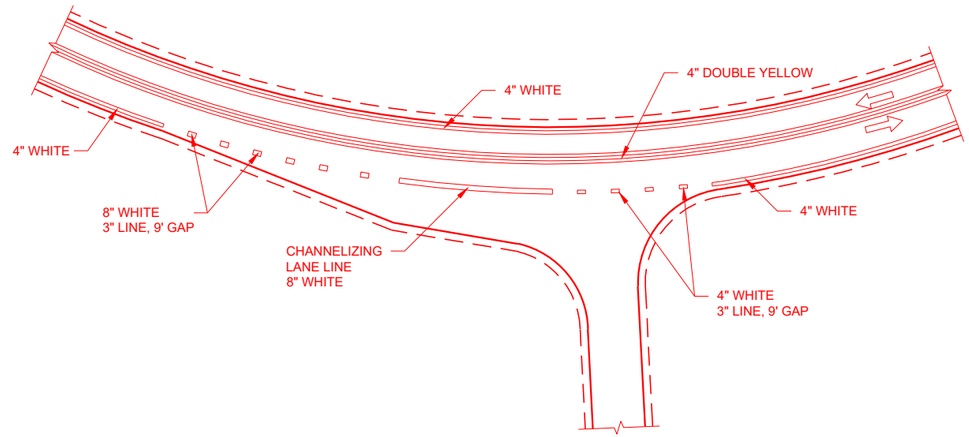
MINOR INTERSECTION

GENERAL NOTES

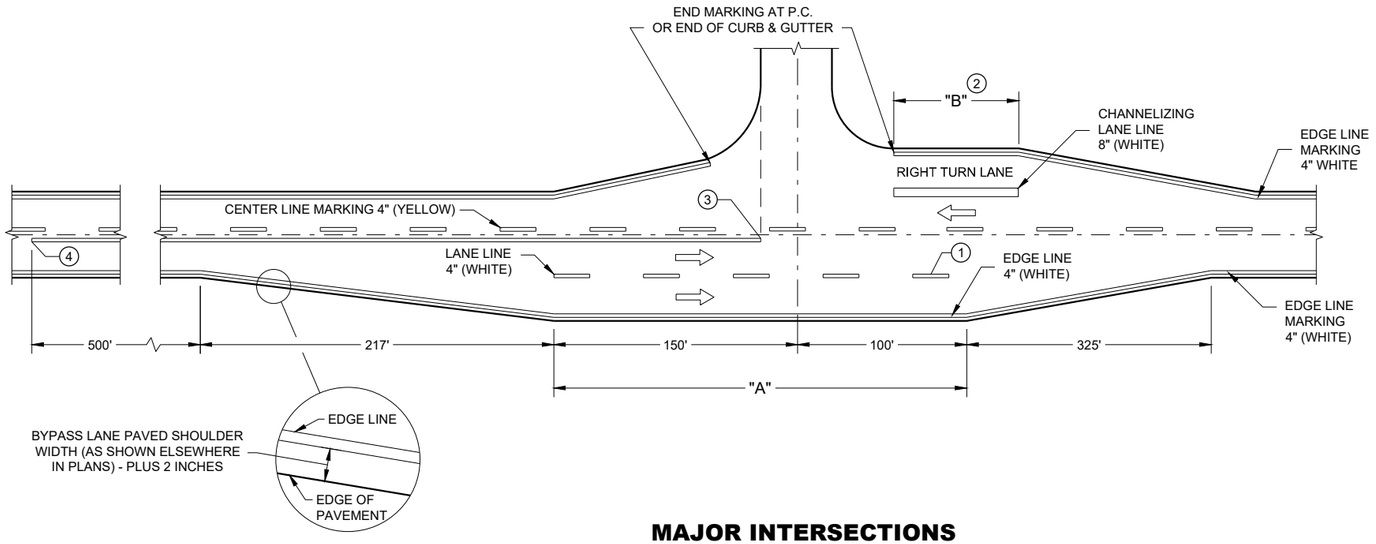
OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

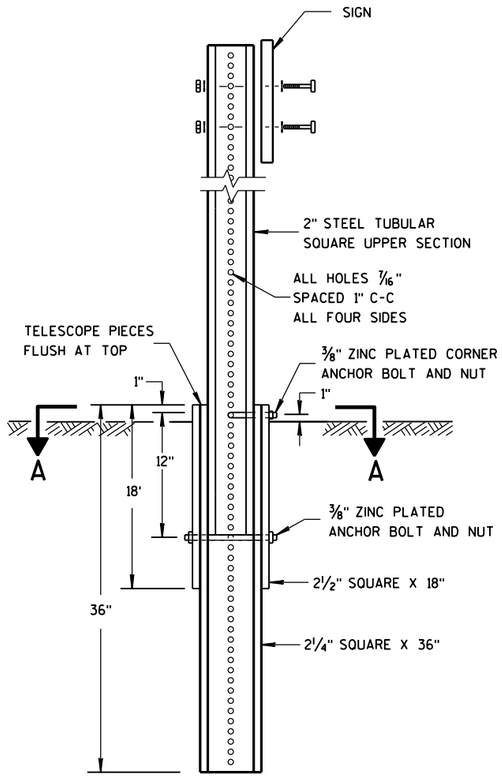
PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

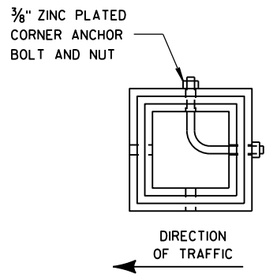
SDD 15C35 - 03a

6

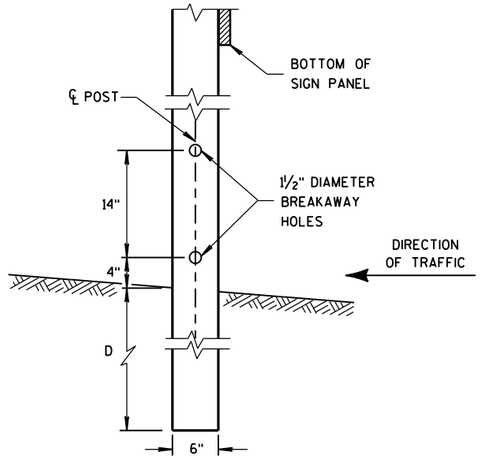
SDD 15C35 - 03a



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



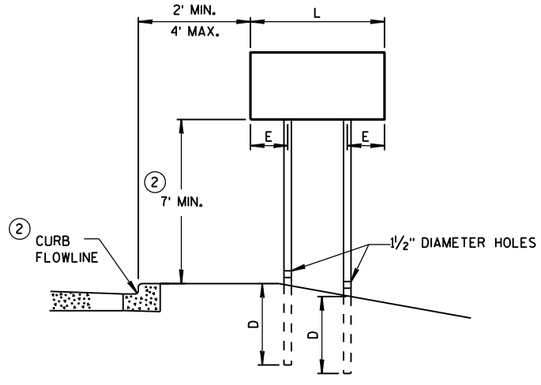
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

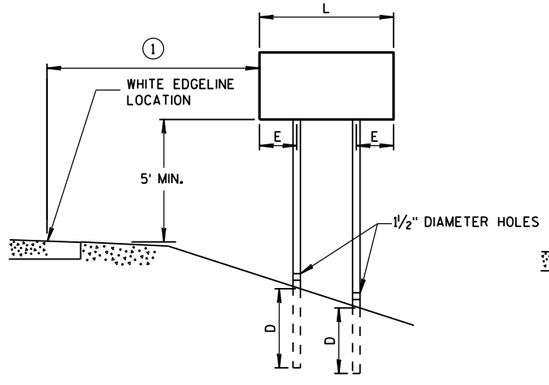
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

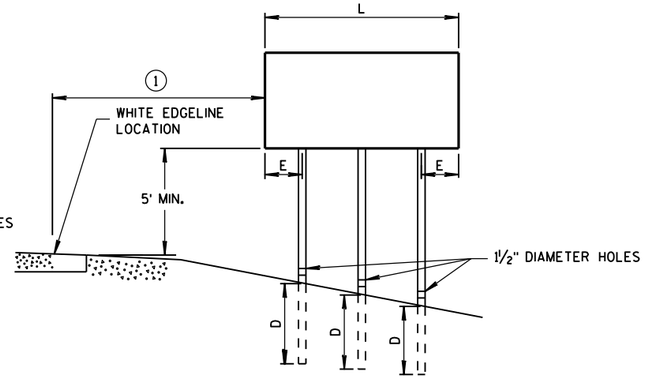
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

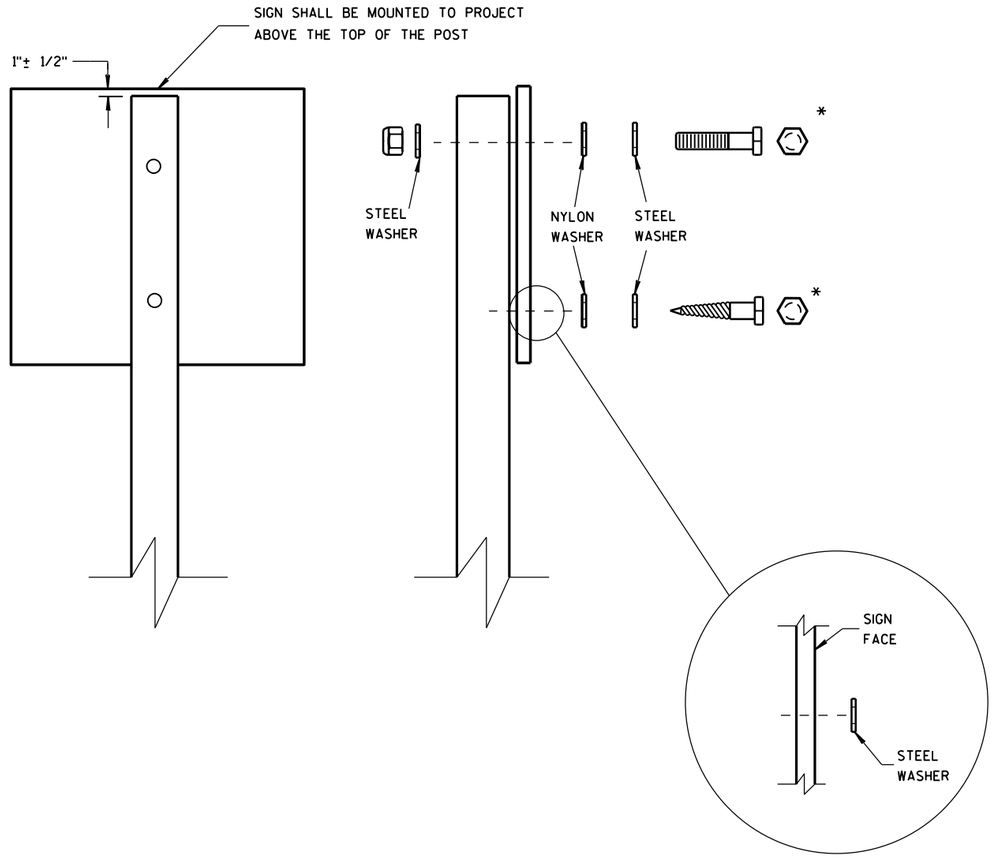
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-2a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

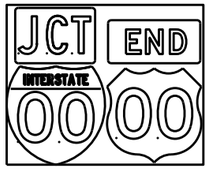
June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

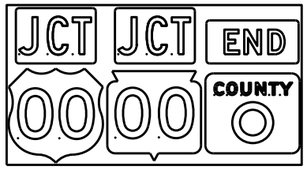
FHWA

TYPICAL ASSEMBLIES

J1-1

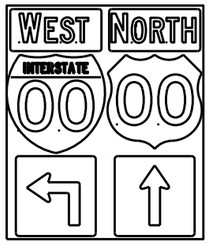


J1-2

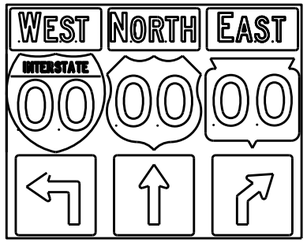


J1-3

J2-1



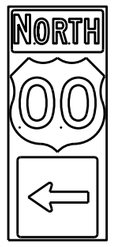
J2-2



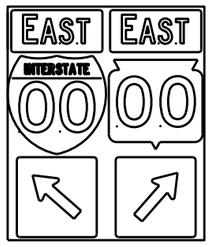
J2-3

JV

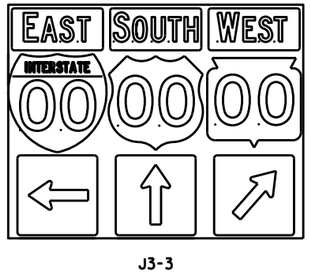
(Typical Vertical J-Assembly
See Note 10 and 11)



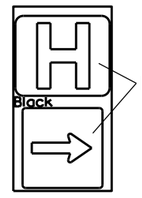
J3-1



J3-2

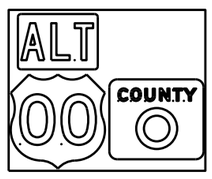


J3-3

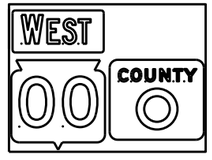


JH-1

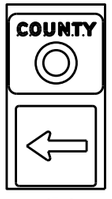
J4-1



J4-2



J4-2



J13-1

J12-1

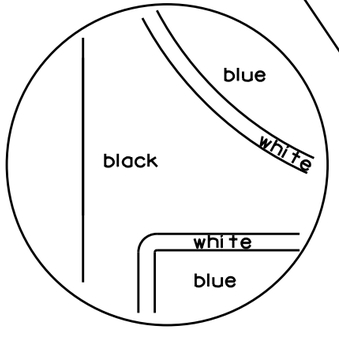
J32-1

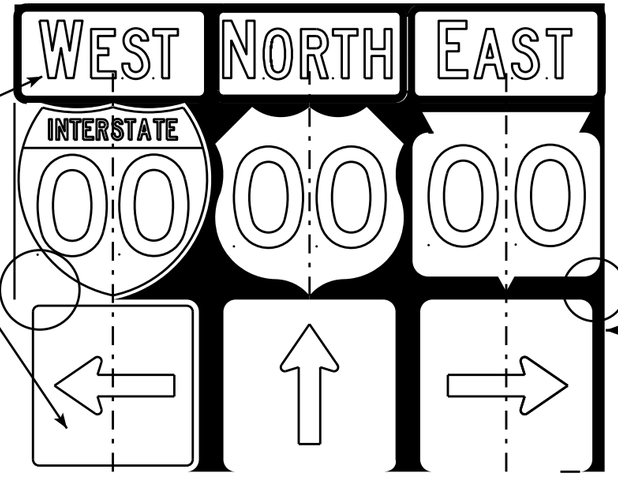
J33-1

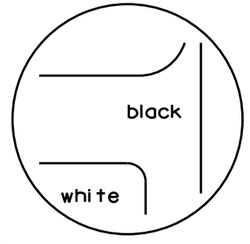
J23-1

J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

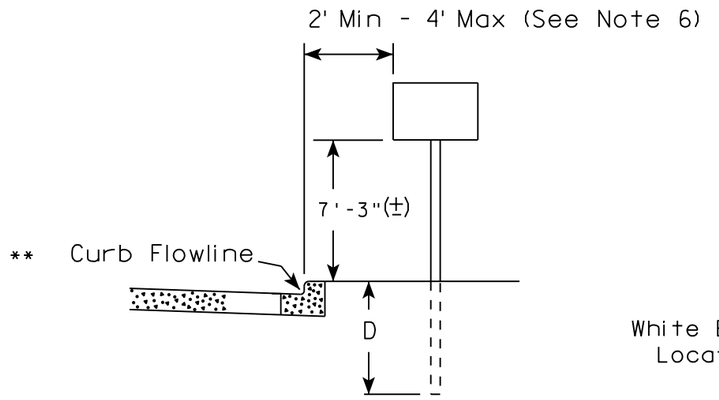
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/06/14 PL... A2-1S.8

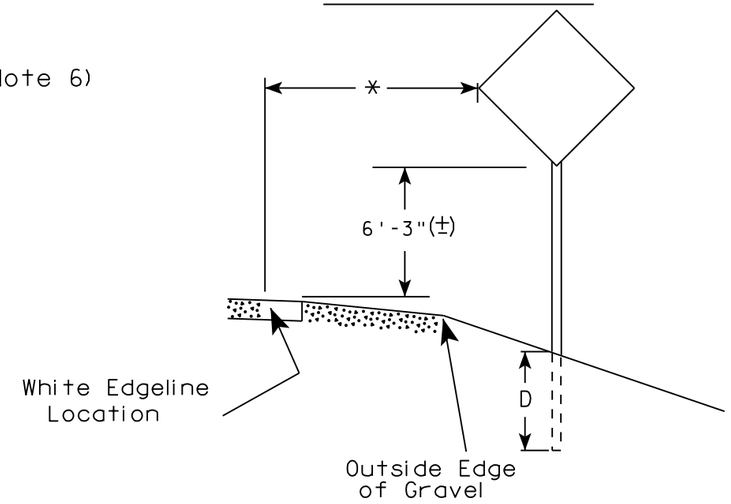
PROJECT NO: | SHEET NO: E

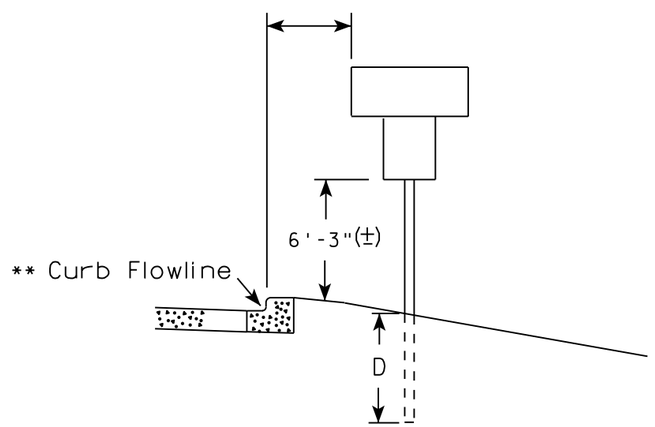
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :
WISDOT/CADDS SHEET 42

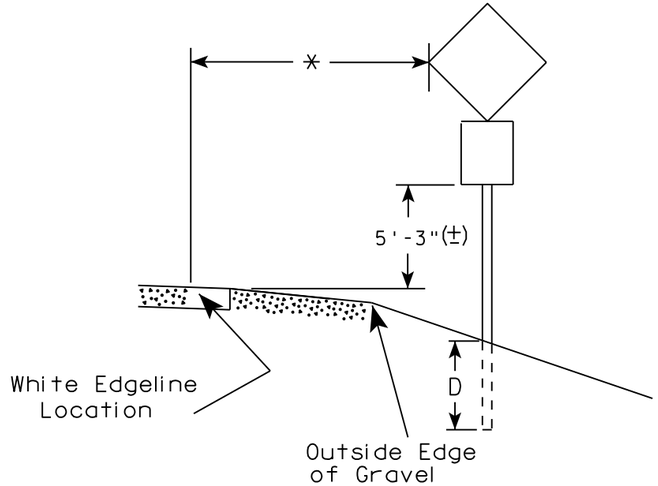
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

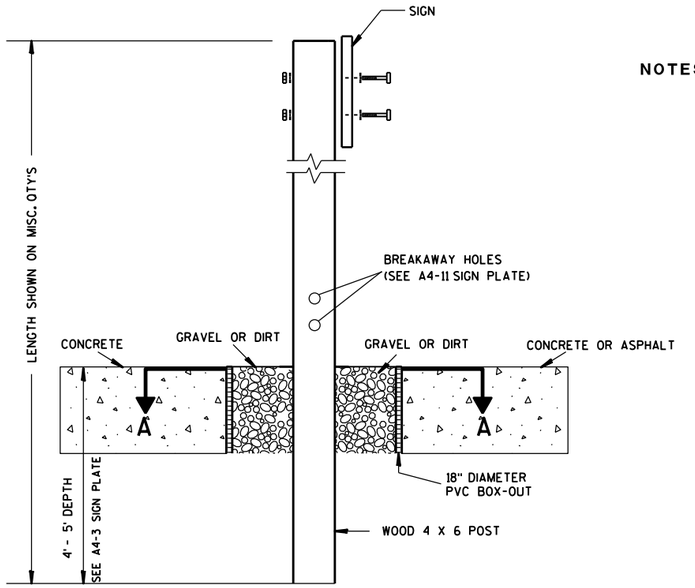
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

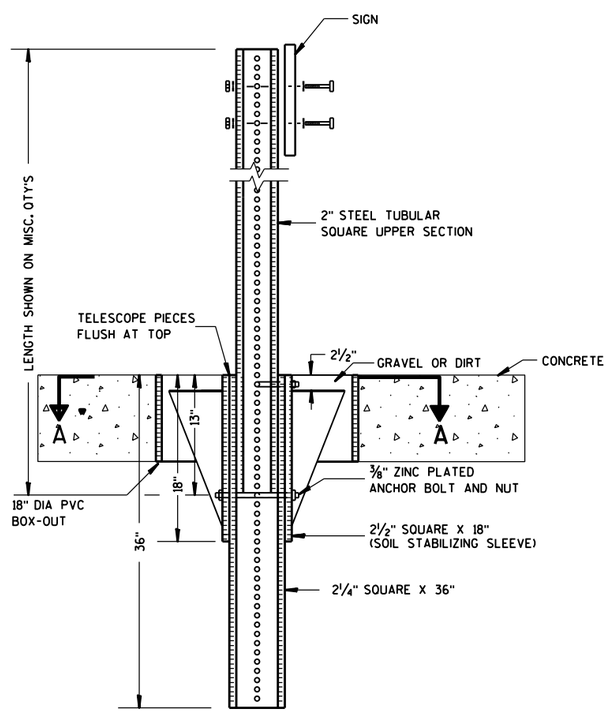
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 271	E



ELEVATION VIEW

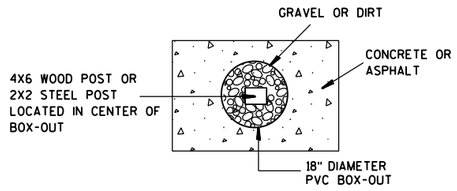
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

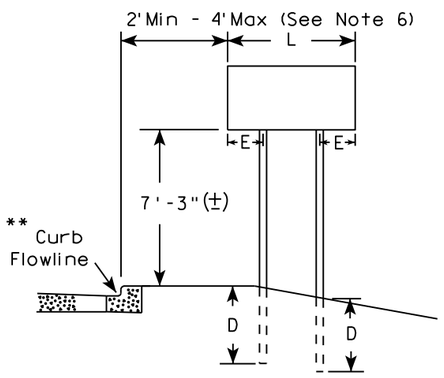
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

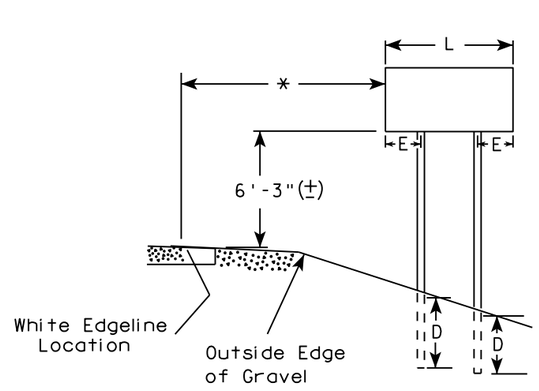
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

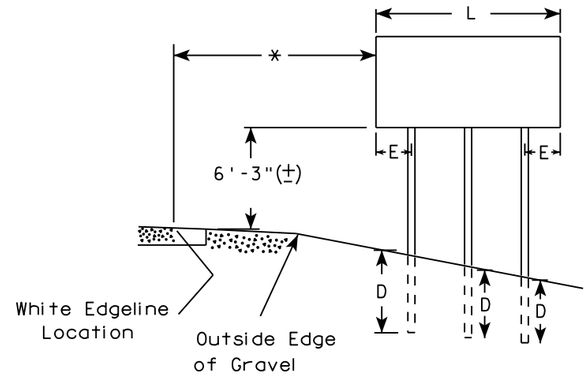
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

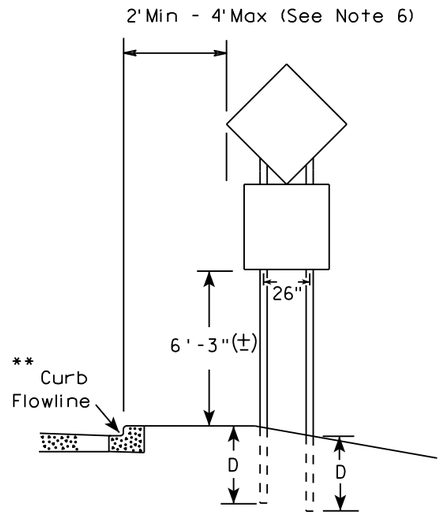
URBAN AREA



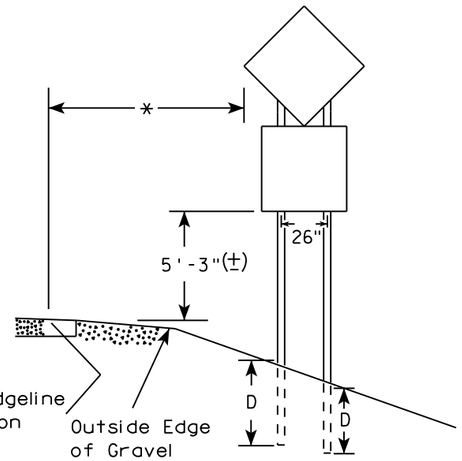
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

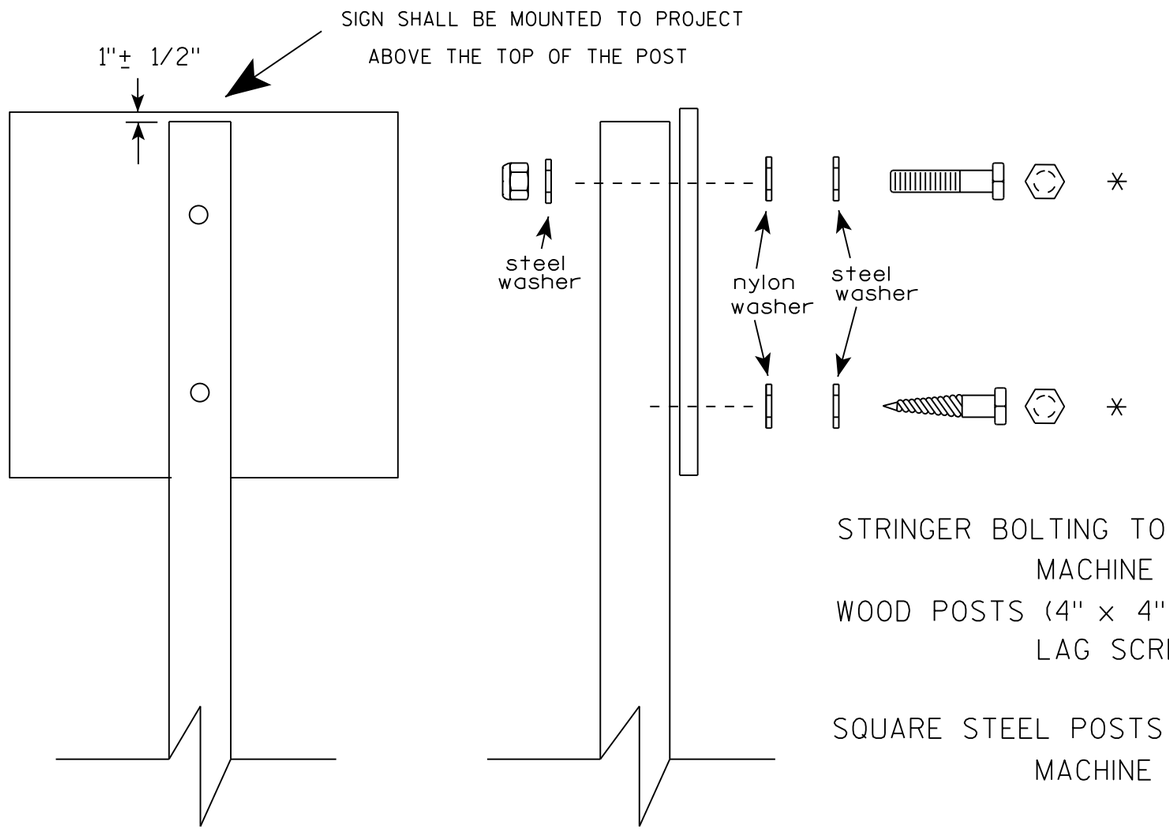
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 273	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)

3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)

3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

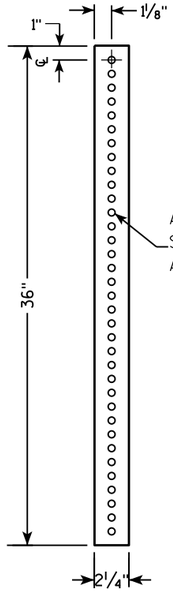
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

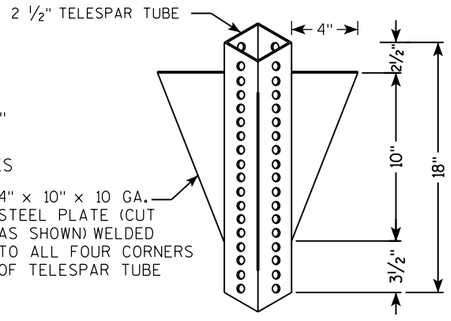
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

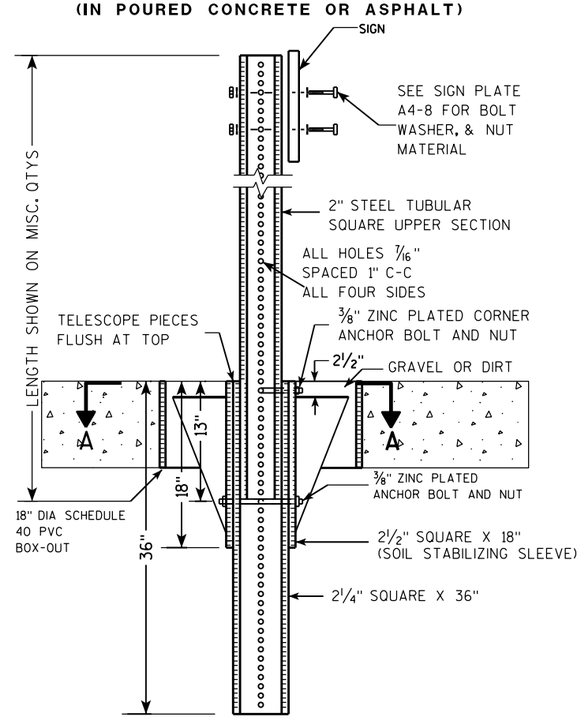
2 ¼ " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



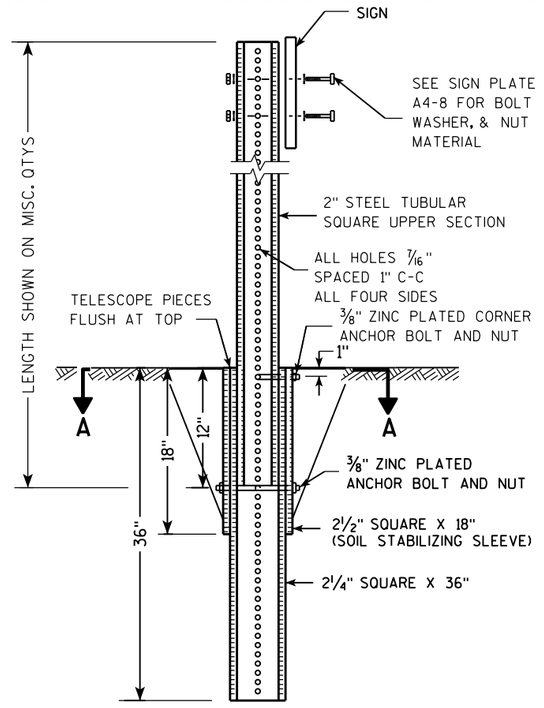
2 ½ " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

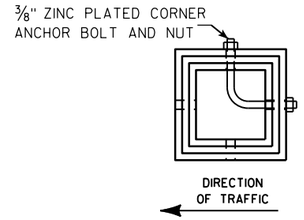


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

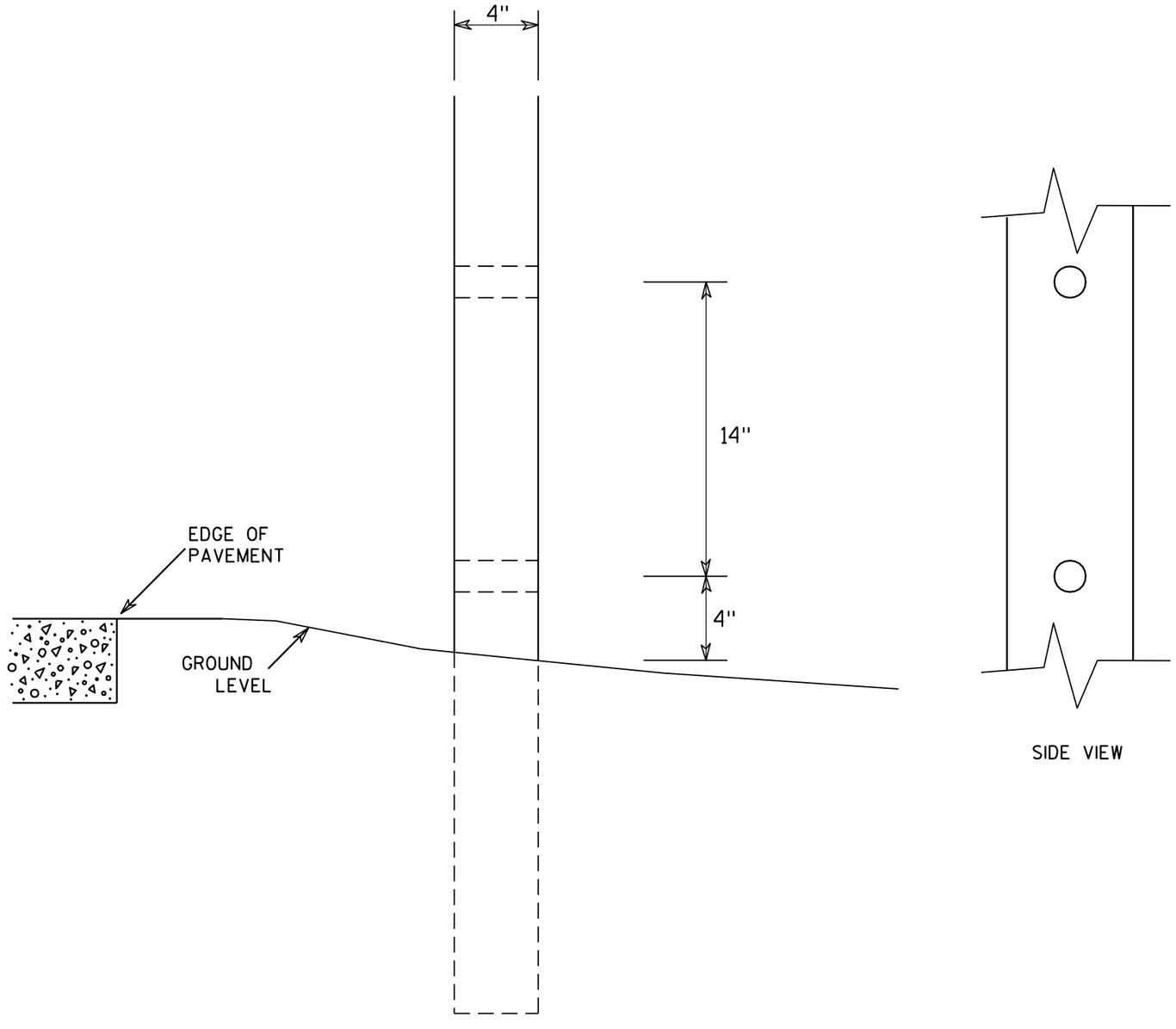
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 275 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

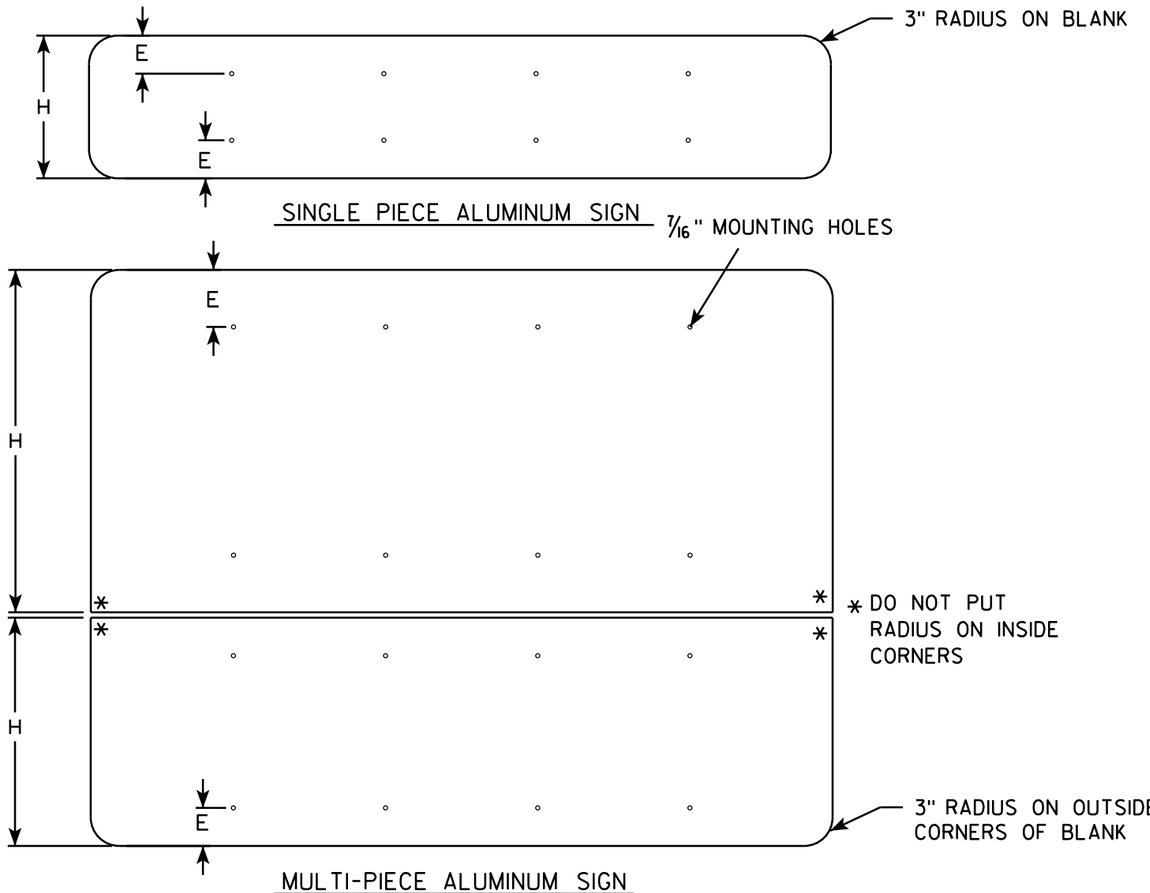
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

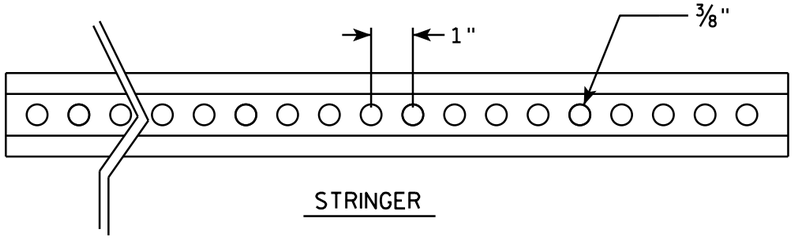
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 276	E



GENERAL NOTES

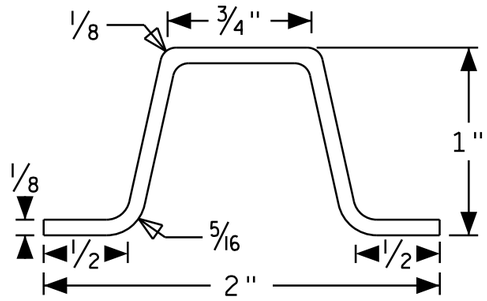
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

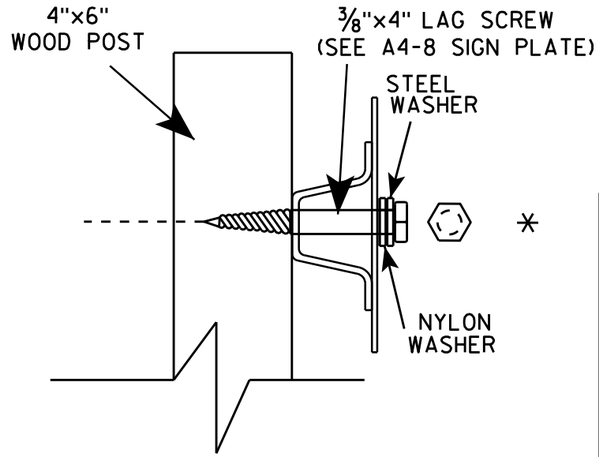


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

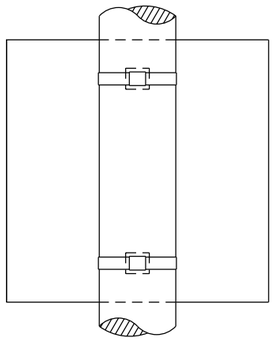
DATE 4/26/16 PLATE NO A4-18.1

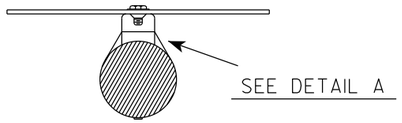
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

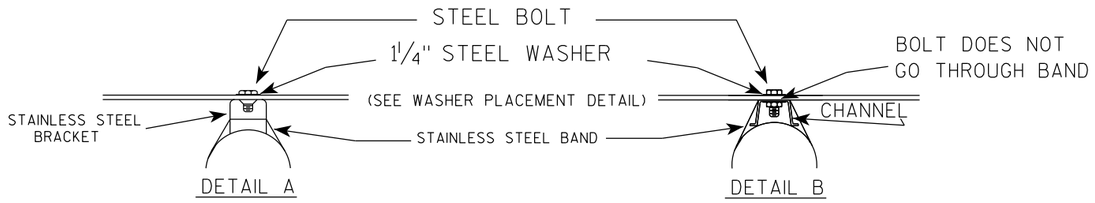
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

BANDING

SINGLE SIGN



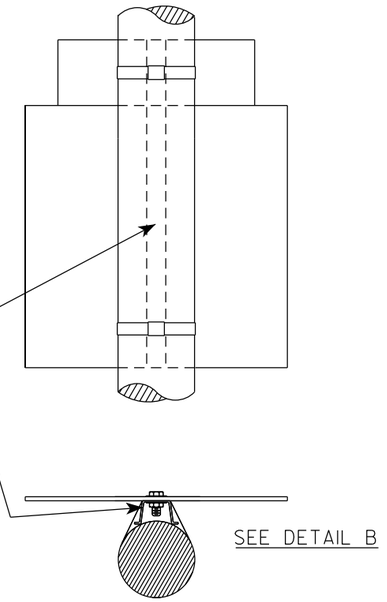




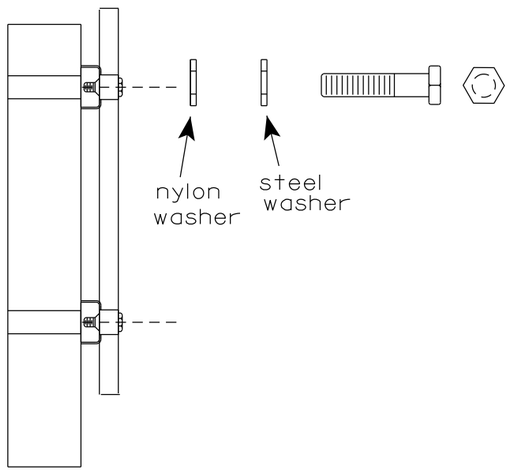
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

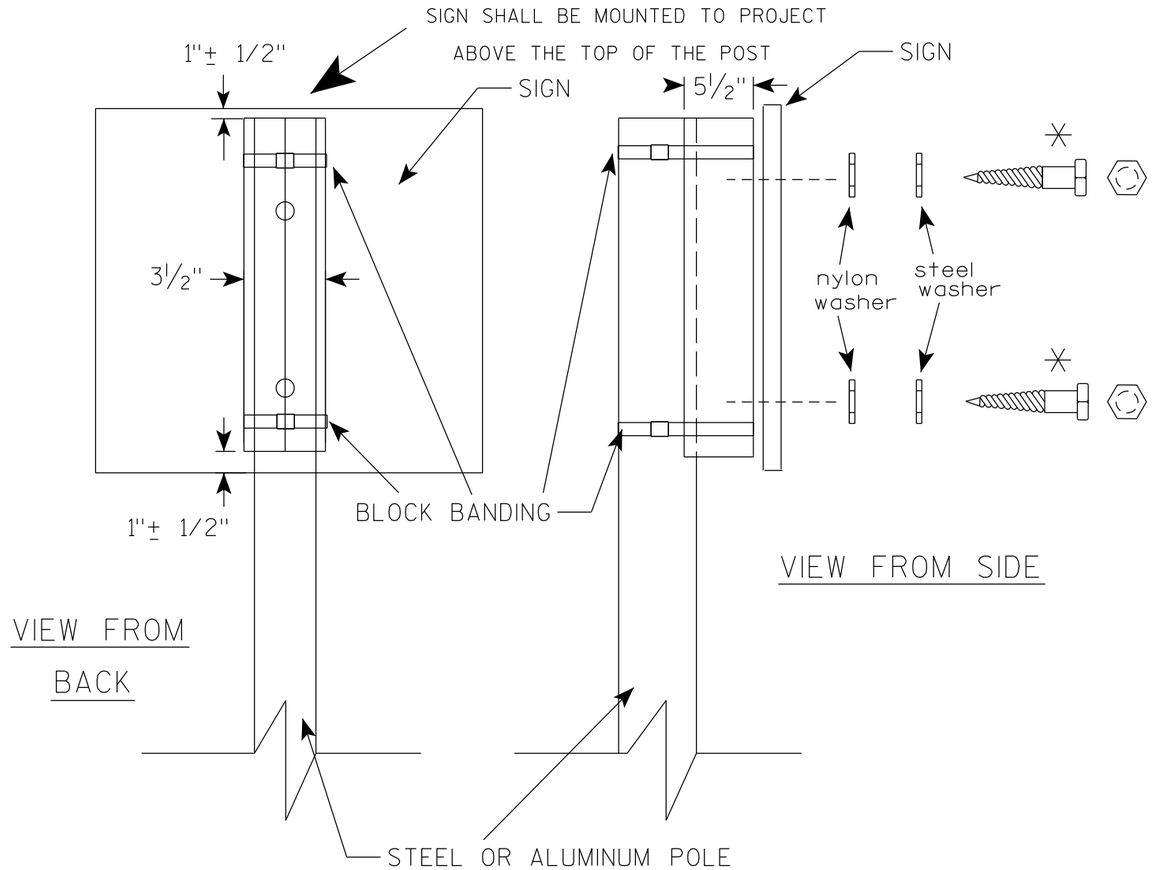
WISCONSIN DEPT OF TRANSPORTATION

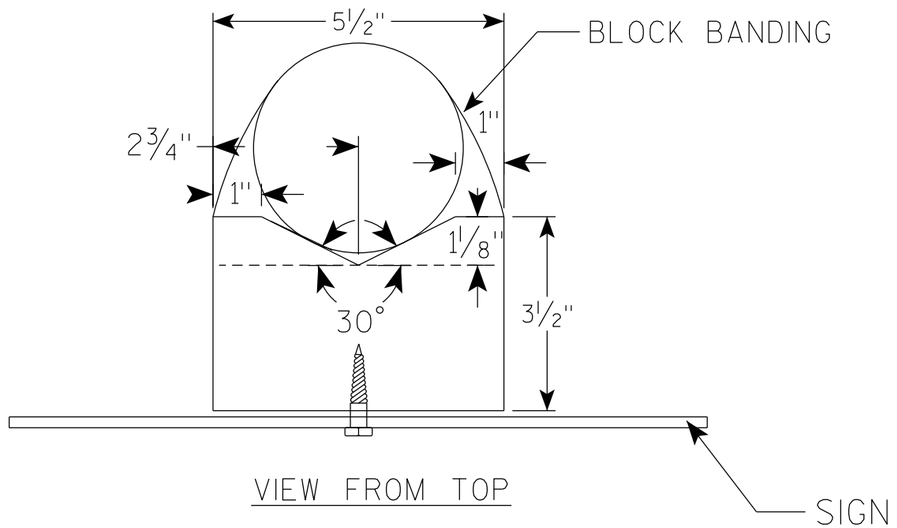
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-9.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 278	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

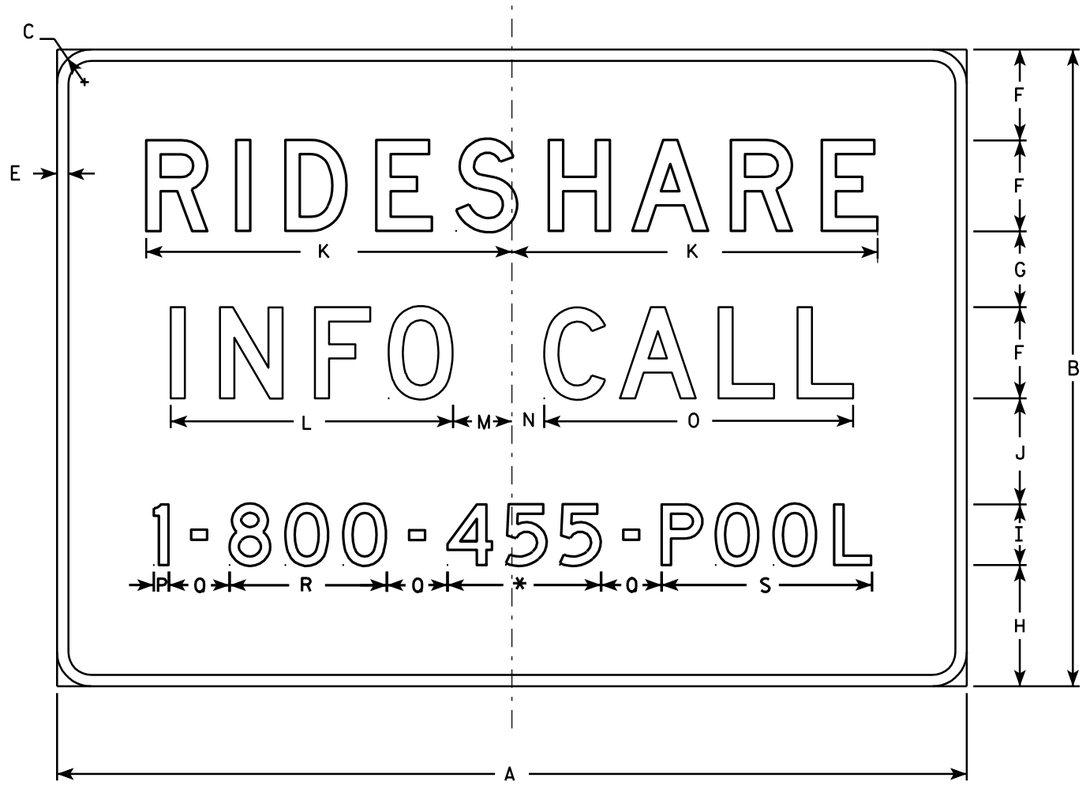
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO:				SHEET NO: 279	E



D12-2A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Blue
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and adjust spacing as required to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	1200 mm X 525 mm
2	1500 mm X 1050 mm
3	
4	1500 mm X 1050 mm
5	1950 mm X 1350 mm

* Variable (See note 5)

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	48	21	1 1/2		1/2	3	2 3/4	3 1/2	3	2 3/4	12 1/8	9 3/8	2	1 1/8	10 1/4	3/4	3	7 3/4	10 5/8								7.0	0.63
2	60	42	2 1/4		3/4	6	5	8	4	7	24 1/8	18 5/8	3 7/8	2 1/8	20 1/8	1	4	10 3/8	13 7/8								17.5	1.58
3																												
4	60	42	2 1/4		3/4	6	5	8	4	7	24 1/8	18 5/8	3 7/8	2 1/8	20 1/8	1	4	10 3/8	13 7/8								17.5	1.58
5	78	54	3		1	8	6	10	6	8	30 7/8	23 5/8	4 7/8	2 1/8	26 3/8	1 1/2	5	15 1/2	21 1/4								29.25	2.63

STANDARD SIGN
D12-2A

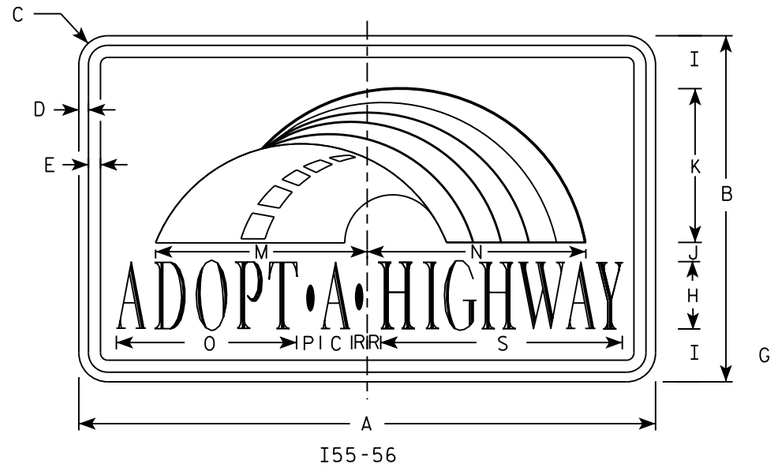
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spay for State Traffic Engineer

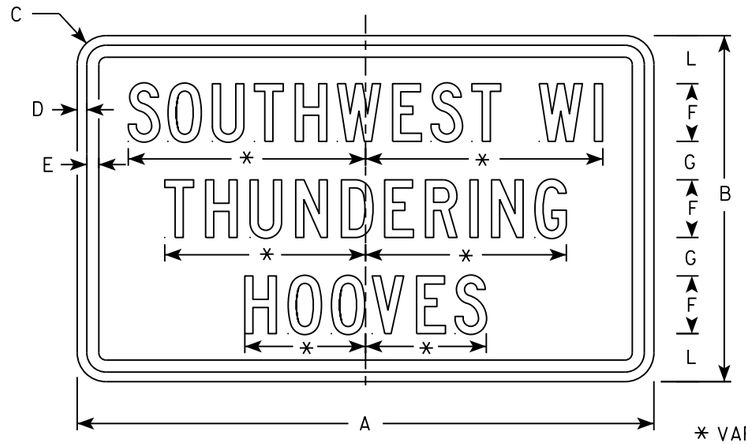
DATE 1/16/02 PLATE NO. D12-2A.3

PROJECT NO:

SHEET NO: 280 E



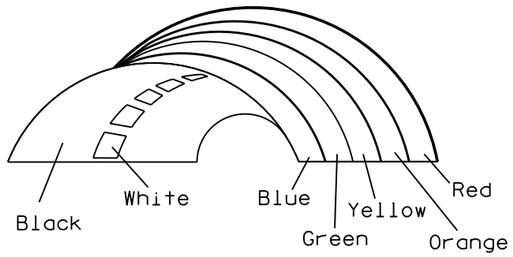
I55-56



I55-56P

* VARIES

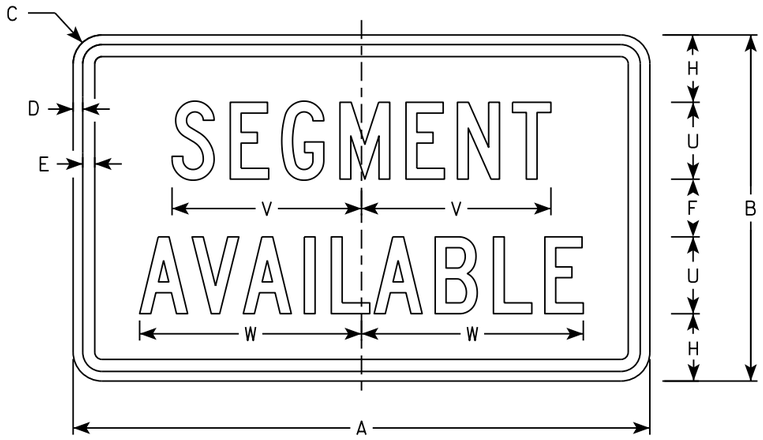
Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - (See Note 4)
3. Message Series - (See Note 5)
4. Border - Blue
   Adopt a Highway - Red
   All other Text - Blue
5. Adopt a Highway - Dutch 8011L
   All other Text - Series C
6. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.



I55-56S

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	18	1 1/2	1/2	5/8	3	2	3 1/2	2 3/4	1	8	2 1/2	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2	4	9 7/8	11 1/2				3.75
3																											
4																											
5																											

STANDARD SIGN
I55-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/20/18 PLATE NO. I55-56.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 281 | E

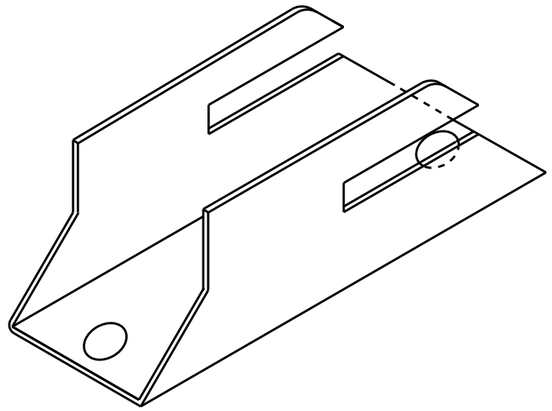
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\I5556.DGN PLOT DATE : 20-FEB-2018 16:54 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 7.880043:1.000000

WISDOT/CADDS SHEET 42

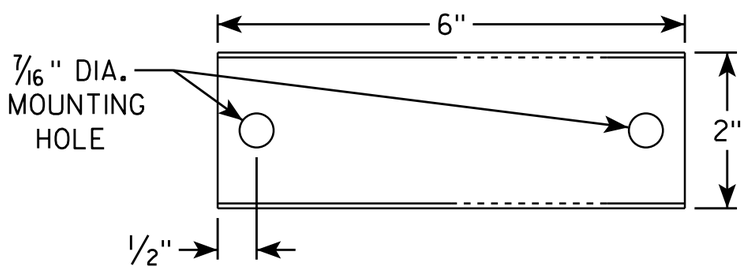
7

7

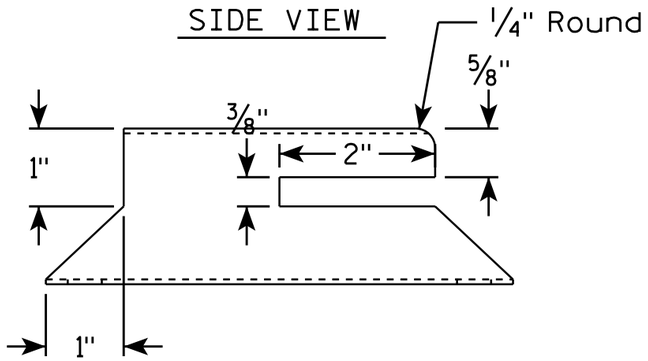
ISOMETRIC VIEW



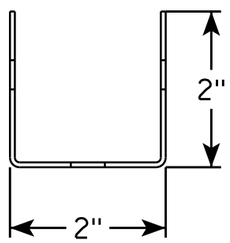
TOP VIEW



SIDE VIEW



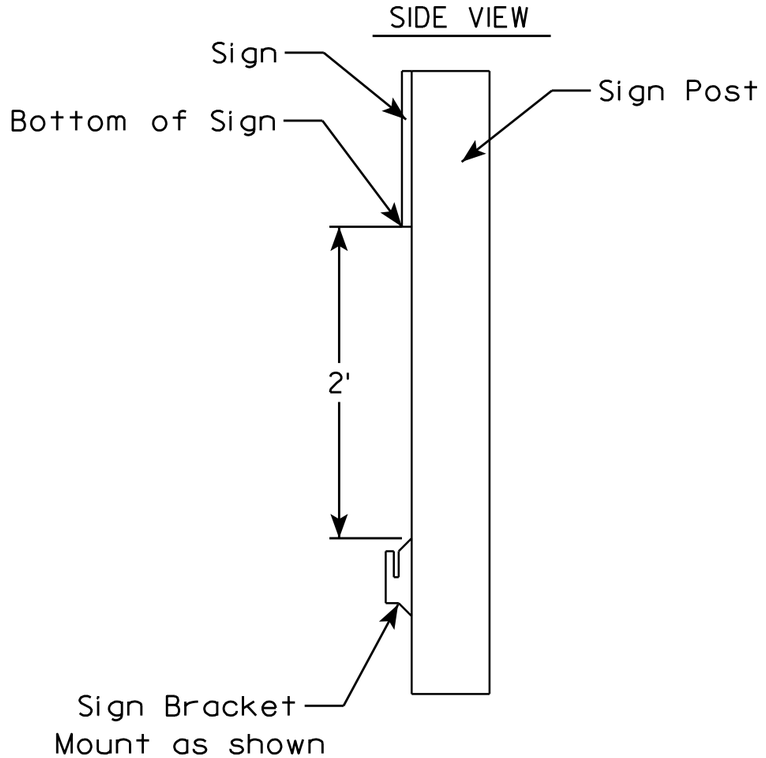
END VIEW



NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/26/16 PLATE I55-56B.2

7

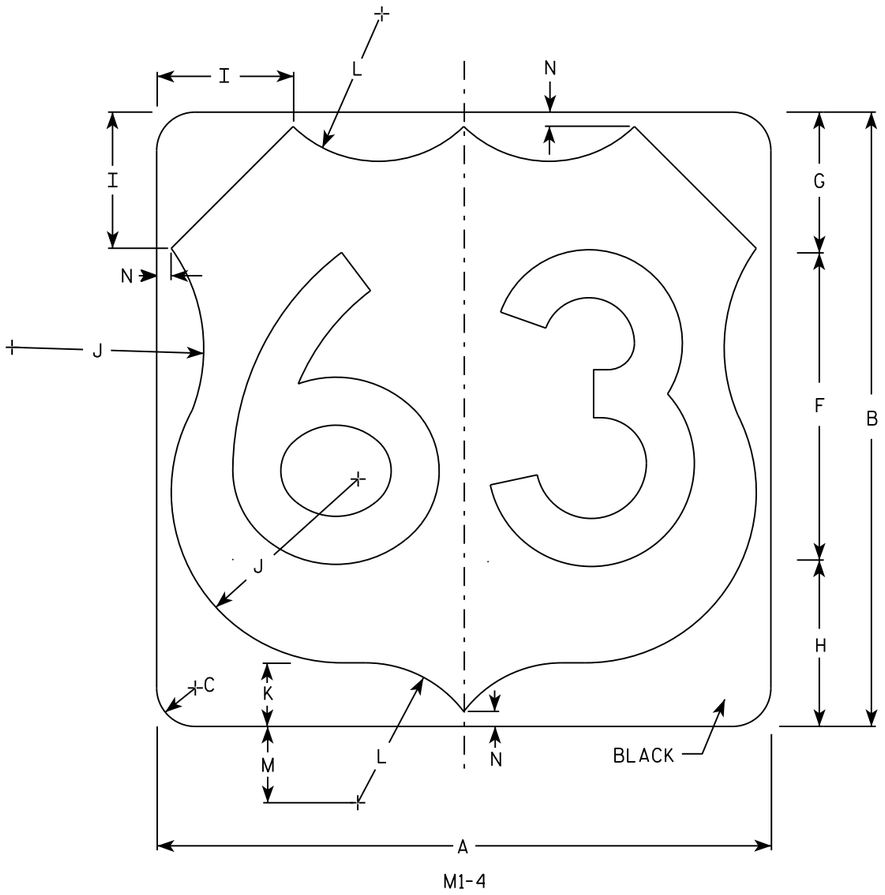
7

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

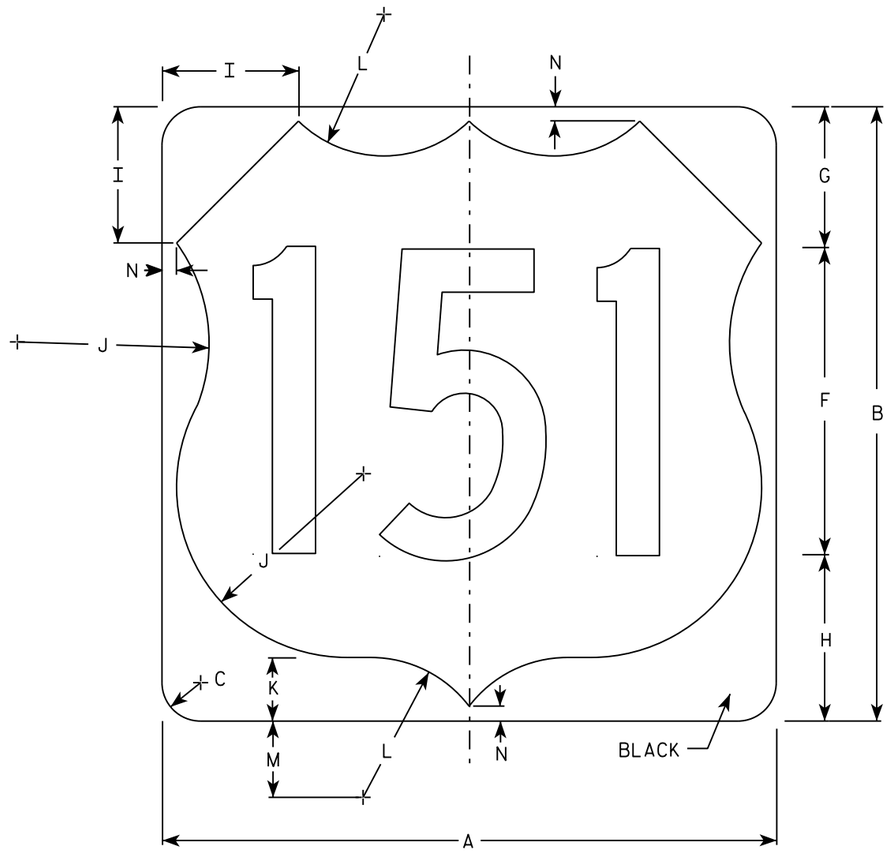
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\I5556B.DGN PLOT DATE : 26-APR-2016 17:29 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.945842:1.000000
WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



M1-4



M1-4

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area Sq. ft.
1																											
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0

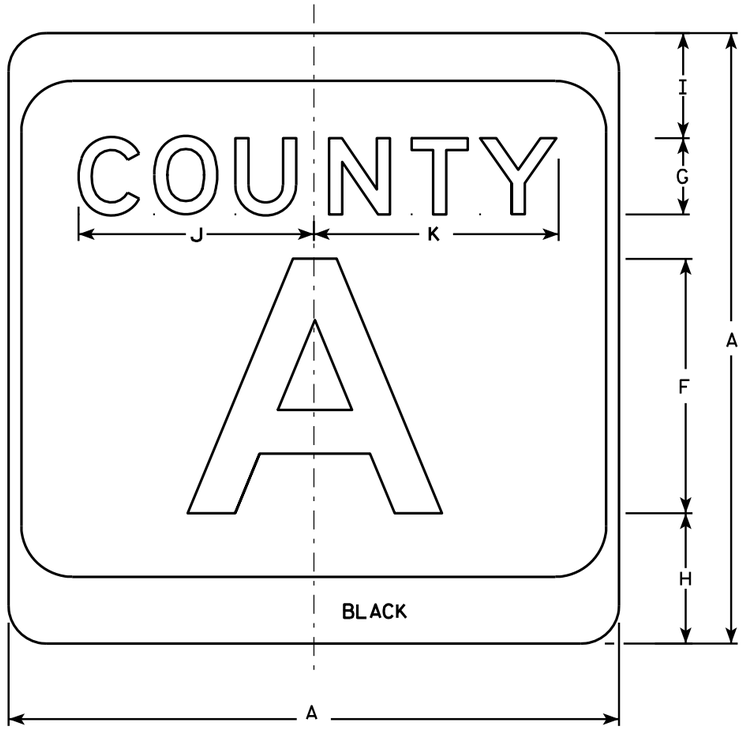
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

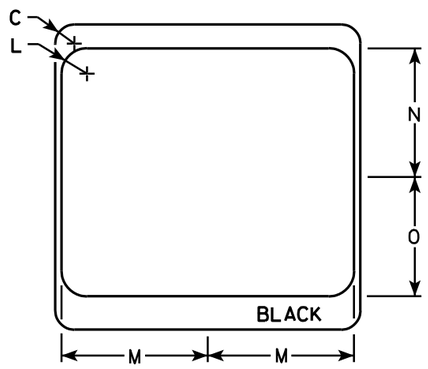
APPROVED Matthew R Rauch
for State Traffic Engineer

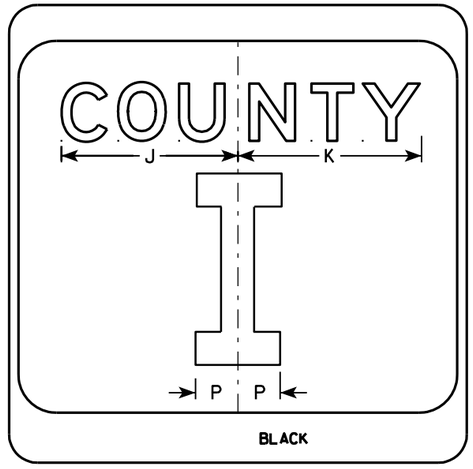
DATE 3/16/18 PLATE NO. M1-4.10

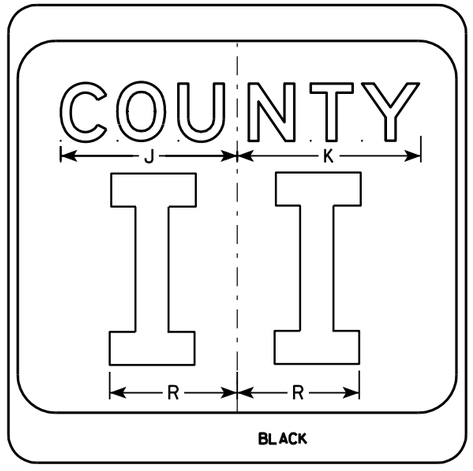
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 283	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

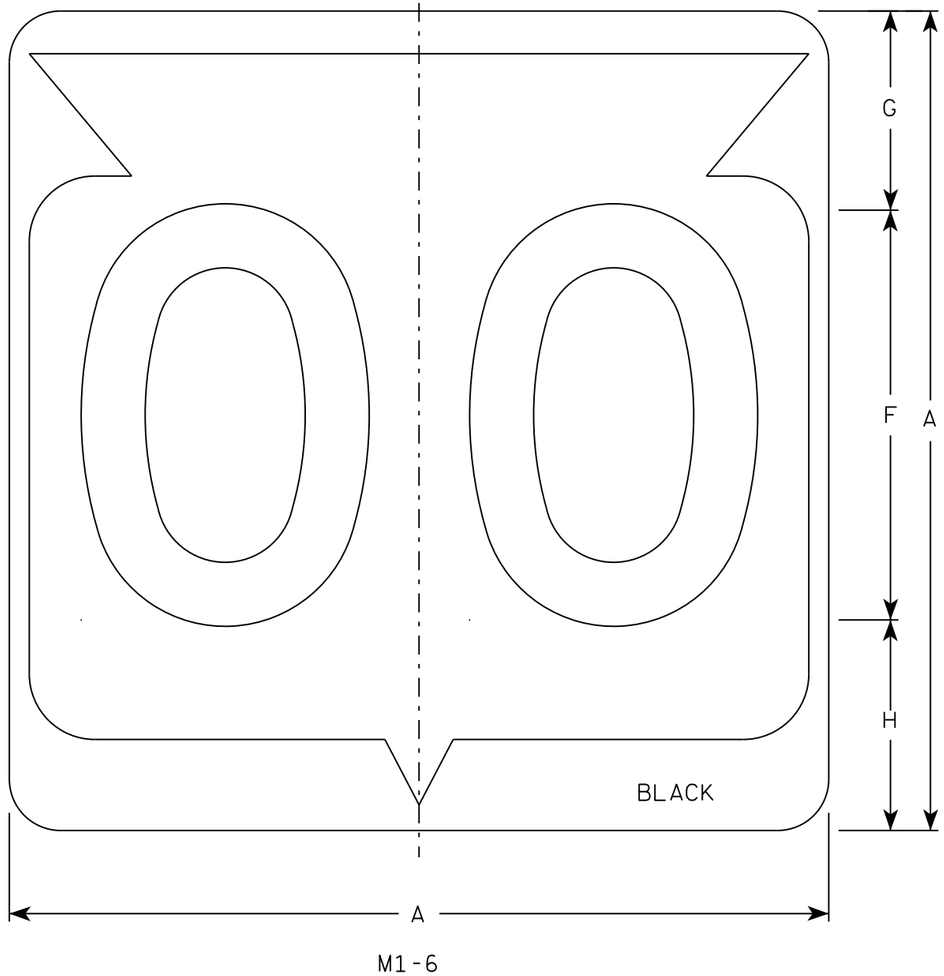
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

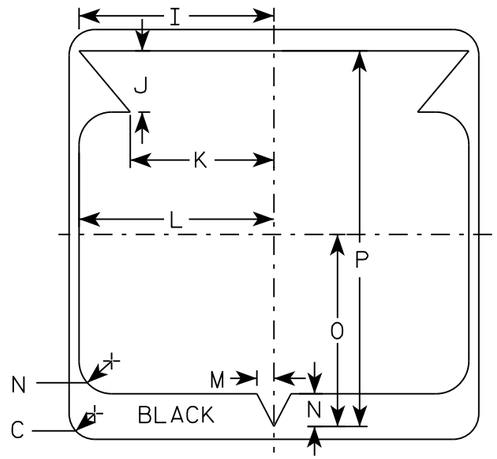
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 284	E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

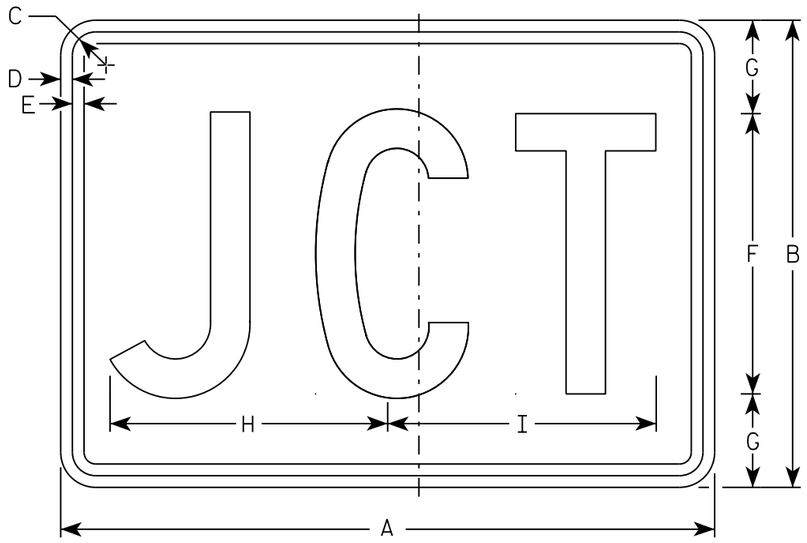
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

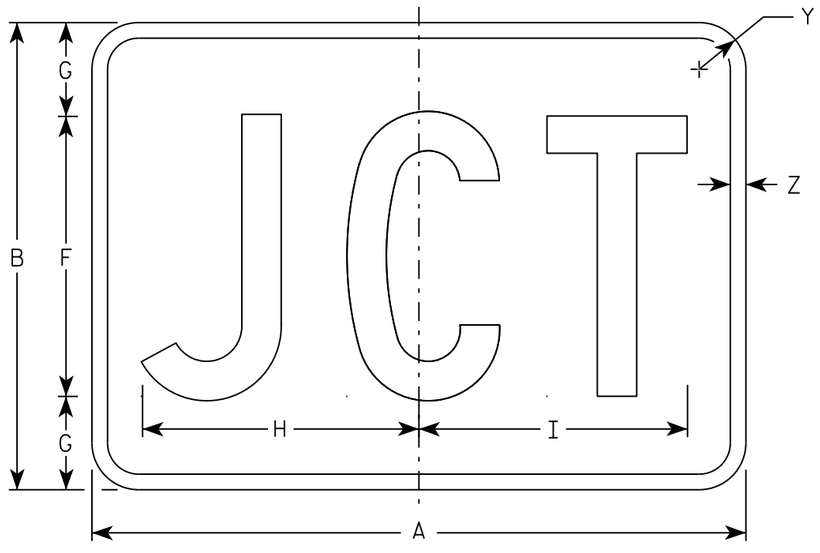
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 285 | E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

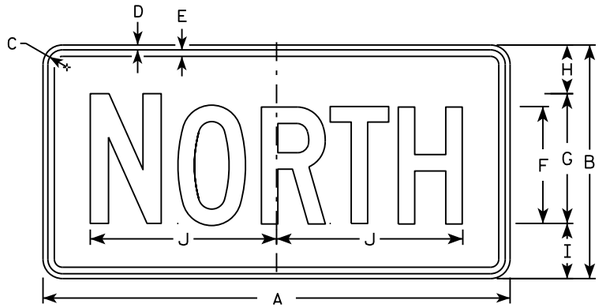
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

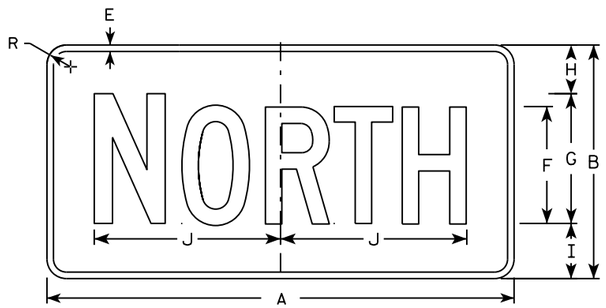
DATE 10/15/15 PLATE 286 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



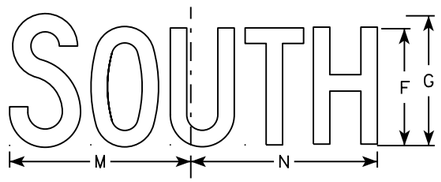
M3-1
MM3-1
MP3-1



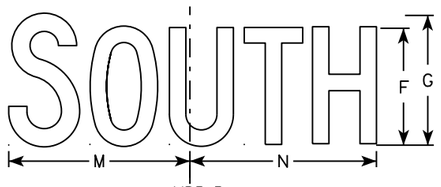
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

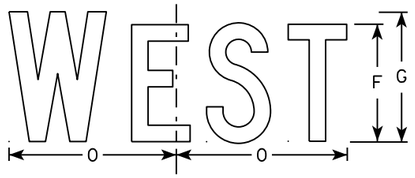
MB3-2
MK3-2
MN3-2



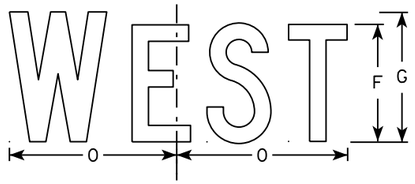
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

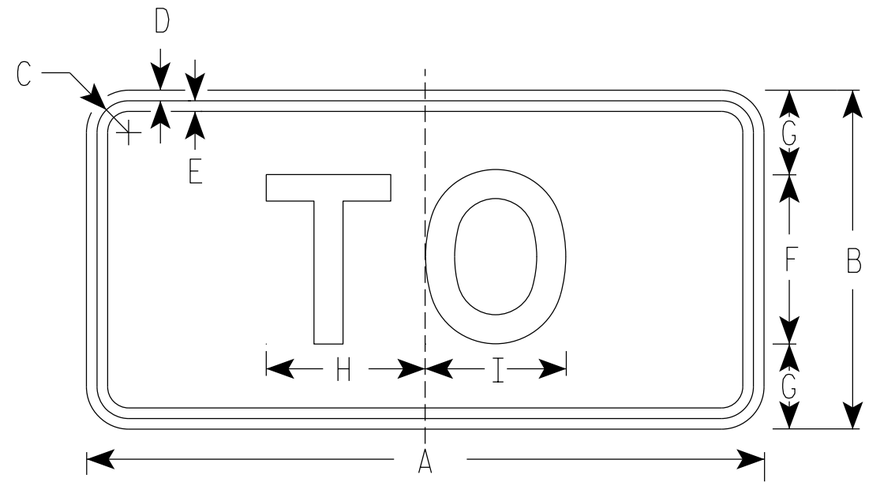
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

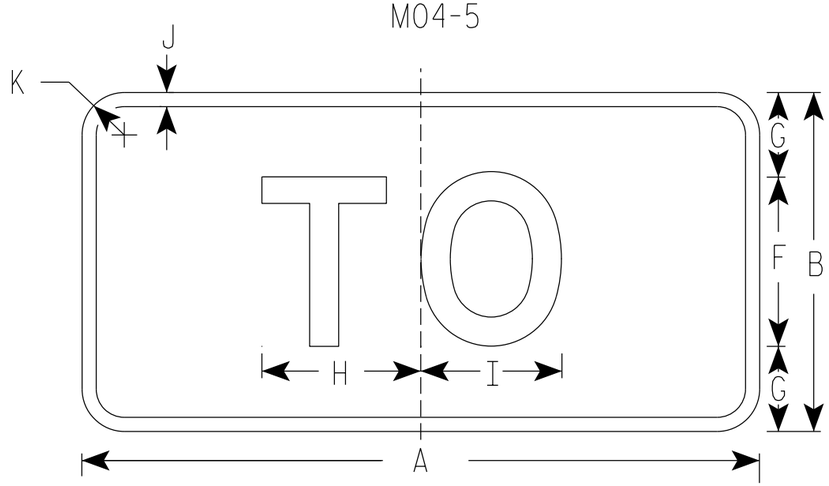
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-5
MM4-5
MP4-5
M04-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

   M04-5 Background - Orange Type F Reflective
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

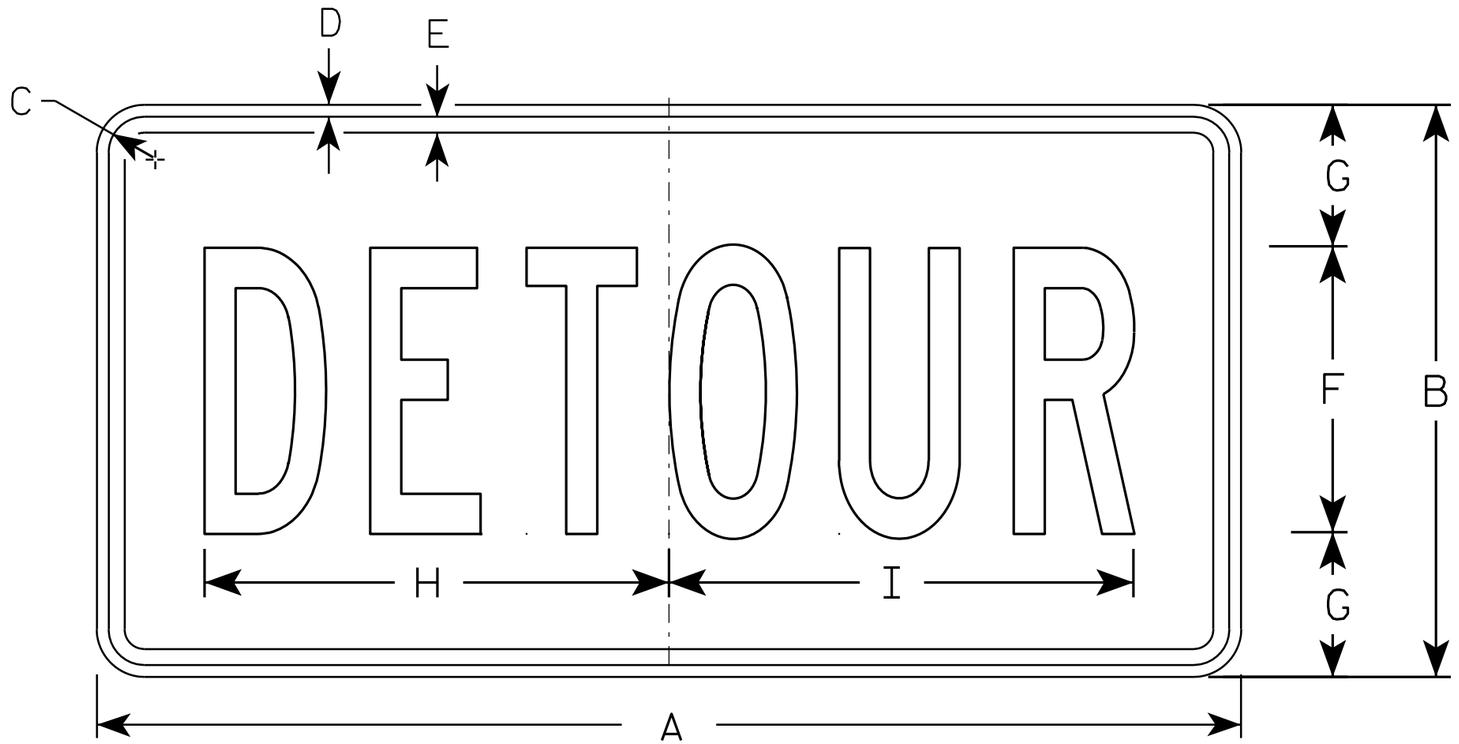
STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/7/19 PLATE NO. M4-5.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 288 | E



