MAD

DECEMBER 2019

PROJECT ID: 6050-00-71

WITH: N/A

COUNTY: COLUMBIA

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.~~	~~8~~	~~Computer Earthwork Data~~
Section No.	9	Cross Sections

TOTAL SHEETS = 396



07

N

DESIGN DESIGNATION		S. OF STH 33	N. OF STH 33
A.A.D.T.	(2020) =	5,600	2,900
A.A.D.T.	(2040) =	6,700	3,500
D.H.V.	(7.8%) =	484	211
D.D.	=	60/40	60/40
T.	=	14.7%	14.7%
DESIGN SPEED	=	55 MPH	55 MPH
ESALS	=	1,400,000	1,400,000

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	300'EB'	ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
MARSH AREA		TELEPHONE	T
		WATER	W
		UTILITY PEDESTAL	
		POWER POLE	
WOODED OR SHRUB AREA		TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

WYOCENA - MONTELLO

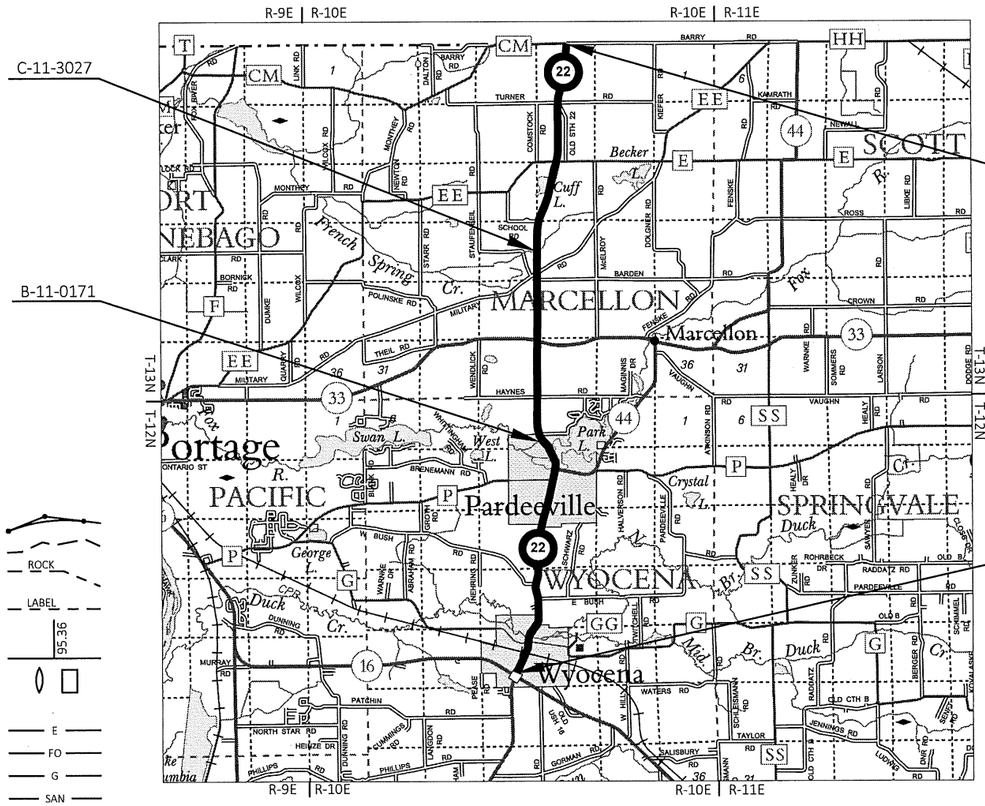
STH 16 TO NCL / B-11-0171

STH 22

COLUMBIA COUNTY

STATE PROJECT NUMBER
6050-00-71

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6050-00-71	WISC 2019734	1



LAYOUT

SCALE 0 2.5 MI

TOTAL NET LENGTH OF CENTERLINE = 10.933 MI

HORIZONTAL POSTITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, COLUMBIA COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCE MAY BE USED AS GROUND DISTANCES. ELEVATION SHOWN ON THIS PLAN ARE REFERENCE TO THE NORTH AMERICAN VERTIAL DATUM OF 1988, NAVD (2012.)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	SW REGION / JSD PROFESSIONAL SERVICES
Designer	JOSHUA NELSON, P.E.
Project Manager	MAHESH SHRESTHA, P.E.
Regional Examiner	SW REGION
Regional Supervisor	WILLIAM STROBEL, P.E.

APPROVED FOR THE DEPARTMENT

DATE: 7/16/2019 (Signature)

E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\010101_TI.DWG

PLOT DATE : 6/27/2019 3:10 PM

PLOT BY : NELSON, JOSHUA B

PLOT NAME :

GENERAL NOTES

THE CENTERLINE OF STH 22 IS APPROXIMATELY THE MAINLINE REFERENCE LINE.

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

DISTURBED AREAS WITHIN THE RIGHT OF WAY SHALL BE RESTORED AS DIRECTED BY THE ENGINEER.

WHEN THE QUANTITY OF BASE AGGREGATE DENSE IS MEASURED FOR PAYMENT IN TONS, THE DEPTH OR THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

EROSION CONTROL FEATURES WILL BE DETERMINED BY THE EROSION CONTROL IMPLEMENTATION PLAN (ECIP). ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

LIMITS AND LOCATIONS OF BEAM GUARD REPLACEMENTS AND ADJUSTMENTS MAY BE ADJUSTED BY THE ENGINEER. COORDINATE EXACT LOCATIONS WITH THE ENGINEER IN THE FIELD.

EXACT LOCATIONS AND WIDTHS OF DRIVEWAYS AND PRIVATE FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA.

ALL EXISTING SIGNS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION OPERATIONS REQUIRE THEIR REMOVAL OR UNLESS THE ENGINEER APPROVES THEIR REMOVAL.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, BIKE OR PARKING LANE.

NO LONGITUDINAL HMA PAVEMENT COLD JOINT SHALL BE ALLOWED BETWEEN THE DRIVING LANE AND PAVED SHOULDER.

HMA PAVEMENT WEIGHT CALCULATIONS BASED ON 112 LB/SY/IN.

ENVIRONMENTALLY SENSITIVE AREAS AND WETLANDS SHOWN IN THE PLANS ARE APPROXIMATE AND SHOULD BE USED FOR REFERENCE PURPOSES ONLY.

DO NOT STORE EQUIPMENT OR MATERIALS IN ENVIRONMENTALLY SENSITIVE AREAS, WETLANDS, OR WATERWAYS.

CONTRACTOR TO PROTECT DH5554-PARDEEVILLE GPS AND DH5568-MARCELLON GPS AND KEEP CONSTRUCTION EQUIPMENT AT LEAST 10 FEET AWAY FROM DH5554-PARDEEVILLE GPS AND DH5568-MARCELLON GPS.

ENSURE THAT DH5554-PARDEEVILLE GPS AND DH5568-MARCELLON GPS IS/ARE NOT DISTURBED, BUMPED OR MOVED DURING THE DURATION OF THE PROJECT. NOTIFY JACOB ROCKWEILER IMMEDIATELY IF DH5554-PARDEEVILLE GPS AND DH5568-MARCELLON GPS IS/ARE DISTURBED, BUMPED OR MOVED DURING CONSTRUCTION OPERATIONS.

JACOB ROCKWEILER, P.E., WISCONSIN HEIGHT MODERNIZATION PROGRAM MANAGER WITH THE WISCONSIN DEPARTMENT OF TRANSPORTATION WHOSE PHONE NUMBER IS (608) 516-6362 AND EMAIL IS JACOB.ROCKWEILER@DOT.WI.GOV

ABBREVIATIONS

AECP	APRON END WALL FOR CULVERT PIPE
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
B.	BARN
B.P.	BREAK POINT
BAD	BASE AGGREGATE DENSE
BOC	BACK OF CURB
COR.	CORNER
C.S.C.P.	CORRUGATED STEEL CULVERT PIPE
C.S.P.A	CORRUGATED STEEL PIPE ARCH
DIM.	DIMENSION
e.	EXTERNAL DISTANCE
DIM.A.T.	ENERGY ABSORBING TERMINAL
DIM.O.P.	EDGE OF PAVEMENT
H.P.	HIGH POINT
L.P.	LOW POINT
LPOL	LIGHT POLE
MAX.	MAXIMUM
MIN.	MINIMUM
NOR.	NORMAL
T.	PERCENT TRUCKS
R.C.A.P.	REINFORCED CONCRETE ARC PIPE
R.C.C.P.	REINFORCED CONCRETE CULVERT PIPE
R.C.P.	REINFORCED CONCRETE PIPE
S.	SHED
SHR.	SHRINKAGE
T.O.C.	TOP OF CURB

HMA PAVEMENT SUMMARY

4" HMA PAVEMENT OVERLAY		
LAYER	THICKNESS	HMA TYPE
UPPER LAYER	2"	4 MT 58-28 S
LOWER LAYER	2"	4 MT 58-28 S

VARIABLE DEPTH HMA PAVEMENT (OVERLAY CONCRETE BASE PATCH)		
LAYER	THICKNESS	HMA TYPE
UPPER LAYER	1 ¾"	4 MT 58-28 S
LOWER LAYER	VARIES*	4 MT 58-28 S

UTILITY CONTACTS

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SECTION 2 ORDER OF SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
CONSTRUCTION DETAILS: CURB RAMPS
CONSTRUCTION DETAILS: BEAMGUARD
PLAN DETAILS
STORM SEWER
ELECTRICAL PLAN DETAILS
TRAFFIC CONTROL - DETOUR
TRAFFIC CONTROL - PEDESTRIAN ROUTES
SUPER ELEVATION TABLES

WISDOT REGION CONTACT

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2101 WRIGHT STREET
MADISON, WI 53704
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MAHESH.SHRESTHA@DOT.WI.GOV

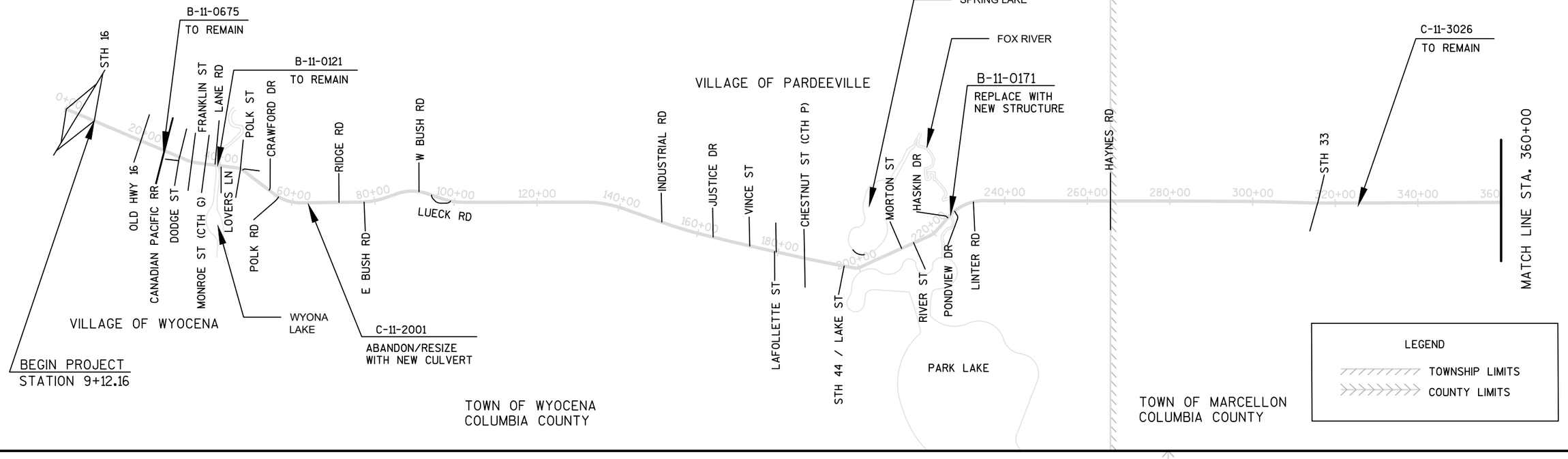
WISDOT PROJECT LEADER

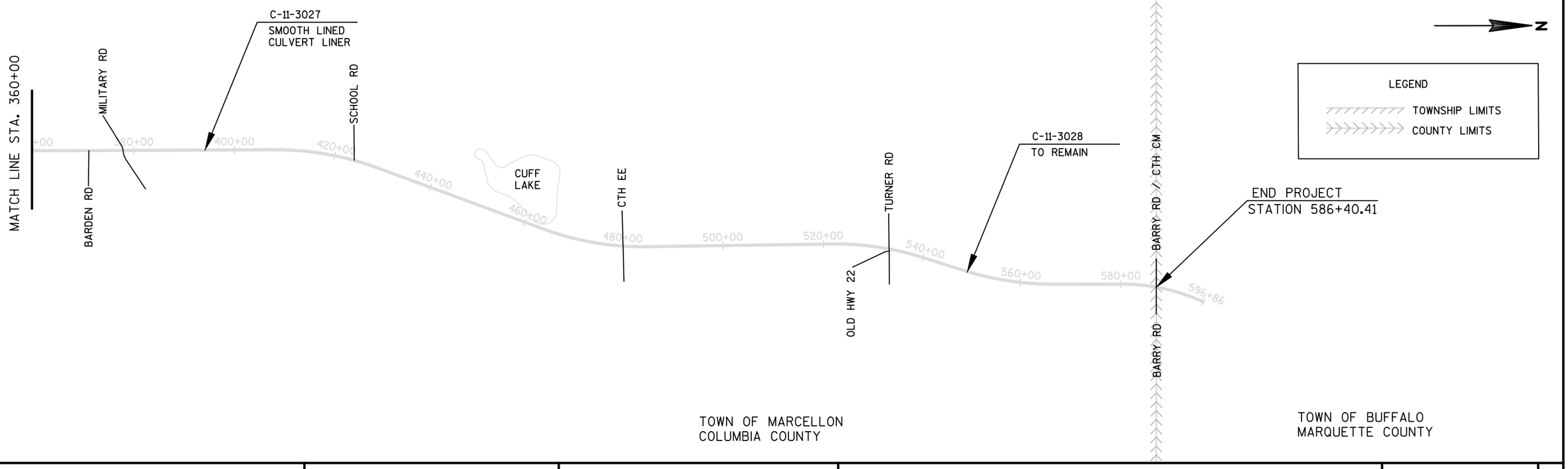
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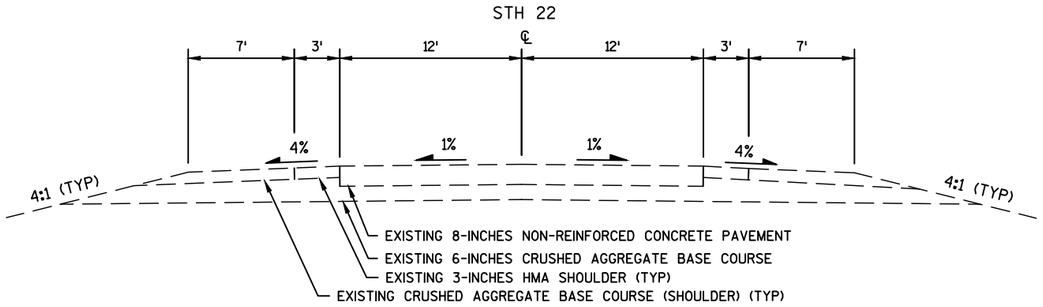
DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com





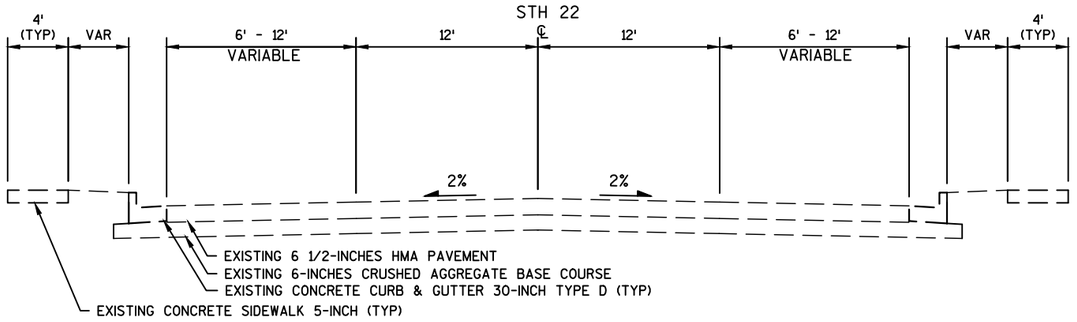
PROJECT NO:6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\020201_PO.DWG
LAYOUT NAME - 020201_PO - PLAN DBL 1 IN 200 FT
PLOT DATE : 7/23/2019 10:31 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:2500 FT
WISDOT/CADDS SHEET 44



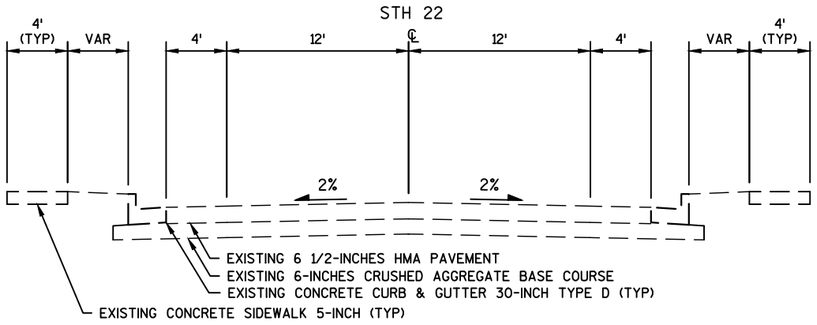
EXISTING TYPICAL SECTION STH 22

STA 9+12 TO STA 18+95



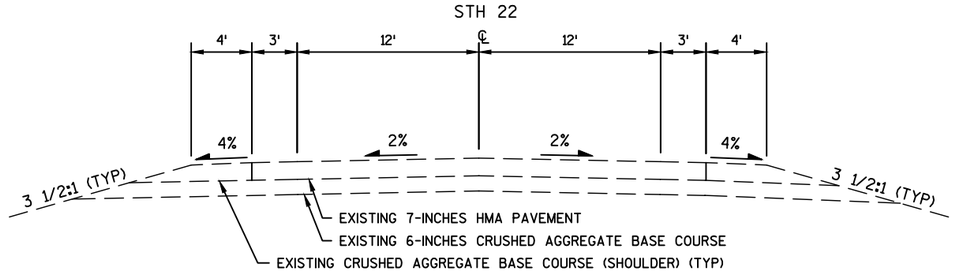
EXISTING TYPICAL SECTION STH 22

STA 164+30 TO STA 225+50



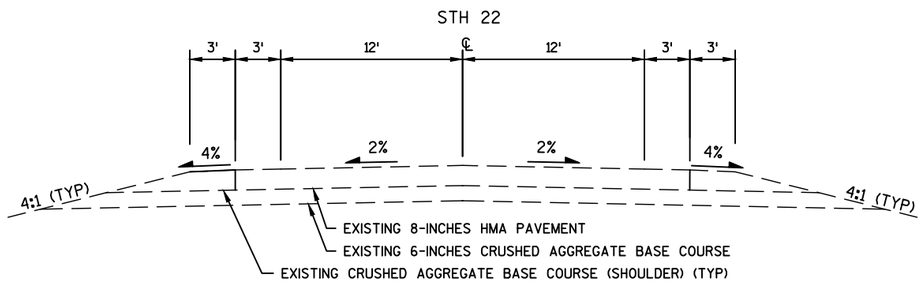
EXISTING TYPICAL SECTION STH 22

STA 25+00 TO STA 39+66
STA 40+59 TO STA 43+92



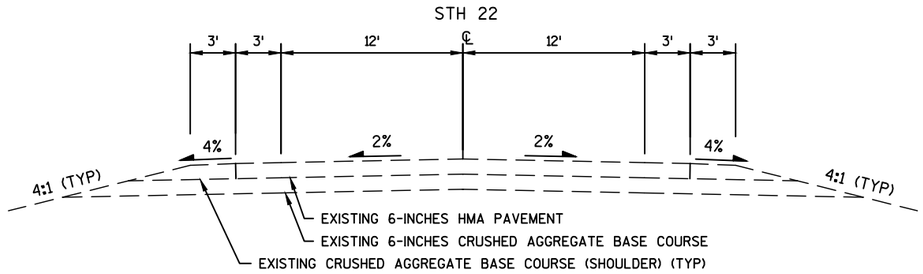
EXISTING TYPICAL SECTION STH 22

STA 225+50 TO STA 315+66



EXISTING TYPICAL SECTION STH 22

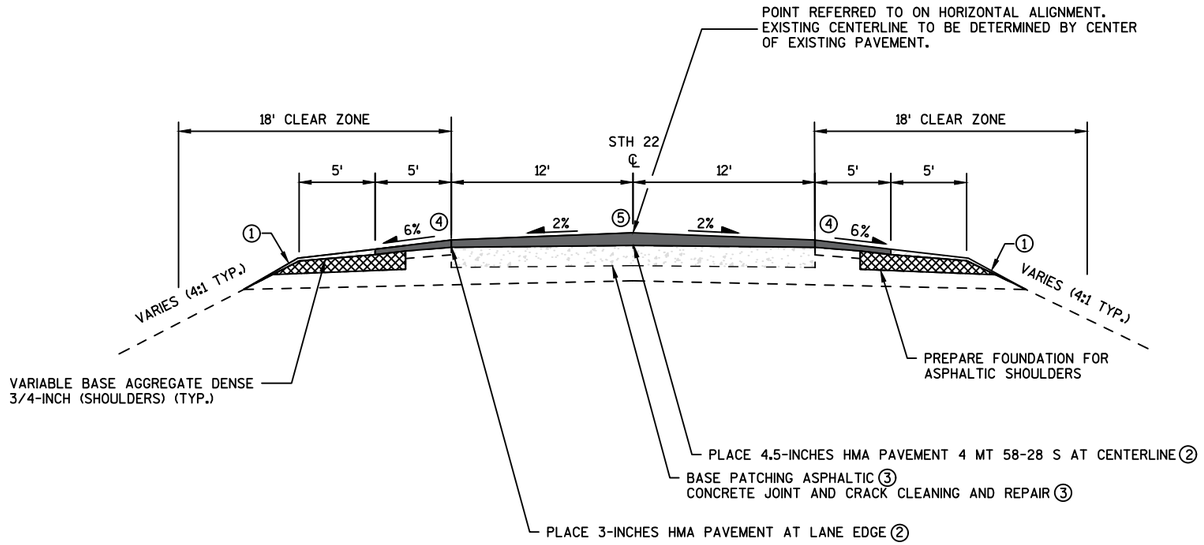
STA 18+95 TO STA 25+00
STA 43+92 TO STA 164+30



EXISTING TYPICAL SECTION STH 22

STA 315+66 TO STA 586+36

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	EXISTING TYPICAL SECTIONS	SHEET 4	E



PROPOSED TYPICAL SECTION STH 22

STA. 9+12 TO STA. 18+95

① 4:1 - WHEN EXISTING SIDESLOPE IS FLATTER THAN OR EQUAL TO 4:1

MATCH EXISTING - WHEN EXISTING SIDESLOPE IS STEEPER THAN 4:1 BUT FLATTER THAN 3:1 UNLESS OTHERWISE INDICATED IN THE CROSS SECTIONS

3:1 - WHEN EXISTING SIDESLOPE IS STEEPER THAN 3:1 UNLESS OTHERWISE INDICATED IN THE CROSS SECTIONS

② SEE HMA PAVEMENT SUMMARY TABLE FOR HMA TYPE AND LAYER THICKNESSES ON GENERAL NOTES SHEET

③ AS DIRECTED BY THE ENGINEER

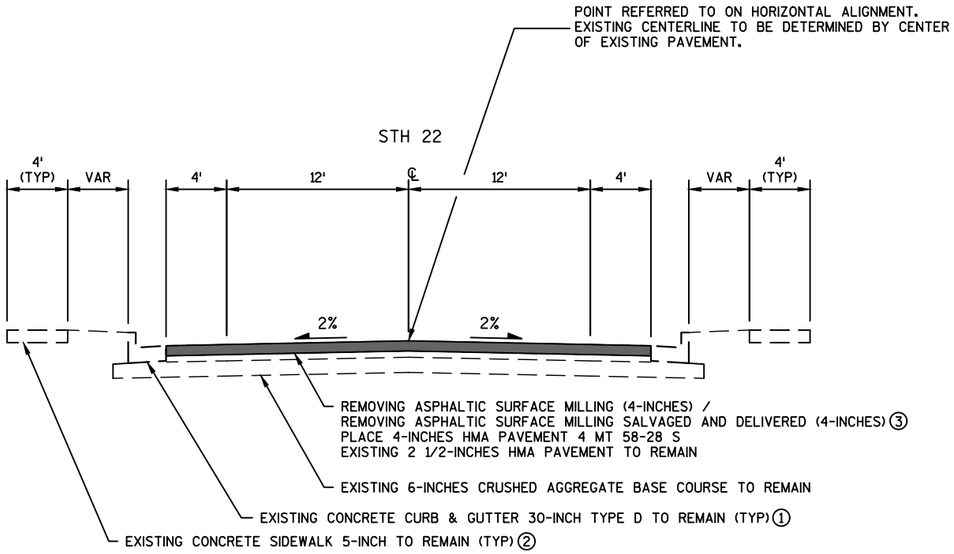
④ ASPHALTIC SHOULDER RUMBLE STRIP 2-LANE RURAL. (TYPE D REQUIRED)

⑤ ASPHALTIC CENTER LINE RUMBLE STRIP 2-LANE RURAL REQUIRED.

* MATCH EXISTING SUPERELEVATION, SEE PLAN VIEW DETAILS

** LANE: TRANSITION FROM 2% CROSS SLOPE TO EXISTING CROSS SLOPE IN THE 112.5' REMOVING PAVEMENT BUTT JOINT SECTION

SHOULDERS: TRANSITION FROM 6% CROSS SLOPE TO EXISTING CROSS SLOPE IN THE 112.5' REMOVING PAVEMENT BUTT JOINT SECTION



PROPOSED TYPICAL SECTION STH 22

STA. 25+00 TO STA. 39+66

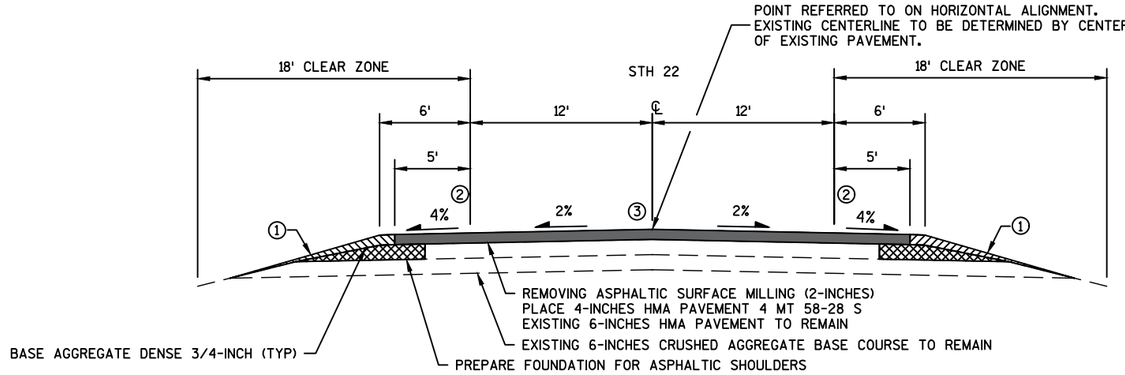
STA. 40+59 TO STA. 43+92

① SEE THE PLAN DETAILS FOR SPOT CONCRETE CURB AND GUTTER REPLACEMENT LOCATIONS

② REFER TO THE PLAN DETAILS AND CURB RAMP LAYOUT DETAILS FOR CURB RAMP REPLACEMENT/LAYOUT INFORMATION

③ SEE MISCELLANEOUS QUANTITIES AND SPECIAL PROVISIONS FOR MORE INFORMATTION

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PROPOSED TYPICAL SECTIONS	SHEET 5	E



① 4:1 - WHEN EXISTING SIDESLOPE IS FLATTER THAN OR EQUAL TO 4:1

MATCH EXISTING - WHEN EXISTING SIDESLOPE IS STEEPER THAN 4:1 BUT FLATTER THAN 3:1 UNLESS OTHERWISE INDICATED

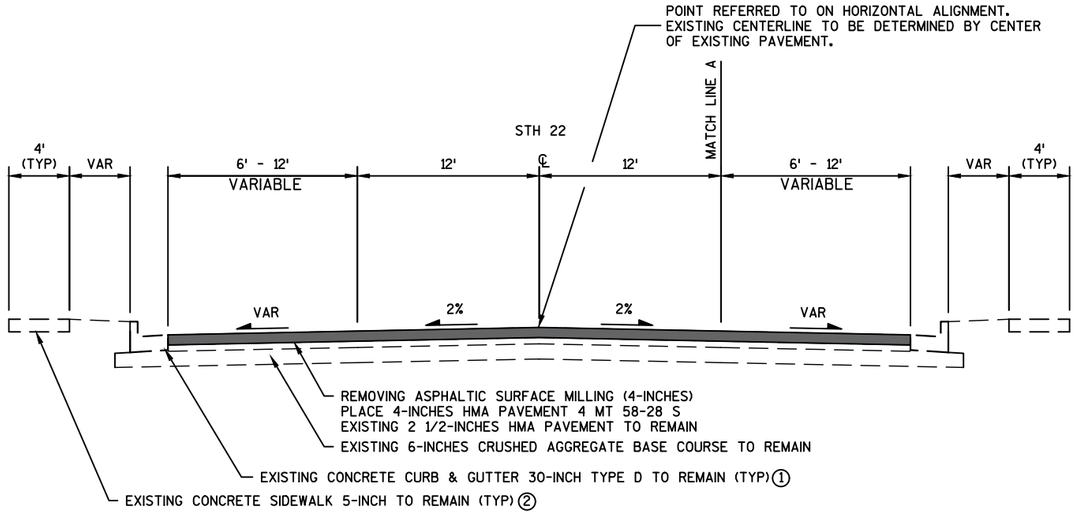
3:1 - WHEN EXISTING SIDESLOPE IS STEEPER THAN 3:1 UNLESS OTHERWISE INDICATED

② ASPHALTIC SHOULDER RUMBLE STRIP 2-LANE RURAL (TYPE 1) REQUIRED

③ ASPHALTIC CENTER LINE RUMBLE STRIP 2-LANE RURAL REQUIRED

PROPOSED TYPICAL SECTION STH 22

STA. 18+95 TO STA. 25+00
STA. 43+92 TO STA. 164+30

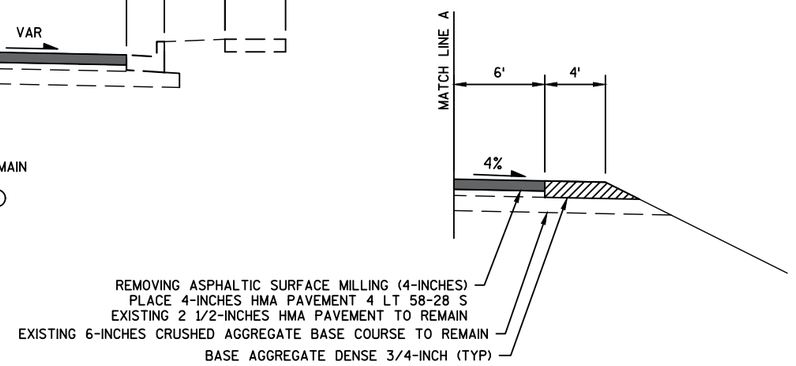


PROPOSED TYPICAL SECTION STH 22

STA. 164+30 TO STA. 225+50

① SEE THE PLAN DETAILS FOR SPOT CONCRETE CURB AND GUTTER REPLACEMENT LOCATIONS

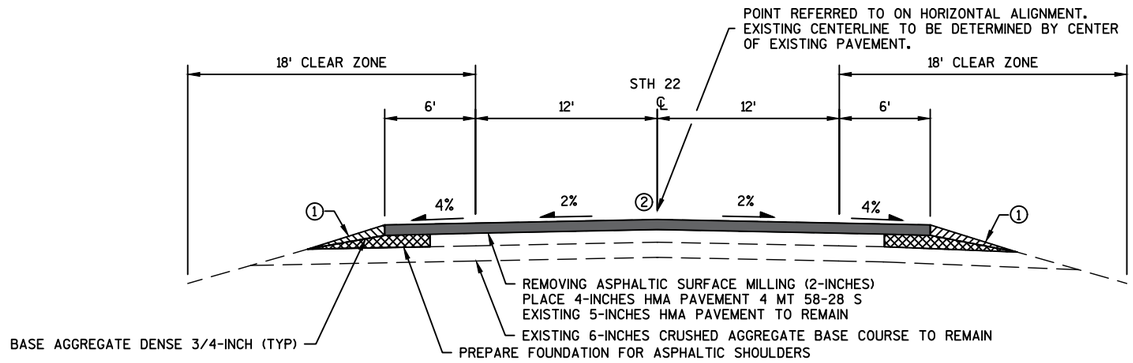
② REFER TO THE PLAN DETAILS AND CURB RAMP LAYOUT DETAILS FOR CURB RAMP REPLACEMENT/LAYOUT INFORMATION



STA. 220+25 TO STA. 225+50

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PROPOSED TYPICAL SECTIONS	SHEET 6	E

2



① 4:1 - WHEN EXISTING SIDESLOPE IS FLATTER THAN OR EQUAL TO 4:1

MATCH EXISTING - WHEN EXISTING SIDESLOPE IS STEEPER THAN 4:1 BUT FLATTER THAN 3:1 UNLESS OTHERWISE INDICATED

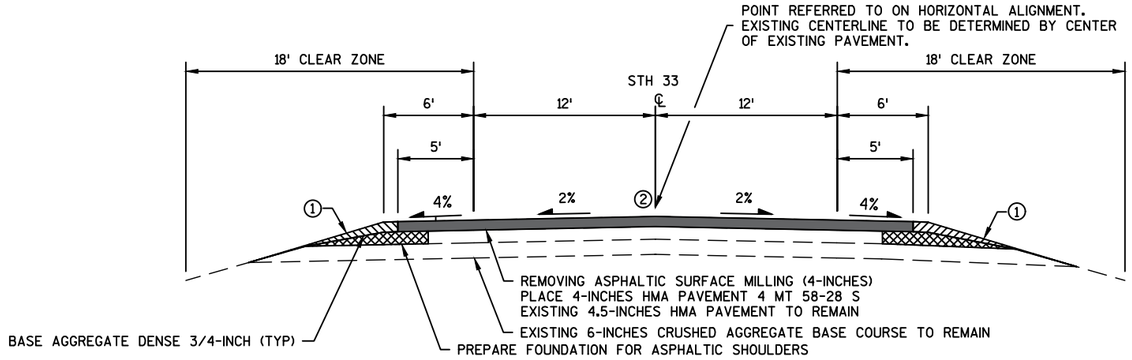
3:1 - WHEN EXISTING SIDESLOPE IS STEEPER THAN 3:1 UNLESS OTHERWISE INDICATED

② ASPHALTIC CENTER LINE RUMBLE STRIP 2-LANE RURAL REQUIRED

PROPOSED TYPICAL SECTION STH 22

STA. 225+50 TO STA. 315+66
STA. 315+66 TO STA. 586+40.41

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PROPOSED TYPICAL SECTIONS	SHEET 7	E



① 4:1 - WHEN EXISTING SIDESLOPE IS FLATTER THAN OR EQUAL TO 4:1

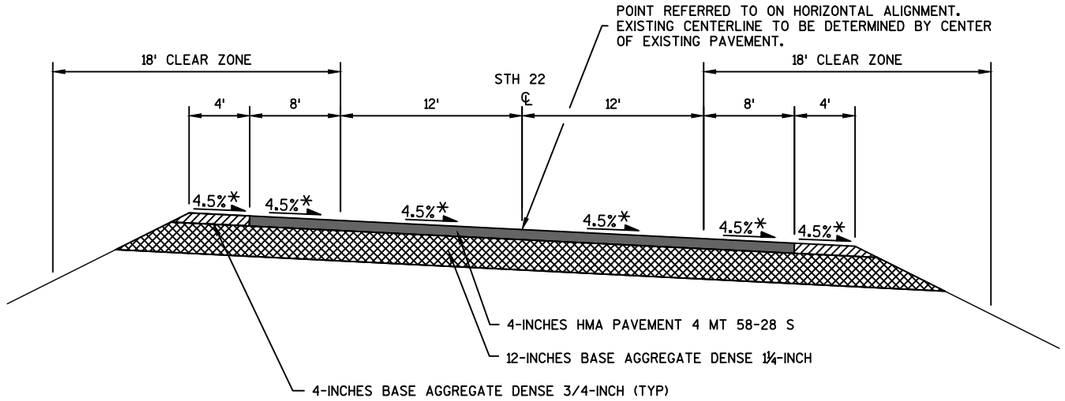
MATCH EXISTING - WHEN EXISTING SIDESLOPE IS STEEPER THAN 4:1 BUT FLATTER THAN 3:1 UNLESS OTHERWISE INDICATED

3:1 - WHEN EXISTING SIDESLOPE IS STEEPER THAN 3:1 UNLESS OTHERWISE INDICATED

② ASPHALTIC CENTER LINE RUMBLE STRIP 2-LANE RURAL REQUIRED

PROPOSED TYPICAL SECTION STH 33

STA. 12+75"A" TO STA. 18+12.61"A"



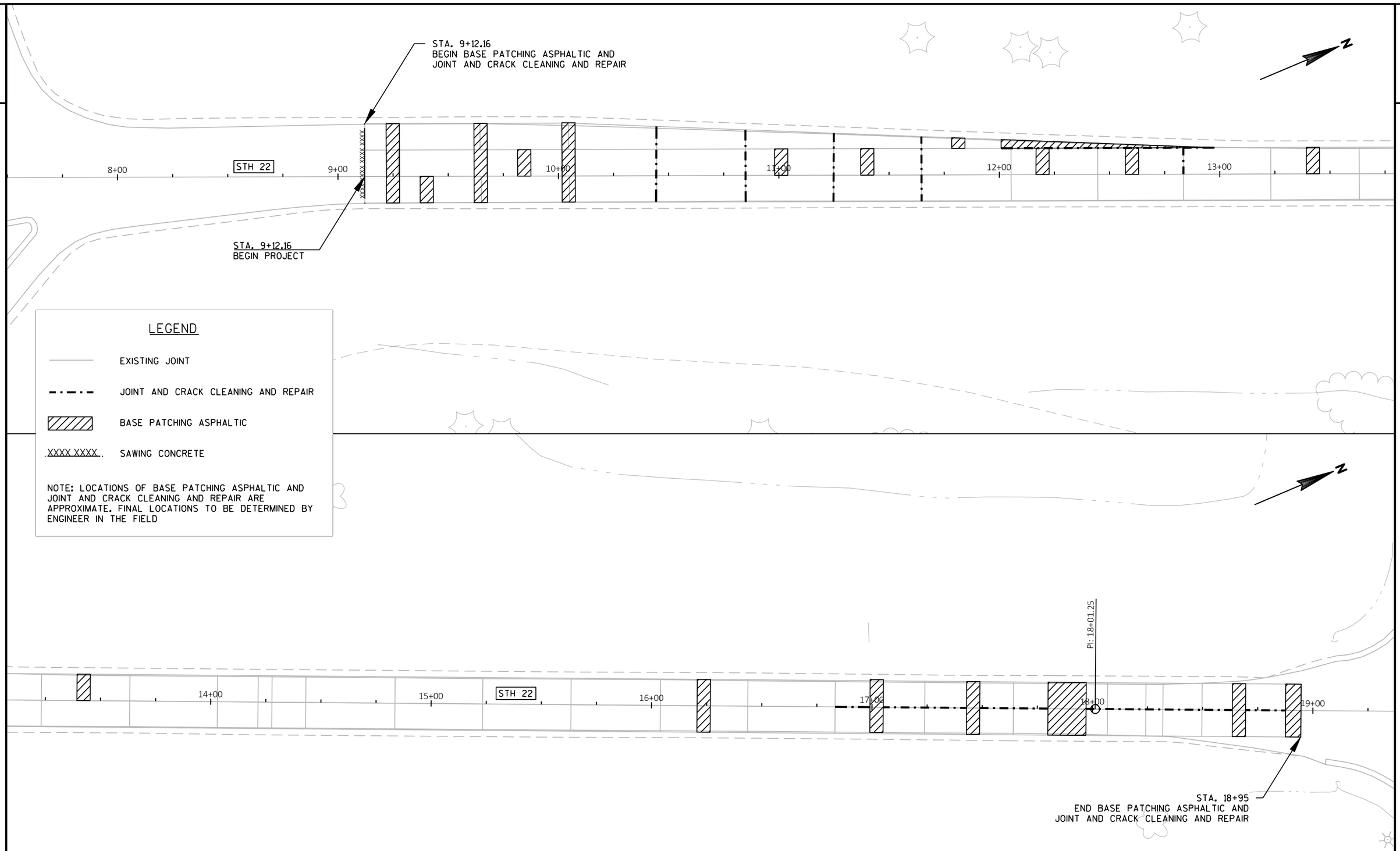
* FULL SUPER ELEVATION DISPLAYED. SEE SUPER ELEVATION TABLES FOR MORE INFORMATION.

PROPOSED TYPICAL SECTION STH 22

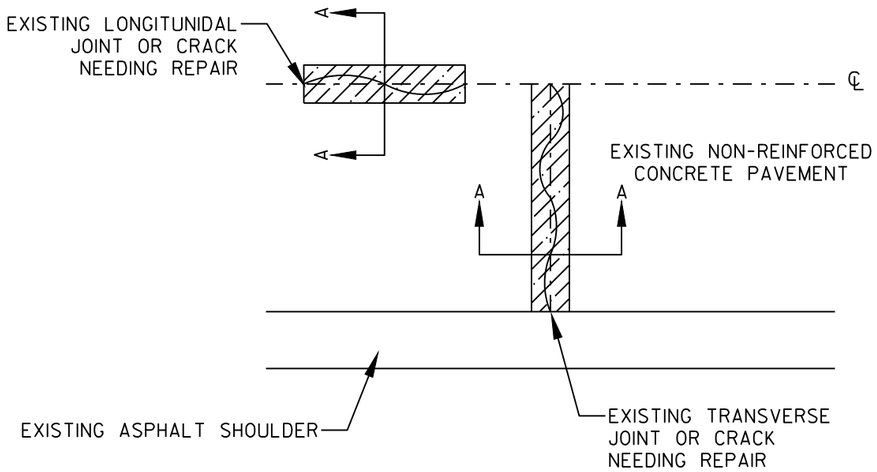
BRIDGE RECONSTRUCTION SECTION
STA. 224+93.59"BR" TO STA. 226+77.11"BR"

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PROPOSED TYPICAL SECTIONS	SHEET 8	E

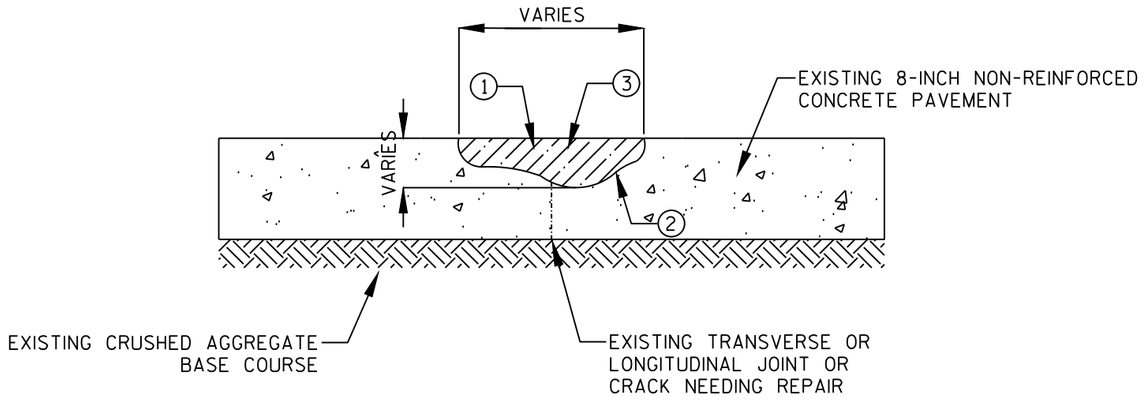
2



PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS	SHEET 9	E



PLAN VIEW



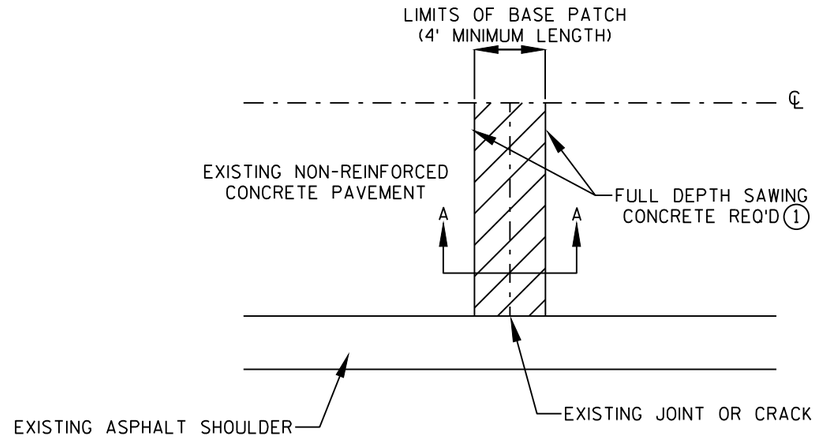
SECTION A-A

(1) REMOVE ALL UNSOUND AND DETERIORATED MATERIAL

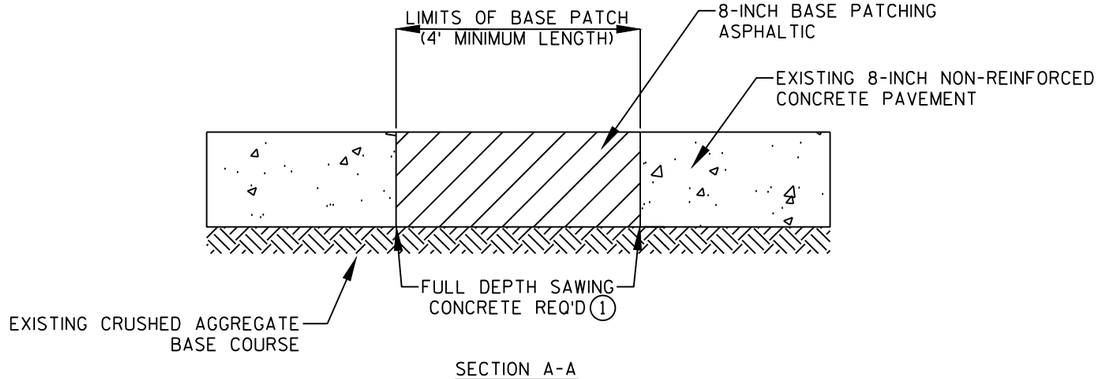
(2) BLOW OUT REPAIR AREAS WITH 80 PSI MINIMUM COMPRESSED AIR

(3) ASPHALTIC SURFACE WITH TACK COAT

CONCRETE JOINT AND CRACK CLEANING AND REPAIR



PLAN VIEW



SECTION A-A

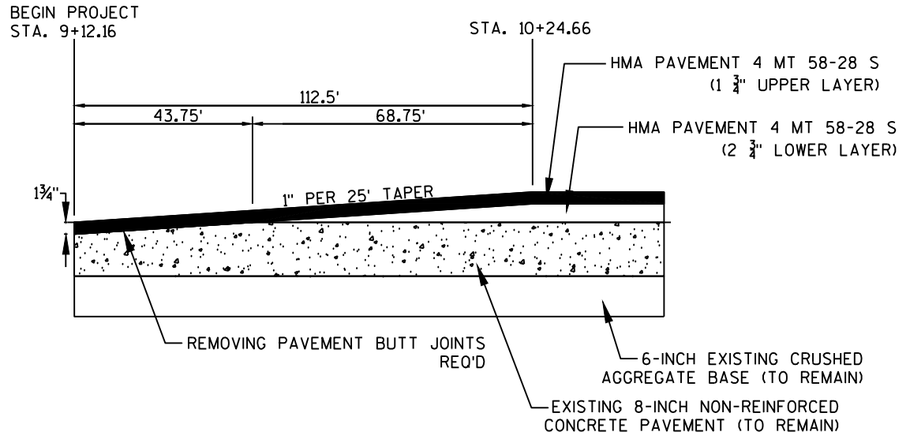
BASE PATCHING ASPHALTIC DETAIL

(1) PAID FOR SEPARATELY UNDER BID ITEM SAWING CONCRETE

SAW CUT AND REMOVE EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF THE BASE PATCH AREAS.

THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES

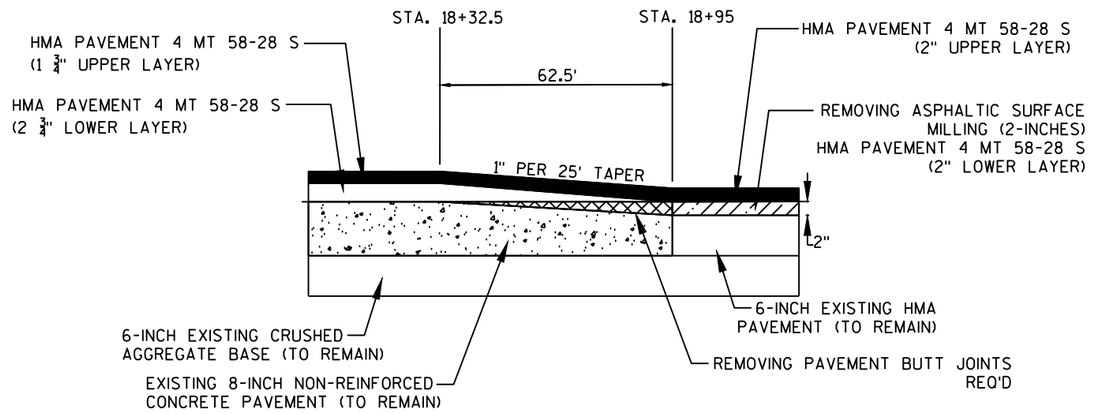
LENGTH OF REPAIRS MAY VARY, AS DIRECTED BY THE ENGINEER



DETAIL FOR CONCRETE SECTION
STA. 9+12.16 - STA. 10+24.66

NOTES: PAVEMENT THICKNESS SHOWN AT ℄

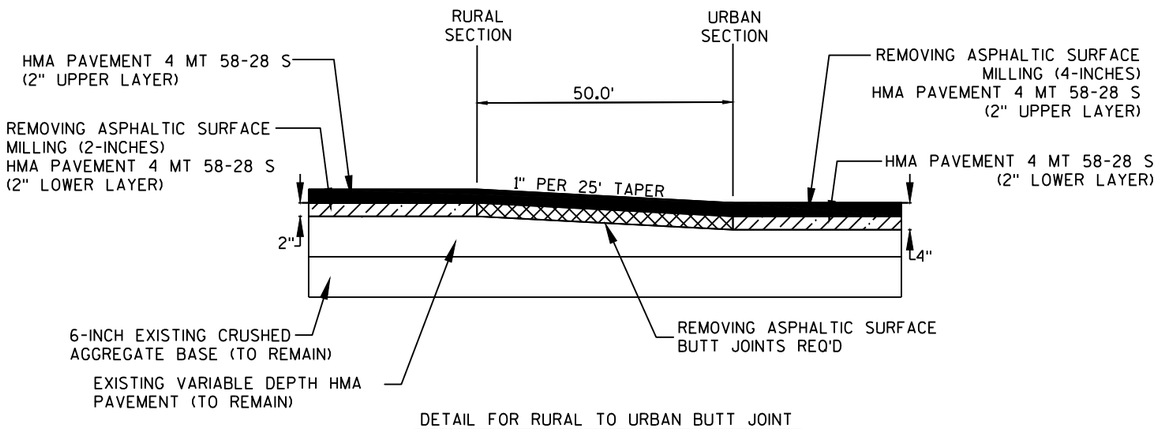
CROSS SLOPE TRANSITION BACK TO EXISTING ALSO TO HAPPEN WITHIN 112.5' TAPER



DETAIL FOR CONCRETE SECTION
STA. 18+32.5 - STA. 18+95

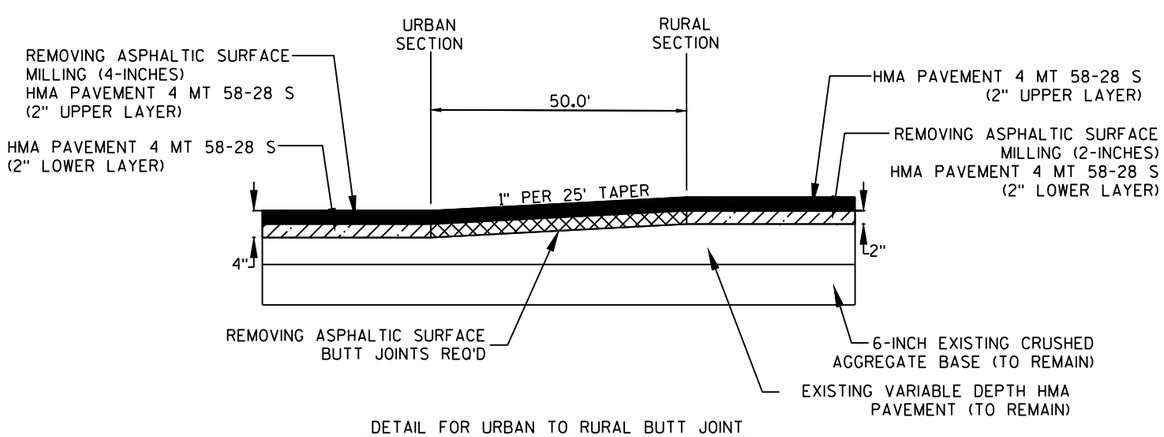
NOTES: PAVEMENT THICKNESS SHOWN AT ℄

CROSS SLOPE TRANSITION BACK TO EXISTING ALSO TO HAPPEN WITHIN 62.5' TAPER



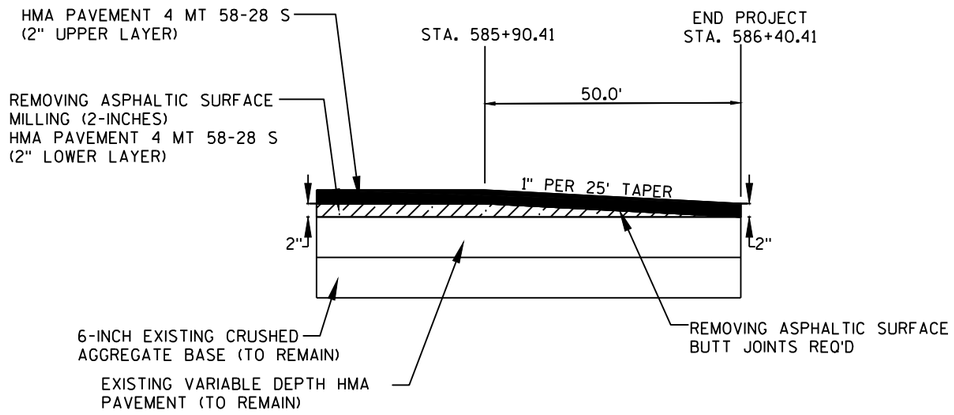
DETAIL FOR RURAL TO URBAN BUTT JOINT
STA. 24+20 - STA. 24+70
STA. 146+75 - STA. 147+25
STA. 314+00 - STA. 314+50

NOTES: PAVEMENT THICKNESS SHOWN AT ℄



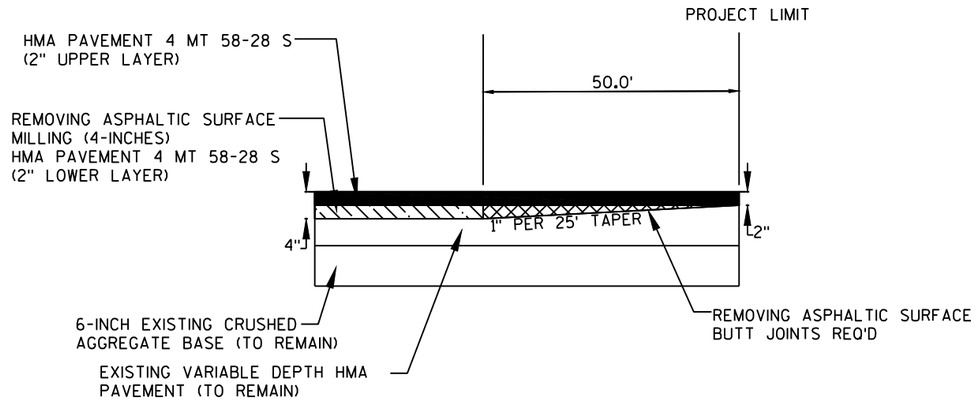
DETAIL FOR URBAN TO RURAL BUTT JOINT
STA. 46+50 - STA. 47+00
STA. 317+00 - STA. 317+50

NOTES: PAVEMENT THICKNESS SHOWN AT ℄



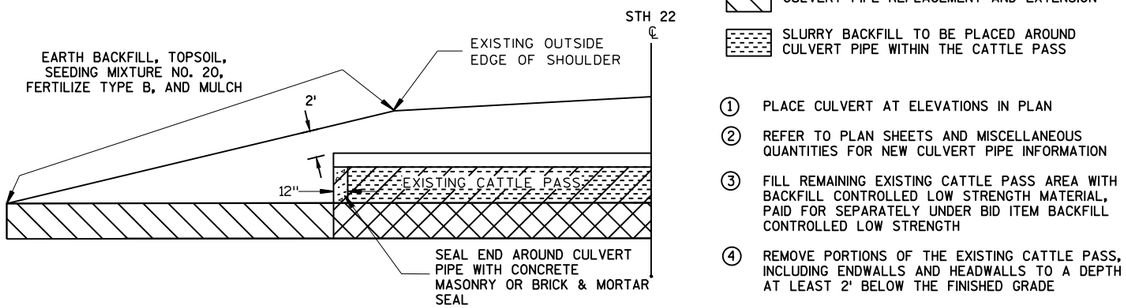
DETAIL FOR END OF PROJECT BUTT JOINT
STA. 585+90.41 - STA. 586+40.41

NOTES: PAVEMENT THICKNESS SHOWN AT ℄



DETAIL FOR STH 33 BUTT JOINT

NOTES: PAVEMENT THICKNESS SHOWN AT ℄



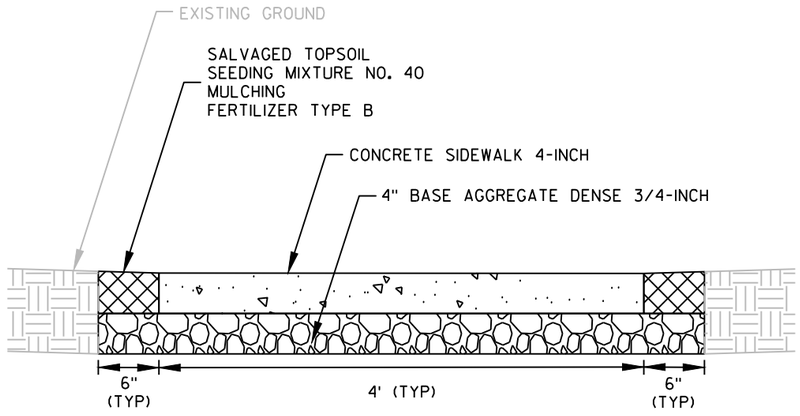
EXISTING CATTLE PASS

CULVERT PIPE REPLACEMENT AND EXTENSION

SLURRY BACKFILL TO BE PLACED AROUND CULVERT PIPE WITHIN THE CATTLE PASS

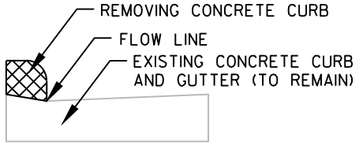
1. PLACE CULVERT AT ELEVATIONS IN PLAN
2. REFER TO PLAN SHEETS AND MISCELLANEOUS QUANTITIES FOR NEW CULVERT PIPE INFORMATION
3. FILL REMAINING EXISTING CATTLE PASS AREA WITH BACKFILL CONTROLLED LOW STRENGTH MATERIAL, PAID FOR SEPARATELY UNDER BID ITEM BACKFILL CONTROLLED LOW STRENGTH
4. REMOVE PORTIONS OF THE EXISTING CATTLE PASS, INCLUDING ENDWALLS AND HEADWALLS TO A DEPTH AT LEAST 2' BELOW THE FINISHED GRADE

DETAIL FOR CULVERT PIPE INSTALLATION IN ABANDONED CATTLE PASS
STA. 64+50
TYPICAL 1/2 SECTION, SYMMETRICAL ABOUT ℄

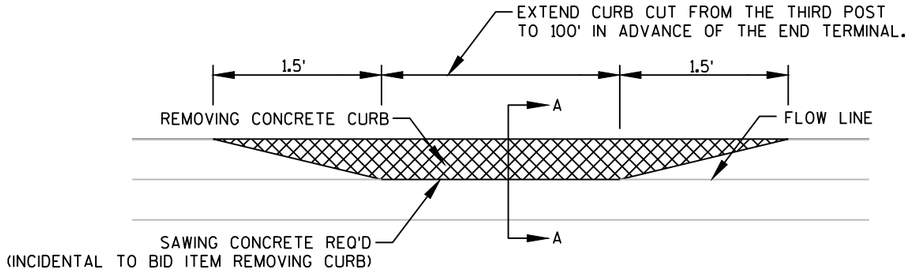


DETAIL FOR SIDEWALK PAVEMENT STRUCTURE

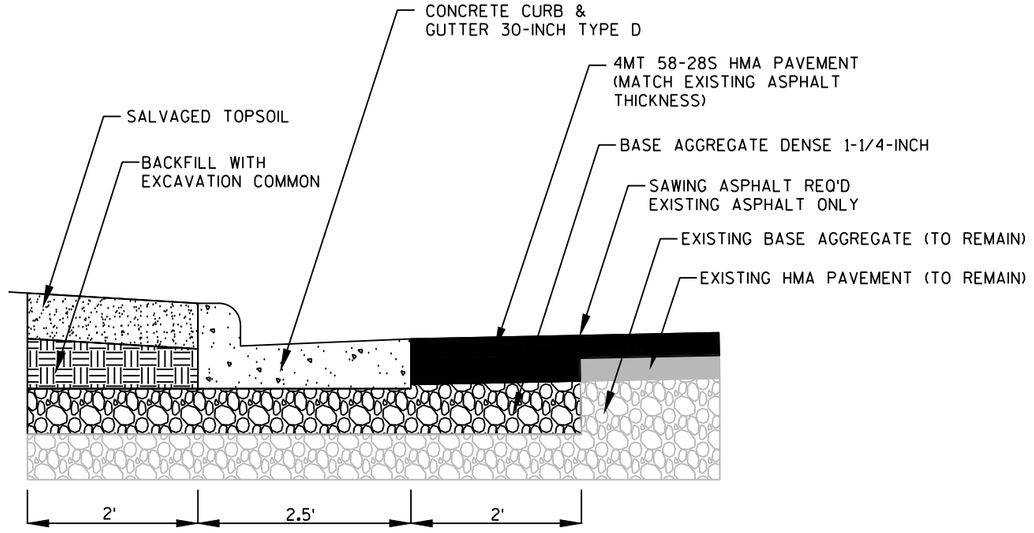
PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS	SHEET 12	E



SECTION A-A



DETAIL FOR REMOVING CURB HEAD AT END TERMINALS



DETAIL FOR CURB AND GUTTER AT CURB RAMP REPLACEMENT

2

NOTE: TO BE UTILIZED FOR TEMPORARY INSTALLATIONS IN WORK AREAS INVOLVING MILL AND OVERLAY OPERATIONS WITH UNEVEN LANES.

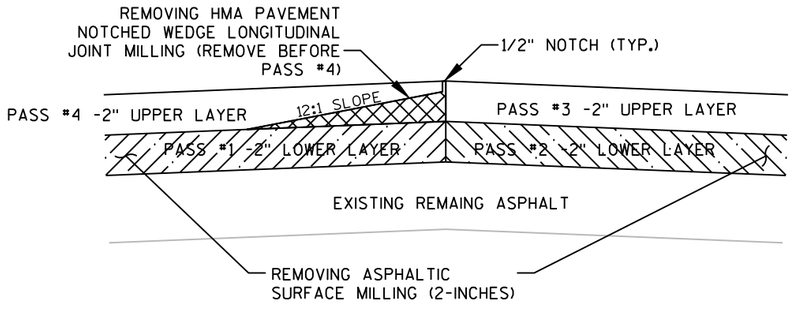
SIGNS SHALL BE PLACED 200' IN ADVANCE OF THE JOINT AND AT 1 MILE INCREMENTS OR AS THE ENGINEER DIRECTS.

"W" SERIES SIGNS HAVE AN ORANGE BACKGROUND. SIGNS WILL BE PAID AS TRAFFIC CONTROL SIGNS.

SEE S.D.D. "TRAFFIC CONTROL, DROP-OFF SIGNING" FOR MORE INFORMATION

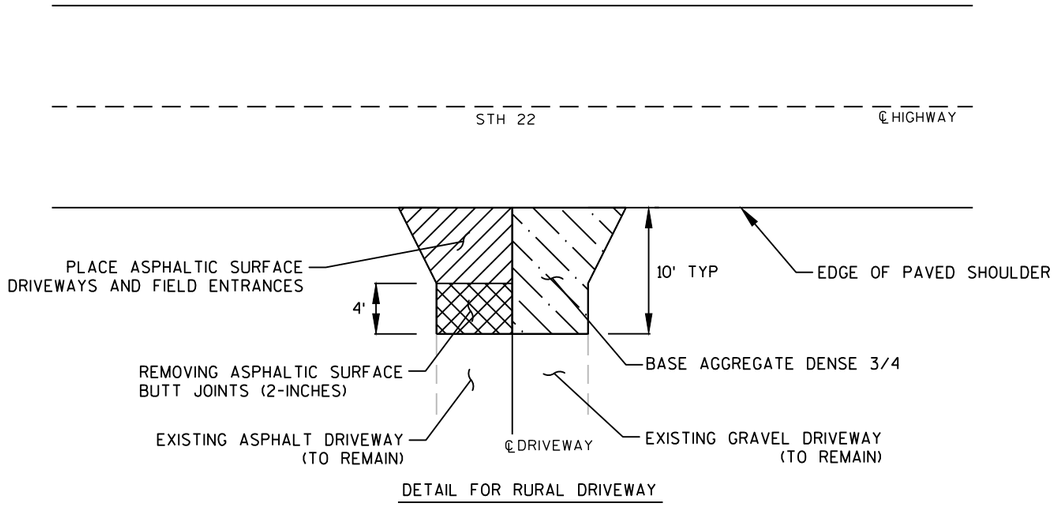


W8-11
48"X48"



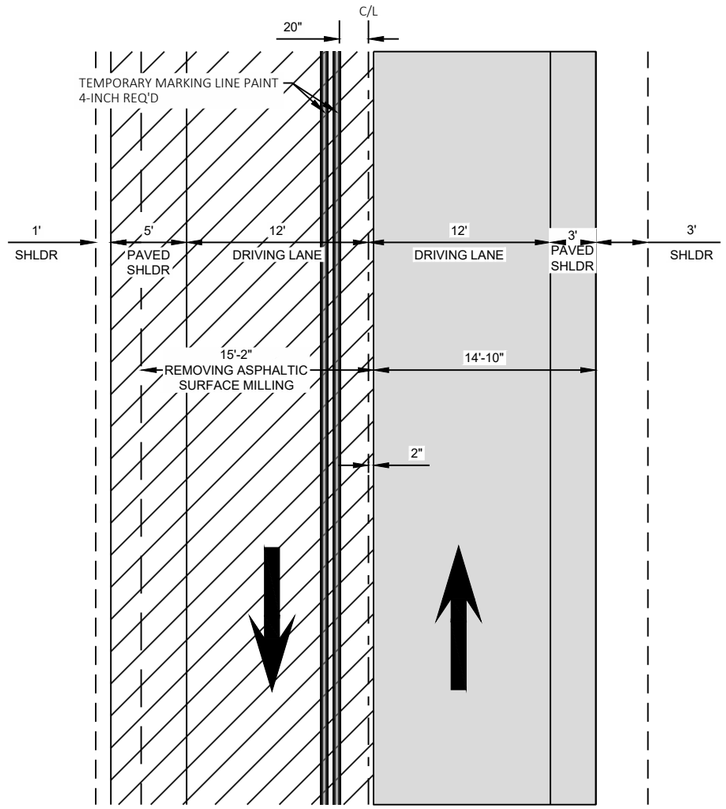
TYPICAL PAVEMENT CROSS SECTION OF TAPERED AND NOTCHED LOGITUDINAL JOINTS

RURAL ASPHALT OVERLAY SECTIONS



DETAIL FOR RURAL DRIVEWAY

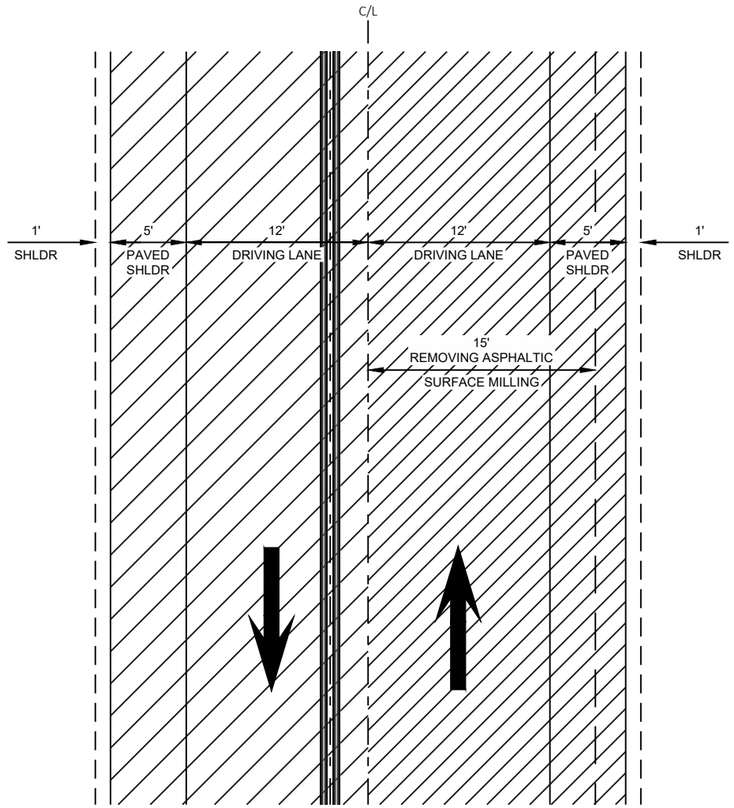
NOTE: LIMITS OF DRIVEWAYS TO BE DETERMINED BY THE ENGINEER



PLAN VIEW

EXISTING ASPHALTIC SURFACE TO REMAIN

FIRST PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS

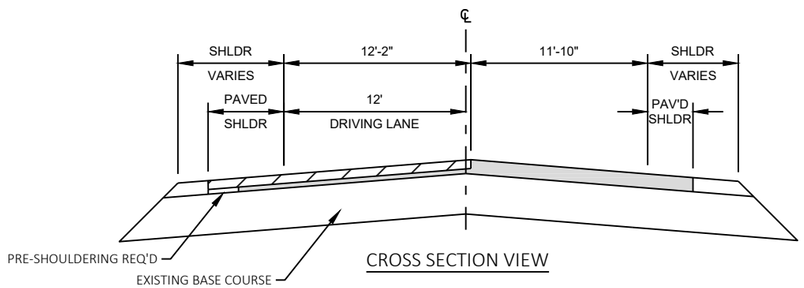


PLAN VIEW

EXISTING ASPHALTIC SURFACE TO REMAIN

FIRST PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS

SECOND PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS

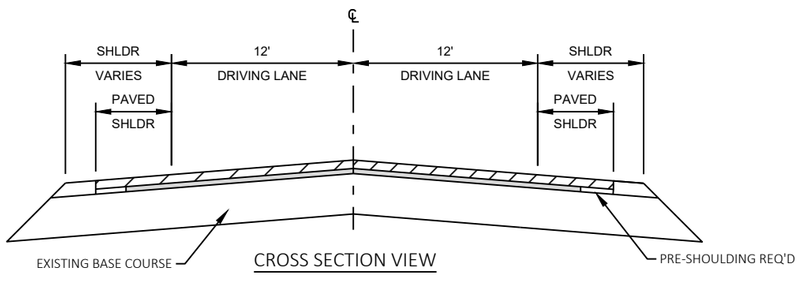


CROSS SECTION VIEW

FIRST PASS DETAIL

RURAL PAVING DETAIL

STA. 18+86 - STA. 25+00
STA. 43+92 - STA. 164+30
STA. 225+50 - STA. 315+66
STA. 315+66 - STA. 586+40.41



CROSS SECTION VIEW

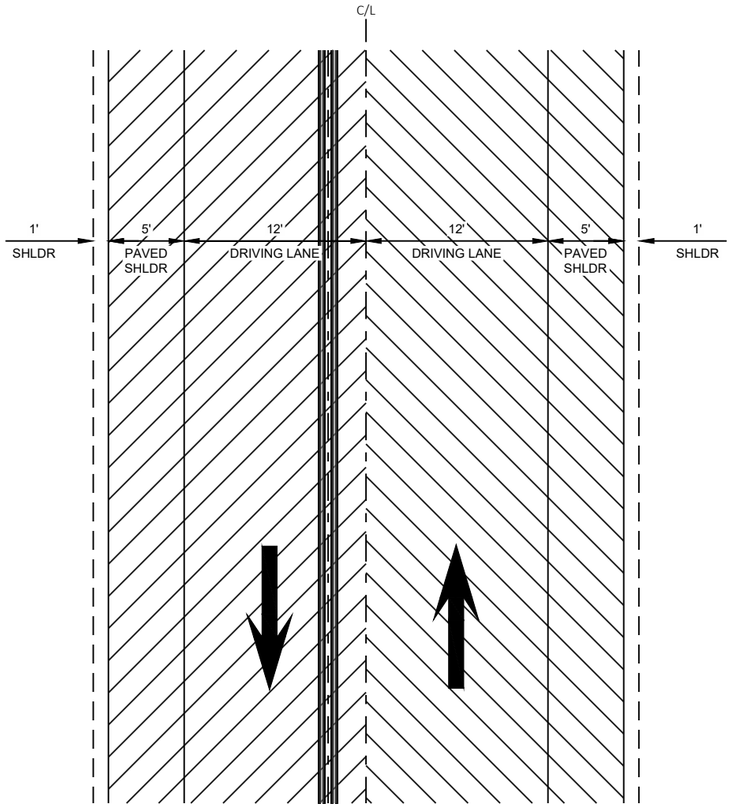
SECOND PASS DETAIL

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS	SHEET 14	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\021001-CD.DWG
LAYOUT NAME - RURAL PAVING DETAIL 1

PLOT DATE : 7/31/2019 9:27 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42



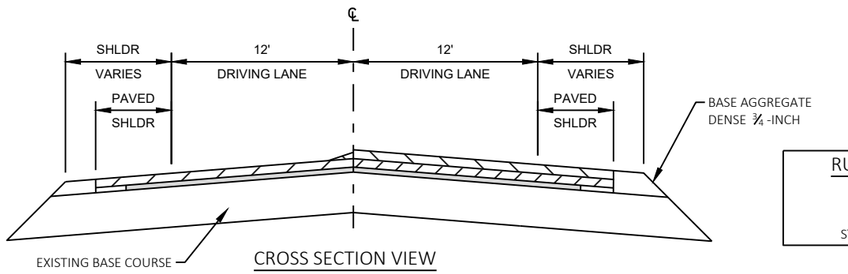
PLAN VIEW

EXISTING ASPHALTIC SURFACE TO REMAIN

FIRST PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS

SECOND PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS

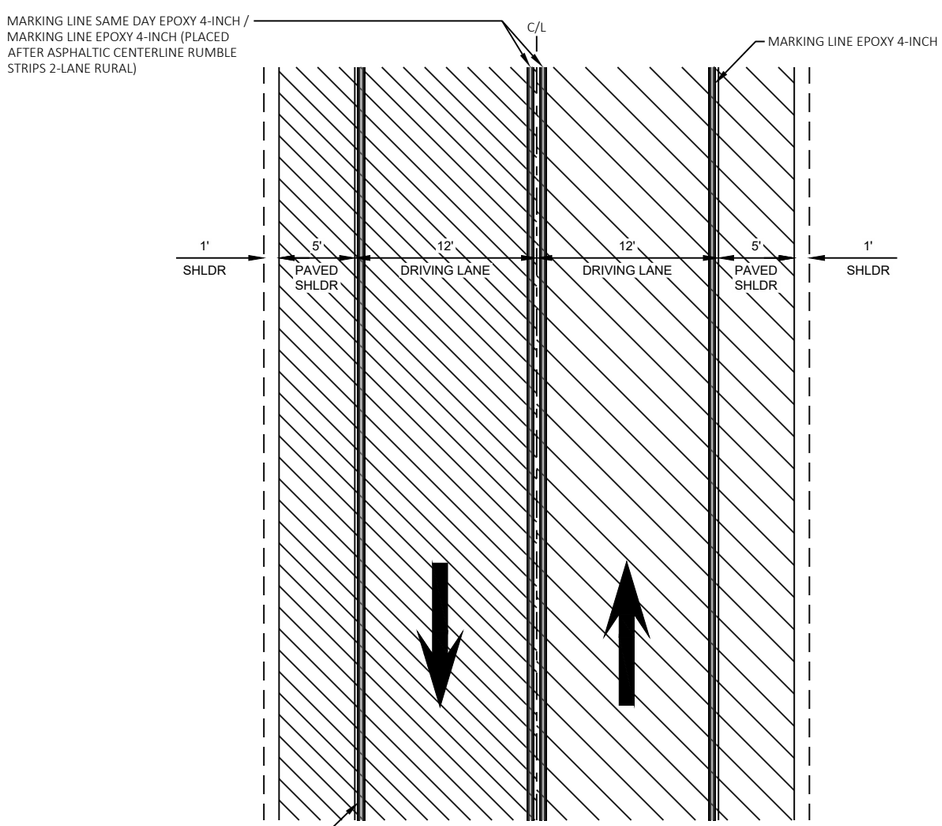
THIRD PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS



CROSS SECTION VIEW

THIRD PASS DETAIL

RURAL PAVING DETAIL
STA. 18+86 - STA. 25+00
STA. 43+92 - STA. 164+30
STA. 225+50 - STA. 315+66
STA. 315+66 - STA. 586+40.41



PLAN VIEW

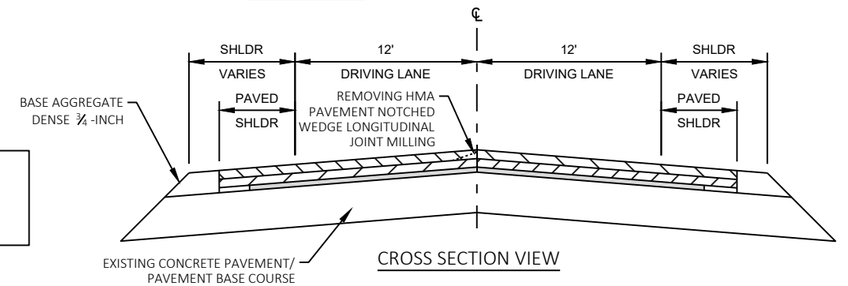
EXISTING ASPHALTIC SURFACE TO REMAIN

FIRST PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS

SECOND PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS

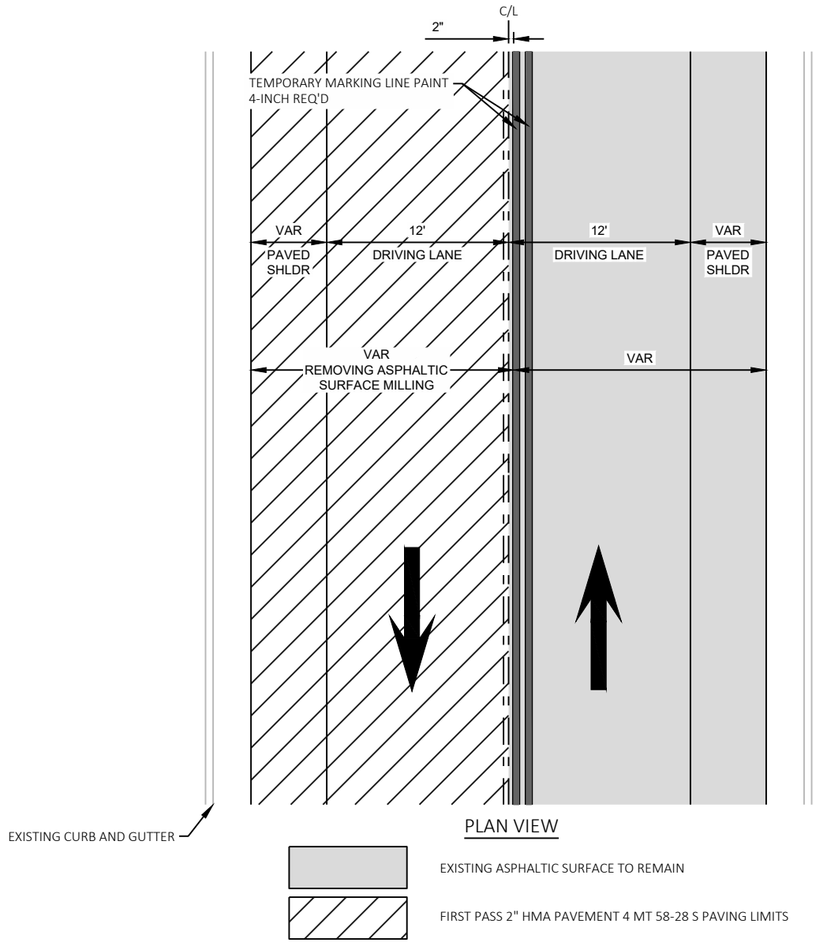
THIRD PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS

FOURTH PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS



CROSS SECTION VIEW

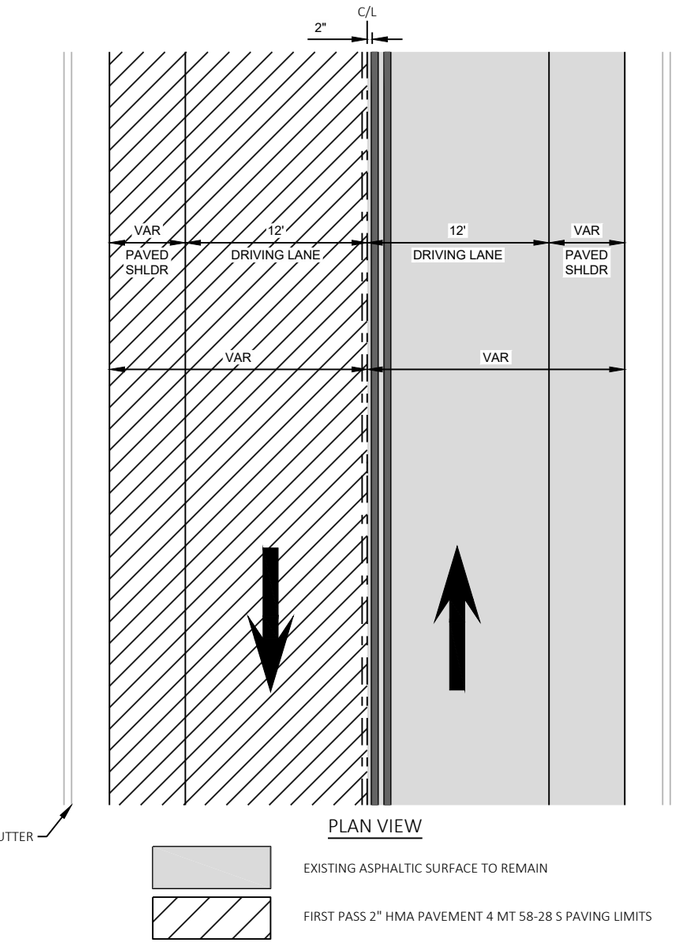
FOURTH PASS DETAIL



PLAN VIEW

EXISTING ASPHALTIC SURFACE TO REMAIN

FIRST PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS

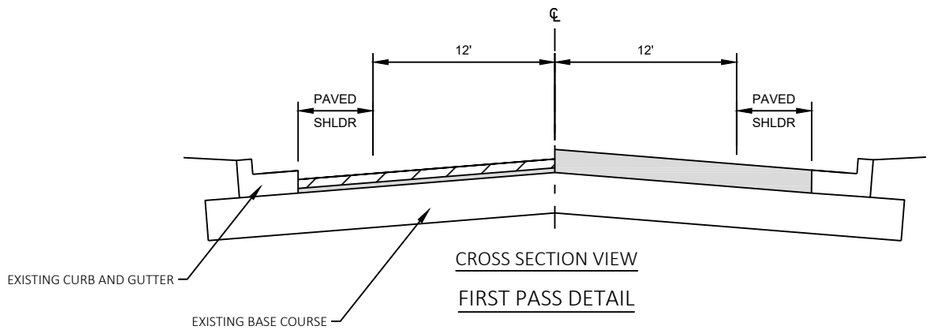


PLAN VIEW

EXISTING ASPHALTIC SURFACE TO REMAIN

FIRST PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS

SECOND PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS



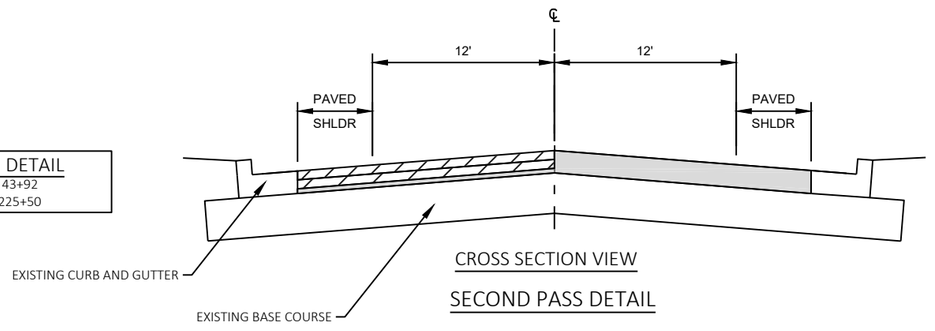
CROSS SECTION VIEW

FIRST PASS DETAIL

URBAN PAVING DETAIL

STA. 25+00 - STA. 43+92

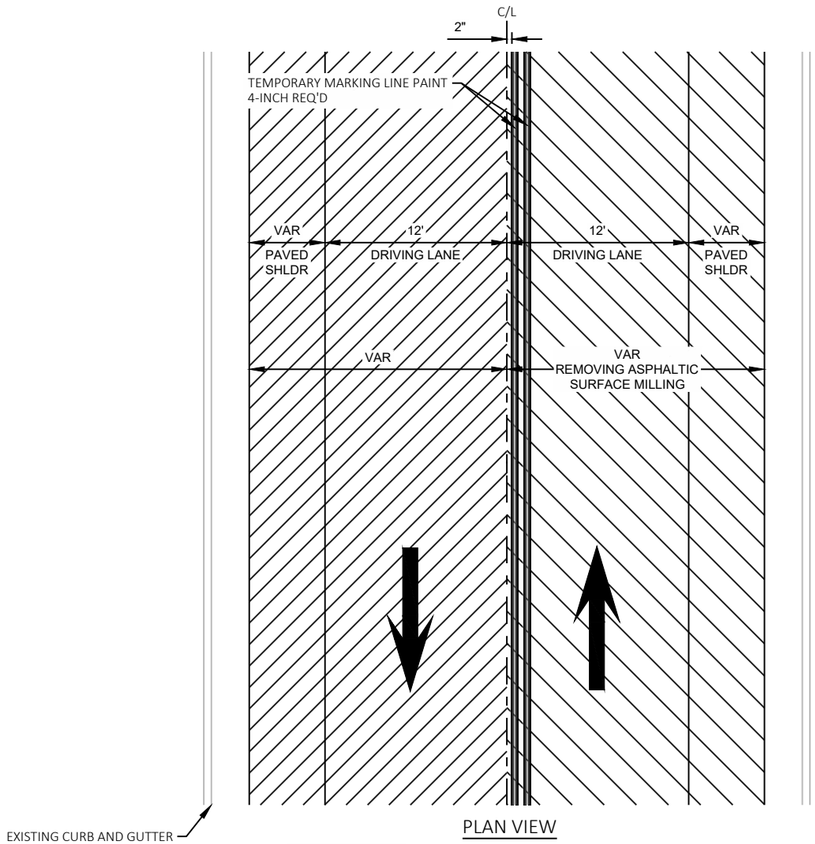
STA. 164+30 STA. 225+50



CROSS SECTION VIEW

SECOND PASS DETAIL

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS	SHEET 16	E



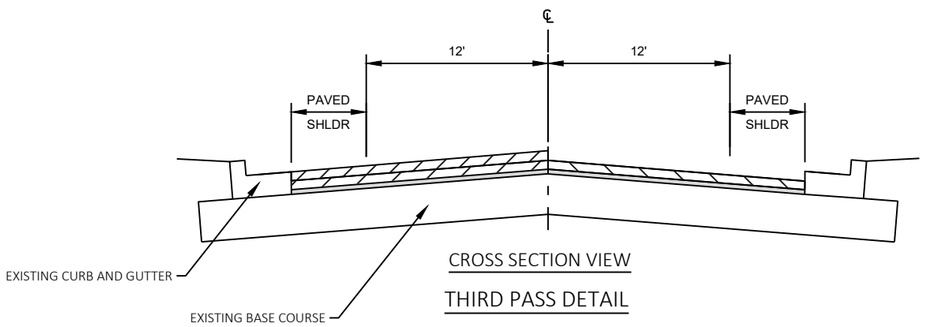
PLAN VIEW

EXISTING ASPHALTIC SURFACE TO REMAIN

FIRST PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS

SECOND PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS

THIRD PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS



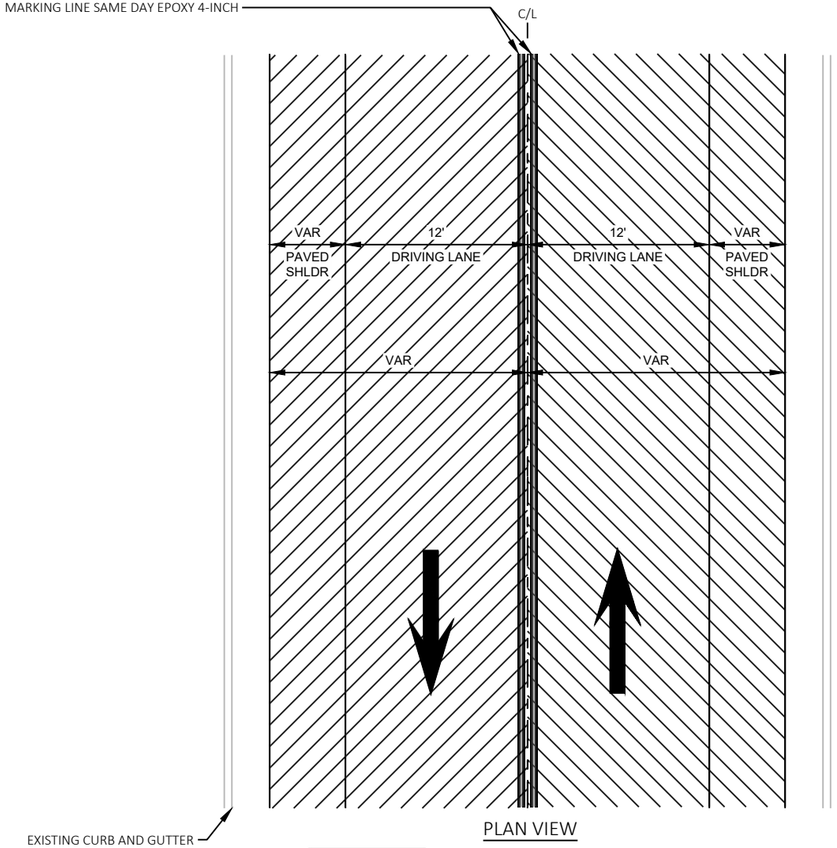
CROSS SECTION VIEW

THIRD PASS DETAIL

URBAN PAVING DETAIL

STA. 25+00 - STA. 43+92

STA. 164+30 - STA. 225+50



PLAN VIEW

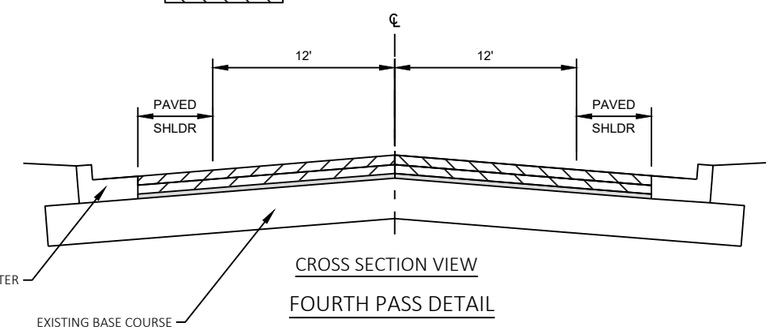
EXISTING ASPHALTIC SURFACE TO REMAIN

FIRST PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS

SECOND PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS

THIRD PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS

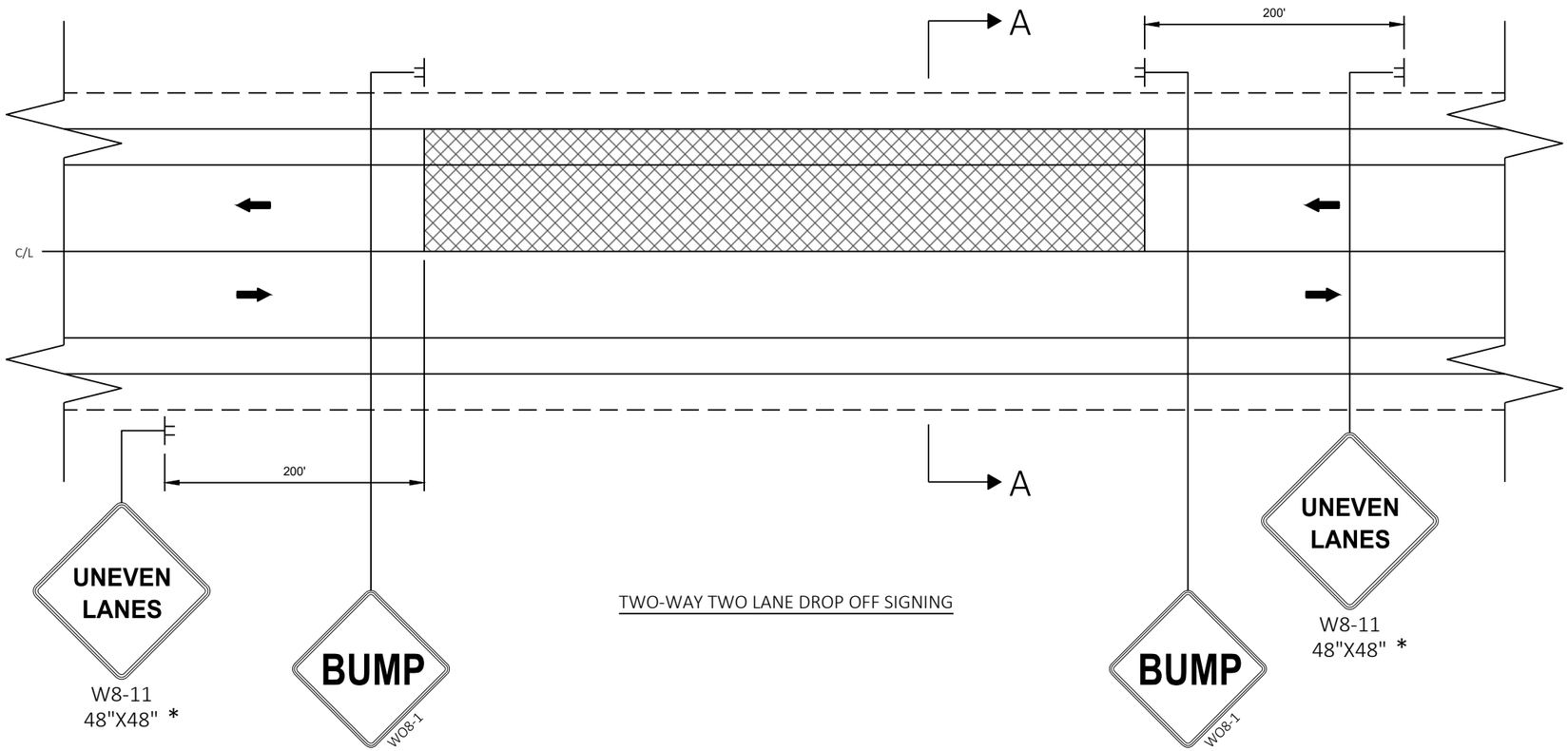
FOURTH PASS 2" HMA PAVEMENT 4 MT 58-28 S PAVING LIMITS



CROSS SECTION VIEW

FOURTH PASS DETAIL

2



TWO-WAY TWO LANE DROP OFF SIGNING

NOTES:

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

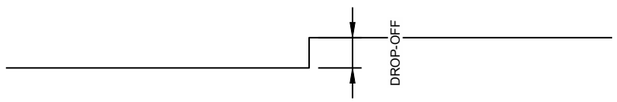
*IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE THROUGH THE WORK ZONE.

LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

WORK AREA WITH DROP-OFF



SECTION A-A

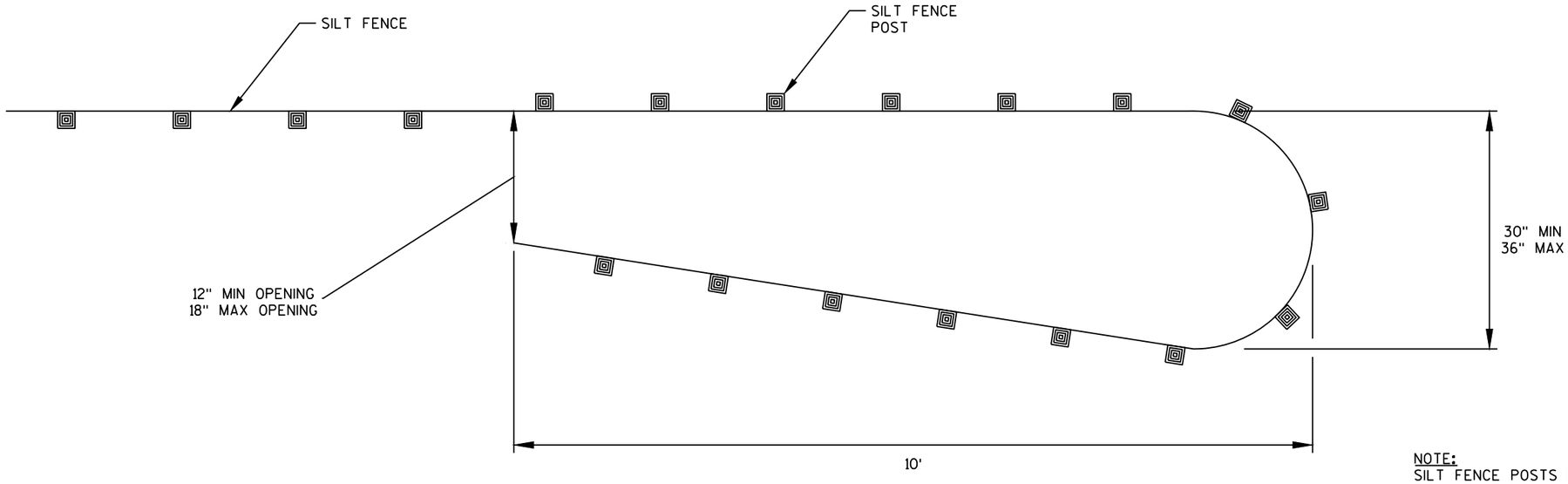
OR



SECTION A-A

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS	SHEET 18	E

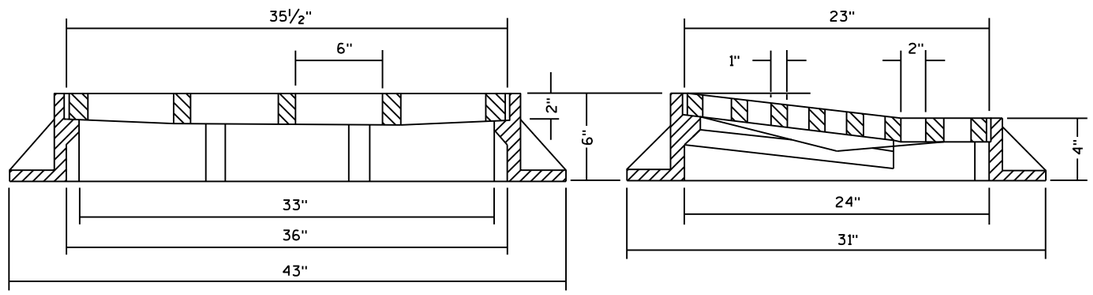
2



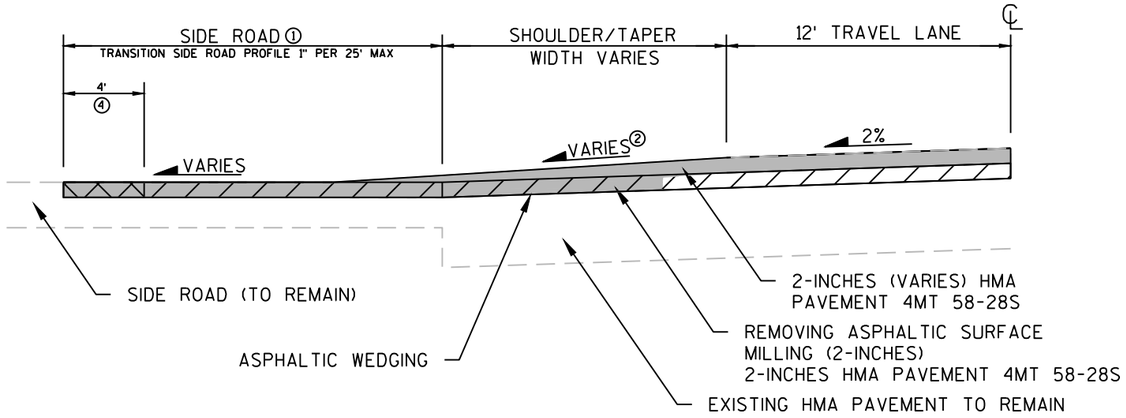
SILT FENCE TURN-AROUND DETAIL

TO BE PLACED AT ALL ENDS OF SILT FENCE

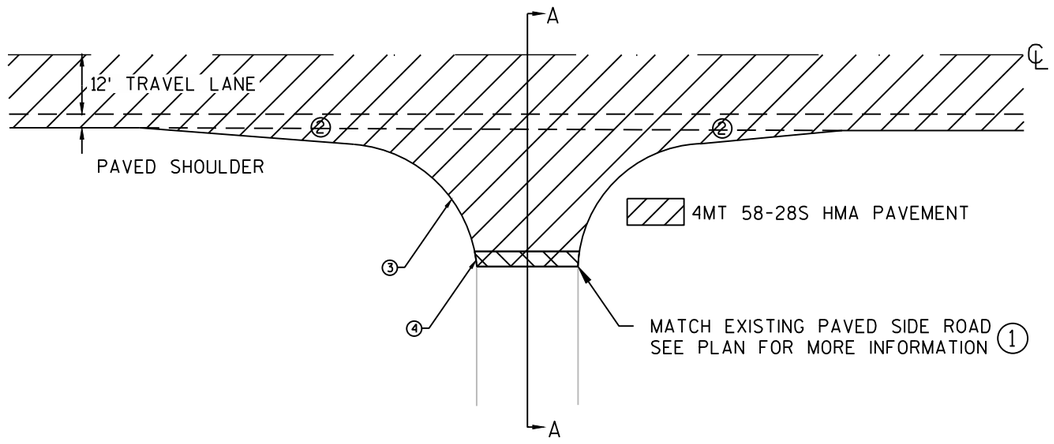
NOTE:
SILT FENCE POSTS FOR THE TURN-AROUND SHOULD BE PLACED ON THE OUTSIDE OF THE TURN-AROUND



INLET COVERS TYPE DW



SECTION A-A



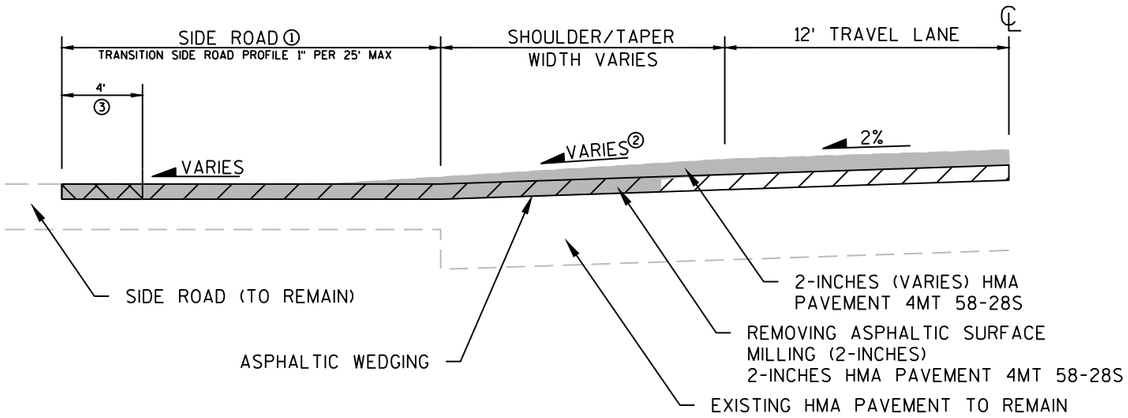
DETAIL FOR RURAL PAVED SIDE ROAD WITHOUT CONCRETE CURB AND GUTTER

① LIMITS DETERMINED BY THE ENGINEER

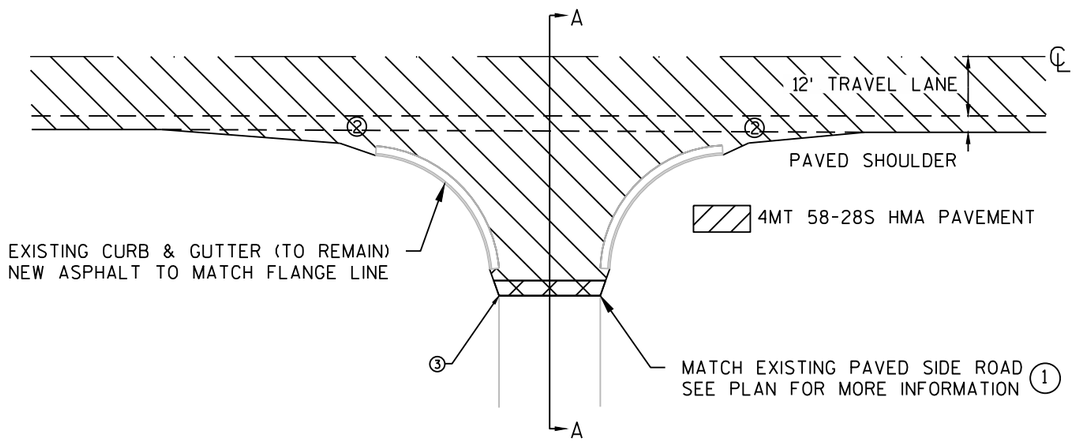
② TRANSITION SHOULDER SLOPE PRIOR TO INTERSECTION TO MATCH SIDE ROAD PROFILE

③ MATCH EXISTING EDGE OF PAVEMENT ALONG THE SIDE ROAD

④ 4' REMOVING ASPHALTIC SURFACE BUTT JOINTS (2-INCHES)



SECTION A-A

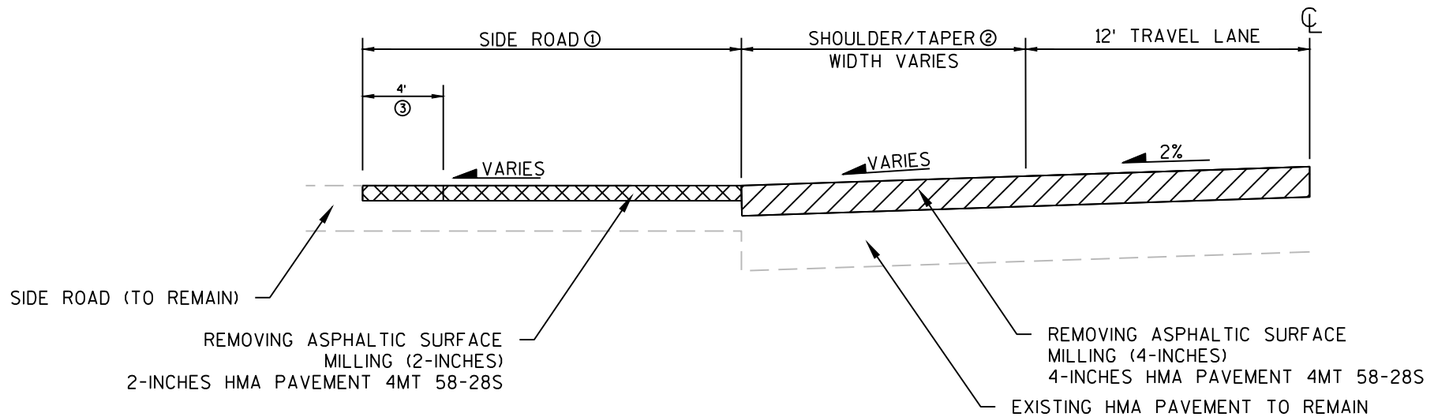


DETAIL FOR RURAL PAVED SIDE ROAD WITH CONCRETE CURB AND GUTTER

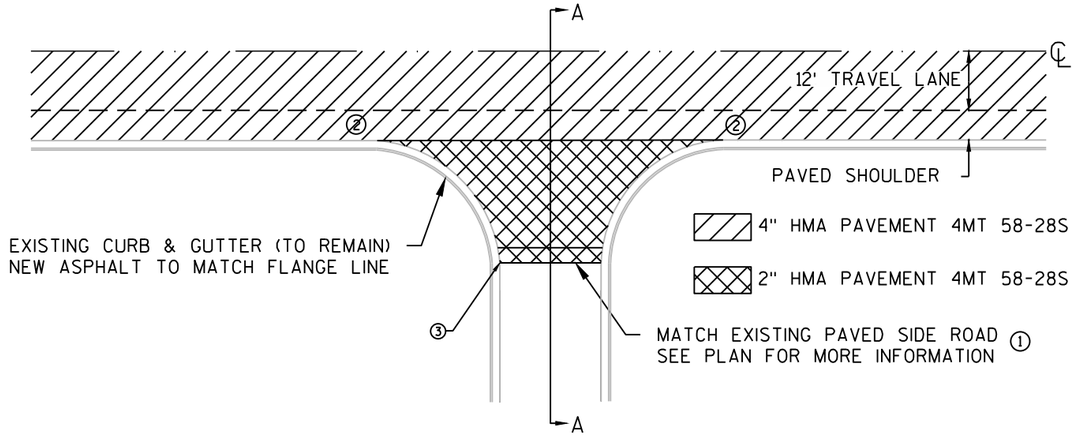
① LIMITS DETERMINED BY THE ENGINEER

② TRANSITION SHOULDER SLOPE PRIOR TO INTERSECTION TO MATCH SIDE ROAD PROFILE

③ 4' REMOVING ASPHALTIC SURFACE BUTT JOINTS (2-INCHES)



SECTION A-A

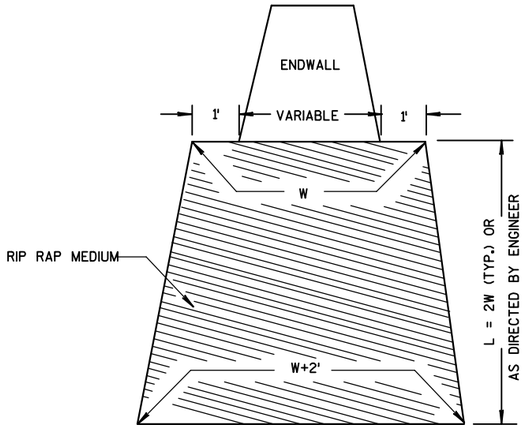


DETAIL FOR URBAN PAVED SIDE ROAD WITH CONCRETE CURB AND GUTTER

① LIMITS DETERMINED BY THE ENGINEER

② TRANSITION SHOULDER AND SIDE ROAD CROSS SLOPE TO MATCH THE EXISTING CONCRETE CURB AND GUTTER FLANGE LINE. WEDGE ASPHALT SURFACE AS NECESSARY TO achieve BEST FIT

③ 4' REMOVING ASPHALTIC SURFACE BUTT JOINTS (2-INCHES)

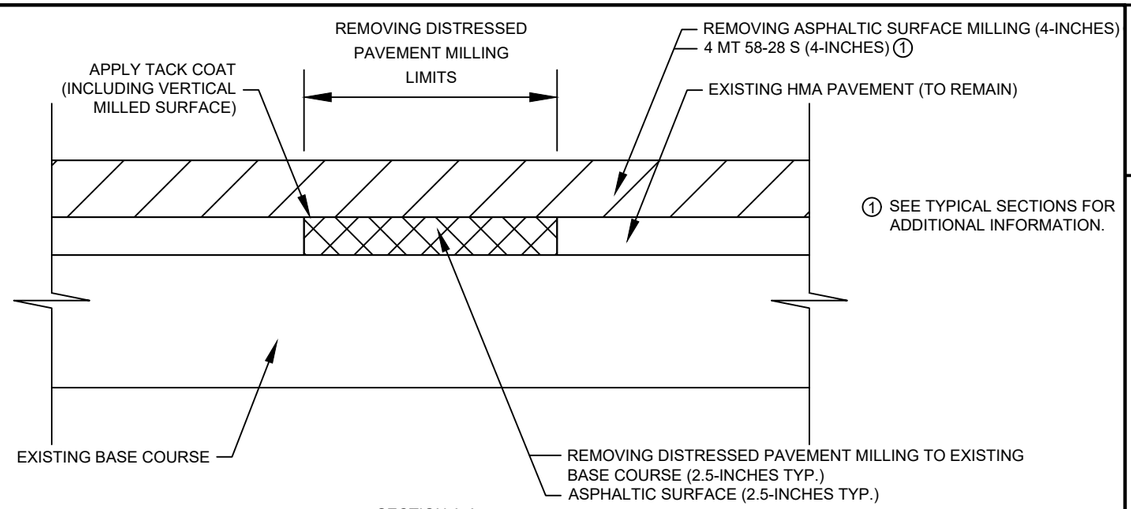


RIP RAP TREATMENT AT CULVERTS

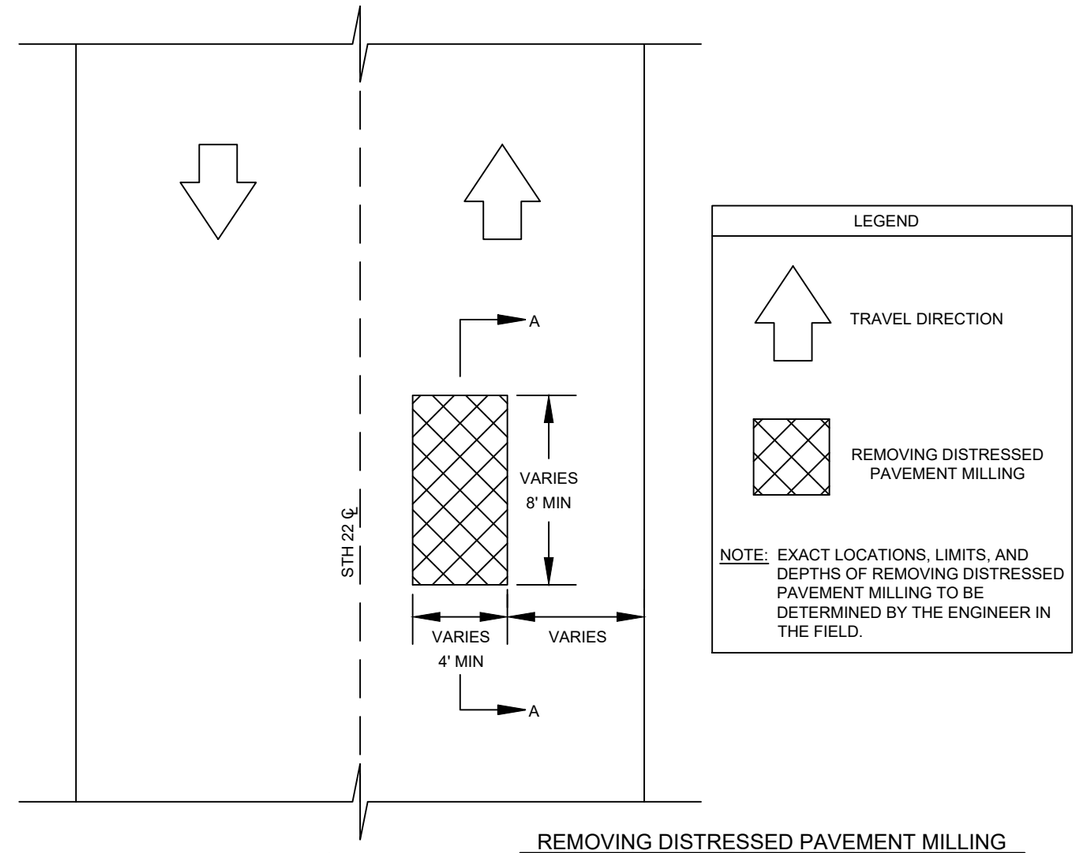
RUNOFF COEFFICIENT TABLE

	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 = 52.6 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 4.3 ACRES



SECTION A-A



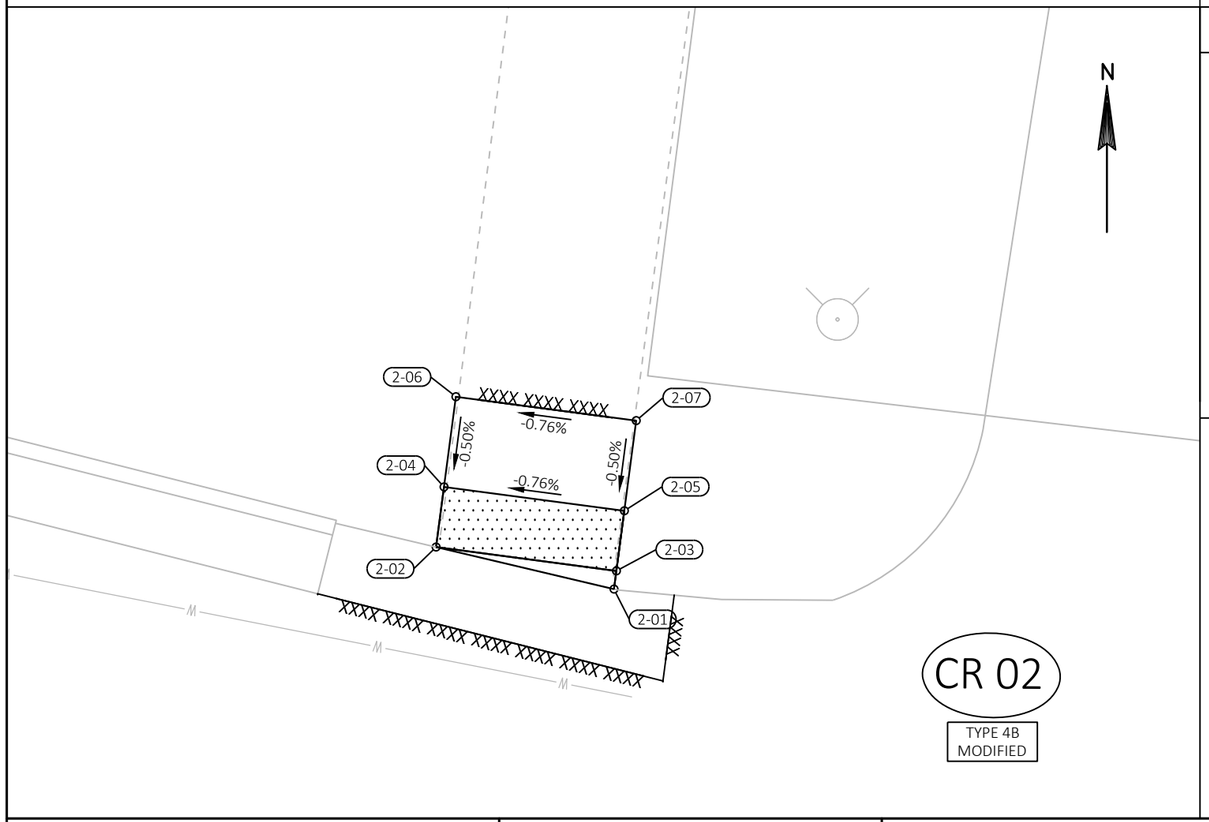
PLAN VIEW

REMOVING DISTRESSED PAVEMENT MILLING

STA 24+70 - STA 39+65
STA 39+65 - STA 46+50
STA 147+25 - STA 226+62

CURB RAMP DETAILS: DODGE ST NORTHEAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
2-01	30+27.74	112.89'	RT	810.53	377567.72	577545.50
2-02	30+26.73	106.95'	RT	810.49	377569.11	577539.63
2-03	30+28.33	112.73'	RT	810.53	377568.32	577545.58
2-04	30+28.66	106.42'	RT	810.50	377571.09	577539.89
2-05	30+30.25	112.20'	RT	810.54	377570.31	577545.84
2-06	30+31.55	105.62'	RT	810.51	377574.07	577540.28
2-07	30+33.15	111.40'	RT	810.56	377573.28	577546.23

CURB RAMP DETAILS: DODGE ST SOUTHEAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
1-01	29+99.54	118.96'	RT	811.53	377539.39	577540.10
1-02	29+97.92	115.26'	RT	811.51	377539.33	577536.05
1-03	29+98.99	119.11'	RT	811.54	377538.82	577540.02
1-04	29+95.99	115.79'	RT	811.55	377537.35	577535.80
1-05	29+97.06	119.65'	RT	811.58	377536.83	577539.76
1-06	29+93.10	116.59'	RT	811.61	377534.38	577535.41
1-07	29+94.17	120.45'	RT	811.64	377533.86	577539.37



CR 02

TYPE 4B
MODIFIED

LEGEND

RIGHT OF WAY (R/W)

SLOPE INTERCEPT (SI)

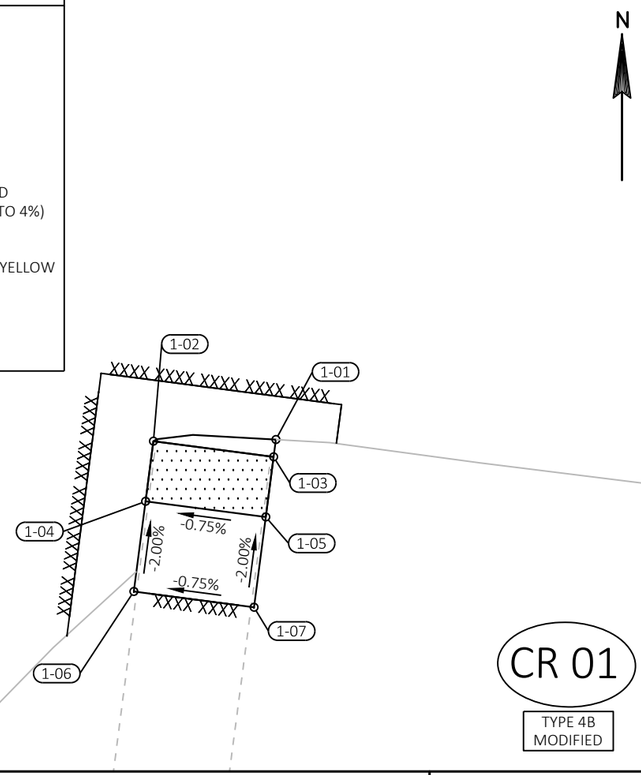
TEMPORARY LIMITED EASEMENT (TLE)

SAWING ASPHALT
SAWING CONCRETE

CONCRETE CURB & GUTTER 30-INCH TYPE D
(GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)

CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B



CR 01

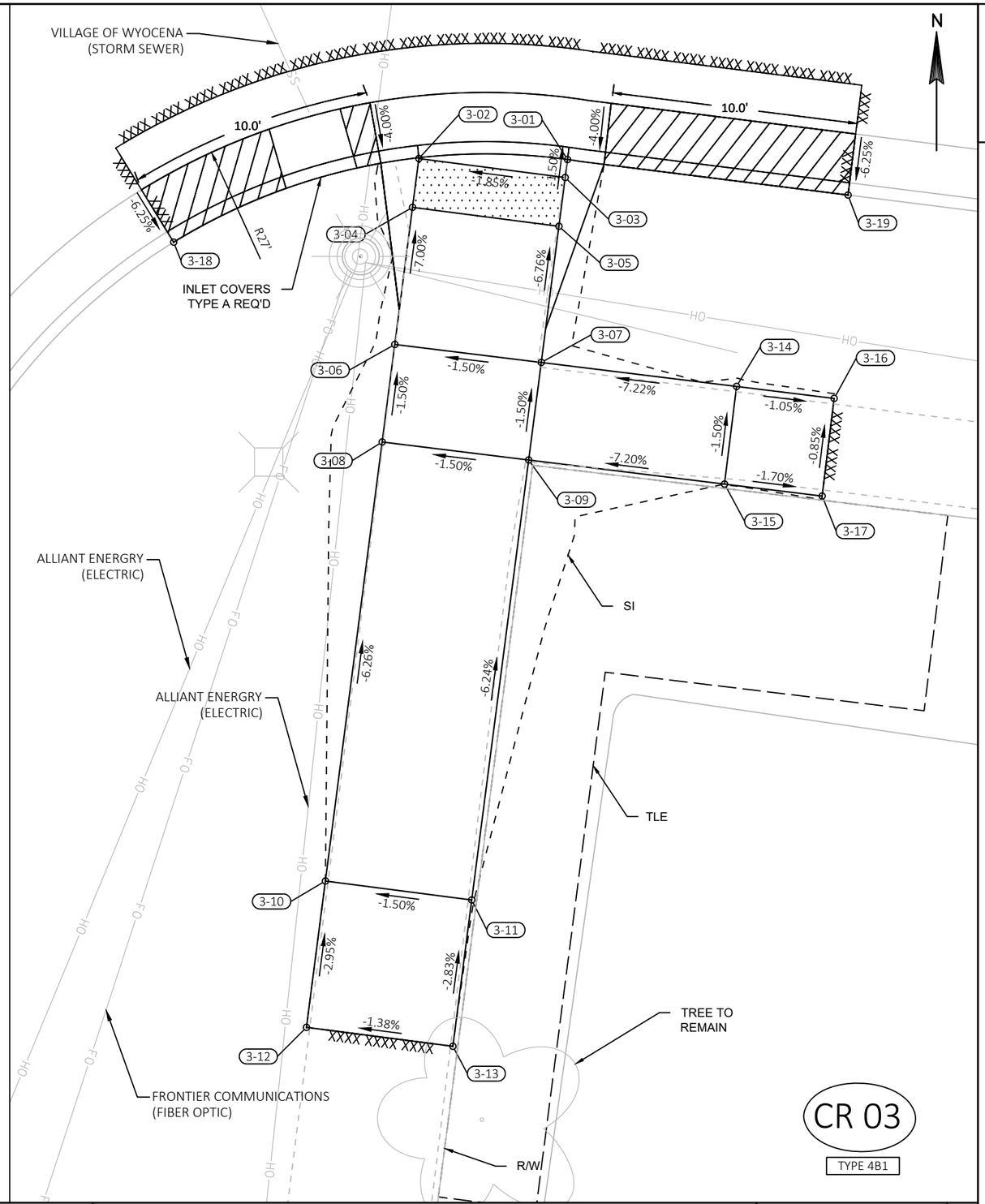
TYPE 4B
MODIFIED

CURB RAMP DETAILS: FRANKLIN ST SOUTHEAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
3-01	32+96.00	43.66'	RT	804.84	377849.10	577581.80
3-02	32+94.44	37.84'	RT	804.74	377849.14	577575.75
3-03	32+95.31	43.77'	RT	804.85	377848.37	577581.70
3-04	32+92.55	38.14'	RT	804.88	377847.15	577575.50
3-05	32+93.42	44.07'	RT	804.98	377846.38	577581.45
3-06	32+87.22	39.02'	RT	805.27	377841.58	577574.78
3-07	32+88.17	44.94'	RT	805.36	377840.85	577580.73
3-08	32+83.44	39.66'	RT	805.33	377837.61	577574.26
3-09	32+84.41	45.58'	RT	805.42	377836.88	577580.22
3-10	32+66.49	42.77'	RT	806.46	377819.76	577571.95
3-11	32+67.52	48.67'	RT	806.55	377818.99	577577.90
3-12	32+60.86	43.88'	RT	806.63	377813.81	577571.18
3-13	32+61.93	49.78'	RT	806.72	377813.04	577577.14
3-14	32+89.41	52.83'	RT	805.94	377839.87	577588.67
3-15	32+85.68	53.49'	RT	806.00	377835.90	577588.18
3-16	32+90.02	56.78'	RT	805.90	377839.38	577592.64
3-17	32+86.31	57.43'	RT	805.93	377835.41	577592.15
3-18	32+88.61	29.22'	RT	805.23	377845.74	577565.78
3-19	32+97.65	55.02'	RT	805.28	377847.66	577593.20