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

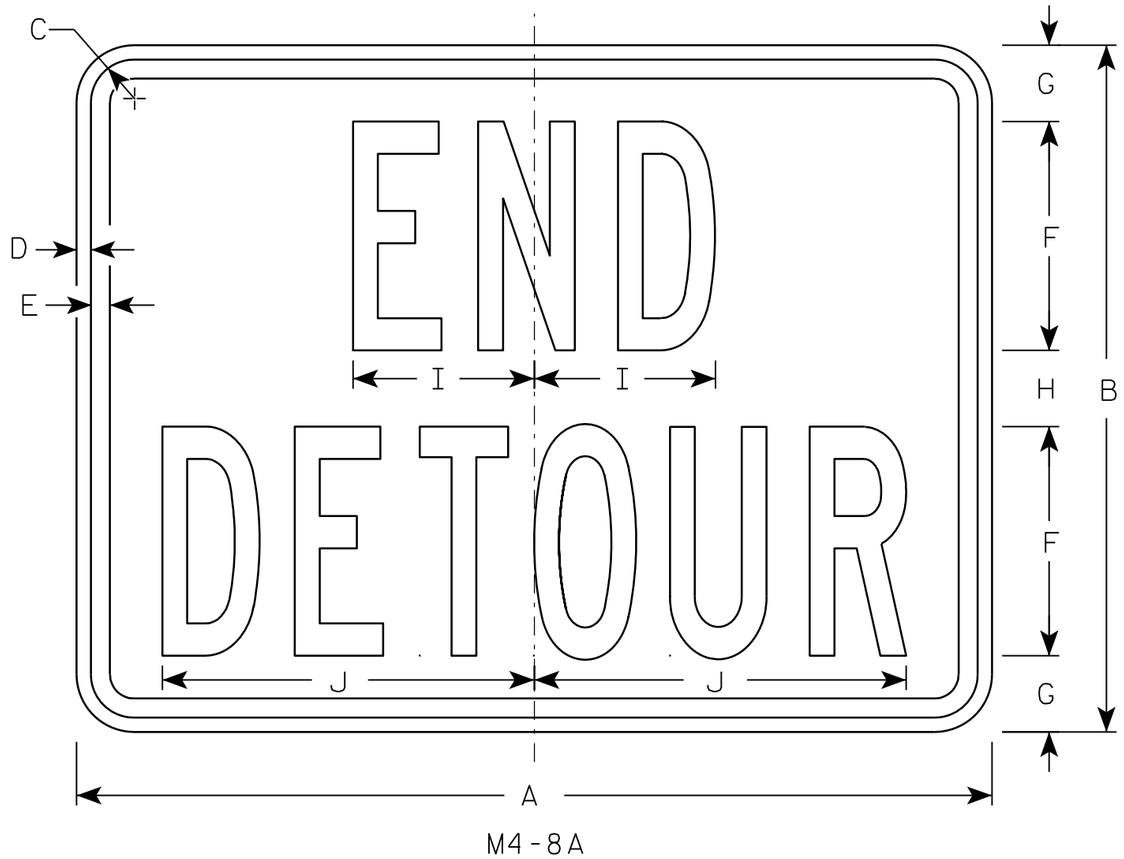
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 289	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

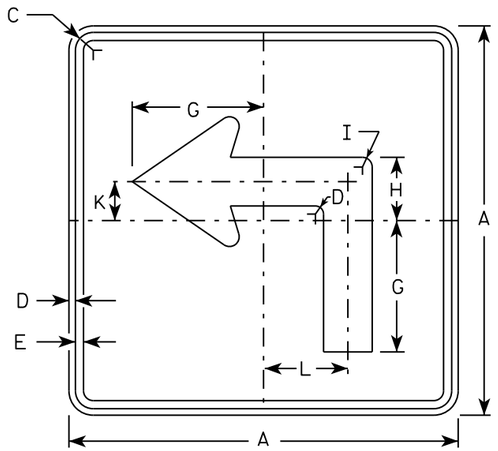
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

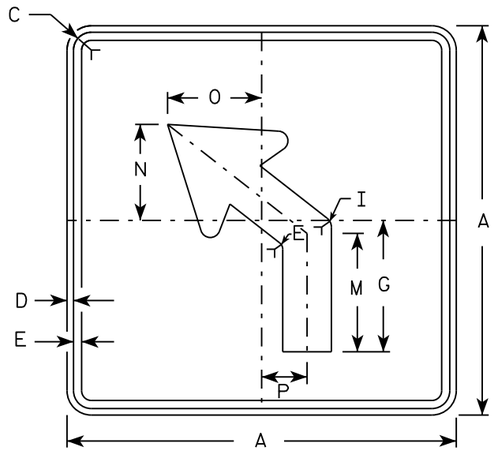
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

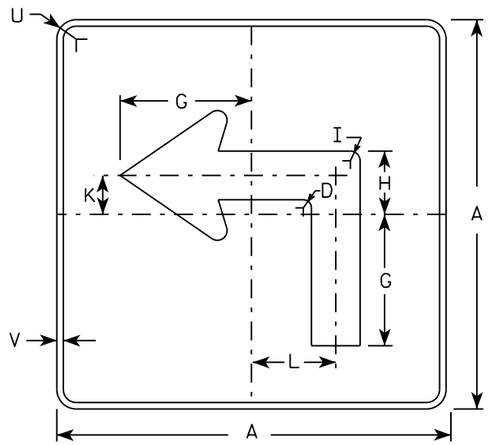
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 290	E



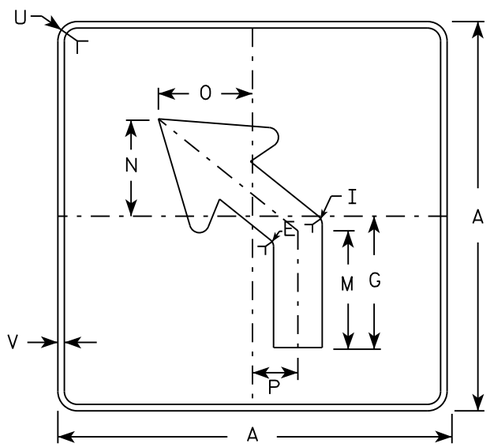
M5-1L
MM5-1L
MO5-1L
MP5-1L



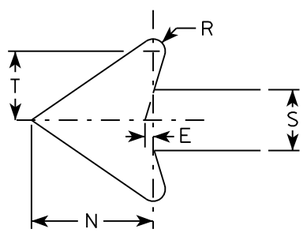
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

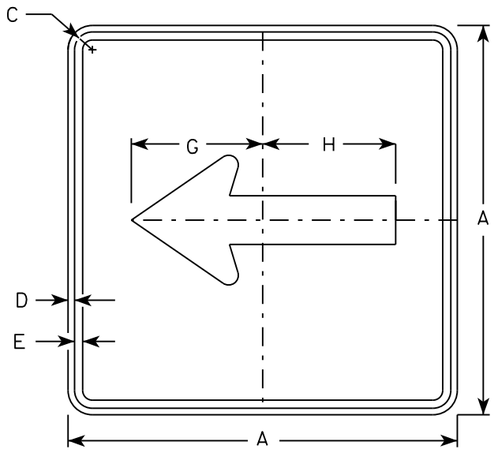
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

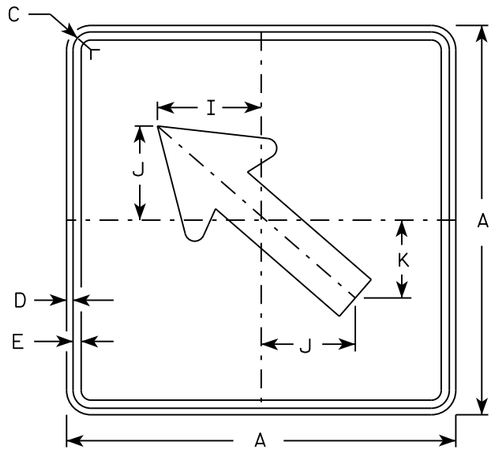
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



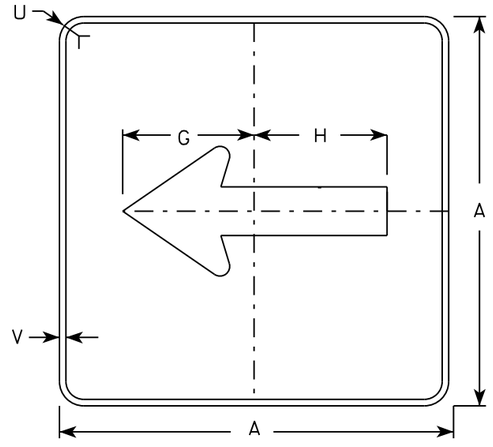
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2

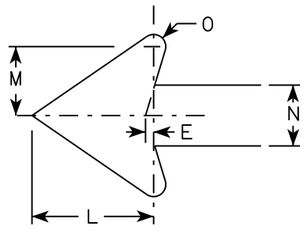
NOTES

1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1

MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN M6-1 & M6-2 SERIES

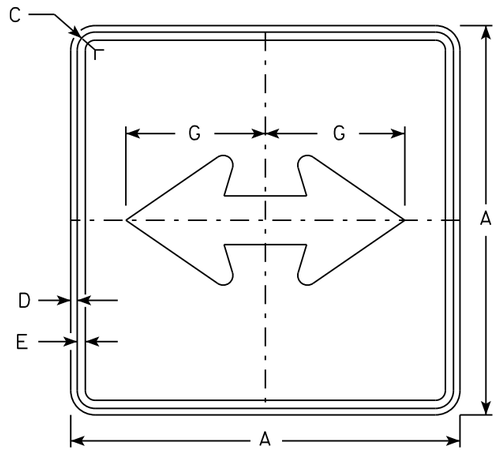
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

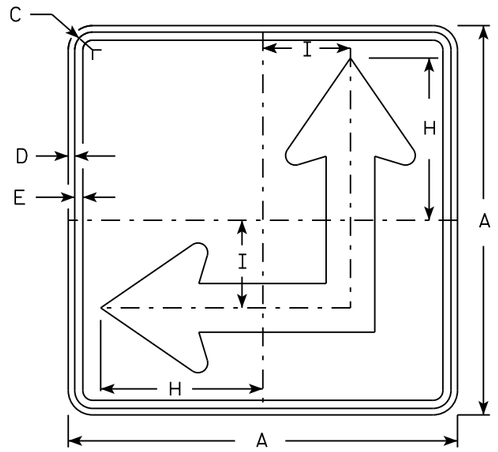
DATE 10/15/15 PLATE 292 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



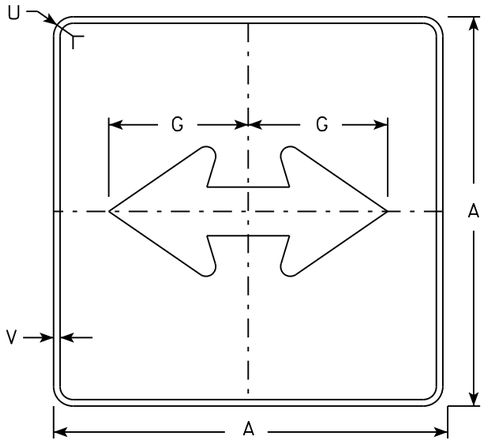
M6-4
MM6-4
MO6-4
MP6-4



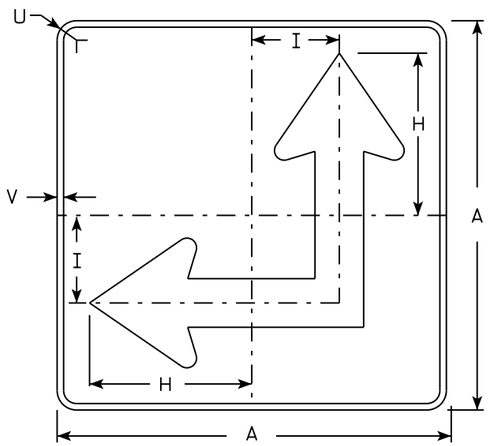
M6-6
MM6-6
MO6-6
MP6-6

NOTES

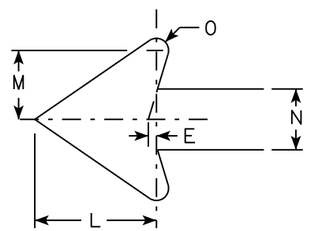
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

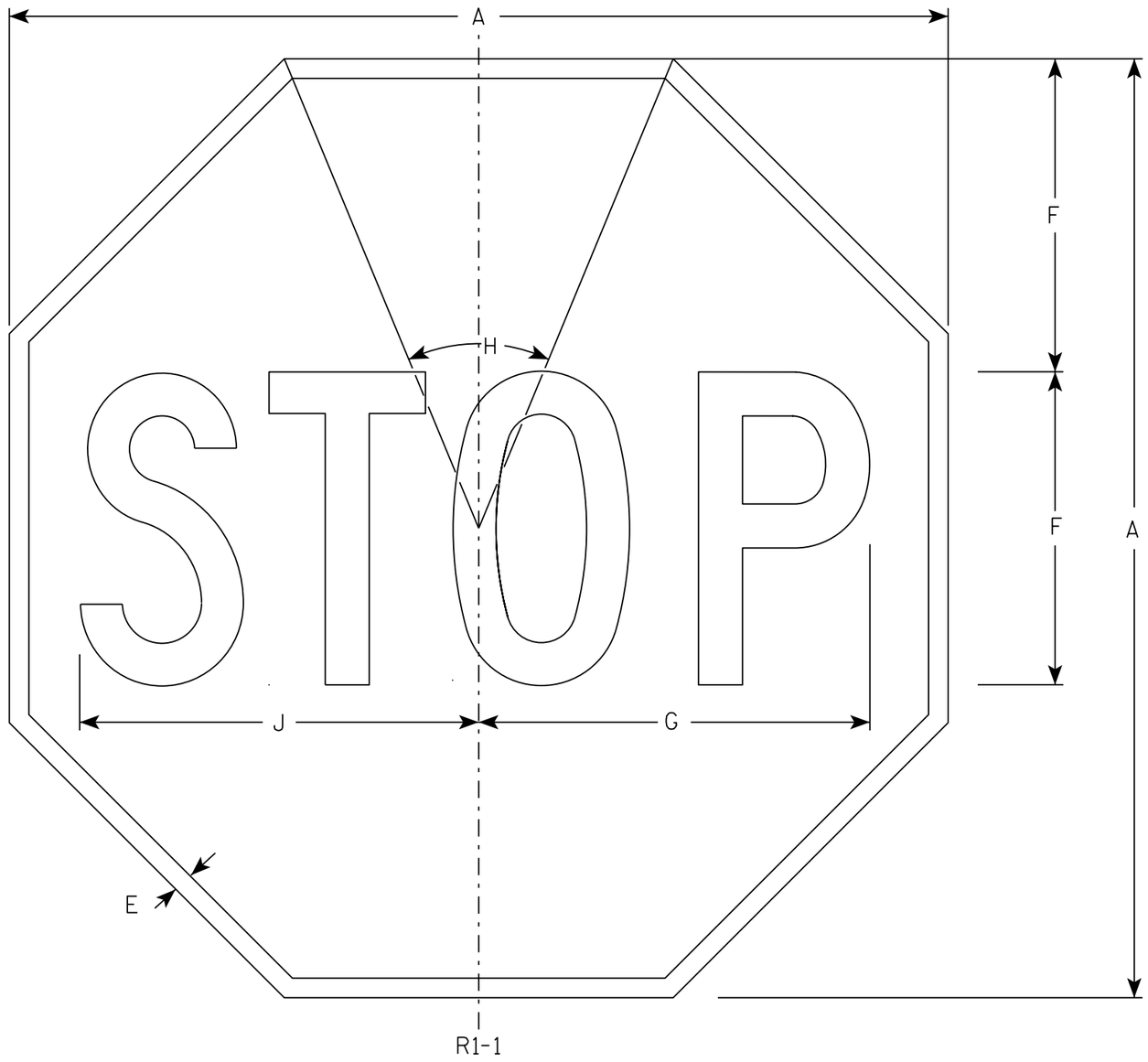
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATI 293 M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

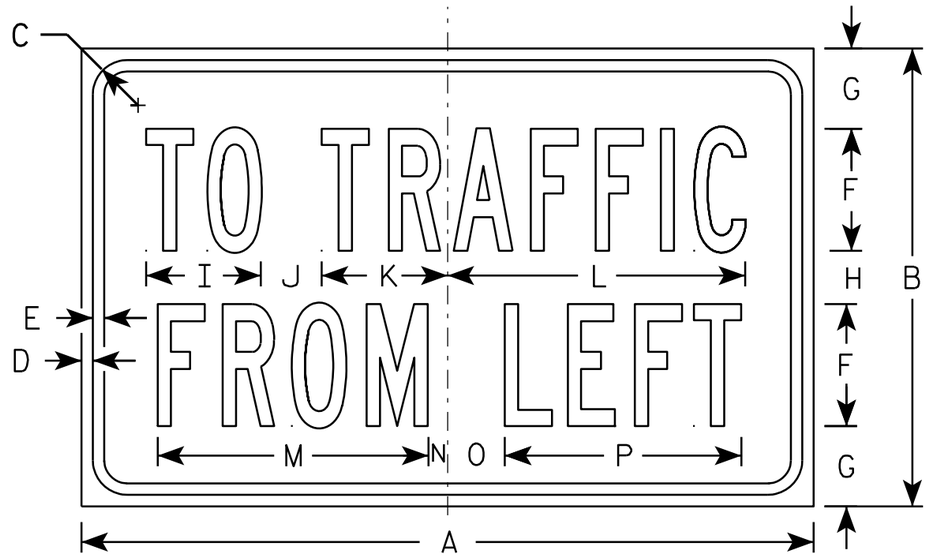
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 294	E



R1-54

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
2M	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
3																											
4																											
5																											

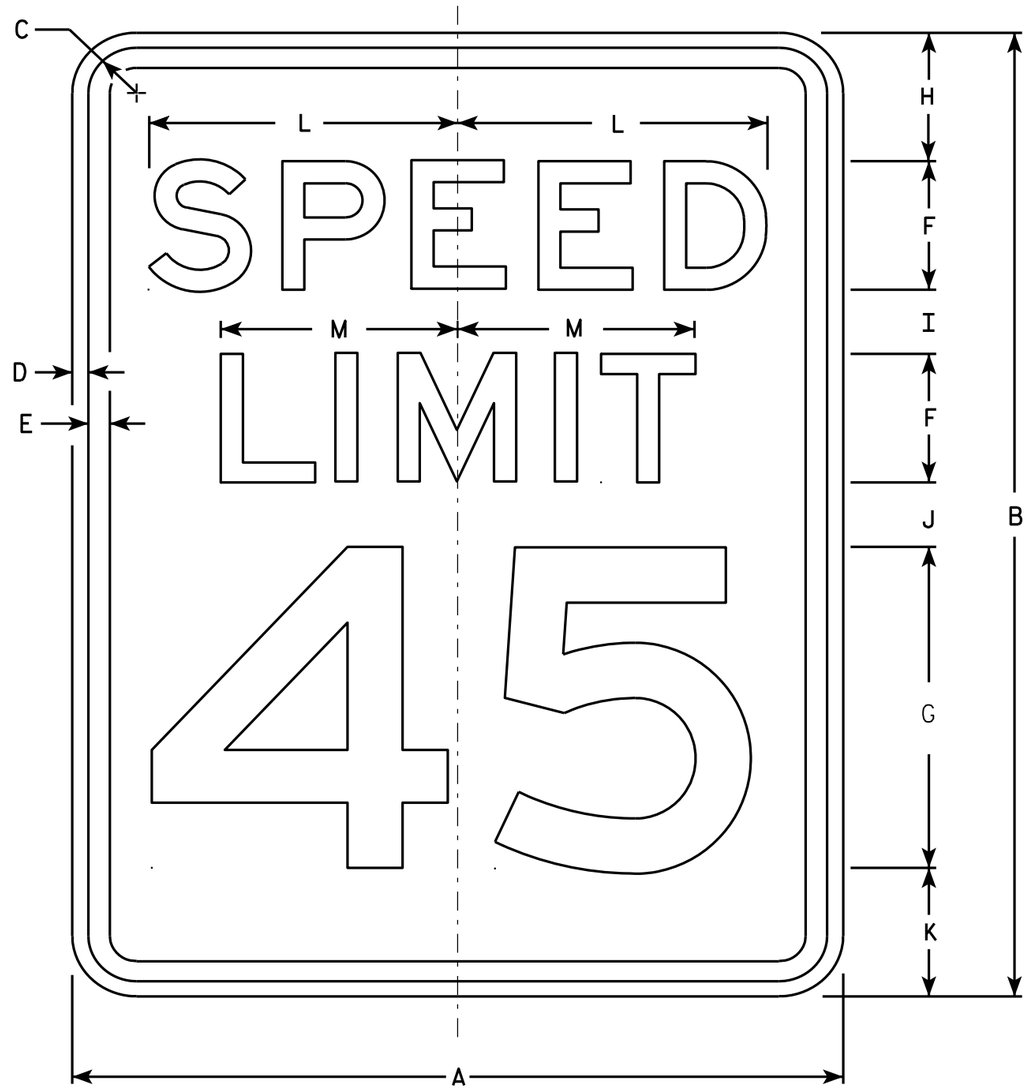
STANDARD SIGN
R1-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-54.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 295	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

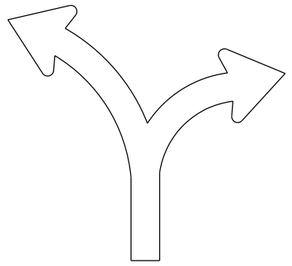
APPROVED Matthew R Rauch
for State Traffic Engineer

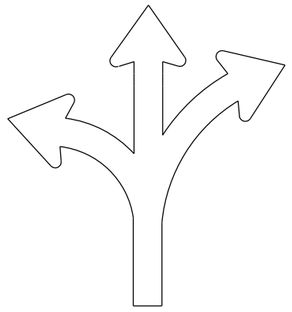
DATE 5/26/10 PLATE NO. R2-1.13

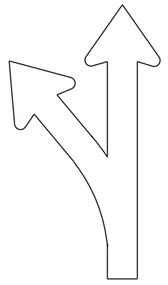
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 296 | E

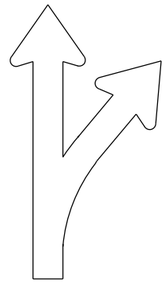
(A)

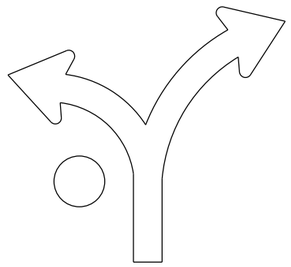
(B)

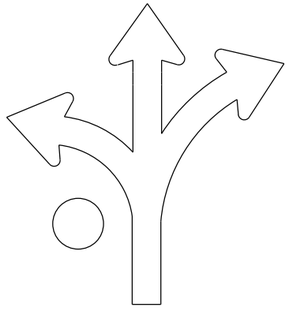

(C)

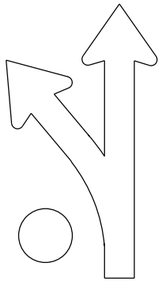

(D)


(E)

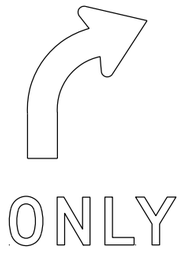

(F)


(G)

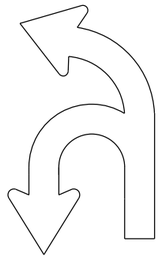

(H)


(I)

(L)



(R)


(U)

NOTES

1. Sigs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Use appropriate Letter for Sign Code
   Each letter added makes sign wider. Example R3-8EAR
5. Square footage of sign varies by letters

1	Letter =	3.75 sq ft for Size 2
		6.0 sq ft for Size 3
		10.0 sq ft for Size 4 or 5
2	Letters =	7.5 sq ft for Size 2
		12.0 sq ft for Size 3
		20.0 sq ft for Size 4 or 5
3	Letters =	11.25 sq ft for Size 2
		18.0 sq ft for Size 3
		30.0 sq ft for Size 4 or 5
4	Letters =	15.0 sq ft for Size 2
		24.0 sq ft for Size 3
		40.0 sq ft for Size 4 or 5
5	Letters =	18.75 sq ft for Size 2
		30.0 sq ft for Size 3
		50.0 sq ft for Size 4 or 5
6	Letters =	22.5 sq ft for Size 2
		36.0 sq ft for Size 3
		60.0 sq ft for Size 4 or 5

6. When letters C,D,G,H are used on the Left or Right end of the sign the Sq. Ft. changes.
   Add the amounts when these letters are used:
   1.25 sq ft for Size 2
   1.5 sq ft for Size 3
   2.0 sq ft for Size 4 or 5

STANDARD SIGN
R3-8 Series

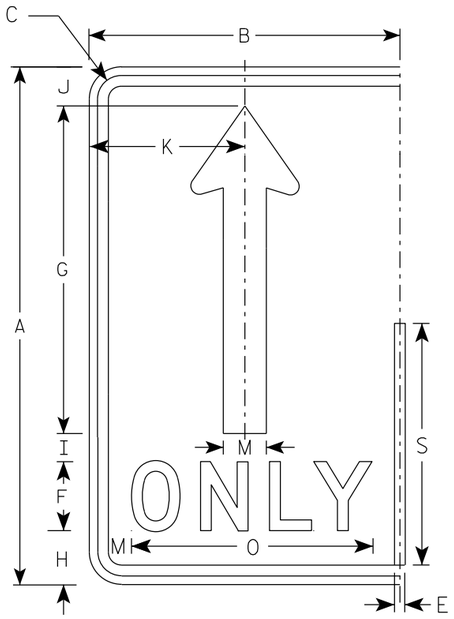
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

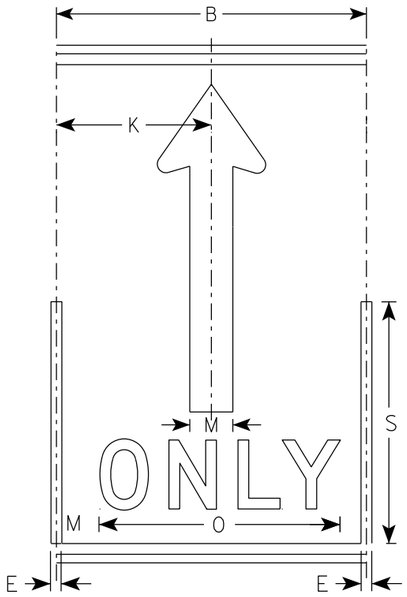
DATE 5/21/19 PLATE NO. R3-8.1

NOTES

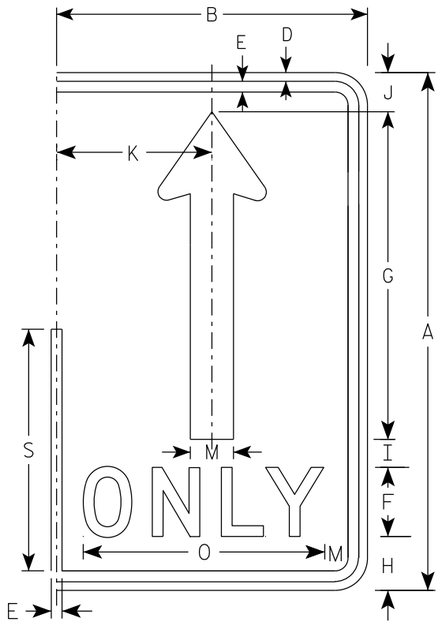
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



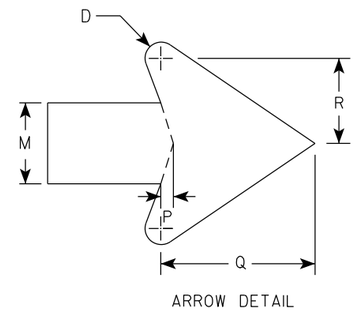
(A)



(A)



(A)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 3/4	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

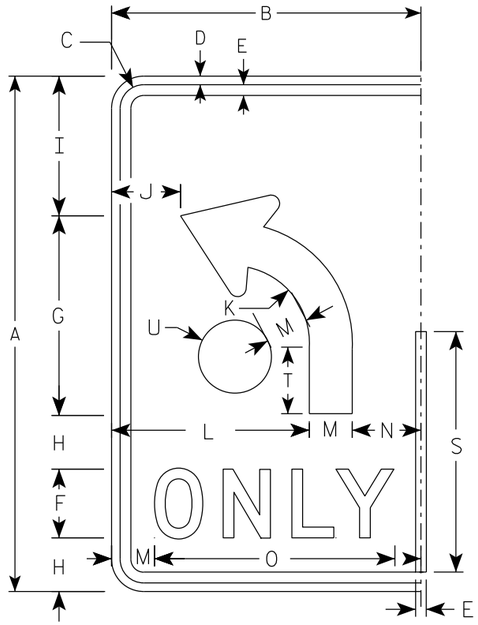
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

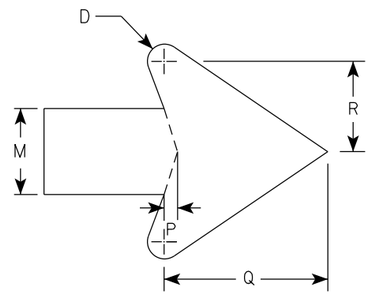
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 298 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
   Message Series - D



(B)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

STANDARD SIGN

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

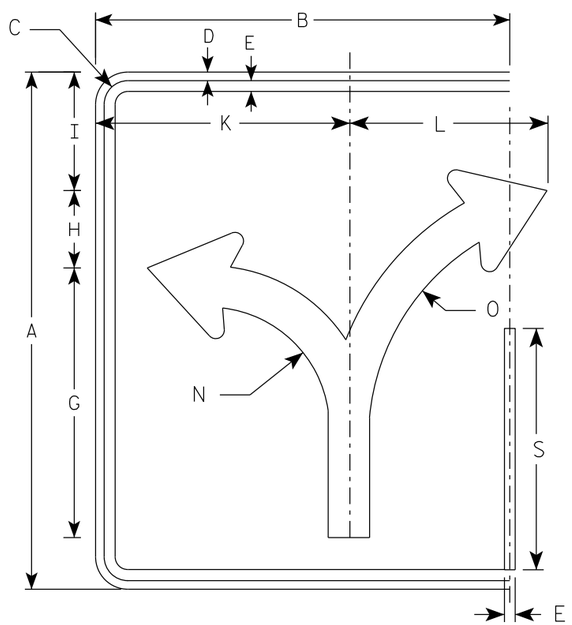
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

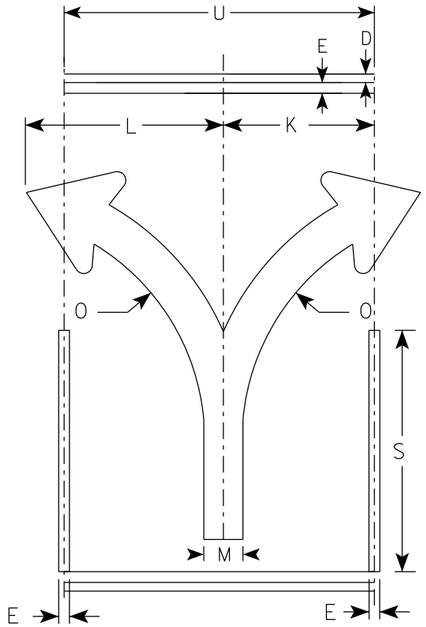
SHEET NO: 299 E

NOTES

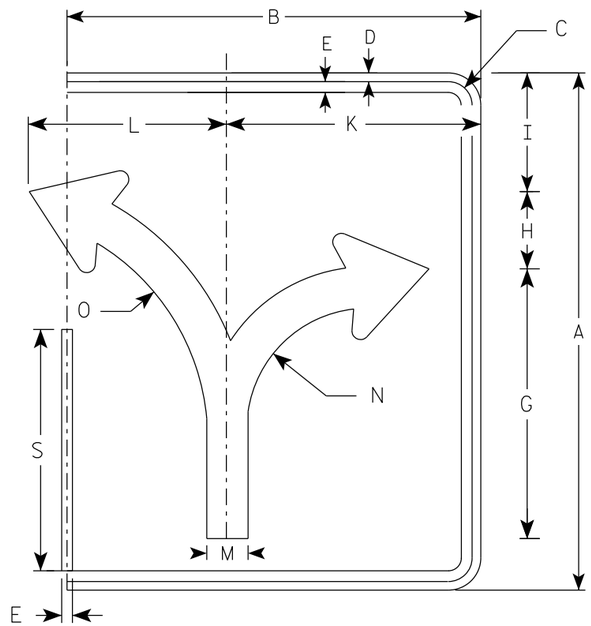
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



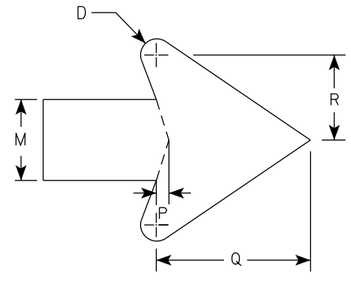
(C)



(C)



(C)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

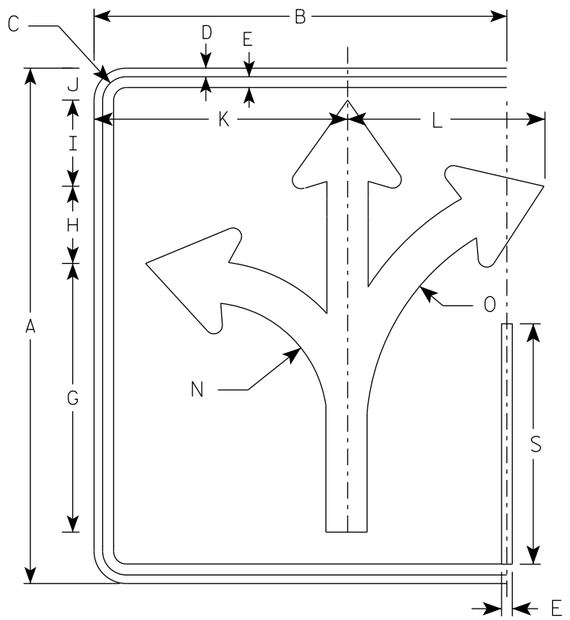
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

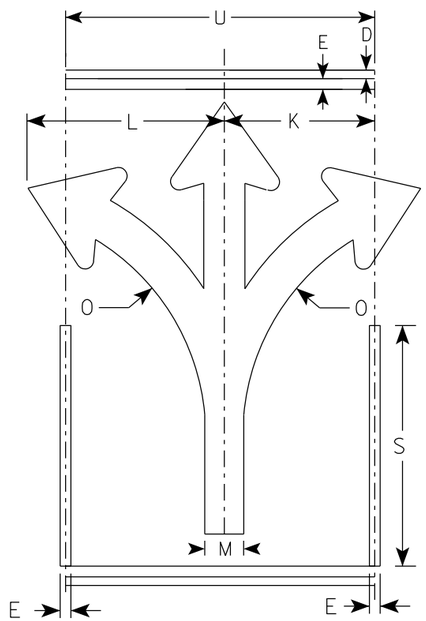
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 300 | E

NOTES

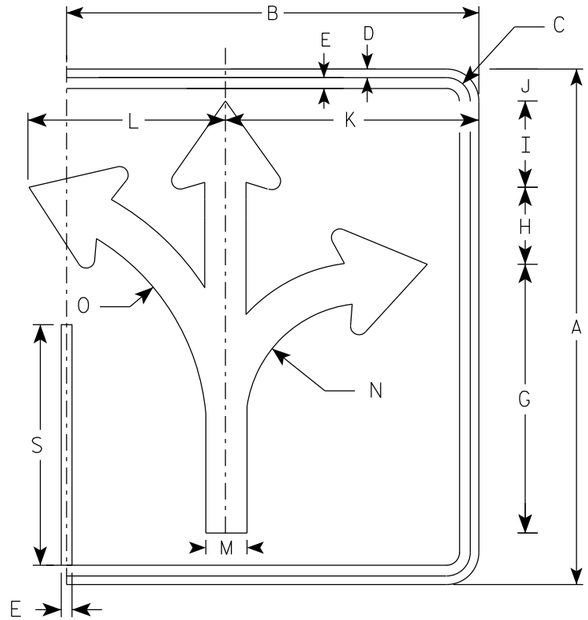
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



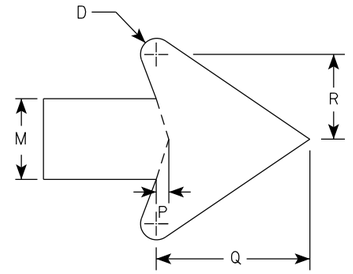
(D)



(D)



(D)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

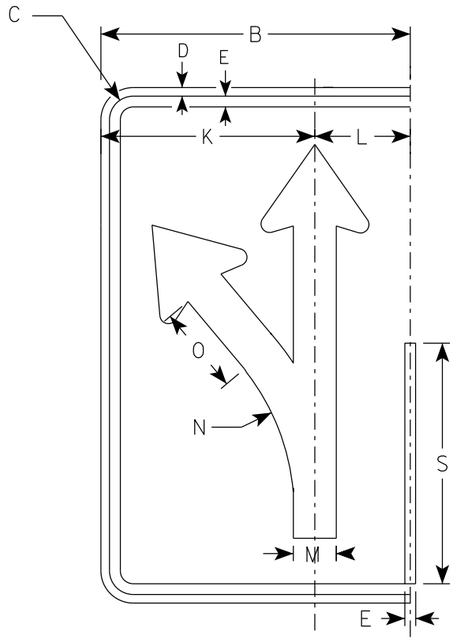
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

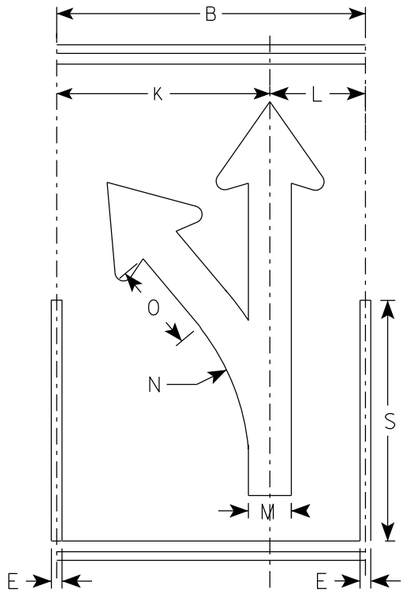
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 301 | E

NOTES

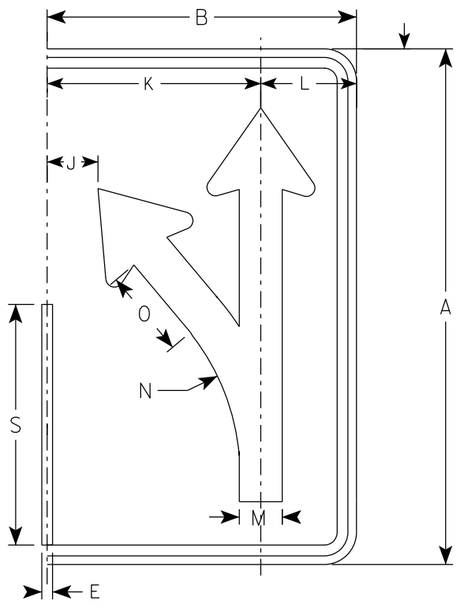
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



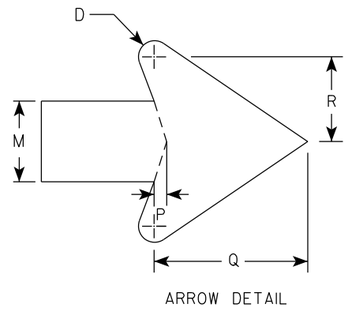
(E)



(E)



(E)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

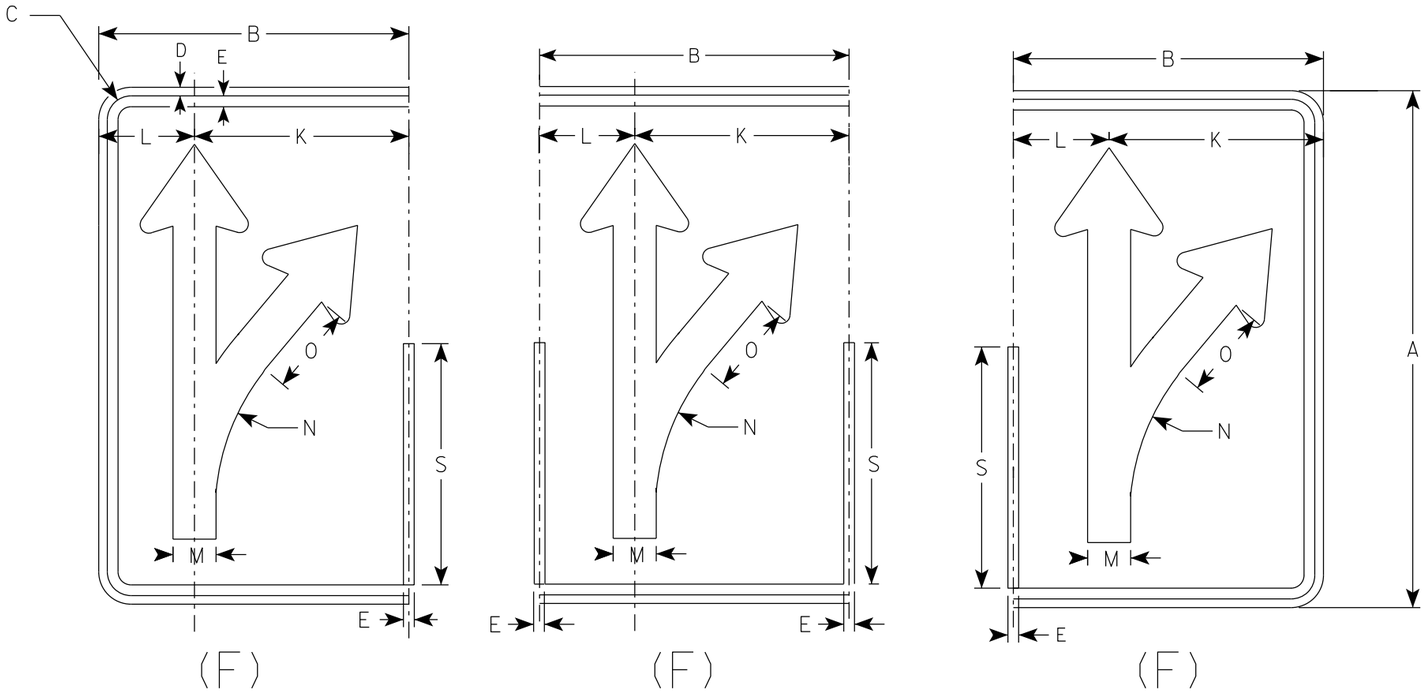
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

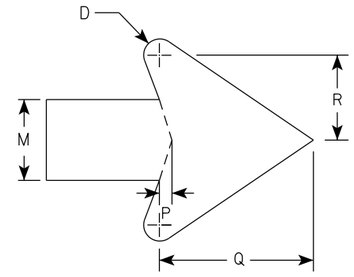
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 302 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(F) (F) (F)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

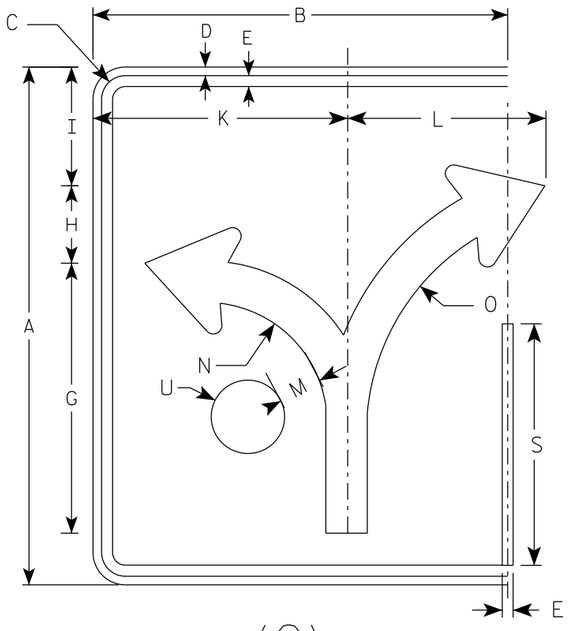
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

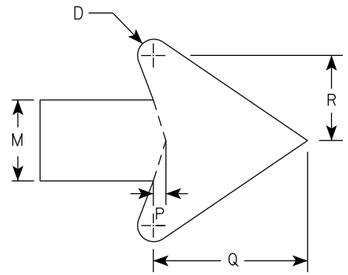
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 303 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(G)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

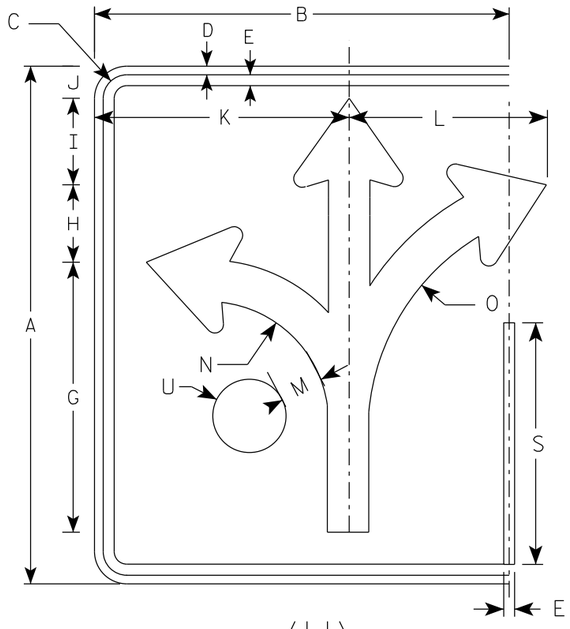
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 304 | E

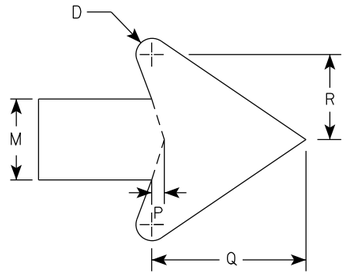
FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 21-MAY 2019 4:38 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(H)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

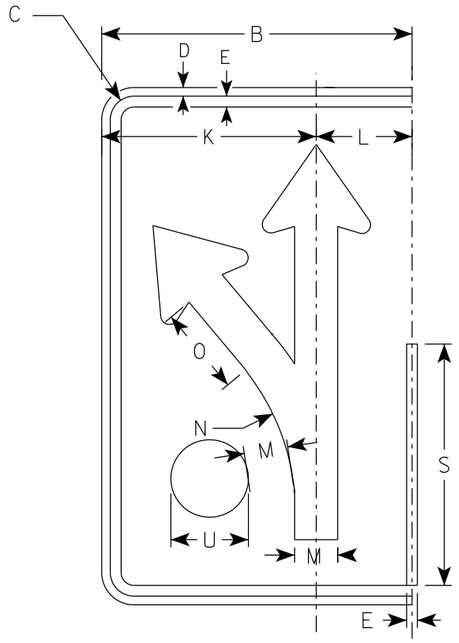
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

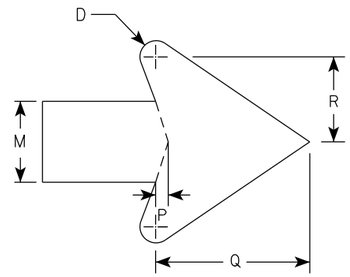
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 305	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(I)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN
R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

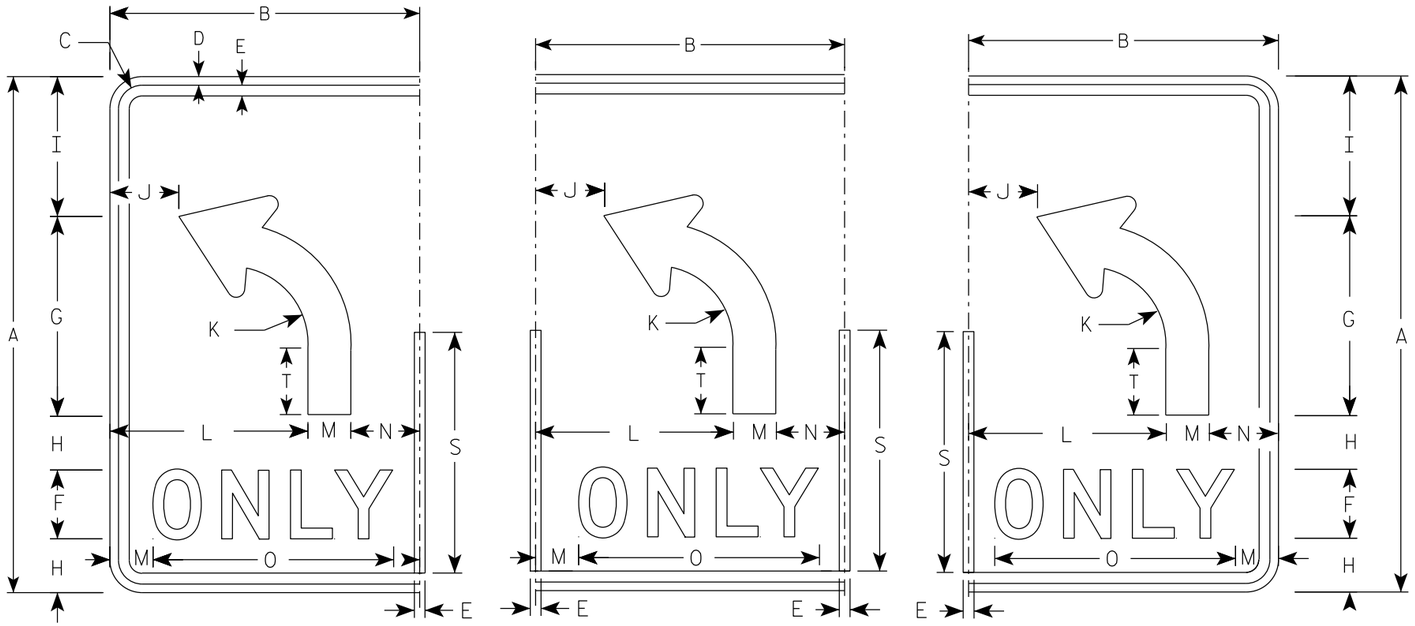
APPROVED Matthew R Rauch
For State Traffic Engineer

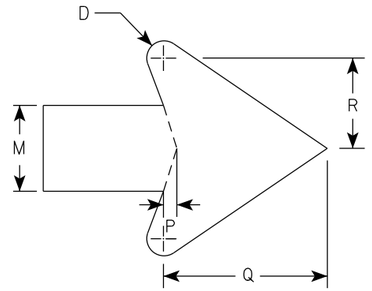
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 306 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D





ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

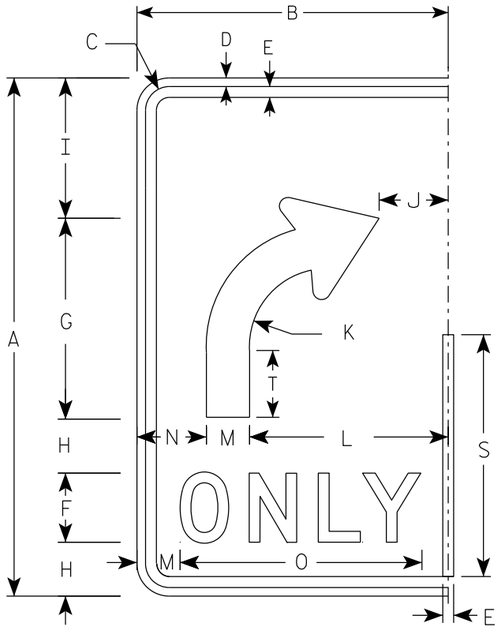
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

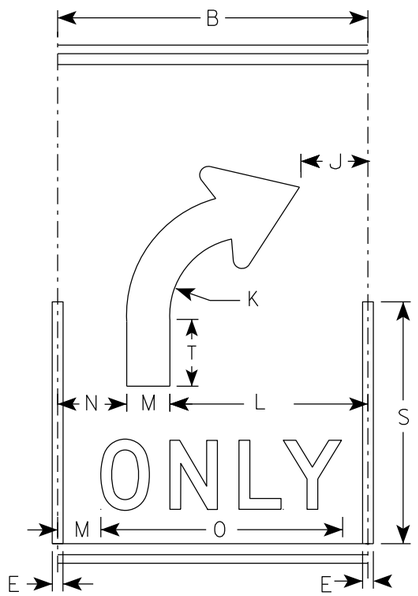
SHEET NO: 307 E

NOTES

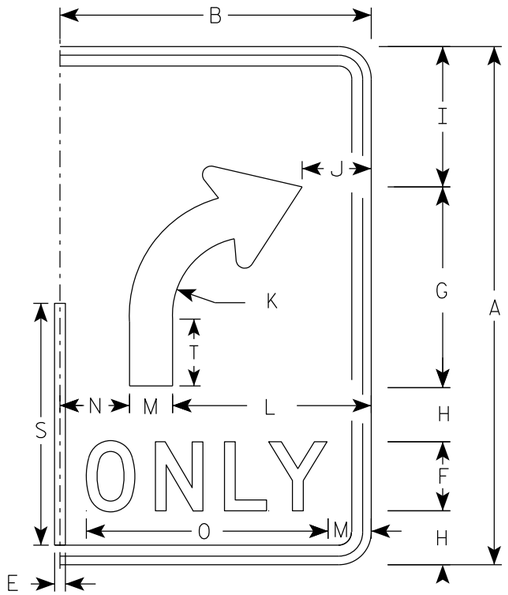
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



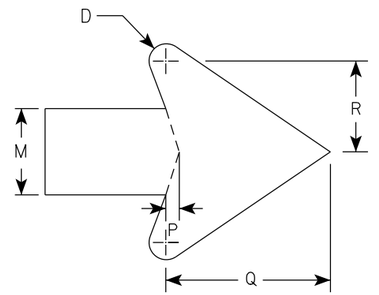
(R)



(R)



(R)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN
R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

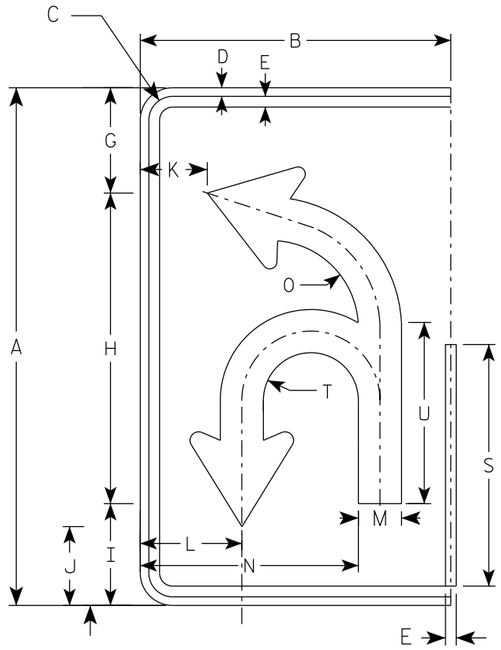
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

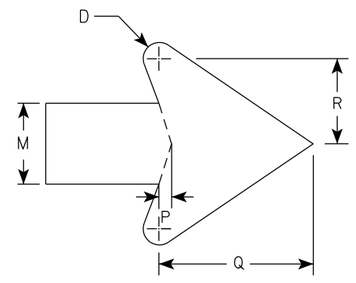
SHEET NO: 308 **E**

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(U)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	21 5/8	7 1/8	5 1/2	5 7/8	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12 5/8						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0

STANDARD SIGN
R3-8 (U) Arrow

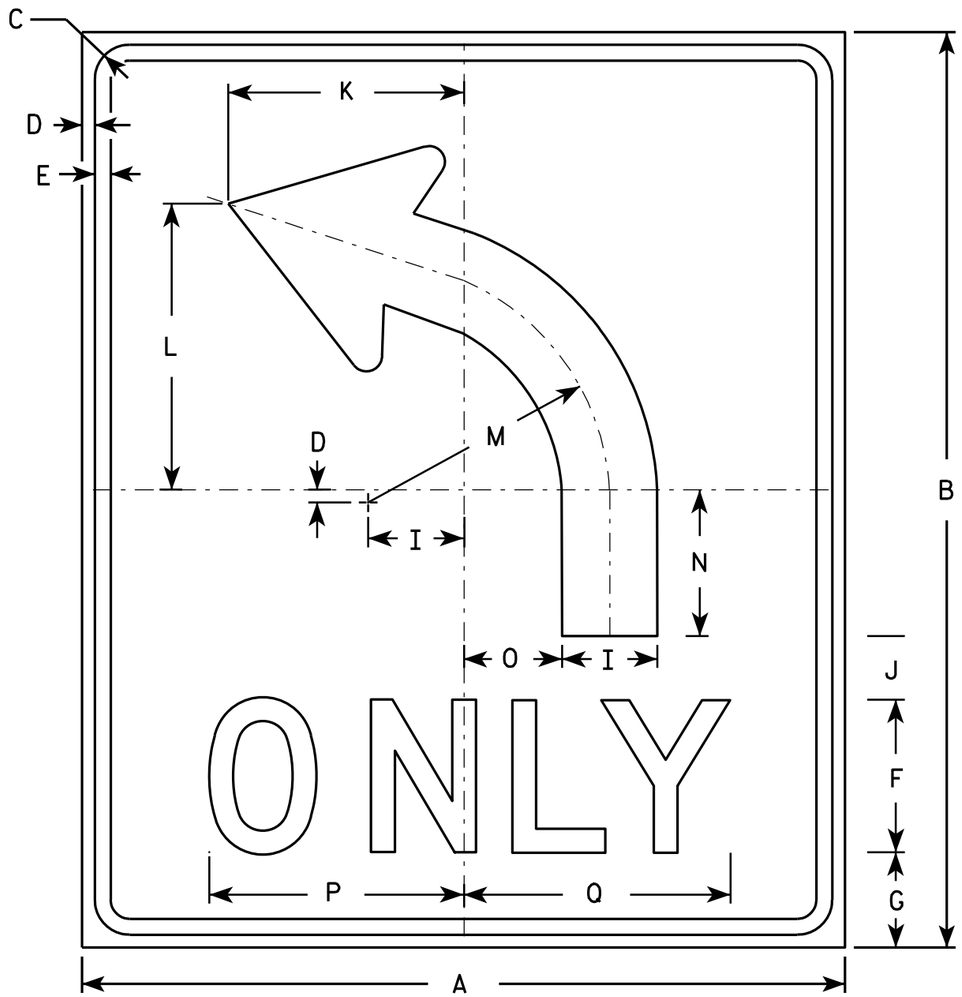
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 309 | E

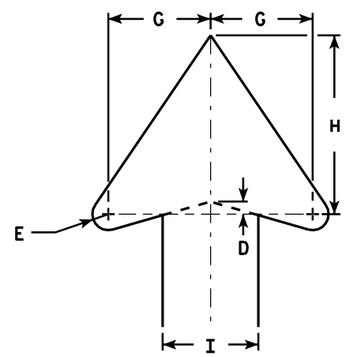
7



R3-50L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R3-50R is the same as R3-50L except curved portion of arrow points right.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	6	4	7	3 3/4	2 1/2	9 1/4	11 1/4	9 1/2	5 3/4	3 7/8	10	10 1/2										7.5
2M	30	36	1 3/8	1/2	5/8	6	4	7	3 3/4	2 1/2	9 1/4	11 1/4	9 1/2	5 3/4	3 7/8	10	10 1/2										7.5
3																											
4																											
5																											

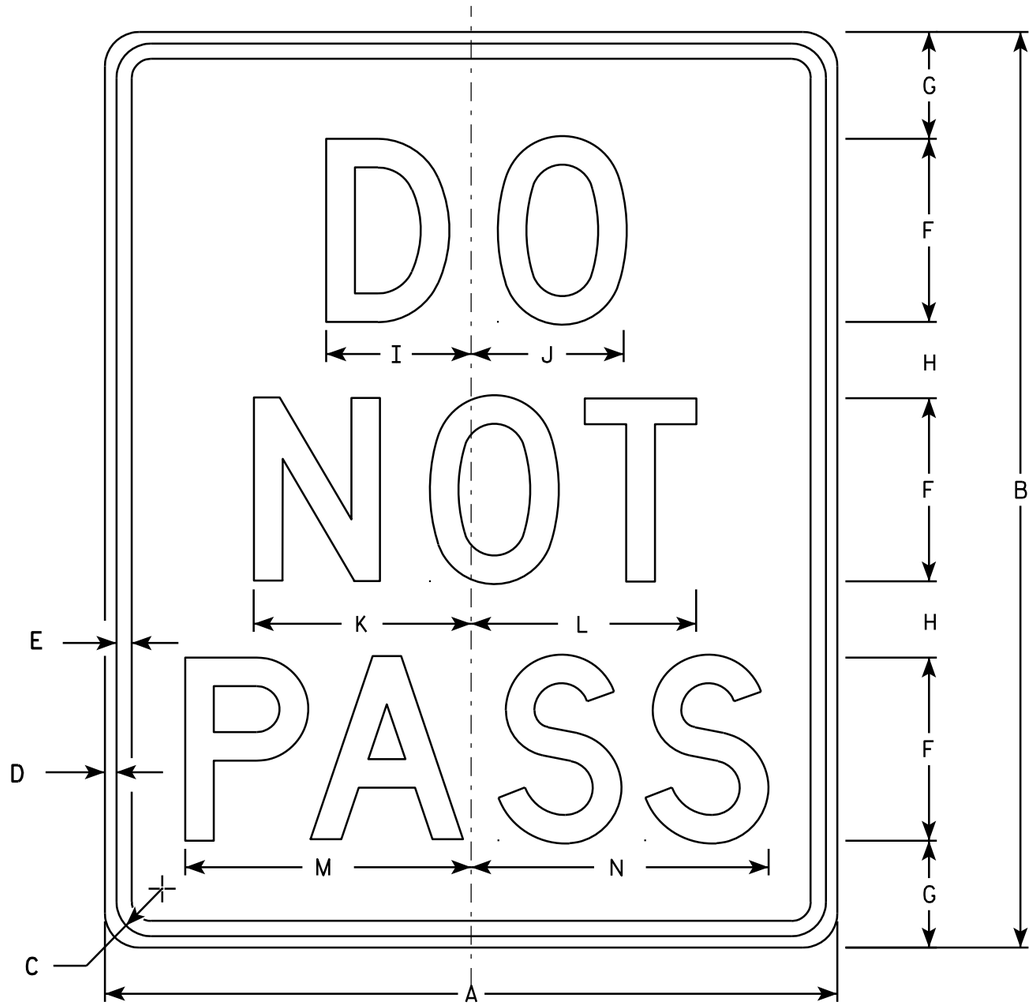
STANDARD SIGN
R3-50

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-50.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 310 | E



R4-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 1/8	3 1/4	4 3/4	4 7/8	6 1/4	6 1/2													3.0
2S	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
2M	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
3																											
4	36	48	1 5/8	5/8	3/4	8	7	5	6 1/4	6 5/8	9 1/2	9 3/4	12 1/2	13													12.0
5	48	60	2 1/4	3/4	1	10	8	7	7 3/4	8 3/8	11 7/8	12 1/4	15 5/8	16 1/4													20.0

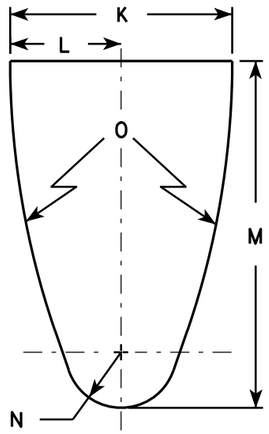
STANDARD SIGN
R4-1

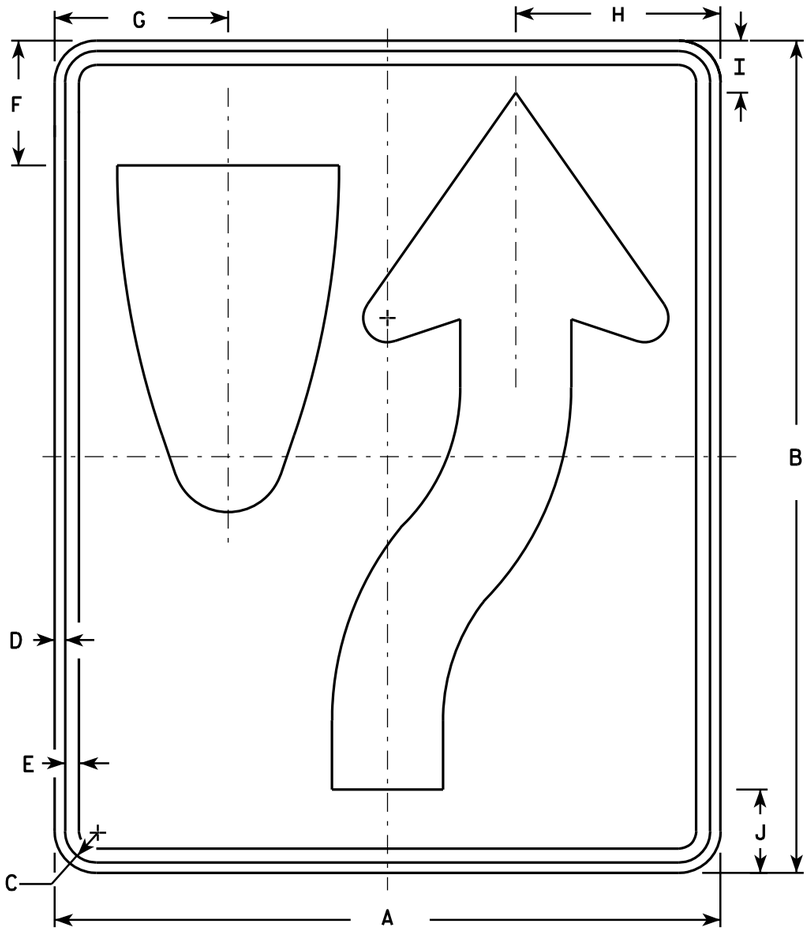
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-1.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 311 | E

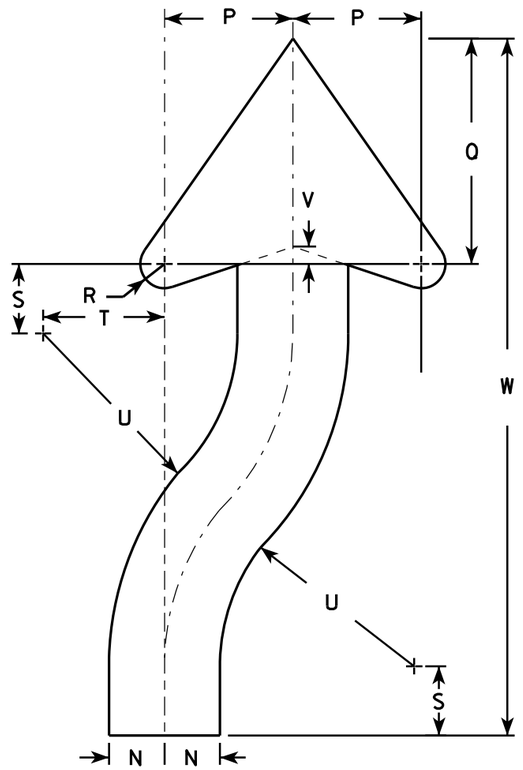




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

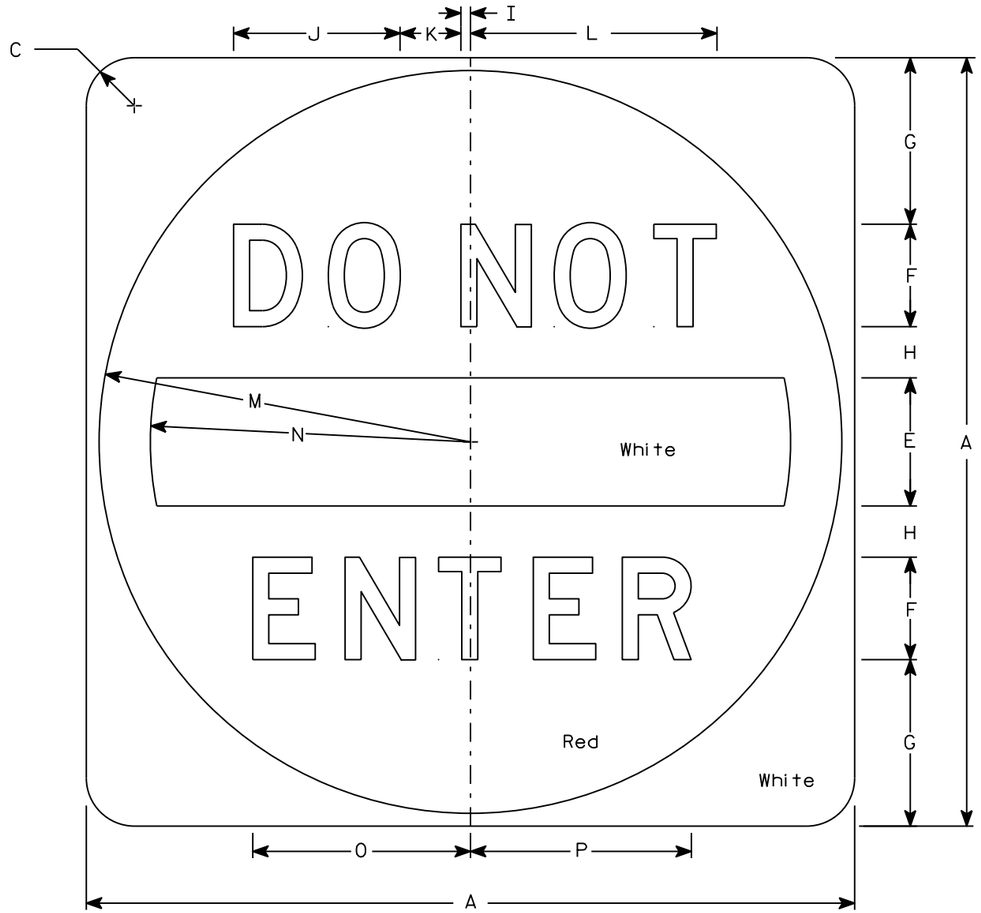
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 312	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

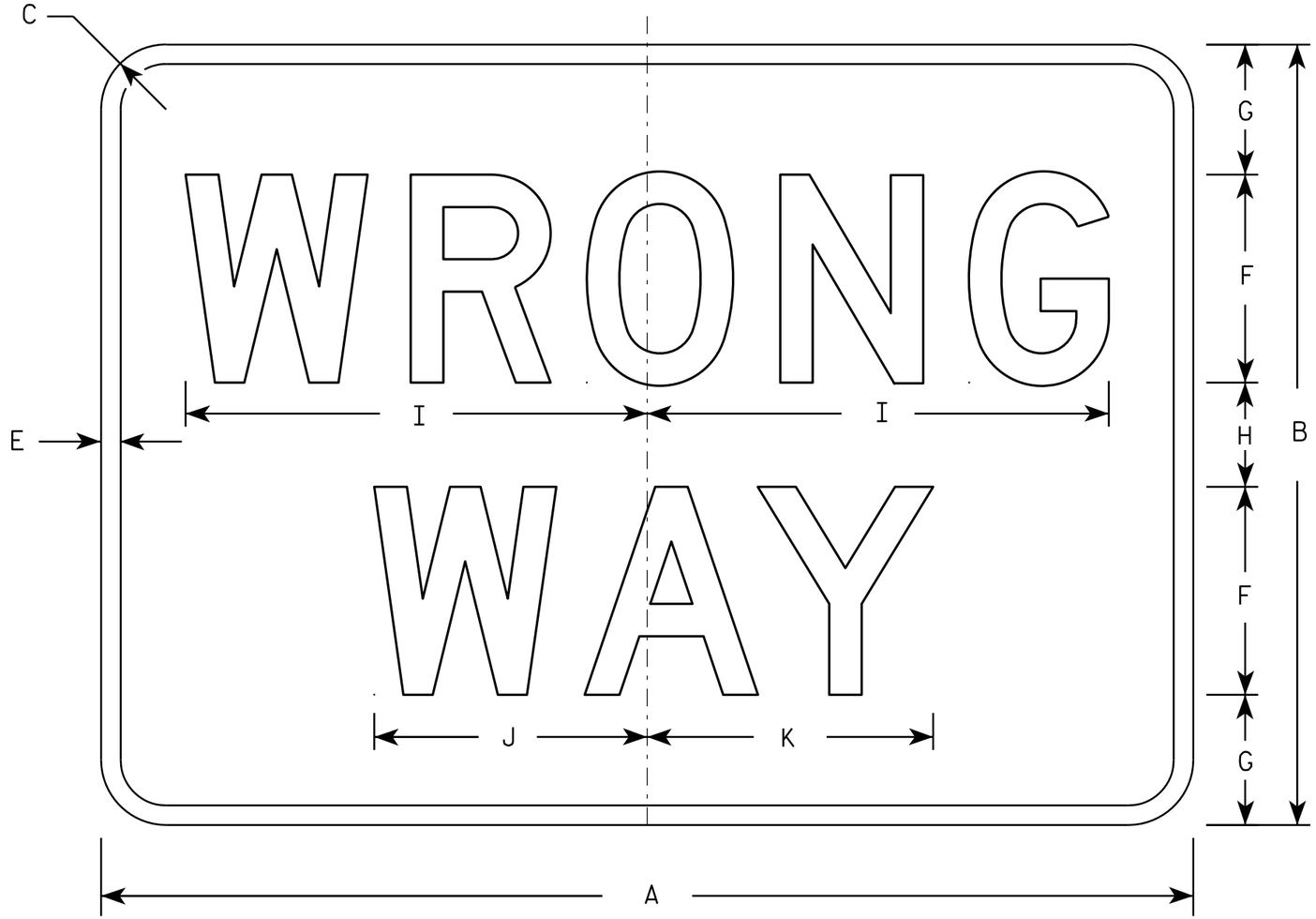
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 313 | E



R5-1A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

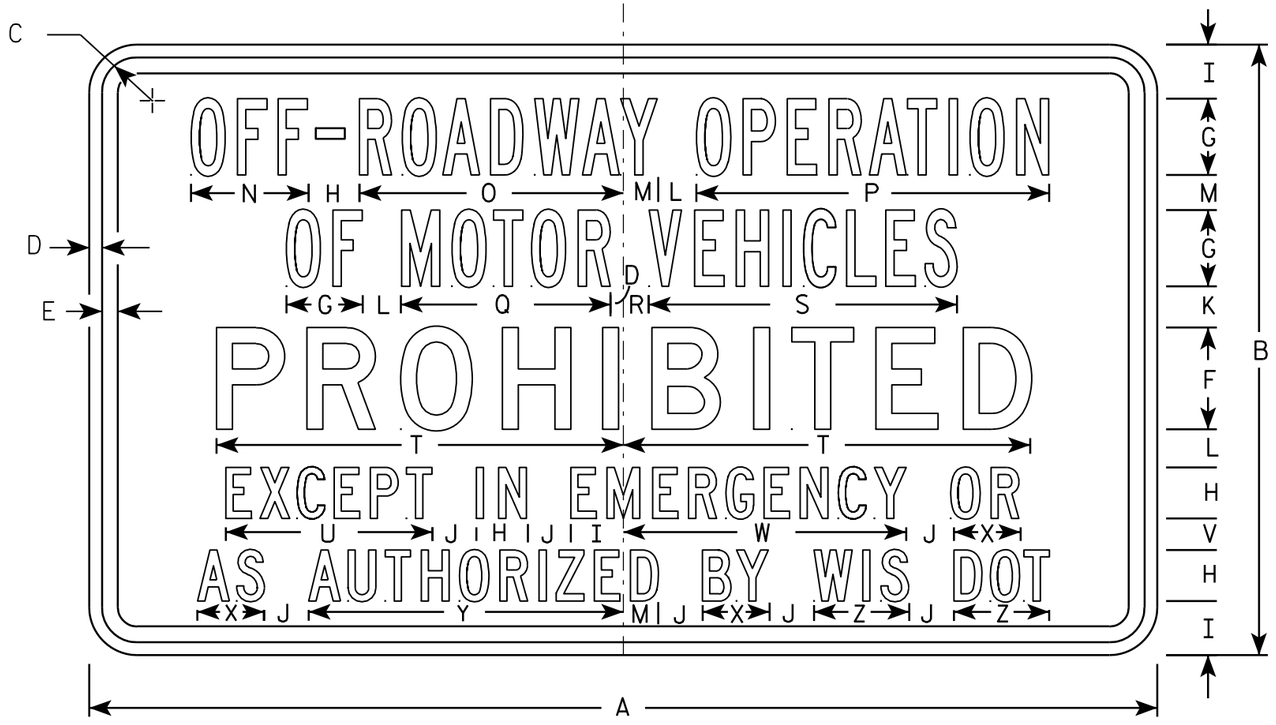
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 314 | E



R5-99

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series B.
   Line 3 is Series D.
   Lines 4 and 5 are Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	24	1 3/8	1/2	5/8	4	3	2	2 1/8	1 3/4	1 5/8	1 1/2	1 3/8	4 5/8	10 3/8	13 7/8	8 1/4	1	12 1/8	16	8 1/8	1 1/4	11 1/8	2 5/8	12 3/8	3 3/4	7.00
2M	42	24	1 3/8	1/2	5/8	4	3	2	2 1/8	1 3/4	1 5/8	1 1/2	1 3/8	4 5/8	10 3/8	13 7/8	8 1/4	1	12 1/8	16	8 1/8	1 1/4	11 1/8	2 5/8	12 3/8	3 3/4	7.00
3																											
4																											
5																											

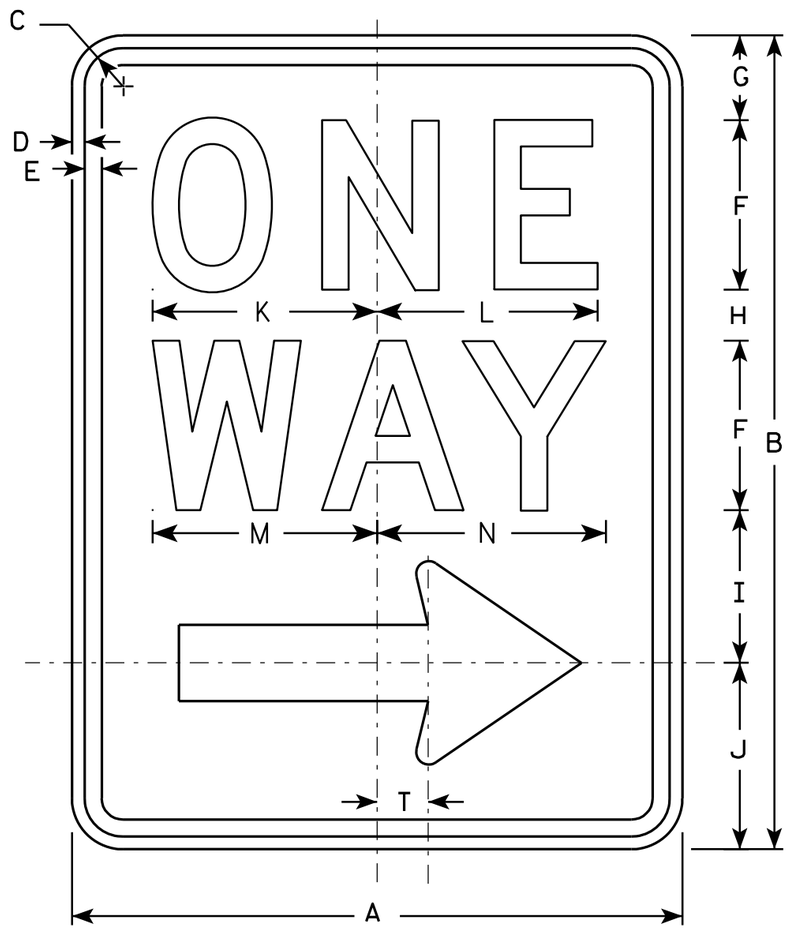
STANDARD SIGN
R5-99

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-99.6

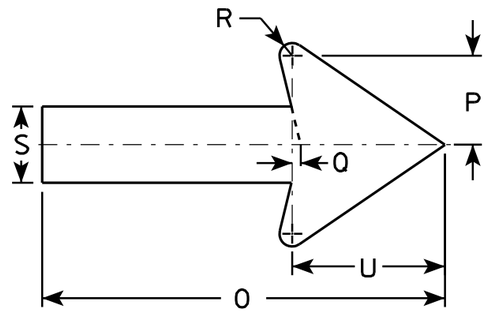
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 315	E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

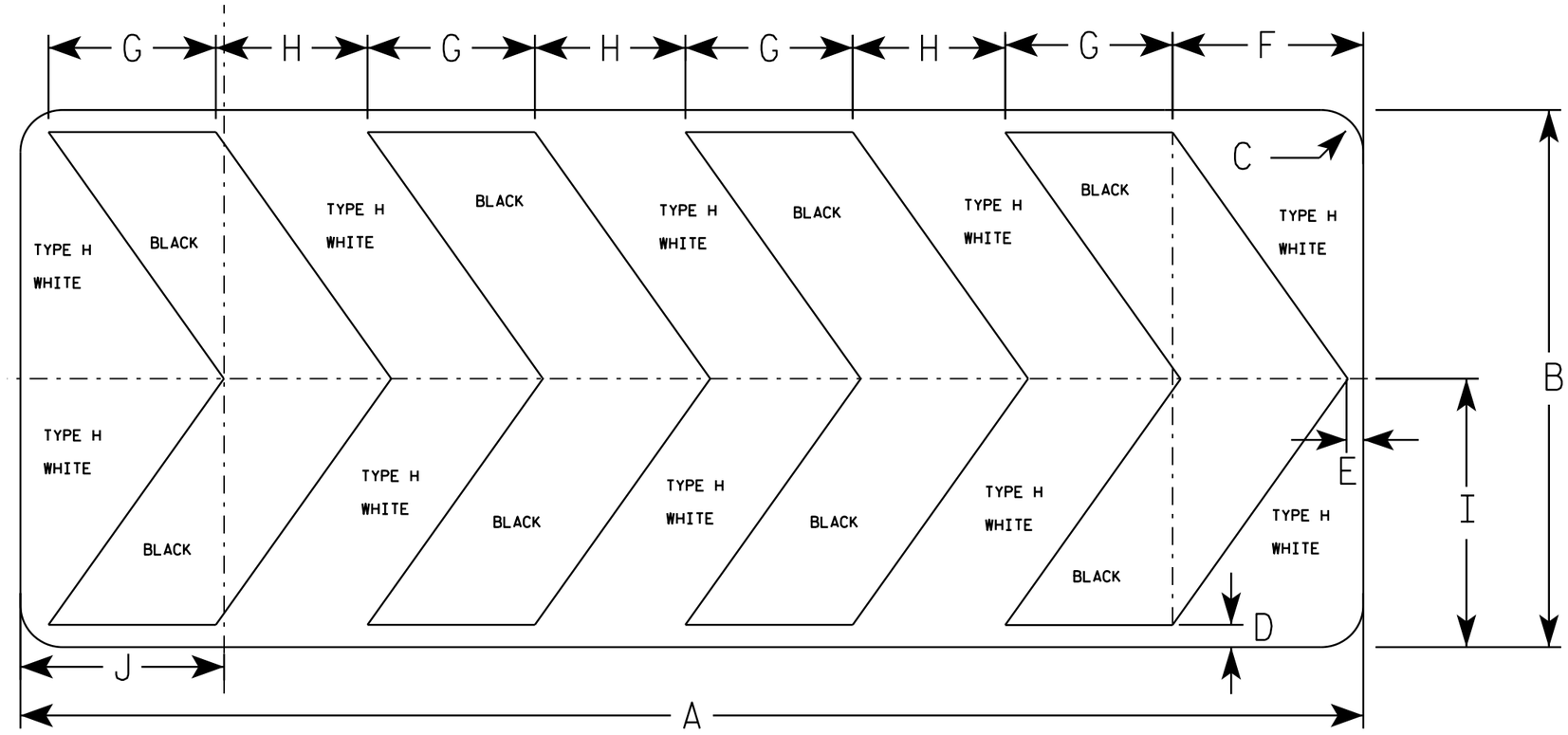
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 316	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   Message - BLACK
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-4B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