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B

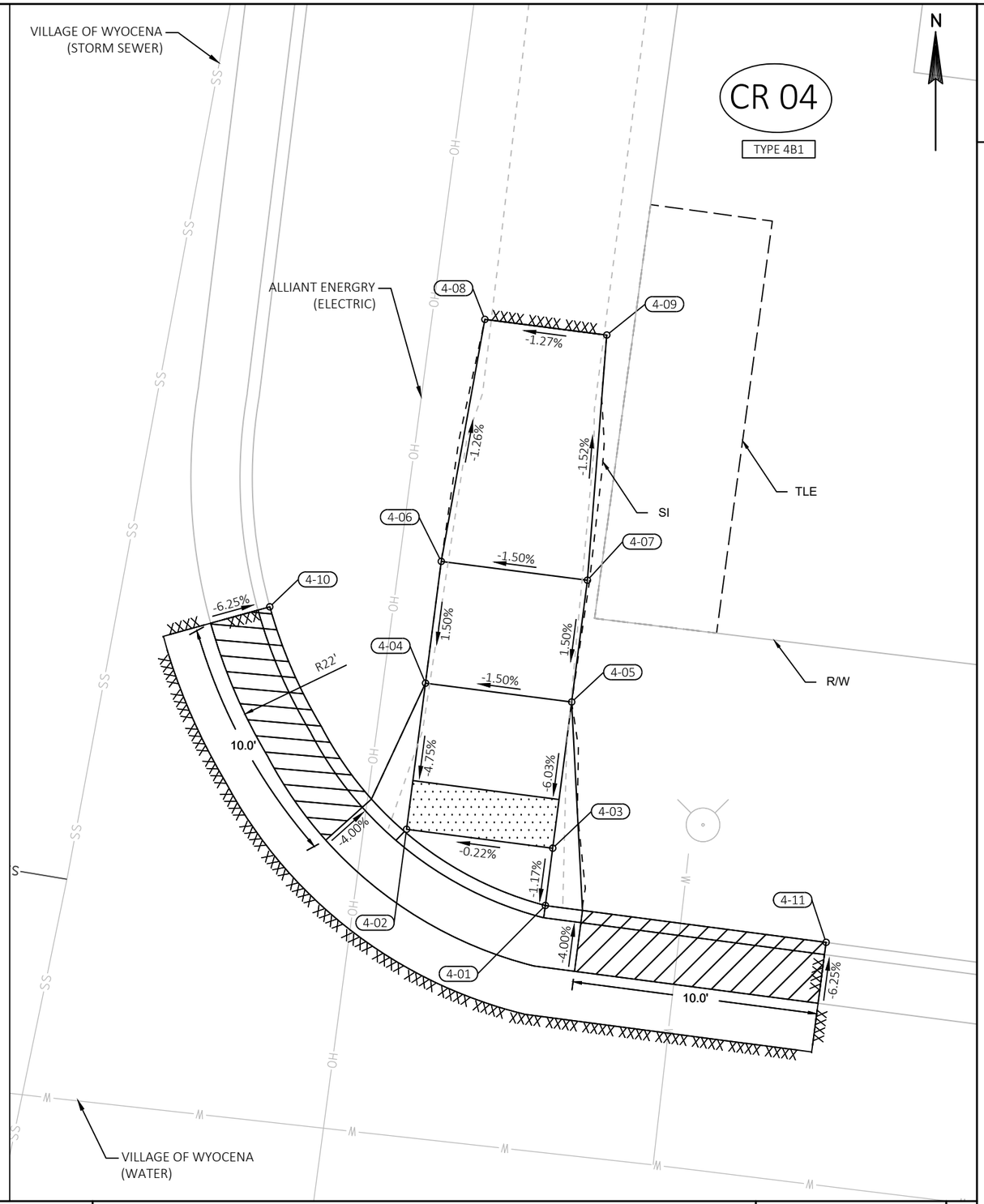


CURB RAMP DETAILS: FRANKLIN ST NORTHEAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
4-01	33+35.51	38.33'	RT	804.01	377890.40	577587.14
4-02	33+37.16	32.12'	RT	804.02	377893.50	577581.49
4-03	33+37.76	38.09'	RT	804.03	377892.73	577587.44
4-04	33+42.92	31.51'	RT	804.31	377899.45	577582.26
4-05	33+43.48	37.49'	RT	804.40	377898.68	577588.21
4-06	33+47.73	31.04'	RT	804.23	377904.41	577582.90
4-07	33+48.26	37.01'	RT	804.32	377903.64	577588.85
4-08	33+57.41	30.67'	RT	804.10	377914.26	577584.68
4-09	33+57.80	35.65'	RT	804.17	377913.62	577589.64
4-10	33+44.48	24.64'	RT	804.58	377902.56	577575.92
4-11	33+36.65	49.80'	RT	804.48	377888.90	577598.57

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B

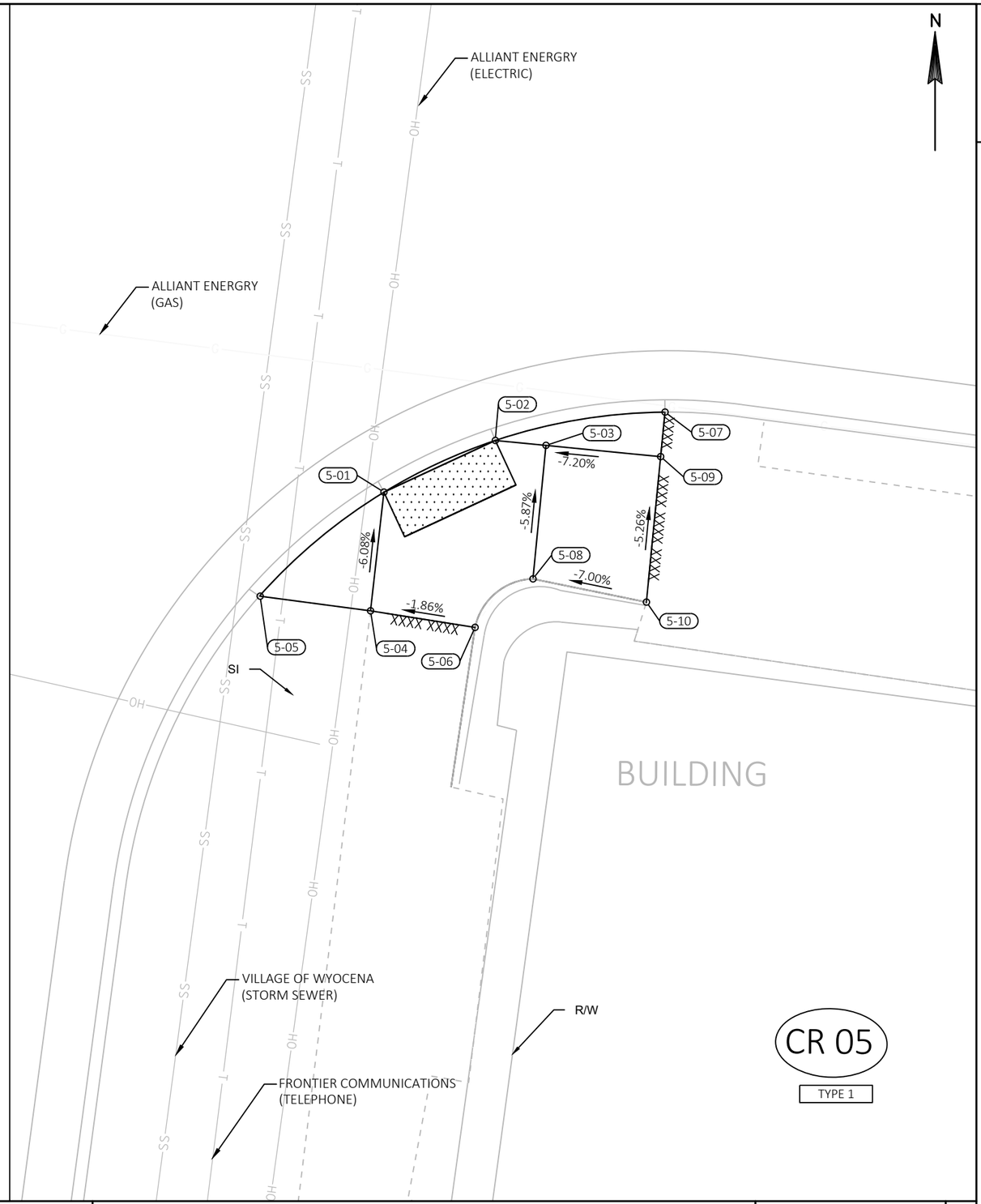


CURB RAMP DETAIL- MONROE ST SOUTHEAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
5-01	36+15.60	27.19'	RT	802.99	378172.87	577617.45
5-02	36+18.27	31.42'	RT	803.02	378174.97	577621.98
5-03	36+18.33	33.50'	RT	803.17	378174.77	577624.05
5-04	36+10.74	27.26'	RT	803.29	378168.04	577616.90
5-05	36+10.76	22.73'	RT	803.34	378168.63	577612.41
5-06	36+10.61	31.57'	RT	803.37	378167.36	577621.16
5-07	36+20.28	38.14'	RT	803.43	378176.13	577628.90
5-08	36+12.87	33.66'	RT	803.49	378169.34	577623.52
5-09	36+18.47	38.19'	RT	803.51	378174.31	577628.72
5-10	36+12.52	38.36'	RT	803.82	378168.39	577628.14

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- SAWING ASPHALT / SAWING CONCRETE (XXXX XXXX XXXX)
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B



2

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: CURB RAMPS - MONROE ST SOUTHEAST	SHEET : 26	E

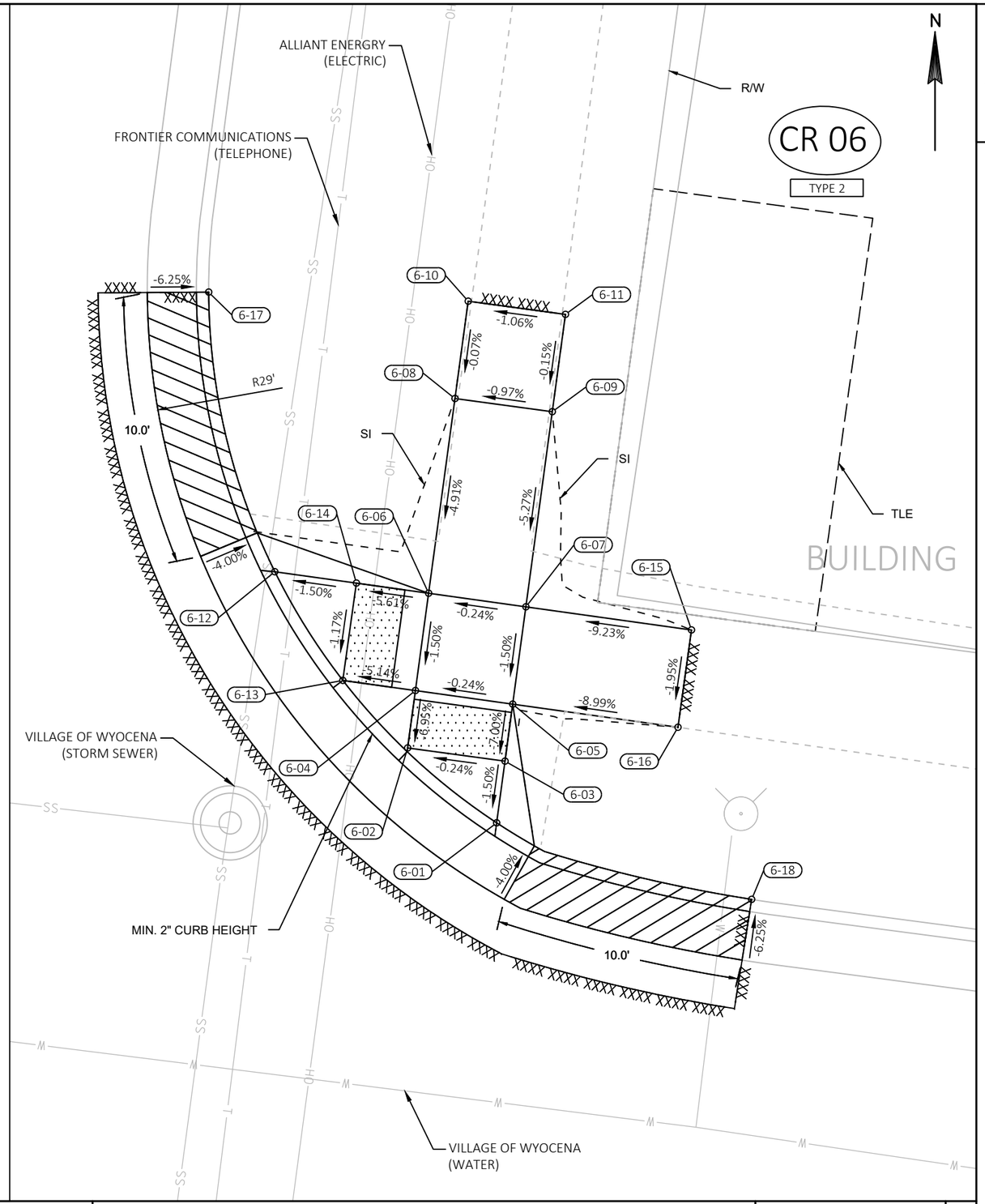
FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\SIDEWALK SHEETS 2.DWG
LAYOUT NAME - SOUTHEAST MONROE ST
PLOT DATE : 7/31/2019 9:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : _____ PLOT SCALE : 1 IN:5 FT
WISDOT/CADDS SHEET 42

CURB RAMP DETAILS: MONROE ST NORTHEAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
6-01	36+66.67	32.95'	RT	803.04	378222.79	577629.62
6-02	36+69.23	28.97'	RT	803.03	378225.84	577626.00
6-03	36+69.20	32.97'	RT	803.04	378225.31	577629.96
6-04	36+71.59	28.99'	RT	803.19	378228.18	577626.32
6-05	36+71.54	32.99'	RT	803.20	378227.62	577630.28
6-06	36+75.59	29.02'	RT	803.25	378232.14	577626.85
6-07	36+75.54	33.02'	RT	803.26	378231.59	577630.81
6-08	36+83.59	29.08'	RT	803.65	378240.07	577627.93
6-09	36+83.56	33.08'	RT	803.69	378239.53	577631.89
6-10	36+87.59	29.11'	RT	803.65	378244.03	577628.46
6-11	36+87.56	33.11'	RT	803.69	378243.50	577632.43
6-12	36+75.67	22.69'	RT	803.04	378233.02	577620.59
6-13	36+71.63	26.00'	RT	803.04	378228.59	577623.36
6-14	36+75.63	26.05'	RT	803.09	378232.55	577623.91
6-15	36+75.46	39.83'	RT	803.89	378230.64	577637.56
6-16	36+71.46	39.78'	RT	803.81	378226.68	577637.01
6-17	36+86.62	18.58'	RT	803.10	378244.40	577617.90
6-18	36+64.89	43.65'	RT	803.25	378219.68	577640.01

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B



PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: CURB RAMPS - MONROE ST NORTHEAST	SHEET 27	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\SIDEWALK SHEETS 2.DWG
LAYOUT NAME - NORTHEAST MONROE ST

PLOT DATE : 7/31/2019 9:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : _____ PLOT SCALE : 1 IN:5 FT

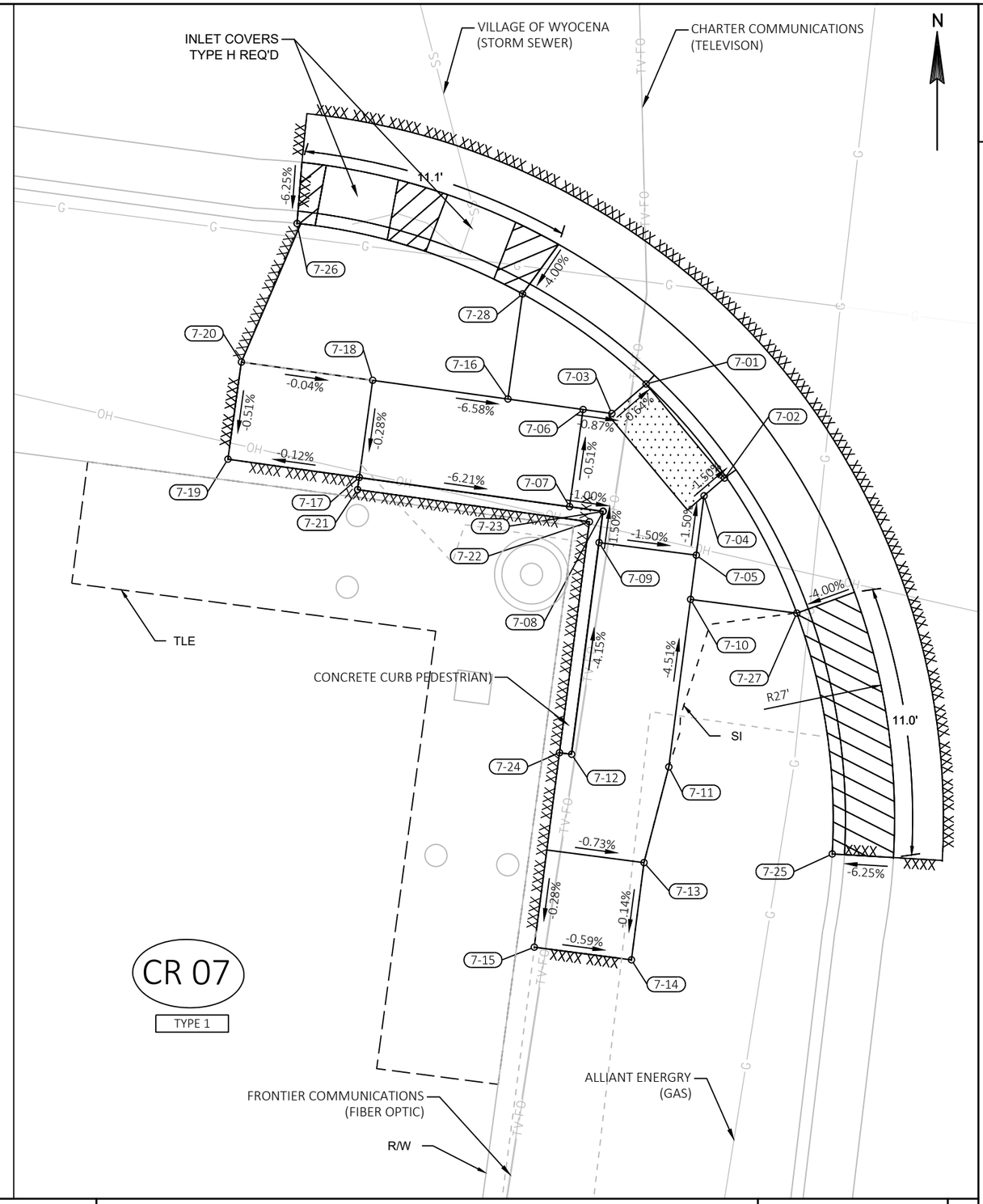
CURB RAMP DETAILS: MONROE ST SOUTHWEST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
7-01	36+16.38	28.39'	LT	802.97	378180.67	577562.41
7-02	36+12.98	24.73'	LT	802.91	378176.83	577565.61
7-03	36+15.01	29.62'	LT	802.98	378179.47	577561.01
7-04	36+12.15	25.47'	LT	802.92	378176.11	577564.77
7-05	36+09.71	25.47'	LT	802.96	378173.69	577564.46
7-06	36+15.02	30.81'	LT	802.99	378179.63	577559.84
7-07	36+11.02	30.85'	LT	803.01	378175.67	577559.29
7-08	36+11.01	29.47'	LT	803.00	378175.48	577560.66
7-09	36+09.72	29.47'	LT	803.02	378174.20	577560.49
7-10	36+07.89	25.48'	LT	803.04	378171.89	577564.23
7-11	36+01.00	25.49'	LT	803.35	378165.05	577563.34
7-12	36+01.01	29.49'	LT	803.38	378165.56	577559.37
7-13	35+97.00	26.00'	LT	803.35	378161.15	577562.33
7-14	35+93.00	26.01'	LT	803.34	378157.18	577561.81
7-15	35+93.01	30.01'	LT	803.37	378157.70	577557.85
7-16	36+15.06	33.91'	LT	803.20	378180.06	577556.77
7-17	36+11.12	39.52'	LT	803.55	378176.86	577550.70
7-18	36+15.12	39.48'	LT	803.56	378180.82	577551.25
7-19	36+11.18	44.93'	LT	803.55	378177.61	577545.34
7-20	36+15.18	44.89'	LT	803.57	378181.57	577545.89
7-21	36+10.62	39.53'	LT	803.55	378176.37	577550.64
7-22	36+10.51	29.97'	LT	803.37	378175.05	577560.10
7-23	36+11.00	29.48'	LT	803.37	378175.47	577560.65
7-24	36+01.01	29.99'	LT	803.39	378165.63	577558.88
7-25	35+98.32	18.43'	LT	803.18	378161.50	577570.01
7-26	36+21.08	43.35'	LT	803.56	378187.22	577548.17
7-27	36+07.88	21.11'	LT	803.25	378171.32	577568.56
7-28	36+19.39	33.86'	LT	803.52	378184.35	577557.37

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B

- SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW



2

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: CURB RAMPS - MONROE ST SOUTHWEST	SHEET 28	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\SIDEWALK SHEETS 2.DWG
LAYOUT NAME - SOUTHWEST MONROE ST
PLOT DATE : 7/31/2019 9:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : _____ PLOT SCALE : 1 IN:5 FT
WISDOT/CADDS SHEET 42

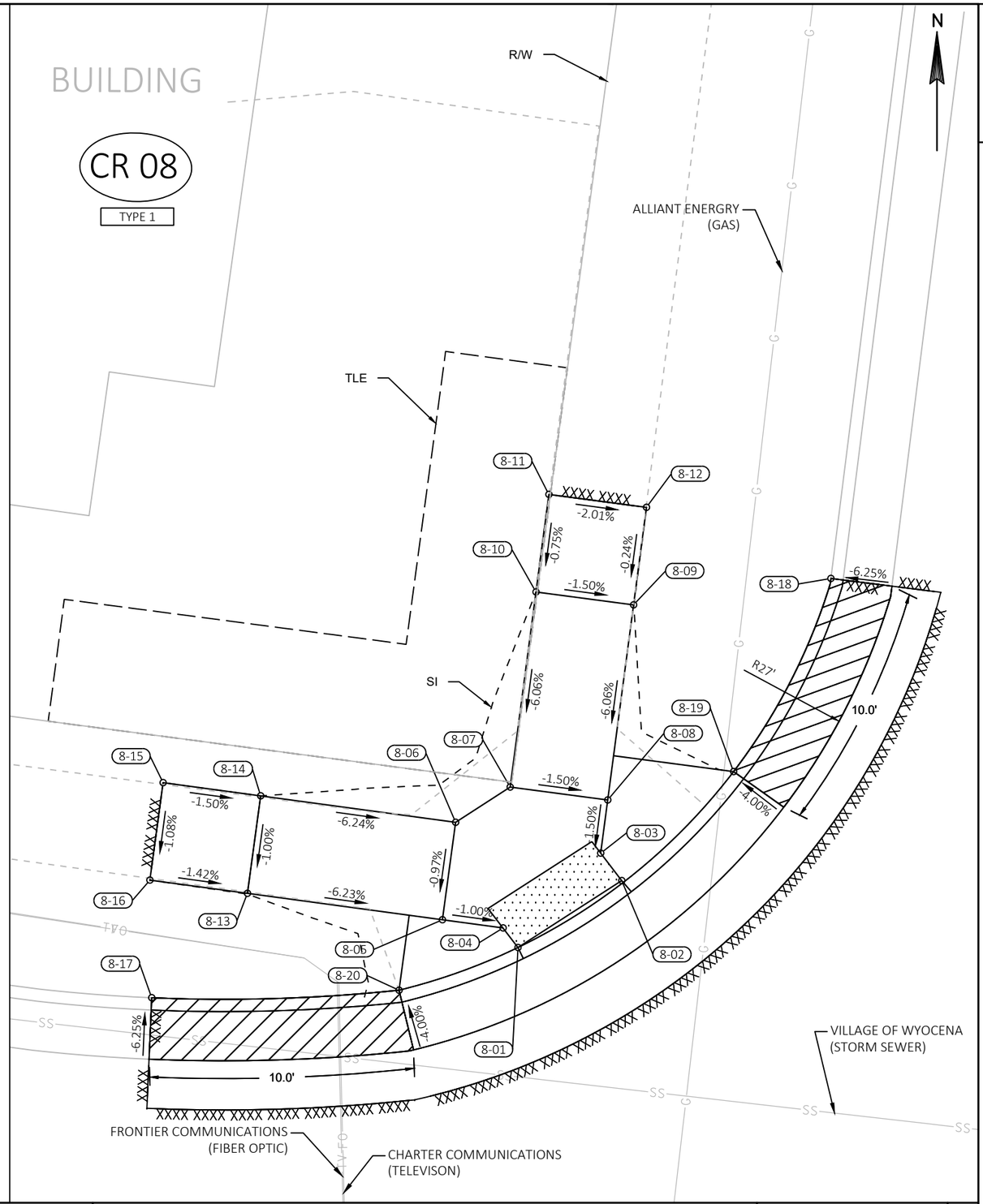
2

CURB RAMP DETAILS: MONROE ST NORTHWEST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
8-01	36+69.63	29.00'	LT	803.05	378233.58	577568.55
8-02	36+72.86	25.16'	LT	802.98	378236.29	577572.76
8-03	36+73.86	26.15'	LT	803.00	378237.41	577571.91
8-04	36+70.34	29.70'	LT	803.07	378234.37	577567.94
8-05	36+70.36	32.19'	LT	803.09	378234.70	577565.47
8-06	36+74.36	32.16'	LT	803.13	378238.67	577566.01
8-07	36+76.07	30.14'	LT	803.09	378240.10	577568.23
8-08	36+76.05	26.14'	LT	803.03	378239.58	577572.19
8-09	36+84.05	26.11'	LT	803.51	378247.51	577573.24
8-10	36+84.07	30.11'	LT	803.57	378248.03	577569.28
8-11	36+88.07	30.09'	LT	803.60	378252.00	577569.80
8-12	36+88.05	26.09'	LT	803.52	378251.47	577573.77
8-13	36+70.43	40.19'	LT	803.59	378235.78	577557.55
8-14	36+74.43	40.16'	LT	803.63	378239.74	577558.08
8-15	36+74.46	44.16'	LT	803.69	378240.28	577554.12
8-16	36+70.46	44.19'	LT	803.65	378236.31	577553.58
8-17	36+65.72	43.51'	LT	803.06	378231.53	577553.66
8-18	36+86.13	18.28'	LT	803.15	378248.58	577581.26
8-19	36+77.84	21.22'	LT	803.32	378240.73	577577.31
8-20	36+67.30	33.58'	LT	803.50	378231.84	577563.71

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B



PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: CURB RAMPS - MONROE ST NORTHWEST	SHEET : 29	E

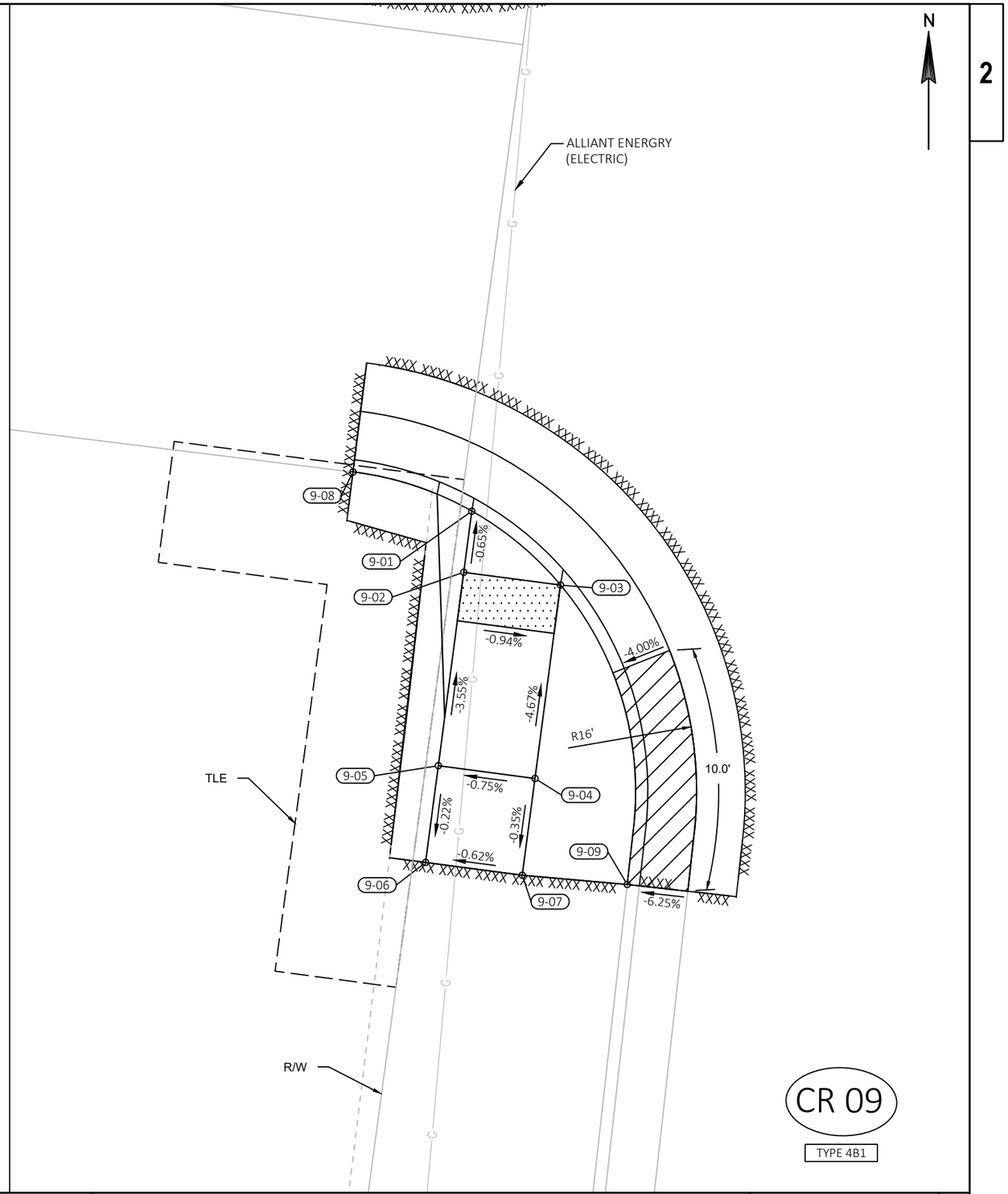
FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\SIDEWALK SHEETS 2.DWG
LAYOUT NAME - NORTHWEST MONROE ST
PLOT DATE : 7/31/2019 9:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : _____ PLOT SCALE : 1 IN:5 FT

CURB RAMP DETAILS- LANE RD SOUTHWEST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
9-01	39+21.03	27.92'	LT	801.86	378482.81	577601.44
9-02	39+18.50	27.93'	LT	801.87	378480.31	577601.11
9-03	39+18.49	23.93'	LT	801.81	378479.79	577605.08
9-04	39+10.49	23.96'	LT	802.19	378471.85	577604.03
9-05	39+10.50	27.96'	LT	802.16	378472.38	577600.07
9-06	39+06.50	27.97'	LT	802.15	378468.41	577599.55
9-07	39+06.49	23.97'	LT	802.17	378467.89	577603.51
9-08	39+22.01	32.95'	LT	802.05	378484.42	577596.57
9-09	39+06.65	19.66'	LT	802.20	378467.51	577607.82

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B



CR 09

TYPE 4B1

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: CURB RAMPS - LANE RD SOUTHWEST	SHEET 30	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\SIDEWALK SHEETS 2.DWG
LAYOUT NAME - SOUTHWEST LANE RD

PLOT DATE : 7/31/2019 9:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : _____ PLOT SCALE : 1 IN:5 FT

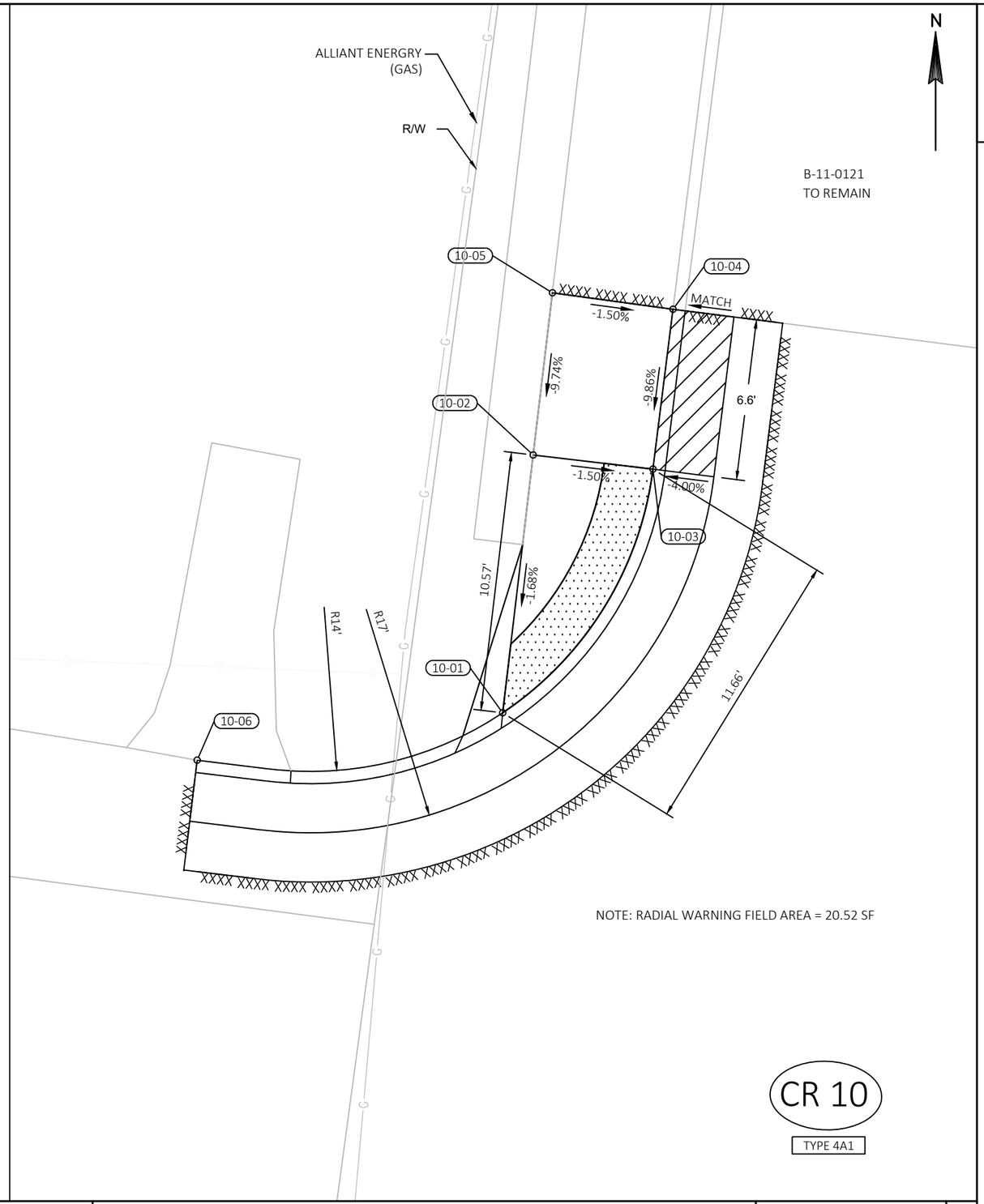
WISDOT/CADDS SHEET 42

CURB RAMP DETAIL- LANE RD NORTHWEST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
10-01	39+49.48	24.16'	LT	801.78	378510.56	577608.77
10-02	39+60.05	24.26'	LT	801.96	378521.05	577610.01
10-03	39+60.10	19.35'	LT	801.88	378520.48	577614.88
10-04	39+66.65	19.37'	LT	802.53	378526.99	577615.70
10-05	39+66.70	24.32'	LT	802.60	378527.66	577610.79
10-06	39+45.99	36.25'	LT	801.74	378508.62	577596.33

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B

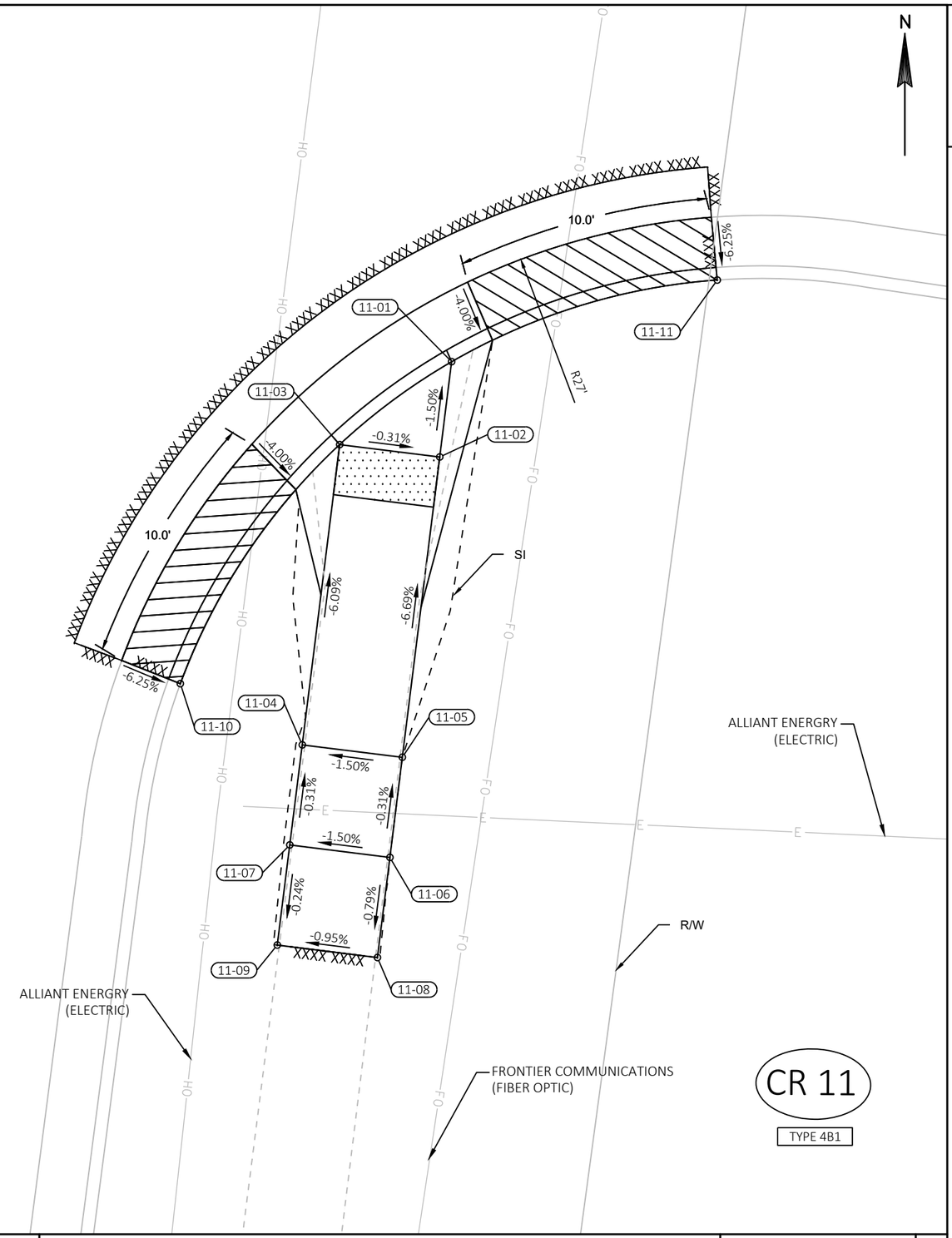


CURB RAMP DETAILS: LOVERS LN SOUTHEAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
11-01	41+53.94	29.55'	RT	802.64	378706.57	577687.93
11-02	41+50.13	29.56'	RT	802.70	378702.79	577687.46
11-03	41+50.11	25.56'	RT	802.71	378703.29	577683.49
11-04	41+38.11	25.60'	RT	803.44	378691.38	577682.00
11-05	41+38.13	29.60'	RT	803.50	378690.88	577685.97
11-06	41+34.13	29.61'	RT	803.51	378686.91	577685.48
11-07	41+34.11	25.61'	RT	803.45	378687.41	577681.51
11-08	41+30.13	29.62'	RT	803.48	378682.94	577684.98
11-09	41+30.11	25.62'	RT	803.44	378683.44	577681.02
11-10	41+39.91	20.50'	RT	803.35	378693.81	577677.17
11-11	41+58.48	39.59'	RT	802.85	378709.81	577698.46

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B



PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: CURB RAMPS - LOVERS LN SOUTHEAST	SHEET 32	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\SIDEWALK SHEETS 2.DWG
LAYOUT NAME - SOUTHEAST LOVERS LN

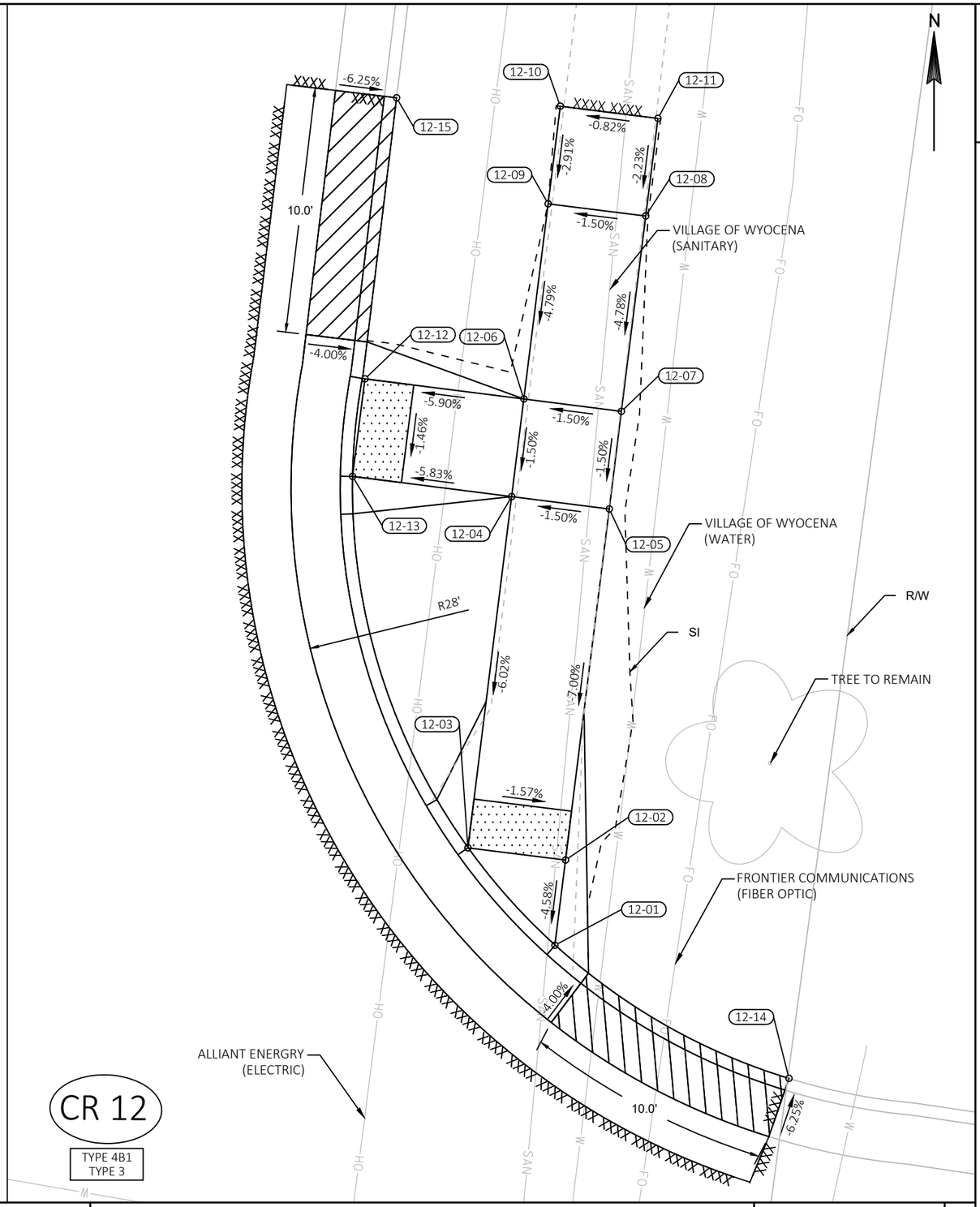
PLOT DATE : 7/31/2019 9:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : _____ PLOT SCALE : 1 IN:5 FT

CURB RAMP DETAILS: LOVERS LN NORTHEAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
12-01	41+96.32	29.42'	RT	802.78	378748.63	577693.17
12-02	41+99.82	29.41'	RT	802.94	378752.10	577693.60
12-03	41+99.80	25.41'	RT	803.02	378752.59	577689.63
12-04	42+14.20	25.37'	RT	803.88	378766.88	577691.41
12-05	42+14.20	29.37'	RT	803.94	378766.38	577695.38
12-06	42+18.20	25.36'	RT	803.94	378770.85	577691.90
12-07	42+18.20	29.36'	RT	804.00	378770.34	577695.87
12-08	42+26.21	29.34'	RT	804.39	378778.29	577696.86
12-09	42+26.20	25.34'	RT	804.33	378778.79	577692.89
12-10	42+30.20	25.32'	RT	804.44	378782.76	577693.39
12-11	42+30.21	29.32'	RT	804.48	378782.26	577697.36
12-12	42+18.20	18.85'	RT	803.56	378771.67	577685.44
12-13	42+14.20	18.85'	RT	803.50	378767.70	577684.94
12-14	41+92.15	39.55'	RT	802.61	378743.21	577702.69
12-15	42+29.70	18.68'	RT	804.09	378783.10	577686.73

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B



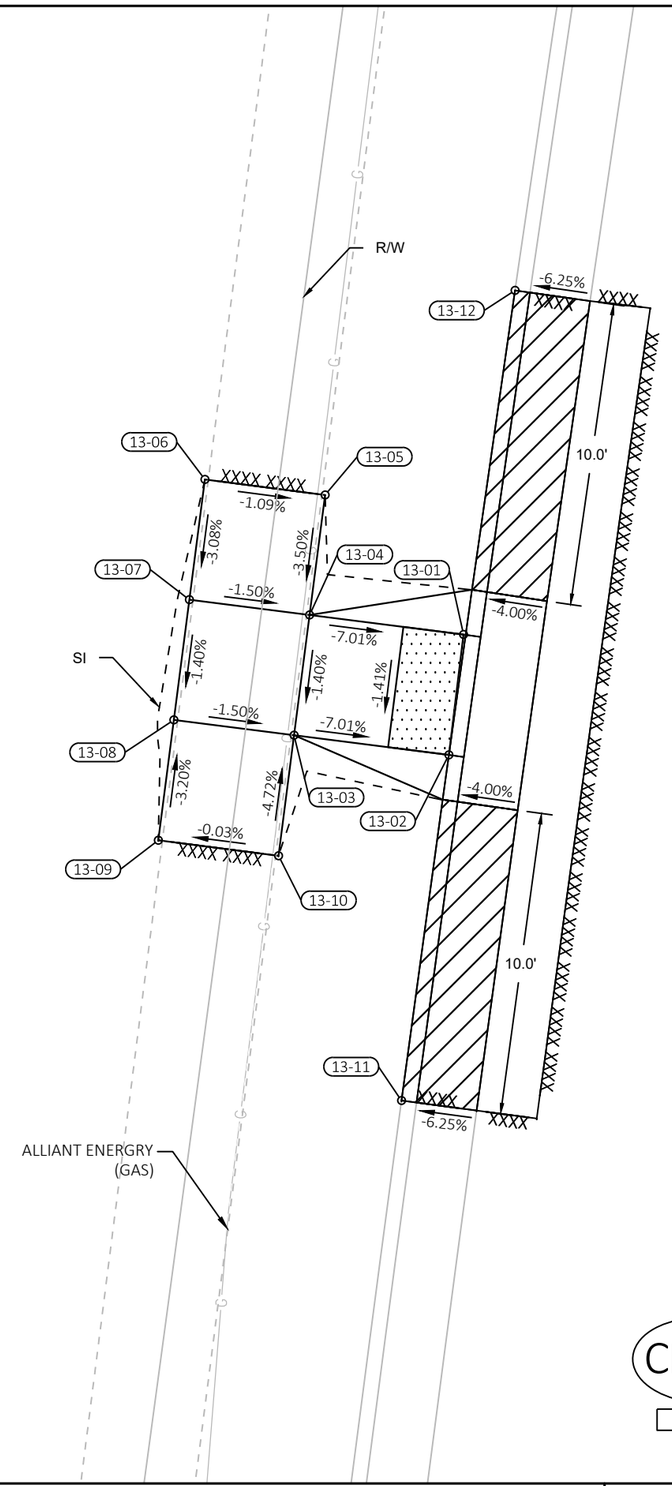
PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: CURB RAMPS - LOVERS LN NORTHEAST	SHEET 33	E

CURB RAMP DETAILS- LOVERS LN NORTHWEST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
13-01	42+18.17	19.61' LT	803.52	378776.51	577647.30
13-02	42+14.17	19.58' LT	803.47	378772.54	577646.81
13-03	42+14.17	24.73' LT	803.83	378773.19	577641.71
13-04	42+18.17	24.72' LT	803.88	378777.16	577642.22
13-05	42+22.16	24.72' LT	804.02	378781.12	577642.73
13-06	42+22.17	28.72' LT	804.07	378781.63	577638.76
13-07	42+18.17	28.72' LT	803.94	378777.66	577638.25
13-08	42+14.17	28.73' LT	803.89	378773.69	577637.74
13-09	42+10.17	28.74' LT	804.02	378769.73	577637.23
13-10	42+10.16	24.74' LT	804.02	378769.21	577641.19
13-11	42+02.66	19.69' LT	803.80	378761.14	577645.25
13-12	42+29.65	19.36' LT	804.12	378787.86	577648.99

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B

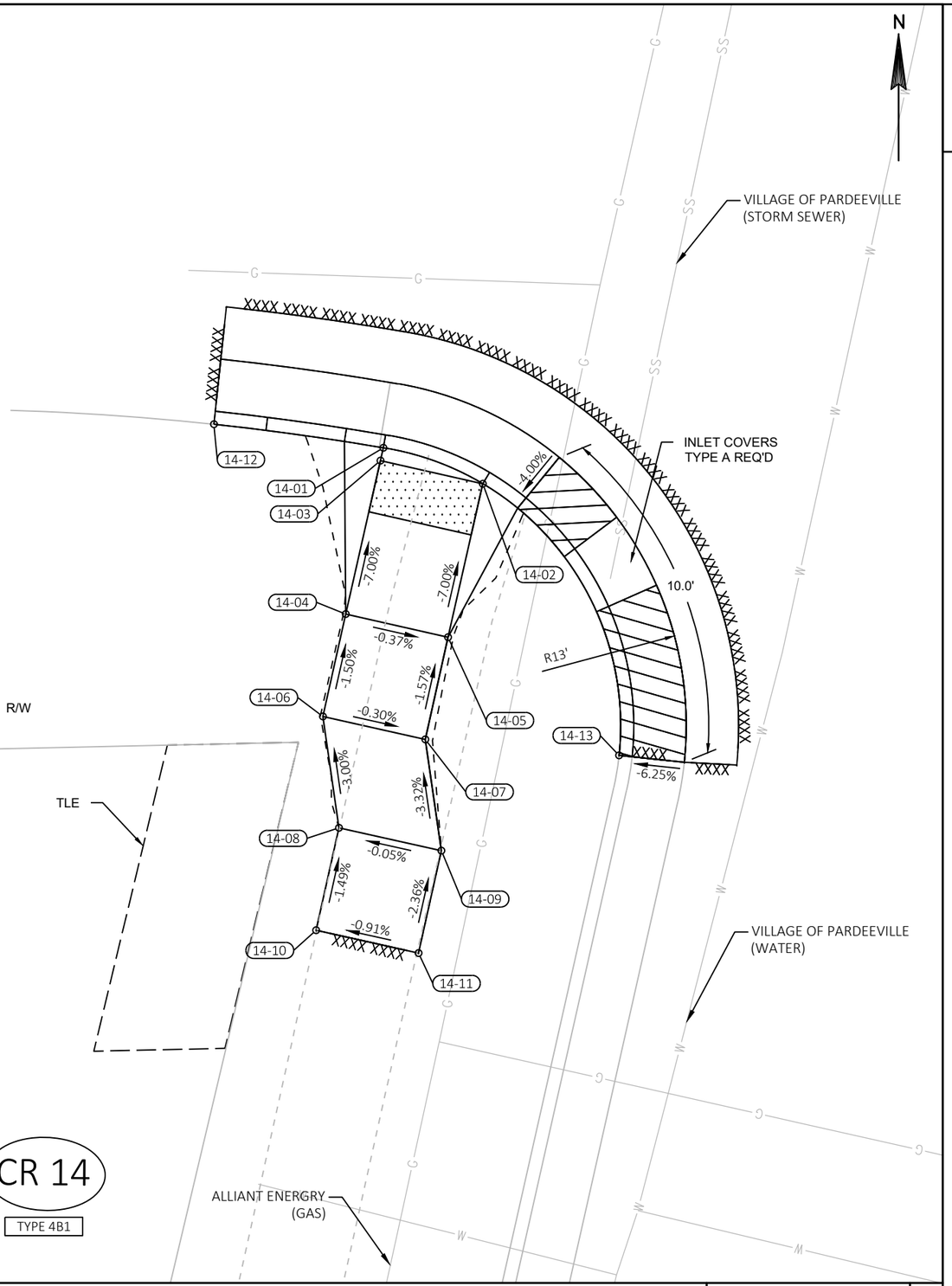


CURB RAMP DETAIL- VINCE ST SOUTHWEST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
14-01	172+67.98	31.62'	LT	815.50	391356.37	579540.85
14-02	172+67.47	27.63'	LT	815.49	391355.00	579544.64
14-03	172+67.48	31.63'	LT	815.50	391355.88	579540.74
14-04	172+61.48	31.63'	LT	815.92	391350.03	579539.41
14-05	172+61.47	27.63'	LT	815.91	391349.14	579543.31
14-06	172+57.48	31.63'	LT	815.98	391346.12	579538.54
14-07	172+57.48	27.63'	LT	815.97	391345.25	579542.45
14-08	172+53.47	30.10'	LT	816.11	391341.88	579539.16
14-09	172+53.48	26.10'	LT	816.11	391341.01	579543.06
14-10	172+49.47	30.09'	LT	816.17	391337.98	579538.29
14-11	172+49.48	26.09'	LT	816.21	391337.11	579542.19
14-12	172+67.43	38.13'	LT	815.54	391357.26	579534.39
14-13	172+58.51	20.29'	LT	816.00	391344.64	579549.83

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B

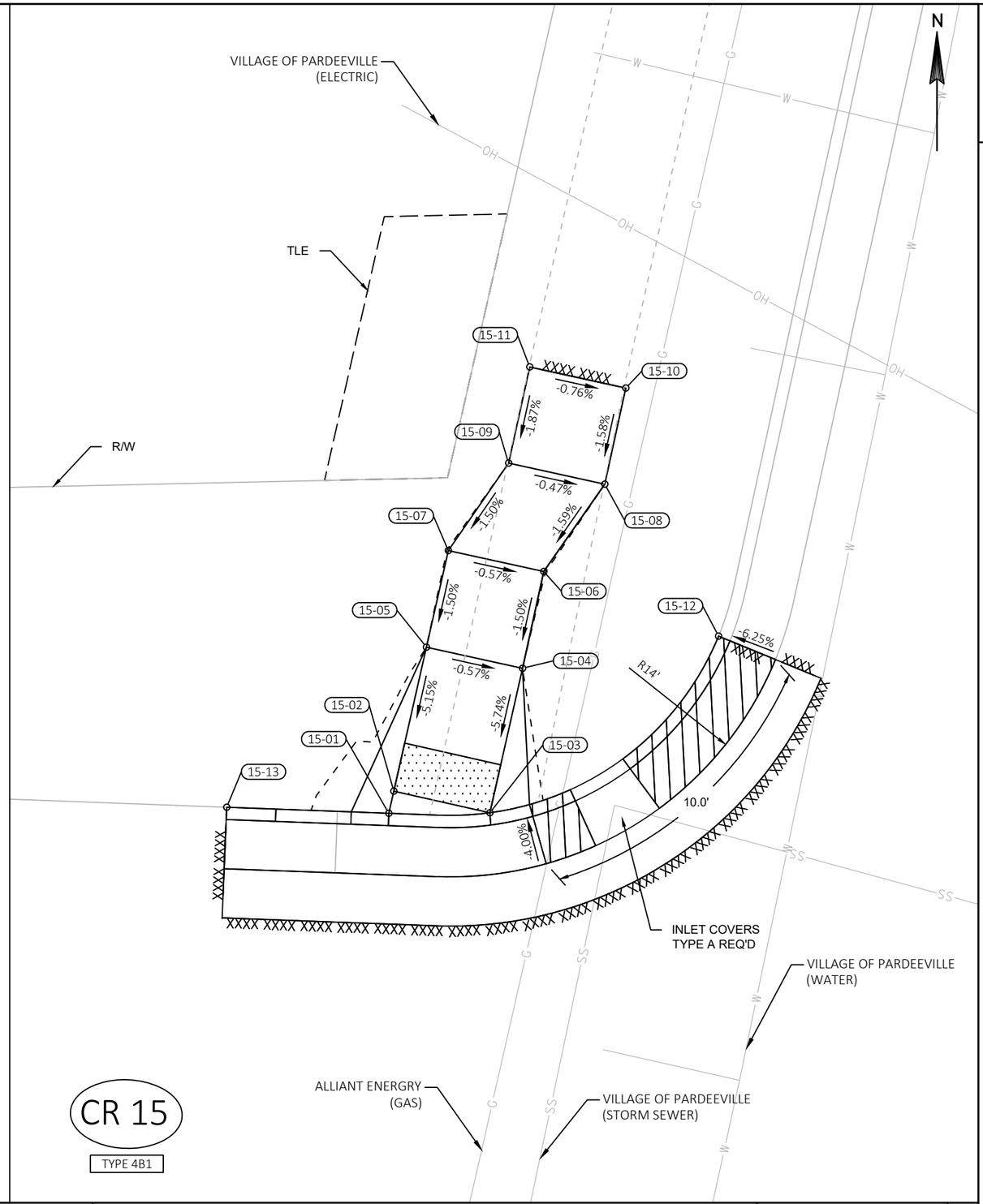


CURB RAMP DETAIL- VINCE ST NORTHWEST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
15-01	173+08.44	31.57'	LT	815.30	391395.83	579549.78
15-02	173+09.36	31.57'	LT	815.31	391396.73	579549.98
15-03	173+09.36	27.57'	LT	815.25	391395.85	579553.89
15-04	173+15.39	27.56'	LT	815.60	391401.73	579555.22
15-05	173+15.36	31.56'	LT	815.62	391402.58	579551.31
15-06	173+19.41	27.58'	LT	815.66	391405.66	579556.08
15-07	173+19.39	31.55'	LT	815.68	391406.51	579552.20
15-08	173+23.42	25.94'	LT	815.73	391409.21	579558.56
15-09	173+23.40	29.94'	LT	815.75	391410.07	579554.65
15-10	173+27.42	25.96'	LT	815.79	391413.12	579559.41
15-11	173+27.40	29.96'	LT	815.82	391413.98	579555.51
15-12	173+18.41	20.07'	LT	816.05	391403.03	579563.18
15-13	173+07.23	38.05'	LT	815.34	391396.08	579543.19

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B



CR 15

TYPE 4B1

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: CURB RAMPS - VINCE ST NORTHWEST	SHEET 36	E

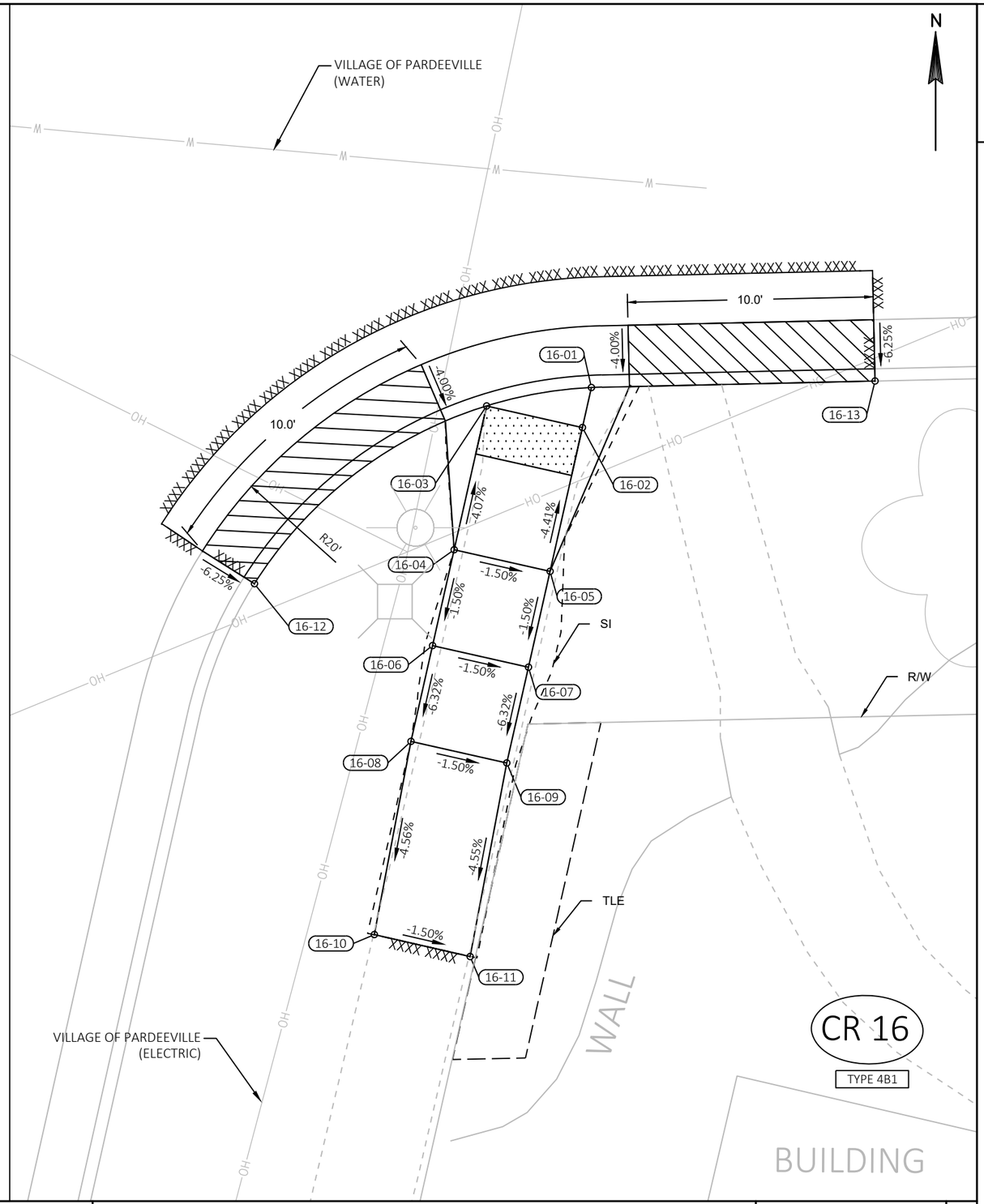
FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\SIDEWALK SHEETS 2.DWG
LAYOUT NAME - NORTHWEST VINCE ST
PLOT DATE : 7/31/2019 9:37 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : _____ PLOT SCALE : 1 IN:5 FT
WISDOT/CADDS SHEET 42

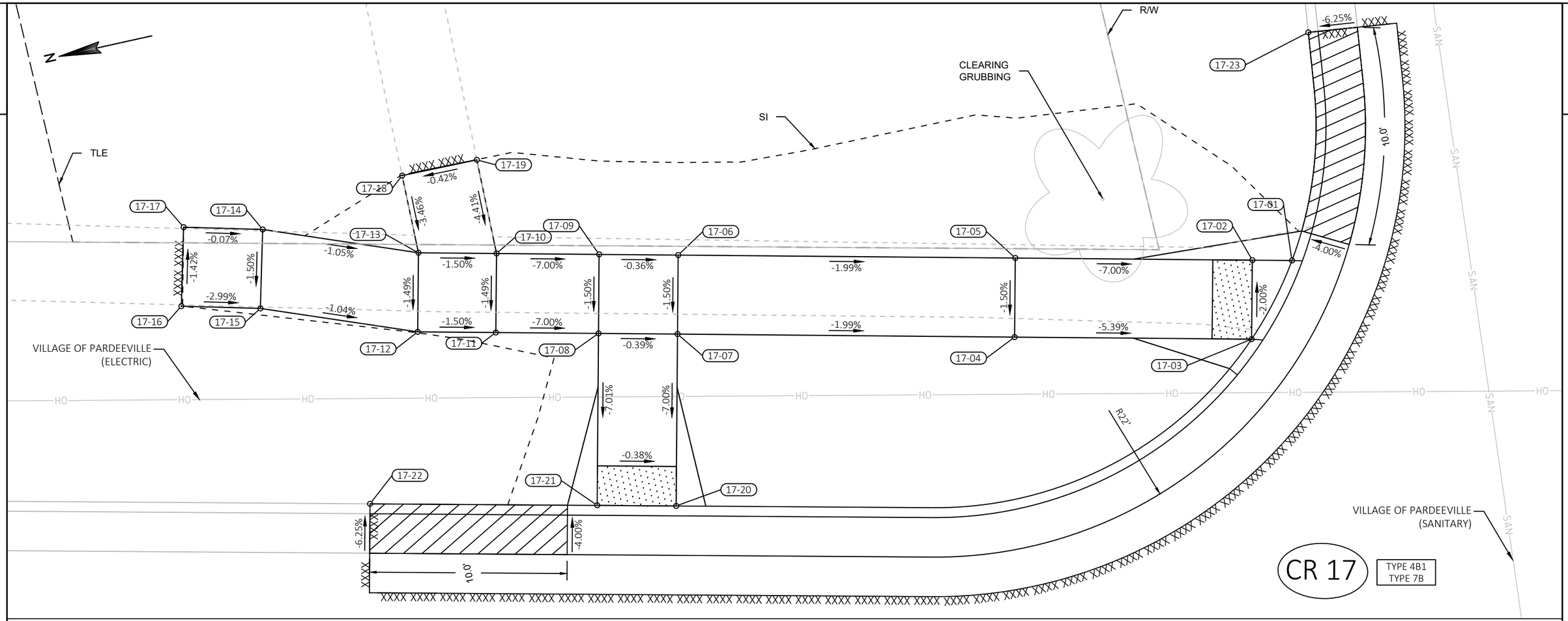
CURB RAMP DETAIL: LAFOLLETTE ST SOUTHEAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
16-01	178+97.64	34.05'	RT	815.74	391956.29	579743.03
16-02	178+95.97	34.04'	RT	815.95	391954.66	579742.66
16-03	178+95.97	30.04'	RT	816.03	391955.54	579738.76
16-04	178+89.97	30.04'	RT	816.28	391949.69	579737.44
16-05	178+89.97	34.04'	RT	816.22	391948.81	579741.34
16-06	178+85.97	30.04'	RT	816.22	391945.79	579736.56
16-07	178+85.97	34.04'	RT	816.16	391944.91	579740.46
16-08	178+81.97	30.04'	RT	815.96	391941.88	579735.68
16-09	178+81.97	34.04'	RT	815.90	391941.01	579739.58
16-10	178+73.97	30.31'	RT	815.60	391934.02	579734.19
16-11	178+73.95	34.31'	RT	815.54	391933.12	579738.09
16-12	178+86.84	22.41'	RT	0.00	391948.30	579729.31
16-13	179+00.43	45.25'	RT	816.03	391956.56	579754.57

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B





LEGEND	
——— ———	RIGHT OF WAY (R/W)
- - - - - - - - -	SLOPE INTERCEPT (SI)
— — — — —	TEMPORARY LIMITED EASEMENT (TLE)
. XXXX XXXX XXXX .	SAWING ASPHALT SAWING CONCRETE
	CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
	CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B

CURB RAMP DETAIL- LAFOLLETTE ST NORTHEAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
17-01	179+44.98	34.07'	RT	816.58	392002.47	579753.43
17-02	179+46.99	34.07'	RT	816.66	392004.43	579753.88
17-03	179+46.99	30.07'	RT	816.74	392005.31	579749.97
17-04	179+58.99	30.08'	RT	817.44	392017.02	579752.61
17-05	179+58.99	34.08'	RT	817.50	392016.14	579756.51
17-06	179+76.06	34.09'	RT	817.84	392032.79	579760.27
17-07	179+76.06	30.09'	RT	817.78	392033.67	579756.36
17-08	179+80.06	30.09'	RT	817.80	392037.57	579757.24
17-09	179+80.06	34.09'	RT	817.86	392036.70	579761.15
17-10	179+85.26	34.09'	RT	818.22	392041.76	579762.29
17-11	179+85.26	30.09'	RT	818.16	392042.64	579758.39
17-12	179+89.21	30.09'	RT	818.22	392046.50	579759.26

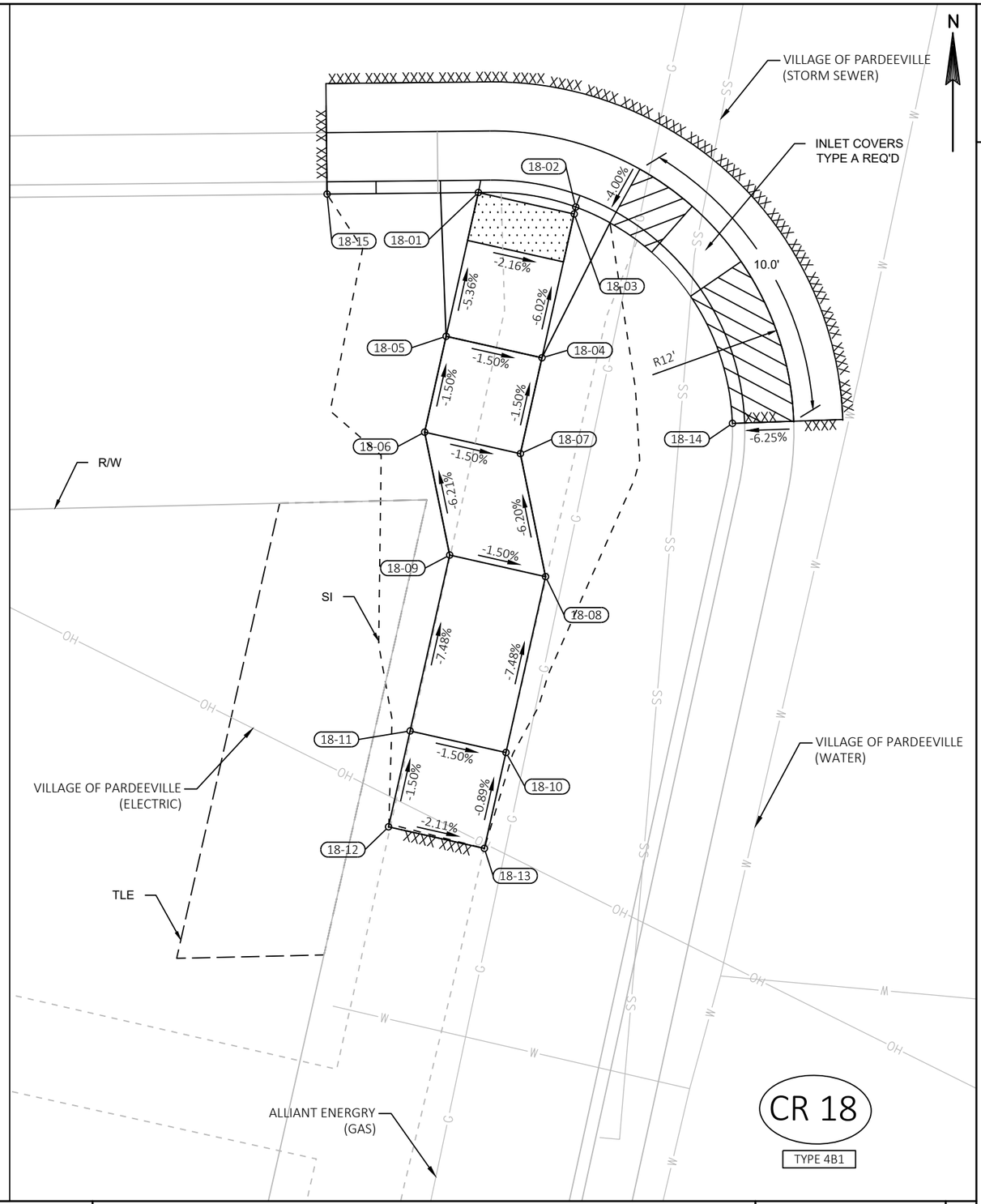
CURB RAMP DETAIL- LAFOLLETTE ST NORTHEAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
17-13	179+89.21	34.09'	RT	818.28	392045.62	579763.16
17-14	179+97.10	35.21'	RT	818.36	392053.08	579765.98
17-15	179+97.19	31.21'	RT	818.30	392054.04	579762.10
17-16	180+01.19	31.29'	RT	818.42	392057.92	579763.05
17-17	180+01.11	35.29'	RT	818.37	392056.97	579766.94
17-18	179+90.07	37.99'	RT	818.42	392045.60	579767.15
17-19	179+86.29	38.82'	RT	818.43	392041.74	579767.13
17-20	179+76.05	21.39'	RT	817.17	392035.57	579747.88
17-21	179+80.05	21.38'	RT	817.19	392039.48	579748.75
17-22	179+91.55	21.37'	RT	0.00	392050.70	579751.26
17-23	179+44.25	45.62'	RT	0.00	391999.23	579764.55

CURB RAMP DETAIL- LAFOLLETTE ST SOUTHWEST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
18-01	179+28.60	32.12'	LT	0.00	392001.01	579685.26
18-02	179+28.89	28.13'	LT	0.00	392000.42	579689.23
18-03	179+28.60	28.12'	LT	0.00	392000.13	579689.16
18-04	179+22.60	28.12'	LT	816.87	391994.28	579687.85
18-05	179+22.60	32.12'	LT	816.87	391995.15	579683.95
18-06	179+18.60	32.12'	LT	816.87	391991.25	579683.07
18-07	179+18.59	28.12'	LT	816.87	391990.37	579686.97
18-08	179+13.93	26.02'	LT	817.40	391985.37	579687.99
18-09	179+13.94	30.02'	LT	817.40	391986.24	579684.09
18-10	179+06.59	26.03'	LT	816.87	391978.20	579686.38
18-11	179+06.60	30.03'	LT	816.87	391979.08	579682.48
18-12	179+02.60	30.03'	LT	817.40	391975.18	579681.60
18-13	179+02.59	26.03'	LT	817.40	391974.30	579685.50
18-14	179+21.69	19.97'	LT	0.00	391991.61	579695.61
18-15	179+27.18	38.12'	LT	0.00	392000.95	579679.10

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B



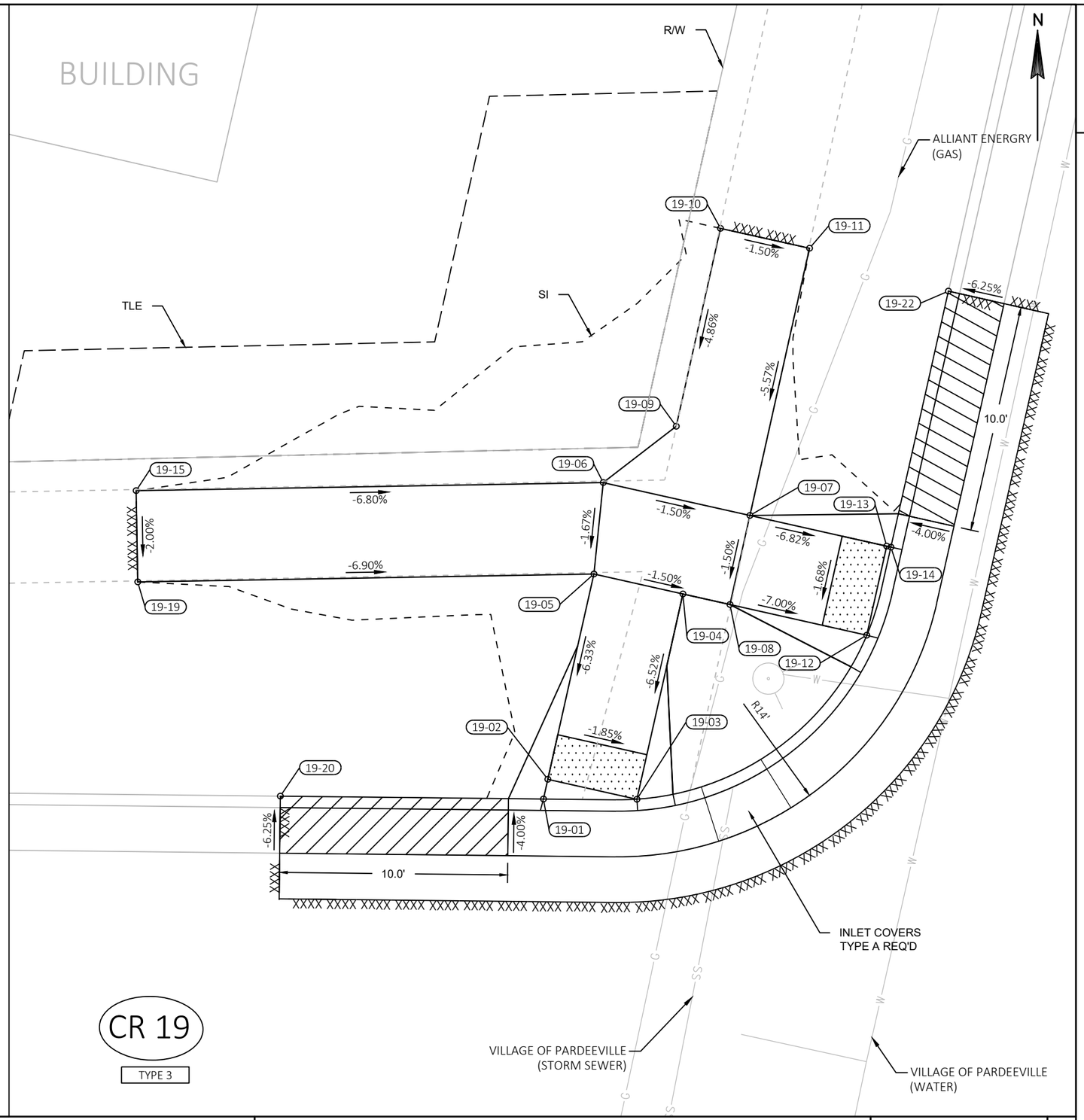
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CURB RAMP DETAIL- LAFOLLETTE ST NORTHWEST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
19-01	179+65.92	32.14'	LT	817.22	392037.43	579693.43
19-02	179+66.81	32.14'	LT	817.06	392038.29	579693.62
19-03	179+66.81	28.14'	LT	816.98	392037.42	579697.53
19-04	179+76.03	28.15'	LT	817.58	392046.42	579699.55
19-05	179+76.03	32.15'	LT	817.64	392047.29	579695.64
19-06	179+80.03	32.63'	LT	817.71	392051.30	579696.05
19-07	179+80.03	26.04'	LT	817.61	392049.86	579702.48
19-08	179+76.03	26.03'	LT	817.55	392045.95	579701.61
19-09	179+83.14	30.04'	LT	817.91	392053.77	579699.25
19-10	179+92.03	30.05'	LT	818.34	392062.44	579701.19
19-11	179+92.03	26.05'	LT	818.28	392061.57	579705.10
19-12	179+76.04	19.89'	LT	817.12	392044.61	579707.60
19-13	179+80.04	19.89'	LT	817.19	392048.51	579708.48
19-14	179+80.04	19.70'	LT	817.18	392048.47	579708.66
19-15	179+75.19	52.52'	LT	819.10	392050.94	579675.58
19-19	179+71.31	51.58'	LT	819.02	392046.94	579675.65
19-20	179+63.52	43.42'	LT	0.00	392037.56	579681.90
19-22	179+91.54	19.70'	LT	0.00	392059.69	579711.18

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B



CR 19

TYPE 3

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: CURB RAMPS - LAFOLLETTTE ST NORTHWEST	SHEET : 40	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\SIDEWALK SHEETS 2.DWG
LAYOUT NAME - NORTHWEST LAFOLLETTE ST

PLOT DATE : 7/31/2019 9:37 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : _____ PLOT SCALE : 1 IN:5 FT

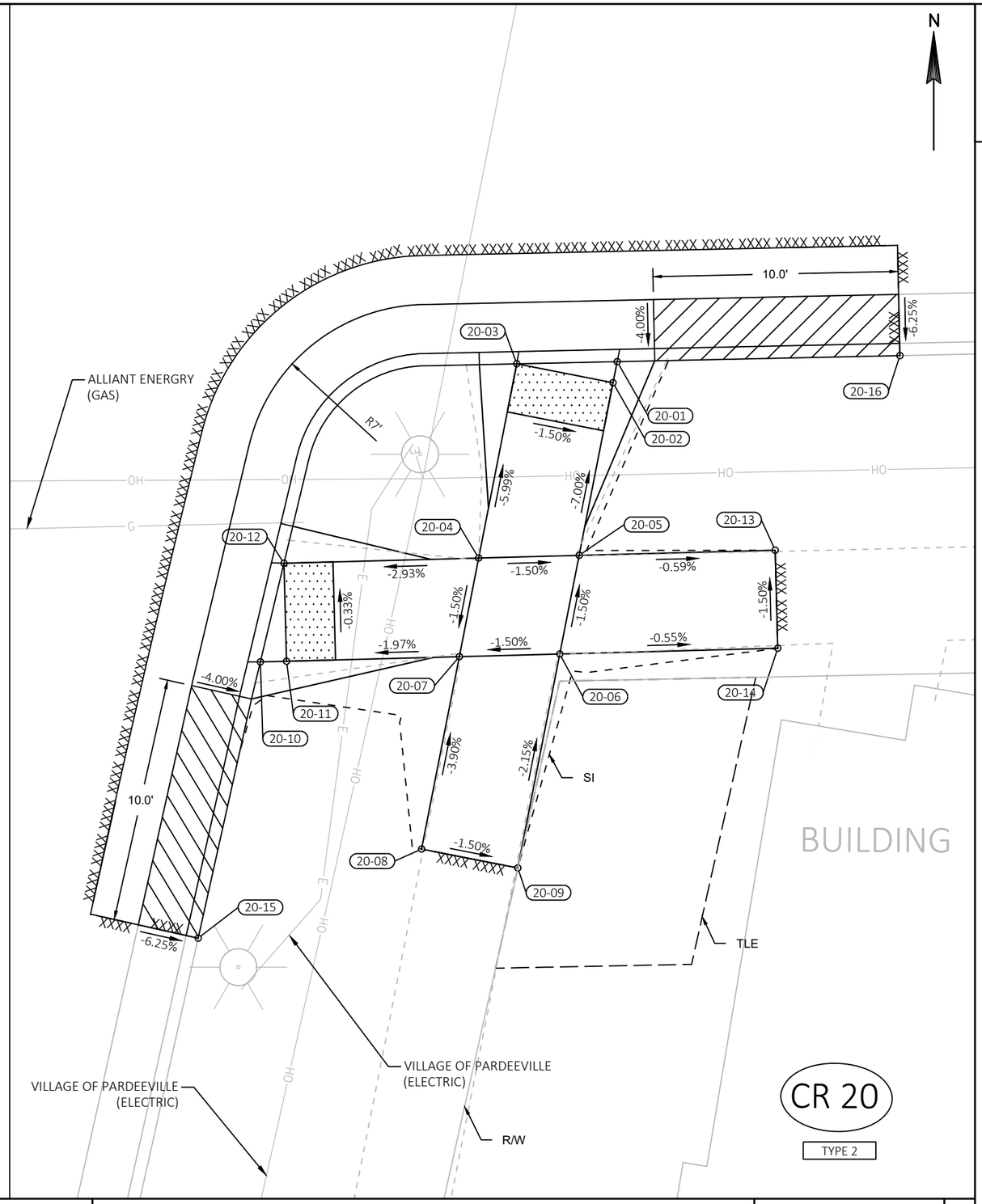
WISDOT/CADDS SHEET 42

CURB RAMP DETAIL- CHESTNUT ST SOUTHEAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
20-01	186+44.81	33.12'	RT	815.61	392685.47	579906.01
20-02	186+43.94	33.15'	RT	815.64	392684.61	579905.84
20-03	186+43.83	29.15'	RT	815.72	392685.38	579901.92
20-04	186+35.75	29.37'	RT	816.20	392677.46	579900.36
20-05	186+36.76	33.35'	RT	816.14	392677.57	579904.46
20-06	186+32.66	33.46'	RT	816.20	392673.54	579903.67
20-07	186+31.66	29.48'	RT	816.14	392673.44	579899.57
20-08	186+23.66	29.70'	RT	816.45	392665.59	579898.03
20-09	186+23.77	33.70'	RT	816.39	392664.82	579901.96
20-10	186+29.67	21.61'	RT	815.99	392673.22	579891.46
20-11	186+29.93	22.65'	RT	816.00	392673.25	579892.53
20-12	186+33.81	21.67'	RT	815.97	392677.25	579892.42
20-13	186+38.72	41.10'	RT	816.10	392677.78	579912.46
20-14	186+34.84	42.08'	RT	816.16	392673.78	579912.56
20-15	186+18.11	21.61'	RT	0.00	392661.95	579888.92
20-16	186+47.58	44.32'	RT	0.00	392685.72	579917.54

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B



PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: CURB RAMPS - CHESTNUT ST SOUTHEAST	SHEET 41	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\SIDEWALK SHEETS 2.DWG
LAYOUT NAME - SOUTHEAST CHESTNUT ST
PLOT DATE : 7/31/2019 9:38 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : _____ PLOT SCALE : 1 IN:5 FT
WISDOT/CADDS SHEET 42

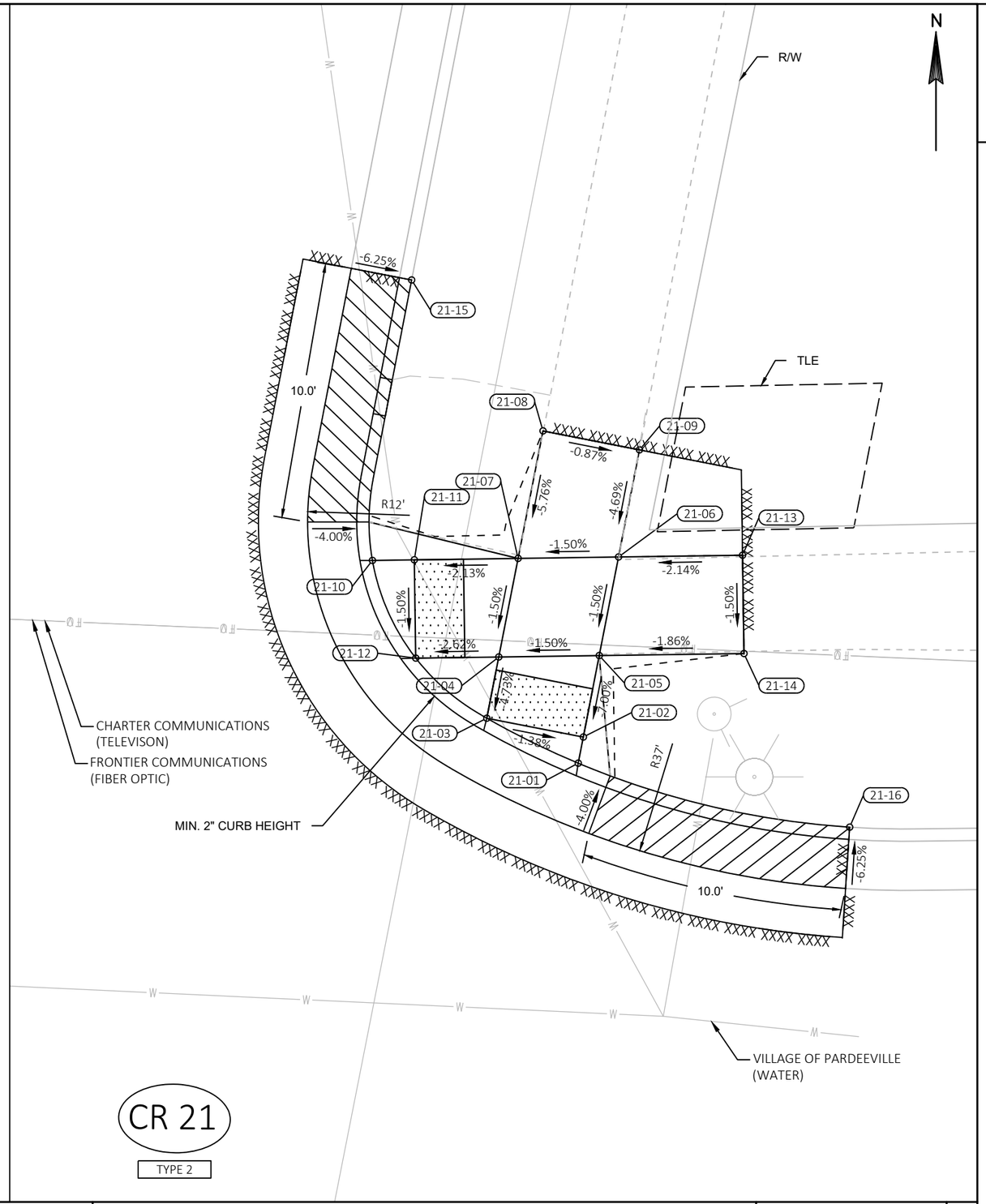
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CURB RAMP DETAIL- CHESTNUT ST NORTHEAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
21-01	186+88.64	32.04'	RT	815.54	392729.30	579914.06
21-02	186+89.72	32.04'	RT	815.55	392730.36	579914.27
21-03	186+89.70	28.04'	RT	815.61	392731.13	579910.34
21-04	186+92.23	28.02'	RT	815.73	392733.62	579910.83
21-05	186+93.10	32.02'	RT	815.79	392733.68	579914.92
21-06	186+97.19	31.99'	RT	815.85	392737.69	579915.70
21-07	186+96.32	28.00'	RT	815.79	392737.63	579911.62
21-08	187+01.60	27.97'	RT	816.09	392742.82	579912.63
21-09	187+01.63	31.97'	RT	816.06	392742.05	579916.56
21-10	186+95.07	22.20'	RT	815.73	392737.55	579905.69
21-11	186+95.43	23.87'	RT	815.70	392737.57	579907.39
21-12	186+91.52	24.72'	RT	815.64	392733.58	579907.45
21-13	186+98.25	36.93'	RT	815.96	392737.76	579920.75
21-14	186+94.34	37.77'	RT	815.90	392733.77	579920.81
21-15	187+06.57	21.51'	RT	0.00	392748.96	579907.29
21-16	186+88.27	43.38'	RT	0.00	392726.70	579925.11

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B



CR 21

TYPE 2

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: CURB RAMPS - CHESTNUT ST NORTHEAST	SHEET : 42	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\SIDEWALK SHEETS 2.DWG
LAYOUT NAME - NORTHEAST CHESTNUT ST

PLOT DATE : 7/31/2019 9:38 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : _____ PLOT SCALE : 1 IN:5 FT

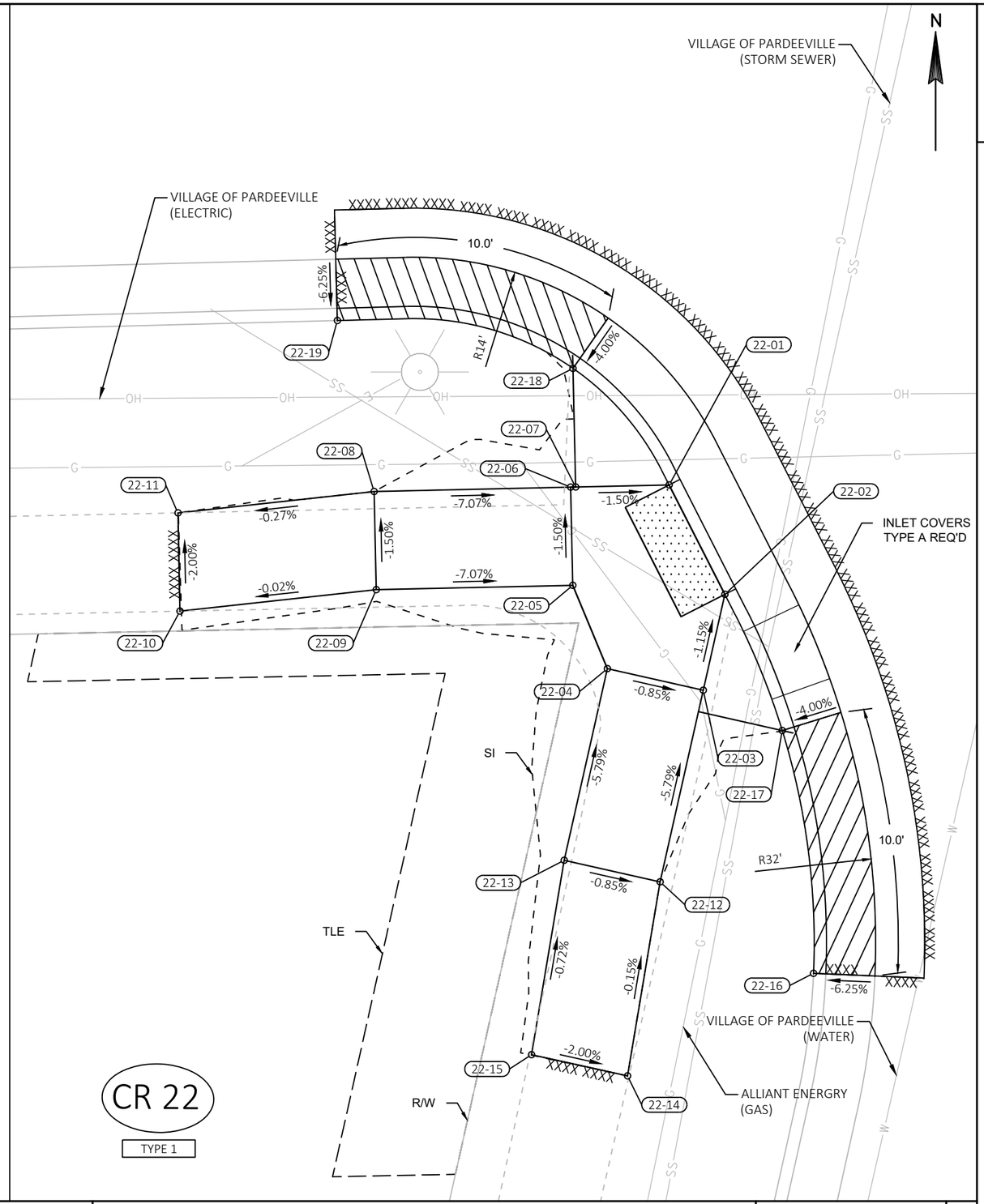
WISDOT/CADDS SHEET 42

CURB RAMP DETAIL- CHESTNUT SOUTHWEST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
22-01	186+21.65	29.92'	LT	0.00	392676.70	579839.42
22-02	186+17.80	26.73'	LT	0.00	392672.24	579841.69
22-03	186+13.80	26.73'	LT	816.19	392668.34	579840.81
22-04	186+13.80	30.73'	LT	816.19	392669.22	579836.91
22-05	186+16.80	32.85'	LT	816.15	392672.61	579835.50
22-06	186+20.68	33.82'	LT	816.15	392676.61	579835.41
22-07	186+20.73	33.62'	LT	816.15	392676.62	579835.61
22-08	186+18.75	41.58'	LT	816.43	392676.43	579827.41
22-09	186+14.87	40.62'	LT	816.62	392672.43	579827.50
22-10	186+12.27	48.22'	LT	816.62	392671.56	579819.51
22-11	186+16.15	49.18'	LT	816.62	392675.56	579819.43
22-12	186+05.80	26.74'	LT	816.43	392660.54	579839.05
22-13	186+05.80	30.74'	LT	816.62	392661.42	579835.15
22-14	185+97.80	26.30'	LT	816.43	392652.64	579837.73
22-15	185+97.79	30.30'	LT	816.62	392653.50	579833.82
22-16	186+03.53	19.83'	LT	0.00	392656.81	579845.30
22-17	186+12.90	23.24'	LT	0.00	392666.70	579844.02
22-18	186+25.42	34.78'	LT	0.00	392681.45	579835.51
22-19	186+25.22	44.57'	LT	0.00	392683.39	579825.91

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B



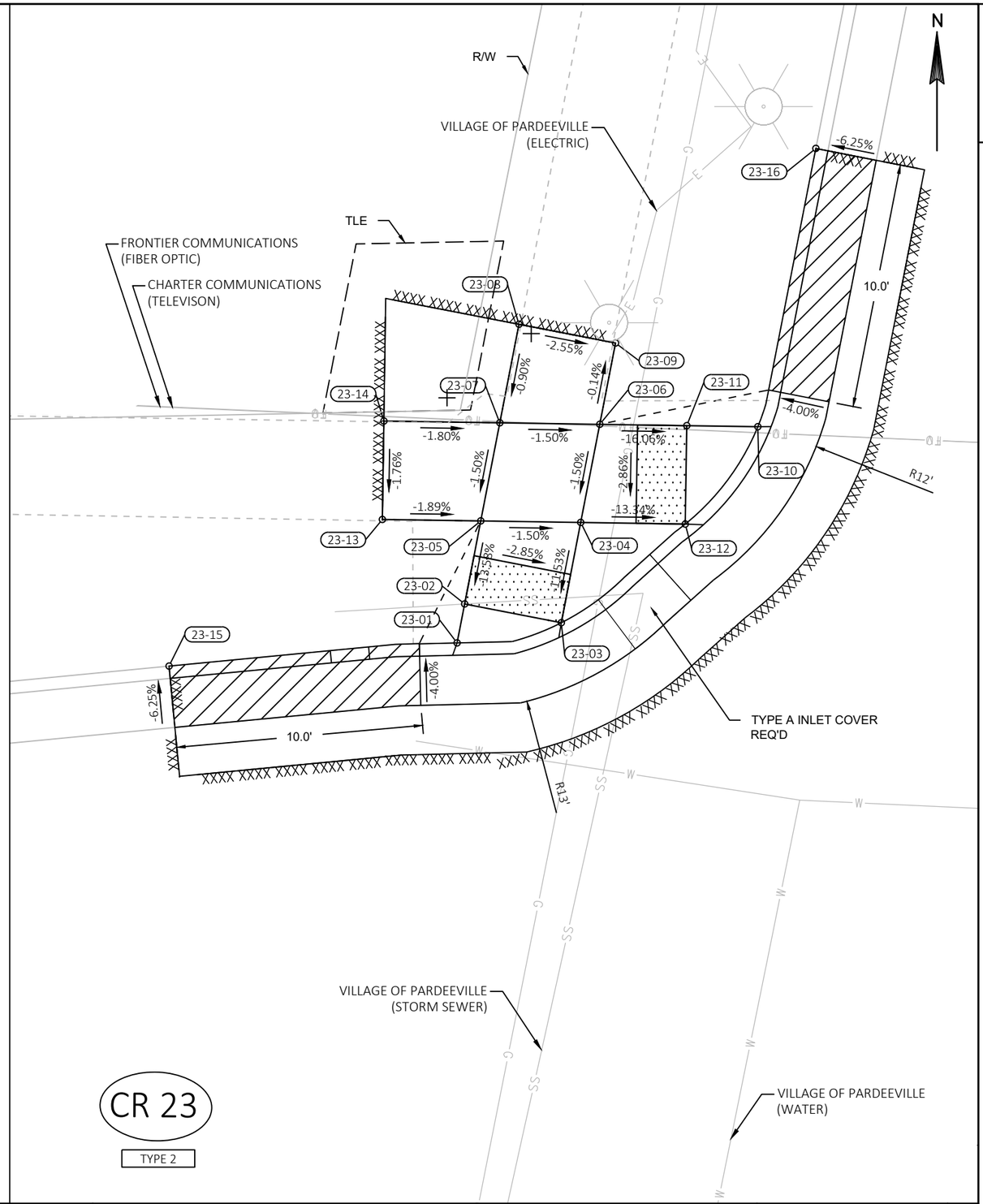
PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: CURB RAMPS - CHESTNUT ST SOUTHWEST	SHEET 43	E

CURB RAMP DETAIL- CHESTNUT ST NORTHWEST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
23-01	186+74.45	31.26'	LT	816.20	392727.91	579849.21
23-02	186+76.06	31.27'	LT	816.21	392729.49	579849.52
23-03	186+76.09	27.27'	LT	816.13	392728.73	579853.44
23-04	186+80.24	27.30'	LT	816.61	392732.80	579854.23
23-05	186+79.50	31.29'	LT	816.67	392732.86	579850.17
23-06	186+84.31	27.33'	LT	816.67	392736.79	579855.01
23-07	186+83.56	31.32'	LT	816.73	392736.85	579850.95
23-08	186+87.64	31.35'	LT	816.77	392740.85	579851.72
23-09	186+87.67	27.35'	LT	816.67	392740.09	579855.65
23-10	186+85.48	21.01'	LT	816.18	392736.69	579861.43
23-11	186+84.95	23.85'	LT	816.11	392736.74	579858.55
23-12	186+81.02	23.12'	LT	816.05	392732.74	579858.48
23-13	186+78.77	35.22'	LT	816.75	392732.92	579846.17
23-14	186+82.70	35.96'	LT	816.82	392736.92	579846.23
23-15	186+71.21	42.55'	LT	0.00	392726.96	579837.50
23-16	186+97.03	20.93'	LT	816.71	392748.00	579863.79

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B

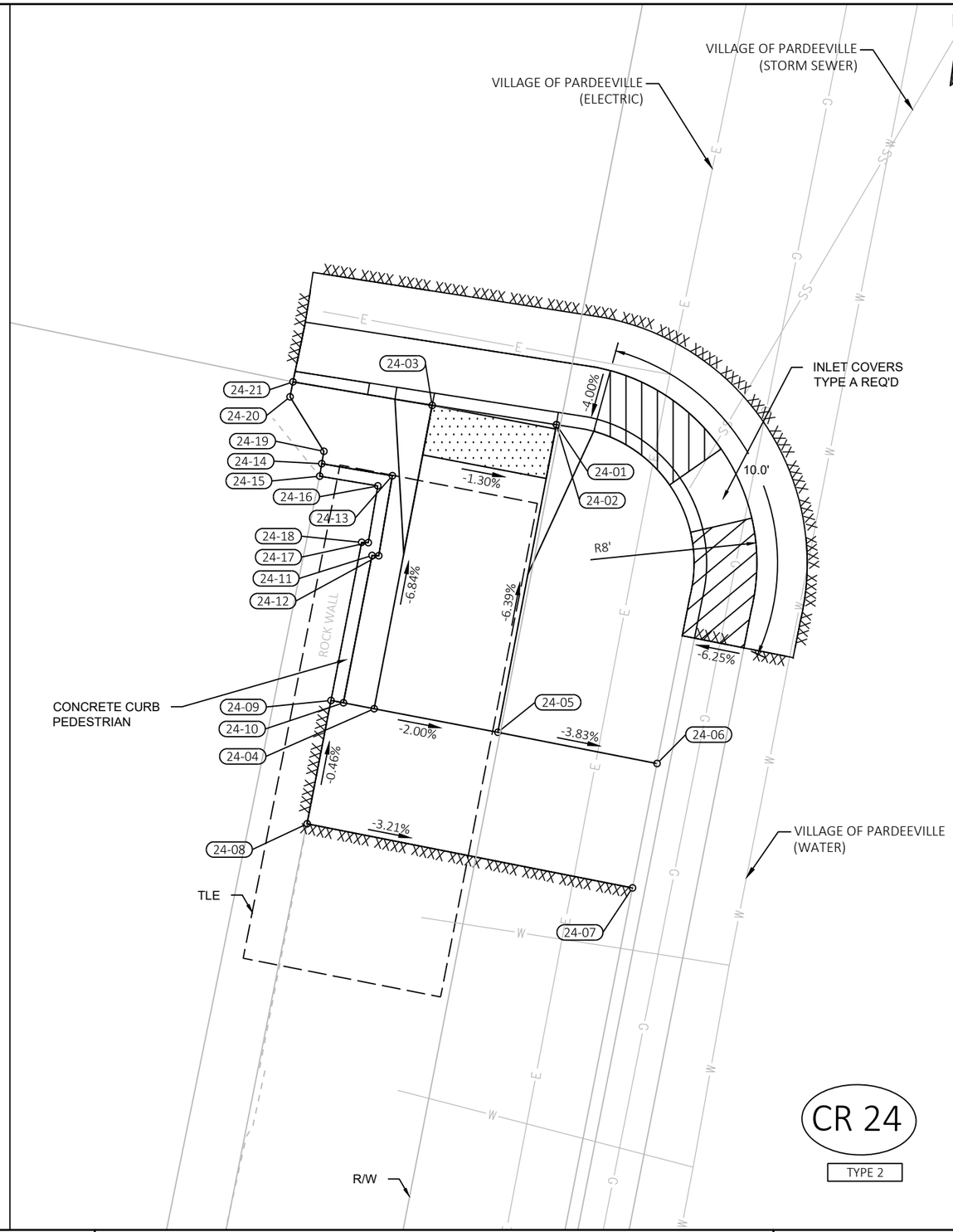


CURB RAMP DETAIL- ALLEY ST SOUTH WEST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
24-01	192+93.94	33.15'	LT	815.12	393335.84	579967.32
24-02	192+93.94	33.15'	LT	815.12	393335.84	579967.32
24-03	192+93.75	38.15'	LT	815.20	393336.61	579962.37
24-04	192+81.47	38.11'	LT	816.02	393324.55	579960.06
24-05	192+81.49	33.10'	LT	815.91	393323.61	579964.98
24-06	192+81.48	26.64'	LT	815.66	393322.37	579971.31
24-07	192+76.45	26.65'	LT	815.63	393317.42	579970.34
24-08	192+76.46	39.85'	LT	816.06	393319.97	579957.40
24-09	192+81.46	39.85'	LT	816.04	393324.88	579958.35
24-10	192+81.46	39.35'	LT	816.03	393324.78	579958.84
24-11	192+87.43	39.36'	LT	815.20	393330.64	579959.98
24-12	192+87.47	39.09'	LT	815.64	393330.63	579960.25
24-13	192+90.70	39.17'	LT	815.20	393333.81	579960.79
24-14	192+90.63	42.02'	LT	815.20	393334.29	579957.98
24-15	192+90.13	42.01'	LT	815.20	393333.80	579957.90
24-16	192+90.19	39.66'	LT	815.20	393333.41	579960.21
24-17	192+87.90	39.60'	LT	816.21	393331.15	579959.83
24-18	192+87.86	39.86'	LT	815.20	393331.16	579959.57
24-19	192+91.13	42.03'	LT	815.88	393334.78	579958.06
24-20	192+93.00	43.77'	LT	815.44	393336.95	579956.72
24-21	192+93.60	43.77'	LT	815.44	393337.54	579956.83

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B



CR 24

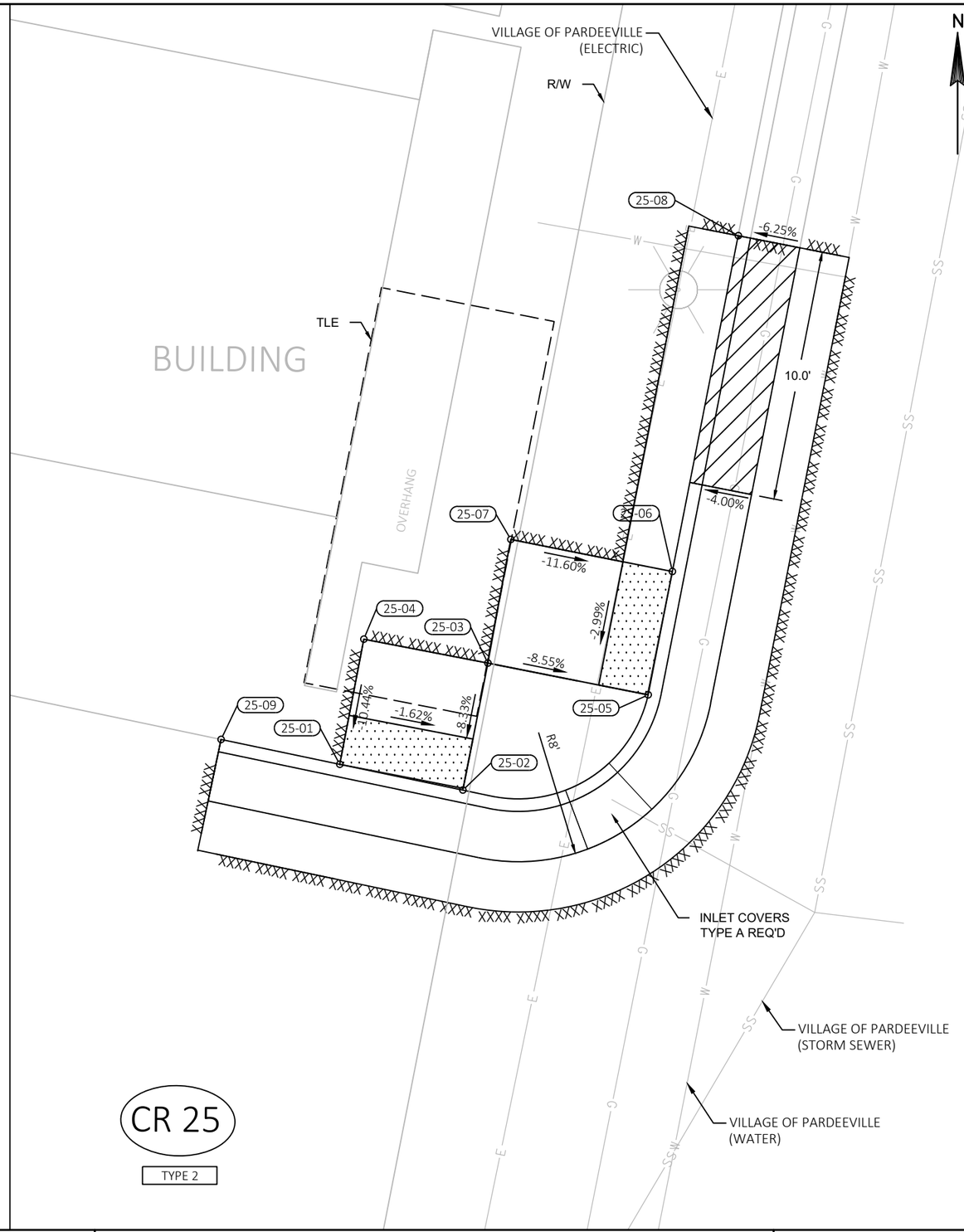
TYPE 2

CURB RAMP DETAIL- ALLEY ST NORTHWEST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
25-01	193+19.81	38.25'	LT	815.50	393362.20	579967.27
25-02	193+19.74	33.25'	LT	815.45	393361.18	579972.16
25-03	193+24.89	33.24'	LT	815.87	393366.23	579973.16
25-04	193+24.87	38.27'	LT	816.03	393367.18	579968.23
25-05	193+24.87	26.75'	LT	815.31	393364.97	579979.53
25-06	193+29.87	26.74'	LT	815.40	393369.87	579980.50
25-07	193+29.89	33.29'	LT	816.16	393371.15	579974.07
25-08	193+43.48	26.73'	LT	815.79	393383.22	579983.12
25-09	193+19.87	43.08'	LT	815.54	393363.19	579962.55

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B

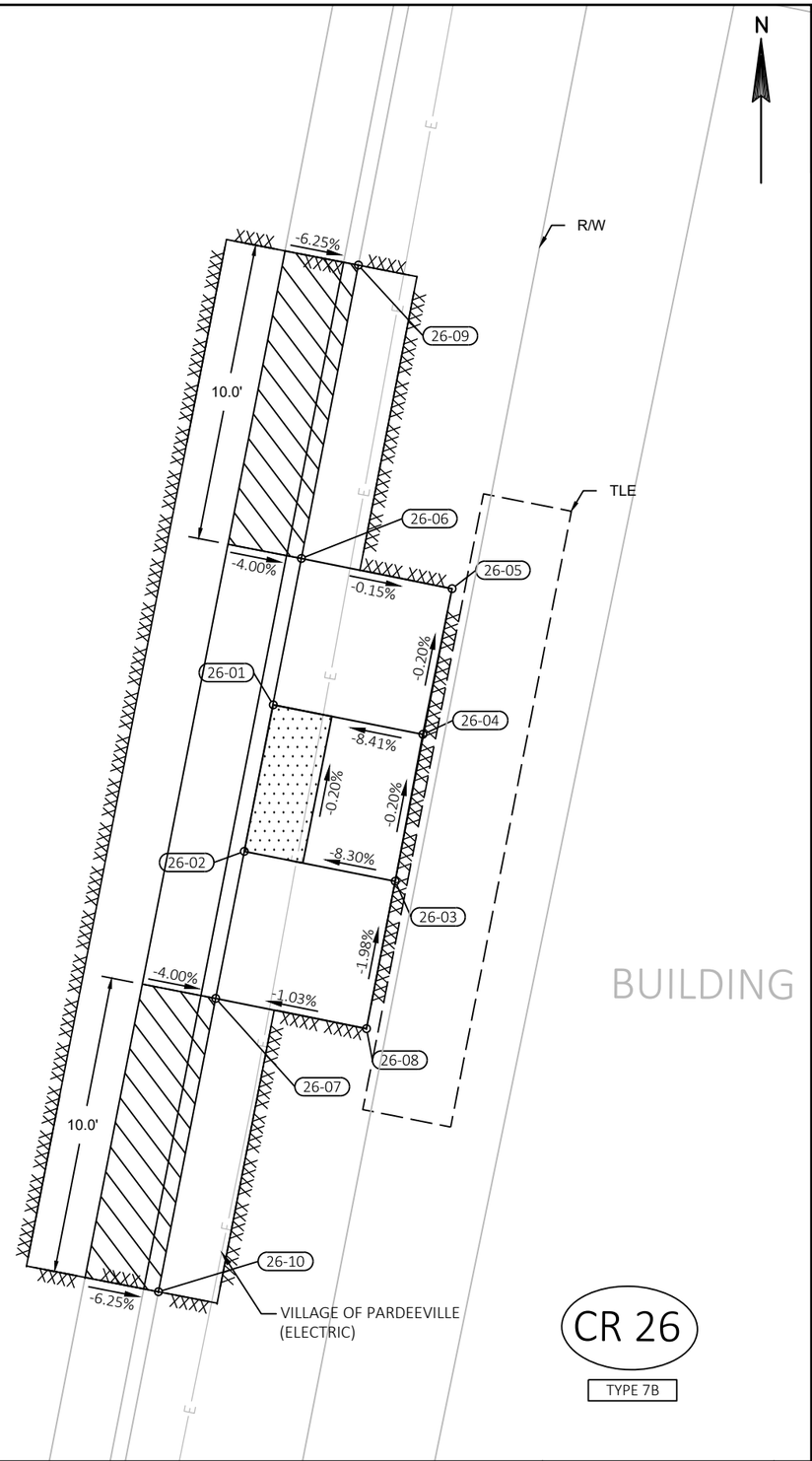


CR 25

TYPE 2

CURB RAMP DETAIL- ALLEY ST NORTHEAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
26-01	193+29.77	27.18'	RT	814.82	393359.43	580033.40
26-02	193+24.77	27.17'	RT	814.83	393354.53	580032.43
26-03	193+24.76	32.32'	RT	815.26	393353.53	580037.48
26-04	193+29.76	32.29'	RT	815.25	393358.44	580038.41
26-05	193+34.73	32.31'	RT	815.24	393363.32	580039.39
26-06	193+34.75	27.17'	RT	815.25	393364.33	580034.34
26-07	193+19.76	27.17'	RT	815.31	393349.61	580031.47
26-08	193+19.73	32.32'	RT	815.36	393348.59	580036.52
26-09	193+44.75	27.16'	RT	815.19	393374.14	580036.25
26-10	193+09.76	27.18'	RT	815.36	393339.79	580029.56

LEGEND	
——— ———	RIGHT OF WAY (R/W)
- - - - - - - - -	SLOPE INTERCEPT (SI)
— — — — —	TEMPORARY LIMITED EASEMENT (TLE)
. XXXX XXXX XXXX .	SAWING ASPHALT SAWING CONCRETE
	CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
	CURB RAMP DETECTABLE WARNING FIELD YELLOW
REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B	

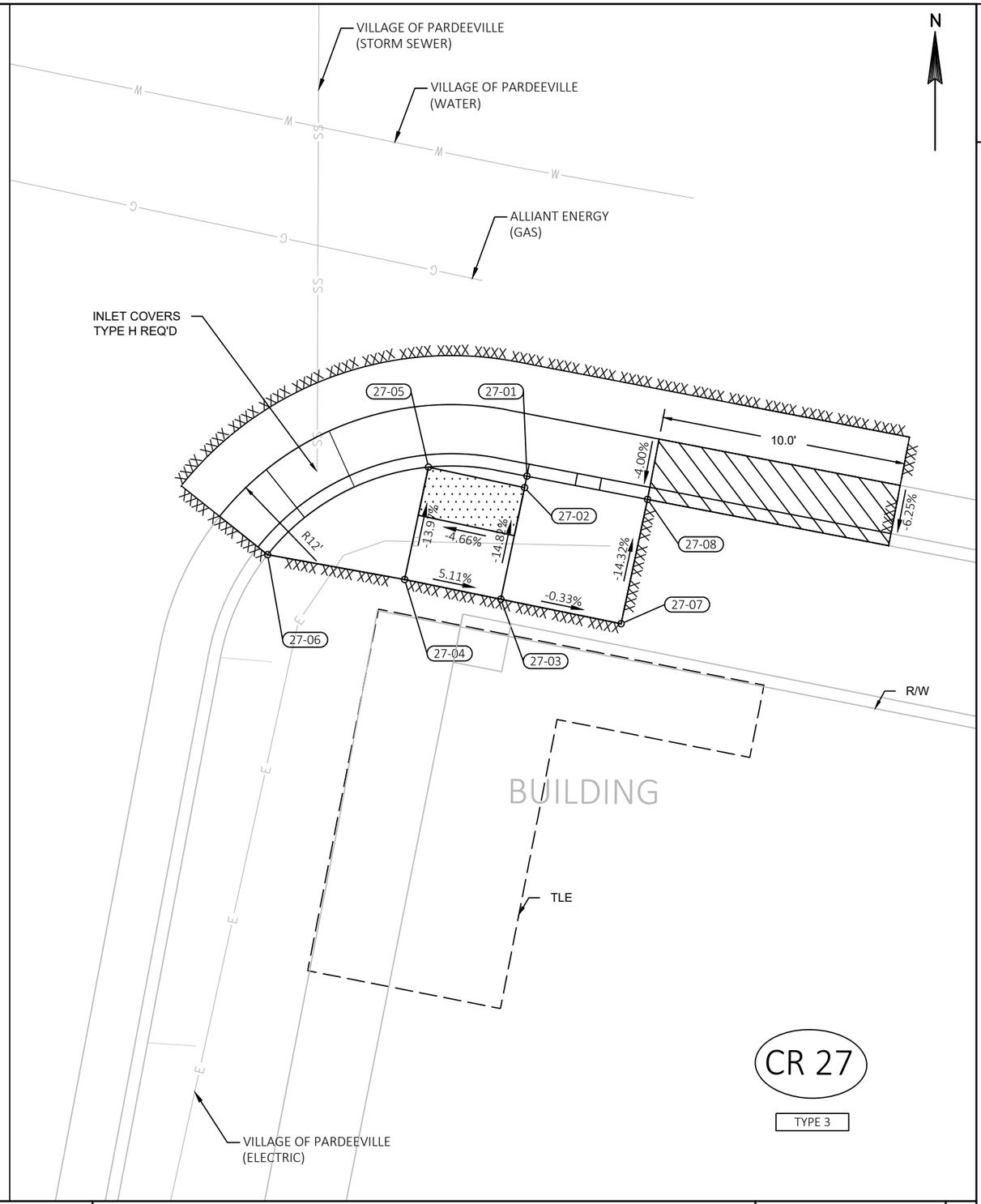


CURB RAMP DETAIL- LAKE ST SOUTHEAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
27-01	196+06.91	38.00'	RT	812.80	393629.81	580097.08
27-02	196+06.44	37.99'	RT	812.87	393629.35	580096.98
27-03	196+01.80	37.86'	RT	813.55	393624.81	580096.02
27-04	196+01.88	33.86'	RT	813.35	393625.61	580092.10
27-05	196+06.55	33.99'	RT	812.70	393630.18	580093.07
27-06	196+01.86	28.19'	RT	812.89	393626.62	580086.52
27-07	196+01.70	42.85'	RT	813.54	393623.81	580100.92
27-08	196+06.87	43.00'	RT	812.80	393628.87	580101.99

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B

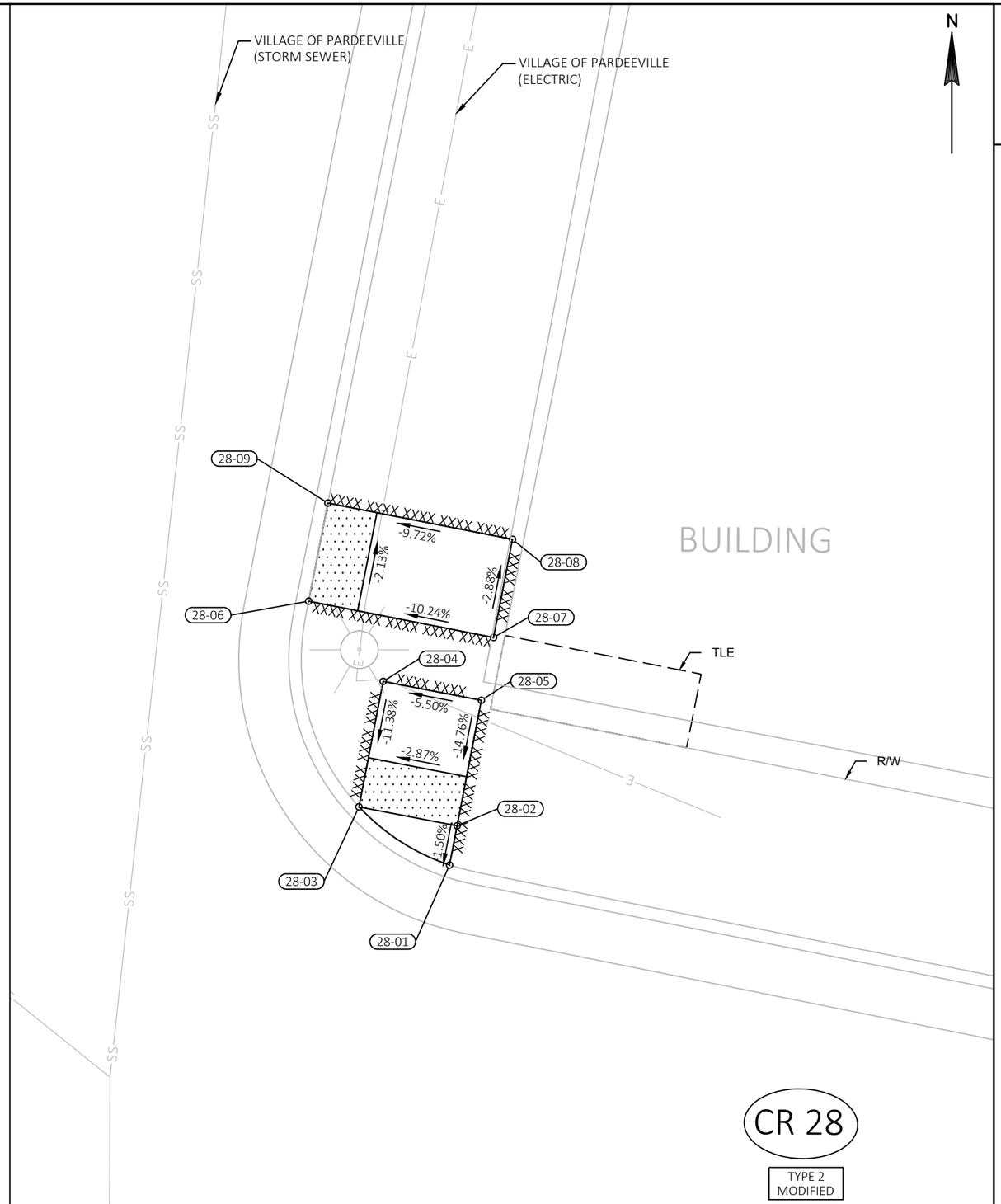


CURB RAMP DETAIL- LAKE ST NORTHEAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
28-01	196+60.06	33.53'	RT	812.64	393682.89	580102.29
28-02	196+61.66	33.54'	RT	812.66	393684.46	580102.59
28-03	196+61.69	29.54'	RT	812.61	393685.22	580098.66
28-04	196+66.81	29.59'	RT	813.20	393690.24	580099.63
28-05	196+66.77	33.59'	RT	813.42	393689.48	580103.56
28-06	196+69.42	26.08'	RT	812.62	393693.45	580096.65
28-07	196+69.33	33.61'	RT	813.39	393691.99	580104.05
28-08	196+73.33	33.65'	RT	813.28	393695.92	580104.80
28-09	196+73.42	26.13'	RT	812.55	393697.37	580097.42

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B



CR 28

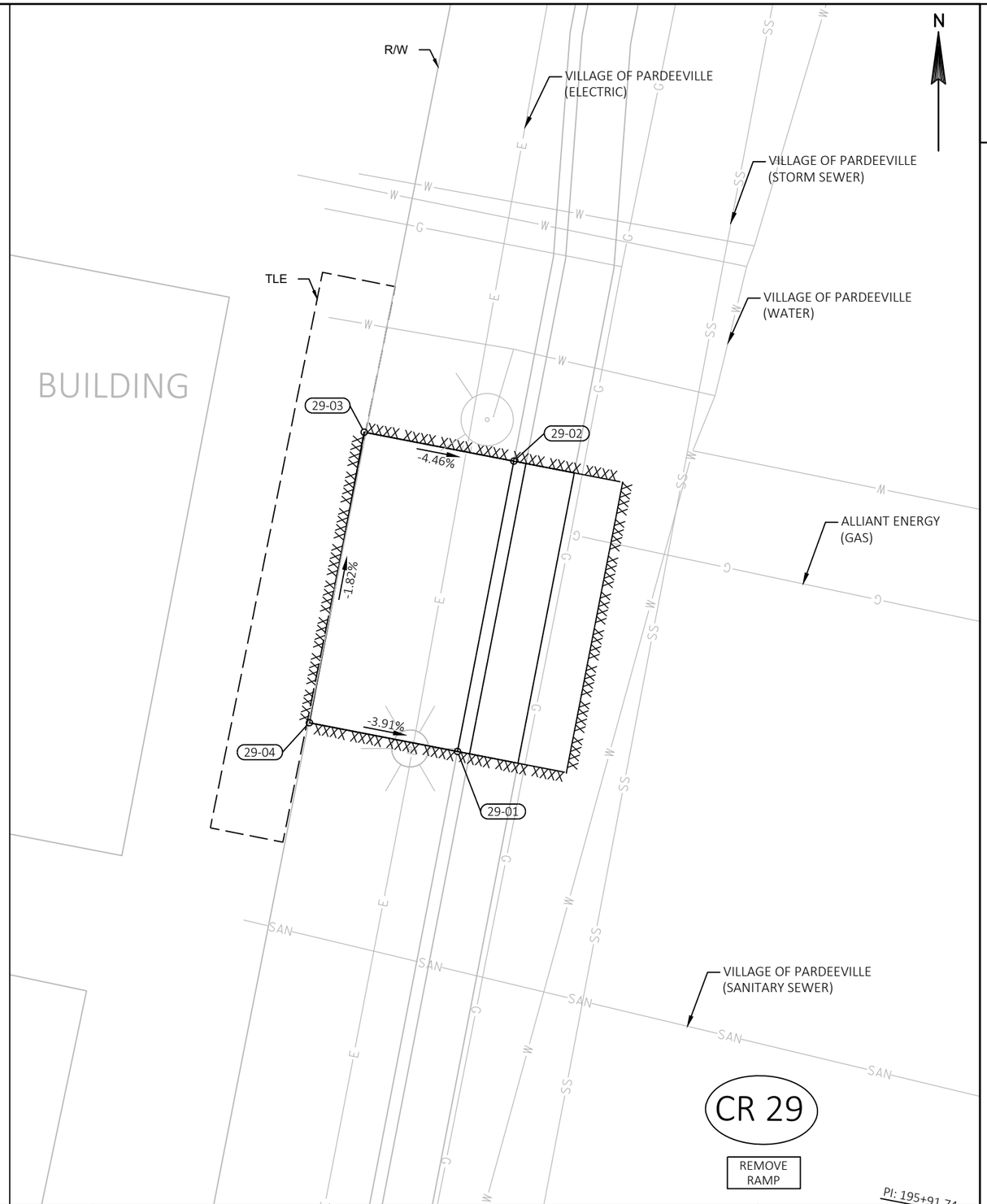
TYPE 2 MODIFIED

CURB RAMP DETAIL- LAKE ST SOUTHWEST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
29-01	196+06.56	26.65'	LT	813.48	393641.14	580033.43
29-02	196+18.56	26.53'	LT	813.23	393652.92	580035.72
29-03	196+18.61	32.72'	LT	813.50	393654.10	580029.65
29-04	196+06.61	32.78'	LT	813.72	393642.30	580027.42

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B

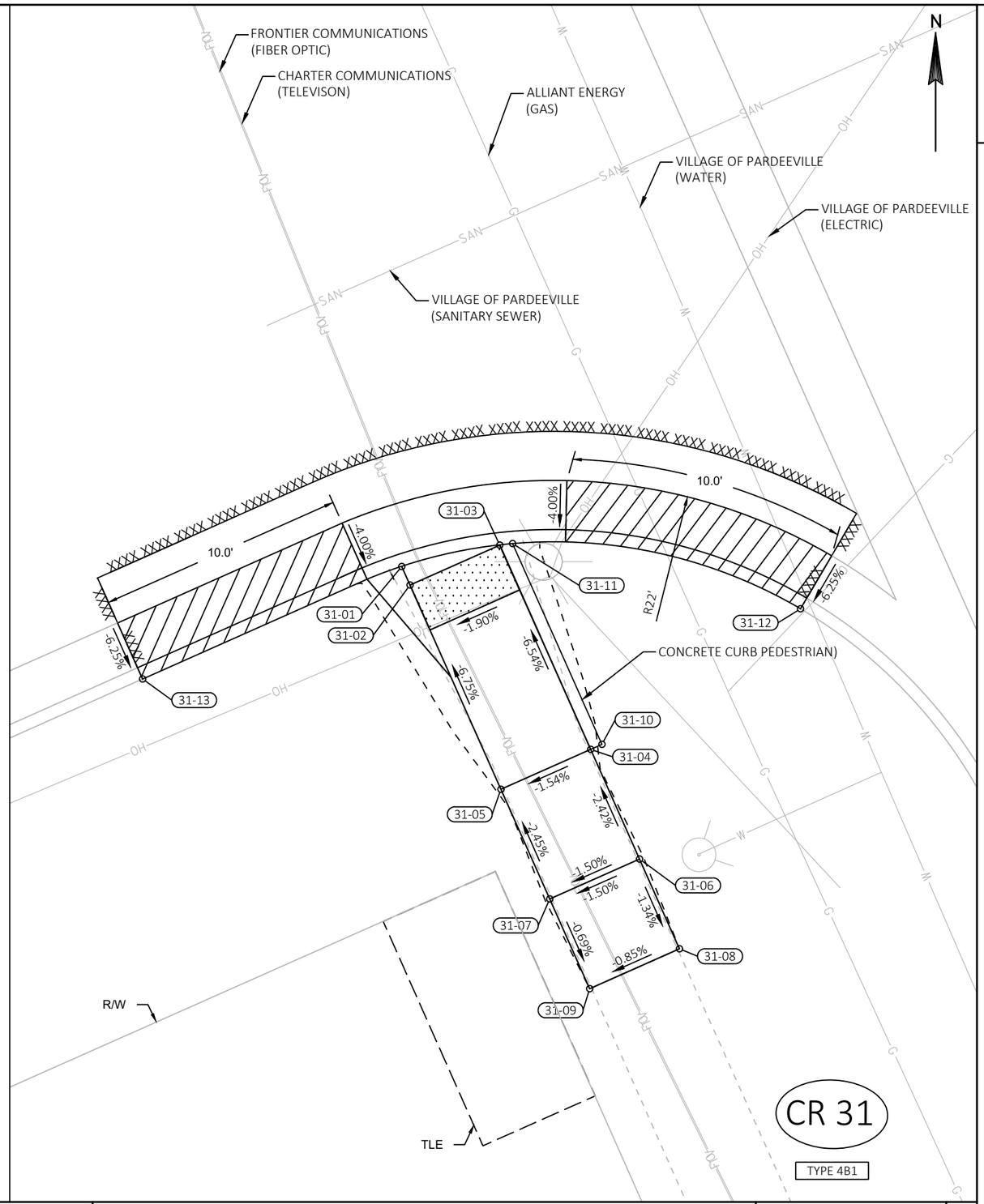


CURB RAMP DETAIL- MORTON ST SOUTHWEST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
31-01	211+11.59	40.25'	LT	818.22	395017.82	579608.13
31-02	211+10.77	40.25'	LT	818.24	395017.06	579608.46
31-03	211+10.76	36.25'	LT	818.32	395018.69	579612.12
31-04	211+01.66	36.26'	LT	818.91	395010.37	579615.82
31-05	211+01.67	40.26'	LT	818.85	395008.75	579612.16
31-06	210+96.77	36.27'	LT	819.03	395005.91	579617.80
31-07	210+96.78	40.27'	LT	818.97	395004.28	579614.15
31-08	210+92.77	36.28'	LT	818.98	395002.25	579619.43
31-09	210+92.78	40.28'	LT	818.94	395000.63	579615.78
31-10	211+01.66	35.76'	LT	818.91	395010.58	579616.27
31-11	211+10.60	35.75'	LT	818.82	395018.75	579612.64
31-12	211+03.40	26.13'	LT	819.08	395016.10	579624.36
31-13	211+11.72	51.74'	LT	818.61	395013.24	579597.58

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B

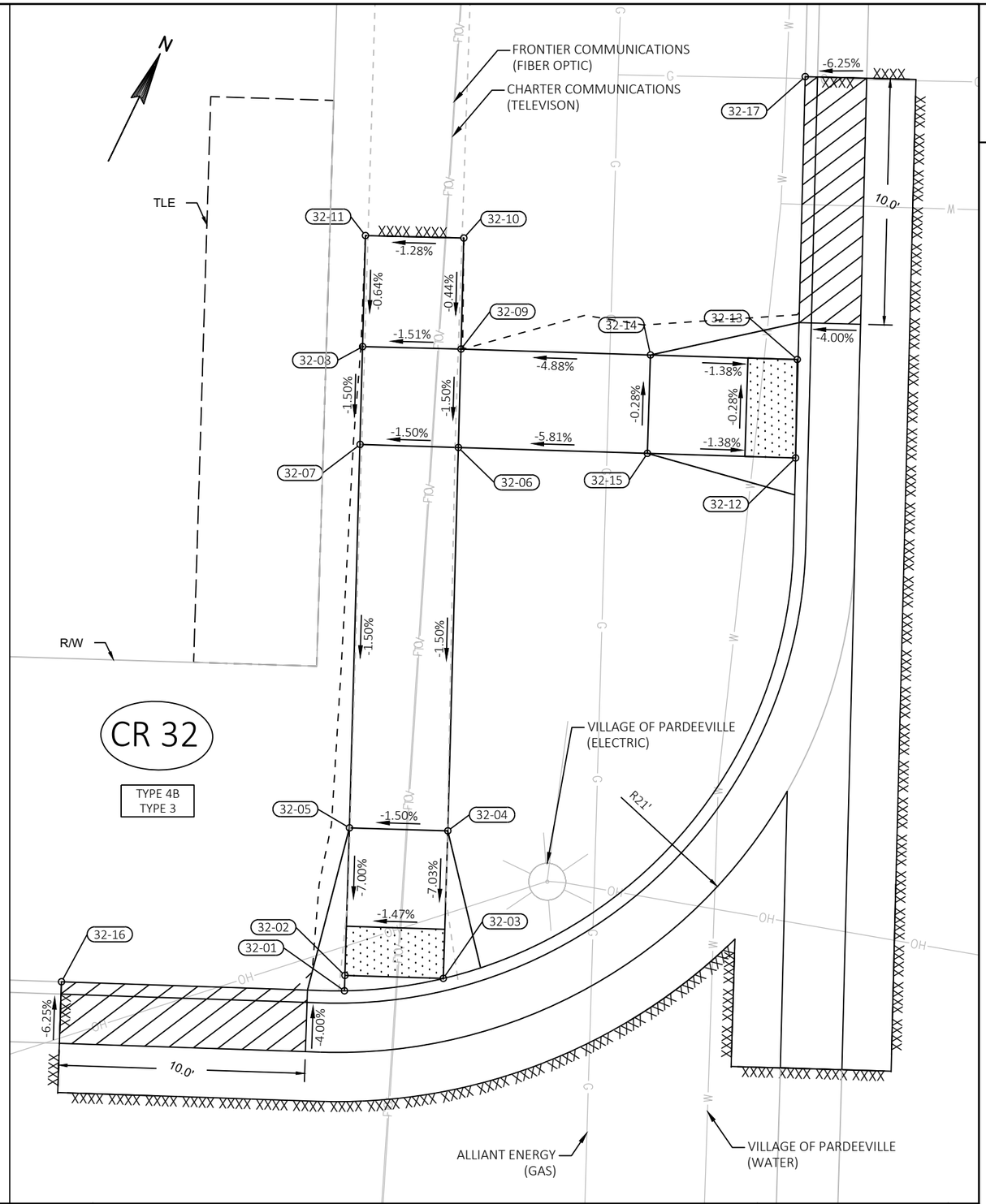


CURB RAMP DETAILS- MORTON ST NORTHWEST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
32-01	211+51.55	40.17'	LT	817.85	395054.32	579591.88
32-02	211+52.17	40.17'	LT	817.85	395054.89	579591.63
32-03	211+52.17	36.17'	LT	817.91	395056.52	579595.28
32-04	211+58.17	36.16'	LT	818.33	395062.00	579592.84
32-05	211+58.17	40.16'	LT	818.27	395060.37	579589.19
32-06	211+73.75	36.17'	LT	818.56	395076.22	579586.47
32-07	211+73.76	40.17'	LT	818.50	395074.60	579582.82
32-08	211+77.74	40.18'	LT	818.56	395078.22	579581.18
32-09	211+77.75	36.18'	LT	818.62	395079.87	579584.83
32-10	211+82.27	36.19'	LT	818.64	395083.98	579582.97
32-11	211+82.25	40.19'	LT	818.59	395082.34	579579.33
32-12	211+73.71	22.47'	LT	818.93	395081.78	579598.99
32-13	211+77.71	22.52'	LT	818.92	395085.41	579597.31
32-14	211+77.73	28.48'	LT	819.00	395082.99	579591.87
32-15	211+73.73	28.49'	LT	819.01	395079.34	579593.49
32-16	211+51.59	51.67'	LT	0.00	395049.66	579581.37
32-17	211+89.22	22.52'	LT	0.00	395095.91	579592.62

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B

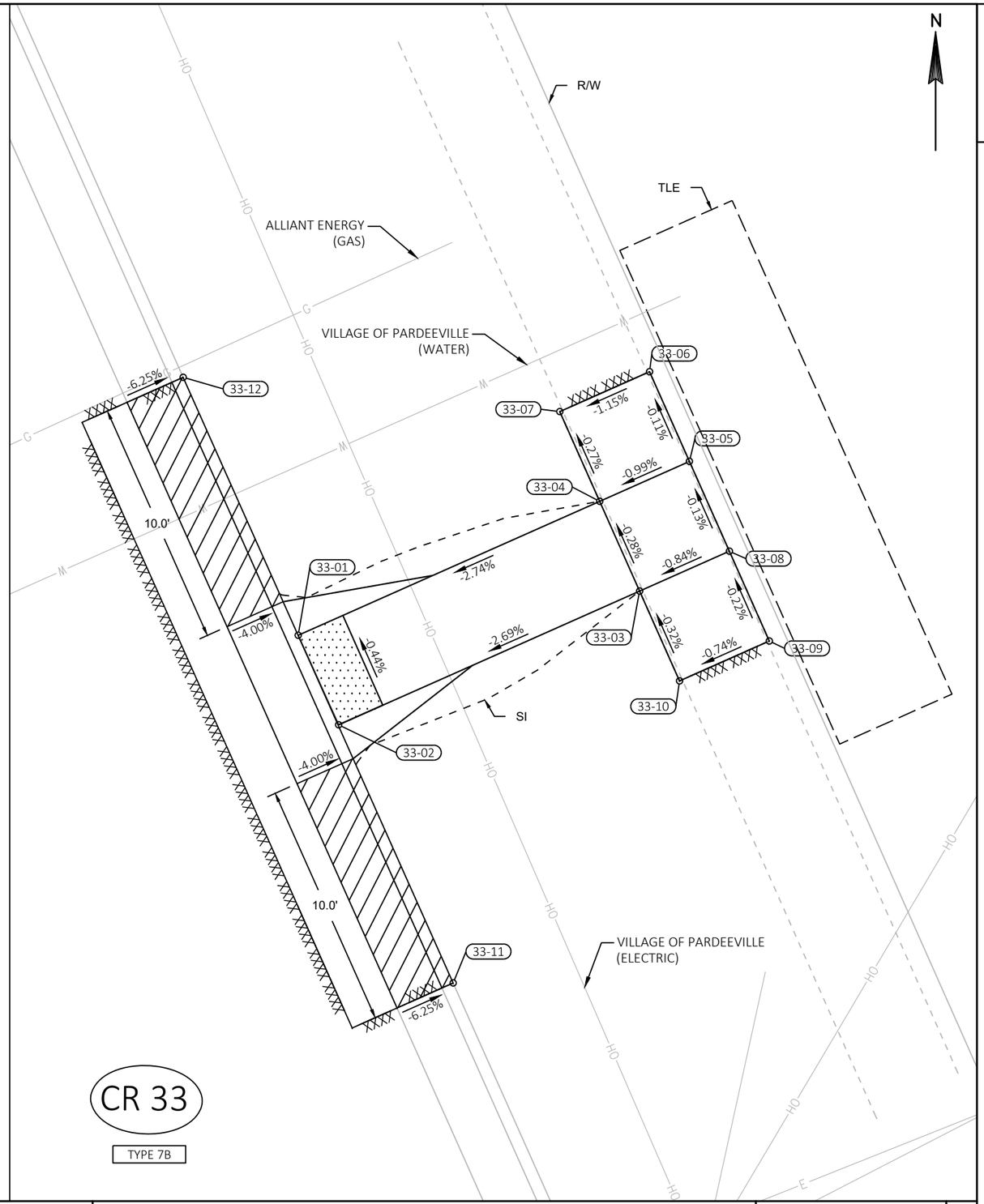


CURB RAMP DETAIL- MORTON ST NORTHEAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
33-01	211+77.60	22.51'	RT	818.78	395103.70	579638.46
33-02	211+73.60	22.53'	RT	818.80	395100.05	579640.11
33-03	211+73.57	35.93'	RT	819.16	395105.50	579652.36
33-04	211+77.57	35.94'	RT	819.15	395109.15	579650.74
33-05	211+77.57	39.94'	RT	819.19	395110.78	579654.39
33-06	211+81.56	39.95'	RT	819.19	395114.43	579652.77
33-07	211+81.57	35.95'	RT	819.14	395112.80	579649.11
33-08	211+73.56	39.93'	RT	819.20	395107.12	579656.02
33-09	211+69.56	39.92'	RT	819.20	395103.47	579657.64
33-10	211+69.57	35.92'	RT	819.17	395101.84	579653.99
33-11	211+62.10	22.49'	RT	819.05	395089.54	579644.77
33-12	211+89.10	22.53'	RT	819.25	395114.20	579633.78

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B

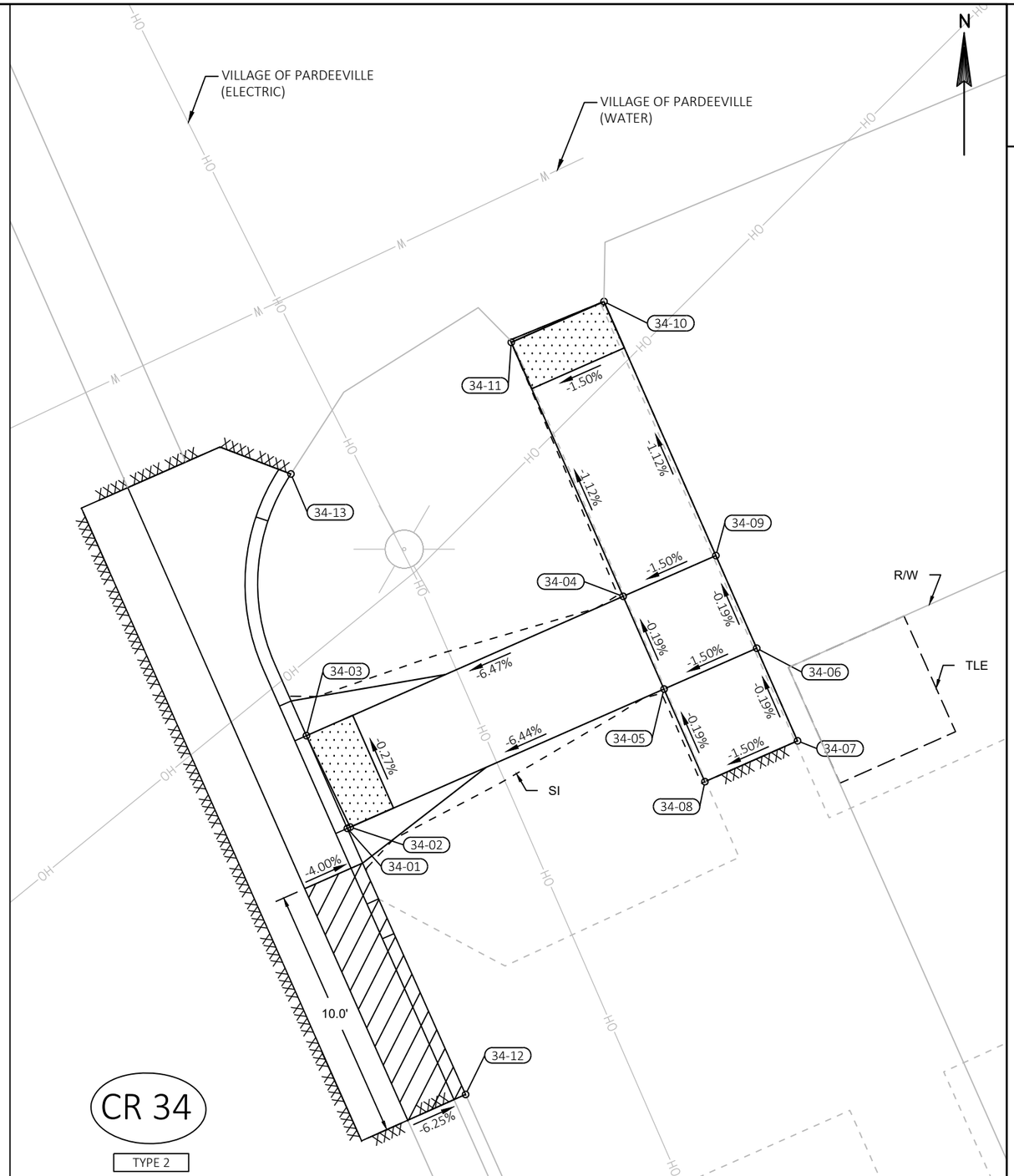


CURB RAMP DETAIL- RIVER ST SOUTHEAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
34-01	213+30.66	22.61'	RT	818.36	395243.45	579576.06
34-02	213+30.66	22.73'	RT	818.37	395243.51	579576.18
34-03	213+34.66	22.62'	RT	818.35	395247.11	579574.45
34-04	213+34.58	36.29'	RT	819.24	395252.62	579586.96
34-05	213+30.58	36.27'	RT	819.25	395248.96	579588.57
34-06	213+30.55	40.27'	RT	819.31	395250.57	579592.23
34-07	213+26.55	40.25'	RT	819.31	395246.91	579593.85
34-08	213+26.58	36.25'	RT	819.25	395245.30	579590.19
34-09	213+34.55	40.29'	RT	819.30	395254.23	579590.62
34-10	213+45.52	40.36'	RT	819.17	395264.26	579586.20
34-11	213+45.54	36.36'	RT	819.11	395262.65	579582.54
34-12	213+19.16	22.58'	RT	0.00	395232.94	579580.74
34-13	213+44.35	26.29'	RT	0.00	395257.45	579573.84

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B



CR 34

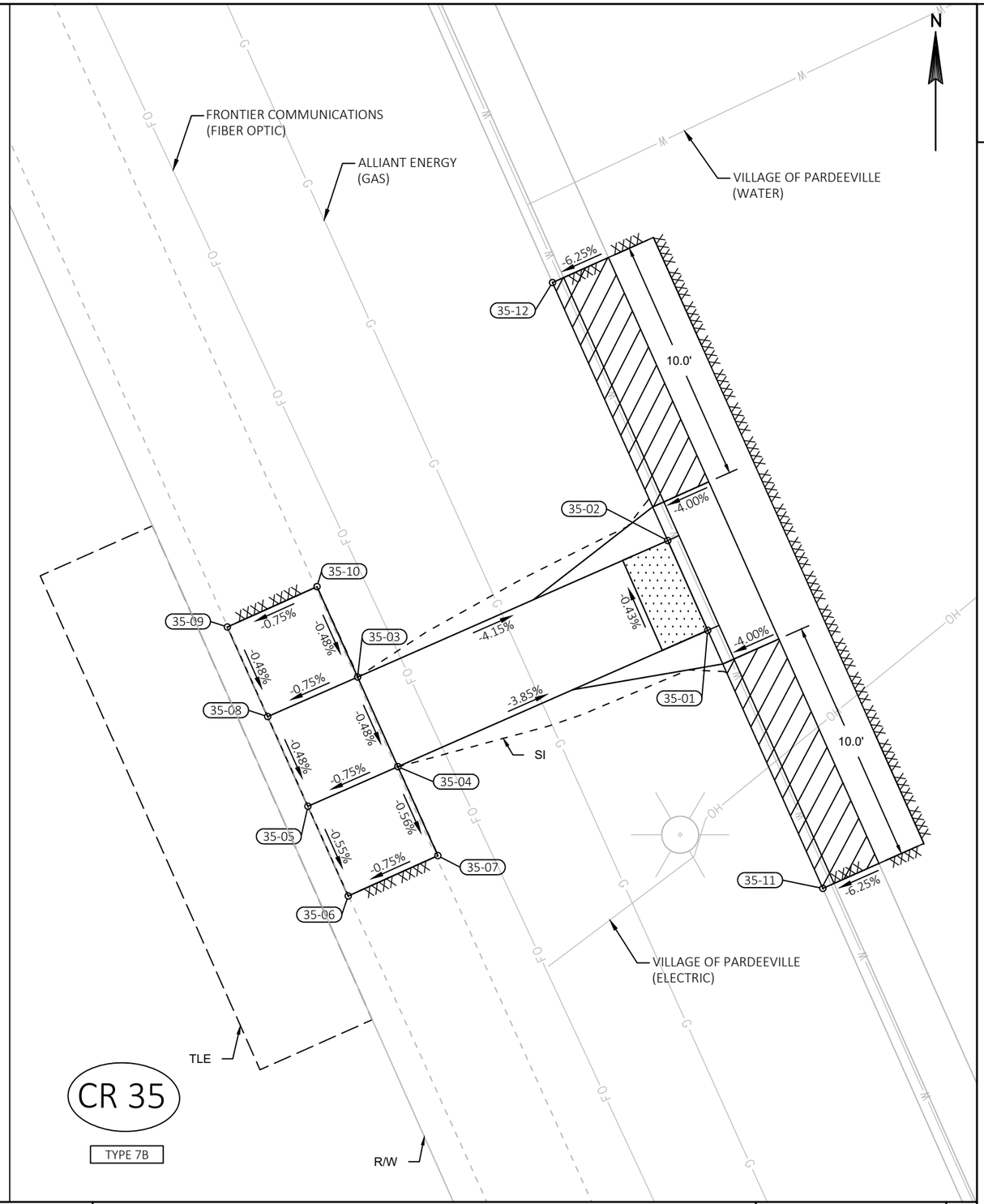
TYPE 2

CURB RAMP DETAIL- RIVER ST SOUTHWEST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
35-01	213+30.94	22.48'	LT	818.66	395225.30	579534.79
35-02	213+34.94	22.47'	LT	818.64	395228.96	579533.17
35-03	213+35.02	36.26'	LT	819.21	395223.41	579520.55
35-04	213+31.02	36.25'	LT	819.19	395219.76	579522.19
35-05	213+31.05	40.25'	LT	819.16	395218.15	579518.53
35-06	213+27.05	40.24'	LT	819.14	395214.50	579520.16
35-07	213+27.05	36.24'	LT	819.17	395216.14	579523.81
35-08	213+35.05	40.26'	LT	819.18	395221.79	579516.89
35-09	213+39.05	40.27'	LT	819.20	395225.44	579515.25
35-10	213+39.05	36.27'	LT	819.23	395227.08	579518.89
35-11	213+19.44	22.48'	LT	0.00	395214.80	579539.49
35-12	213+46.44	22.46'	LT	0.00	395239.46	579528.48

LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B

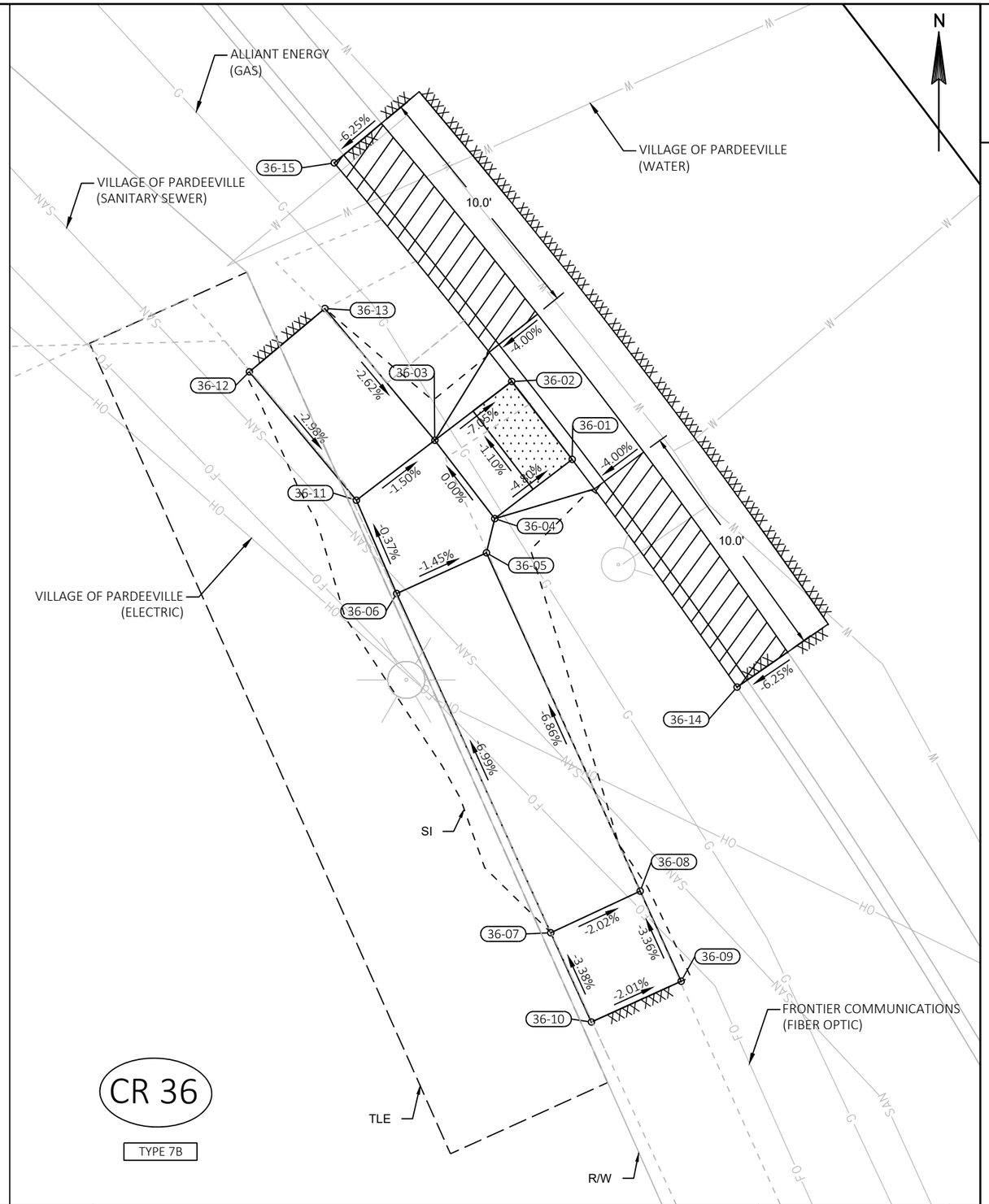


CURB RAMP DETAIL- TRAIL CROSSING WEST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
36-01	219+82.15	19.94'	LT	806.90	395811.34	579263.02
36-02	219+86.33	19.99'	LT	806.81	395814.50	579260.57
36-03	219+86.32	23.91'	LT	807.08	395812.11	579257.45
36-04	219+82.11	23.89'	LT	807.08	395808.94	579259.88
36-05	219+81.16	25.00'	LT	807.10	395807.55	579259.54
36-06	219+82.06	28.90'	LT	807.16	395805.89	579255.90
36-07	219+66.24	31.91'	LT	808.22	395792.13	579262.15
36-08	219+65.51	27.97'	LT	808.14	395793.82	579265.78
36-09	219+61.30	28.68'	LT	808.27	395790.16	579267.44
36-10	219+62.05	32.62'	LT	808.35	395788.50	579263.80
36-11	219+86.32	27.92'	LT	807.15	395809.68	579254.27
36-12	219+93.52	28.16'	LT	807.35	395814.89	579249.92
36-13	219+93.65	24.16'	LT	807.27	395817.46	579252.99
36-14	219+70.25	19.99'	LT	0.00	395802.10	579269.71
36-15	219+98.25	20.19'	LT	0.00	395823.37	579253.37

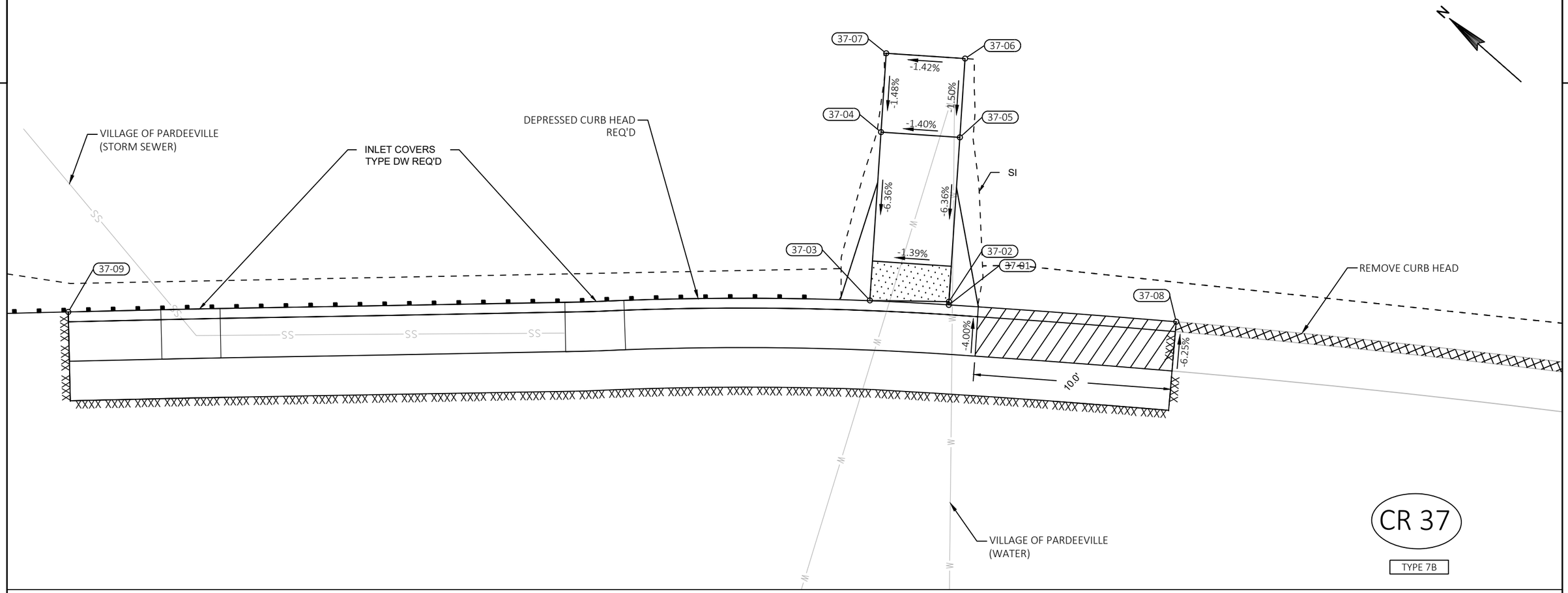
LEGEND

- RIGHT OF WAY (R/W)
- SLOPE INTERCEPT (SI)
- TEMPORARY LIMITED EASEMENT (TLE)
- XXXX XXXX XXXX — SAWING ASPHALT / SAWING CONCRETE
- CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM
USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B

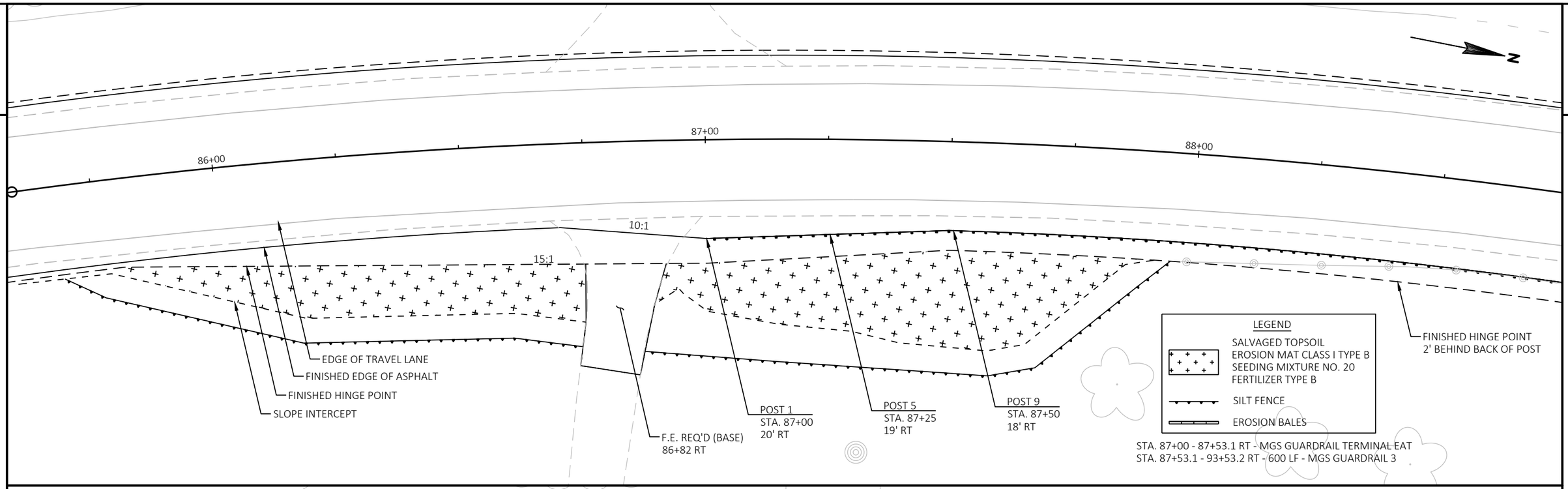


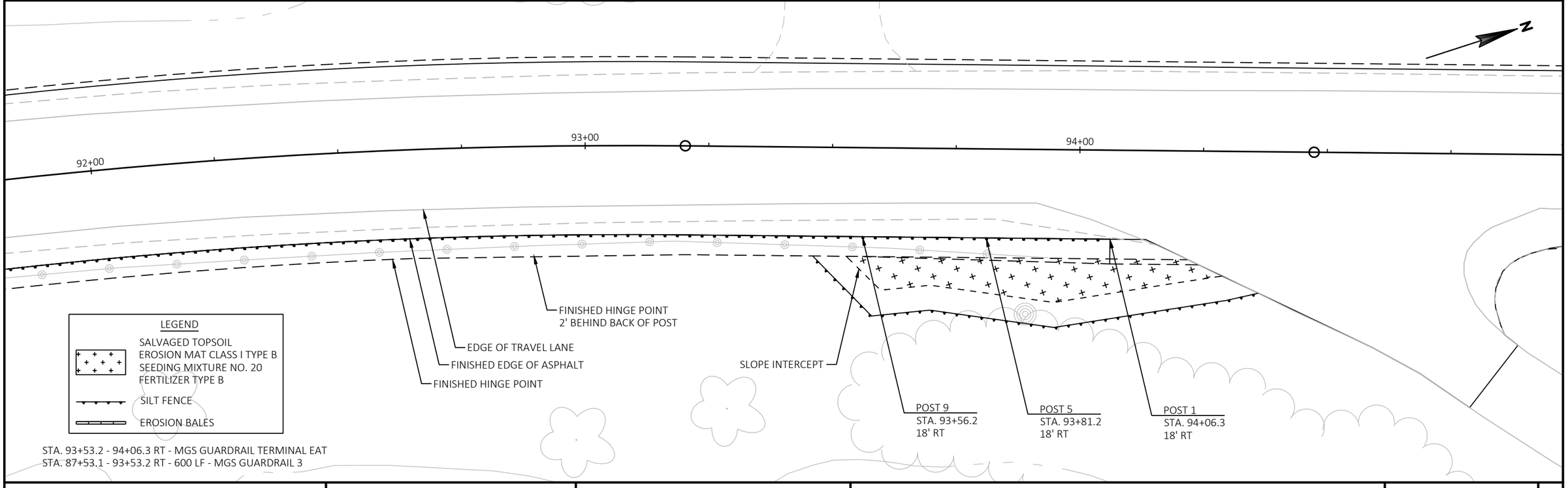
2



LEGEND	
——— ———	RIGHT OF WAY (R/W)
- - - - - - - - -	SLOPE INTERCEPT (SI)
— — — — —	TEMPORARY LIMITED EASEMENT (TLE)
. XXXX XXXX XXXX .	SAWING ASPHALT SAWING CONCRETE
	CONCRETE CURB & GUTTER 30-INCH TYPE D (GUTTER SLOPE TRANSITION FROM 6.25% TO 4%)
	CURB RAMP DETECTABLE WARNING FIELD YELLOW
REPLACE TOPSOIL WITH "SALVAGED TOPSOIL" ITEM USE SEEDING MIXTURE NO. 40, MULCHING, AND FERTILIZER TYPE B	

CURB RAMP DETAIL- TRAIL CROSSING EAST						
POINT NUMBER	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
37-01	219+82.55	23.60'	RT	808.25	395837.78	579297.60
37-02	219+82.55	23.76'	RT	808.26	395837.89	579297.73
37-03	219+86.36	23.54'	RT	808.19	395840.94	579295.14
37-04	219+86.37	32.08'	RT	808.73	395846.13	579301.93
37-05	219+82.62	32.10'	RT	808.79	395842.95	579304.35
37-06	219+82.65	36.10'	RT	808.85	395845.38	579307.53
37-07	219+86.37	36.08'	RT	808.79	395848.56	579305.10
37-08	219+71.54	23.74'	RT	0.00	395828.56	579304.55
37-09	220+25.09	21.88'	RT	0.00	395871.09	579267.97


N
86+00
87+00
88+00
10:1
15:1
EDGE OF TRAVEL LANE
FINISHED EDGE OF ASPHALT
FINISHED HINGE POINT
SLOPE INTERCEPT
F.E. REQ'D (BASE)
86+82 RT
POST 1
STA. 87+00
20' RT
POST 5
STA. 87+25
19' RT
POST 9
STA. 87+50
18' RT
FINISHED HINGE POINT
2' BEHIND BACK OF POST
LEGEND
SALVAGED TOPSOIL
EROSION MAT CLASS I TYPE B
SEEDING MIXTURE NO. 20
FERTILIZER TYPE B
SILT FENCE
EROSION BALES
STA. 87+00 - 87+53.1 RT - MGS GUARDRAIL TERMINAL EAT
STA. 87+53.1 - 93+53.2 RT - 600 LF - MGS GUARDRAIL 3


N
92+00
93+00
94+00
FINISHED HINGE POINT
2' BEHIND BACK OF POST
EDGE OF TRAVEL LANE
FINISHED EDGE OF ASPHALT
FINISHED HINGE POINT
SLOPE INTERCEPT
POST 9
STA. 93+56.2
18' RT
POST 5
STA. 93+81.2
18' RT
POST 1
STA. 94+06.3
18' RT
LEGEND
SALVAGED TOPSOIL
EROSION MAT CLASS I TYPE B
SEEDING MIXTURE NO. 20
FERTILIZER TYPE B
SILT FENCE
EROSION BALES
STA. 93+53.2 - 94+06.3 RT - MGS GUARDRAIL TERMINAL EAT
STA. 87+53.1 - 93+53.2 RT - 600 LF - MGS GUARDRAIL 3

2

2

PCC: 226+69.83 "BR"

15:1

10:1

226+00

226+00"BR"

227+00

227+00"BR"

228+00

228+00"BR"

N

LEGEND

SALVAGED TOPSOIL
EROSION MAT CLASS I TYPE B
SEEDING MIXTURE NO. 20
FERTILIZER TYPE B

SILT FENCE

EROSION BALES

STA. 226+27.1 "BR" - 226+48.1 "BR" 20 RT - STEEL THRIE BEAM STRUCTURE APPROACH
STA. 226+48.1 "BR" - 226+60.8 "BR" 20 RT - 12.5 LF - STEEL PLATE BEAM GUARD CLASS A
STA. 226+60.8 "BR" 20 RT - 227+02.0 "BR" 44.8 RT (PLACED AT 42' RADIUS) - 50.0 LF - STEEL PLATE BEAM GUARD CLASS A
STA. 227+02.0 "BR" - 227+04.3 "BR" RT - ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2

PT: 220+70

220+00

220+00"BR"

221+00

221+00"BR"

INL INL

219+39

REMOVE CURB HEAD

219+71.5

FINISHED HINGE POINT
2' BEHIND BACK OF POST

SLOPE INTERCEPT

POST 1
STA. 219+92.19 "BR"
23' RT

POST 5
STA. 220+17.19 "BR"
22' RT

POST 9
STA. 220+42.19 "BR"
21' RT

LEGEND

SALVAGED TOPSOIL
EROSION MAT CLASS I TYPE B
SEEDING MIXTURE NO. 20
FERTILIZER TYPE B

SILT FENCE

EROSION BALES

STA. 219+92.2 "BR" - 220+45.3 "BR" RT - MGS GUARDRAIL TERMINAL EAT
STA. 220+45.3 "BR" - 224+82.8 "BR" RT - 437.5 LF - MGS GUARDRAIL 3
STA. 224+82.8 "BR" - 225+22.2 "BR" RT - MGS THRIE BEAM TRANSITION

N

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: BEAMGUARD	SHEET 59	E

2

2

15:1

10:1

N

307+00

308+00

309+00

10:1

15:1

LEGEND

SALVAGED TOPSOIL
EROSION MAT CLASS I TYPE B
SEEDING MIXTURE NO. 20
FERTILIZER TYPE B

SILT FENCE

EROSION BALES

STA. 307+83.9 - 308+37 RT - MGS GUARDRAIL TERMINAL EAT
STA. 308+37 - 312+99.5 RT - 462.5 LF - MGS GUARDRAIL 3K

SLOPE INTERCEPT

FINISHED HINGE POINT

FINISHED EDGE OF ASPHALT

EDGE OF TRAVEL LANE

R/W

POST 1
STA. 307+83.9
20' RT

POST 5
STA. 308+08.9
19.5' RT

POST 9
STA. 308+33.9
19' RT

FINISHED HINGE POINT
2' BEHIND BACK OF POST

10:1

312+00

313+00

314+00

10:1

15:1

FINISHED HINGE POINT
2' BEHIND BACK OF POST

LEGEND

SALVAGED TOPSOIL
EROSION MAT CLASS I TYPE B
SEEDING MIXTURE NO. 20
FERTILIZER TYPE B

SILT FENCE

EROSION BALES

STA. 312+99.5 - 313+52.6 RT - MGS GUARDRAIL TERMINAL EAT
STA. 308+37 - 312+99.5 RT - 462.5 LF - MGS GUARDRAIL 3K

POST 9
STA. 313+02.6
19' RT

POST 5
STA. 313+27.6
19.5' RT

POST 1
STA. 313+52.6
20' RT

R/W

SLOPE INTERCEPT

EDGE OF TRAVEL LANE

FINISHED EDGE OF ASPHALT

FINISHED HINGE POINT

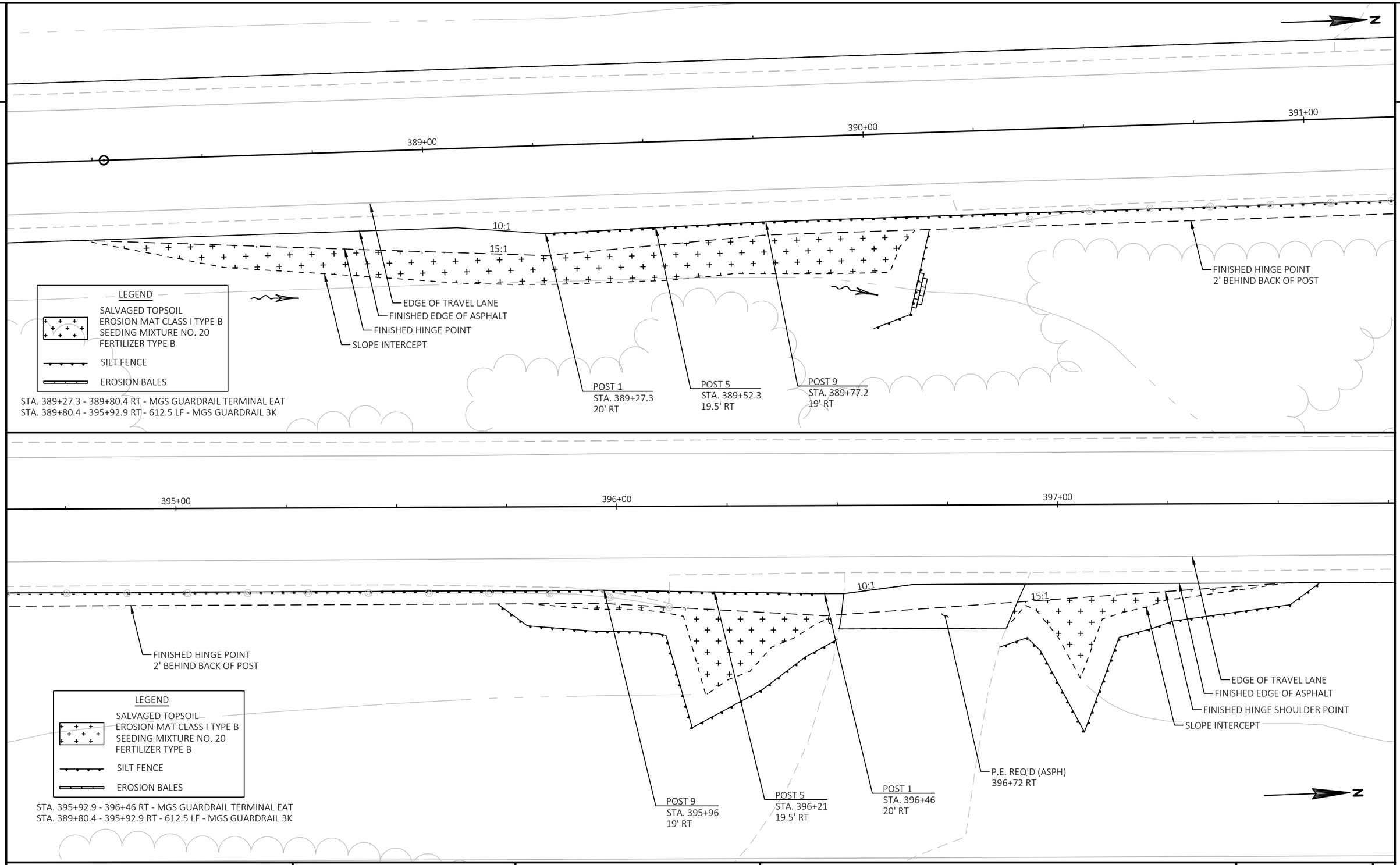
N

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: BEAMGUARD	SHEET 60	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\BEAM GUARD LAYOUT.DWG
LAYOUT NAME - LOCATION 3

PLOT DATE : 9/25/2019 2:08 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT

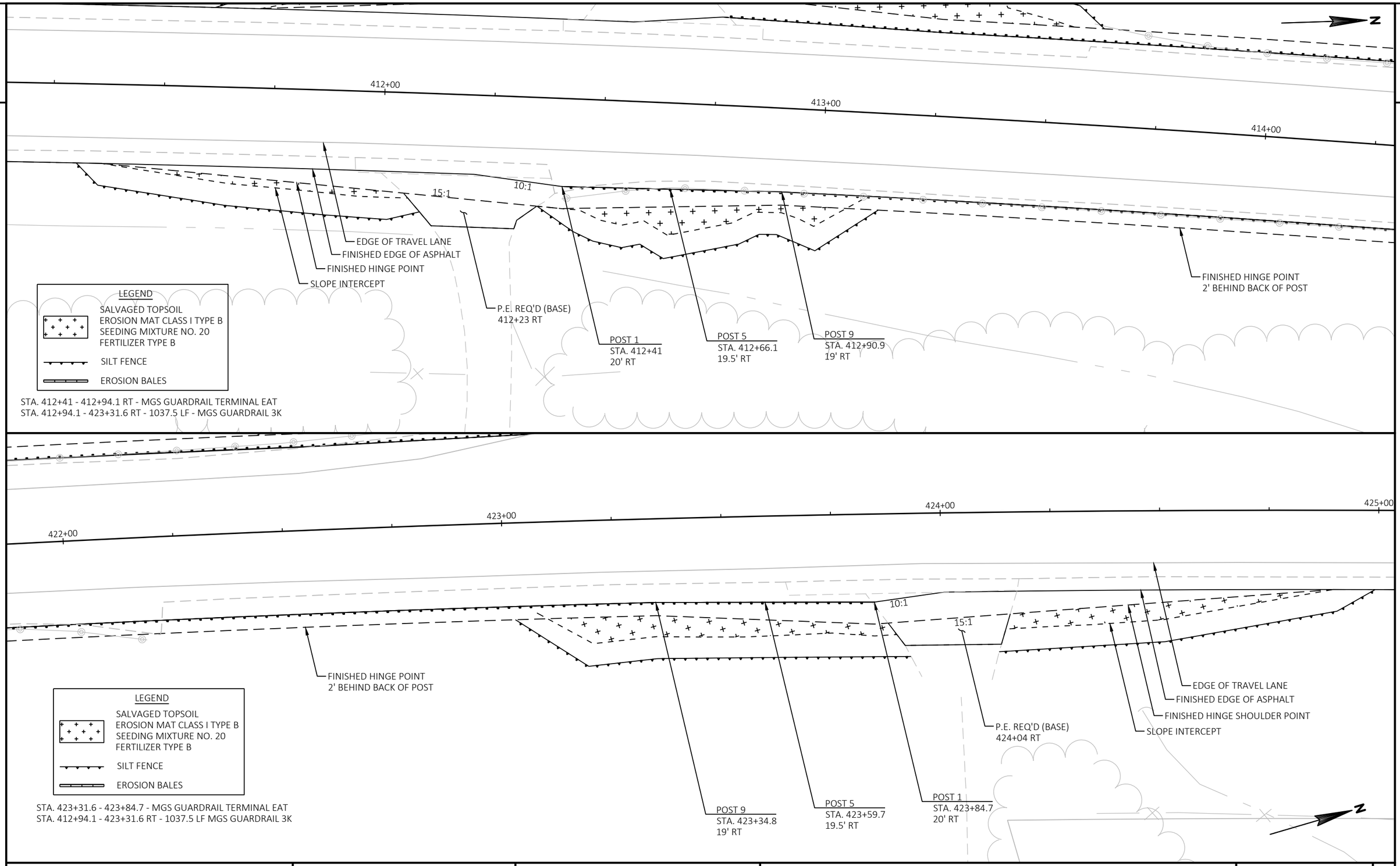
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: BEAMGUARD	SHEET 61	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\BEAM GUARD LAYOUT.DWG
LAYOUT NAME - LOCATION 4
PLOT DATE : 9/25/2019 2:08 PM
PLOT BY : NELSON, JOSHUA B
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 44

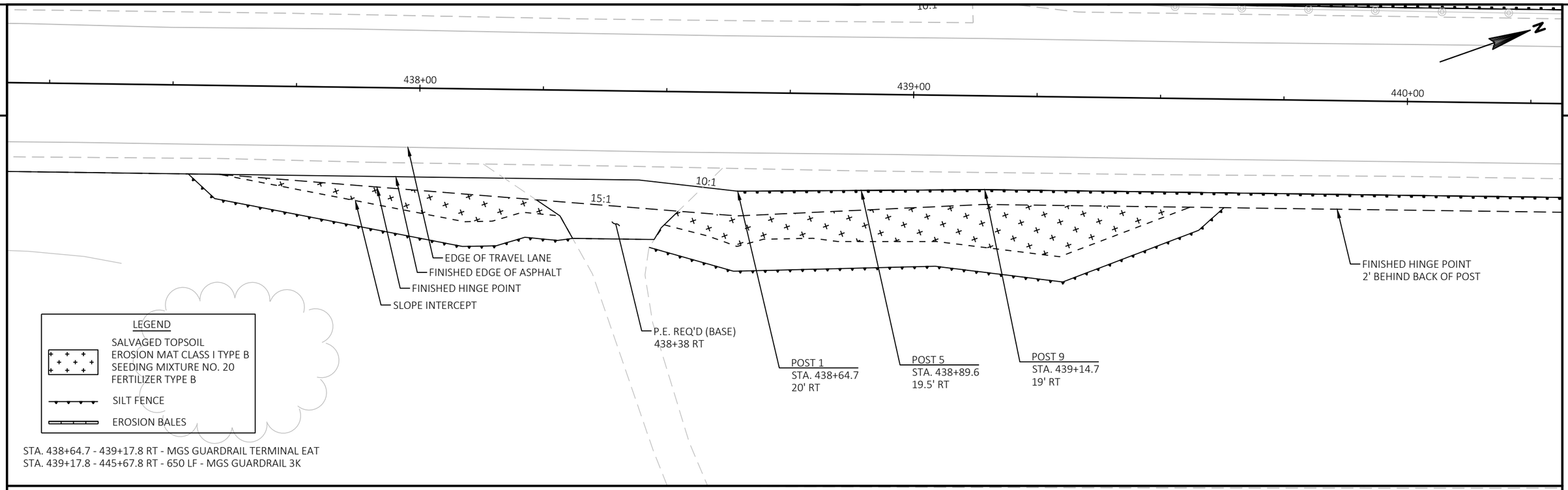
2



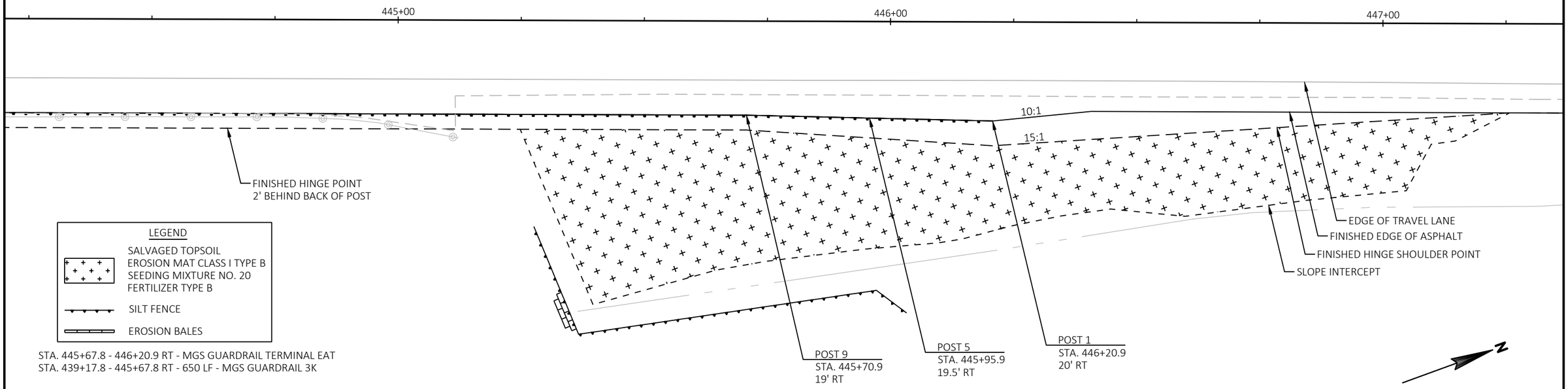
PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	GUARDRAIL DETAILS: BEAMGUARD	SHEET 62	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\BEAM GUARD LAYOUT.DWG
LAYOUT NAME - LOCATION 5
PLOT DATE : 9/25/2019 2:08 PM
PLOT BY : NELSON, JOSHUA B
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 44

2



STA. 438+64.7 - 439+17.8 RT - MGS GUARDRAIL TERMINAL EAT
STA. 439+17.8 - 445+67.8 RT - 650 LF - MGS GUARDRAIL 3K



STA. 445+67.8 - 446+20.9 RT - MGS GUARDRAIL TERMINAL EAT
STA. 439+17.8 - 445+67.8 RT - 650 LF - MGS GUARDRAIL 3K

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: BEAMGUARD	SHEET 63	E

2

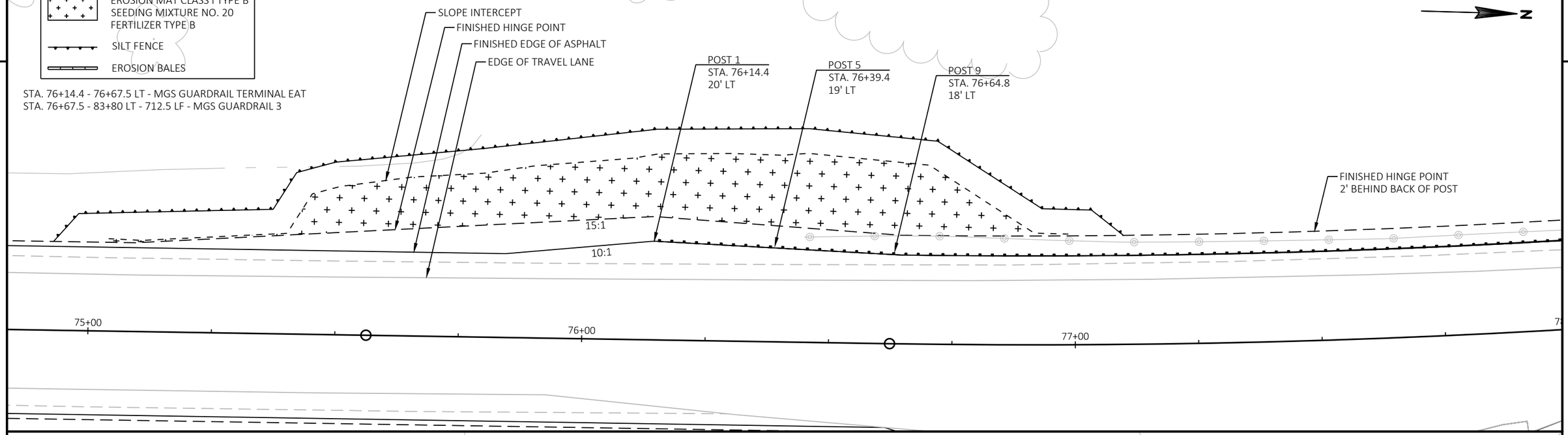
LEGEND

SALVAGED TOPSOIL
EROSION MAT CLASS I TYPE B
SEEDING MIXTURE NO. 20
FERTILIZER TYPE B

SILT FENCE

EROSION BALES

STA. 76+14.4 - 76+67.5 LT - MGS GUARDRAIL TERMINAL EAT
STA. 76+67.5 - 83+80 LT - 712.5 LF - MGS GUARDRAIL 3



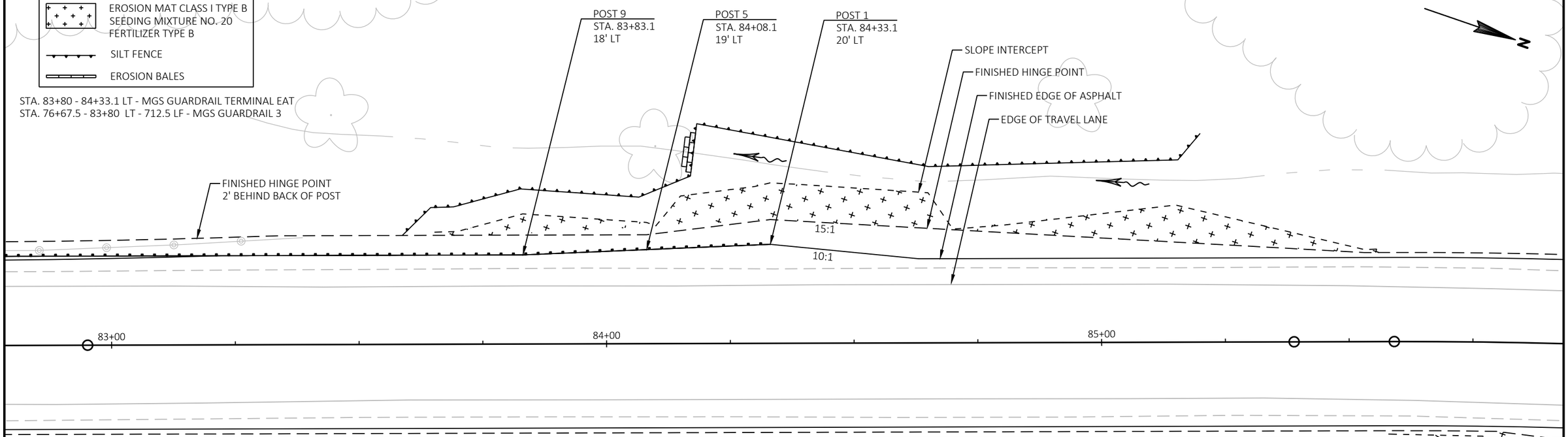
LEGEND

SALVAGED TOPSOIL
EROSION MAT CLASS I TYPE B
SEEDING MIXTURE NO. 20
FERTILIZER TYPE B

SILT FENCE

EROSION BALES

STA. 83+80 - 84+33.1 LT - MGS GUARDRAIL TERMINAL EAT
STA. 76+67.5 - 83+80 LT - 712.5 LF - MGS GUARDRAIL 3



2

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: BEAMGUARD	SHEET 64	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\BEAM GUARD LAYOUT.DWG
LAYOUT NAME - LOCATION 7

PLOT DATE : 9/25/2019 2:09 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 44

2

W5-52L
12"X36"

INL

NL

PC: 225+12.31 "BR"

PCC: 226+69.88 "BR"

224+00
224+00"BR"

225+00
225+00"BR"

226+00
226+00"BR"

227+00"

POST 9
STA. 227+28.7 "BR"
20' LT

POST 5
STA. 227+53.7 "BR"
21' LT

POST 1
STA. 227+78.7 "BR"
22' LT

SLOPE INTERCEPT

FINISHED HINGE POINT

FINISHED EDGE OF ASPHALT

FINISHED HINGE POINT
2' BEHIND BACK OF POST

LEGEND

SALVAGED TOPSOIL
EROSION MAT CLASS I TYPE B
SEEDING MIXTURE NO. 20
FERTILIZER TYPE B

SILT FENCE

EROSION BALES

STA. 226+48.7 "BR" - 226+88.1 "BR" LT - THRIE BEAM TRANSITION
STA. 226+88.1 "BR" - 227+25.6 "BR" LT - 37.5 LF - MGS GUARDRAIL 3
STA. 227+25.6 "BR" - 227+78.7 "BR" RT - MGS GUARDRAIL TERMINAL EAT

15:1

10:1

PCC: 226+69.88 "BR"

227+00
227+00"BR"

228+00
228+00"BR"

229+00
229+00"BR"

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: BEAMGUARD	SHEET 65	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\BEAM GUARD LAYOUT.DWG
LAYOUT NAME - LOCATION 8

PLOT DATE : 9/25/2019 2:09 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

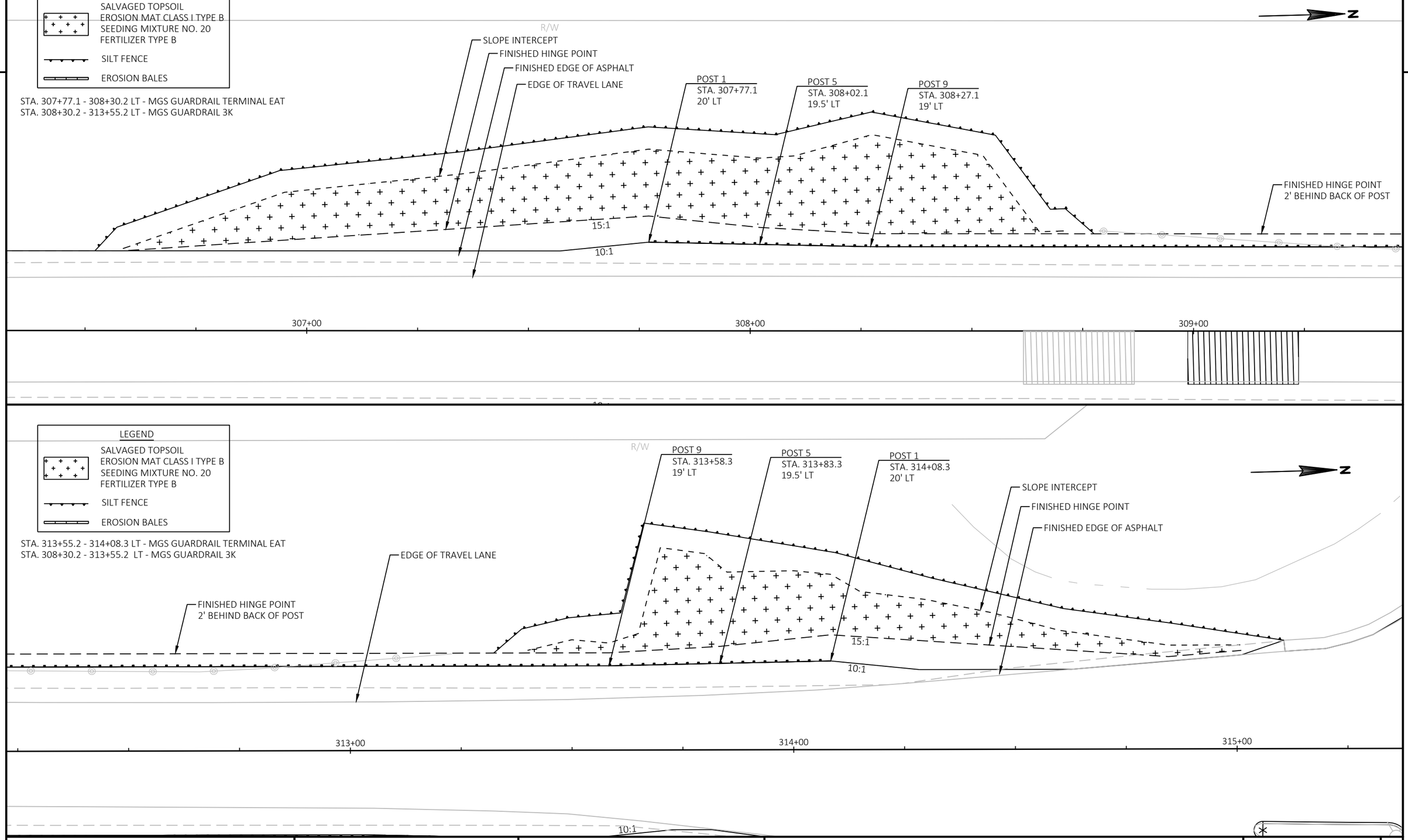
LEGEND

SALVAGED TOPSOIL
EROSION MAT CLASS I TYPE B
SEEDING MIXTURE NO. 20
FERTILIZER TYPE B

SILT FENCE

EROSION BALES

STA. 307+77.1 - 308+30.2 LT - MGS GUARDRAIL TERMINAL EAT
STA. 308+30.2 - 313+55.2 LT - MGS GUARDRAIL 3K



2

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: BEAMGUARD	SHEET 66	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\BEAM GUARD LAYOUT.DWG
LAYOUT NAME - LOCATION 9

PLOT DATE : 9/25/2019 2:09 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

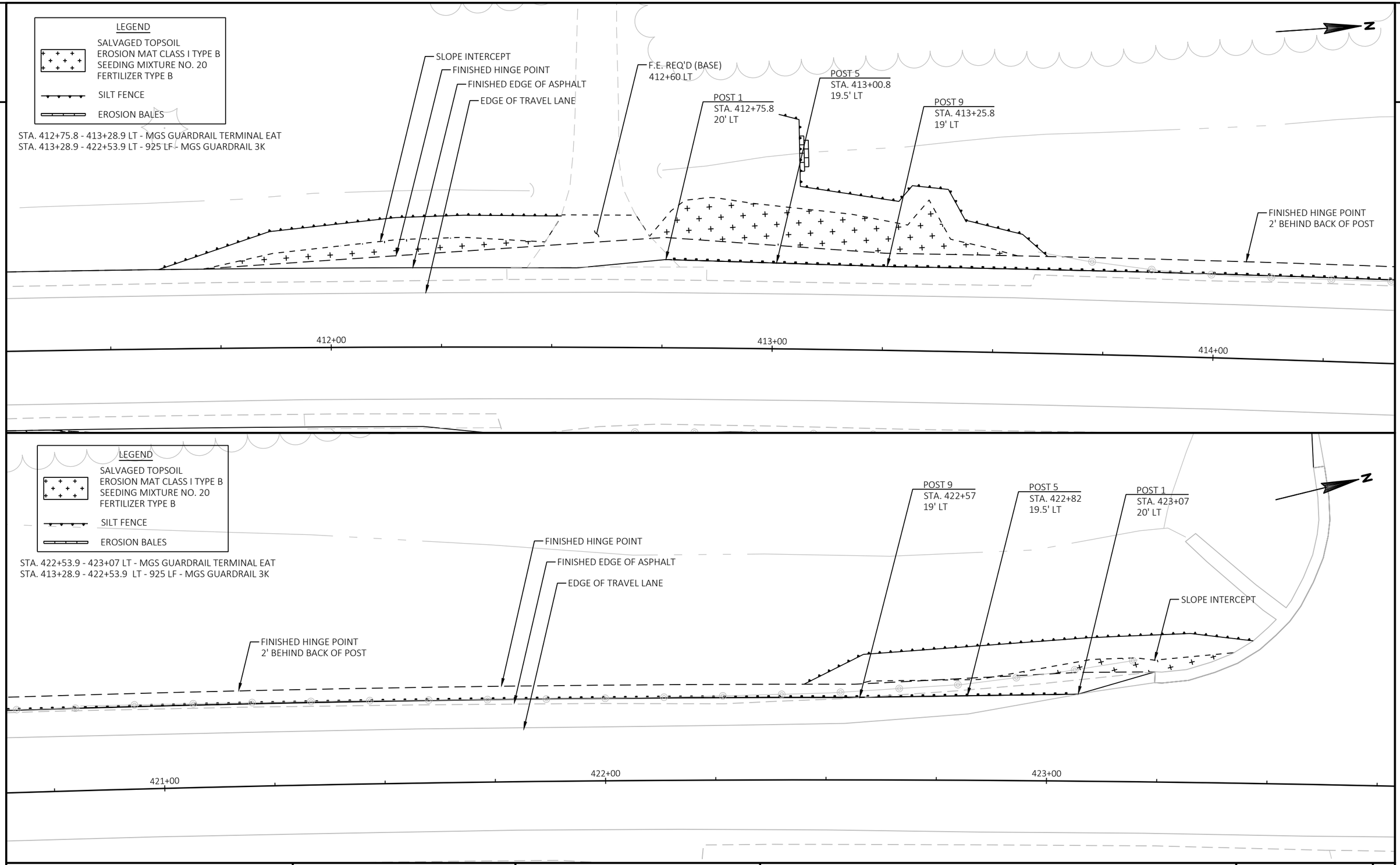
LEGEND

SALVAGED TOPSOIL
EROSION MAT CLASS I TYPE B
SEEDING MIXTURE NO. 20
FERTILIZER TYPE B

SILT FENCE

EROSION BALES

STA. 412+75.8 - 413+28.9 LT - MGS GUARDRAIL TERMINAL EAT
STA. 413+28.9 - 422+53.9 LT - 925 LF - MGS GUARDRAIL 3K



2

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: BEAMGUARD	SHEET 67	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\BEAM GUARD LAYOUT.DWG
LAYOUT NAME - LOCATION 10
PLOT DATE : 9/25/2019 2:09 PM
PLOT BY : NELSON, JOSHUA B
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 44

2

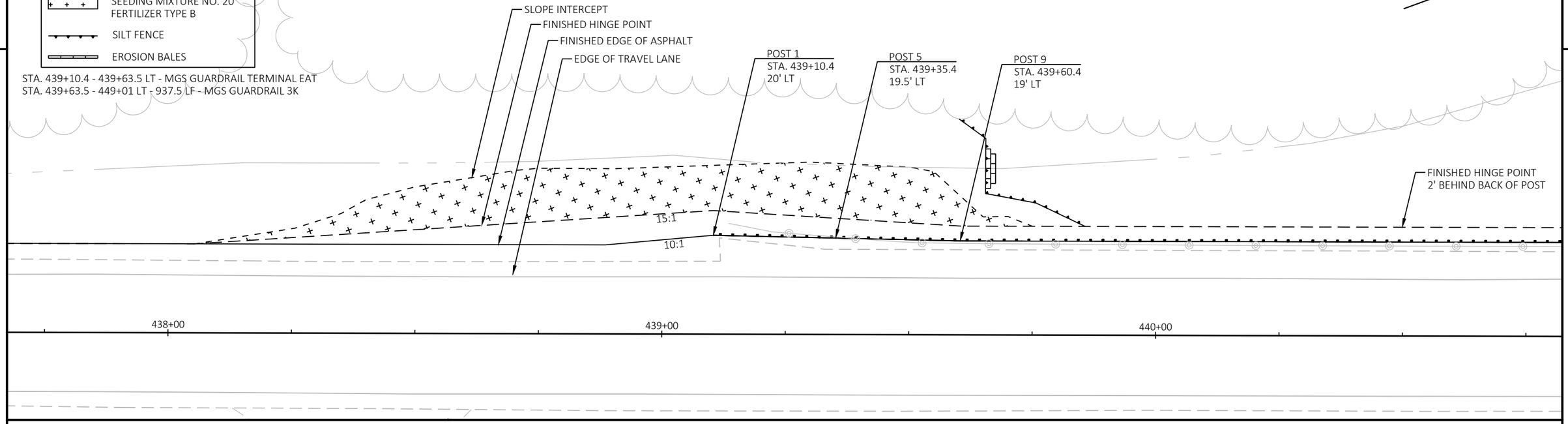
LEGEND

SALVAGED TOPSOIL
EROSION MAT CLASS I TYPE B
SEEDING MIXTURE NO. 20
FERTILIZER TYPE B

SILT FENCE

EROSION BALES

STA. 439+10.4 - 439+63.5 LT - MGS GUARDRAIL TERMINAL EAT
STA. 439+63.5 - 449+01 LT - 937.5 LF - MGS GUARDRAIL 3K



2

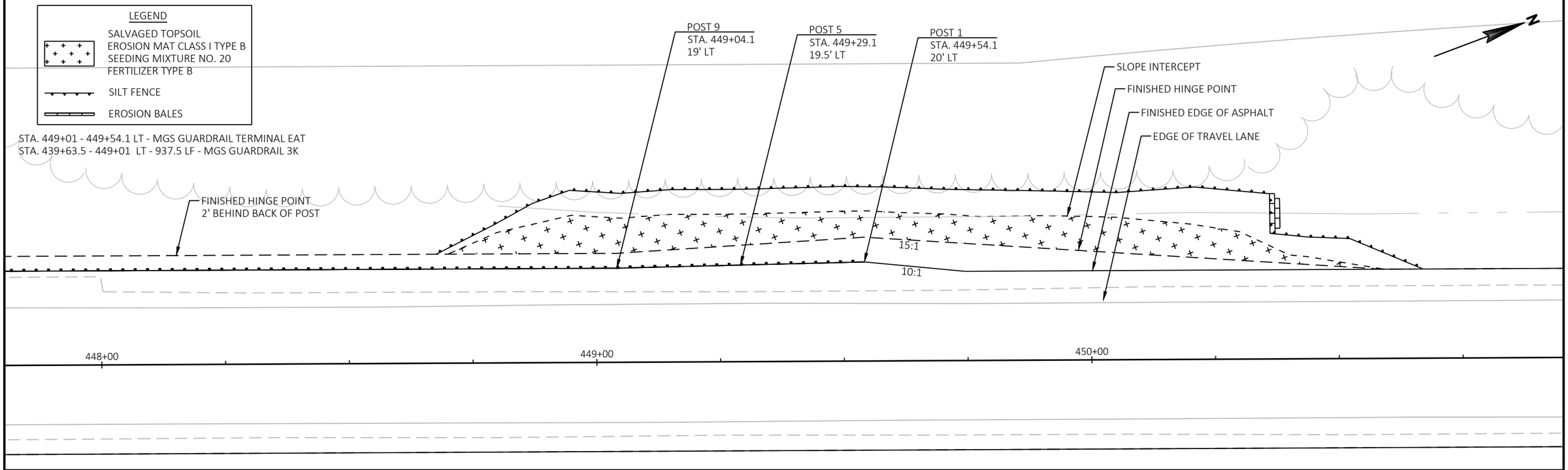
LEGEND

SALVAGED TOPSOIL
EROSION MAT CLASS I TYPE B
SEEDING MIXTURE NO. 20
FERTILIZER TYPE B

SILT FENCE

EROSION BALES

STA. 449+01 - 449+54.1 LT - MGS GUARDRAIL TERMINAL EAT
STA. 439+63.5 - 449+01 LT - 937.5 LF - MGS GUARDRAIL 3K



PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: BEAMGUARD	SHEET 68	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\BEAM GUARD LAYOUT.DWG
LAYOUT NAME - LOCATION 11
PLOT DATE : 9/25/2019 2:10 PM
PLOT BY : NELSON, JOSHUA B
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 44

2

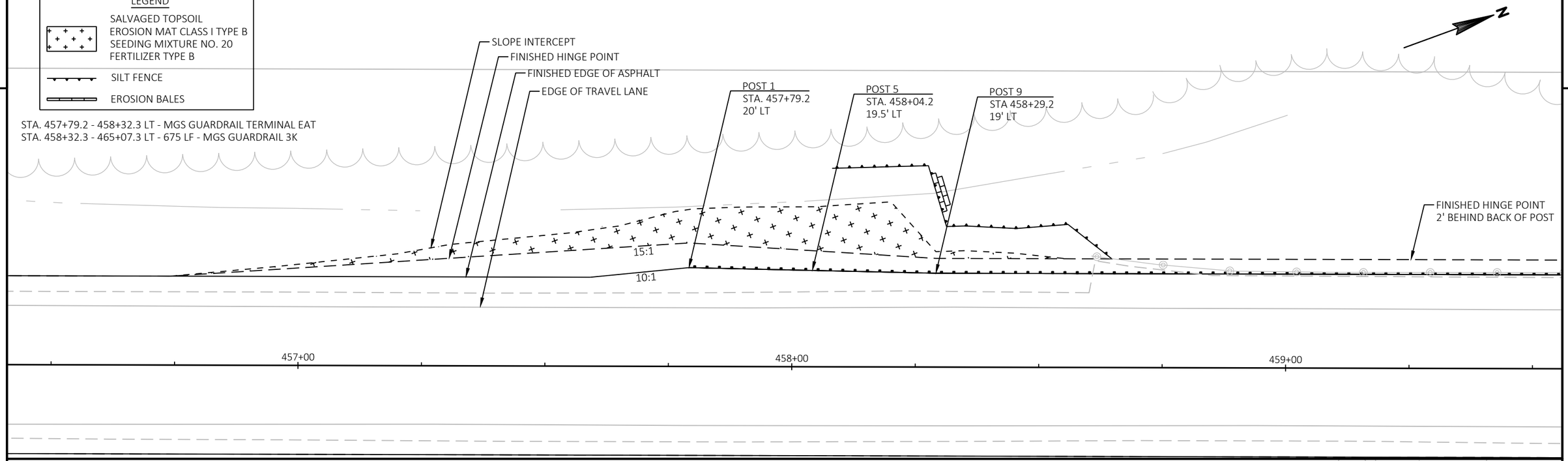
LEGEND

SALVAGED TOPSOIL
EROSION MAT CLASS I TYPE B
SEEDING MIXTURE NO. 20
FERTILIZER TYPE B

SILT FENCE

EROSION BALES

STA. 457+79.2 - 458+32.3 LT - MGS GUARDRAIL TERMINAL EAT
STA. 458+32.3 - 465+07.3 LT - 675 LF - MGS GUARDRAIL 3K



2

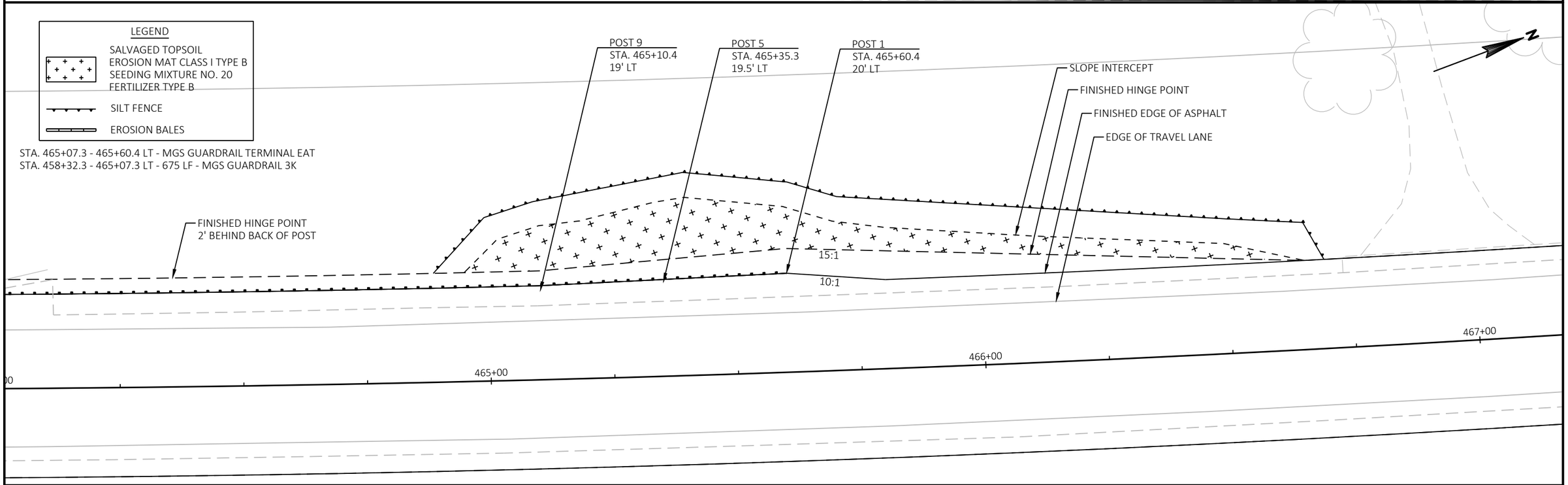
LEGEND

SALVAGED TOPSOIL
EROSION MAT CLASS I TYPE B
SEEDING MIXTURE NO. 20
FERTILIZER TYPE B

SILT FENCE

EROSION BALES

STA. 465+07.3 - 465+60.4 LT - MGS GUARDRAIL TERMINAL EAT
STA. 458+32.3 - 465+07.3 LT - 675 LF - MGS GUARDRAIL 3K



PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CONSTRUCTION DETAILS: BEAMGUARD	SHEET 69	E

2

2

STH 16 RAMP

BEGIN PROJECT
STATION 9+12.16
Y: 375,663.57
X: 576,616.62

REMOVING PAVEMENT BUTT JOINT REQ'D
SEE CONCRETE SECTION BUTT JOINT CONSTRUCTION DETAILS

R/W

6+00 7+00 8+00 9+00 10+00 11+00

12' 12' 12'

W8

W4

STH 22

DY

W4

MATCH LINE 11+80

R/W

STH 16 RAMP

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

2

2

N

R/W

MATCH LINE 11+80

W4

12+00 13+00 14+00 15+00 16+00 17+00

DY

STH 22

12'

12'

W4

MATCH LINE 17+60

R/W

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

2

2

REMOVING ASPHALTIC SURFACE BUTT JOINTS REQ'D
SEE CONSTRUCTION DEATILS

OLD HWY 16

ALLIANT ENERGRY
(OVERHEAD
ELECTRIC)

CHARTER COMMUNICATIONS
(TELEVISON)

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

ALLIANT ENERGY
(GAS)

R/W

REMOVING PAVEMENT BUTT JOINT REQ'D
SEE CONCRETE SECTION BUTT JOINT CONSTRUCTION DETAILS

SL

MATCH LINE 17+60

W4

18+00

19+00

20+00

WS-3

21+00

CAUTION

12'

12'

22+00

23+00

W4

DY

STH 22

W-3

MATCH LINE 23+40

REMOVING ASPHALTIC SURFACE BUTT JOINTS REQ'D
SEE CONSTRUCTION DEATILS

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN DETAILS - WYOCENA	SHEET 72 E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 0205021

PLOT DATE : 10/10/2019 7:53 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

ALLIANT ENERGY (OVERHEAD ELECTRIC)

CANADIAN PACIFIC RAILROAD

ENVIRONMENTALLY SENSITIVE AREA

ALLIANT ENERGY (GAS)

CHARTER COMMUNICATIONS (TELEVISON)

FRONTIER COMMUNICATIONS (FIBER OPTIC)

R/W

INLET PROTECTION TYPE B

INLET PROTECTION TYPE D

W4

24+00 25+00 26+00 27+00 28+00 29+00

12'

12'

DY

DY**

STH 22

MATCH LINE 23+40

MATCH LINE 29+20

INLET PROTECTION TYPE B

INLET PROTECTION TYPE D

VILLAGE OF WYOCENA (STORM SEWER)

FRONTIER COMMUNICATIONS (FIBER OPTIC)

REMOVING ASPHALTIC SURFACE BUTT JOINTS REO'D SEE RURAL TO URBAN BUTT JOINT CONSTRUCTION DETAILS

B-11-0675 TO REMAIN

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN DETAILS - WYOCENA	SHEET 73	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 0205022

PLOT DATE : 10/10/2019 7:54 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

DODGE ST

FRANKLIN ST

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

ALLIANT ENERGY
(GAS)

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

INLET PROTECTION
TYPE C

VILLAGE OF WYOCENA
(SANITARY SEWER)

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

CHARTER COMMUNICATIONS
(TELEVISON)

INLET PROTECTION
TYPE C

MATCH LINE 29+20

MATCH LINE 35+00

SL

W4

CAUTION

30+00

31+00

32+00

33+00

34+00

DY**

STH 22

ALLIANT ENERGY
(OVERHEAD ELECTRIC)

INLET PROTECTION
TYPE C

CW6

VILLAGE OF WYOCENA
(STORM SEWER)

CR 04

CR 03

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

VILLAGE OF WYOCENA
(WATER)

CR 01

CR 02

DODGE ST

FRANKLIN ST

SEE CONSTRUCTION DETAILS:
CURB RAMPS - DODGE ST

SEE CONSTRUCTION DETAILS:
CURB RAMPS - FRANKLIN ST

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

2

ENVIRONMENTALLY SENSITIVE AREA

VILLAGE OF WYOCENA (SANITARY SEWER)

VILLAGE OF WYOCENA (WATER)

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

PLACE TEMPORARY STOP SIGN WITH FLAGS AT LANE RD.

STOP
R1-1
36"X36"

MOVING SIGNS TYPE II

SEE CONSTRUCTION DETAILS:
CURB RAMPS - LANE RD

CHARTER COMMUNICATIONS (TELEVISON)

FRONTIER COMMUNICATIONS (FIBER OPTIC)

INLET PROTECTION TYPE C

MONROE ST

INLET PROTECTION TYPE C

ALLIANT ENERGY (GAS)

INLET PROTECTION TYPE D

LANE RD

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE DETAIL FOR URBAN PAVED SIDEROAD
ENGINEER TO DETERMINE LIMITS

B-11-0121
TO REMAIN

CR 07 CR 08 CR 09 CR 10

SL DY CW6 R/W

MATCH LINE 35+00

36+00 37+00 38+00 39+00 40+00

DY** STH 22

CR 05 CR 06

FRONTIER COMMUNICATIONS (TELEPHONE)

INLET PROTECTION TYPE D

REMOVING ASPHALTIC SURFACE BUTT JOINTS (4-INCHES)

4" 4"

MATCH LINE 40+80

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

SEE CONSTRUCTION DETAILS:
CURB RAMPS - MONROE ST

ALLIANT ENERGRY (OVERHEAD ELECTRIC)

VILLAGE OF WYOCENA (STORM SEWER)

WYONA LAKE

ENVIRONMENTALLY SENSITIVE AREA

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

2

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN DETAILS - WYOCENA	SHEET 75	E

2

N

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

POLK ST

ALLIANT ENERGY
(OVERHEAD ELECTRIC)

ALLIANT ENERGY
(GAS)

INLET PROTECTION
TYPE D

CR 13

SL

W4

44+00

45+00

DY

W4

43+00

42+00

STH 22

MATCH LINE 40+80

41+00

DY**

CW6

CW6

SL

CR 12

R/W

CR 11

MATCH LINE 45+25

SL

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

VILLAGE OF WYOCENA
(WATER)

VILLAGE OF WYOCENA
(SANITARY SEWER)

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

LOVERS LN

SEE CONSTRUCTION DETAILS:
CURB RAMPS - LOVERS LN

WYONA LAKE

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN DETAILS - WYOCENA	SHEET 76	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 0205025
PLOT DATE : 10/10/2019 7:54 PM
PLOT BY : NELSON, JOSHUA B
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

VILLAGE OF WYOCENA
(WATER)

ALLIANT ENERGY
(GAS)

KENNEDY CT

ALLIANT ENERGY
(OVERHEAD ELECTRIC)

R/W

SL

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE URBAN TO RURAL BUTT JOINT CONSTRUCTION DETAILS

MATCH LINE 45+25

WS-3

46+00 47+00 48+00 49+00 50+00

12'

12'

W4

STH 22

DY*

W4

WS-3

SL

R/W

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

FRONTIER COMMUNICATIONS
(TELEPHONE)

ALLIANT ENERGY
(GAS)

VILLAGE OF WYOCENA
(WATER)

VILLAGE OF WYOCENA
(SANITARY SEWER)

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

POLK ST

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN DETAILS - WYOCENA	SHEET 77	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 0205026

PLOT DATE : 10/10/2019 7:54 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

ALLIANT ENERGY
(GAS)

VILLAGE OF PARDEEVILLE
(OVERHEAD ELECTRIC)

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE RURAL TO URBAN BUTT JOINT CONSTRUCTION DETAILS

VILLAGE OF PARDEEVILLE
(WATER)

VILLAGE OF PARDEEVILLE
(BURRIED ELECTRIC)

FRONTIER COMMUNICATIONS
(TELEPHONE)

R/W

W4

146+00 147+00 148+00 149+00 150+00 151+00

12'
12'

STH 22

DY*

W4

MATCH LINE 151+30

ALLIANT ENERGY
(GAS)

FRONTIER COMMUNICATIONS
(TELEPHONE)

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

FRONTIER COMMUNICATIONS
(TELEPHONE)

VILLAGE OF PARDEEVILLE
(SANITARY SEWER)

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN DETAILS - PARDEEVILLE	SHEET 78	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 0205027

PLOT DATE : 10/10/2019 7:54 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

MATCH LINE 151+30

FRONTIER COMMUNICATIONS
(TELEPHONE)

VILLAGE OF PARDEEVILLE
(OVERHEAD ELECTRIC)

VILLAGE OF PARDEEVILLE
(BURRIED ELECTRIC)

ALLIANT ENERGY
(GAS)

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

INDUSTRIAL RD

VILLAGE OF PARDEEVILLE
(WATER)

ALLIANT ENERGY
(GAS)

R/W

SL

W4

152+00

153+00

154+00

155+00

156+00

WS-3

W4

157+00

DY*

W4

<CAUTION>

STH 22

12'

12'

W4

MATCH LINE 157+10

ALLIANT ENERGY
(GAS)

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

VILLAGE OF PARDEEVILLE
(SANITARY SEWER)

VILLAGE OF PARDEEVILLE
(OVERHEAD ELECTRIC)

R/W

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

2

2

N

SUBSTATION

VILLAGE OF PARDEEVILLE
(OVERHEAD ELECTRIC)

VILLAGE OF PARDEEVILLE
(BURRIED ELECTRIC)

ALLIANT ENERGY
(GAS)

VILLAGE OF PARDEEVILLE
(WATER)

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

JUSTICE DR

SL

R/W

MATCH LINE 157+10

W4

158+00

159+00

160+00

161+00

162+00

12'

12'

DY

W4

STH 22

<CAUTION>

<CAUTION>

WS-3

MATCH LINE 162+90

ALLIANT ENERGY
(GAS)

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

VILLAGE OF PARDEEVILLE
(SANITARY SEWER)

VILLAGE OF PARDEEVILLE
(OVERHEAD ELECTRIC)

ENVIRONMENTALLY
SENSITIVE AREA

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN DETAILS - PARDEEVILLE	SHEET 80	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 0205029

PLOT DATE : 10/10/2019 7:55 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

MATCH LINE 162+90

MATCH LINE 168+70

VILLAGE OF PARDEEVILLE
(ELECTRIC)

ALLIANT ENERGY
(GAS)

VILLAGE OF PARDEEVILLE
(WATER)

INLET PROTECTION
TYPE C

R/W

WS-3

W4

12'

12'

163+00

164+00

165+00

166+00

167+00

168+00

<CAUTION>

DY

W4

STH 22

DY**

R/W

VILLAGE OF PARDEEVILLE
(ELECTRIC)

VILLAGE OF PARDEEVILLE
(WATER)

INLET PROTECTION
TYPE C

VILLAGE OF PARDEEVILLE
(SANITARY SEWER)

NOTE: ALL AREAS ON THIS SHEET ARE WITHIN AN ENVIRONMENTALLY SENSITIVE AREA.

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN DETAILS - PARDEEVILLE	SHEET 81	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 0205030

PLOT DATE : 10/10/2019 7:55 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

SEE CONSTRUCTION DETAILS:
CURB RAMPS - VINCE ST

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

VILLAGE OF PARDEEVILLE
(WATER)

ALLIANT ENERGY
(GAS)

VILLAGE OF PARDEEVILLE
(ELECTRIC)

INLET PROTECTION
TYPE D

VINCE ST

INLET PROTECTION
TYPE D

CR 14

CR 15

SL

CW6

R/W

MATCH LINE 168+70

169+00 170+00 171+00 172+00 173+00 174+00

STH 22

DY**

CAUTION

MATCH LINE 174+50

INLET PROTECTION
TYPE C

VILLAGE OF PARDEEVILLE
(ELECTRIC)

VILLAGE OF PARDEEVILLE
(STORM SEWER)

VILLAGE OF PARDEEVILLE
(SANITARY SEWER)

INLET PROTECTION
TYPE D

R/W

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

NOTE: ALL AREAS ON THIS SHEET ARE WITHIN AN ENVIRONMENTALLY SENSITIVE AREA.

2

2

MATCH LINE 174+50

MATCH LINE 180+30

N

175+00 176+00 177+00 178+00 179+00 180+00

STH 22

R/W

VILLAGE OF PARDEEVILLE (WATER)

ALLIANT ENERGY (GAS)

VILLAGE OF PARDEEVILLE (OVERHEAD ELECTRIC)

CAUTION

VILLAGE OF PARDEEVILLE (SANITARY SEWER)

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

INLET PROTECTION TYPE C

SEE CONSTRUCTION DETAILS:
CURB RAMPS - LAFOLLETTE ST

LAFOLLETTE ST

VILLAGE OF PARDEEVILLE (STORM SEWER)

INLET PROTECTION TYPE C

CR 18

CR 19

CR 16

CR 17

SL

CW6

DY**

CLEARING AND GRUBBING

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE URBAN ROAD & STH 33 BUTT JOINT CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

SEE CONSTRUCTION DETAILS:
CURB RAMPS - LAFOLLETTE ST

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

NOTE: ALL AREAS ON THIS SHEET ARE WITHIN AN ENVIRONMENTALLY SENSITIVE AREA.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN DETAILS - PARDEEVILLE	SHEET 83	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 0205032
PLOT DATE : 10/10/2019 7:55 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

MATCH LINE 180+30

MATCH LINE 185+90

VILLAGE OF PARDEEVILLE (WATER)

ALLIANT ENERGY (GAS)

VILLAGE OF PARDEEVILLE (STORM SEWER)

INLET PROTECTION TYPE C

R/W

181+00 182+00 183+00 184+00 185+00

DY**

STH 22

CAUTION

CAUTION

VILLAGE OF PARDEEVILLE (OVERHEAD ELECTRIC)

VILLAGE OF PARDEEVILLE (SANITARY SEWER)

INLET PROTECTION TYPE C

R/W

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

NOTE: ALL AREAS ON THIS SHEET ARE WITHIN AN ENVIRONMENTALLY SENSITIVE AREA.

2

N

SEE CONSTRUCTION DETAILS:
CURB RAMPS - CHESTNUT ST

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

INLET PROTECTION
TYPE C

CHESTNUT ST

CR 22

CR 23

CR 20

CR 21

ALLIANT ENERGY
(GAS)

VILLAGE OF PARDEEVILLE
(WATER)

INLET PROTECTION
TYPE C

INLET PROTECTION
TYPE C

VILLAGE OF PARDEEVILLE
(STORM SEWER)

VILLAGE OF PARDEEVILLE
(BURRIED ELECTRIC)

R/W

MATCH LINE 185+90

SL

DY

CW6

W4

186+00

187+00

188+00

189+00

190+00

191+00

12'

DY**

STH 22

MATCH LINE 191+80

VILLAGE OF PARDEEVILLE
(SANITARY SEWER)

INLET PROTECTION
TYPE C

INLET PROTECTION
TYPE C

VILLAGE OF PARDEEVILLE
(STORM SEWER)

VILLAGE OF PARDEEVILLE
(BURRIED ELECTRIC)

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

SEE CONSTRUCTION DETAILS:
CURB RAMPS - CHESTNUT ST

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

NOTE: ALL AREAS ON THIS SHEET ARE WITHIN AN ENVIRONMENTALLY SENSITIVE AREA.

2

2

SEE CONSTRUCTION DETAILS:
CURB RAMPS - ALLEY ST

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

INLET PROTECTION TYPE C

INLET PROTECTION TYPE C

VILLAGE OF PARDEEVILLE (BURRIED ELECTRIC)

VILLAGE OF PARDEEVILLE (WATER)

VILLAGE OF PARDEEVILLE (STORM SEWER)

ALLIANT ENERGY (GAS)

ALLIANT ENERGY (GAS)

INLET PROTECTION TYPE C

VILLAGE OF PARDEEVILLE (SANITARY SEWER)

CR 24 CR 25 CR 26 CR 27 CR 28 CR 29

SL CW6 W4 DY** 12' R/W

192+00 193+00 194+00 195+00 196+00 197+00

STH 22

CAUTION

MATCH LINE 191+80

MATCH LINE 197+70

VILLAGE OF PARDEEVILLE (BURRIED ELECTRIC)

INLET PROTECTION TYPE C

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

LAKE ST / STH 44

SEE CONSTRUCTION DETAILS:
CURB RAMPS - LAKE ST

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

NOTE: ALL AREAS ON THIS SHEET ARE WITHIN AN ENVIRONMENTALLY SENSITIVE AREA.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN DETAILS - PARDEEVILLE	SHEET 86	E

2

2

SPRING LAKE

N

MATCH LINE 197+70

INLET PROTECTION TYPE C

ALLIANT ENERGY (GAS)

FRONTIER COMMUNICATIONS (FIBER OPTIC)

CHARTER COMMUNICATIONS (TELEVISON)

INLET PROTECTION TYPE D

VILLAGE OF PARDEEVILLE (WATER)

ALLIANT ENERGY (GAS)

MATCH LINE 203+50

198+00

199+00

200+00

201+00

202+00

203+00

12'

12'

W4

DY**

W4

CAUTION

INLET PROTECTION TYPE C

VILLAGE OF PARDEEVILLE (STORM SEWER)

VILLAGE OF PARDEEVILLE (OVERHEAD ELECTRIC)

VILLAGE OF PARDEEVILLE (STORM SEWER)

INLET PROTECTION TYPE D

VILLAGE OF PARDEEVILLE (SANITARY SEWER)

R/W

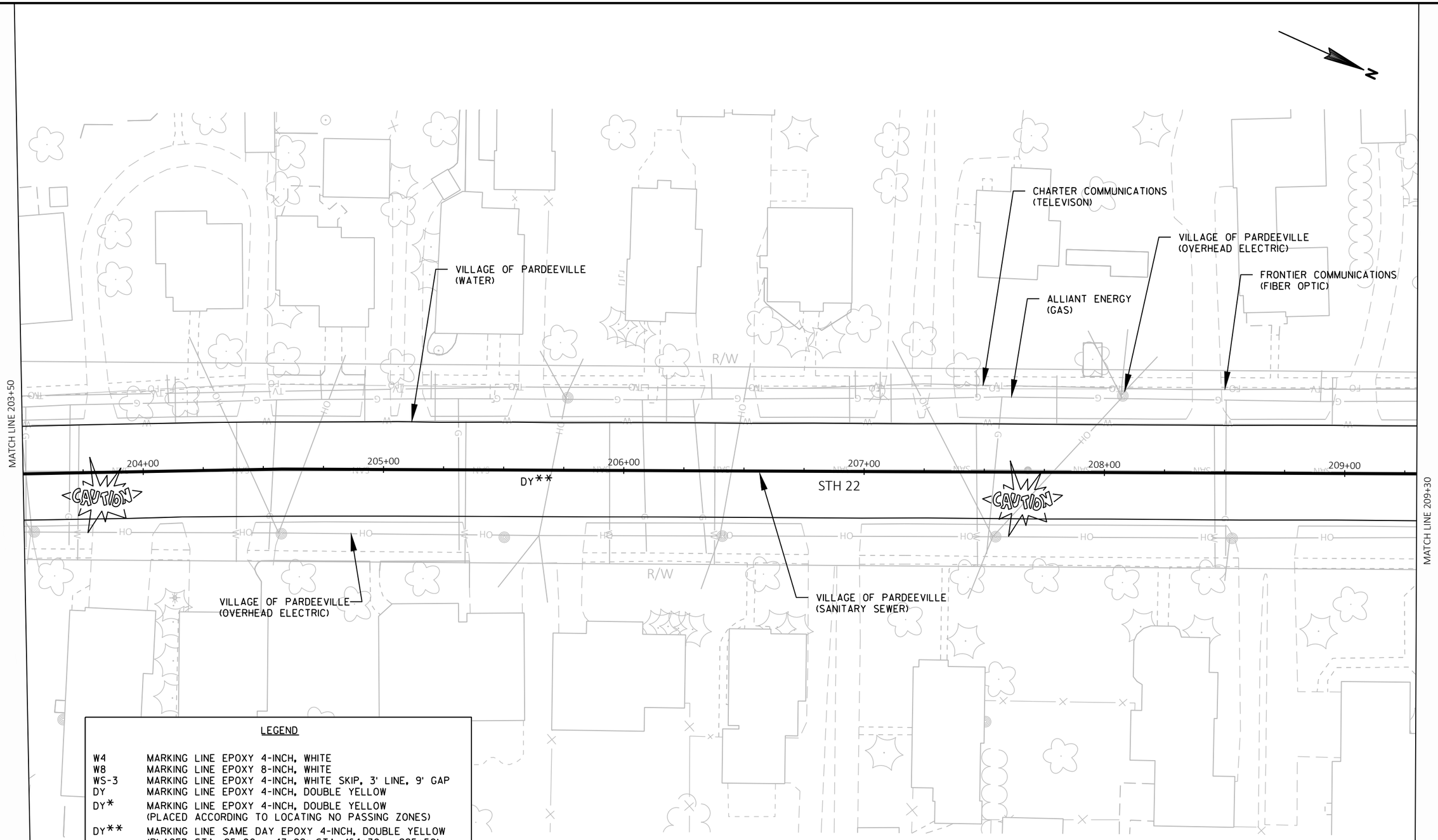
PARK LAKE

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

NOTE: ALL AREAS ON THIS SHEET ARE WITHIN AN ENVIRONMENTALLY SENSITIVE AREA.

2



LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

NOTE: ALL AREAS ON THIS SHEET ARE WITHIN AN ENVIRONMENTALLY SENSITIVE AREA.

2

2

MATCH LINE 209+30

SEE CONSTRUCTION DETAILS:
CURB RAMPS - MORTON ST

CHARTER COMMUNICATIONS
(TELEVISON)

MORTON ST

CR 31

SL

CW6

CR 32

ALLIANT ENERGY
(GAS)

R/W

VILLAGE OF PARDEEVILLE
(WATER)

CR 35

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

CW6

210+00

211+00

212+00

213+00

214+00

215+00

DY**

STH 22

CW6

DY**

DY**

CAUTION

CAUTION

VILLAGE OF PARDEEVILLE
(SANITARY SEWER)

MATCH LINE 215+10

R/W

CR 33

CR 34

RIVER ST

SL

VILLAGE OF PARDEEVILLE
(OVERHEAD ELECTRIC)

SEE CONSTRUCTION DETAILS:
CURB RAMPS - RIVER ST

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

NOTE: ALL AREAS ON THIS SHEET ARE WITHIN AN ENVIRONMENTALLY SENSITIVE AREA.

2

2

SEE CONSTRUCTION DETAILS:
CURB RAMPS - TRAIL CROSSING

VILLAGE OF PARDEEVILLE
(WATER)

VILLAGE OF PARDEEVILLE
(SANITARY SEWER)

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

ALLIANT ENERGY
(GAS)

MATCH LINE 215+10

216+00

217+00

218+00

219+00

219+00"BR"

220+00

220+00"BR"

MATCH LINE 220+90

DY**

STH 22

CR 36

CR 37

R/W

W4

12'

CW6

VILLAGE OF PARDEEVILLE
(OVERHEAD ELECTRIC)

VILLAGE OF PARDEEVILLE
(STORM SEWER)

INLET PROTECTION
TYPE D

FOX RIVER

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

NOTE: ALL AREAS ON THIS SHEET ARE WITHIN AN ENVIRONMENTALLY SENSITIVE AREA.

2

2

N

MATCH LINE 220+90

MATCH LINE 226+70

FRONTIER COMMUNICATIONS (FIBER OPTIC)

VILLAGE OF PARDEEVILLE (OVERHEAD ELECTRIC)

ALLIANT ENERGY (GAS)

VILLAGE OF PARDEEVILLE (WATER)

VILLAGE OF PARDEEVILLE (SANITARY SEWER)

RECONSTRUCTION BRIDGE APPROACH SECTION

HASKIN DR

9+00

9+17.35

9+30.24 35.07' RT

INLET PROTECTION TYPE C

FOX RIVER

R42

9+30.24 "BR" 35.07' LT

INLET PROTECTION TYPE C

R20

224+64.5 "BR" 35.48' LT

R/W

SL

R17

225+34.9 "BR" 37.99 LT

W5-52L 12"X36"

226+62.42 "BR"

R20

WS-3

221+00

221+00"BR"

222+00

222+00"BR"

223+00

223+00"BR"

224+00

224+00"BR"

225+00

225+00"BR"

226+00

226+00"BR"

12'

W4

DY**

STH 22

CAUTION

224+93.59 "BR"

225+08.79 "BR"

CONCRETE SURFACE DRAINS

RIP RAP MEDIUM

FOX RIVER

R/W

FOX RIVER

MOVING SIGNS TYPE II

VILLAGE OF PARDEEVILLE (SANITARY SEWER)

ALLIANT ENERGY (GAS)

ENVIRONMENTALLY SENSITIVE AREA

RECONSTRUCTION BRIDGE APPROACH SECTION

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE
(A)	REMOVING OLD STRUCTURE (225+86)
(B)	CONSTRUCT B-11-0171 (SEE STRUCTURE PLANS)
(C)	STRUCTURAL APPROACH SLAB
(D)	CONCRETE PAVEMENT APPROACH SLAB
(E)	CONCRETE PAVEMENT 12-INCH

PLACE 6" BASE AGGREGATE DENSE 1-1/4" UNDER STRUCTURAL APPROACH SLAB, CONCRETE PAVEMENT APPROACH SLAB, AND CONCRETE PAVEMENT 12-INCH.

CURB AND GUTTER STATION OFFSET ELEVATION

1	223+60"BR", 18' LT, 801.27'
2	224+00"BR", 18' LT, 801.14'
3	224+65.32"BR", 18' LT, 800.74'
4	9+64.74, 18' RT, 800.45'
5	9+39.93, 16' RT, 800.57'
6	9+25.6, 15.3' RT, 800.64'
7	9+27.11, 18.6' LT, 800.58'
8	9+45, 17.2' LT, 800.55'
9	9+62, 15.3' LT, 800.50'
10	225+34.83"BR", 18' LT, 800.72'

2

FOX RIVER

MOVING SIGNS TYPE II

RECONSTRUCTION BRIDGE APPROACH SECTION

TRANSITION AREA FOR SUPER ELEVATION
SEE SUPER ELEVATION TABLES

PAVE 0" - 4" HMA 4LT 58-28S WEDGE LAYER FROM
226+77.11"BR" - 227+80"BR" BETWEEN 4' LT AND 24' RT

VILLAGE OF PARDEEVILLE
(OVERHEAD ELECTRIC)

ALLIANT ENERGY
(GAS)

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

R/W

MATCH LINE 226+70

STH 22

226+77.11 "BR"

227+00

227+00"BR"

228+00

228+00"BR"

229+00

229+00"BR"

230+00

230+00"BR"

231+00

231+00"BR"

232+00

232+00"BR"

MATCH LINE 232+50

W4

W8

DY

WO

A2

SL

12'

20'

32'

50'

229+11 "BR"

227+80 "BR"

CAUTION

CAUTION

R/W

ALLIANT ENERGY
(GAS)

VILLAGE OF PARDEEVILLE
(BURRIED ELECTRIC)

FRONTIER COMMUNICATIONS
(TELEPHONE)

VILLAGE OF PARDEEVILLE
(SANITARY SEWER)

PONDVIEW DR

111+00

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

REMOVING ASPHALTIC SURFACE BUTT JOINT
REQ'D
SEE CONSTRUCTION DETAILS
ENGINEER TO DETERMINE LIMITS

LINTER RD

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN DETAILS - PARDEEVILLE	SHEET 92	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 0205041

PLOT DATE : 10/10/2019 7:56 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

ALLIANT ENERGY
(OVERHEAD ELECTRIC)

FRONTIER COMMUNICATIONS
(TELEPHONE)

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

FRONTIER COMMUNICATIONS
(TELEPHONE)

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

ALLIANT ENERGY
(GAS)

R/W

MATCH LINE 232+50

233+00
233+00"BR"

234+00
234+00"BR"

235+00
235+00"BR"

CAUTION

236+00
236+00"BR"

237+00
237+00"BR"

238+00

W4

DY*

W4

STH 22

12'

12'

SL

FRONTIER COMMUNICATIONS
(TELEPHONE)

ALLIANT ENERGY
(OVERHEAD ELECTRIC)

R/W

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

PLACE TEMPORARY STOP SIGNS WITH FLAGS NEAR LOCATIONS OF EXISTING FLASHING BEACONS BEFORE THEIR REMOVAL

R1-1
36"X36"

MOVING SIGNS TYPE II

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE URBAN TO RURAL BUTT JOINT CONSTRUCTION DETAILS

ENVIRONMENTALLY SENSITIVE AREA

CHARTER COMMUNICATIONS
(FIBER OPTIC)

FRONTIER COMMUNICATIONS
(TELEPHONE)

ADAMS-COLUMBIA ELECTRIC CO-OP
(BURRIED ELECTRIC)

CHARTER COMMUNICATIONS
(FIBER OPTIC)

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE URBAN ROAD & STH 33 BUTT JOINT CONSTRUCTION DETAILS

ASPHALTIC SURFACE

STH 22

STH 33

W4 W8 DY DY* SL R/W FO OH T E

13+00"A" 14+00"A" 15+00"A" 16+00"A" 17+00"A" 18+00"A"

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

ADAMS-COLUMBIA ELECTRIC CO-OP
(OVERHEAD ELECTRIC)

WISDOT
(ELECTRIC)

MOVING SIGNS TYPE II

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE RURAL TO URBAN BUTT JOINT CONSTRUCTION DETAILS

FRONTIER COMMUNICATIONS
(TELEPHONE)

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

TYPE J CURB POINT TABLE

PT #	STATION	OFFSET	RADIUS
1	314+74.24	97.78'	83.5'
2	315+05.76	18.45'	2.0'
3	315+35.84	36.45'	3.0'
4	315+37.88	26.93'	5.5'
5	315+33.99	21.73'	4.5'
11	316+61.61	-92.59'	80.0'
12	316+30.34	-16.71'	2.0'
13	316+01.11	-34.94'	3.5'
14	315+98.87	-25.13'	5.5'
15	316+01.72	-19.99'	4.5'
16	SAWING ASPHALT - 1' OFFSET FROM EXISTING CURB		

SEE "CONSTRUCTION DETAILS - ELECTRICAL PLAN" FOR FLASHING BEACON DETAILS

SEE S.D.D. "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION" FOR MORE INFORMATION

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN DETAILS - STH 22 STH 33 INTERSECTION	SHEET 94	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 0205044
PLOT DATE : 10/10/2019 7:57 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

R/W

R/W

RIP RAP MEDIUM

FRONTIER COMMUNICATIONS
(TELEPHONE)

C-11-3027 (72" CMP EXISTING)
SMOOTH LINED CULVERT LINER, STA 398+64, 66" REQ'D

PLACE RIP RAP MEDIUM OVER HR FABRIC AT BOTH ENDS OF CULVERT

396+00 397+00 398+00 399+00 400+00 401+00

STH 22

R/W

RIP RAP MEDIUM

CLEARING AND GRUBBING

ADAMS-COLUMBIA ELECTRIC CO-OP
(BURRIED ELECTRIC)

FRONTIER COMMUNICATIONS
(TELEPHONE)

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN DETAIL - C-11-3027	SHEET 95	E

2

DH5568-MARCELLON GPS
(DO NOT DISTURB)

REMOVING ASPHALTIC SURFACE BUTT JOINT REQ'D
SEE END OF PROJECT BUTT JOINT CONSTRUCTION
DETAILS

BARRY RD / CTH CM

N

END PROJECT
STATION 586+40.41

R/W

583+00

STH 22

12'

12'

584+00

W4

DY*

W4

585+00

WS-3

586+00

587+00

588+00

589+00

R/W

BARRY RD

LEGEND

W4	MARKING LINE EPOXY 4-INCH, WHITE
W8	MARKING LINE EPOXY 8-INCH, WHITE
WS-3	MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' LINE, 9' GAP
DY	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
DY*	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW (PLACED ACCORDING TO LOCATING NO PASSING ZONES)
DY**	MARKING LINE SAME DAY EPOXY 4-INCH, DOUBLE YELLOW (PLACED STA. 25+00 - 43+92; STA. 164+30 - 225+50)
CW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
SL	MARKING STOP LINE EPOXY 18-INCH, WHITE
A2	MARKING ARROW EPOXY, WHITE
WO	MARKING WORD EPOXY, WHITE

2

VILLAGE OF PARDEEVILLE (OVERHEAD ELECTRIC)

VILLAGE OF PARDEEVILLE (BURRIED ELECTRIC)

VILLAGE OF PARDEEVILLE (WATER)

VILLAGE OF PARDEEVILLE (SANITARY SEWER)

ALLIANT ENERGY (GAS)

STA 9+63, 19.5' RT
INLETS 2x3-H-S
1-1

REMOVING INLETS

CAUTION

HASKINS DR

9+25

9+50

9+75

STA 9+61, 16.8' LT
INLETS 2x3-H-S
1-2

VILLAGE OF PARDEEVILLE (STORM SEWER)

STORM SEWER TAP

STA 9+56, 41.6' LT
EXISTING STRUCTURE (TO REMAIN)
1

FOX RIVER

REMOVING INLETS

REMOVING STORM SEWER 18-INCH

STH 22

224+00 "BR"

224+50 "BR"

225+00 "BR"

225+50 "BR"

226+00 "BR"

226+50 "BR"

1-1 800.36

1-2 800.42

1 800.42

36' @ 2.00%
12" RCCP

26' @ 2.00%
12" RCCP

795.86

795.13

795.13

794.62

800

795

793

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	STORM SEWER	SHEET 97	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022501

PLOT DATE : 7/31/2019 10:03 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

N

STH 22

STH 33

CONSTRUCT TYPE 1 (MOD) CONC. BASE

PEDESTAL BASE, STANDARD, CABINET & METER
(BREAKER PEDESTAL TO BE INSTALLED BY OTHERS)

INSTALL 1-3" NON-METTALIC CONDUIT

REMOVE EX. BASE

CONSTRUCT 24"X42" PULL BOX (TYP.)

INSTALL ELECTRICAL WIRING

5'

4R

20'

REMOVE EX. ELEC. CABLE (TYP.)

REMOVE EX. PULL BOX

INSTAL DIRECTIONALLY BORED
1-3" NON-METTALIC CONDUIT (TYP.)

CONSTRUCT TROMBONE MOUNTED BEACON (TYP.)

REMOVE EX. CONC. BASE, PEDESTAL BASE,
STANDARD, STOP SIGN & BEACON (TYP.)

4'

25'

5'

25'

5'

20'

2R

INSTALL 2-2" NON-METTALIC CONDUIT BETWEEN
THE PULL BOX AND THE PEDESTAL BASE (TYP.)

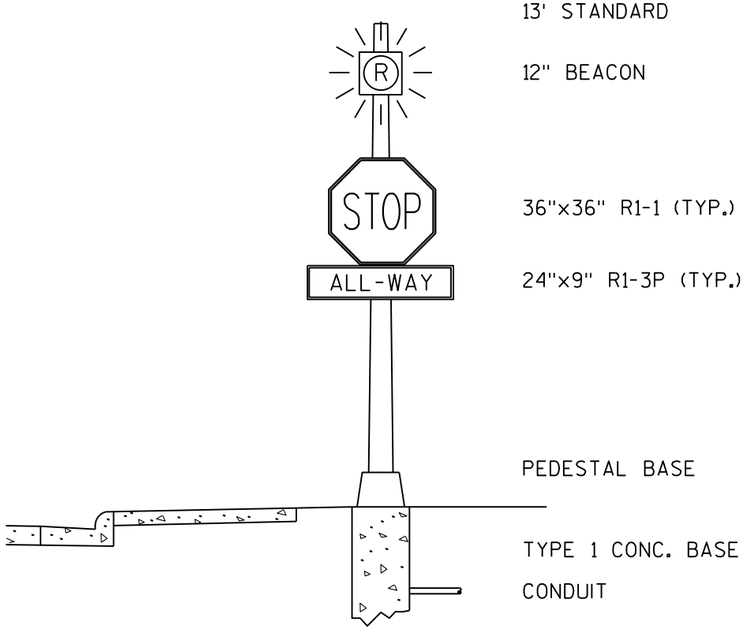
STH 33

STH 22

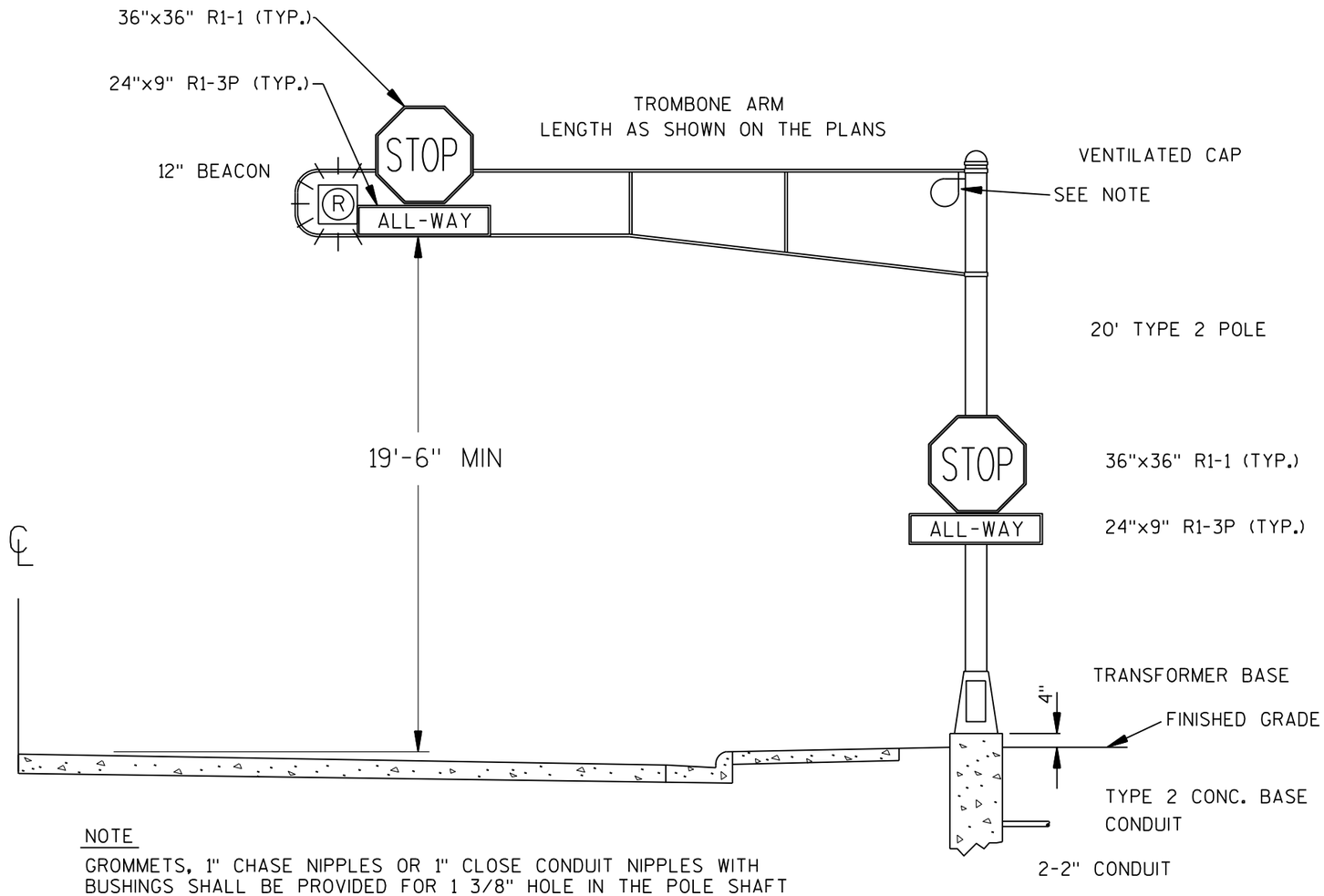
PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	ELECTRICAL PLAN DETAILS	SHEET 98	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\DESIGN\OTHER\BEACON\F11-0112.DWG
LAYOUT NAME - ELECTRICAL DETAIL

PLOT DATE : 6/27/2019 2:09 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:40 FT



EXISTING BEACON DETAIL
(TO BE REMOVED)

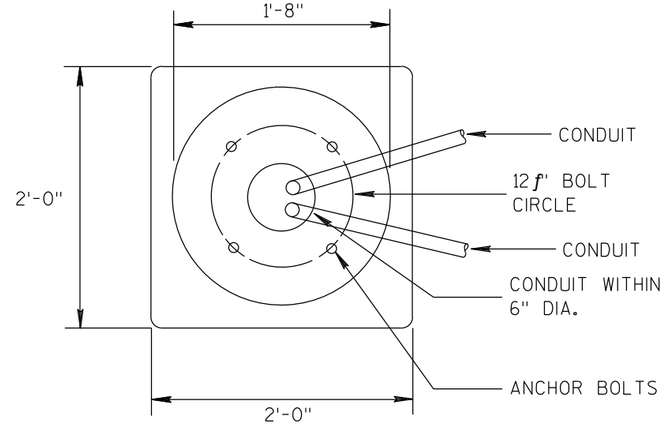


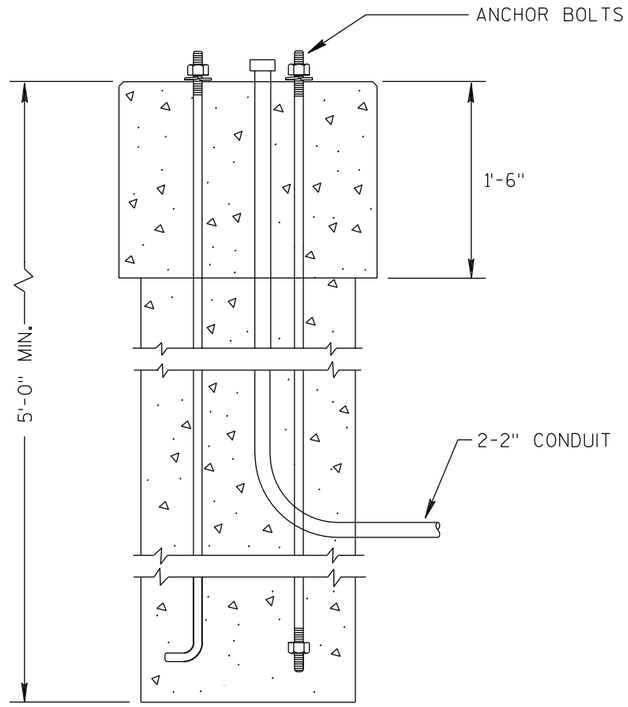
NOTE

GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 3/8" HOLE IN THE POLE SHAFT AND TROMBONE ARM FOR WIRING. PROVIDE 1' OF SLACK IN THE WIRE AS SHOWN TO ALLOW THE TROMBONE ARM TO BE TURNED WITHOUT DAMAGING THE WIRING.

PROPOSED TROMBONE MOUNTED BEACON DETAIL
(TO BE CONSTRUCTED)

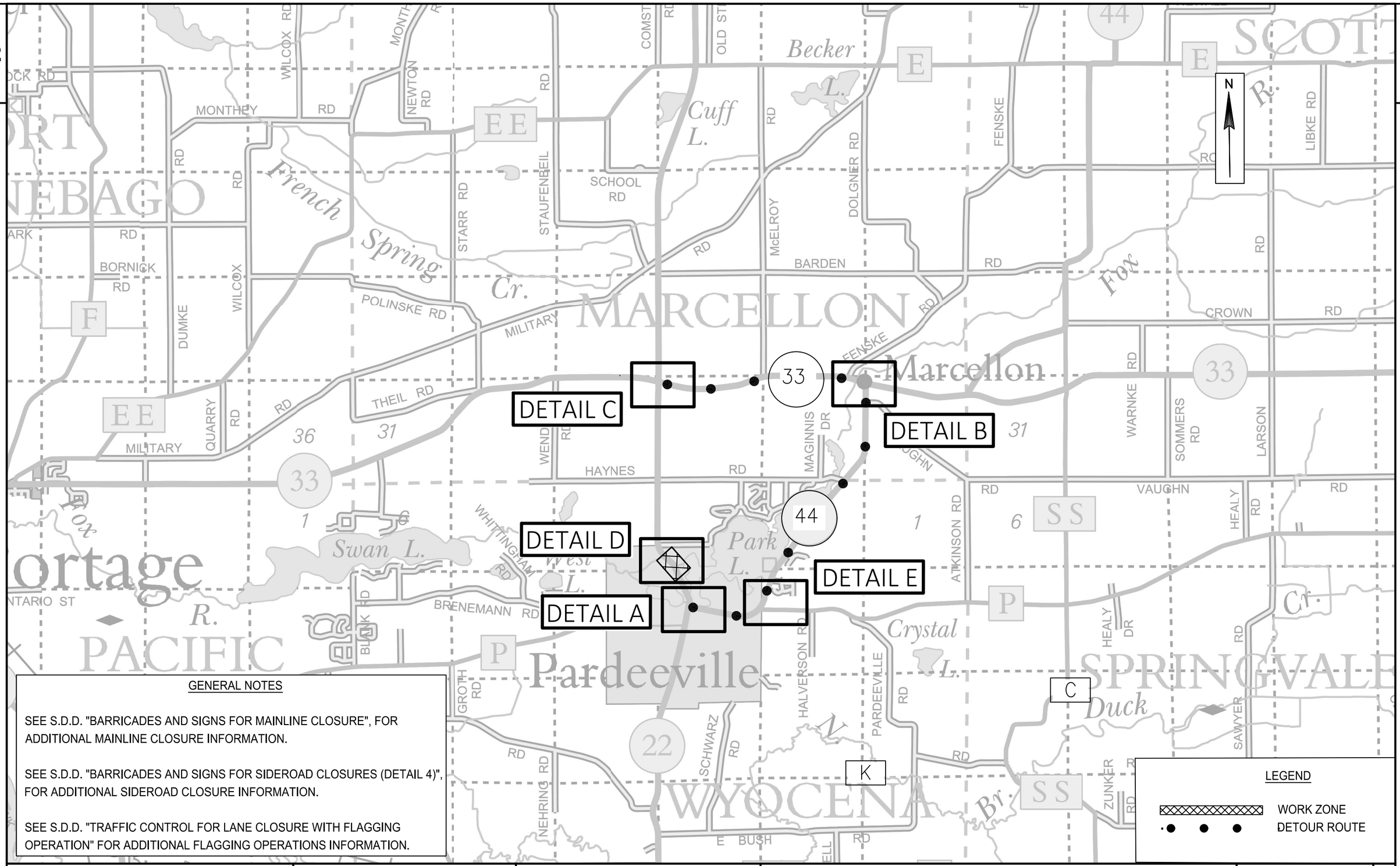
2





CONCRETE BASE, TYPE 1 (MODIFIED)

THIS DETAIL FOR USE IN CONJUNCTION WITH S.D.D. 9C2-9



PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - DETOUR	SHEET 101	E

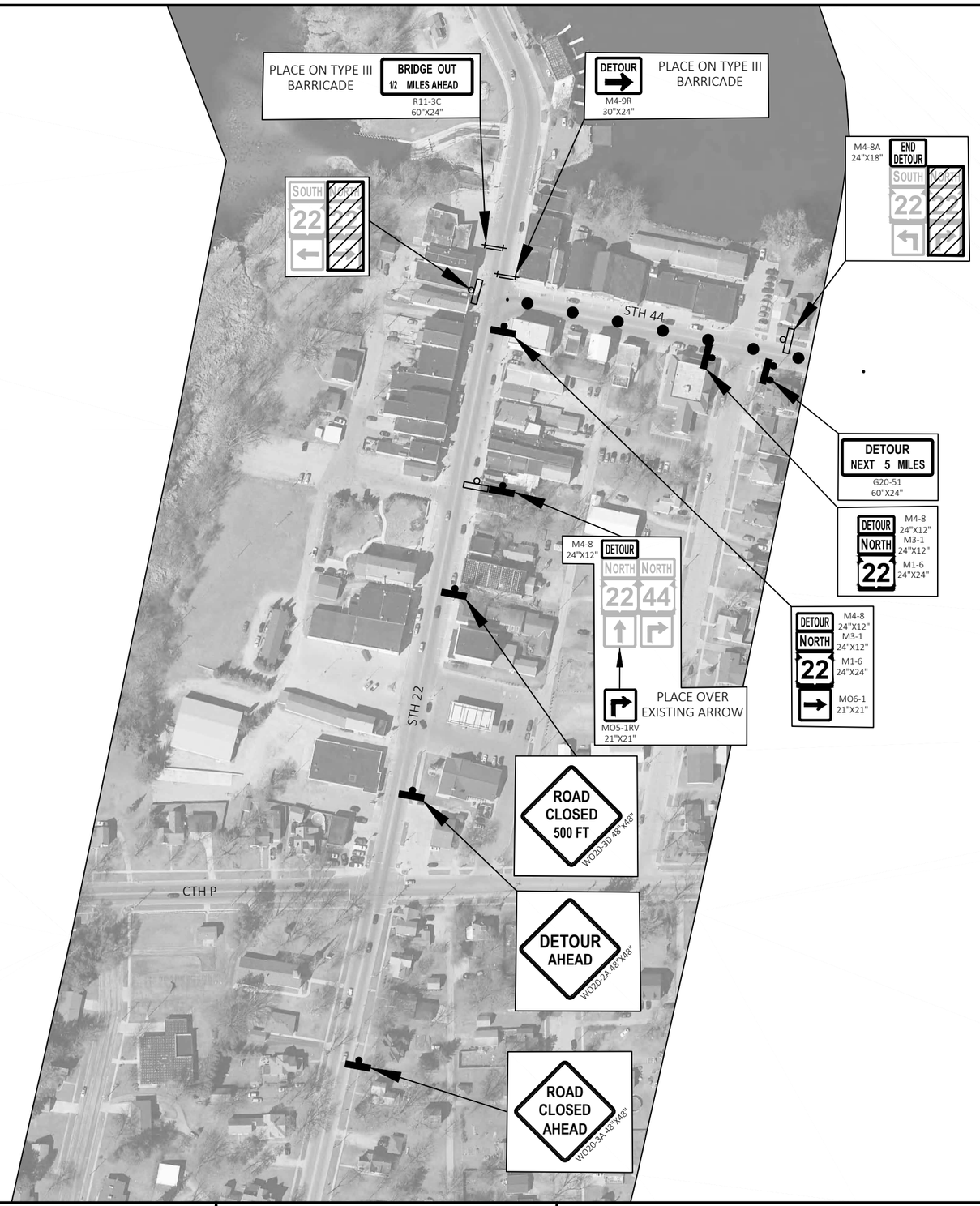
FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\DETOUR ROUTE.DWG
LAYOUT NAME - DETOUR ROUTE - 027001_DT

PLOT DATE : 7/31/2019 10:05 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2

N



LEGEND

DETOUR ROUTE

EXISTING SIGN MOUNTED ON POST(S)

PURPOSED SIGN MOUNTED ON POST(S)

22 PURPOSED SIGN

22 EXISTING SIGN

COVER EXISTING SIGN. PAID AS TRAFFIC CONTROL COVERING SIGNS TYPE II

TYPE III BARRICADE

GENERAL NOTES

THE NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

ALL EXISTING SIGNS THAT NEED TO BE COVERED SHALL BE COVERED WITH A BLANK ORANGE PANEL.