STANDARD SIGN
R6-4B

WISCONSIN DEPT OF TRANSPORTATION

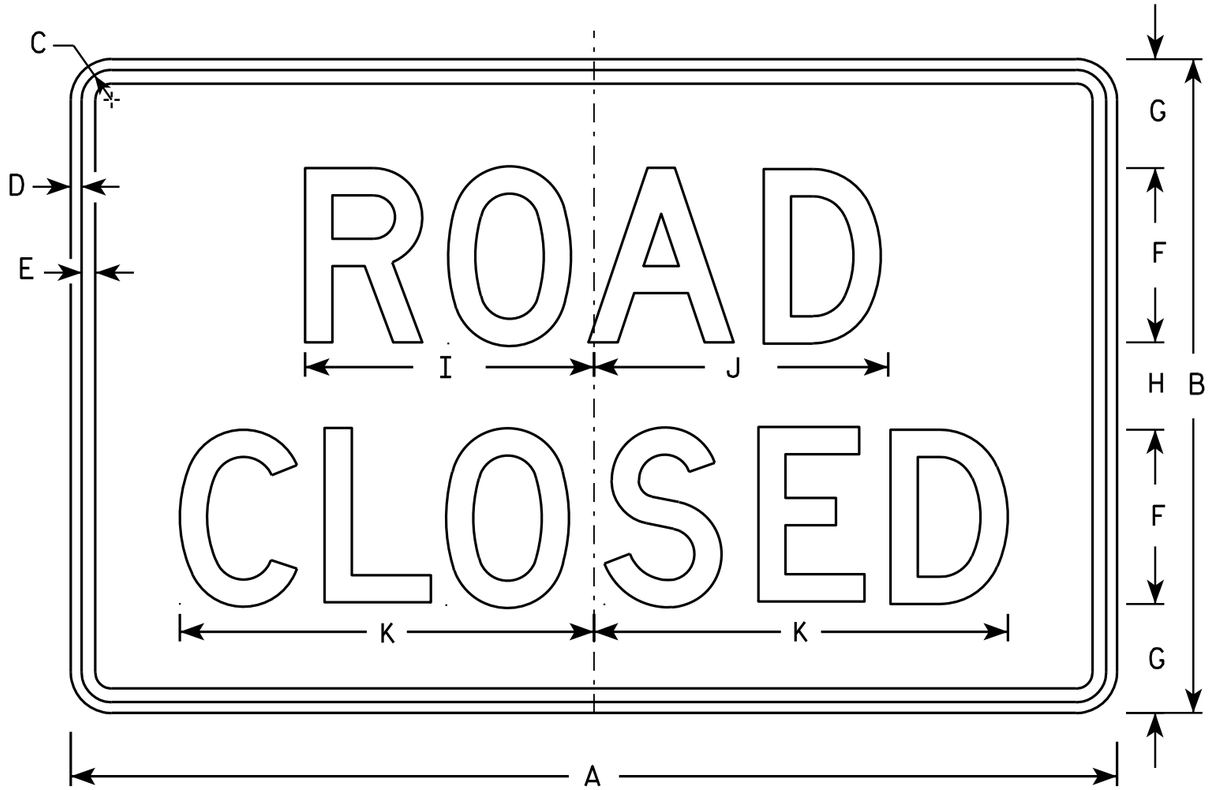
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/14 PLATE NO. R6-4.3

PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R64B.DGN PLOT DATE : 21-AUG-2014 15:01 PLOT BY : mscsja

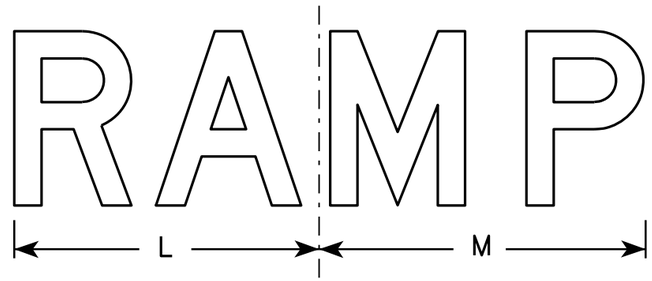
WISDOT/CADDS SHEET 42



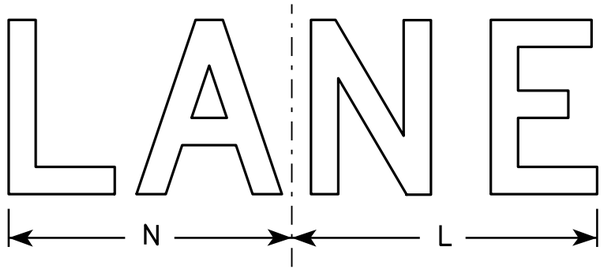
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

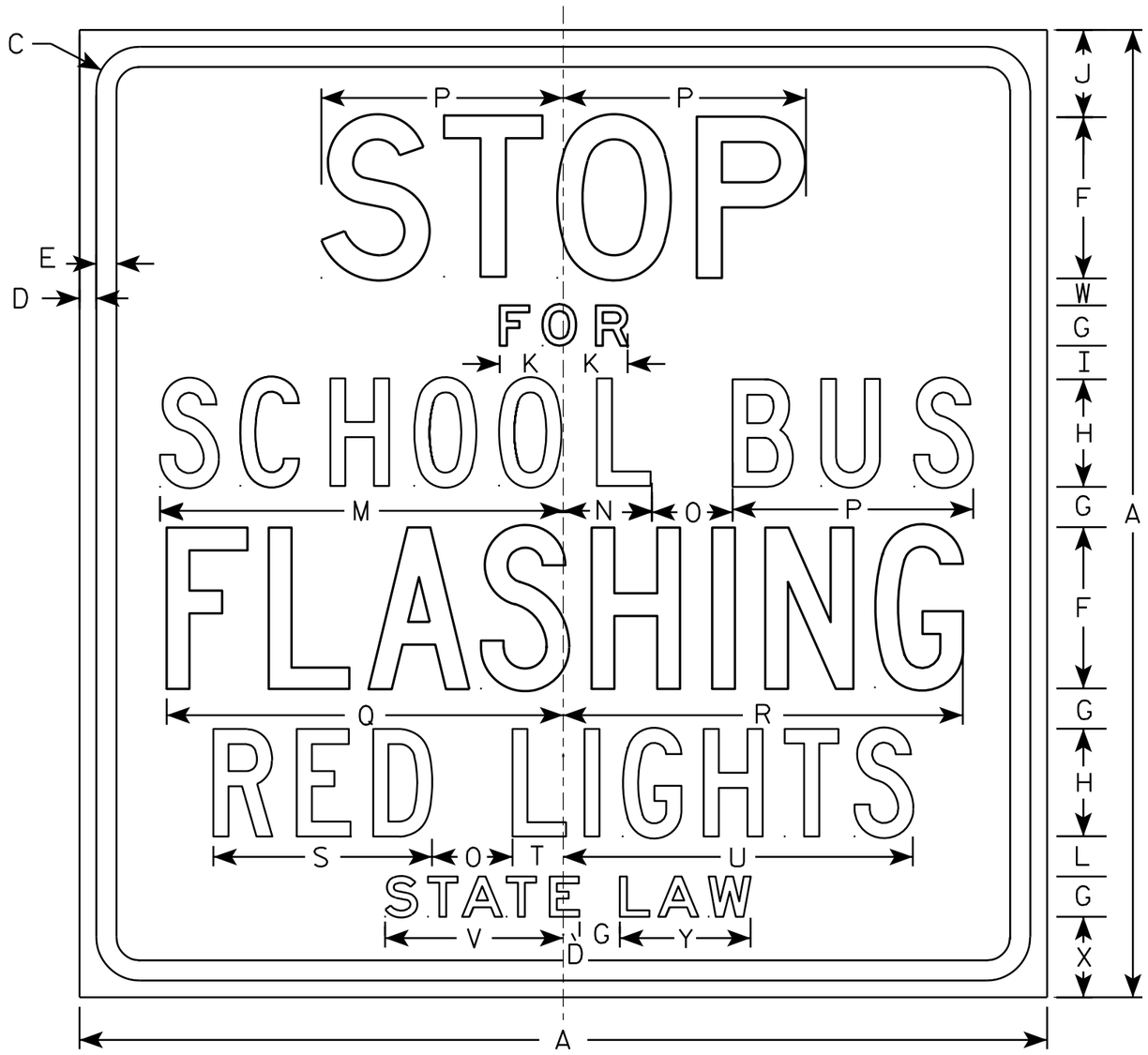
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 318 | E



R59-51

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D
   Lines 2 & 6 are Series E
   Line 3, 4 & 5 are Series C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
2M	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
3	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
4	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
5																											

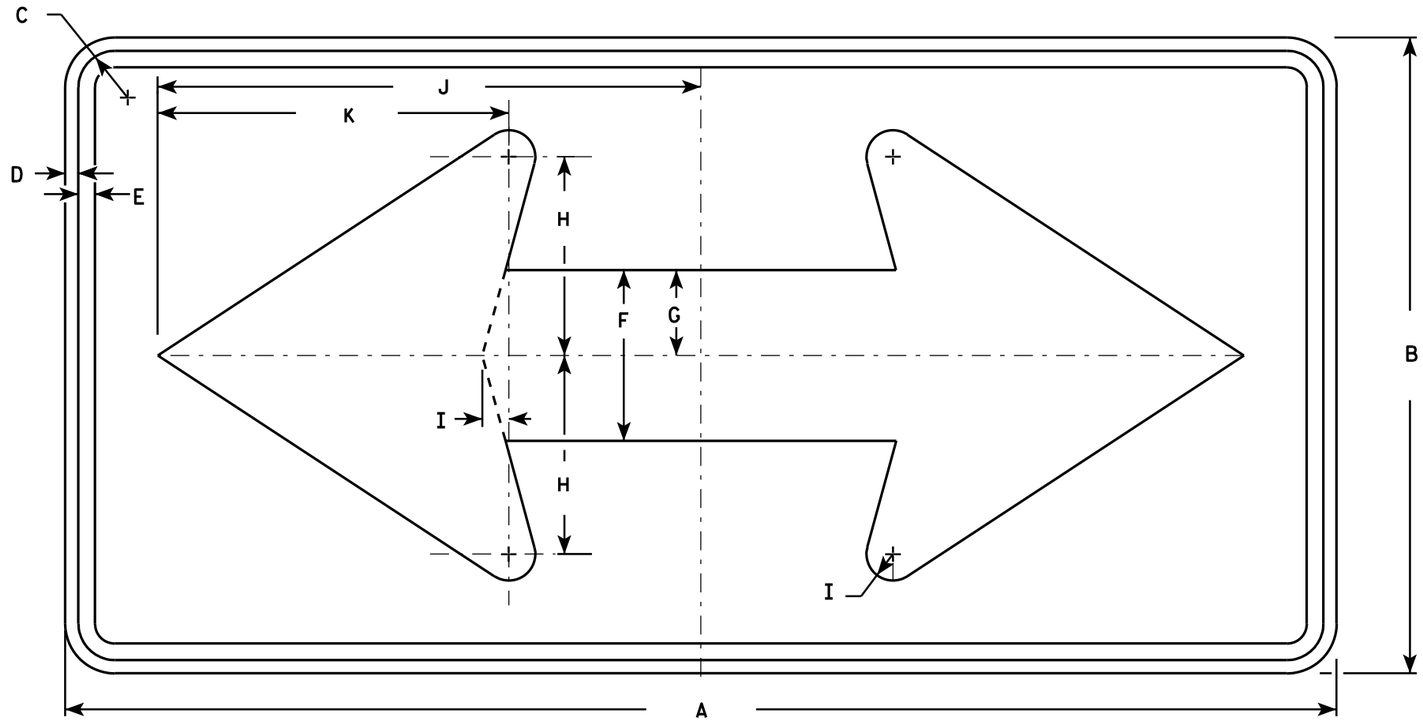
STANDARD SIGN
R59-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/30/11 PLATE NO. R59-51.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 319 | E



W1-7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

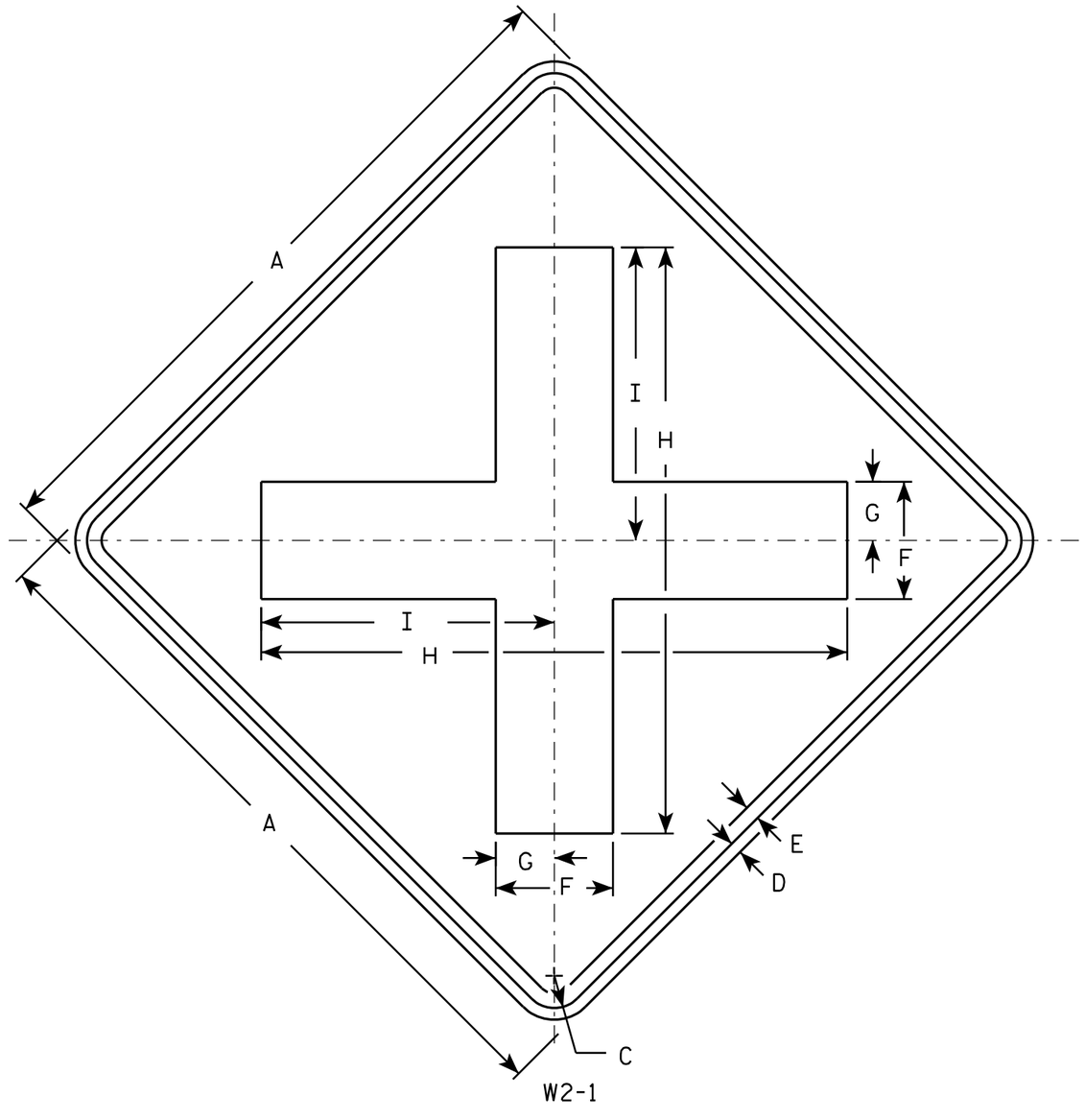
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 320 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	4	2	20	10																		4.0
2S	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3	30	15																		9.0
4	48		2 1/4	3/4	1	8	4	40	20																		16.0
5																											

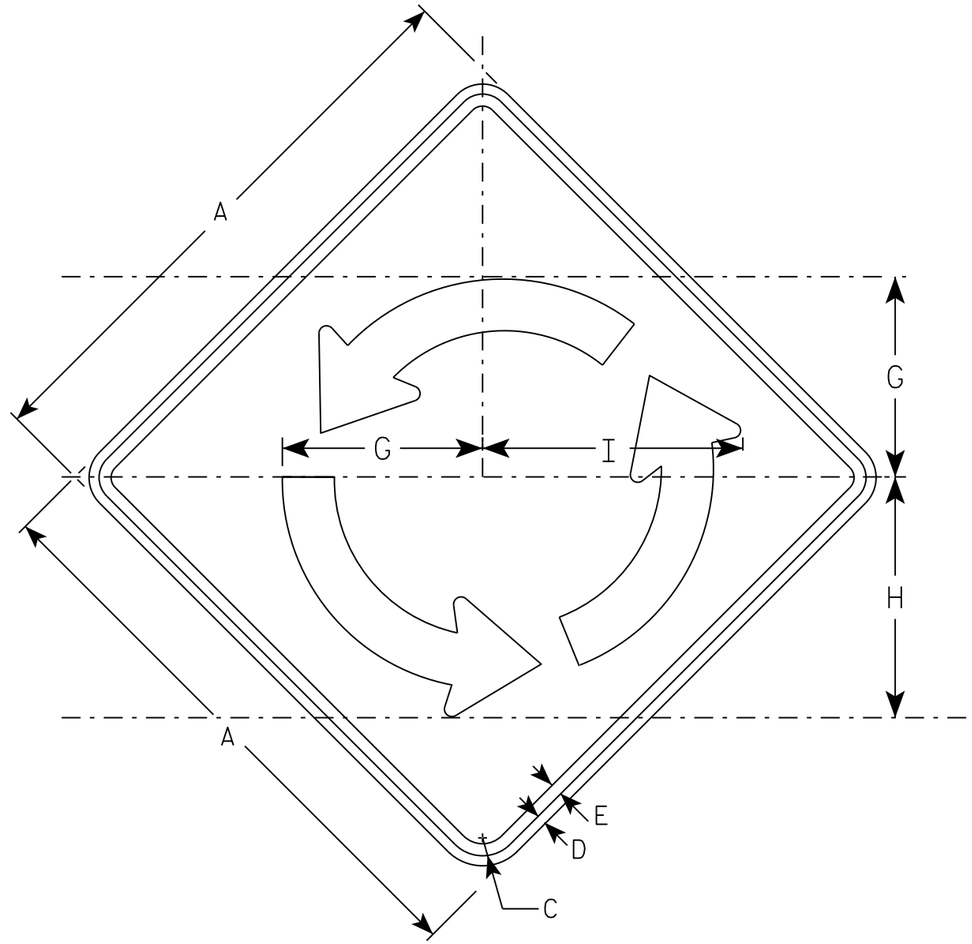
STANDARD SIGN
W2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 321	E



W2-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - YELLOW
   Message - BLACK

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Area sq. ft.
1																									
2S	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2																6.25
2M	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2																6.25
3	36		1 5/8	5/8	3/4		12 1/2	15	16 1/4																9.00
4	48		2 1/4	3/4	1		16 5/8	20	16 1/4																16.0
5																									

STANDARD SIGN
W2-6

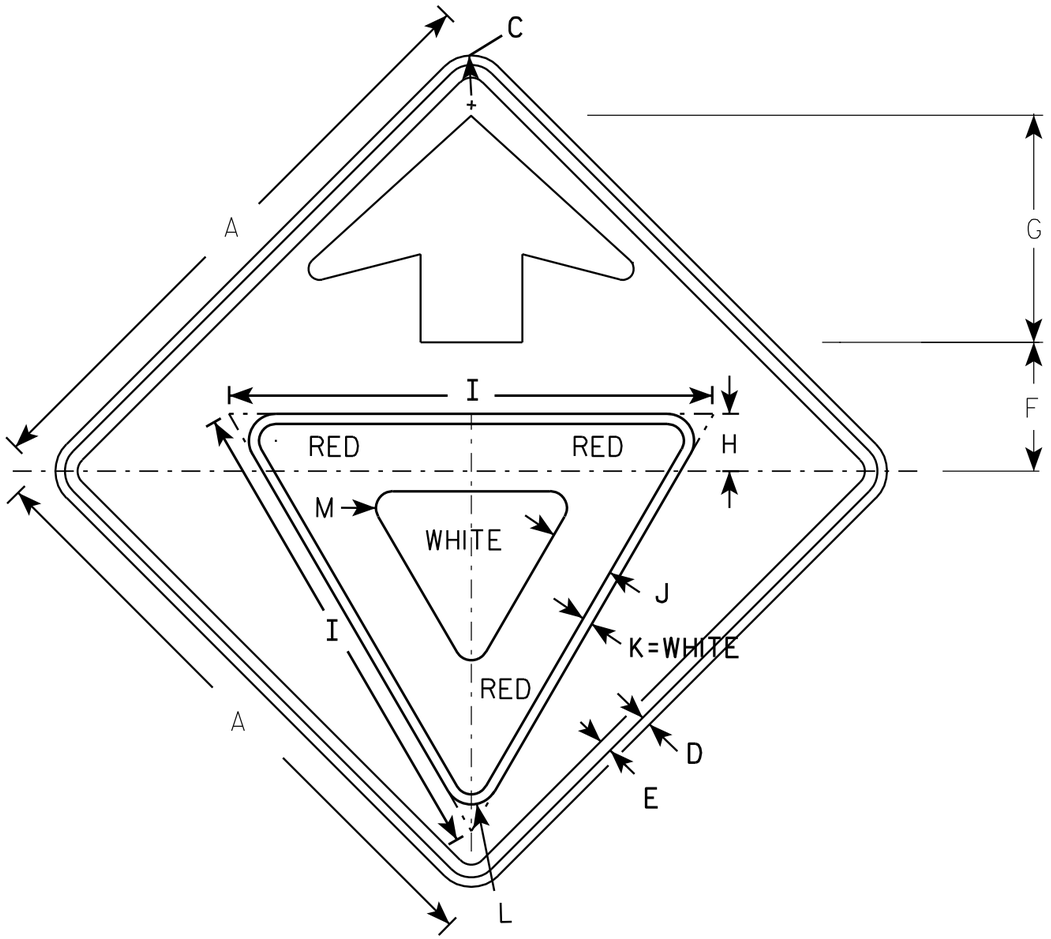
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. W2-6.6

PROJECT NO:

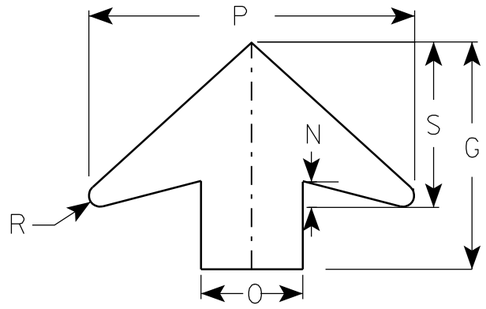
SHEET NO: 322 E



W3-2

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	3	25	3 3/8	1/2	1 3/8	7/8	1 1/4	5	16		1/2	8								6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W3-2

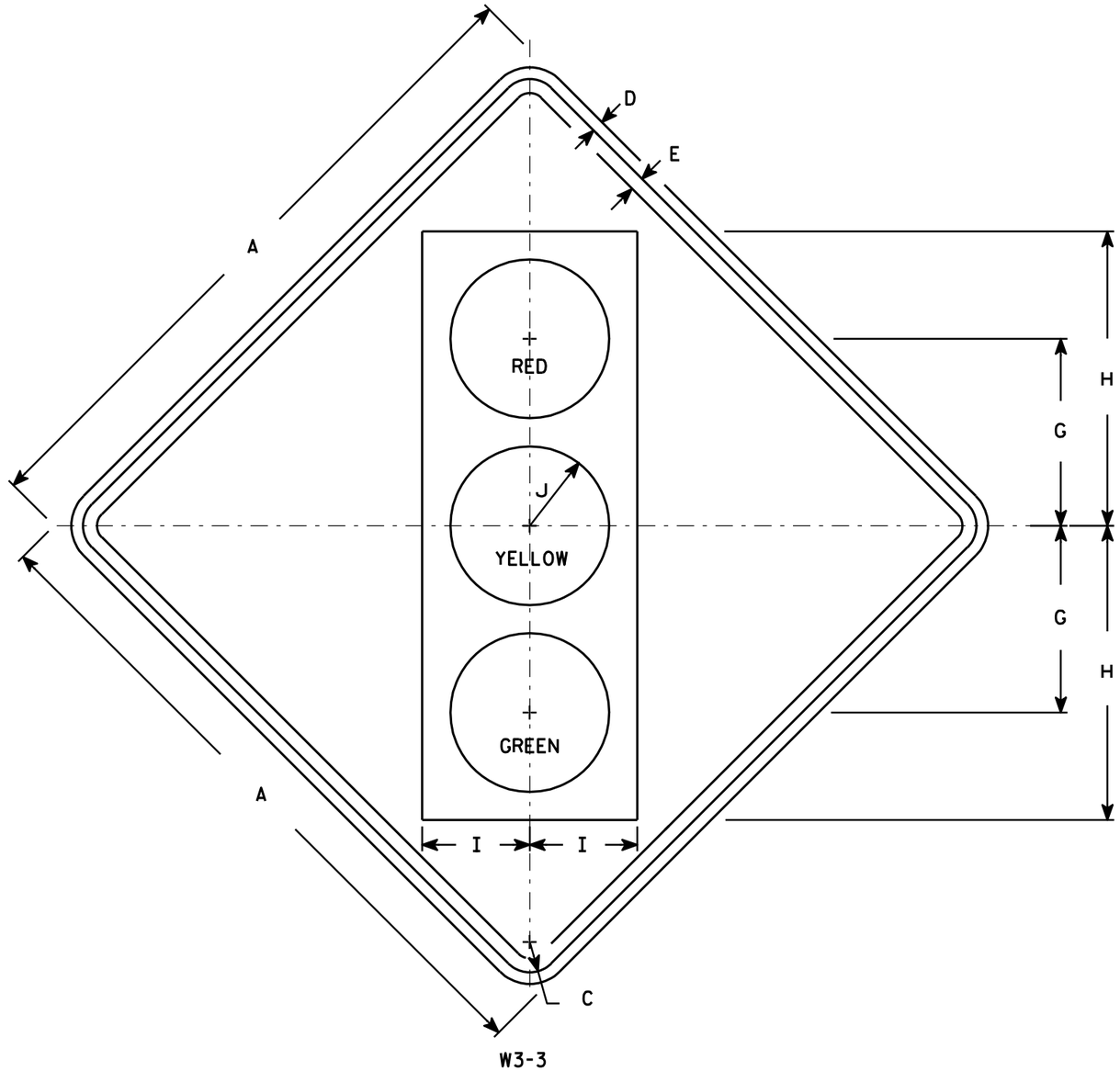
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-2..9

PROJECT NO:

SHEET NO: 323 E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

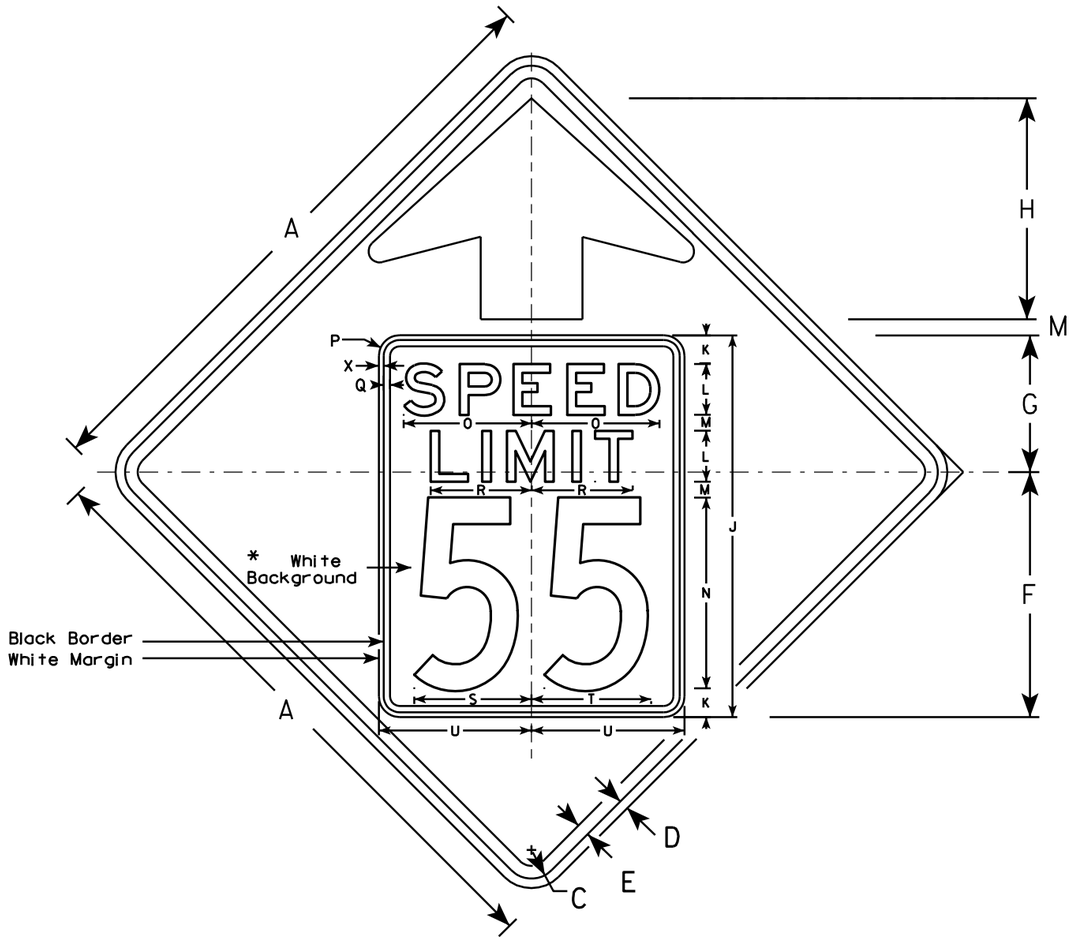
STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 324 | E

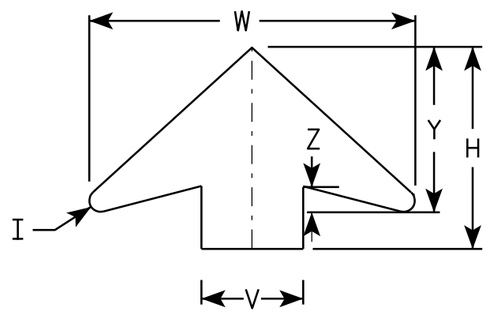


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - YELLOW*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

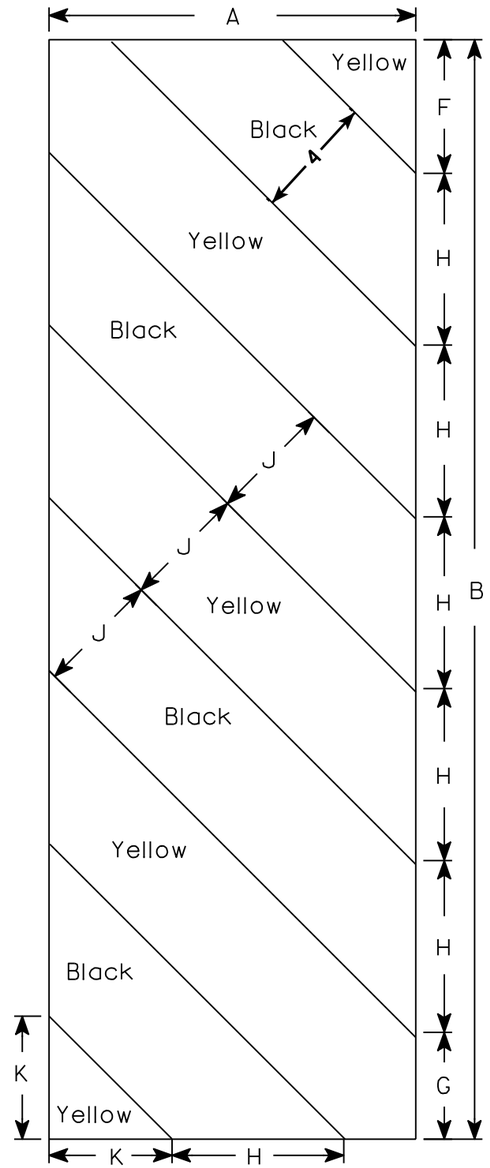
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

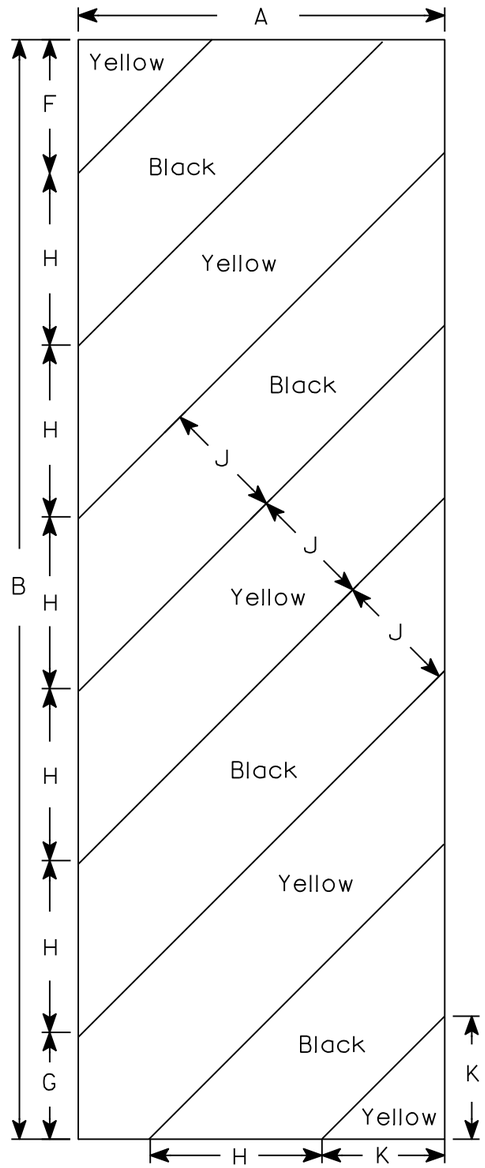
DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 325 E



W5-52L



W5-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

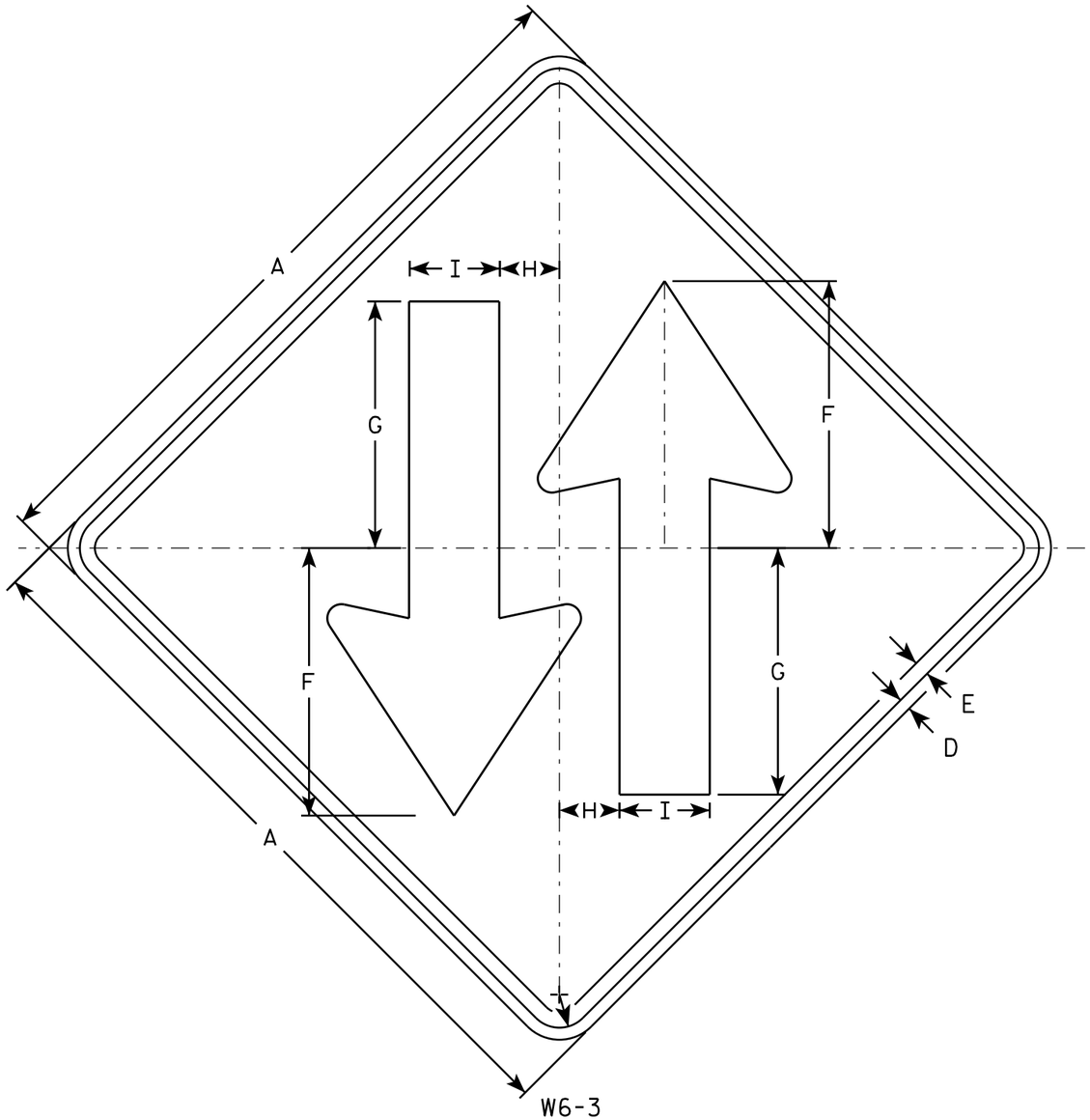
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

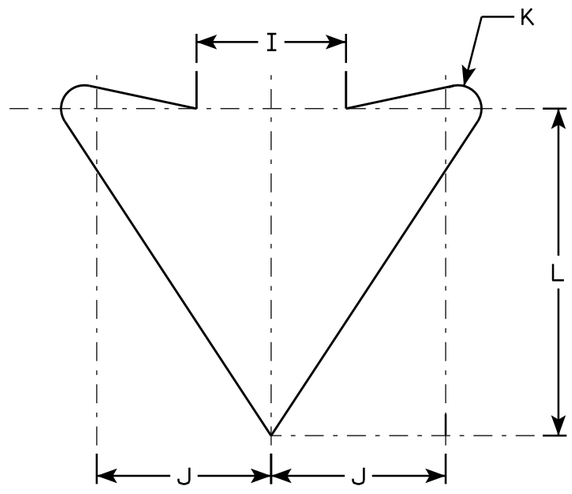
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 326	E



W6-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
2M	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
3																											
4	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0
5	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0

STANDARD SIGN
W6-3

WISCONSIN DEPT OF TRANSPORTATION

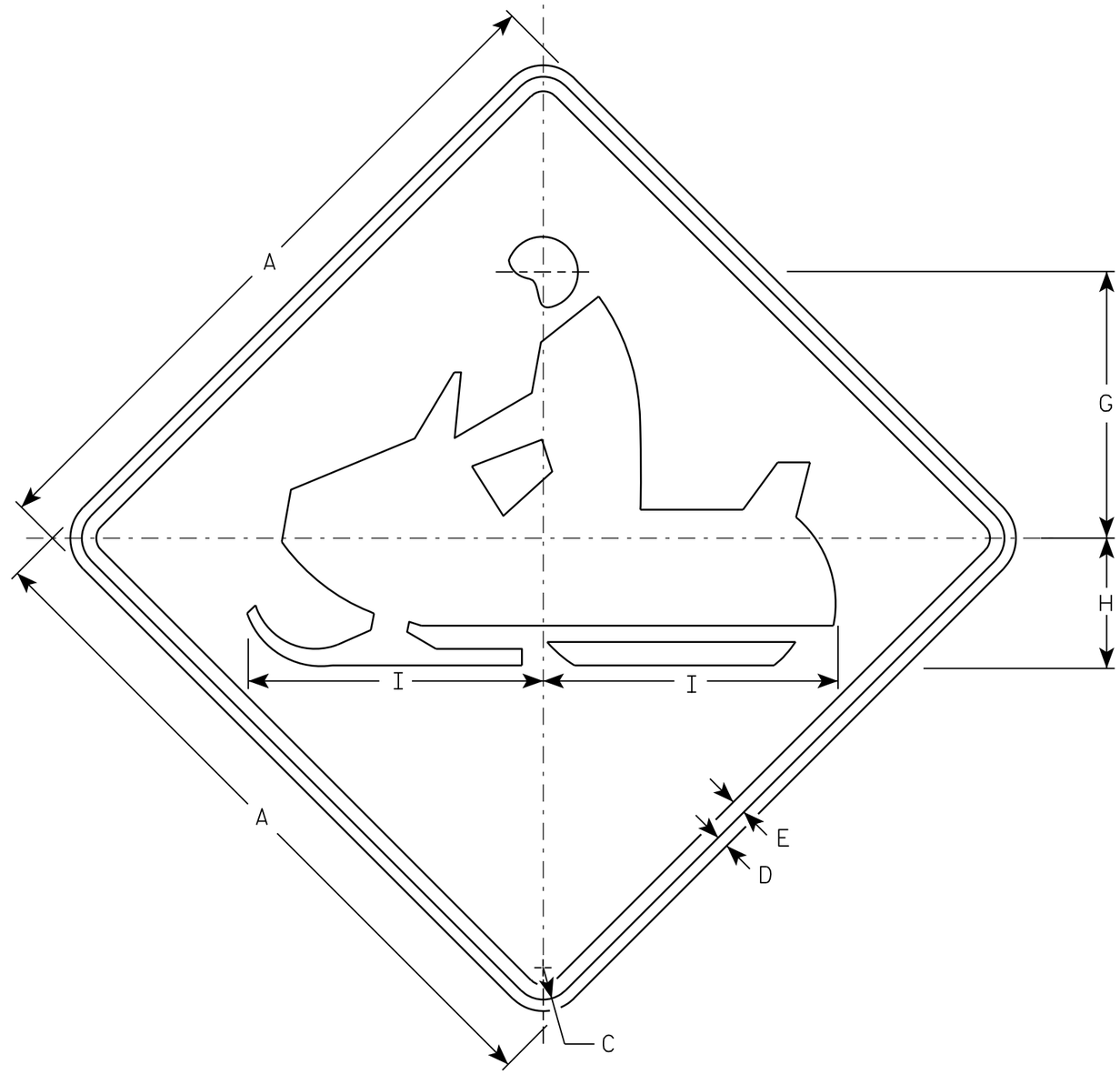
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE W6-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W63.DGN PLOT DATE : 10-MAR-2016 14:01 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.080757:1.000000 WISDOT/CADDS SHEET 42



W11-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		9 1/2	4 1/2	10 1/4																		4.0
2S	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
2M	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
3	36		1 5/8	5/8	3/4		14 1/8	6 3/4	15 1/4																		9.0
4	48		2 1/4	3/4	1		19	9	20 1/2																		16.0
5																											

STANDARD SIGN
W11-6

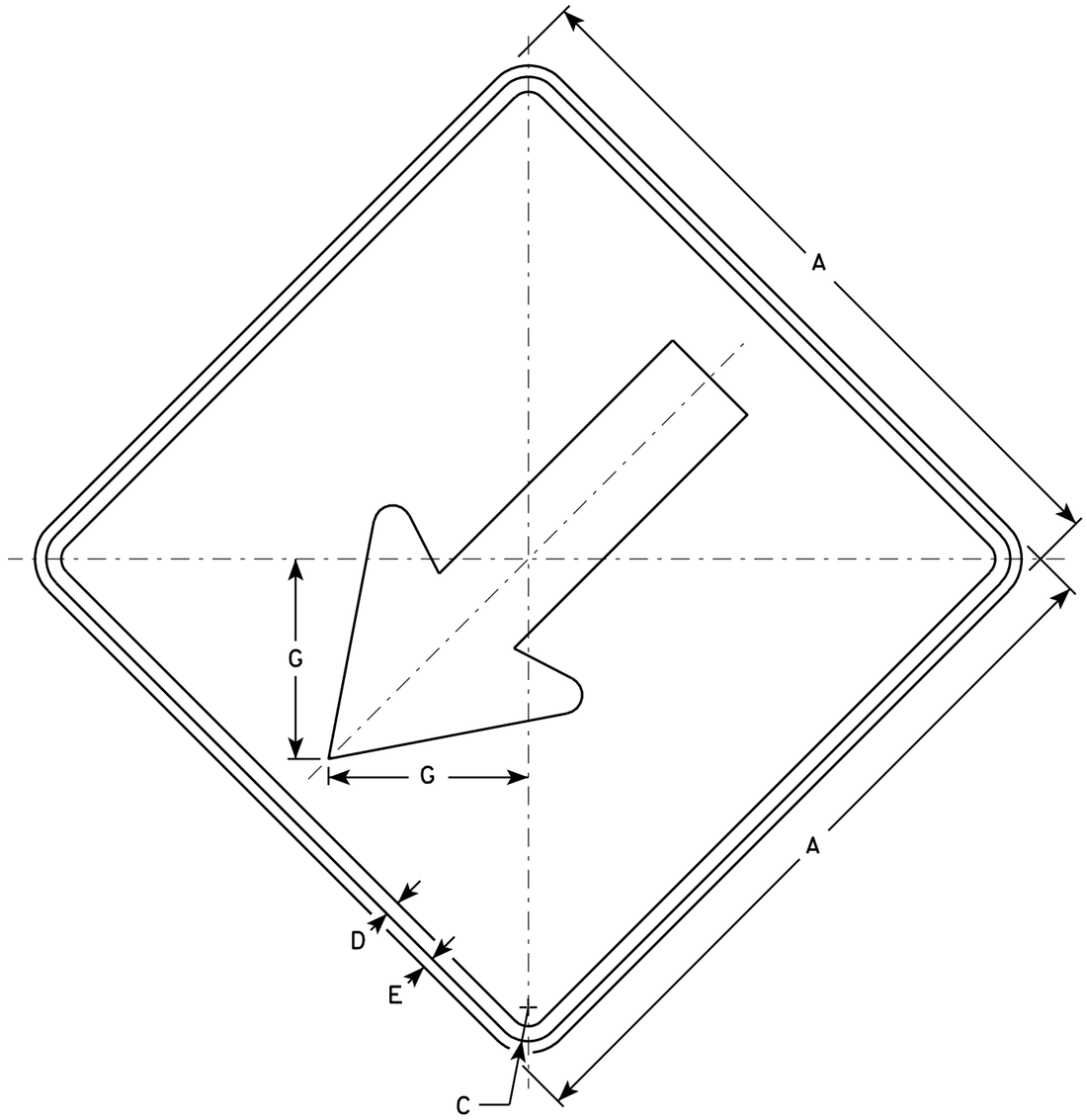
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-6.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 328 | E

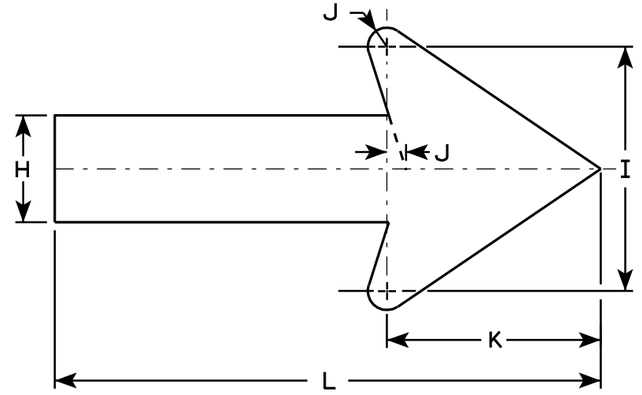
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W116.DGN PLOT DATE : 13-MAR-2013 12:57 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.954276:1.000000
WISDOT/CADDS SHEET 42



W12-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		6 5/8	3 1/2	8	5/8	7	18															4
2M	24		1 1/8	1/2	3/8		6 5/8	3 1/2	8	5/8	7	18															4
3	30		1 3/8	5/8	1/2		8 1/4	4 3/8	10	3/4	8 3/4	22 3/8															6.25
4	36		1 3/4	3/4	5/8		10 3/8	5 1/2	12 1/2	1	11	27 7/8															9.0
5	48		2 1/4	3/4	1		12 1/2	6 5/8	15	1 1/4	13 1/4	33 1/2															16

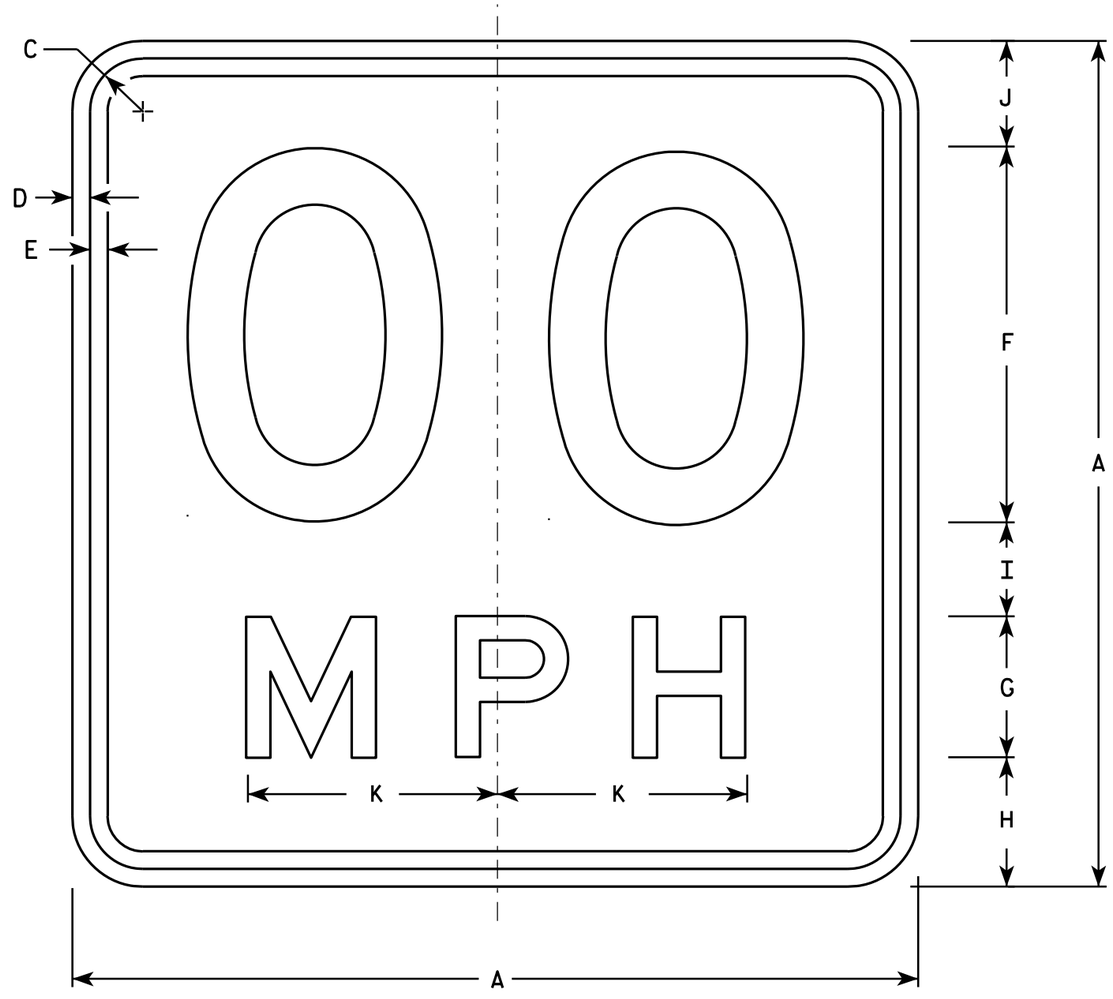
STANDARD SIGN
W12-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 329 | E



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

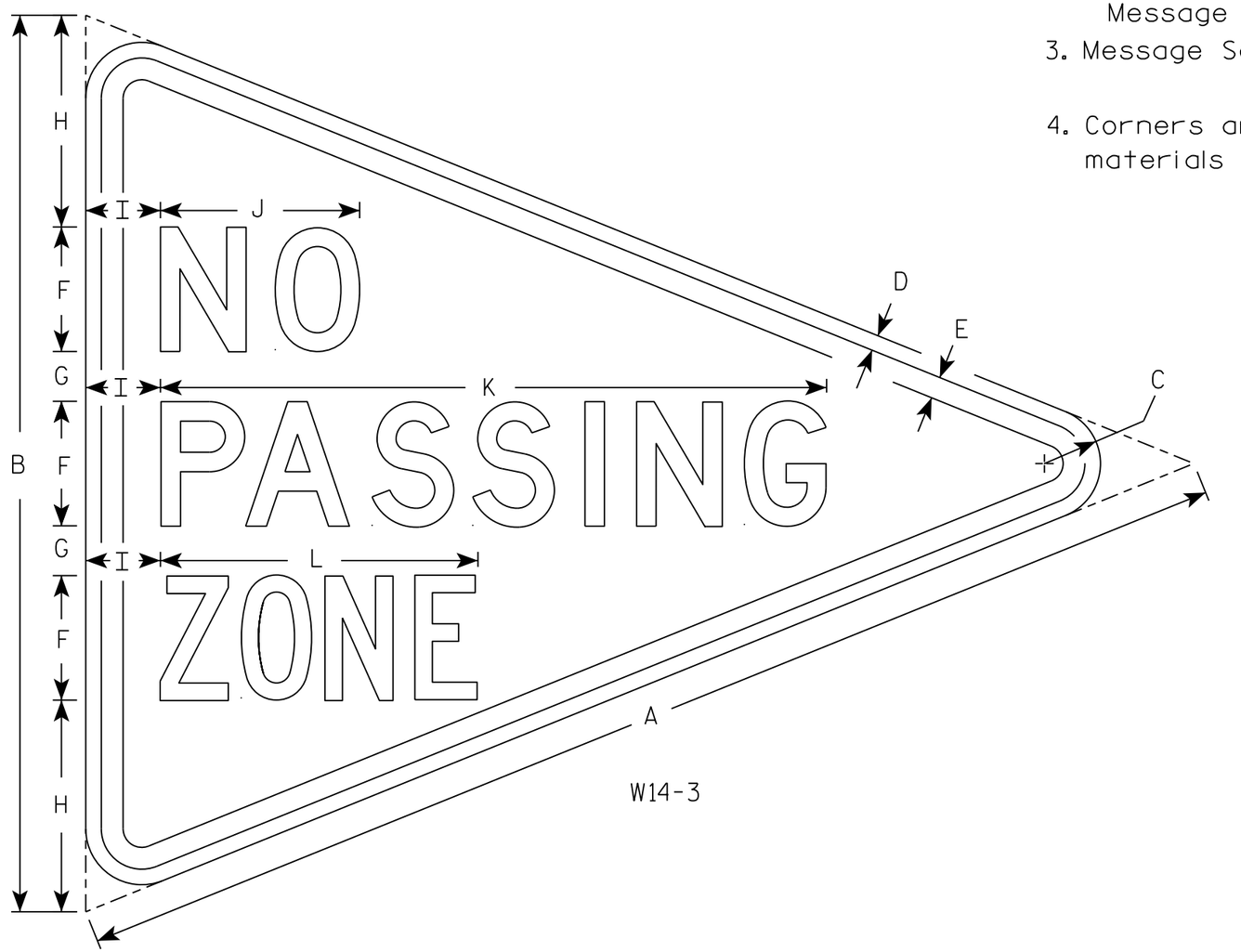
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 330 | E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

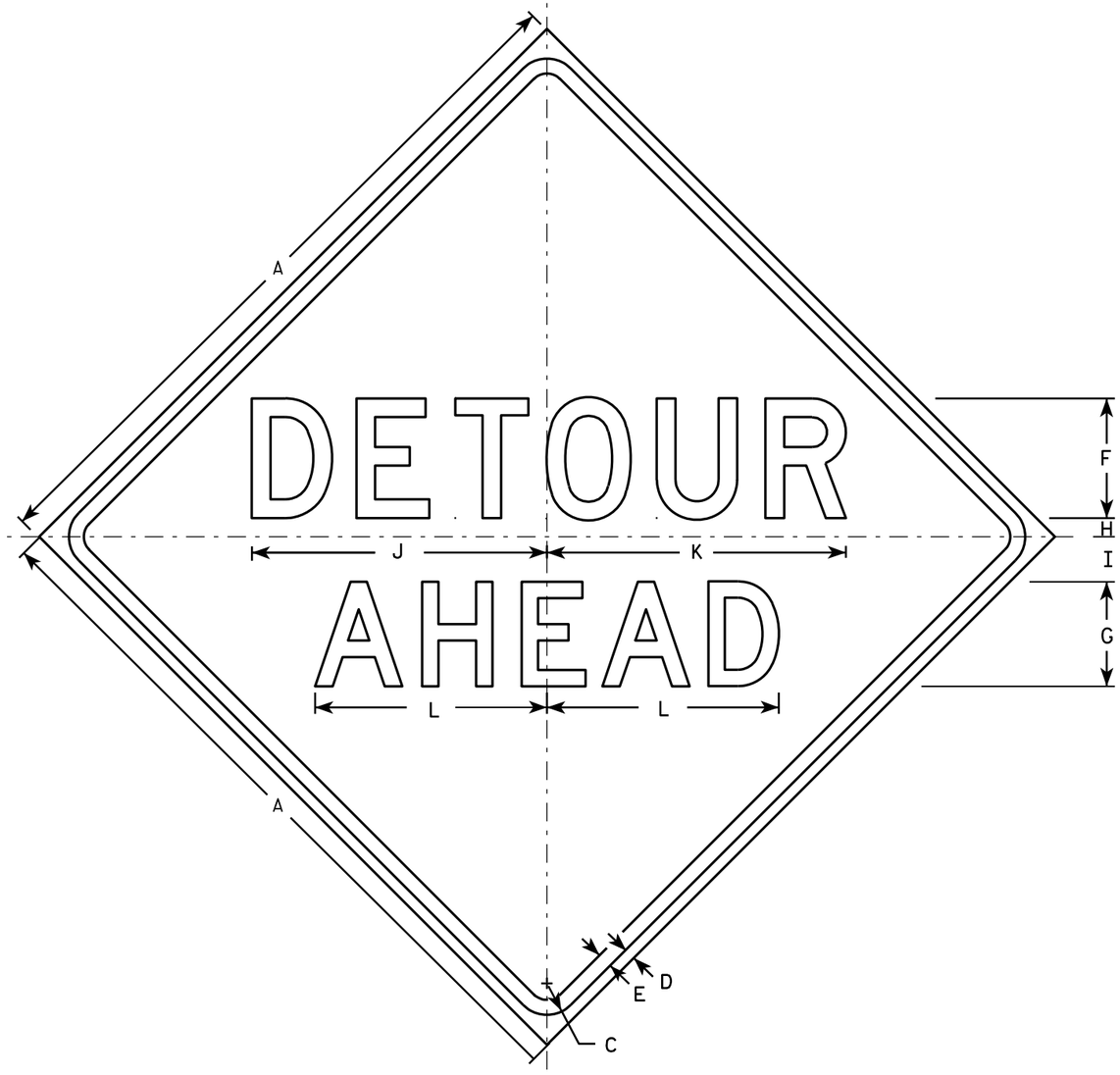
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

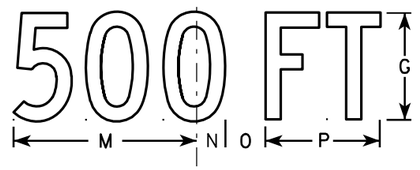
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

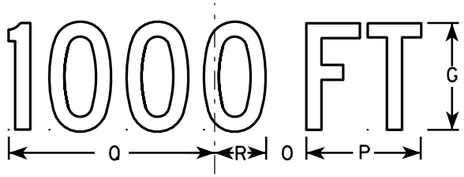
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 331 | E



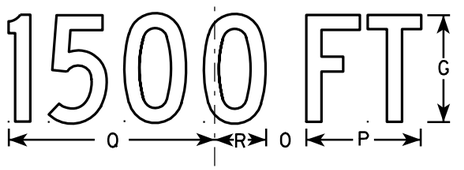
W20-2A



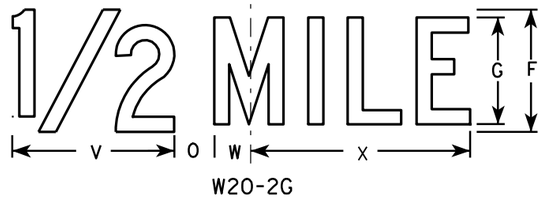
W20-2D



W20-2C



W20-2B



W20-2G

W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

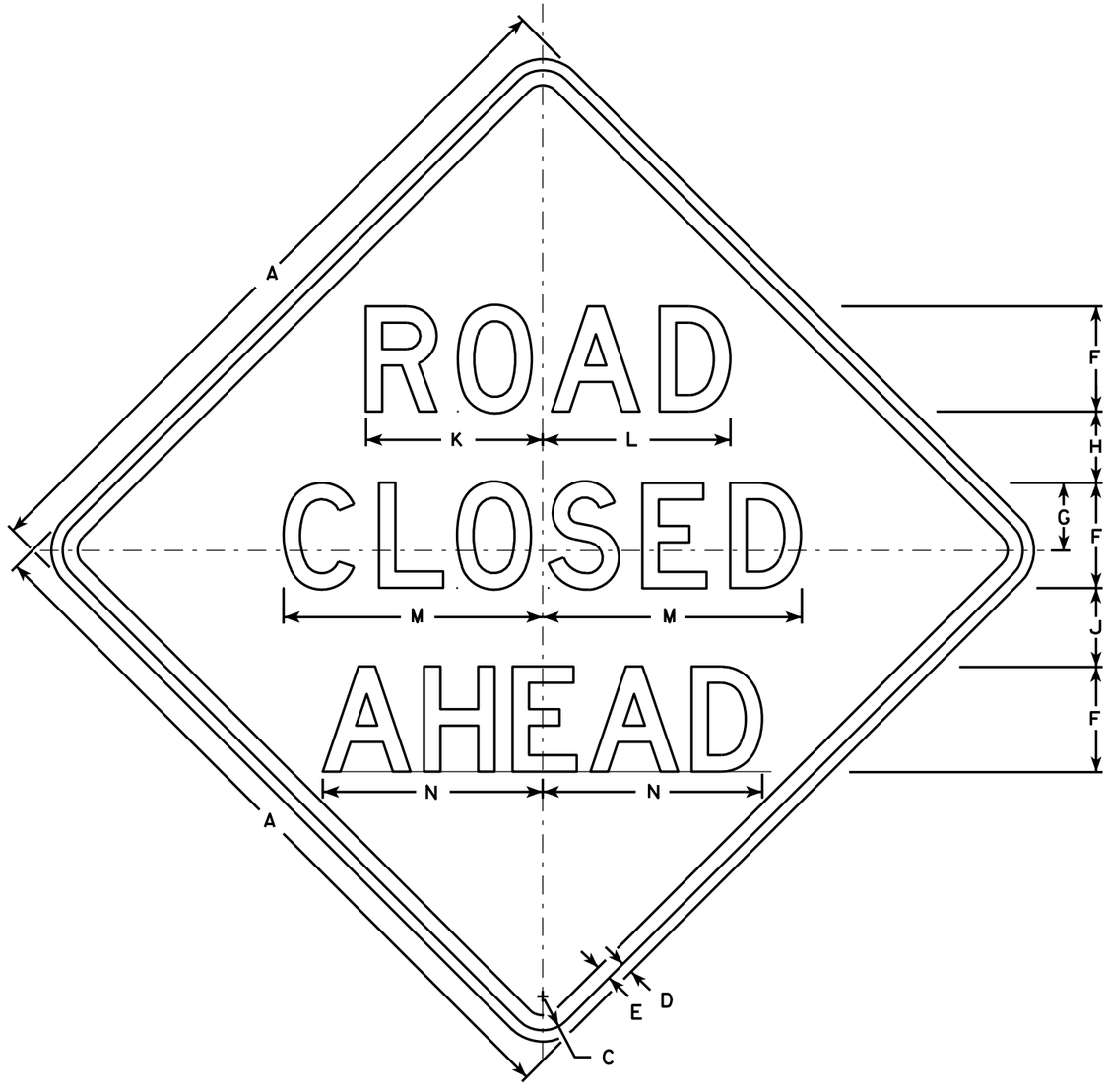
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

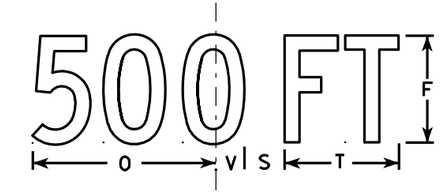
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 332 | E

7

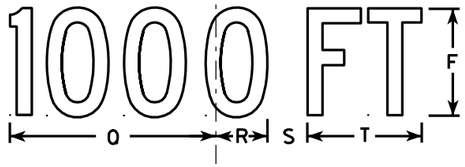
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W202.DGN PLOT DATE : 18-MAR-2011 10:00 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



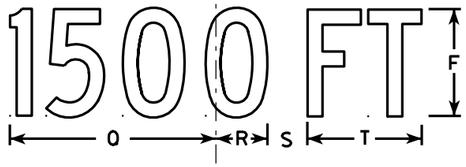
W20-3A



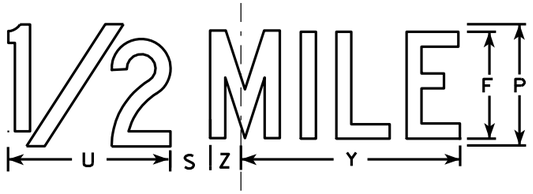
W20-3D



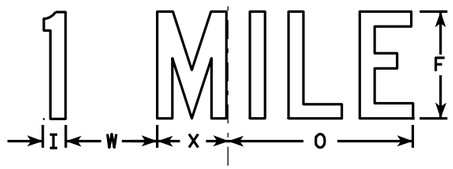
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

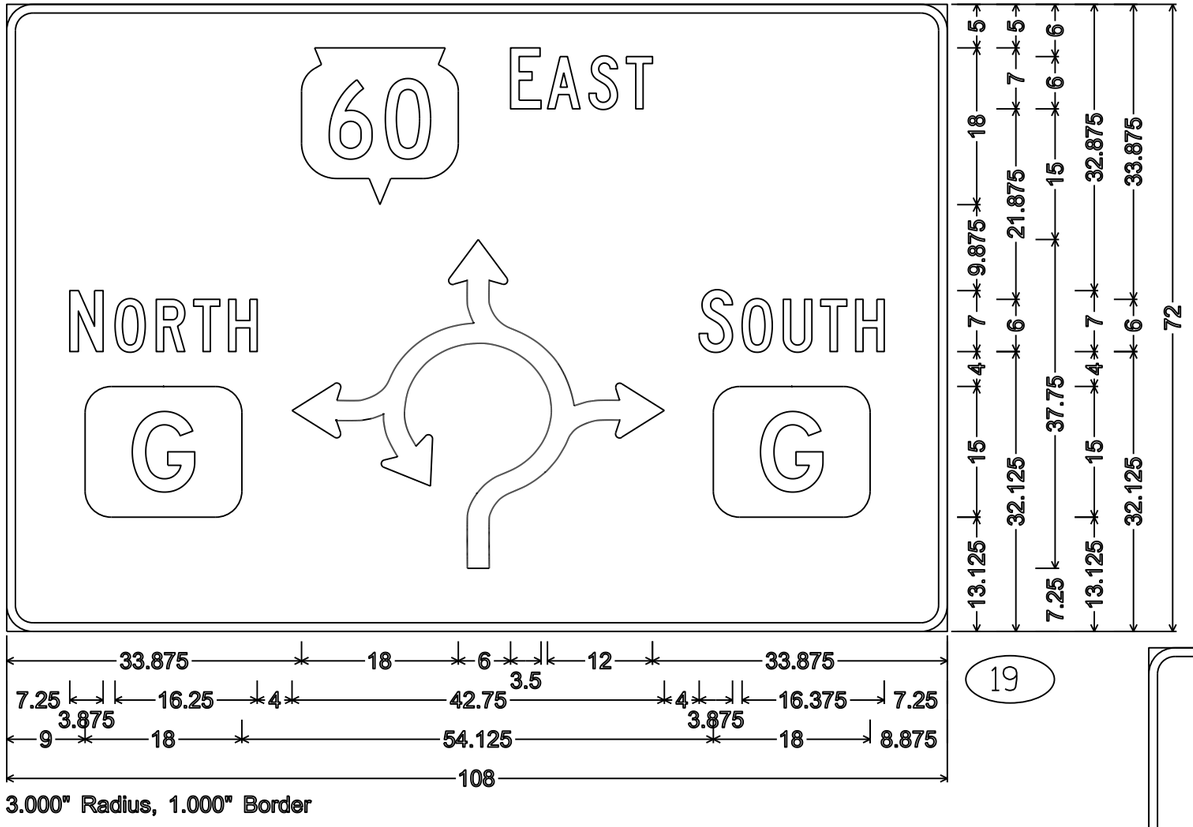
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 333 | E

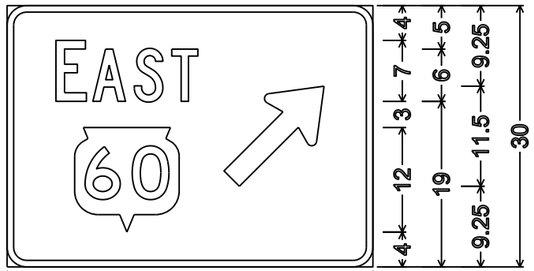


3.000" Radius, 1.000" Border

19

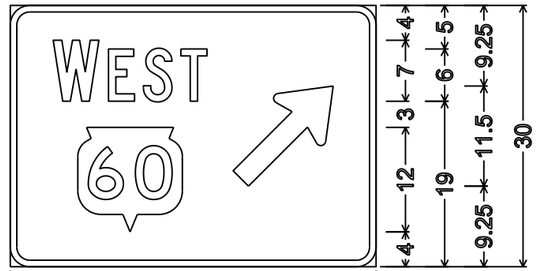
NOTES

1. Signs are Type II- Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - C



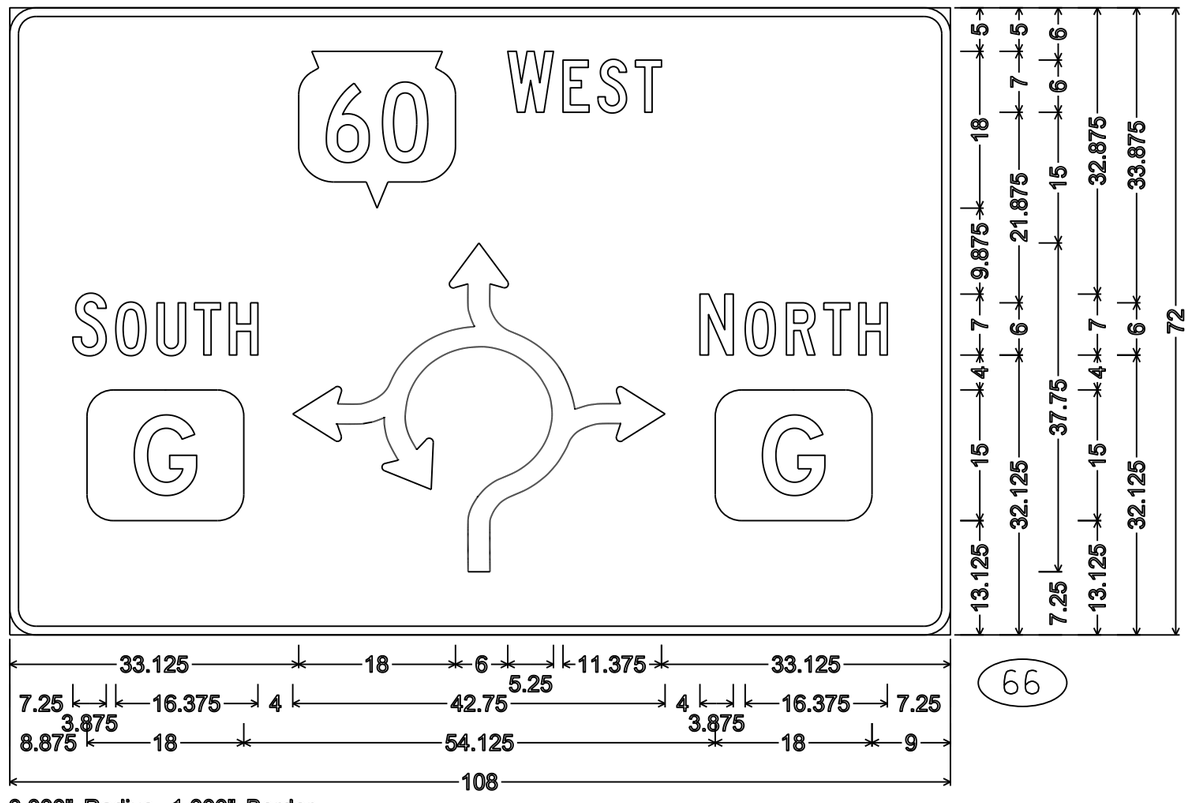
36

D1-1;
2.250" Radius, 0.750" Border



26

D1-1;
2.250" Radius, 0.750" Border



66

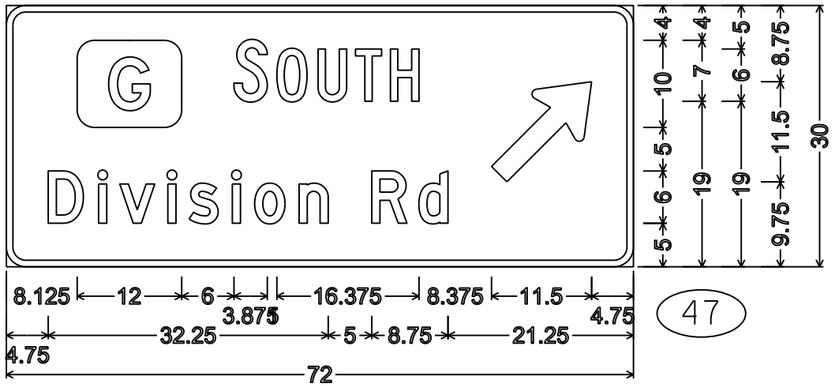
3.000" Radius, 1.000" Border

7

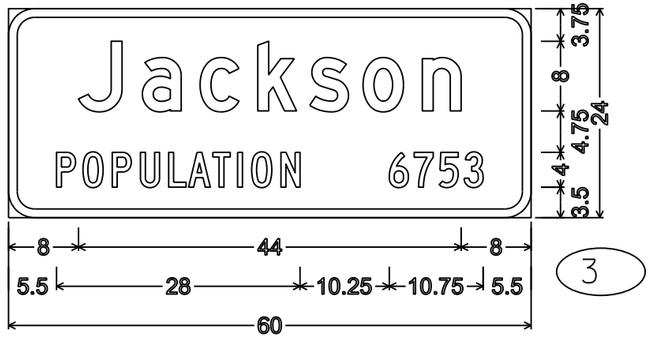
7

NOTES

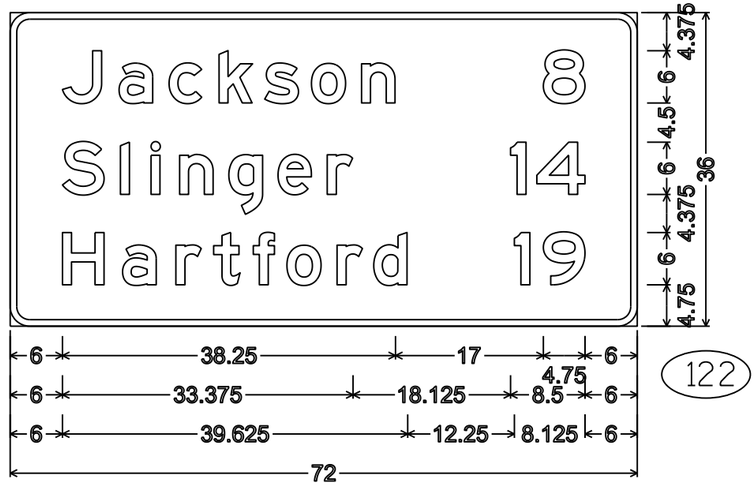
1. Signs are Type II- Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted



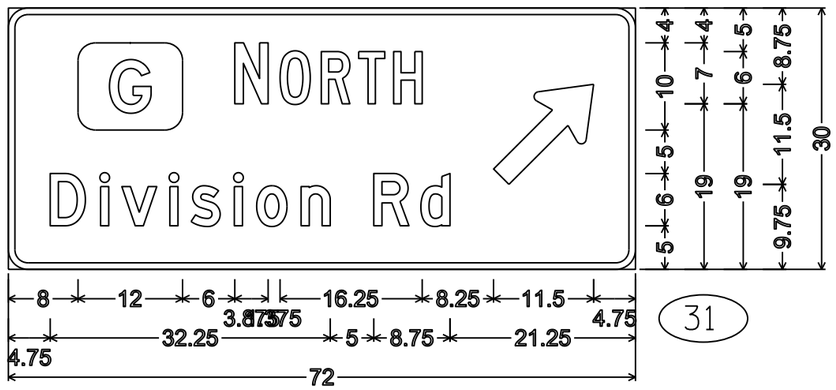
D1-2; 2.250" Radius, 0.750" Border,
"SOUTH" C; "Division" D; "Rd" D



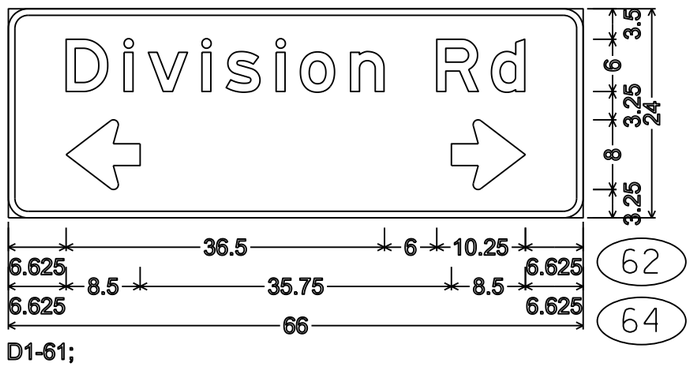
I2-3;
3.000" Radius, 1.000" Border,
"Jackson" D; "POPULATION" C ; "6753" C



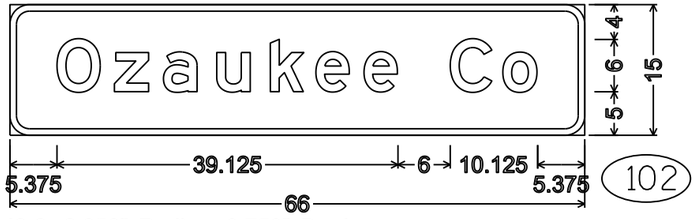
D2-3; 2.250" Radius, 0.750" Border



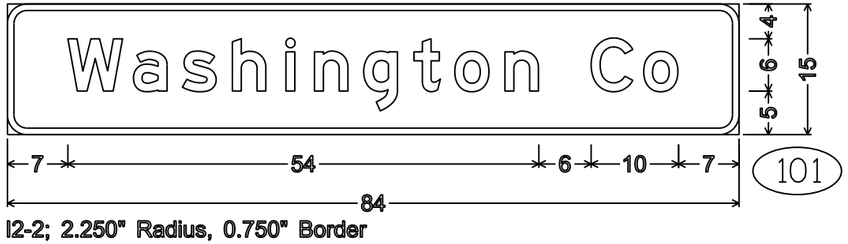
D1-2; 2.250" Radius, 0.750" Border,
"NORTH" C; "Division" D; "Rd" D



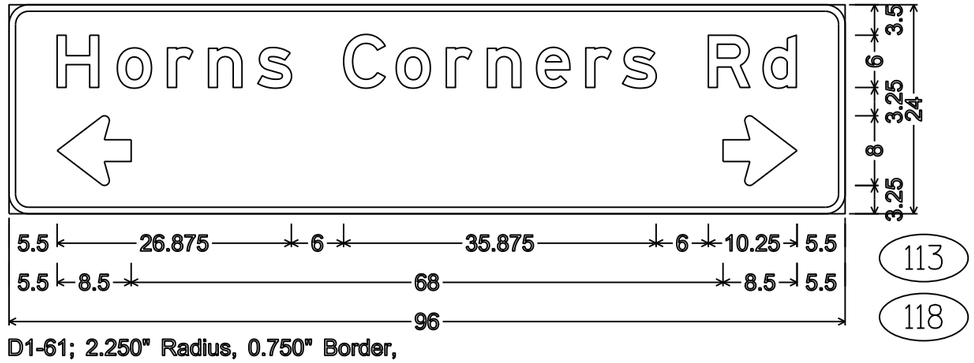
D1-61;
2.250" Radius, 0.750" Border



I2-2; 2.250" Radius, 0.750" Border



I2-2; 2.250" Radius, 0.750" Border



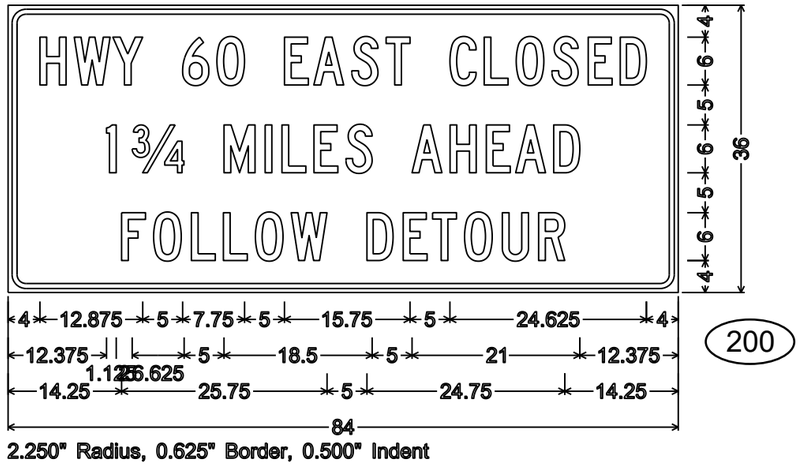
D1-61; 2.250" Radius, 0.750" Border,
"Horns" E; "Corners" E; "Rd" E

7

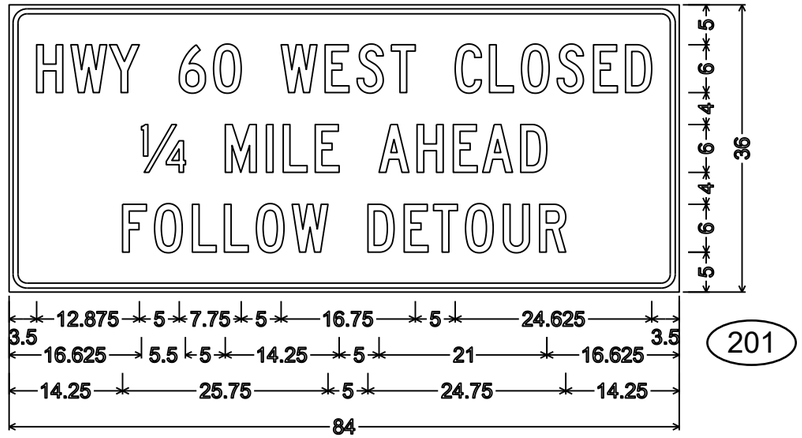
7

NOTES

1. All Signs Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C



2.250" Radius, 0.625" Border, 0.500" Indent



2.250" Radius, 0.625" Border, 0.500" Indent

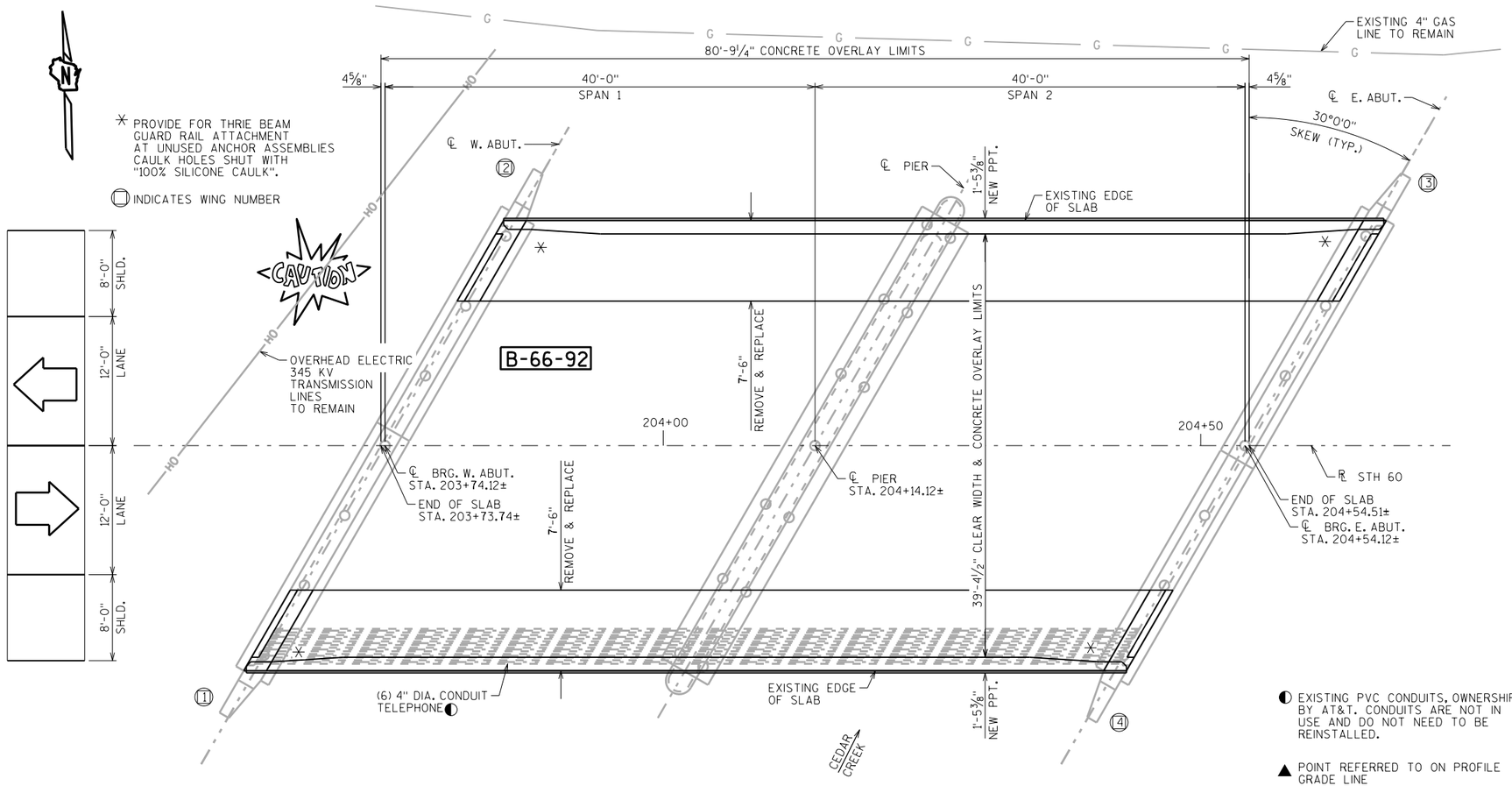
7

7

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	TEMPORARY SIGNING	SHEET NO: 336	E

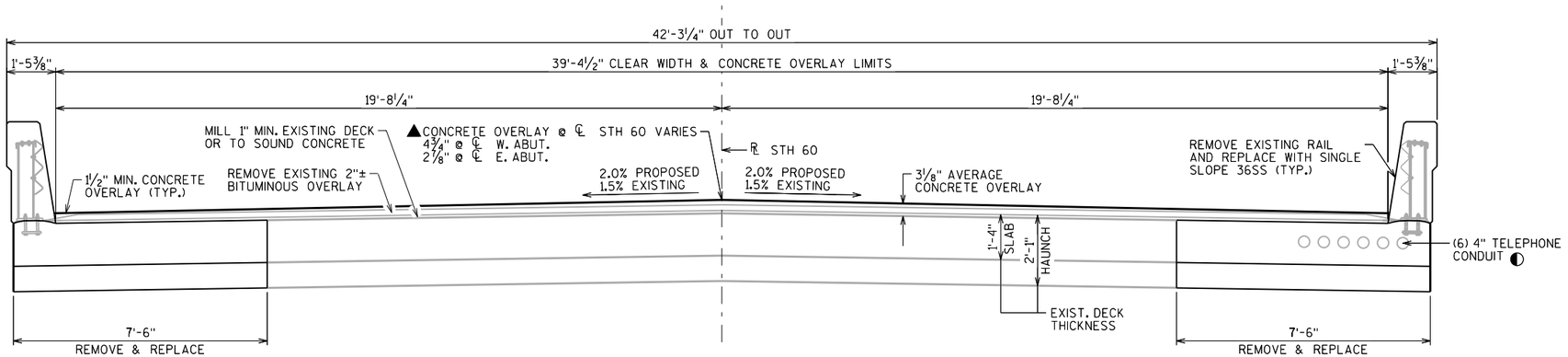
STATE PROJECT NUMBER

2310-17-70



PLAN

CONCRETE OVERLAY & RAILING REPLACEMENT



CROSS SECTION THRU B-66-92

(LOOKING EAST)

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
INVENTORY RATING: HS-20
OPERATING RATING: HS-27
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 210 (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.