ALL M3 SIGNS WHICH ARE PART OF ANY DETOUR SHALL BE BLACK LETTERING ON A WHITE BACKGROUND.

ALL M05 AND M06 ARROW SIGNS SHALL BE THE SAME AS "M" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

PROJECT NO:6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - DETOUR - DETAIL A	SHEET 102	E

2

STH 33

STH 33

STH 44

N

EAST 33 | NORTH 44 | SOUTH 44
DETOUR SOUTH 22
M4-8 24"X12"
M3-3 24"X12"
M1-6 24"X24"
MO5-1R 21"X21"

M4-8 24"X12"
M3-1 24"X12"
M1-6 24"X24"
DETOUR NORTH 22
WEST 33
Portage 10
MO6-1 21"X21"

M4-8 24"X12"
M3-3 24"X12"
M1-6 24"X24"
DETOUR SOUTH 22
SOUTH 44
MO6-1 21"X21"

SOUTH 44
DETOUR SOUTH 22
M4-8 24"X12"
M3-3 24"X12"
M1-6 24"X24"
MO5-1L 21"X21"

SOUTH 22
M3-3 24"X12"
M1-6 24"X24"
DETOUR AHEAD
WO20-2A 48"X48"

NORTH 44 | SOUTH 44
DETOUR SOUTH 22
M4-8 24"X12"
M3-3 24"X12"
M1-6 24"X24"
MO6-1 21"X21"

NORTH 44 | EAST 33
DETOUR NORTH 22
M4-8 24"X12"
M3-1 24"X12"
M1-6 24"X24"
MO6-1 21"X21"

M4-8 24"X12"
M3-3 24"X12"
M1-6 24"X24"
DETOUR SOUTH 22
SOUTH 44

WEST 33 | NORTH 44 | EAST 33
DETOUR NORTH 22
M4-8 24"X12"
M3-1 24"X12"
M1-6 24"X24"
MO5-1L 21"X21"

LEGEND

- DETOUR ROUTE
- EXISTING SIGN MOUNTED ON POST(S)
- PURPOSED SIGN MOUNTED ON POST(S)
- 22 PURPOSED SIGN
- 22 EXISTING SIGN
- COVER EXISTING SIGN. PAID AS TRAFFIC CONTROL COVERING SIGNS TYPE II
- TYPE III BARRICADE

GENERAL NOTES

THE NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

ALL EXISTING SIGNS THAT NEED TO BE COVERED SHALL BE COVERED WITH A BLANK ORANGE PANEL.

ALL M3 SIGNS WHICH ARE PART OF ANY DETOUR SHALL BE BLACK LETTERING ON A WHITE BACKGROUND.

ALL M05 AND M06 ARROW SIGNS SHALL BE THE SAME AS "M" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - DETOUR - DETAIL B	SHEET 103	E

LEGEND

DETOUR ROUTE

EXISTING SIGN MOUNTED ON POST(S)

PURPOSED SIGN MOUNTED ON POST(S)

22 PURPOSED SIGN

22 EXISTING SIGN

COVER EXISTING SIGN. PAID AS TRAFFIC CONTROL COVERING SIGNS TYPE II

TYPE III BARRICADE

GENERAL NOTES

THE NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

ALL EXISTING SIGNS THAT NEED TO BE COVERED SHALL BE COVERED WITH A BLANK ORANGE PANEL.

ALL M3 SIGNS WHICH ARE PART OF ANY DETOUR SHALL BE BLACK LETTERING ON A WHITE BACKGROUND.

ALL M05 AND M06 ARROW SIGNS SHALL BE THE SAME AS "M" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

DETOUR M4-8 24"X12"
EAST SOUTH WEST
33 22 33
M05-1L 21"X21"
PLACE OVER EXISTING ARROW

1,000'

ROAD CLOSED AHEAD W020-3A 48"X48"

1,000'

DETOUR AHEAD W020-2A 48"X48"

STH 22

FOX_LAKE
PORTAGE

M4-8 24"X12"
M3-3 24"X12"
M1-6 24"X24"
M06-1 21"X21"
DETOUR
SOUTH
22
EAST WEST
33 33

SOUTH NORTH
22

PORTAGE
MONTELLO

END DETOUR M4-8A 24"X18"
SOUTH WEST NORTH
33 22

N

STH 33

SOUTH
22
M3-3 24"X12"
M1-6 24"X24"
DETOUR AHEAD W020-2A 48"X48"

DETOUR M4-8 24"X12"
NORTH EAST SOUTH
22 33 22
PLACE OVER EXISTING ARROW
M06-1 21"X21"

FOX_LAKE
MONTELLO

DETOUR M4-8 24"X12"
NORTH SOUTH
22 22
PLACE OVER EXISTING ARROW
M06-1 21"X21"

M4-8 24"X12"
M3-3 24"X12"
M1-6 24"X24"
DETOUR
SOUTH
22
EAST
33

DETOUR NEXT 5 MILES
G20-51
60"X24"

PLACE ON TYPE III BARRICADE
DETOUR
M4-9R 30"X24"

BRIDGE OUT
2 MILES AHEAD
R11-3C 60"X24"
PLACE ON TYPE III BARRICADE

PROJECT NO:6050-00-71	HWY:STH 22	COUNTY:COLUMBIA	TRAFFIC CONTROL - DETOUR - DETAIL C	SHEET 104	E

2

2

HASKIN DR

STH 22

FOX RIVER

PONDVIEW DR

LINTNER RD

N

ROAD CLOSED 500 FT
WO20-3D 48"x48"

BRIDGE OUT
R11-2B
48"X30"

500'

ROAD CLOSED 1000 FT
WO20-3C 48"X48"

BRIDGE OUT
R11-2B
48"X30"

500'

ROAD CLOSED 500 FT
WO20-3D 48"x48"

500'

ROAD CLOSED 1000 FT
WO20-3C 48"X48"

BRIDGE OUT
R11-2B
48"X30"

ROAD CLOSED 500 FT
WO20-3D 48"x48"

500'

500'

500'

ROAD CLOSED 500 FT
WO20-3D 48"x48"

BRIDGE OUT
R11-2B
48"X30"

ROAD CLOSED 500 FT
WO20-3D 48"x48"

LEGEND

- DETOUR ROUTE
- EXISTING SIGN MOUNTED ON POST(S)
- PURPOSED SIGN MOUNTED ON POST(S)
- 22 PURPOSED SIGN
- 22 EXISTING SIGN
- 22 COVER EXISTING SIGN. PAID AS TRAFFIC CONTROL COVERING SIGNS TYPE II
- TYPE III BARRICADE

GENERAL NOTES

THE NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

ALL EXISTING SIGNS THAT NEED TO BE COVERED SHALL BE COVERED WITH A BLANK ORANGE PANEL.

ALL M3 SIGNS WHICH ARE PART OF ANY DETOUR SHALL BE BLACK LETTERING ON A WHITE BACKGROUND.

ALL M05 AND M06 ARROW SIGNS SHALL BE THE SAME AS "M" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - DETOUR - DETAIL D	SHEET 105	E

2

N

STH 44

CTH P

SCHWANTZ RD

DETOUR SOUTH 22
M4-8 24"X12"
M3-3 24"X12"
M1-6 24"X24"
SOUTH 44 COUNTY P

NORTH 44
DETOUR NORTH 22
M4-8 24"X12"
M3-1 24"X12"
M1-6 24"X24"

DETOUR NORTH 22
M4-8 24"X12"
M3-1 24"X12"
M1-6 24"X24"
MO5-1R 21"X21"

NORTH 22
M3-1 24"X12"
M1-6 24"X24"
DETOUR AHEAD
W20.2A 48"X48"

44
DETOUR NORTH 22
M4-8 24"X12"
M3-1 24"X12"
M1-6 24"X24"
MO6-1 21"X21"

LEGEND

- DETOUR ROUTE
- EXISTING SIGN MOUNTED ON POST(S)
- PURPOSED SIGN MOUNTED ON POST(S)
- 22 PURPOSED SIGN
- 22 EXISTING SIGN
- COVER EXISTING SIGN. PAID AS TRAFFIC CONTROL COVERING SIGNS TYPE II
- TYPE III BARRICADE

GENERAL NOTES

THE NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

ALL EXISTING SIGNS THAT NEED TO BE COVERED SHALL BE COVERED WITH A BLANK ORANGE PANEL.

ALL M3 SIGNS WHICH ARE PART OF ANY DETOUR SHALL BE BLACK LETTERING ON A WHITE BACKGROUND.

ALL M05 AND M06 ARROW SIGNS SHALL BE THE SAME AS "M" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - DETOUR - DETAIL E	SHEET 106	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\PLAN DETAIL SHEETS\DETOUR ROUTE.DWG
LAYOUT NAME - 027001_dt(6)

PLOT DATE : 7/31/2019 10:08 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:200 FT

STH 22 SOUTHBOUND CONSTRUCTION: 1 OF 2



LEGEND

CURB RAMP(S) UNDER CONSTRUCTION

SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (WYOCENA)	SHEET 107	E

2



LEGEND

CURB RAMP(S) UNDER CONSTRUCTION

SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (WYOCENA)	SHEET E

FILE NAME : S:\MAD\1000--1099\1089\863\Correspondence\Owner\WisDOT\2019 02 01_WisDOT Project Files\02 Ped Overview Wyocena SB.dgn PLOT DATE : 8/1/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

STH 22 NORTHBOUND CONSTRUCTION: 1 OF 4



LEGEND

- CURB RAMP(S) UNDER CONSTRUCTION
- SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (WYOCENA)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\863\Correspondence\Owner\WisDOT\2019 02 01_WisDOT Project Files\03 Ped Overview Wyocena NB.dgn PLOT DATE : 8/1/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

N

S. COLUMBUS ST.

DODGE ST.

E. FRANKLIN ST.

E. MONROE ST.

S. COLUMBUS ST.

LANE ST.

28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00 40+00 41+00 42+00 43+00

STH 22

LINCOLN ST.

MAINTAIN PEDESTRIAN ACCESS BY SEQUENCING RAMP CONSTRUCTION WITH THE USE OF TEMPORARY PEDESTRIAN SURFACE ASPHALT.

DODGE ST.

E. FRANKLIN ST.

E. MONROE ST.

S. JACKSON ST.

LOVERS LANE

LEGEND

CURB RAMP(S) UNDER CONSTRUCTION

SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (WYOCENA)	SHEET 110	E

2

2

N

S. COLUMBUS ST.

DODGE ST.

E. FRANKLIN ST.

E. MONROE ST.

S. COLUMBUS ST.

LANE ST.

STH 22

LINCOLN ST.

28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00 40+00 41+00 42+00 43+00

MAINTAIN PEDESTRIAN ACCESS BY SEQUENCING RAMP CONSTRUCTION WITH THE USE OF TEMPORARY PEDESTRIAN SURFACE ASPHALT.

DODGE ST.

E. FRANKLIN ST.

E. MONROE ST.

S. JACKSON ST.

LOVERS LANE

LEGEND

CURB RAMP(S) UNDER CONSTRUCTION

SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (WYOCENA)	SHEET 111	E

2

2

N

S. COLUMBUS ST.

DODGE ST.

E. FRANKLIN ST.

E. MONROE ST.

LANE ST.

LINCOLN ST.

STH 22

28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00 40+00 41+00 42+00 43+00

MAINTAIN PEDESTRIAN ACCESS BY SEQUENCING RAMP CONSTRUCTION WITH THE USE OF TEMPORARY PEDESTRIAN SURFACE ASPHALT.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

S. JACKSON ST.

LOVERS LANE

LEGEND

CURB RAMP(S) UNDER CONSTRUCTION

SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (WYOCENA)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\863\Correspondence\Owner\WisDOT\2019 02 01_WisDOT Project Files\06 Ped Overview Wyocena NB.dgn PLOT DATE : 8/1/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



LEGEND

CURB RAMP(S) UNDER CONSTRUCTION

SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (PARDEEVILLE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\863\Correspondence\Owner\WisDOT\2019 02 01_WisDOT Project Files\07 Ped Overview Pardeeville SB.dgn PLOT DATE : 8/1/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

STH 22 SOUTHBOUND CONSTRUCTION: 2 OF 7



LEGEND

CURB RAMP(S) UNDER CONSTRUCTION

SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (PARDEEVILLE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\863\Correspondence\Owner\WisDOT\2019 02 01_WisDOT Project Files\08 Ped Overview Pardeeville SB.dgPLOT DATE : 8/1/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

STH 22 SOUTHBOUND CONSTRUCTION: 3 OF 7



LEGEND

CURB RAMP(S) UNDER CONSTRUCTION

SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (PARDEEVILLE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\863\Correspondence\Owner\WisDOT\2019 02 01_WisDOT Project Files\09 Ped Overview Pardeeville SB.dgPLOT DATE : 8/1/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

STH 22 SOUTHBOUND CONSTRUCTION: 4 OF 7



LEGEND

CURB RAMP(S) UNDER CONSTRUCTION

SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (PARDEEVILLE)	SHEET E

FILE NAME : S:\MAD\1000--1099\1089\863\Correspondence\Owner\WisDOT\2019 02 01_WisDOT Project Files\10 Ped Overview Pardeeville SB.dgn PLOT DATE : 8/1/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



LEGEND

CURB RAMP(S) UNDER CONSTRUCTION

SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (PARDEEVILLE)	SHEET 117	E

STH 22 SOUTHBOUND CONSTRUCTION: 6 OF 7

N

2

2

187+00 188+00 189+00 190+00 191+00 192+00 193+00 194+00 195+00 196+00 197+00 198+00 199+00 200+00 201+00 202+00 203+00

STH 22

LAKE ST.

E. CHESTNUT ST.

2ND ST.

LEGEND

CURB RAMP(S) UNDER CONSTRUCTION

SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

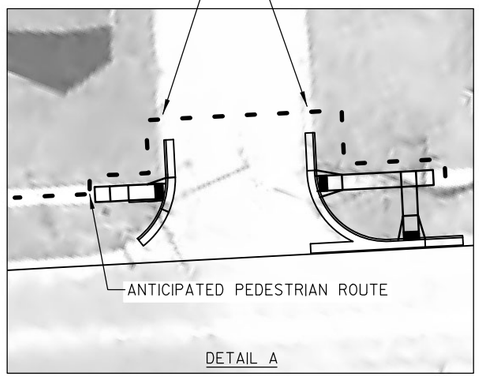
SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (PARDEEVILLE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\863\Correspondence\Owner\WisDOT\2019 02 01_WisDOT Project Files\12 Ped Overview Pardeeville SB.dgn PLOT DATE : 8/1/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

STH 22 SOUTHBOUND CONSTRUCTION: 7 OF 7

MAINTAIN PEDESTRIAN ACCESS WITH THE USE OF TEMPORARY PEDESTRIAN SURFACE ASPHALT, TEMPORARY CURB RAMPS, AND TEMPORARY PEDESTRIAN BARRICADE WITHIN EXISTING RIGHT OF WAY.



DETAIL A

MORTON ST.

SEE DETAIL A

MAINTAIN PEDESTRIAN ACCESS BEHIND THE EXISTING SIDEWALK WITH THE USE OF TEMPORARY PEDESTRIAN SURFACE ASPHALT AND TEMPORARY PEDESTRIAN BARRICADE WITHIN TEMPORARY LIMITED EASEMENT LIMITS.

208+00 209+00 210+00 211+00 212+00 213+00 214+00 215+00 STH 22 216+00 217+00 218+00 219+00 220+00 221+00 222+00 223+00

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

RIVER RD.

LEGEND

CURB RAMP(S) UNDER CONSTRUCTION

SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (PARDEEVILLE)	SHEET 119	E

STH 22 NORTHBOUND CONSTRUCTION: 1 OF 6



LEGEND

CURB RAMP(S) UNDER CONSTRUCTION

SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (PARDEEVILLE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\863\Correspondence\Owner\WisDOT\2019 02 01_WisDOT Project Files\14 Ped Overview Pardeeville NB.dgn PLOT DATE : 8/1/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

STH 22 NORTHBOUND CONSTRUCTION: 2 OF 6

N

ROOSEVELT ST.

VINCE ST.

W. LAFOLLETTE ST.

W CHESTNUT ST.

CROSS PEDESTRIANS AT MID BLOCK CROSSING APPROXIMATELY 650' NORTH.

00 173+00 174+00 175+00 176+00 177+00 178+00 179+00 180+00 181+00 182+00 183+00 184+00 185+00 186+00 187+00

STH 22

E. LAFOLLETTE ST.

E CHESTNUT ST.

MAPLE ST.

SPRING ST.

PEDESTRIAN ROUTE CONTINUES AND CROSSES E. CHESTNUT ST. ON THE WEST SIDE OF THE WISCONSIN ST. INTERSECTION.

LEGEND

CURB RAMP(S) UNDER CONSTRUCTION

SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (PARDEEVILLE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\863\Correspondence\Owner\WisDOT\2019 02 01_WisDOT Project Files\15 Ped Overview Pardeeville NB.dgn PLOT DATE : 8/1/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

STH 22 NORTHBOUND CONSTRUCTION: 3 OF 6

N

2

2



LEGEND

CURB RAMP(S) UNDER CONSTRUCTION

SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (PARDEEVILLE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\863\Correspondence\Owner\WisDOT\2019 02 01_WisDOT Project Files\16 Ped Overview Pardeeville NB.dgn PLOT DATE : 8/1/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

STH 22 NORTHBOUND CONSTRUCTION: 4 OF 6

N

2

2

187+00 188+00 189+00 190+00 191+00 192+00 193+00 194+00 195+00 196+00 197+00 198+00 199+00 200+00 201+00 202+00 203+00

STH 22

E. CHESTNUT ST.

LAKE ST.

2ND ST.

LEGEND

CURB RAMP(S) UNDER CONSTRUCTION

SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (PARDEEVILLE)	SHEET 123	E



LEGEND

CURB RAMP(S) UNDER CONSTRUCTION

SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

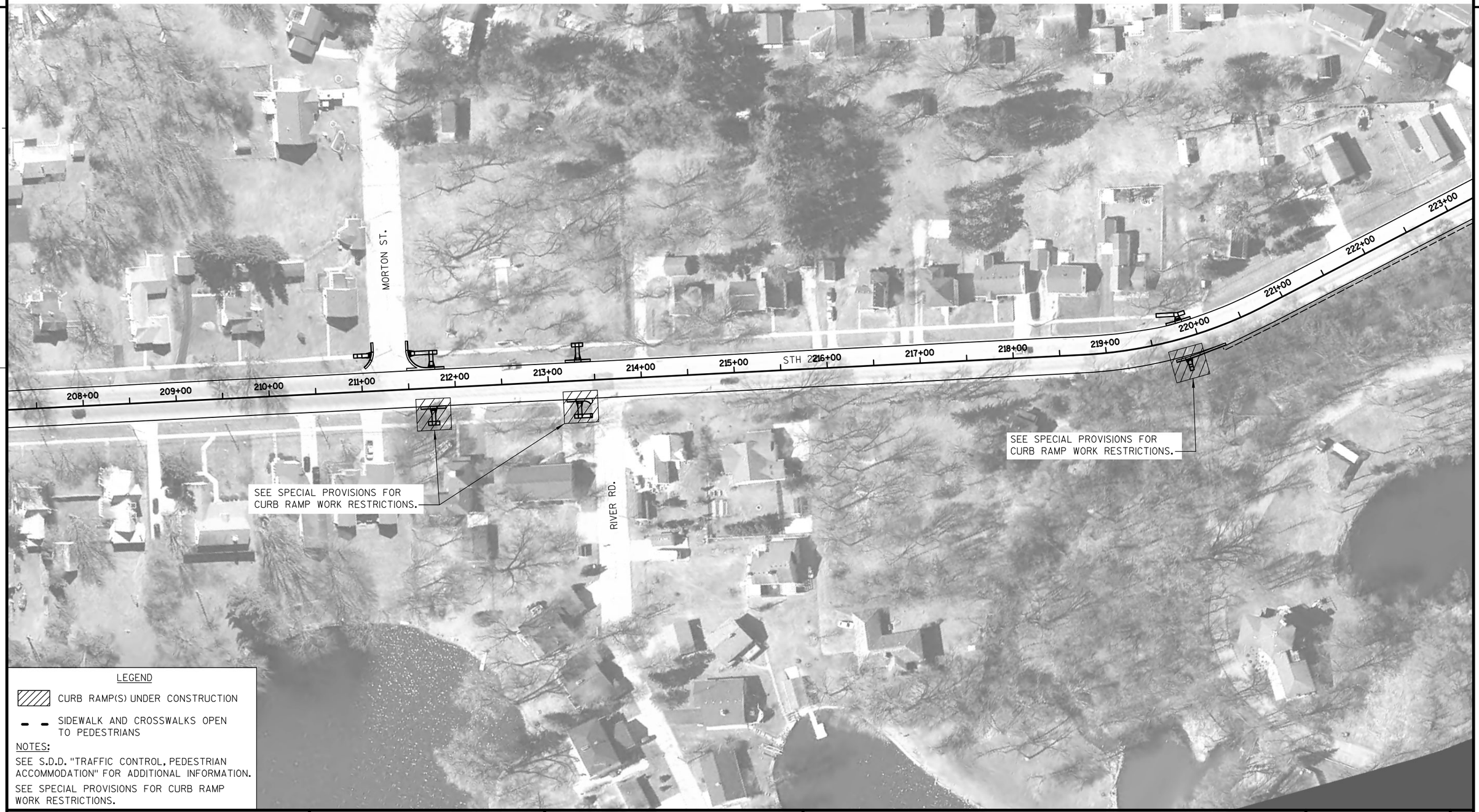
NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (PARDEEVILLE)	SHEET 124	E

STH 22 NORTHBOUND CONSTRUCTION: 6 OF 6



LEGEND

CURB RAMP(S) UNDER CONSTRUCTION

SIDEWALK AND CROSSWALKS OPEN TO PEDESTRIANS

NOTES:

SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

SEE SPECIAL PROVISIONS FOR CURB RAMP WORK RESTRICTIONS.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	TRAFFIC CONTROL - PEDESTRIAN ROUTES (PARDEEVILLE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\863\Correspondence\Owner\WisDOT\2019 02 01_WisDOT Project Files\19 Ped Overview Pardeeville NB.dgn PLOT DATE : 8/1/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

Estimate Of Quantities

6050-00-71

Line	Item	Item Description	Unit	Total	Qty
0002	201.0120	Clearing	ID	86.000	86.000
0004	201.0220	Grubbing	ID	86.000	86.000
0006	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 225+60 BR	LS	1.000	1.000
0008	204.0100	Removing Pavement	SY	240.000	240.000
0010	204.0105	Removing Pavement Butt Joints	SY	340.000	340.000
0012	204.0115	Removing Asphaltic Surface Butt Joints	SY	2,740.000	2,740.000
0014	204.0120	Removing Asphaltic Surface Milling	SY	201,360.000	201,360.000
0016	204.0130	Removing Curb	LF	234.000	234.000
0018	204.0150	Removing Curb & Gutter	LF	1,410.000	1,410.000
0020	204.0155	Removing Concrete Sidewalk	SY	457.000	457.000
0022	204.0165	Removing Guardrail	LF	7,050.000	7,050.000
0024	204.0180	Removing Delineators and Markers	EACH	6.000	6.000
0026	204.0195	Removing Concrete Bases	EACH	5.000	5.000
0028	204.0220	Removing Inlets	EACH	2.000	2.000
0030	204.0245	Removing Storm Sewer (size) 01. 18-Inch	LF	110.000	110.000
0032	205.0100	Excavation Common	CY	830.000	830.000
0034	206.1000	Excavation for Structures Bridges (structure) 01. B-11-171	LS	1.000	1.000
0036	209.0200.S	Backfill Controlled Low Strength	CY	150.000	150.000
0038	210.1500	Backfill Structure Type A	TON	544.000	544.000
0040	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 6050-00-71	LS	1.000	1.000
0042	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	995.000	995.000
0044	213.0100	Finishing Roadway (project) 01. 6050-00-71	EACH	1.000	1.000
0046	305.0110	Base Aggregate Dense 3/4-Inch	TON	5,018.000	5,018.000
0048	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,213.000	1,213.000
0050	390.0203	Base Patching Asphaltic	SY	624.000	624.000
0052	415.0120	Concrete Pavement 12-Inch	SY	77.000	77.000
0054	415.0410	Concrete Pavement Approach Slab	SY	117.000	117.000
0056	416.1010	Concrete Surface Drains	CY	2.000	2.000
0058	455.0605	Tack Coat	GAL	29,680.000	29,680.000
0060	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000
0062	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000
0064	460.2005	Incentive Density PWL HMA Pavement	DOL	34,340.000	34,340.000
0066	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	91,970.000	91,970.000
0068	460.2010	Incentive Air Voids HMA Pavement	DOL	54,610.000	54,610.000
0070	460.6224	HMA Pavement 4 MT 58-28 S	TON	54,610.000	54,610.000
0072	465.0105	Asphaltic Surface	TON	317.000	317.000
0074	465.0110	Asphaltic Surface Patching	TON	20.000	20.000

6050-00-71

Line	Item	Item Description	Unit	Total	Qty
0076	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	209.000	209.000
0078	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	33,910.000	33,910.000
0080	465.0450	Asphaltic Intersection Rumble Strips	SY	200.000	200.000
0082	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	39,600.000	39,600.000
0084	502.0100	Concrete Masonry Bridges	CY	512.000	512.000
0086	502.3200	Protective Surface Treatment	SY	522.000	522.000
0088	502.3210	Pigmented Surface Sealer	SY	108.000	108.000
0090	505.0400	Bar Steel Reinforcement HS Structures	LB	10,680.000	10,680.000
0092	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	62,400.000	62,400.000
0094	505.0800.S	Bar Steel Reinforcement HS Stainless Structures	LB	400.000	400.000
0096	516.0500	Rubberized Membrane Waterproofing	SY	20.000	20.000
0098	520.8700	Cleaning Culvert Pipes	EACH	1.000	1.000
0100	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	2.000	2.000
0102	521.3124	Culvert Pipe Corrugated Steel 24-Inch	LF	72.000	72.000
0104	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	1,960.000	1,960.000
0106	601.0120	Concrete Curb Type J	LF	200.000	200.000
0108	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	17.000	17.000
0110	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	1,340.000	1,340.000
0112	601.0600	Concrete Curb Pedestrian	LF	41.000	41.000
0114	602.0405	Concrete Sidewalk 4-Inch	SF	4,890.000	4,890.000
0116	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	420.000	420.000
0118	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	44.000	44.000
0120	606.0200	Riprap Medium	CY	20.000	20.000
0122	606.0300	Riprap Heavy	CY	177.000	177.000
0124	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	62.000	62.000
0126	611.0600	Inlet Covers Type A	EACH	9.000	9.000
0128	611.0624	Inlet Covers Type H	EACH	3.000	3.000
0130	611.0639	Inlet Covers Type H-S	EACH	2.000	2.000
0132	611.3230	Inlets 2x3-FT	EACH	2.000	2.000
0134	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	180.000	180.000
0136	614.0010	Barrier System Grading Shaping Finishing	EACH	13.000	13.000
0138	614.0115	Anchorages for Steel Plate Beam Guard Type 2	EACH	1.000	1.000
0140	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	3.000	3.000
0142	614.0200	Steel Thrie Beam Structure Approach	LF	20.600	20.600
0144	614.0305	Steel Plate Beam Guard Class A	LF	62.500	62.500
0146	614.2300	MGS Guardrail 3	LF	1,787.500	1,787.500
0148	614.2330	MGS Guardrail 3 K	LF	5,825.000	5,825.000
0150	614.2500	MGS Thrie Beam Transition	LF	78.800	78.800
0152	614.2610	MGS Guardrail Terminal EAT	EACH	22.000	22.000

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Line	Item	Item Description	Unit	Total	Qty
0154	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6050-00-71	EACH	1.000	1.000
0156	619.1000	Mobilization	EACH	1.000	1.000
0158	624.0100	Water	MGAL	88.000	88.000
0160	625.0100	Topsoil	SY	50.000	50.000
0162	625.0500	Salvaged Topsoil	SY	789.000	789.000
0164	627.0200	Mulching	SY	664.000	664.000
0166	628.1104	Erosion Bales	EACH	131.000	131.000
0168	628.1504	Silt Fence	LF	3,940.000	3,940.000
0170	628.1520	Silt Fence Maintenance	LF	13,540.000	13,540.000
0172	628.1905	Mobilizations Erosion Control	EACH	22.000	22.000
0174	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0176	628.2004	Erosion Mat Class I Type B	SY	4,183.000	4,183.000
0178	628.6005	Turbidity Barriers	SY	308.000	308.000
0180	628.7010	Inlet Protection Type B	EACH	4.000	4.000
0182	628.7015	Inlet Protection Type C	EACH	39.000	39.000
0184	628.7020	Inlet Protection Type D	EACH	16.000	16.000
0186	628.7555	Culvert Pipe Checks	EACH	18.000	18.000
0188	629.0210	Fertilizer Type B	CWT	0.520	0.520
0190	630.0120	Seeding Mixture No. 20	LB	12.300	12.300
0192	630.0140	Seeding Mixture No. 40	LB	6.000	6.000
0194	630.0500	Seed Water	MGAL	94.500	94.500
0196	633.5200	Markers Culvert End	EACH	4.000	4.000
0198	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	16.000	16.000
0200	637.2210	Signs Type II Reflective H	SF	71.680	71.680
0202	637.2230	Signs Type II Reflective F	SF	3.000	3.000
0204	638.2102	Moving Signs Type II	EACH	15.000	15.000
0206	638.2602	Removing Signs Type II	EACH	8.000	8.000
0208	642.5401	Field Office Type D	EACH	1.000	1.000
0210	643.0300	Traffic Control Drums	DAY	4,799.000	4,799.000
0212	643.0410	Traffic Control Barricades Type II	DAY	651.000	651.000
0214	643.0420	Traffic Control Barricades Type III	DAY	2,478.000	2,478.000
0216	643.0705	Traffic Control Warning Lights Type A	DAY	3,857.000	3,857.000
0218	643.0900	Traffic Control Signs	DAY	17,213.000	17,213.000
0220	643.0920	Traffic Control Covering Signs Type II	EACH	7.000	7.000
0222	643.1050	Traffic Control Signs PCMS	DAY	56.000	56.000
0224	643.5000	Traffic Control	EACH	1.000	1.000
0226	644.1410	Temporary Pedestrian Surface Asphalt	SF	660.000	660.000
0228	644.1601	Temporary Curb Ramp	DAY	28.000	28.000
0230	644.1810	Temporary Pedestrian Barricade	LF	235.000	235.000

6050-00-71

Line	Item	Item Description	Unit	Total	Qty
0232	645.0111	Geotextile Type DF Schedule A	SY	130.000	130.000
0234	645.0120	Geotextile Type HR	SY	388.000	388.000
0236	646.1020	Marking Line Epoxy 4-Inch	LF	139,552.000	139,552.000
0238	646.3020	Marking Line Epoxy 8-Inch	LF	510.000	510.000
0240	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	65,793.000	65,793.000
0242	646.5020	Marking Arrow Epoxy	EACH	2.000	2.000
0244	646.5120	Marking Word Epoxy	EACH	1.000	1.000
0246	646.6120	Marking Stop Line Epoxy 18-Inch	LF	818.000	818.000
0248	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	2,070.000	2,070.000
0250	648.0100	Locating No-Passing Zones	MI	10.900	10.900
0252	649.0105	Temporary Marking Line Paint 4-Inch	LF	131,300.000	131,300.000
0254	649.0250	Temporary Marking Line Removable Tape 8-Inch	LF	2,140.000	2,140.000
0256	650.4000	Construction Staking Storm Sewer	EACH	2.000	2.000
0258	650.4500	Construction Staking Subgrade	LF	44.000	44.000
0260	650.5000	Construction Staking Base	LF	82.000	82.000
0262	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	1,620.000	1,620.000
0264	650.6000	Construction Staking Pipe Culverts	EACH	1.000	1.000
0266	650.6500	Construction Staking Structure Layout (structure) 01. B-11-171	LS	1.000	1.000
0268	650.7000	Construction Staking Concrete Pavement	LF	44.000	44.000
0270	650.8000	Construction Staking Resurfacing Reference	LF	57,460.000	57,460.000
0272	650.8500	Construction Staking Electrical Installations (project) 01. 6050-00-71	LS	1.000	1.000
0274	650.9000	Construction Staking Curb Ramps	EACH	47.000	47.000
0276	650.9910	Construction Staking Supplemental Control (project) 01. 6050-00-71	LS	1.000	1.000
0278	650.9920	Construction Staking Slope Stakes	LF	82.000	82.000
0280	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	50.000	50.000
0282	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	50.000	50.000
0284	652.0615	Conduit Special 3-Inch	LF	300.000	300.000
0286	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	4.000	4.000
0288	653.0905	Removing Pull Boxes	EACH	1.000	1.000
0290	654.0101	Concrete Bases Type 1	EACH	1.000	1.000
0292	654.0102	Concrete Bases Type 2	EACH	4.000	4.000
0294	655.0230	Cable Traffic Signal 5-14 AWG	LF	3,000.000	3,000.000
0296	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	750.000	750.000
0298	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	4.000	4.000
0300	657.0305	Poles Type 2	EACH	4.000	4.000
0302	657.0590	Trombone Arms 20-FT	EACH	2.000	2.000
0304	657.0595	Trombone Arms 25-FT	EACH	2.000	2.000

6050-00-71

Line	Item	Item Description	Unit	Total	Qty
0306	658.0171	Traffic Signal Face 1S 12-Inch	EACH	4.000	4.000
0308	690.0150	Sawing Asphalt	LF	2,178.000	2,178.000
0310	690.0250	Sawing Concrete	LF	1,562.000	1,562.000
0312	715.0415	Incentive Strength Concrete Pavement	DOL	500.000	500.000
0314	715.0502	Incentive Strength Concrete Structures	DOL	3,072.000	3,072.000
0316	740.0440	Incentive IRI Ride	DOL	43,730.000	43,730.000
0318	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,000.000	1,000.000
0320	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	800.000	800.000
0322	SPV.0060	Special 01. Storm Sewer Tap	EACH	1.000	1.000
0324	SPV.0060	Special 02. Abandoning Cattle Pass	EACH	1.000	1.000
0326	SPV.0060	Special 03. Inlet Covers Type DW	EACH	2.000	2.000
0328	SPV.0060	Special 04. Verify Landmark Reference Monuments	EACH	9.000	9.000
0330	SPV.0060	Special 05. Landmark Reference Monuments Special	EACH	9.000	9.000
0332	SPV.0090	Special 01. Removing HMA Pavement Notched Wedge Longitudinal Joint Milling	LF	47,370.000	47,370.000
0334	SPV.0090	Special 02. Smooth Lined CMP Culvert Liner, STA. 398+64, 66-Inch Diameter	LF	118.000	118.000
0336	SPV.0090	Special 03. Concrete Joint and Crack Cleaning and Repair	LF	410.000	410.000
0338	SPV.0090	Special 04. Concrete Curb & Gutter 30-Inch HES Type D	LF	40.000	40.000
0340	SPV.0105	Special 01. Remove Traffic Signals, STH 22 and STH 33	LS	1.000	1.000
0342	SPV.0165	Special 01. Concrete Sidewalk HES 4-Inch	SF	222.000	222.000
0344	SPV.0180	Special 01. Removing Asphaltic Surface Milling Salvaged and Delivered	SY	6,500.000	6,500.000
0346	SPV.0180	Special 02. Removing Distressed Pavement Milling	SY	2,220.000	2,220.000

CLEARING AND GRUBBING SUMMARY

CATEGORY	STATION	LOCATION	201.0120 ID	201.0220 ID
0010	179+50	37' RT	68	68
	398+88	62.5' RT	6	6
	398+89	67.5' RT	6	6
	398+95	66.1' RT	6	6
		TOTALS	86	86

REMOVING PAVEMENT

CATEGORY	STATION - STATION	LOCATION	204.0100 SY	REMARKS
0010	303+33 - 308+87	RT	120	INTERSECTION RUMBLE STRIP REMOVAL
	322+52 - 333+30	LT	120	INTERSECTION RUMBLE STRIP REMOVAL
		TOTAL	240	

REMOVING PAVEMENT BUTT JOINTS

CATEGORY	STATION - STATION	LOCATION	204.0105 SY
0010	9+12 - 9+56	RT/LT	170
	18+33 - 18+95	RT/LT	170
		TOTAL	340

REMOVING ASPHALTIC SURFACE

CATEGORY	STATION - STATION	LOCATION	204.0115 BUTT JOINTS SY	204.0120 MILLING SY	SPV.0090.01 REMOVING HMA PAVEMENT NOTCHED WEDGE LONGITUDINAL JOINT MILLING LF	SPV.0180.01* REMOVING ASPHALTIC SURFACE MILLING SALVAGED AND DELIVERED SY	SPV.0180.02 REMOVING DISTRESSED PAVEMENT MILLING SY	REMARKS
0010	9+12 - 24+70	RT/LT	200	2,660	1,560	---	---	2" DEPTH
	24+70 - 46+50	RT/LT	180	9,450	---	---	---	4" DEPTH
	24+70 - 46+50	RT/LT	---	---	---	---	470	2 1/2" DEPTH (TYP.)
	46+50 - 147+25	RT/LT	570	28,680	10,080	---	---	2" DEPTH
	147+25 - 226+62	RT/LT	410	28,480	---	---	---	4" DEPTH
	147+25 - 226+62	RT/LT	---	---	---	---	1,750	2 1/2" DEPTH (TYP.)
	226+62 - 314+50	RT/LT	370	32,330	8,790	---	---	2" DEPTH
	314+50 - 317+00	RT/LT	340	3,140	---	---	---	4" DEPTH
	317+00 - 478+00	RT/LT	350	58,250	16,100	---	---	2" DEPTH
	478+00 - 586+36	RT/LT	320	38,370	10,840	---	---	2" DEPTH
	SUBTOTALS (0010)		2,740	201,360	47,370	0	2,220	
0030	147+25 - 226+62	RT/LT	---	---	---	6,500	0	4" DEPTH
	SUBTOTALS (0030)		0	0	0	6,500		
	TOTALS		2,740	201,360	47,370	6,500	2,220	

*NOTE: EXACT LOCATION OF REMOVING ASPHALTIC SURFACE MILLING SALVAGED AND DELIVERED TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE BID ITEM IS FOR MILLING, AND FOR SALVAGING AND DELIVERING AN EQUIVALENT AMOUNT OF SALVAGED MILLING MATERIAL EQUAL TO THE SQUARE YARDS (SY) OF EXISTING PARKING LANE AREA, STATION LEFT/RIGHT (6,500 SY TOTAL) WITHIN THE VILLAGE OF PARDEEVILLE AT A 4-INCH MILL DEPTH. THE CONTRACTOR MAY REQUEST TO OBTAIN THE EQUIVALENT AMOUNT OF SALVAGED MILLING MATERIAL (6,500 SY AT A 4-INCH MILL DEPTH) WITHIN A 2-INCH MILLING SEGMENT; HOWEVER, THE MAXIMUM REMOVING ASPHALTIC SURFACE MILLING SALVAGED AND DELIVERED QUANTITY FOR PAYMENT SHALL NOT EXCEED 6,500 SY. SEE SPECIAL PROVISIONS FOR ADDITONAL INFORMATION.

REMOVING CONCRETE SIDEWALK

CATEGORY	STATION - STATION	LOCATION	204.0155 SY
0010	9+12 - 46+50	RT	100
	9+12 - 46+50	LT	77
	147+25 - 227+80	RT	110
	147+25 - 227+80	LT	170
		TOTAL	457

REMOVING DELINEATORS AND MARKERS

CATEGORY	STATION	LOCATION	204.0180 EACH
0010	64+50	RT/LT	4
	398+64	RT/LT	2
		TOTAL	6

REMOVING CURB

CATEGORY	STATION - STATION	LOCATION	204.0130 LF
0010	219+39 - 219+72	RT	34
	315+00 - 316+35	RT/LT	200
		TOTAL	234

REMOVING CURB & GUTTER

CATEGORY	STATION - STATION	LOCATION	204.0150 LF
0010	9+12 - 46+50	RT	170
	9+12 - 46+50	LT	150
	147+25 - 227+80	RT	420
	147+25 - 227+80	LT	670
		TOTAL	1,410

REMOVING GUARDRAIL

CATEGORY	STATION - STATION	LOCATION	204.0165 LF
0010	46+50 - 147+25	RT	590
	46+50 - 147+25	LT	690
	147+25 - 227+80	RT	440
	147+25 - 227+80	LT	140
	227+80 - 319+00	RT	420
	227+80 - 319+00	LT	440
	319+00 - 478+00	RT	1,980
	319+00 - 478+00	LT	2,350
		TOTAL	7,050

REMOVING INLETS

CATEGORY	STATION	OFFSET	204.0220 EACH
0010	224+74	23.3' LT	1
	225+22	26.3' LT	1
		TOTAL	2

REMOVING STORM SEWER

CATEGORY	STATION - STATION	LOCATION	204.0245 01. 18-INCH LF
0010	224+75 - 225+81	LT	110

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

CATEGORY	STATION - STATION	LOCATION	211.0400 STA
0010	9+12 - 46+50	RT/LT	37
	46+50 - 147+25	RT/LT	202
	147+25 - 227+80	RT/LT	39
	227+80 - 319+00	RT/LT	182
	319+00 - 478+00	RT/LT	318
	478+00 - 586+36	RT/LT	217
		TOTAL	995

EARTHWORK

CATEGORY	STATION - STATION	205.0100 EXCAVATION COMMON (1) CUT (2) CY	EBS (3) CY	MASS ORDINATE +/- (4)	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON (5)
0010	9+12 - 46+50	150	8	150	15
	147+25 - 227+80	640	32	640	64
	TOTALS	830		790	79

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

FINISHING ROADWAY

CATEGORY	PROJECT	213.0100 EACH
0010	01. 6050-00-71	1

NOTES

1) EXCAVATION COMMON IS THE SUM OF THE CUT AND EBS EXCAVATION.
2) CONCRETE SIDEWALK AND CONCRETE CURB & GUTTER ARE INCLUDED IN CUT.
3) EBS EXCAVATION TO BE BACKFILLED WITH BASE AGGREGATE DENSE 1 1/4-INCH. UNDISTRIBUTED EBS EXCAVATION = 5% OF CUT. SOILS REMOVED AS EBS MUST BE WASTED OFFSITE AND NOT REUSED AS FILL.
4) MASS ORDINATE = CUT.
5) BASE AGGREGATE DENSE 1 1/4-INCH IS USED FOR BACKFILL OF EBS. BASE AGGREGATE DENSE 1 1/4-INCH = EBS X BASE AGGREGATE DENSE 1 1/4-INCH UNIT WEIGHT FACTOR (2.0 TON/CY).

BASE PATCHING ASPHALTIC

CATEGORY	STATION - STATION	LOCATION	390.0203 SY
0010	9+12 - 18+95	RT/LT	280
	303+33 - 308+87	RT	120
	322+52 - 333+30	LT	120
	UNDISTRIBUTED	---	104
		TOTAL	624

BASE AGGREGATE DENSE

CATEGORY	STATION - STATION	LOCATION	305.0110 3/4-INCH TON	* 305.0120 1 1/4-INCH TON
0010	9+12 - 46+50	RT/LT	300	85
	46+50 - 147+25	RT/LT	780	---
	147+25 - 227+80	RT/LT	250	600
	227+80 - 319+00	RT/LT	640	20
	319+00 - 478+00	RT/LT	1,350	---
	478+00 - 586+36	RT/LT	540	---
	UNDISTRIBUTED		1,158	141
		TOTALS	5,018	846

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

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CONCRETE PAVEMENT

CATEGORY	STATION - STATION	LOCATION	415.0120 12-INCH SY	415.0410 APPROACH SLAB SY
0010	225+09 - 226+62	RT/LT	77	117

CONCRETE SURFACE DRAINS

CATEGORY	STATION - STATION	LOCATION	416.1010 CY
0010	226+30 - 226+46	RT	2

HMA PERCENT WITHIN LMITS (PWL)

CATEGORY	PROJECT	460.0105.S TEST STRIP VOLUMETRICS EACH	460.0110.S TEST STRIP DENSITY EACH
0010	6050-00-71	1	2

ASPHALTIC ITEMS SUMMARY

CATEGORY	STATION - STATION	LOCATION	455.0605 TACK COAT GAL	460.6224 HMA PAVMENT 4 MT 58-28 S TON	465.0105 ASPHALTIC SURFACE TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	SPV.0090.03 CONCRETE JOINT AND CRACK CLEANING LF	REMARKS
0010	9+12 - 46+50	RT/LT	1,860	3,400	66	---	410	ASPHALTIC SURFACE AT LANE ST. AND REMOVING DISTRESSED PAVEMENT MILLING
	46+50 - 147+25	RT/LT	4,880	8,980	---	55	---	
	147+25 - 227+80	RT/LT	3,380	6,260	240	91	---	ASPHALTIC SURFACE FOR REMOVING DISTRESSED PAVEMENT MILLING
	227+80 - 319+00	RT/LT	5,030	9,310	11	38	---	
	319+00 - 478+00	RT/LT	8,170	15,000	---	18	---	
	478+00 - 586+36	RT/LT	5,580	10,200	---	7	---	
	SUBTOTALS (0010)		28,900	53,150	317	209	410	
0030	147+25 - 227+80	RT/LT	780	1,460	---	---	---	
	SUBTOTALS (0030)		780	1,460	0	0	0	
	TOTALS		29,680	54,610	317	209	410	

PWL MIXTURE USE TABLE

THE FOLLOWING ACCEPTANCE CRITERIA ARE APPLICABLE FOR THIS PROJECT:

LOCATION	STATION	-	STATION	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
24-FOOT DRIVING LANE	9+12	-	18+86	LOWER LAYER	CONCRETE	4 MT 58-28 S	300	VARIES 1.25" TO 2.75"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
24-FOOT DRIVING LANE	9+12	-	18+86	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	260	1.75"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
OUTSIDE SHOULDERS	9+12	-	18+86	LOWER LAYER	EXISTING HMA SURFACE AND EXISTING BASE SURFACE	4 MT 58-28 S	100	1.75"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
OUTSIDE SHOULDERS	9+12	-	18+86	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	100	1.75"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
24-FOOT DRIVING LANE	18+86	-	586+36	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	16,950	2"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
24-FOOT DRIVING LANE	18+86	-	586+36	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	16,950	2"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
OUTSIDE SHOULDERS	18+86	-	586+36	LOWER LAYER	MILLED EXISTING HMA SURFACE AND EXISTING BASE	4 MT 58-28 S	9,240	2"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
OUTSIDE SHOULDERS	18+86	-	586+36	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	9,240	2"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE

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ASPHALTIC RUBMLE STRIP SUMMARY

CATEGORY	STATION - STATION	LOCATION	465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL (TYPE 1) LF	465.0450 ASPHALTIC INTERSECTION RUMBLE STRIPS SY	465.0475 ASPHALTIC CENTER LINE RUMBLE STRIPS 2-LANE RURAL LF
0010	9+12 - 46+50	RT/LT	1,600	---	860
	46+50 - 147+25	RT/LT	16,600	---	6,720
	147+25 - 227+80	RT/LT	1,210	---	---
	227+80 - 319+00	RT/LT	14,500	100	7,580
	319+00 - 478+00	RT/LT	---	100	14,600
	478+00 - 586+36	RT/LT	---	---	9,840
		TOTALS	33,910	200	39,600

ASPHALTIC SURFACE PATCHING

CATEGORY	LOCATION	465.011 TON	REMARKS
0010	UNDISTRIBUTED	20	FOR RAMPING BETWEEN SURFACES AND PATCHING POT HOLES

CULVERT SUMMARY

CATEGORY	STATION	LOCATION	521.1024 APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH EACH	521.3124 CULVERT PIPE CORRUGATED STEEL 24-INCH LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH
0010	64+50	RT/LT	2	72	1

STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH

CATEGORY	STATION - STATION	LOCATION	608.0312 LF
0010	224+80.3 - 225+16.7	LT	36
	225+16.7 - 225+41.0	LT	26
		TOTAL	62

CONCRETE CURB AND CONCRETE CURB & GUTTER SUMMARY

CATEGORY	STATION - STATION	LOCATION	601.0120 CONCRETE CURB TYPE J LF	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0600 CONCRETE CURB PEDESTRIAN LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	SPV.0090.04 CONCRETE CURB & GUTTER 30-INCH HES TYPE D LF	REMARKS
0010	9+12 - 46+50	RT/LT	---	---	330	20	350	---	
	147+25 - 227+80	RT/LT	---	17	1,010	21	1,070	40	HES AT CHESTNUT ST. NORTHWEST QUADRANT
	227+80 - 319+00	RT/LT	200	---	---	---	200	---	
		TOTALS	200	17	1,340	41	1,620	40	

CONCRETE SIDEWALK SUMMARY

CATEGORY	STATION - STATION	LOCATION	602.0405 CONCRETE SIDEWALK 4-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	SPV.0165.01 CONCRETE SIDEWALK HES 4-INCH SF	REMARKS
0010	9+12 - 46+50	RT/LT	2,000	140	44	15	92	HES AT MONROE ST. SOUTHEAST QUADRANT
	147+25 - 227+80	RT/LT	2,890	280	---	32	130	HES AT CHESTNUT ST. NORTHWEST QUADRANT
		TOTALS	4,890	420	44	47	222	

RIPRAP SUMMARY

CATEGORY	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	* 645.0120 GEOTEXTILE TYPE HR SY
0010	64+50	LT	6	20
	226+45	RT	2	7
	398+32	LT	5	16
	398+97	RT	7	21
		TOTALS	20	64

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

INLET SUMMARY

CATEGORY	STATION	LOCATION	611.0600 INLET COVERS TYPE A EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	SPV.0060.03 INLET COVERS TYPE DW EACH	611.3230 INLETS 2x3-FT EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	SPV.0060.01 STORM SEWER TAP EACH
0010	32+93.8	RT	1	---	---	---	---	---	---
	36+21.8	LT	---	1	---	---	---	---	---
	36+22.4	LT	---	1	---	---	---	---	---
	172+65.6	LT	1	---	---	---	---	---	---
	173+10.8	LT	1	---	---	---	---	---	---
	179+28.4	LT	1	---	---	---	---	---	---
	179+67.7	LT	1	---	---	---	---	---	---
	186+15.0	LT	1	---	---	---	---	---	---
	186+77.3	LT	1	---	---	---	---	---	---
	192+92.5	LT	1	---	---	---	---	---	---
	193+20.0	LT	1	---	---	---	---	---	---
	196+05.6	RT	---	1	---	---	---	---	---
	219+99.6	RT	---	---	---	1	---	---	---
	220+19.1	RT	---	---	---	1	---	---	---
	9+61.0	16.8' LT	---	---	1	---	1	1	---
	9+63.0	19.5' RT	---	---	1	---	1	1	---
	225+41.0	LT	---	---	---	---	---	---	1
		TOTALS	9	3	2	2	2	2	1

MGS GUARDRAIL SUMMARY

CATEGORY	STATION - STATION	LOCATION	614.0010 BARRIER SYSTEM GRADING SHAPING FINISHING EACH	FOR INFORMATION ONLY EXCAVATION COMMON CY	FOR INFORMATION ONLY BORROW CY	FOR INFORMATION ONLY SALVAGED TOPSOIL SY	FOR INFORMATION ONLY FERTILIZER TYPE B CWT	FOR INFORMATION ONLY SEEDING MIXTURE NO. 20 LB	614.0115 ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2 EACH	614.0200 STEEL THRIE BEAM STRUCTURE APPROACH LF	614.0305 STEEL PLATE BEAM GUARD CLASS A LF	614.2300 MGS GUARDRAIL 3 LF	614.2330 MGS GUARDRAIL 3 K LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
0010	76+14.4 - 84+33.1	LT	1	3	47	280	0.18	8	---	---	---	712.5	---	---	2
	87+00.0 - 94+06.3	RT	1	---	55	290	0.18	8	---	---	---	600.0	---	---	2
	219+89.0 - 225+20.3	RT	1	---	1	93	0.06	3	---	---	---	437.5	---	39.4	1
	226+30.0 - 227+07.0	RT	1	---	14	260	0.16	7	1	20.6	62.5	---	---	---	---
	226+49.9 - 227+80.0	LT	1	---	39	180	0.11	5	---	---	---	37.5	---	39.4	1
	307+77.1 - 314+08.3	LT	1	---	59	450	0.28	12	---	---	---	---	525.0	---	2
	307+83.9 - 313+52.6	RT	1	1	27	310	0.19	8	---	---	---	---	462.5	---	2
	389+27.3 - 396+46.0	RT	1	---	33	200	0.13	5	---	---	---	---	612.5	---	2
	412+41.0 - 423+84.7	RT	1	---	4	89	0.06	2	---	---	---	---	1,037.5	---	2
	412+75.8 - 423+07.0	LT	1	---	9	99	0.06	3	---	---	---	---	925.0	---	2
	438+64.7 - 446+20.9	RT	1	---	22	510	0.32	14	---	---	---	---	650.0	---	2
	439+10.4 - 449+54.1	LT	1	---	82	260	0.16	7	---	---	---	---	937.5	---	2
	457+79.2 - 465+60.4	LT	1	---	20	190	0.12	5	---	---	---	---	675.0	---	2
		TOTALS	13	4	412	3,211	2.01	87	1	20.6	62.5	1,787.5	5,825.0	78.8	22

3

MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT)

CATEGORY	PROJECT	618.0100.01 EACH
0010	6050-00-71	1

MOBILIZATION

CATEGORY	PROJECT	619.1000 EACH
0010	6050-00-71	1

MOBILIZATIONS EROSION CONTROL

CATEGORY	PROJECT	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0010	6050-00-71	22	4

SILT FENCE SUMMARY

CATEGORY	STATION - STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
0010	76+14 - 84+33	LT	410	1,400
	87+00 - 94+06	RT	320	1,090
	219+89 - 225+20	RT	260	900
	225+25 - 225+50	LT	50	170
	226+30 - 227+07	RT	120	410
	226+50 - 227+80	LT	280	980
	307+77 - 314+08	LT	440	1,510
	307+84 - 313+53	RT	390	1,340
	389+27 - 396+46	RT	230	800
	412+41 - 423+85	RT	350	1,190
	412+76 - 423+07	LT	280	970
	438+65 - 446+21	RT	290	1,010
	439+10 - 449+54	LT	260	880
	457+79 - 465+60	LT	260	890
	TOTALS		3,940	13,540

EROSION MAT CLASS I TYPE B

CATEGORY	STATION - STATION	LOCATION	628.2004 SY
0010	75+00 - 77+00	LT	190
	83+75 - 85+60	LT	90
	85+75 - 88+00	RT	240
	93+50 - 94+25	RT	52
	219+89 - 221+25	RT	42
	223+60 - 225+40	RT	50
	225+00 - 225+50	LT	140
	226+30 - 229+00	RT	260
	226+50 - 229+00	LT	180
	306+50 - 308+75	LT	300
	306+50 - 308+25	RT	32
	312+75 - 314+25	RT	280
	313+25 - 315+00	LT	150
	388+30 - 390+10	RT	130
	395+75 - 397+50	RT	68
	411+30 - 413+00	RT	33
	411+75 - 413+50	LT	87
	423+00 - 423+25	LT	12
	423+00 - 425+00	RT	56
	428+00 - 439+75	LT	140
	437+75 - 439+50	RT	97
	445+25 - 447+25	RT	420
	448+75 - 450+50	LT	110
	456+75 - 458+50	LT	77
	465+00 - 466+50	LT	110
	UNDISTRIBUTED	---	837
		TOTAL	4,183

EROSION BALES

CATEGORY	STATION	LOCATION	628.1104 EACH
0010	84+18	LT	33
	390+11	RT	9
	413+06	LT	13
	439+66	LT	11
	445+35	RT	15
	450+36	LT	7
	458+29	LT	17
	UNDISTRIBUTED		26
	TOTAL		131

INLET PROTECTION SUMMARY

CATEGORY	STATION - STATION	LOCATION	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
0010	9+12 - 46+50	RT/LT	4	9	7
	147+25 - 227+80	RT/LT	---	30	9
	TOTALS		4	39	16

TURBIDITY BARRIERS

CATEGORY	STATION	LOCATION	628.6005 SY
0010	225+70	RT/LT	140
	226+10	RT/LT	168
		TOTAL	308

WATER FOR BASE COMPACTION

CATEGORY	STATION - STATION	LOCATION	624.0100 WATER MGAL
0010	9+12 - 46+50	RT/LT	6
	46+50 - 147+25	RT/LT	12
	147+25 - 227+80	RT/LT	13
	227+80 - 319+00	RT/LT	10
	319+00 - 478+00	RT/LT	20
	478+00 - 586+36	RT/LT	8
	UNDISTRIBUTED		19
		TOTAL	88

FINISHING ITEMS

CATEGORY	STATION - STATION	LOCATION	* 627.0200 MULCHING SY	625.0500 SALVAGED TOPSOIL SY	* 629.0210 FERTILIZER TYPE B CWT	* 630.0120 SEEDING MIXTURE NO. 20 LB	630.0140 SEEDING MIXTURE NO. 40 LB
0010	29+95 - 42+30	RT/LT	71	71	0.04	---	1
	172+49 - 219+98	RT/LT	220	220	0.14	---	4
	223+60 - 225+65	LT	200	340	0.21	9	---
	UNDISTRIBUTED	---	123	158	0.10	2	1
		TOTALS	614	789	0.49	11	6

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

SEED WATER

CATEGORY	STATION - STATION	LOCATION	630.0500 MGAL
0010	29+95 - 42+30	RT/LT	1.6
	76+14 - 84+33	LT	6.4
	87+00 - 94+06	RT	6.4
	172+49 - 219+98	RT/LT	4.8
	219+89 - 225+20	RT	2.1
	223+60 - 225+65	LT	7.6
	226+30 - 229+00	RT	5.8
	226+50 - 228+80	LT	4.0
	307+77 - 314+08	LT	10.1
	307+84 - 313+53	RT	6.9
	389+27 - 396+46	RT	4.5
	412+41 - 425+00	RT	2.0
	412+76 - 423+07	LT	2.2
	438+65 - 447+25	RT	11.5
	439+10 - 450+50	LT	5.8
	457+79 - 465+60	LT	4.2
	UNDISTRIBUTED	---	8.6
		TOTAL	94.5

CULVERT PIPE CHECKS

CATEGORY	STATION	LOCATION	628.7555 EACH
0010	64+50	RT/LT	3
	398+64	RT/LT	15
		TOTAL	18

MARKERS CULVERT END

CATEGORY	STATION	LOCATION	633.5200 EACH
0010	64+50	RT/LT	2
	398+64	RT/LT	2
		TOTAL	4

3

PERMANENT SIGNING SUMMARY

CATEGORY	STATION	LOCATION	SIGN CODE	SIGN MESSAGE	SIGN SIZE (W X H) IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	* 634.0614 POSTS WOOD 4x6-INCH x 14-FT EACH	REMARKS
0010	225+42	21' LT	W5-52L	BRIDGE HASH MARKS	12 X 36	---	3.00	1	
	315+36	8' RT	R1-1	STOP	36 X 36	7.46	---	---	MOUNT ON TROMBONE ARM
	315+36	8' RT	R1-3P	ALL WAY	24 X 9	1.50	---	---	MOUNT ON TROMBONE ARM
	315+36	22' RT	R1-1	STOP	36 X 36	7.46	---	---	MOUNT ON TYPE 2 POLE
	315+36	22' RT	R1-3P	ALL WAY	24 X 9	1.50	---	---	MOUNT ON TYPE 2 POLE
	315+52	58' LT	R1-1	STOP	36 X 36	7.46	---	---	MOUNT ON TROMBONE ARM
	315+52	58' LT	R1-3P	ALL WAY	24 X 9	1.50	---	---	MOUNT ON TROMBONE ARM
	315+63	53' RT	R1-1	STOP	36 X 36	7.46	---	---	MOUNT ON TROMBONE ARM
	315+63	53' RT	R1-3P	ALL WAY	24 X 9	1.50	---	---	MOUNT ON TROMBONE ARM
	315+74	58' LT	R1-1	STOP	36 X 36	7.46	---	---	MOUNT ON TYPE 2 POLE
	315+74	58' LT	R1-3P	ALL WAY	24 X 9	1.50	---	---	MOUNT ON TYPE 2 POLE
	315+83	58' RT	R1-1	STOP	36 X 36	7.46	---	---	MOUNT ON TYPE 2 POLE
	315+83	58' RT	R1-3P	ALL WAY	24 X 9	1.50	---	---	MOUNT ON TYPE 2 POLE
	316+00	5' LT	R1-1	STOP	36 X 36	7.46	---	---	MOUNT ON TROMBONE ARM
	316+00	5' LT	R1-3P	ALL WAY	24 X 9	1.50	---	---	MOUNT ON TROMBONE ARM
	316+00	21' LT	R1-1	STOP	36 X 36	7.46	---	---	MOUNT ON TYPE 2 POLE
	316+00	21' LT	R1-3P	ALL WAY	24 X 9	1.50	---	---	MOUNT ON TYPE 2 POLE
					TOTALS	71.68	3.00	1	

*ADDITIONAL QUANTITIES LISTED ELSEHWERE

MOVING/REMOVING SIGN ITEMS

CATEGORY	STATION	LOCATION	SIGN CODE	SIGN MESSAGE	* 634.0614 POSTS WOOD 4x6-INCH x 14-FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	REMARKS
0010	39+21	30' LT	R1-1	STOP	1	1	---	
	225+26	25' RT	D1-1	FOX RIVER	1	1	---	
	226+60	22' LT	D1-1	FOX RIVER	1	1	---	
	315+12	19' RT	W12-1D	DOUBLE DOWN ARROW	1	1	---	4-FT MOUNTING HEIGHT
	315+36	20' RT	R1-1	STOP	---	---	1	MOUNTED ON POLE
	315+36	20' RT	R1-3P	ALL WAY	---	---	1	MOUNTED ON POLE
	315+52	58' LT	R1-1	STOP	---	---	1	MOUNTED ON POLE
	315+52	58' LT	R1-3P	ALL WAY	---	---	1	MOUNTED ON POLE
	315+82	58' RT	R1-1	STOP	---	---	1	MOUNTED ON POLE
	315+82	58' RT	R1-3P	ALL WAY	---	---	1	MOUNTED ON POLE
	316+00	58' LT	R1-1	STOP	---	---	1	MOUNTED ON POLE
	316+00	58' LT	R1-3P	ALL WAY	---	---	1	MOUNTED ON POLE
	316+22	19' LT	W12-1D	DOUBLE DOWN ARROW	1	1	---	4-FT MOUNTING HEIGHT
	UNDISTRIBUTED		W14-3	NO PASSING ZONE	10	10	---	
				TOTALS	15	15	8	

*ADDITIONAL QUANTITIES LISTED ELSEHWERE

3

FIELD OFFICE TYPE D

CATEGORY	PROJECT	642.5401 EACH
0010	6050-00-71	1

TRAFFIC CONTROL SUMMARY

CATEGORY	LOCATION	DURATION	643.0300 TRAFFIC CONTROL DRUMS QTY	643.0300 DAY	643.0410 TRAFFIC CONTROL BARRICADES TYPE II		643.0420 TRAFFIC CONTROL BARRICADES TYPE III QTY	643.0420 DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A QTY	643.0705 DAY	643.0900 TRAFFIC CONTROL SIGNS QTY	643.0900 DAY	643.1050 TRAFFIC CONTROL SIGNS PCMS QTY	643.1050 DAYS
0010	ADVANCE WARNING	103	---	---	---	---	---	---	---	---	64	6,592	4	28
	DETOUR	77	---	---	---	---	20	1,540	29	2,233	100	7,700	2	14
	DROP OFF SIGNING	77	---	---	---	---	---	---	---	---	14	1,082	---	---
	GUARDRAIL	14	305	4,270	---	---	---	---	---	---	---	---	---	---
	PEDESTRIAN ROUTING	10	30	300	62	620	82	820	144	1,440	102	1,020	---	---
	UNDISTRIBUTED			229		31		118		184		820	2	14
	TOTALS			4,799		651		2,478		3,857		17,213		56

TRAFFIC CONTROL COVERING SIGNS TYPE II

CATEGORY	LOCATION	NUMBER OF CYCLES	NUMBER OF SIGNS	643.0920 EACH
0010	DETOUR	1	7	7

TRAFFIC CONTROL

CATEGORY	PROJECT	643.5000 EACH
0010	6050-00-71	1

TEMPORARY PEDESTRIAN SUMMARY

CATEGORY	LOCATION	644.1410 TEMPORARY PEDESTRIAN SURFACE ASPHALT SF	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF
0010	UNDISTRUBUTED	660	28	235

MARKING LINE SUMMARY

CATEGORY	STATION - STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH (WHITE) LF	(WHITE SKIP) (3' SEG. 9' GAP) LF	(YELLOW) LF	(YELLOW SKIP) (12.5' SEG. 37.5' GAP) LF	(DOUBLE YELLOW) LF	646.3020 MARKING LINE EPOXY 8-INCH (WHITE) LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH (DOUBLE YELLOW) LF	646.4520 MARKING LINE SAME DAY EPOXY 4-INCH (YELLOW) LF	(YELLOW SKIP) (12.5' SEG. 37.5' GAP) LF	(DOUBLE YELLOW) LF	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE) LF
0010	9+12 - 46+50	RT/LT	4,070	82	---	---	1,720	50	11,050	74	19	7,350	280	700
	46+50 - 147+25	RT/LT	19,400	120	2,810	1,140	4,320	---	20,150	3,710	1,540	9,980	---	---
	147+25 - 227+80	RT/LT	6,920	16	---	---	---	---	28,350	1,640	1,320	5,450	330	1,370
	227+80 - 319+00	RT/LT	18,050	59	1,770	1,720	1,390	460	18,250	2,230	2,050	2,540	145	---
	319+00 - 478+00	RT/LT	30,750	165	5,500	3,130	4,220	---	31,800	6,170	3,300	5,390	---	---
	478+00 - 586+40	RT/LT	20,700	180	4,950	1,940	4,430	---	21,700	4,950	1,940	6,140	63	---
		TOTALS			139,552			510	131,300		65,793		818	2,070

3

MARKING ARROW AND WORD SUMMARY

CATEGORY	STATION	LOCATION	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	REMARKS
0010	229+35	18' RT	1	---	TYPE 2
	230+50	22' LT	---	1	ONLY
	230+85	19' RT	1	---	TYPE 2
		TOTALS	2	1	

TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH

CATEGORY	STATION - STATION	LOCATION	649.0250 (WHITE) LF
0010	9+12 - 46+50	RT/LT	700
	147+25 - 227+80	RT/LT	1,440
		TOTAL	2,140

NOTE: PLACE TEMPORARY MARKING LINE REOMVABLE TAPE 8-INCH ON THE UPPER HMA LAYER AT CROSSWALK LOCATIONS SHOWN ON THE PLAN DETAILS AFTER PAVING OPERATIONS ARE COMPLETED. REMOVE TAPE PRIOR TO PAVEMENT MARKING OPERATIONS. USE AT TEMPORARY CROSSING ON MORTON STREET.

CONSTRUCTION STAKING SUMMARY

CATEGORY	STATION - STATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010	9+12 - 46+50	---	---	---	3,650	---
	46+50 - 147+25	---	---	---	10,100	---
	147+25 - 227+80	44	82	44	7,890	82
	227+80 - 319+00	---	---	---	9,120	---
	319+00 - 478+00	---	---	---	15,900	---
	478+00 - 586+40	---	---	---	10,800	---
		44	82	44	57,460	82

LOCATING NO-PASSING ZONES

CATEGORY	LOCATION	648.0100 MI
0010	6050-00-71	10.9

CONDUIT SUMMARY

CATEGORY	LOCATION	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0615 CONDUIT SPECIAL 3-INCH LF
0010	STH 22 & STH 33 INTERSECTION	50	50	300

ELECTRICAL WIRE SUMMARY

CATEGORY	LOCATION	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG (GREEN) LF	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG (WHITE) LF
0010	STH 22 & STH 33 INTERSECTION	3,000	350	400
	TOTALS	3,000	750	

TROMBONE MOUNTED BEACON MISCELLANEOUS ITEMS SUMMARY

CATEGORY	LOCATION	204.0195 REMOVING CONCRETE BASES EACH	653.0164 PULL BOXES NON-CONDUCTIVE 24X42-INCH EACH	653.0905 REMOVING PULL BOXES EACH	654.0101 CONCRETE BASES TYPE 1 (MOD) EACH	654.0102 CONCRETE BASES TYPE 2 EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0305 POLES TYPE 2 EACH	657.0590 TROMBONE ARMS 20-FT EACH	657.0595 TROMBONE ARMS 25-FT EACH	658.0171 TRAFFIC SIGNAL FACE 1S 12-INCH EACH	SPV.0105.01 REMOVE TRAFFIC SIGNALS, STH 22 AND STH 33 LS
0010	STH 22 & STH 33 INTERSECTION	5	4	1	1	4	4	4	2	2	4	1

NOTE: ITEM 657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE IS STATE FURNISHED.

SAWING ASPHALT AND SAWING CONCRETE SUMMARY

CATEGORY	STATION - STATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
0010	9+12 - 46+50	430	1,020
	147+25 - 316+50	1,550	400
	UNDISTRIBUTED	198	142
	TOTALS	2,178	1,562

ABANDONING CATTLE PASS SUMMARY

CATEGORY	STATION	BORROW (FOR INFORMAITON ONLY) CY	209.0200.S BACKFILL CONTROLLED LOW STRENGTH CY	520.8700 CLEANING CULVERT PIPES EACH	625.0100 TOPSOIL SY	627.0200 * MULCHING SY	629.0210 * FERTILIZER TYPE B CWT	630.0120 * SEEDING MIXTURE NO. 20 LB	SPV.0060.02 ABANDONING CATTLE PASS EACH
0010	64+50	78	150	1	50	50	0.03	1.3	1

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

SECTION CORNER SUMMARY

CATEGORY	STATION	LOCATION	SPV.0060.04 VERIFY LANDMARK REFERENCE MONUMENTS EACH	SPV.0060.05 LANDMARK REFERENCE MONUMENTS SPECIAL EACH
0010	77+60	18' RT	1	1
	104+92	6' RT	1	1
	131+41	0' RT	1	1
	265+80	23' LT	1	1
	292+12	15' RT	1	1
	318+42	4' RT	1	1
	344+78	1' RT	1	1
	371+15	1' RT	1	1
	397+23	7' LT	1	1
	TOTALS		9	9

SMOOTH LINED CMP CULVERT LINER, STA. 398+64, 66-INCH DIAMETER

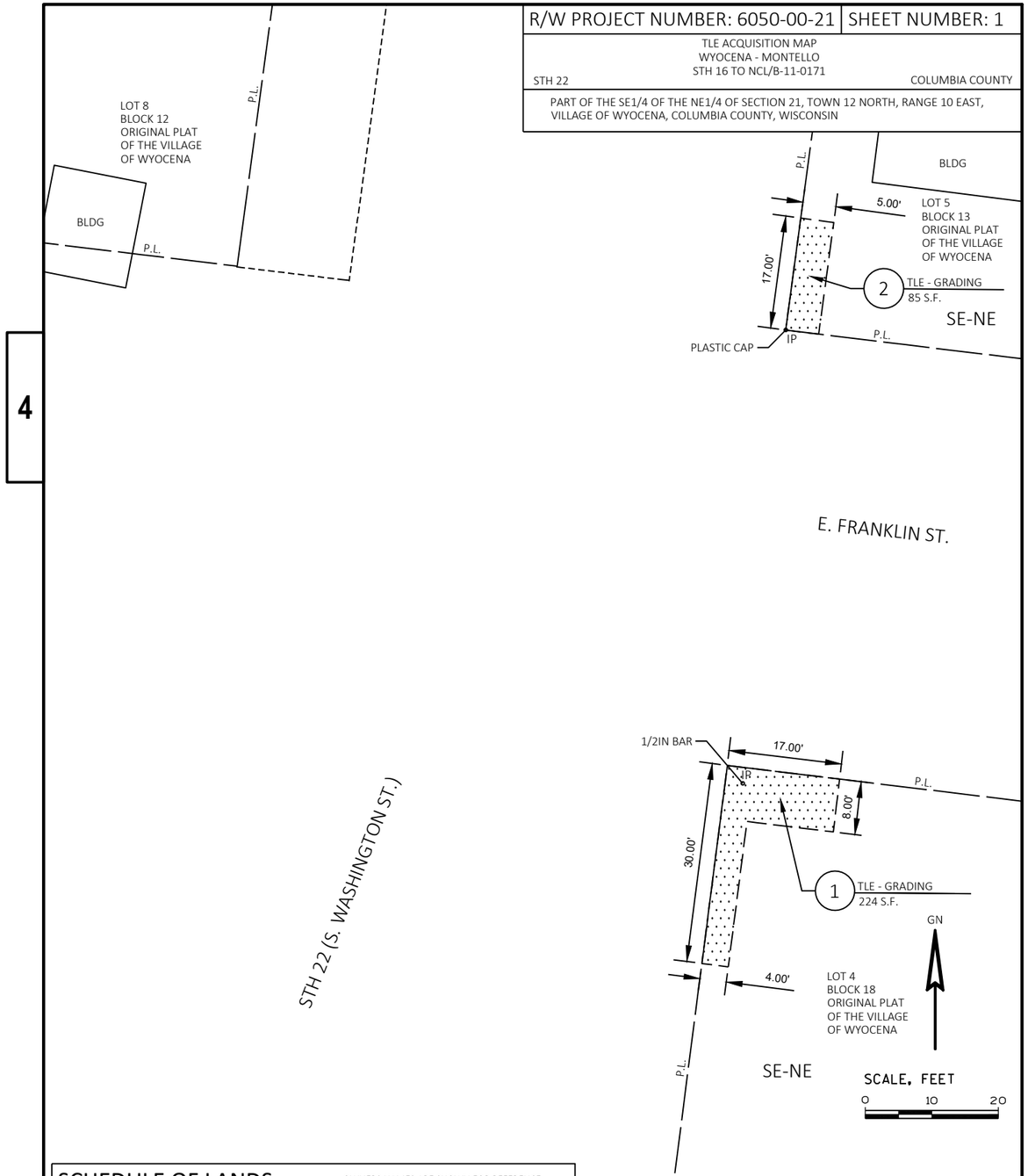
CATEGORY	STATION	SPV.0090.02 LF
0010	398+64	118

R/W PROJECT NUMBER: 6050-00-21	SHEET NUMBER: 1

TLE ACQUISITION MAP
WYOCENA - MONTELLO
STH 16 TO NCL/B-11-0171

STH 22 — COLUMBIA COUNTY

PART OF THE SE1/4 OF THE NE1/4 OF SECTION 21, TOWN 12 NORTH, RANGE 10 EAST, VILLAGE OF WYOCENA, COLUMBIA COUNTY, WISCONSIN



SCHEDULE OF LANDS & INTERESTS 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	OWNERS	INTEREST REQUIRED	TLE S.F.
1	SWEENEY INVESTMENTS IRA TRUST FUND	TLE	224
2	PHILIP C. JOHNSON AND JOANN S. JOHNSON JOINT REVOCABLE TRUST DATED FEBRUARY 26, 2007	TLE	85

THIS MAP PREPARED BY STRAND ASSOCIATES INC., FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

THIS MAP IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHWEST REGION.

SIGNATURE: Cory Schlagel DATE: 5/1/2018

PRINT NAME: CORY SCHLAGEL

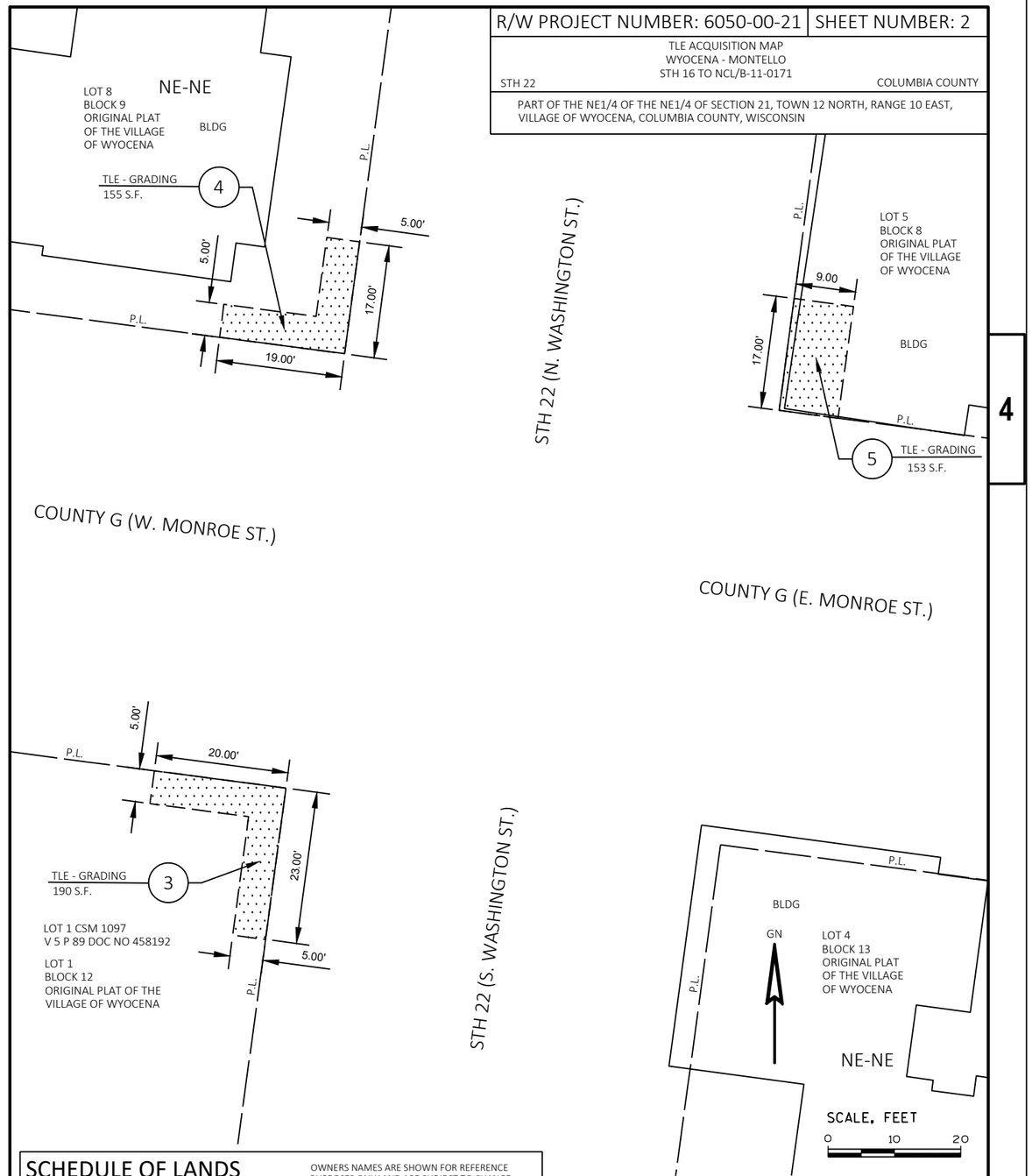
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R/W PROJECT NUMBER: 6050-00-21	SHEET NUMBER: 2

TLE ACQUISITION MAP
WYOCENA - MONTELLO
STH 16 TO NCL/B-11-0171

STH 22 — COLUMBIA COUNTY

PART OF THE NE1/4 OF THE NE1/4 OF SECTION 21, TOWN 12 NORTH, RANGE 10 EAST, VILLAGE OF WYOCENA, COLUMBIA COUNTY, WISCONSIN



SCHEDULE OF LANDS & INTERESTS 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	OWNERS	INTEREST REQUIRED	TLE S.F.
3	UNITED COOPERATIVE	TLE	190
4	TOWN OF WYOCENA	TLE	155
5	WILLIAM C. HASS	TLE	153

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SIGNATURE: Cory Schlagel DATE: 5/1/2018

PRINT NAME: CORY SCHLAGEL

FILE NAME : TLE SHEETS.DWG PLOT DATE : 4/9/2018 10:21 AM R/W PROJECT: 6050-00-21-2

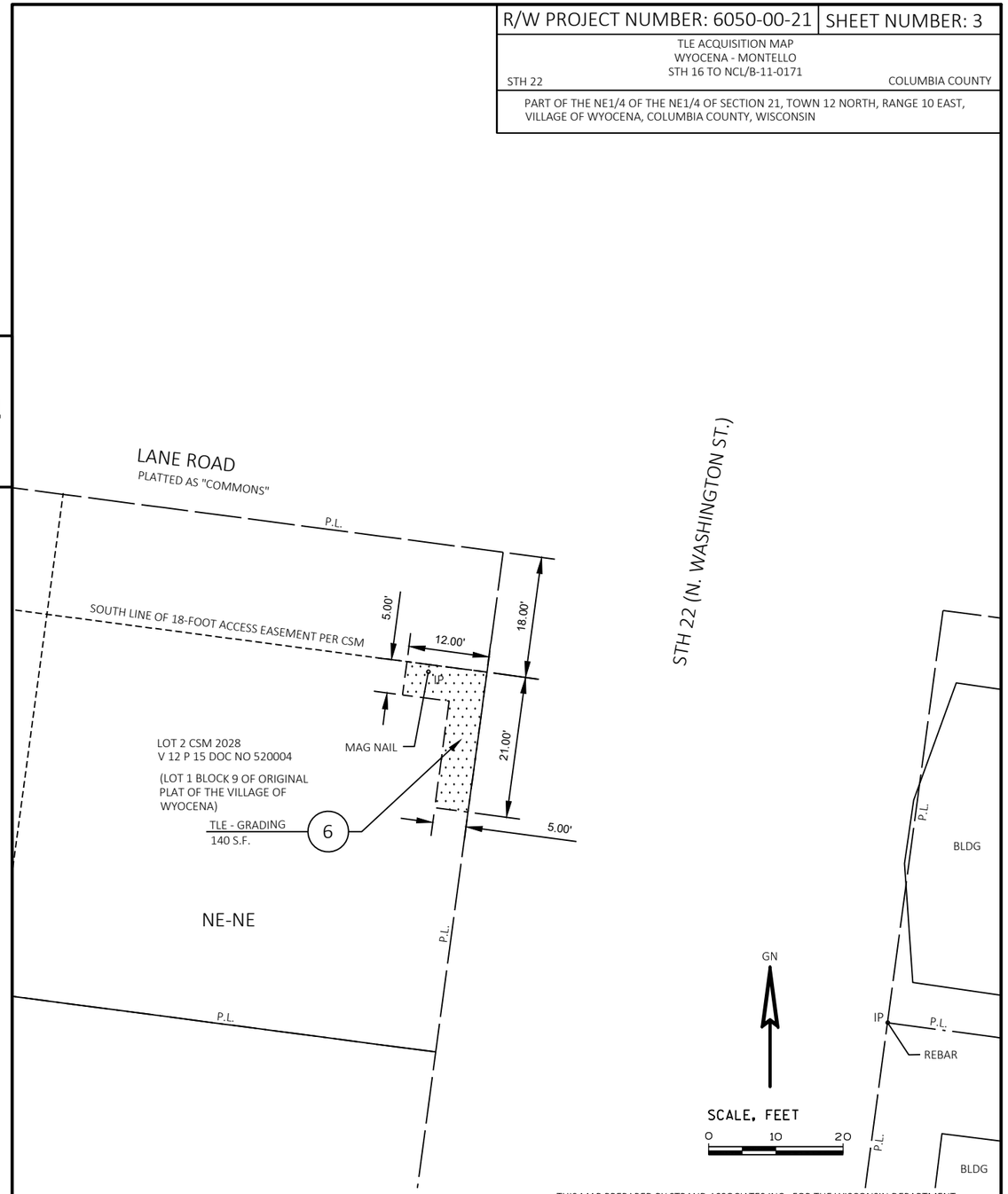
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TLE ACQUISITION MAP
WYOCENA - MONTELLO
STH 16 TO NCL/B-11-0171

STH 22 — COLUMBIA COUNTY

PART OF THE NE1/4 OF THE NE1/4 OF SECTION 21, TOWN 12 NORTH, RANGE 10 EAST, VILLAGE OF WYOCENA, COLUMBIA COUNTY, WISCONSIN

4



SCHEDULE OF LANDS & INTERESTS 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	OWNERS	INTEREST REQUIRED	TLE S.F.
6	GRANDE CHEESE COMPANY	TLE	140

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PRINT NAME: CORY SCHLAGEL

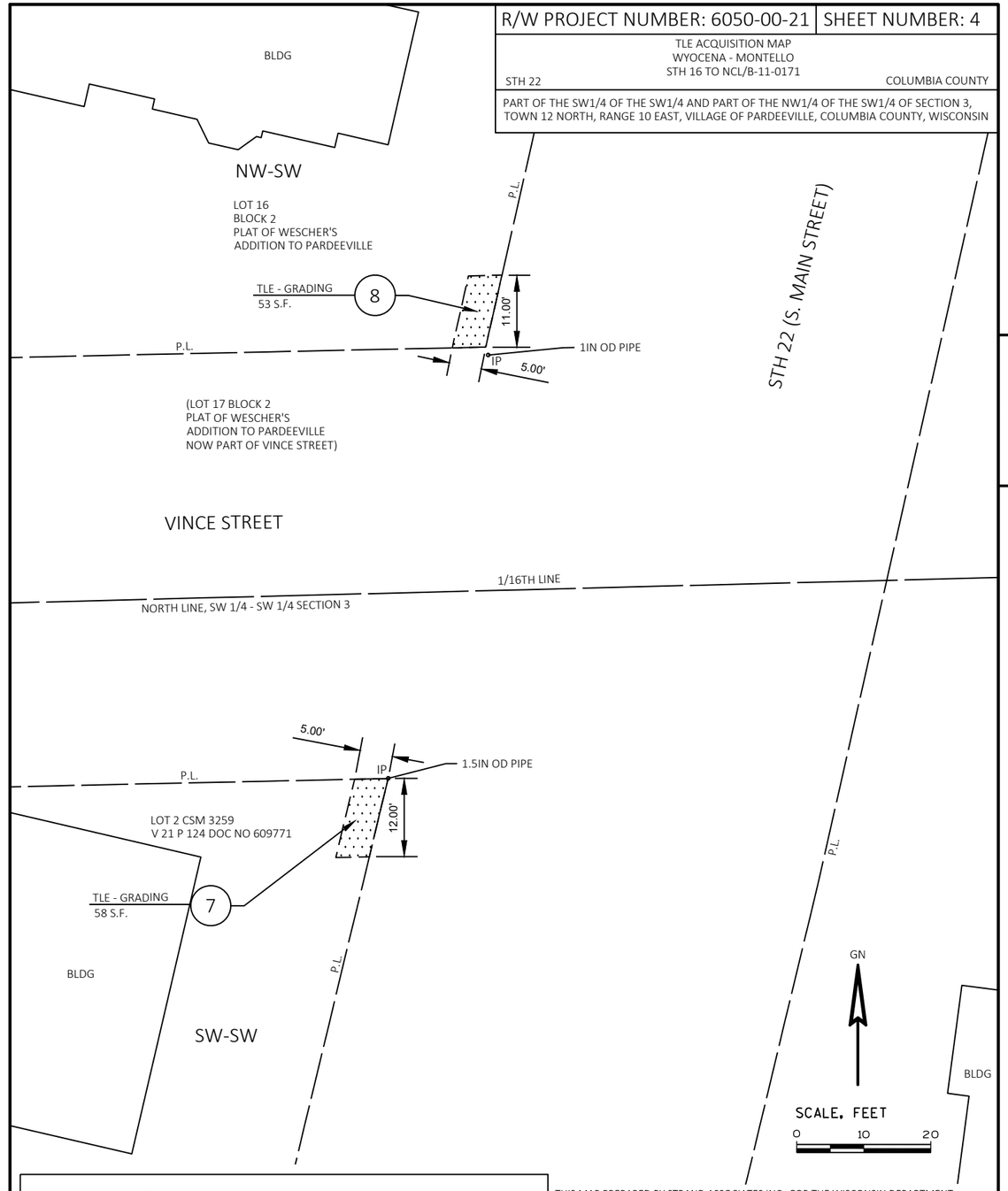
R/W PROJECT NUMBER: 6050-00-21	SHEET NUMBER: 4

TLE ACQUISITION MAP
WYOCENA - MONTELLO
STH 16 TO NCL/B-11-0171

STH 22 — COLUMBIA COUNTY

PART OF THE SW1/4 OF THE SW1/4 AND PART OF THE NW1/4 OF THE SW1/4 OF SECTION 3, TOWN 12 NORTH, RANGE 10 EAST, VILLAGE OF PARDEEVILLE, COLUMBIA COUNTY, WISCONSIN

4



SCHEDULE OF LANDS & INTERESTS 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	OWNERS	INTEREST REQUIRED	TLE S.F.
7	ALDER HOLDINGS, LLC	TLE	58
8	STEVEN R BALSIGER	TLE	53

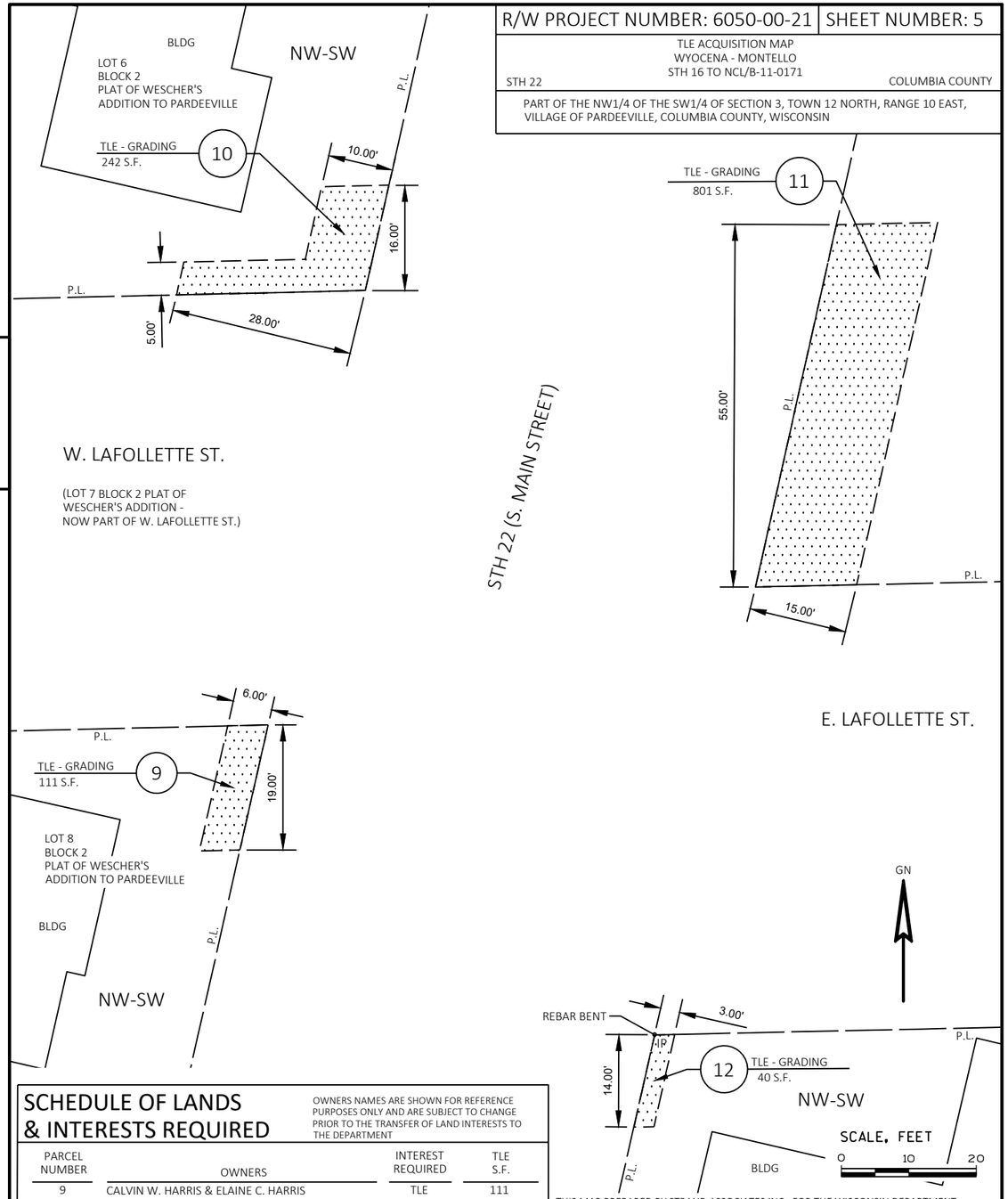
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SIGNATURE: Cory Schlagel DATE: 5/1/2018

PRINT NAME: CORY SCHLAGEL

R/W PROJECT NUMBER: 6050-00-21	SHEET NUMBER: 5
TLE ACQUISITION MAP WYOCENA - MONTELLO STH 16 TO NCL/B-11-0171	
STH 22	COLUMBIA COUNTY
PART OF THE NW1/4 OF THE SW1/4 OF SECTION 3, TOWN 12 NORTH, RANGE 10 EAST, VILLAGE OF PARDEEVILLE, COLUMBIA COUNTY, WISCONSIN	



SCHEDULE OF LANDS & INTERESTS 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	OWNERS	INTEREST REQUIRED	TLE S.F.
9	CALVIN W. HARRIS & ELAINE C. HARRIS	TLE	111
10	ANNIE J. KLAUER & ARTHUR A. KLAUER	TLE	242
11	SEVERYN DYKSTRA & KATHLEEN DYKSTRA, HUSBAND AND WIFE AND INDIVIDUALLY, VENDOR, AND RONALD J. MUSSEHL AND SHELLEY A. MUSSEHL, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY, AS VENDEE UNDER LAND CONTRACT RECORDED SEPTEMBER 4, 2002 AS DOC. NO. 664294	TLE	801
12	ERNEST R. LILLY	TLE	40

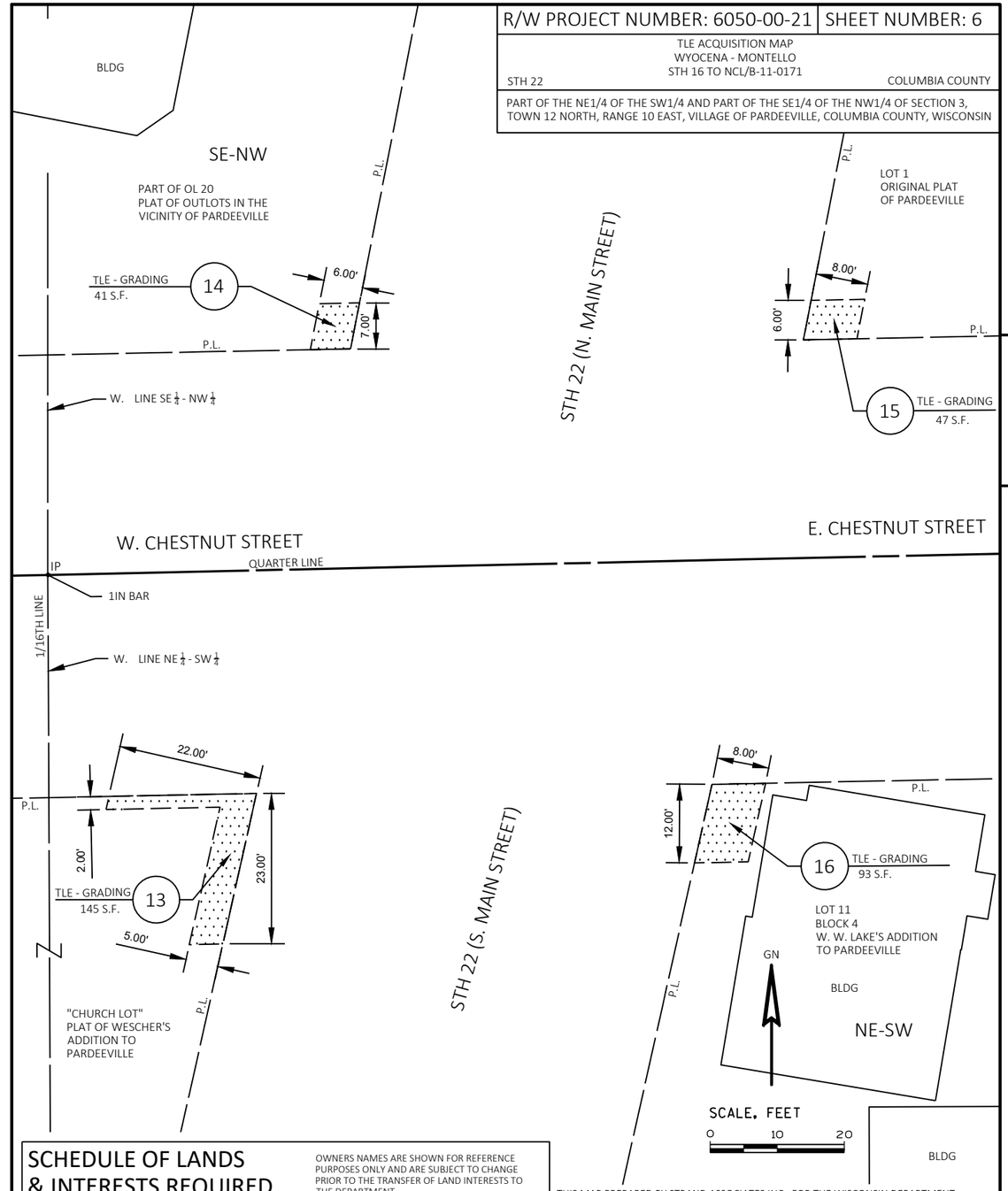
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THIS MAP IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHWEST REGION.

SIGNATURE: Cory Schlagel DATE: 5/1/2018

PRINT NAME: CORY SCHLAGEL

R/W PROJECT NUMBER: 6050-00-21	SHEET NUMBER: 6
TLE ACQUISITION MAP WYOCENA - MONTELLO STH 16 TO NCL/B-11-0171	
STH 22	COLUMBIA COUNTY
PART OF THE NE1/4 OF THE SW1/4 AND PART OF THE SE1/4 OF THE NW1/4 OF SECTION 3, TOWN 12 NORTH, RANGE 10 EAST, VILLAGE OF PARDEEVILLE, COLUMBIA COUNTY, WISCONSIN	



SCHEDULE OF LANDS & INTERESTS 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	OWNERS	INTEREST REQUIRED	TLE S.F.
13	THE FIRST PRESBYTERIAN CHURCH OF PARDEEVILLE	TLE	145
14	BMC HEAVY TRUCK LLC	TLE	41
15	LORI ZIMMERMAN & MICHAEL M. ZIMMERMAN	TLE	47
16	JAMES C. HILL & JUDITH L. HILL	TLE	93

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SIGNATURE: Cory Schlagel DATE: 5/1/2018

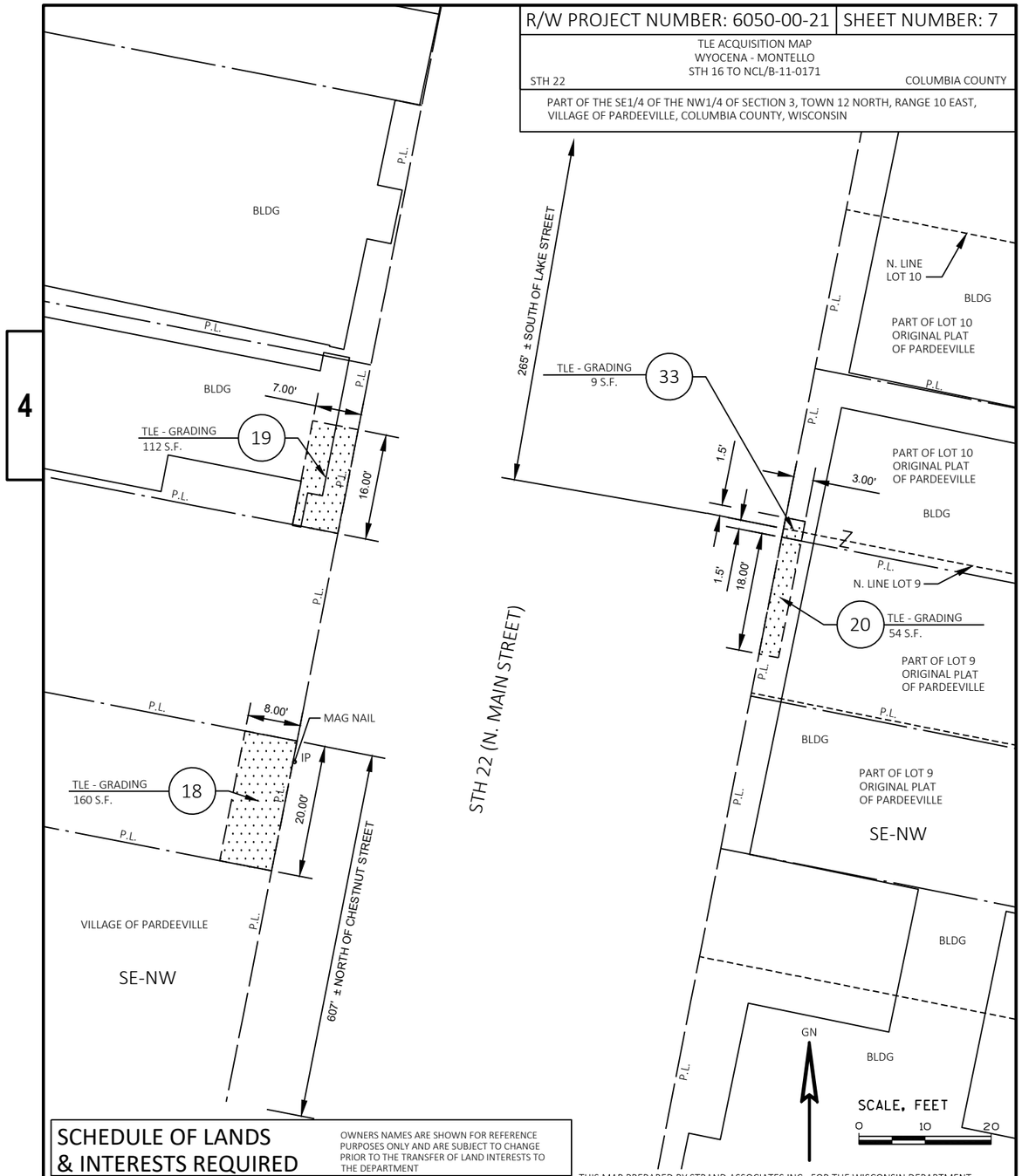
PRINT NAME: CORY SCHLAGEL

R/W PROJECT NUMBER: 6050-00-21	SHEET NUMBER: 7

TLE ACQUISITION MAP
WYOCENA - MONTELLO
STH 16 TO NCL/B-11-0171

STH 22 — COLUMBIA COUNTY

PART OF THE SE1/4 OF THE NW1/4 OF SECTION 3, TOWN 12 NORTH, RANGE 10 EAST, VILLAGE OF PARDEEVILLE, COLUMBIA COUNTY, WISCONSIN



SCHEDULE OF LANDS & INTERESTS 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	OWNERS	INTEREST REQUIRED	TLE S.F.
18	ANGIE WILLIAMS COX LIBRARY ENDOWMENT BOARD	TLE	160
19	SCOTT & RACHELLE SMITH JOINT REVOCABLE TRUST DATED APRIL 12, 2005	TLE	112
20	MARJORIE A. VAN SWOL & MORRIS H. VAN SWOL JR.	TLE	54
33	STEVEN J. THOMPSON, D.B.A. THE VILLAGE PRINTER	TLE	9

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THIS MAP IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
SOUTHWEST REGION.

SIGNATURE: Cory Schlagel DATE: 5/1/2018

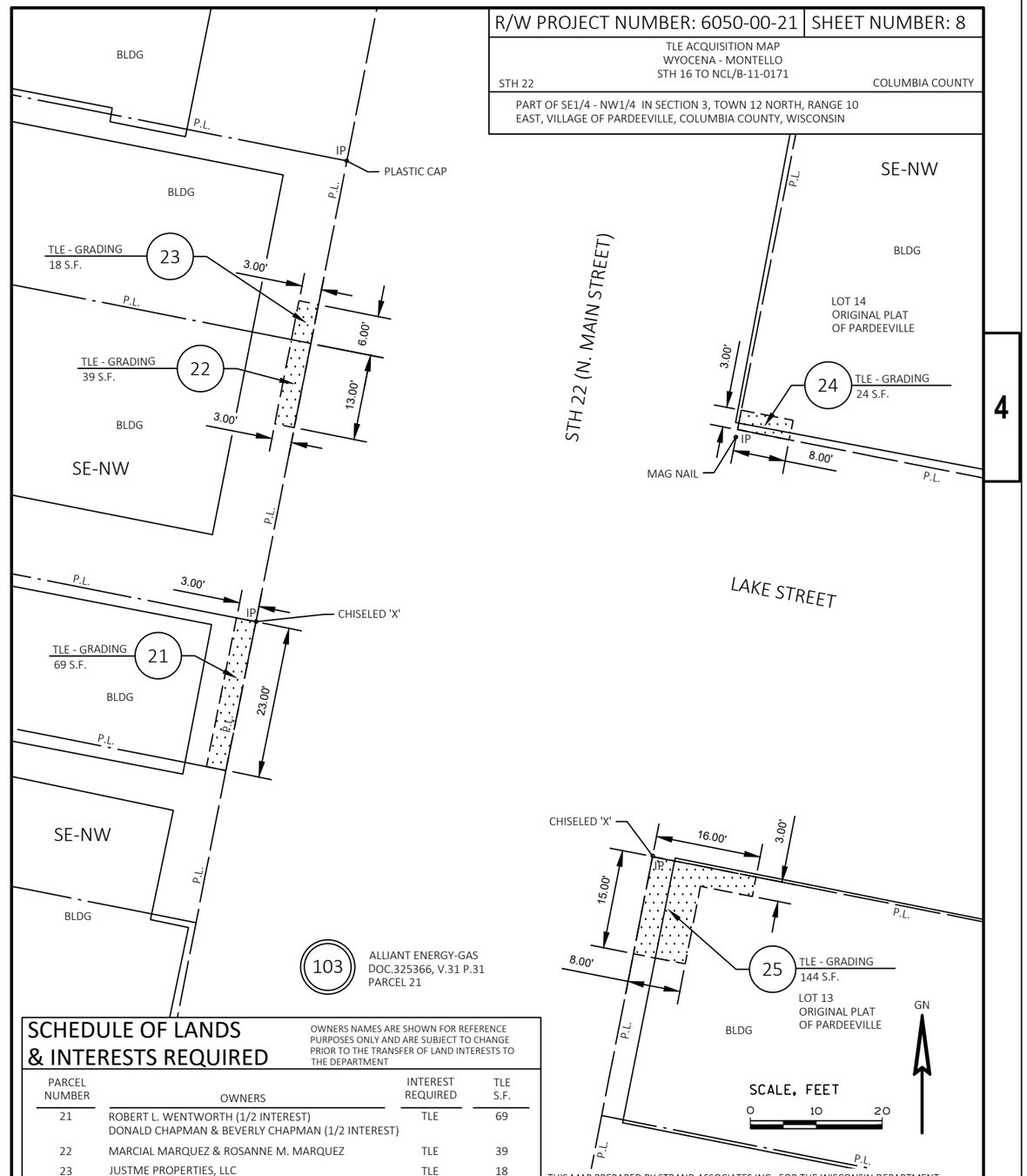
PRINT NAME: CORY SCHLAGEL

R/W PROJECT NUMBER: 6050-00-21	SHEET NUMBER: 8

TLE ACQUISITION MAP
WYOCENA - MONTELLO
STH 16 TO NCL/B-11-0171

STH 22 — COLUMBIA COUNTY

PART OF SE1/4 - NW1/4 IN SECTION 3, TOWN 12 NORTH, RANGE 10 EAST, VILLAGE OF PARDEEVILLE, COLUMBIA COUNTY, WISCONSIN



SCHEDULE OF LANDS & INTERESTS 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	OWNERS	INTEREST REQUIRED	TLE S.F.
21	ROBERT L. WENTWORTH (1/2 INTEREST) DONALD CHAPMAN & BEVERLY CHAPMAN (1/2 INTEREST)	TLE	69
22	MARCIAL MARQUEZ & ROSANNE M. MARQUEZ	TLE	39
23	JUSTME PROPERTIES, LLC	TLE	18
24	LOIS A. WOODMAN MARK E. WERNER	TLE	24
25	JOSEPH T. LUCAFO	TLE	144

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
103	ALLIANT ENERGY-GAS	TEMPORARY CONSTRUCTION EASEMENT

THIS MAP PREPARED BY STRAND ASSOCIATES INC., FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

THIS MAP IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
SOUTHWEST REGION.

SIGNATURE: Cory Schlagel DATE: 5/1/2018

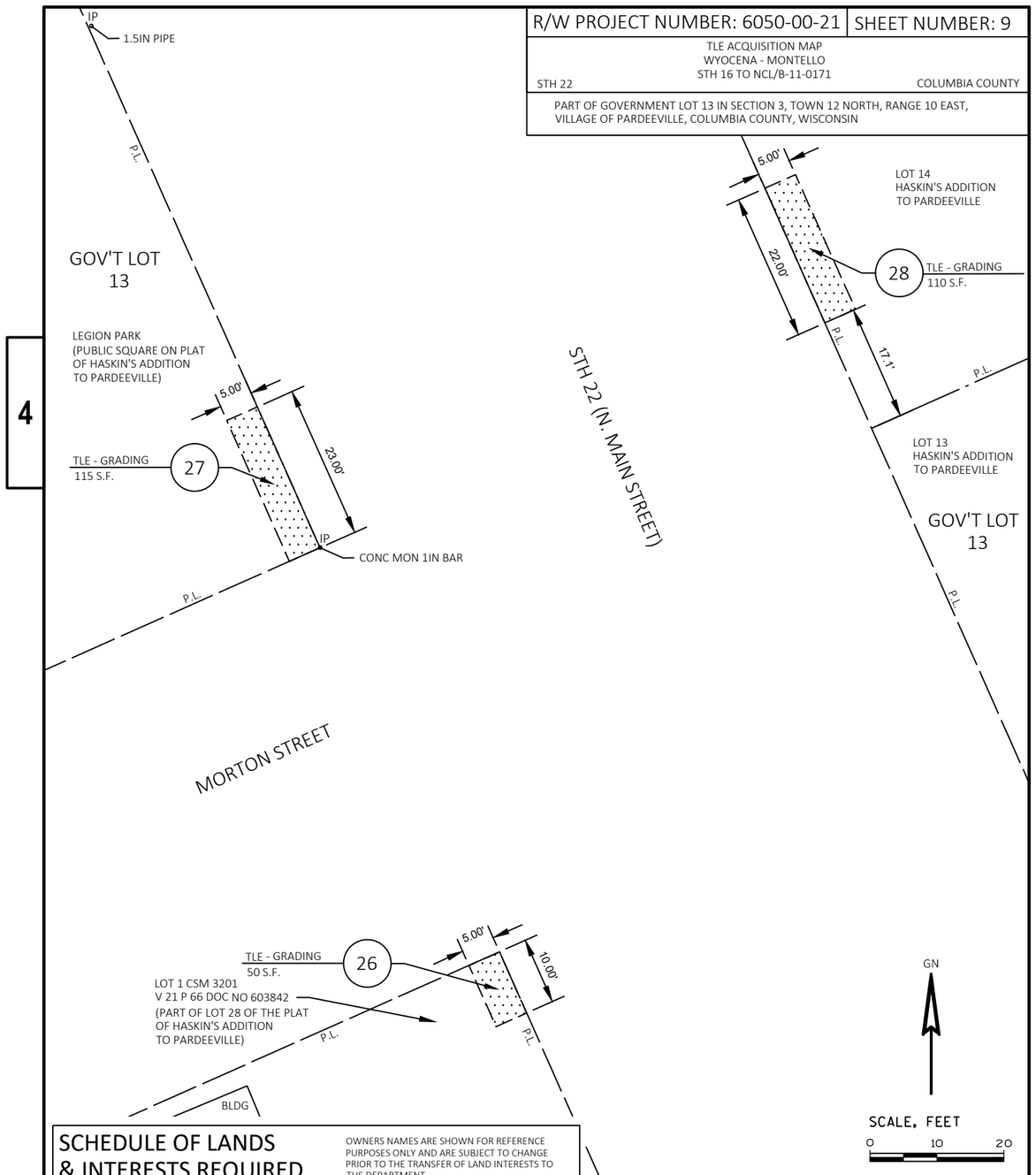
PRINT NAME: CORY SCHLAGEL

R/W PROJECT NUMBER: 6050-00-21	SHEET NUMBER: 9

TLE ACQUISITION MAP
WYOCENA - MONTELLO
STH 16 TO NCL/B-11-0171

STH 22 — COLUMBIA COUNTY

PART OF GOVERNMENT LOT 13 IN SECTION 3, TOWN 12 NORTH, RANGE 10 EAST,
VILLAGE OF PARDEEVILLE, COLUMBIA COUNTY, WISCONSIN



SCHEDULE OF LANDS & INTERESTS 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	OWNERS	INTEREST REQUIRED	TLE S.F.
26	MERRY L. VESELY	TLE	50
27	VILLAGE OF PARDEEVILLE (LEGION PARK)	TLE	115
28	DOUGLAS ALLISON BROCKWAY AND MARY E. BROCKWAY, AS TRUSTEES UNDER THE TERMS AND PROVISIONS OF A CERTAIN TRUST AGREEMENT DATED APRIL 20, 2016 AND DESIGNATED AS THE BROCKWAY LAND TRUST	TLE	110

THIS MAP PREPARED BY STRAND ASSOCIATES INC., FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

THIS MAP IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
SOUTHWEST REGION.

SIGNATURE: Cory Schlagel DATE: 5/1/2018

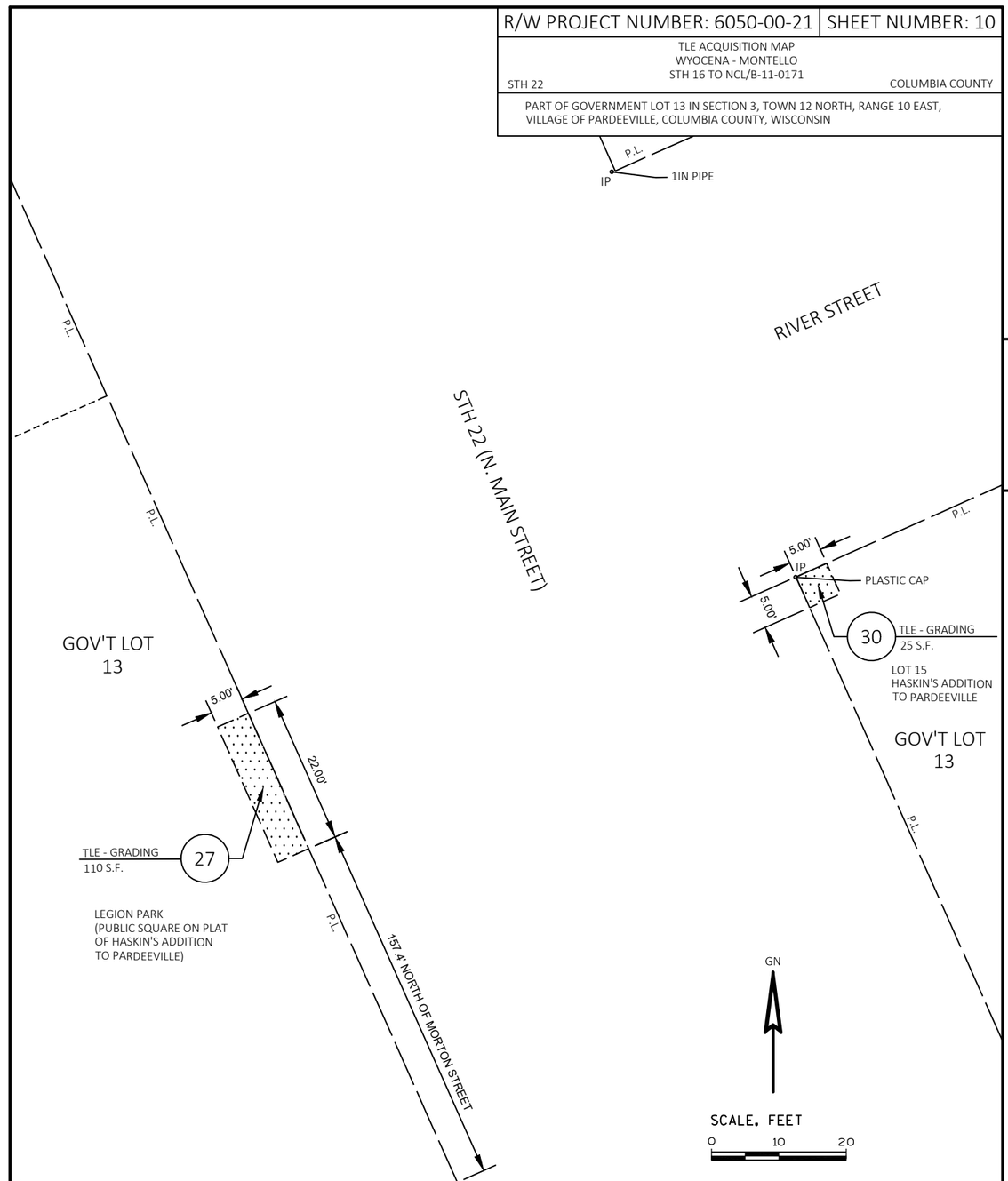
PRINT NAME: CORY SCHLAGEL

R/W PROJECT NUMBER: 6050-00-21	SHEET NUMBER: 10

TLE ACQUISITION MAP
WYOCENA - MONTELLO
STH 16 TO NCL/B-11-0171

STH 22 — COLUMBIA COUNTY

PART OF GOVERNMENT LOT 13 IN SECTION 3, TOWN 12 NORTH, RANGE 10 EAST,
VILLAGE OF PARDEEVILLE, COLUMBIA COUNTY, WISCONSIN



SCHEDULE OF LANDS & INTERESTS 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	OWNERS	INTEREST REQUIRED	TLE S.F.
27	VILLAGE OF PARDEEVILLE (LEGION PARK)	TLE	110
30	THOMAS HEAPS	TLE	25

THIS MAP PREPARED BY STRAND ASSOCIATES INC., FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

THIS MAP IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
SOUTHWEST REGION.

SIGNATURE: Cory Schlagel DATE: 5/1/2018

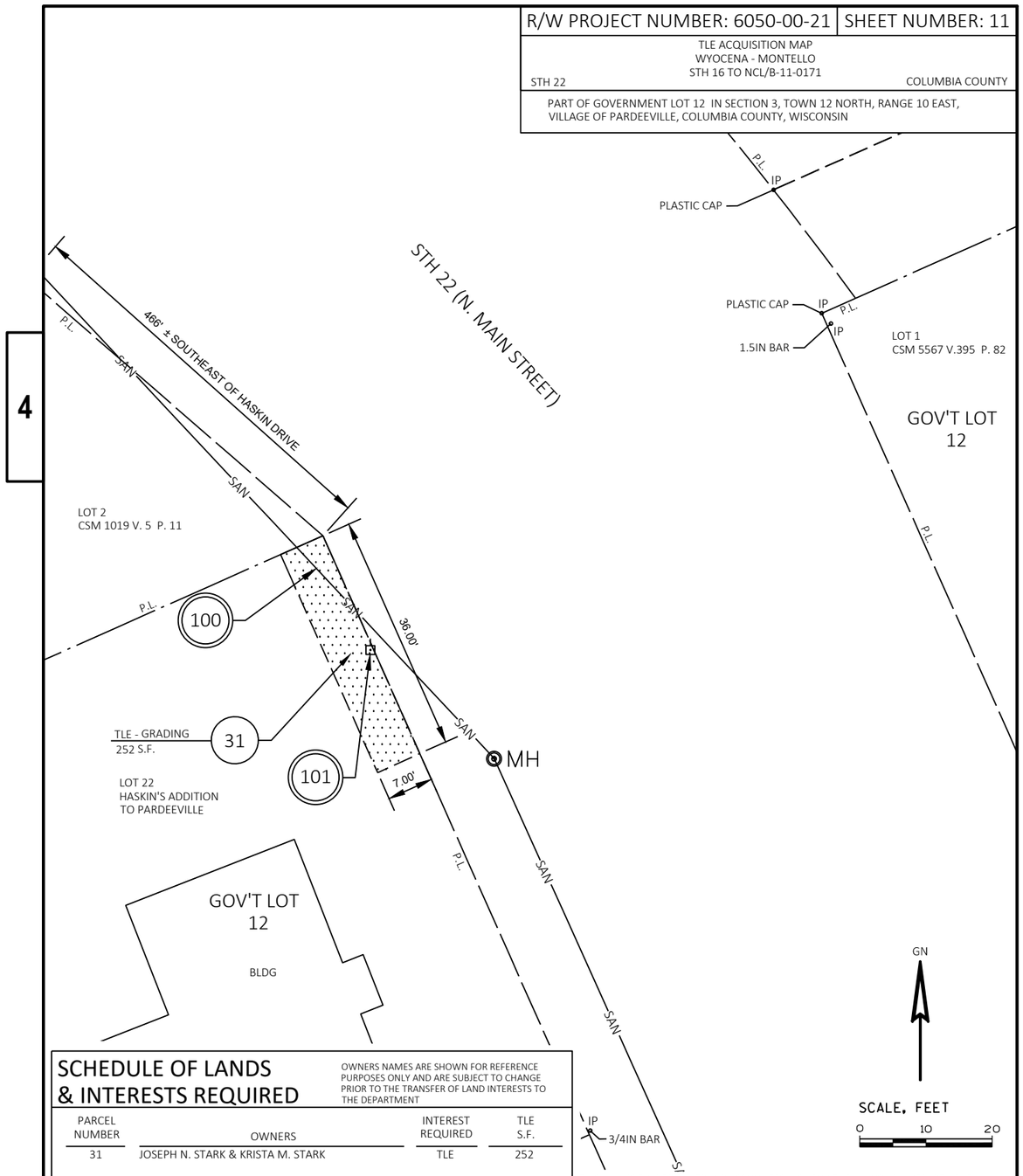
PRINT NAME: CORY SCHLAGEL

R/W PROJECT NUMBER: 6050-00-21	SHEET NUMBER: 11

TLE ACQUISITION MAP
WYOCENA - MONTELLO
STH 16 TO NCL/B-11-0171

STH 22 — COLUMBIA COUNTY

PART OF GOVERNMENT LOT 12 IN SECTION 3, TOWN 12 NORTH, RANGE 10 EAST,
VILLAGE OF PARDEEVILLE, COLUMBIA COUNTY, WISCONSIN



SCHEDULE OF LANDS & INTERESTS 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	OWNERS	INTEREST REQUIRED	TLE S.F.
31	JOSEPH N. STARK & KRISTA M. STARK	TLE	252

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
100	PARK LAKE SANITARY DISTRICT NO.1 (SANITARY SEWER)	TEMPORARY CONSTRUCTION EASEMENT
101	VILLAGE OF PARDEEVILLE (ELECTRIC)	TEMPORARY CONSTRUCTION EASEMENT

THIS MAP PREPARED BY STRAND ASSOCIATES INC., FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

THIS MAP IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHWEST REGION.

SIGNATURE: Cory Schlagel DATE: 5/1/2018

PRINT NAME: CORY SCHLAGEL

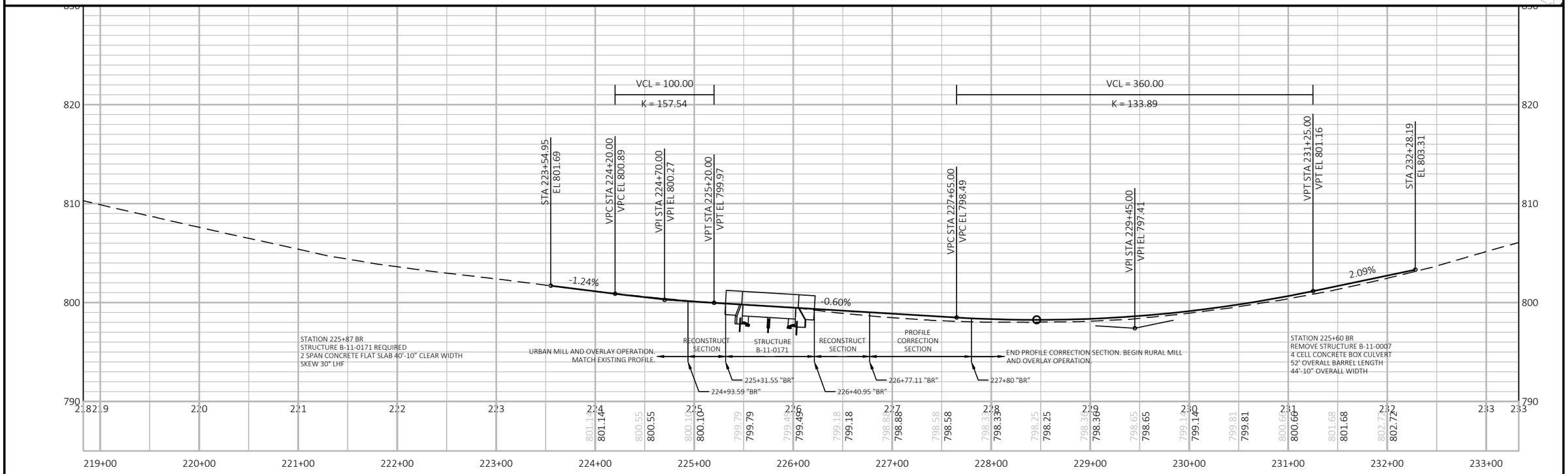
FILE NAME : TLE SHEETS.DWG PLOT DATE : 4/9/2018 10:41 AM R/W PROJECT: 6050-00-21-11

CURVE BR-1
PI STA = 219+78.01"BR"
Y = 395825.168
X = 579291.133
DELTA = 24°25'47"
D = 13°01'18"
T = 95.25'
L = 187.61'
R = 440.00'
PC STA = 218+82.76"BR"
Y = 395738.217
X = 579330.021
PT STA = 220+70.37"BR"
Y = 395888.251
X = 579219.766
BK = N24°05'46.2"W
AH = N48°31'32.9"W
S.E. = EXISTING

HASKIN DR
BP: 8+56.51
PC: 9+17.35
9+00
9+17.35
B-11-0171
PCC: 226+69.86"BR"
TRANSITION AREA FOR SUPER ELEVATION
SEE SUPER ELEVATION TABLES
PAVE 0" - 4" HMA 4LT 58-28S WEDGE LAYER FROM
226+77.11"BR" - 227+80"BR" BETWEEN 4' LT AND 24' RT
BP: 10+00.00
WALLS
PC: 218+75.21
PT: 220+80.40
BP: 218+82.76"BR"
PT: 220+70.37"BR"
FOOTBRIDGE
224+64.5 "BR"
223+60 "BR"
PI: 9+60.17
224+00
224+00"BR"
222+00
222+00"BR"
220+00
220+00"BR"
INL
EP: 10+00.00
224+93.59 "BR"
225+31.55 "BR"
PC: 225+12.31"BR"
PC: 225+36.18
226+00
226+00"BR"
226+40.95 "BR"
226+77.11 "BR"
10+72.32
11+00
EP: 11+19.09
227+80 "BR"
228+00
228+00"BR"
230+00
230+00"BR"
232+00
232+00"BR"
234+00
234+00"BR"
PONDVIEW DR

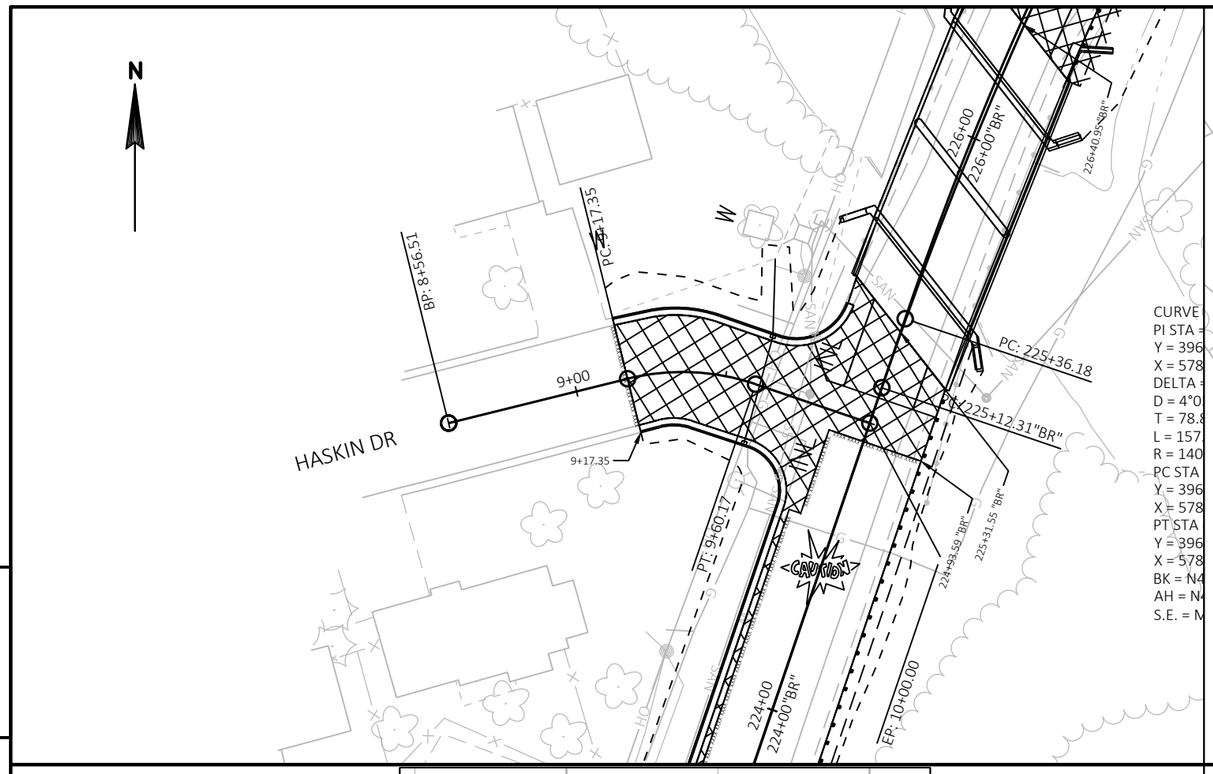
CURVE BR-2
PI STA = 225+91.17"BR"
Y = 396233.168
X = 578829.554
DELTA = 6°26'51"
D = 4°05'33"
T = 78.86'
L = 157.54'
R = 1400.00'
PC STA = 225+12.31"BR"
Y = 396180.943
X = 578888.637
PT STA = 226+69.86"BR"
Y = 396291.697
X = 578776.709
BK = N48°31'32.9"W
AH = N42°04'41.5"W
S.E. = MODIFIED (SEE SUPERELEVATION TABLES)

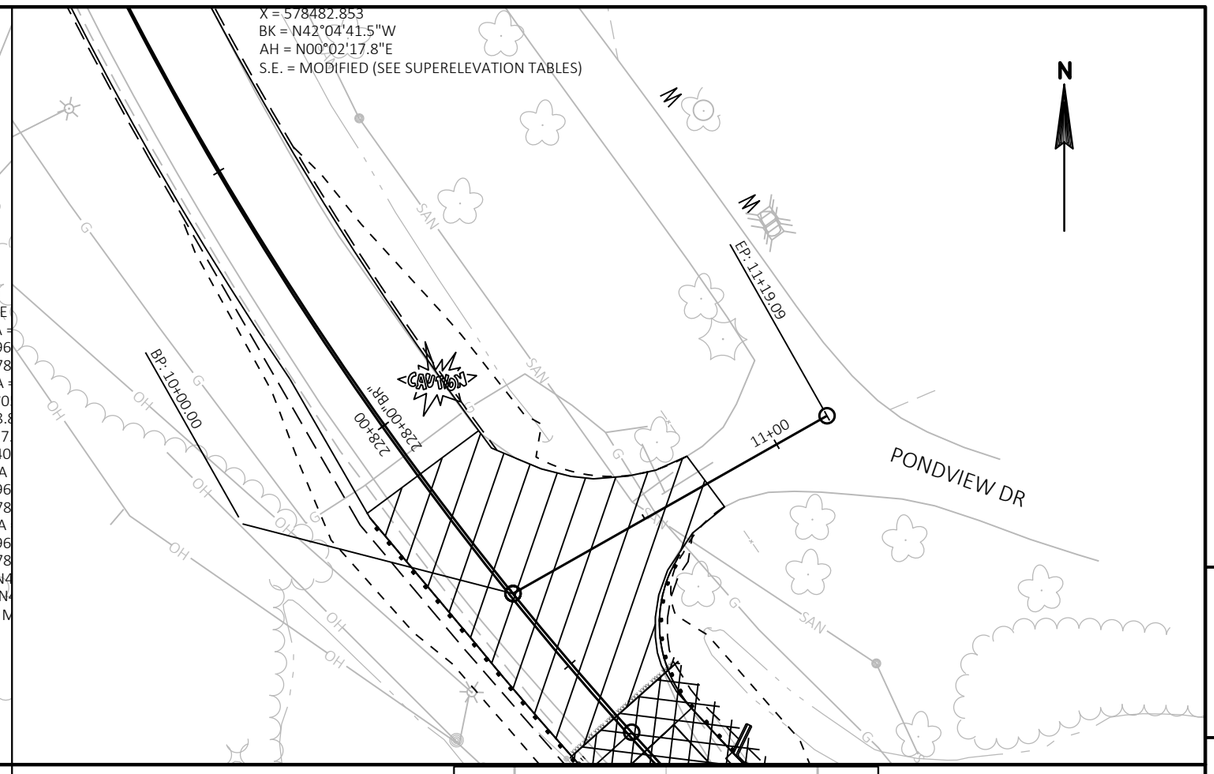
CURVE BR-3
PI STA = 231+08.79"BR"
Y = 396617.488
X = 578482.560
DELTA = 42°06'59"
D = 5°01'33"
T = 438.94'
L = 837.98'
R = 1140.00'
PC STA = 226+69.86"BR"
Y = 396291.697
X = 578776.709
PT STA = 235+07.84"BR"
Y = 397056.423
X = 578482.853
BK = N42°04'41.5"W
AH = N00°02'17.8"E
S.E. = MODIFIED (SEE SUPERELEVATION TABLES)

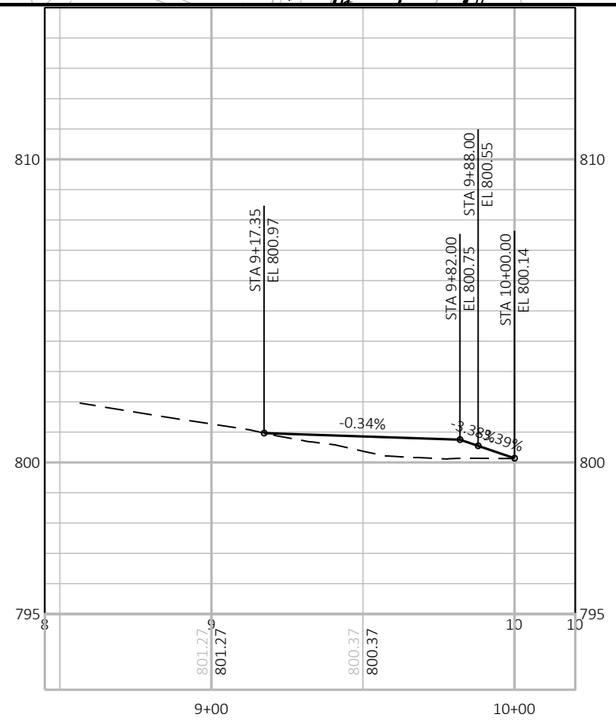


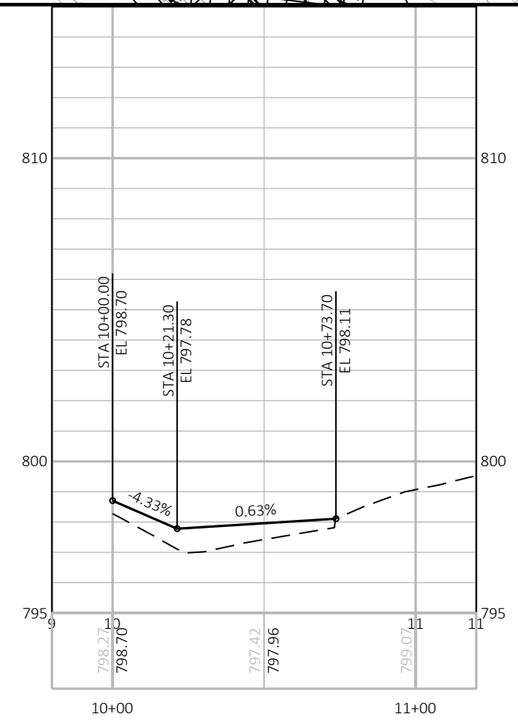
PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN AND PROFILE: MAINLINE	SHEET 148	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\050201_PP.DWG
LAYOUT NAME - 050201
PLOT DATE : 10/21/2019 3:40 PM
PLOT BY : NELSON, JOSHUA B
PLOT NAME :
PLOT SCALE : 1 IN:100 FT







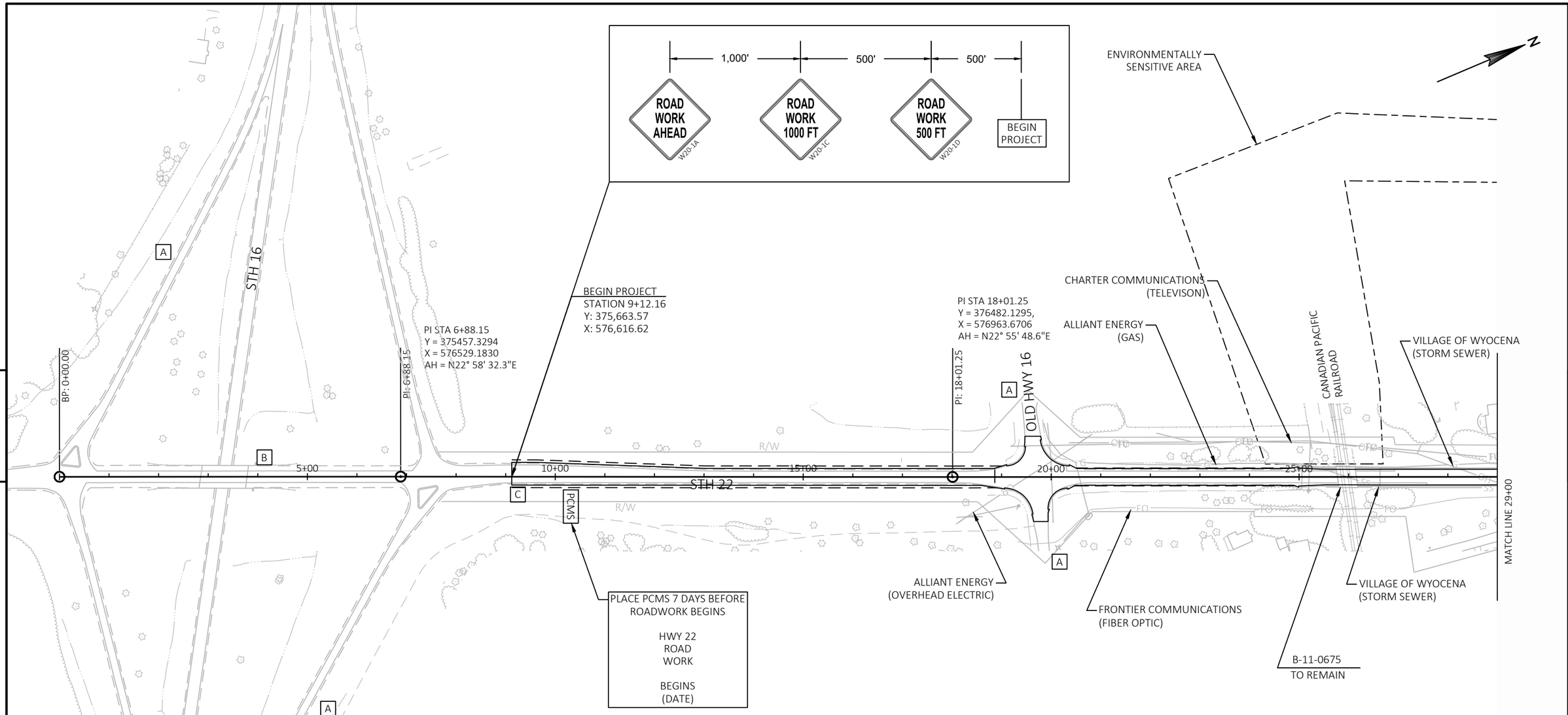


PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN AND PROFILE: HASKIN DR & PONDVIEW RD	SHEET 149	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\050201_PP.DWG
LAYOUT NAME - 050301

PLOT DATE : 7/31/2019 10:23 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44



A — ROAD WORK AHEAD (W20-1A)

B — END ROAD WORK (G20-2A, 48"X24")

C — ROAD WORK NEXT 11 MILES (G20-1, 60"X24")

D — NO PASSING ZONE

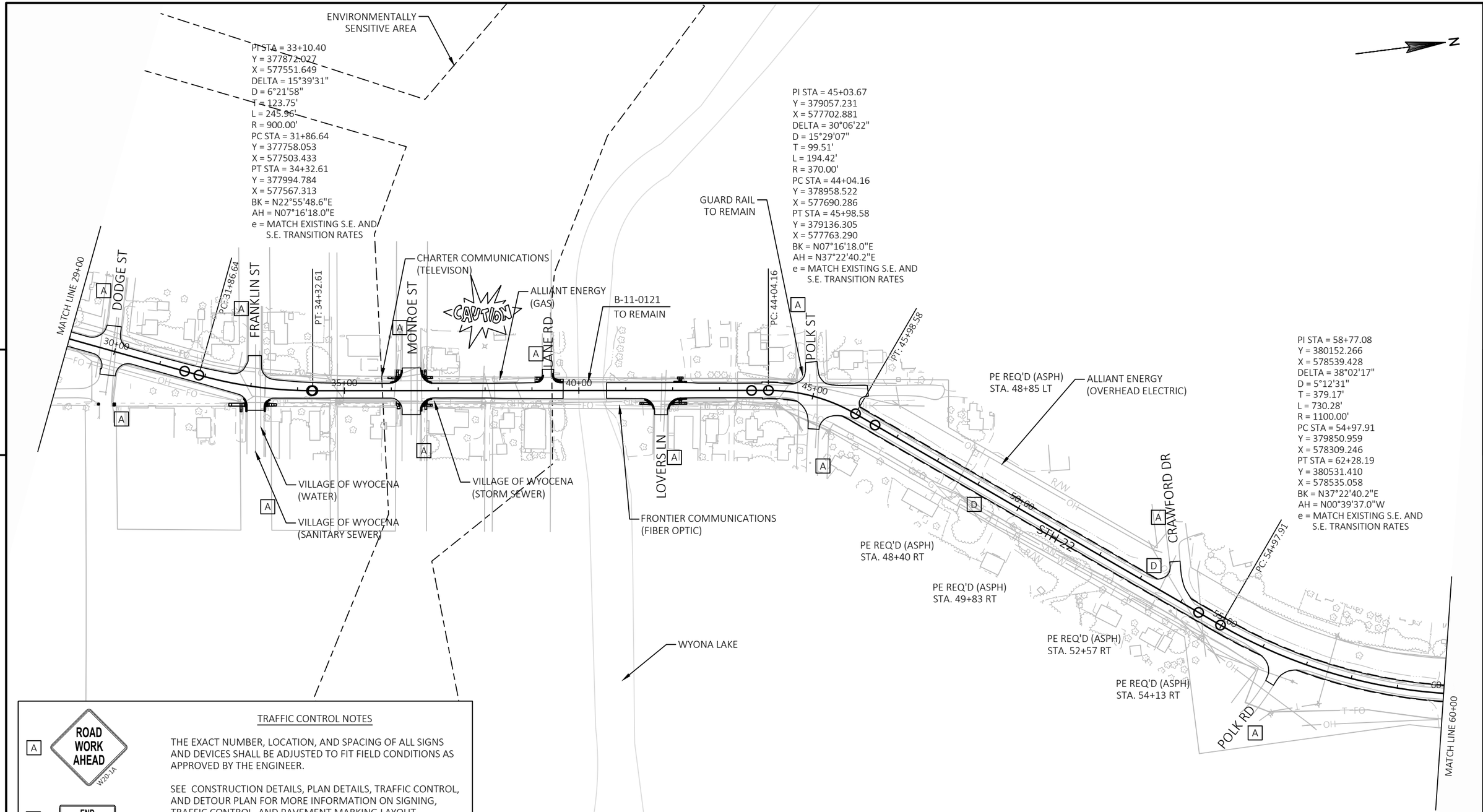
TRAFFIC CONTROL NOTES

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

SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN	SHEET 150	E



TRAFFIC CONTROL NOTES

A — ROAD WORK AHEAD (W20-1A)

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

SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

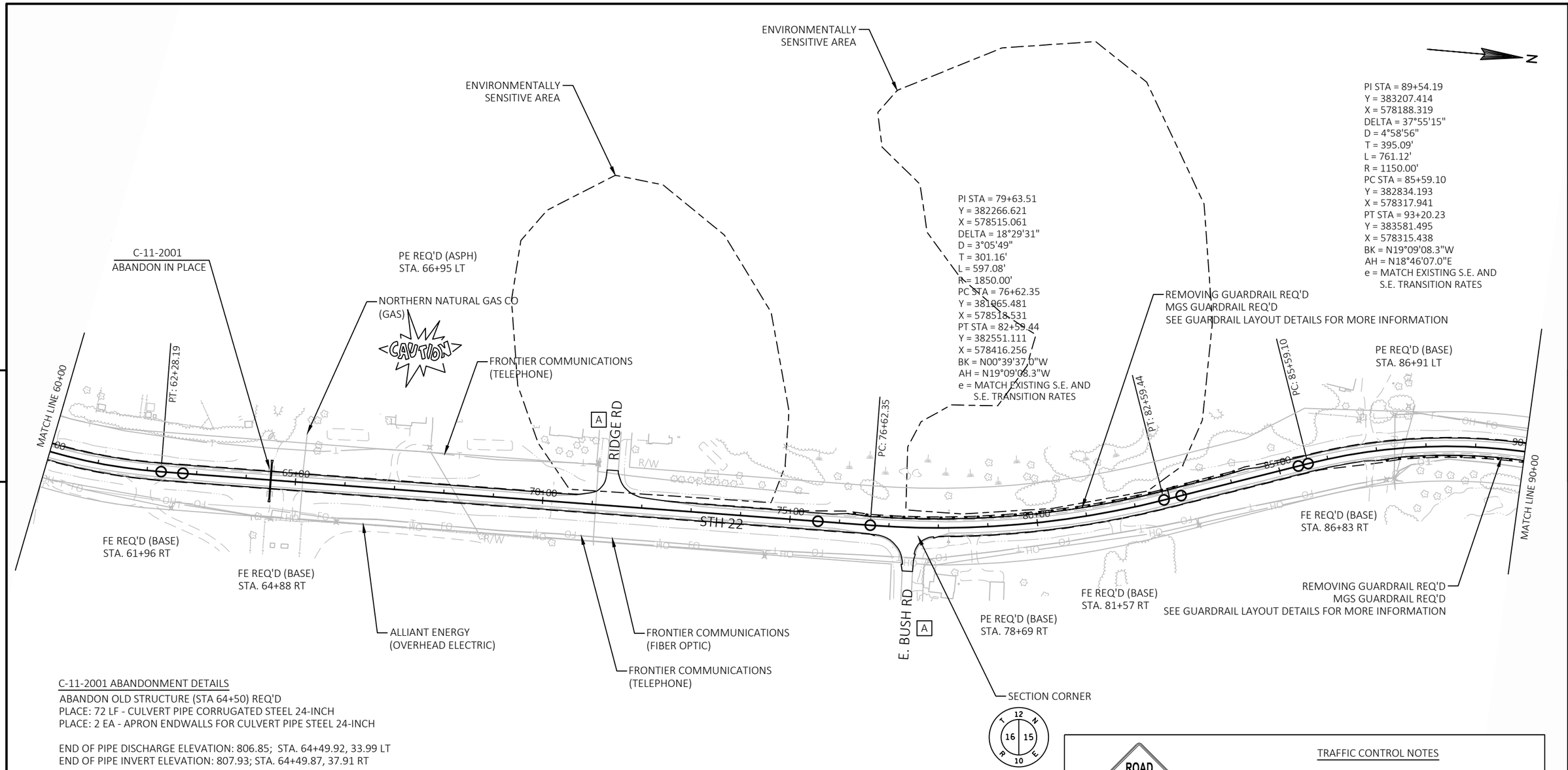
B — END ROAD WORK (G20-2A, 48"X24")

C — ROAD WORK NEXT 11 MILES (G20-1, 60"X24")

D — NO PASSING ZONE

FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN	SHEET 151	E



C-11-2001 ABANDONMENT DETAILS

ABANDON OLD STRUCTURE (STA 64+50) REQ'D
PLACE: 72 LF - CULVERT PIPE CORRUGATED STEEL 24-INCH
PLACE: 2 EA - APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH

END OF PIPE DISCHARGE ELEVATION: 806.85; STA. 64+49.92, 33.99 LT
END OF PIPE INVERT ELEVATION: 807.93; STA. 64+49.87, 37.91 RT

PLACE RIPRAP MEDIUM OVER HR FABRIC AT DISCHARGE END
TOPSOIL, SEEDING MIXTURE NO. 20, FERTILIZER TYPE B, AND MULCH

SEE CONSTRUCTION DETAILS FOR CULVERT PIPE INSTALLATION IN ABANDONED CATTLE PASS FOR MORE INFORMATION

TRAFFIC CONTROL NOTES

A — ROAD WORK AHEAD — W20-1A

B — END ROAD WORK — G20-2A 48"X24"

C — ROAD WORK NEXT 11 MILES — G20-1 60"X24"

D — NO PASSING ZONE

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

SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.

5

N

MATCH LINE 90+00

A W. BUSH RD

PT: 93+20.23

FE REQ'D (BASE)
STA. 93+49 LT

PI STA 95+80.36
Y = 383827.7988
X = 578399.1366
AH = N19° 14' 41.9"E

PI: 95+80.36

PC: 97+03.78

PI STA = 99+40.87
Y = 384168.163
X = 578517.964
DELTA = 18°26'51"
D = 3°55'28"
T = 237.09'
L = 470.07'
R = 1460.00'
PC STA = 97+03.78
Y = 383944.324
X = 578439.817
PT STA = 101+73.86
Y = 384405.229
X = 578521.264
BK = N19°14'41.9"E
AH = N00°47'51.2"E
e = MATCH EXISTING S.E. AND
S.E. TRANSITION RATES

PT: 101+73.86

PI STA 103+05.92
Y = 384537.2760
X = 578523.1019
AH = N00° 03' 07.1"E

PI: 103+05.92

FE REQ'D (BASE)
STA. 105+20 LT

PI STA 105+83.76
Y = 384815.1176
X = 578523.3539
AH = N00° 06' 46.2"W

PI: 105+83.76

ALLIANT ENERGY
(GAS)

CAUTION

ALLIANT ENERGY
(OVERHEAD ELECTRIC)

PE REQ'D (BASE)
STA. 114+84 LT

PI STA 118+98.41
Y = 386129.7628
X = 578520.7652
AH = N00° 01' 31.4"W

CAUTION

PI: 118+98.41

MATCH LINE 120+00

95+00 100+00 105+00 110+00 115+00 120

STH 22

LUECK RD

A

D

REMOVING GUARDRAIL REQ'D
MGS GUARDRAIL REQ'D
SEE GUARDRAIL LAYOUT DETAILS FOR MORE INFORMATION

FE REQ'D (BASE)
STA. 102+18 RT

FE REQ'D (BASE)
STA. 107+13 RT

PE REQ'D (BASE)
STA. 111+59 RT

PE REQ'D (ASPH)
STA. 113+09 RT

PE REQ'D (ASPH)
STA. 116+86 RT

ENBRIDGE ENERGY
(GAS)

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

FRONTIER COMMUNICATIONS
(TELEPHONE)

SECTION CORNER

T 12 N
9 10
16 15
R 10 E

TRAFFIC CONTROL NOTES

A ROAD WORK AHEAD W20-1A

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

SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

B END ROAD WORK
G20-2A
48"X24"

C ROAD WORK NEXT 11 MILES
G20-1
60"X24"

D NO PASSING ZONE

FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.

5

N

PI STA = 136+49.88
Y = 387881.234
X = 578521.652
DELTA = 19°21'52"
D = 2°00'25"
T = 487.10'
L = 964.92'
R = 2855.00'
PC STA = 131+62.78
Y = 387394.131
X = 578520.940
PT STA = 141+27.69
Y = 388340.544
X = 578683.836
BK = N00°05'01.7"E
AH = N19°26'53.9"E
e = MATCH EXISTING S.E. AND S.E. TRANSITION RATES

PE REQ'D (BASE) STA. 131+29 LT
PE REQ'D (ASPH) STA. 131+50 LT
PE REQ'D (ASPH) STA. 133+10 LT
PE REQ'D (ASPH) STA. 138+67 LT
CE REQ'D (ASPH) STA. 139+36 LT
PE REQ'D (BASE) STA. 141+63 LT
CE REQ'D (ASPH) STA. 147+72 LT
CE REQ'D (ASPH) STA. 148+88 LT
CE REQ'D (ASPH) STA. 149+66 LT

PI STA 127+77.37
Y: 387008.7227,
X: 578520.3759
AH: N00° 05' 01.7"E

PC: 131+62.78
PT: 141+27.69

ALLIANT ENERGY (OVERHEAD ELECTRIC)
ALLIANT ENERGY (GAS)
FRONTIER COMMUNICATIONS (TELEPHONE)

MATCH LINE 120+00
MATCH LINE 150+00

STH 22

FE REQ'D (BASE) STA. 121+37 RT
PE REQ'D (ASPH) STA. 127+79 RT
FE REQ'D (BASE) STA. 131+25 RT
PE REQ'D (BASE) STA. 141+57 RT
CE REQ'D (ASPH) STA. 145+49 RT
CE REQ'D (ASPH) STA. 149+69 RT

ALLIANT ENERGY (GAS)
FRONTIER COMMUNICATIONS (FIBER OPTIC)
FRONTIER COMMUNICATIONS (TELEPHONE)
SECTION CORNER
DH5554-PARDEEVILLE GPS (DO NOT DISTURB)

T 12 N
R 9 10 E
10

TRAFFIC CONTROL NOTES

A — ROAD WORK AHEAD — W20-1A

B — END ROAD WORK — G20-2A 48"X24"

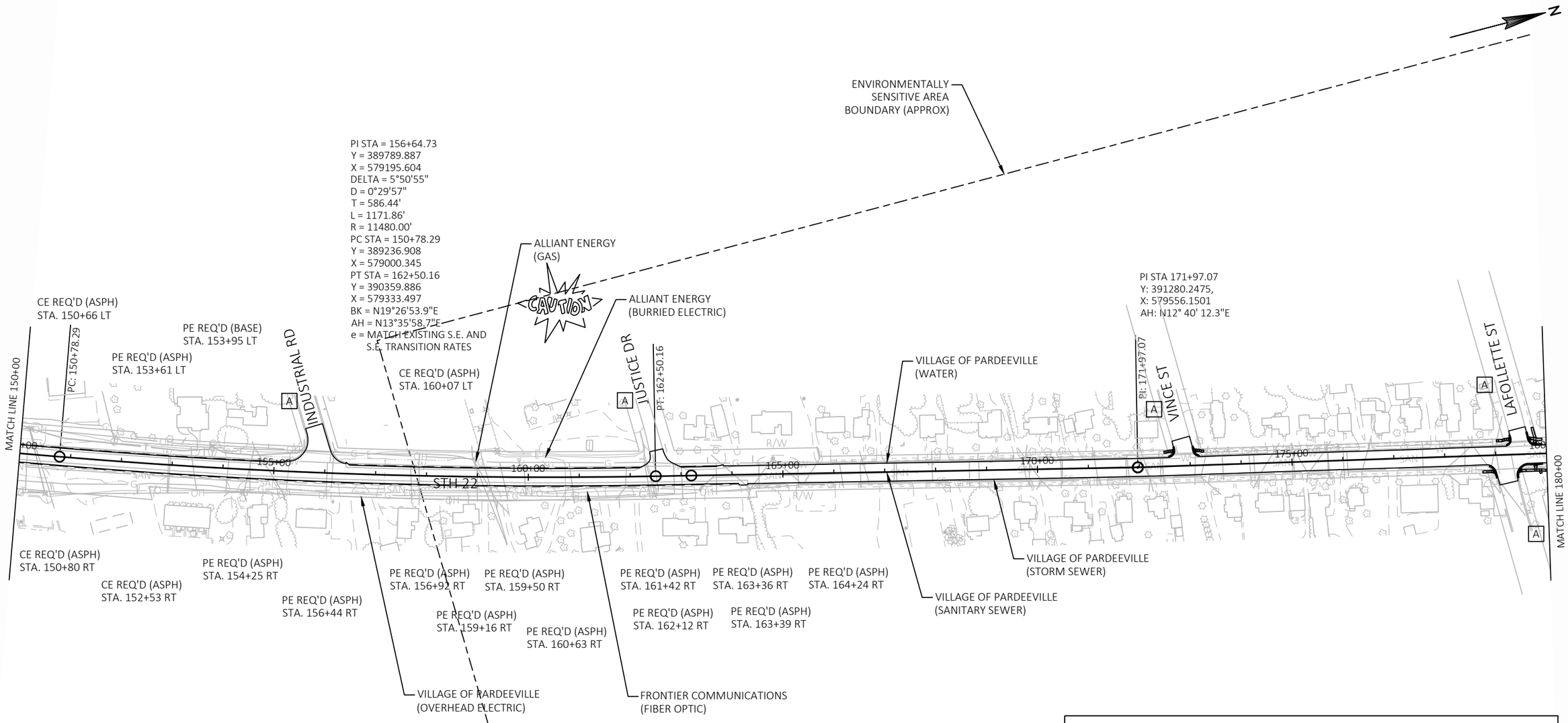
C — ROAD WORK NEXT 11 MILES — G20-1 60"X24"

D — NO PASSING ZONE

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

SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.



A — ROAD WORK AHEAD — W20-1A

B — END ROAD WORK — G20-2A 48"X24"

C — ROAD WORK NEXT 11 MILES — G20-1 60"X24"

D — NO PASSING ZONE

TRAFFIC CONTROL NOTES

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

SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.

5

N

SPRING LAKE

ALLIANT ENERGY
(GAS)

CAUTION

MATCH LINE 180+00

CHESTNUT ST

PI STA 186+58.48
Y: 392706.0766,
X: 579876.6926
AH: N11° 23' 55.6"E

PI: 186+58.48

PI STA 188+78.59
Y: 392921.8404,
X: 579920.1934
AH: N11° 03' 26.0"E

PI: 188+78.59

VILLAGE OF PARDEEVILLE
(BURRIED ELECTRIC)

VILLAGE OF PARDEEVILLE
(WATER)

VILLAGE OF PARDEEVILLE
(STORM SEWER)

PI STA 195+91.74
Y: 393621.7558,
X: 580056.9688
AH: N10° 24' 26.0"E

PI STA 197+02.82
Y: 393731.0006,
X: 580077.0332
AH: N10° 40' 19.6"E

PI: 195+91.74

PI: 197+02.82

PC: 199+02.16

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

CHARTER COMMUNICATIONS
(TELEVISON)

VILLAGE OF PARDEEVILLE
(SANITARY SEWER)

PI STA 204+57.69
Y: 394437.3185,
X: 579911.8136
AH: N24° 05' 39.8"W

PI: 204+57.69

MATCH LINE 210+00

VILLAGE OF PARDEEVILLE
(OVERHEAD ELECTRIC)

VILLAGE OF PARDEEVILLE
(OVERHEAD ELECTRIC)

VILLAGE OF PARDEEVILLE
(BURRIED ELECTRIC)

STH 22

LAKE ST / STH 44

185+00

190+00

195+00

200+00

205+00

210+00

A

R/W

PT: 200+21.82

PI STA = 199+64.05
Y = 393987.719
X = 580125.411
DELTA = 36°05'01"
D = 30°09'20"
T = 61.89'
L = 119.66'
R = 190.00'
PC STA = 199+02.16
Y = 393926.901
X = 580113.950
PT STA = 200+21.82
Y = 394043.619
X = 580098.854
BK = N10°40'19.6"E
AH = N25°24'41.9"W
e = MATCH EXISTING S.E. AND
S.E. TRANSITION RATES

PARK LAKE

TRAFFIC CONTROL NOTES

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

SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

A — ROAD WORK AHEAD — W20-1A

B — END ROAD WORK — G20-2A 48"X24"

C — ROAD WORK NEXT 11 MILES — G20-1 60"X24"

D — NO PASSING ZONE

FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.

NOTE: ALL AREAS ON THIS SHEET ARE WITHIN AN ENVIRONMENTALLY SENSITIVE AREA.

SPRING LAKE

ENVIRONMENTALLY SENSITIVE AREA BOUNDARY (APPROX)

PI STA = 219+79.39
Y = 395826.429
X = 579290.569
DELTA = 24°29'34"
D = 11°56'12"
T = 104.19'
L = 205.19'
R = 480.00'
PC STA = 218+75.21
Y = 395731.321
X = 579333.105
PT STA = 220+80.40
Y = 395895.344
X = 579212.430
BK = N24°05'46.2"W
AH = N48°35'20.3"W
e = MATCH EXISTING S.E. AND S.E. TRANSITION RATES

PI STA = 230+53.23
Y = 396538.827
X = 578482.825
DELTA = 48°36'16"
D = 5°00'14"
T = 517.04'
L = 971.31'
R = 1145.00'
PC STA = 225+36.18
Y = 396196.827
X = 578870.598
PT STA = 235+07.50
Y = 397055.868
X = 578482.965
BK = N48°35'20.3"W
AH = N00°00'55.8"E
e = MODIFIED (SEE SUPER ELEVATION TABLES)

PLACE PCMS 7 DAYS BEFORE BRIDGE CLOSURE BEGINS

HWY 22
CLOSED

BEGINS
(DATE)

N

CHARTER COMMUNICATIONS (TELEVISON)

ALLIANT ENERGY (GAS)

CAUTION

VILLAGE OF PARDEEVILLE (WATER)

FRONTIER COMMUNICATIONS (FIBER OPTIC)

MATCH LINE 210+00

MORTON ST

A

STH 22

PCMS

PC: 218+75.21

PT: 220+80.40

PC: 225+36.18

FOX RIVER

HASKIN DR

REMOVING GUARDRAIL REQ'D
MGS GUARDRAIL REQ'D
SEE GUARDRAIL LAYOUT DETAILS FOR MORE INFORMATION

PE REQ'D (BASE)
STA. 231+98 LT

PE REQ'D (BASE)
STA. 233+00 LT

VILLAGE OF PARDEEVILLE (OVERHEAD ELECTRIC)

ALLIANT ENERGY (GAS)

CAUTION

PI STA 237+91.45
Y: 397339.8242,
X: 578483.0422
AH: N00° 14' 12.8"E

PE REQ'D (ASPH)
STA. 238+49 LT

PI: 237+91.45

PT: 235+07.50

PONDVIEW DR

LINTER RD

B-11-0007
(REMOVE & REPLACE)

PE REQ'D (ASPH)
STA. 235+93 RT

REMOVING GUARDRAIL REQ'D
MGS GUARDRAIL REQ'D
SEE GUARDRAIL LAYOUT DETAILS FOR MORE INFORMATION

MATCH LINE 240+00

PI: 211+31.41

RIVER ST

PI STA 211+31.41
Y: 395052.3410,
X: 579636.7730
AH: N24° 05' 46.2"W

VILLAGE OF PARDEEVILLE (SANITARY SEWER)

VILLAGE OF PARDEEVILLE (OVERHEAD ELECTRIC)

VILLAGE OF PARDEEVILLE (STORM SEWER)

PLACE PCMS 7 DAYS BEFORE BRIDGE CLOSURE BEGINS

HWY 22
CLOSED

BEGINS
(DATE)

PARK LAKE

TRAFFIC CONTROL NOTES

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

SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

A — ROAD WORK AHEAD — W20-1A

B — END ROAD WORK — G20-2A — 48"X24"

C — ROAD WORK NEXT 11 MILES — G20-1 — 60"X24"

D — NO PASSING ZONE

FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN	SHEET 157	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\050101_PN 1-200.DWG
LAYOUT NAME - 0501088

PLOT DATE : 9/25/2019 3:44 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

TRAFFIC CONTROL NOTES

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

SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

A — ROAD WORK AHEAD — W20-1A

B — END ROAD WORK — G20-2A 48"X24"

C — ROAD WORK NEXT 11 MILES — G20-1 60"X24"

D — NO PASSING ZONE

FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.

N

PE REQ'D (BASE)
STA. 246+00 LT

FRONTIER COMMUNICATIONS
(TELEPHONE)

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

PE REQ'D (ASPH)
STA. 248+80 LT

PE REQ'D (BASE)
STA. 250+93 LT

PE REQ'D (BASE)
STA. 252+24 LT

PI STA 251+76.43
Y: 398724.7928,
X: 578488.7685
AH: N00° 05' 43.7"E

PI: 251+76.43

PE REQ'D (BASE)
STA. 253+18 LT

PE REQ'D (BASE)
STA. 253+81 LT

PE REQ'D (ASPH)
STA. 254+55 LT

PE REQ'D (BASE)
STA. 255+59 LT

ALLIANT ENERGY
(GAS)

CAUTION

ADAMS-COLUMBIA ELECTRIC CO-OP
(OVERHEAD ELECTRIC)

CE REQ'D (ASPH)
STA. 268+86 LT

HAYNES RD

MATCH LINE 240+00

240+00 245+00 250+00 255+00 260+00 265+00 270

R/W

STH 22

MATCH LINE 270+00

D

ALLIANT ENERGY
(OVERHEAD ELECTRIC)

PE REQ'D (BASE)
STA. 251+81 RT

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

PE REQ'D (BASE)
STA. 254+98 RT

PE REQ'D (ASPH)
STA. 263+44 RT

PI: 265+57.67

A

SECTION CORNER

T13N R10E 33 34 4 3 T12N

PI STA 265+57.67
Y: 400106.0242,
X: 578491.0701
AH: N00° 06' 00.0"E

ENVIRONMENTALLY
SENSITIVE AREA
BOUNDARY (APPROX)

ENVIRONMENTALLY
SENSITIVE AREA

5

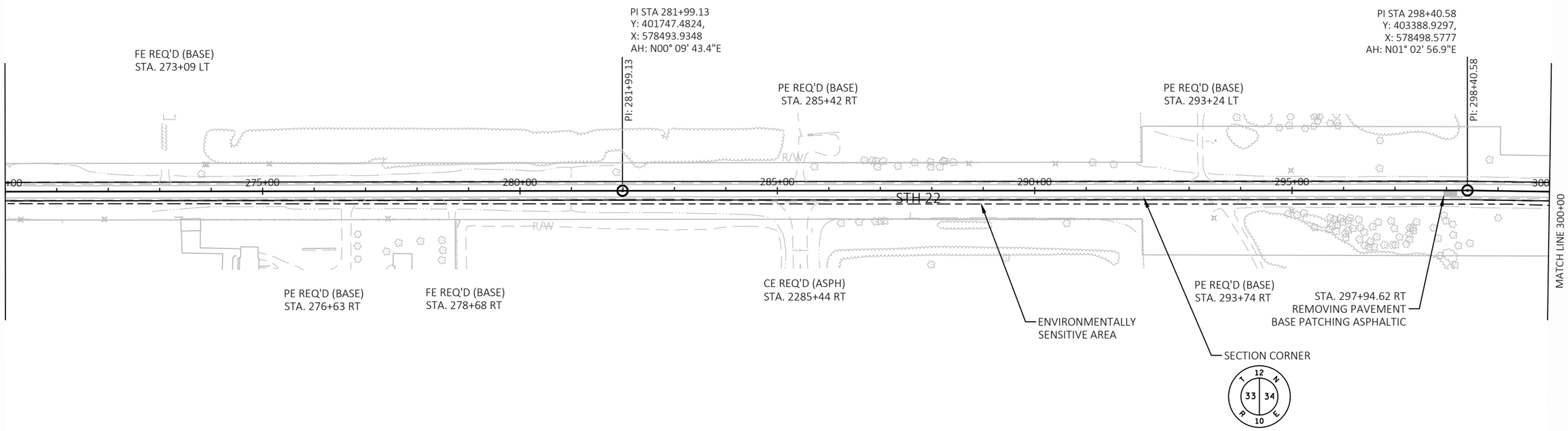
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN	SHEET 158	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\050101_PN 1-200.DWG
LAYOUT NAME - 0501089

PLOT DATE : 9/25/2019 3:44 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44



A — ROAD WORK AHEAD — W20-1A

B — END ROAD WORK — G20-2A 48"X24"

C — ROAD WORK NEXT 11 MILES — G20-1 60"X24"

D — NO PASSING ZONE

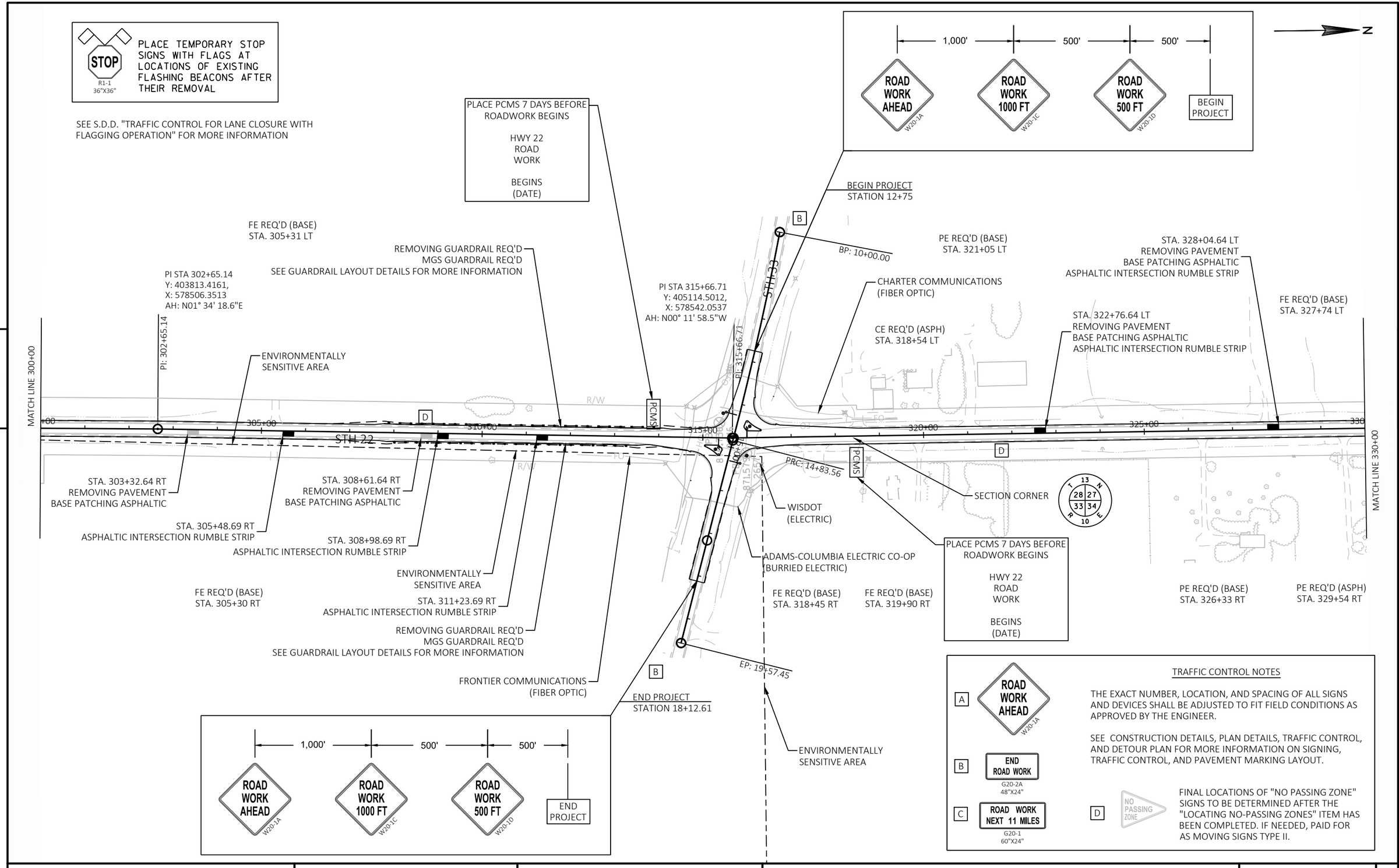
TRAFFIC CONTROL NOTES

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

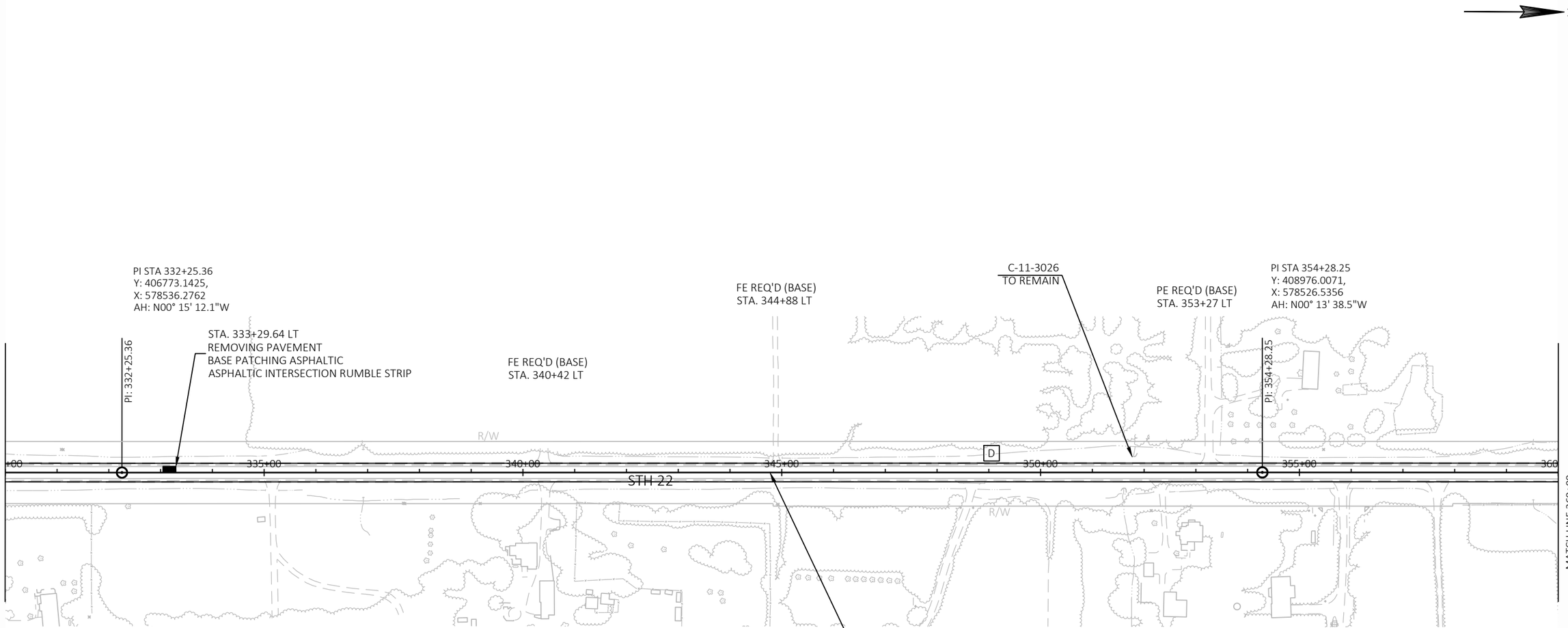
SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN	SHEET 159 E



PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN	SHEET 160	E



A — ROAD WORK AHEAD (W20-1A)

B — END ROAD WORK (G20-2A 48"X24")

C — ROAD WORK NEXT 11 MILES (G20-1 60"X24")

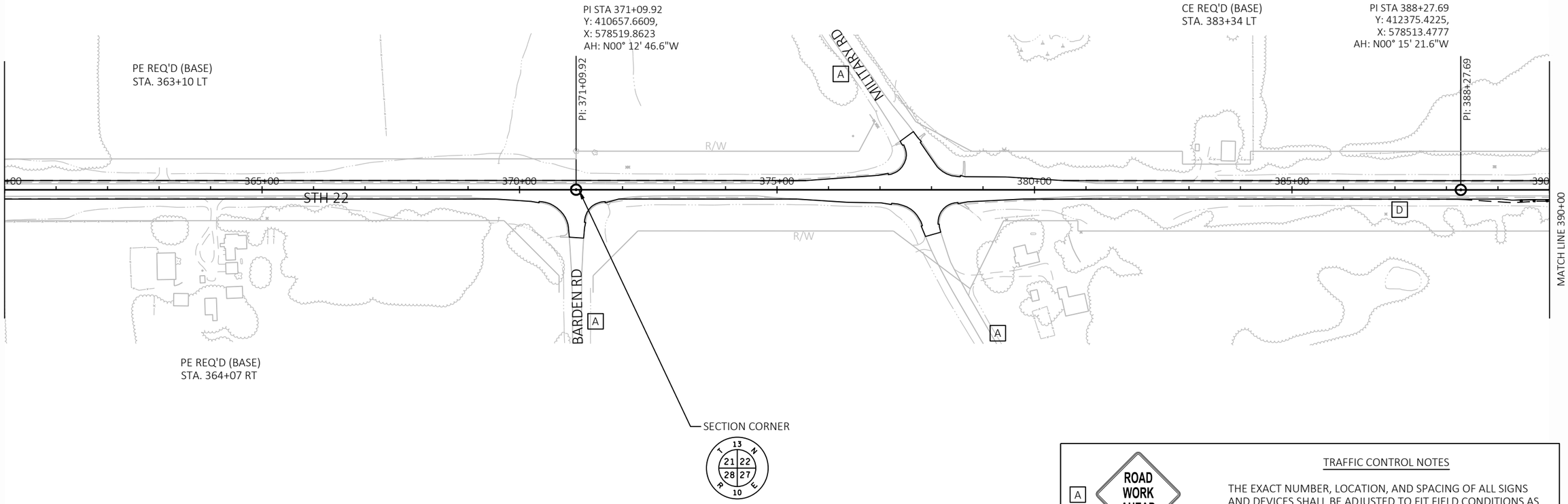
D — NO PASSING ZONE

TRAFFIC CONTROL NOTES

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

SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.



A — ROAD WORK AHEAD (W20-1A)

B — END ROAD WORK (G20-2A, 48"X24")

C — ROAD WORK NEXT 11 MILES (G20-1, 60"X24")

D — NO PASSING ZONE

TRAFFIC CONTROL NOTES

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

SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.

N

PI STA = 418+53.17
Y = 415400.866
X = 578499.960
DELTA = 20°30'01"
D = 1°00'00"
T = 1036.16'
L = 2050.17'
R = 5730.00'
PC STA = 408+17.00
Y = 414364.712
X = 578504.590
PT STA = 428+67.17
Y = 416373.023
X = 578858.497
BK = N00°15'21.6"W
AH = N20°14'39.3"E
e = MATCH EXISTING S.E. AND S.E. TRANSITION RATES

C-11-3027 (72" CMP EXISTING)
SMOOTH LINED CULVERT LINER, STA 398+64, 66" REQ'D

PLACE RIPRAP MEDIUM OVER HR FABRIC AT BOTH ENDS OF CULVERT

FRONTIER COMMUNICATIONS
(FIBER OPTIC)

FE REQ'D (BASE)
STA. 391+28 LT

PE REQ'D (BASE)
STA. 401+92 LT

FE REQ'D (BASE)
STA. 412+62 LT

REMOVING GUARDRAIL REQ'D
MGS GUARDRAIL REQ'D
SEE GUARDRAIL LAYOUT DETAILS FOR MORE INFORMATION

MATCH LINE 390+00

PC: 408+17.00

R/W

STH 22

390+00 395+00 400+00 405+00 410+00 415+00 420+00

MATCH LINE 420+00

ADAMS-COLUMBIA ELECTRIC CO-OP
(BURIED ELECTRIC)

PE REQ'D (BASE)
STA. 402+55 RT

PE REQ'D (ASPH)
STA. 396+69 RT

FRONTIER COMMUNICATIONS
(TELEPHONE)

PE REQ'D (BASE)
STA. 412+26 RT

REMOVING GUARDRAIL REQ'D
MGS GUARDRAIL REQ'D
SEE GUARDRAIL LAYOUT DETAILS FOR MORE INFORMATION

REMOVING GUARDRAIL REQ'D
MGS GUARDRAIL REQ'D
SEE GUARDRAIL LAYOUT DETAILS FOR MORE INFORMATION

SECTION CORNER

T 13 N
R 21 22 E
10

TRAFFIC CONTROL NOTES

A — ROAD WORK AHEAD — W20-1A

B — END ROAD WORK — G20-2A 48"X24"

C — ROAD WORK NEXT 11 MILES — G20-1 60"X24"

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

SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

D — NO PASSING ZONE

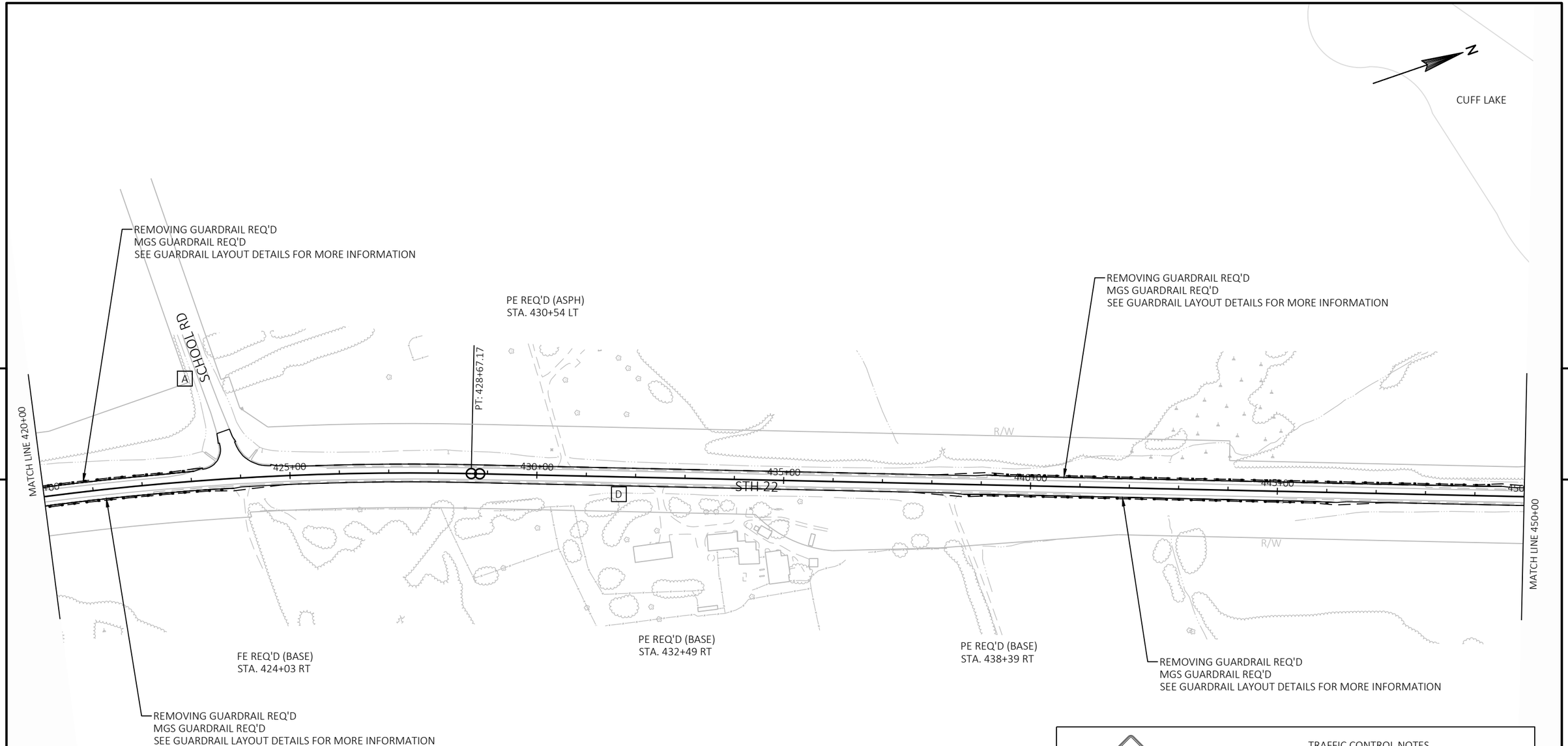
FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN	SHEET 163	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\050101_PN 1-200.DWG
LAYOUT NAME - 0501094

PLOT DATE : 9/25/2019 3:44 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44



A — ROAD WORK AHEAD — W20-1A

B — END ROAD WORK — G20-2A — 48"X24"

C — ROAD WORK NEXT 11 MILES — G20-1 — 60"X24"

TRAFFIC CONTROL NOTES

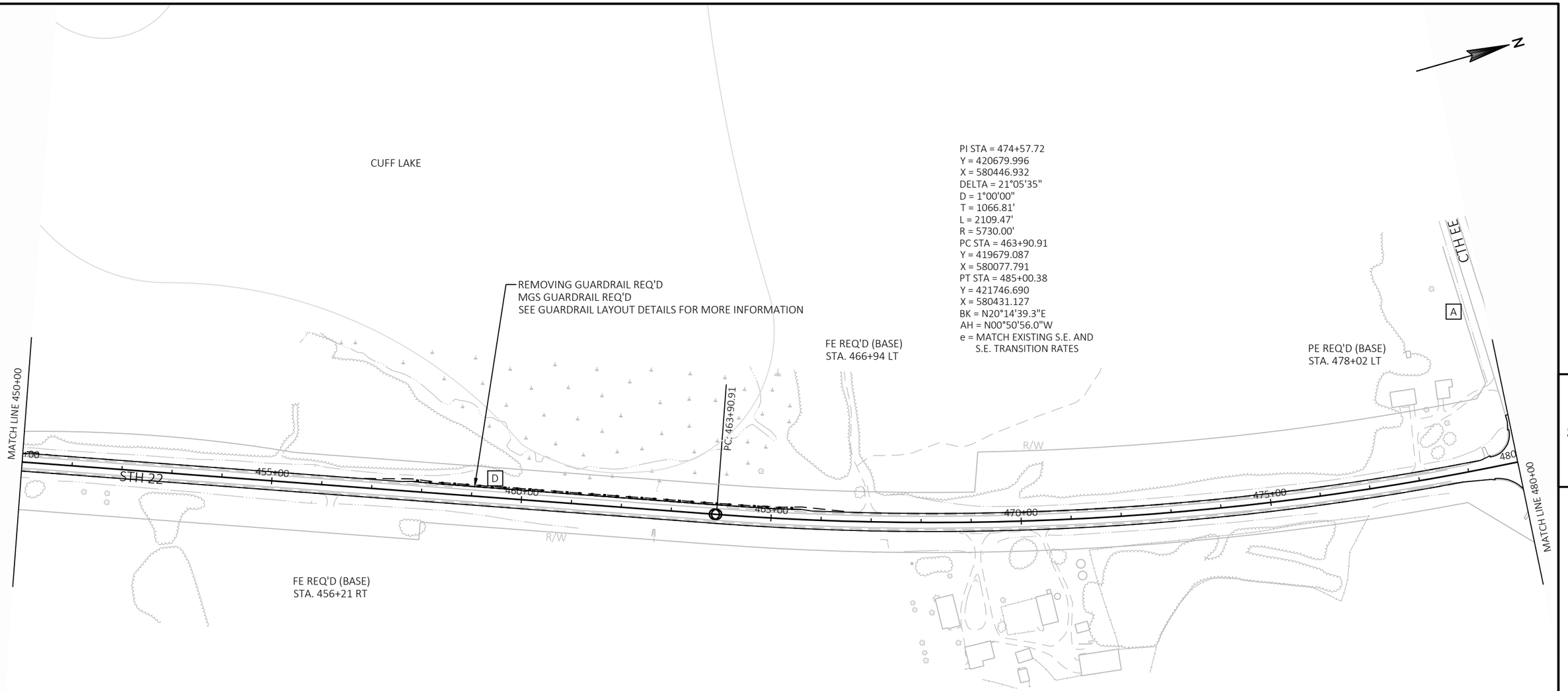
THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

D — NO PASSING ZONE — FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN	SHEET 164	E

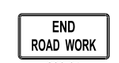
FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\050101_PN 1-200.DWG
LAYOUT NAME - 0501095
PLOT DATE : 9/25/2019 3:44 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:200 FT



A

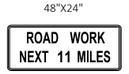


B



G20-2A
48"X24"

C



G20-1
60"X24"

TRAFFIC CONTROL NOTES

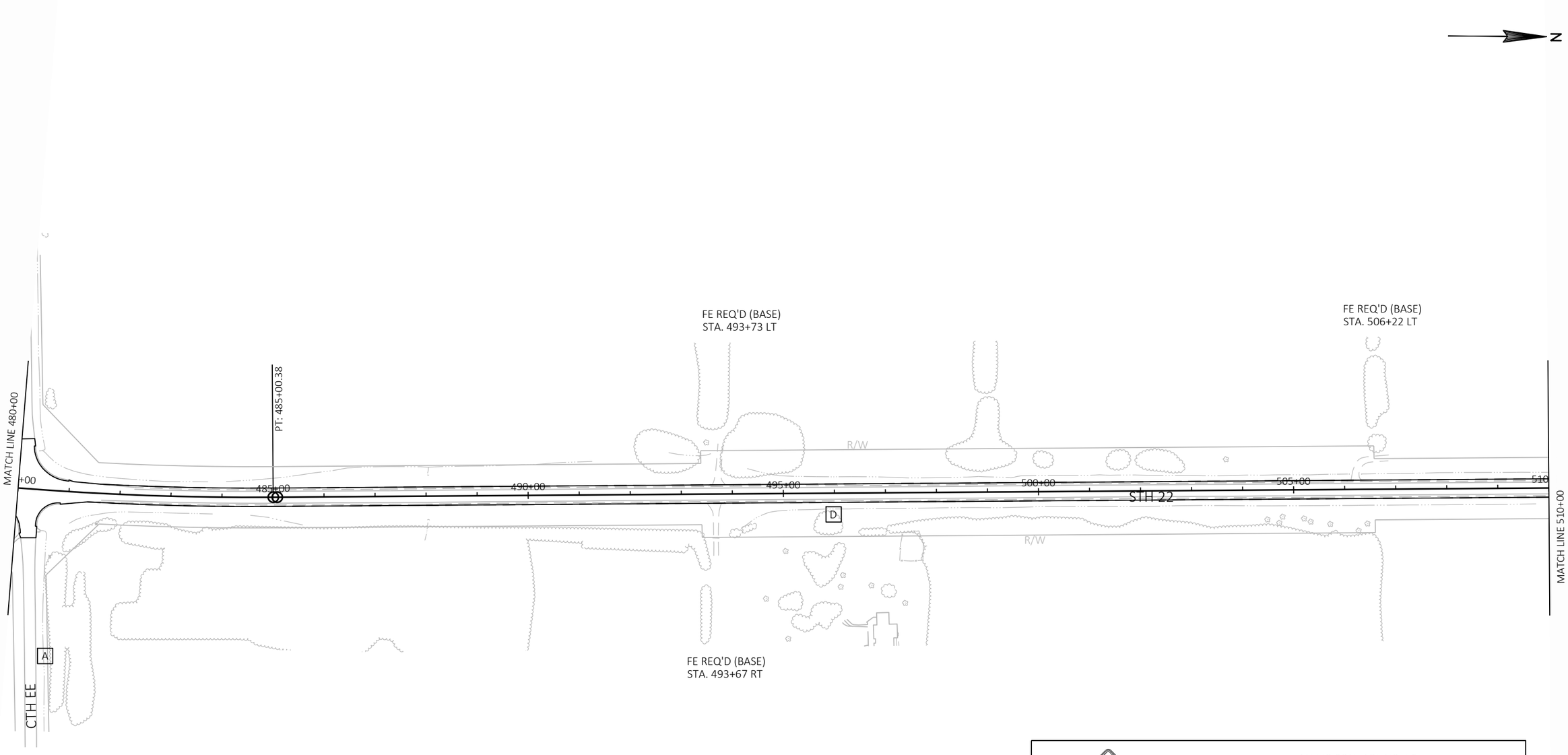
THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

D



FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.



5

5

A — ROAD WORK AHEAD — W20-1A

B — END ROAD WORK — G20-2A — 48"X24"

C — ROAD WORK NEXT 11 MILES — G20-1 — 60"X24"

D — NO PASSING ZONE

TRAFFIC CONTROL NOTES

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

SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.

PI STA = 530+92.20
Y = 426338.006
X = 580363.097
DELTA = 18°33'39"
D = 1°00'22"
T = 930.59'
L = 1844.88'
R = 5695.00'
PC STA = 521+61.61
Y = 425407.519
X = 580376.884
PT STA = 540+06.49
Y = 427224.485
X = 580646.211
BK = N00°50'56.0"W
AH = N17°42'42.7"E
e = MATCH EXISTING S.E. AND
S.E. TRANSITION RATES

FE REQ'D (BASE)
STA. 526+81 LT

FE REQ'D (BASE)
STA. 513+56 LT

PC: 521+61.61

TURNER RD

MATCH LINE 510+00

STH 22

R/W

510+00

515+00

520+00

525+00

530+00

535+00

540

MATCH LINE 540+00

OLD 22 RD

PE REQ'D (BASE)
STA. 526+85 LT

FE REQ'D (BASE)
STA. 513+47 RT

TRAFFIC CONTROL NOTES

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

SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

A — ROAD WORK AHEAD — W20-1A

B — END ROAD WORK — G20-2A 48"X24"

C — ROAD WORK NEXT 11 MILES — G20-1 60"X24"

D — NO PASSING ZONE

FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.

PI STA = 557+58.76
Y = 428893.691
X = 581179.304
DELTA = 17°51'16"
D = 0°55'59"
T = 964.48'
L = 1913.34'
R = 6140.00'
PC STA = 547+94.27
Y = 427974.925
X = 580885.878
PT STA = 567+07.61
Y = 429858.173
X = 581176.905
BK = N17°42'42.7"E
AH = N00°08'33.1"W
e = MATCH EXISTING S.E. AND S.E. TRANSITION RATES

PE REQ'D (BASE)
STA. 544+12 LT

C-11-3028
TO REMAIN

PE REQ'D (BASE)
STA. 549+27 LT

PE REQ'D (BASE)
STA. 556+21 LT

PE REQ'D (BASE)
STA. 560+69 LT

FE REQ'D (BASE)
STA. 569+47 LT

MATCH LINE 540+00

PT: 540+06.49

PC: 547+94.27

PT: 567+07.61

MATCH LINE 570+00

540+00
545+00
550+00
555+00
560+00
565+00
570+00

STH 22

RW

FE REQ'D (BASE)
STA. 541+92 RT

FE REQ'D (BASE)
STA. 544+18 RT

FE REQ'D (BASE)
STA. 548+42 RT

PE REQ'D (ASPH)
STA. 556+19 RT

PE REQ'D (BASE)
STA. 558+68 RT

FE REQ'D (BASE)
STA. 559+66 RT

PE REQ'D (BASE)
STA. 566+69 RT

PE REQ'D (BASE)
STA. 568+42 RT

TRAFFIC CONTROL NOTES

A — ROAD WORK AHEAD — W20-1A

B — END ROAD WORK — G20-2A 48"X24"

C — ROAD WORK NEXT 11 MILES — G20-1 60"X24"

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

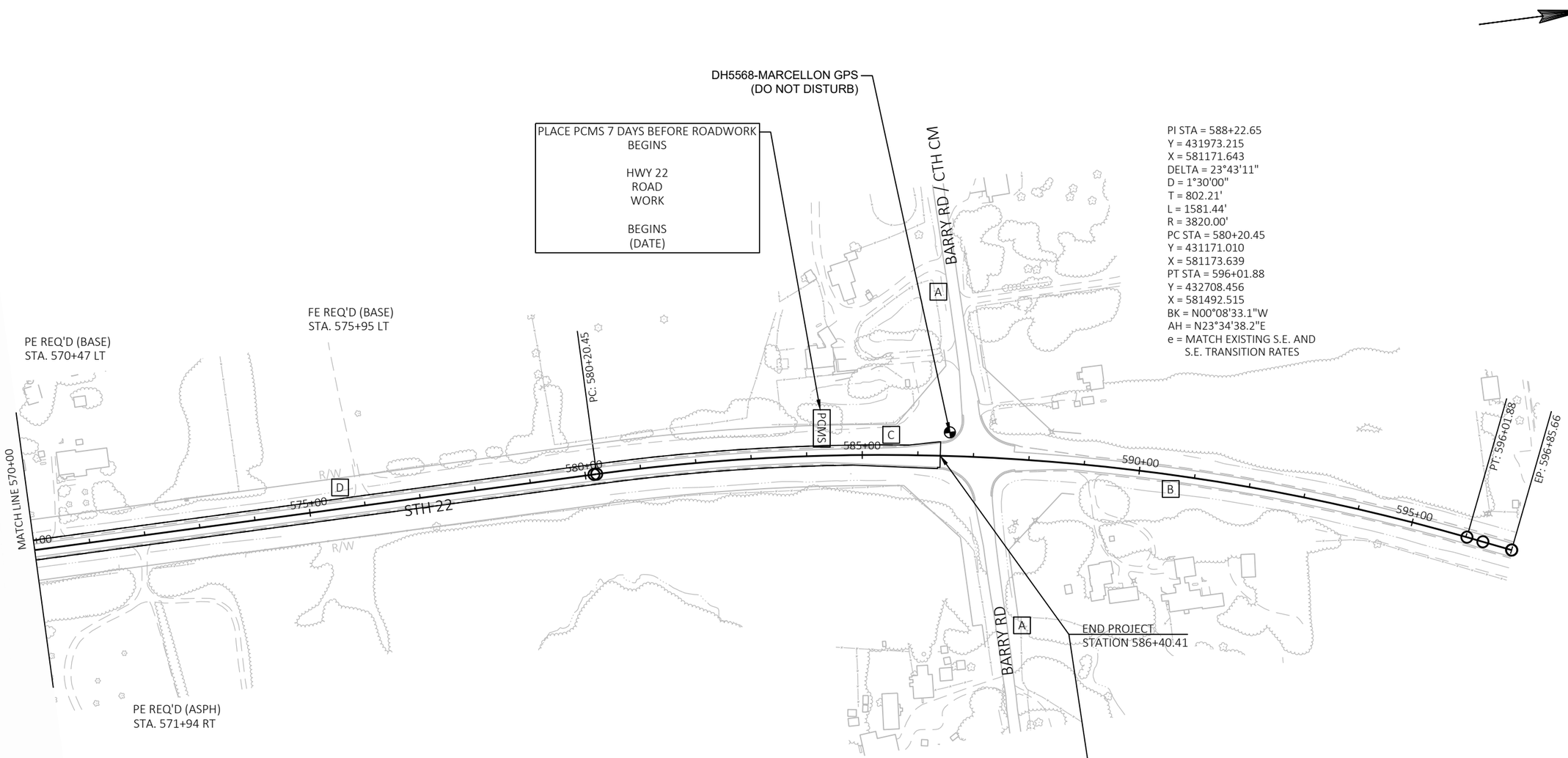
SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

D — NO PASSING ZONE

FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN	SHEET 168 E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\050101_PN 1-200.DWG
LAYOUT NAME - 0501099
PLOT DATE : 9/25/2019 3:45 PM
PLOT BY : NELSON, JOSHUA B
PLOT NAME :
PLOT SCALE : 1 IN:200 FT



TRAFFIC CONTROL NOTES

A — ROAD WORK AHEAD (W20-1A)

B — END ROAD WORK (G20-2A, 48"X24")

C — ROAD WORK NEXT 11 MILES (G20-1, 60"X24")

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

SEE CONSTRUCTION DETAILS, PLAN DETAILS, TRAFFIC CONTROL, AND DETOUR PLAN FOR MORE INFORMATION ON SIGNING, TRAFFIC CONTROL, AND PAVEMENT MARKING LAYOUT.

D — NO PASSING ZONE

FINAL LOCATIONS OF "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER THE "LOCATING NO-PASSING ZONES" ITEM HAS BEEN COMPLETED. IF NEEDED, PAID FOR AS MOVING SIGNS TYPE II.

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	PLAN	SHEET 169 E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSPLAN\050101_PN 1-200.DWG
LAYOUT NAME - 05010100
PLOT DATE : 9/25/2019 3:45 PM
PLOT BY : NELSON, JOSHUA B
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

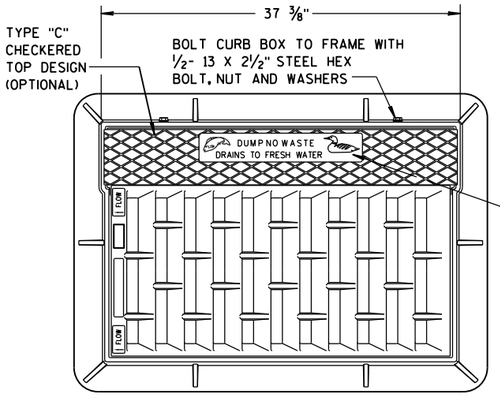
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
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
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E11-02	TURBIDITY BARRIER
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
09B02-10	CONDUIT
09B16-01	PULL BOX NON-CONDUCTIVE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09E01-15A	POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E07-06	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
11B02-02	CONCRETE MEDIAN NOSE
12A03-10	NAME PLATE (STRUCTURES)
13A03-06	CONCRETE PAVEMENT SHOULDERS
13A08-01	ASPHALTIC RUMBLE STRIPS AT INTERSECTION
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
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13B02-09B	STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C11-12A	RURAL DOWELED CONCRETE PAVEMENT
13C11-12B	RURAL DOWELED CONCRETE PAVEMENT
13C13-09	URBAN DOWELED CONCRETE PAVEMENT
13C19-01	HMA LONGITUDINAL JOINTS
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
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
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)
14B47-02A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
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

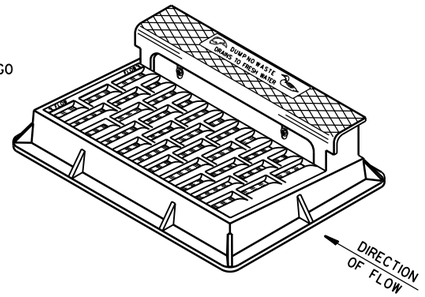
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Standard Detail Drawing List

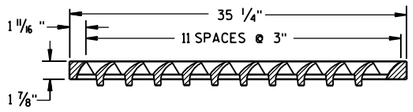
15C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-07B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-07C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19B	PAVEMENT MARKING (TURN LANES)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C27-03B	PAVEMENT MARKING (ISLANDS)
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-03A	PAVEMENT MARKING (INTERSECTIONS)
15D30-05A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-05B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-05C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING

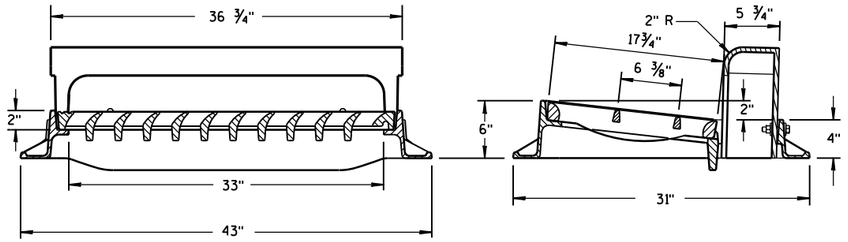


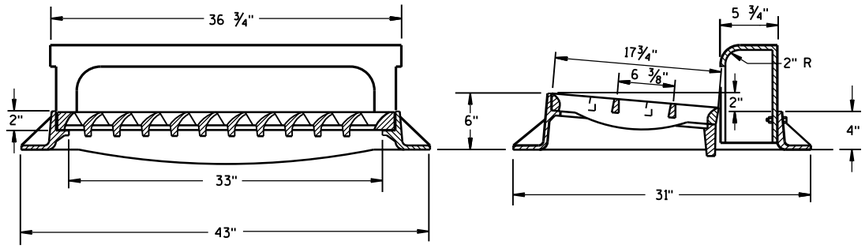
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

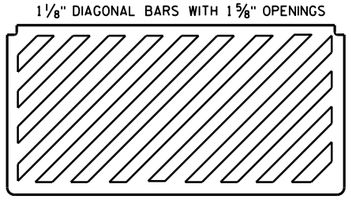






TYPE "H"

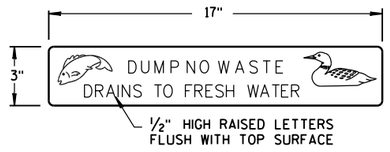
NOTE: EITHER CASTING IS ACCEPTABLE



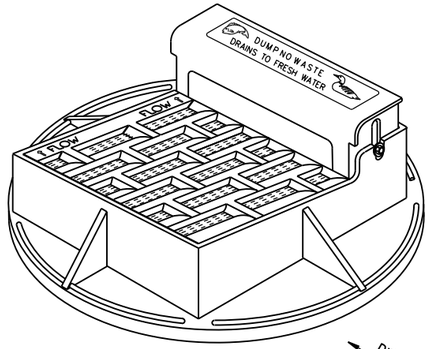
SPECIAL GRATE FOR TYPE "H" COVER

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

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

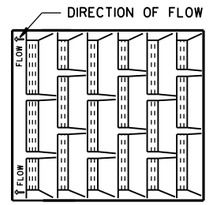
NOTE:
GRATE IS REVERSIBLE.

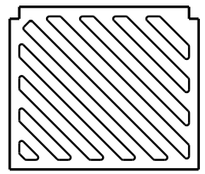
GENERAL NOTES

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

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

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

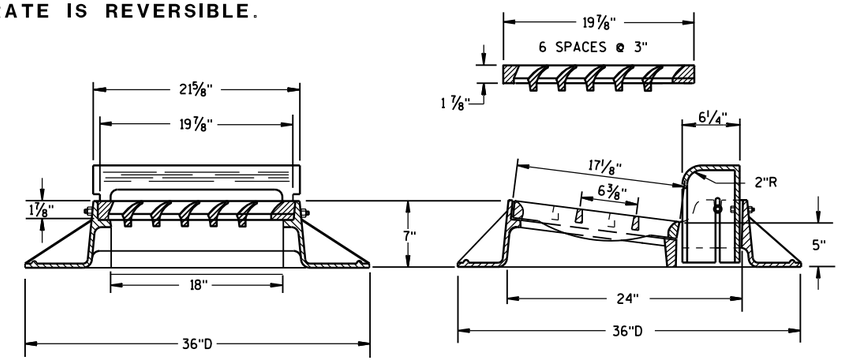




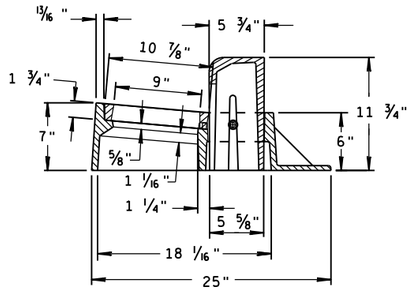
SPECIAL GRATE FOR TYPE "A" COVER

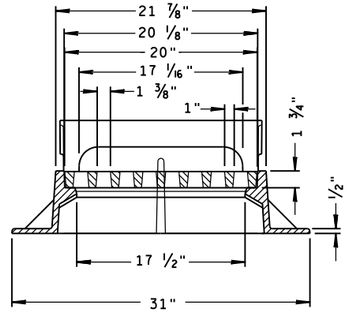
(MEASURES 19 3/4" X 17" X 1 7/8")

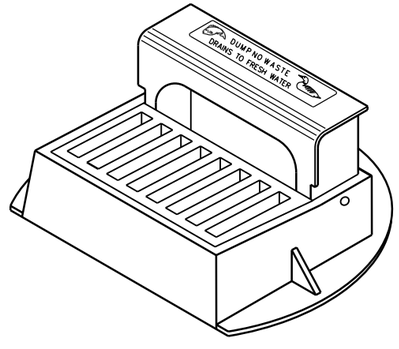
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

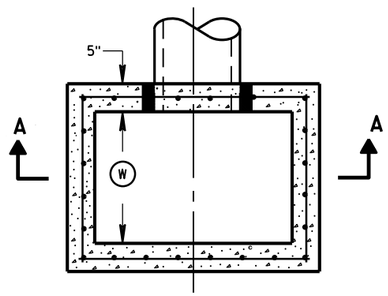
INLET COVERS
TYPE A, H, A-S, H-S & Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

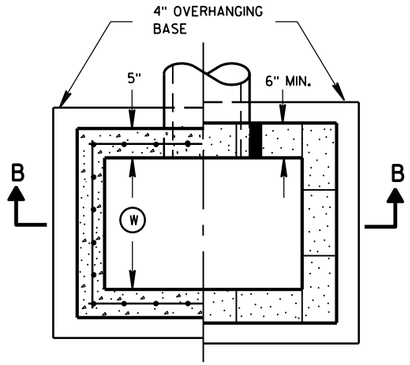
APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

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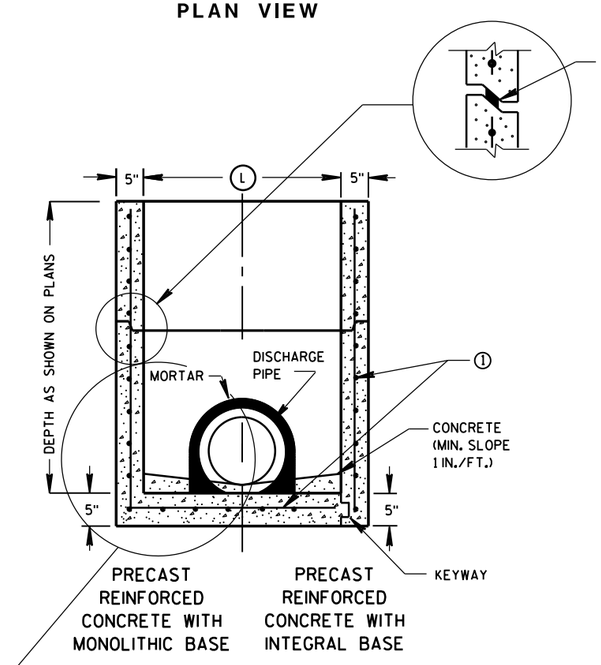
S.D.D. 8 A 5-19a



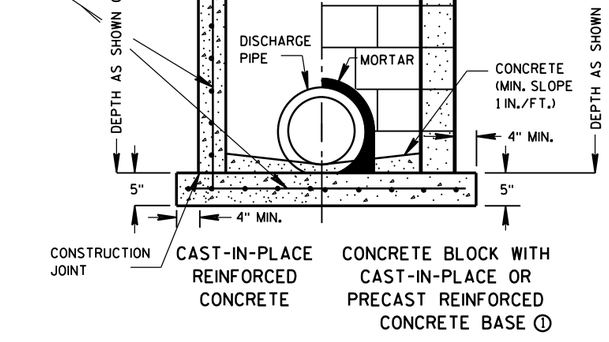
PLAN VIEW



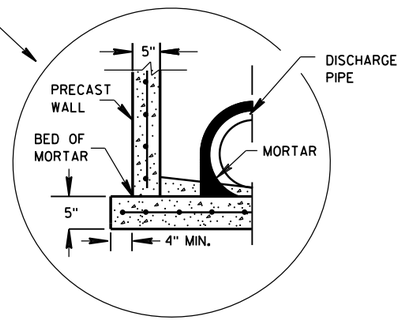
PLAN VIEW



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.

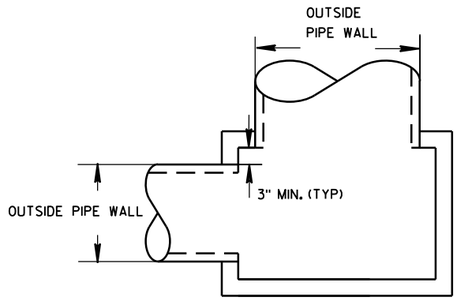
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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



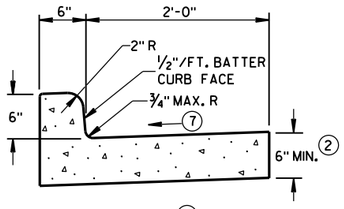
DETAIL "A"

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

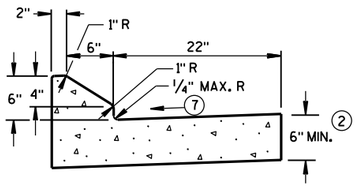
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT
UNIT SUPERVIS
FHWA

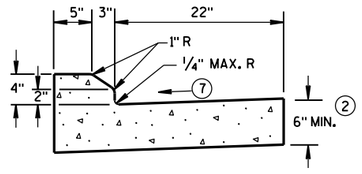
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT



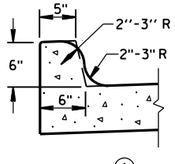
TYPES A (1) & D



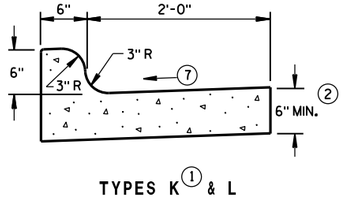
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

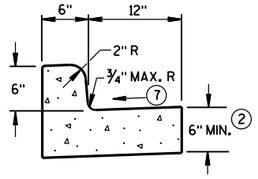


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



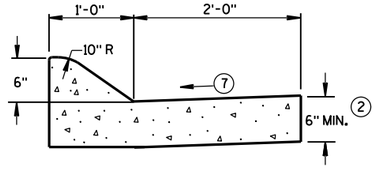
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

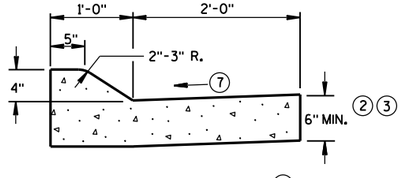


TYPES A (1) & D

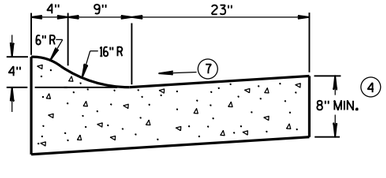
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

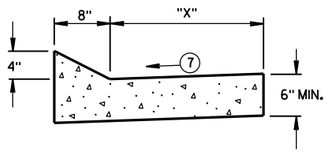


4" SLOPED CURB TYPES A (1) & D



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.

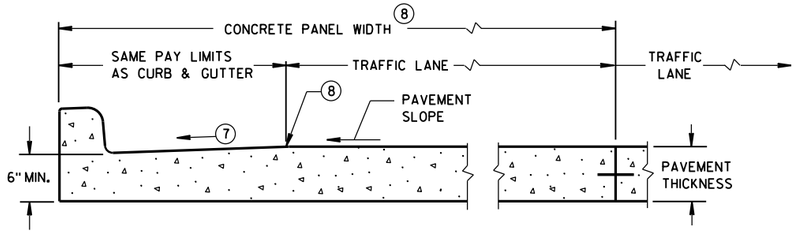
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(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.

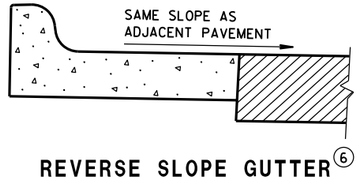
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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.

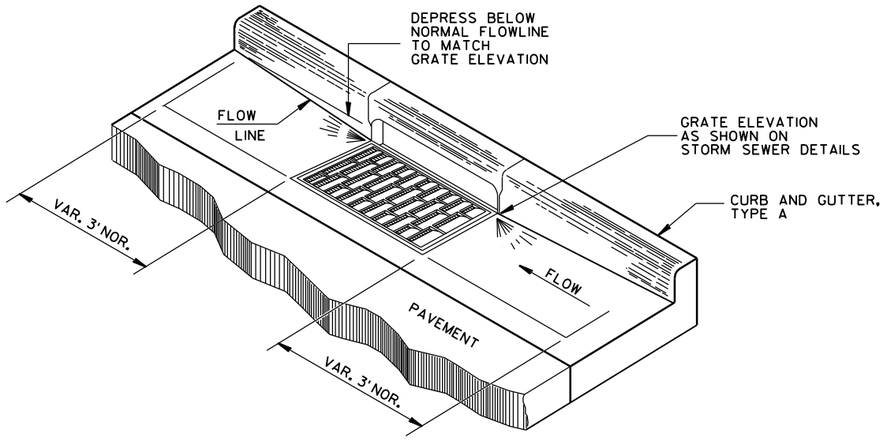


REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

CONCRETE CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 8 D 1-20a



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.

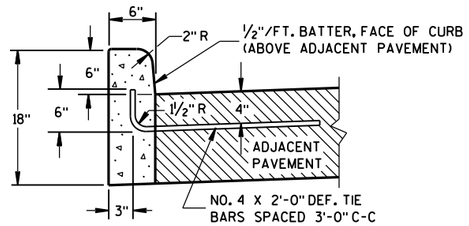
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

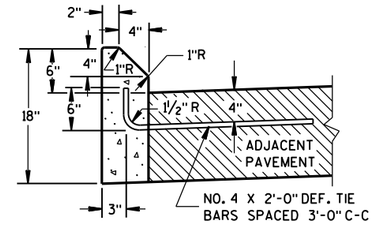
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(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.

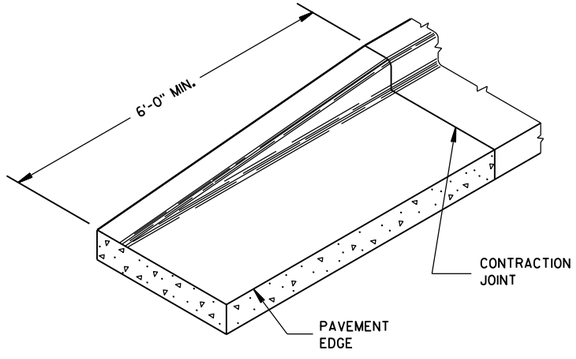


TYPES A (1) & D

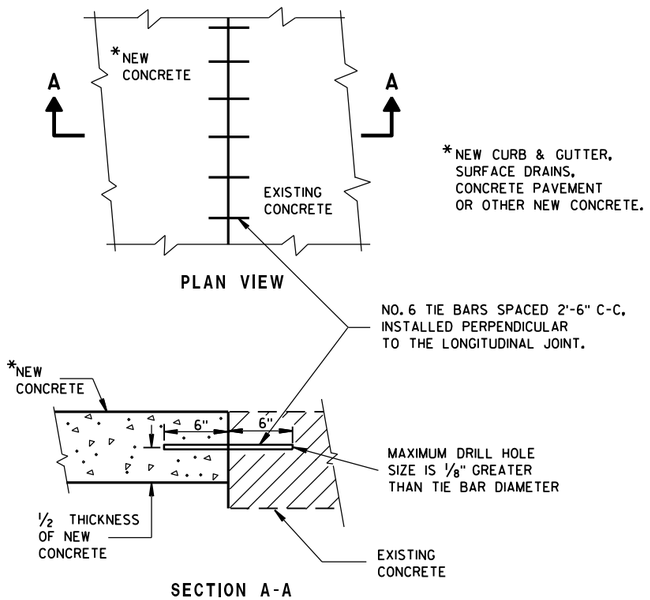


TYPES G (1) & J

CONCRETE CURB



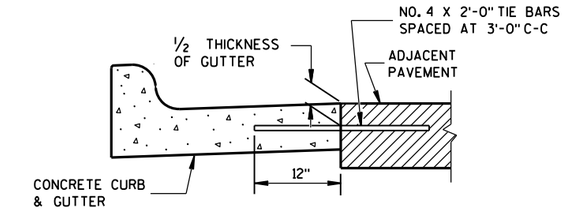
END SECTION CURB & GUTTER



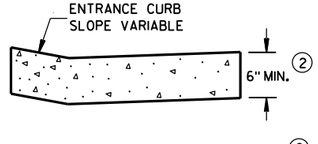
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

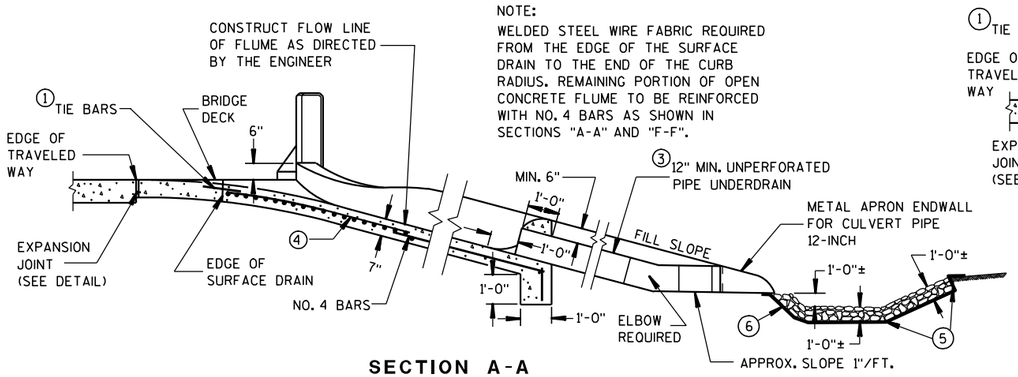
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

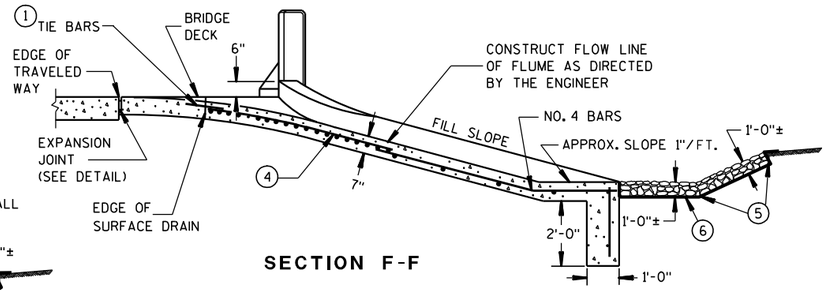
APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
175
ENT
FHWA

6

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



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.

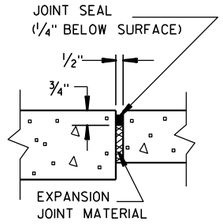
(4) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C-C.

(5) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

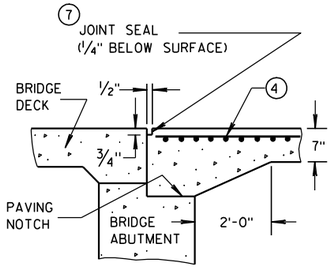
(6) GEOTEXTILE FABRIC, TYPE 'R"

(7) HOT POURED SEALANT UNLESS OTHERWISE SPECIFIED.

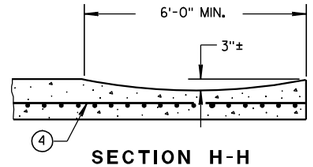
(8) THIS DIMENSION MAY VARY DEPENDING ON THE SPACING OF POSTS FOR THE STEEL PLATE BEAM GUARD. THE TYPICAL LOCATION FOR THE SURFACE DRAIN IS WHERE THE POST SPACING WIDENS TO 3'-1½".



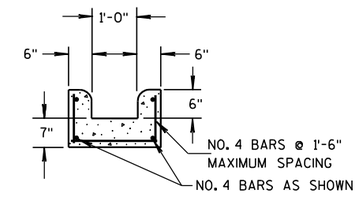
EXPANSION JOINT DETAIL



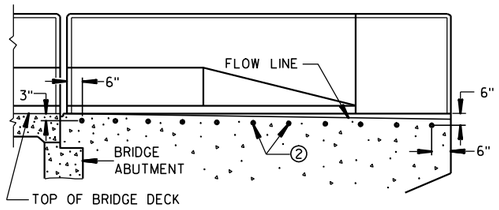
SECTION D-D



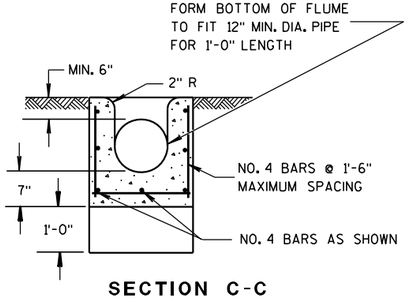
SECTION H-H



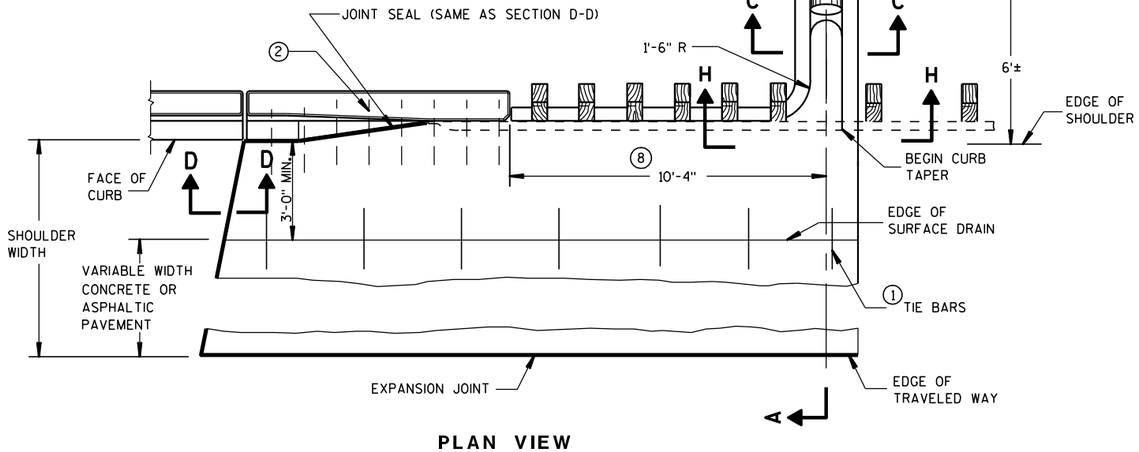
SECTION E-E



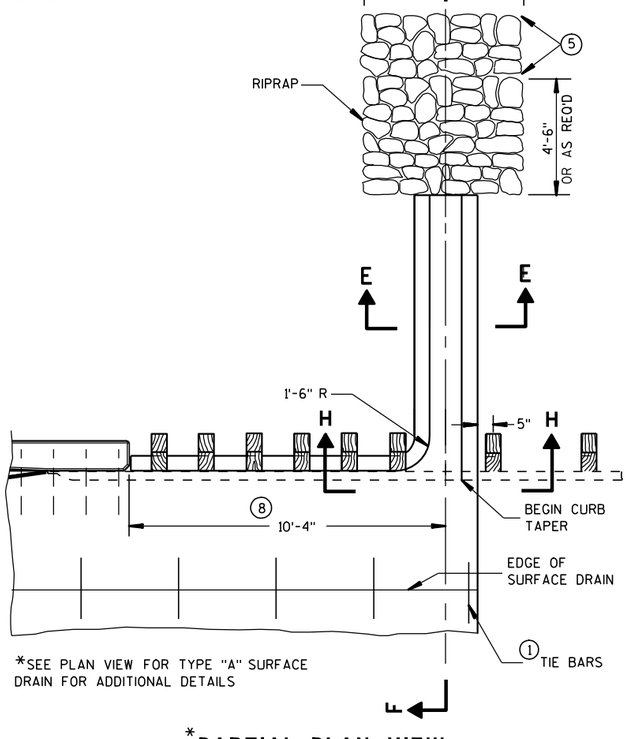
LOCATION OF TIE BARS IN WINGWALL



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
176
FHWA

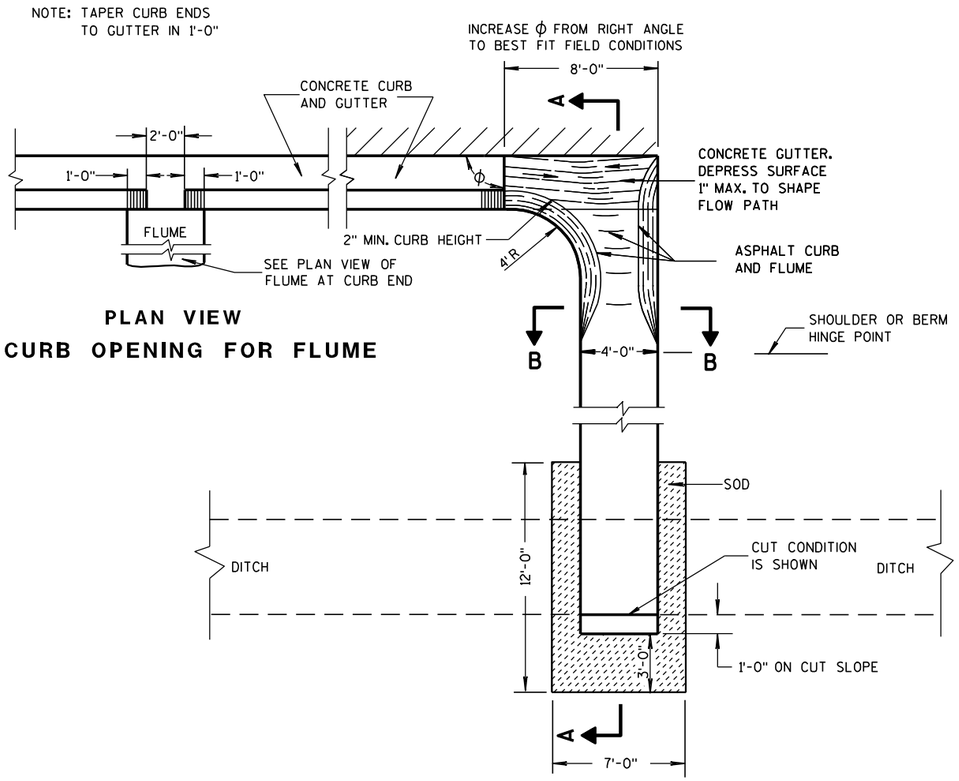
6

S.D.D. 8 D 2-6

6

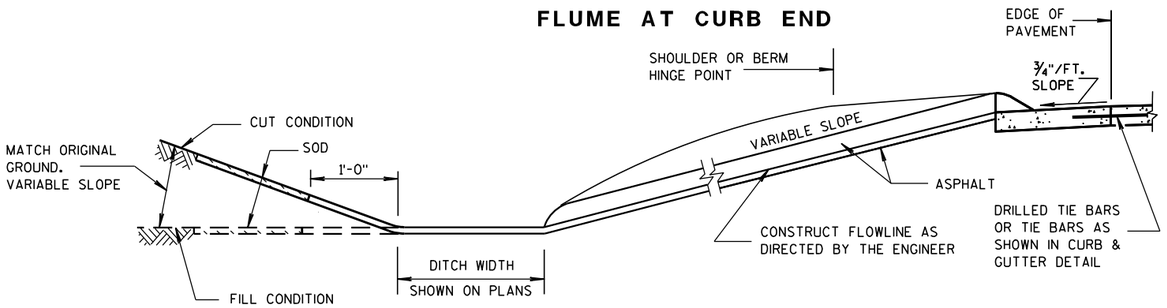
S.D.D. 8 D 2-6

ASPHALTIC FLUME

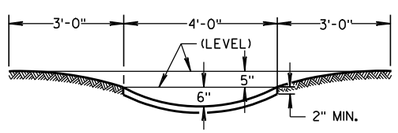


PLAN VIEW
CURB OPENING FOR FLUME

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.

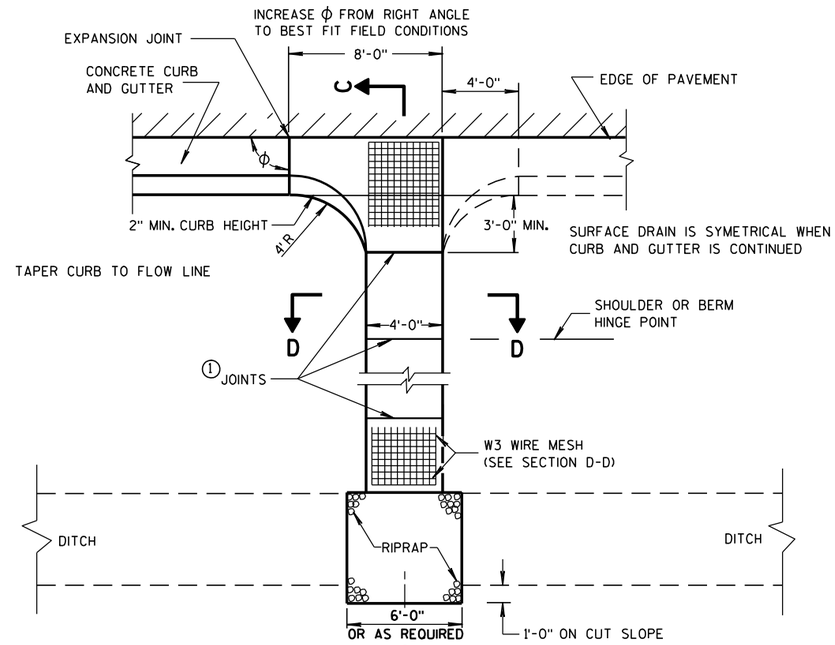
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

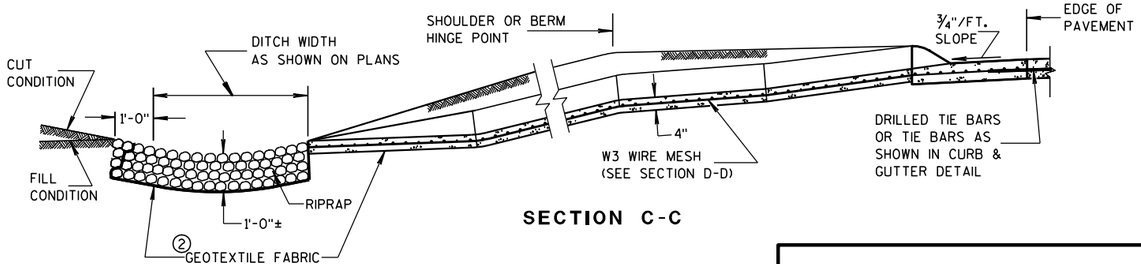
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

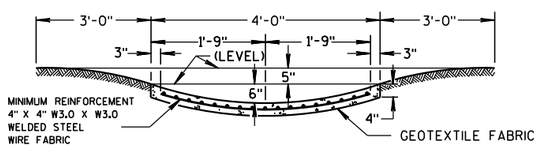
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

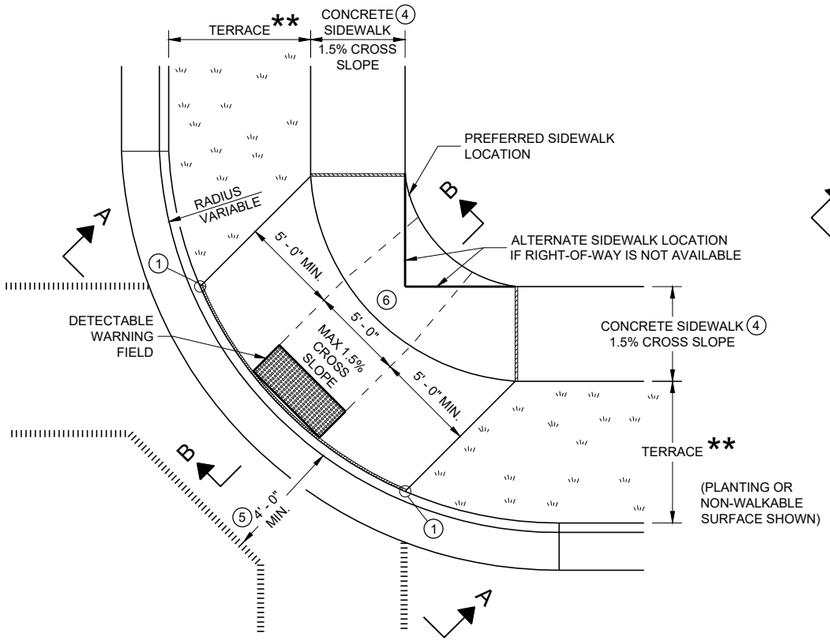
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
MENT
FHWA

6

S.D.D. 8 D 4-5

6

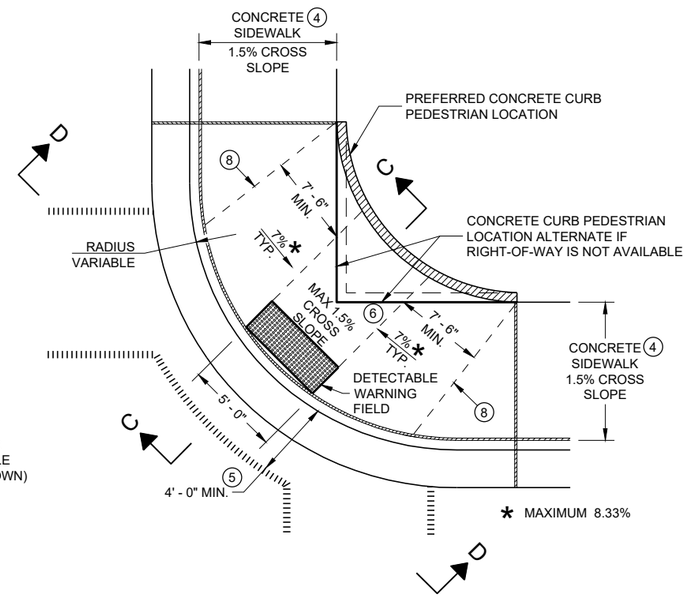
S.D.D. 8 D 4-5



PLAN VIEW

CURB RAMP TYPE 1

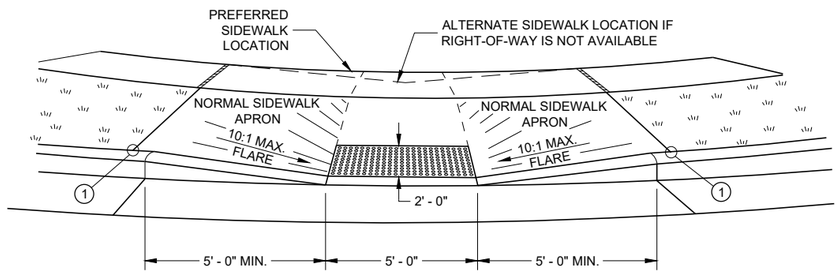
(CENTER OF CORNER RADIUS)



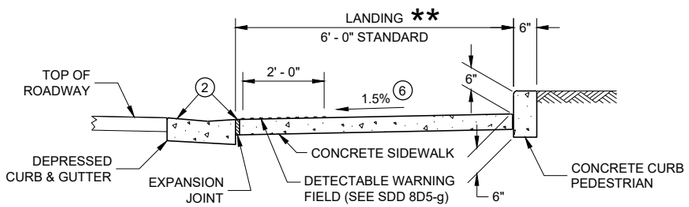
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

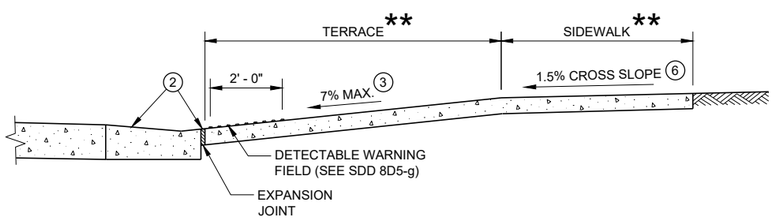


VIEW A - A FOR TYPE 1

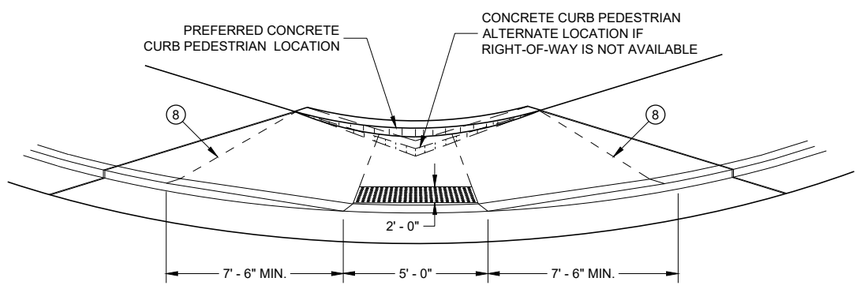


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

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.

LEGEND

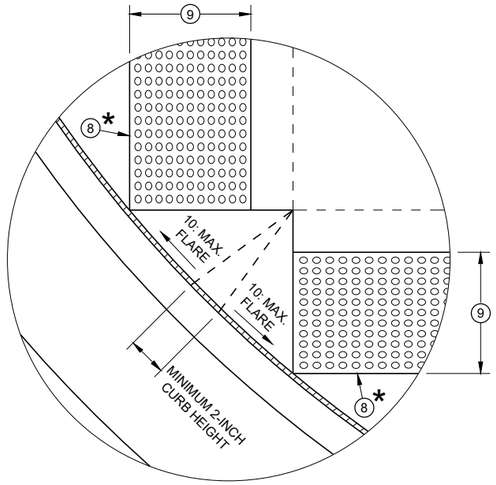
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 1 AND 1-A

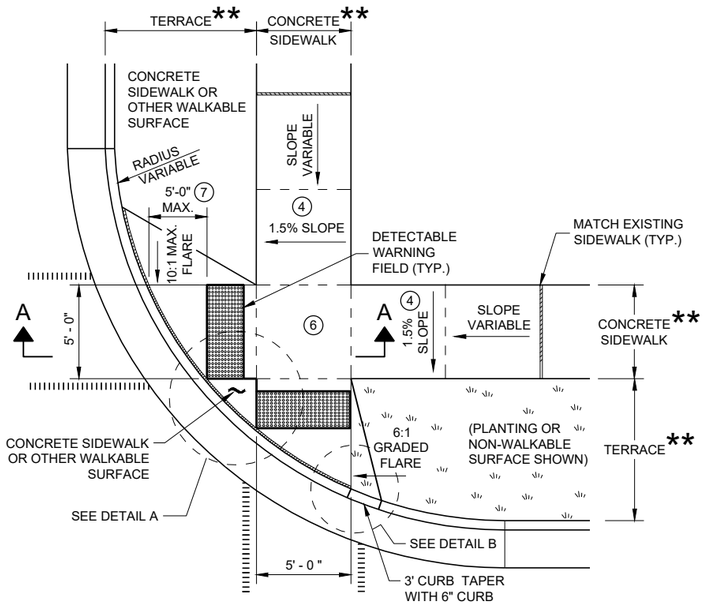
STATE OF WISCONSIN
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DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

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.

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 (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

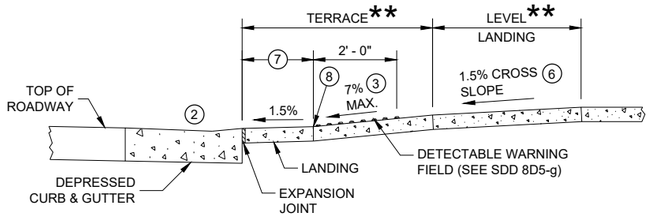
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

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

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

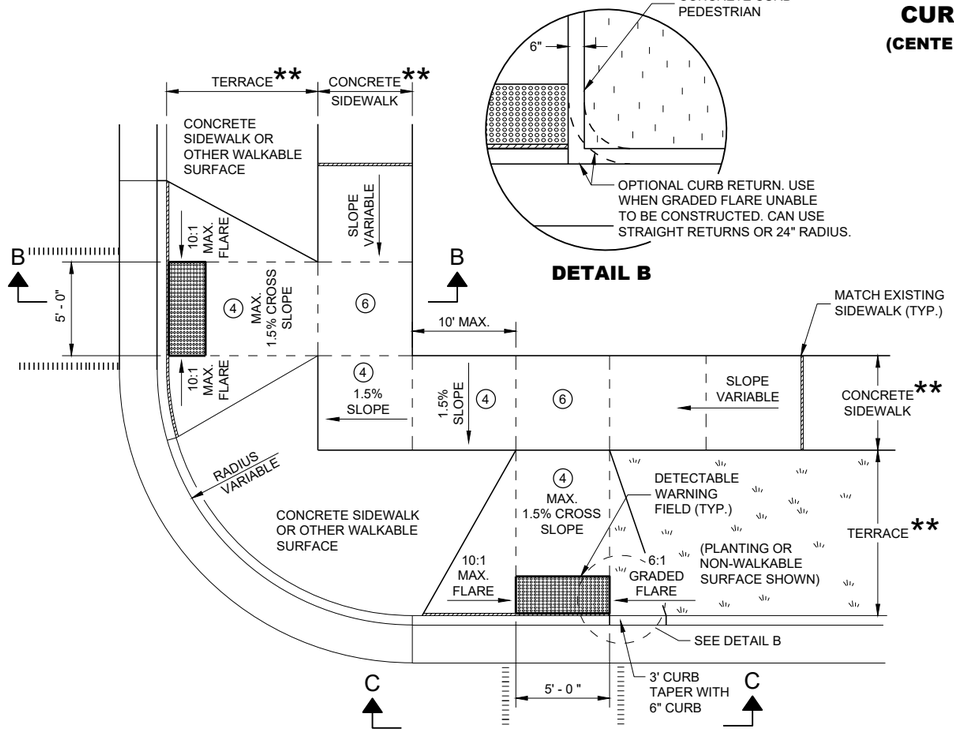
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

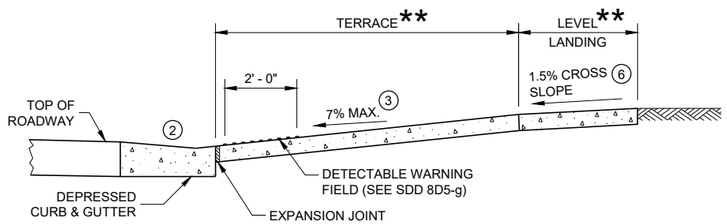
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS



DETAIL B

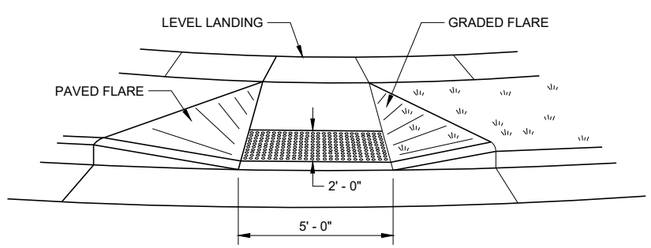
PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3

LEGEND

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



VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

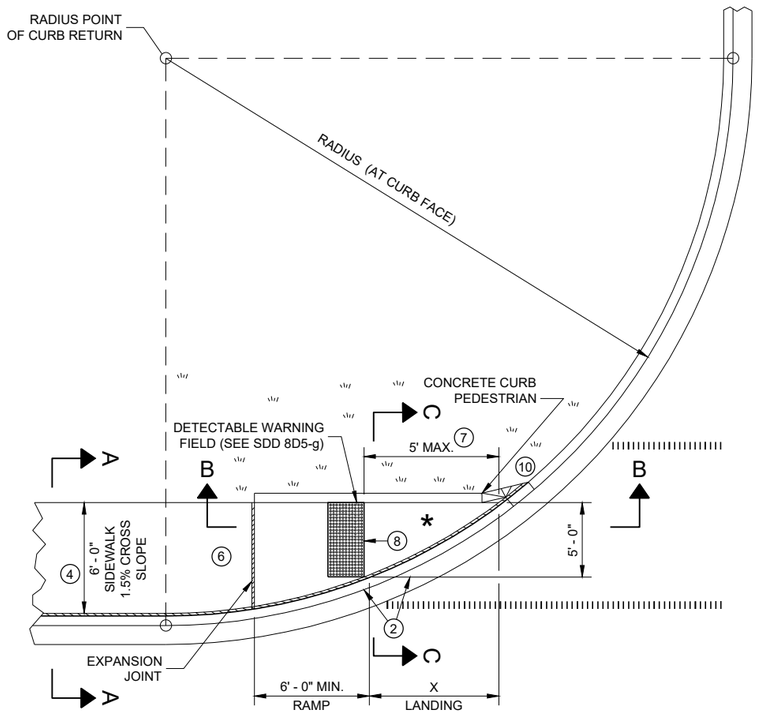
STATE OF WISCONSIN
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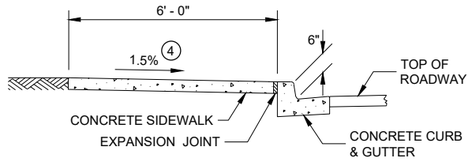


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

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.

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.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

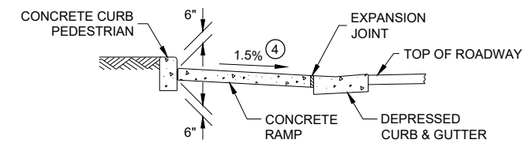
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

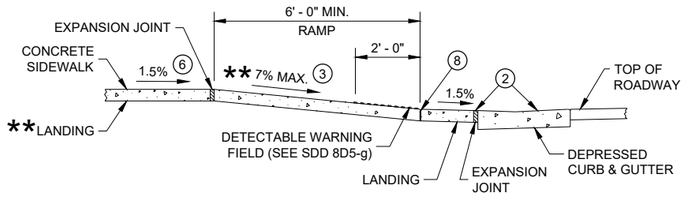
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



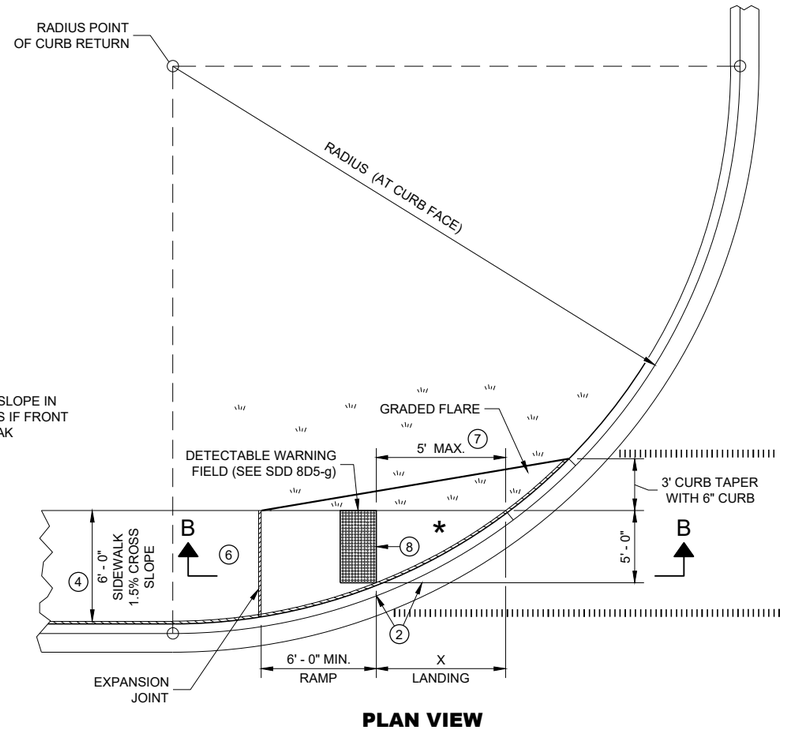
SECTION C - C FOR TYPE 4A



SECTION B - B FOR TYPE 4A AND TYPE 4A1

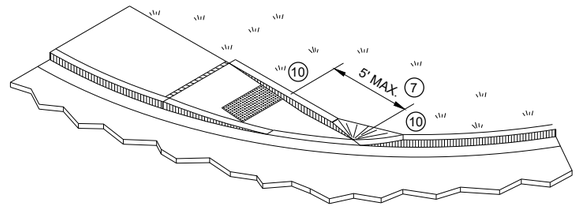
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

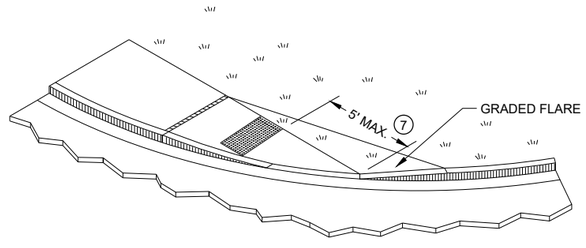


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



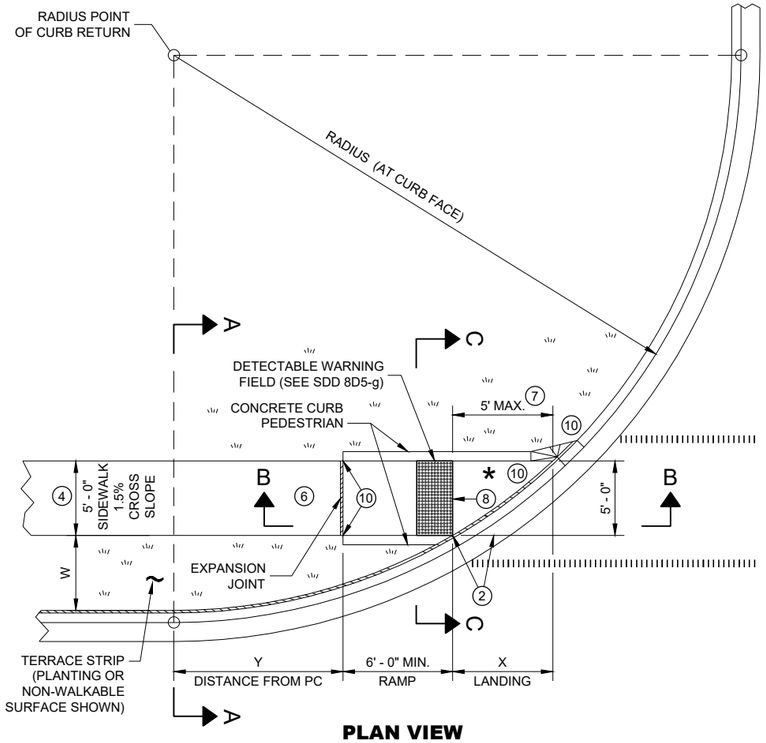
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
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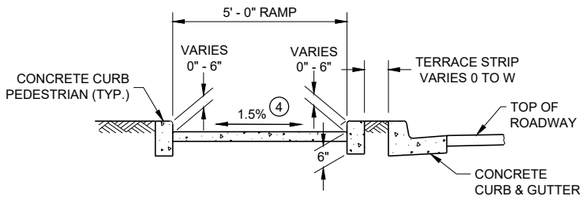


PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C - C FOR TYPE 4B

LEGEND

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

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.

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.