TRAFFIC VOLUME

STH 60

ADT = 11,400 (2040)
R.D.S. = 60 M.P.H.

LIST OF DRAWINGS

1. RAILING RETROFIT & CONCRETE OVERLAY
2. GENERAL NOTES & QUANTITIES
3. SUPERSTRUCTURE DETAILS 1
4. SUPERSTRUCTURE DETAILS 2
5. SINGLE SLOPE PARAPET 36SS

STRUCTURE DESIGN CONTACTS:
DAN MONROE (608) 266-8490
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS 10/18/19
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-66-92

STH 60 OVER CEDAR CREEK

COUNTY	TOWN
WASHINGTON	JACKSON

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
DLM	DMB	DLM	DMB

RAILING RETROFIT & CONCRETE OVERLAY

SHEET 1 OF 5

337

I.D. 2310-17-00A DATE: MAY 2018

SCALE = 6

8

8

STATE PROJECT NUMBER

2310-17-70

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0500.S	REMOVING OLD STRUCTURE OVER WATERWAY STA. 203+74	LS	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-66-92	LS	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	10
502.0100	CONCRETE MASONRY BRIDGES	CY	83
502.3200	PROTECTIVE SURFACE TREATMENT	SY	360
502.3210	PIGMENTED SURFACE SEALER	SY	74
502.4206	ADHESIVE ANCHORS NO. 6 BAR	EACH	160
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	22,700
509.0301	PREPARATION DECKS TYPE 1	SY	2
509.0302	PREPARATION DECKS TYPE 2	SY	2
509.0500	CLEANING DECKS	SY	354
◩ 509.1500	CONCRETE SURFACE REPAIR	SF	5
509.2000	FULL-DEPTH DECK REPAIR	SY	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	31
509.9010.S	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-66-92	SY	354
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6
606.0300	RIPRAP HEAVY	CY	30
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	4
	NON-BID ITEMS		
	FILLER	SIZE	1/2", 3/4"

◩ CONCRETE SURFACE REPAIR EXTENTS AND LOCATIONS TO BE DETERMINED BY FIELD ENGINEER.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL STRUCTURE PLANS.

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 3/4" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-66-92" SHALL BE THE EXISTING GROUNDLINE.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

THE EXISTING BITUMINOUS OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-66-92".

IT IS ASSUMED THAT THE EXISTING BITUMINOUS OVERLAY DID NOT INCLUDE MILLING OF THE EXISTING DECK. AFTER REMOVAL OF EXISTING BITUMINOUS OVERLAY, A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS". IF EVIDENCE IS FOUND THAT DOES NOT SUPPORT THIS ASSUMPTION, CONTACT THE BRIDGE OFFICE FOR GUIDANCE BEFORE CONTINUATION OF MILLING.

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, AND FULL-DEPTH DECK REPAIR AREAS SHALL BE DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

ALL CONCRETE REMOVAL SHALL BE DEFINED WITH A 1" SAWCUT, MEASURED FROM TOP OF EXISTING DECK AFTER EXISTING BITUMINOUS OVERLAY IS REMOVED.

INCORPORATE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN INTO NEW WORK.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE, UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

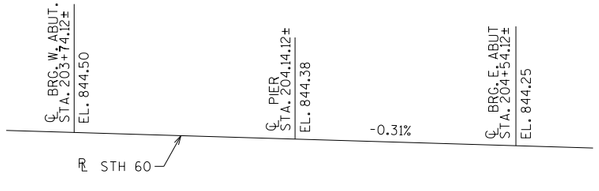
CONTACT THE BUREAU OF STRUCTURES BEFORE PLACEMENT OF OVERLAY IF THE AVERAGE THICKNESS OF THE NEW OVERLAY WILL EXCEED THE AVERAGE OVERLAY SHOWN ON THE PLANS BY MORE THAN 1/2".

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY & HORIZONTAL AND VERTICAL SURFACES OF PAVING NOTCH AT ABUTMENTS.

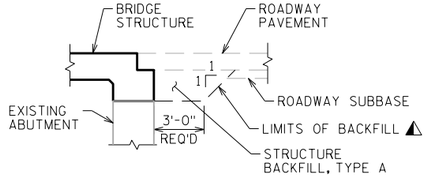
PIGMENTED PROTECTIVE SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS.

PLANS INDICATE 6 - 4" TELEPHONE CONDUITS LOCATED IN THE SOUTH EDGE OF EXISTING SLAB. (OWNERSHIP BY AT&T). CONDUITS ARE NOT IN USE AND DO NOT NEED TO BE REINSTALLED.

EXISTING HEAVY RIPRAP TO REMAIN IN PLACE. ADD ADDITIONAL AS REQUIRED TO RESTORE TOP OF RIPRAP ELEVATION TO 2'-6" BELOW TOP OF ABUTMENT, AS SHOWN IN DETAIL.

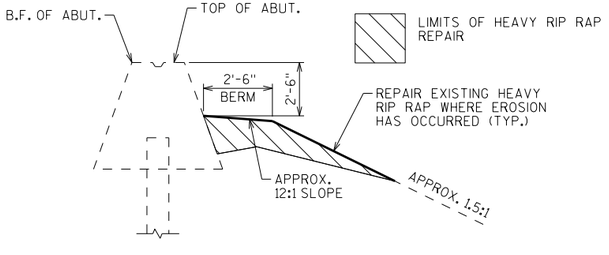


PROFILE GRADE LINE STH 60



TYPICAL SECTION THRU ABUTMENT

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



HEAVY RIP RAP AT ABUTMENTS (TYP.)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-66-92

DRAWN BY DLM | PLANS CK'D. DMB

GENERAL NOTES & QUANTITIES

SHEET 2

338

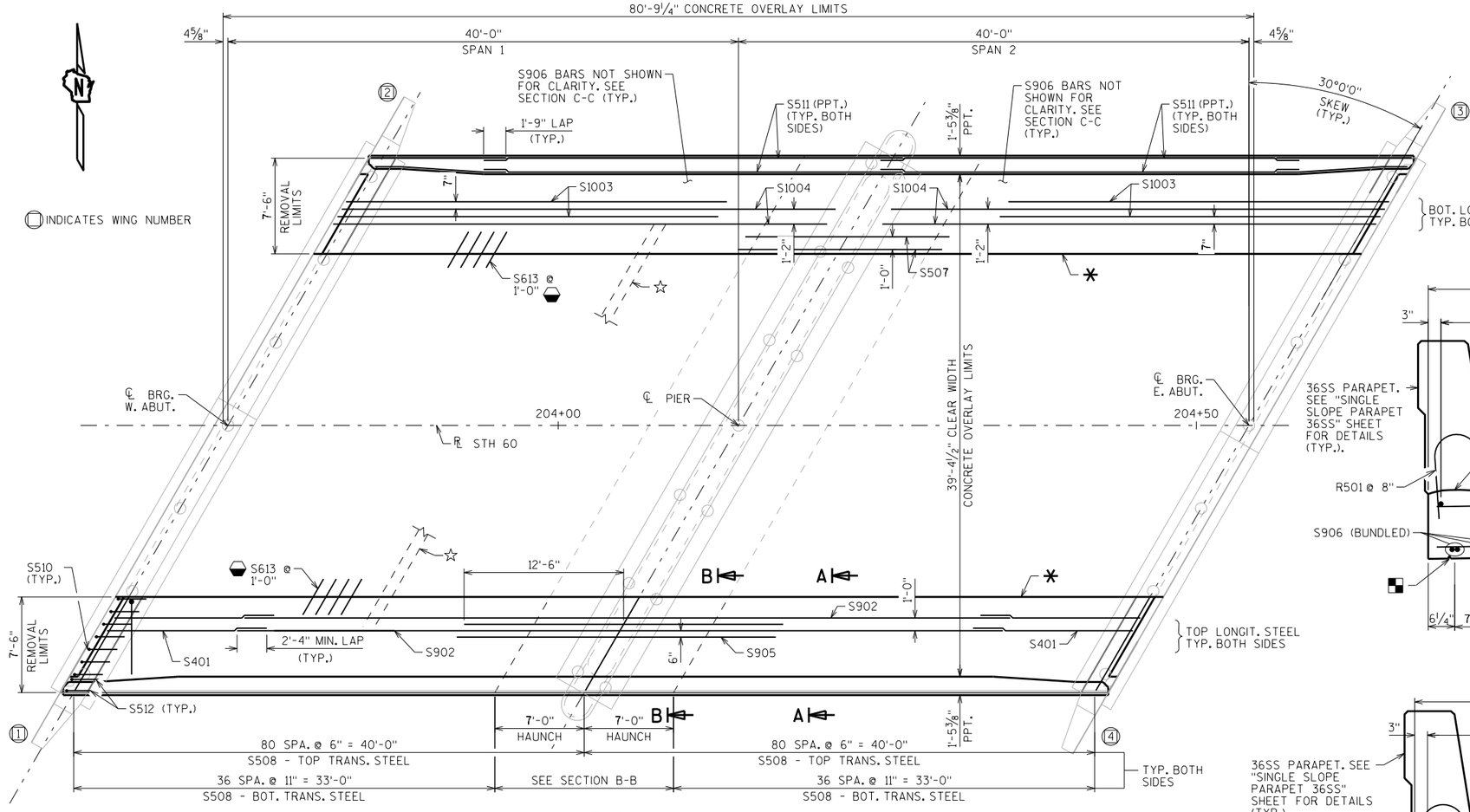
SCALE = 1.00

8

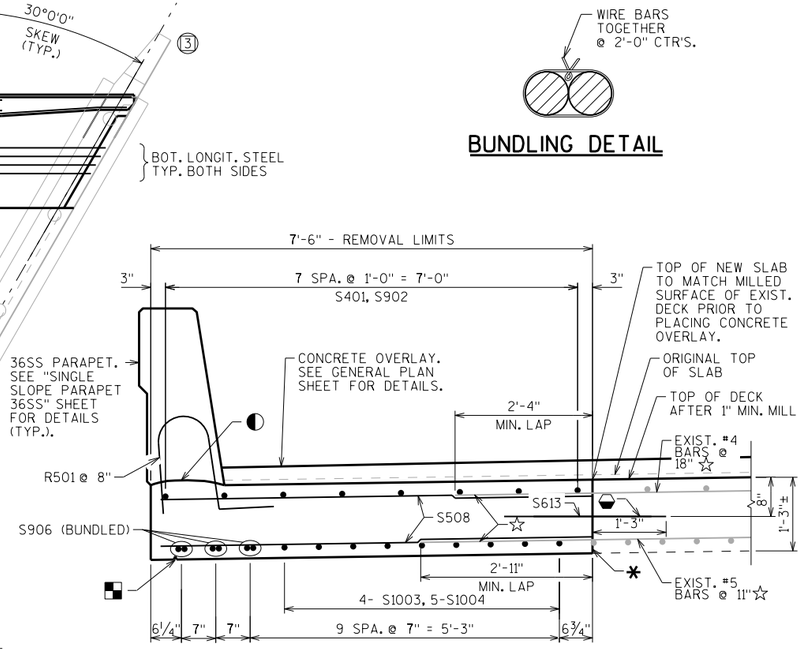
8

STATE PROJECT NUMBER

2310-17-70

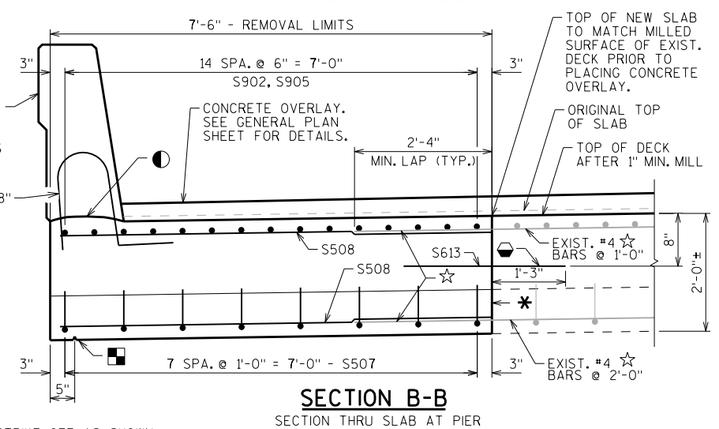


PLAN



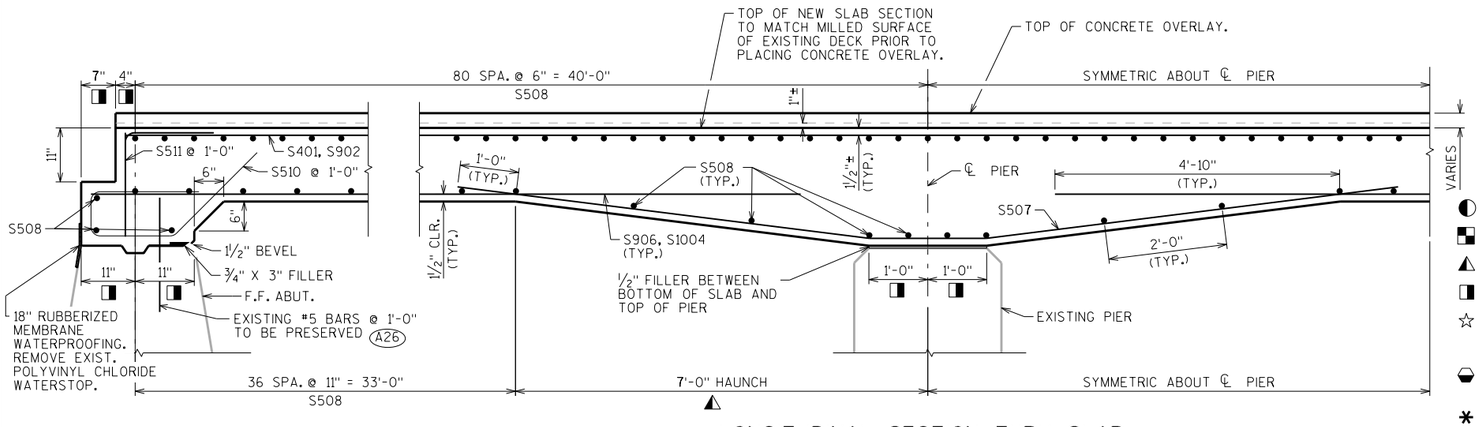
SECTION A-A

SECTION THRU SLAB



SECTION B-B

SECTION THRU SLAB AT PIER



LONGITUDINAL SECTION THRU SLAB

SECTION AT WINGS 2 SHOWN.
OTHERS WINGS SIMILAR.

BUNDLING DETAIL

◐ CONST. JOINT. STRIKE OFF AS SHOWN

◪ ¾" V-GROOVE REQ'D. TERMINATE AT 6" FROM F.F. OF ABUT.

◭ MEASURED ALONG ℄ OF ROADWAY

◨ MEASURED NORMAL TO ℄ ABUT. AND/OR PIER

☆ PRESERVE EXISTING TOP & BOT. TRANSVERSE BAR STEEL AND INCORPORATE INTO NEW WORK. PROVIDE MINIMUM LAP LENGTHS AS SHOWN.

⬭ S613 ADHESIVE ANCHORS - 3'-3" LONG NO. 6 BARS @ 12" SPA. CENTER & EMBED 1'-3" INTO EXISTING CONCRETE.

✱ ROUGHEN SURFACE OF EXISTING CONCRETE ¼" DEEP MIN. WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE.

(A26) IF EXISTING BARS ARE SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH EPOXY ANCHORED NO. 5 BARS 2'-0" LONG EMBED 12". WORK TO BE PAID UNDER ITEM "REMOVING OLD STRUCTURE B-66-92"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-66-92

DRAWN BY	DLM	PLANS CK'D.	DMB

SUPERSTRUCTURE DETAILS 1

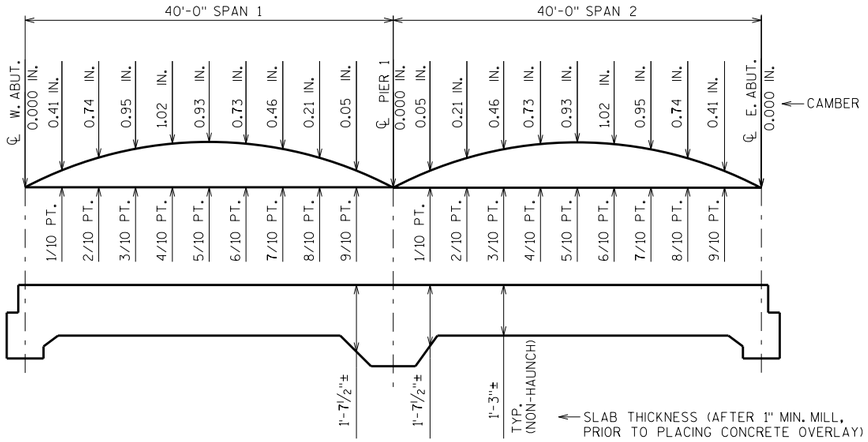
SHEET 3

339

SCALE = 5.00

STATE PROJECT NUMBER

2310-17-70



◐ 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 PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

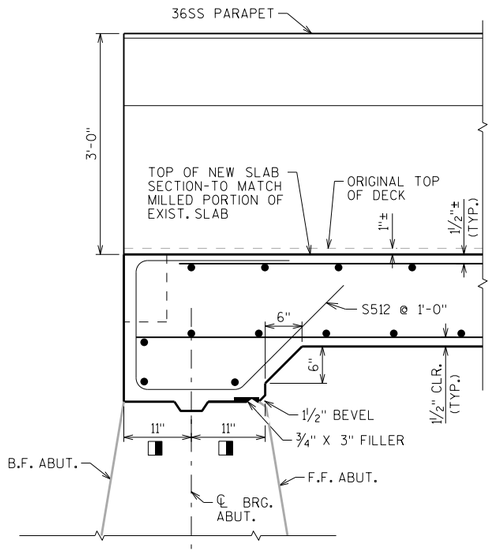
TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

	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

	WEST ABUTMENT	5/10 PT.	PIER	5/10 PT.	EAST ABUTMENT
N. GUTTER					
N. REMOVAL LINE					
S. REMOVAL LINE					
S. GUTTER					

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE ℄ OF ABUTMENTS, THE ℄ OF PIERS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND REMOVAL LIMITS. RECORDED VALUES SHALL BE ELEVATIONS PRIOR TO PLACING CONCRETE OVERLAY. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.



SECTION THRU END OF SLAB

LOOKING OUTSIDE OF PAVING NOTCH LIMITS.
SECTIONS AT WINGS 2 & 4 SHOWN.
SECTIONS AT WINGS 1& 3 SIMILAR.

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 (+).

◐ CAMBER AND SLAB THICKNESS DIAGRAM PERTAINS TO EDGES OF SLAB. TRANSITION NEW PORTION OF SLAB TO MEET FLUSH AT EXISTING SLAB.

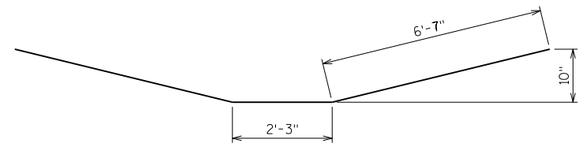
◨ MEASURED NORMAL TO ℄ ABUT.

◒ S613 ADHESIVE ANCHORS - 3'-3" LONG NO. 6 BARS @ 1'-0" SPA. EMBED 1'-3" INTO EXIST. CONCRETE.

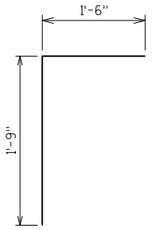
BILL OF BARS

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

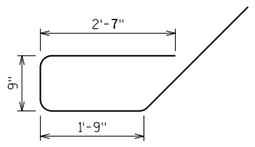
BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
S401	X	32	12'-6"			SLAB - LONGIT. - TOP
S902	X	16	60'-0"			SLAB - LONGIT. - TOP
S1003	X	16	29'-2"			SLAB - LONGIT. - BOT. - INNER
S1004	X	20	38'-7"			SLAB - LONGIT. - BOT. - INNER
S905	X	14	25'-0"			SLAB - LONGIT. - TOP - OVER PIER
S906	X	24	38'-7"			SLAB - LONGIT. - BOT. - OUTER
S507	X	16	15'-5"	X		SLAB - LONGIT. - BOT. - HAUNCH
S508	X	498	7'-3"			SLAB - TRANS. - TOP & BOT.
——	—	——	——			NOT USED
S510	X	28	6'-9"	X		DIAPH. - VERT. - BTWN. PAVING NOTCHES
S511	X	28	3'-3"	X		DIAPH. - VERT. - BTWN. PAVING NOTCHES
S512	X	8	7'-9"	X		DIAPH. - VERT. - OUTSIDE OF PAVING NOTCHES
S613	X	160	3'-3"			SLAB - ADHESIVE ANCHORS



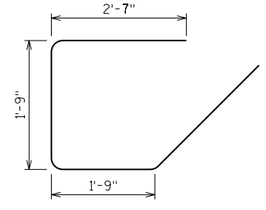
S507



S511



S510



S512

TOP OF SLAB ELEVATIONS

NOTE: ELEVATIONS GIVEN ARE FINAL ELEVATIONS AFTER CONCRETE OVERLAY IS PLACED.

	℄ 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	℄ BRG. E. ABUT.
N. EOD	844.07	844.06	844.05	844.04	844.02	844.01	844.00	843.99	843.98	843.96	843.95	843.94	843.93	843.91	843.90	843.89	843.87	843.86	843.85	843.83	843.82
RL/CROWN	844.50	844.49	844.48	844.46	844.45	844.44	844.43	844.42	844.40	844.39	844.38	844.37	844.35	844.34	844.33	844.32	844.30	844.29	844.28	844.26	844.25
S. EOD	844.14	844.13	844.12	844.11	844.09	844.08	844.07	844.06	844.05	844.03	844.02	844.01	844.00	843.98	843.97	843.96	843.94	843.93	843.92	843.90	843.89

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-66-92

DRAWN BY DLM | PLANS CK'D. DMB

SUPERSTRUCTURE DETAILS 2

SHEET 4

340

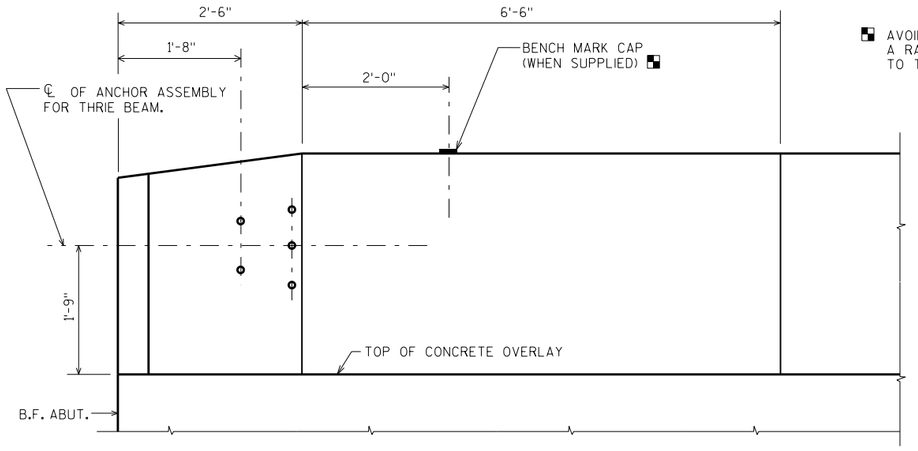
SCALE = 1.00

8

8

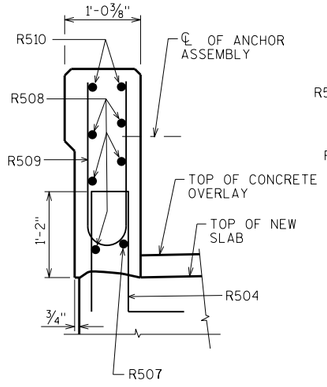
STATE PROJECT NUMBER

2310-17-70

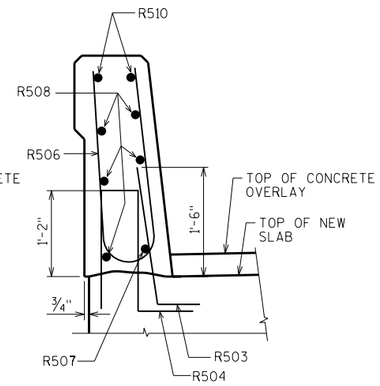


INSIDE ELEVATION

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



SECTION A



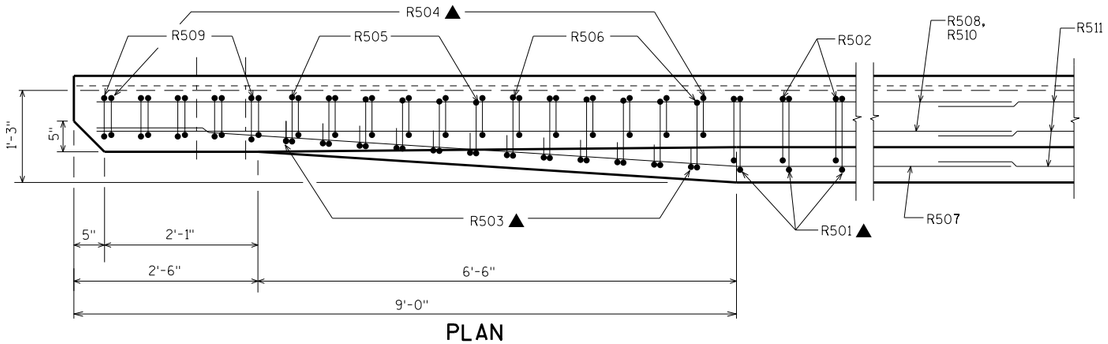
SECTION B

BILL OF BARS

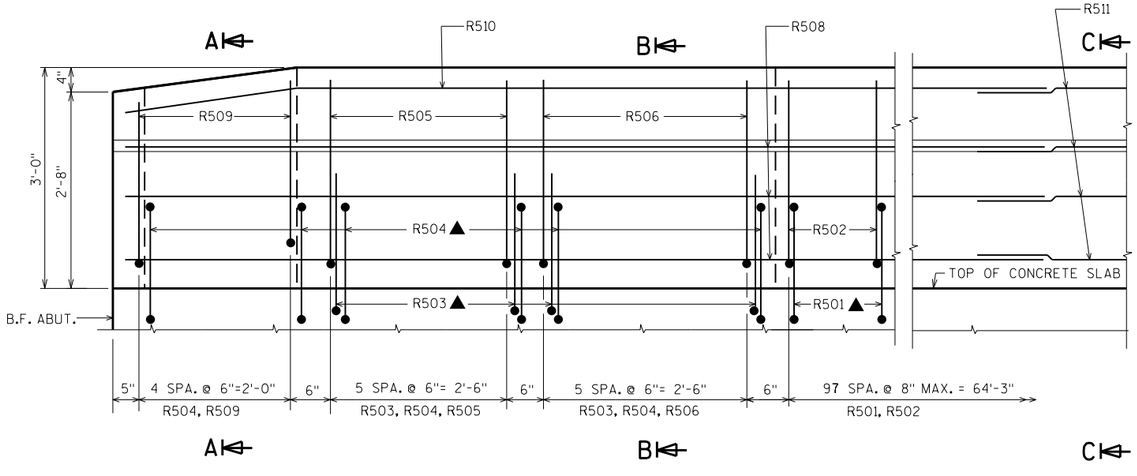
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
R501	X	196	4'-5"	X		PARAPET VERT.
R502	X	196	5'-8"	X		PARAPET VERT.
R503	X	48	2'-9"	X		PARAPET VERT.
R504	X	68	4'-4"	X		PARAPET VERT.
R505	X	24	5'-5"	X		PARAPET VERT.
R506	X	24	5'-6"	X		PARAPET VERT.
R507	X	4	10'-6"	X		PARAPET HORIZ.
R508	X	20	10'-8"			PARAPET HORIZ.
R509	X	20	4'-9"	X		PARAPET VERT.
R510	X	8	10'-8"	X		PARAPET HORIZ
R511	X	32	32'-11"			PARAPET-HORIZ.

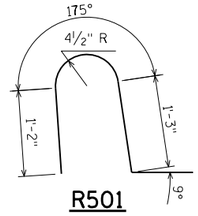
▲ R501, R503, & R504 TO BE TIED TO SLAB STEEL BEFORE SLAB IS POURED.



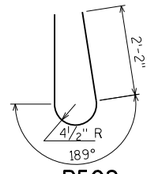
PLAN



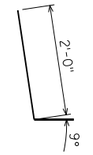
OUTSIDE ELEVATION



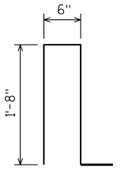
R501



R502



R503



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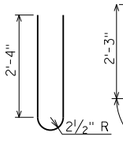
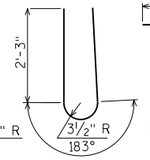
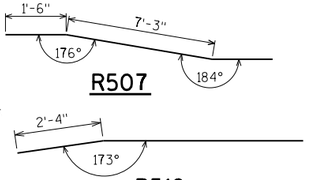


R505

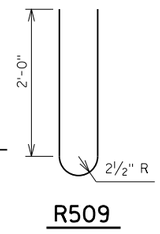


R506

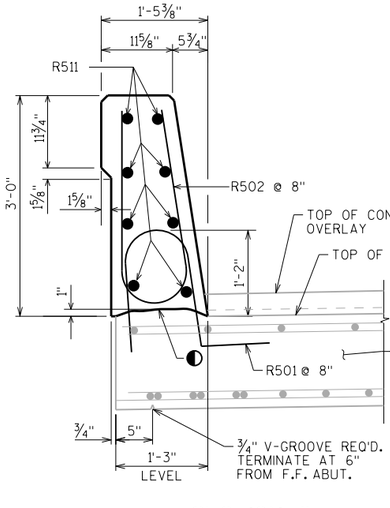


R507

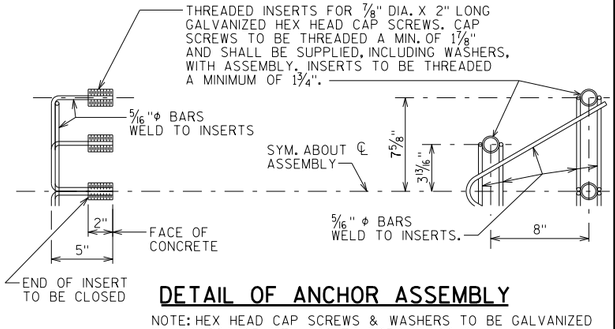
R510



R509



SECTION C



DETAIL OF ANCHOR ASSEMBLY

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

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

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-66-92

DRAWN BY DLM | PLANS CK'D. DMB

SINGLE SLOPE PARAPET 36SS

SHEET 5

341

8

8

SCALE = 1.00

DIVISION 1: STH 60

STATION		Real Station	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				Mass Ordinate
				Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.20	Expanded EBS Backfill 1.30 Note 4	Reduced EBS In Fill 0.80 Note 5	Note 6
201+85	AH	20185	0	3	0	2	0	0	0	0	0	0	0	0	0	0
202+00		20200	15	11	0	3	0	4	0	2	0	4	2	0	0	2
202+13		20213	13	13	0	3	0	6	0	1	0	10	4	0	0	6
203+00		20300	87	31	0	32	0	70	0	56	0	80	71	0	0	10
203+74		20374	74	45	0	49	0	104	0	110	0	184	202	0	0	-18
204+00	BK	20400	26	26	0	0	0	35	0	24	0	219	231	0	0	-12
204+55	AH	20455	0	0	0	0	0	0	0	0	0	219	231	0	0	-12
205+00		20500	45	0	0	5	0	0	0	4	0	219	235	0	0	-17
205+55		20555	55	49	0	14	0	50	0	19	0	269	258	0	0	11
205+55		20555	0	0	0	0	0	0	0	0	0	269	258	0	0	11
205+68		20568	14	49	0	14	0	12	0	4	0	281	262	0	0	19
205+93		20593	25	39	0	2	0	40	0	7	0	322	271	0	0	50
206+00		20600	7	36	0	1	0	9	0	0	0	331	272	0	0	59
206+18		20618	18	28	0	0	0	22	0	1	0	353	272	0	0	80
206+20		20620	2	28	0	0	0	2	0	0	0	354	272	0	0	82
207+38	BK	20738	118	0	0	0	0	61	0	0	0	416	273	0	0	143
230+73	AH	23073	0	0	0	0	0	0	0	0	0	416	273	0	0	143
230+90		23090	18	0	0	0	0	0	0	0	0	416	273	0	0	143
231+93		23193	103	7	0	12	0	14	0	23	0	430	301	0	0	129
232+10		23210	18	3	0	14	0	3	0	9	0	433	311	0	0	122
232+18		23218	8	2	0	11	0	1	0	4	0	434	315	0	0	119
232+35		23235	17	0	0	7	0	1	0	6	0	434	322	0	0	112
232+43		23243	8	0	0	5	0	0	0	2	0	435	324	0	0	110
232+60		23260	17	0	0	1	0	0	0	2	0	435	327	0	0	108
233+00		23300	40	0	0	0	0	0	0	1	0	435	328	0	0	107
234+00		23400	100	0	0	0	0	0	0	0	0	435	328	0	0	107
234+16		23416	16	0	0	0	0	0	0	0	0	435	328	0	0	107
234+41		23441	25	0	0	0	0	0	0	0	0	435	328	0	0	107
234+53		23453	12	0	0	7	0	0	0	2	0	435	330	0	0	105
234+66		23466	13	0	0	12	0	0	0	5	0	435	335	0	0	100
234+78		23478	12	0	0	11	0	0	0	5	0	435	341	0	0	94
235+03		23503	25	0	0	9	0	0	0	9	0	435	352	0	0	83
235+86		23586	83	0	0	0	0	0	0	14	0	435	369	0	0	66
236+23	BK	23623	37	0	0	0	0	0	0	0	0	435	369	0	0	66
280+20	AH	28020	0	32	0	0	0	0	0	0	0	435	369	0	0	66
280+48		28048	28	65	0	0	0	50	0	0	0	485	369	0	0	116
281+00		28100	52	77	0	1	0	137	0	1	0	622	370	0	0	253
282+00		28200	100	92	0	9	0	312	0	17	0	935	390	0	0	544
282+61		28261	61	157	0	5	0	282	0	15	0	1217	409	0	0	808
283+00		28300	39	110	0	12	0	191	0	12	0	1408	424	0	0	984
284+00		28400	100	53	0	0	0	303	0	24	0	1710	452	0	0	1258
285+00		28500	100	98	0	1	0	281	0	2	0	1991	454	0	0	1537
285+40		28540	40	85	0	2	0	137	0	2	0	2128	456	0	0	1672
285+70		28570	30	50	0	0	0	74	0	1	0	2202	457	0	0	1745
286+00		28600	30	22	0	5	0	40	0	3	0	2242	461	0	0	1781
287+00		28700	100	19	0	15	0	76	0	37	0	2318	506	0	0	1812
287+86	BK	28786	86	22	0	1	0	66	0	25	0	2383	536	0	0	1847
288+00	AH	28800	0	10	0	0	0	0	0	0	0	2383	536	0	0	1847
288+87		28887	87	16	0	0	0	43	0	0	0	2426	536	0	0	1890
295+91		29591	704	15	0	0	0	399	0	0	0	2825	536	0	0	2288
296+00		29600	9	15	0	0	0	5	0	0	0	2829	536	0	0	2293
297+00		29700	100	14	0	4	0	54	0	8	0	2883	546	0	0	2337

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
4 - Expanded EBS	Will be backfilled with Granular Backfill (or Cut, or Borrow)
5 - Reduced EBS in Fill	Reduced EBS Excavation that can be used in Fill
6 - Mass Ordinate	If EBS to be backfilled with Cut or Borrow: [(Cut + EBS) - ((Fill) - (Reduced EBS in Fill)) * Fill Factor]

DIVISION 1: STH 60

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 5	Mass Ordinate Note 6
297+18		29718	18	29	0	8	0	15	0	4	0	2898	551	0	0	2347
298+00		29800	82	29	0	20	0	89	0	43	0	2986	602	0	0	2384
299+00		29900	100	40	0	25	0	128	0	83	0	3114	702	0	0	2412
300+00		30000	100	65	0	0	0	195	0	46	0	3309	757	0	0	2552
301+00		30100	100	19	0	2	0	157	0	3	0	3466	761	0	0	2705
302+00		30200	100	46	0	2	0	120	0	6	0	3586	768	0	0	2818
302+49		30249	49	39	0	1	0	77	0	2	0	3663	771	0	0	2892
303+00		30300	51	22	0	1	0	59	0	1	0	3722	773	0	0	2949
304+00		30400	100	17	0	6	0	72	0	12	0	3794	787	0	0	3007
305+00		30500	100	72	0	1	0	164	0	12	0	3958	801	0	0	3157
305+54		30554	54	61	0	1	0	133	0	2	0	4090	802	0	0	3288
306+00		30600	46	58	0	2	0	102	0	3	0	4192	806	0	0	3387
306+16		30616	16	103	0	1	0	47	0	1	0	4239	807	0	0	3432
307+00		30700	84	35	0	72	0	215	0	115	0	4454	945	0	0	3510
308+00		30800	100	34	0	63	0	128	0	250	0	4583	1245	0	0	3338
309+00		30900	100	61	0	6	0	177	0	128	0	4760	1399	0	0	3361
310+00		31000	100	25	0	5	0	160	0	21	0	4920	1424	0	0	3495
310+56		31056	56	51	0	0	0	78	0	5	0	4997	1431	0	0	3567
311+00		31100	44	27	0	2	0	64	0	2	0	5061	1433	0	0	3628
311+72		31172	72	39	0	1	0	89	0	5	0	5150	1439	0	0	3710
312+00		31200	28	23	0	1	0	32	0	1	0	5182	1441	0	0	3741
313+00		31300	100	18	0	2	0	77	0	5	0	5259	1447	0	0	3812
313+82	BK	31382	82	18	0	0	0	55	0	3	0	5314	1450	0	0	3864
348+74	AH	34874	0	19	0	0	0	0	0	0	0	5314	1450	0	0	3864
349+00		34900	26	19	0	0	0	19	0	0	0	5333	1450	0	0	3883
350+00		35000	100	26	0	7	0	84	0	13	0	5417	1465	0	0	3951
350+33		35033	33	71	0	0	0	59	0	4	0	5476	1470	0	0	4006
351+00		35100	67	81	0	5	0	189	0	6	0	5665	1477	0	0	4188
352+00		35200	100	141	0	2	0	410	0	12	0	6075	1491	0	0	4584
353+00		35300	100	55	0	0	0	363	0	3	0	6439	1495	0	0	4944
354+00		35400	100	51	0	1	0	198	0	1	0	6636	1497	0	0	5140
354+43		35443	43	55	0	0	0	84	0	1	0	6720	1497	0	0	5223
355+00		35500	57	30	0	2	0	89	0	2	0	6810	1499	0	0	5311
355+59		35559	59	59	0	0	0	96	0	2	0	6906	1501	0	0	5405
356+00		35600	41	19	0	2	0	59	0	1	0	6965	1503	0	0	5462
356+53	BK	35653	53	16	0	0	0	34	0	2	0	6999	1505	0	0	5494
357+97	AH	35797	0	31	0	0	0	0	0	0	0	6999	1505	0	0	5494
358+00		35800	3	31	0	0	0	3	0	0	0	7002	1505	0	0	5497
359+00		35900	100	58	0	0	0	164	0	0	0	7166	1505	0	0	5661
360+00		36000	100	67	0	1	0	231	0	2	0	7397	1507	0	0	5890
361+00		36100	100	56	0	4	0	228	0	8	0	7625	1517	0	0	6108
362+00		36200	100	49	0	6	0	195	0	18	0	7820	1539	0	0	6281
363+00		36300	100	0	0	0	0	91	0	11	0	7912	1553	0	0	6359
364+00		36400	100	0	0	0	0	0	0	0	0	7912	1553	0	0	6359
364+48		36448	48	87	0	1	0	78	0	1	0	7989	1554	0	0	6435
365+00		36500	52	43	0	0	0	126	0	1	0	8115	1556	0	0	6560
366+00		36600	100	47	0	0	0	167	0	0	0	8282	1556	0	0	6726
366+50		36650	50	46	0	0	0	85	0	0	0	8367	1556	0	0	6811
367+00		36700	50	45	0	0	0	84	0	0	0	8451	1556	0	0	6895
368+00		36800	100	40	0	0	0	157	0	0	0	8608	1557	0	0	7051
369+00		36900	100	32	0	0	0	132	0	0	0	8740	1557	0	0	7184

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
4 - Expanded EBS	Will be backfilled with Granular Backfill (or Cut, or Borrow)
5 - Reduced EBS in Fill	Reduced EBS Excavation that can be used in Fill
6 - Mass Ordinate	If EBS to be backfilled with Cut or Borrow: [(Cut + EBS) - ((Fill) - (Reduced EBS in Fill)) * Fill Factor]

DIVISION 1: STH 60

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 5	Mass Ordinate Note 6
369+50		36950	50	31	0	1	0	58	0	1	0	8799	1558	0	0	7241
370+00		37000	50	32	0	0	0	59	0	1	0	8857	1559	0	0	7298
370+50		37050	50	31	0	1	0	58	0	1	0	8916	1560	0	0	7356
371+00		37100	50	31	0	0	0	57	0	1	0	8973	1561	0	0	7412
371+50		37150	50	30	0	0	0	56	0	0	0	9030	1561	0	0	7468
371+86	BK	37186	36	30	0	3	0	40	0	2	0	9069	1563	0	0	7506
395+39	AH	39539	0	0	0	0	0	0	0	0	0	9069	1563	0	0	7506
395+70		39570	31	0	0	1	0	0	0	1	0	9069	1564	0	0	7505
396+59		39659	89	0	0	11	0	0	0	19	0	9069	1587	0	0	7483
396+84		39684	25	3	0	10	0	1	0	10	0	9071	1598	0	0	7472
396+90		39690	6	3	0	10	0	1	0	2	0	9071	1601	0	0	7470
397+09		39709	19	0	0	3	0	1	0	5	0	9072	1607	0	0	7466
397+15		39715	6	0	0	1	0	0	0	0	0	9072	1607	0	0	7465
397+40		39740	25	0	0	1	0	0	0	1	0	9072	1608	0	0	7464
398+53		39853	113	0	0	1	0	0	0	4	0	9073	1613	0	0	7460
398+78		39878	25	0	0	2	0	0	0	1	0	9073	1615	0	0	7458
399+03		39903	25	0	0	10	0	0	0	5	0	9073	1621	0	0	7451
399+09		39909	6	0	0	9	0	0	0	2	0	9073	1624	0	0	7449
399+34		39934	25	0	0	8	0	0	0	8	0	9073	1634	0	0	7439
399+59		39959	25	0	0	10	0	0	0	9	0	9073	1644	0	0	7429
400+23		40023	64	0	0	0	0	0	0	12	0	9073	1659	0	0	7414
400+79	BK	40079	56	0	0	0	0	0	0	0	0	9073	1659	0	0	7414
404+63	AH	40463	0	15	0	0	0	0	0	0	0	9073	1659	0	0	7414
405+00		40500	37	17	0	0	0	21	0	0	0	9094	1659	0	0	7435
406+00		40600	100	25	0	0	0	77	0	0	0	9171	1659	0	0	7513
406+57		40657	57	56	0	2	0	86	0	2	0	9257	1661	0	0	7596
407+00		40700	43	61	0	3	0	94	0	4	0	9351	1665	0	0	7686
408+00		40800	100	31	0	4	0	171	0	12	0	9523	1679	0	0	7843
409+00		40900	100	59	0	13	0	167	0	30	0	9689	1715	0	0	7974
410+00		41000	100	36	0	8	0	176	0	37	0	9865	1760	0	0	8105
411+00		41100	100	30	0	21	0	122	0	52	0	9987	1822	0	0	8165
411+65		41165	65	25	0	20	0	66	0	50	0	10054	1882	0	0	8172
412+00		41200	35	11	0	16	0	23	0	23	0	10077	1910	0	0	8167
413+00		41300	100	11	0	2	0	40	0	33	0	10117	1950	0	0	8167
413+04	BK	41304	4	11	0	1	0	2	0	0	0	10119	1950	0	0	8169
434+77	AH	43477	0	15	0	0	0	0	0	0	0	10077	1910	0	0	8167
435+00		43500	23	14	0	0	0	12	0	0	0	10089	1910	0	0	8179
435+04		43504	4	29	0	0	0	3	0	0	0	10092	1910	0	0	8182
436+00		43600	96	35	0	9	0	114	0	16	0	10206	1929	0	0	8277
437+00		43700	100	70	0	8	0	194	0	32	0	10400	1967	0	0	8433
438+00		43800	100	67	0	19	0	254	0	51	0	10655	2029	0	0	8626
439+00		43900	100	23	0	10	0	168	0	54	0	10822	2093	0	0	8729
439+97		43997	97	36	0	8	0	106	0	32	0	10929	2131	0	0	8797
440+00		44000	3	22	0	8	0	3	0	1	0	10931	2132	0	0	8799
441+00		44100	100	18	0	4	0	74	0	22	0	11005	2159	0	0	8846
442+00		44200	100	15	0	0	0	61	0	7	0	11066	2168	0	0	8899
442+06	BK	44206	6	15	0	0	0	3	0	0	0	11070	2168	0	0	8902
490+89	AH	49089	0	16	0	0	0	0	0	0	0	11070	2168	0	0	8902
491+00		49100	11	16	0	1	0	6	0	0	0	11076	2168	0	0	8908
491+17		49117	17	30	0	4	0	14	0	1	0	11090	2169	0	0	8921
492+00		49200	83	31	0	24	0	95	0	43	0	11185	2221	0	0	8964

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
4 - Expanded EBS	Will be backfilled with Granular Backfill (or Cut, or Borrow)
5 - Reduced EBS in Fill	Reduced EBS Excavation that can be used in Fill
6 - Mass Ordinate	If EBS to be backfilled with Cut or Borrow: [(Cut + EBS) - ((Fill) - (Reduced EBS in Fill)) * Fill Factor]

DIVISION 1: STH 60

STATION		Real Station	Distance	AREA (SF) Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Expanded Fill 1.20	Expanded EBS Backfill 1.30 Note 4	Reduced EBS In Fill 0.80 Note 5	Mass Ordinate Note 6
493+00		49300	100	38	0	23	0	128	0	89	0	11313	2328	0	0	8985
494+00		49400	100	44	0	12	0	151	0	65	0	11464	2406	0	0	9058
495+00		49500	100	23	0	9	0	124	0	38	0	11588	2451	0	0	9137
496+00		49600	100	46	0	3	0	128	0	21	0	11716	2476	0	0	9240
496+09		49609	9	46	0	2	0	16	0	1	0	11732	2477	0	0	9254
497+00		49700	91	21	0	7	0	113	0	17	0	11845	2497	0	0	9348
498+00		49800	100	23	0	0	0	82	0	14	0	11927	2513	0	0	9414
498+19	BK	49819	19	18	0	0	0	15	0	0	0	11942	2513	0	0	9428
512+83	AH	51283	0	18	0	0	0	0	0	0	0	11942	2513	0	0	9428
513+00		51300	17	17	0	1	0	11	0	0	0	11953	2514	0	0	9439
514+00		51400	100	13	0	21	0	55	0	42	0	12008	2564	0	0	9444
515+00		51500	100	16	0	16	0	54	0	69	0	12062	2647	0	0	9415
516+00		51600	100	25	0	13	0	76	0	54	0	12138	2712	0	0	9426
517+00		51700	100	53	0	3	0	144	0	31	0	12282	2750	0	0	9533
517+08		51708	8	60	0	3	0	17	0	1	0	12300	2751	0	0	9549
518+00		51800	92	0	0	0	0	102	0	5	0	12401	2757	0	0	9644
518+58		51858	58	49	0	0	0	53	0	0	0	12455	2757	0	0	9698
519+00		51900	42	51	0	4	0	77	0	3	0	12531	2761	0	0	9770
520+00		52000	100	59	0	1	0	203	0	10	0	12734	2773	0	0	9962
521+00		52100	100	74	0	0	0	247	0	1	0	12981	2774	0	0	10207
522+00		52200	100	66	0	0	0	259	0	0	0	13240	2774	0	0	10466
522+86		52286	86	44	0	0	0	175	0	0	0	13415	2774	0	0	10641
523+00		52300	14	12	0	0	0	14	0	0	0	13430	2774	0	0	10655
523+50	BK	52350	50	0	0	0	0	11	0	0	0	13440	2774	0	0	10666
							Column totals	13483	0	2345	0					

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
4 - Expanded EBS	Will be backfilled with Granular Backfill (or Cut, or Borrow)
5 - Reduced EBS in Fill	Reduced EBS Excavation that can be used in Fill
6 - Mass Ordinate	If EBS to be backfilled with Cut or Borrow: [(Cut + EBS) - ((Fill) - (Reduced EBS in Fill)) * Fill Factor]

DIVISION 1: Maple Rd

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 5	Mass Ordinate Note 6
5+50	AH	550	0	18	0	1	0	0	0	0	0	0	0	0	0	0
6+00		600	50	17	0	9	0	32	0	9	0	32	10	0	0	21
6+15		615	15	17	0	11	0	10	0	6	0	41	17	0	0	24
6+50		650	35	70	0	32	0	56	0	27	0	97	50	0	0	47
6+83	BK	683	33	205	0	2	0	168	0	20	0	265	74	0	0	190
							Column totals	265	0	62	0					

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
4 - Expanded EBS	Will be backfilled with Granular Backfill (or Cut, or Borrow)
5 - Reduced EBS in Fill	Reduced EBS Excavation that can be used in Fill
6 - Mass Ordinate	If EBS to be backfilled with Cut or Borrow: [(Cut + EBS) - ((Fill) - (Reduced EBS in Fill)) * Fill Factor]

DIVISION 1: Center Rd

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 5	Mass Ordinate Note 6
0+00	AH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0+50		50	50	7	0	0	0	6	0	0	0	6	0	0	0	6
1+00		100	50	10	0	0	0	16	0	0	0	22	0	0	0	22
1+50		150	50	22	0	0	0	30	0	0	0	52	0	0	0	52
1+97		197	47	64	0	0	0	76	0	0	0	128	0	0	0	128
2+00		200	3	65	0	0	0	6	0	0	0	134	0	0	0	134
2+37		237	37	60	0	0	0	85	0	0	0	219	0	0	0	219
2+50		250	13	113	0	1	0	41	0	0	0	260	0	0	0	260
2+94	BK	294	44	283	0	0	0	324	0	0	0	584	1	0	0	583
Column totals								584	0	1	0					

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
4 - Expanded EBS	Will be backfilled with Granular Backfill (or Cut, or Borrow)
5 - Reduced EBS in Fill	Reduced EBS Excavation that can be used in Fill
6 - Mass Ordinate	If EBS to be backfilled with Cut or Borrow: [(Cut + EBS) - ((Fill) - (Reduced EBS in Fill)) * Fill Factor]

9

9

DIVISION 1: Lusan Dr

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 5	Mass Ordinate Note 6
2+53	AH	253	0	57	0	0	0	0	0	0	0	0	0	0	0	0
2+61		261	8	75	0	2	0	19	0	0	0	19	0	0	0	19
3+00		300	39	133	0	0	0	148	0	1	0	167	2	0	0	166
3+18	BK	318	18	150	0	0	0	97	0	0	0	264	2	0	0	262
Column totals								264	0	2	0					

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
4 - Expanded EBS	Will be backfilled with Granular Backfill (or Cut, or Borrow)
5 - Reduced EBS in Fill	Reduced EBS Excavation that can be used in Fill
6 - Mass Ordinate	If EBS to be backfilled with Cut or Borrow: [(Cut + EBS) - ((Fill) - (Reduced EBS in Fill)) * Fill Factor]

9

9

DIVISION 1: Church Rd

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 5	Mass Ordinate Note 6
2+42	AH	242	0	20	0	1	0	0	0	0	0	0	0	0	0	0
2+50		250	8	26	0	1	0	7	0	0	0	7	0	0	0	6
3+00		300	50	132	0	0	0	147	0	1	0	153	2	0	0	151
3+17	BK	317	17	142	0	0	0	87	0	0	0	240	2	0	0	239
Column totals								240	0	2	0					

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
4 - Expanded EBS	Will be backfilled with Granular Backfill (or Cut, or Borrow)
5 - Reduced EBS in Fill	Reduced EBS Excavation that can be used in Fill
6 - Mass Ordinate	If EBS to be backfilled with Cut or Borrow: [(Cut + EBS) - ((Fill) - (Reduced EBS in Fill)) * Fill Factor]

9

9

DIVISION 1: Briarwood Dr

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 5	Mass Ordinate Note 6
2+46	AH	246	0	12	0	1	0	0	0	0	0	0	0	0	0	0
2+50		250	4	13	0	1	0	2	0	0	0	2	0	0	0	2
2+63		263	13	46	0	3	0	14	0	1	0	16	1	0	0	14
3+00		300	37	113	0	14	0	109	0	12	0	125	16	0	0	109
3+20	BK	320	20	130	0	0	0	90	0	5	0	215	22	0	0	192
Column totals								215	0	18	0					

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
4 - Expanded EBS	Will be backfilled with Granular Backfill (or Cut, or Borrow)
5 - Reduced EBS in Fill	Reduced EBS Excavation that can be used in Fill
6 - Mass Ordinate	If EBS to be backfilled with Cut or Borrow: [(Cut + EBS) - ((Fill) - (Reduced EBS in Fill)) * Fill Factor]

9

9

DIVISION 1: CTH M

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 5	Mass Ordinate Note 6
48+50	AH	4850	0	5	0	0	0	0	0	0	0	0	0	0	0	0
49+00		4900	50	11	0	2	0	15	0	2	0	15	2	0	0	12
49+19		4919	19	91	0	1	0	37	0	1	0	51	4	0	0	48
49+50		4950	31	133	0	19	0	128	0	11	0	179	17	0	0	162
49+86	BK	4986	36	310	0	0	0	297	0	12	0	476	32	0	0	444
50+14	AH	5014	0	294	0	0	0	0	0	0	0	476	32	0	0	444
50+50		5050	36	117	0	55	0	272	0	37	0	748	76	0	0	672
50+81		5081	31	71	0	2	0	108	0	33	0	857	116	0	0	741
51+00		5100	19	39	0	1	0	39	0	1	0	895	117	0	0	778
51+50		5150	50	27	1	1	1	61	0	3	0	957	121	0	0	836
51+77	BK	5177	27	20	2	1	2	24	0	1	0	980	122	0	0	858
							Column totals	980	0	102	0					

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
4 - Expanded EBS	Will be backfilled with Granular Backfill (or Cut, or Borrow)
5 - Reduced EBS in Fill	Reduced EBS Excavation that can be used in Fill
6 - Mass Ordinate	If EBS to be backfilled with Cut or Borrow: [(Cut + EBS) - ((Fill) - (Reduced EBS in Fill)) * Fill Factor]

DIVISION 1: Strawberry Glen Rd

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 5	Mass Ordinate Note 6
0+13	AH	13	0	189	0	0	0	0	0	0	0	0	0	0	0	0
0+50		50	37	137	0	1	0	225	0	1	0	225	1	0	0	224
0+69		69	19	82	0	0	0	75	0	0	0	300	1	0	0	299
0+89	BK	89	21	30	0	1	0	43	0	0	0	342	2	0	0	341
Column totals								342	0	1	0					

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
4 - Expanded EBS	Will be backfilled with Granular Backfill (or Cut, or Borrow)
5 - Reduced EBS in Fill	Reduced EBS Excavation that can be used in Fill
6 - Mass Ordinate	If EBS to be backfilled with Cut or Borrow: [(Cut + EBS) - ((Fill) - (Reduced EBS in Fill)) * Fill Factor]

9

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DIVISION 1: Elm Dr

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 5	Mass Ordinate Note 6
2+85	AH	285	0	10	0	3	0	0	0	0	0	0	0	0	0	0
3+00		300	15	12	0	5	0	6	0	2	0	6	3	0	0	3
3+02		302	2	23	0	7	0	1	0	0	0	7	3	0	0	4
3+50		350	48	137	0	0	0	143	0	6	0	151	10	0	0	140
3+59	BK	359	9	138	0	0	0	44	0	0	0	195	10	0	0	184
Column totals								195	0	9	0					

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
4 - Expanded EBS	Will be backfilled with Granular Backfill (or Cut, or Borrow)
5 - Reduced EBS in Fill	Reduced EBS Excavation that can be used in Fill
6 - Mass Ordinate	If EBS to be backfilled with Cut or Borrow: [(Cut + EBS) - ((Fill) - (Reduced EBS in Fill)) * Fill Factor]

9

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DIVISION 1: Lizbeth Ln

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 5	Mass Ordinate Note 6
2+27	AH	227	0	8	0	0	0	0	0	0	0	0	0	0	0	0
2+50		250	23	7	0	4	0	6	0	2	0	6	2	0	0	4
3+00		300	50	12	0	8	0	18	0	12	0	24	16	0	0	8
3+02		302	2	24	0	11	0	1	0	1	0	25	17	0	0	8
3+50		350	48	139	0	0	0	144	0	9	0	170	28	0	0	141
3+59	BK	359	9	140	0	0	0	47	0	0	0	216	28	0	0	188
Column totals								216	0	24	0					

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
4 - Expanded EBS	Will be backfilled with Granular Backfill (or Cut, or Borrow)
5 - Reduced EBS in Fill	Reduced EBS Excavation that can be used in Fill
6 - Mass Ordinate	If EBS to be backfilled with Cut or Borrow: [(Cut + EBS) - ((Fill) - (Reduced EBS in Fill)) * Fill Factor]

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DIVISION 1: Horns Corners Rd

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.20	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 4	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 5	Mass Ordinate Note 6
2+85	AH	285	0	21	0	2	0	0	0	0	0	0	0	0	0	0
3+00		300	15	30	0	1	0	14	0	1	0	14	1	0	0	13
3+05		305	5	63	0	3	0	8	0	0	0	22	1	0	0	21
3+50		350	45	276	0	0	0	285	0	3	0	307	4	0	0	302
3+62	BK	362	12	284	0	0	0	121	0	0	0	427	4	0	0	423
3+86	AH	386	0	283	0	0	0	0	0	0	0	427	4	0	0	423
4+00		400	14	326	0	0	0	159	0	0	0	586	4	0	0	582
4+42		442	42	91	0	0	0	323	0	0	0	909	5	0	0	904
4+50		450	8	60	0	0	0	23	0	0	0	932	5	0	0	927
4+62	BK	462	12	24	1	0	1	19	0	0	0	951	5	0	0	946
Column totals								951	0	4	0					

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
4 - Expanded EBS	Will be backfilled with Granular Backfill (or Cut, or Borrow)
5 - Reduced EBS in Fill	Reduced EBS Excavation that can be used in Fill
6 - Mass Ordinate	If EBS to be backfilled with Cut or Borrow: [(Cut + EBS) - ((Fill) - (Reduced EBS in Fill)) * Fill Factor]

9

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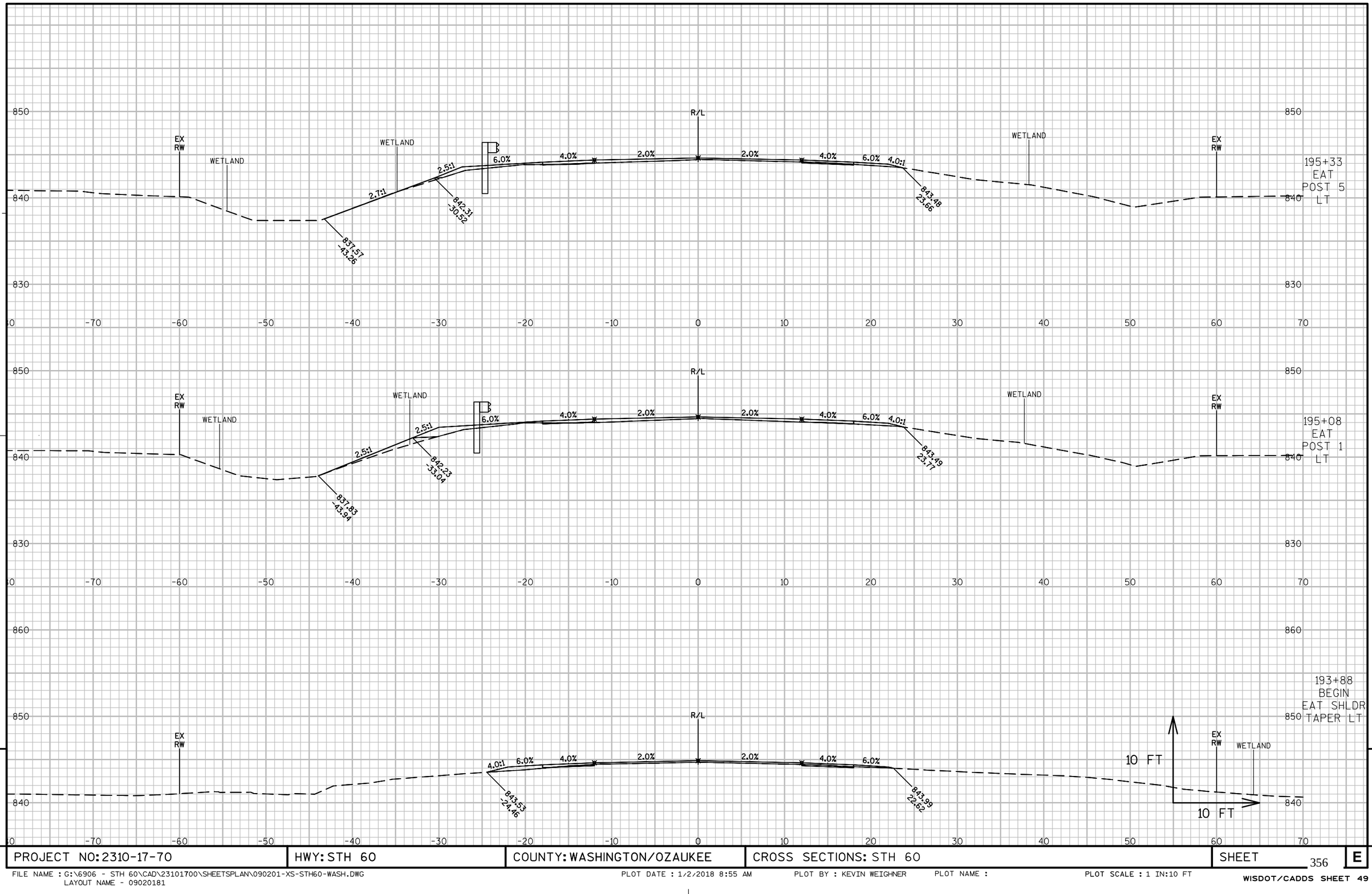

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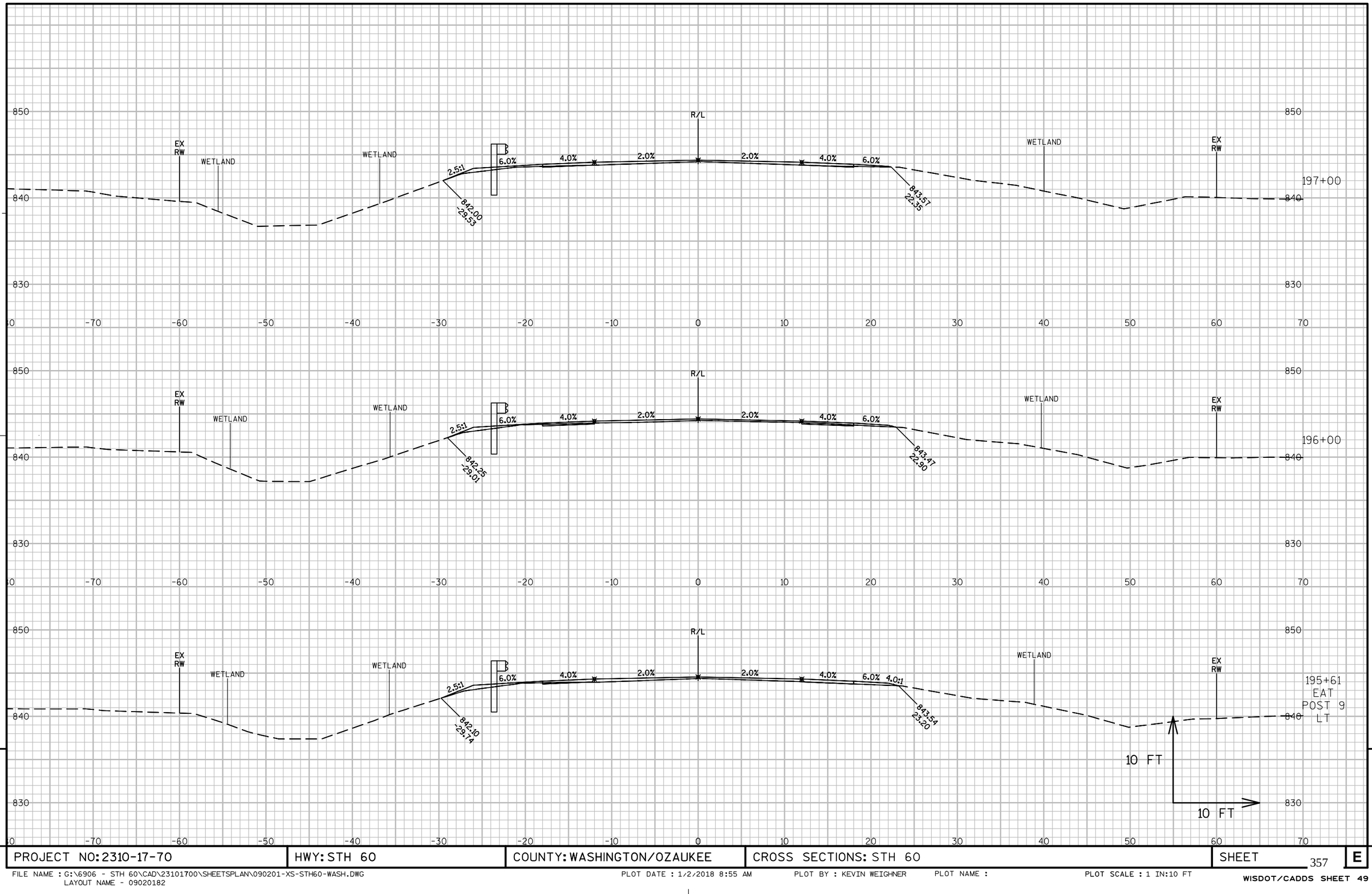
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 356	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020181
PLOT DATE : 1/2/2018 8:55 AM
PLOT BY : KEVIN WEIGHNER
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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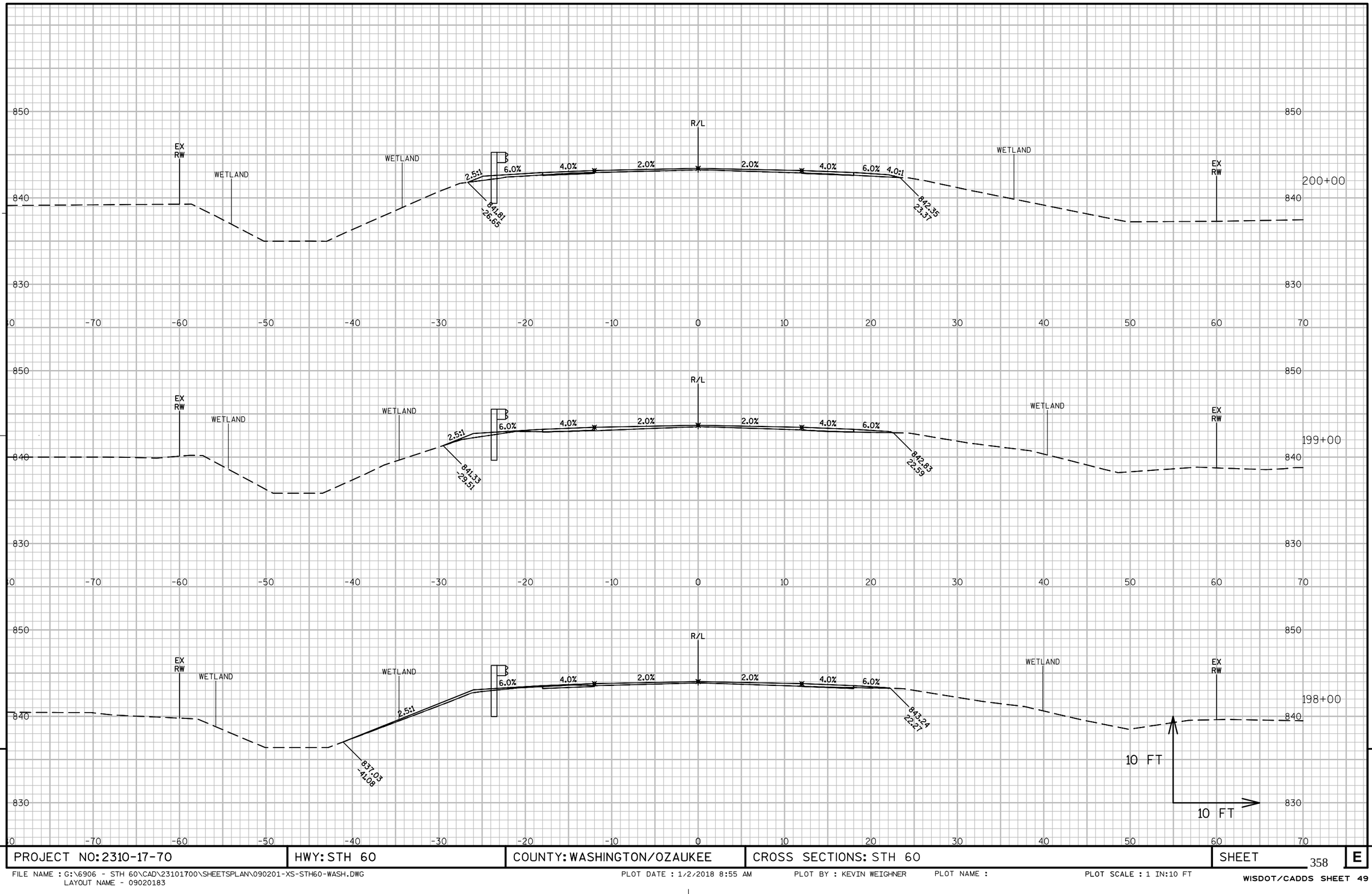
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 357	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020182

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



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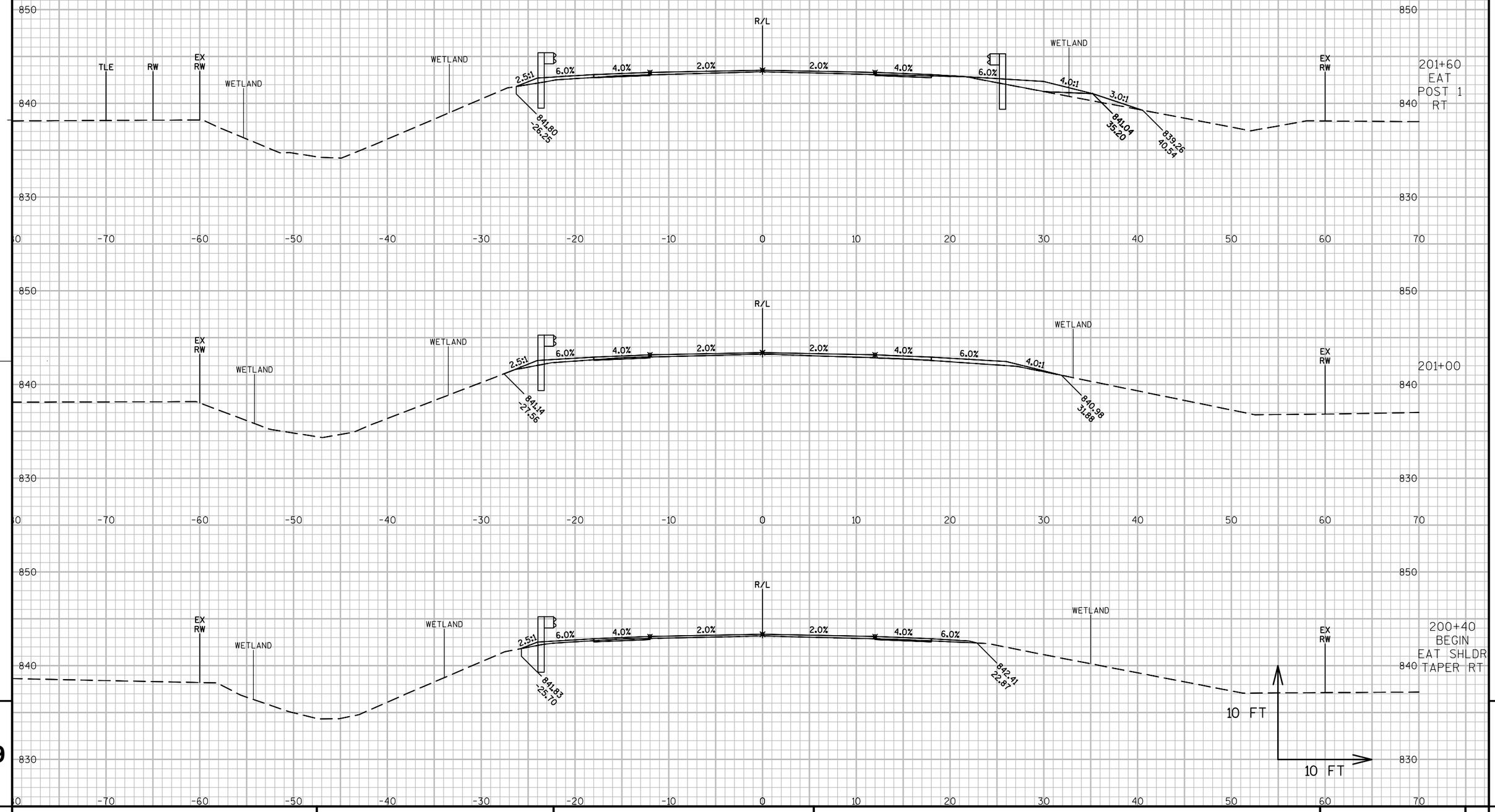
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 358	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020183

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

9



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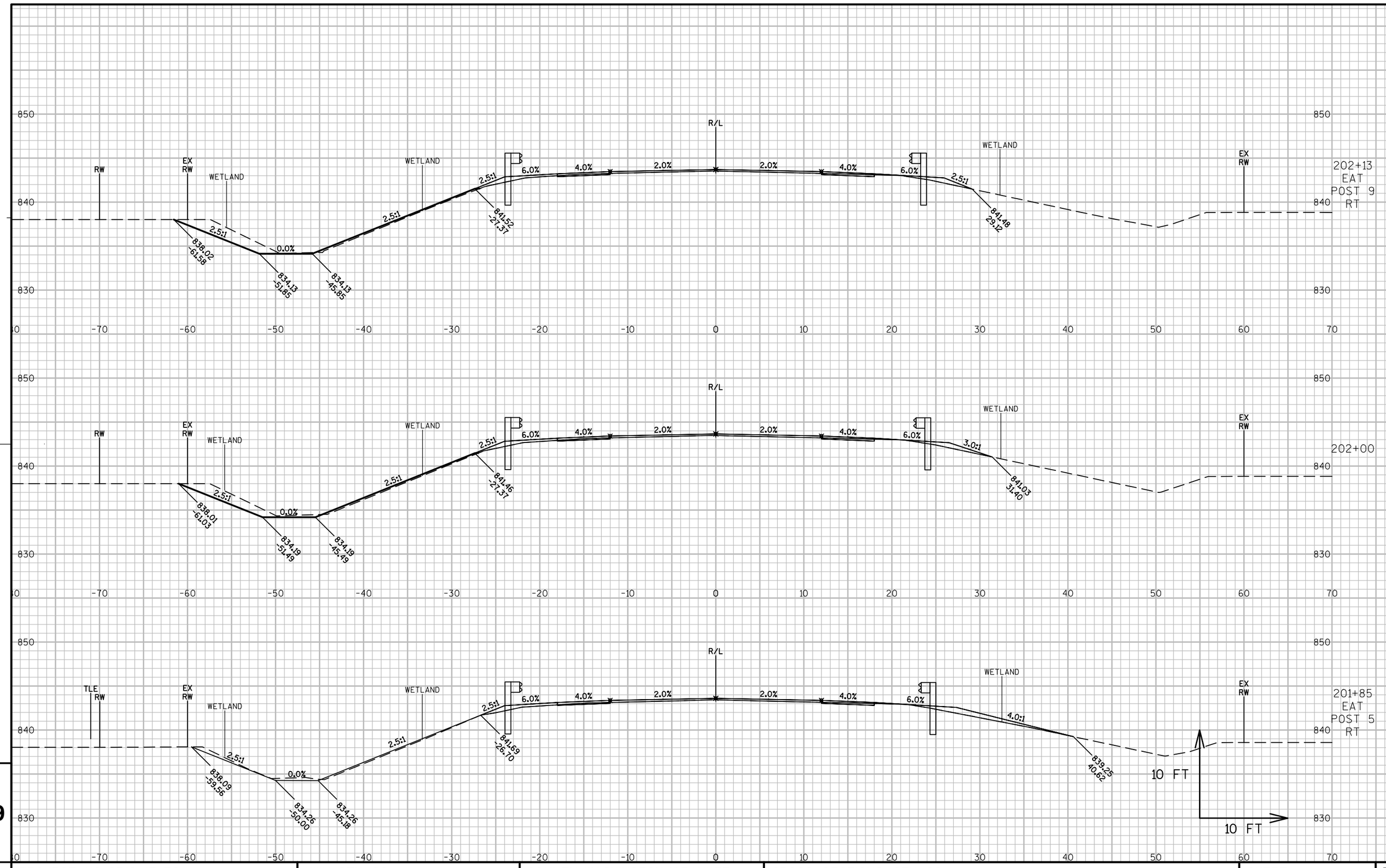
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 359	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020184

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

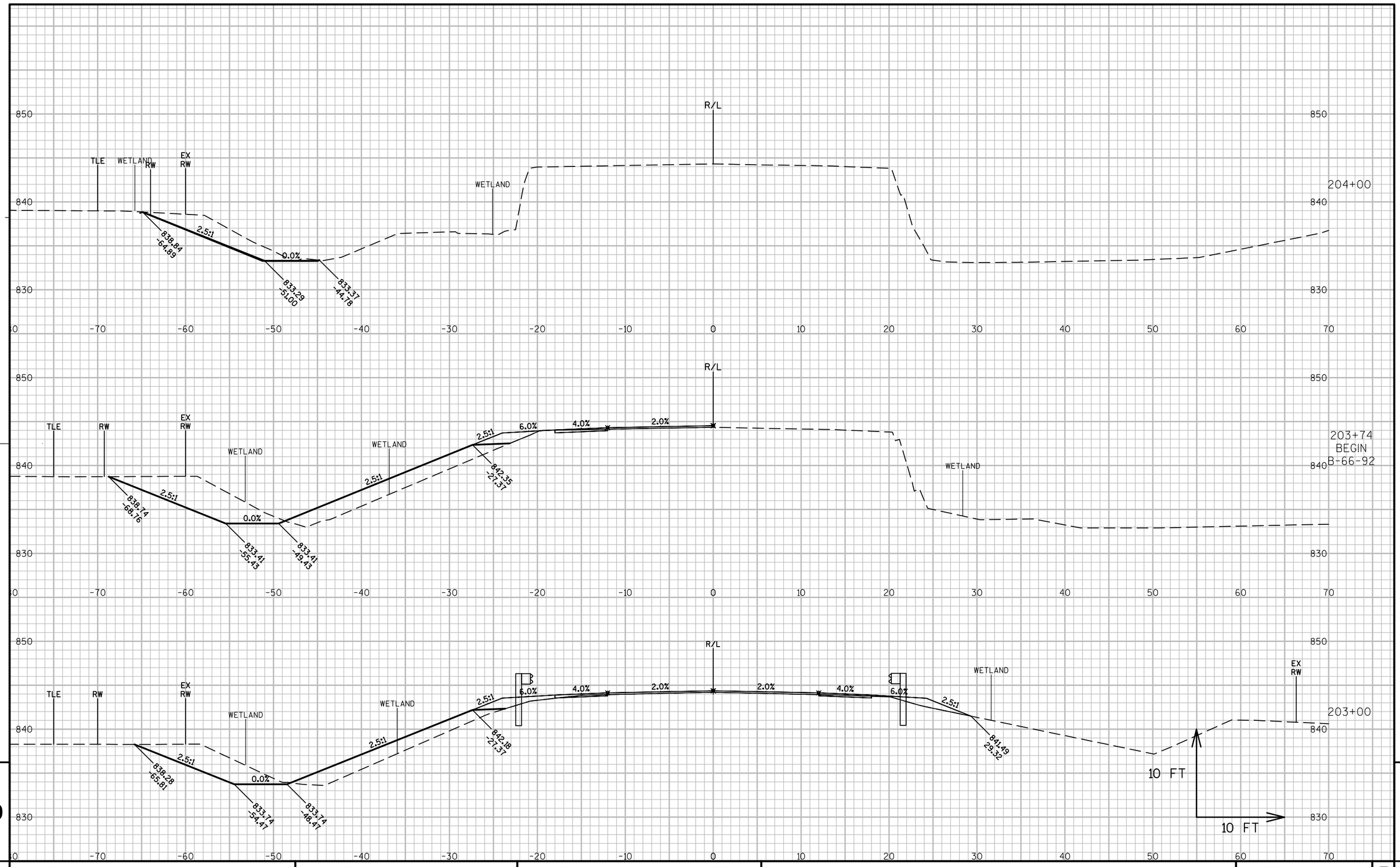


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 360	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020185