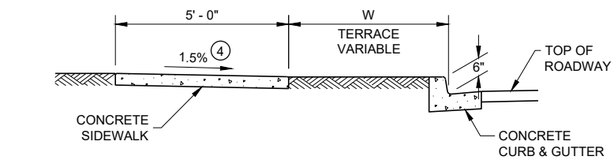
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

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

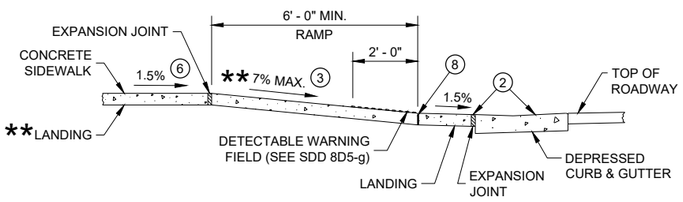
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

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



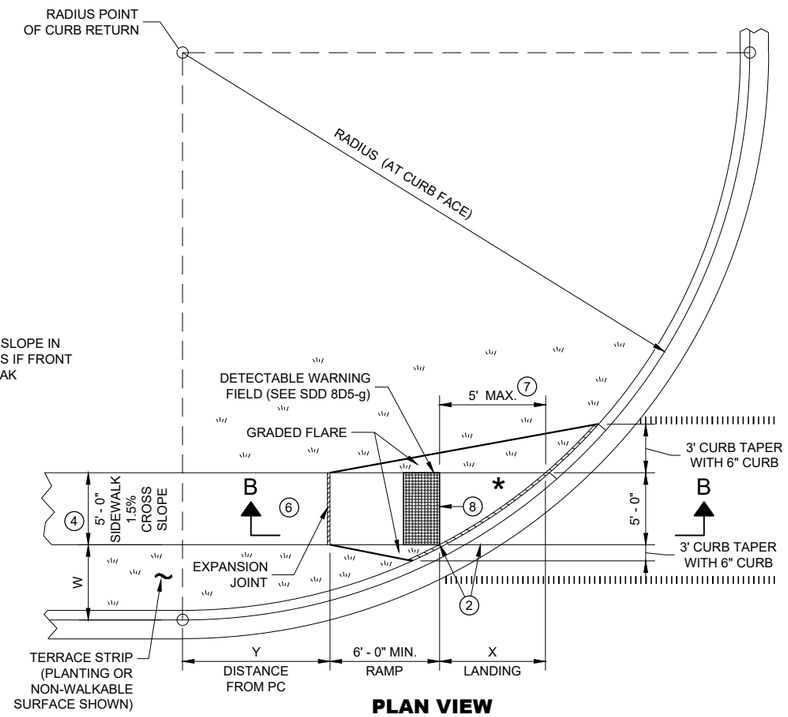
SECTION A - A FOR TYPE 4B



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

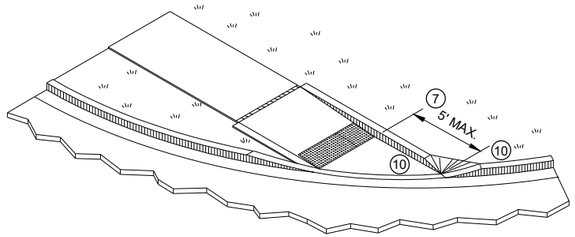
SECTION B - B FOR TYPE 4B AND TYPE 4B1

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

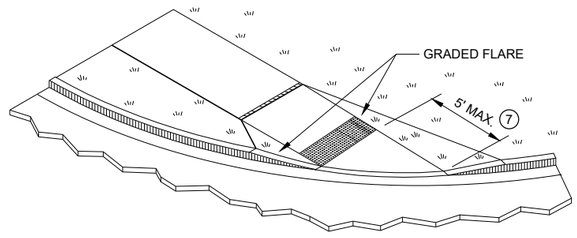


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



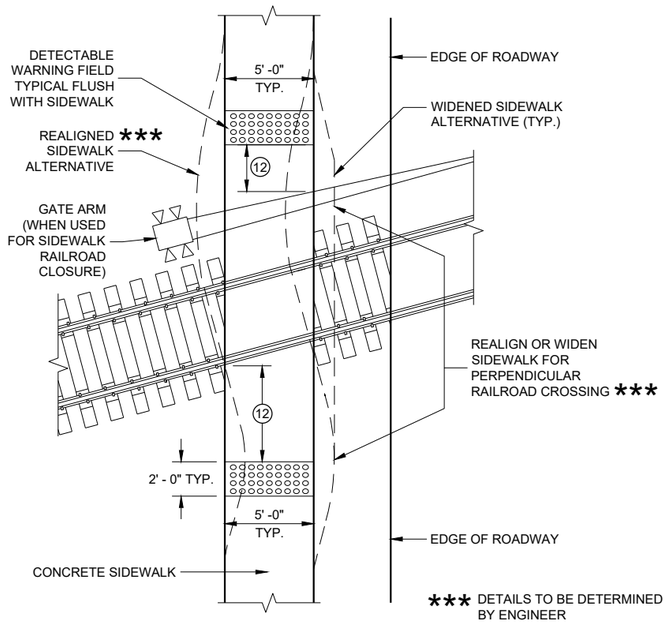
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

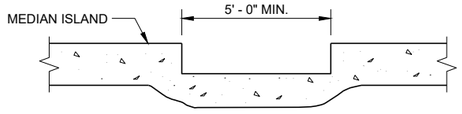
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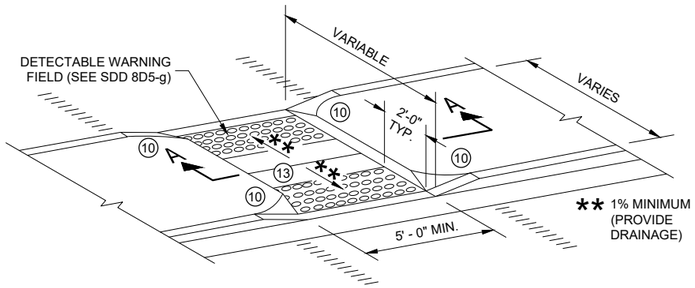


CURB RAMP TYPE 8

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 ½ - 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.

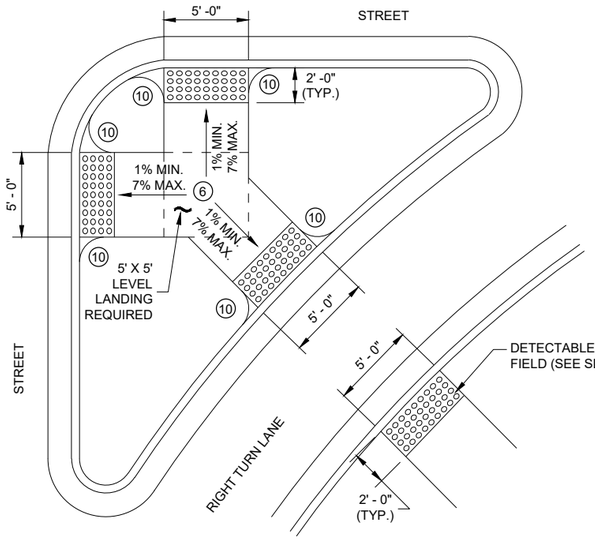
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(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

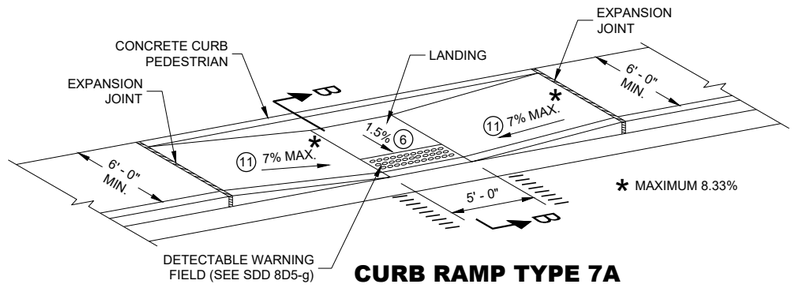
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

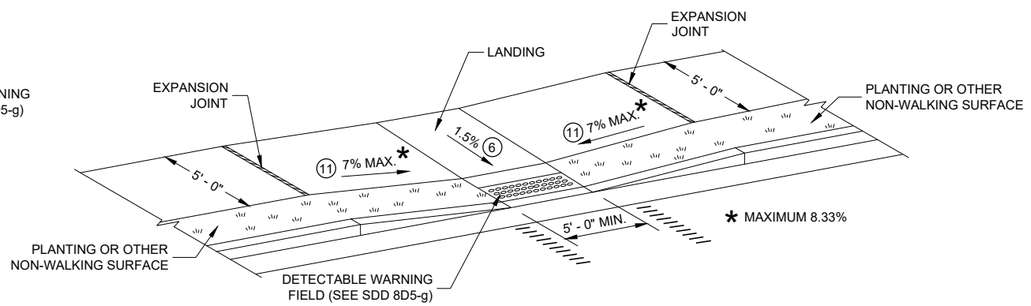
DETECTABLE WARNING AT ISLANDS

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



CURB RAMP TYPE 7A

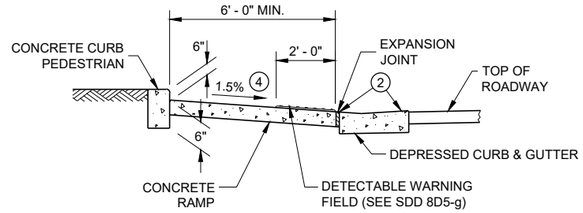
MID BLOCK CROSSING



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

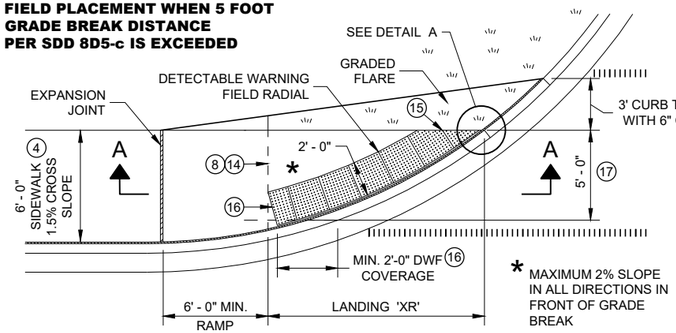
CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D05 - 20e

SDD 08D05 - 20e

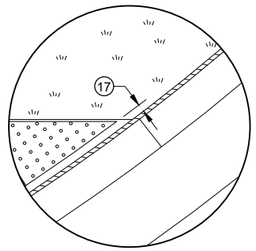
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



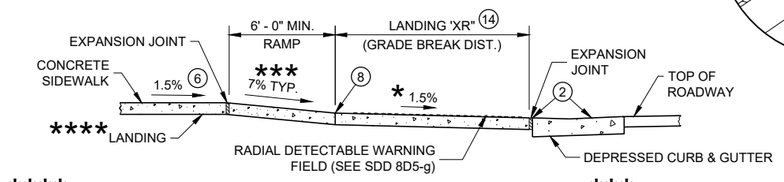
PLAN VIEW

CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL A



SECTION A - A FOR TYPE 4A1

LEGEND

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

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.

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

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(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 LANDING SIZE IS 5 FEET BY 5 FEET.

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

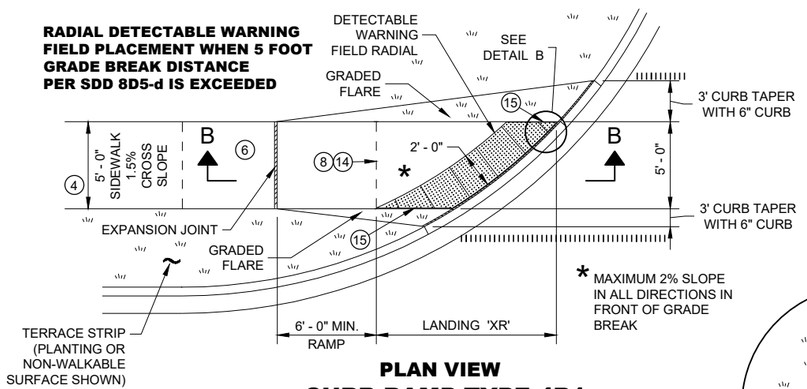
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

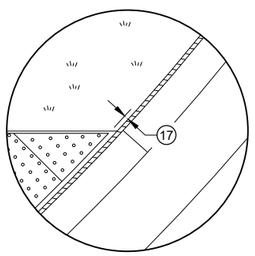
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



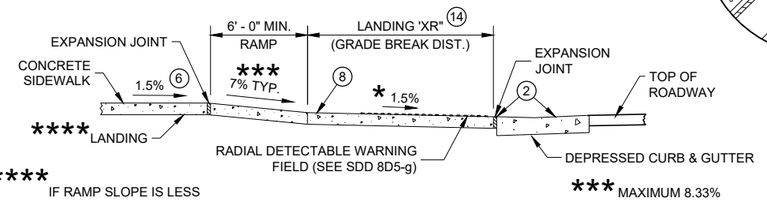
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

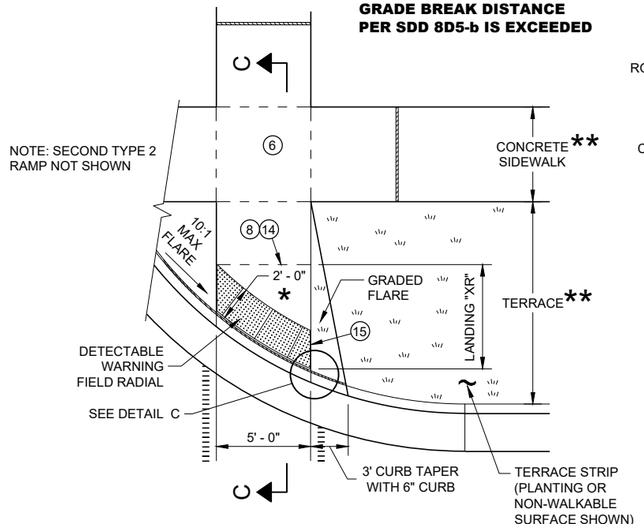


DETAIL B



SECTION B - B FOR TYPE 4B1

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

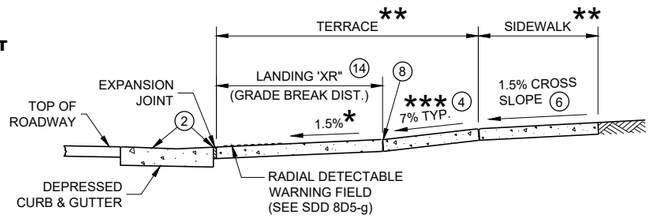


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

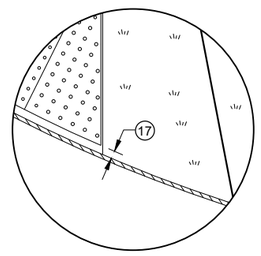


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

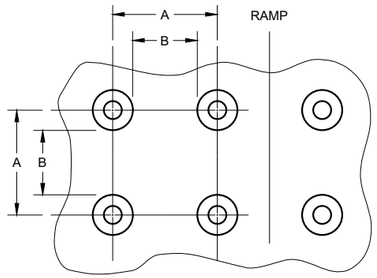
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D05 - 20f

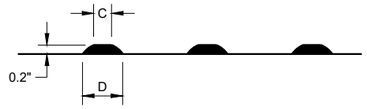
SDD 08D05 - 20f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

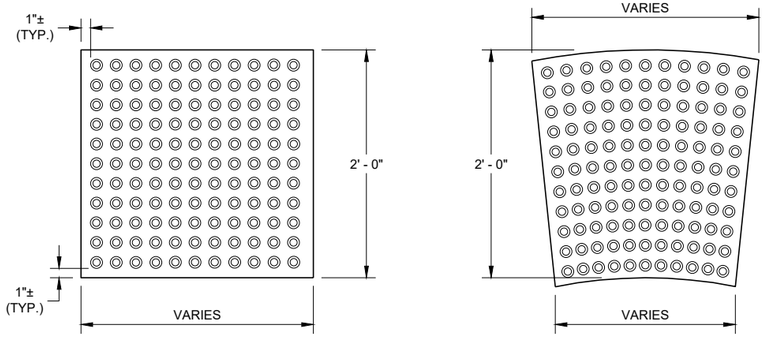


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

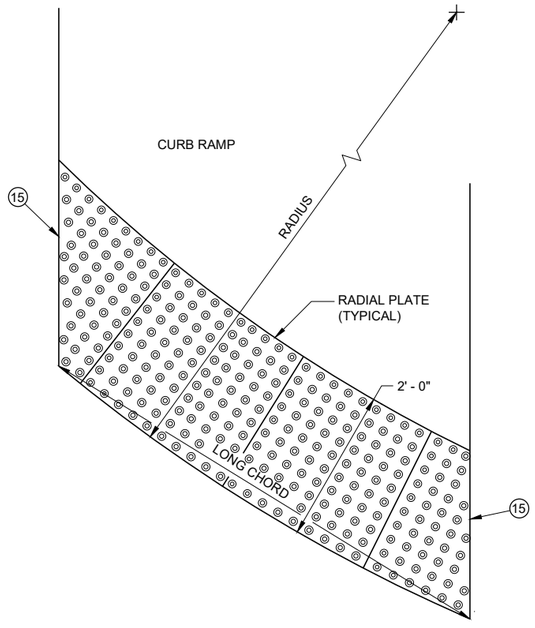
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

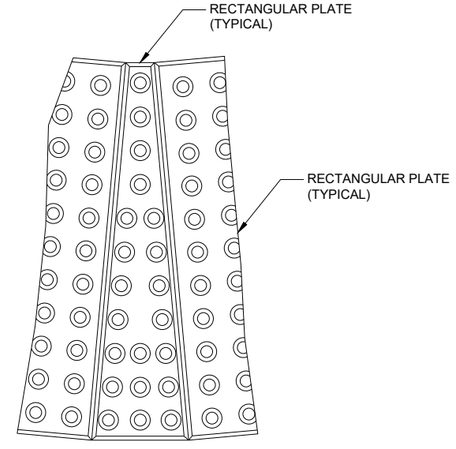
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

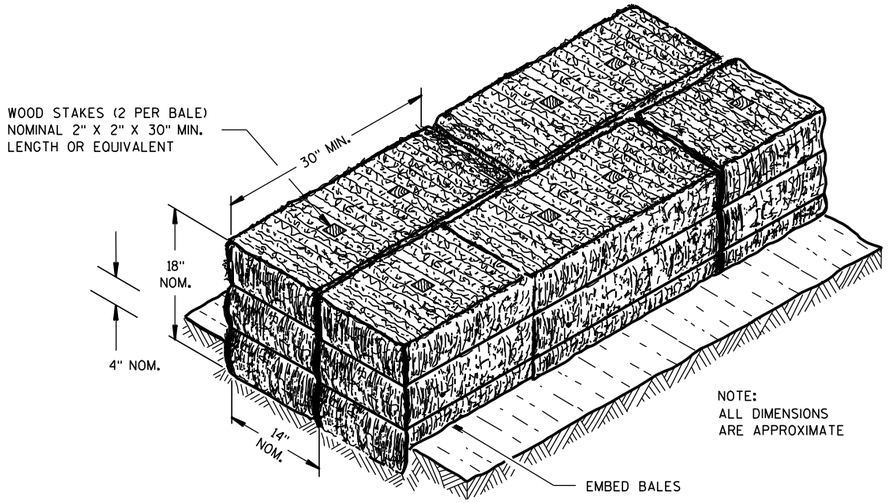
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE UNIT SUPERVISOR

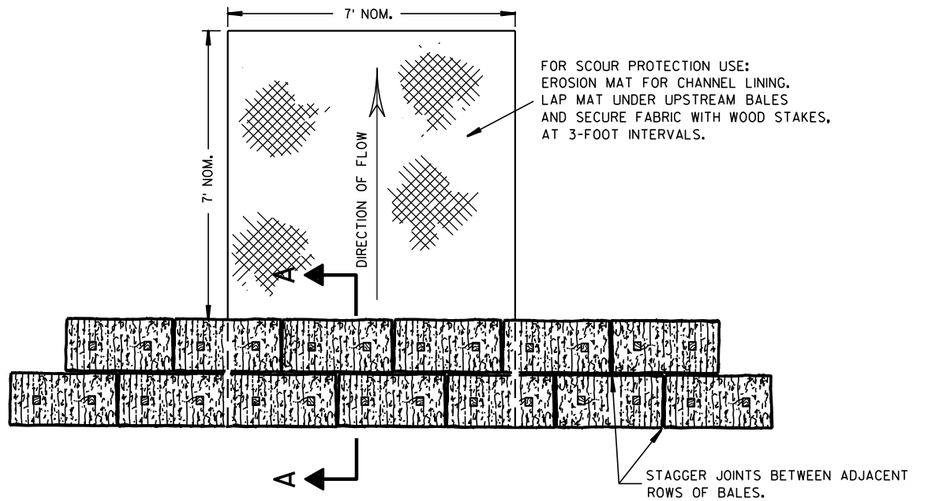
FHWA

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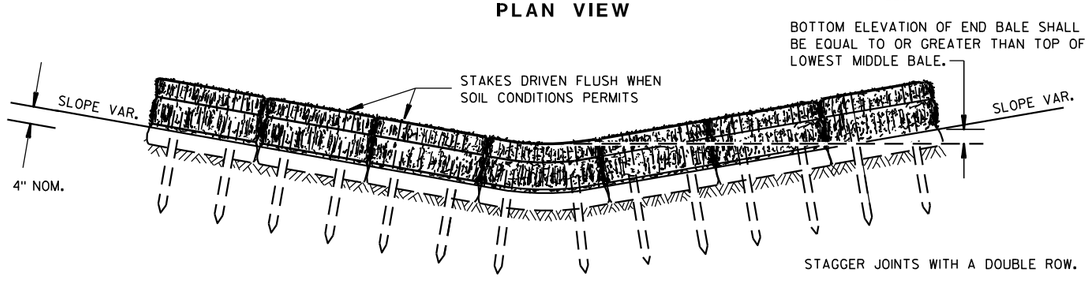
SDD 08D05 - 20g



SECTION A-A



PLAN VIEW



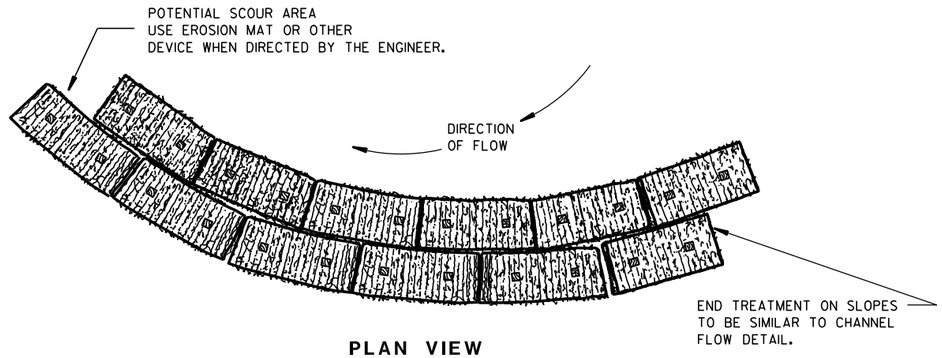
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

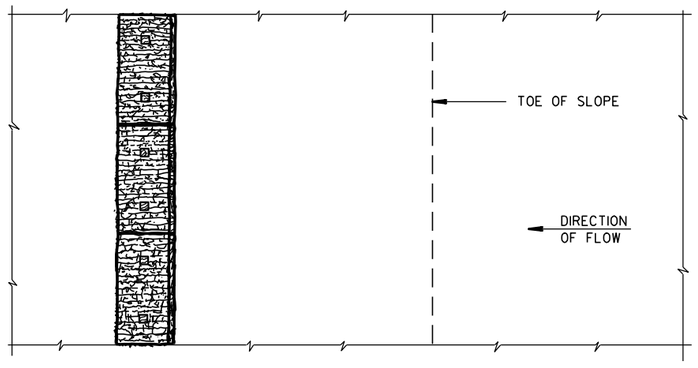
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

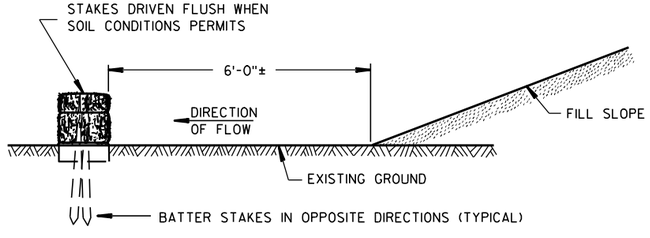


PLAN VIEW

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

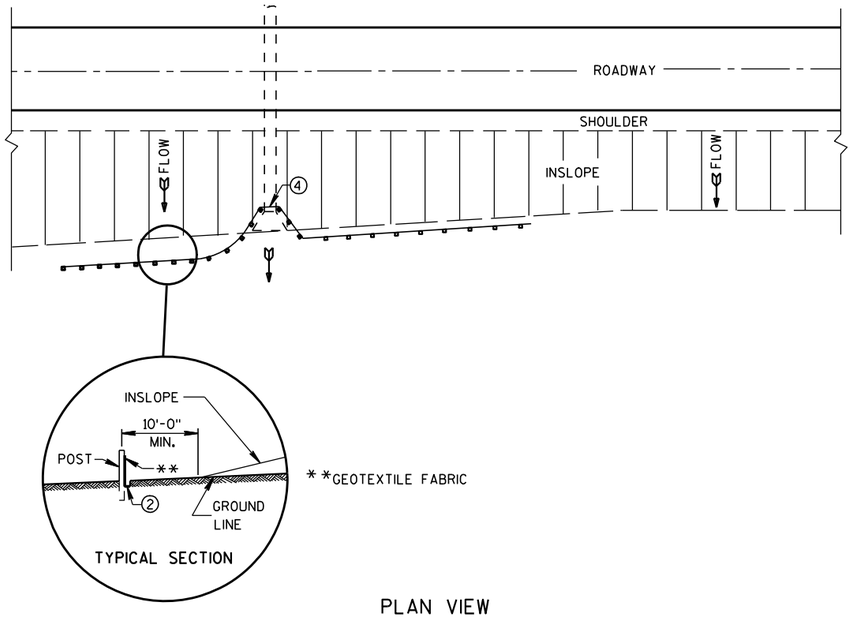
FHWA

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S.D.D. 8 E 8-3

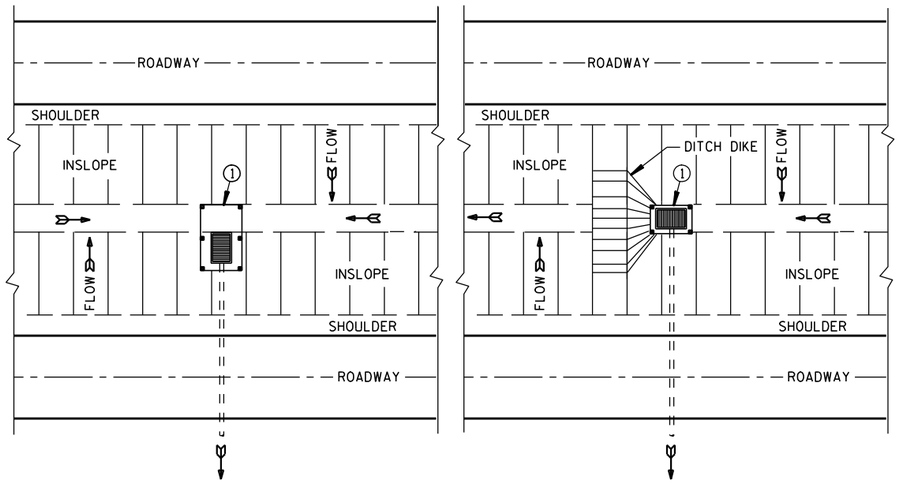
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



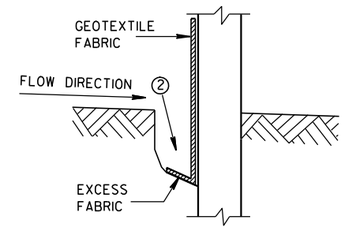
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

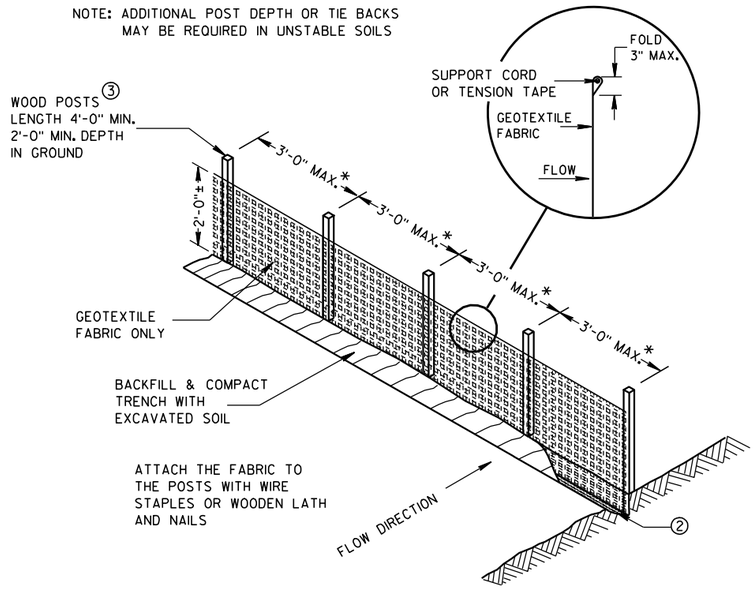
GENERAL NOTES

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

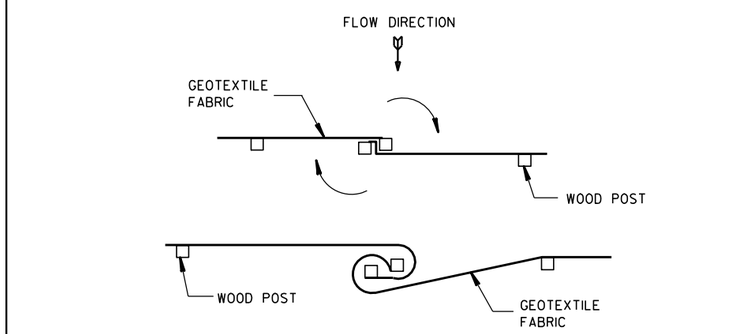
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



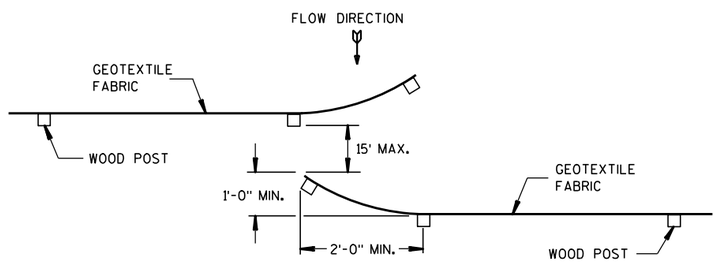
TRENCH DETAIL



SILT FENCE

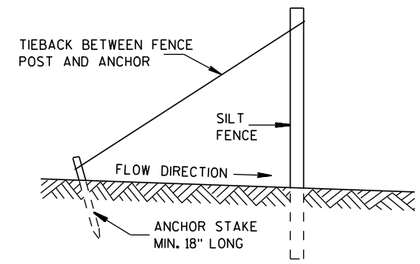


TWIST METHOD



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

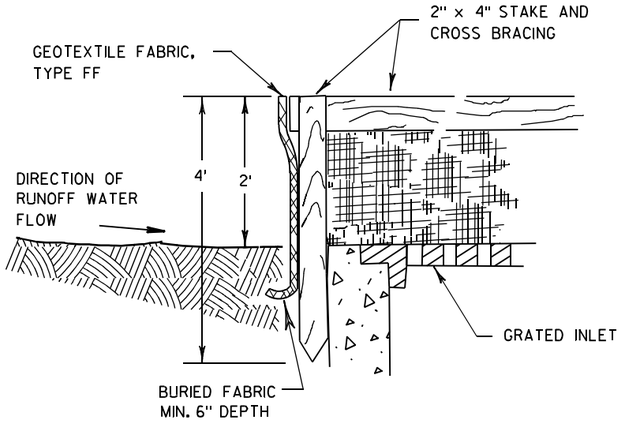
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

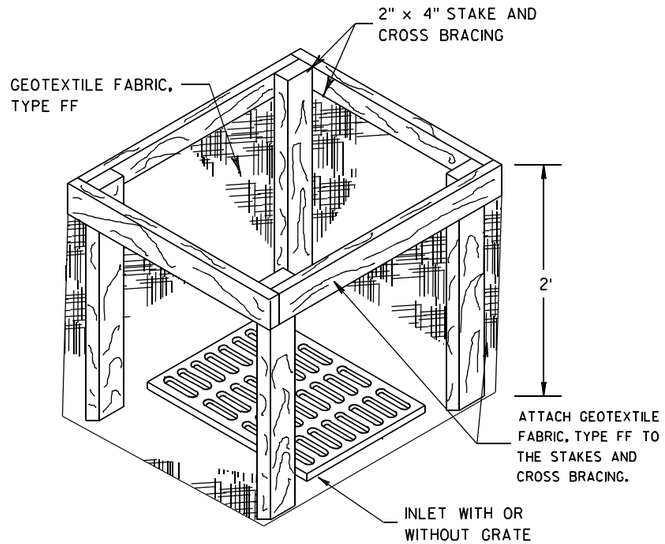
6

S.D.D. 8 E 9-6

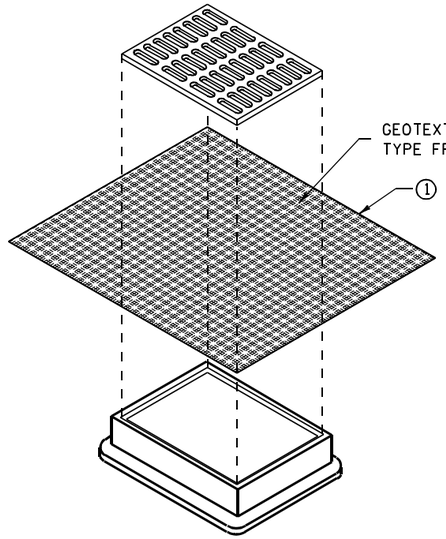
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S.D.D. 8 E 9-6



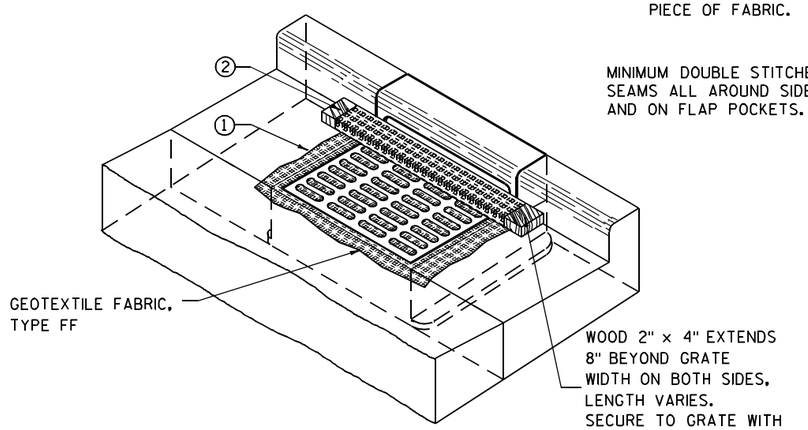


INLET PROTECTION, TYPE A

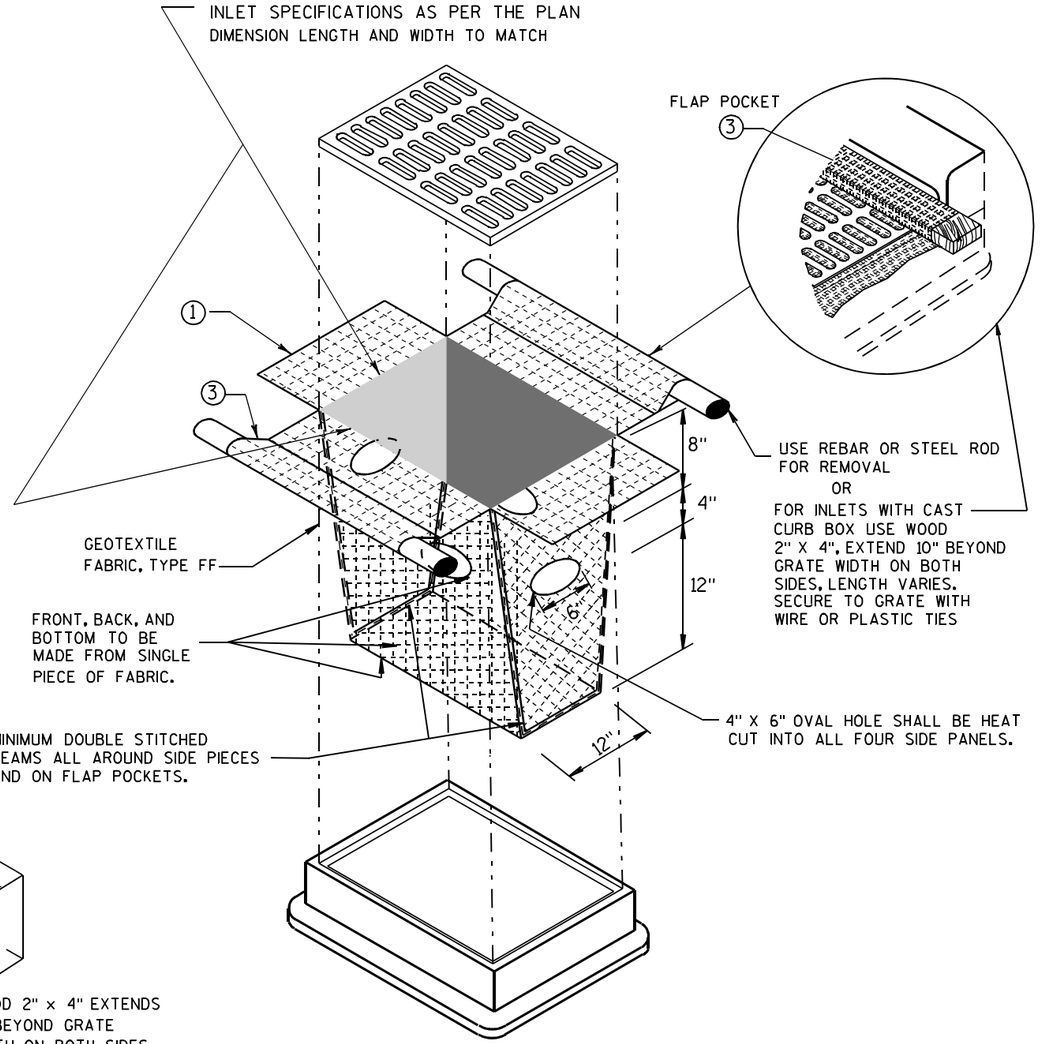


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

GENERAL NOTES

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

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

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

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

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

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

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

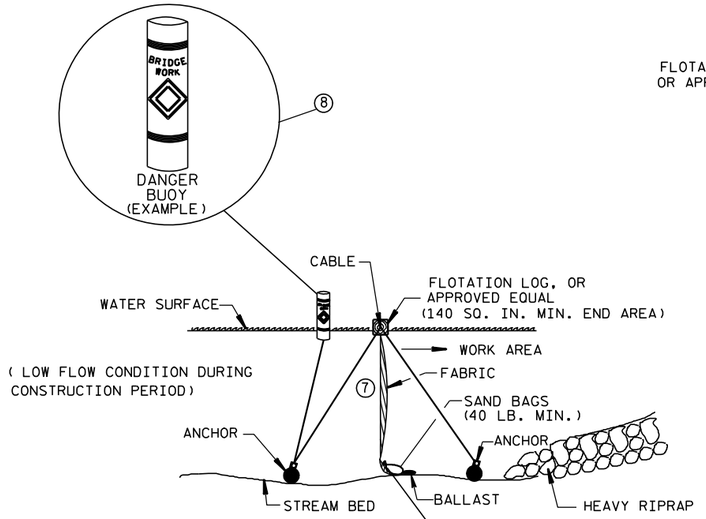
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE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

INLET PROTECTION
TYPE A, B, C, AND D

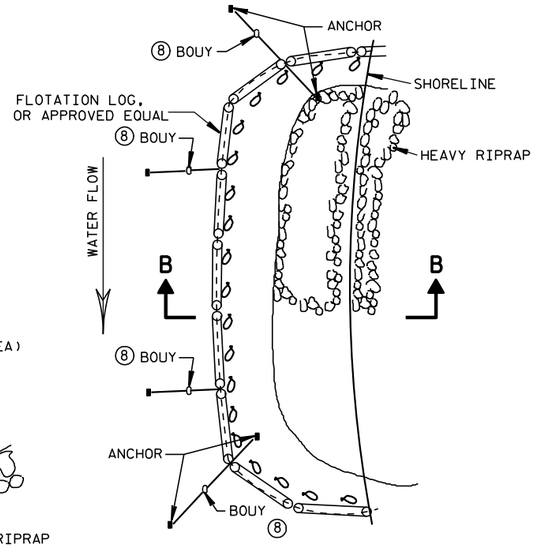
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

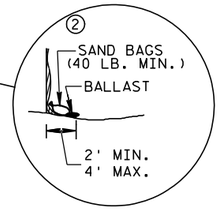
APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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

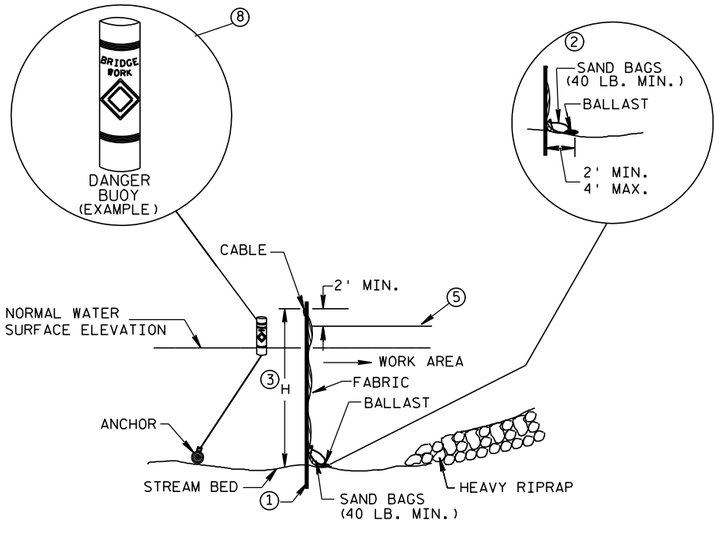


SECTION B-B

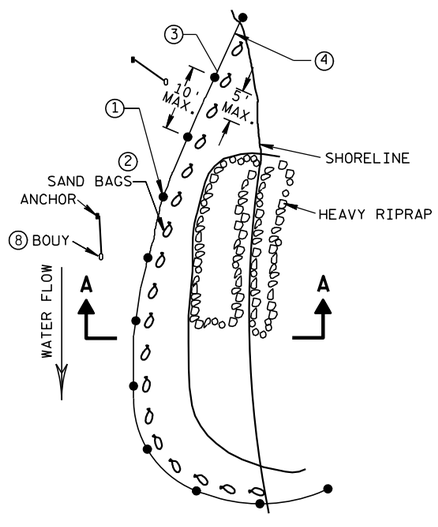




TURBIDITY BARRIER FLOAT ALTERNATIVE
CAUTION - SEE NOTE 6



SECTION A-A



PLAN VIEW

TURBIDITY BARRIER STANDARD POST INSTALLATION

TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

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

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.

② SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.

③ WHEN BARRIER HEIGHT, H, EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.

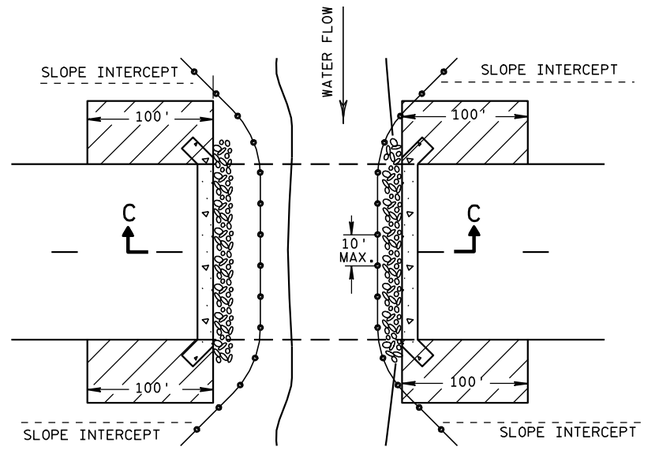
④ IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.

⑤ ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE O2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.

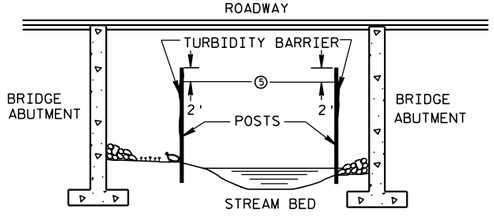
⑥ FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.

⑦ ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.

⑧ USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

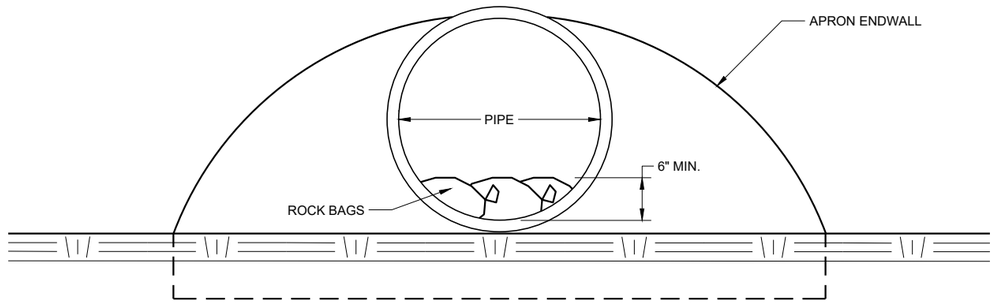
APPROVED
6/04/02 DATE
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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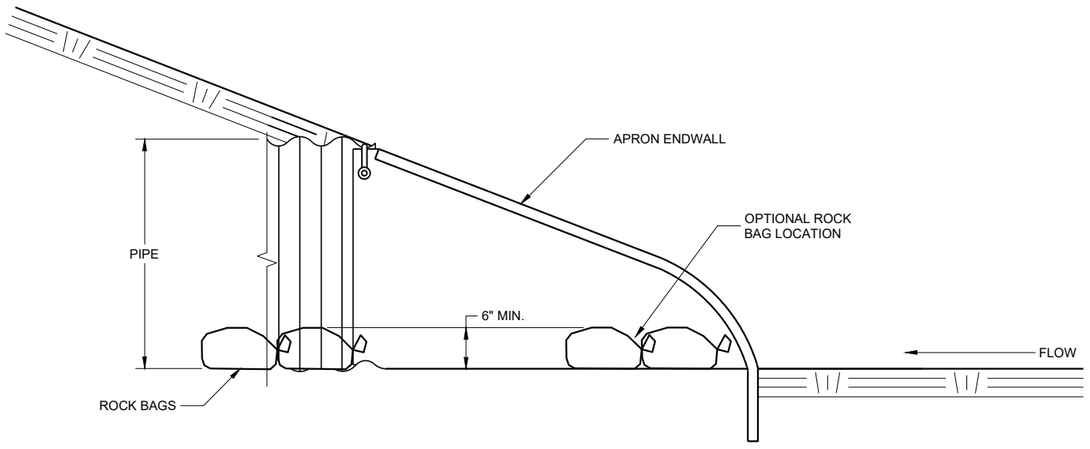
S.D.D. 8 E 11-2

6

S.D.D. 8 E 11-2



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Daniel Schave
EROSION CONTROL ENGI

FHWA

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SDD 08E15 - 01

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SDD 08E15 - 01

METAL APRON ENDWALLS

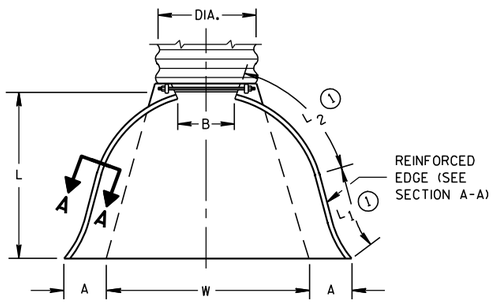
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

× EXCEPT CENTER PANEL SEE GENERAL NOTES

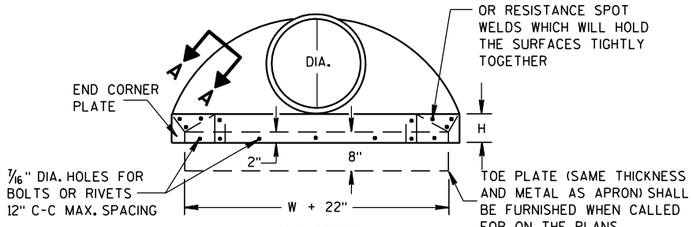
REINFORCED CONCRETE APRON ENDWALLS

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

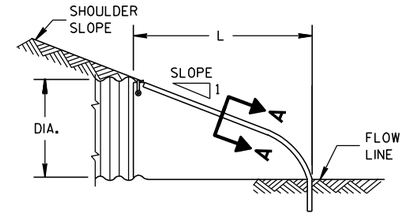
*MINIMUM
**MAXIMUM



PLAN VIEW

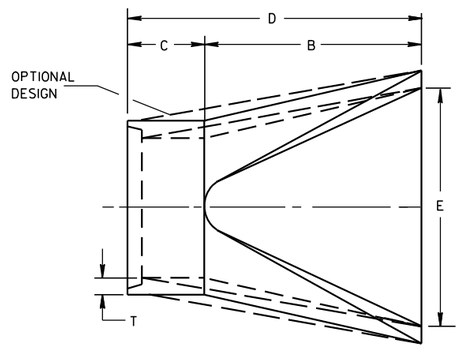


END VIEW

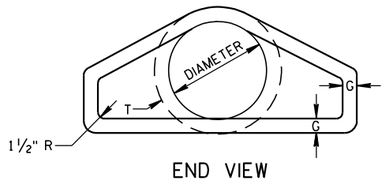


SIDE ELEVATION

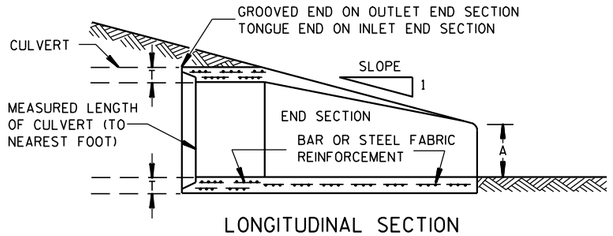
METAL ENDWALLS



PLAN

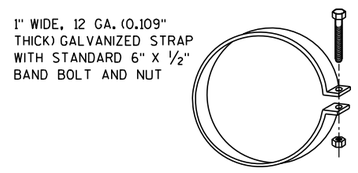


END VIEW



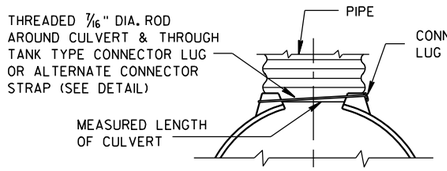
LONGITUDINAL SECTION

CONCRETE ENDWALLS

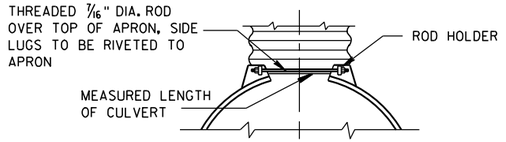


ALTERNATE FOR TYPE 1 CONNECTION

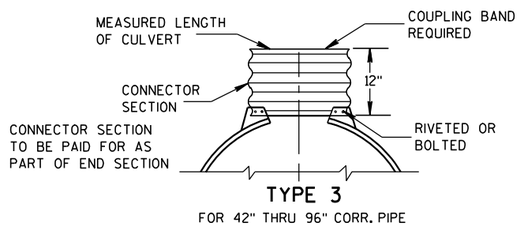
END SECTION CONNECTOR STRAP



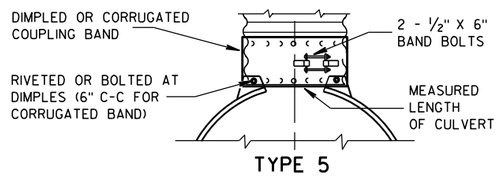
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

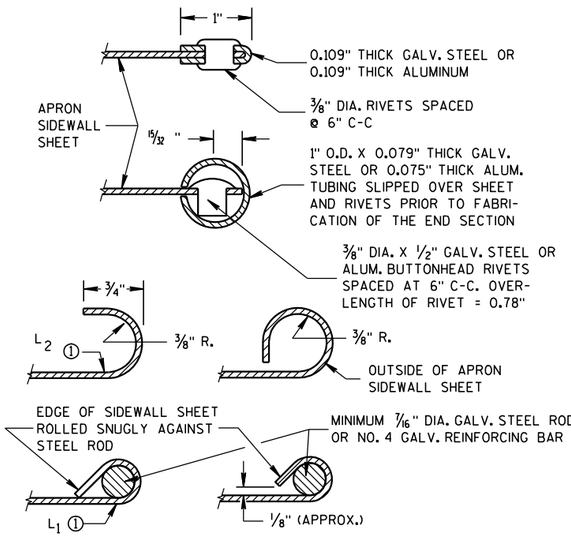
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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

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

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

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

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

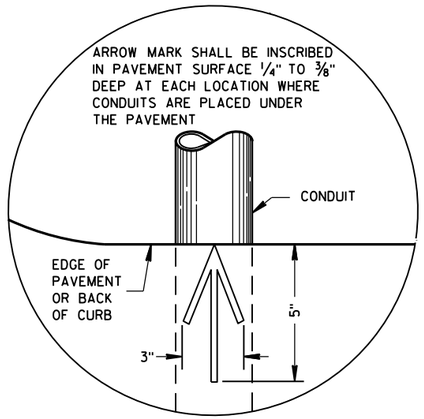
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

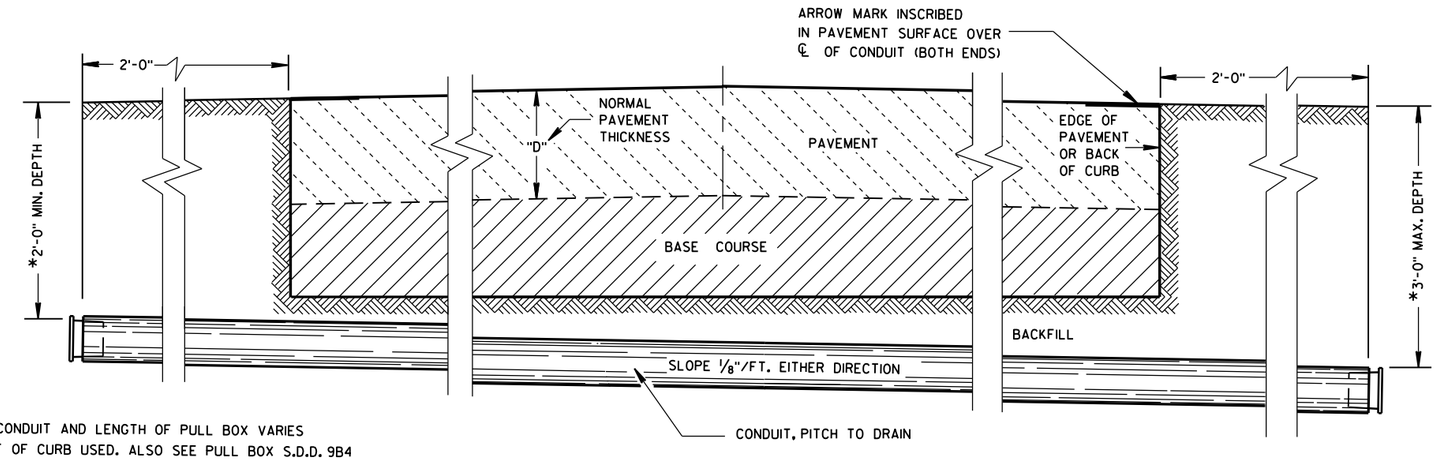
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 1-11



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

6

S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		NON-CONDUCTIVE PULL BOX	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX OVERALL OUTSIDE DIAMETER	B	27	27
BOX LENGTH	C	36	42
FRAME OPENING	D	22 1/2	22 1/2
WEIGHT IN POUNDS *			
COVER		50	50
BOX ONLY		75	85

* THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 100 LBS INDIVIDUALLY.

** DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE

GENERAL NOTES

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

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN 1/4".

COVER SHALL BE MAGNETICALLY LOCATABLE.

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

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".

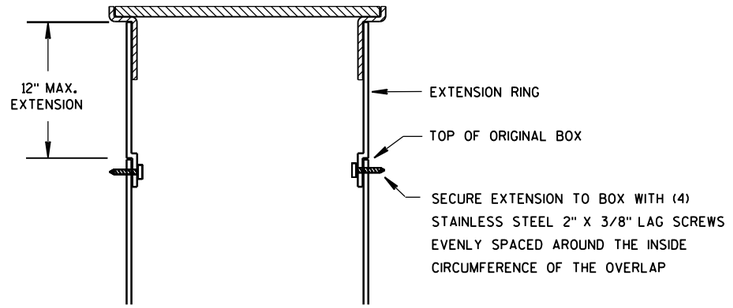
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

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

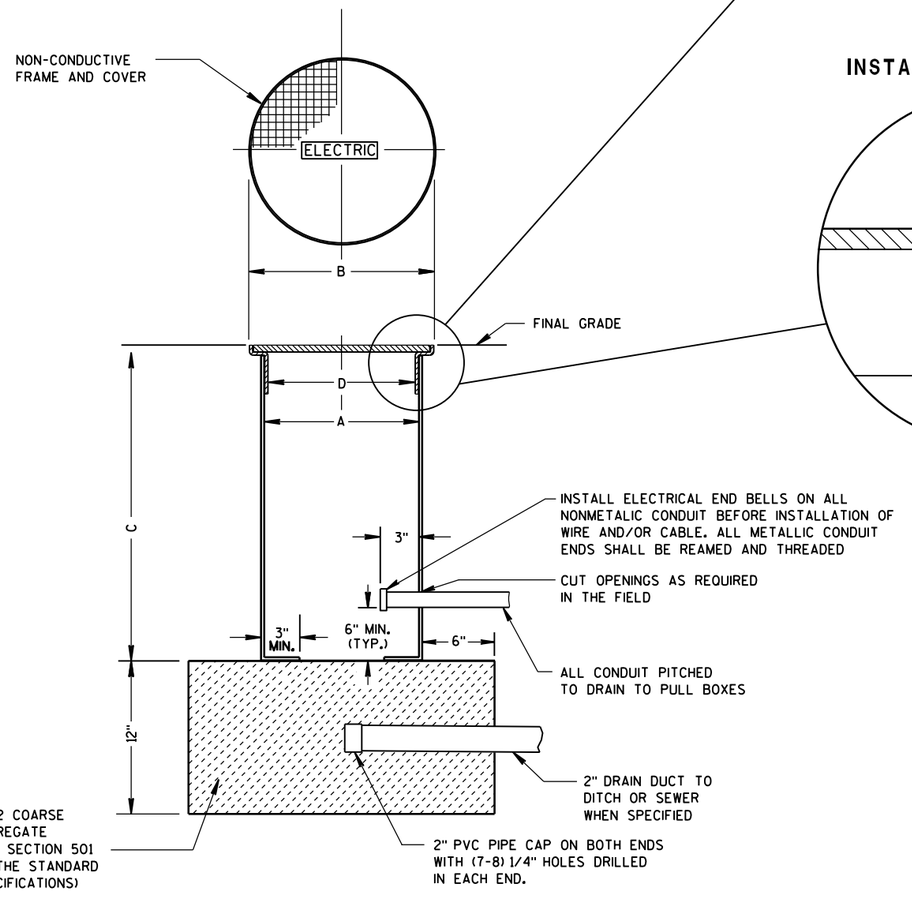
ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

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

LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.

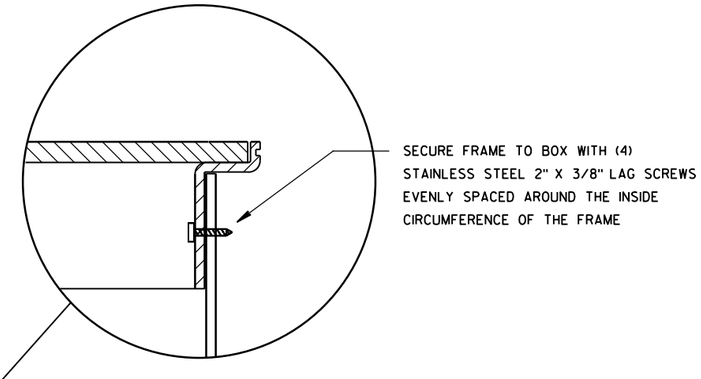


BOX EXTENSION

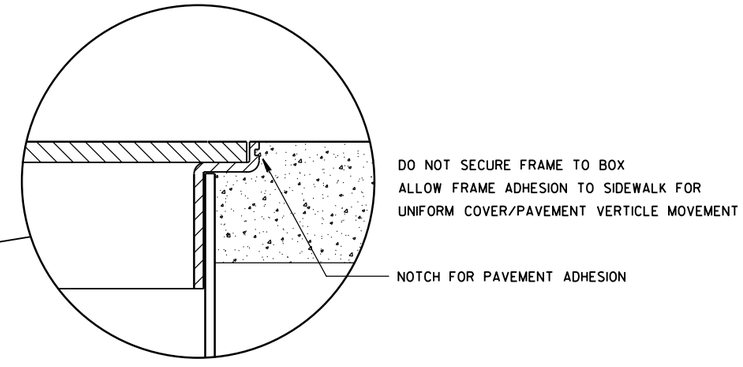


NON-CONDUCTIVE PULL BOX

INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK



PULL BOX
NON-CONDUCTIVE

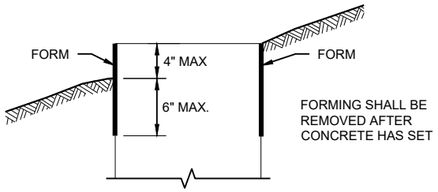
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

6

S.D.D. 9 B 16-1

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.

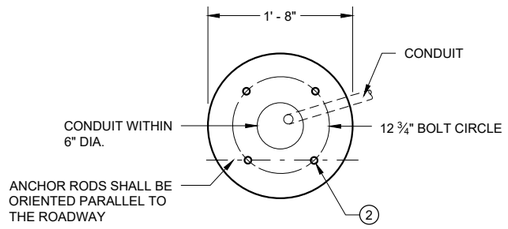
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

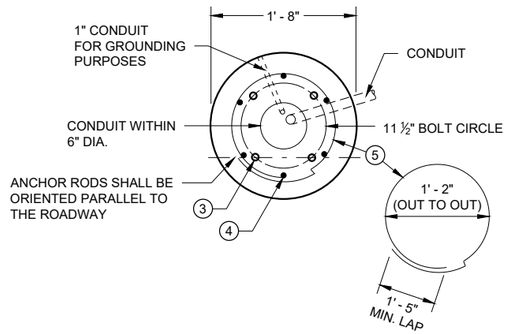
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

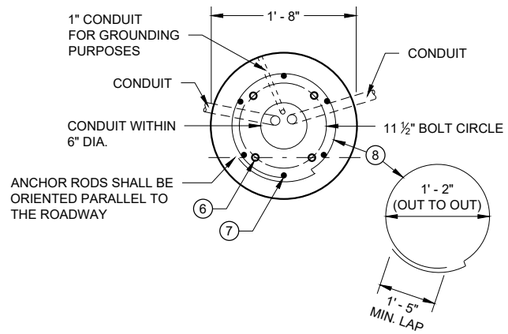
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

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

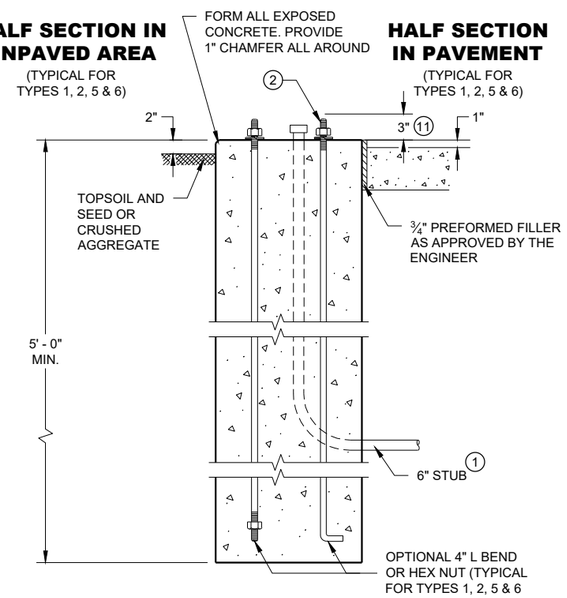
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

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.

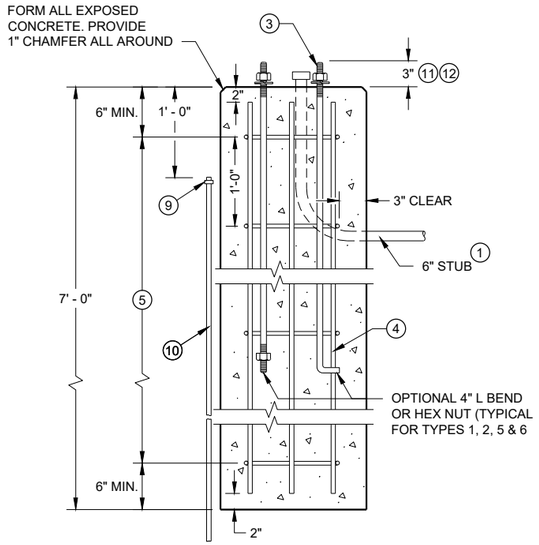
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

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

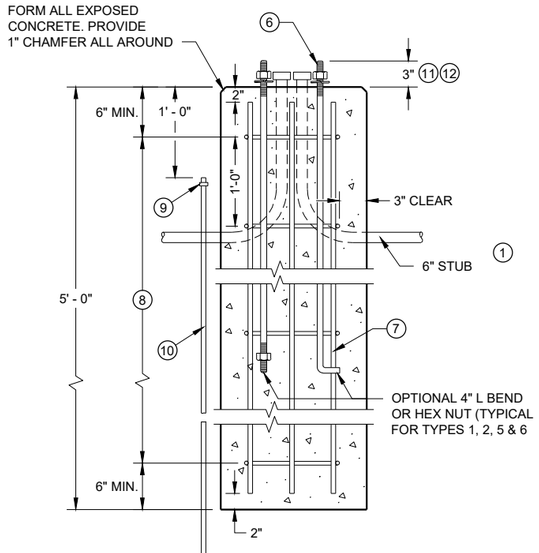
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



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

FHWA

GENERAL NOTES

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

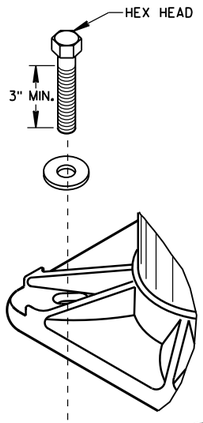
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

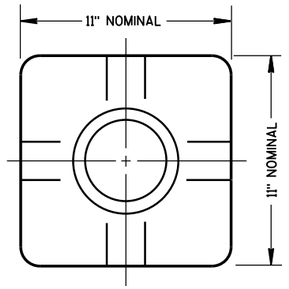
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

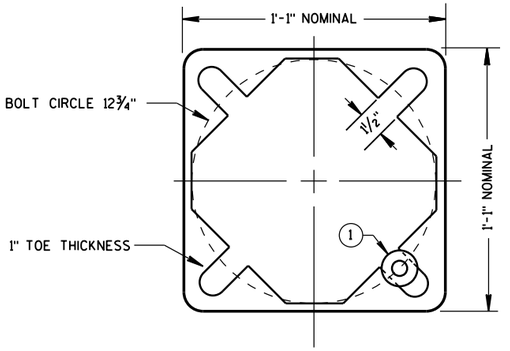
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

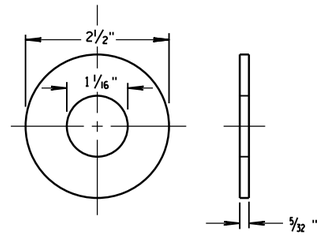




TOP VIEW
(PEDESTAL BASE)

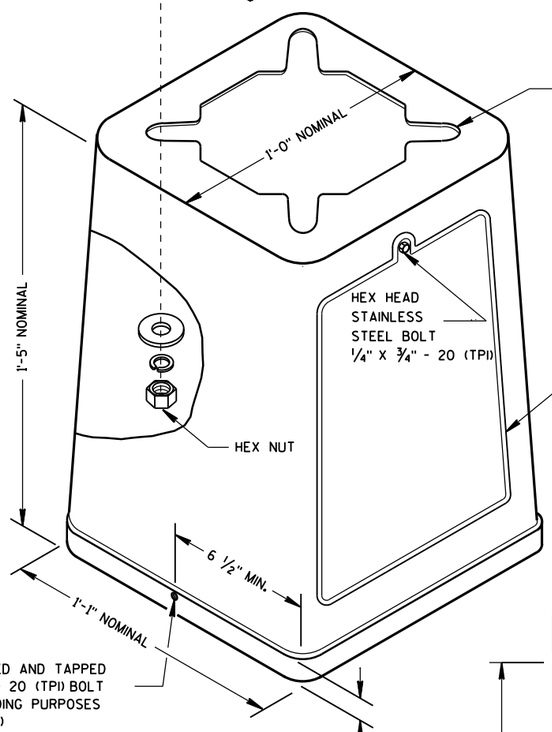


BOTTOM VIEW
(PEDESTAL BASE)

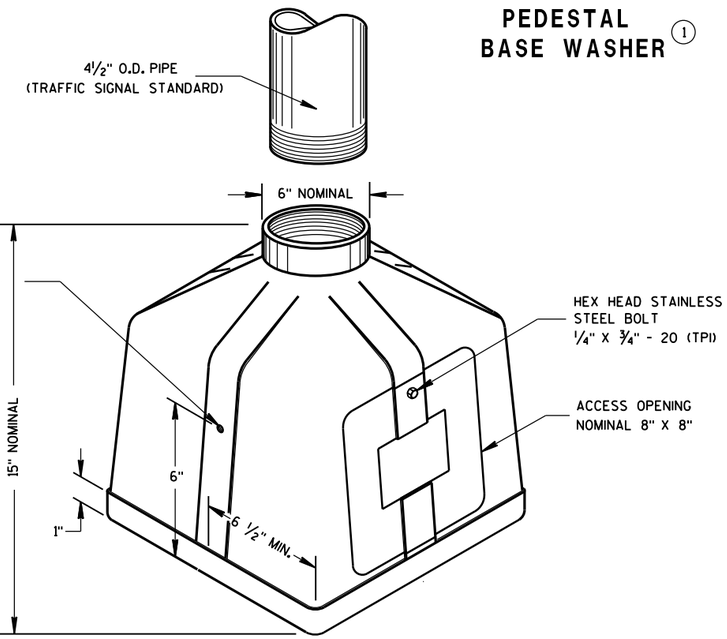


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

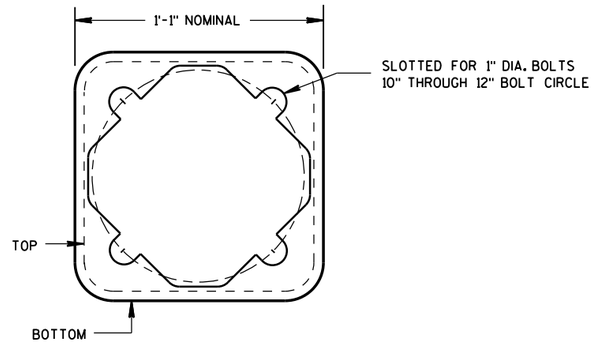
PEDESTAL BASE WASHER (1)



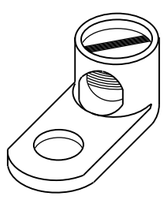
ISOMETRIC VIEW



ISOMETRIC VIEW
PEDESTAL BASE

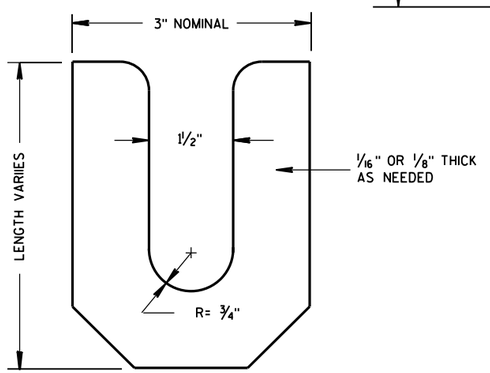


BOTTOM VIEW
(TRANSFORMER BASE)



TYPICAL MECHANICAL CONNECTOR LUG
TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE
INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

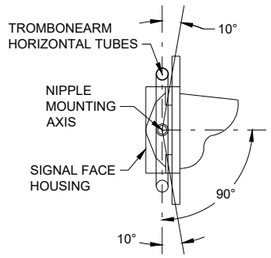
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 C 3-4

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S.D.D. 9 C 3-4

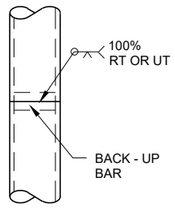


SECTION A-A

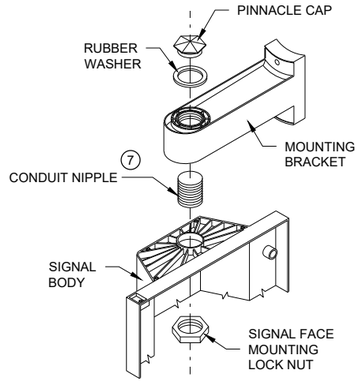
(10 DEGREES TILT REQUIREMENT OF FACE(S) IN THE TROMBONE MOUNTING)

FOR MANUFACTURERS USE ONLY

WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN / BRIDGE FOR VERIFICATION AND APPROVAL.



POLE SPLICE DETAIL



SIGNAL FACE MOUNTING DETAIL

(BANDED)

GENERAL NOTES

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

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

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

A PULL WIRE / ROPE SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

TYPE 2 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

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) SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING.

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

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING,PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) ASREQUIRED, TO PLUMB THE SIGNAL FACES.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

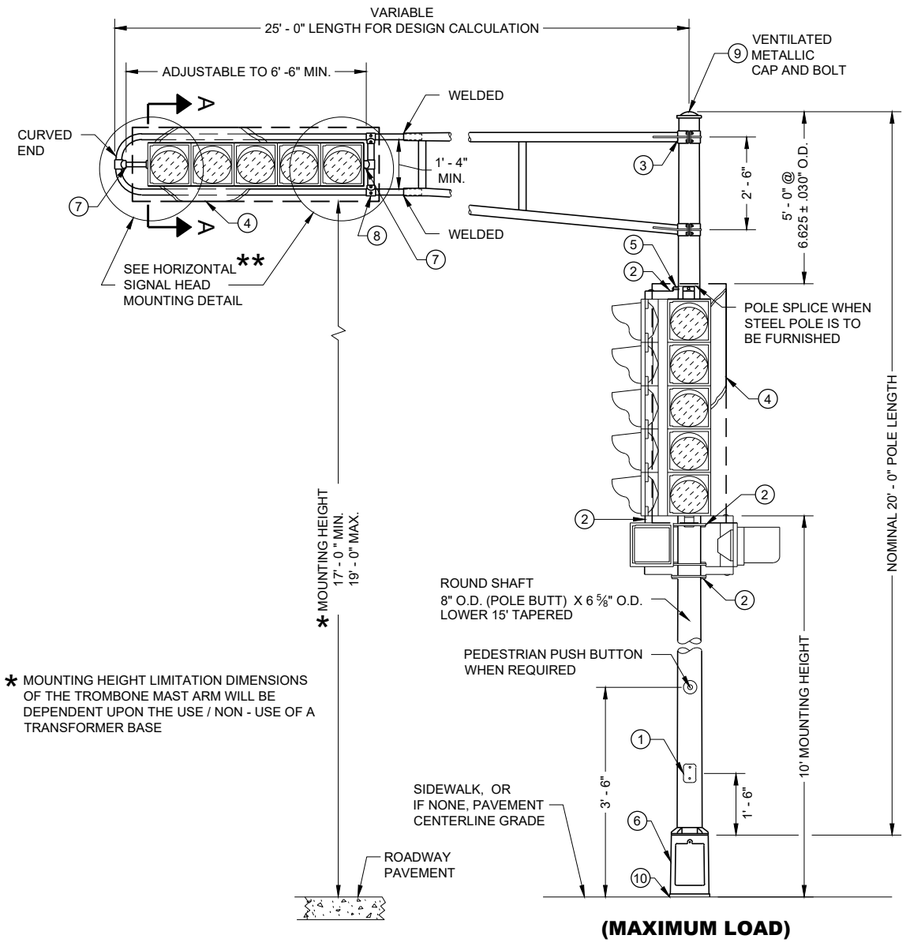
(7) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOTINTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.

(8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUTIS THE SLIDING TYPE.

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

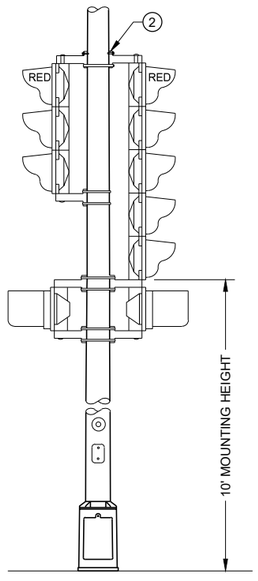
(10) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

(11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.

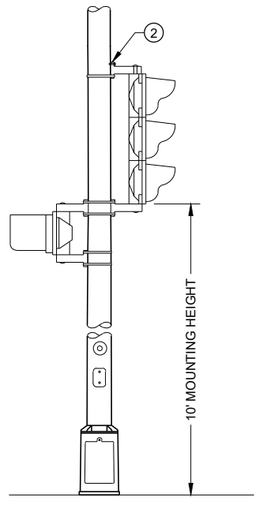


* MOUNTING HEIGHT LIMITATION DIMENSIONS OF THE TROMBONE MAST ARM WILL BE DEPENDENT UPON THE USE / NON - USE OF A TRANSFORMER BASE

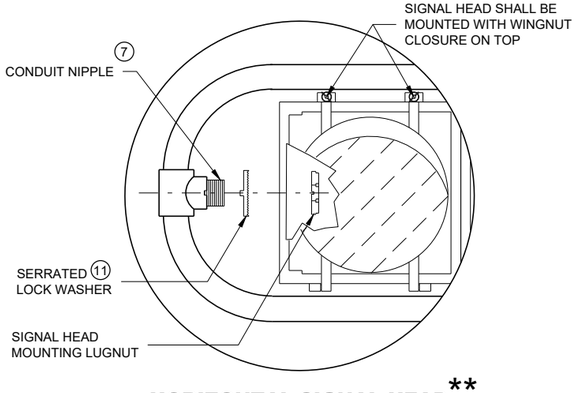
(MAXIMUM LOAD)



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



HORIZONTAL SIGNAL HEAD ** MOUNTING DETAIL

** SIGNAL HEAD ATTACHMENT ALSO APPLIES TO MOUNTING AT CROSS BAR

TYPE 2 POLE MOUNTING CONFIGURATION

POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2

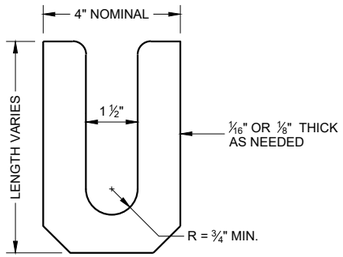
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

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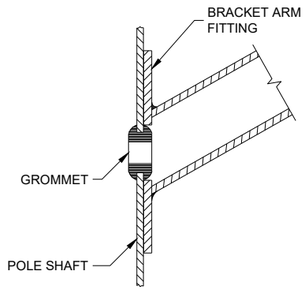
SDD 09E01 - 15a

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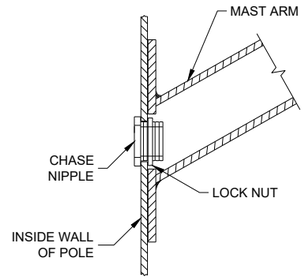
SDD 09E01 - 15a



LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

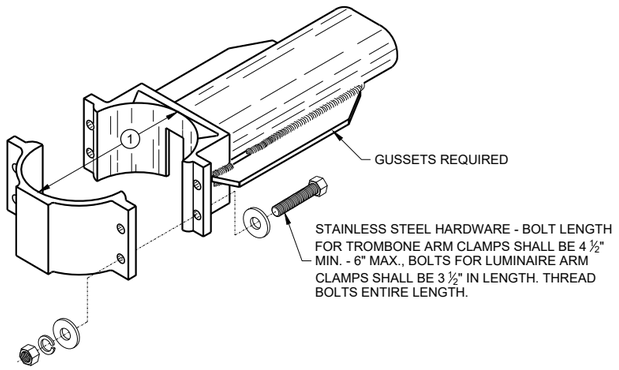
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

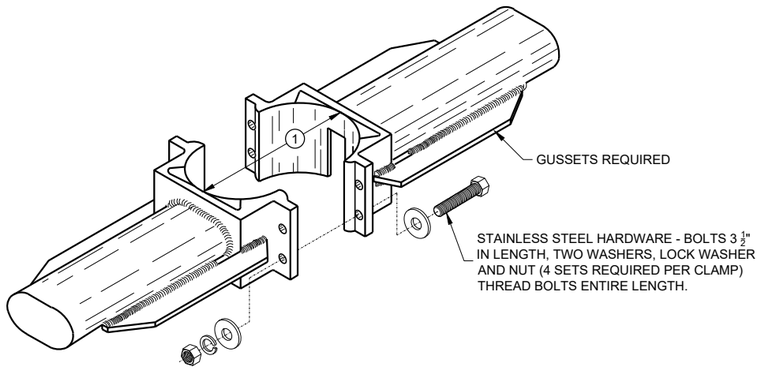
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

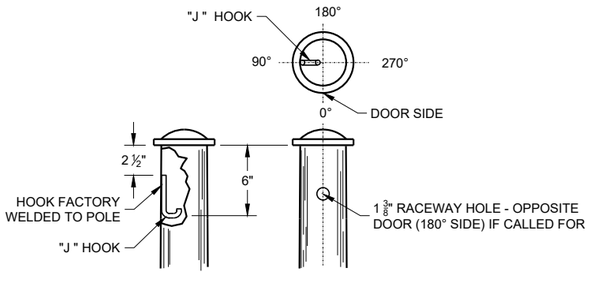
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



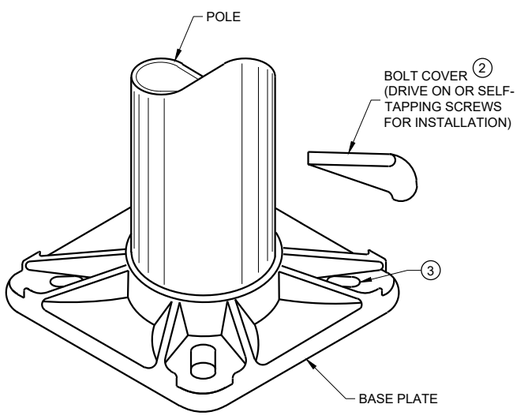
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



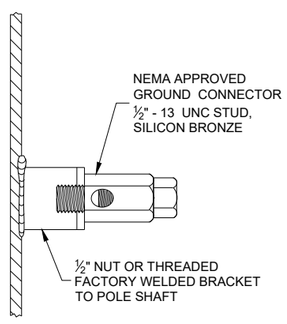
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

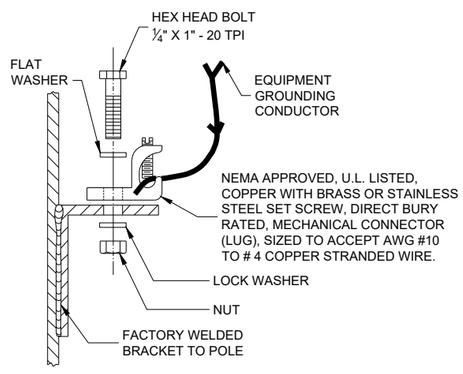


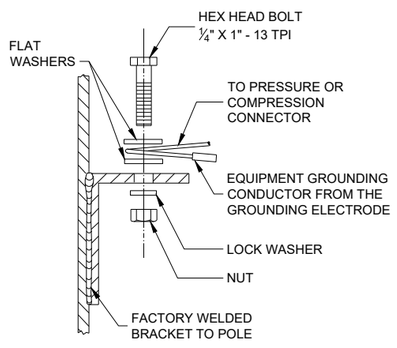
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

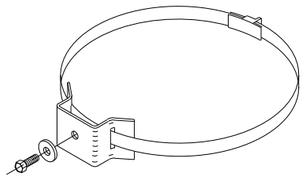
APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 196

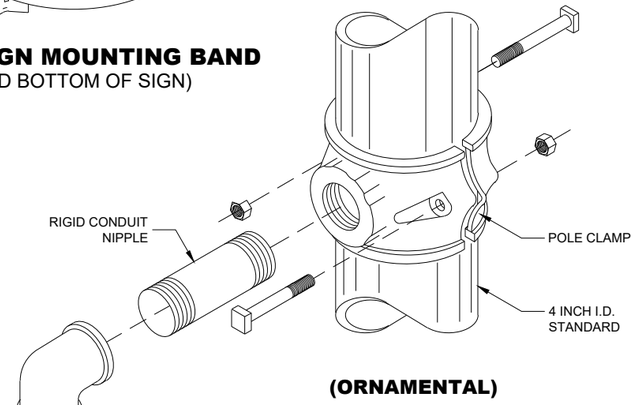
FHWA

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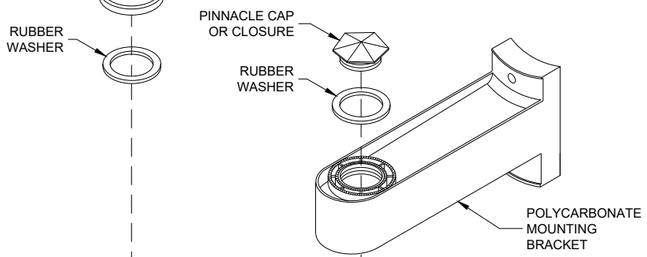
SDD 09A01 - 15g



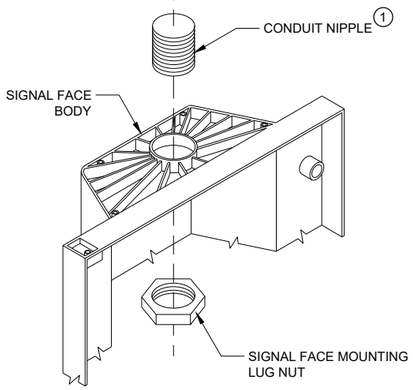
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



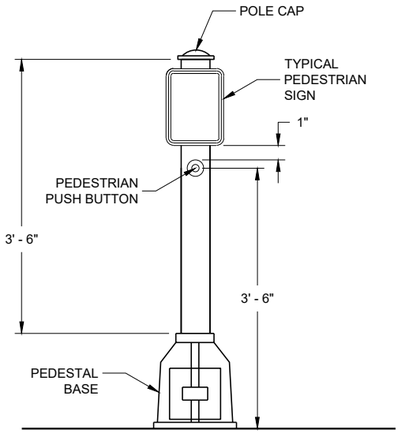
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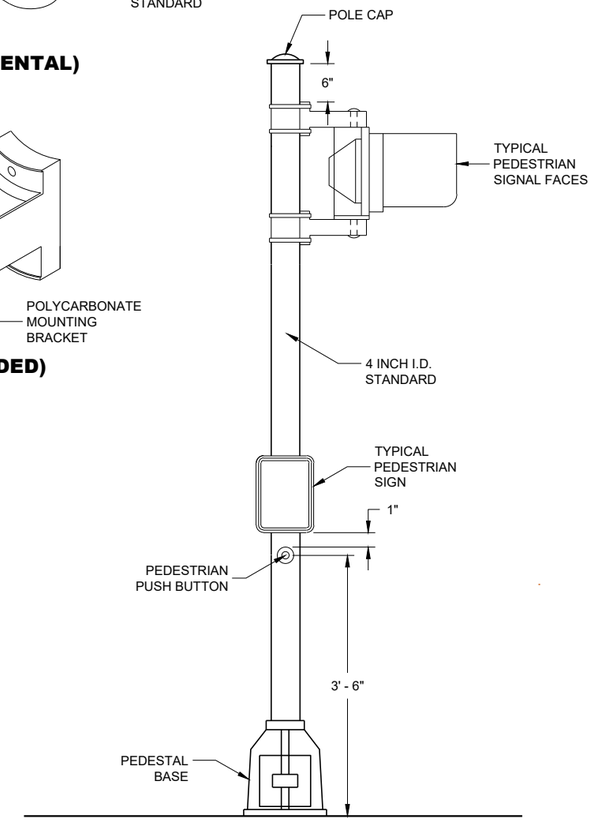
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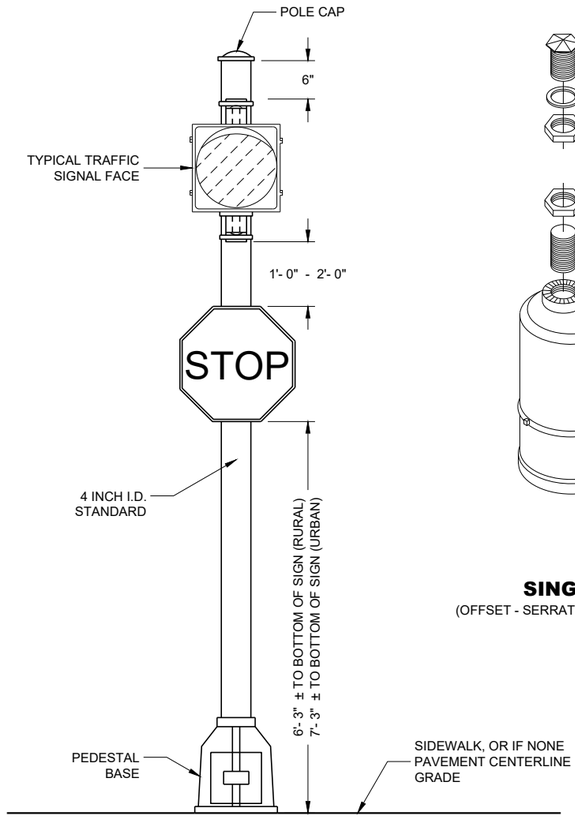
SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING



PEDESTRIAN FACE STANDARD - 10 FT.
(WALK - DON'T WALK)



STANDARD FLASHER
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS, UNLESS APPROVED BY THE ENGINEER IN THE FIELD.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

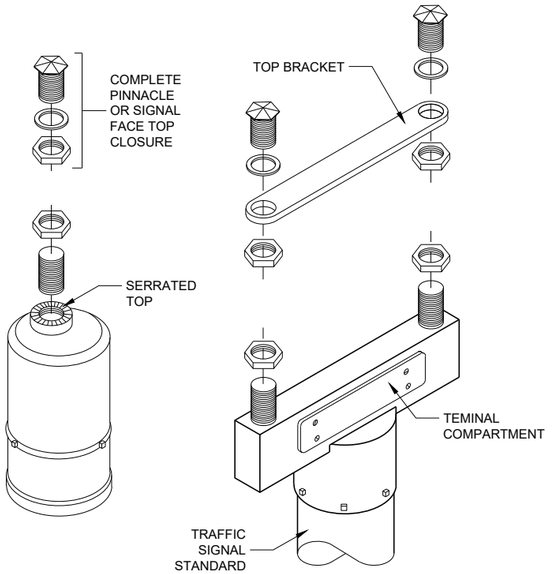
LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE REGION TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

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

(1) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACESAND BRACKET ENDS.



SINGLE
(OFFSET - SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

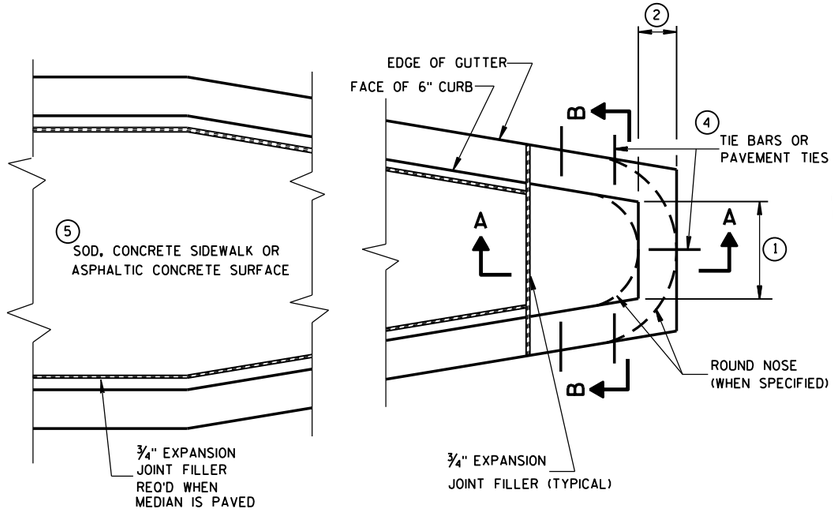
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

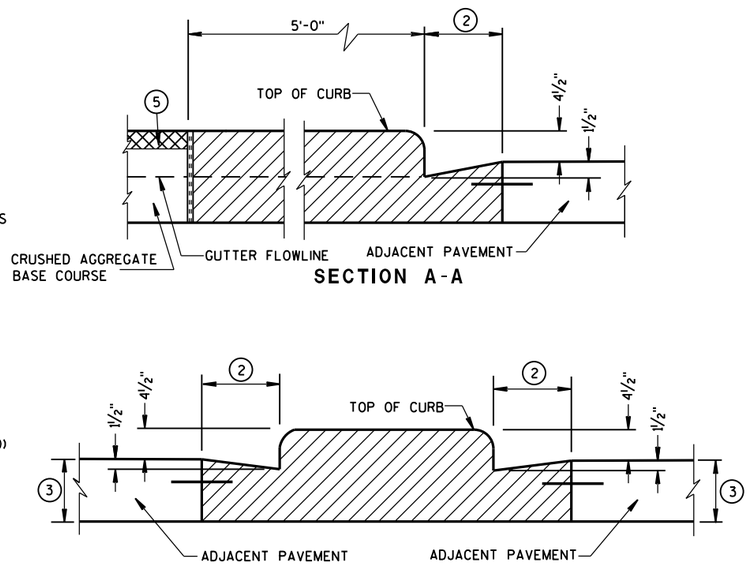
FHWA

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SDD 09E07 - 06

SDD 09E07 - 06





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.

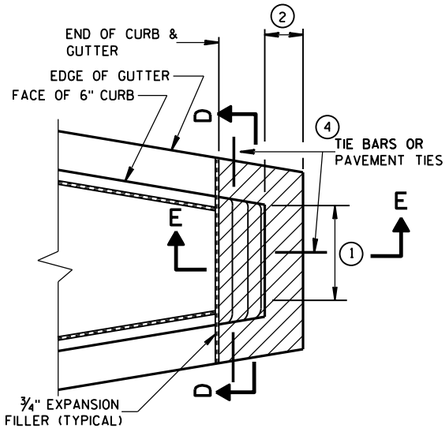
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

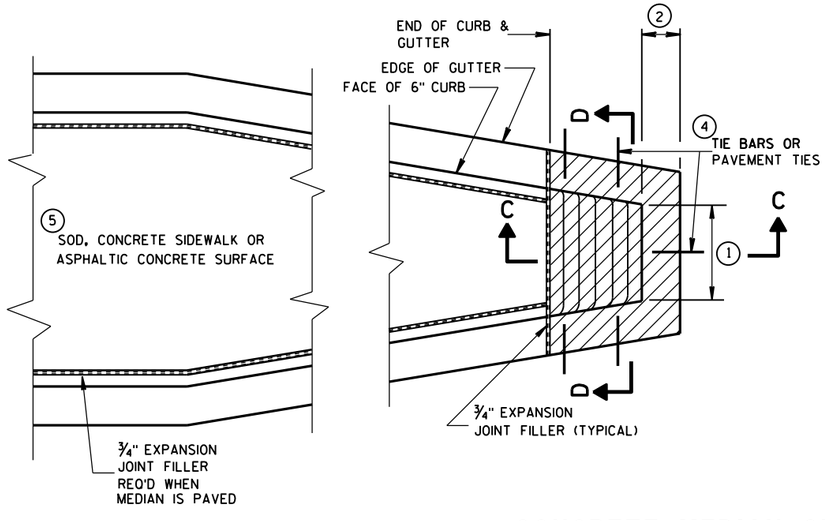
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

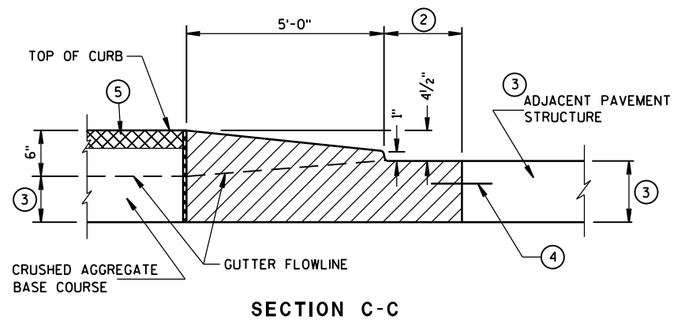
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

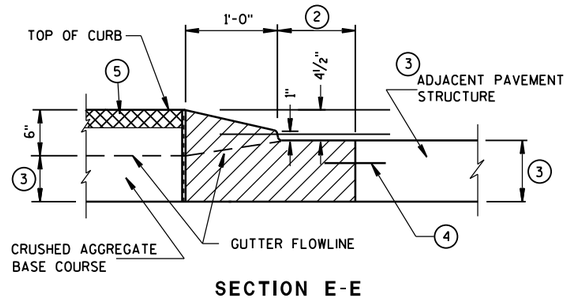
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

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



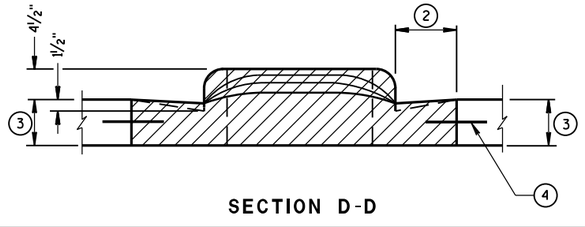






CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/8/2006
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER

FHWA

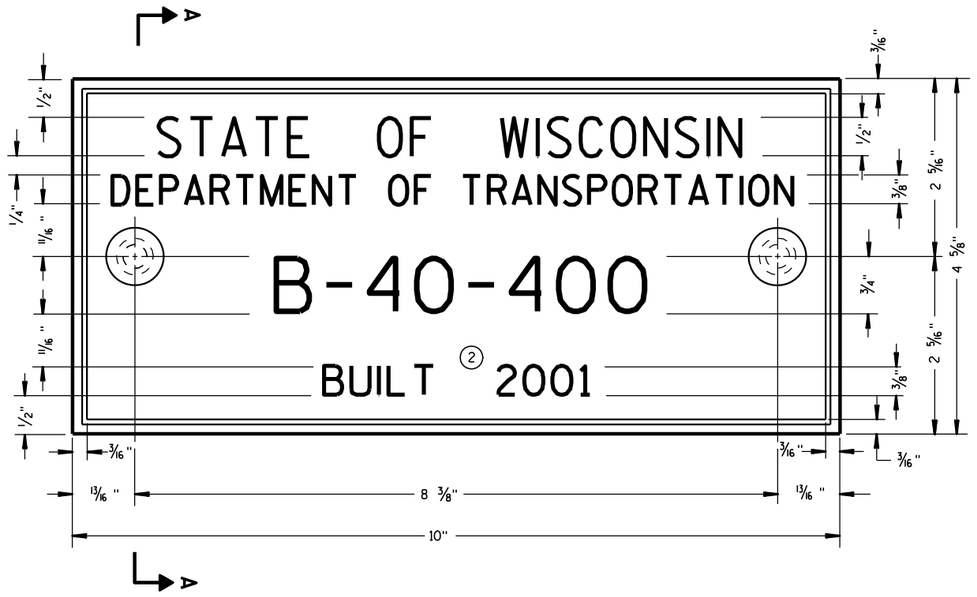
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S.D.D. 11 B 2-2

S.D.D. 11 B 2-2



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

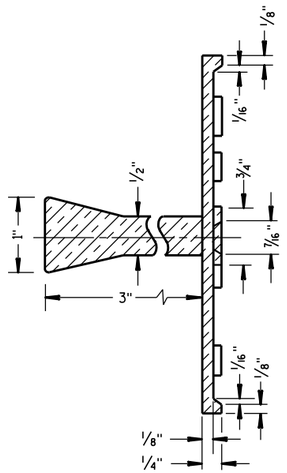
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

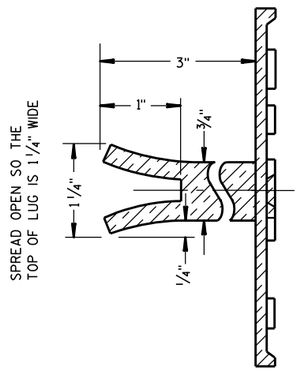
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG

FOR MULTI-UNIT STRUCTURES
LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

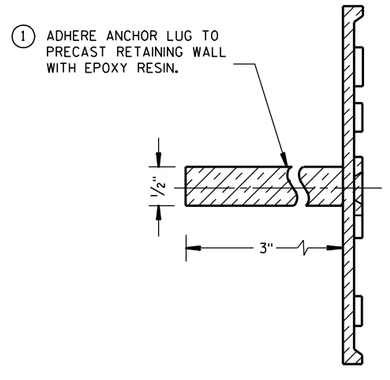
COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

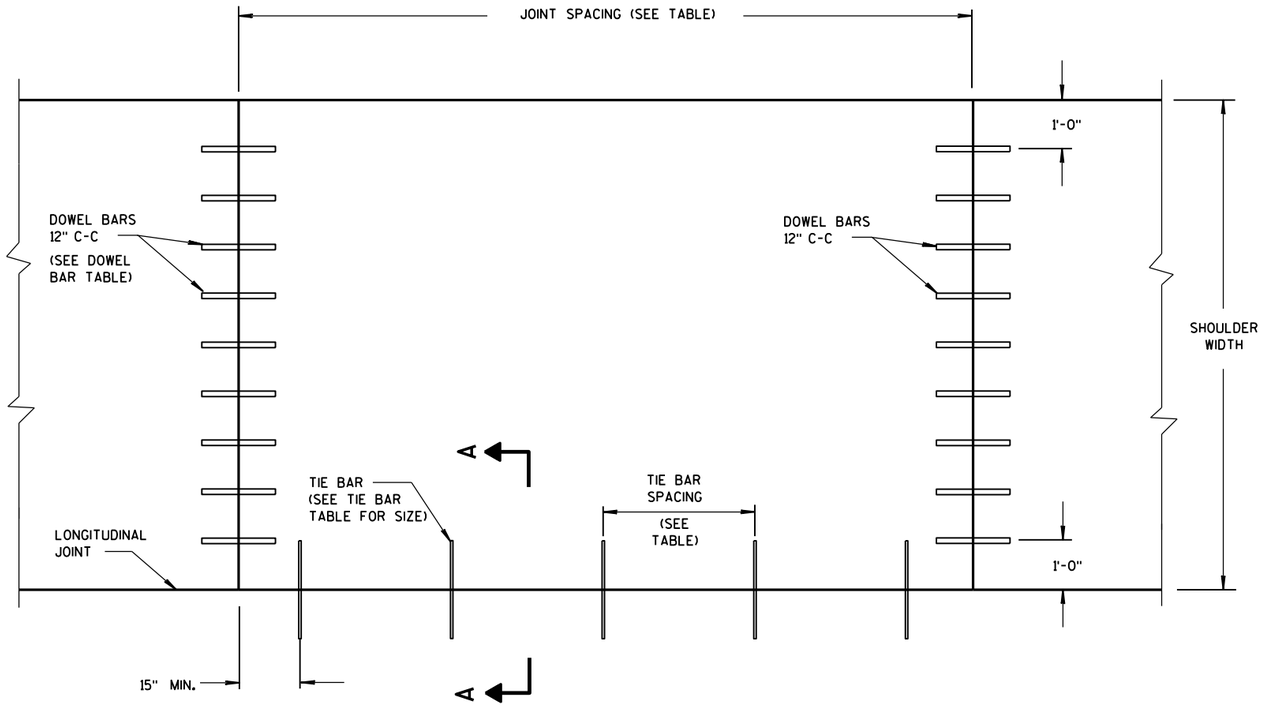
3/26/10
DATE

/S/ Scot Beck
CHIEF STRUCTURAL DEVELOPMENT ENGINEER

FHWA

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S.D.D. 12 A 3-10



PLAN VIEW

CONCRETE PAVEMENT SHOULDER

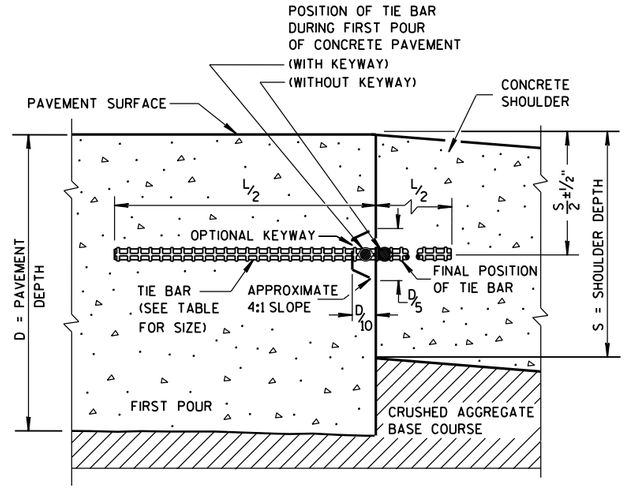
GENERAL NOTES

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.

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT

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" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER***	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'

*** FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

CONCRETE PAVEMENT SHOULDERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

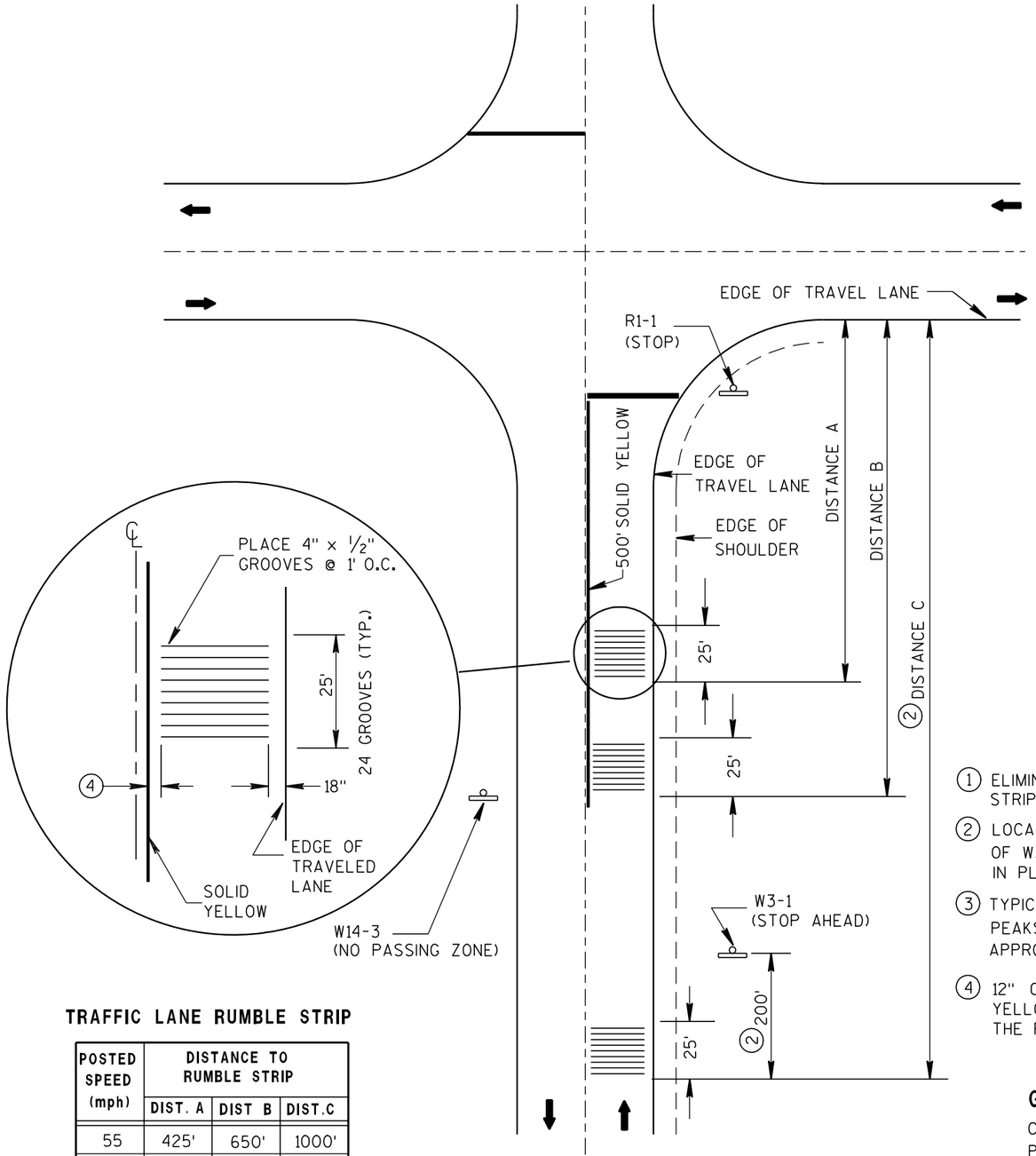
APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPERV
FHWA

6

S.D.D. 13 A 3-6

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S.D.D. 13 A 3-6



ARROW SYMBOL (➡) SHOWS DIRECTION OF TRAVEL

PLAN VIEW

RUMBLE STRIP LOCATION

TRAFFIC LANE RUMBLE STRIP

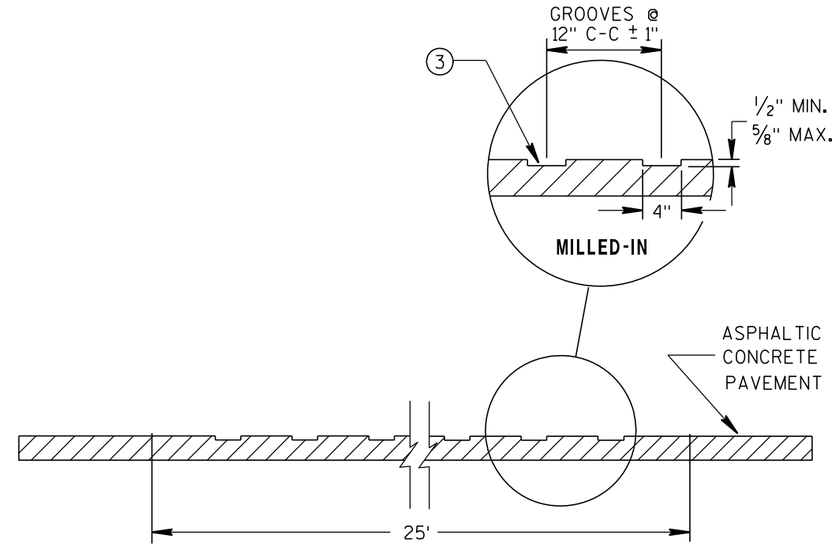
POSTED SPEED (mph)	DISTANCE TO RUMBLE STRIP		
	DIST. A	DIST B	DIST.C
55	425'	650'	1000'
50	325'	450'	800'
45	275'	400'	650'
40	225'	(1)	550'
35	175'	(1)	475'
≤ 30	125'	(1)	425'

(1) ELIMINATE THE MIDDLE SET OF RUMBLE STRIPS.

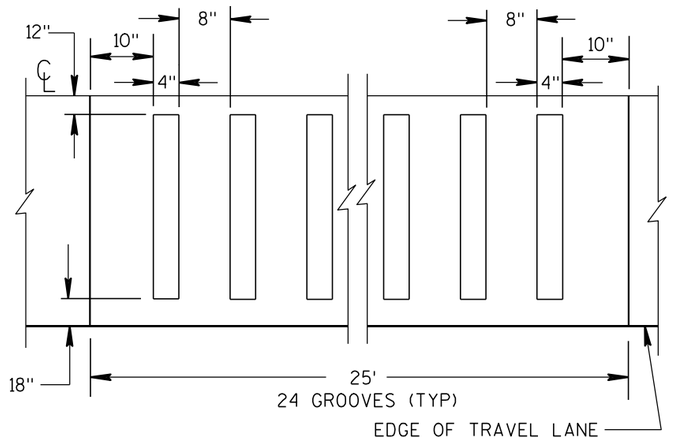
(2) LOCATE RUMBLE STRIP 200' IN ADVANCE OF W3-1 SIGN AS SHOWN. IF W3-1 IS NOT IN PLACE, USE DISTANCE C.

(3) TYPICAL VERTICAL VARIATION BETWEEN PEAKS AND VALLEYS WITHIN THE CUT APPROXIMATELY 1/16"

(4) 12" CLEAR BETWEEN THE SOLID YELLOW LINE AND THE EDGE OF THE RUMBLE.



ELEVATION VIEW



PLAN VIEW

ASPHALTIC PAVEMENT MILLED-IN

GENERAL NOTES

CONTRACTOR SHALL CONFIRM RUMBLE STRIP LOCATION WITH THE ENGINEER PRIOR TO INSTALLATION. THE ENGINEER MAY MODIFY THE RUMBLE STRIP LOCATION AS FIELD CONDITIONS DICTATE.

WHEN ASPHALTIC PAVEMENT IS NEW IN THE RUMBLE AREA THE CONTRACTOR SHALL ALLOW THE PAVEMENT TO CURE A MINIMUM OF 7 DAYS PRIOR TO RUMBLE INSTALLATION.

PAVEMENT MARKING AND SIGNING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

ASPHALTIC RUMBLE STRIPS AT INTERSECTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

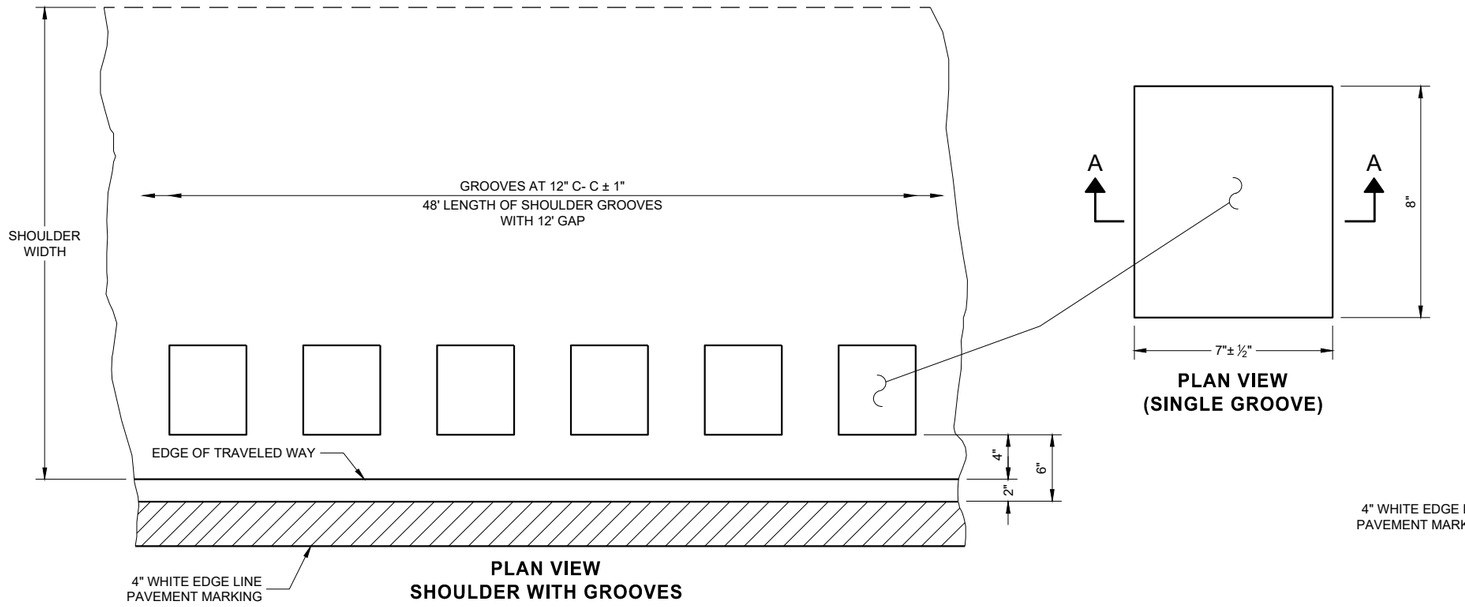
8/17/2011
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS | 201
ENGINEER

FHWA

6

S.D.D. 13 A 8-1



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

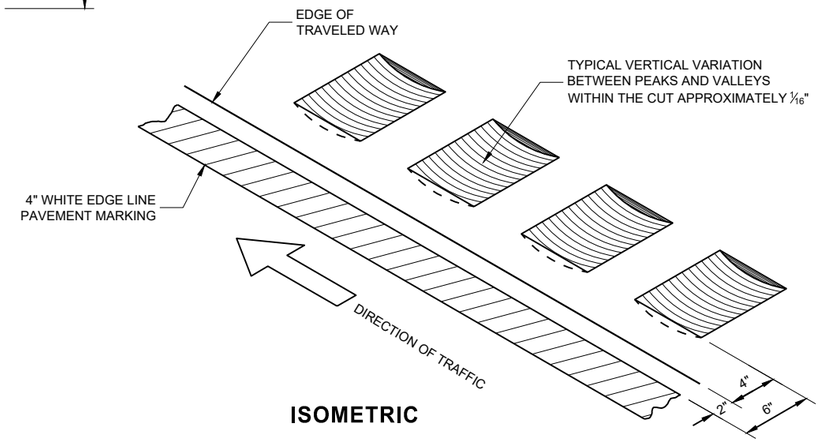
PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP

GENERAL NOTES

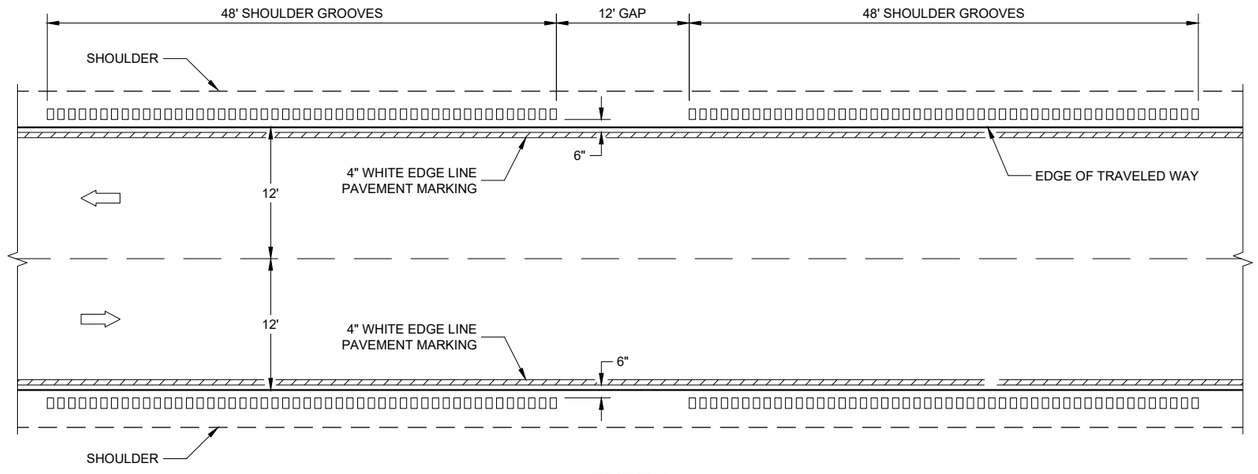
DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

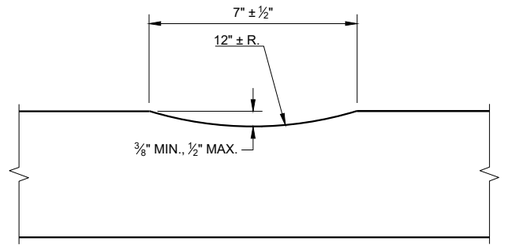
(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



ISOMETRIC



TYPE 1
2 - LANE SHOULDER RUMBLE STRIP



SECTION A - A

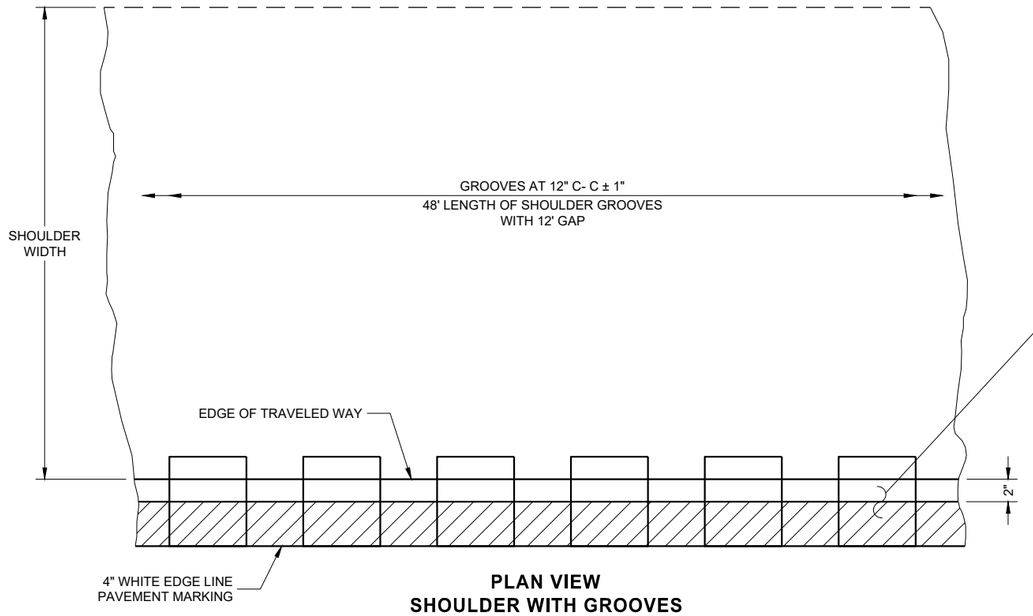
2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

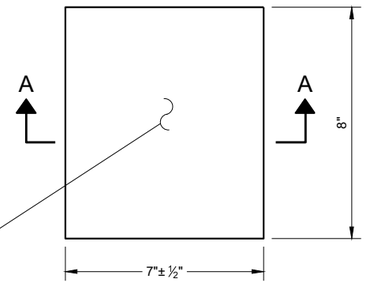
SDD 13A10 - 02a

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SDD 13A10 - 02a



PLAN VIEW
SHOULDER WITH GROOVES



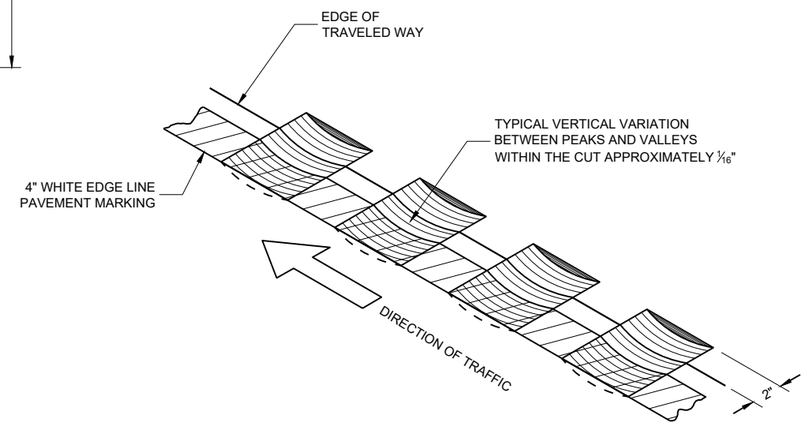
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

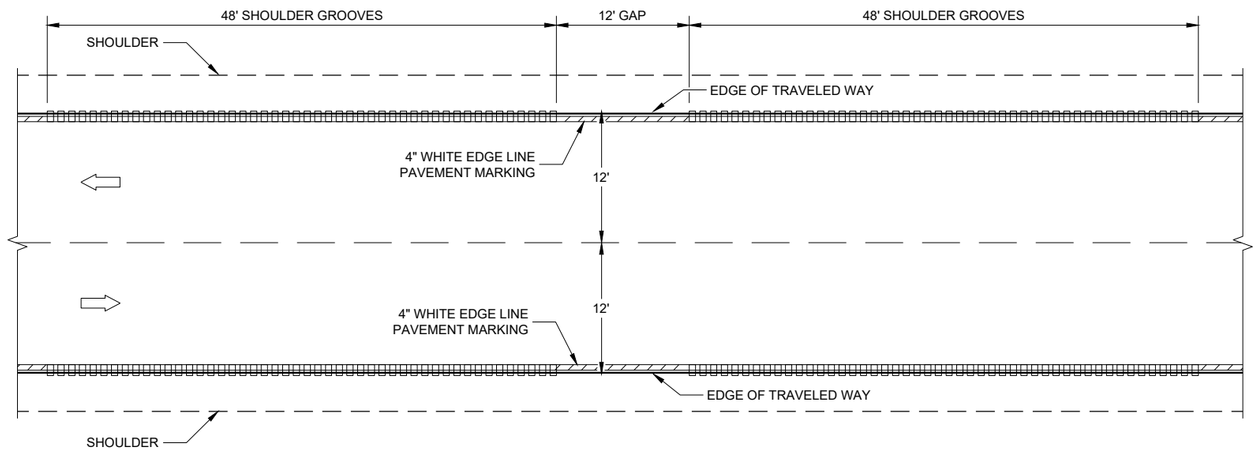
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

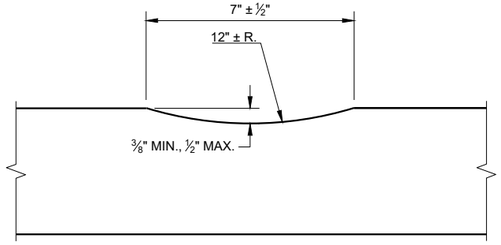


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP



TYPE 2
2 - LANE SHOULDER RUMBLE STRIP



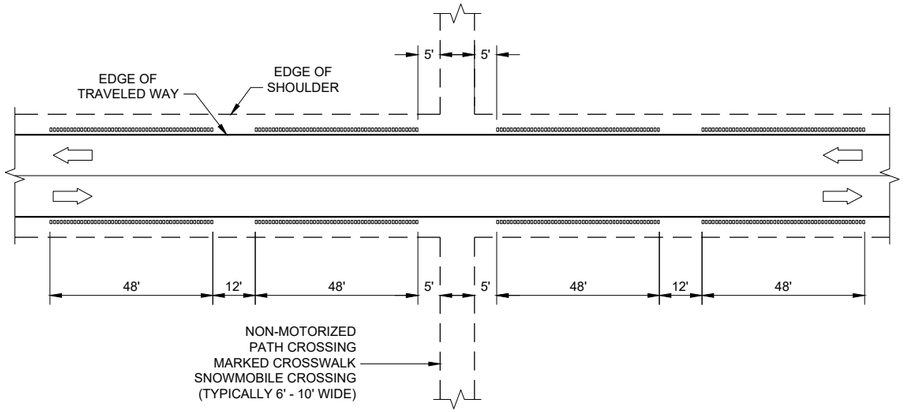
SECTION A - A

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

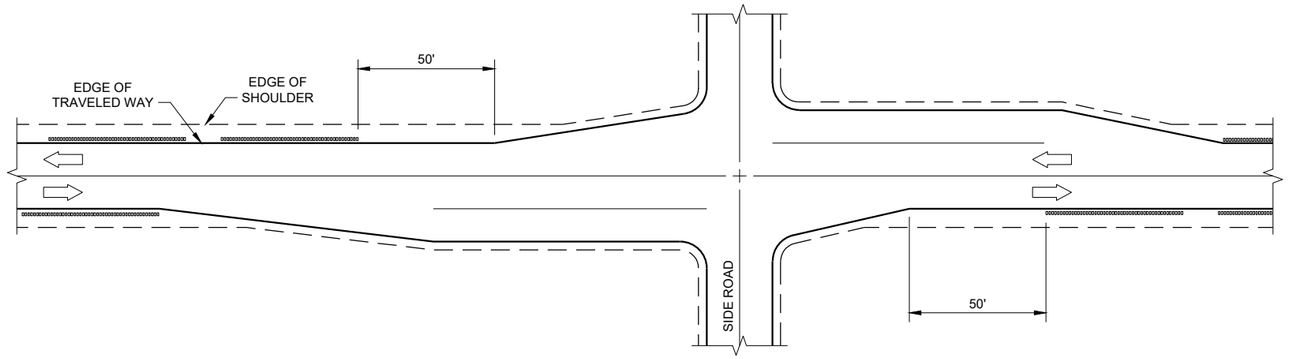
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 13A10 - 02b

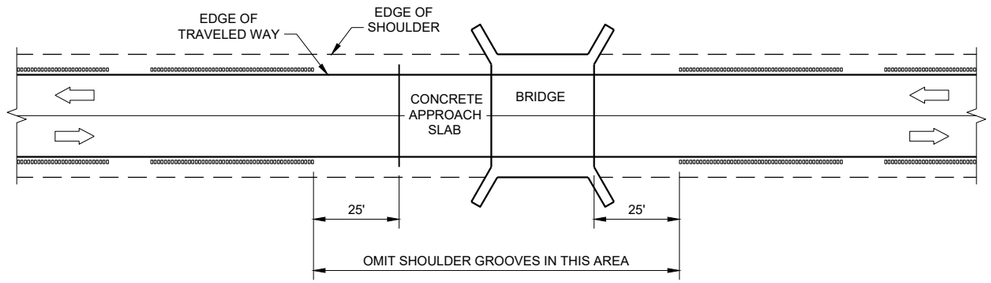
SDD 13A10 - 02b



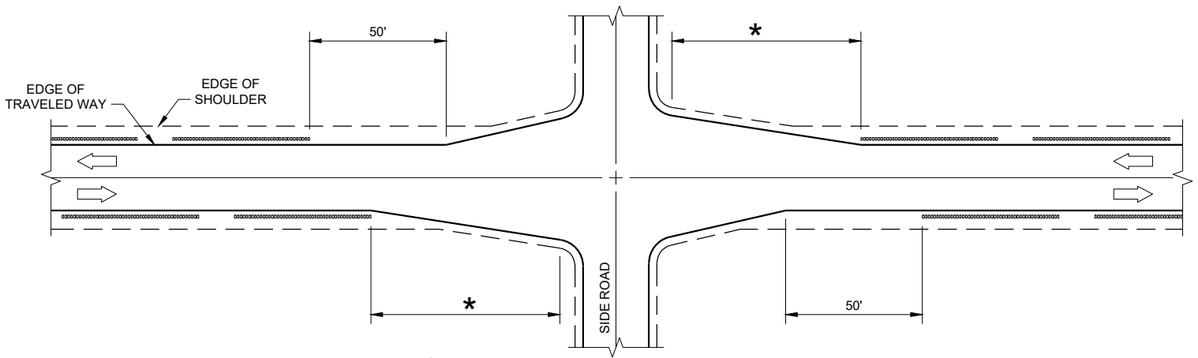
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



SHOULDER GROOVES AT RIGHT TURN LANE

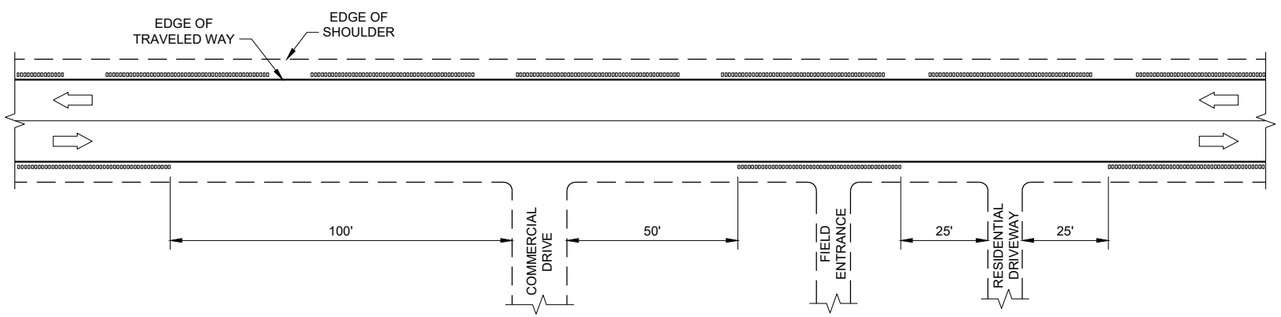


SHOULDER GROOVES AT BRIDGES



* 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

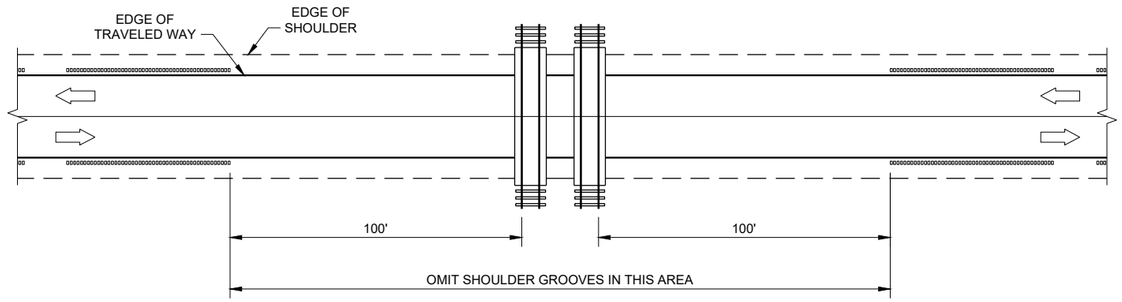
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

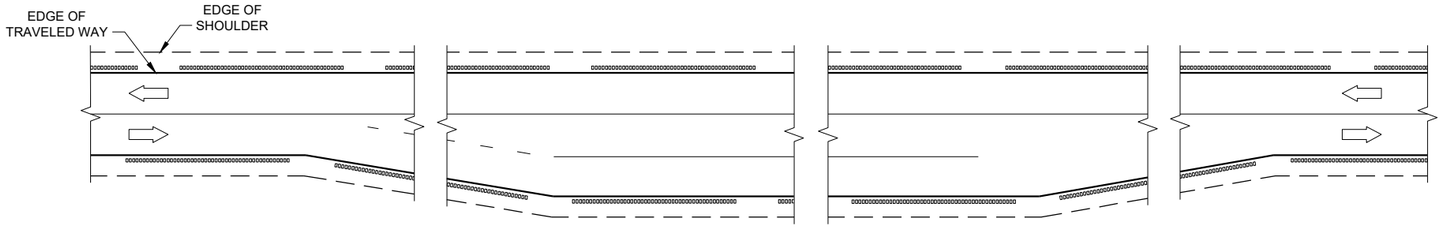
SDD 13A10 - 02c

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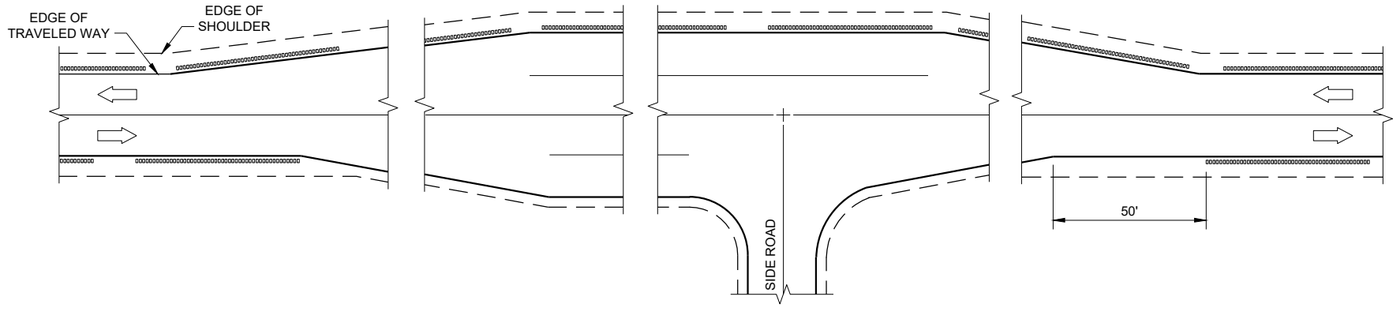
SDD 13A10 - 02c



SHOULDER GROOVES AT RAILROADS



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

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SDD 13A10 - 02d

SDD13A10 - 02d

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

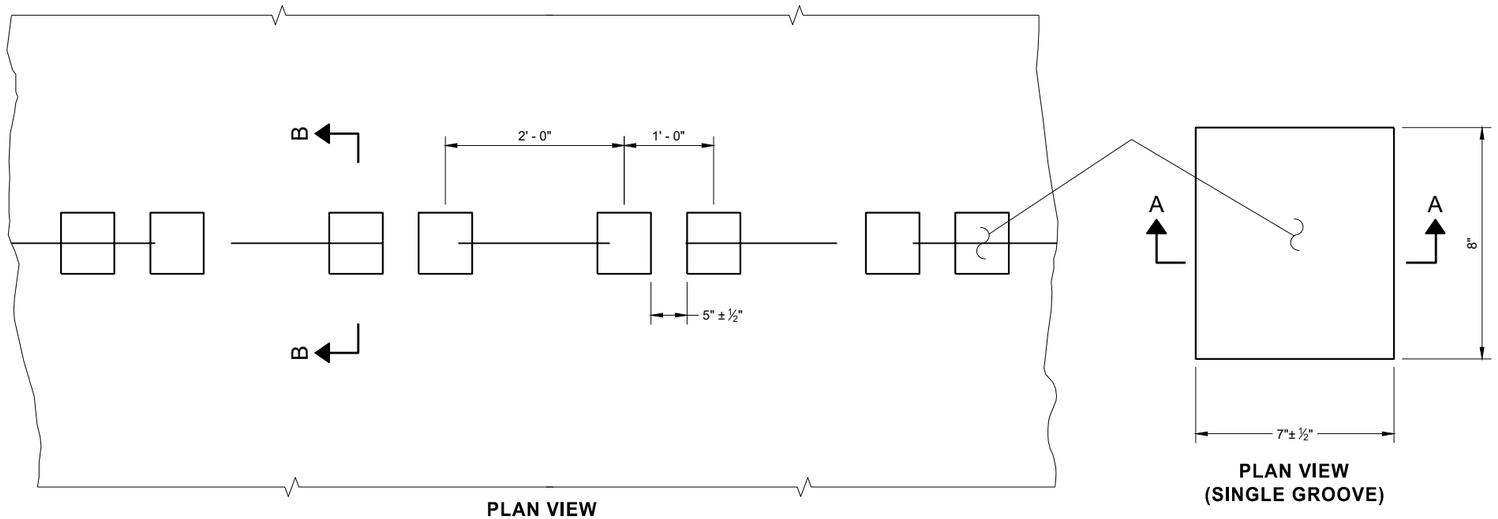
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

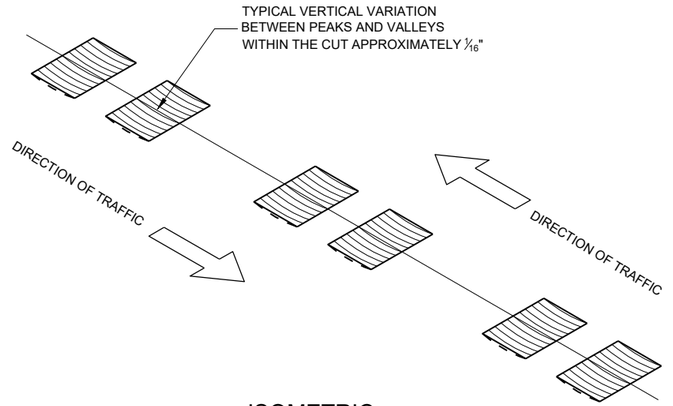
DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTERLINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

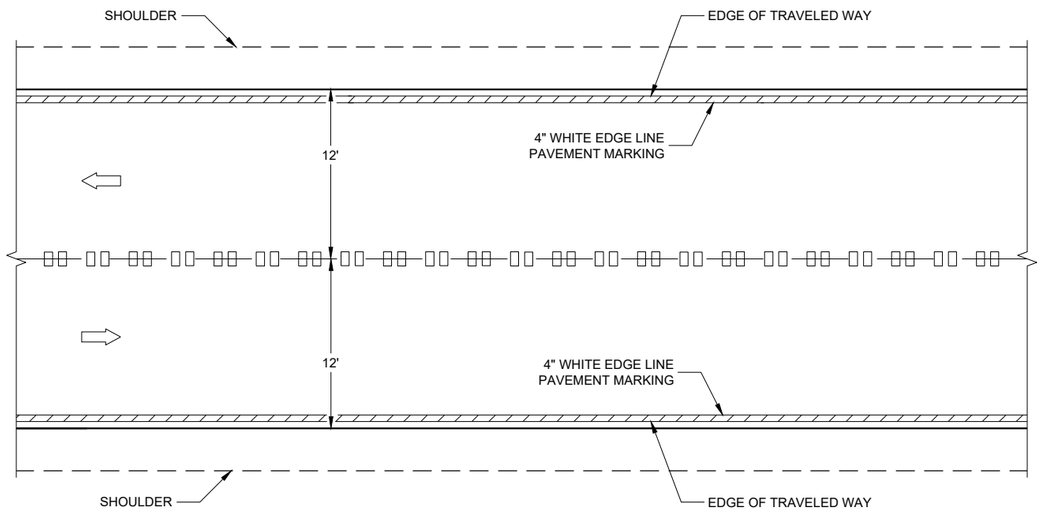
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

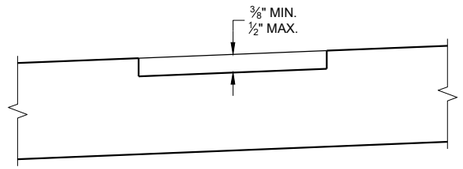
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



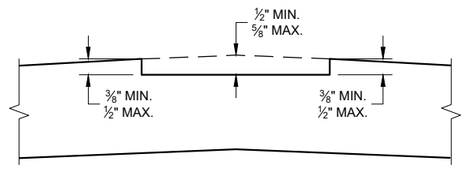
ISOMETRIC



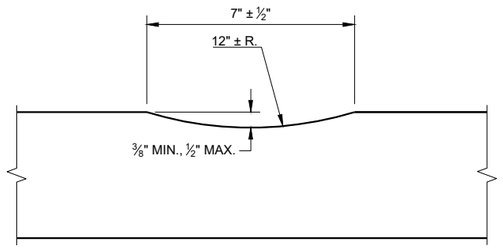
CENTERLINE GROOVES ON TWO-WAY ROADWAYS



SECTION B - B
SUPERELEVATED ROADWAY



SECTION B - B
CROWNED ROADWAY



SECTION A - A

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

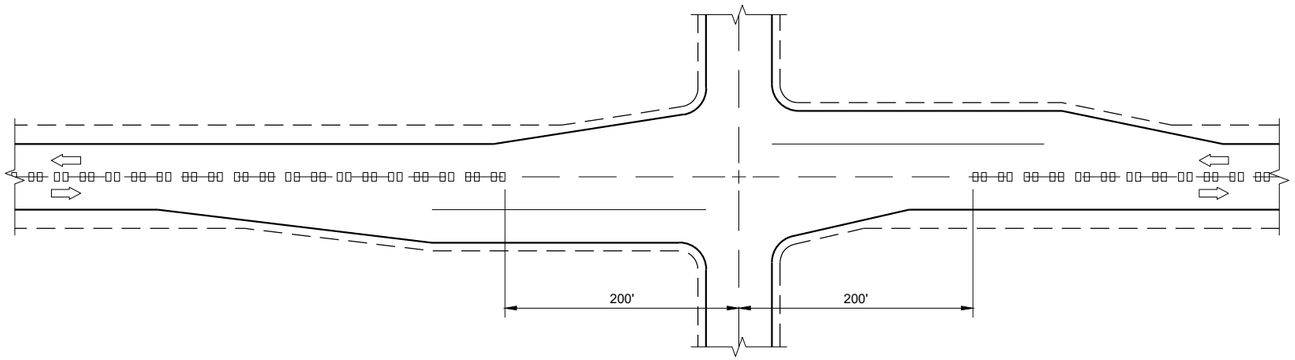
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

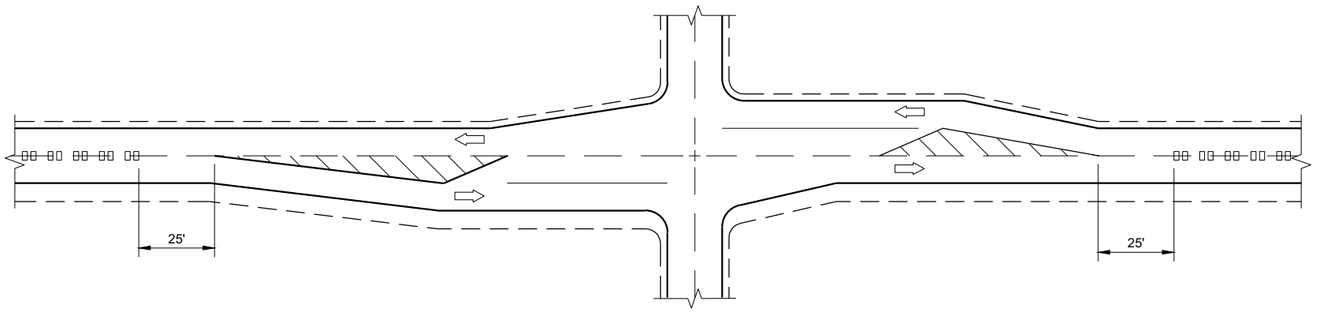
SDD 13A11 - 03a

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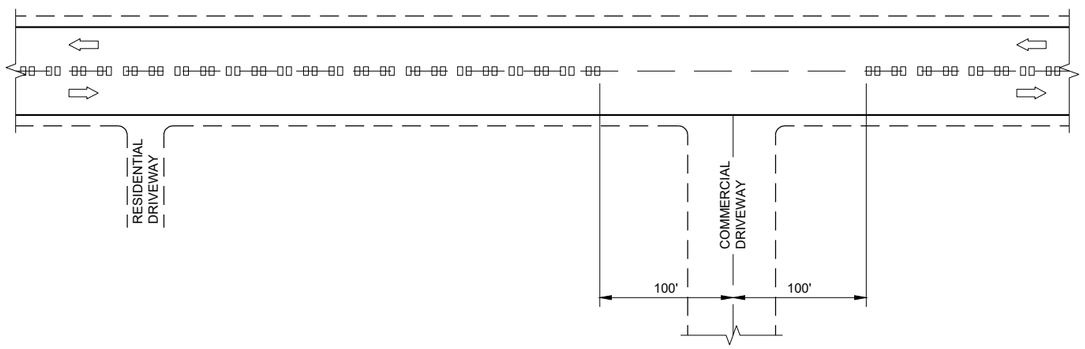
SDD 13A11 - 03a



CENTERLINE GROOVES AT INTERSECTIONS



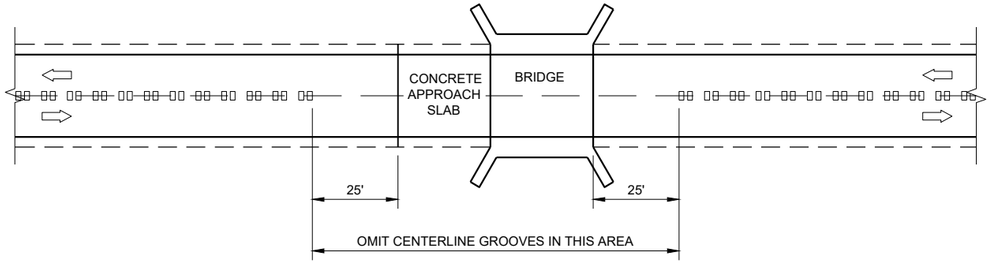
CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



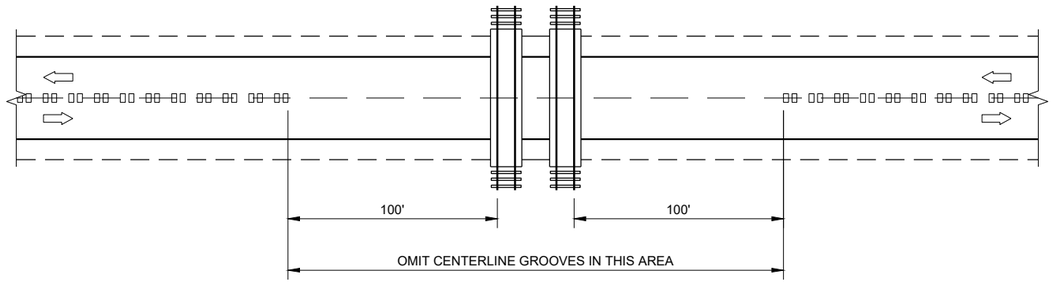
CENTERLINE GROOVES AT DRIVEWAYS (1)

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

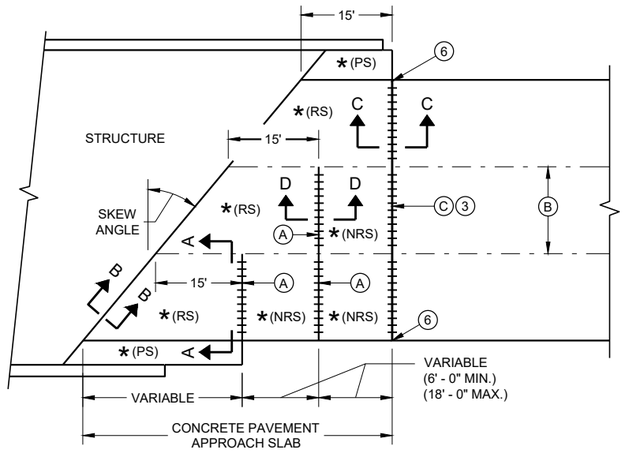
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

SDD 13A11 - 03b
SDD 13A11 - 03b



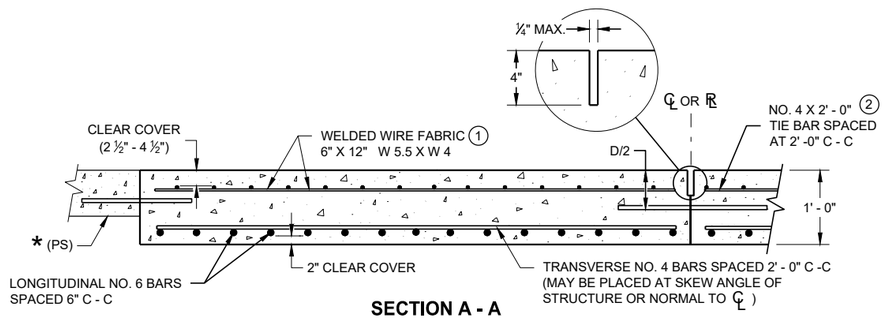
SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)

* (RS) = REINFORCED CONCRETE SLAB

* (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB

* (NRS) - NON - REINFORCED CONCRETE SLAB

*** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



SECTION A - A
REINFORCEMENT POSITIONING DETAIL

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

(1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0 " C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

(2) THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) USE A JOINT SEALANT MEETING THE REQUIREMENTS OF ASTM D6690.

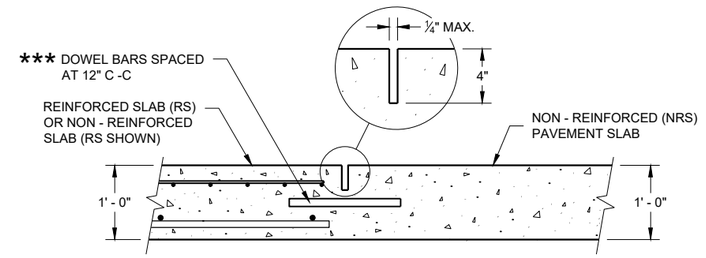
(5) PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.

(6) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

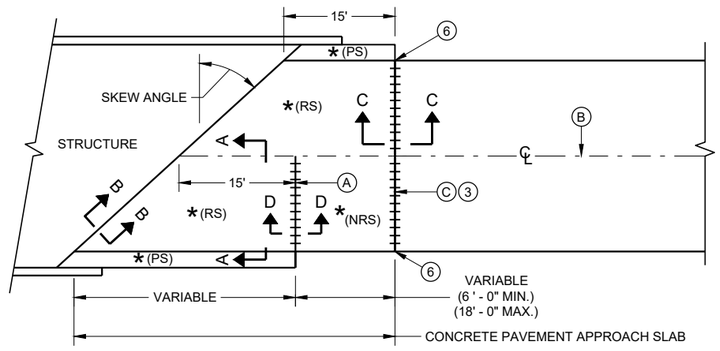
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℞.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞

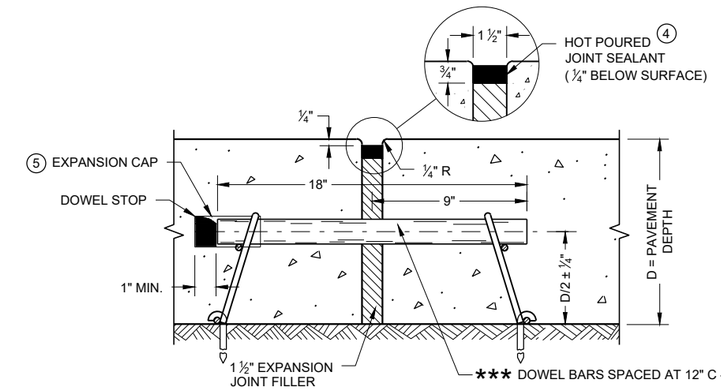


SECTION D - D
CONTRACTION JOINT

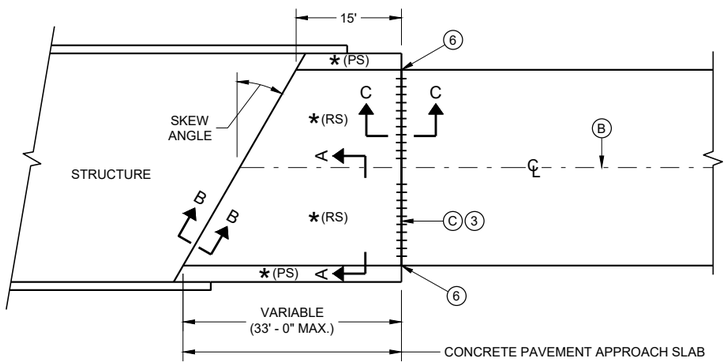


SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')

SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT

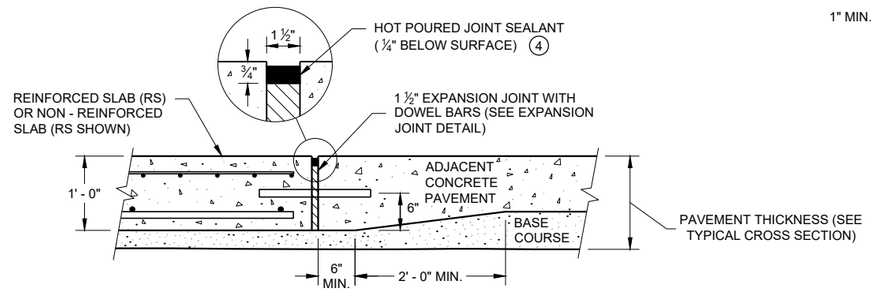


EXPANSION JOINT DETAIL



SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

APPROACH SLAB AND ADJACENT PAVEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

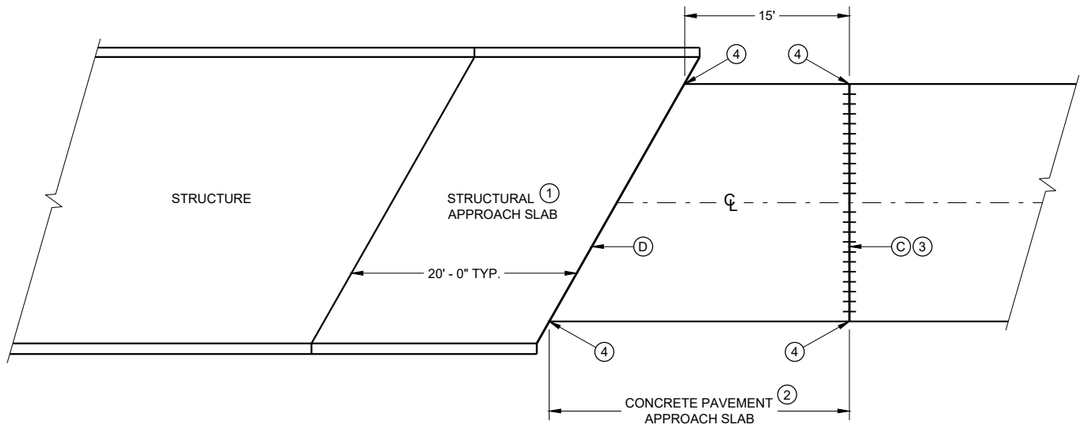
APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVISO

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SDD 13B02 - 09a



BRIDGE APPROACHES

GENERAL NOTES

ALL PROJECTS THAT INVOLVE A STRUCTURAL APPROACH SLAB WILL ALSO HAVE A CONCRETE PAVEMENT APPROACH SLAB.

(1) SEE BRIDGE PLAN.

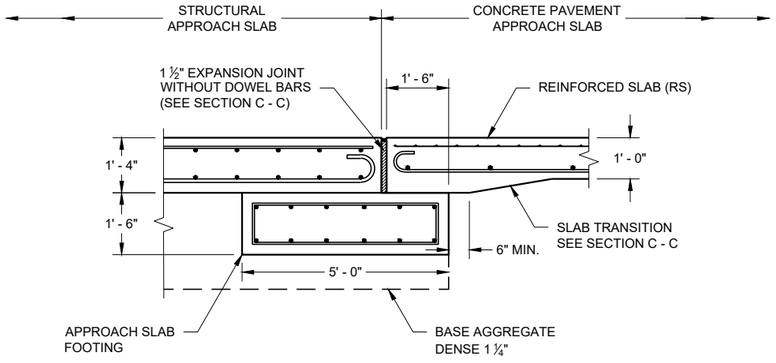
(2) CONFORM TO SDD 13B02 SHEET A FOR CONCRETE PAVEMENT APPROACH SLAB DETAILS

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

(C) 1 ½" EXPANSIONT JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞.

(D) 1 ½" EXPANSION JOINT (NO DOWELS)



SECTION E - E
FOOTING DETAIL
STRUCTURAL APPROACH SLAB TO CONCRETE BRIDGE APPROACH

STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
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November 2018
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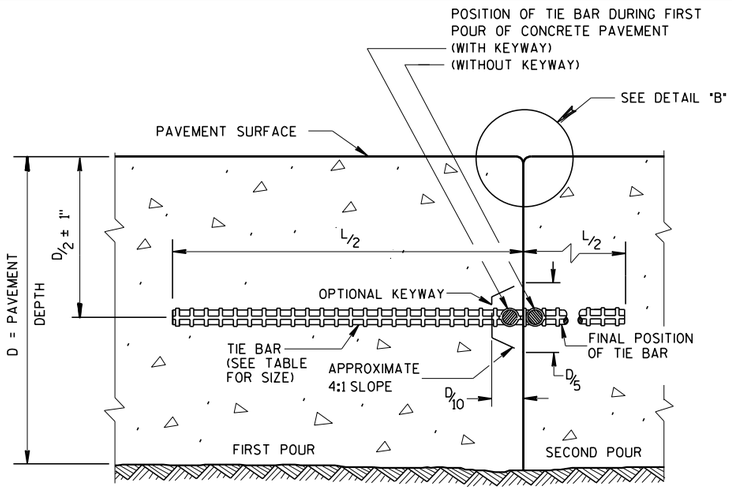
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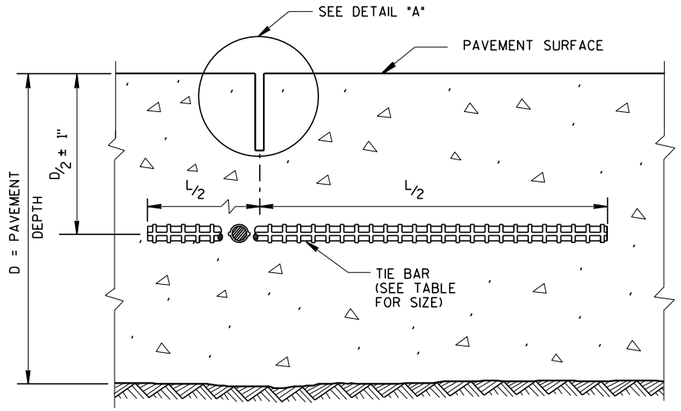
SDD 13B02 - 09b

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SDD 13B02 - 09b



CONSTRUCTION JOINT



SAWED JOINT

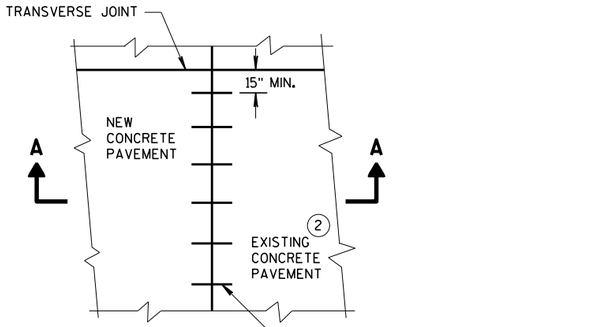
GENERAL NOTES

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

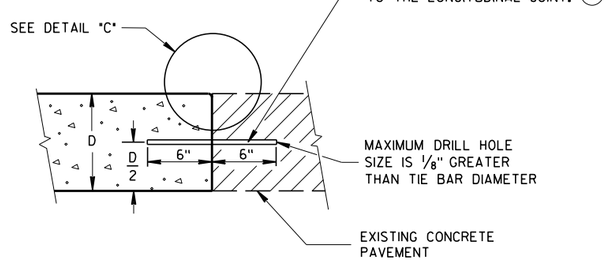
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

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

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

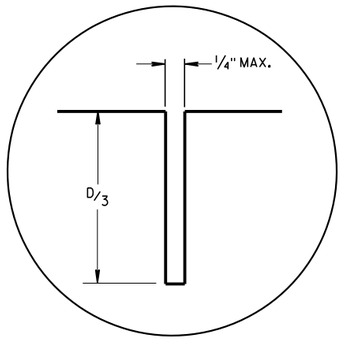


PLAN VIEW

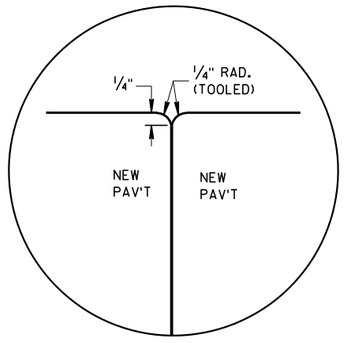


SECTION A-A

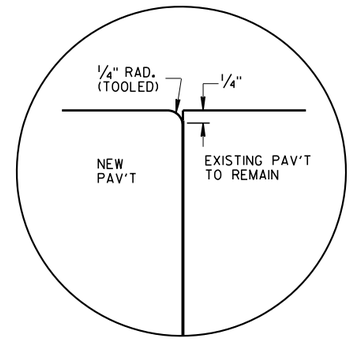
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



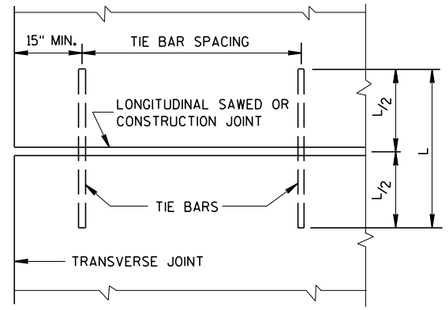
DETAIL "C"

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

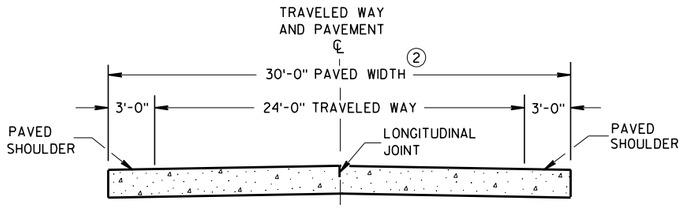
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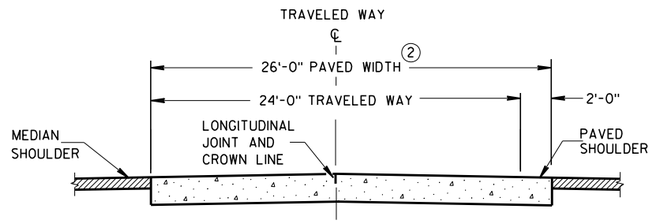
S.D.D. 13 C 1-19

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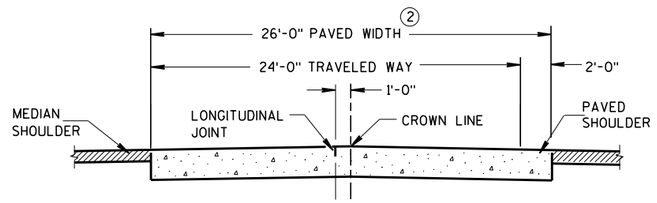
S.D.D. 13 C 1-19



SECTION A-A
TWO-LANE TWO-WAY HIGHWAY (1)



SECTION B-B



ALTERNATIVE SECTION B-B
(1)
DIVIDED HIGHWAY

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

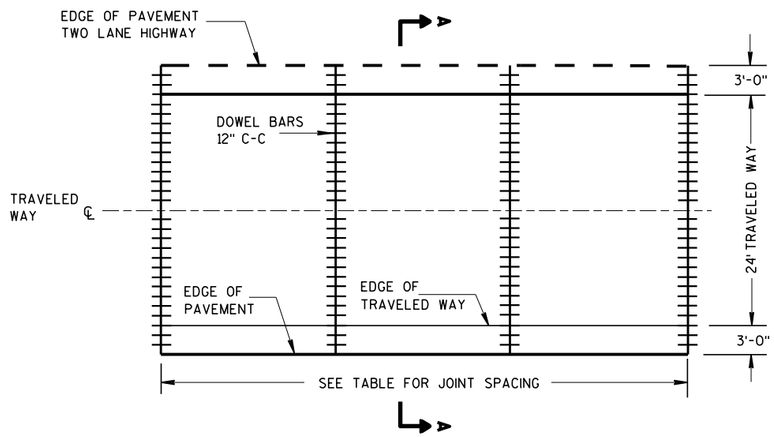
LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

(1) REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

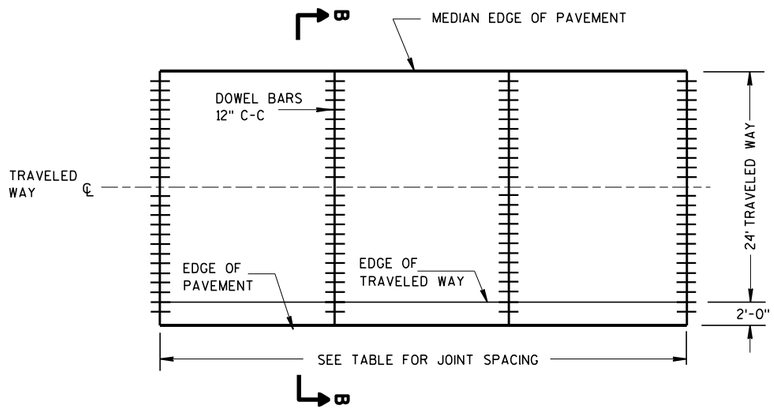
(2) MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED PAVED SHOULDER AS CONCRETE PAVEMENT.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



CONTRACTION JOINT LAYOUT
FOR TWO-LANE TWO-WAY HIGHWAY



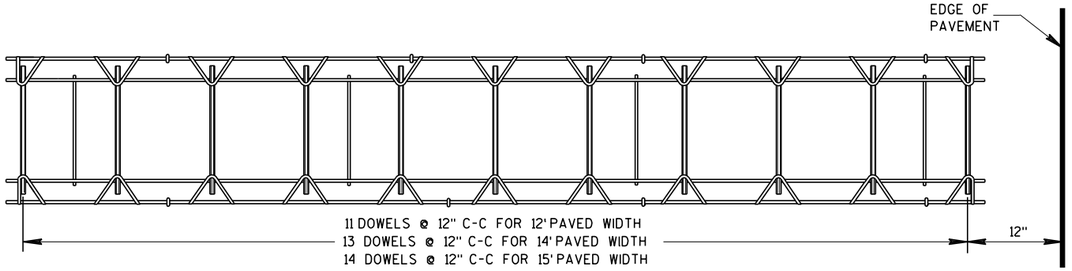
CONTRACTION JOINT LAYOUT
FOR DIVIDED HIGHWAY

RURAL DOWELED CONCRETE PAVEMENT

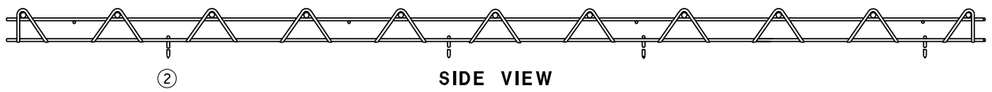
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 13 C 11-12a



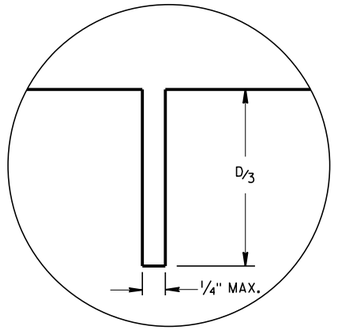
PLAN VIEW



SIDE VIEW

(NORMAL TO CENTERLINE)

CONTRACTION JOINT DOWEL ASSEMBLY ①



JOINT DETAIL

GENERAL NOTES

① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

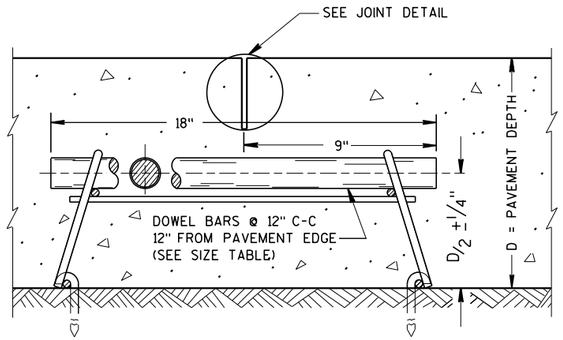
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

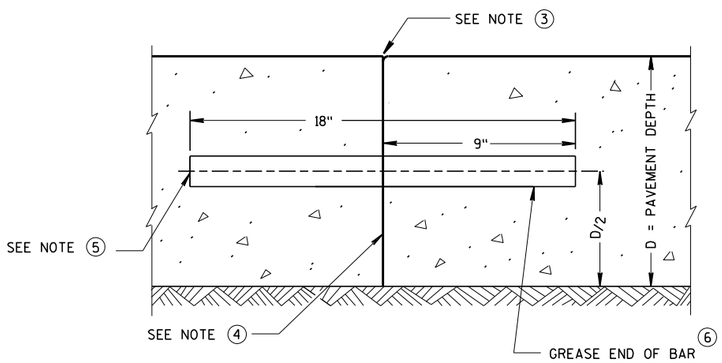
⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

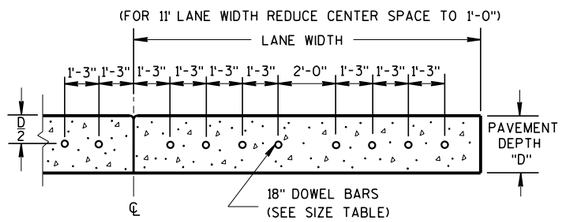
⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



DOWELED CONTRACTION JOINT



TRANSVERSE CONSTRUCTION JOINT



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦

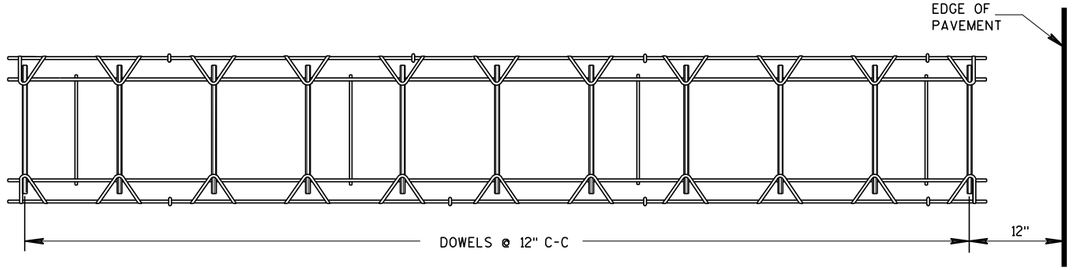
RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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March 2018 — DATE
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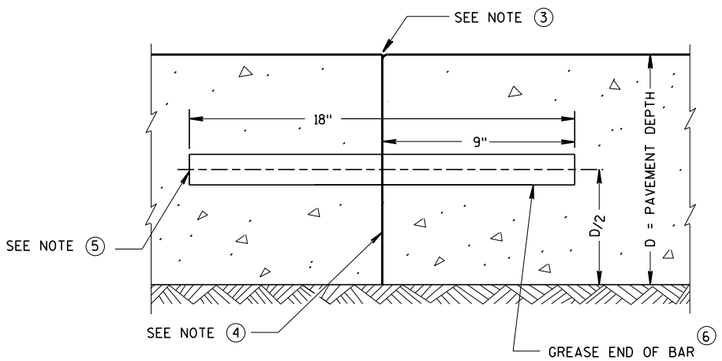


PLAN VIEW

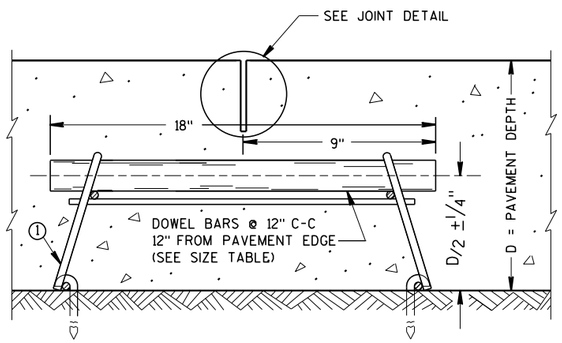


SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



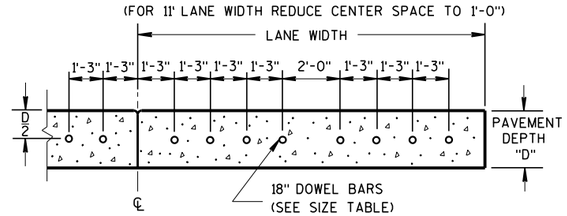
TRANSVERSE CONSTRUCTION JOINT



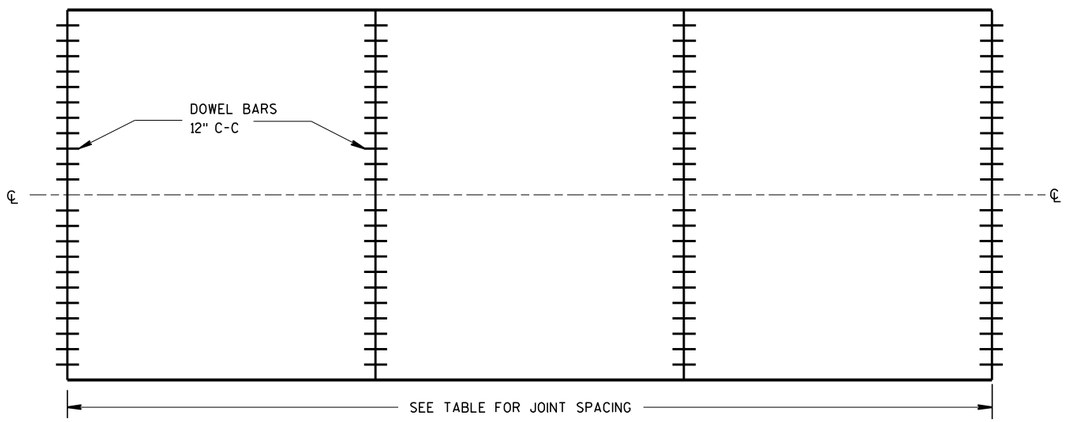
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

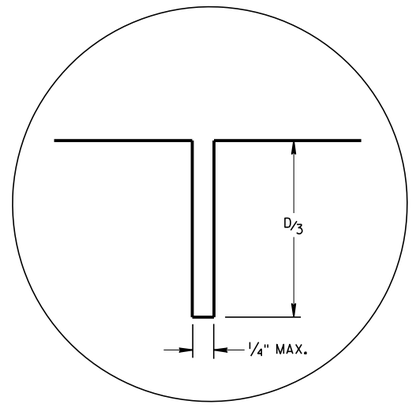
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUP

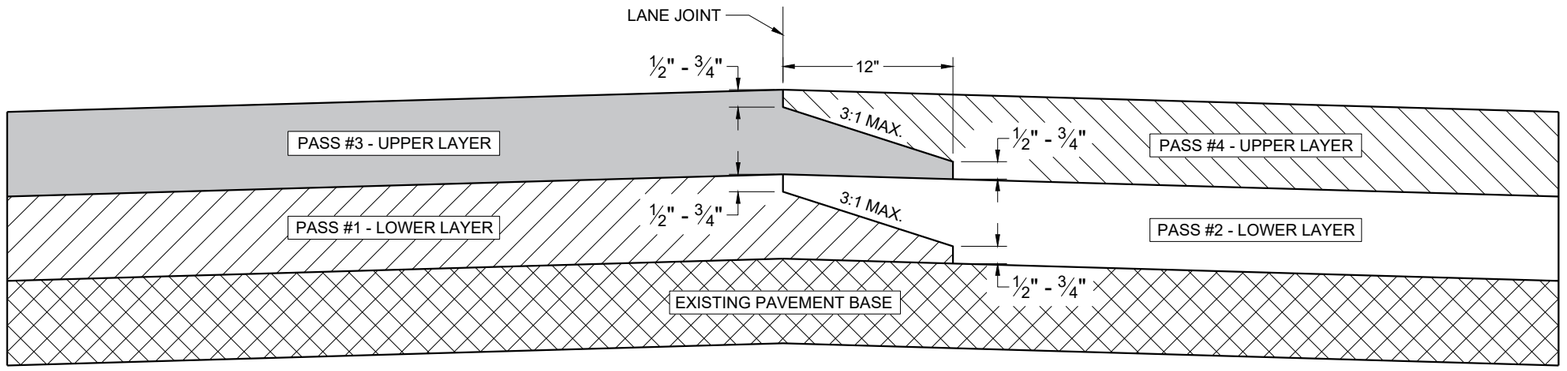
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S.D.D. 13 C 13-9

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

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.

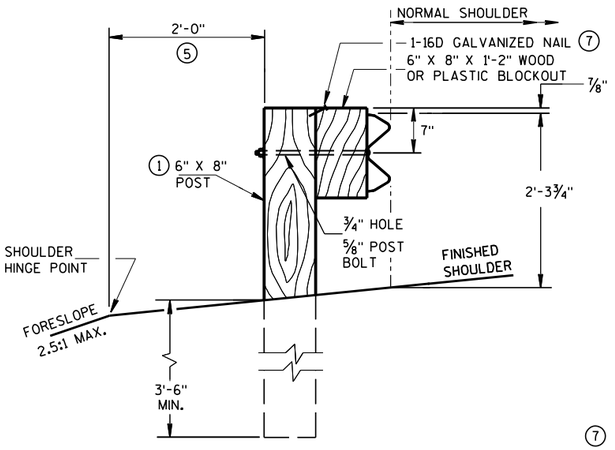
(5) IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).

(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.

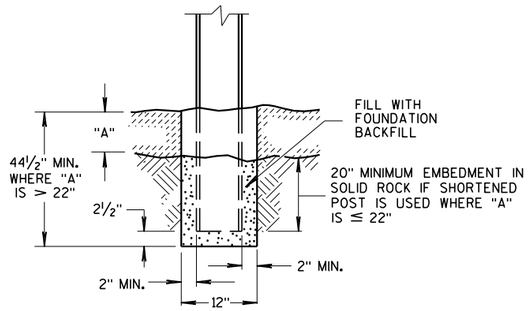
(7) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

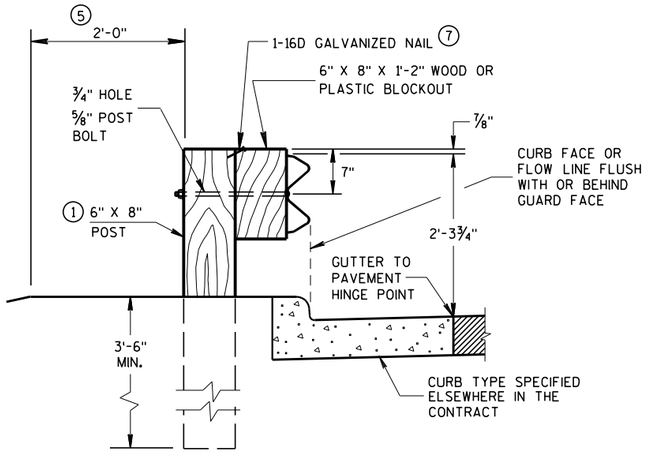
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



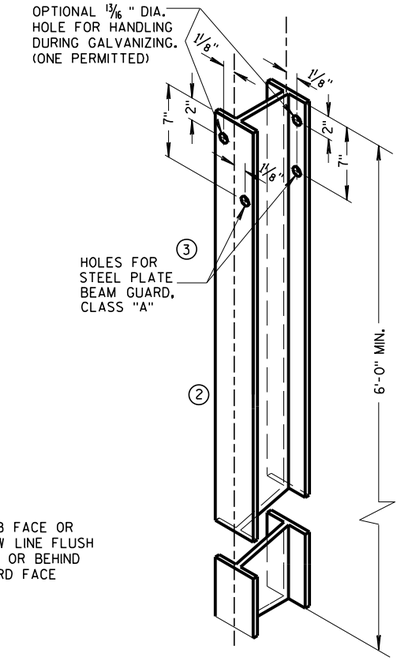
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)

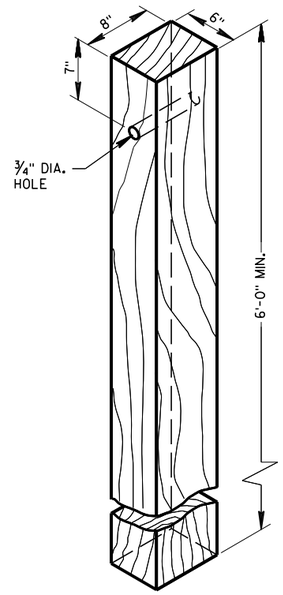


END VIEW
LOCATED ALONG A CURBED ROADWAY

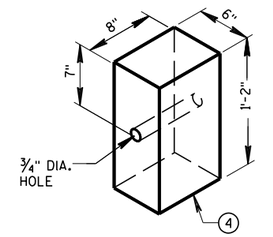


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) (1)

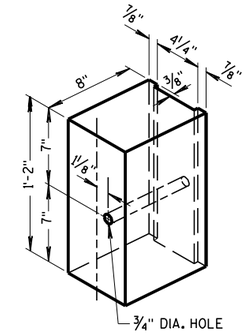
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



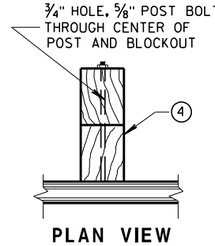
WOOD POST
(6"X8") NOMINAL



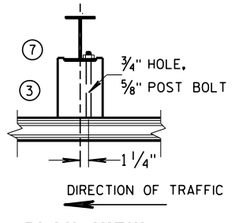
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



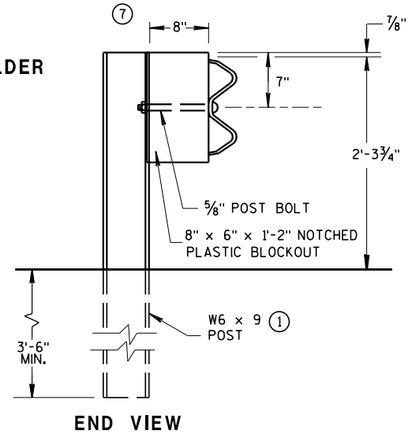
TYPICAL NOTCHED
PLASTIC BLOCKOUT
FOR STEEL POSTS (1)



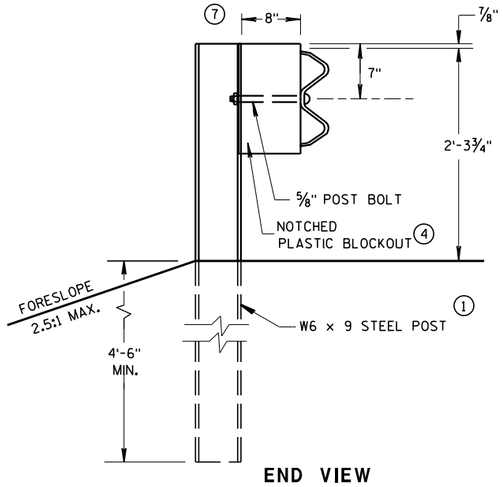
PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



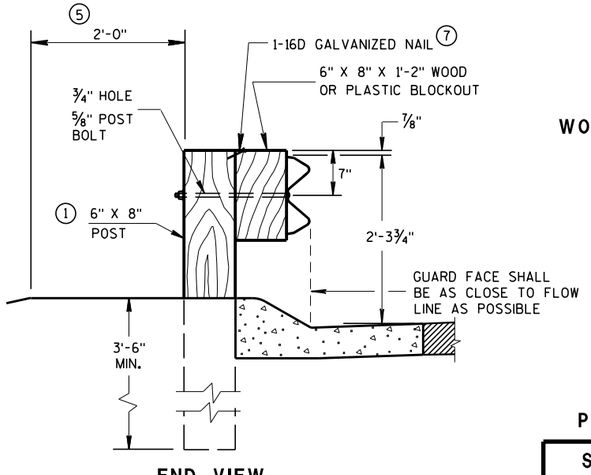
PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM



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

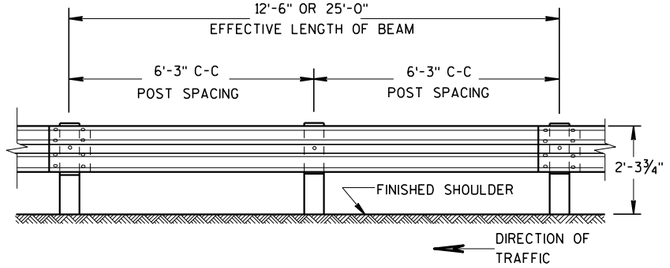
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 15-11a

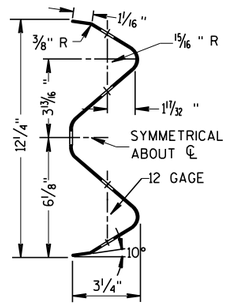
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S.D.D. 14 B 15-11a

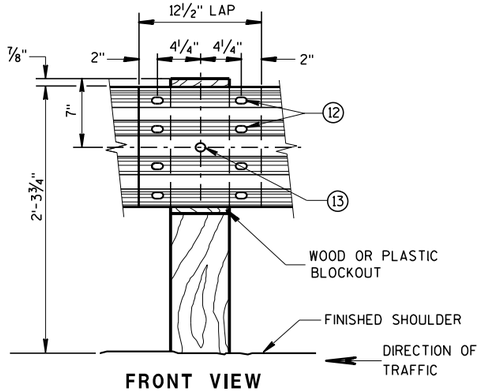


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM



FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

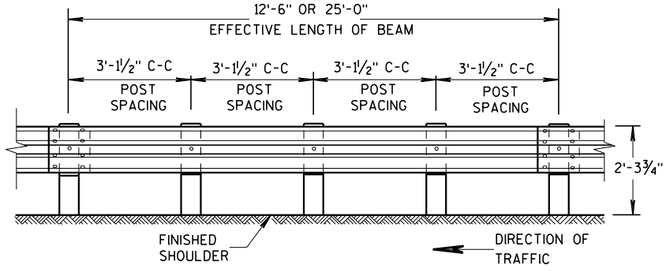
GENERAL NOTES

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.

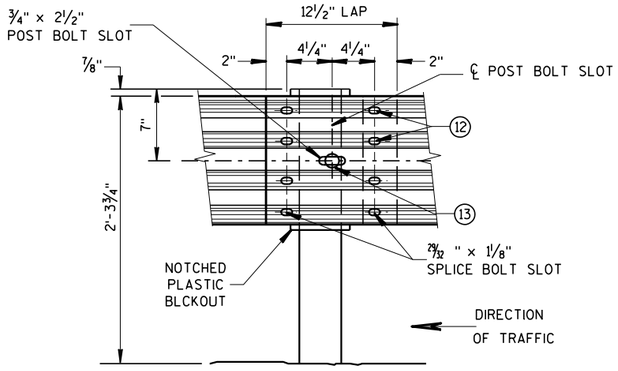
(12) 8 -⅝" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.

(13) ⅝" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH ⅝" DIA. F844 FLAT WASHER UNDER NUT.



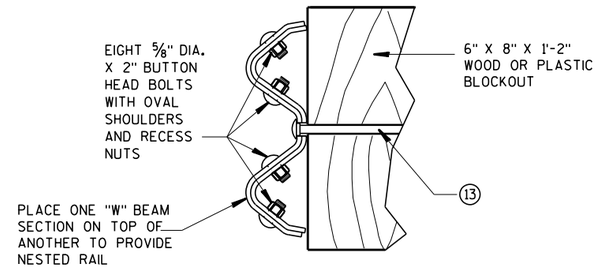
FRONT VIEW

POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST

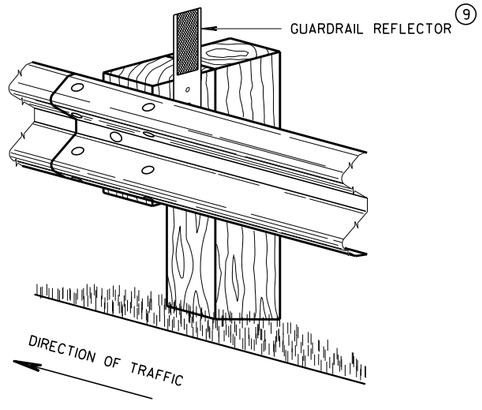


NESTED W BEAM (NW)

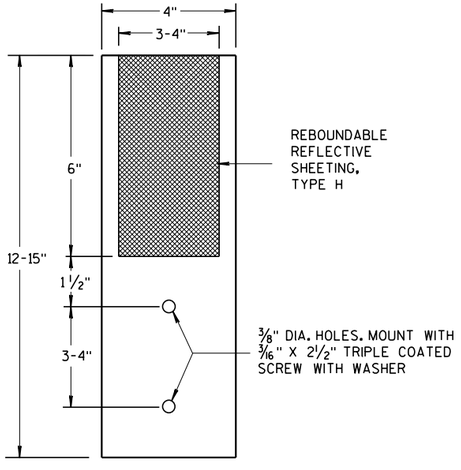
USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

* 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

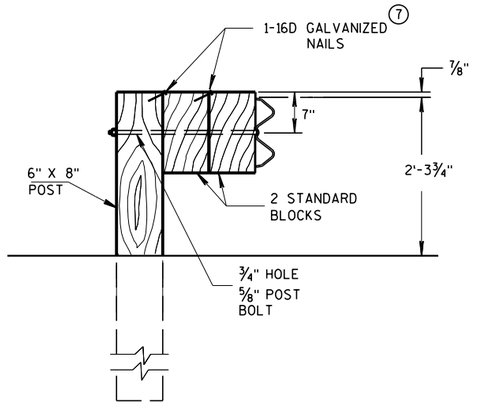
STATE OF WISCO 216
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 15-11b

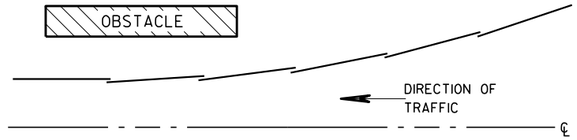
6

S.D.D. 14 B 15-11b

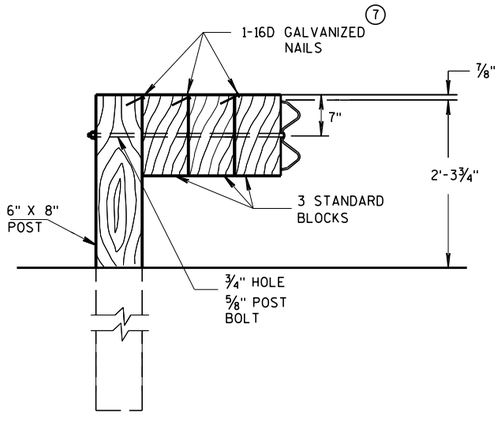


DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

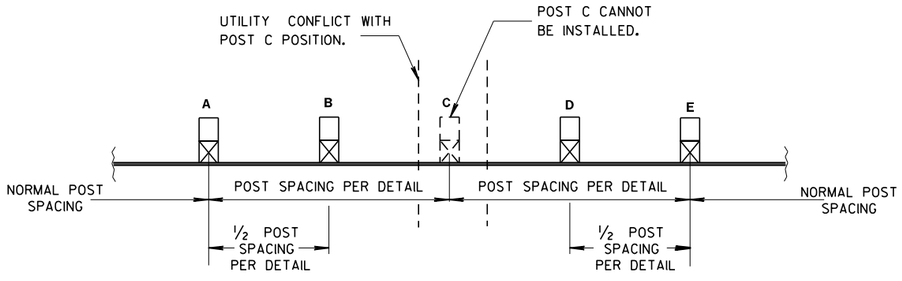


PLAN VIEW
BEAM LAPPING DETAIL



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.

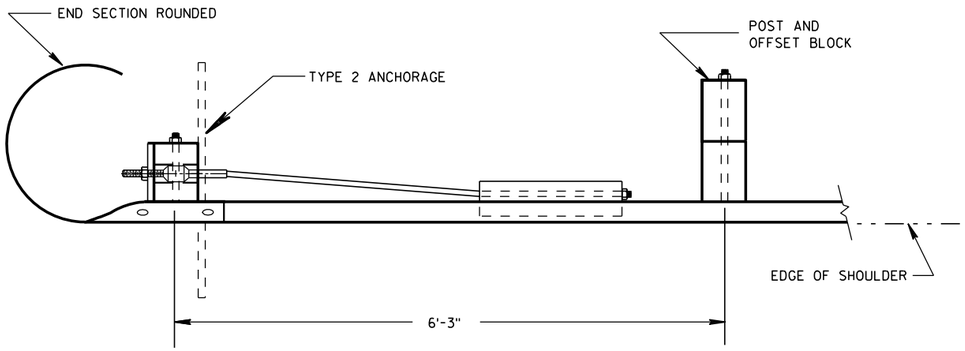
DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

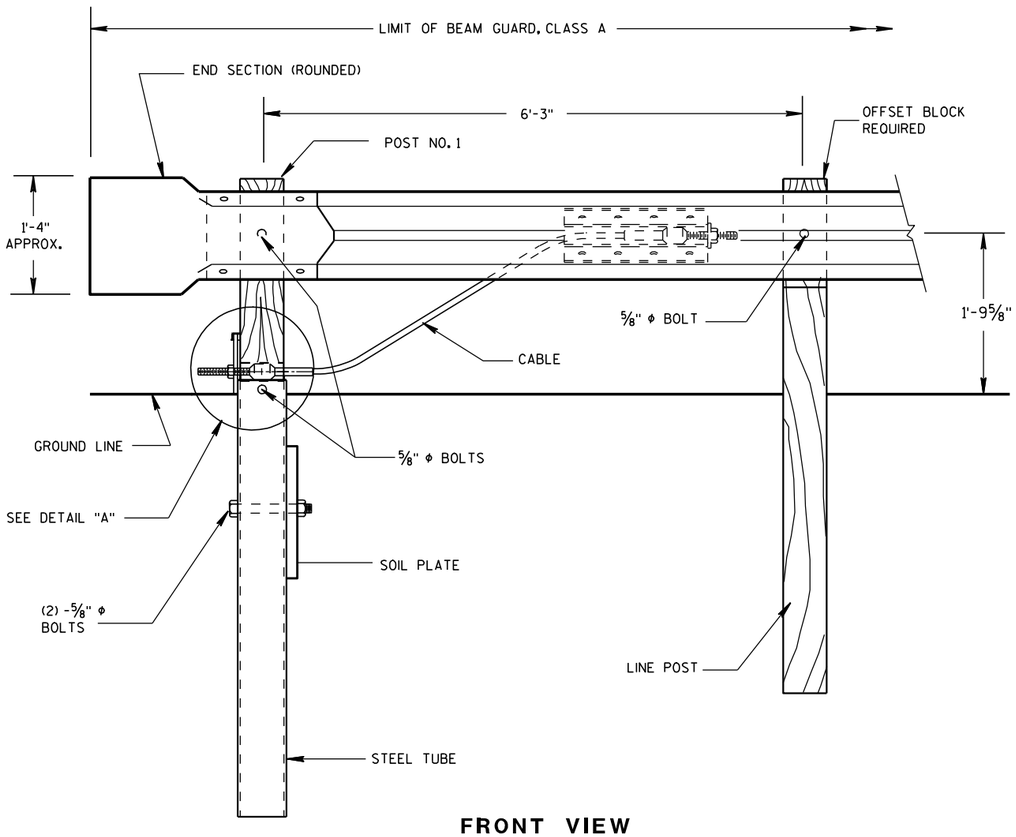
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6
S.D.D. 14 B 15-11c



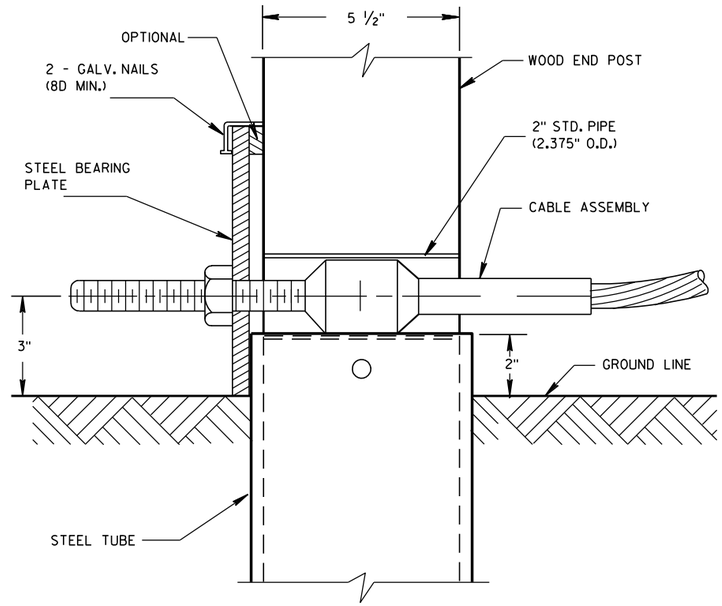
PLAN VIEW



FRONT VIEW

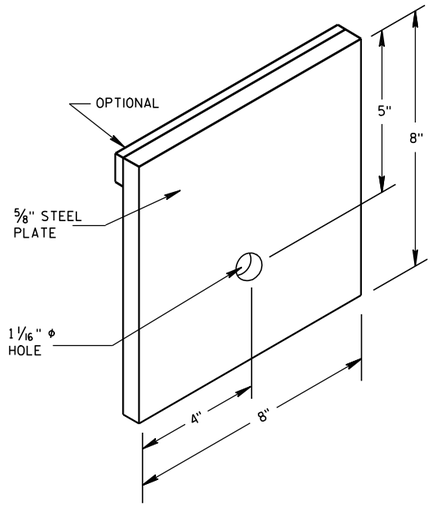
END TREATMENT WITH TYPE 2 ANCHORAGE

(USE ON ONE-WAY ROADWAYS ONLY - DEPARTING END)



DETAIL "A"

POST NO. 1



STEEL BEARING PLATE

ANCHORAGE FOR STEEL
PLATE BEAM GUARD
TYPE 2

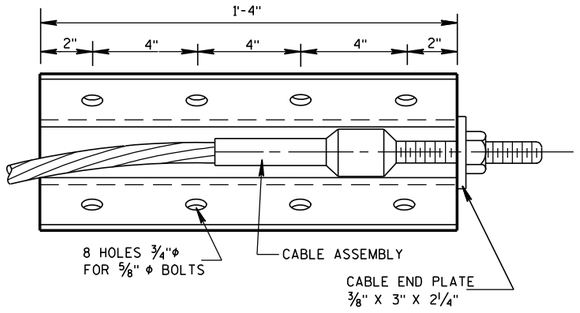
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

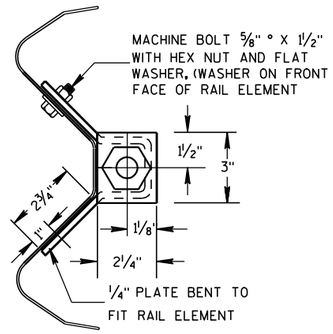
S.D.D. 14 B 16-4a

6

S.D.D. 14 B 16-4a

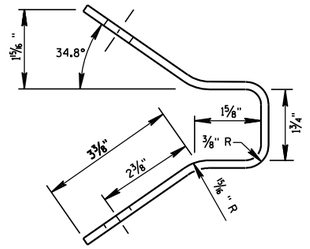


FRONT VIEW

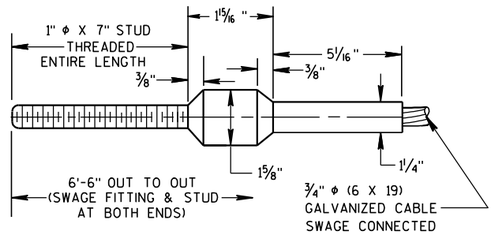


END VIEW

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)

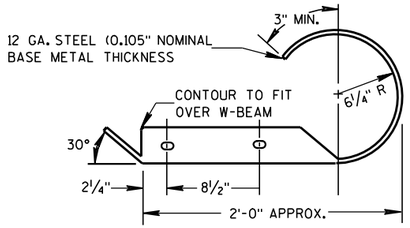
GENERAL NOTES

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.

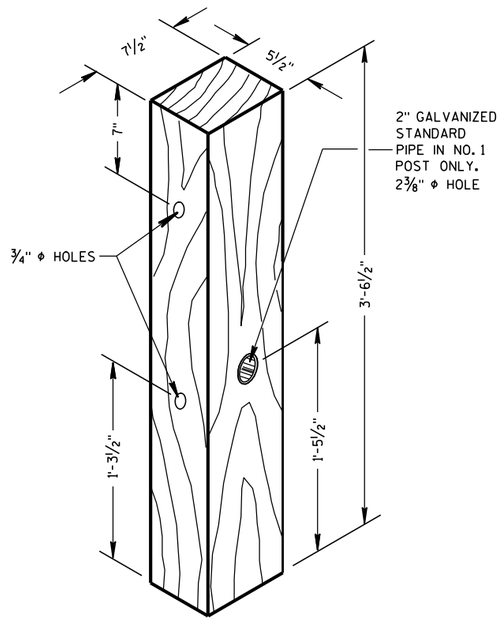
STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-500 GRADE B OR ASTM A-501.

POST NO. 1 SHALL BE WOOD BREAKAWAY POST INSERTED AND BOLTED INTO STEEL TUBE.

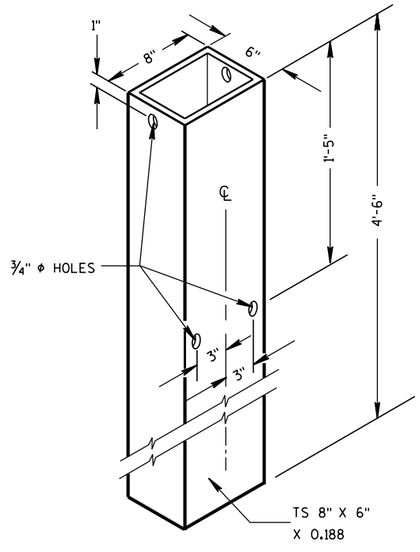
TYPE 2 ANCHORAGE SHALL CONSIST OF A STEEL TUBE, SOIL PLATE WOOD BREAKAWAY POST, BEARING PLATE, ANCHOR PLATE, CABLE ASSEMBLY AND ALL ASSOCIATED HARDWARE, ALL STEEL PARTS SHALL BE GALVANIZED.



PLAN VIEW

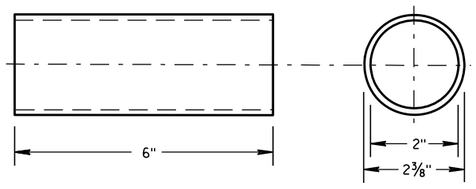


WOOD BREAKAWAY POST



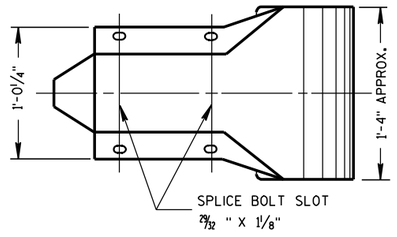
STEEL TUBE

STEEL TUBE SHALL CONFORM TO
REQUIREMENTS OF ASTM A500

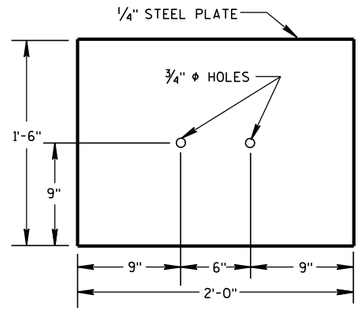


BREAKAWAY TERMINAL POST SLEEVE

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

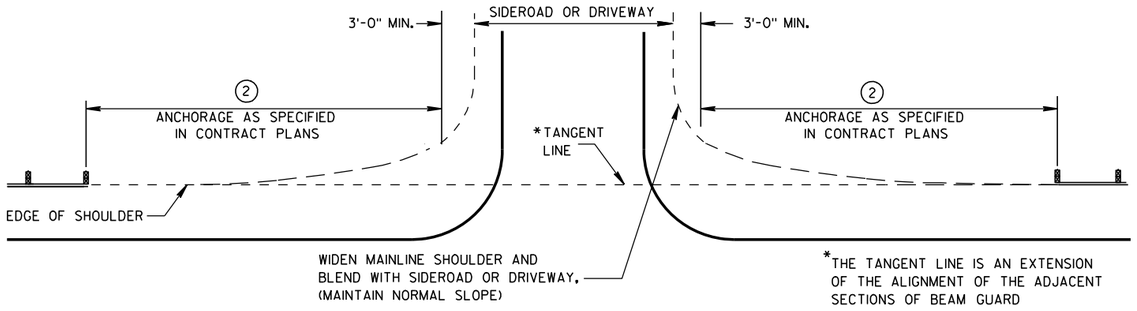
APPROVED
8/21/2007
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
219
FHWA

6

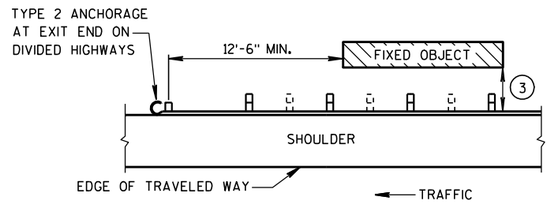
S.D.D. 14 B 16-4b

6

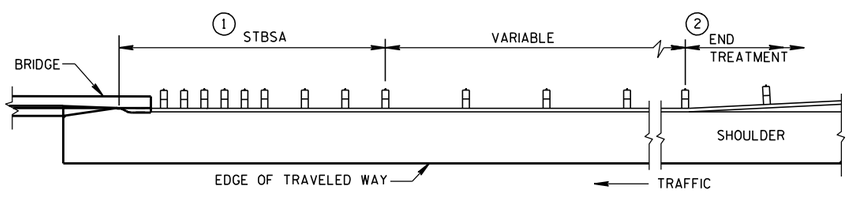
S.D.D. 14 B 16-4b



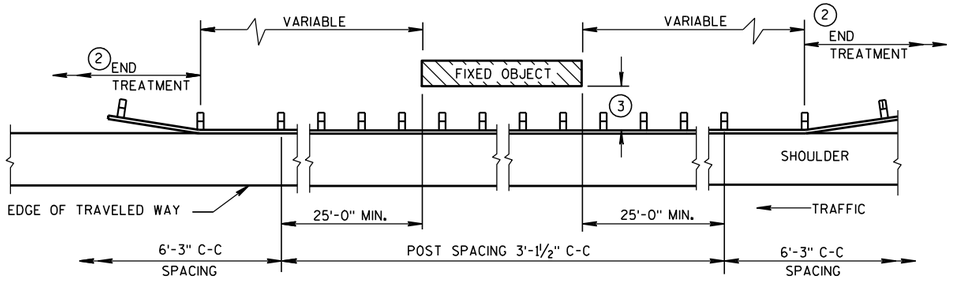
BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES EXIT END - ONE WAY TRAFFIC

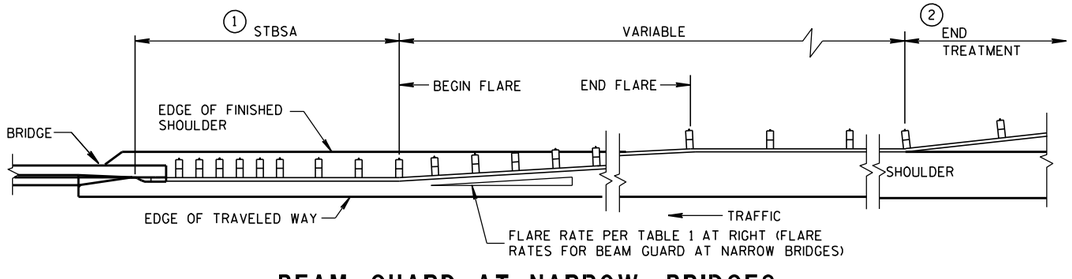


BEAM GUARD AT FULL WIDTH BRIDGES



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)

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

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"

STEEL PLATE BEAM GUARD CLASS "A" AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS

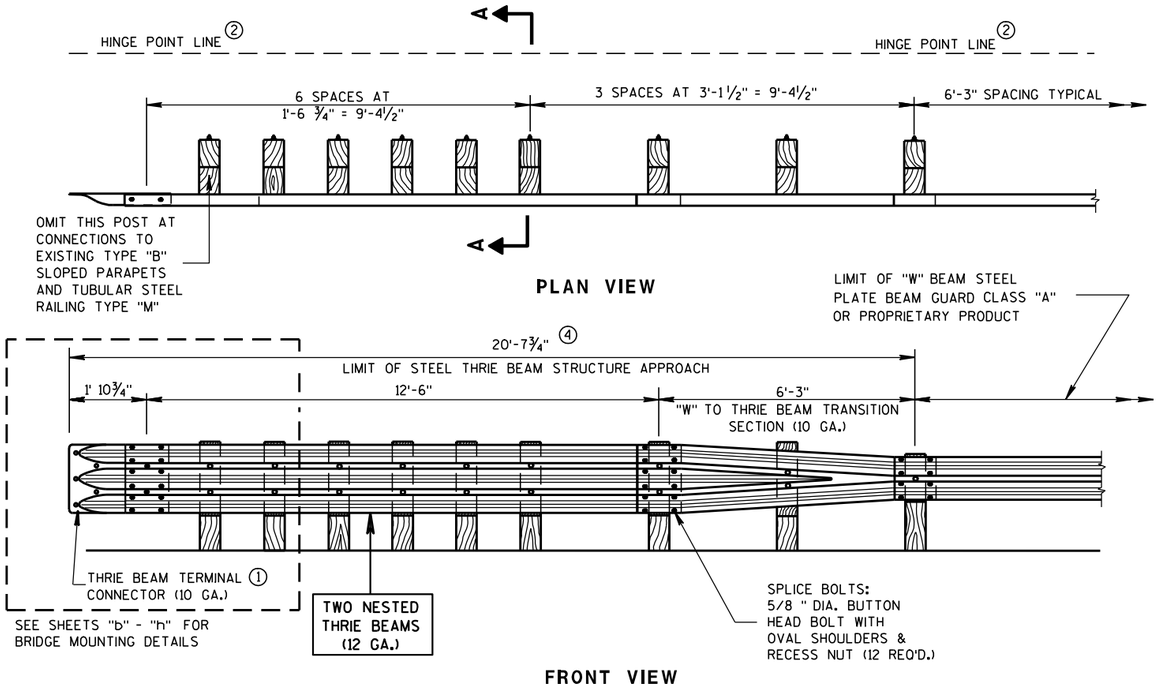
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8-21-07
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA



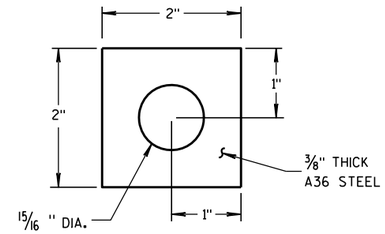


PLATE WASHER DETAIL

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.

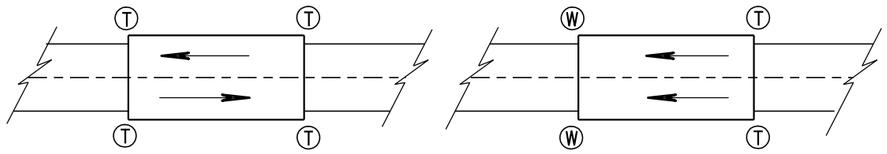
IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2 1/2" , AND 12" DIAMETER AROUND POST. SEE 14B15 FOR MORE DETAILS.

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.



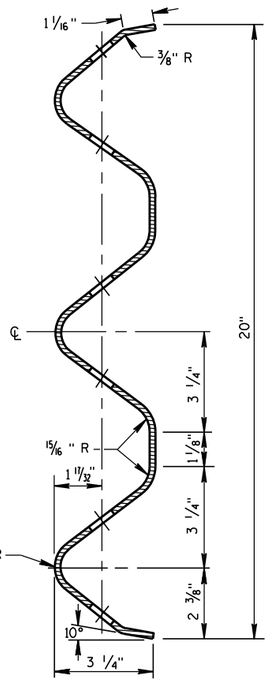
TWO WAY TRAFFIC

ONE WAY TRAFFIC

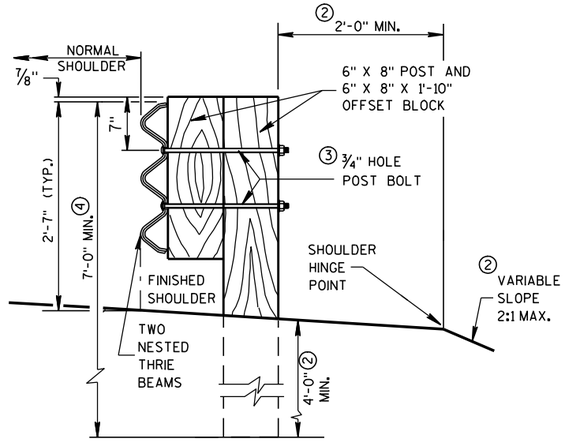
Ⓣ THRIE BEAM CONNECTION

Ⓦ W-BEAM CONNECTION WHEN REQUIRED

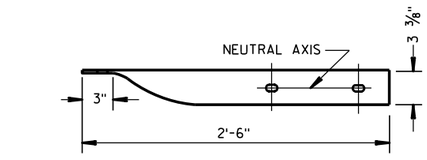
TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

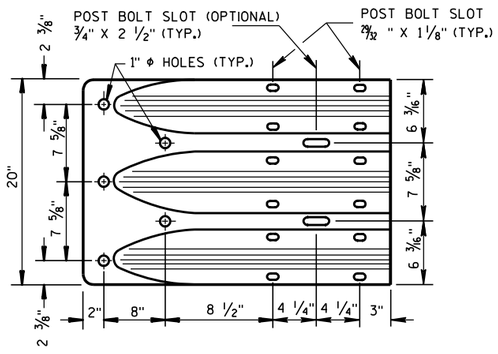


SECTION THRU THRIE BEAM RAIL ELEMENT

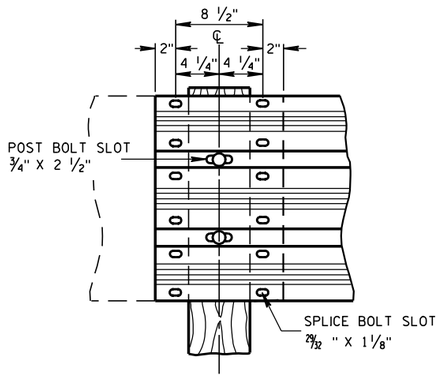


SECTION A-A





THRIE BEAM TERMINAL CONNECTOR



THRIE BEAM SPLICE

STEEL THRIE BEAM STRUCTURE APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

221

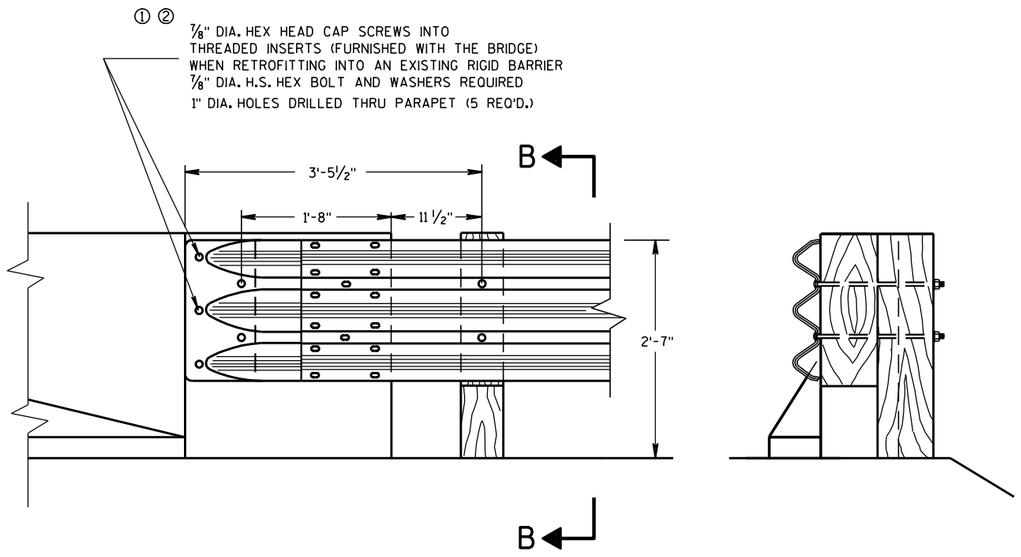
FHWA

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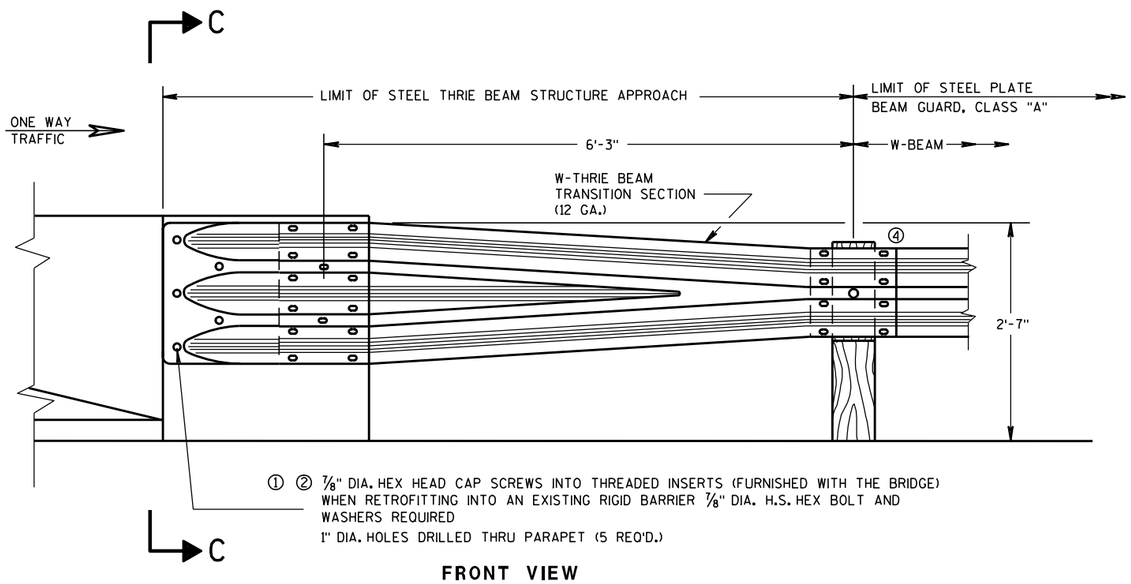
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FRONT VIEW

SECTION B-B

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS



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)

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.

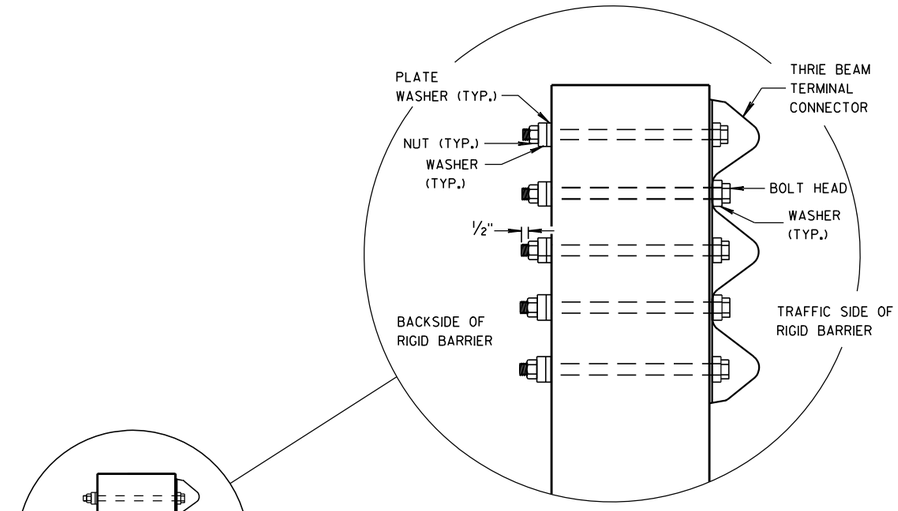
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

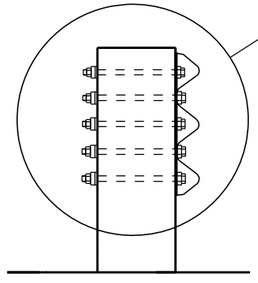
② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM TERMINAL CONNECTOR. 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

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 [222
ENGINEER
FHWA

6

S.D.D. 14 B 20-11b

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(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.

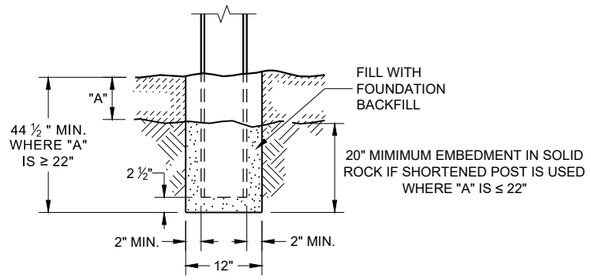
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL 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).

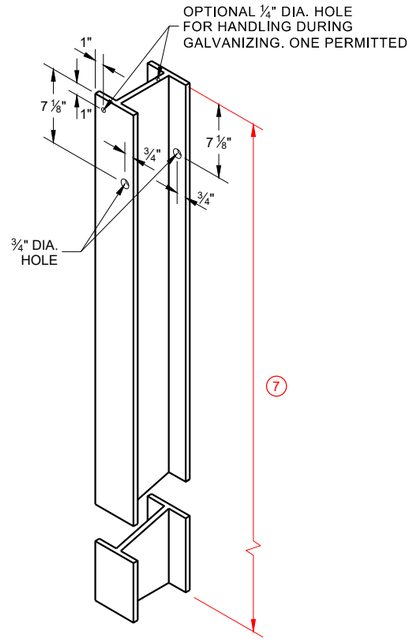
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(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.

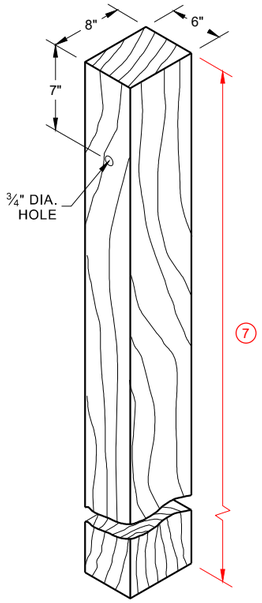
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



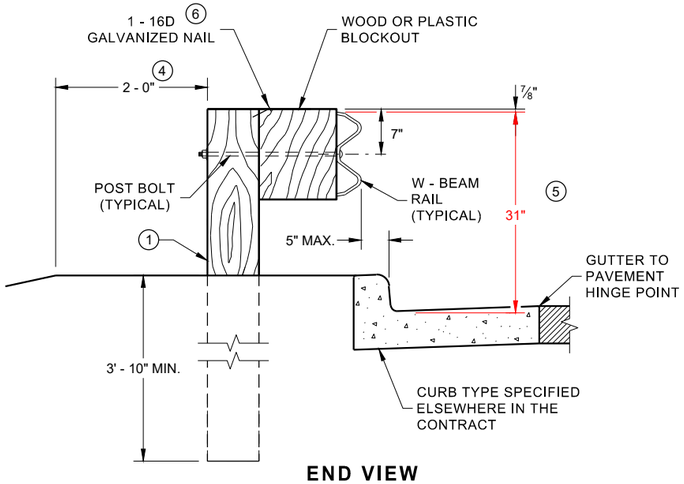
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



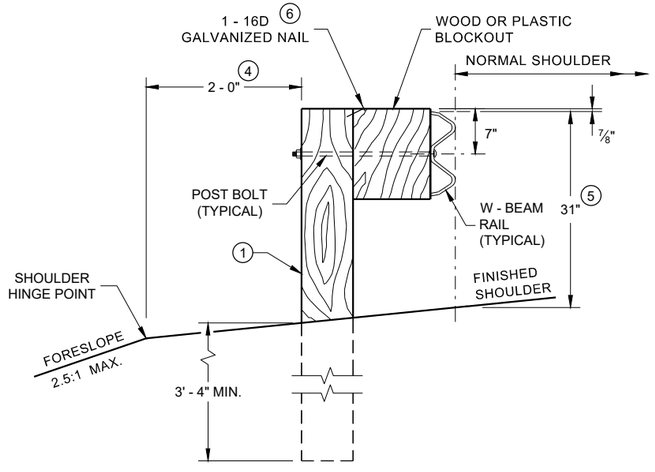
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



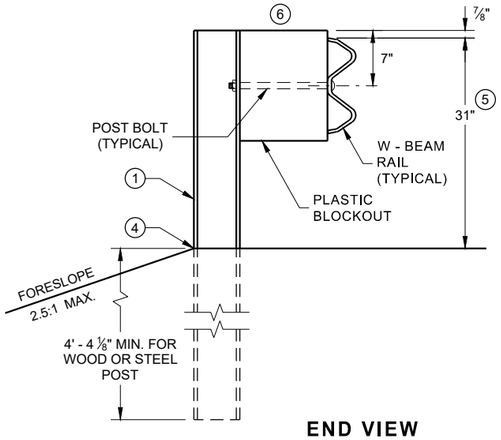
WOOD POST (6" X 8") NOMINAL (1)



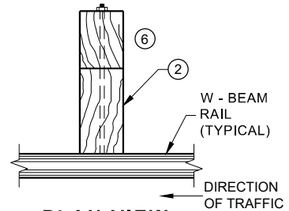
END VIEW
LOCATED ALONG A CURBED ROADWAY



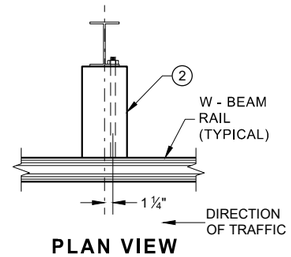
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



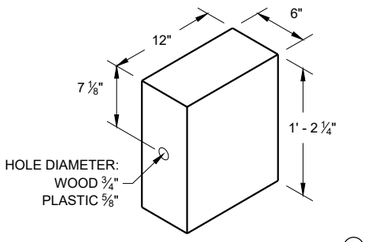
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

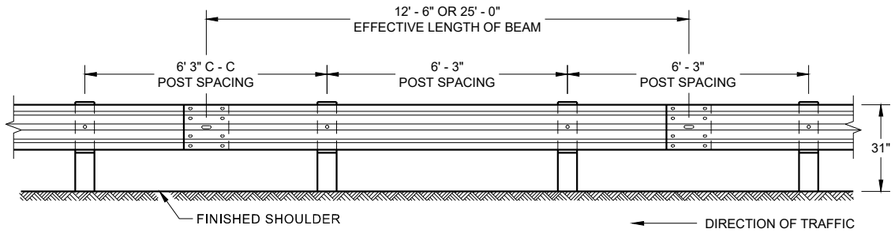
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

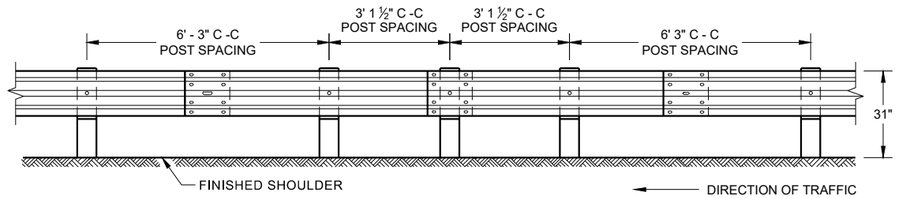
SDD 14B42 - 06a

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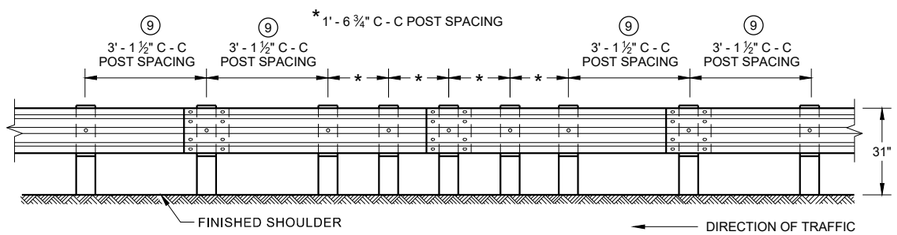
SDD 14B42 - 06a



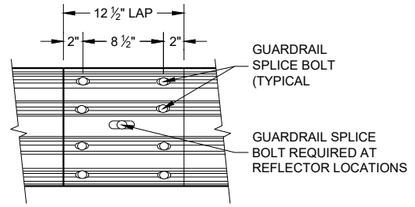
FRONT VIEW
POST SPACING STANDARD INSTALLATION



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

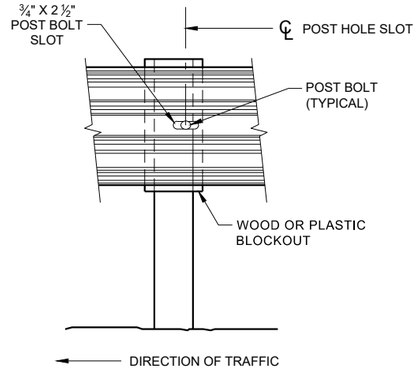
GENERAL NOTES

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.

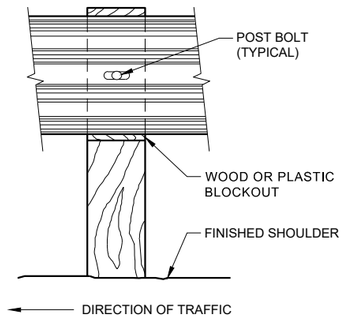
⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

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.

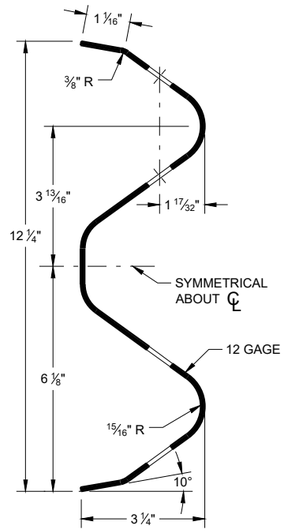
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



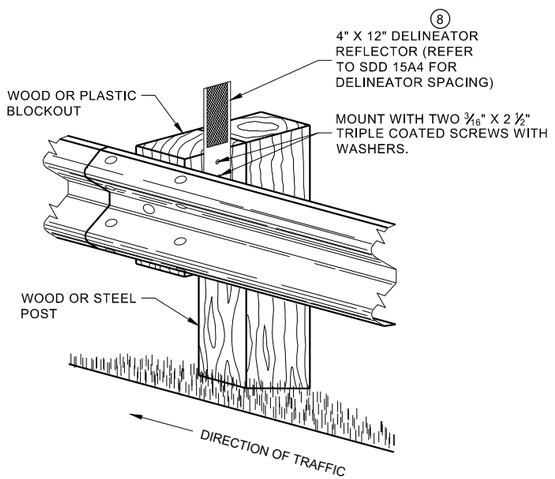
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



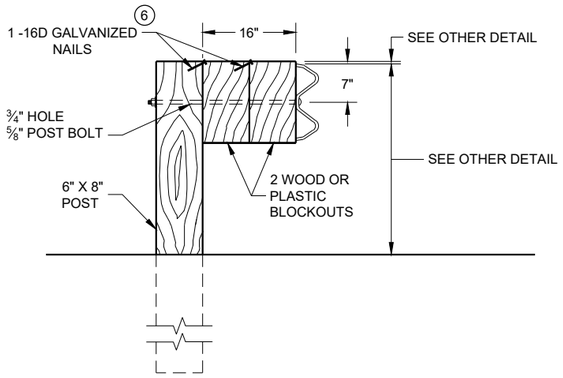
ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

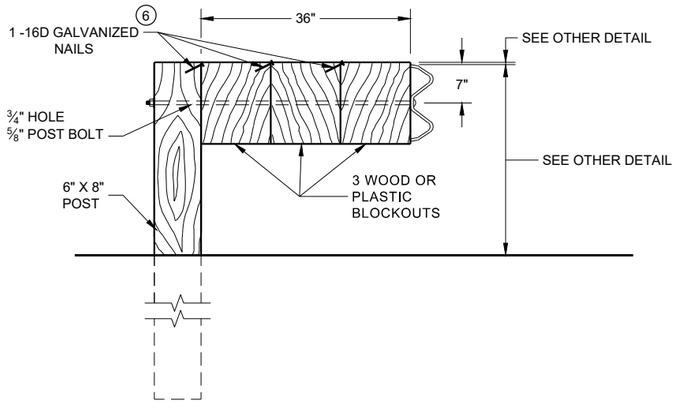
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SDD 14B42 - 06b



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.



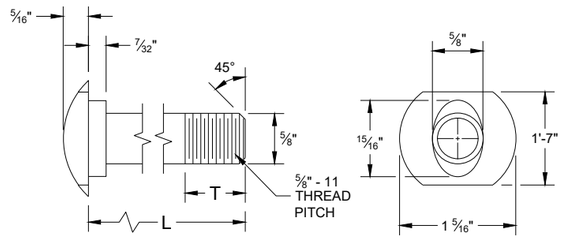
DETAIL FOR 36" BLOCKOUT DEPTH

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.

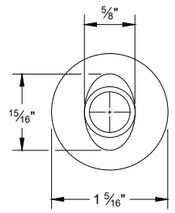
NOTE:

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.

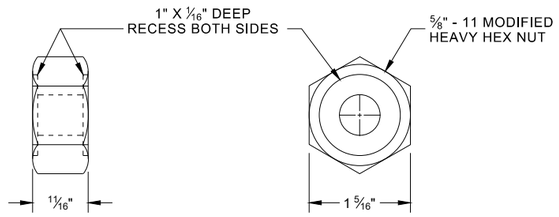


POST BOLT TABLE

L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"

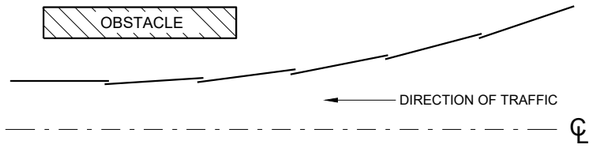


ALTERNATE BOLT HEAD

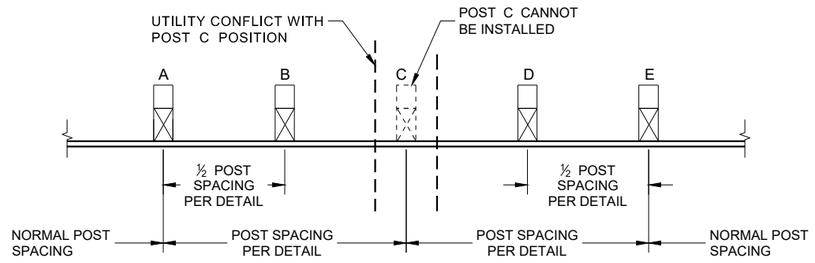


POST BOLT, SPLICE BOLT AND RECESS NUT

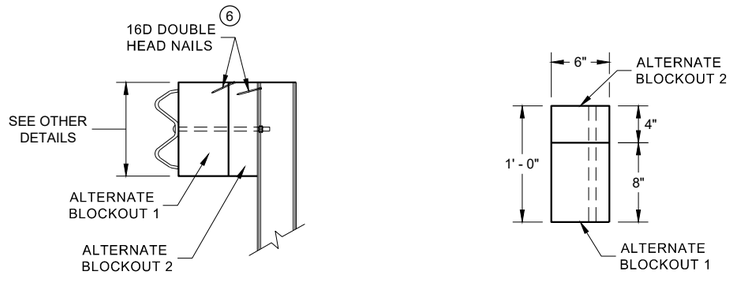
(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



PLAN VIEW
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW

PLAN VIEW

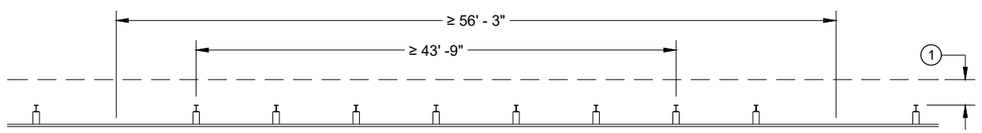
ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

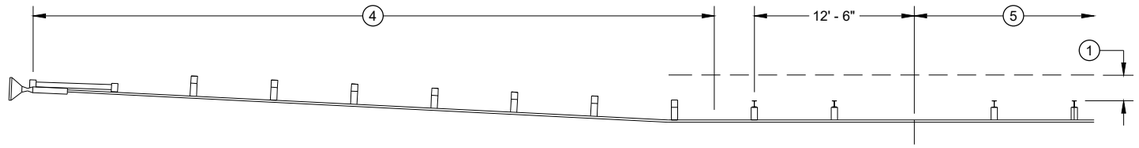
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

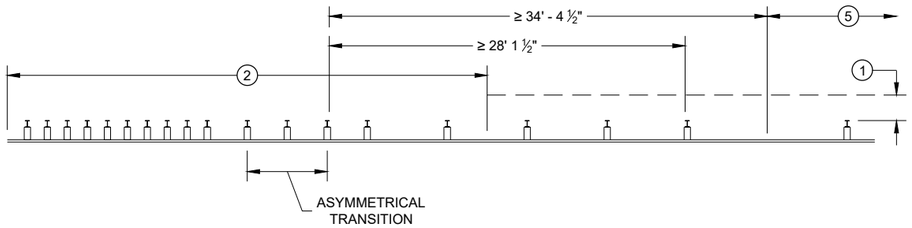
SDD 14B42 - 06c



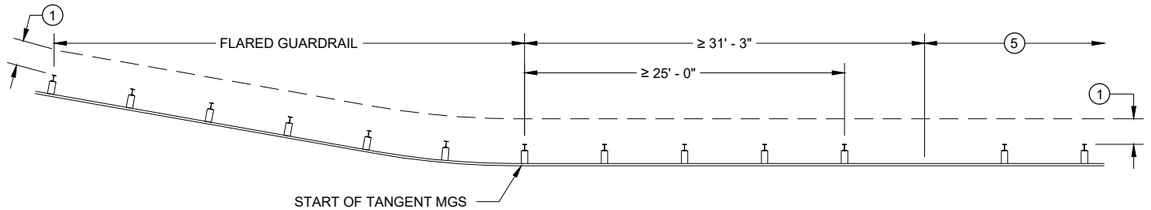
MISSING POST IN NORMAL BEAM GUARD RUN



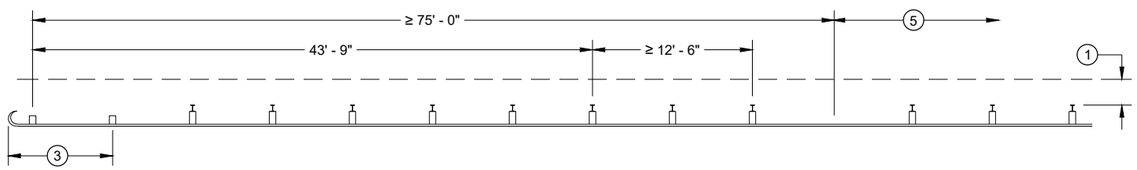
MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



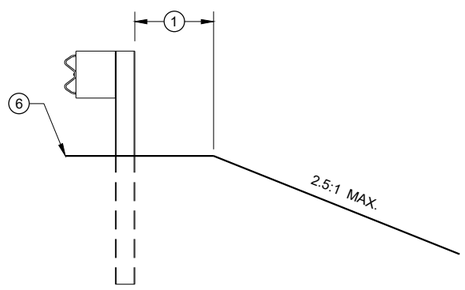
MISSING POST NEAR APPROACH THRIE BEAM TRANSITION



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

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SDD 14B42 - 06d

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SDD 14B42 - 06d

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.

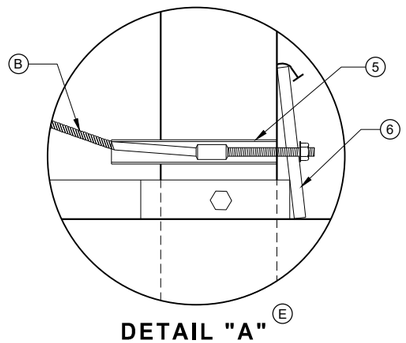
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

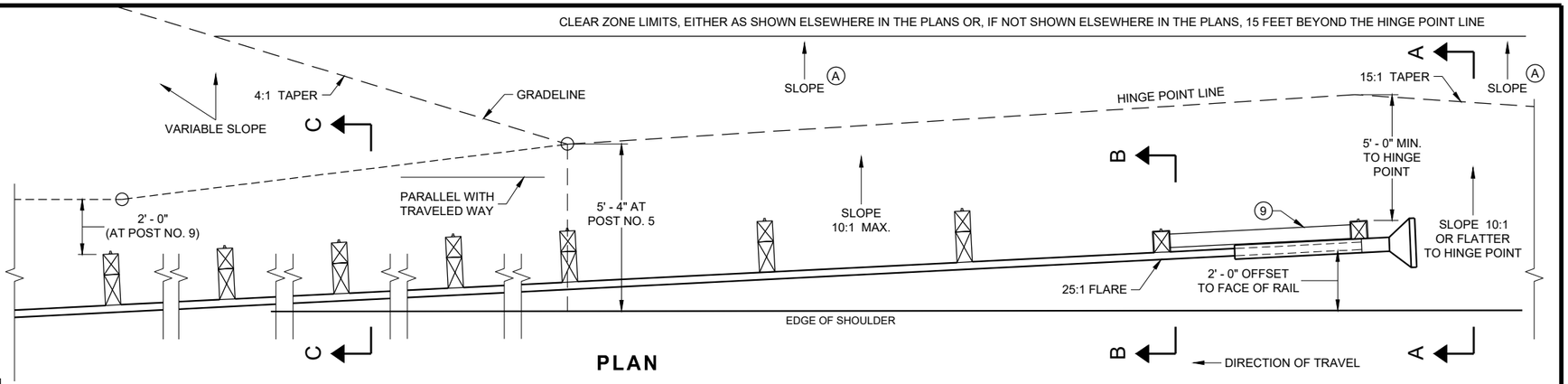
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

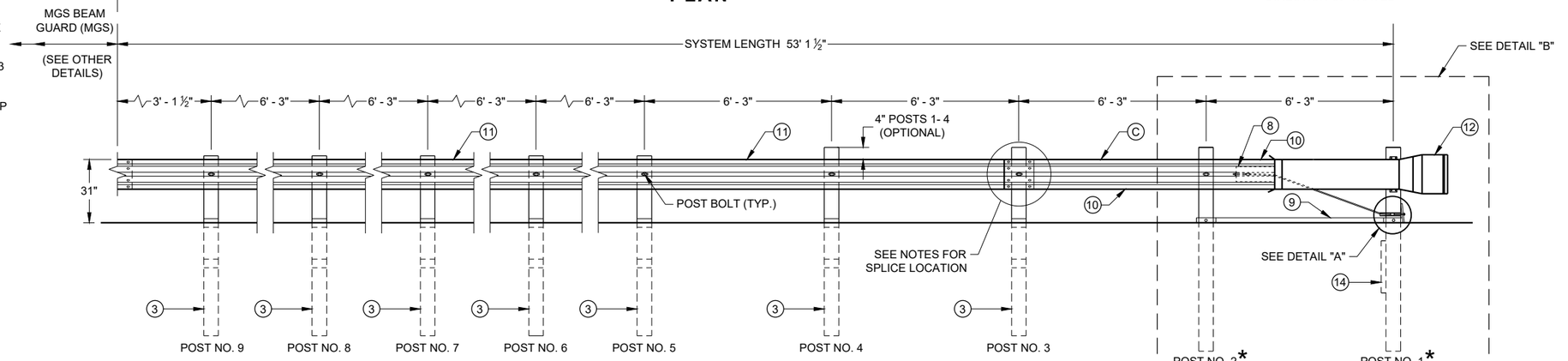
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



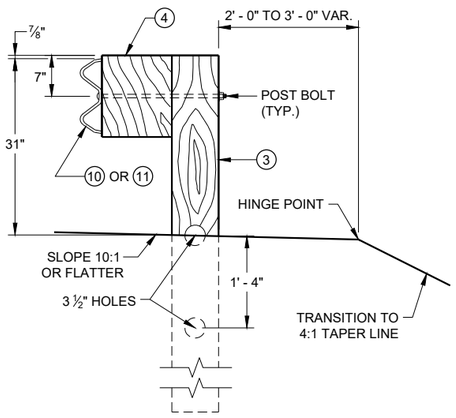
DETAIL "A" (E)



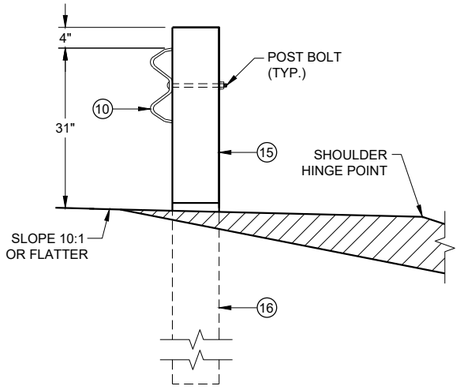
PLAN



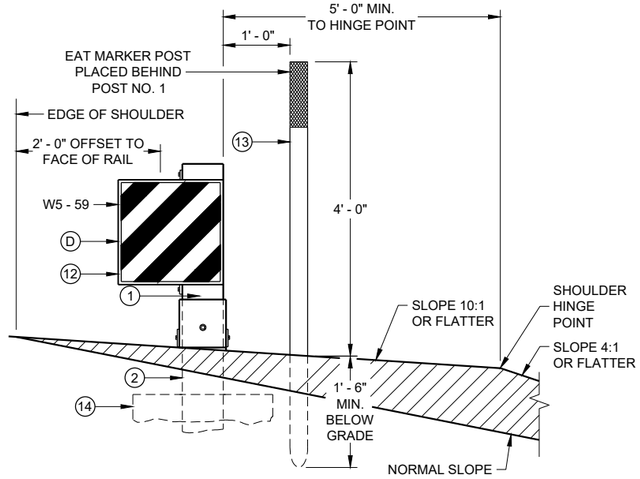
ELEVATION



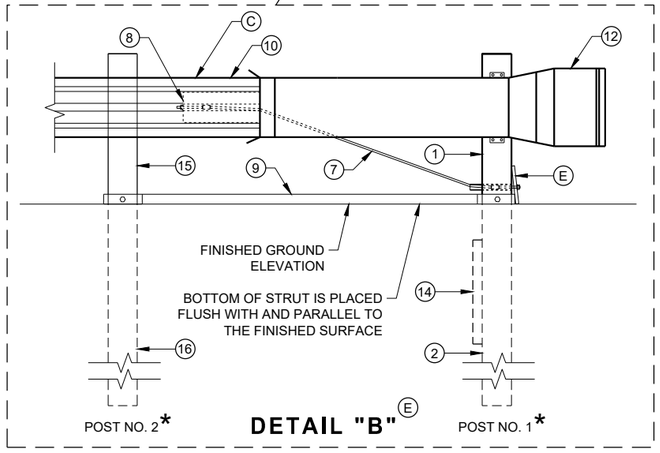
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



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)

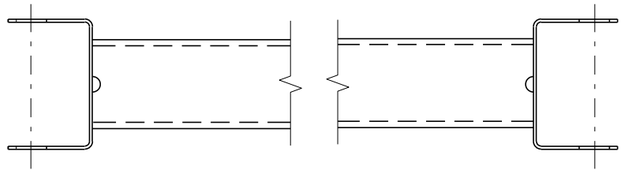
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

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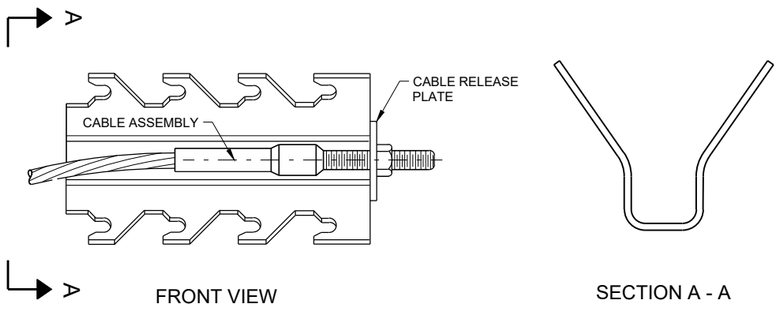
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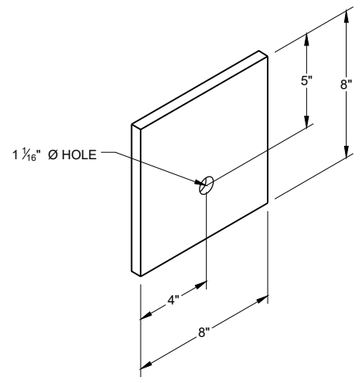
GENERIC GROUND STRUT ⑨ Ⓔ

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

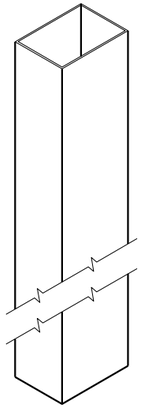
6

SDD 14B44 - 04b

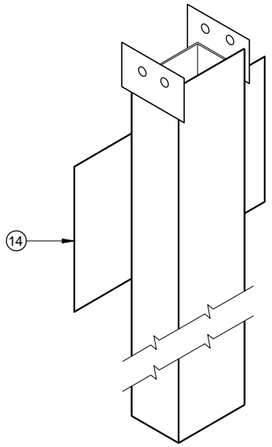
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

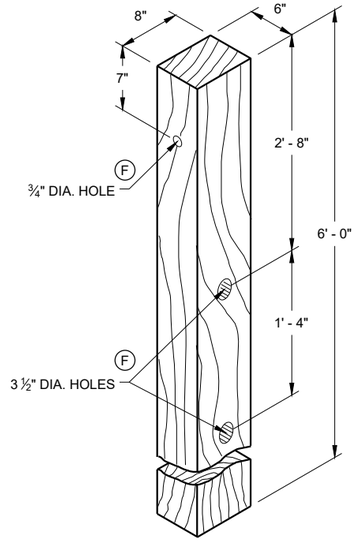
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



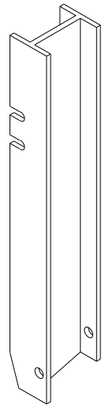
UPPER POST NO. 1 (1) (E)



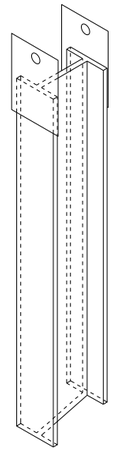
LOWER POST NO. 1 (2) (E)



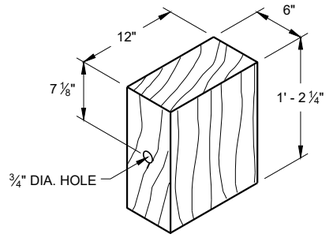
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



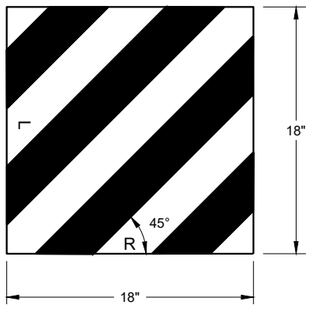
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

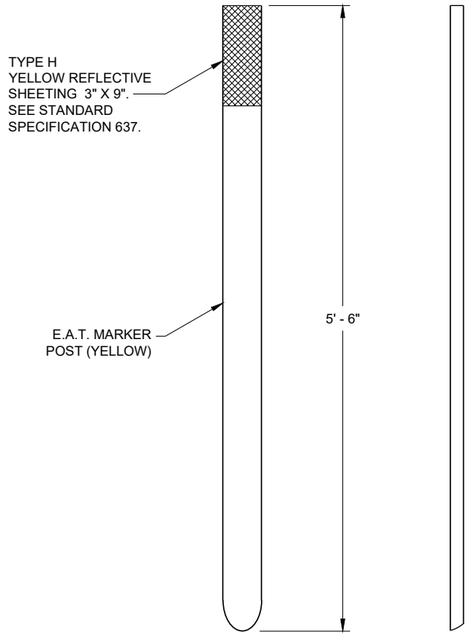


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



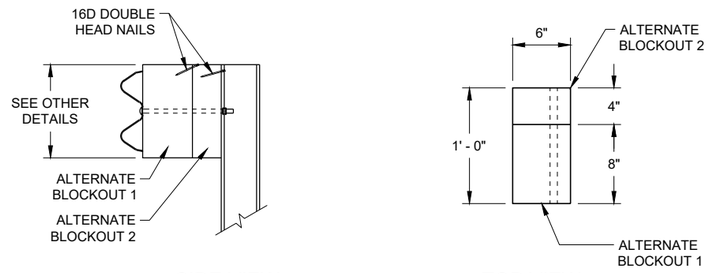
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

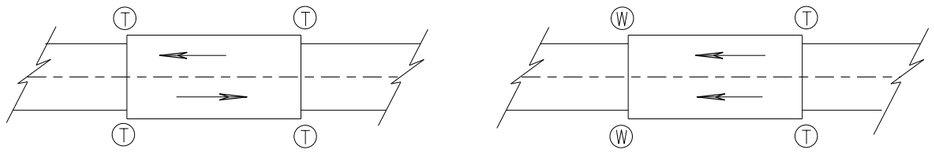
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

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.

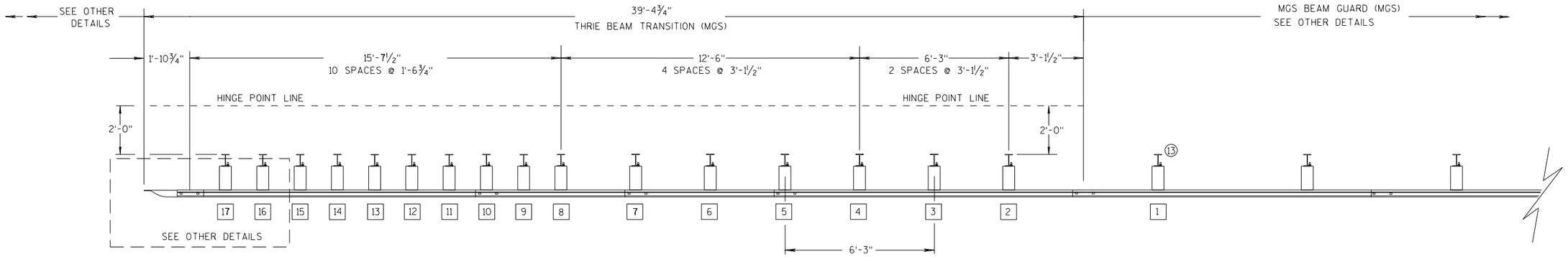
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

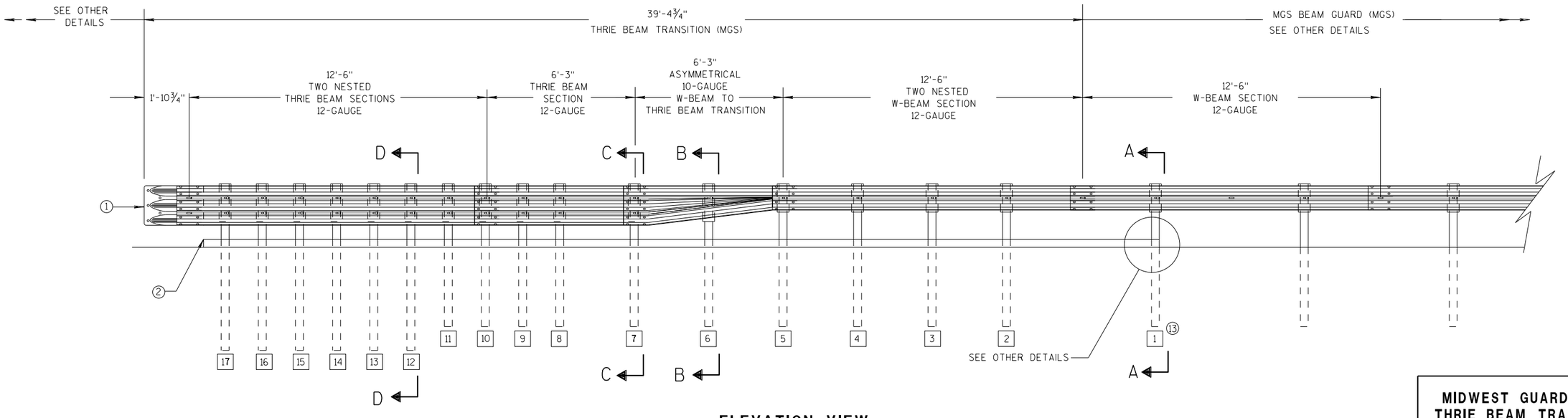
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(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

6

S.D.D. 14 B 45-5a

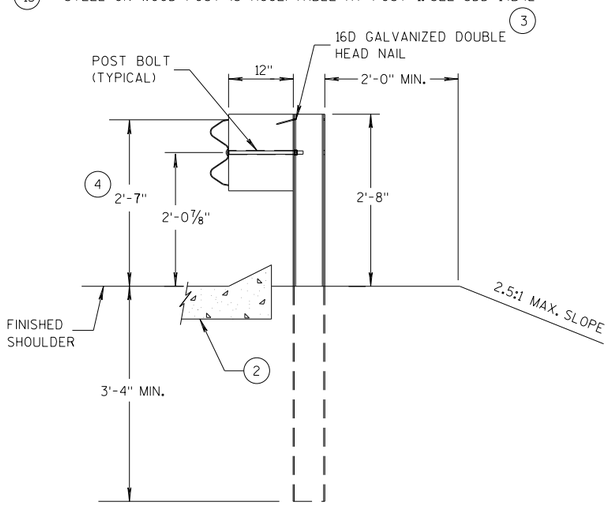
GENERAL NOTES

(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.