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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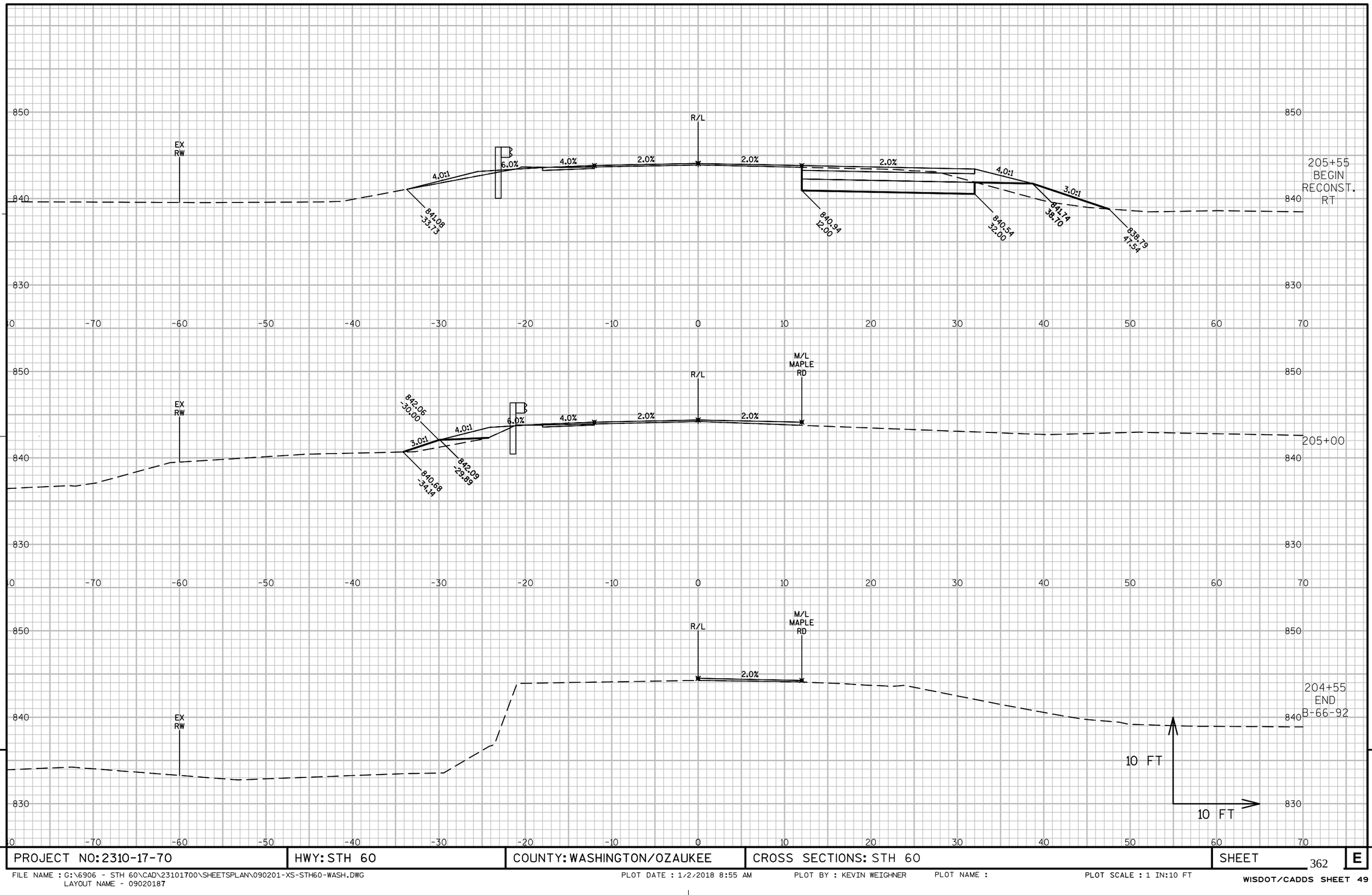
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 361	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020186

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



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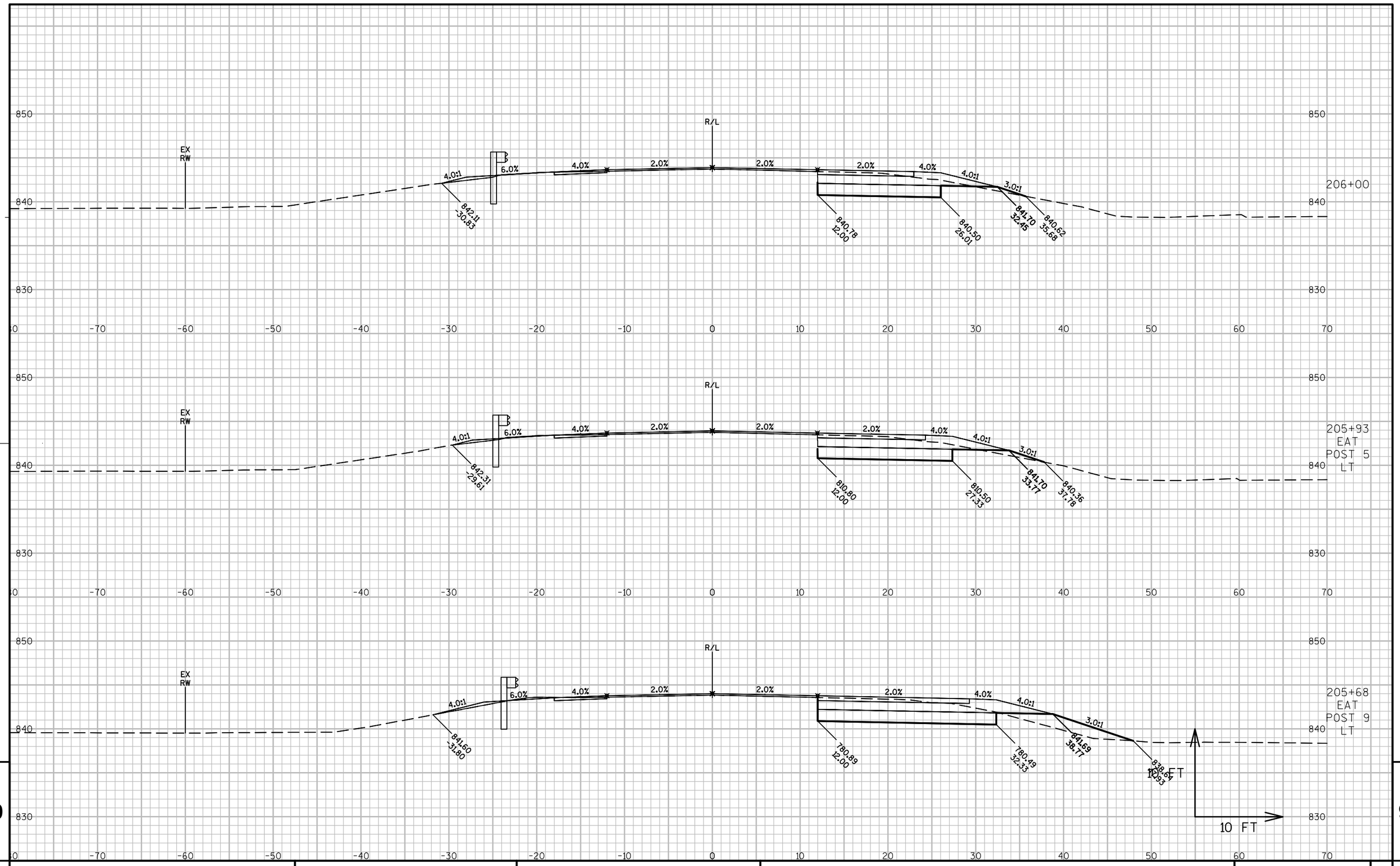
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 362	E

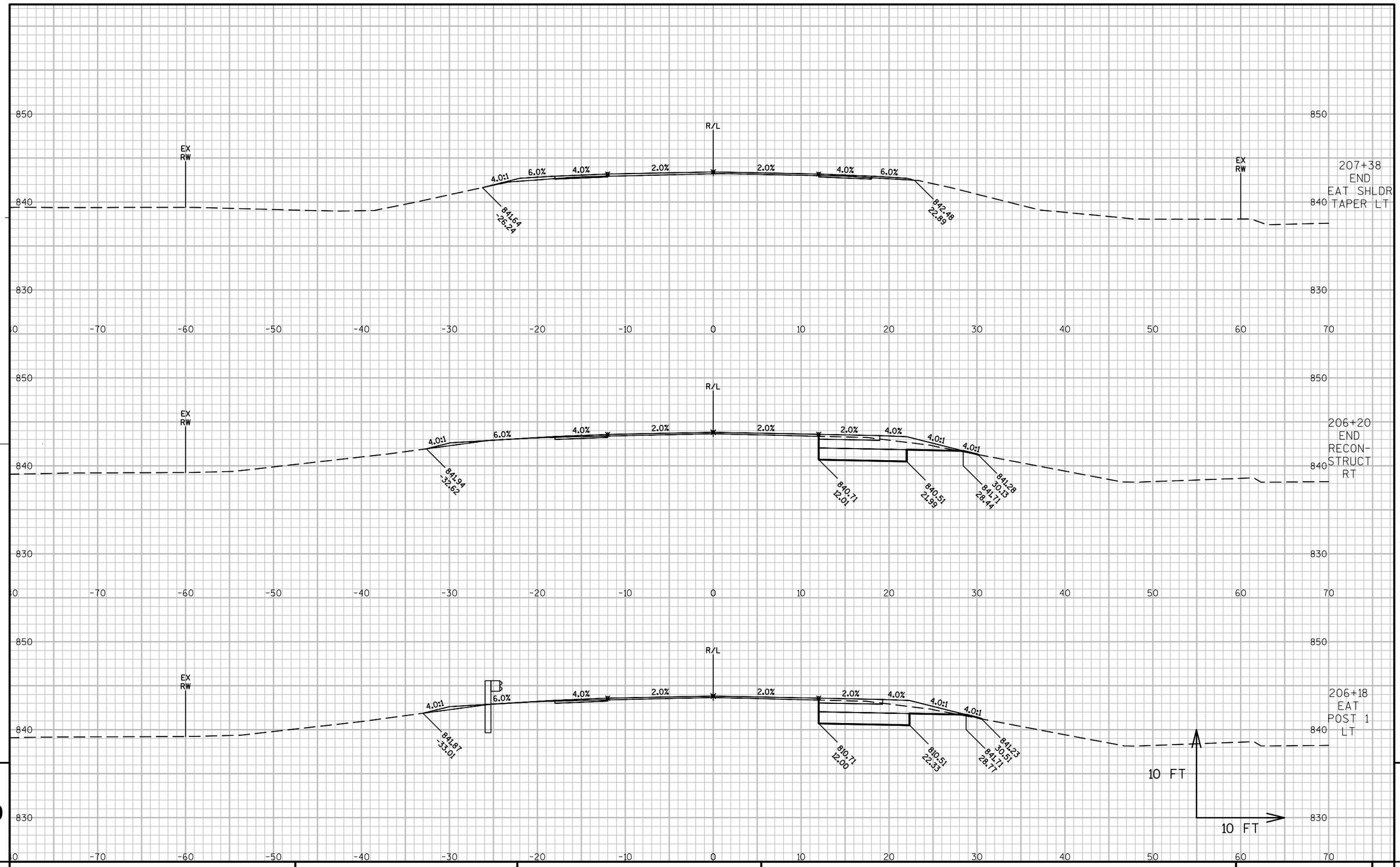
FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020187

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 363	E



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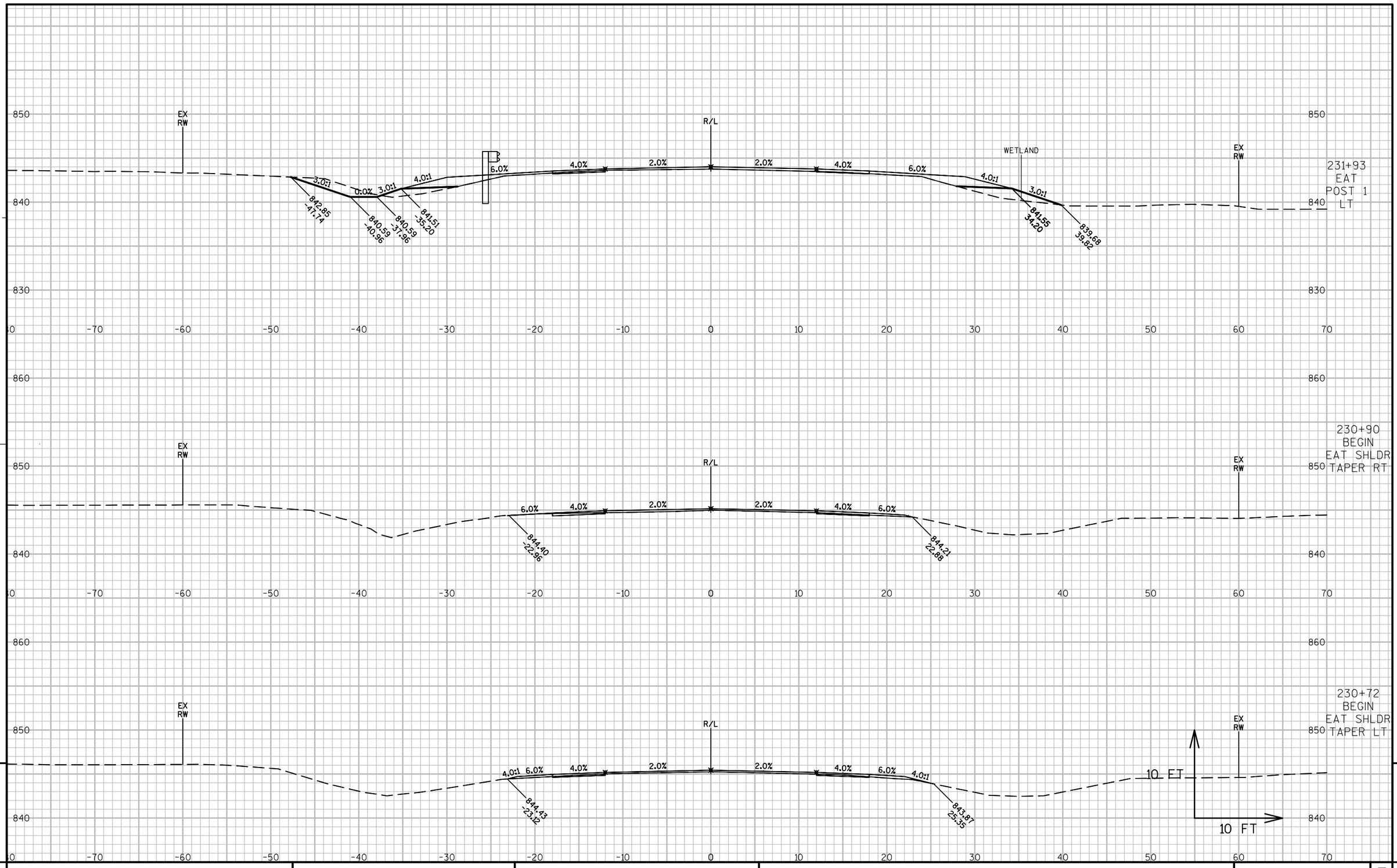
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 364	E



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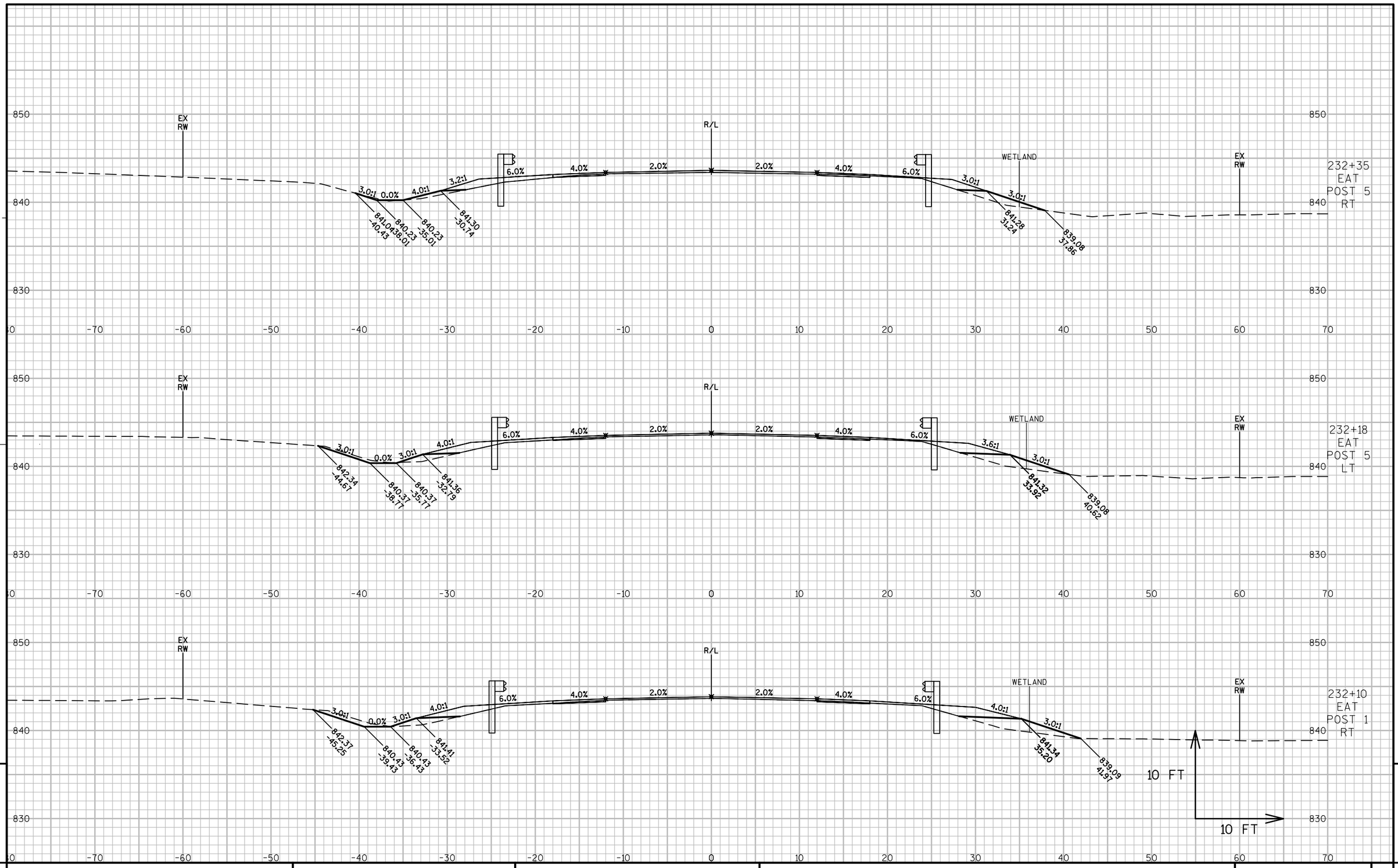
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 365	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020190

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



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PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 366	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020191

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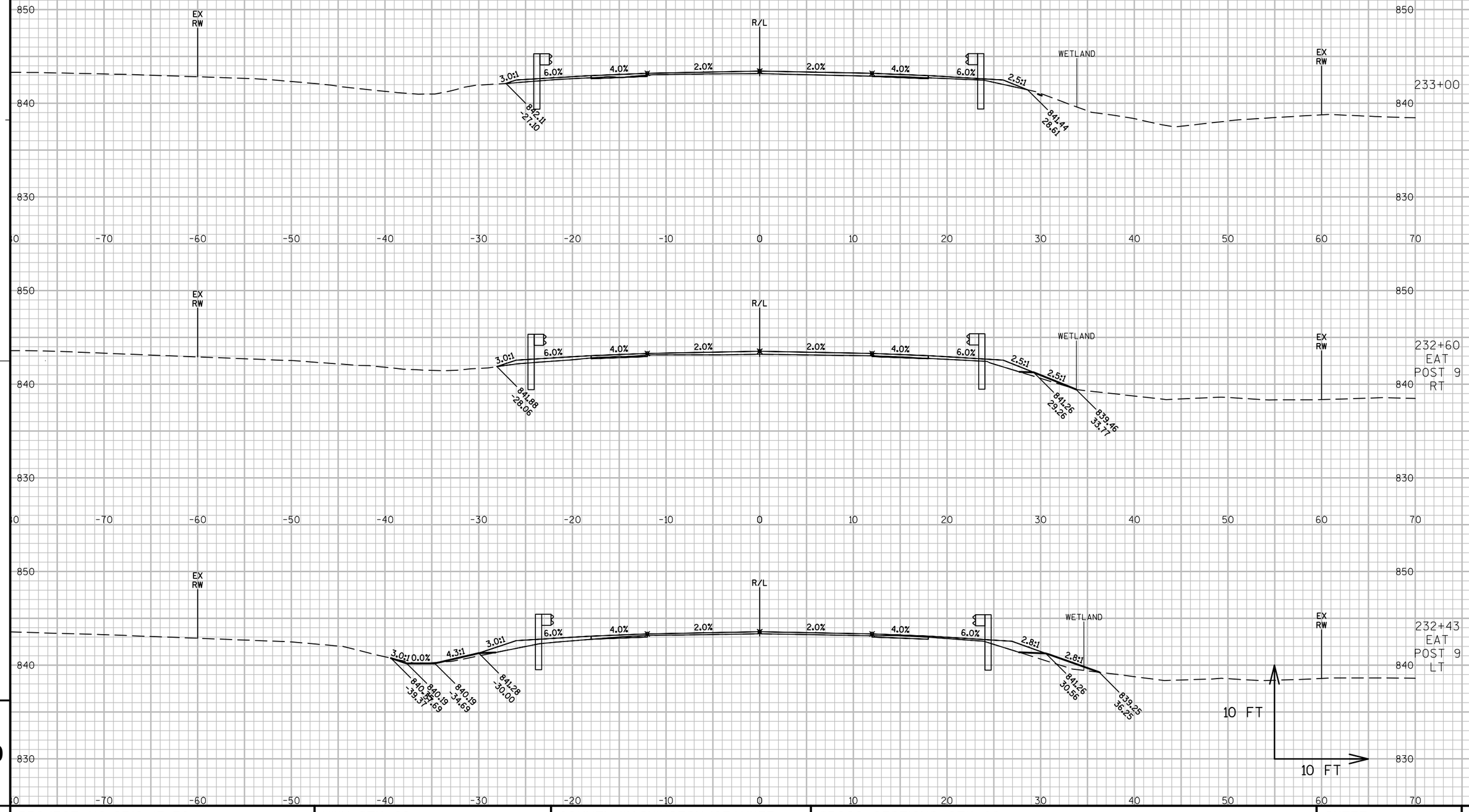

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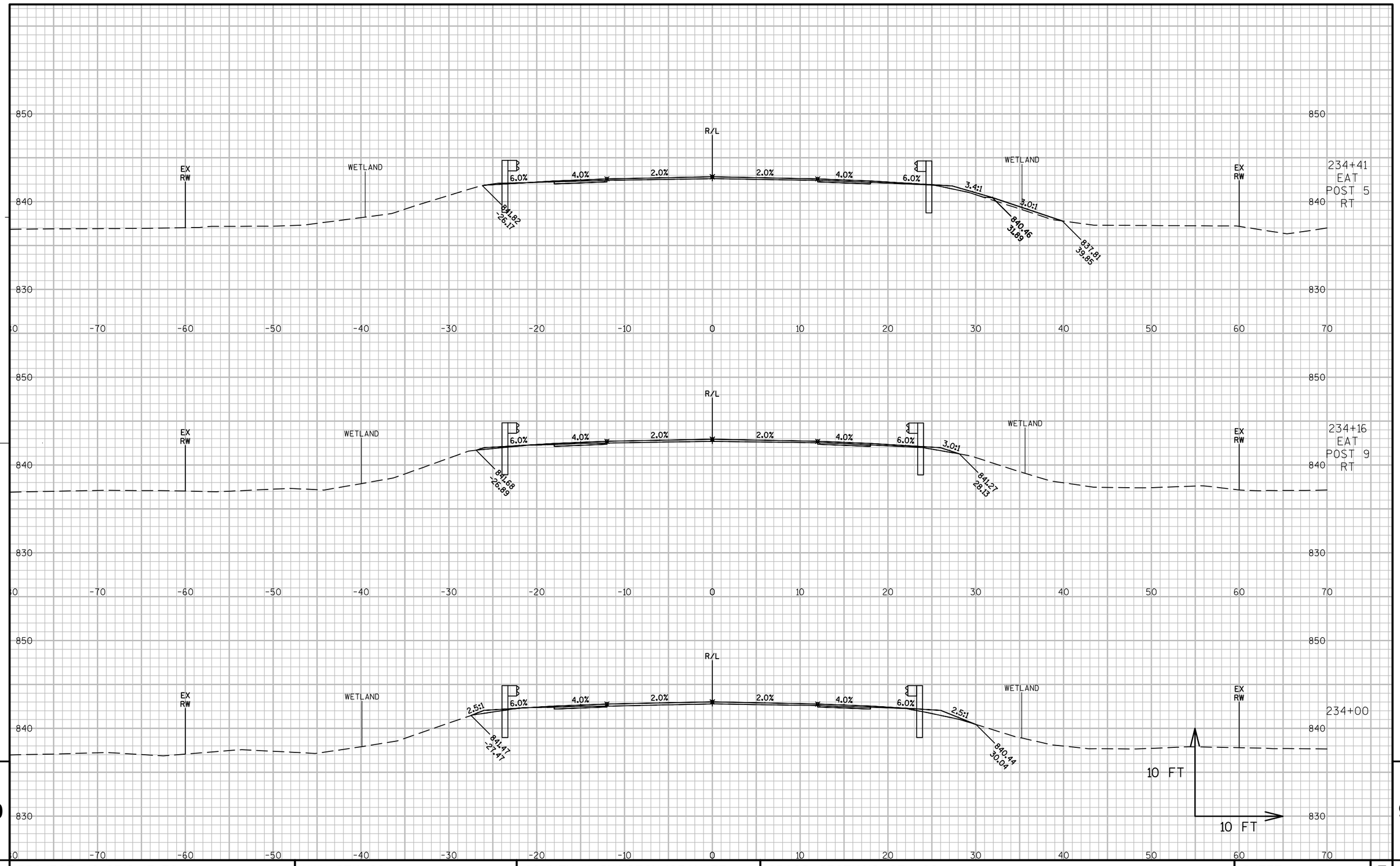
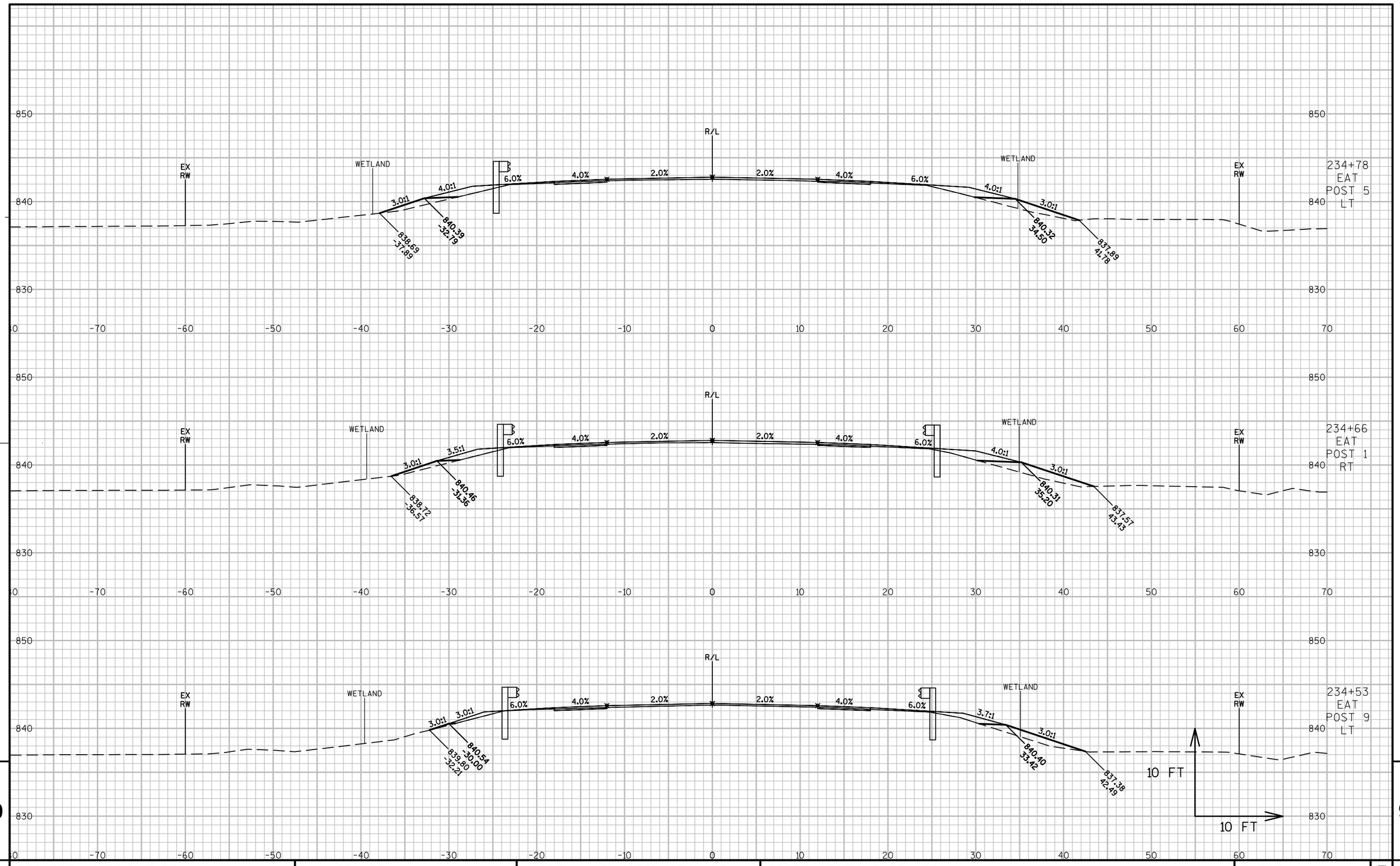
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 367	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020192

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 368	E



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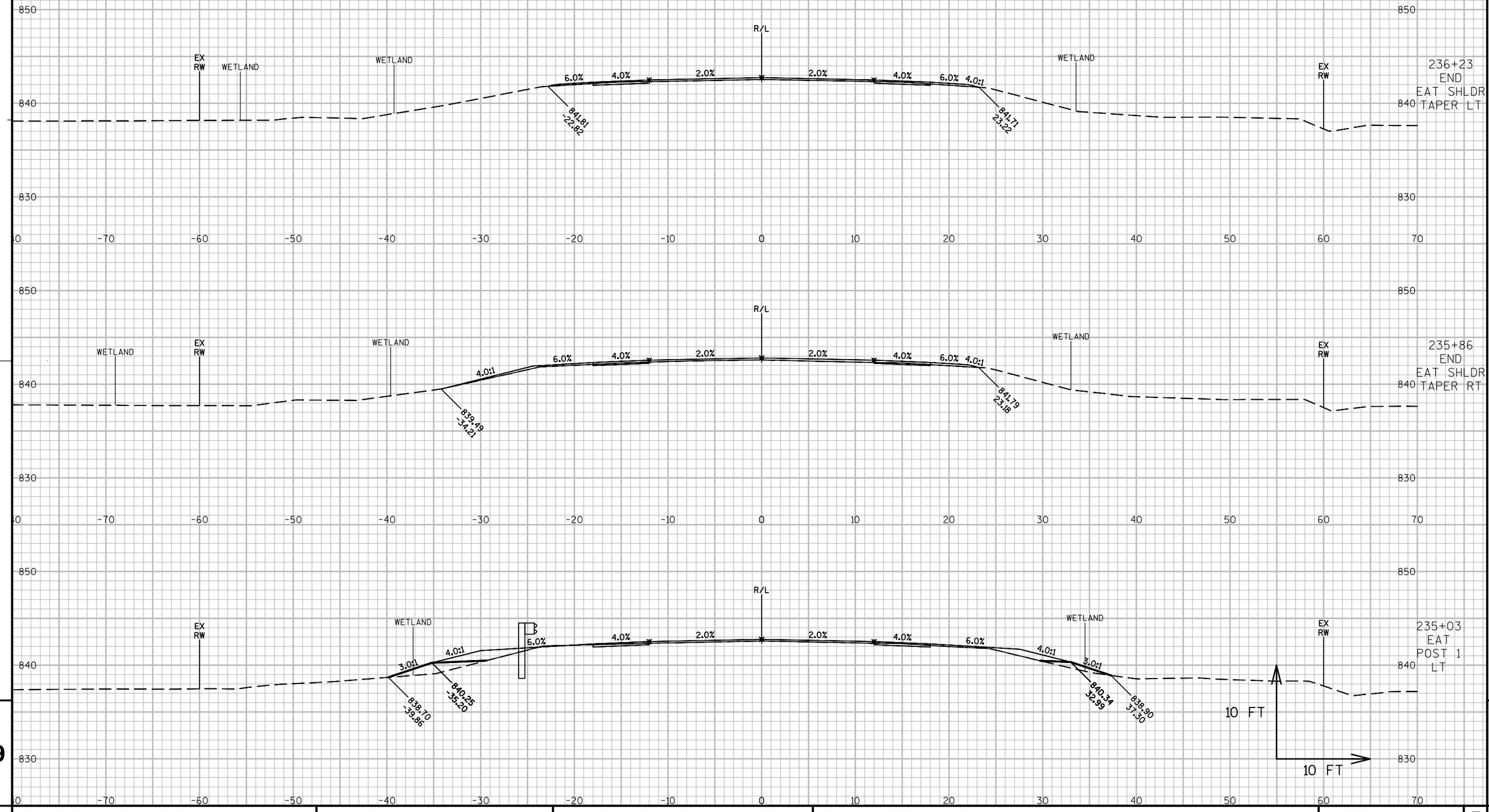
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 369	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020194

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

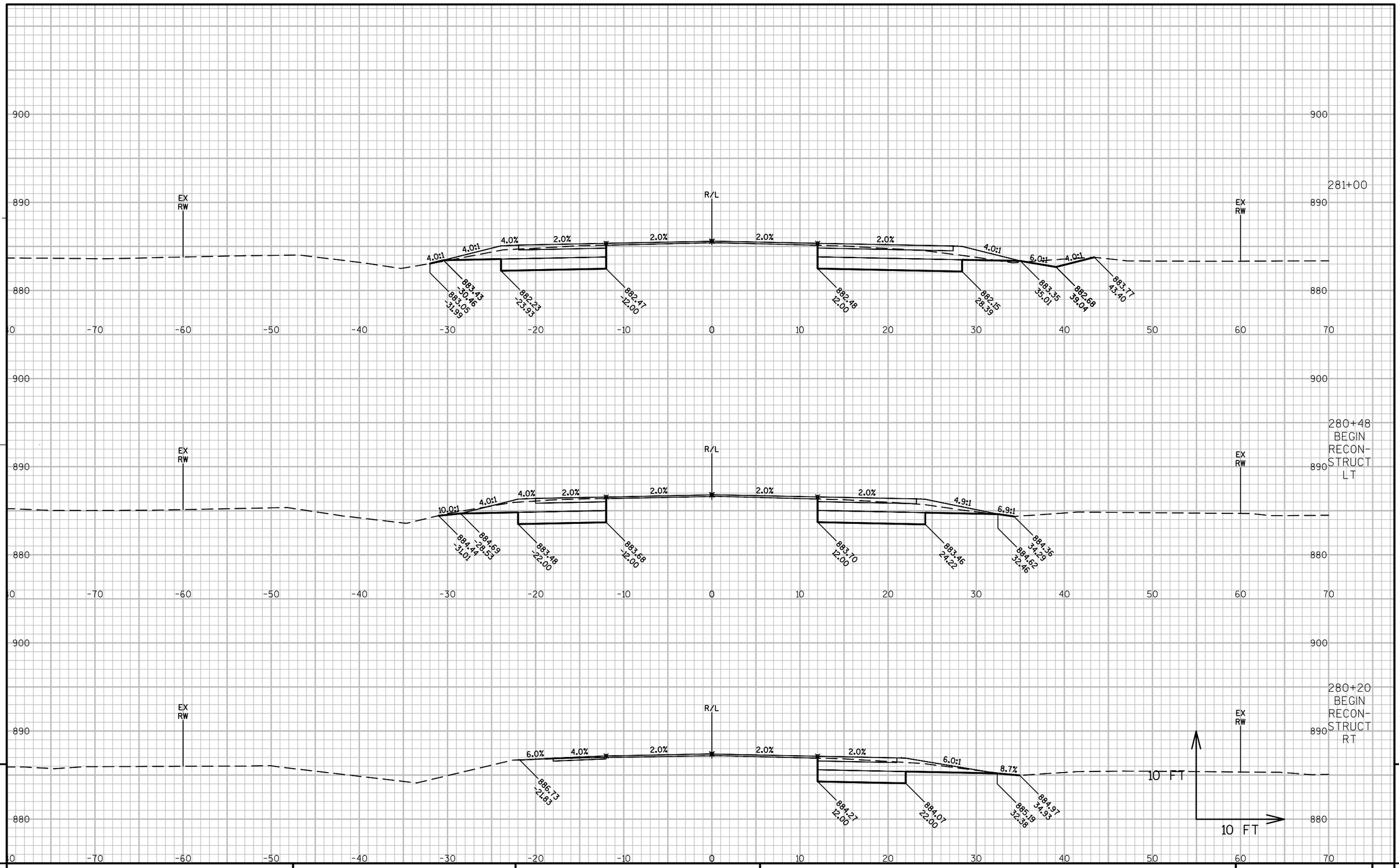


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 370	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020195

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

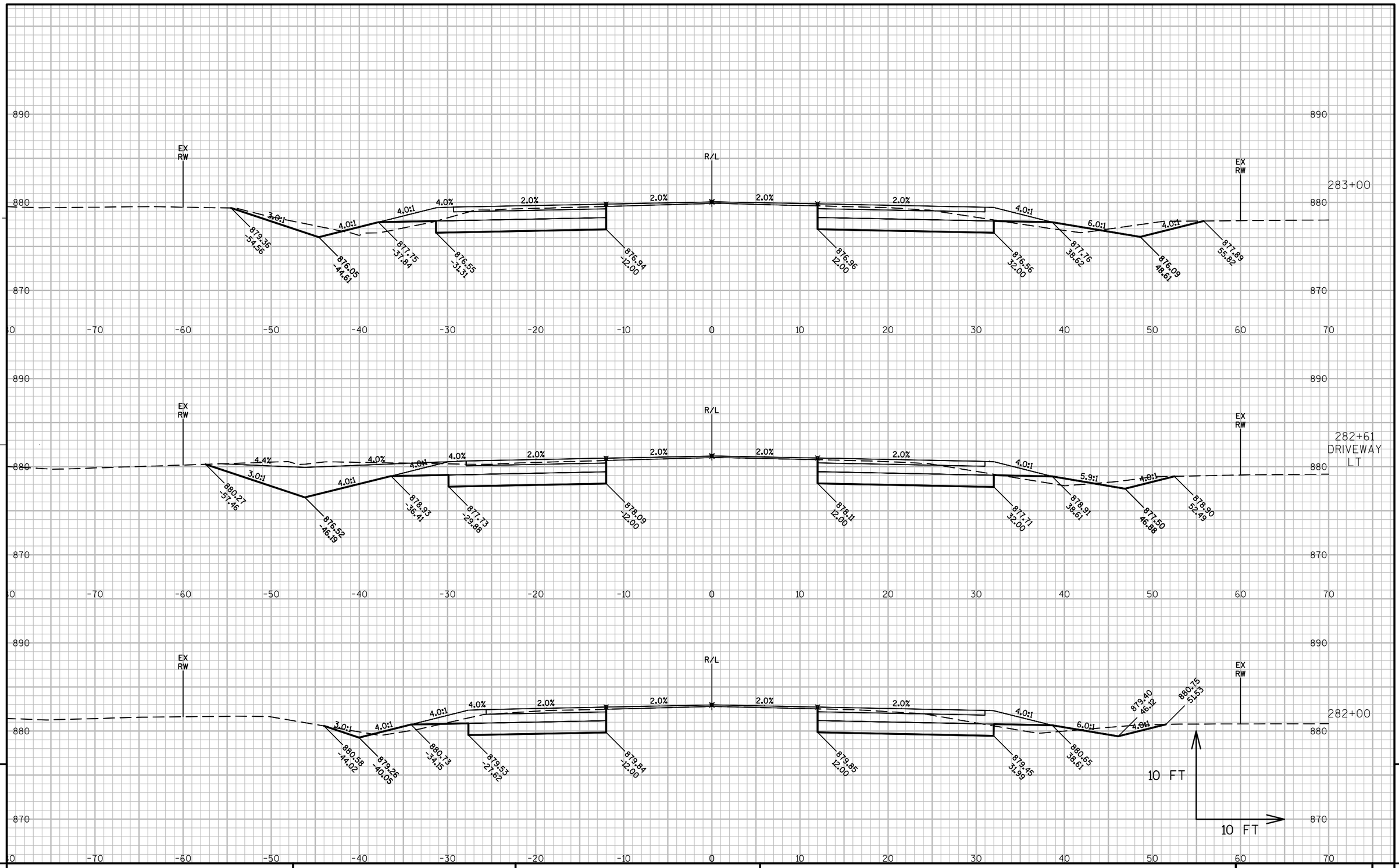


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 371	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020196

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

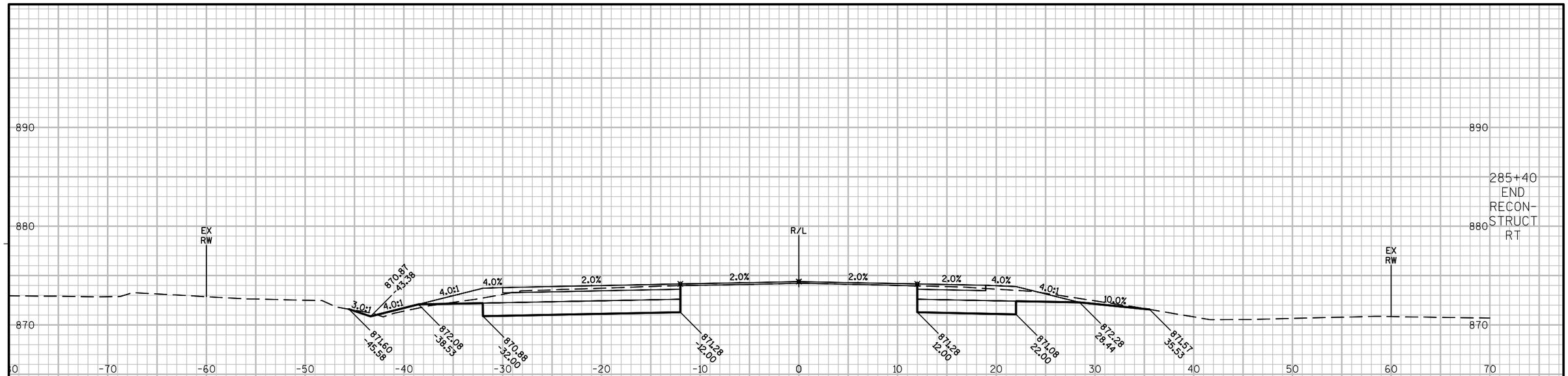


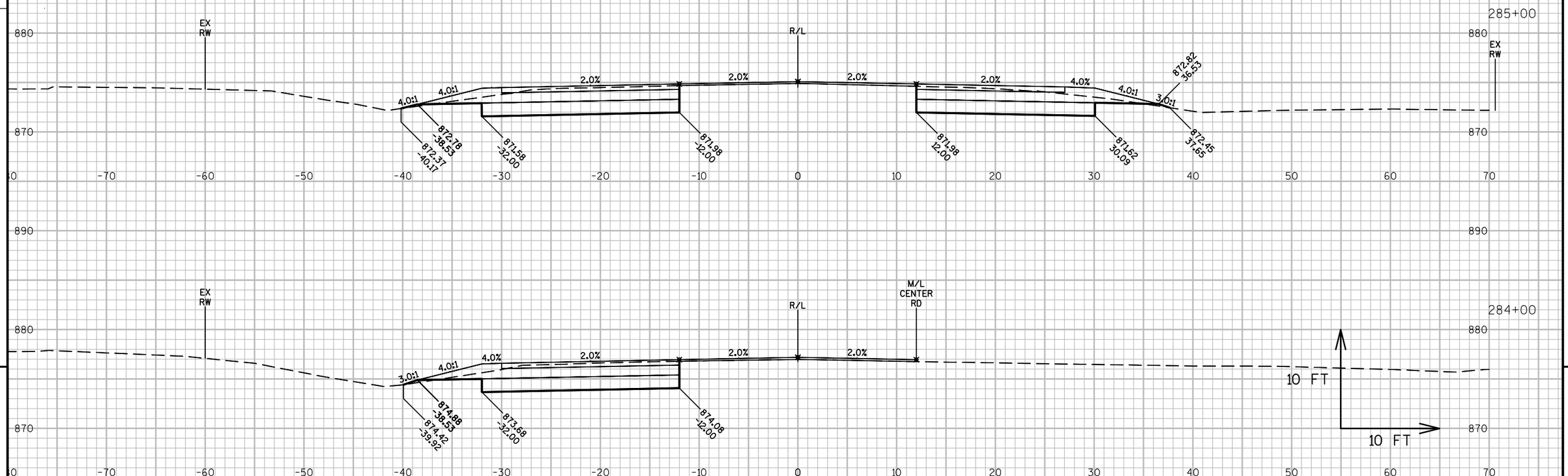
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 372	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020197

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49





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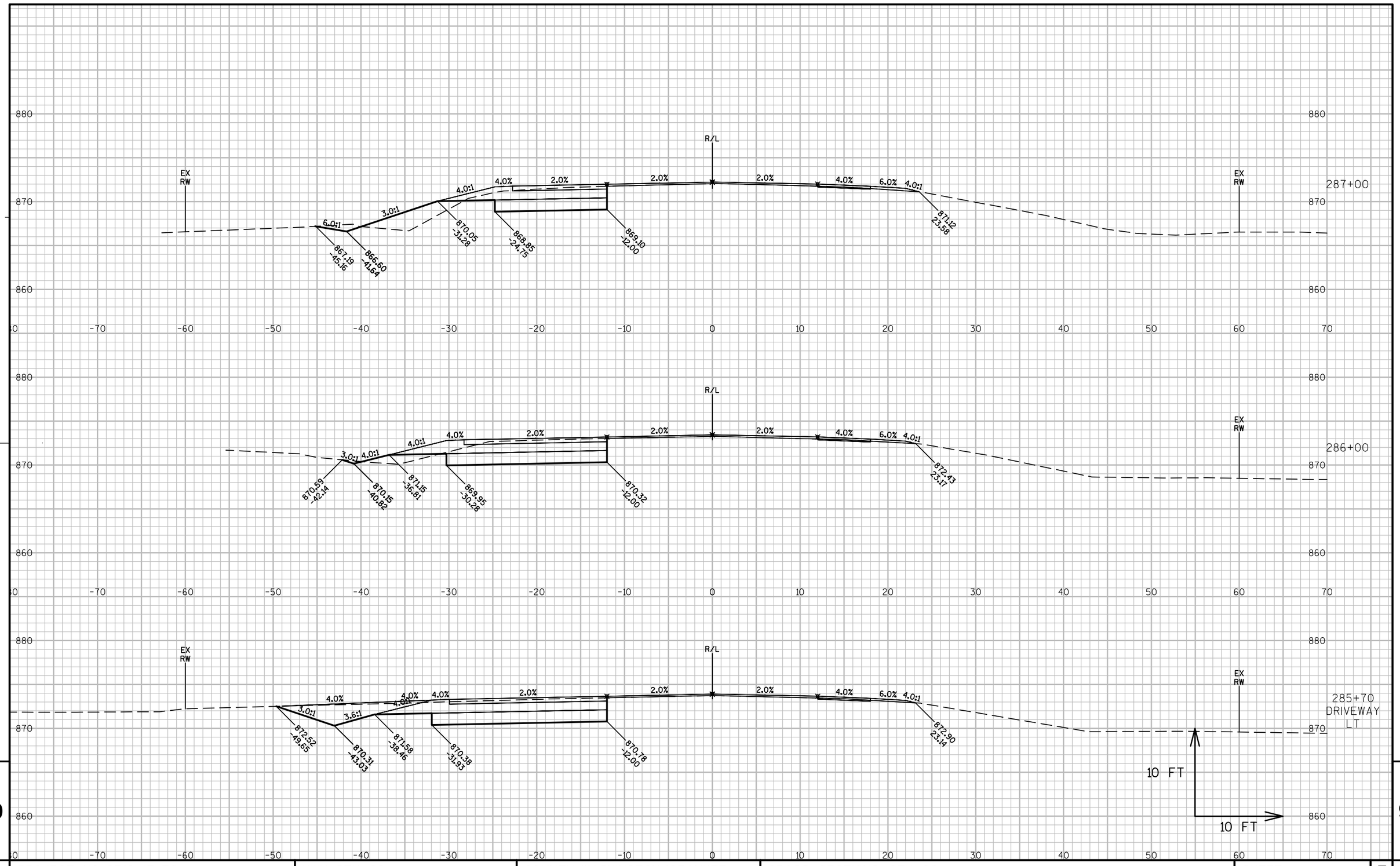
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 373	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020198

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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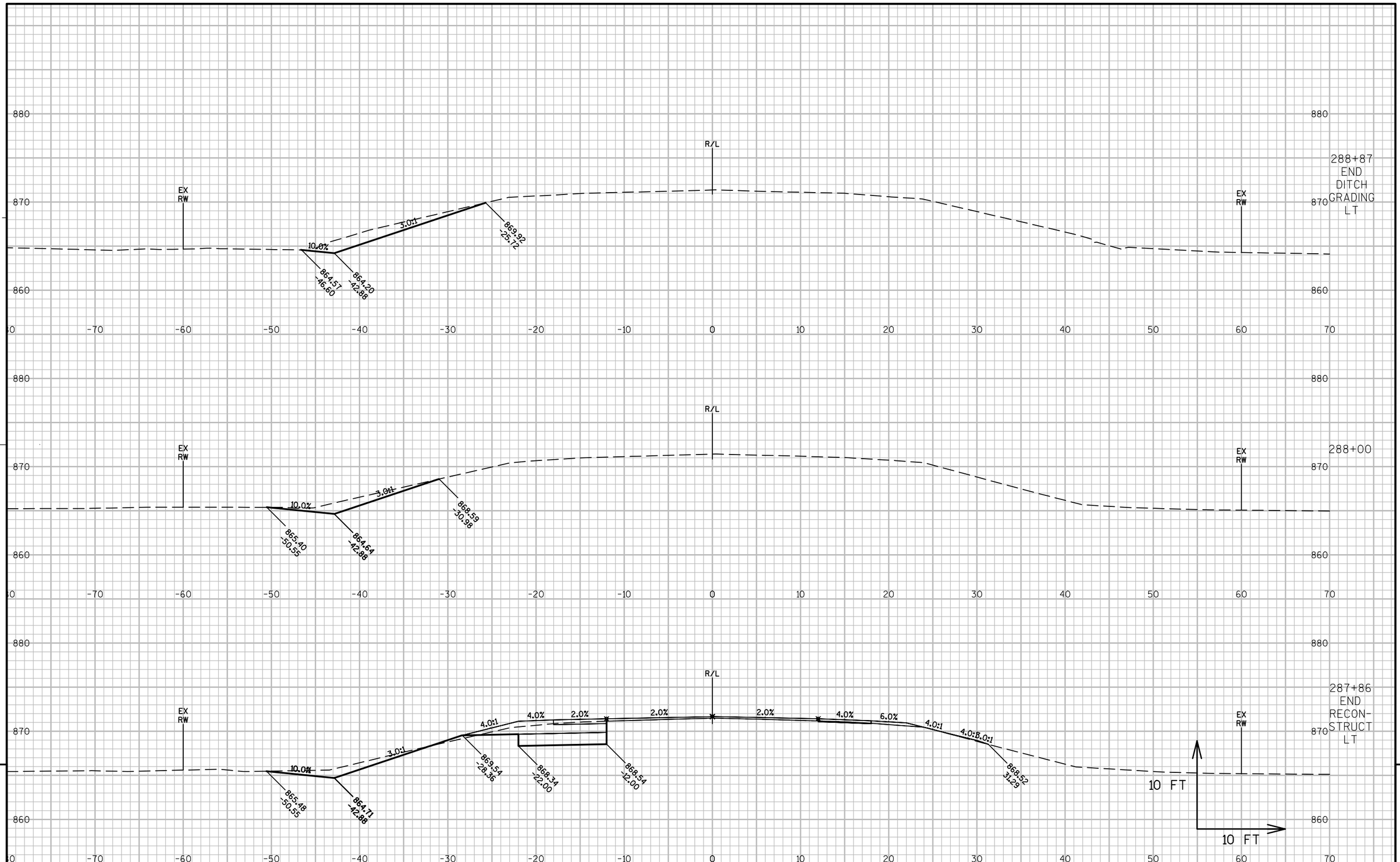
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 374	E

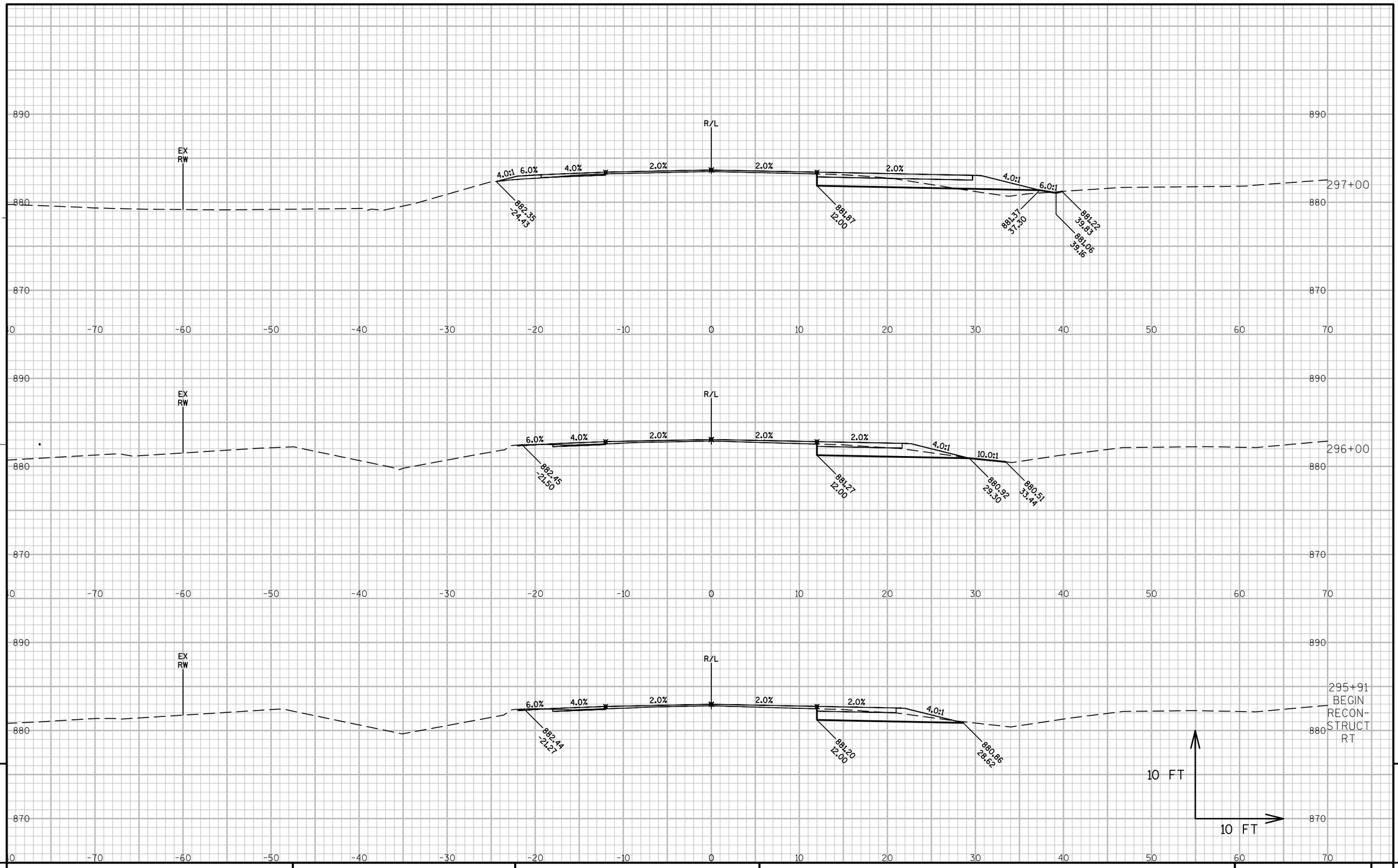


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 375	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020200

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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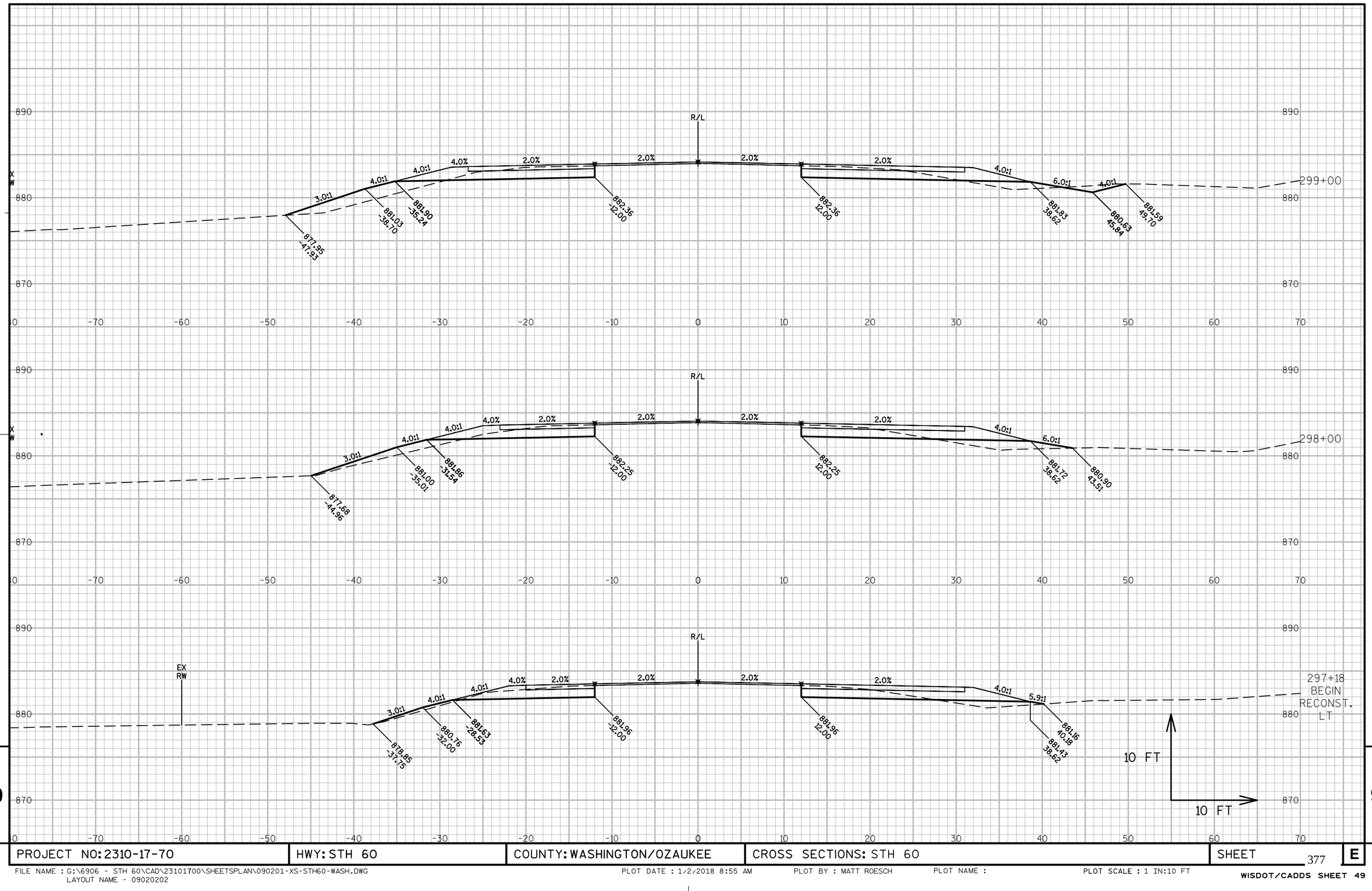
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 376	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020201

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

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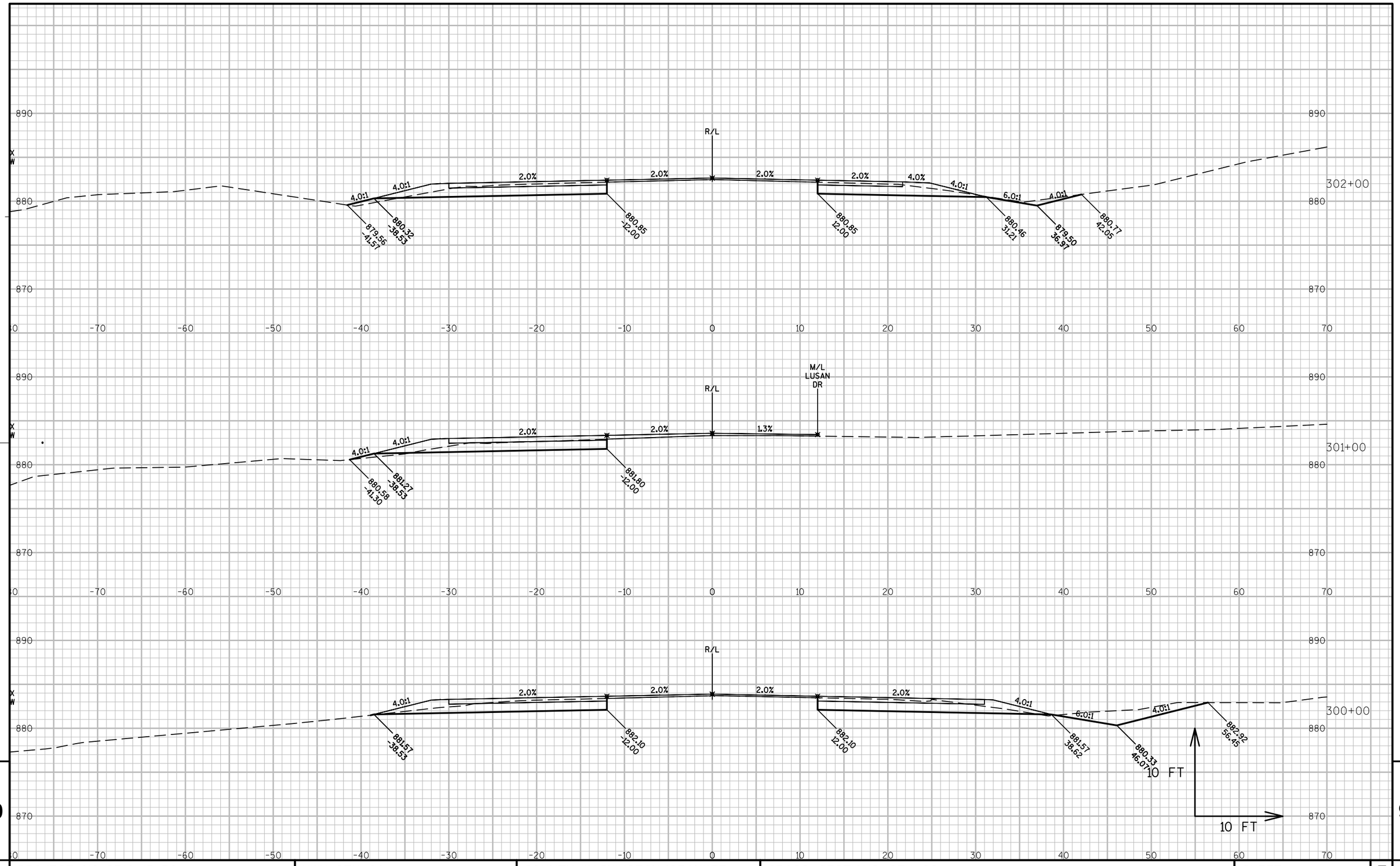
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 377	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020202

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT



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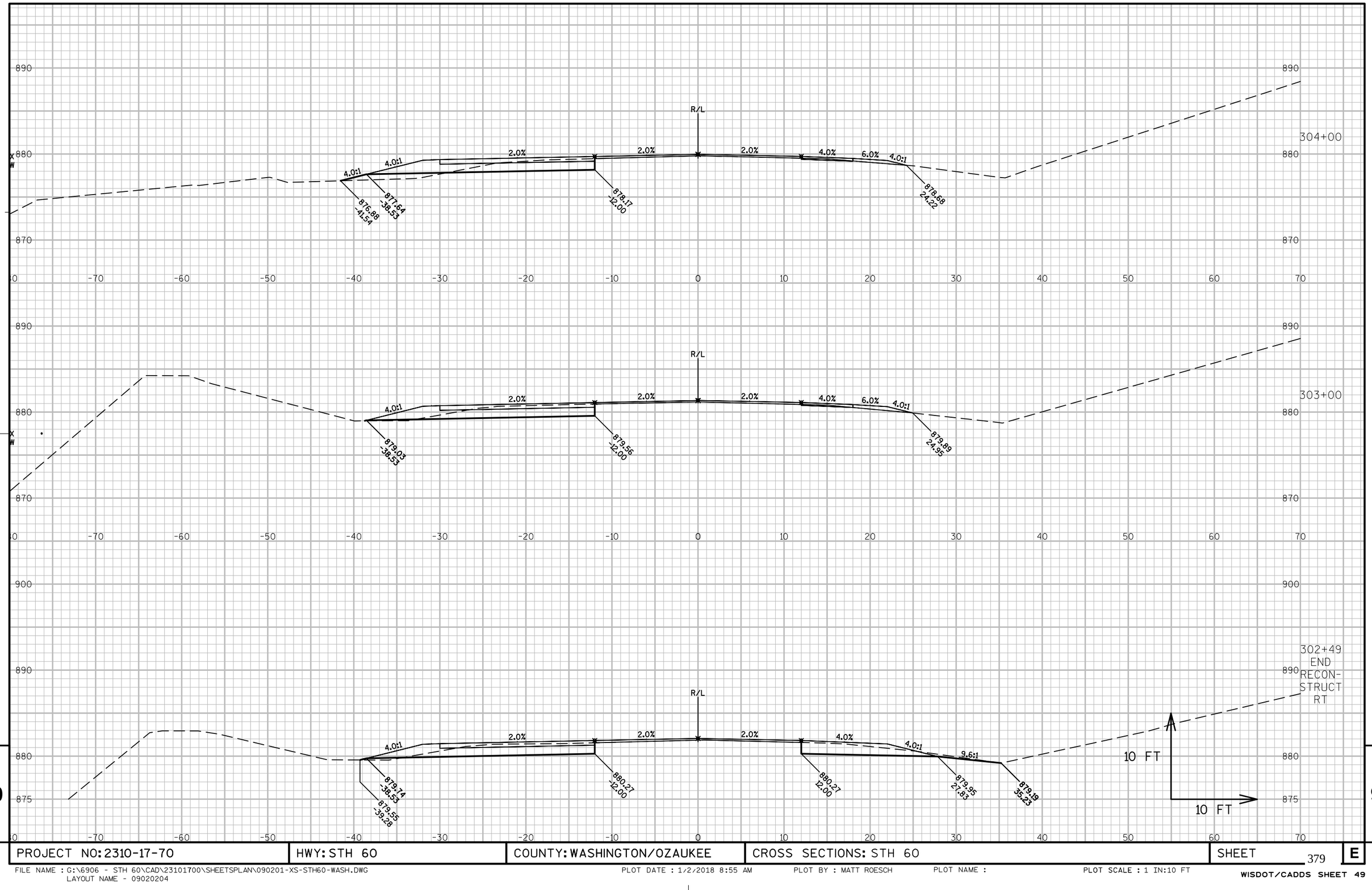
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 378	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020203

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT

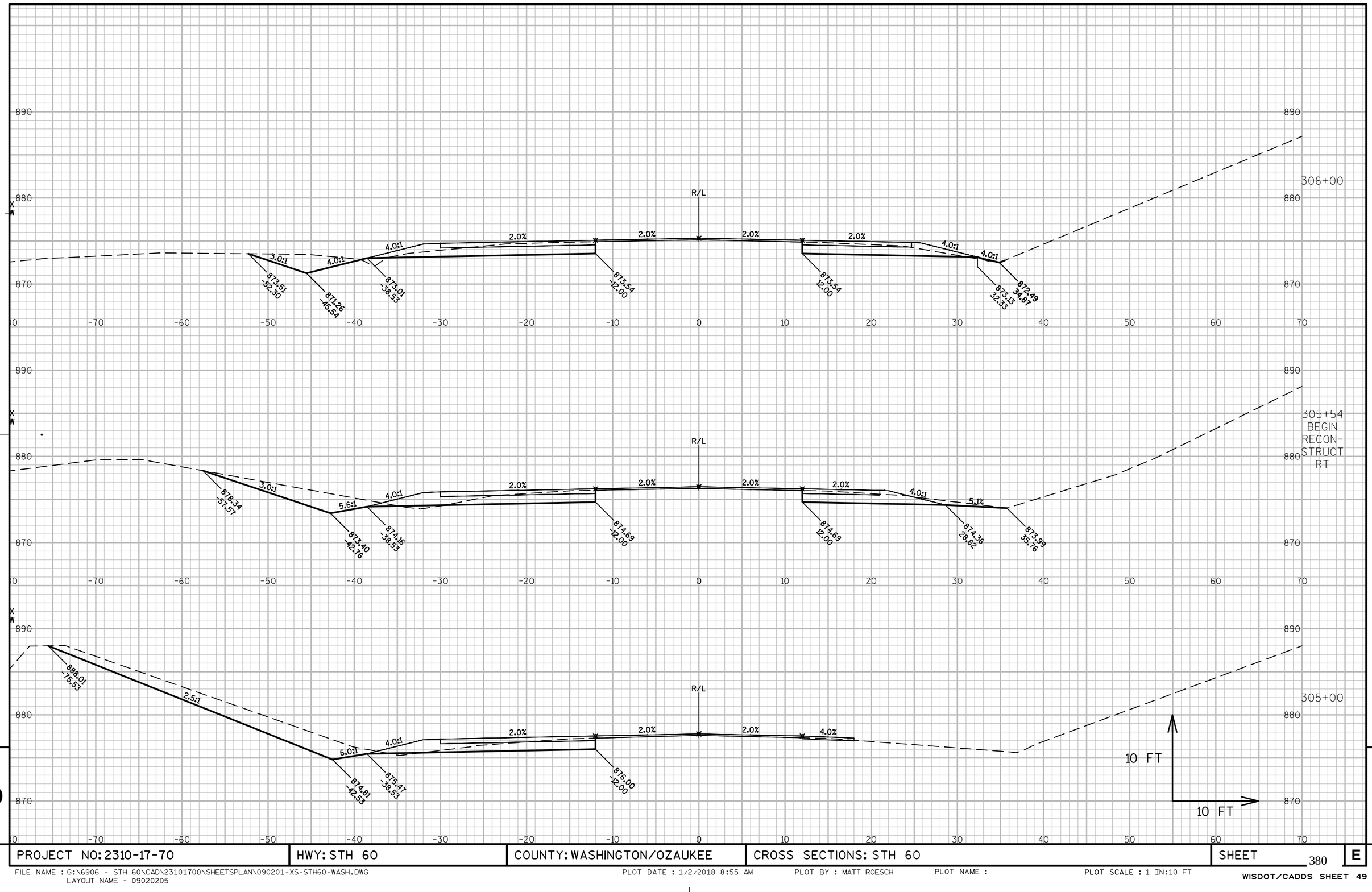


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 379	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020204

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

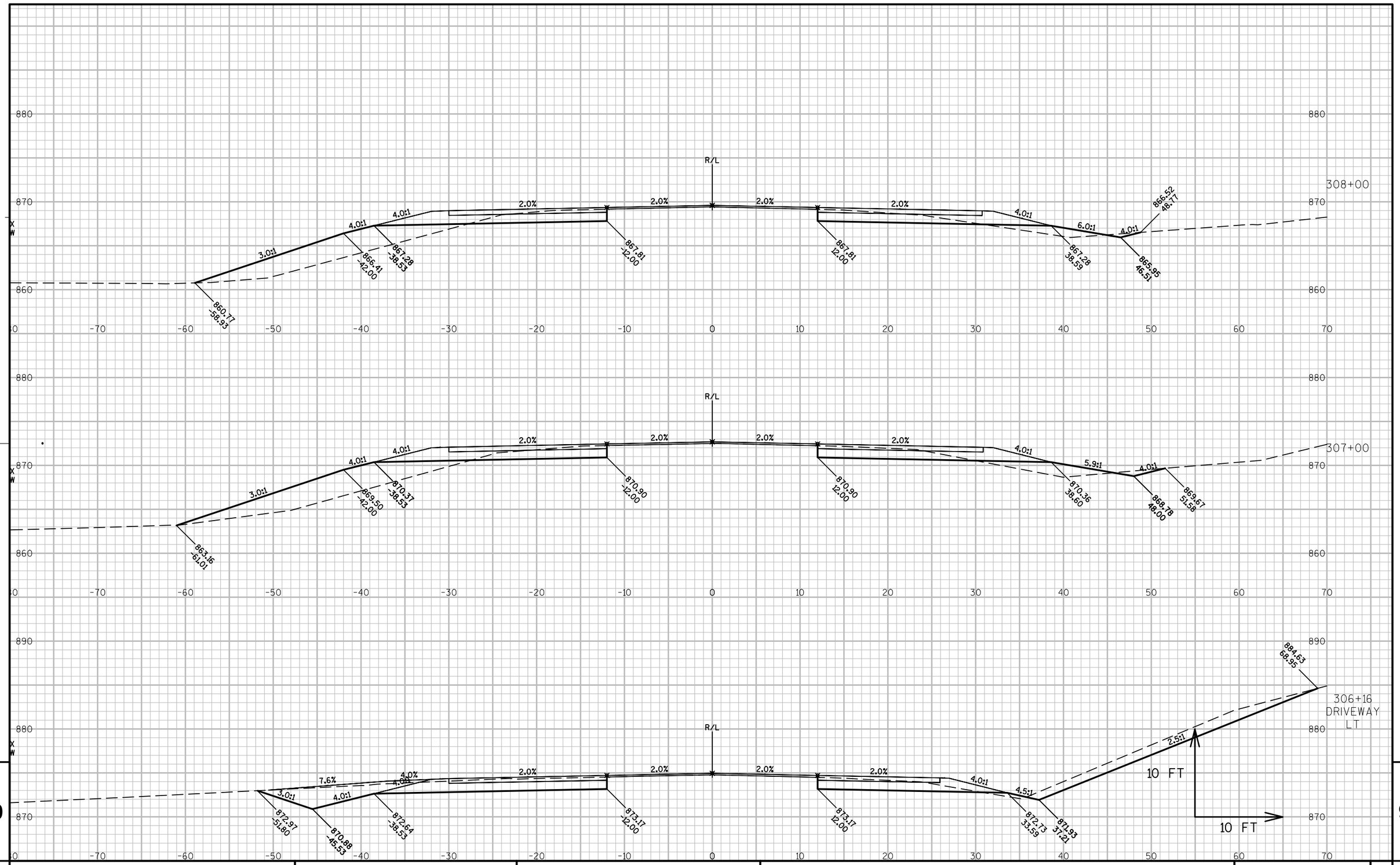


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 380	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020205

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

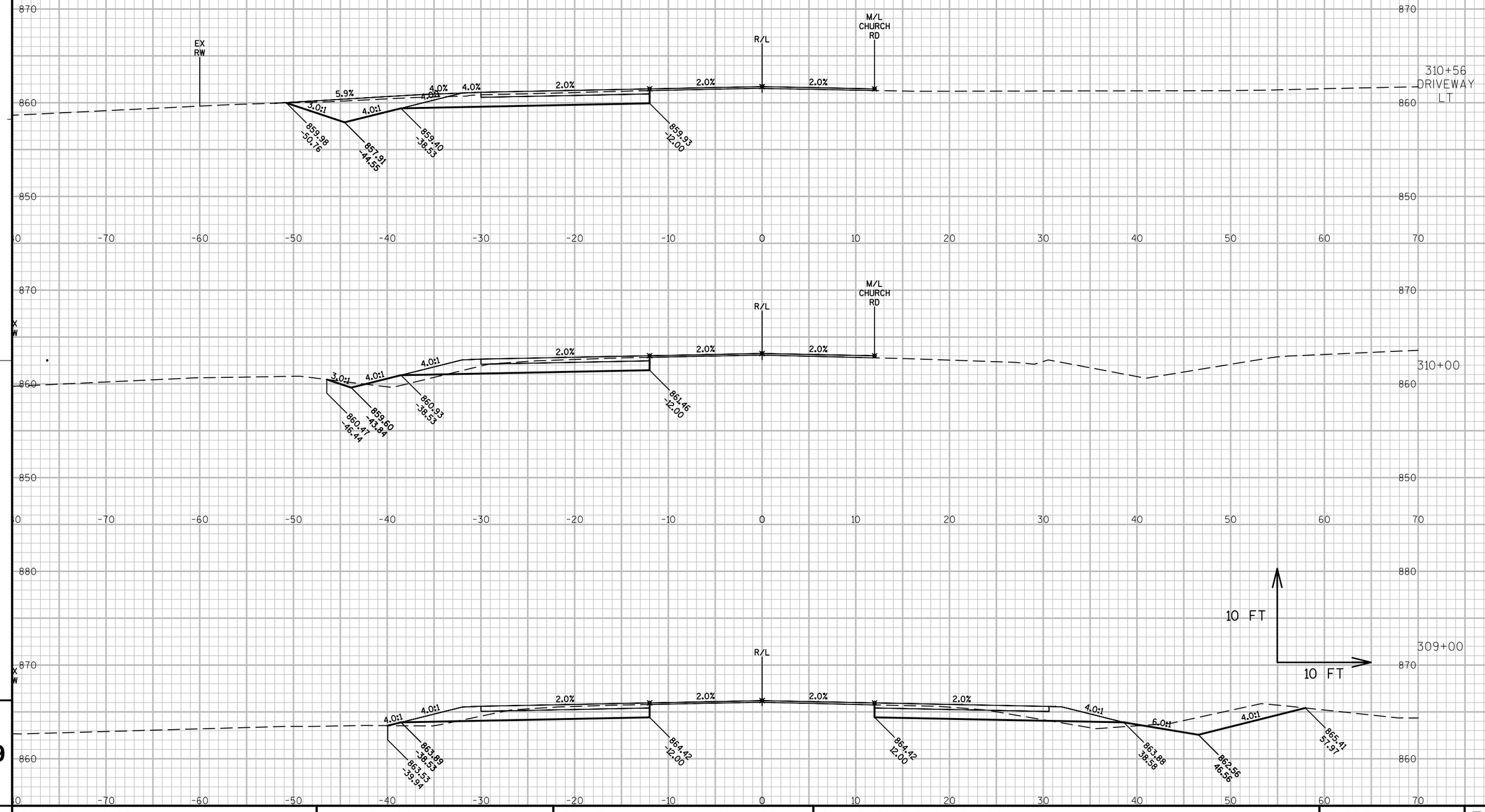


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 381	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020206

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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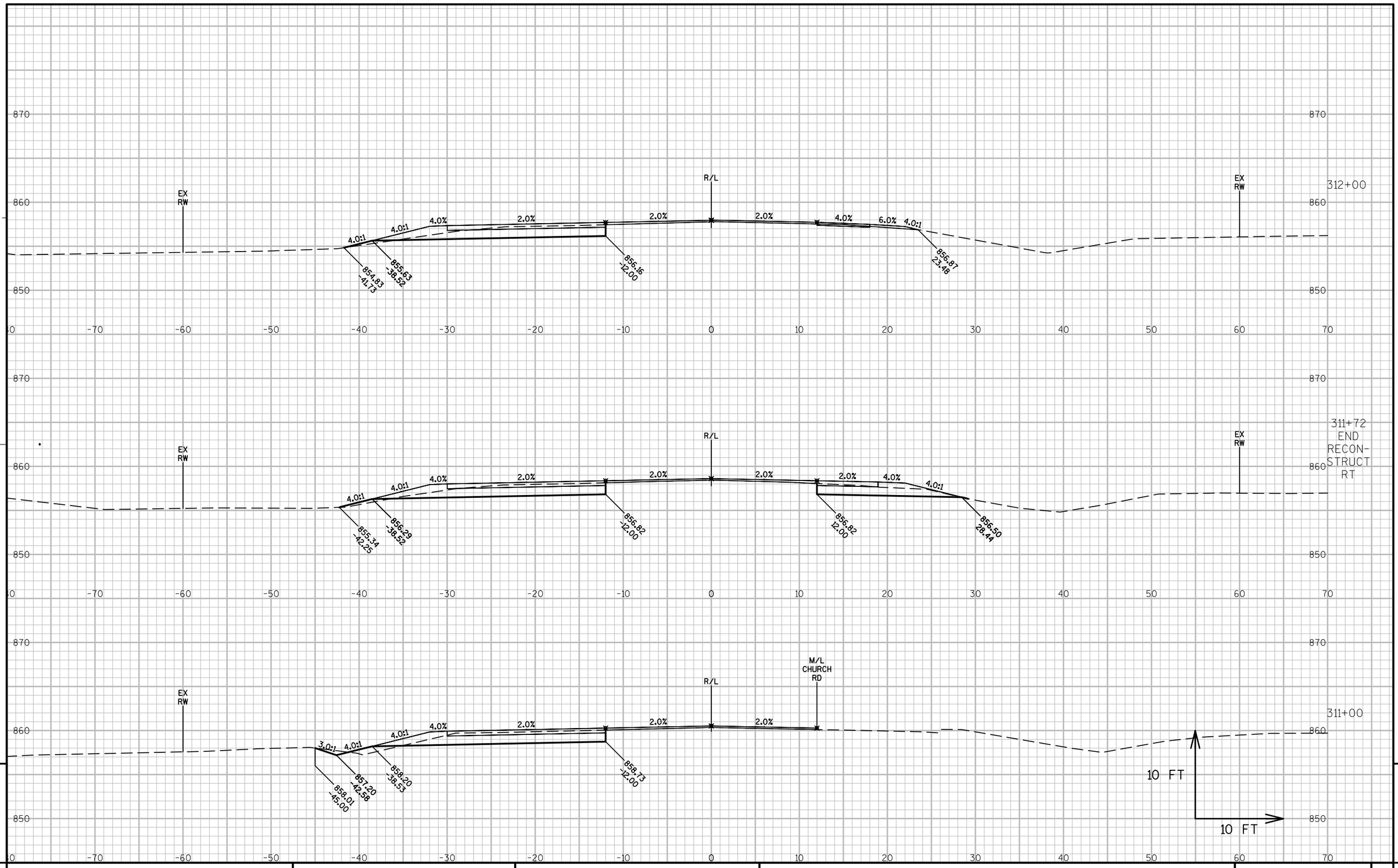
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 382	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020207
PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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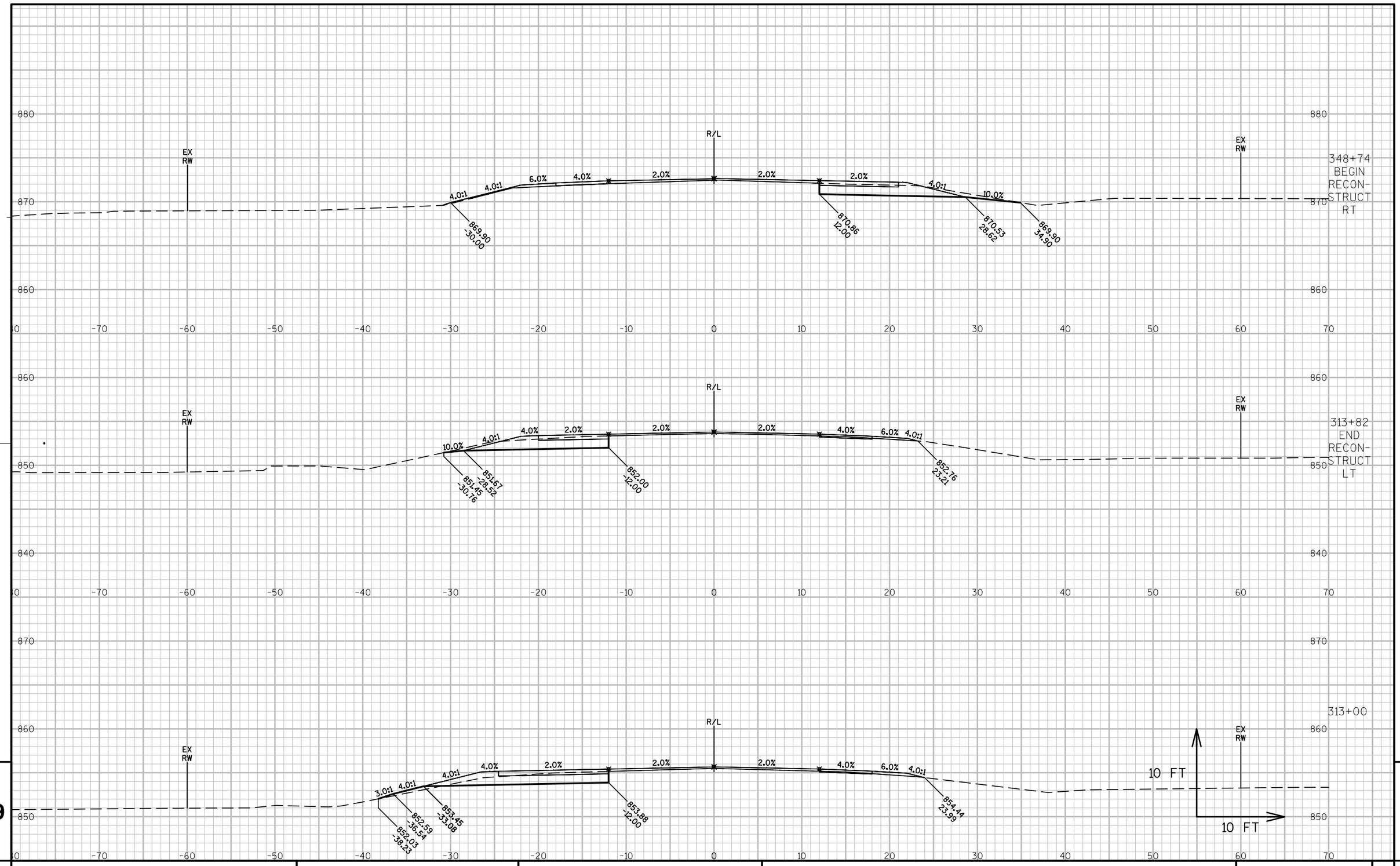
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 383	E

9

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020208

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT

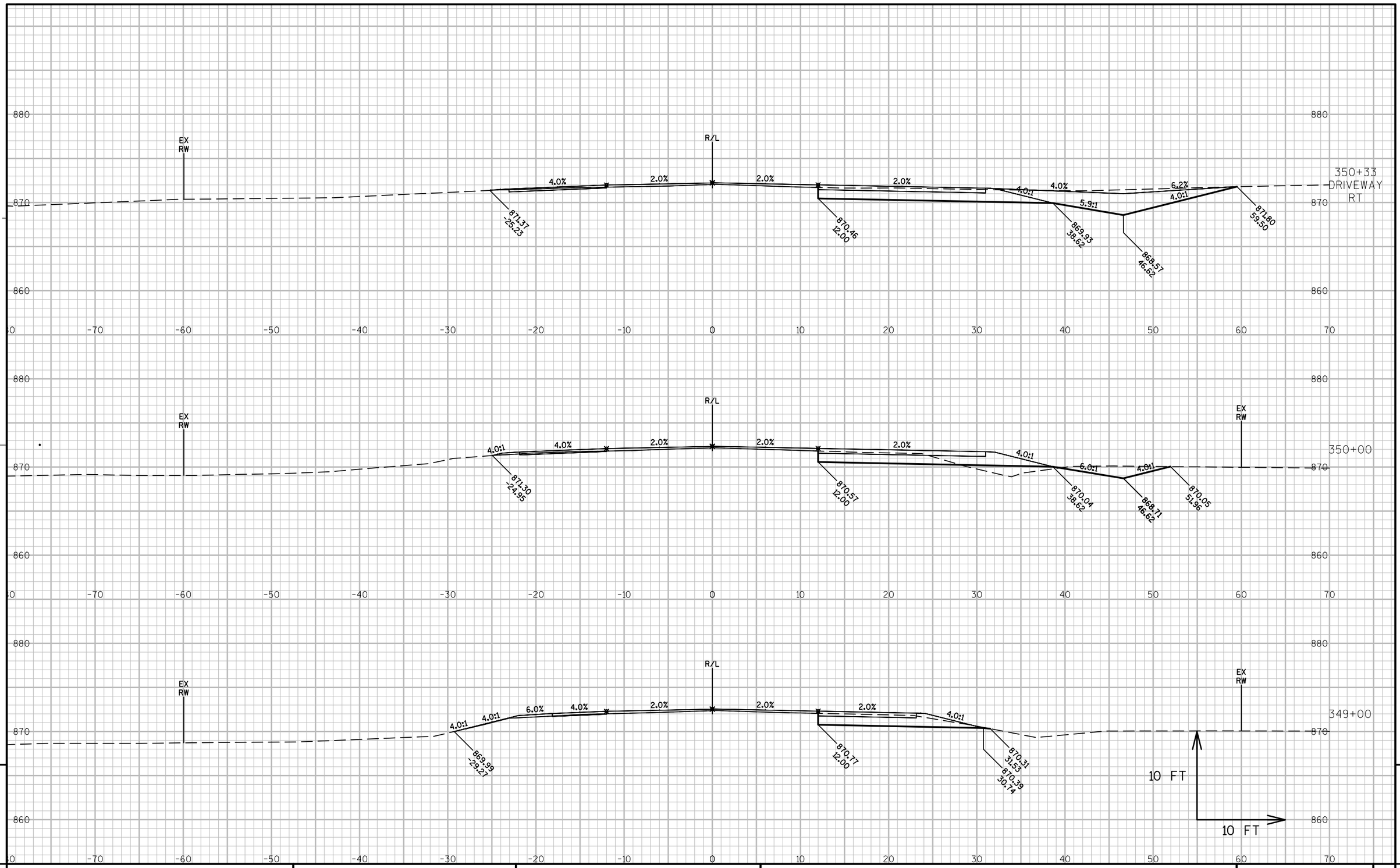


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 384	E

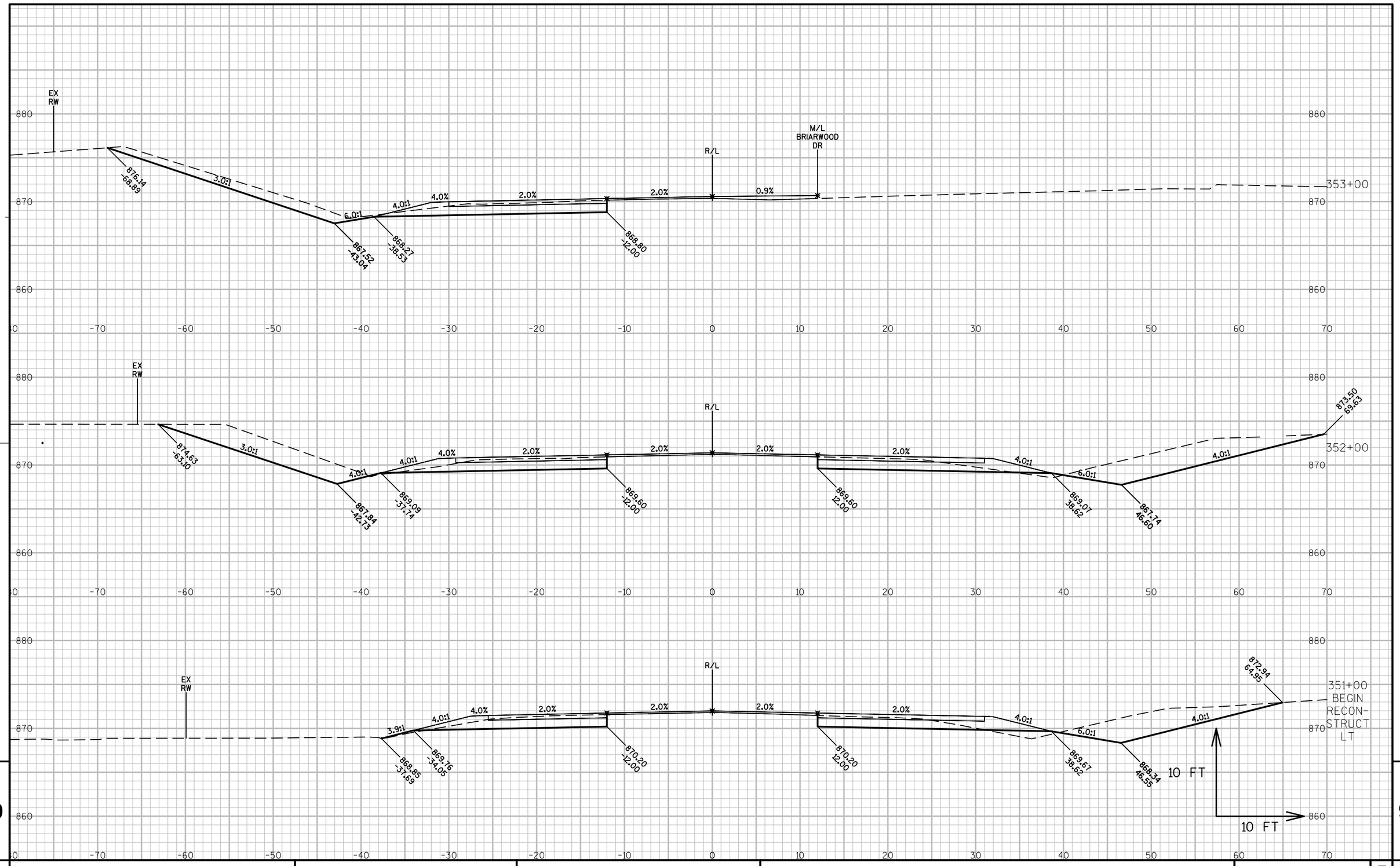
FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020209

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT

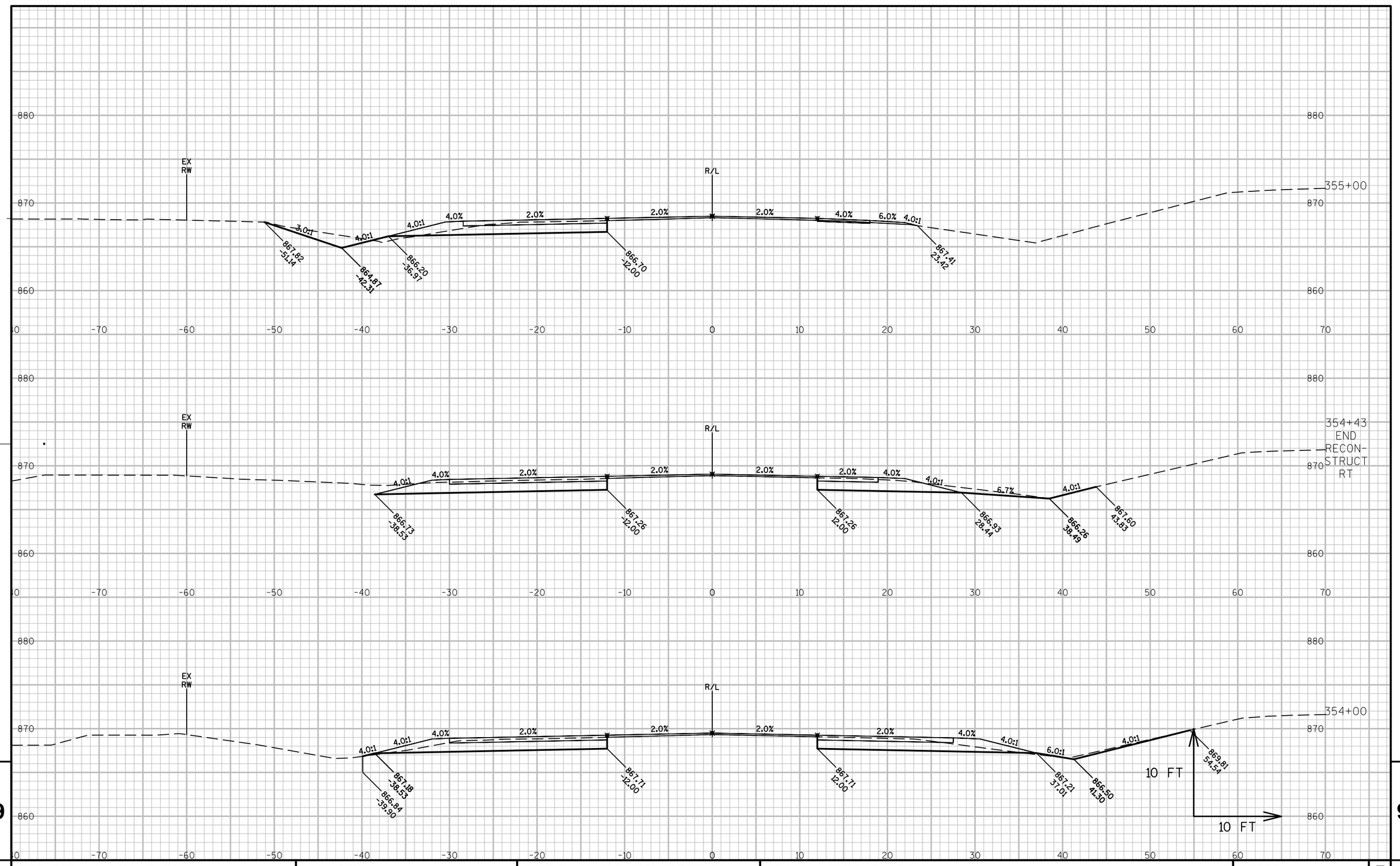
WISDOT/CADDS SHEET 49



PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 385	E



PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 386	E



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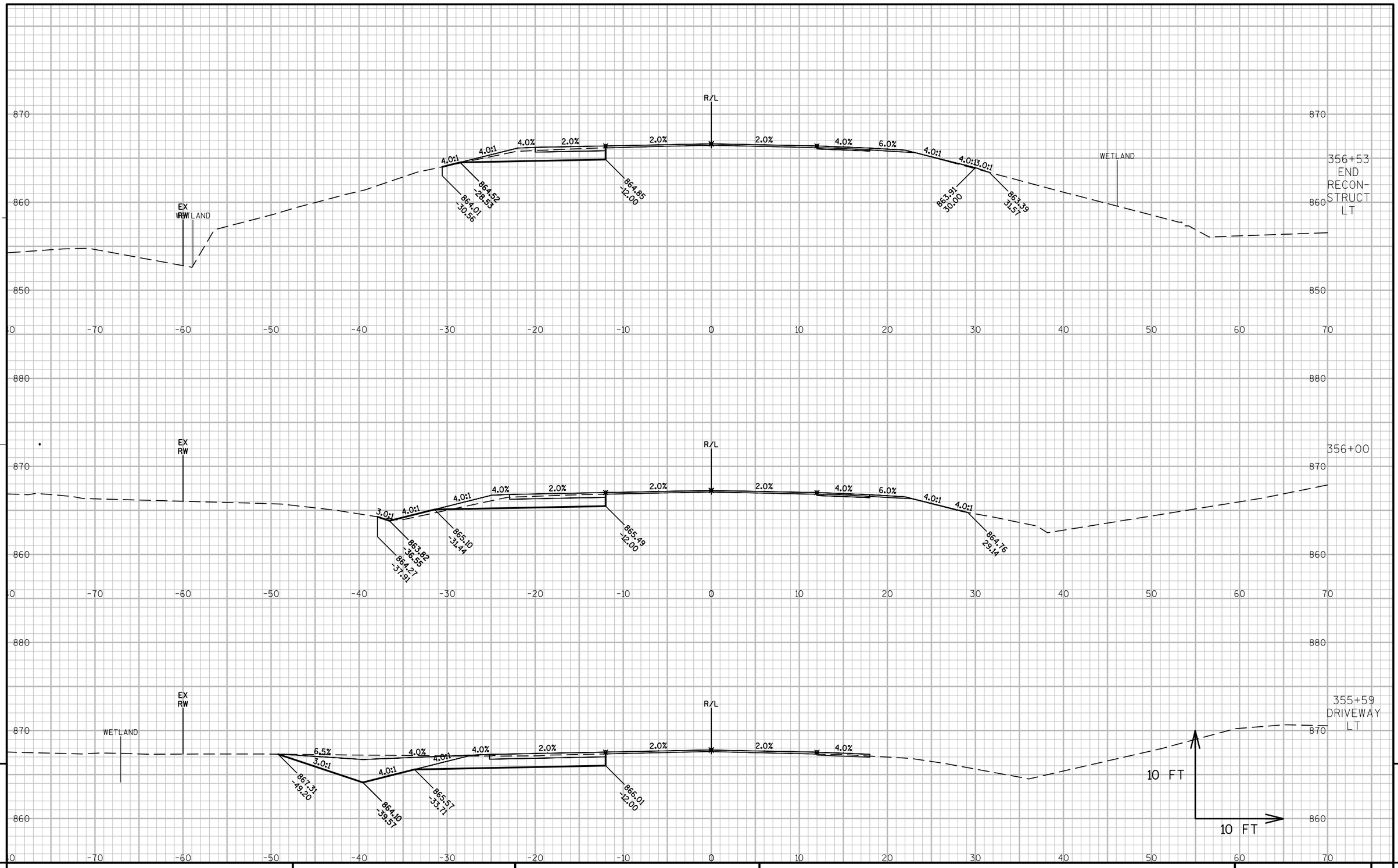
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 387	E



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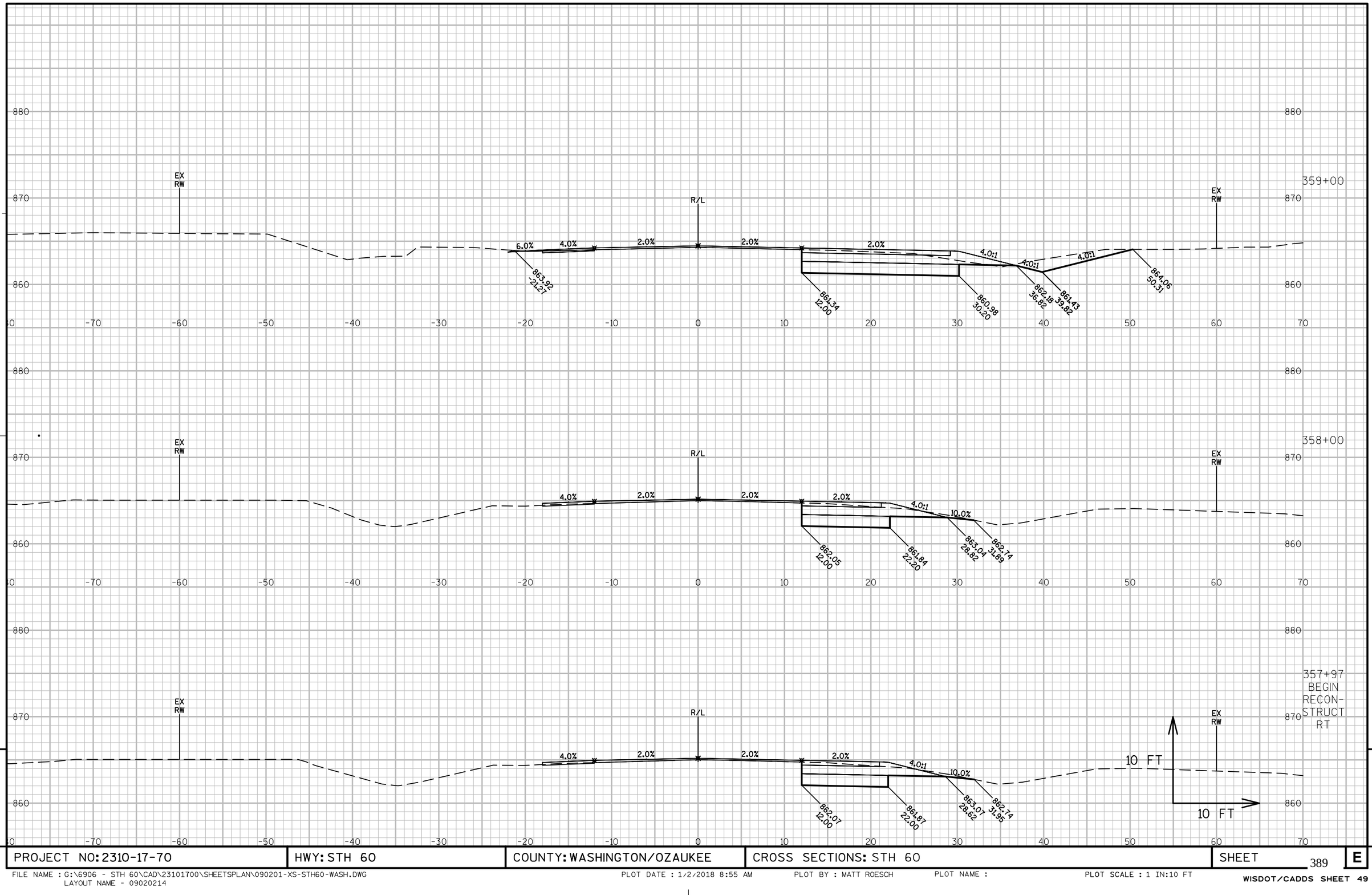
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 388	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020213

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

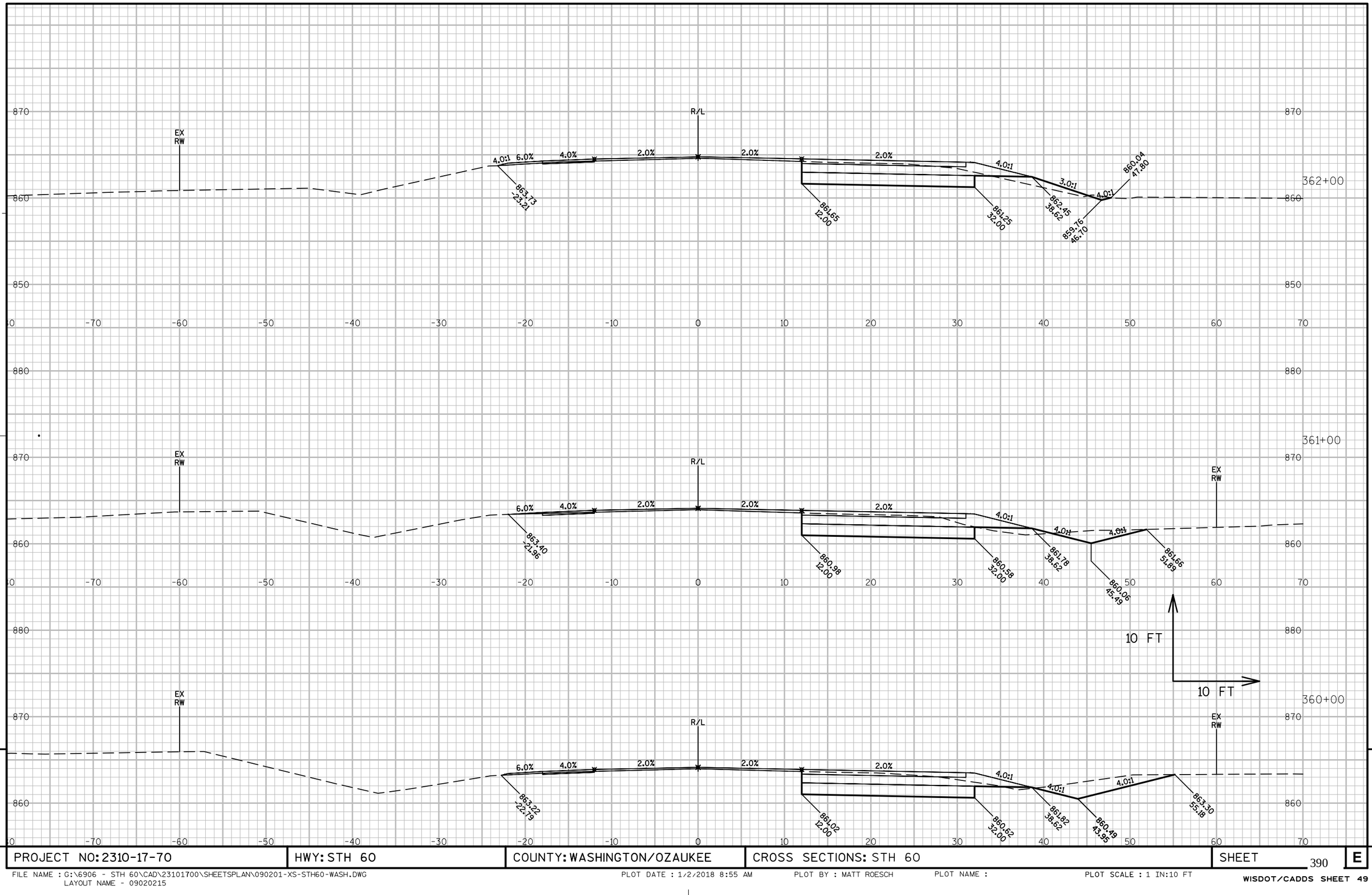


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 389	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020214

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

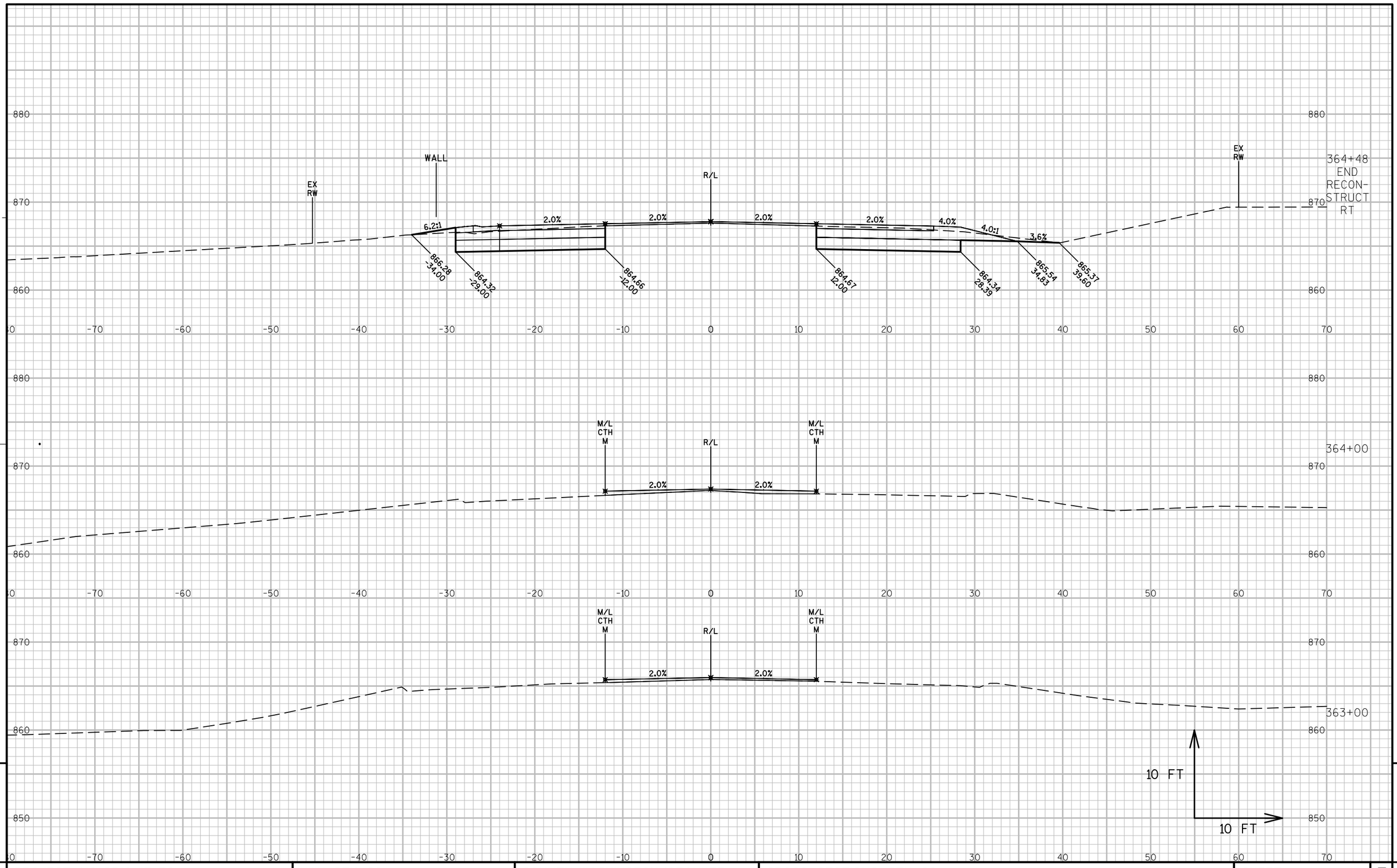


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 390	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020215

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 391	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020216

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

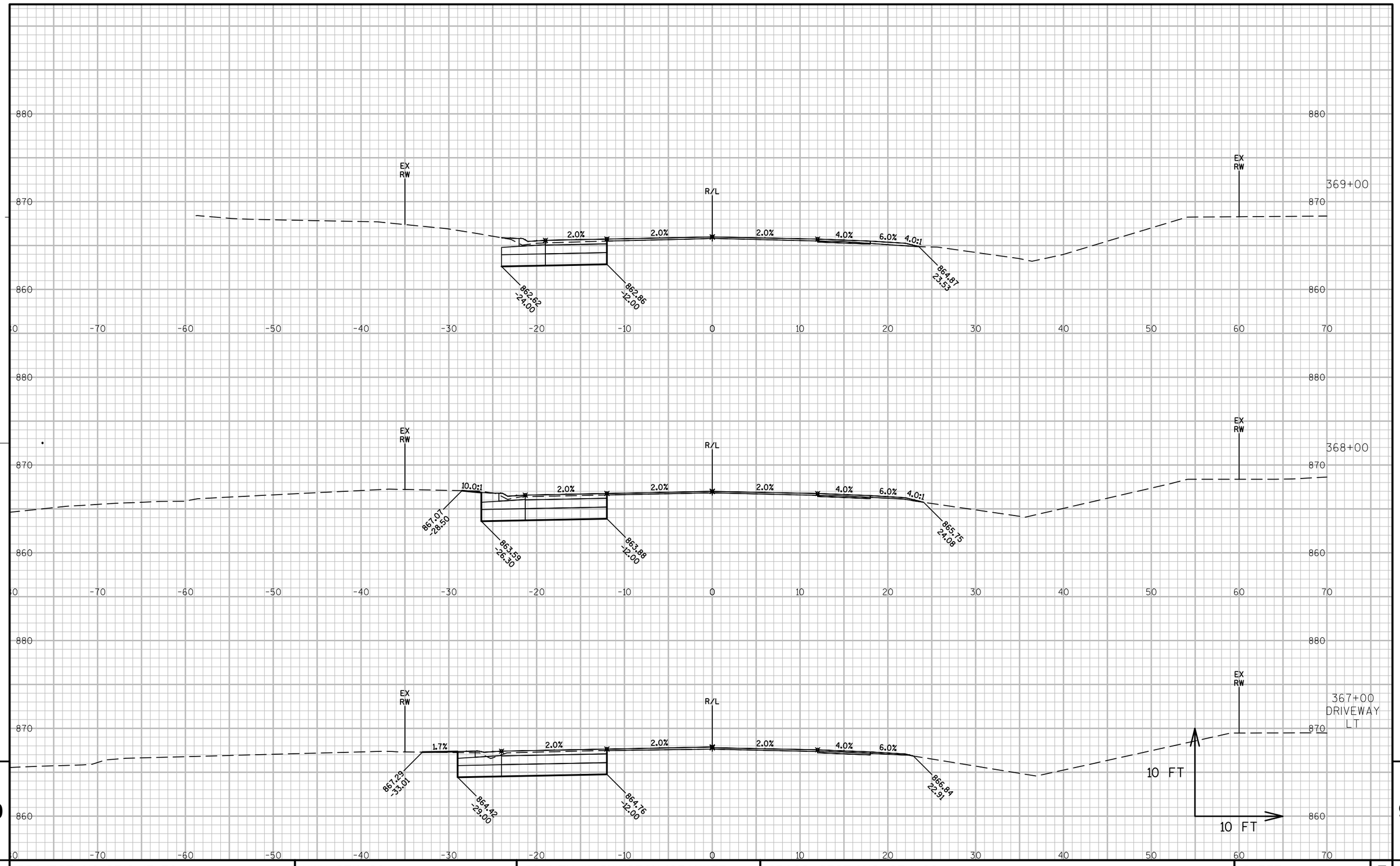
9

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 392	E

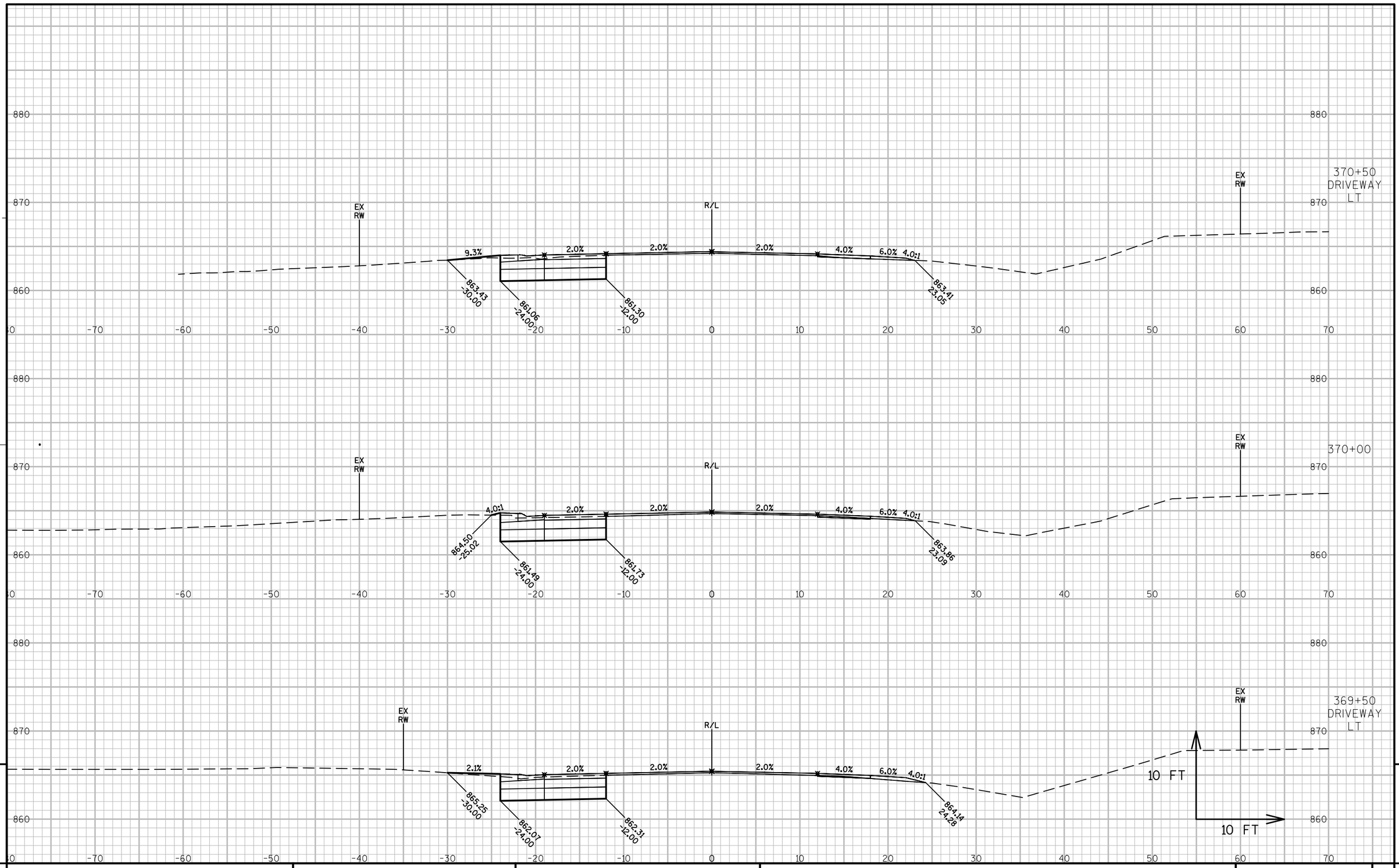
FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020217

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

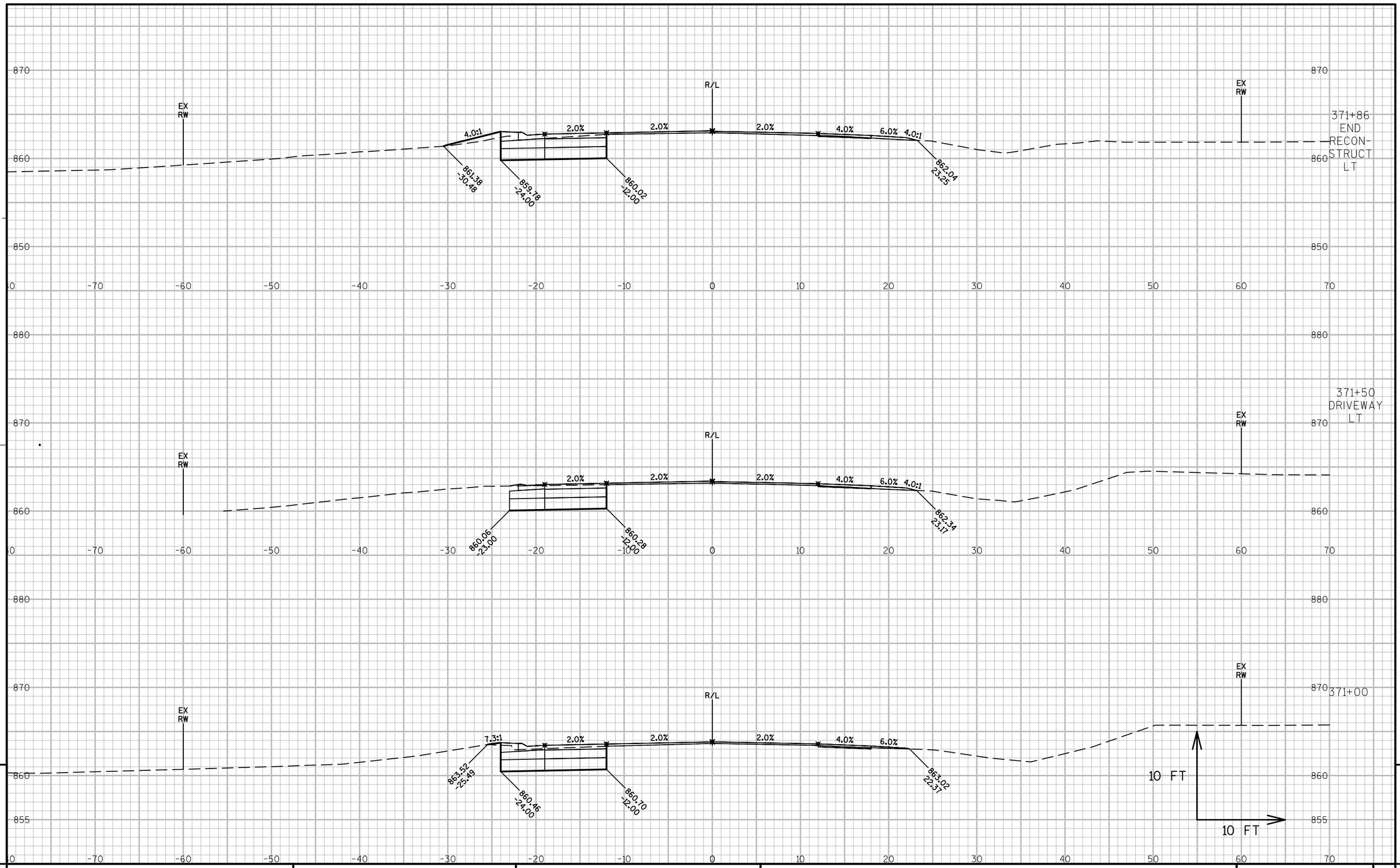


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 393	E



PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 394	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020219
PLOT DATE : 1/2/2018 8:55 AM
PLOT BY : MATT ROESCH
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

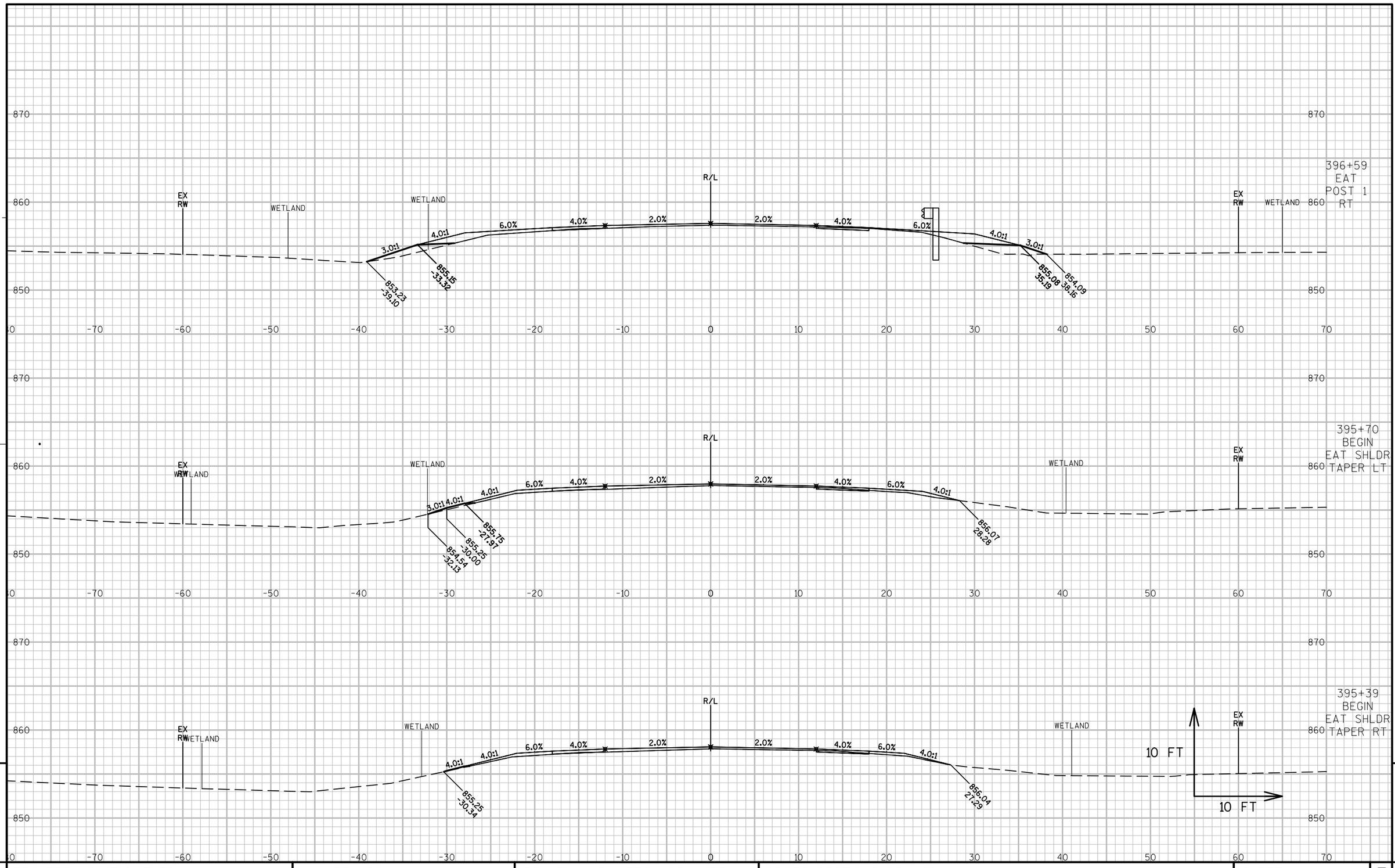


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 395	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020220

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT

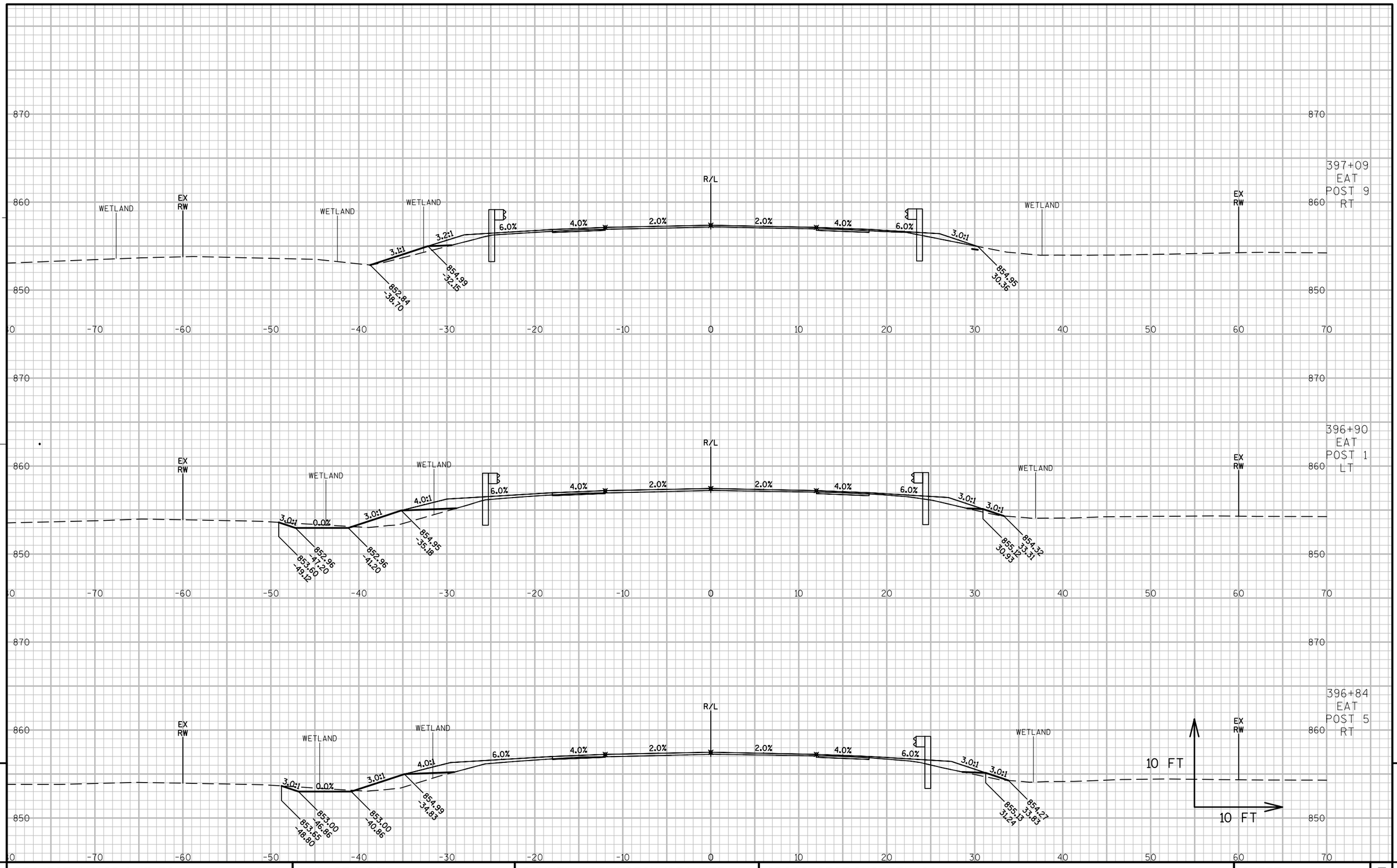
WISDOT/CADDS SHEET 49



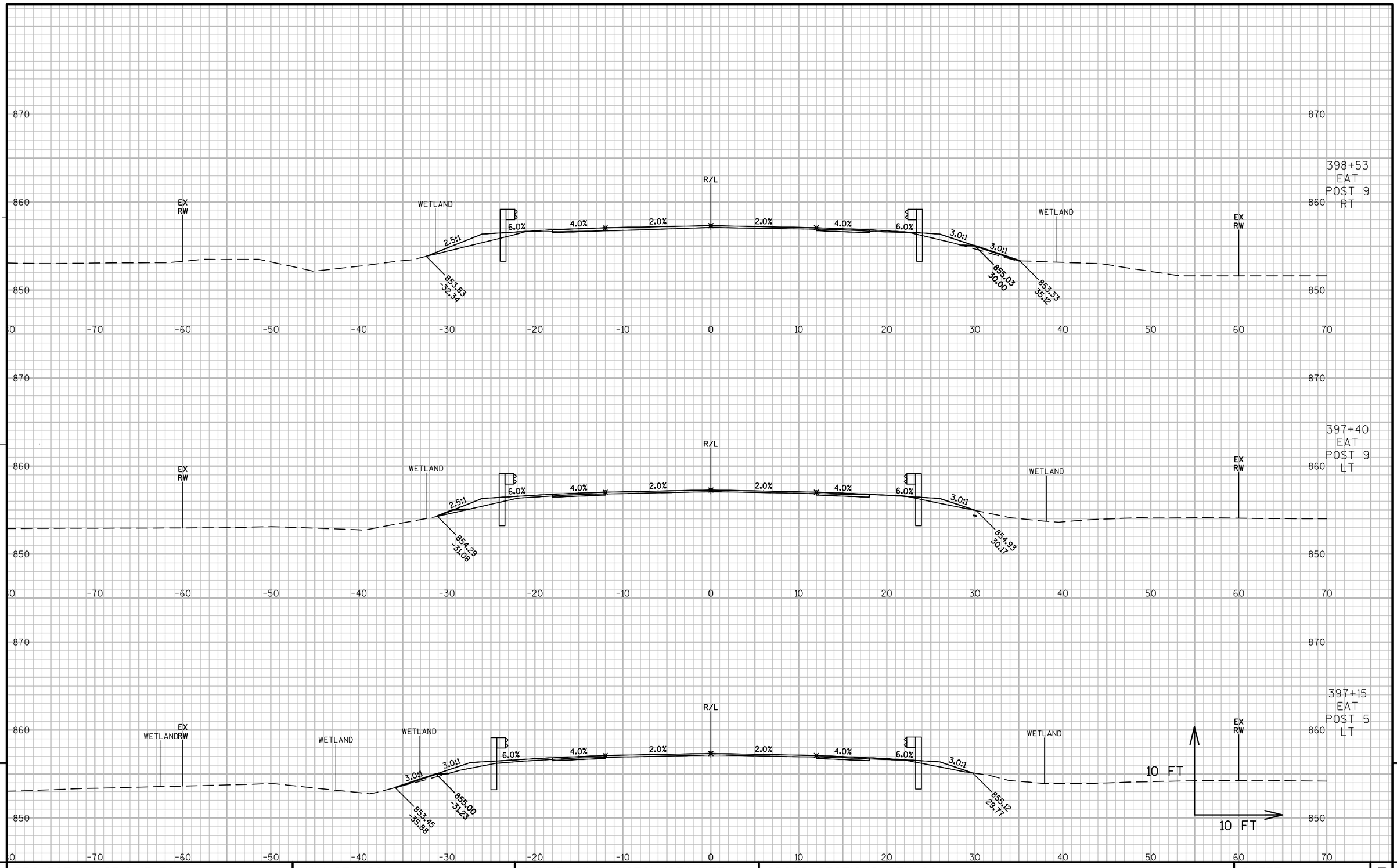
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 396	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020221

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 397	E

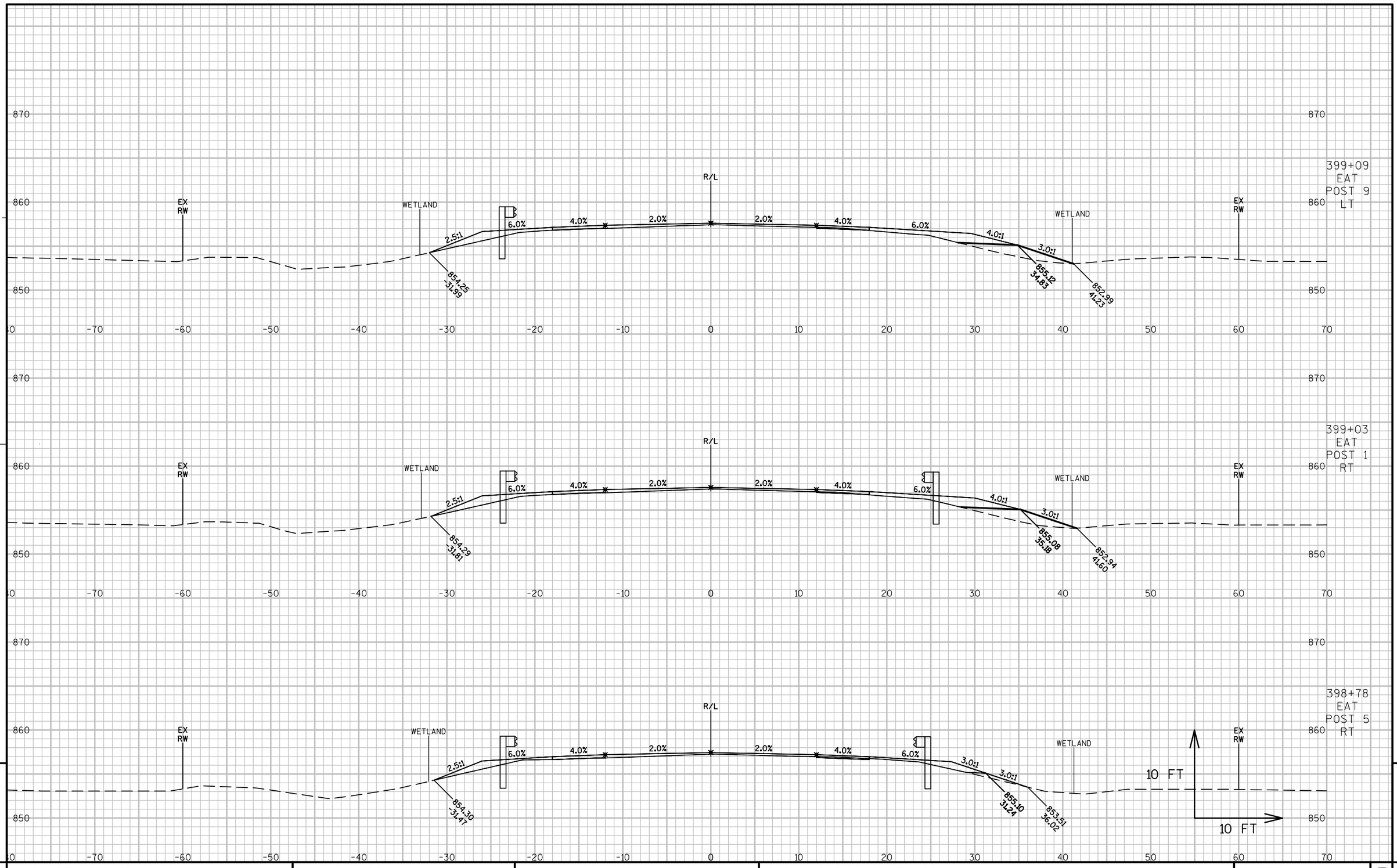


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 398	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020223

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

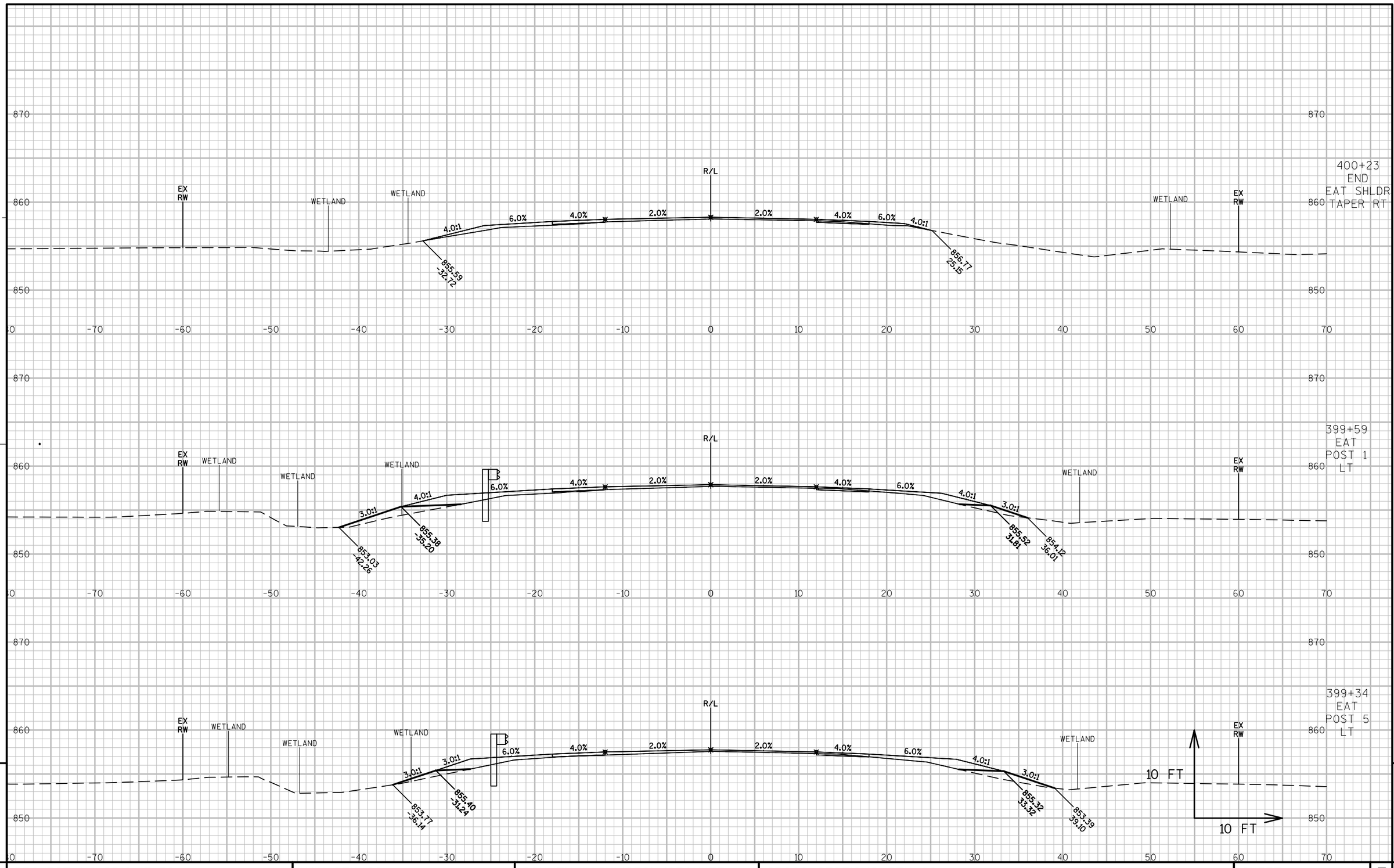


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 399	E

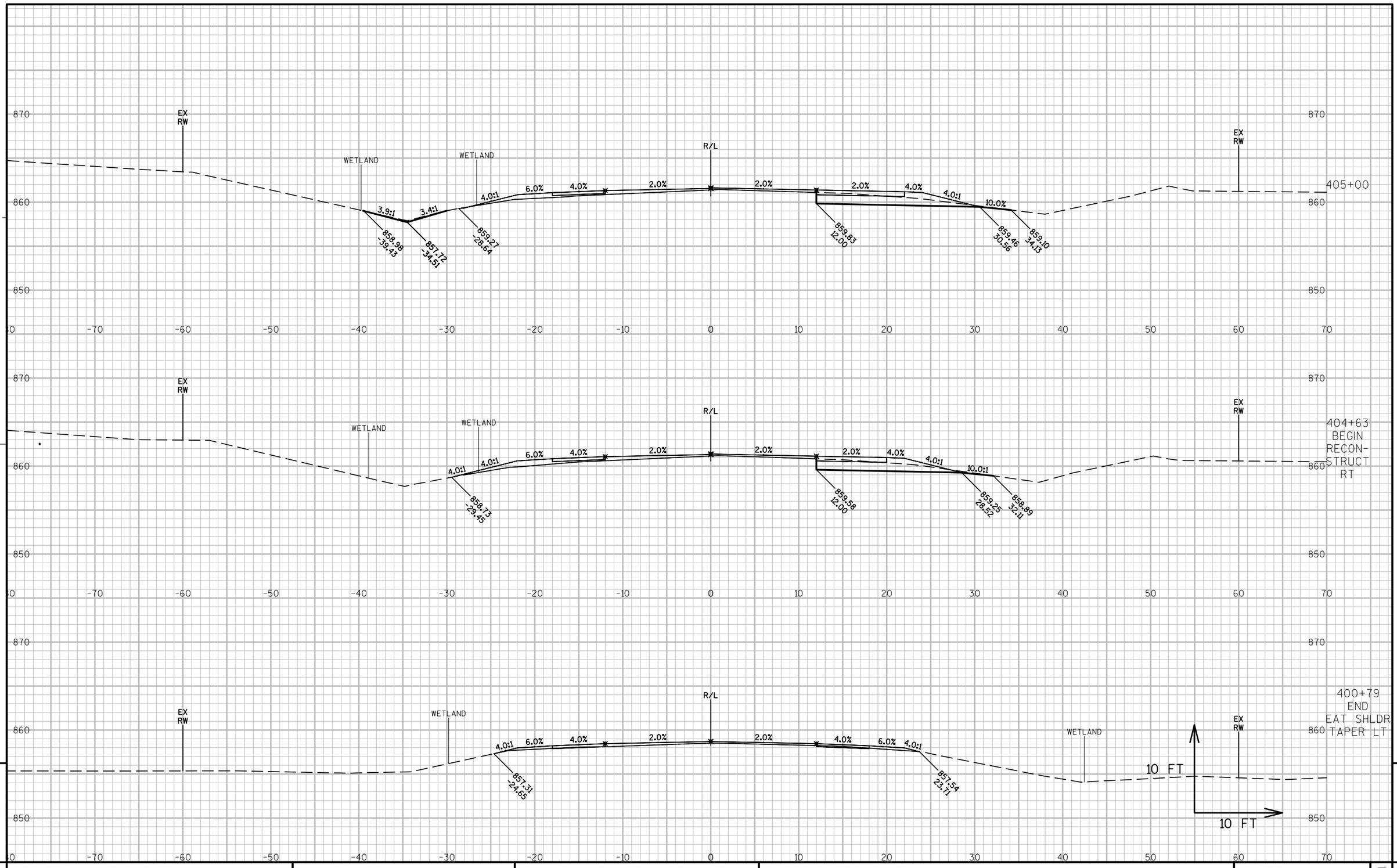
FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020224

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 400	E



PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 401	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 09020226

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT

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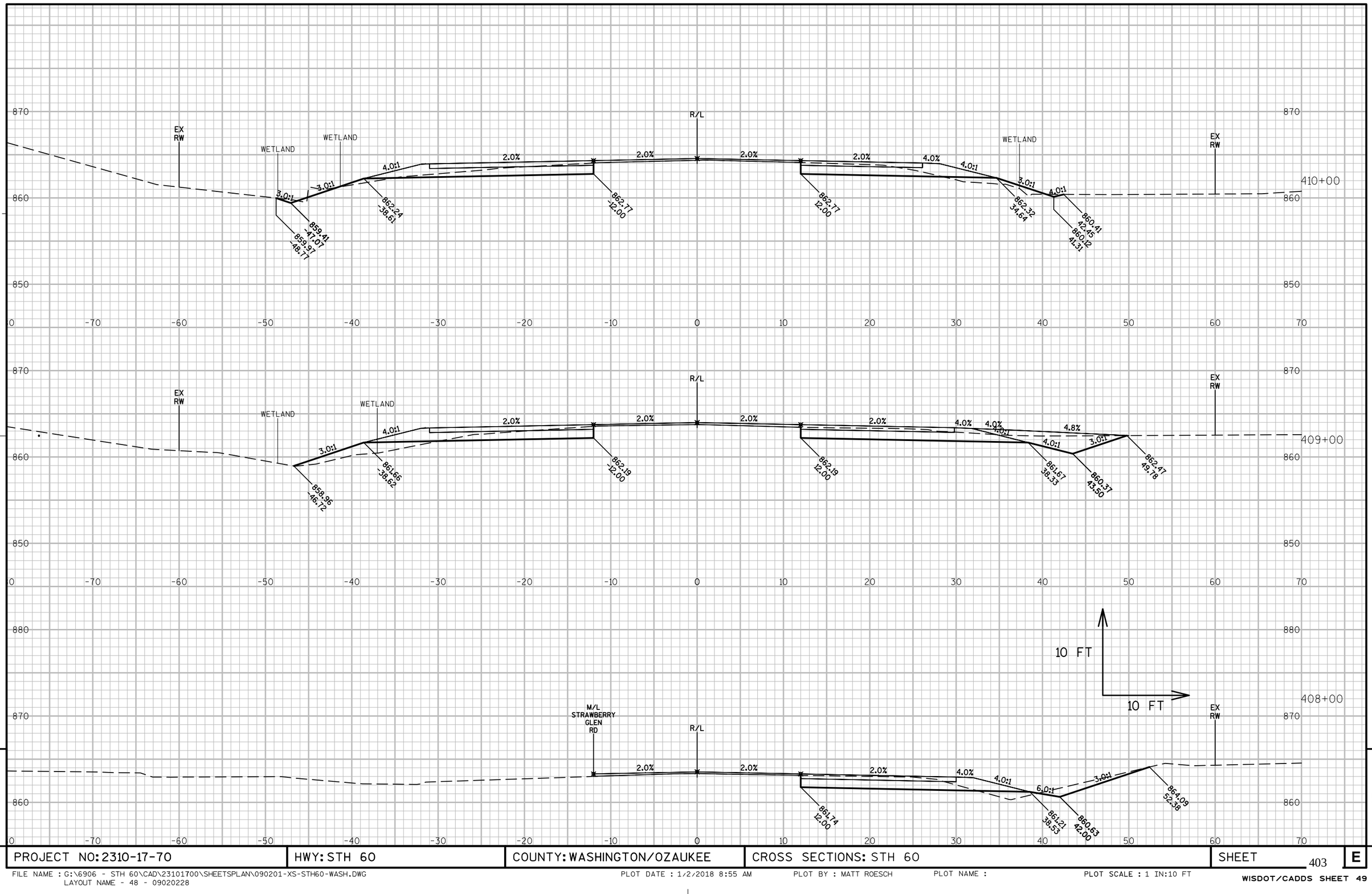
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 402	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 47 - 09020227

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

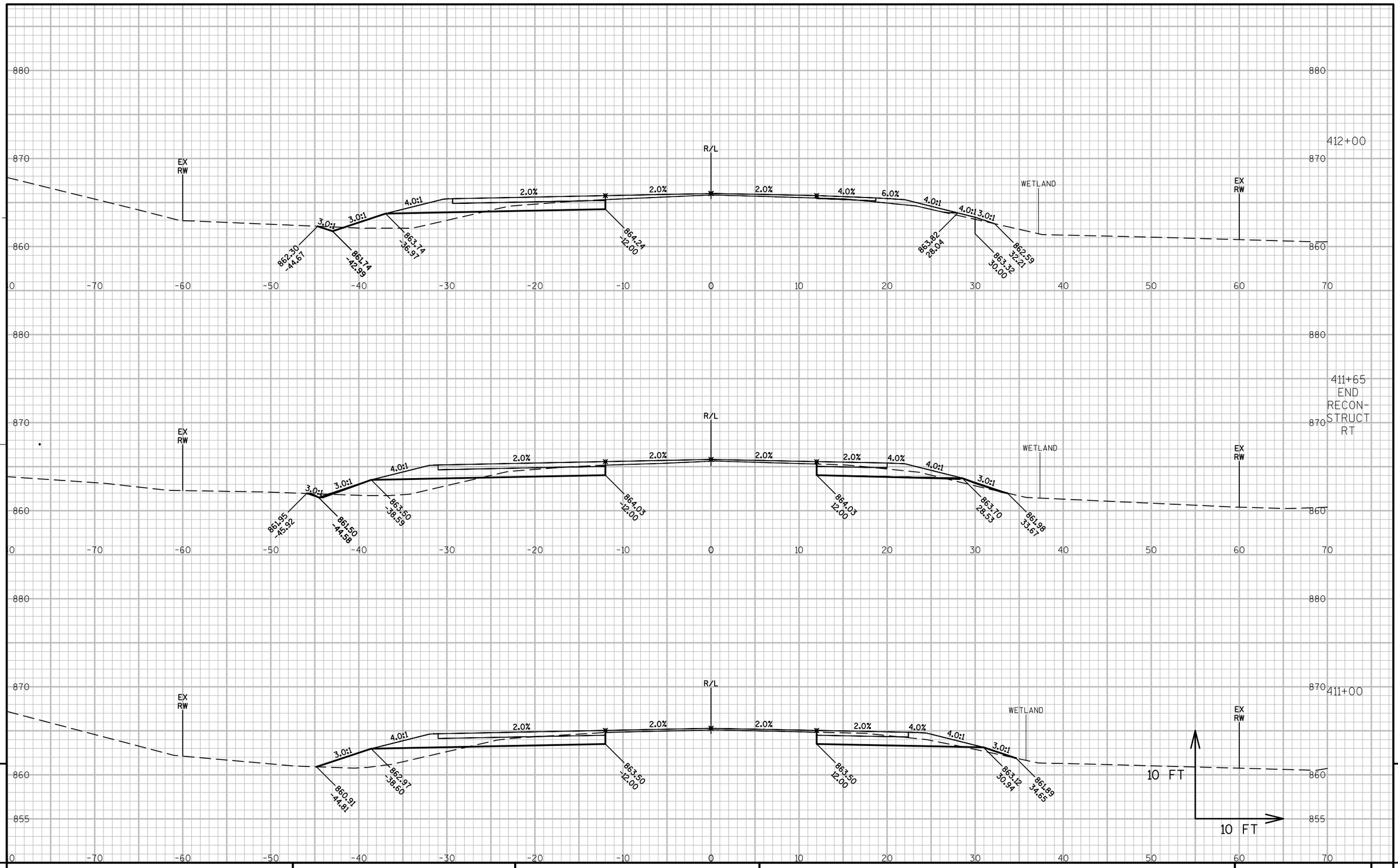


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 403	E

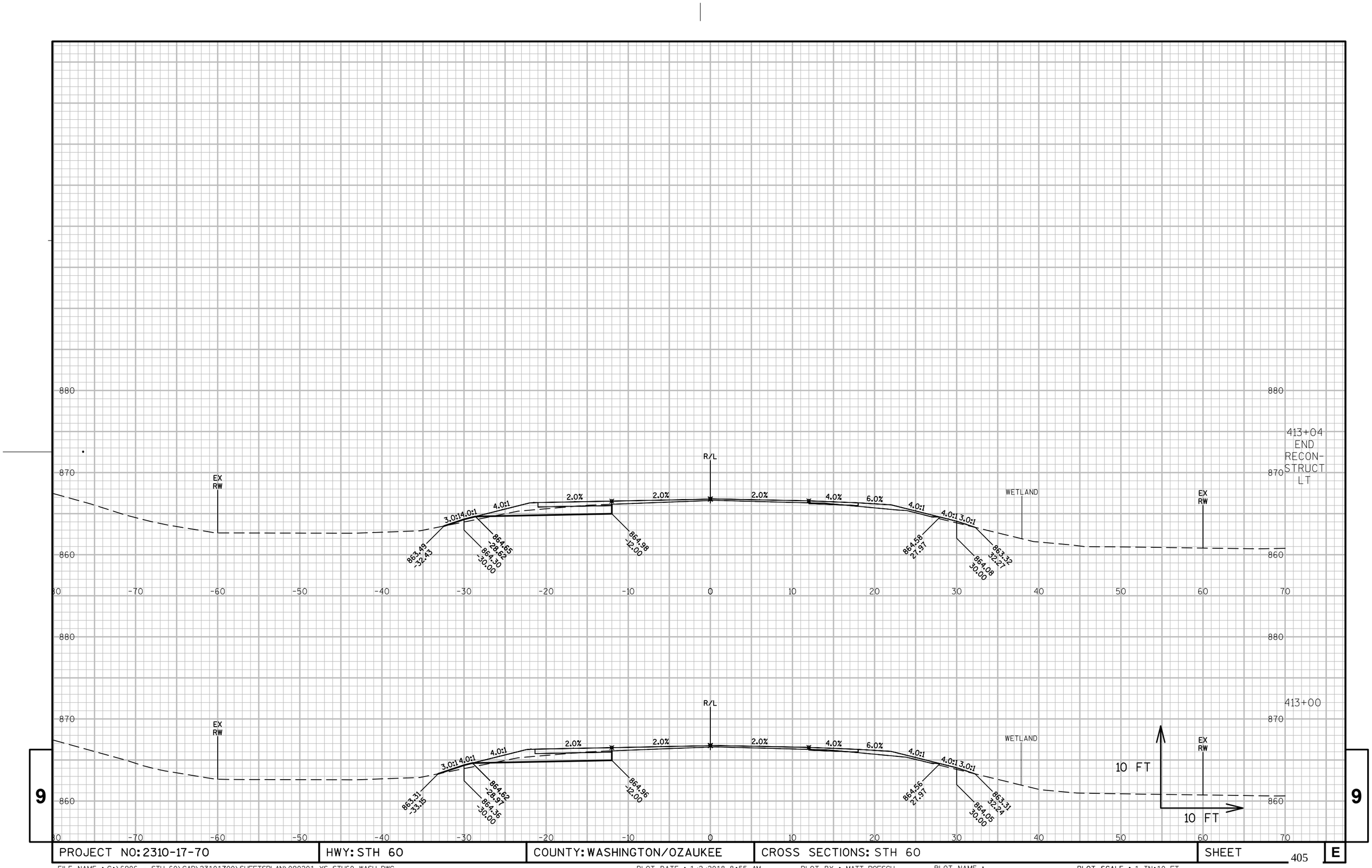
FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 48 - 09020228

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 404	E



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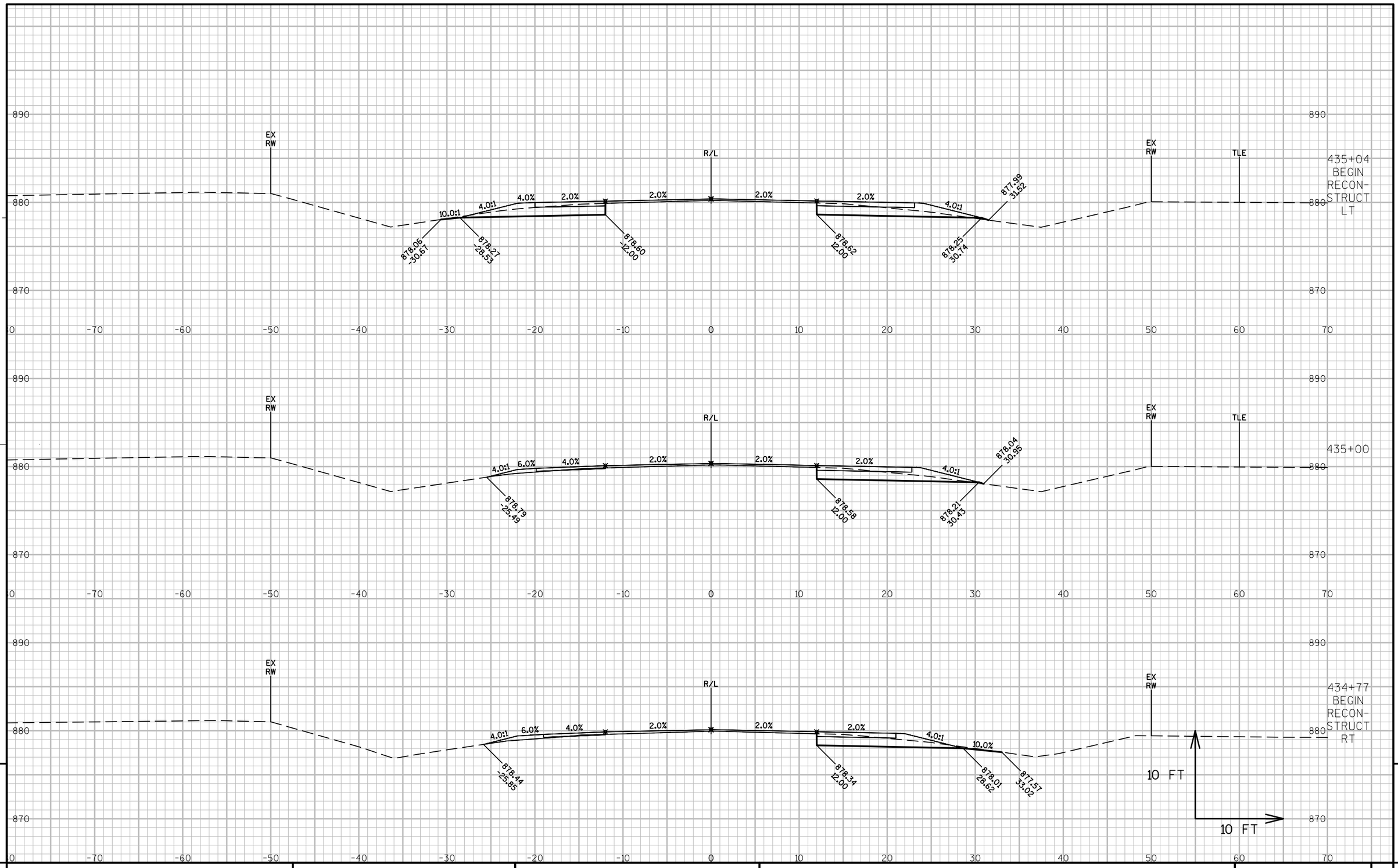
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 405	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-WASH.DWG
LAYOUT NAME - 50 - 09020230

PLOT DATE : 1/2/2018 8:55 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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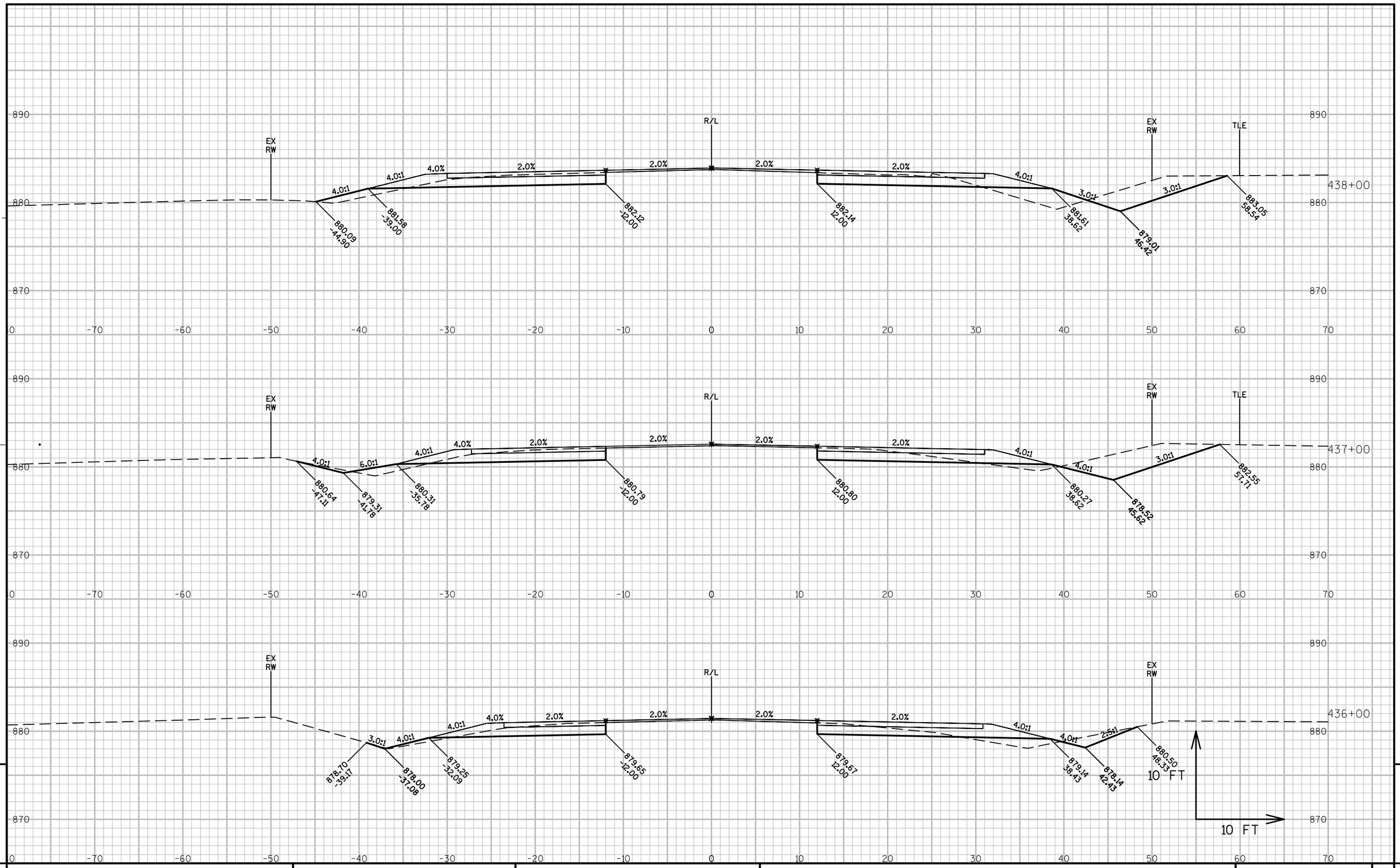
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 406	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-OZKE.DWG
LAYOUT NAME - 092011

PLOT DATE : 2/7/2018 4:06 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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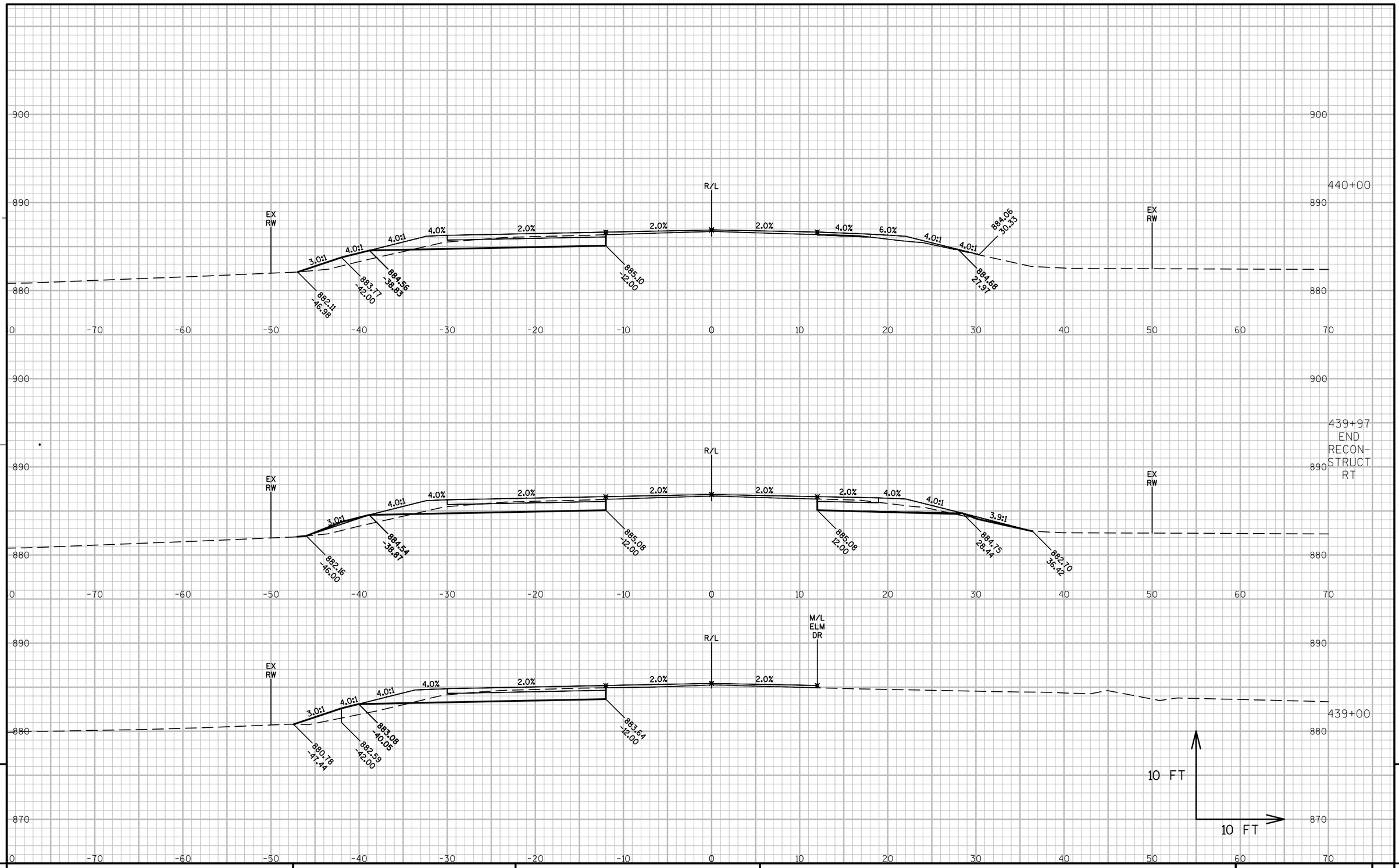
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 407	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-OZKE.DWG
LAYOUT NAME - 092012

PLOT DATE : 2/7/2018 3:08 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

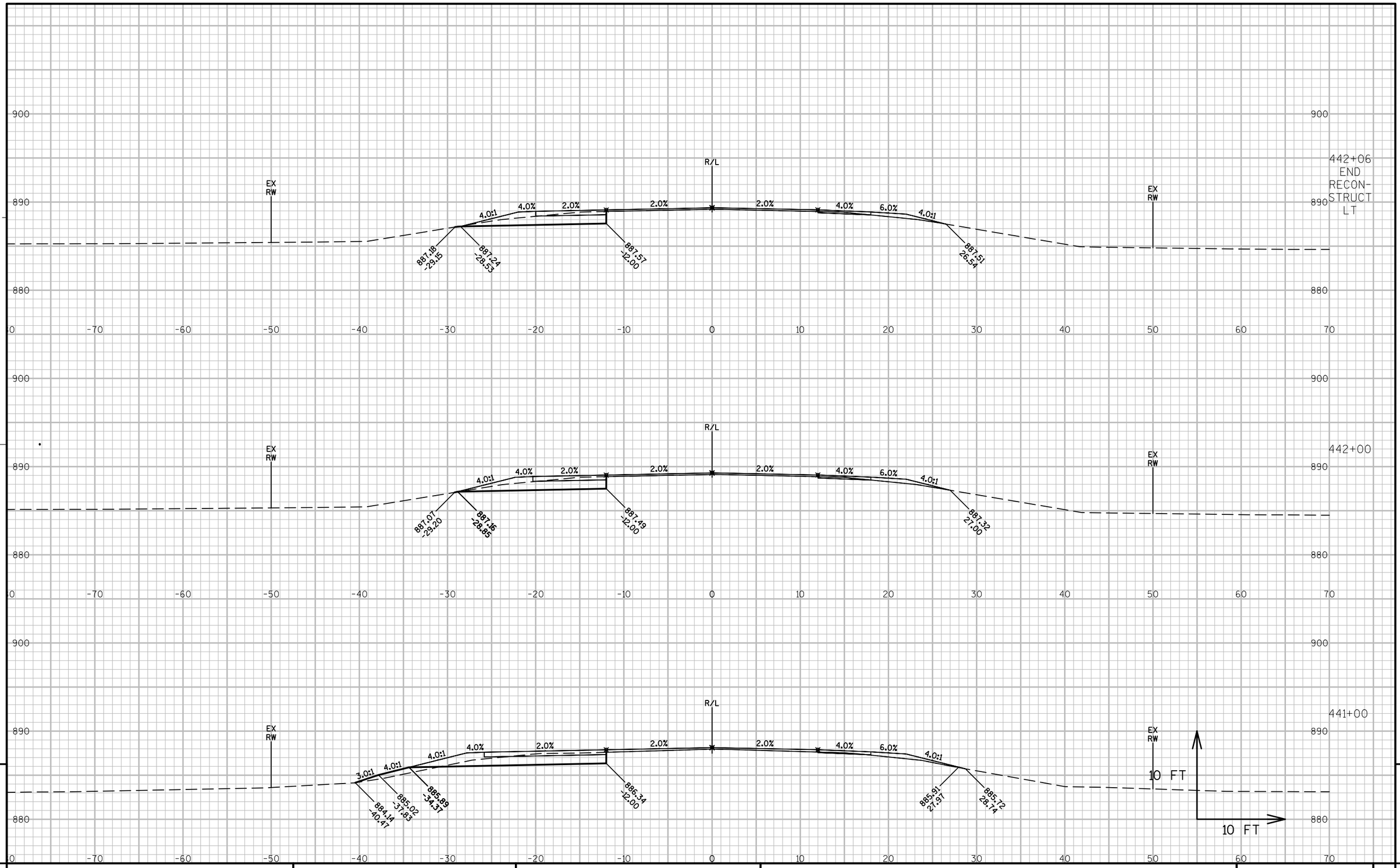


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 408	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-OZKE.DWG
LAYOUT NAME - 092013

PLOT DATE : 2/7/2018 3:08 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49

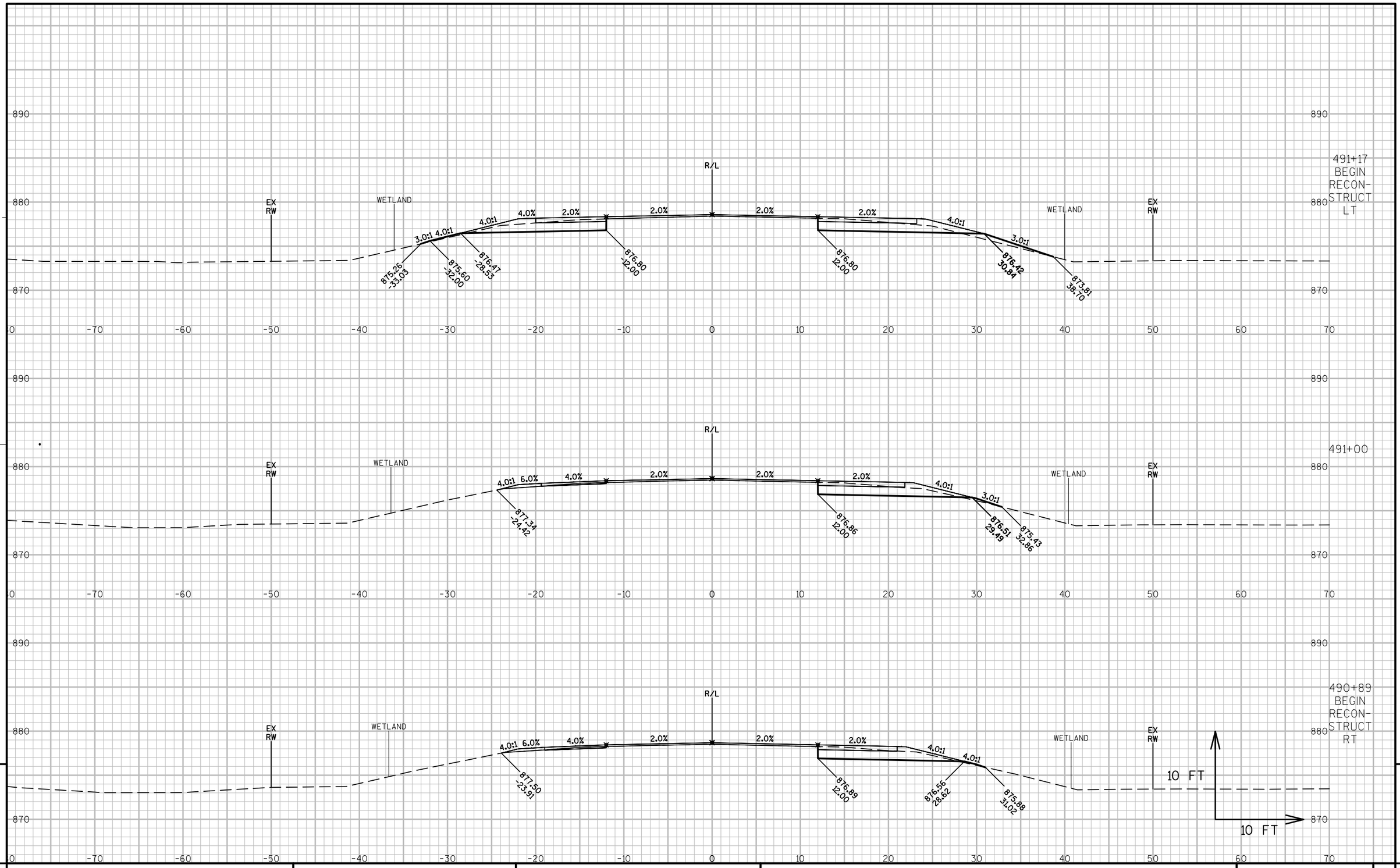


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 409	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-OZKE.DWG
LAYOUT NAME - 092014

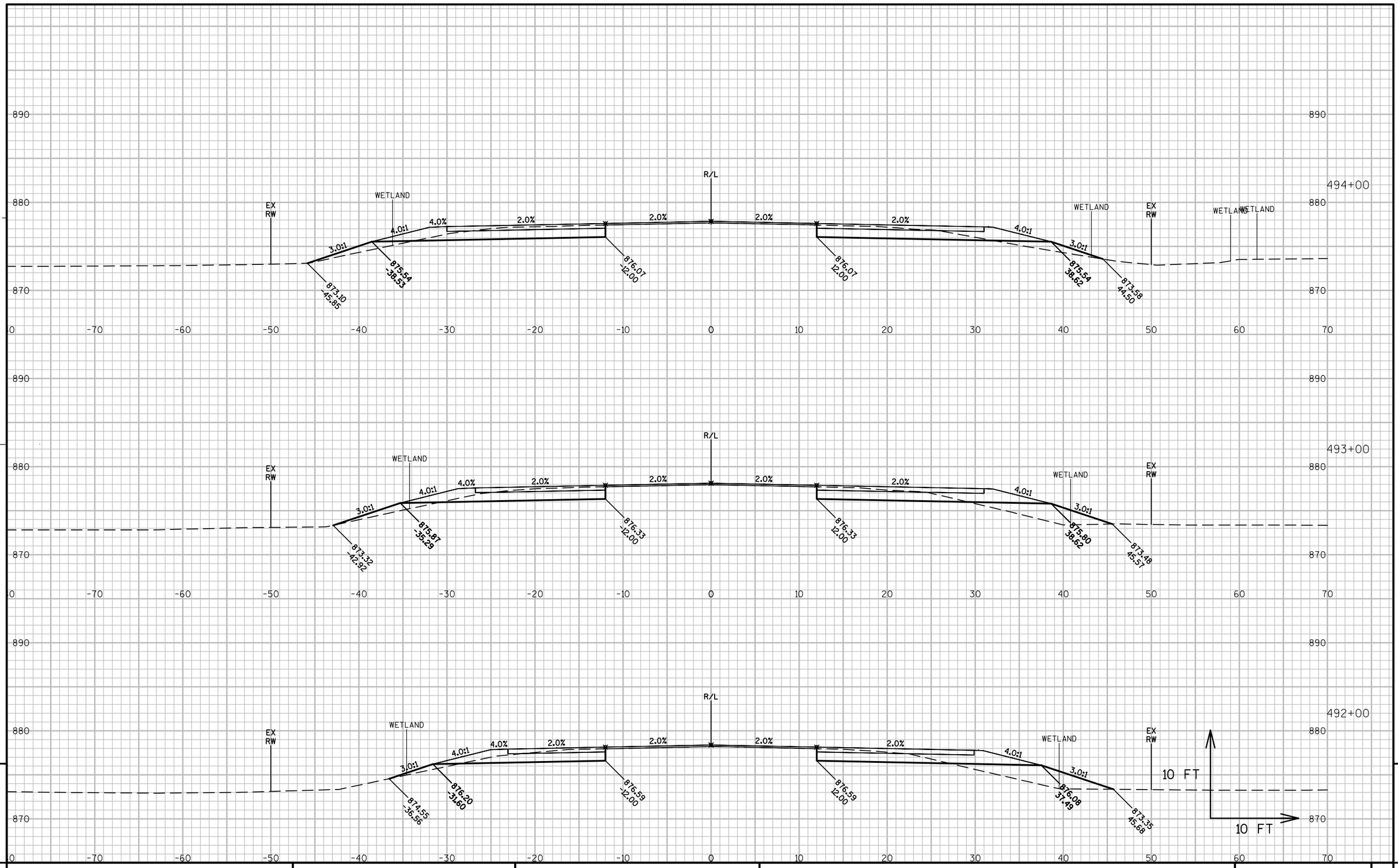
PLOT DATE : 2/7/2018 3:09 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 410	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-OZKE.DWG
LAYOUT NAME - 092015
PLOT DATE : 2/7/2018 3:10 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1
WISDOT/CADDS SHEET 49

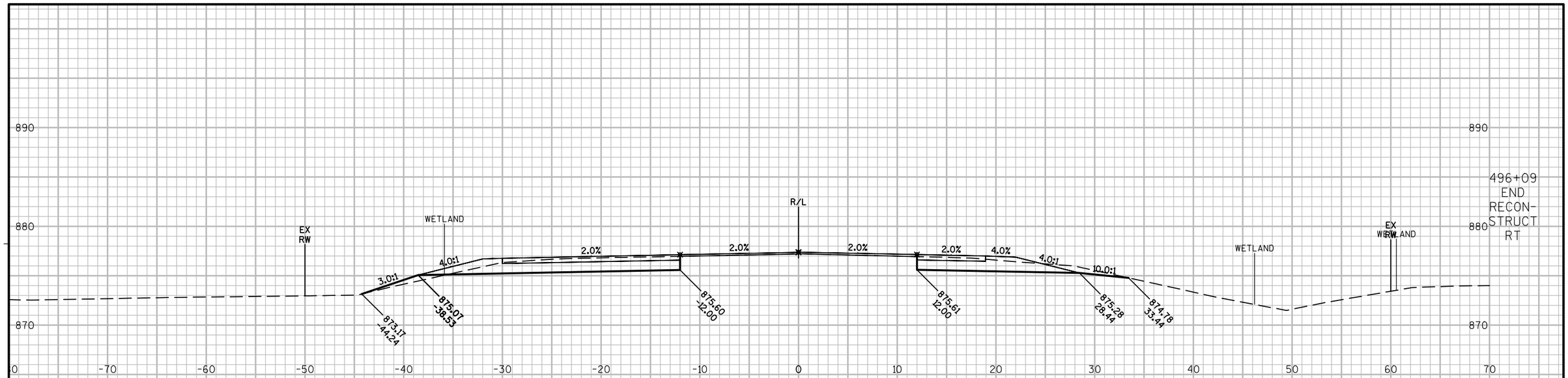


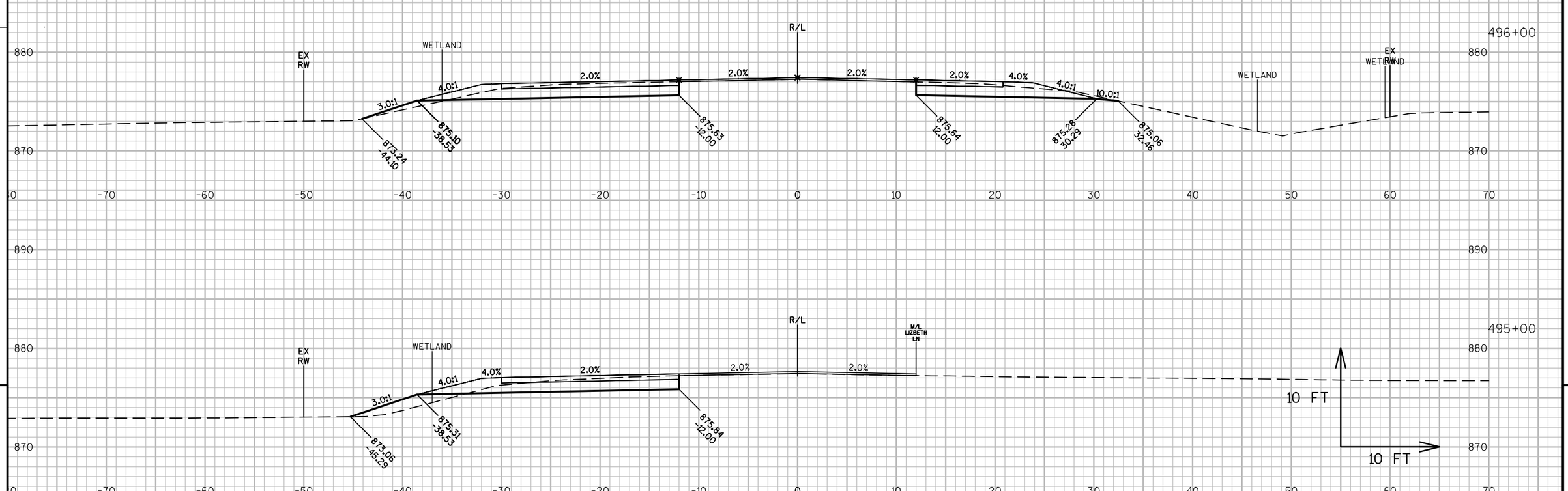
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 411	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-OZKE.DWG
LAYOUT NAME - 092016

PLOT DATE : 2/12/2018 10:08 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49





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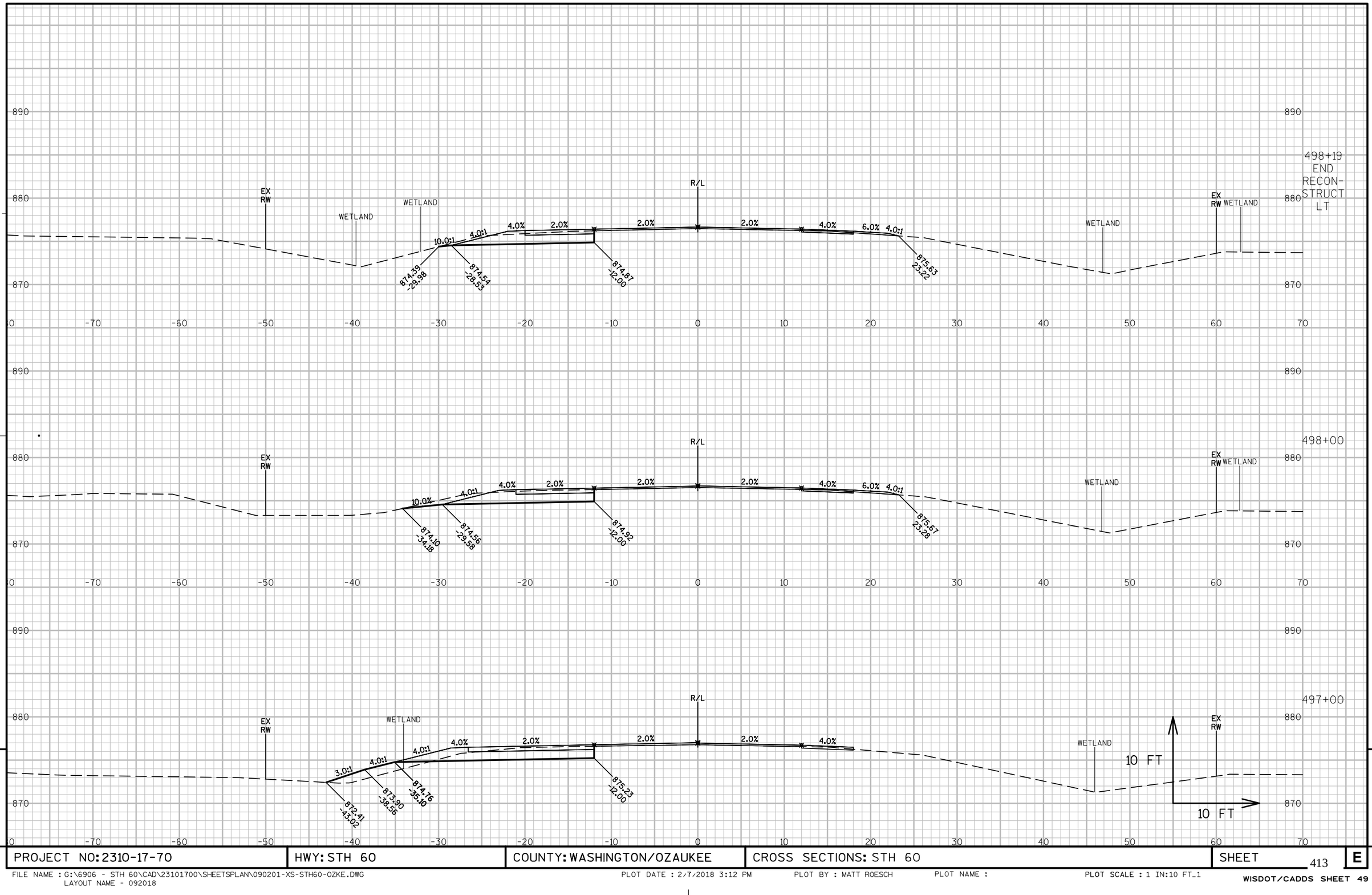
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 412	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-OZKE.DWG
LAYOUT NAME - 092017

PLOT DATE : 2/12/2018 10:09 AM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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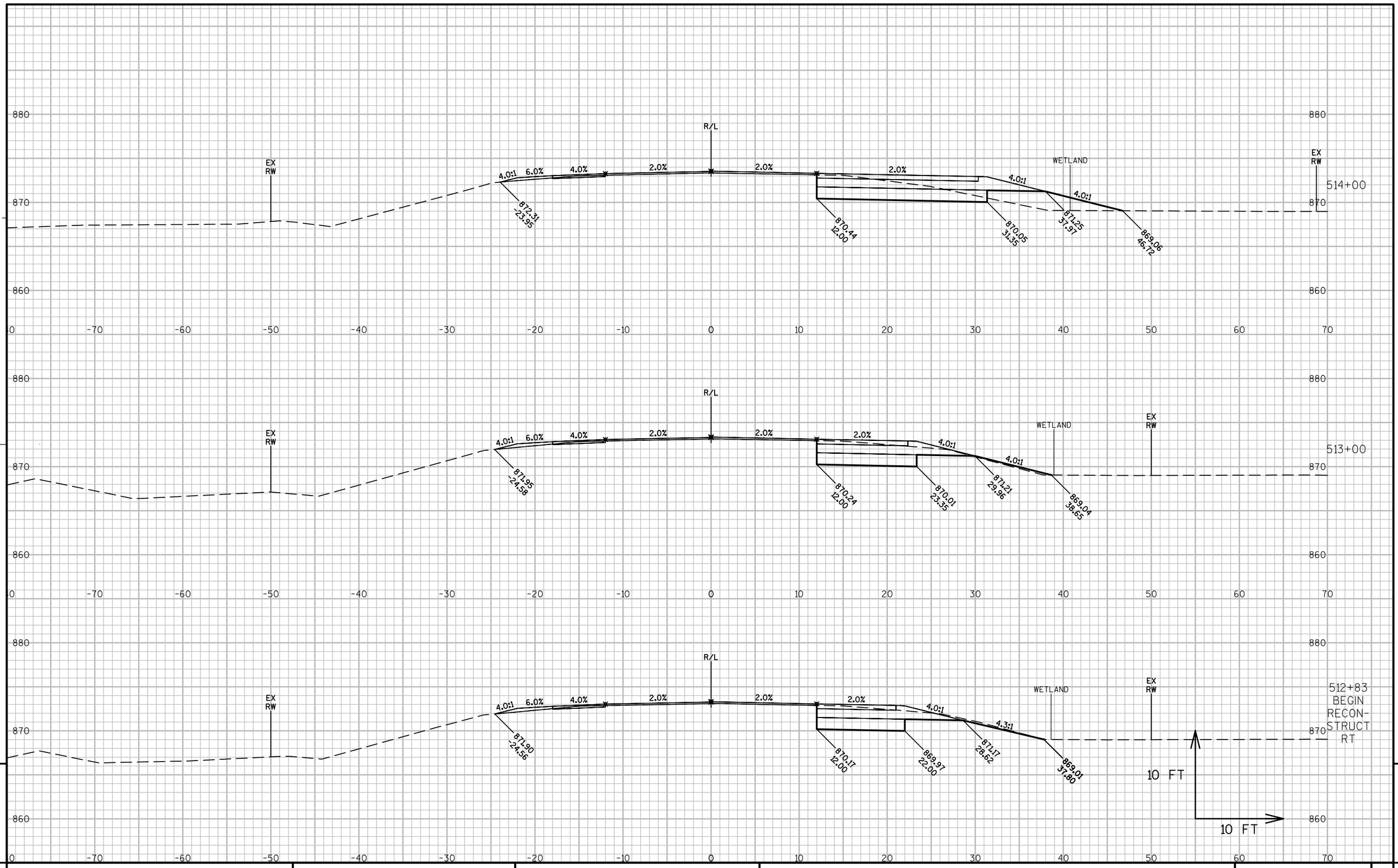
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 413	E

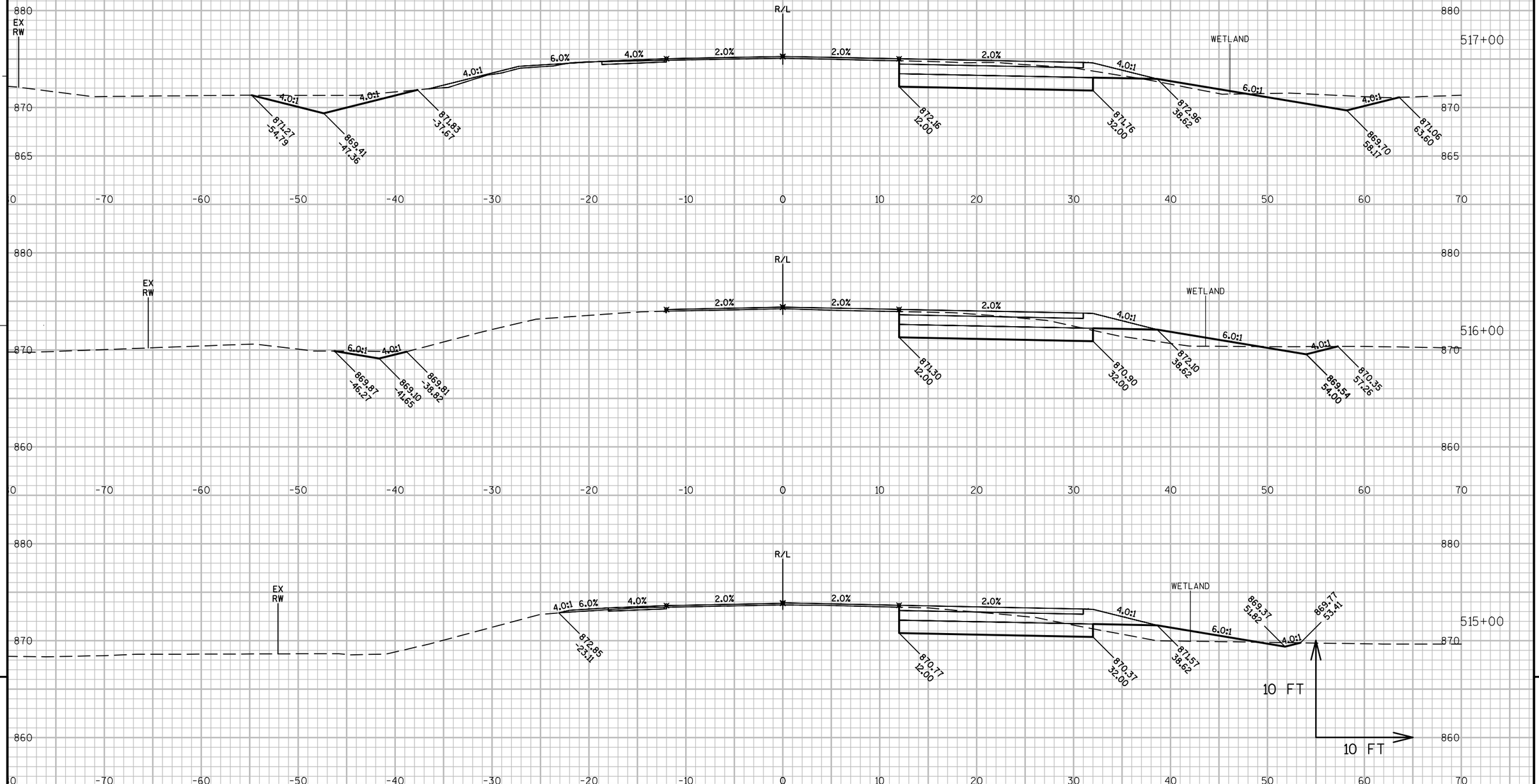
FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-OZKE.DWG
LAYOUT NAME - 092018

PLOT DATE : 2/7/2018 3:12 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 414	E



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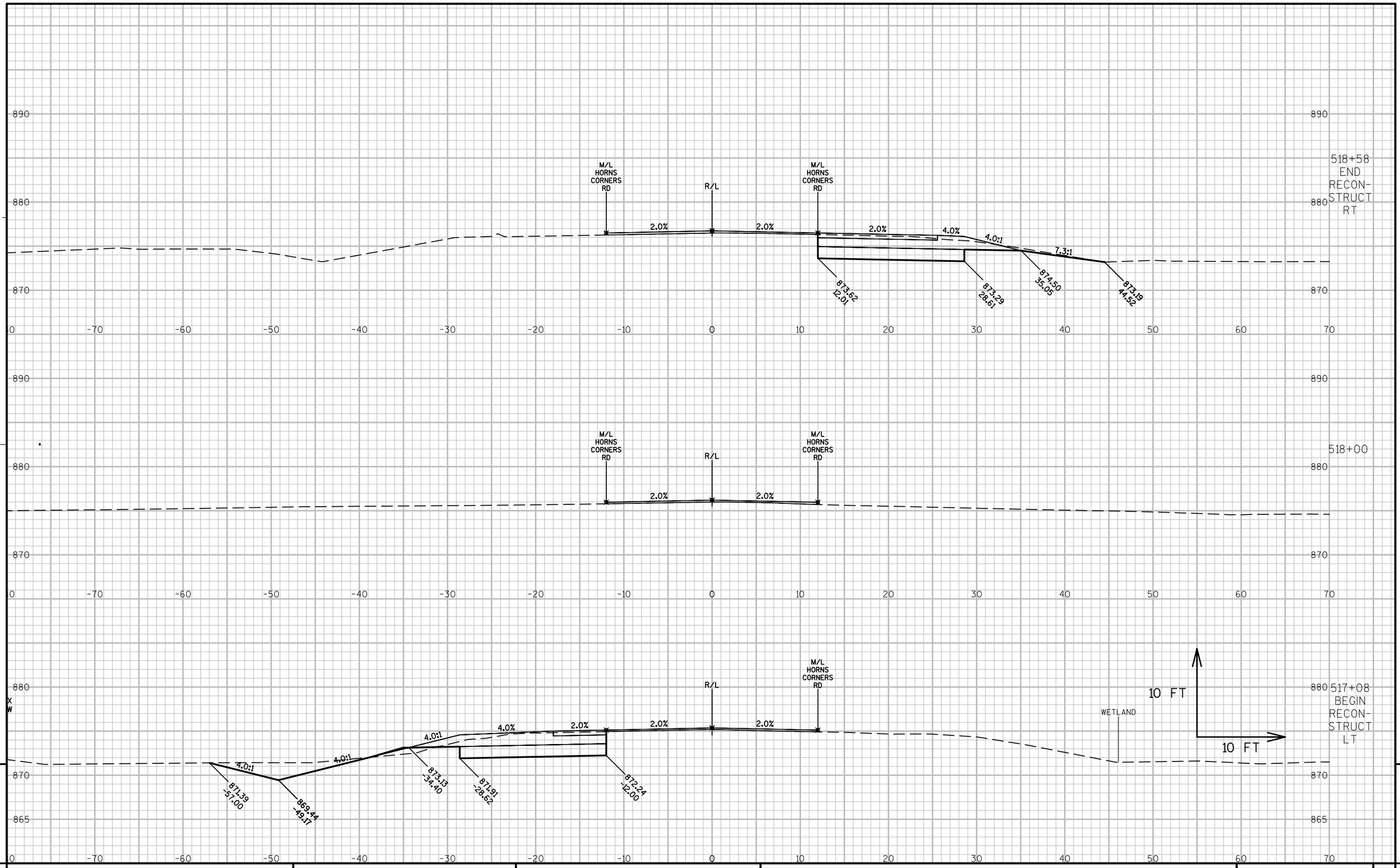
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 415	E

9

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-OZKE.DWG
LAYOUT NAME - 0920110

PLOT DATE : 4/25/2018 4:18 PM PLOT BY : KEVIN WEIGHNER PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49

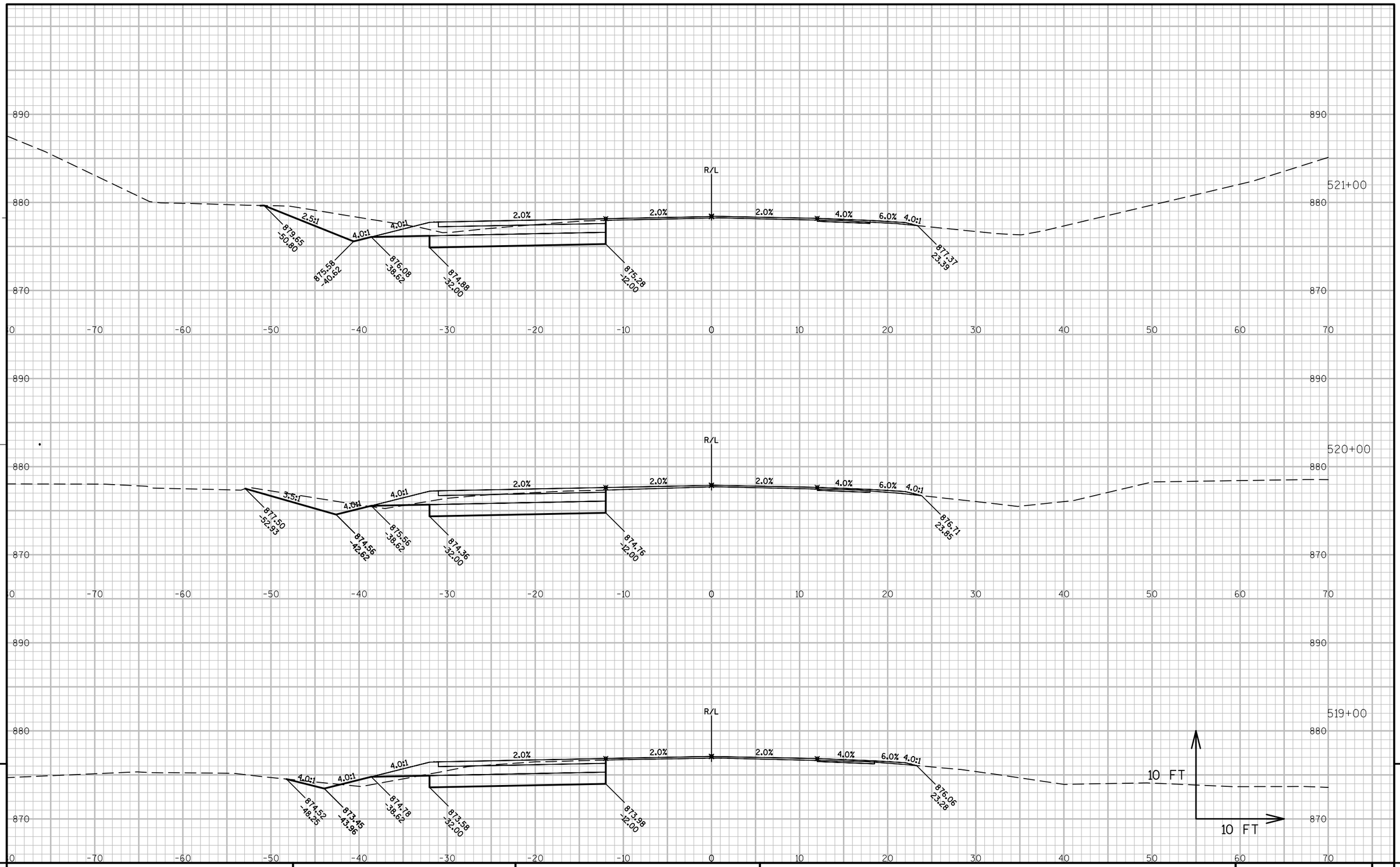


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 416	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-OZKE.DWG
LAYOUT NAME - 0920111

PLOT DATE : 2/7/2018 3:14 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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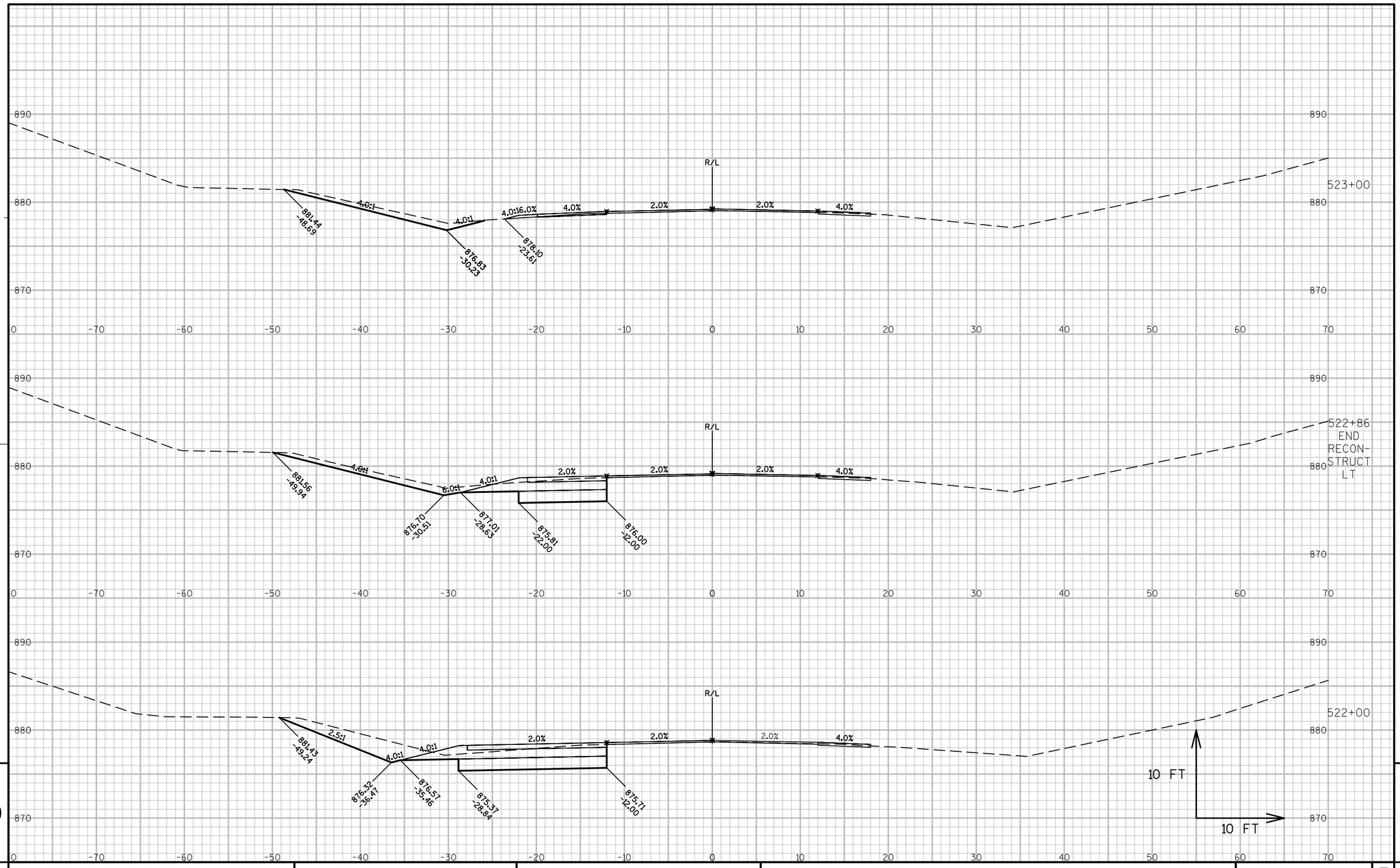
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 417	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-OZKE.DWG
LAYOUT NAME - 0920112

PLOT DATE : 2/7/2018 3:15 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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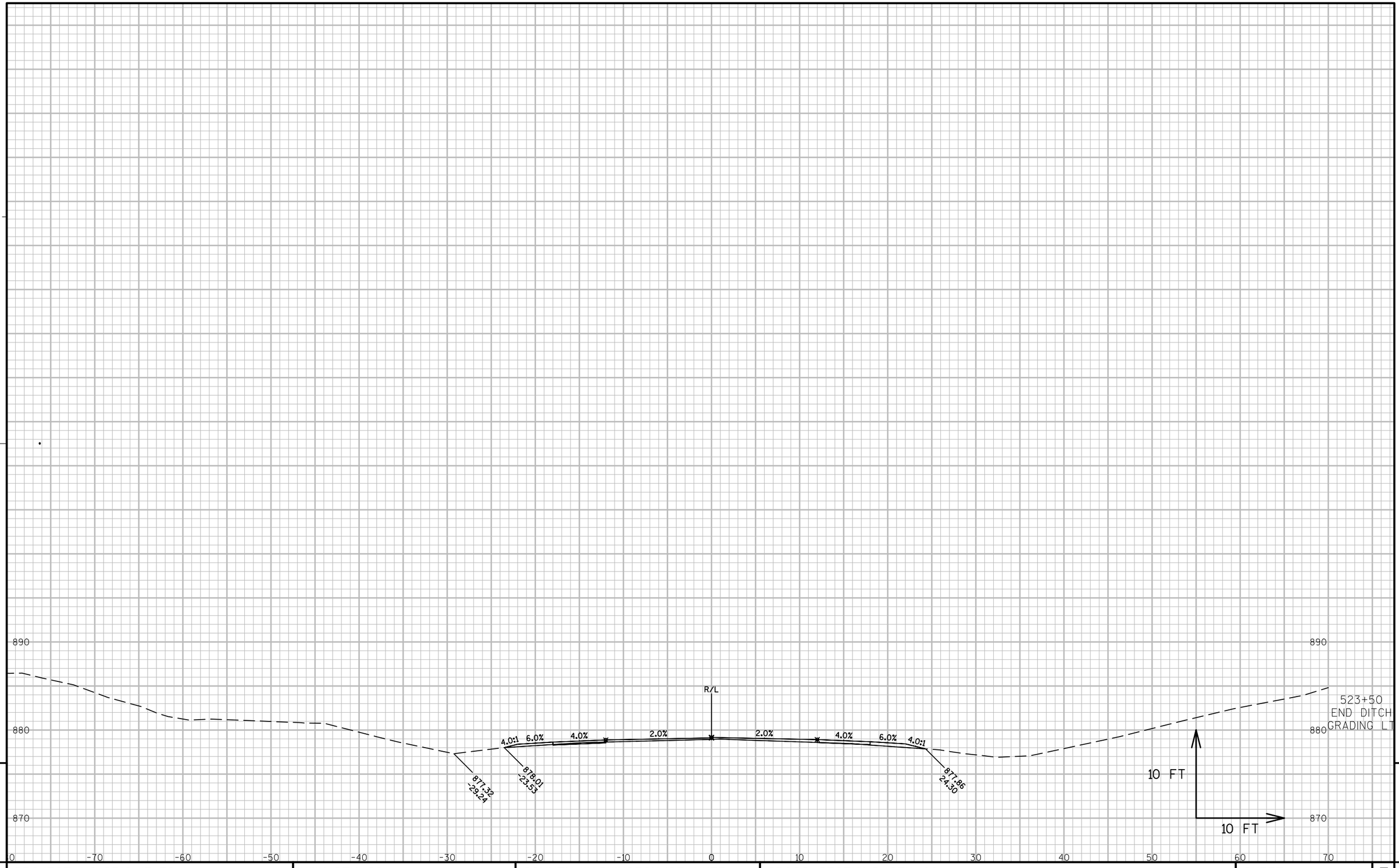
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 418	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-OZKE.DWG
LAYOUT NAME - 13 - 0920113

PLOT DATE : 2/7/2018 4:11 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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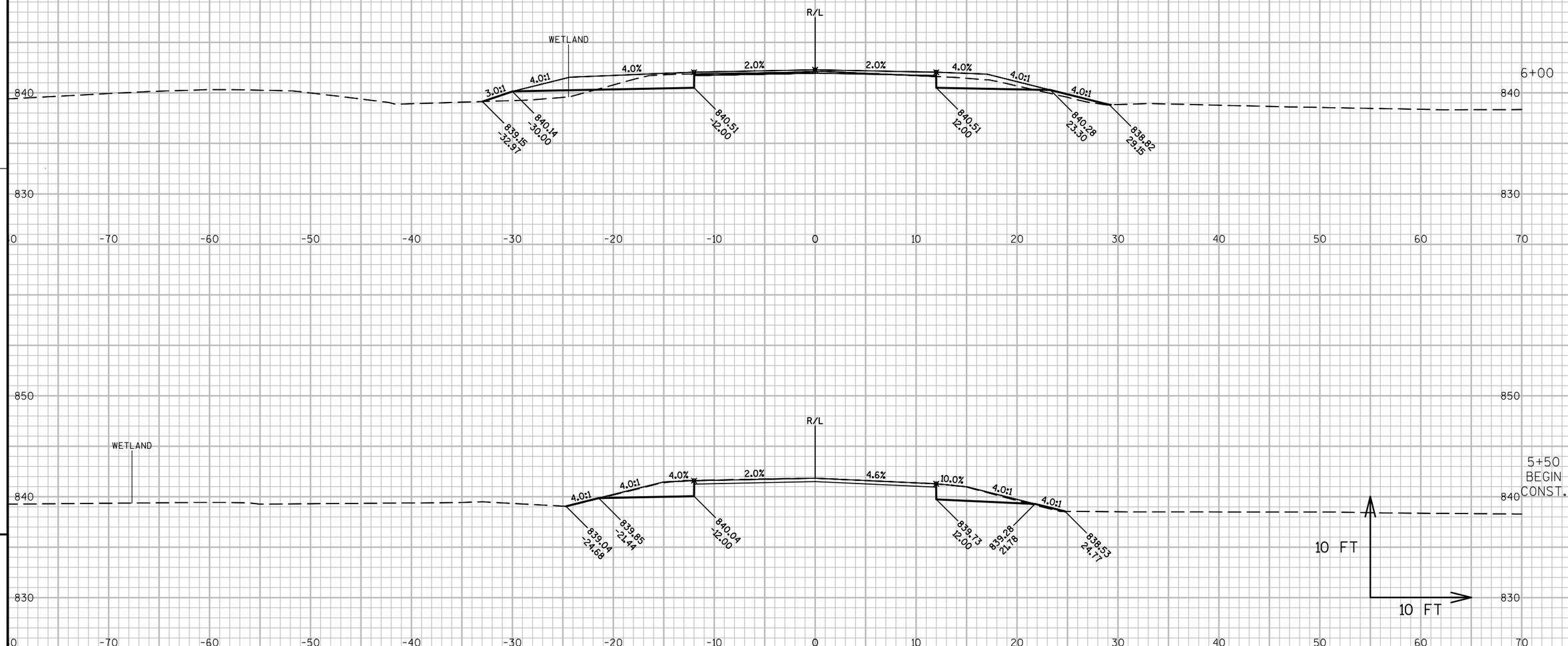
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON/OZAUKEE	CROSS SECTIONS: STH 60	SHEET 419	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-STH60-OZKE.DWG
LAYOUT NAME - 14 - 0920114

PLOT DATE : 2/7/2018 3:16 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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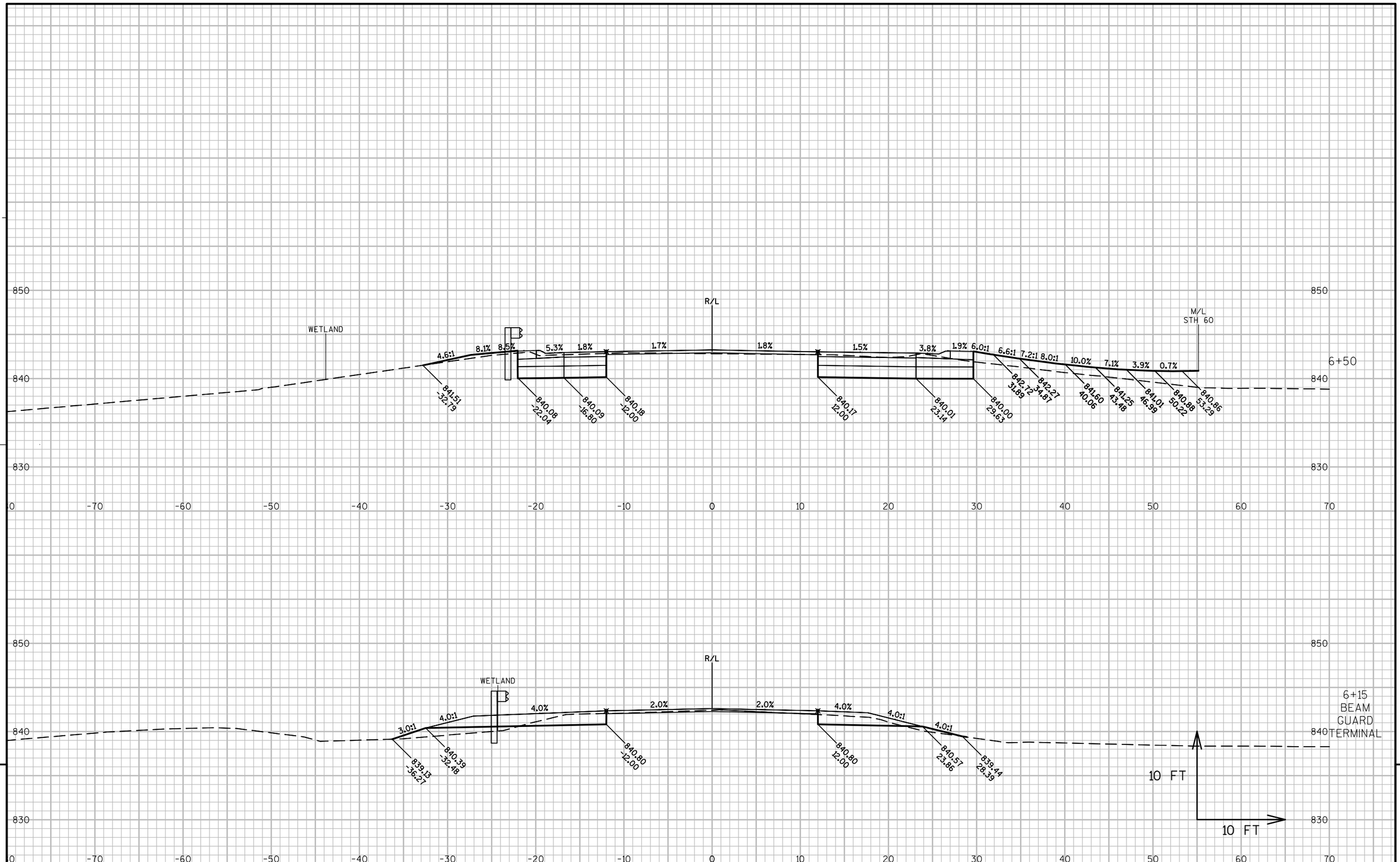
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: MAPLE RD	SHEET 420	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - MAPLE (1)

PLOT DATE : 4/26/2018 1:37 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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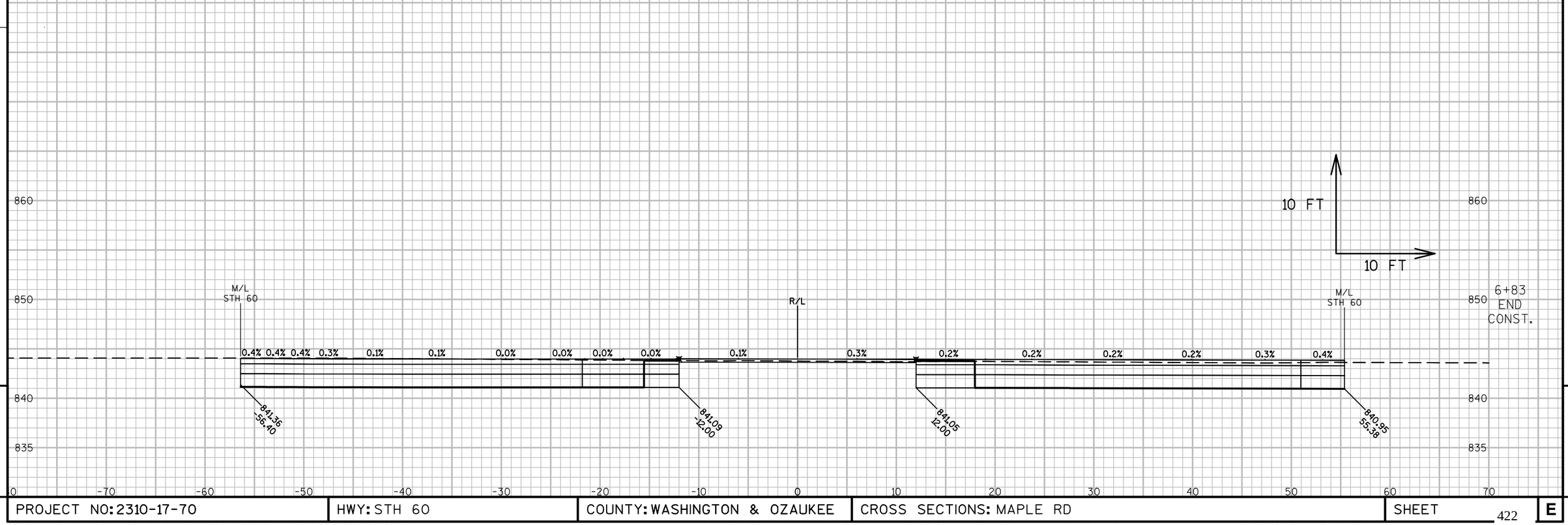
9

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: MAPLE RD	SHEET 421	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - MAPLE (2)

PLOT DATE : 4/26/2018 1:41 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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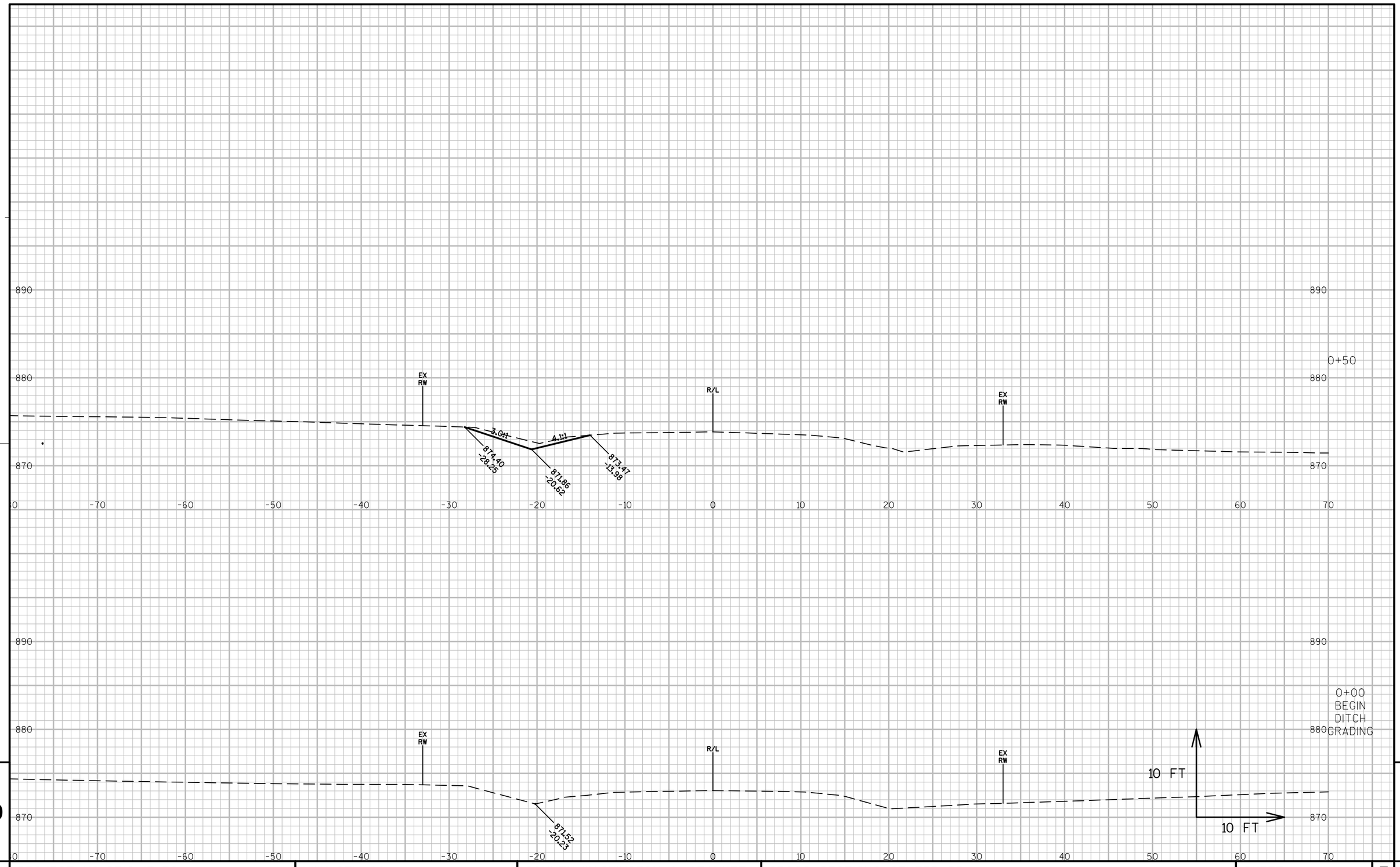
9

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: MAPLE RD	SHEET 422	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - MAPLE (3)

PLOT DATE : 4/26/2018 1:43 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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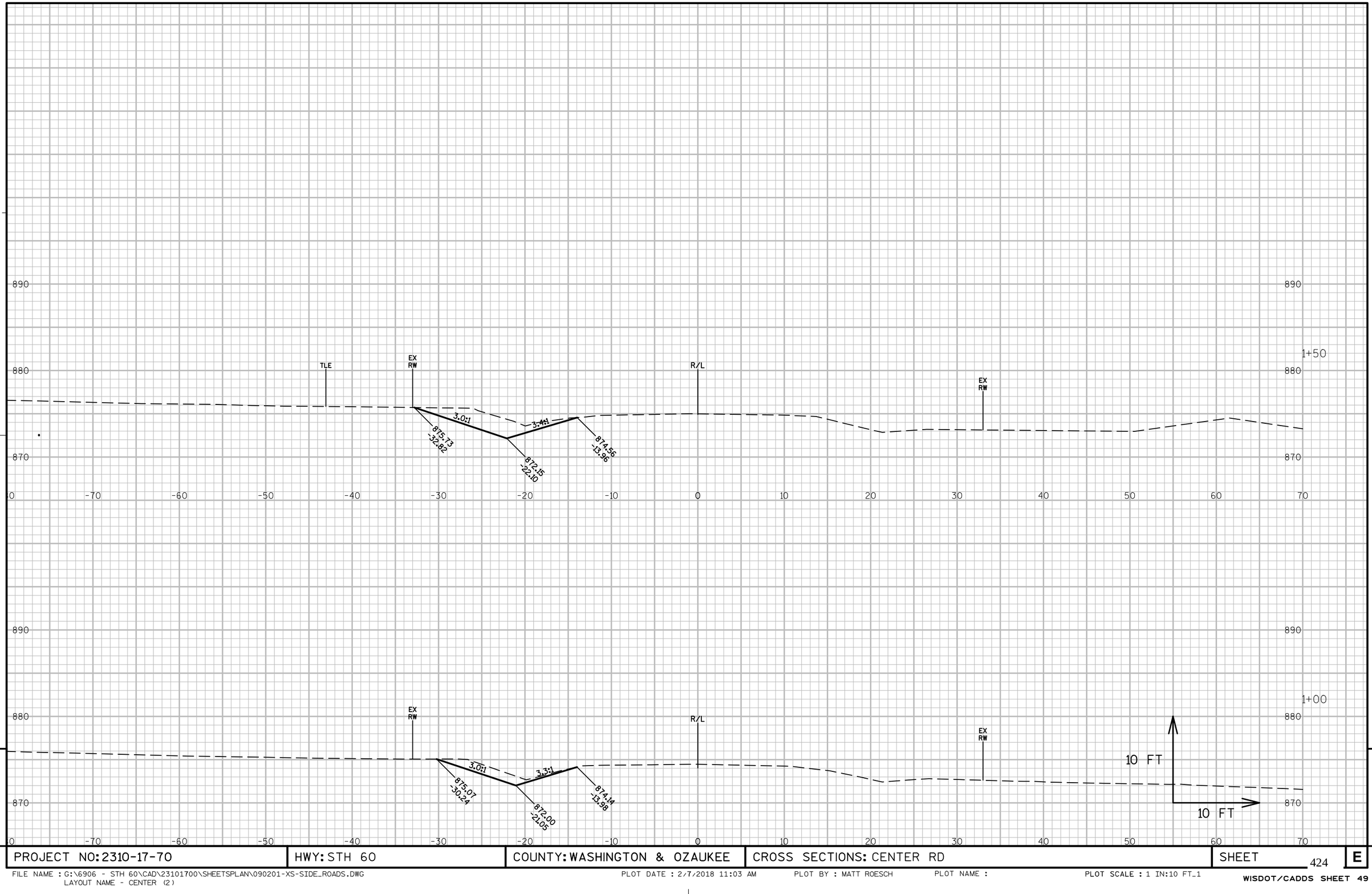
9

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: CENTER RD	SHEET 423	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - CENTER (1)

PLOT DATE : 2/7/2018 11:03 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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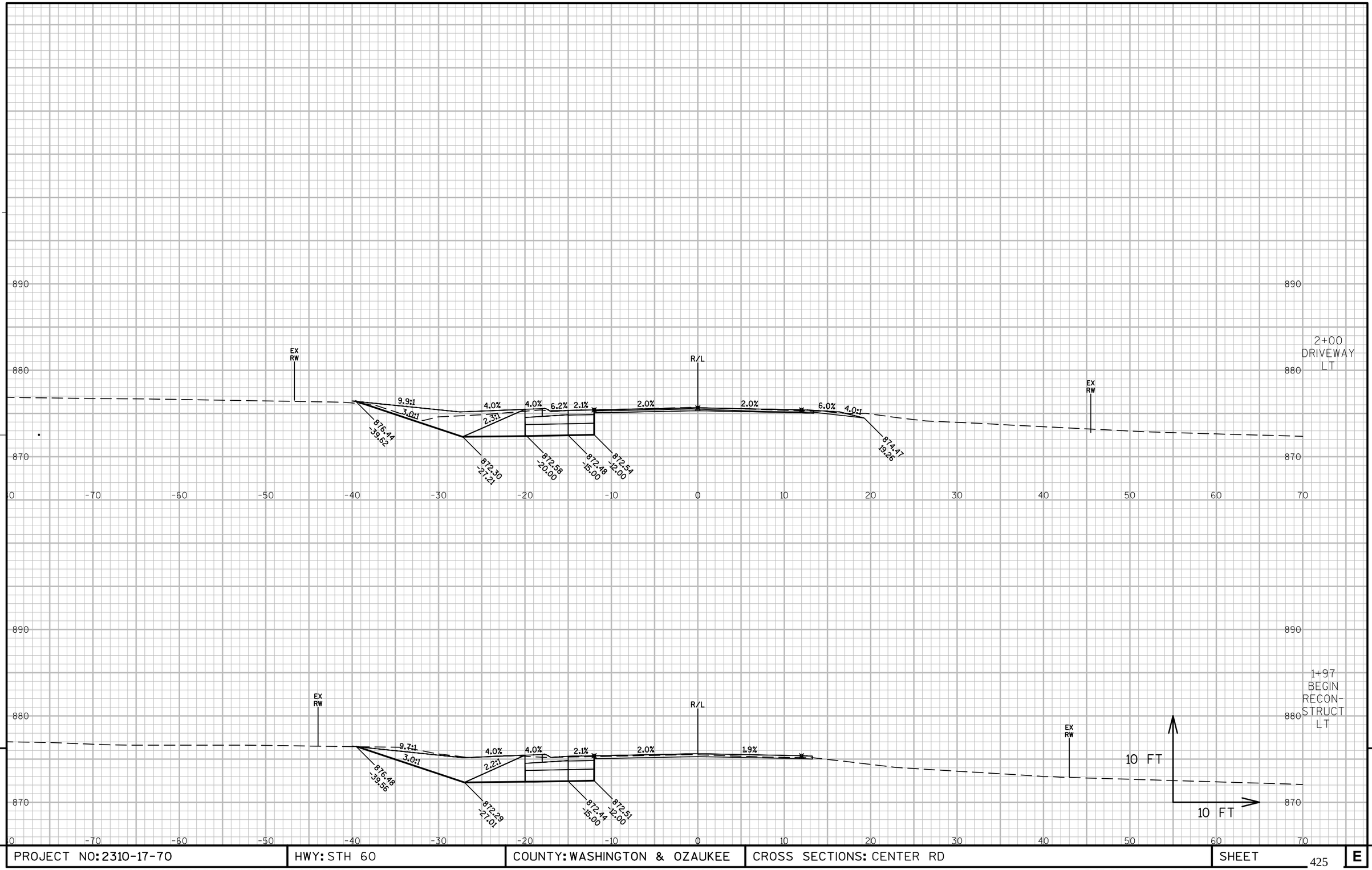
9

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: CENTER RD	SHEET 424	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - CENTER (2)

PLOT DATE : 2/7/2018 11:03 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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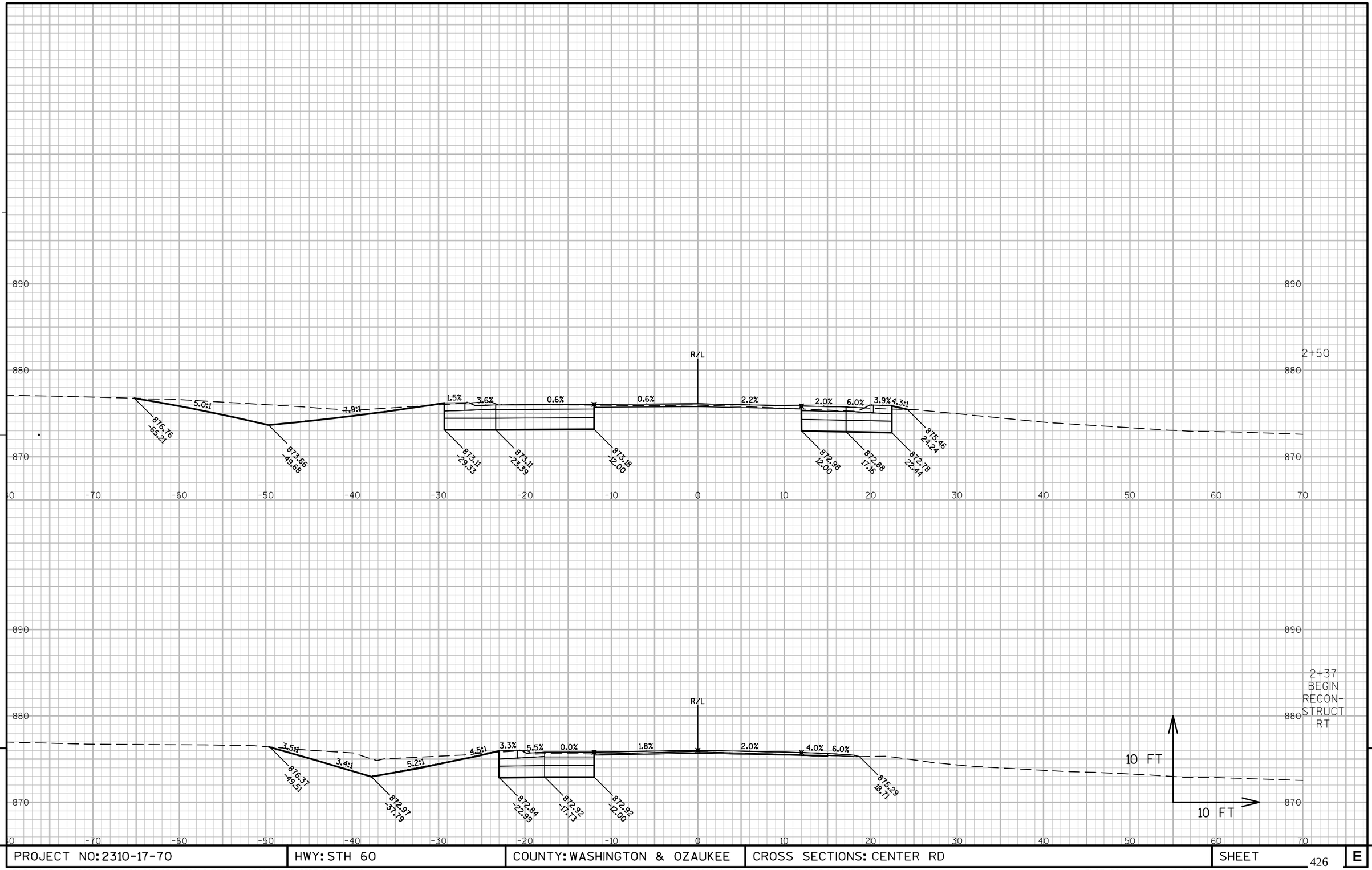
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: CENTER RD	SHEET 425	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - CENTER (3)

PLOT DATE : 2/7/2018 11:04 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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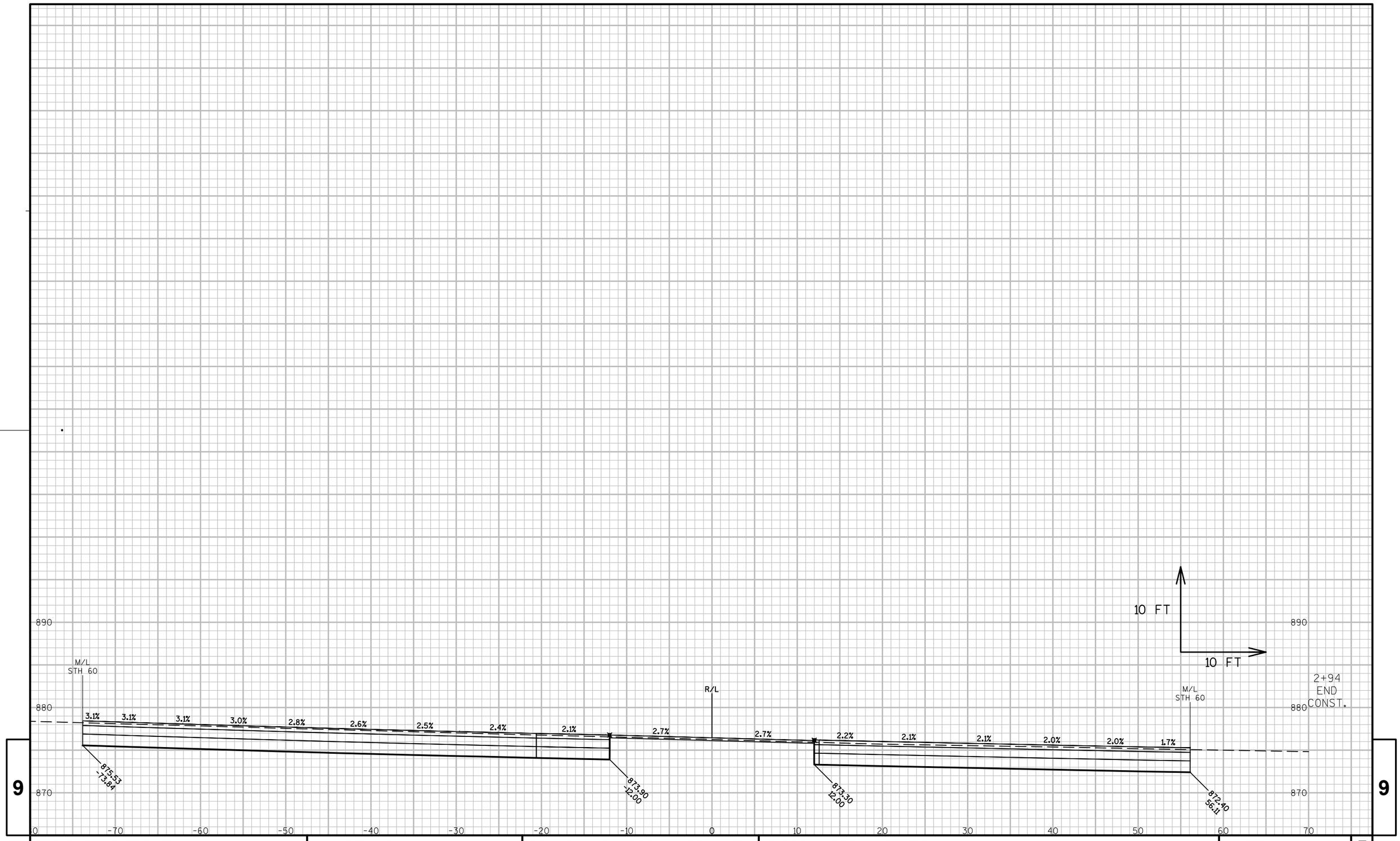
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: CENTER RD	SHEET 426	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - CENTER (4)

PLOT DATE : 2/7/2018 11:04 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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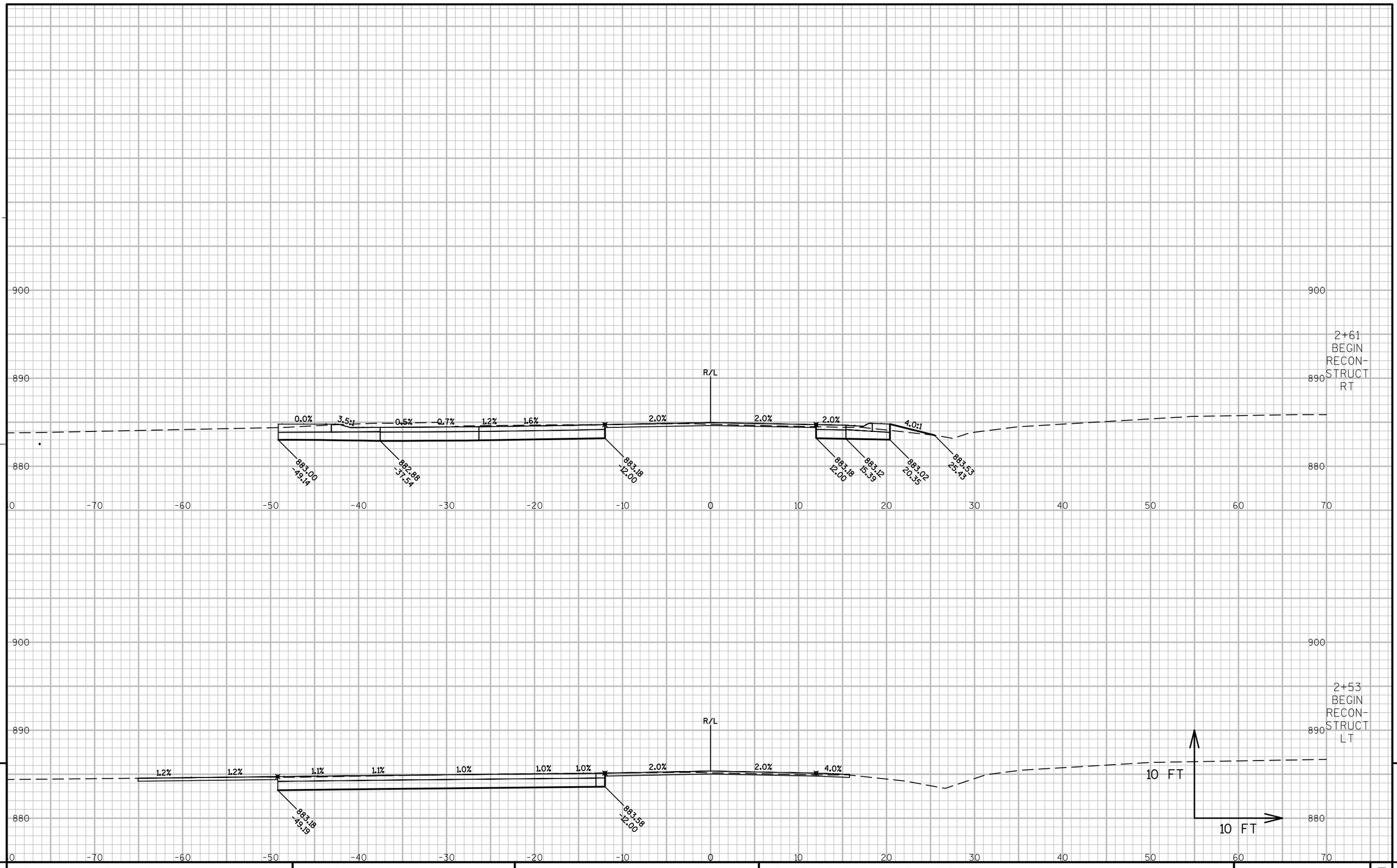
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: CENTER RD	SHEET 427	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - CENTER (5)

PLOT DATE : 2/7/2018 11:05 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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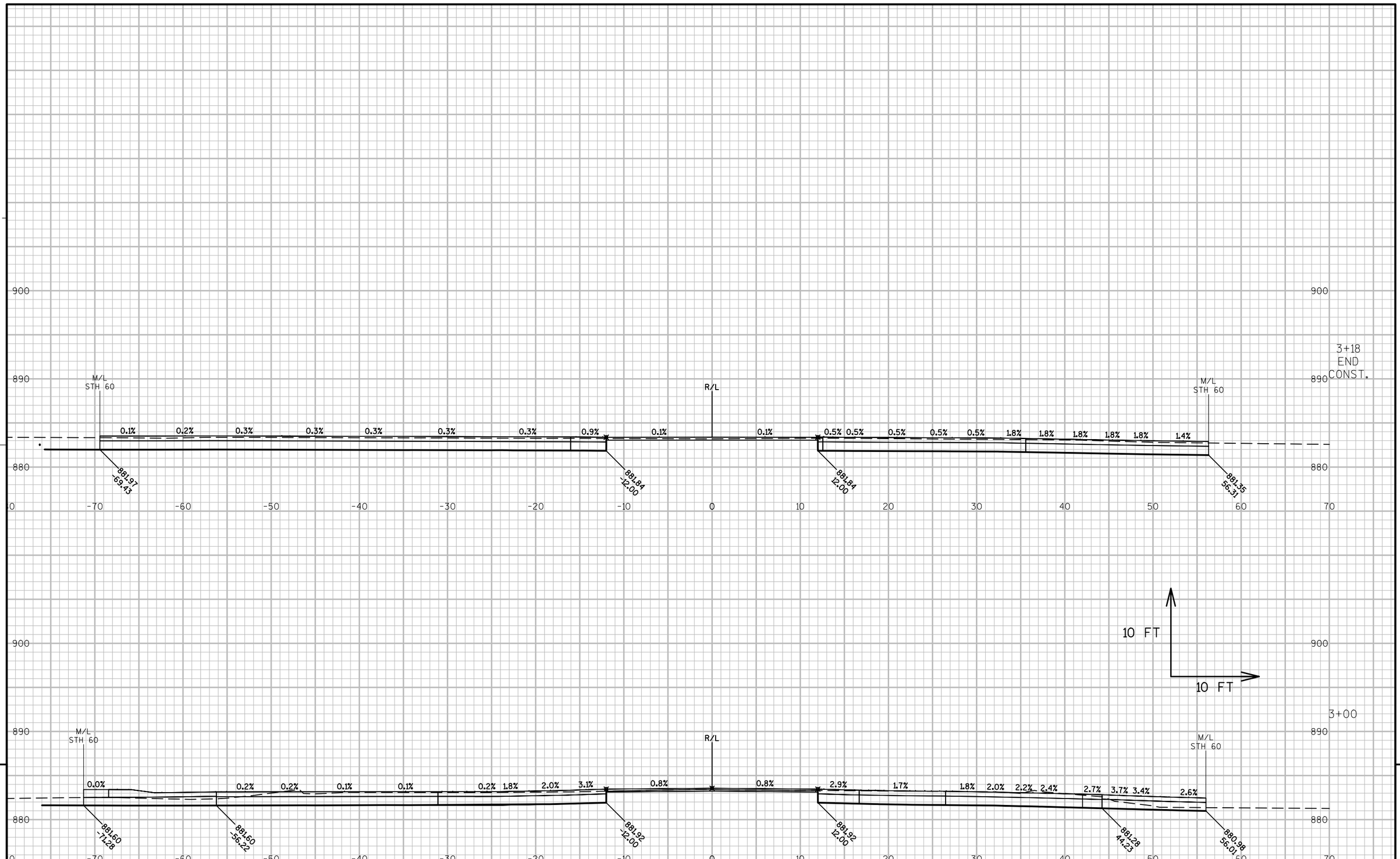
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: LUSAN DR	SHEET 428	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - LUSAN (1)

PLOT DATE : 2/7/2018 11:05 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49

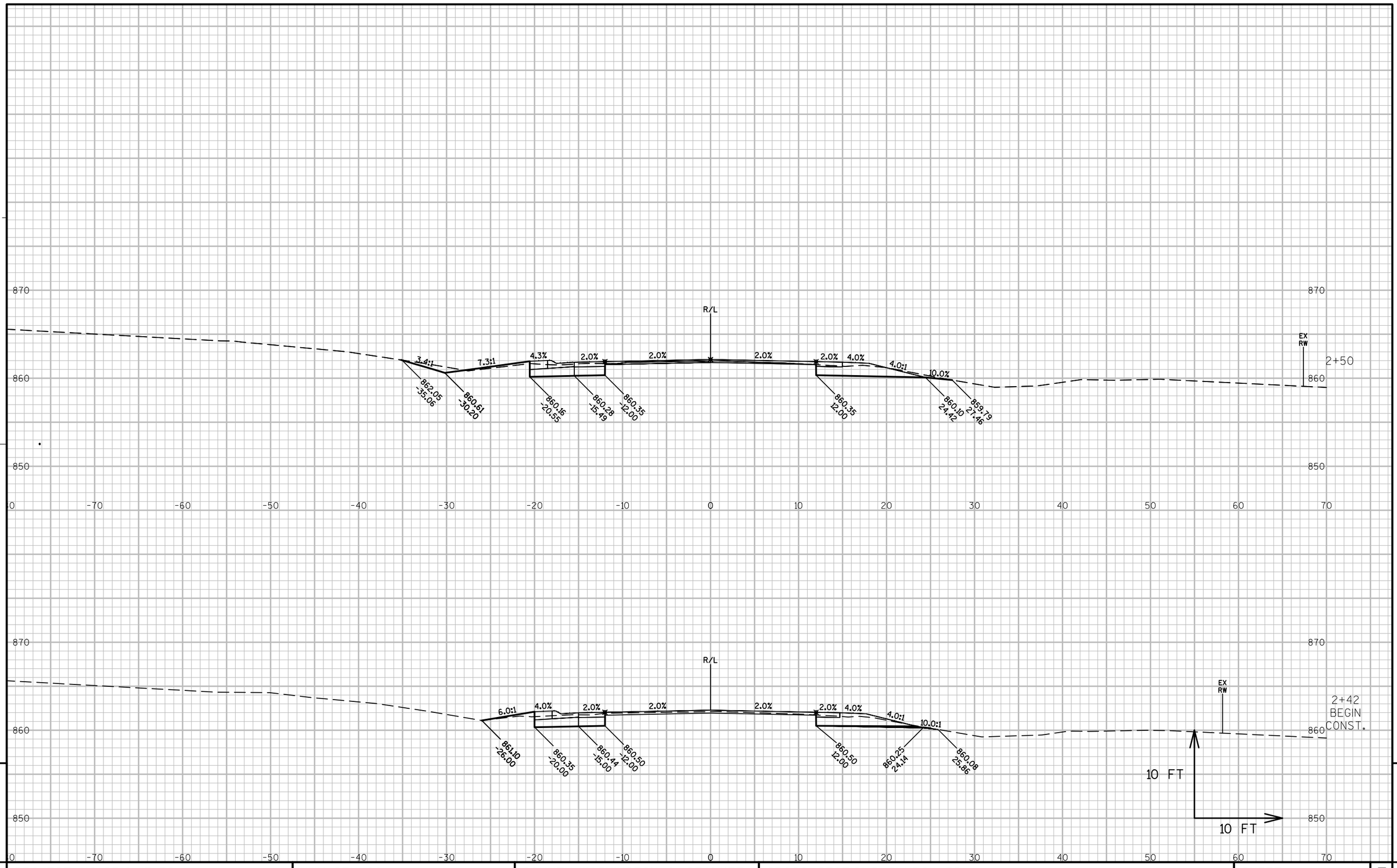


9 9

PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: LUSAN DR	SHEET 429	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - LUSAN (2)

PLOT DATE : 2/7/2018 11:06 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

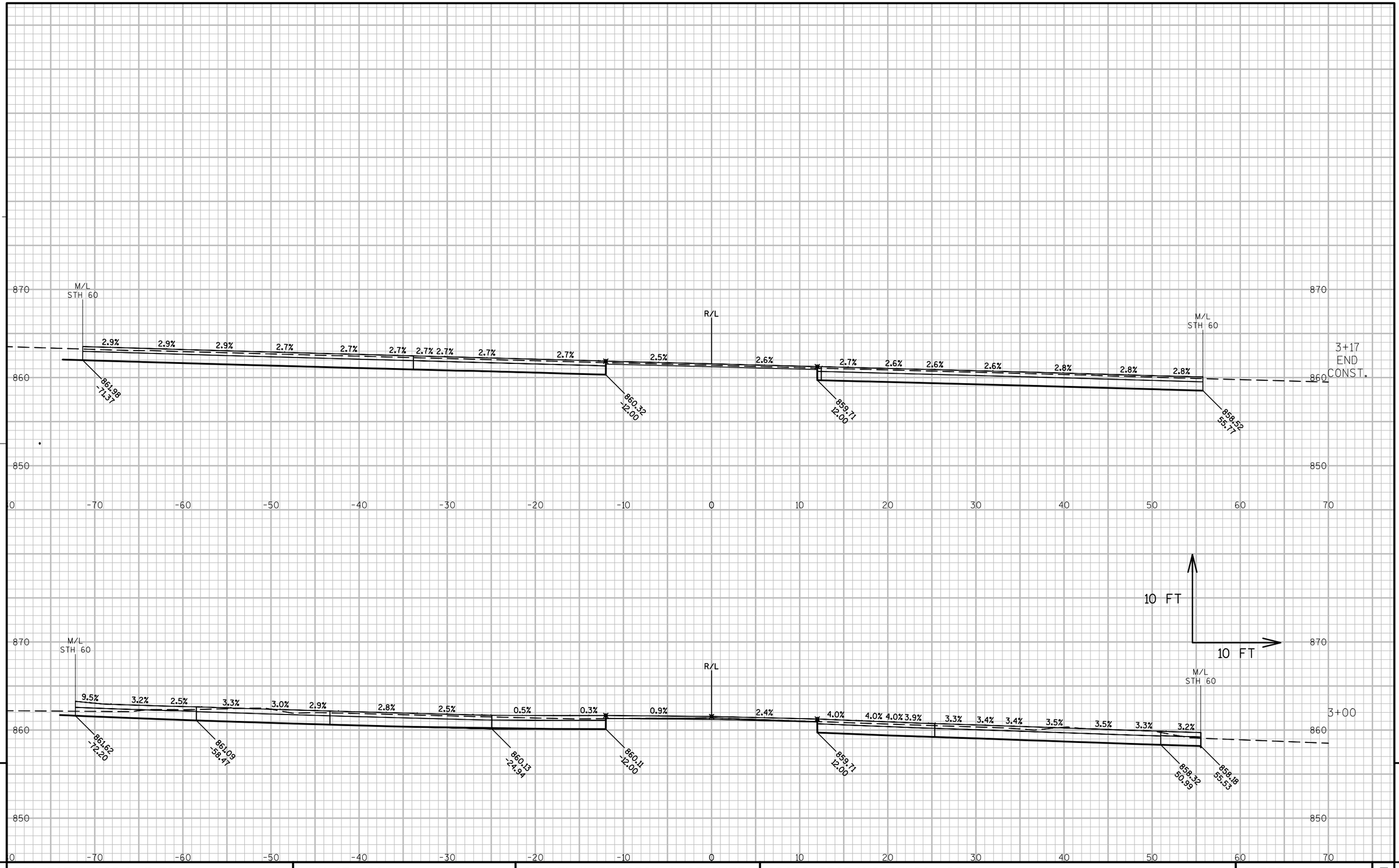


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: CHURCH RD	SHEET 430	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - CHURCH (1)

PLOT DATE : 2/7/2018 11:06 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49

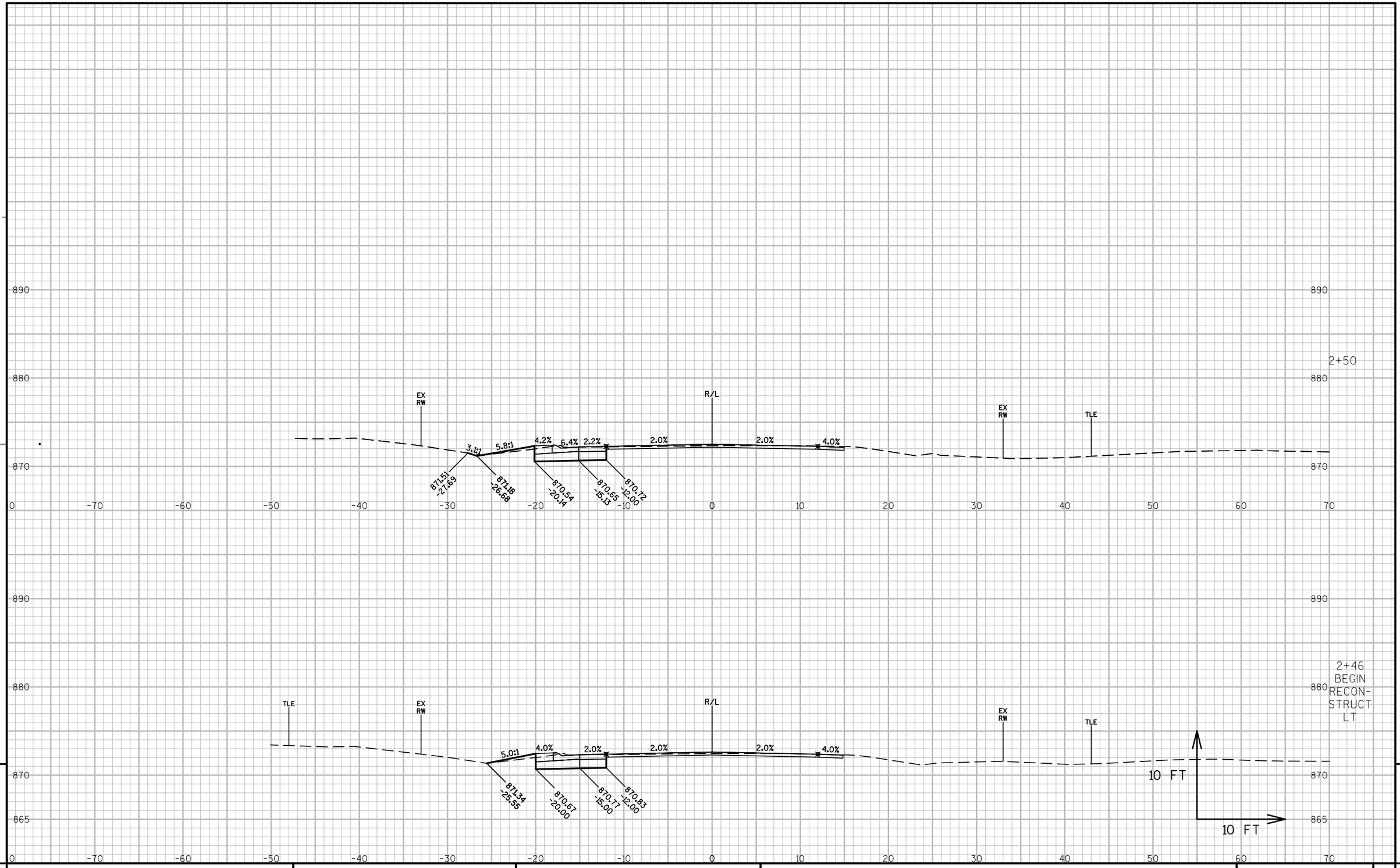


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: CHURCH RD	SHEET 431	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - CHURCH (2)

PLOT DATE : 2/7/2018 11:07 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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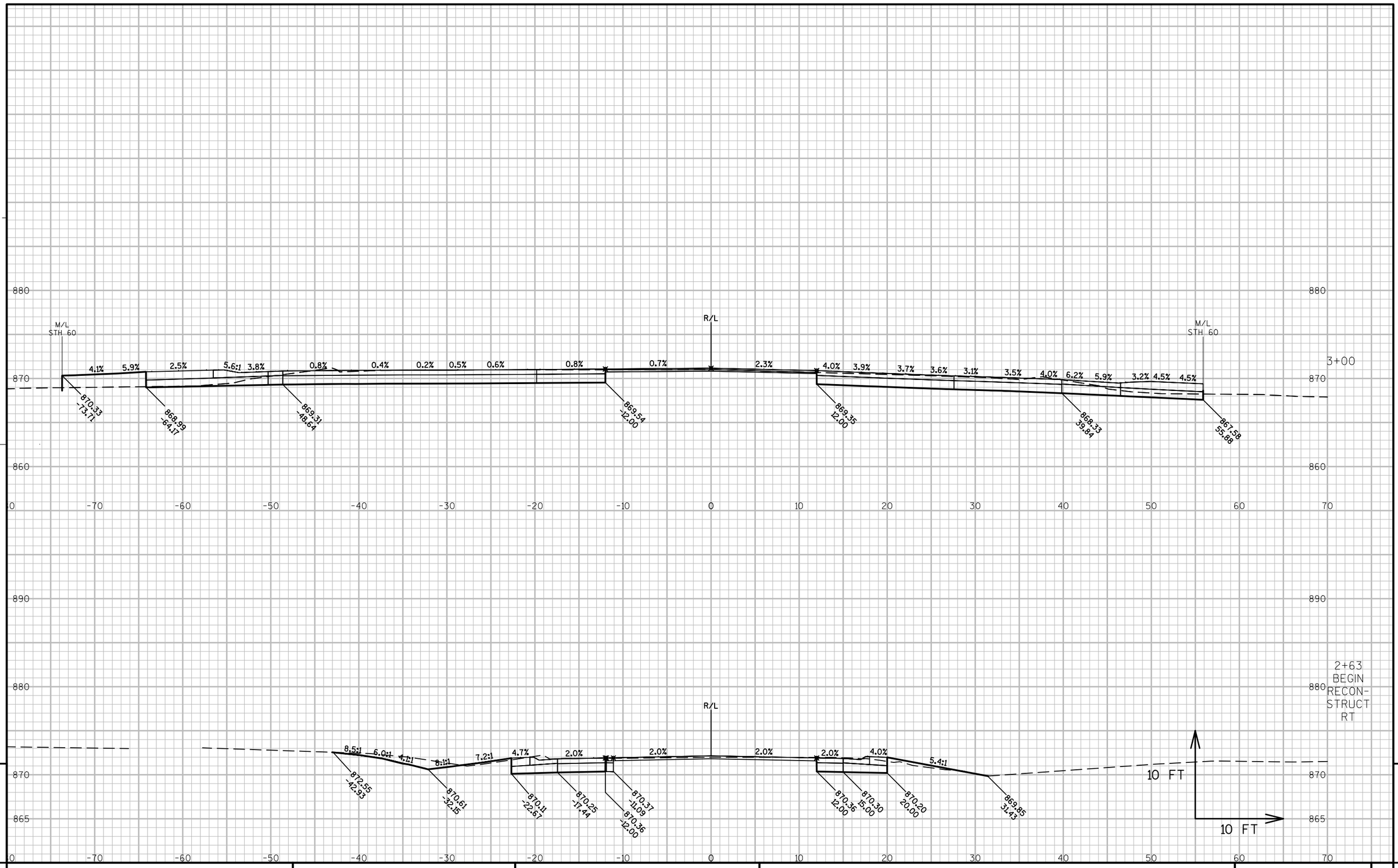
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: BRIARWOOD DR	SHEET 432	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - BRIARWOOD (1)

PLOT DATE : 2/7/2018 11:07 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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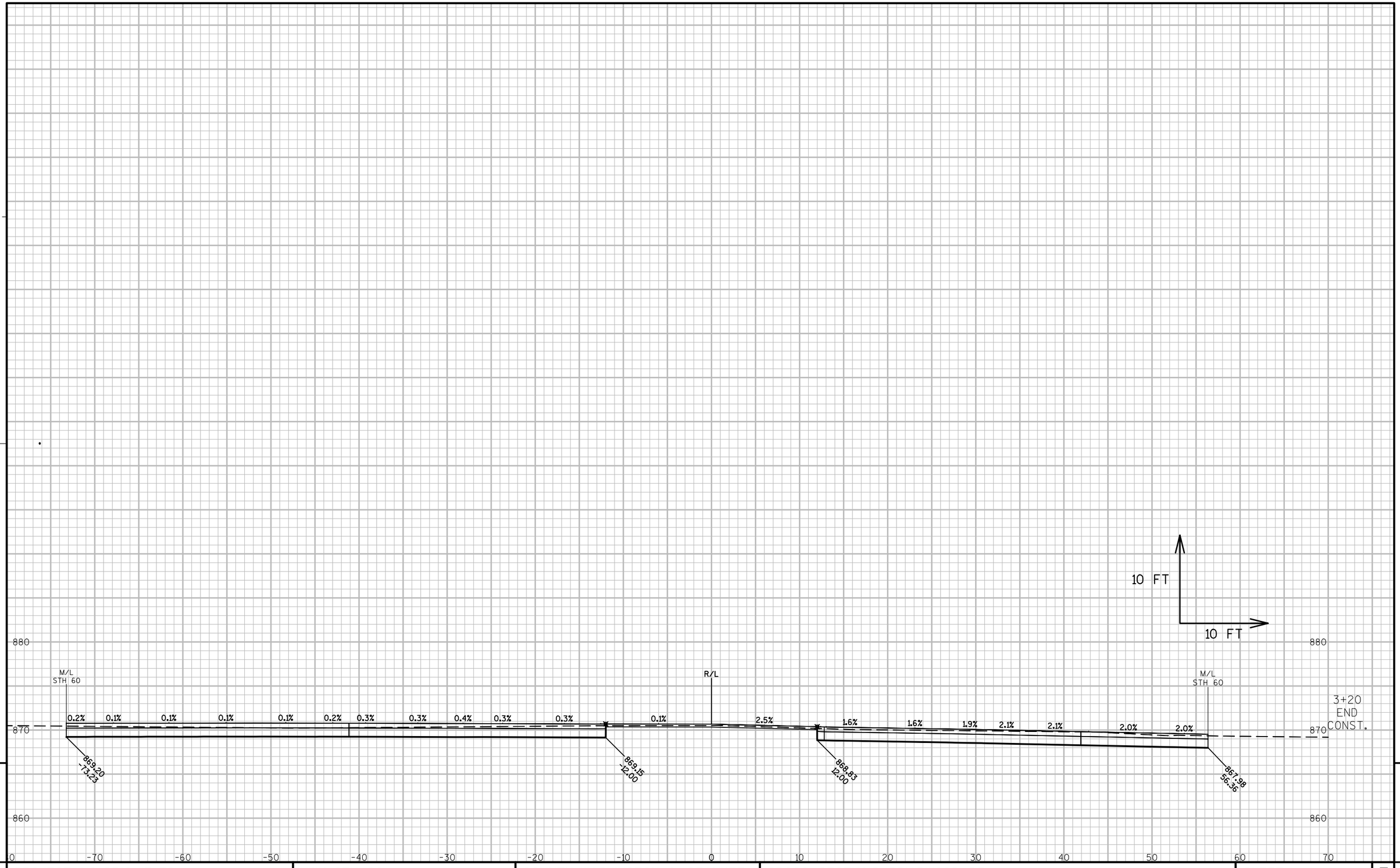
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: BRIARWOOD DR	SHEET 433	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - BRIARWOOD (2)

PLOT DATE : 2/7/2018 1:16 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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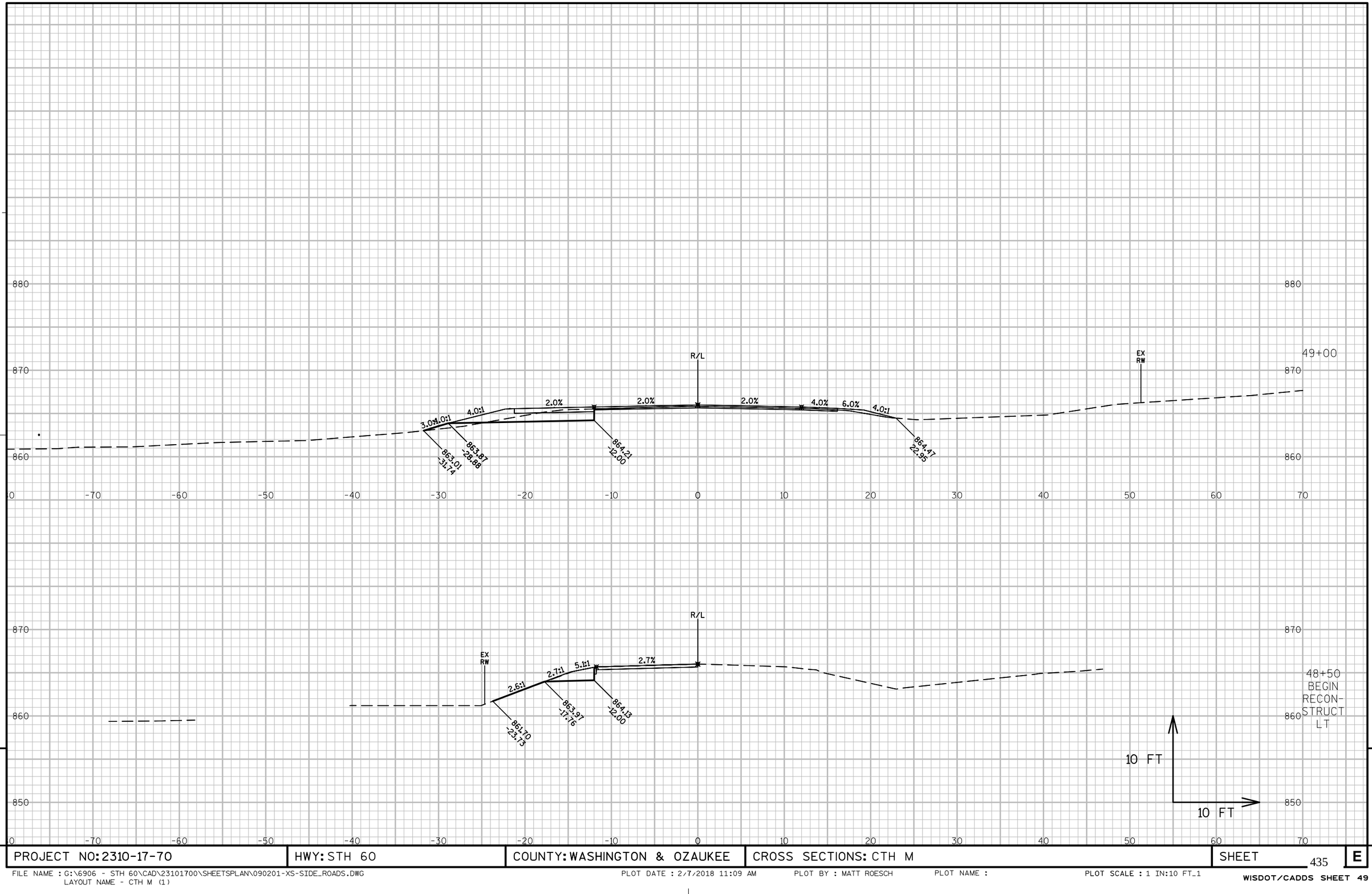
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: BRIARWOOD DR	SHEET 434	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - BRIARWOOD (3)

PLOT DATE : 2/7/2018 11:08 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

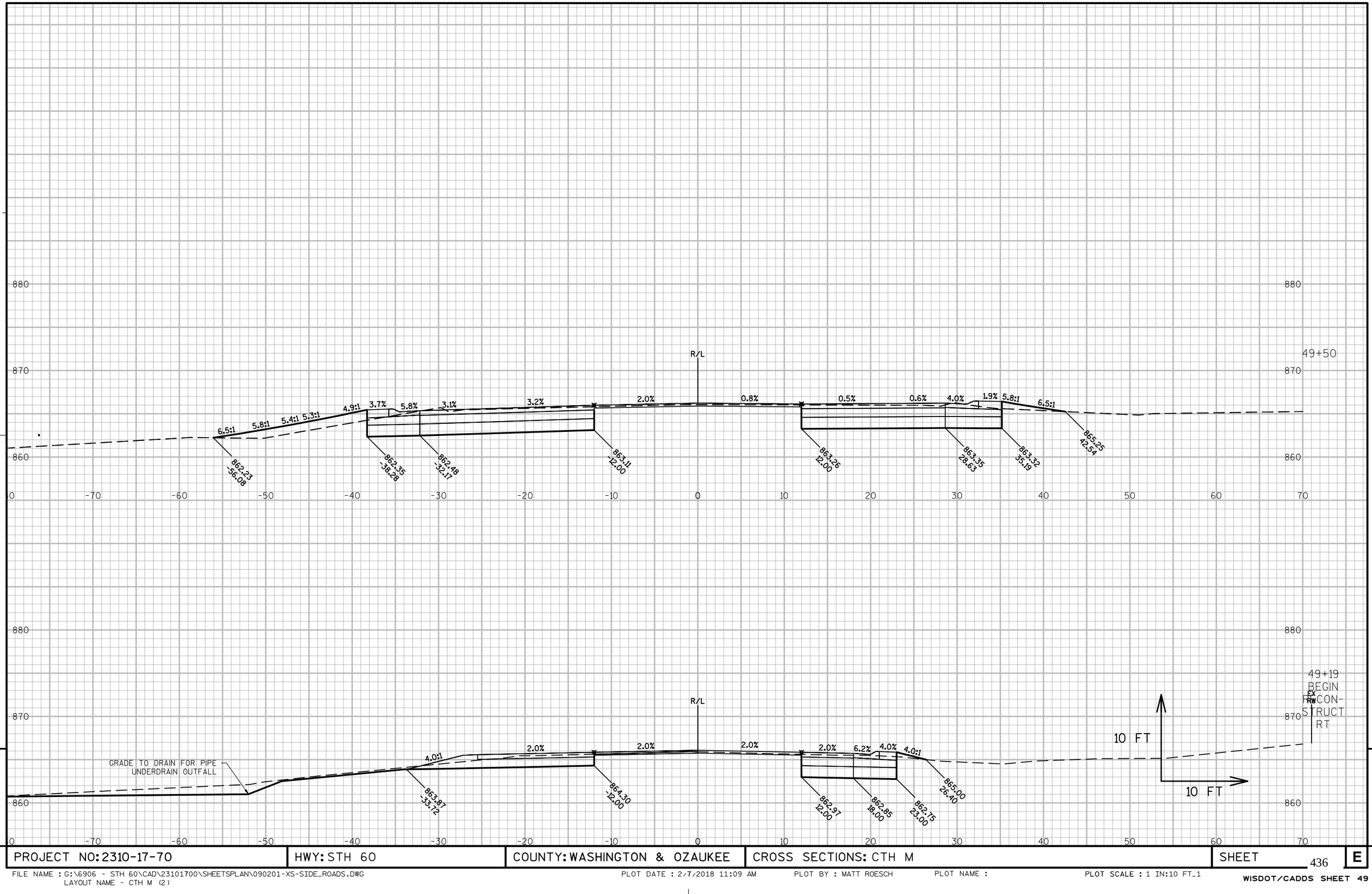


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: CTH M	SHEET 435	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - CTH M (1)

PLOT DATE : 2/7/2018 11:09 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49

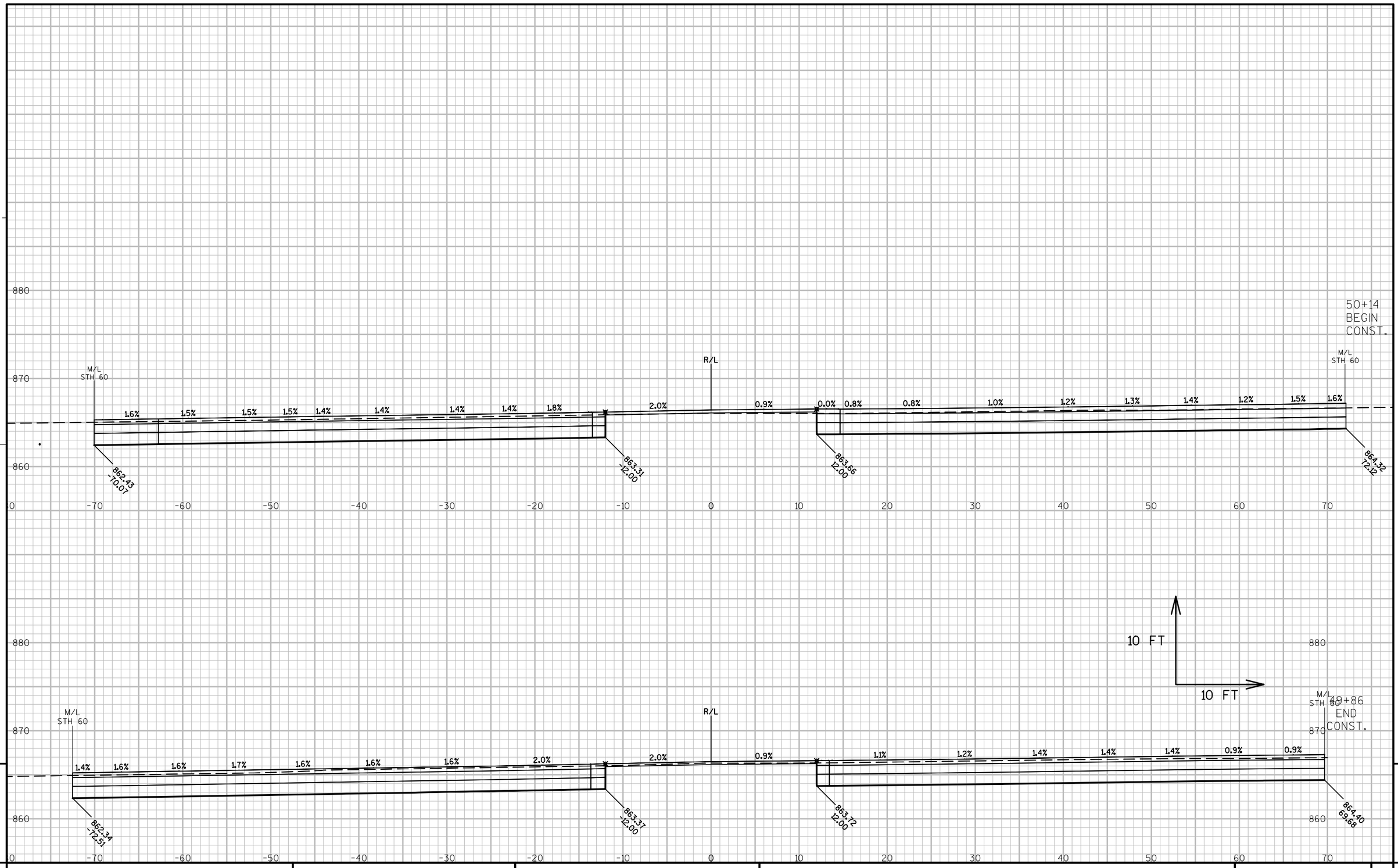


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: CTH M	SHEET 436	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - CTH M (2)

PLOT DATE : 2/7/2018 11:09 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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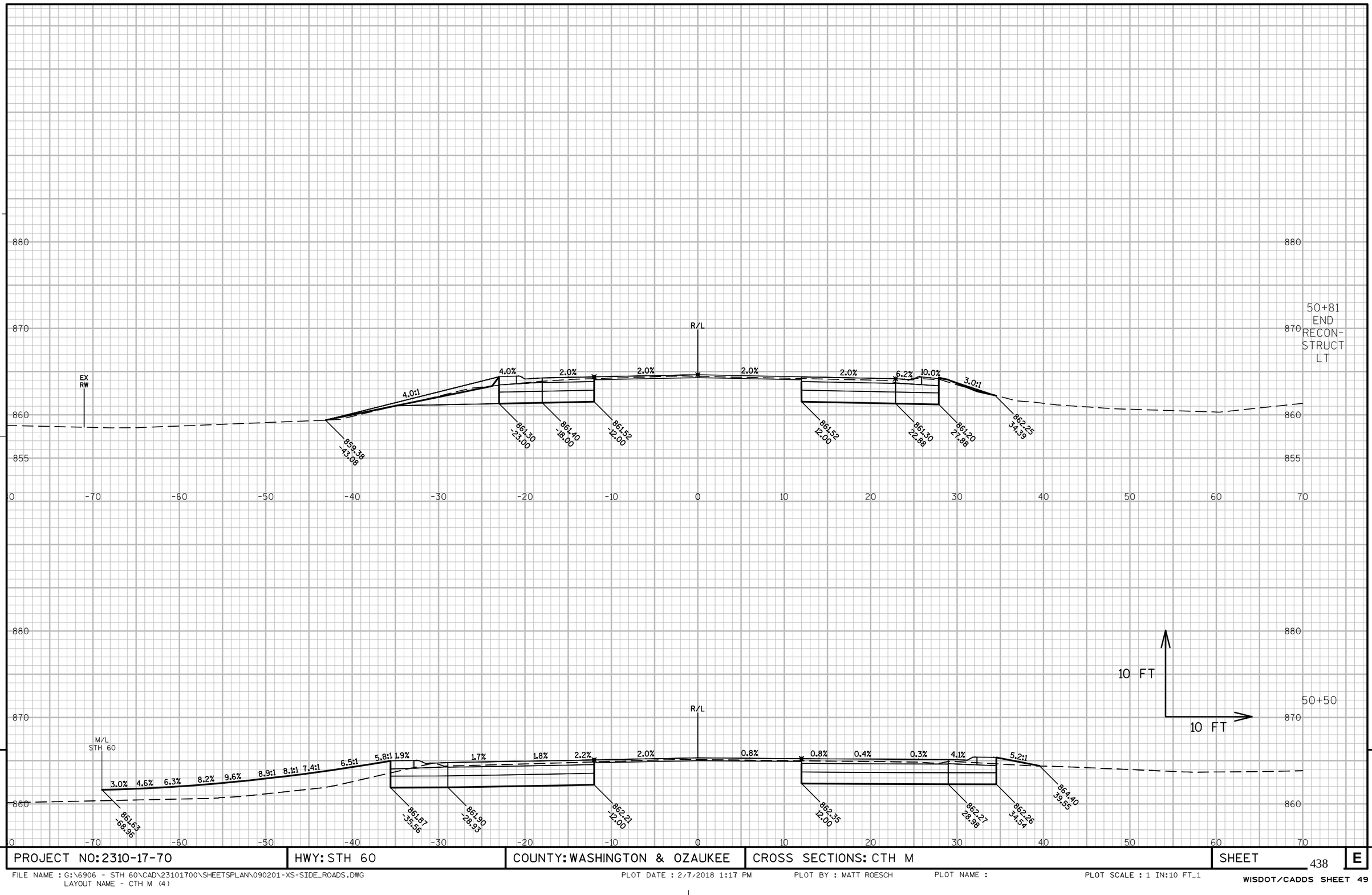
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: CTH M	SHEET 437	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - CTH M (3)

PLOT DATE : 2/7/2018 11:10 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49

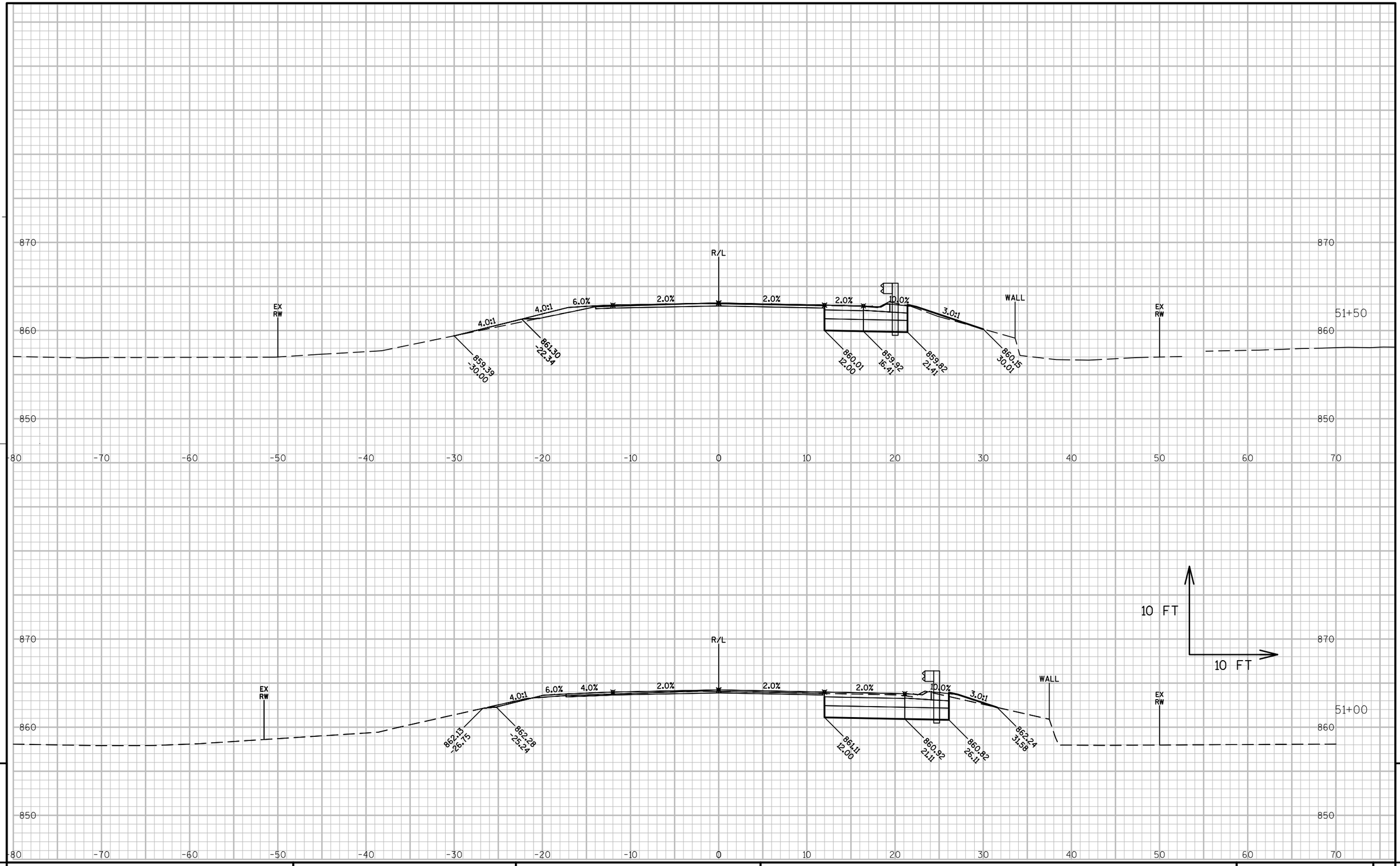


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: CTH M	SHEET 438	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - CTH M (4)

PLOT DATE : 2/7/2018 1:17 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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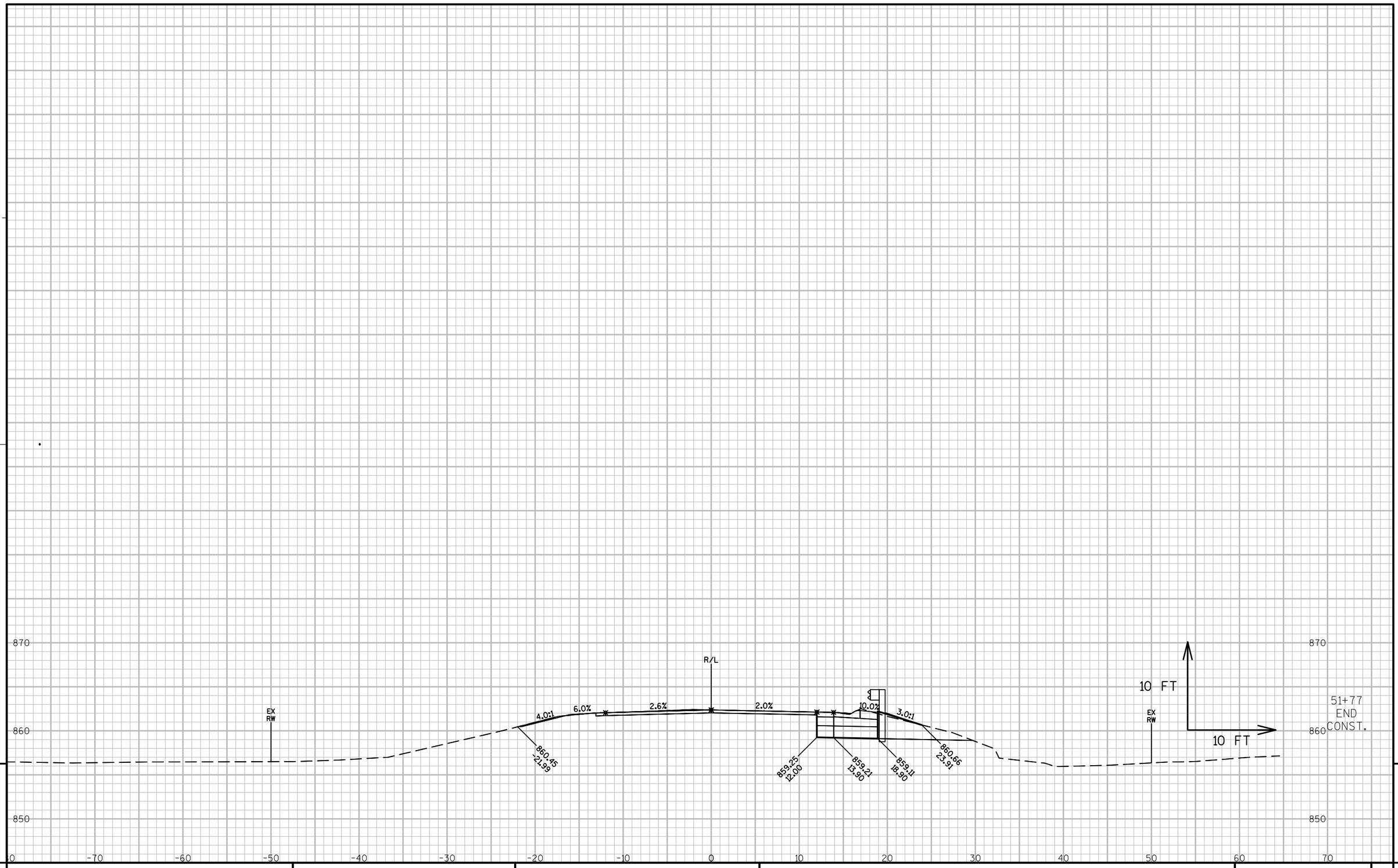
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: CTH M	SHEET 439	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - CTH M (5)
PLOT DATE : 2/7/2018 1:39 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1
WISDOT/CADDS SHEET 49



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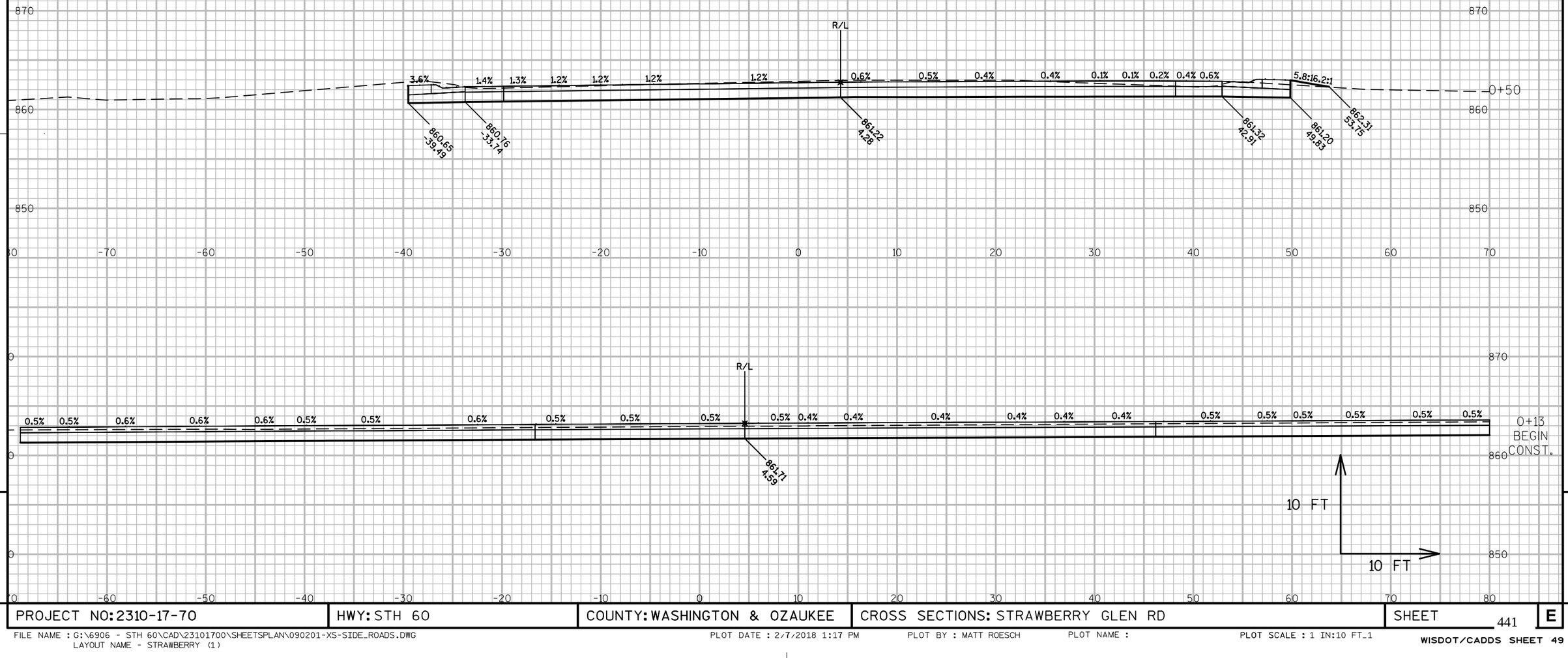
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: CTH M	SHEET 440	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - CTH M (6)

PLOT DATE : 2/7/2018 11:11 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1



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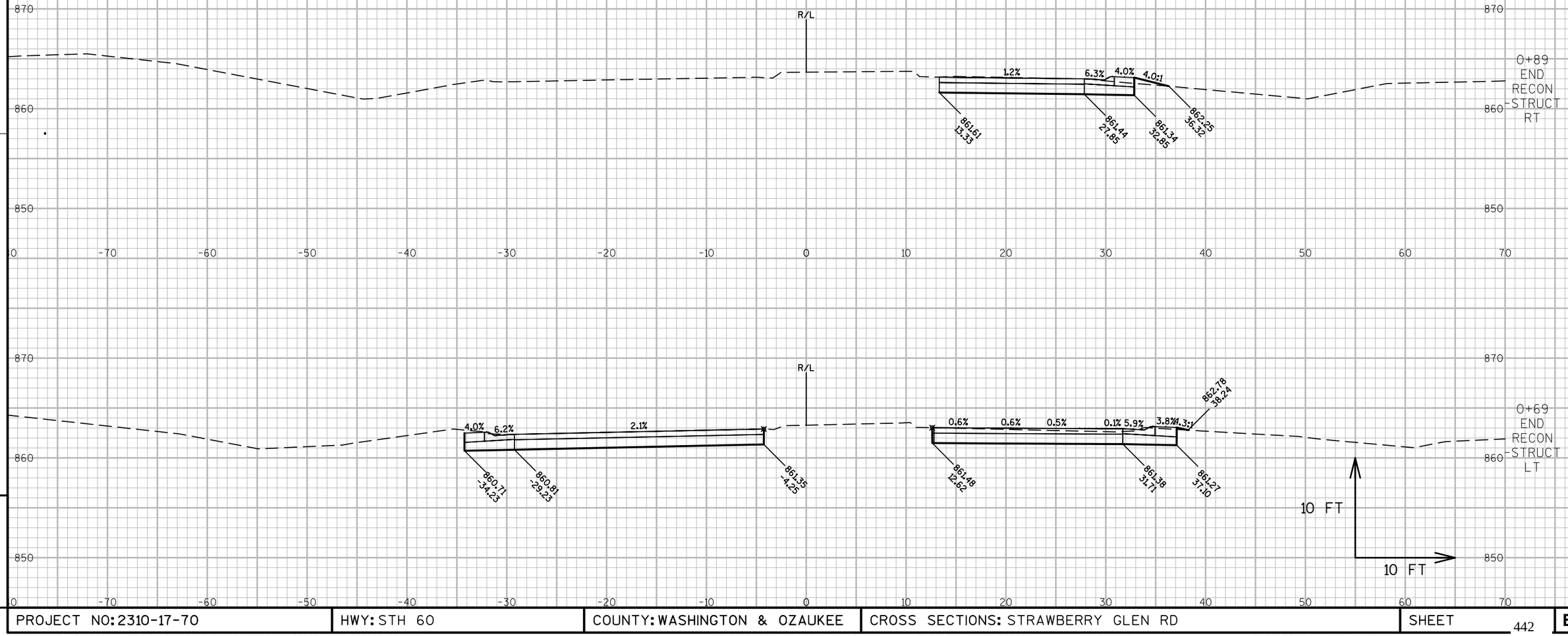
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: STRAWBERRY GLEN RD	SHEET 441	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - STRAWBERRY (1)

PLOT DATE : 2/7/2018 1:17 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49

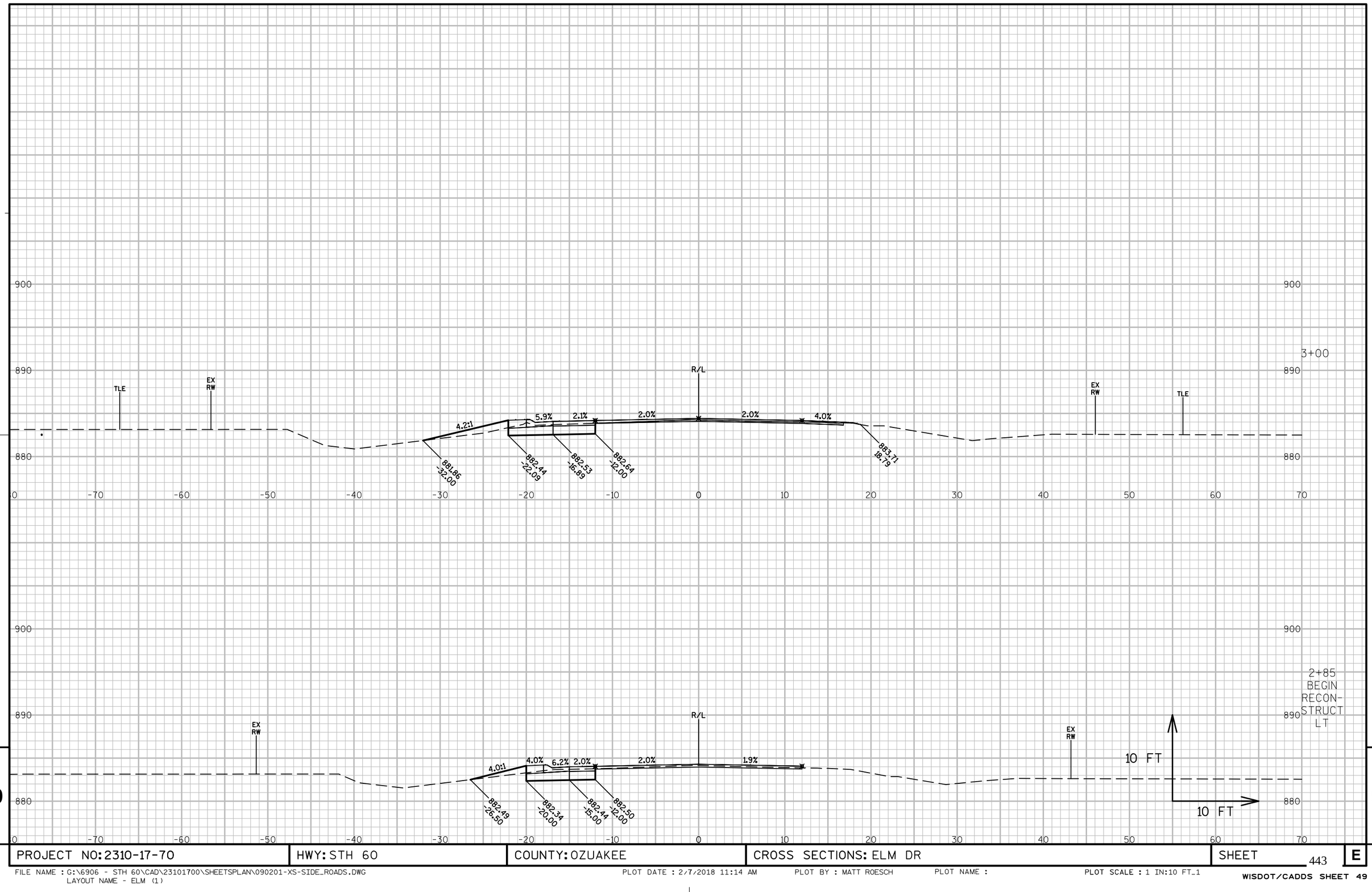


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: WASHINGTON & OZAUKEE	CROSS SECTIONS: STRAWBERRY GLEN RD	SHEET 442	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - STRAWBERRY (2)

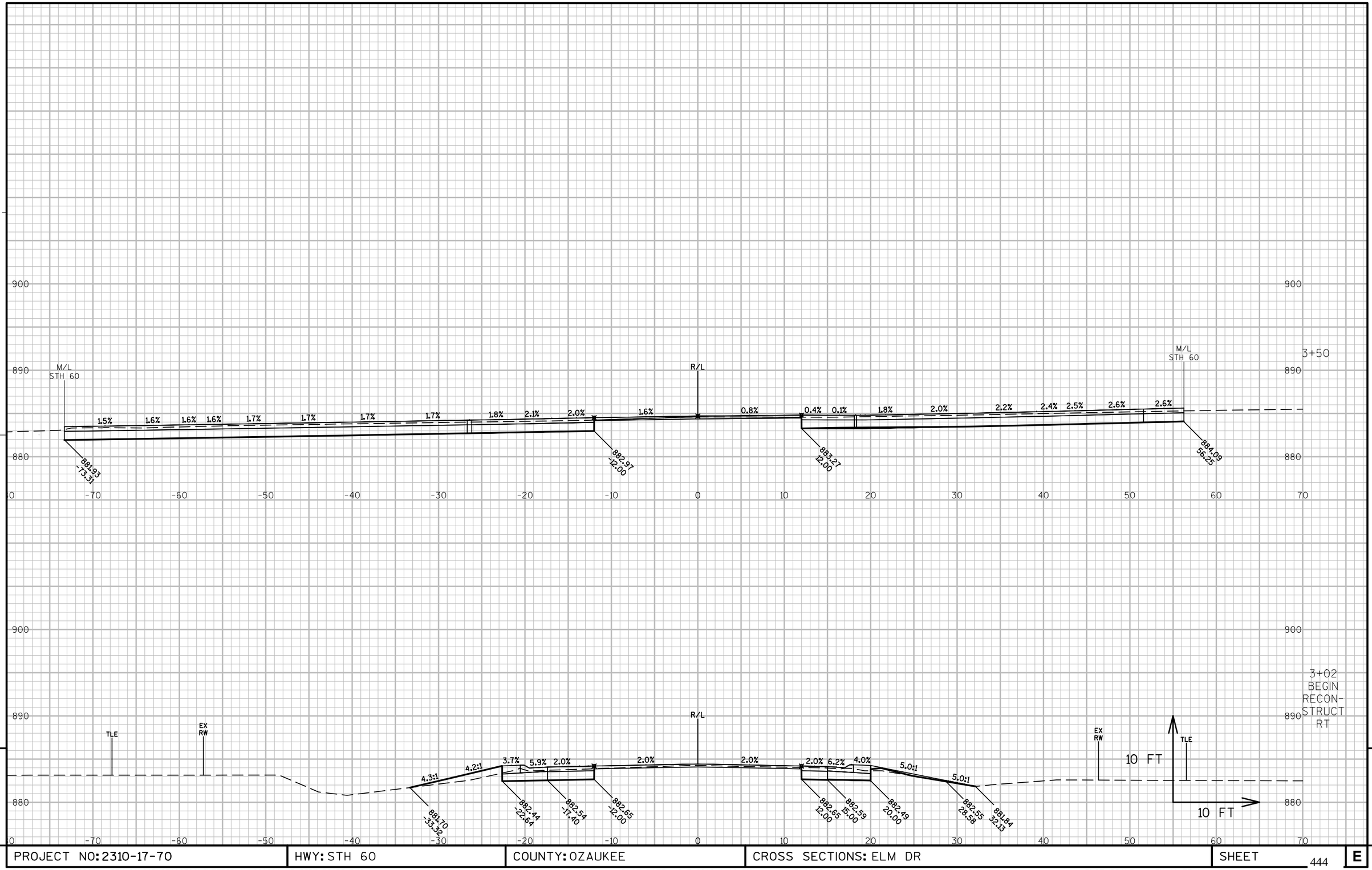
PLOT DATE : 2/7/2018 11:12 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZUAKEE	CROSS SECTIONS: ELM DR	SHEET 443	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - ELM (1)
PLOT DATE : 2/7/2018 11:14 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1
WISDOT/CADDS SHEET 49

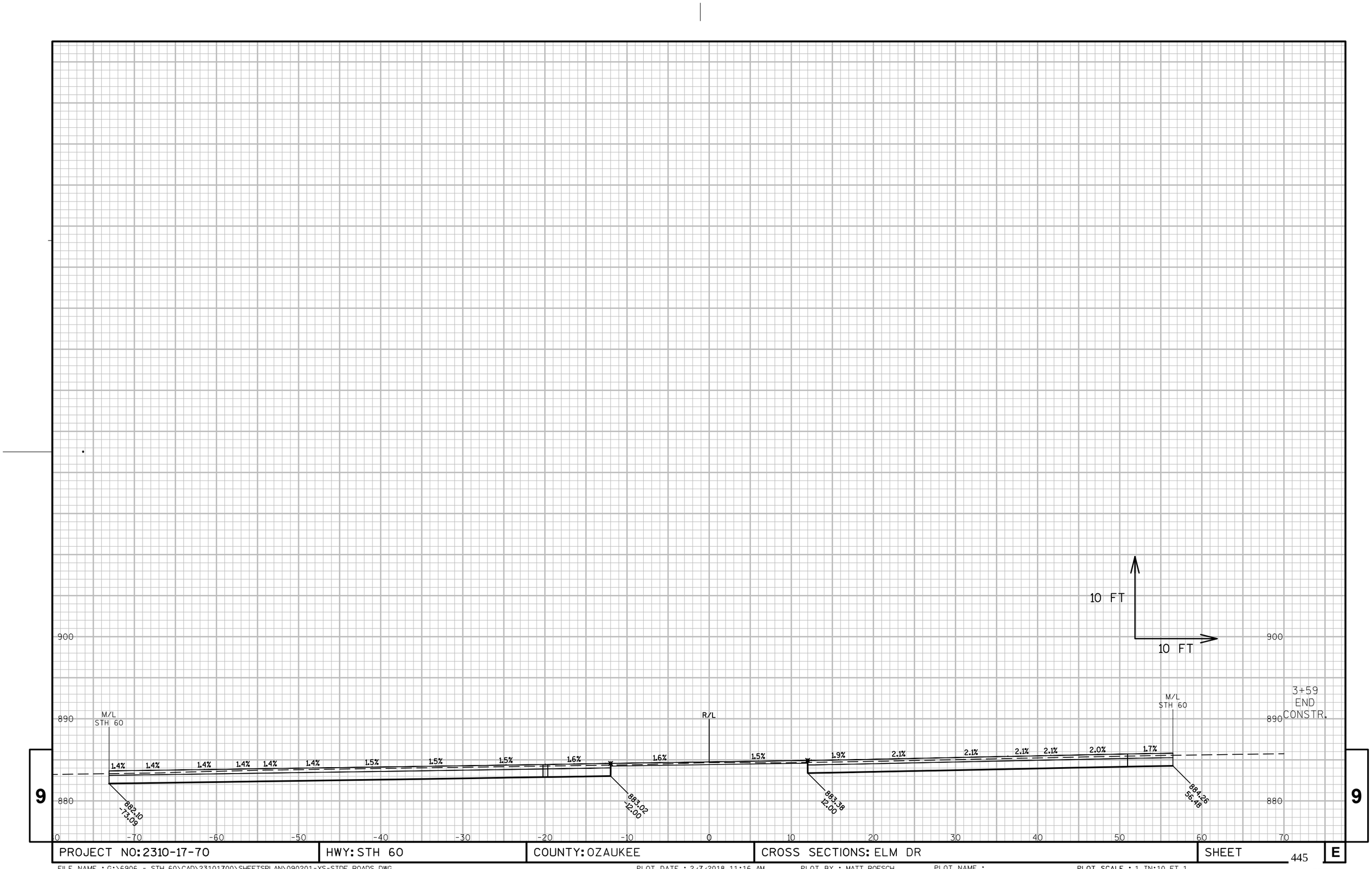


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: ELM DR	SHEET 444	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - ELM (2)

PLOT DATE : 2/7/2018 1:19 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49

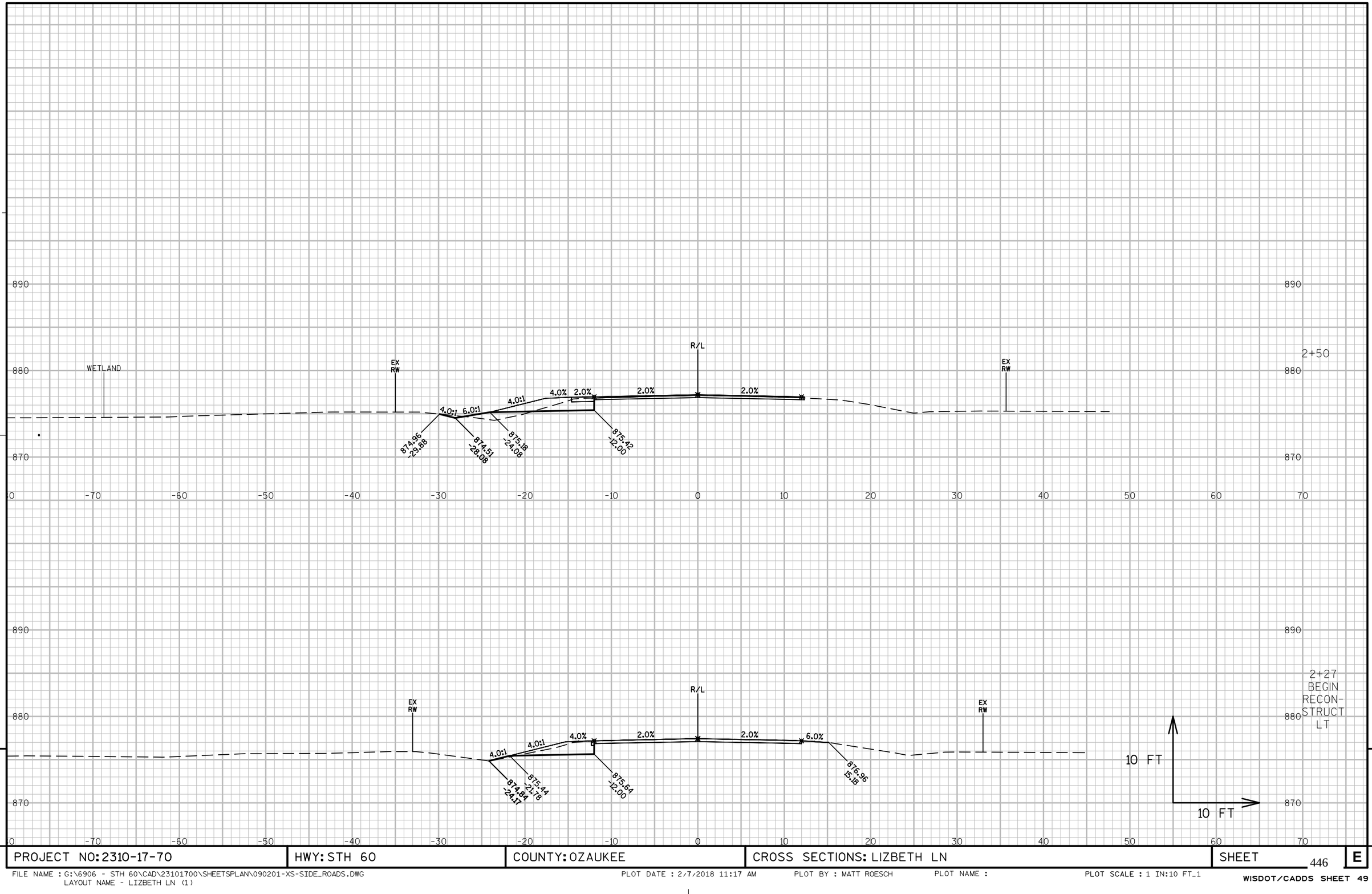


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: ELM DR	SHEET 445	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - ELM (3)

PLOT DATE : 2/7/2018 11:16 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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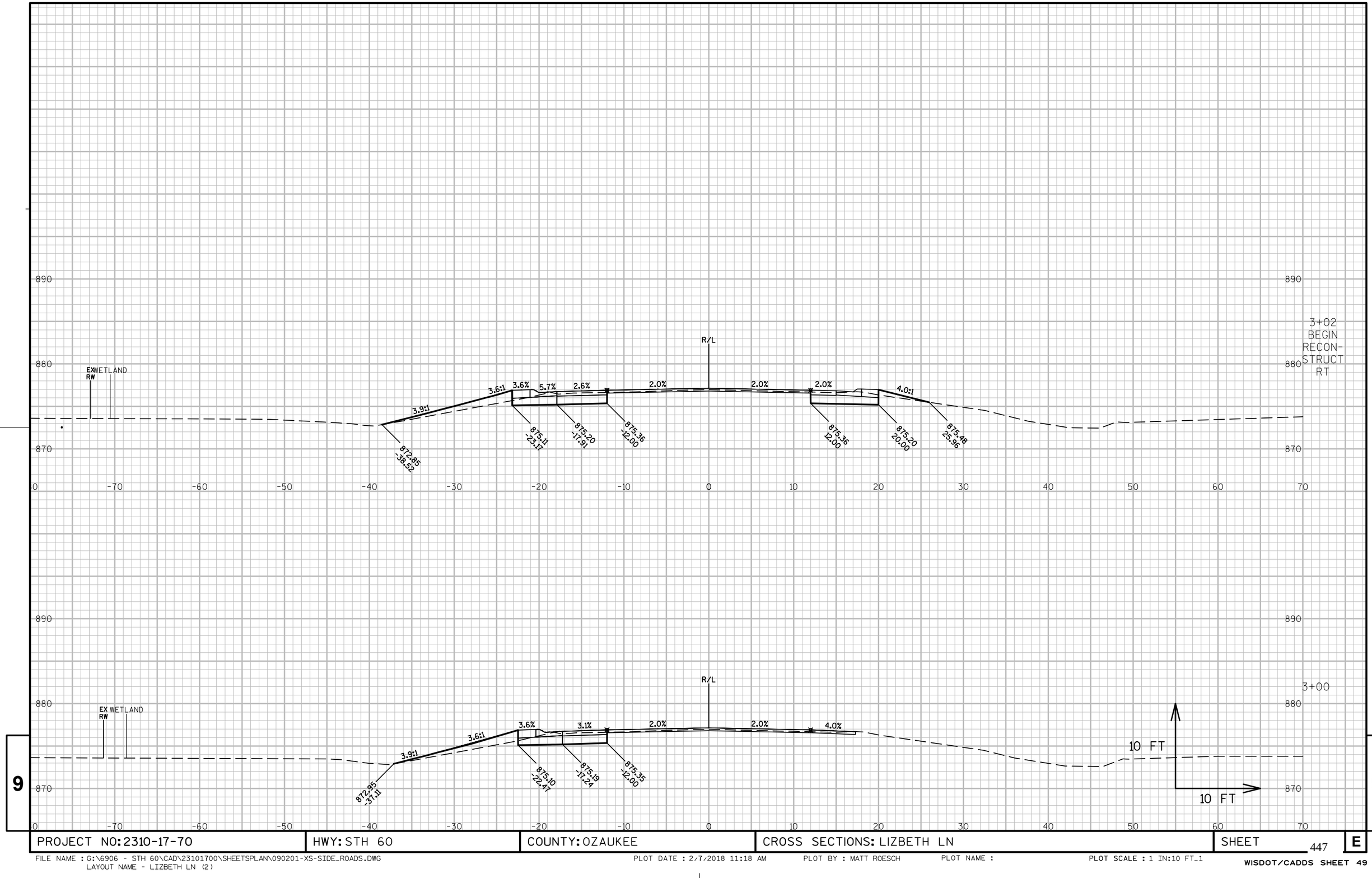
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: LIZBETH LN	SHEET 446	E

9

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - LIZBETH LN (1)

PLOT DATE : 2/7/2018 11:17 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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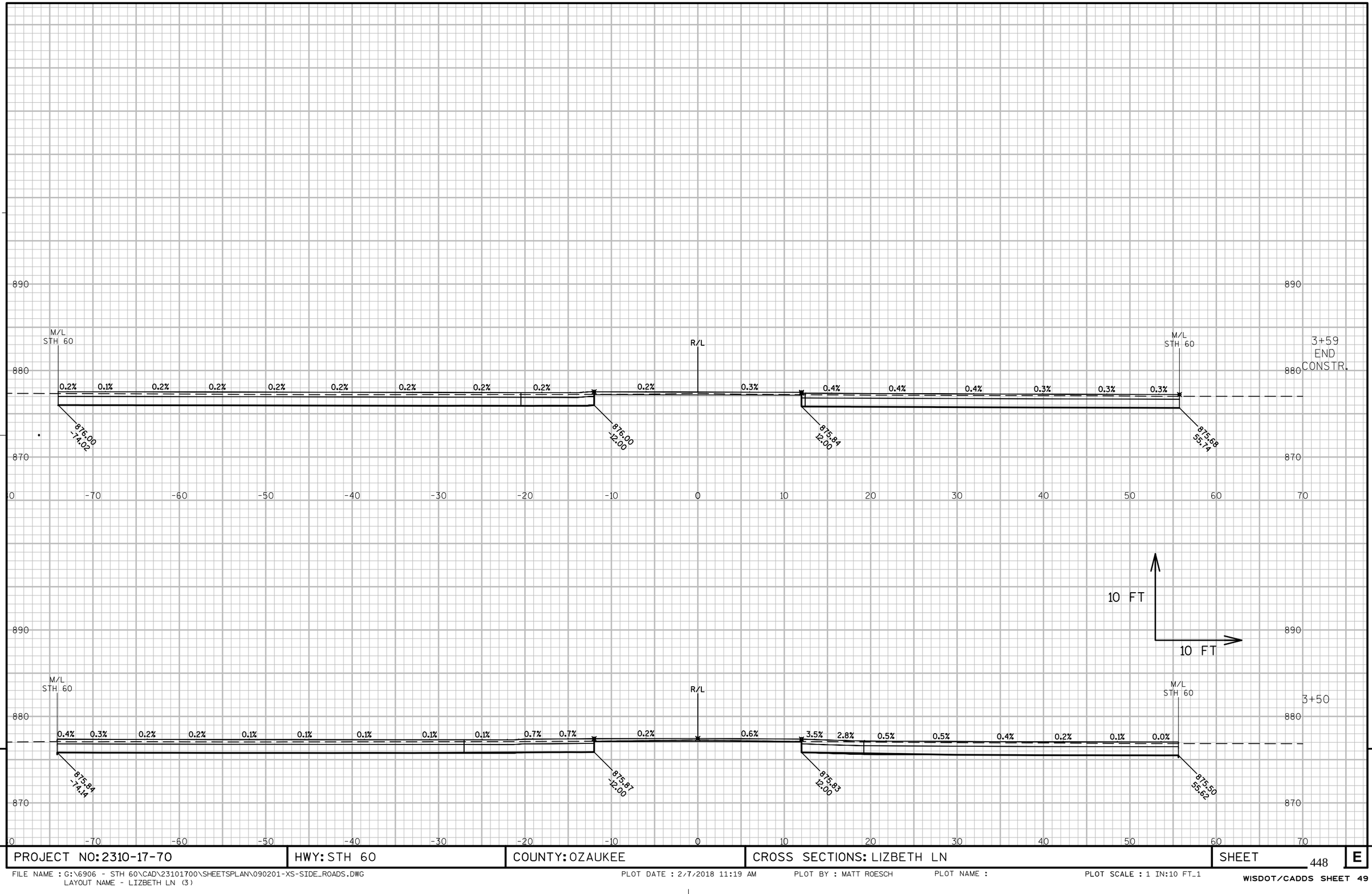
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: LIZBETH LN	SHEET 447	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - LIZBETH LN (2)

PLOT DATE : 2/7/2018 11:18 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: LIZBETH LN	SHEET 448	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - LIZBETH LN (3)

PLOT DATE : 2/7/2018 11:19 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49

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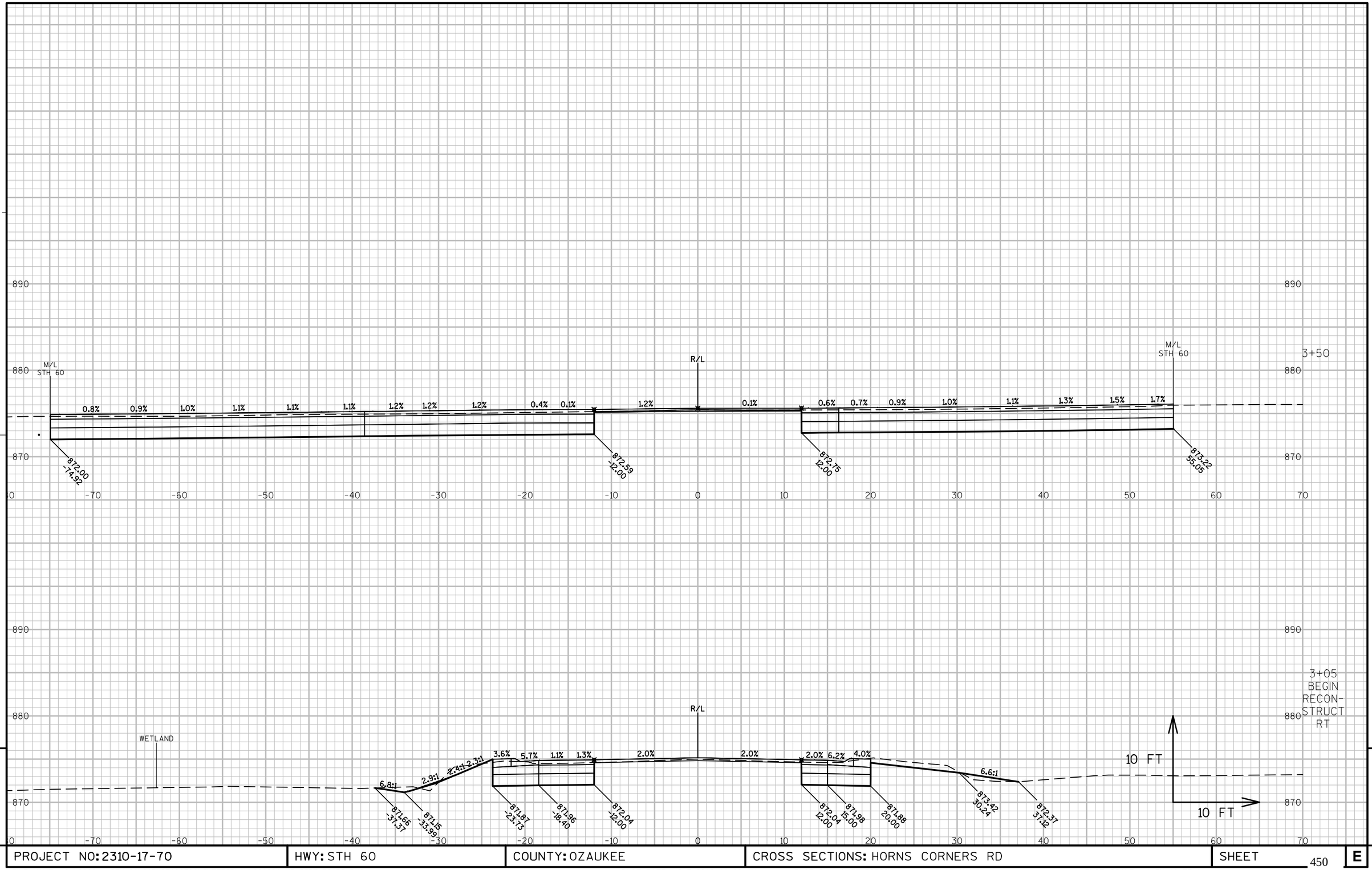
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: HORNS CORNERS RD	SHEET 449	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - HORNS CORNERS (6)

PLOT DATE : 2/7/2018 11:21 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

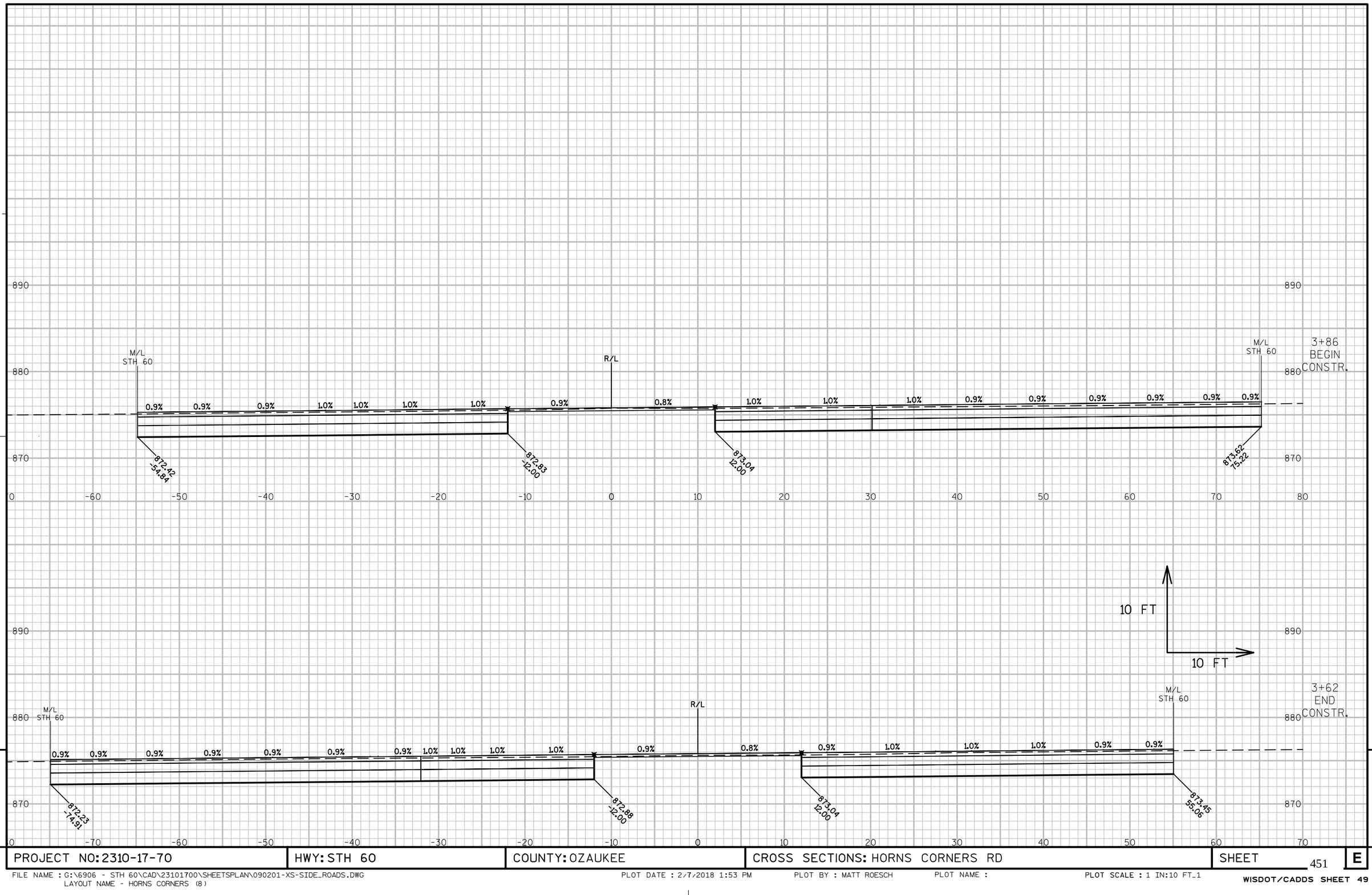


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: HORNS CORNERS RD	SHEET 450	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - HORNS CORNERS (7)

PLOT DATE : 2/7/2018 11:22 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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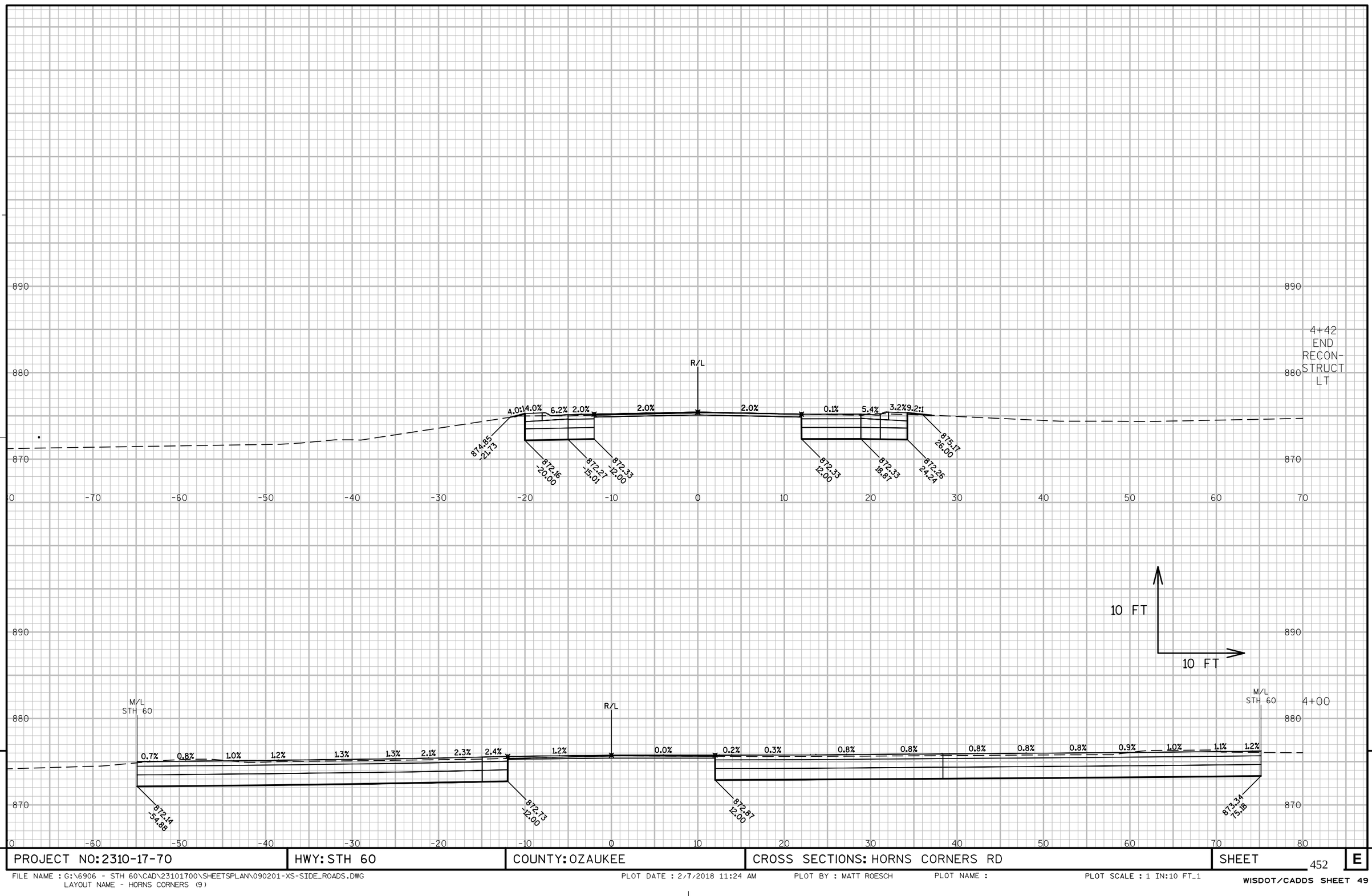
PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: HORNS CORNERS RD	SHEET 451	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - HORNS CORNERS (8)

PLOT DATE : 2/7/2018 1:53 PM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49

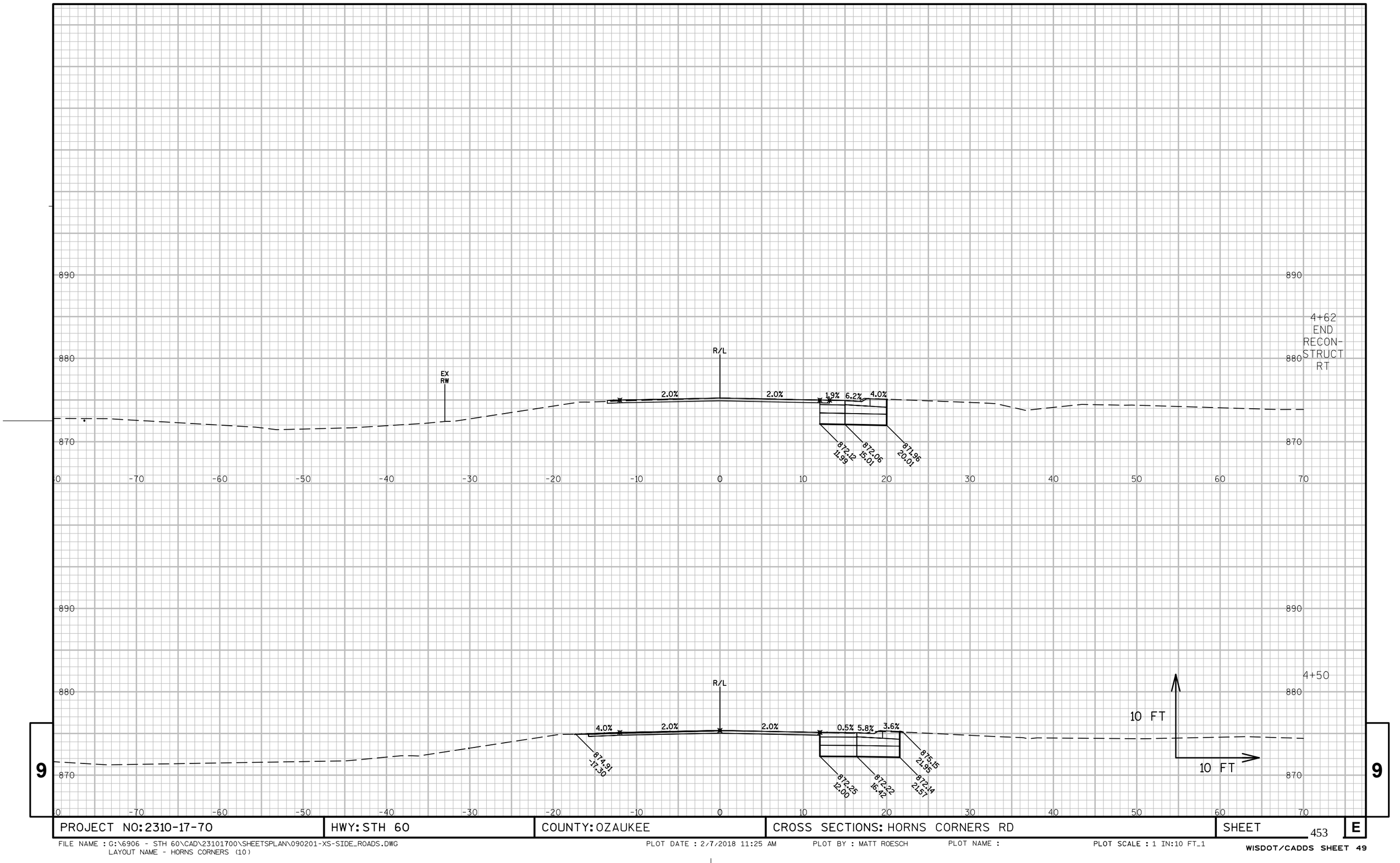


PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: HORNS CORNERS RD	SHEET 452	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - HORNS CORNERS (9)

PLOT DATE : 2/7/2018 11:24 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49



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PROJECT NO: 2310-17-70	HWY: STH 60	COUNTY: OZAUKEE	CROSS SECTIONS: HORNS CORNERS RD	SHEET 453	E

FILE NAME : G:\6906 - STH 60\CAD\23101700\SHEETSPLAN\090201-XS-SIDE_ROADS.DWG
LAYOUT NAME - HORNS CORNERS (10)

PLOT DATE : 2/7/2018 11:25 AM PLOT BY : MATT ROESCH PLOT NAME : PLOT SCALE : 1 IN:10 FT_1

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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Place Sheet Numbers