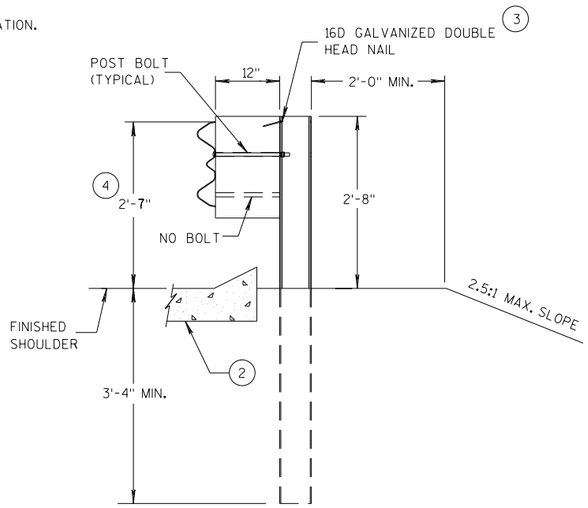
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



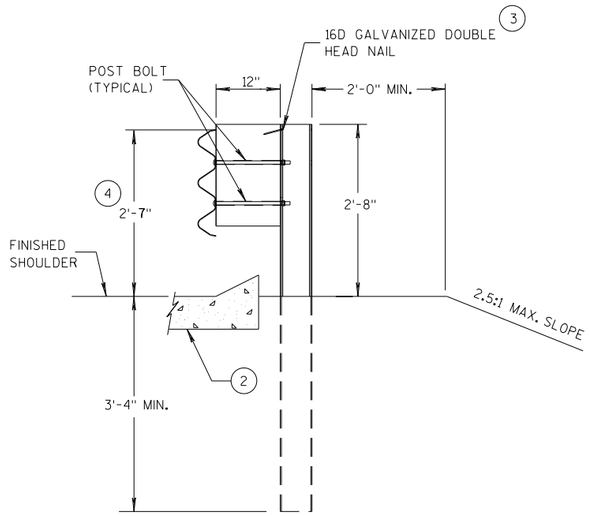
SECTION A-A (13)

POSTS 1-5



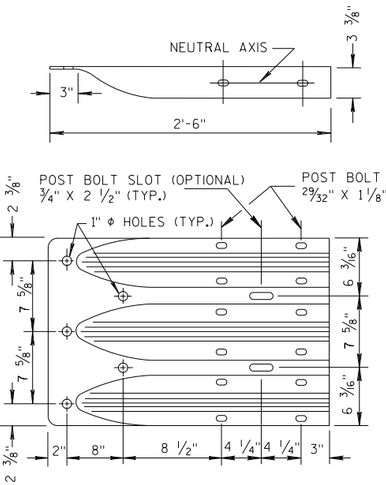
SECTION B-B

POST 6

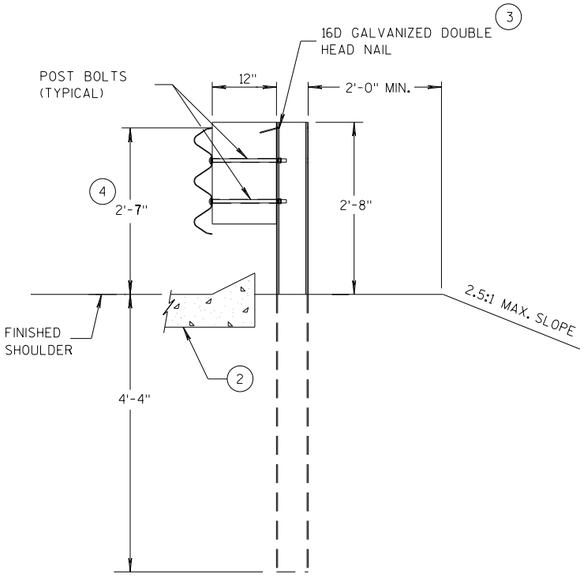


SECTION C-C

POSTS 7-11

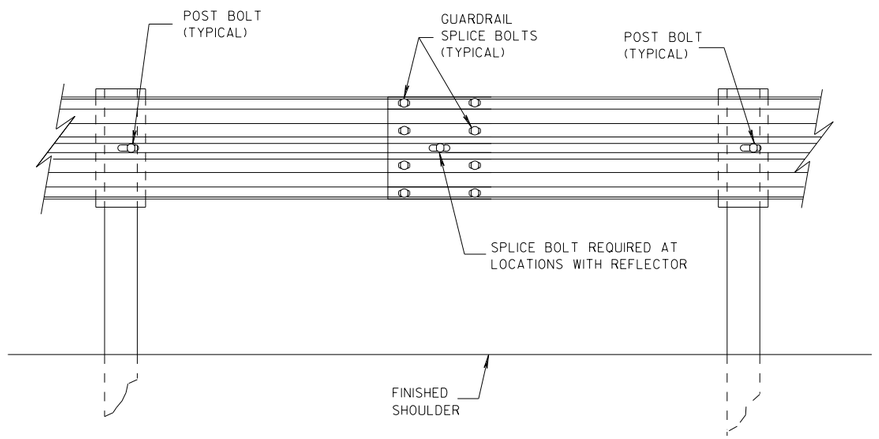


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

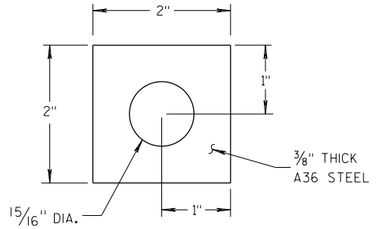
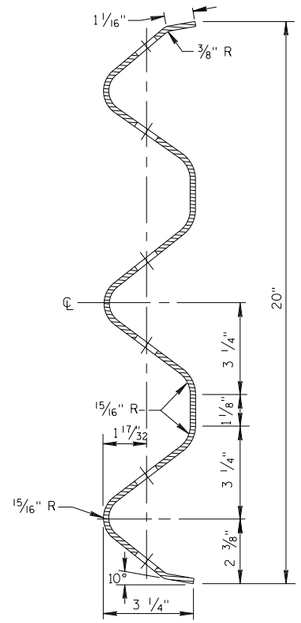


PLATE WASHER DETAIL



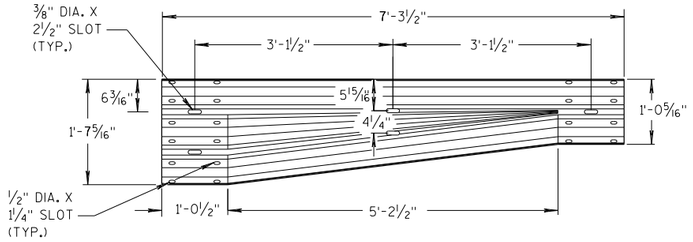
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

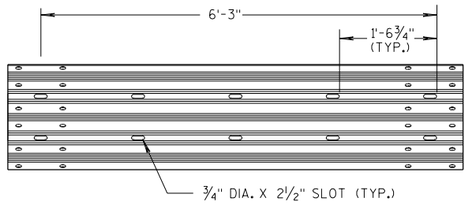
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

6

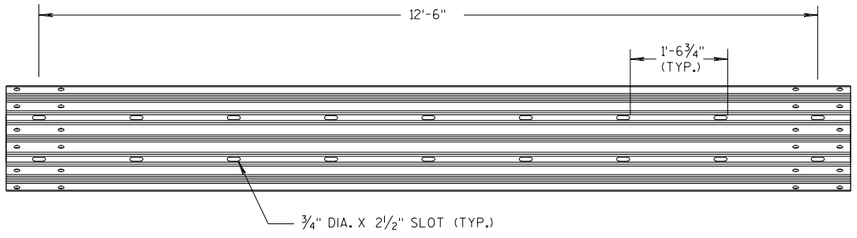
S.D.D. 14 B 45-5b



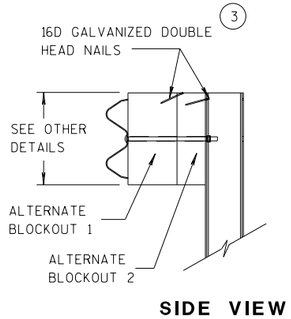
W-BEAM TO THRIE BEAM TRANSITION SECTION



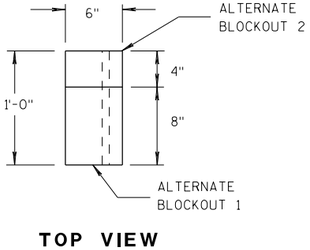
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

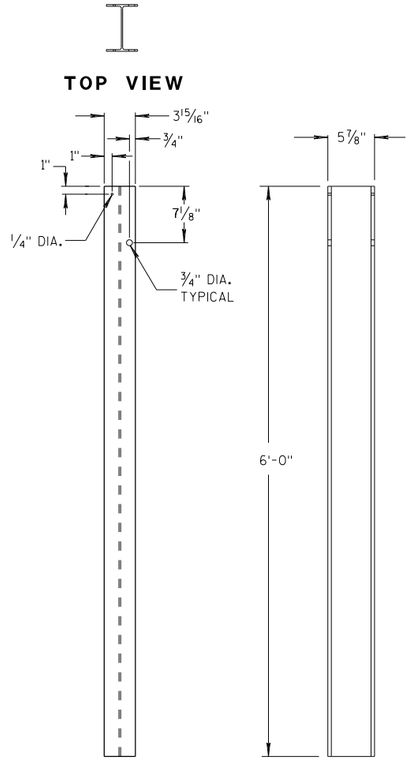


SIDE VIEW



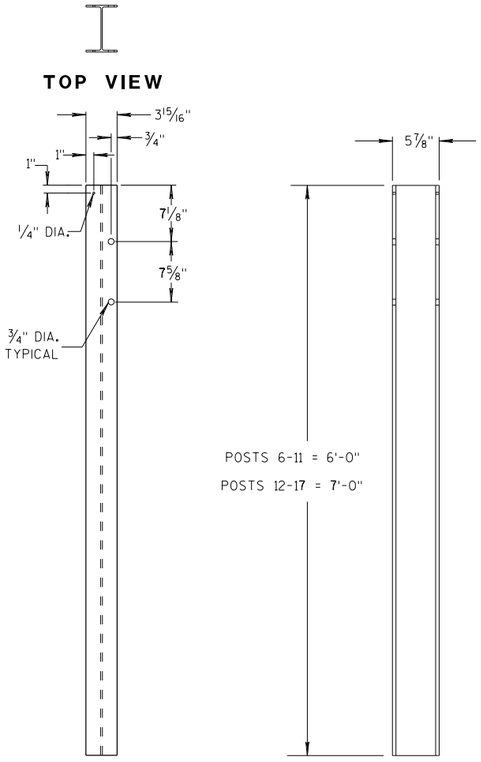
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



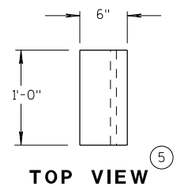
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

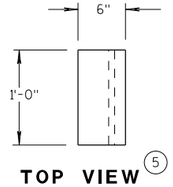


FRONT VIEW SIDE VIEW

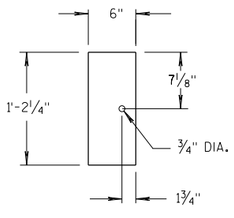
STEEL POSTS 6-17



TOP VIEW (5)

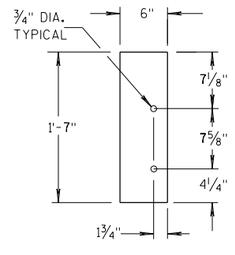


TOP VIEW (5)



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.

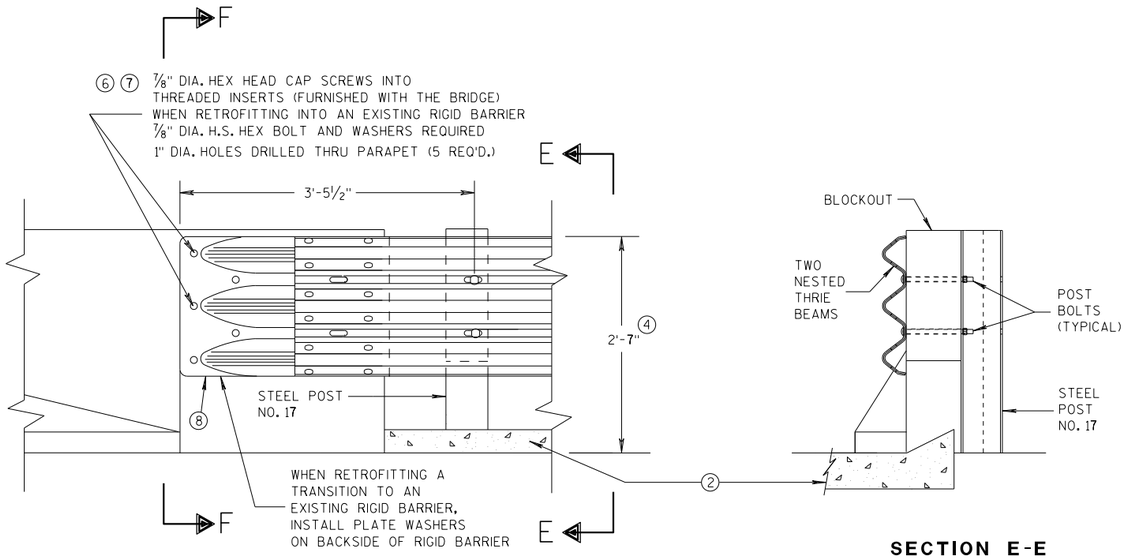
(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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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.

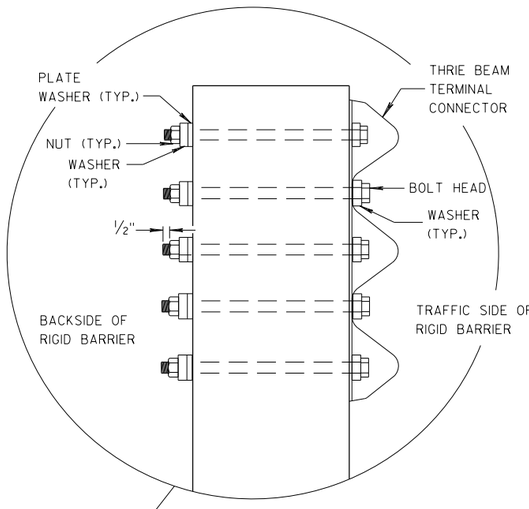
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

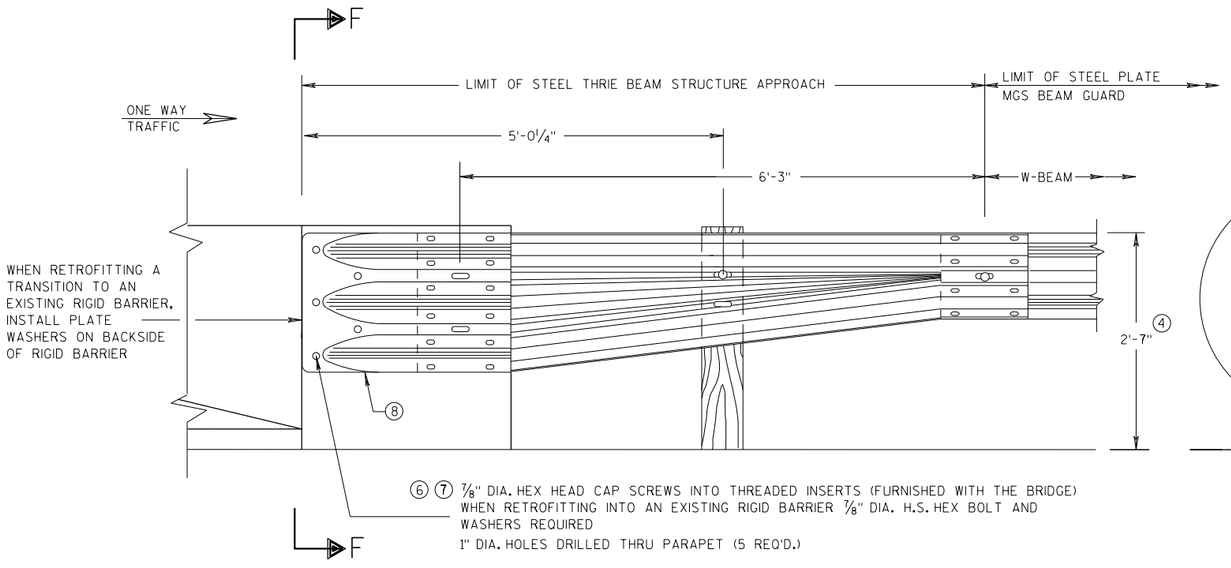
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

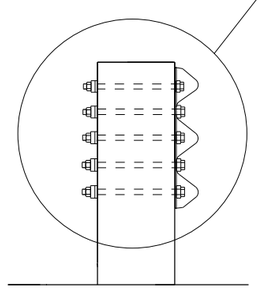
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. 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".

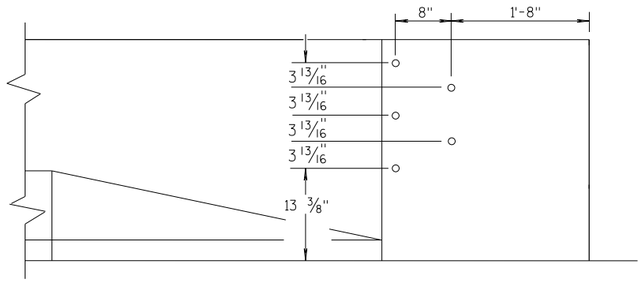




FRONT VIEW



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

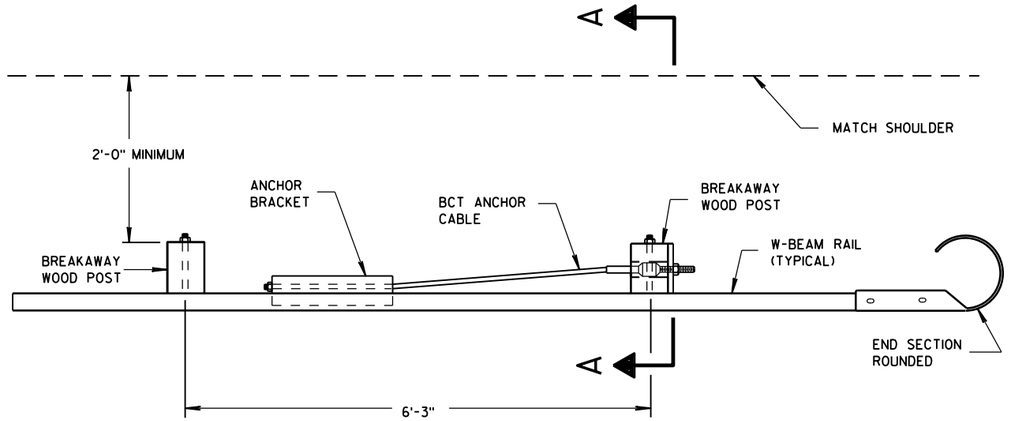
APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D[UNIT SUPERVIS[NT
FHWA

6

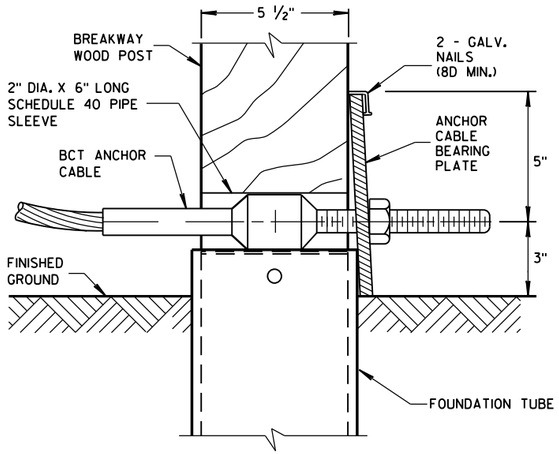
S.D.D. 14 B 45-5d

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S.D.D. 14 B 45-5d



PLAN VIEW



DETAIL A

POST NO. 1
GROUNG STRUT NOT SHOWN FOR CLARITY.

GENERAL NOTES

SEE SDD 14 B 42 FOR MORE INFORMATION.

END SECTION BOLTS AND NUTS HAVE THE SAME MATERIAL REQUIREMENTS AS SPLICE BOLTS.

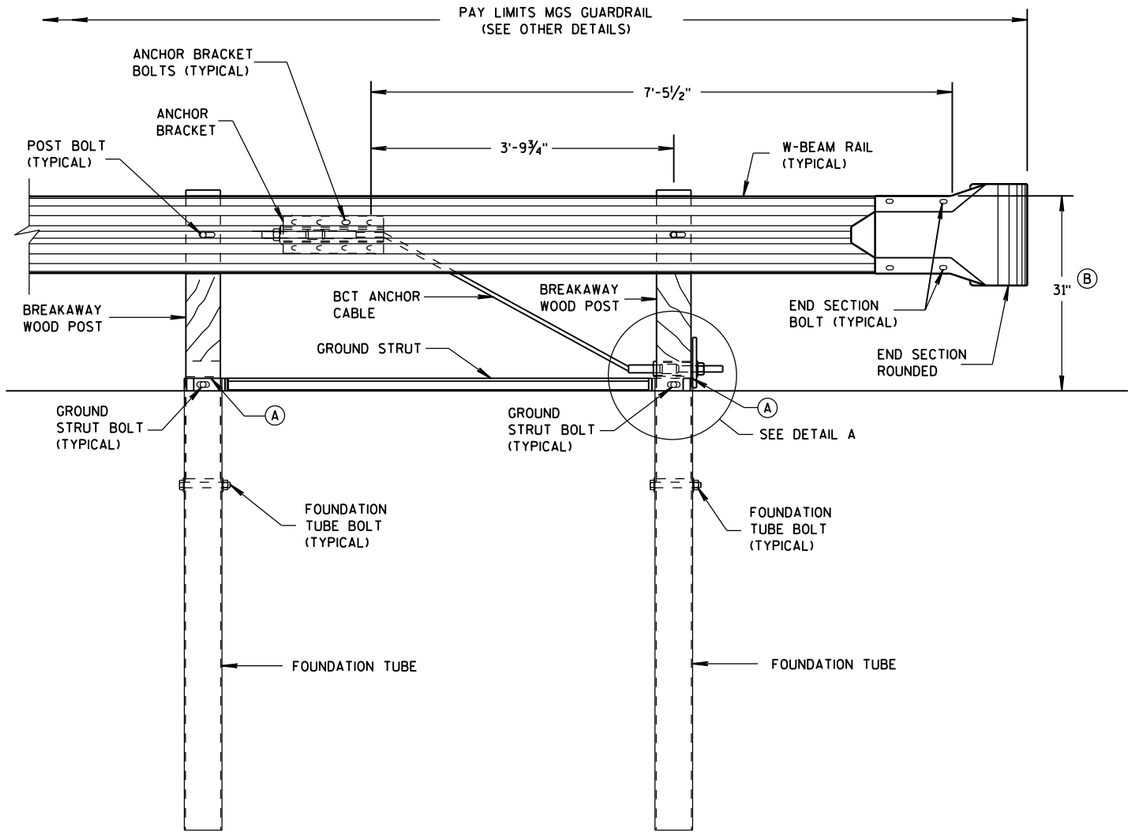
FOUNDATION TUBE BOLTS ARE ⅞" DIAMETER ASTM A307 HEX HEAD BOLT. FOUNDATION TUBE BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅞" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

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.

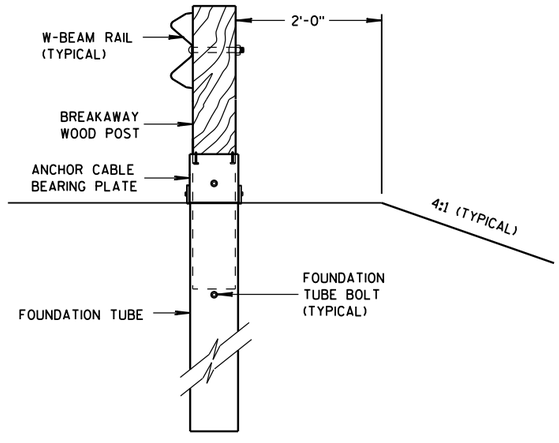
(A) TOP OF FOUNDATION TUBE SHALL BE NO MORE THAN 3" ABOVE FINISHED GROUND.

(B) FOR NEW CONSTRUCTION TOP OF RAIL IS 31" ± 1".
FOR EXISTING INSTALLATIONS TOP OF RAIL IS BETWEEN 27¾" TO 32" ± 1".

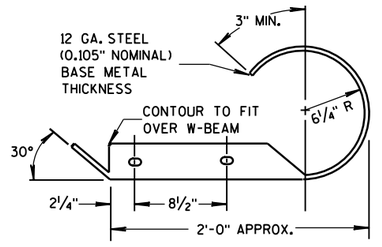


FRONT VIEW

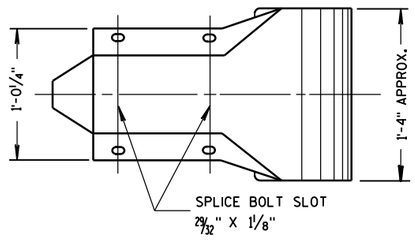
END RAIL DETAIL



SECTION A-A



PLAN VIEW



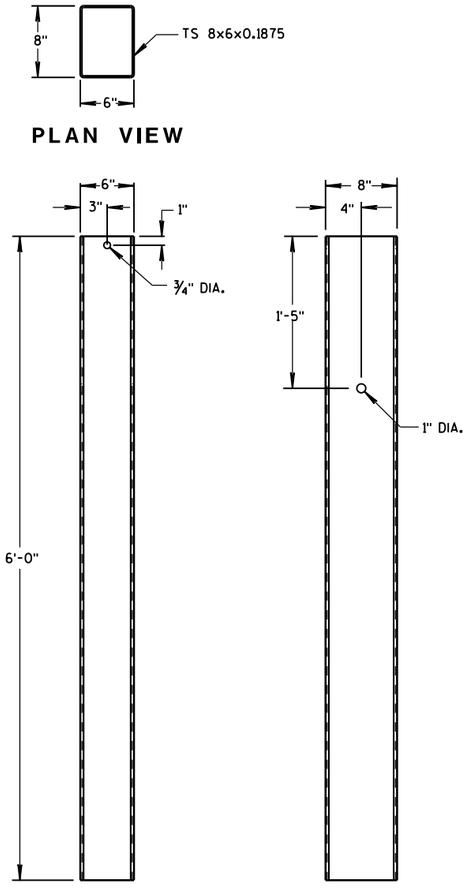
FRONT VIEW

W BEAM END SECTION ROUNDED

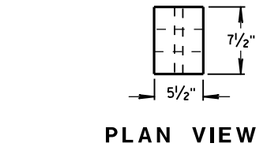
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

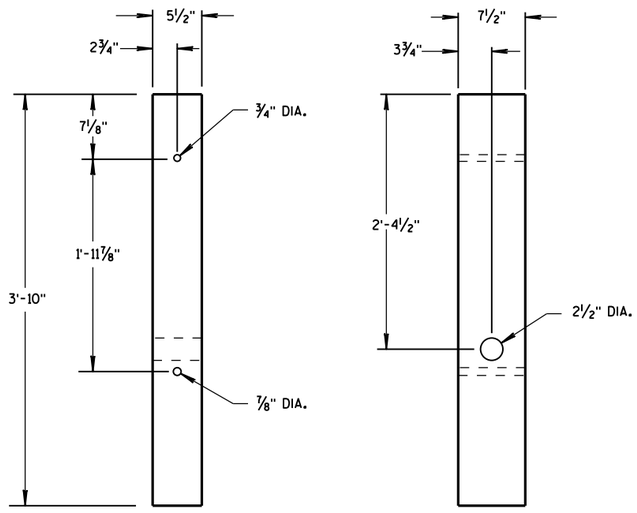
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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S.D.D. 14 B 47-2a



FOUNDATION TUBE



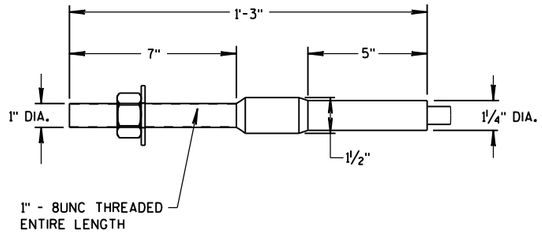


BREAKAWAY WOOD POST

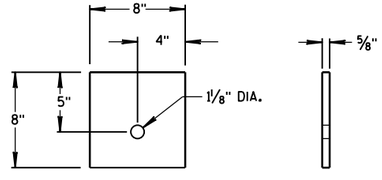
GENERAL NOTES

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



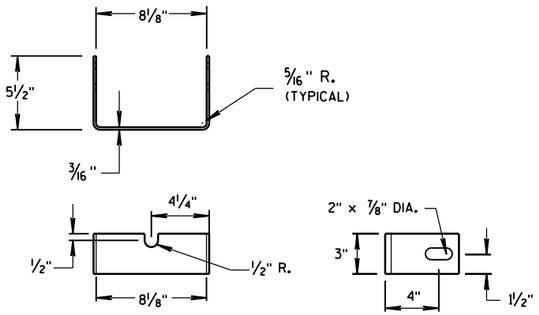
ANCHOR CABLE
BEARING PLATE

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

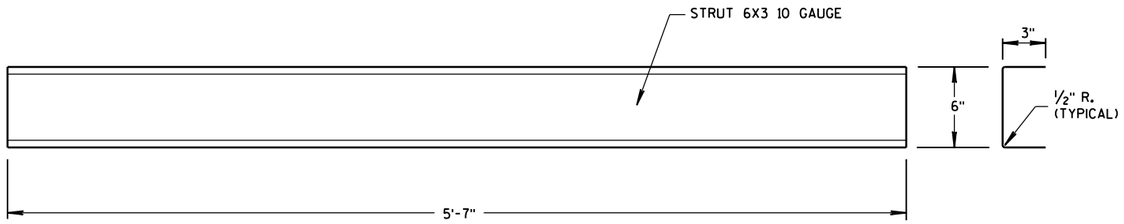
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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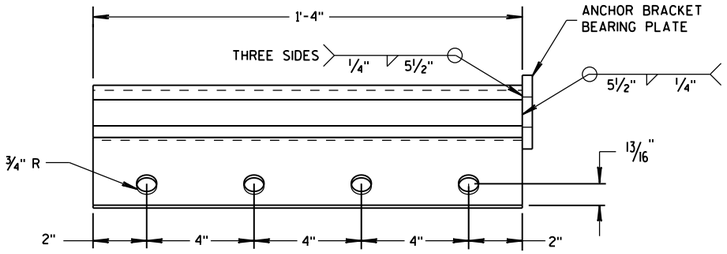
S.D.D. 14 B 47-2b

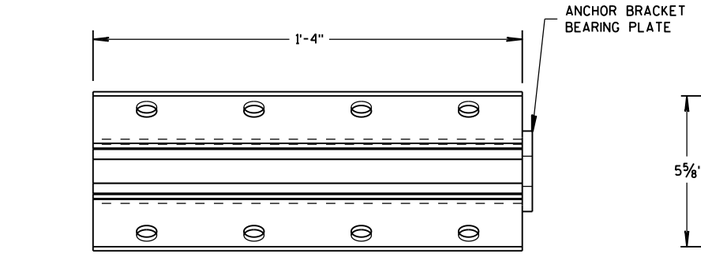


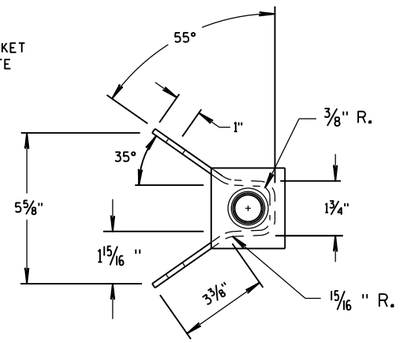
YOKE DETAIL



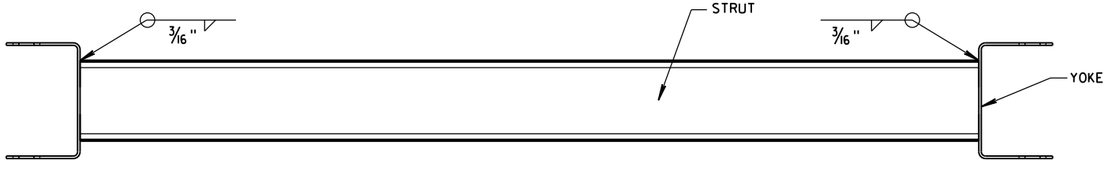
STRUT DETAIL



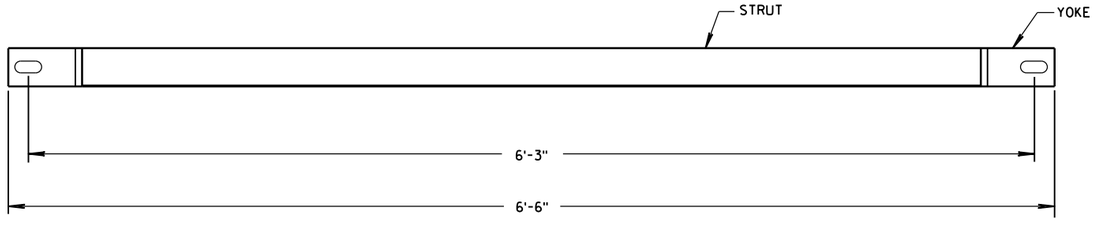




ANCHOR BRACKET

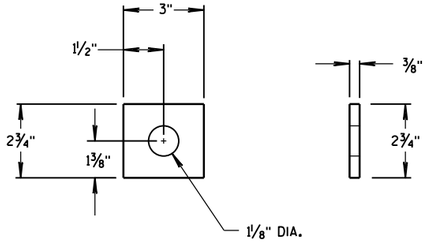


PLAN VIEW



FRONT VIEW

GROUND STRUT DETAIL



ANCHOR BRACKET BEARING PLATE

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

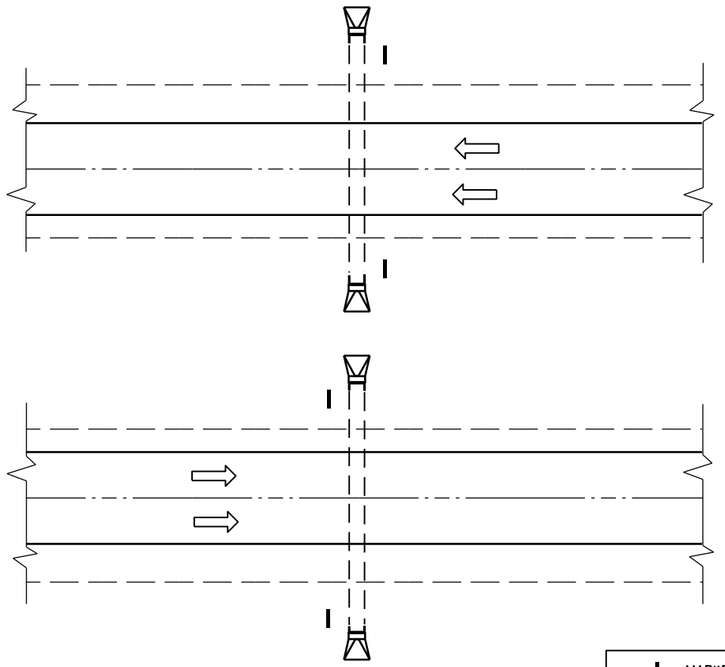
APPROVED
June 2014
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

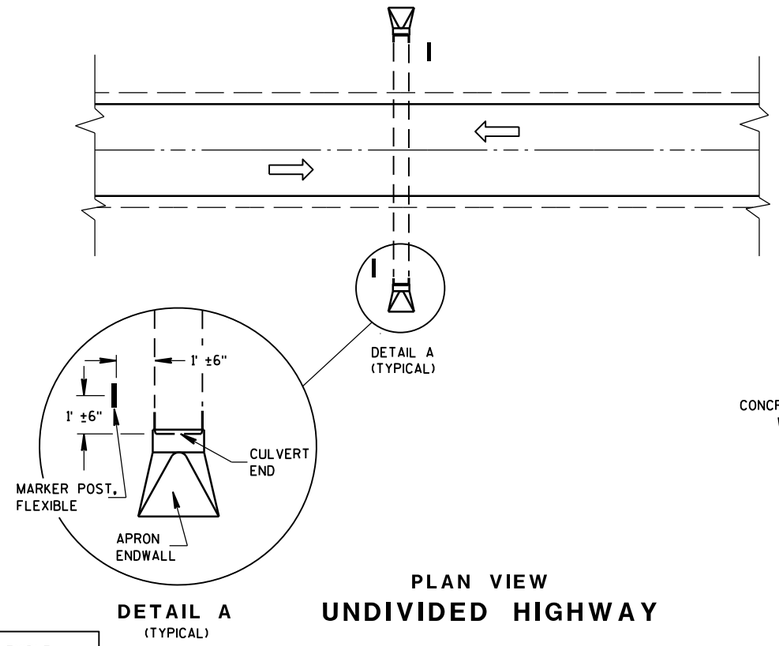
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S.D.D. 14 B 47-2c



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

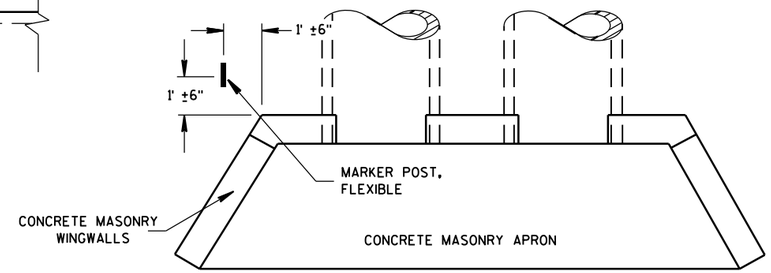
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

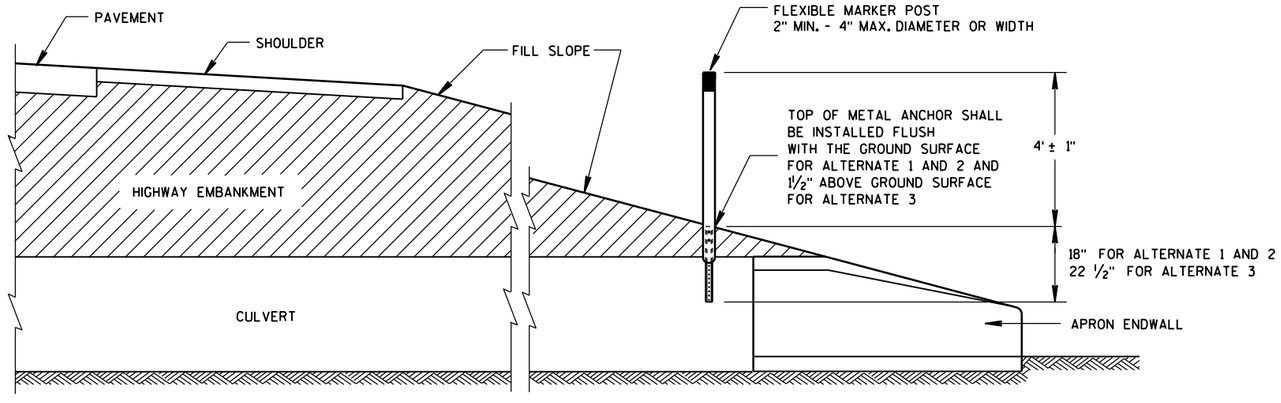
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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

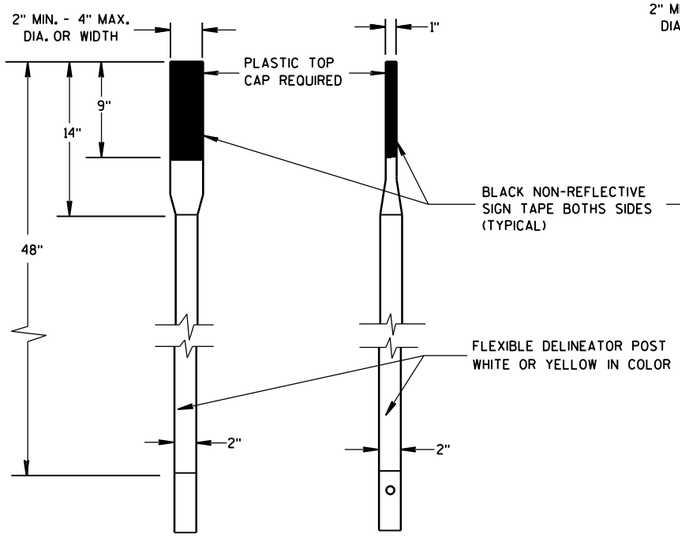
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

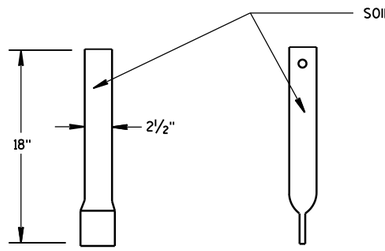
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S.D.D. 15 A 3-2a

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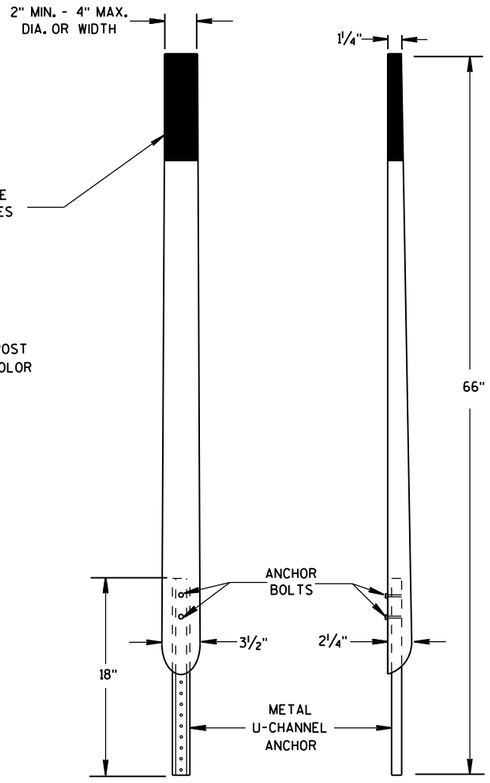
S.D.D. 15 A 3-2a





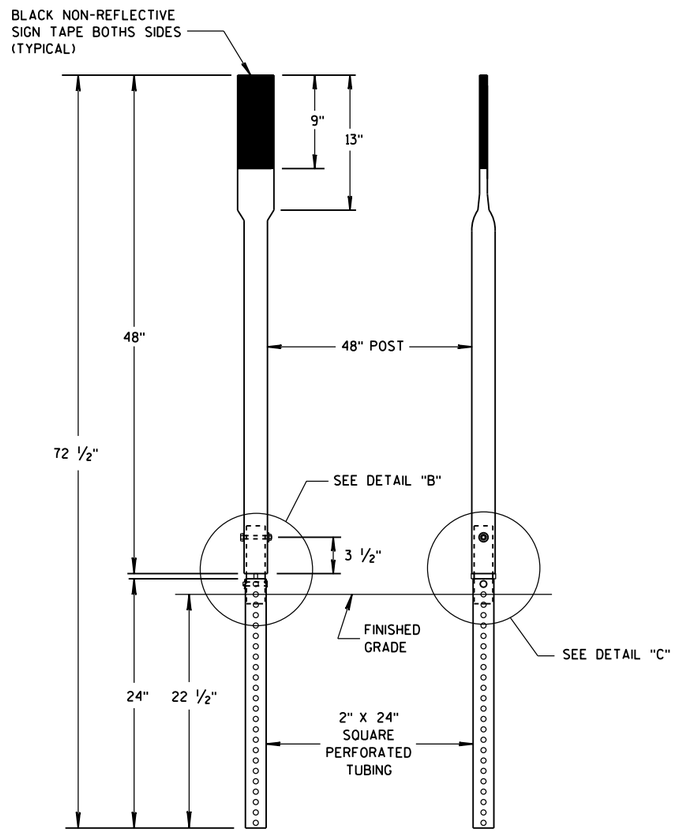
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

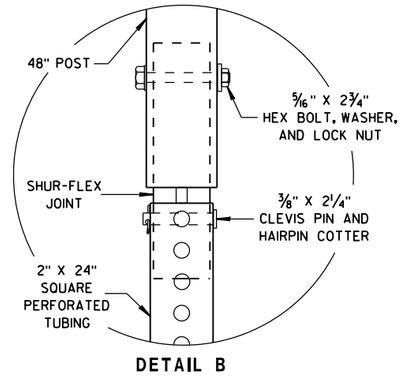
ALTERNATE 2



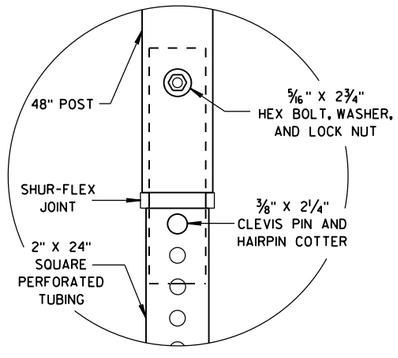
FRONT VIEW SIDE VIEW

ALTERNATE 3

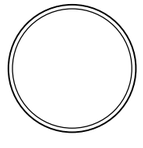
FLEXIBLE MARKER POSTS



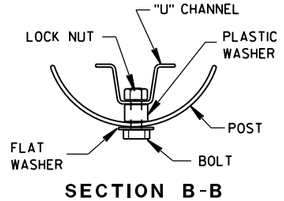
DETAIL B



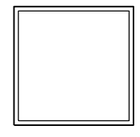
DETAIL C



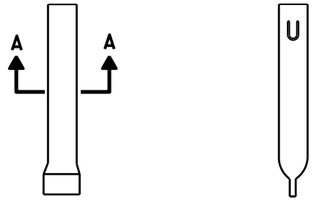
SECTION A-A



SECTION B-B

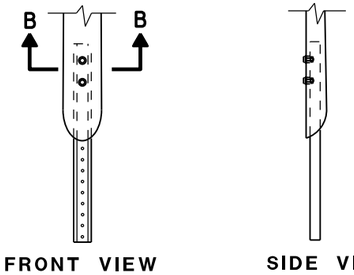


SECTION C-C



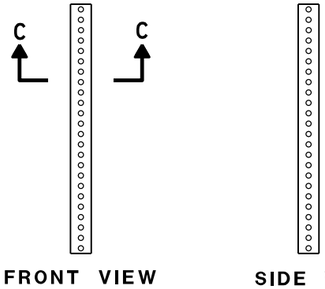
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2



FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

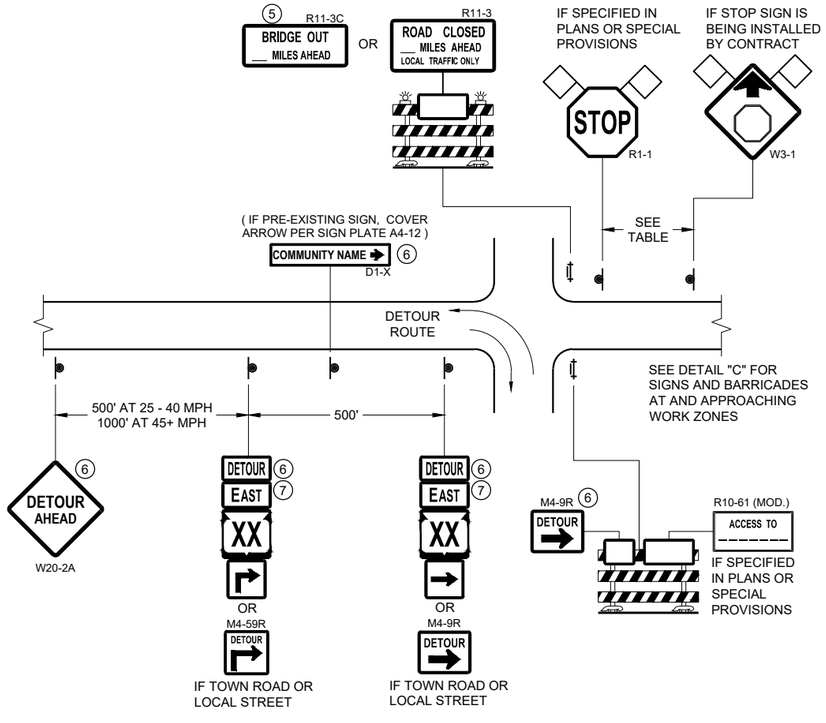
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 15 A 3-2b

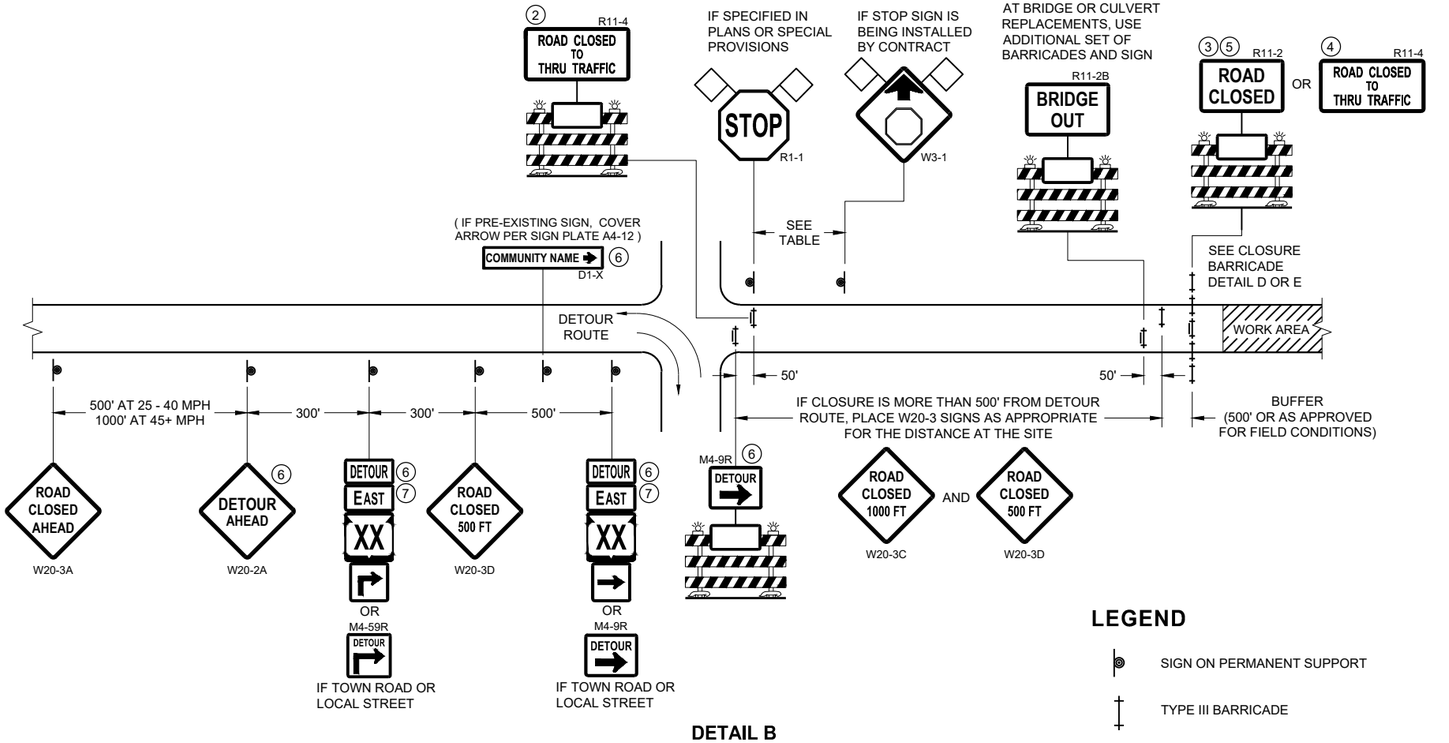
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S.D.D. 15 A 3-2b



DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

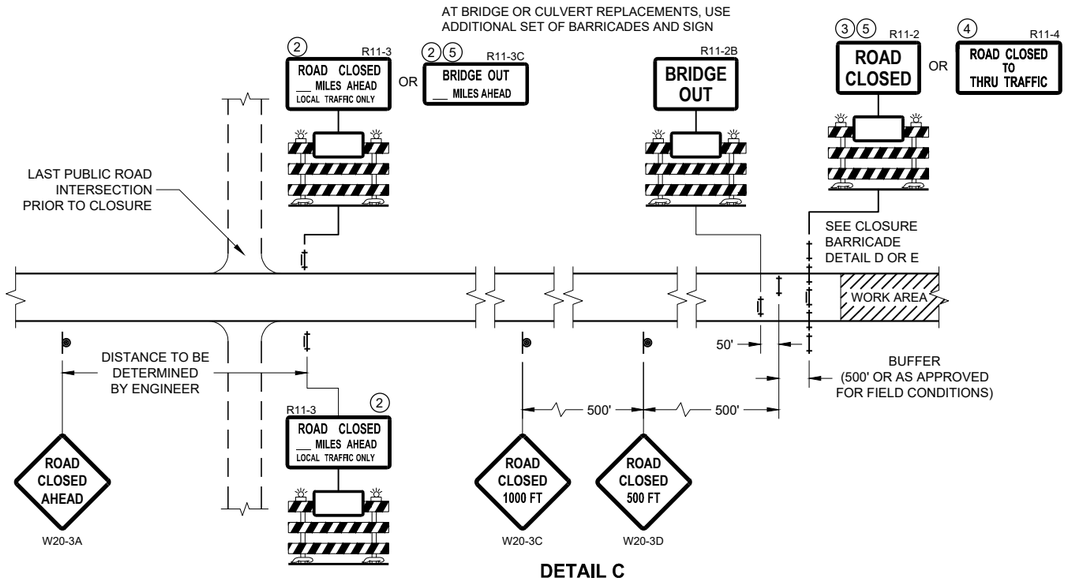
WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SEE SDD 15C2-SHEET "b" FOR GENERAL NOTES AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

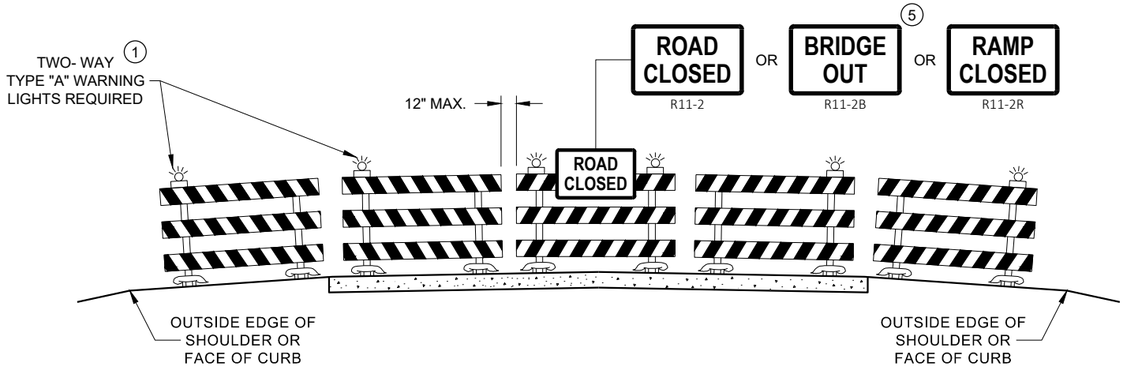
APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

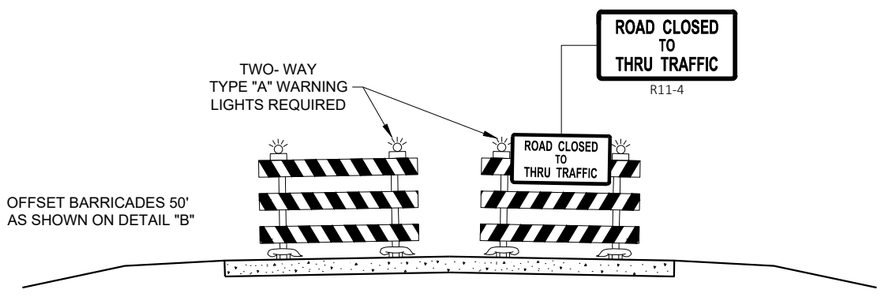
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SDD 15C02 - 07a

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

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SDD 15C02 - 07b

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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.

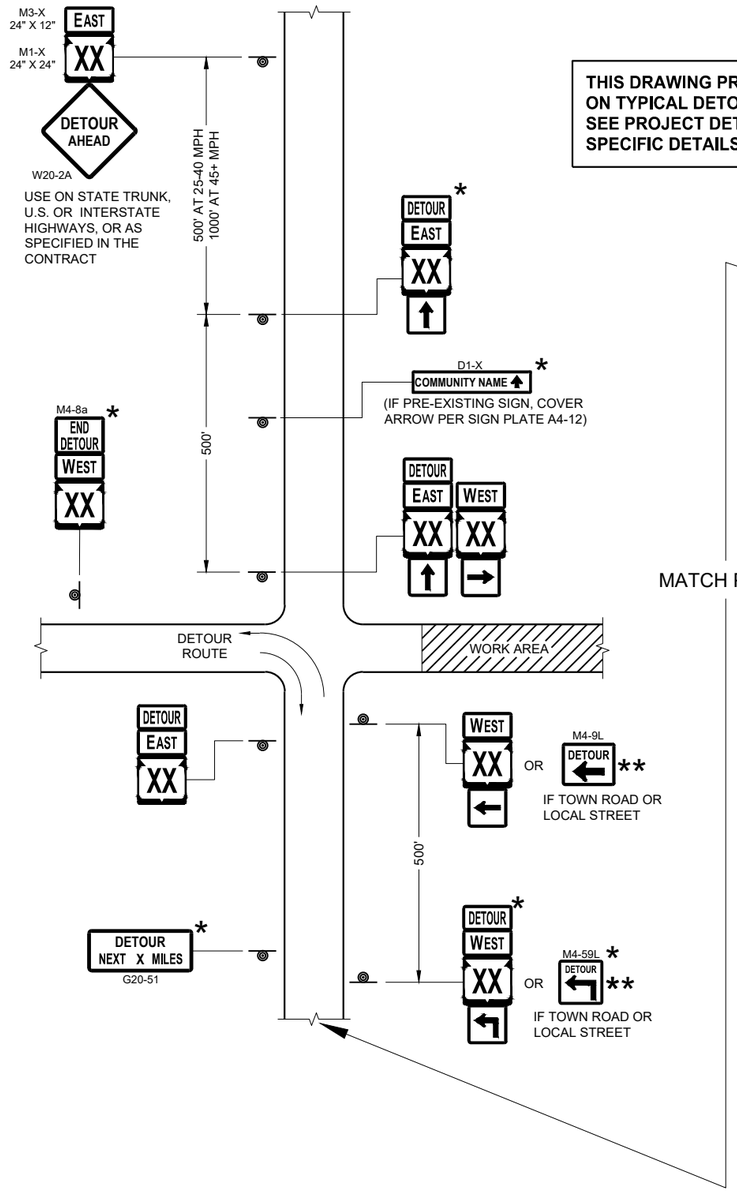
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

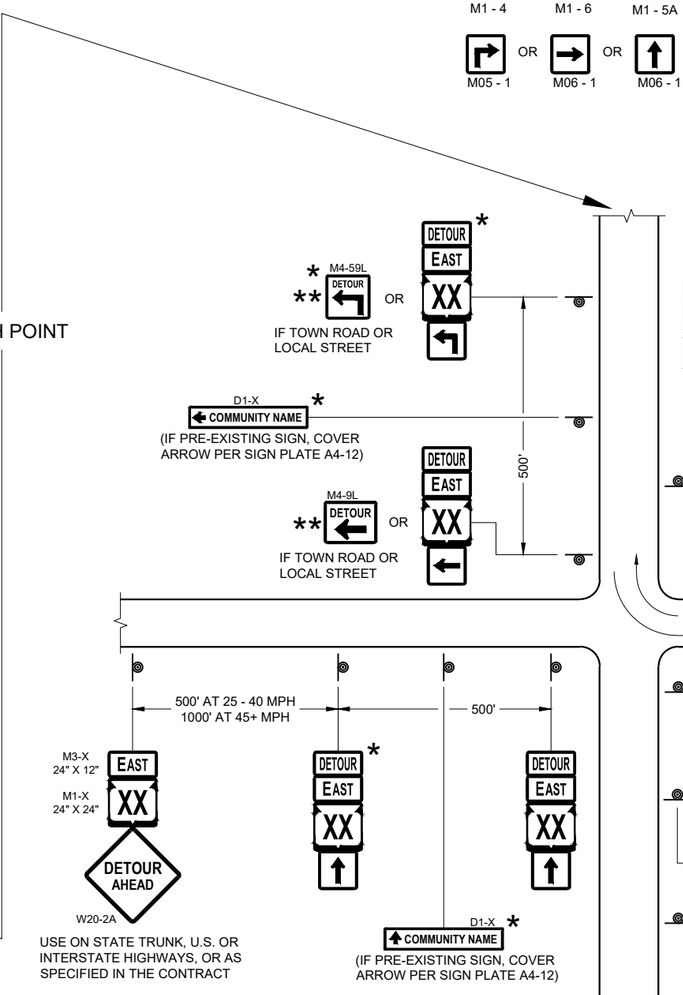
SIGN SIZES SHALL BE AS FOLLOWS:

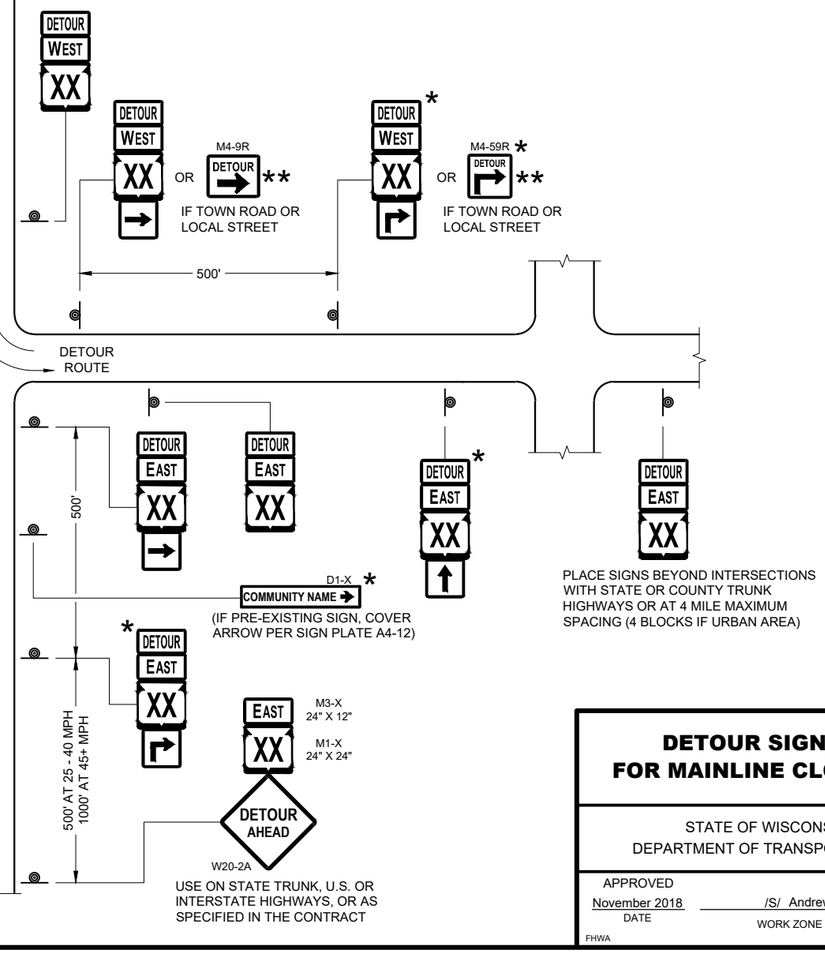
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING 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.







SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

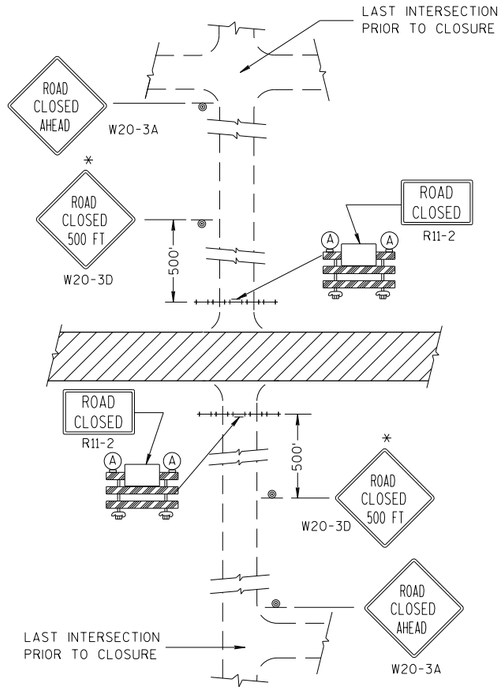
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15C02 - 07c

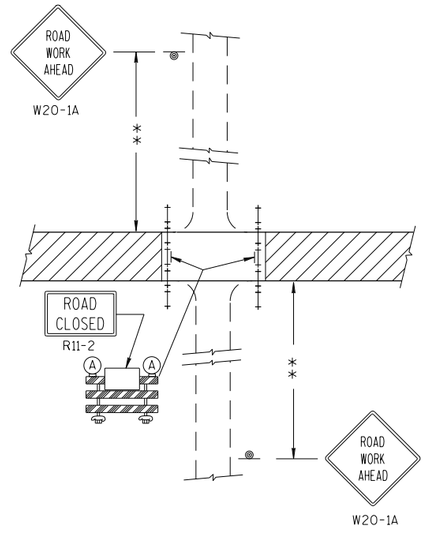
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SDD 15C02 - 07c



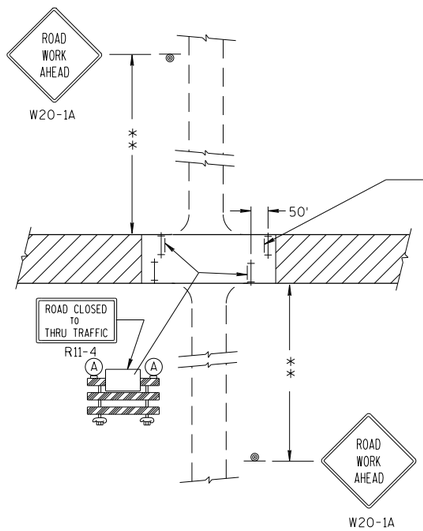
DETAIL 1

(NO ACCESS TO PROJECT)



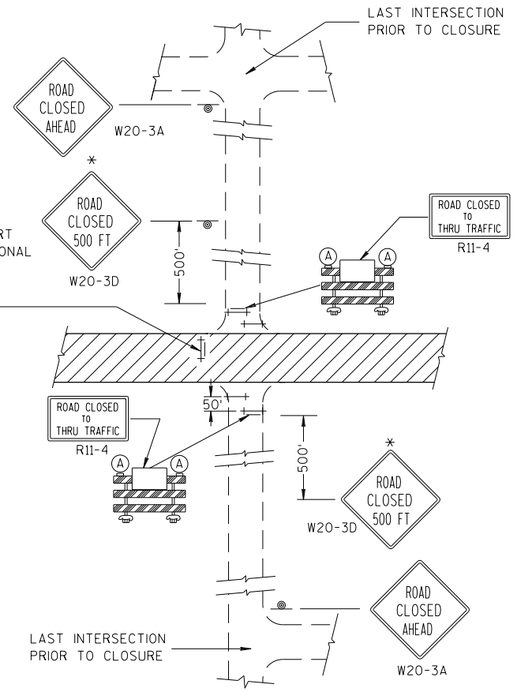
DETAIL 2

(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

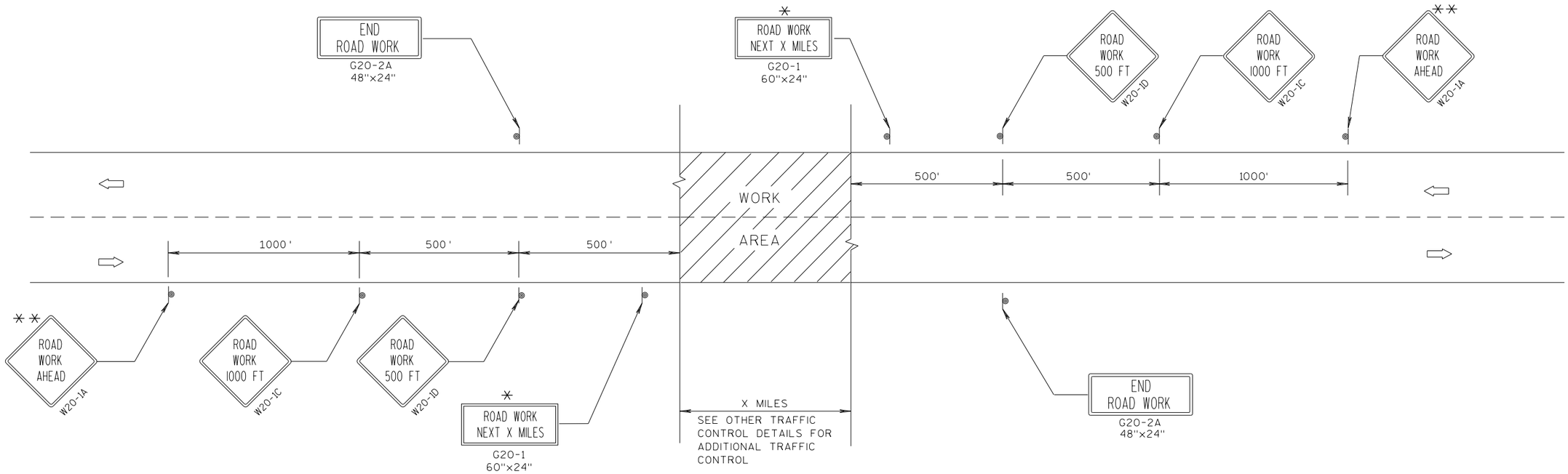
/S/ Andrew Heidtke
WORK ZONE ENGI

FHWA

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S.D.D. 15 C 3-5

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

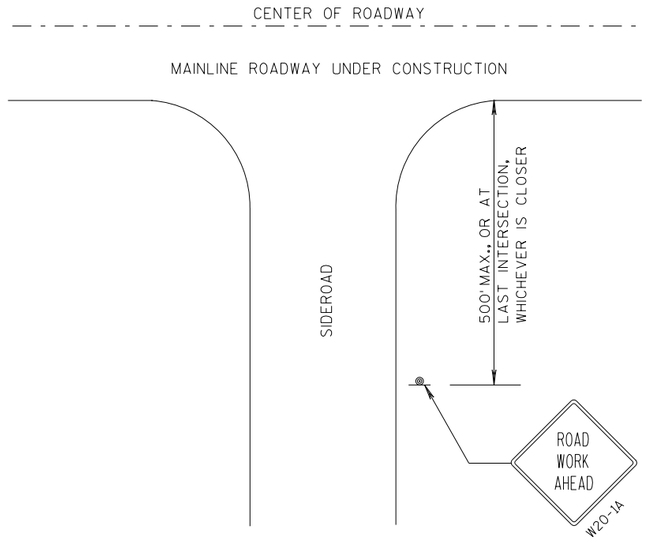
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

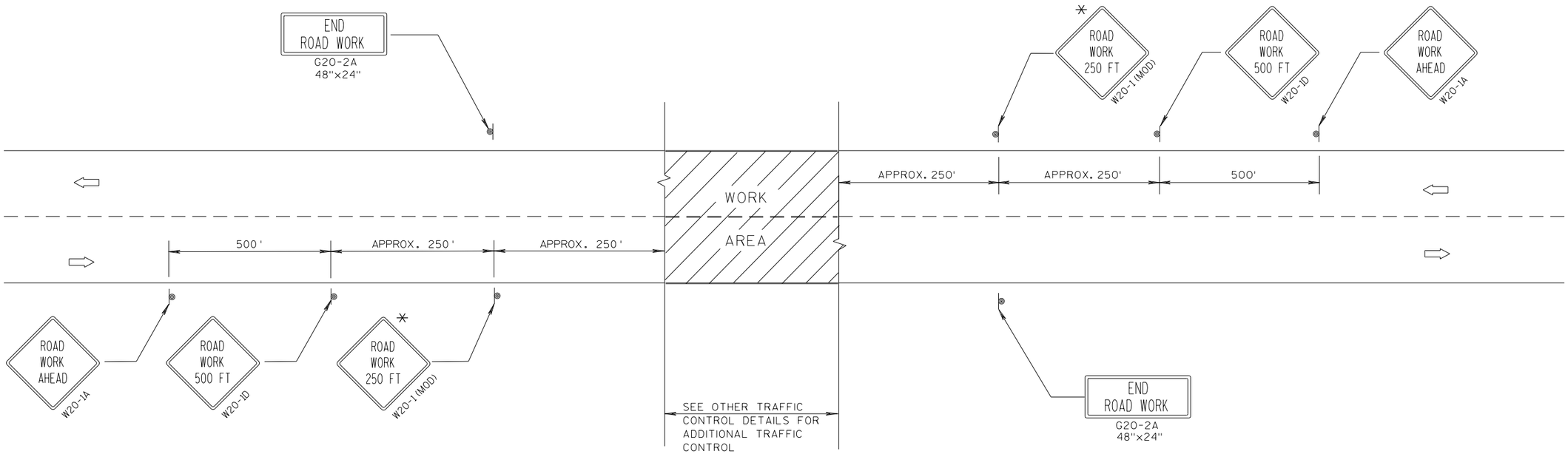
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Andrew Heldtke — WORK ZONE ENGI
FHWA

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S.D.D. 15 C 4-5

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

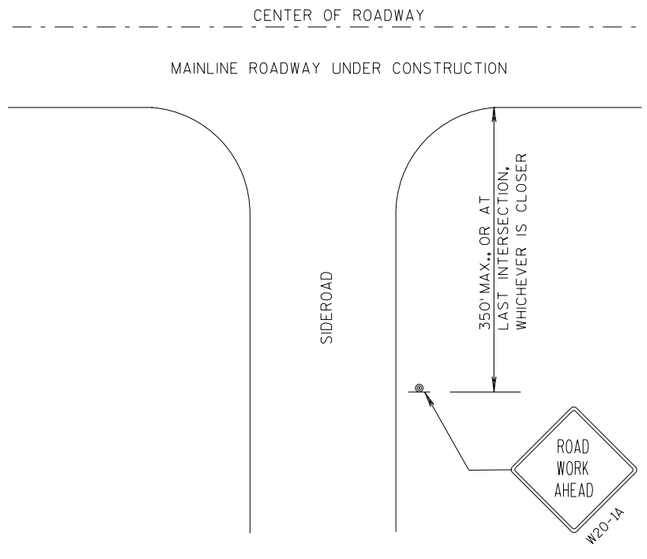
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Andrew Heldtke
WORK ZONE ENGI

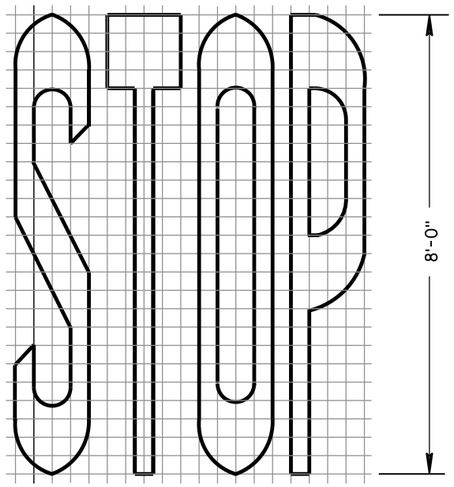
FHWA

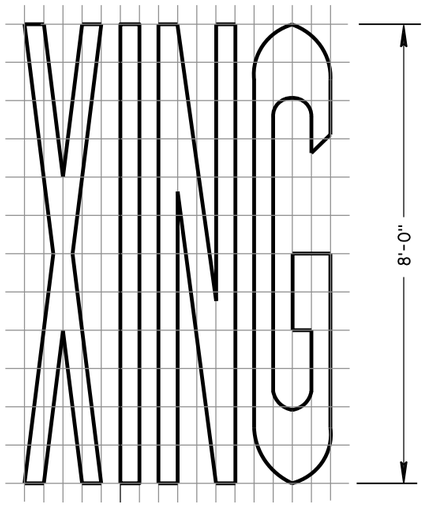
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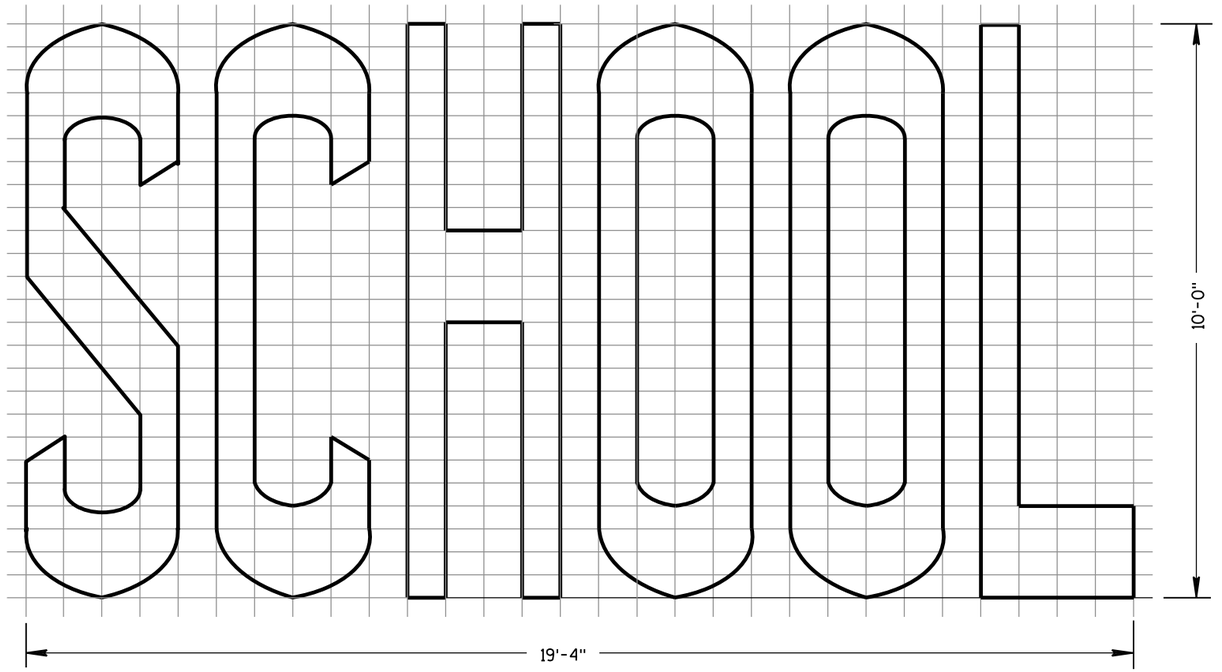
S.D.D. 15 C 5-5

GENERAL NOTES

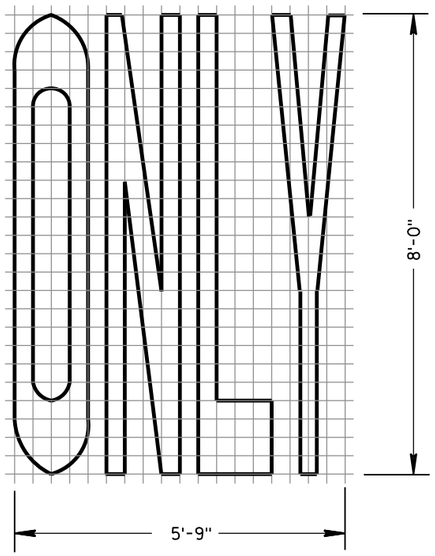
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

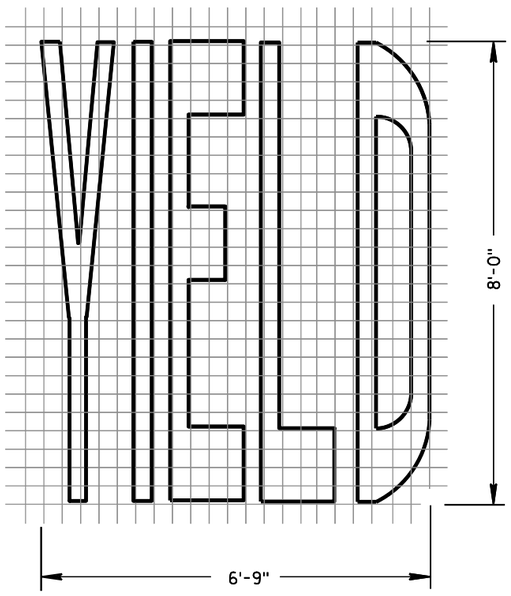


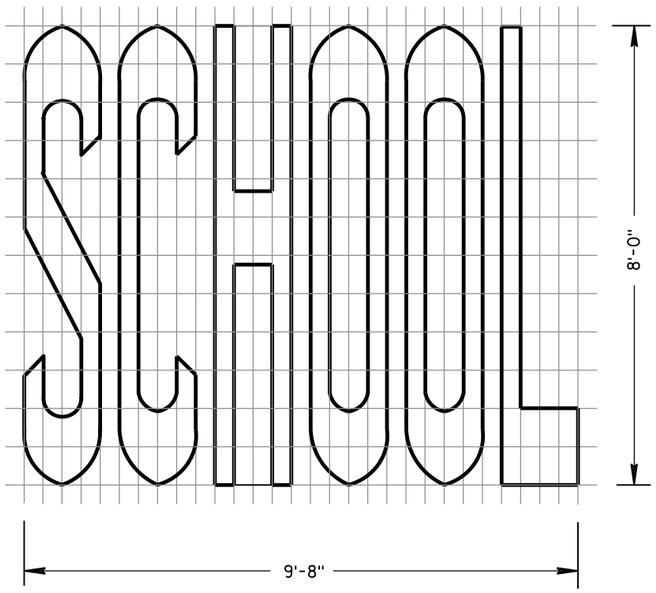




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARK
EER
FHWA

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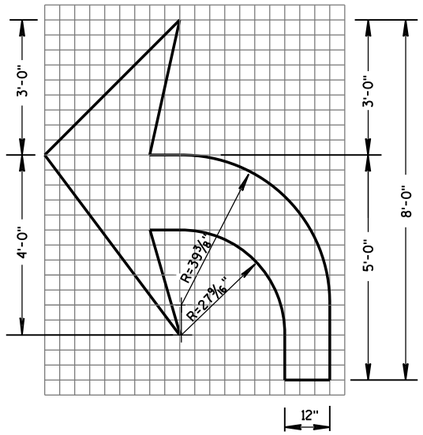
S.D.D. 15 C 7-14b

6

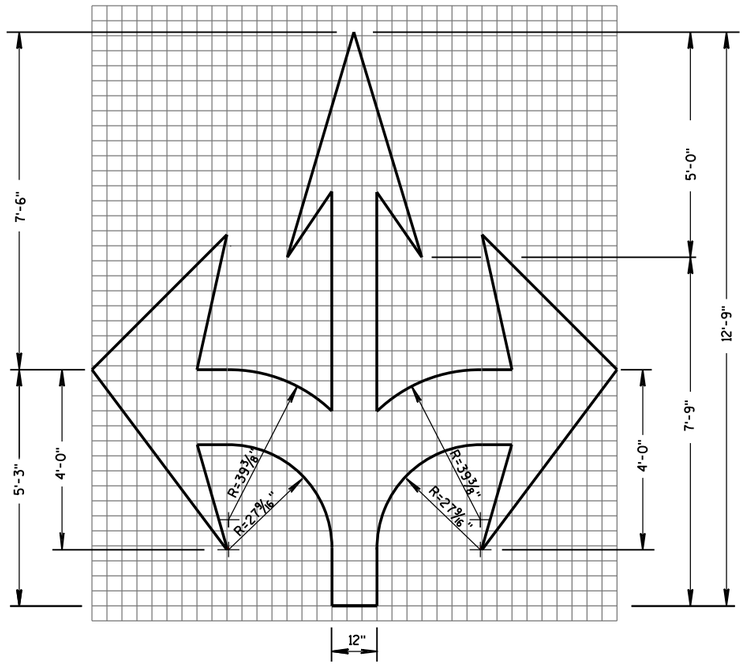
S.D.D. 15 C 7-14b

GENERAL NOTES

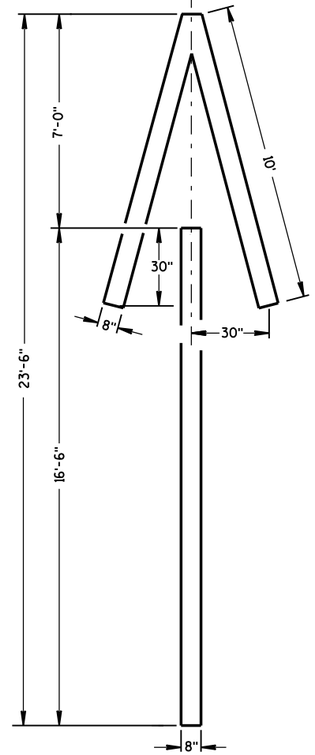
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



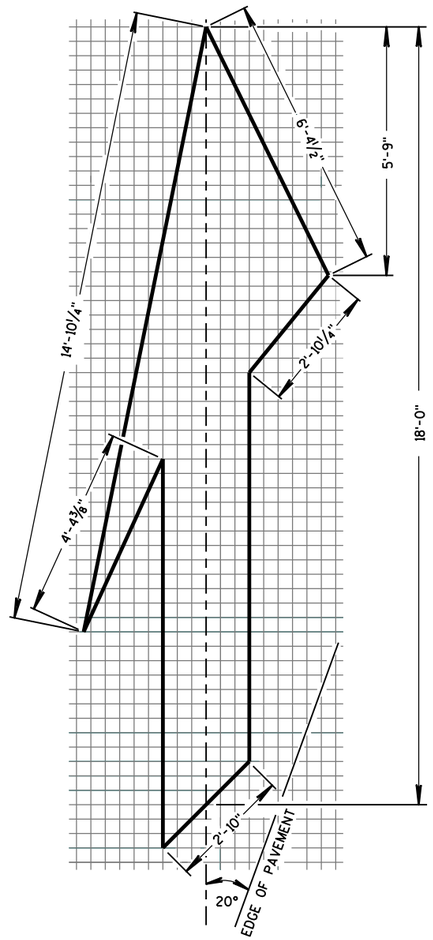
TYPE 2



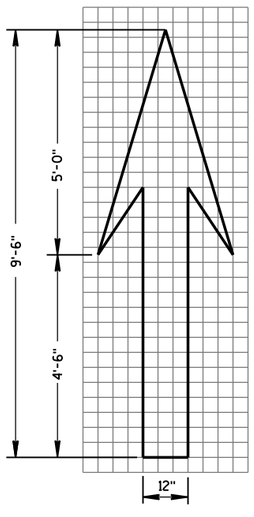
TYPE 6



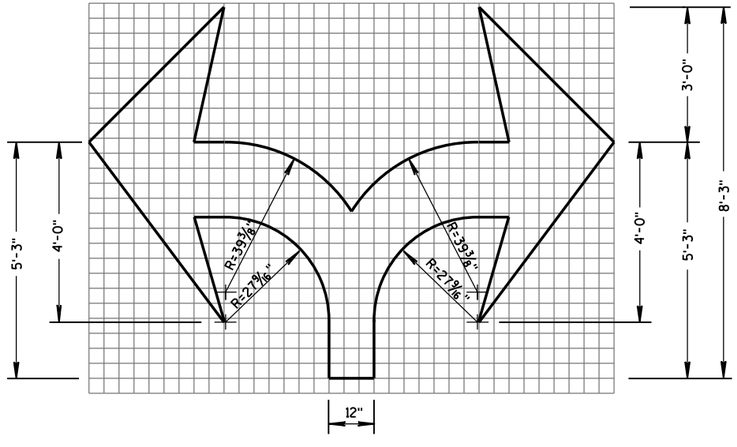
TYPE 4



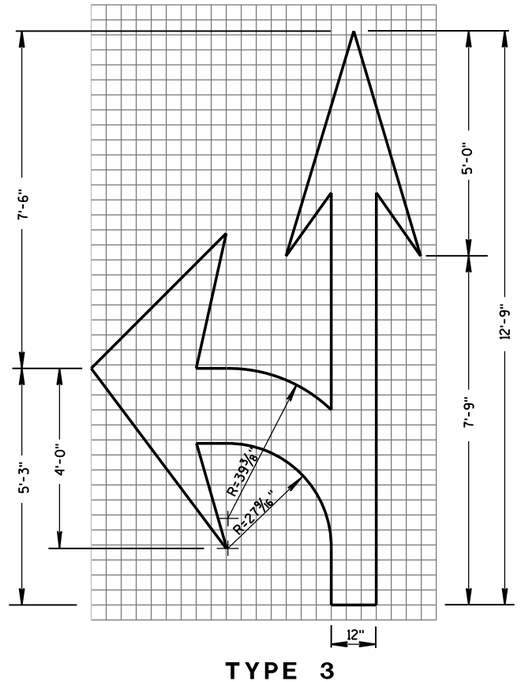
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

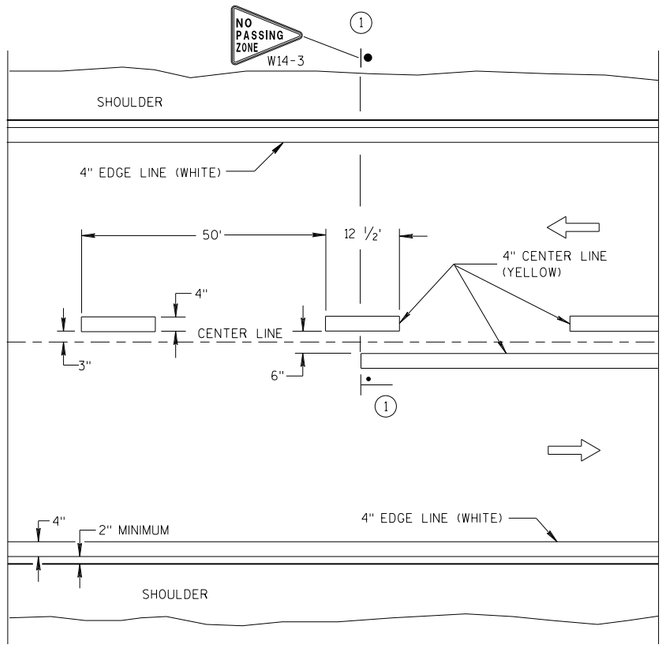
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

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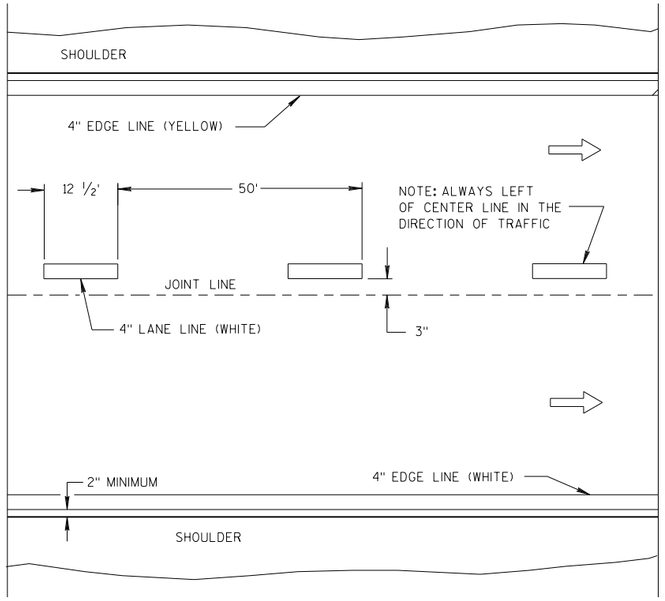
S.D.D. 15 C 7-14c

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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.

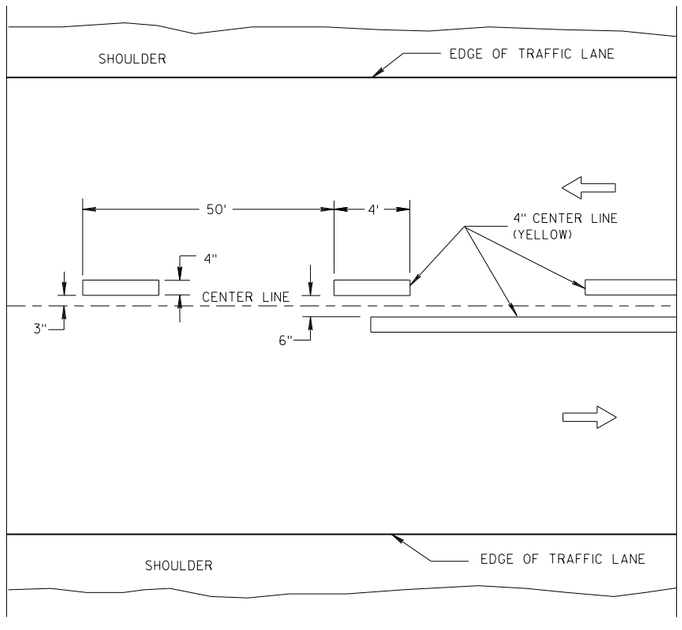
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

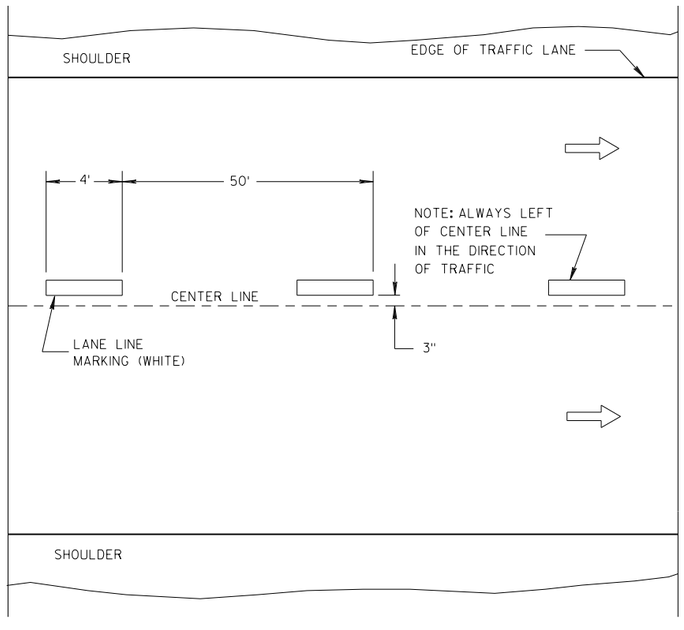
LEGEND

"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

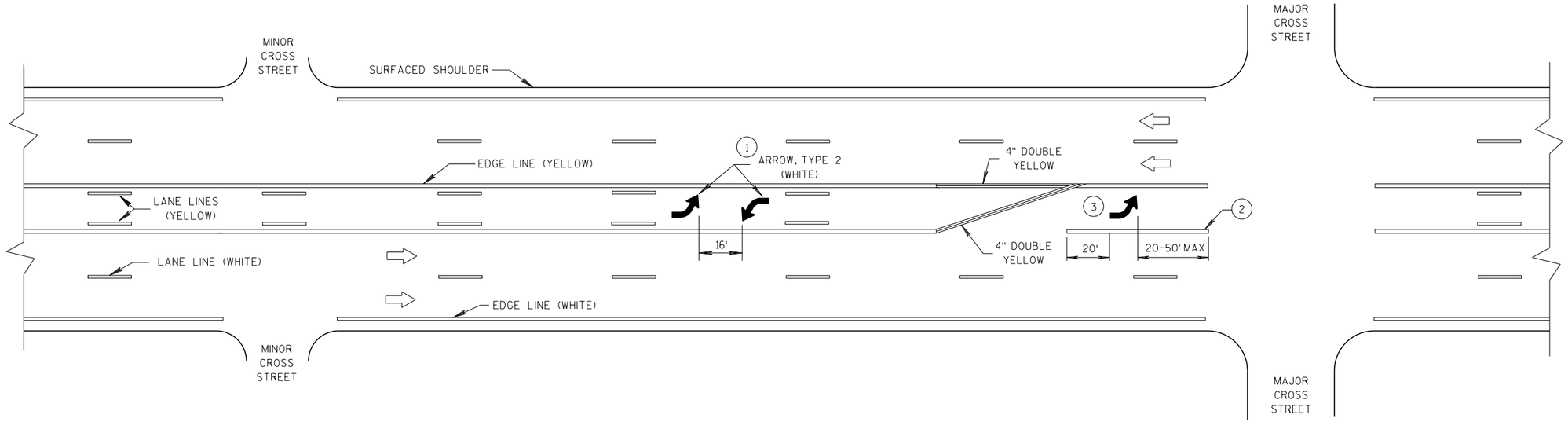
GENERAL NOTES

(1) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(2) 8" WHITE

(3) TURN BAY LENGTH OF LESS THAN 48'DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT

DIRECTION OF TRAFFIC



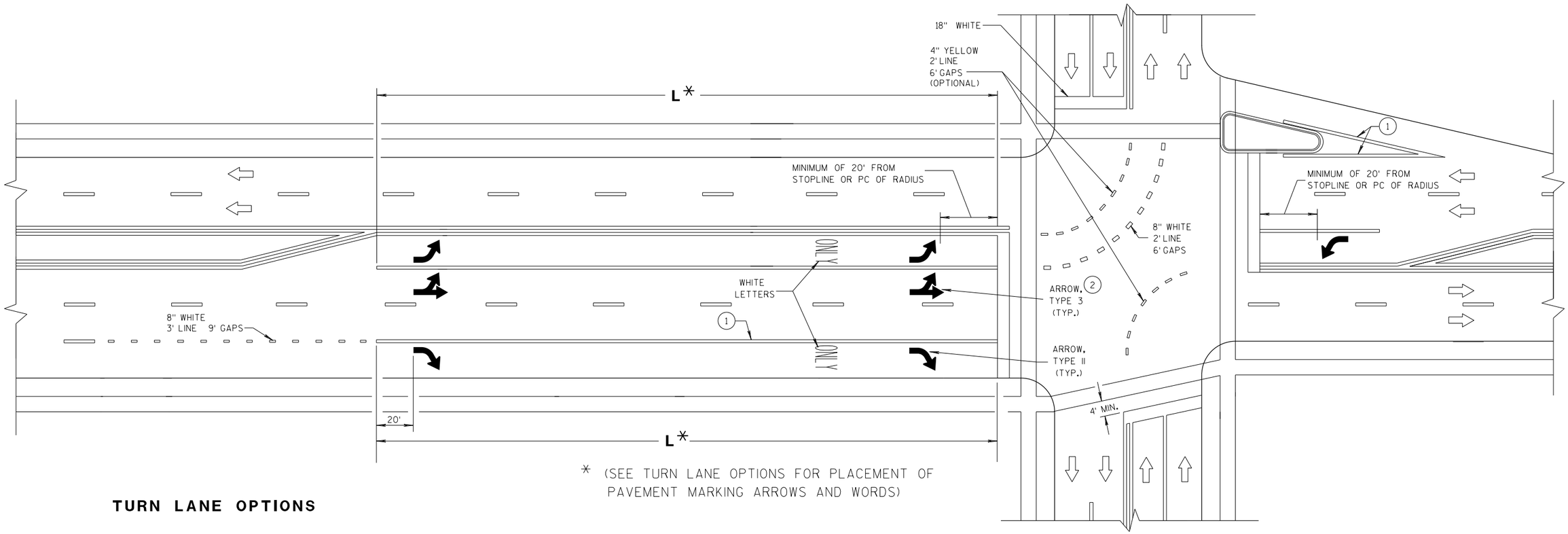
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

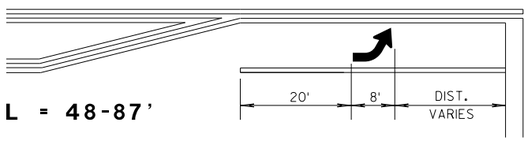
S.D.D. 15 C 8-19b



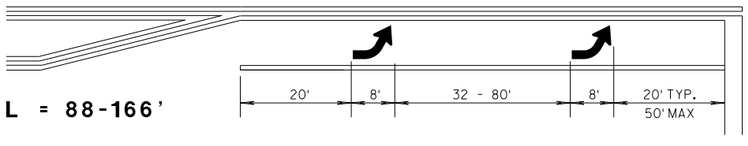
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

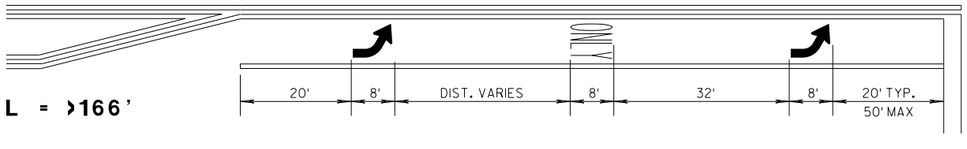
LENGTH OF TURN BAY (**L**) OF 0-47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



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.

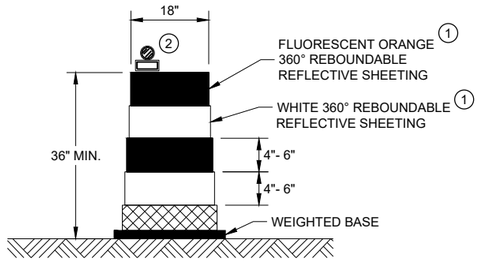
⇨ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

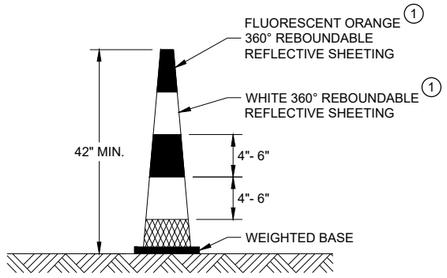
PAVEMENT MARKING (TURN LANES)

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

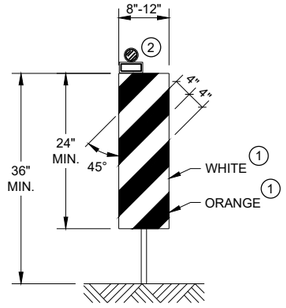


DRUM



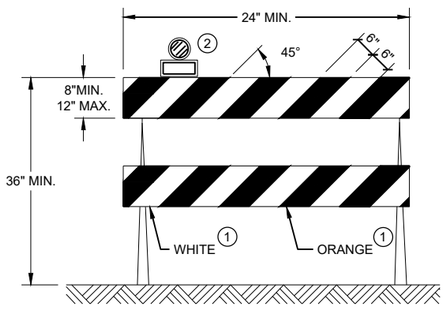
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



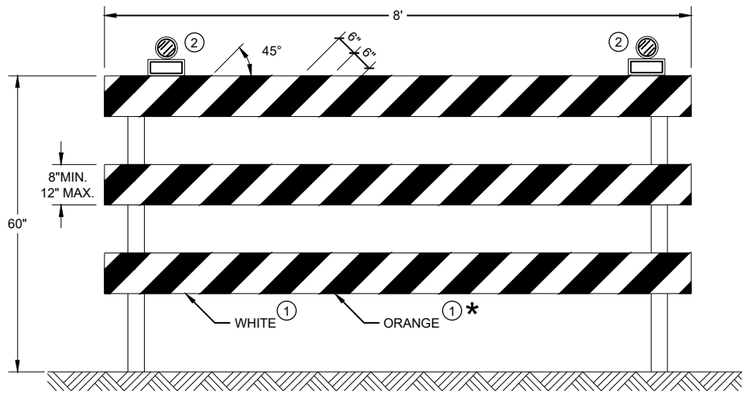
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C11 - 07b

LEGEND

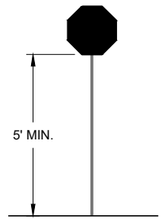
SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



STOP/SLOW PADDLE ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

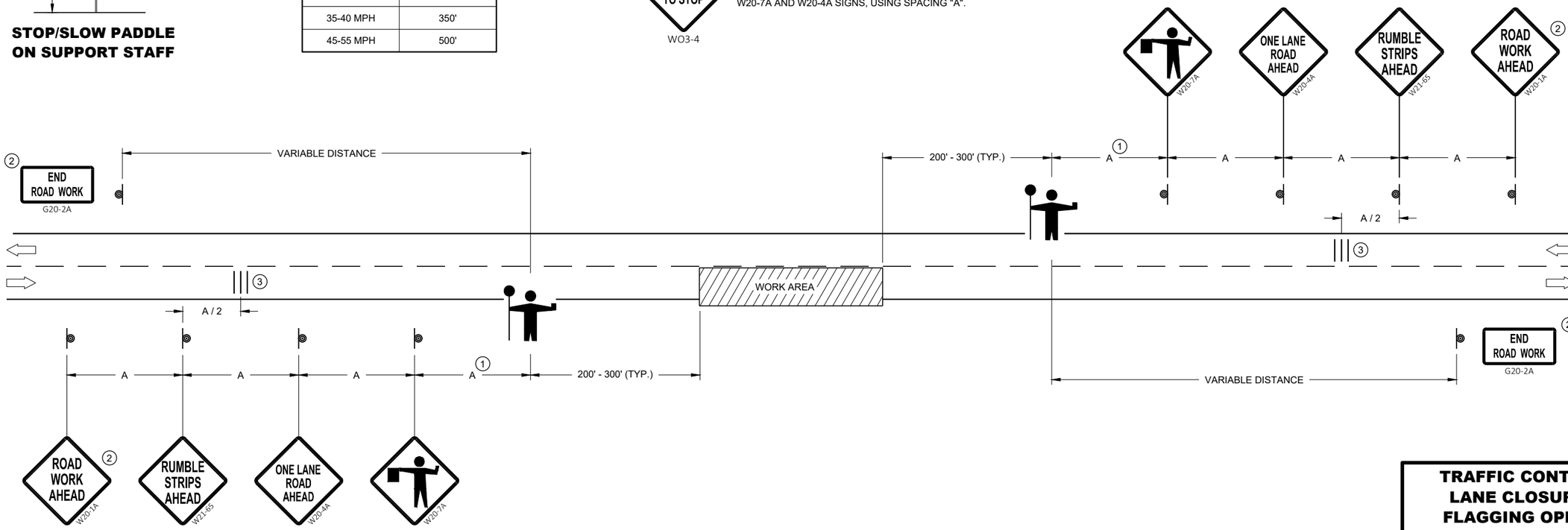
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

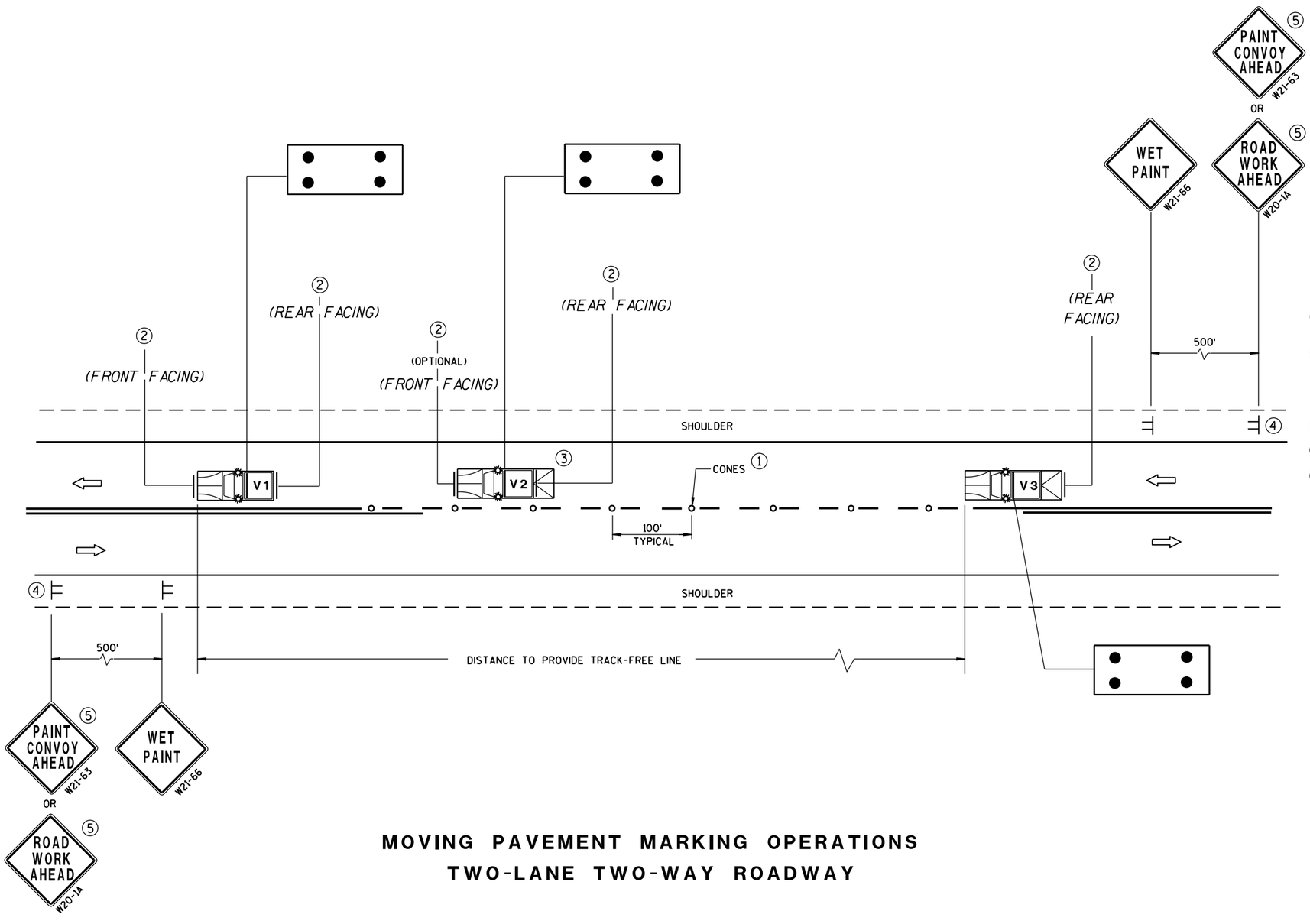
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C12 - 07

SDD 15C12 - 07



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON TEMPORARY SUPPORT
	DIRECTION OF TRAFFIC
	CONES
	FLASHING ARROW PANEL (CAUTION)

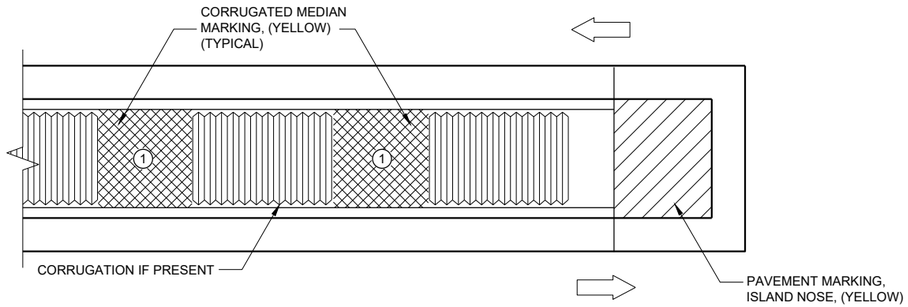
MOVING PAVEMENT MARKING OPERATION
TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

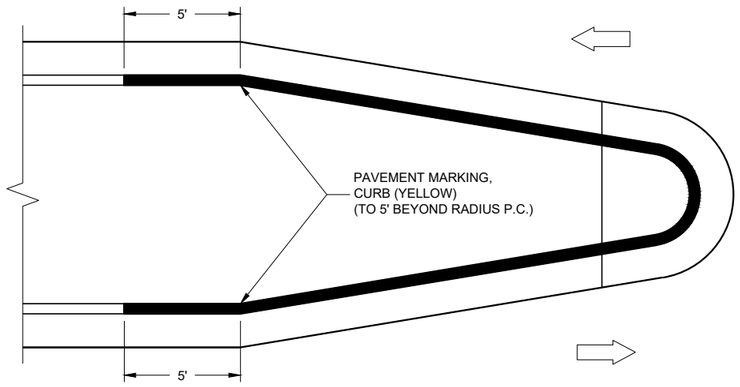
APPROVED
Sept., 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENGR
FHWA

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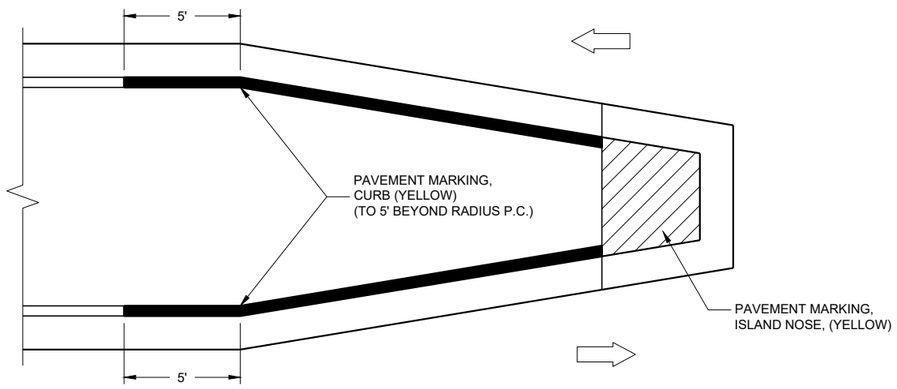
S.D.D. 15 C 19-5a



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.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKINGS
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR ENGINEER

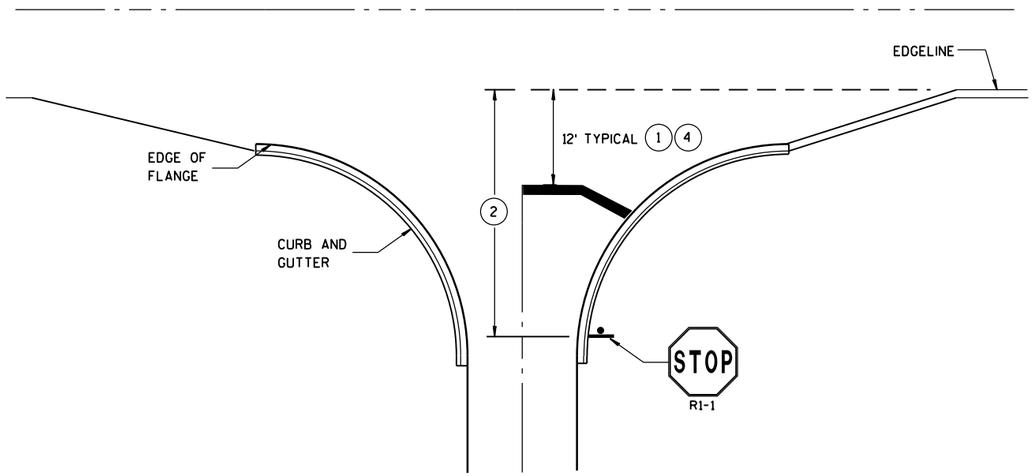
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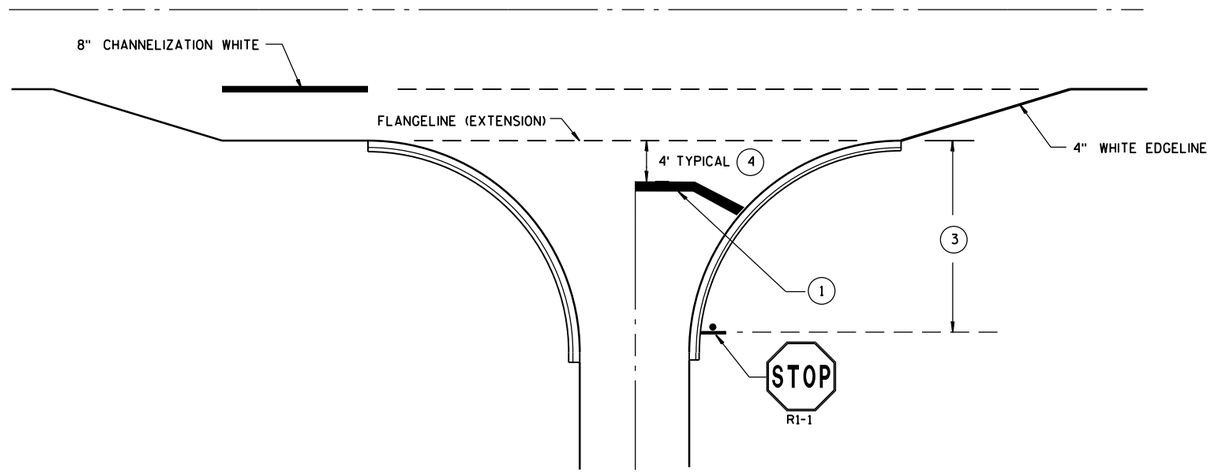
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SDD 15C27 - 03b

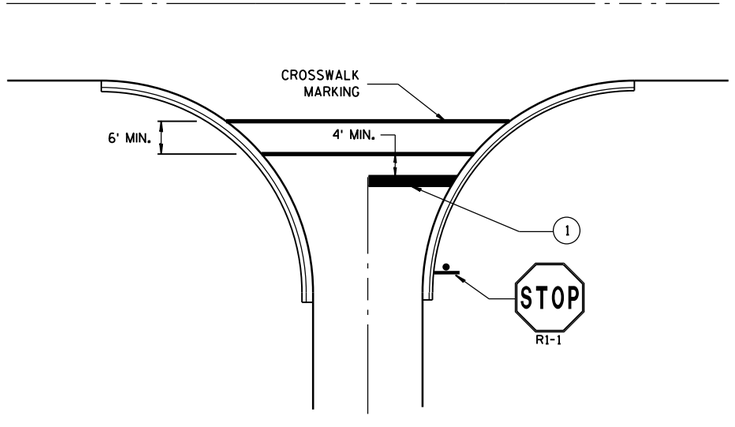
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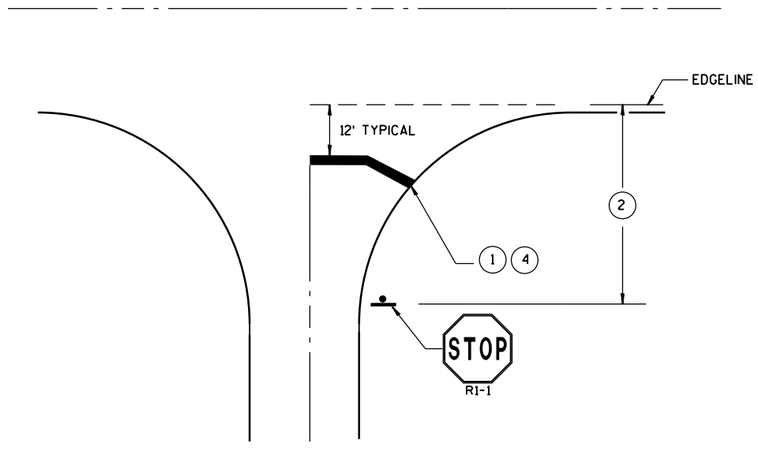
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



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

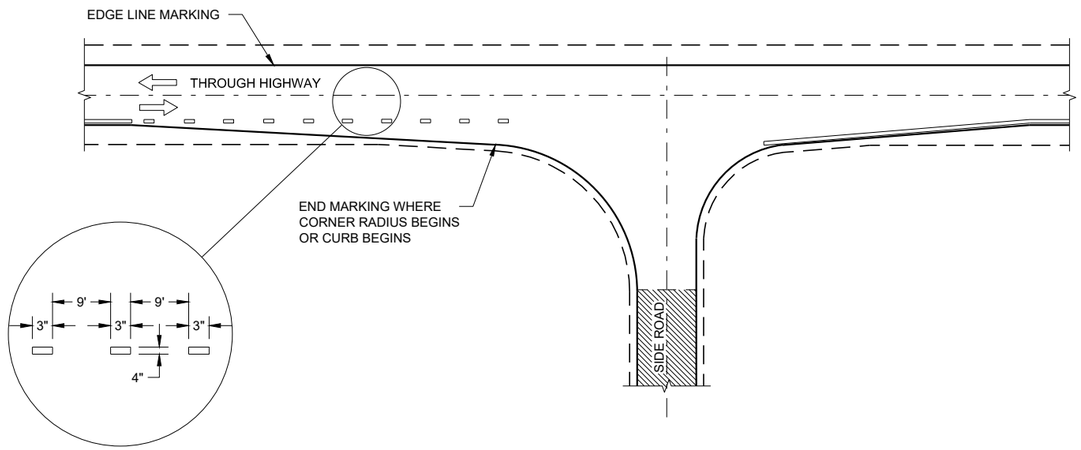
Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR 254 ...EER

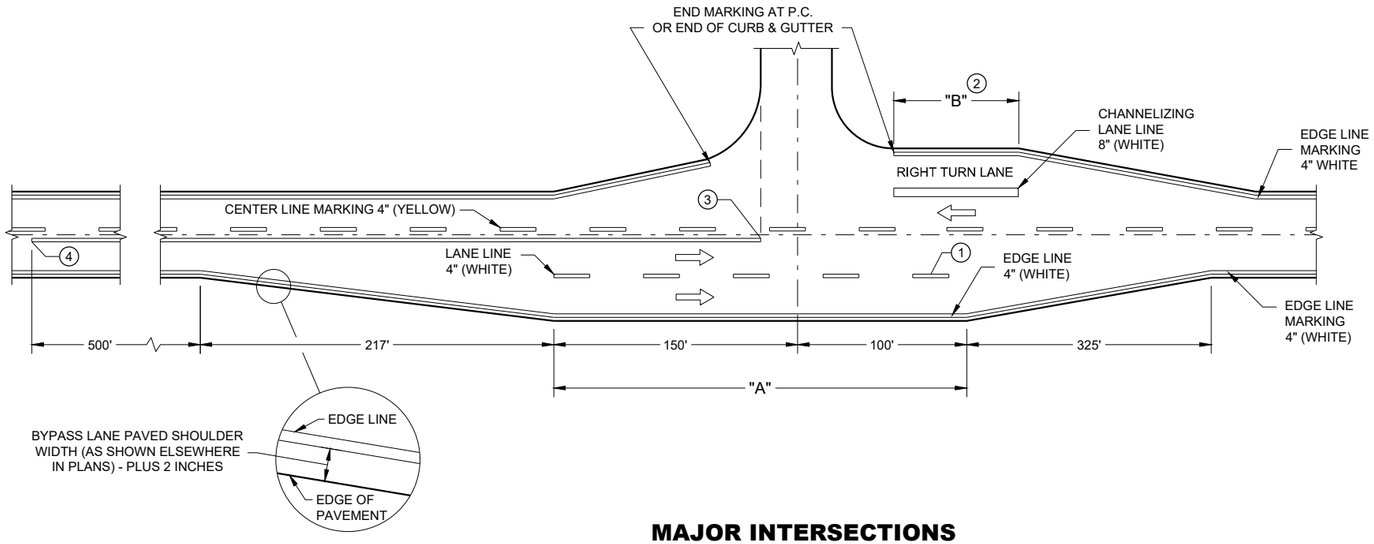
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S.D.D. 15 C 33-3



MINOR INTERSECTION



MAJOR INTERSECTIONS

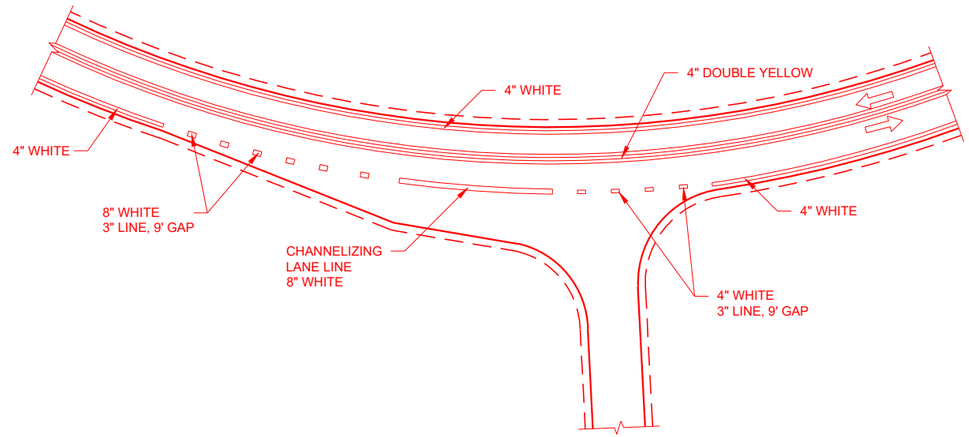
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

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



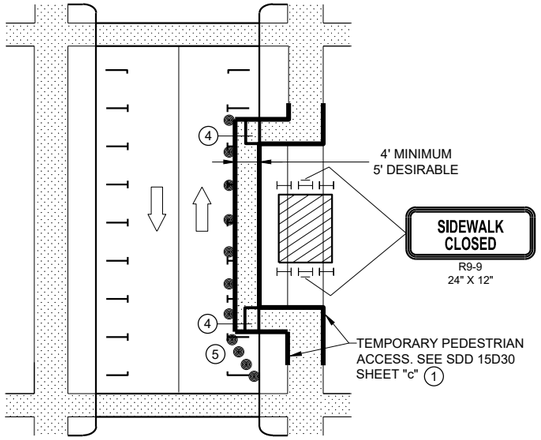
INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

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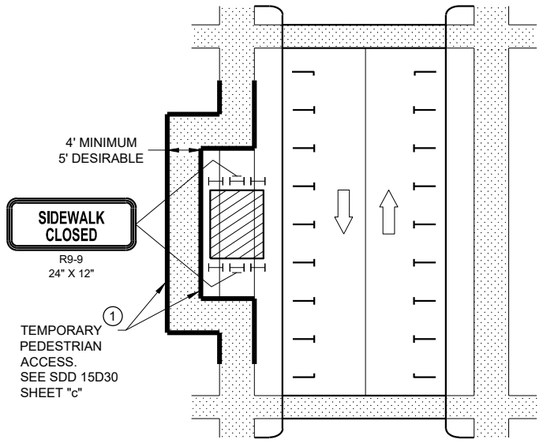
SDD 15C35 - 03a

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

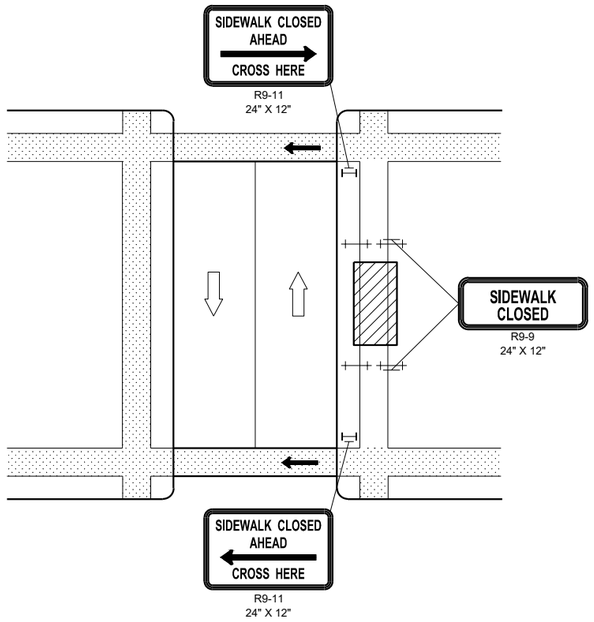


MID-BLOCK SIDEWALK SIDEWALK CLOSURE IN PARKING LANE

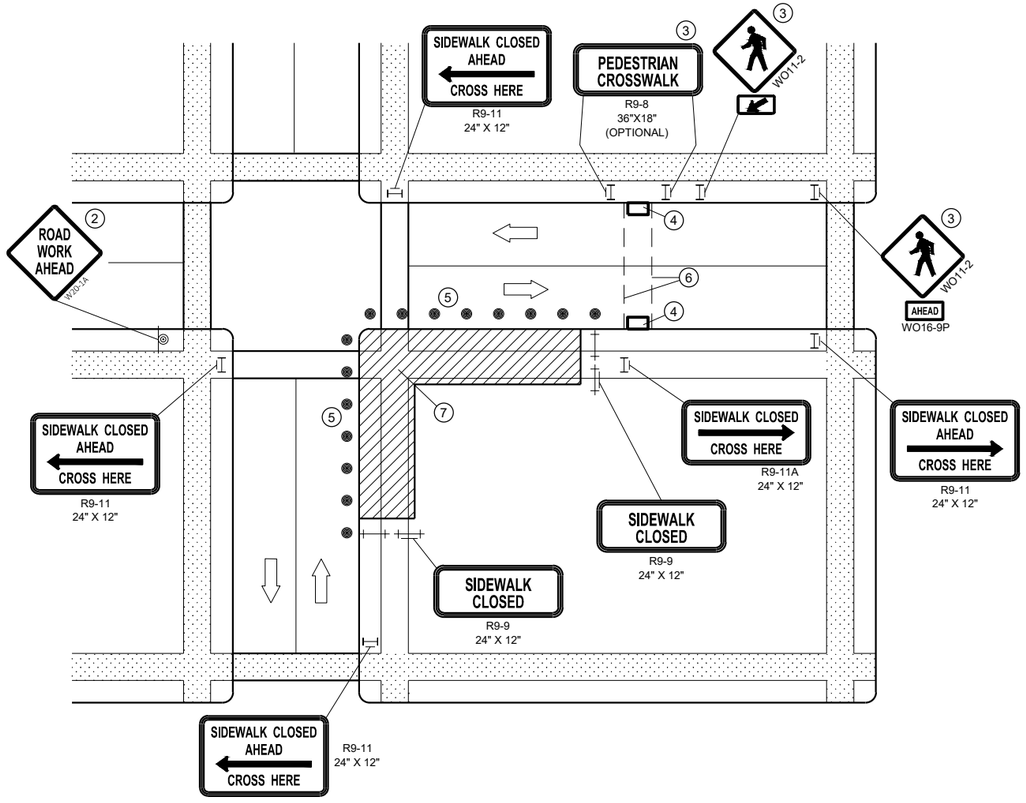
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

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

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEK LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

(1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE

(2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

(3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.

(5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

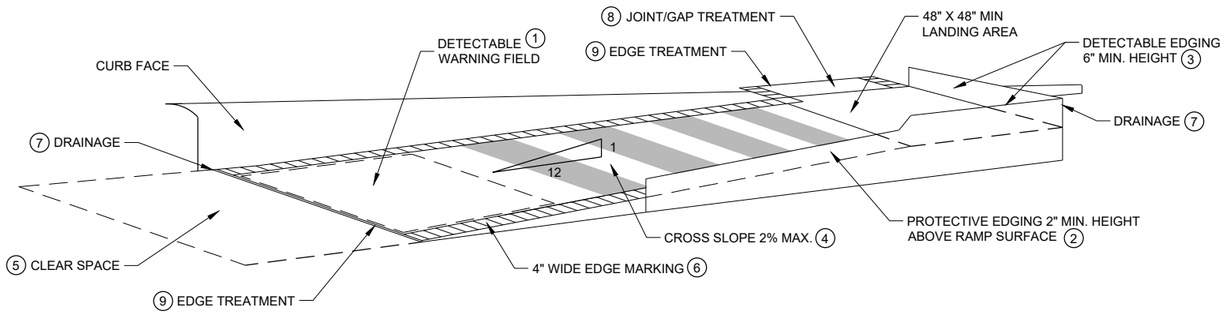
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

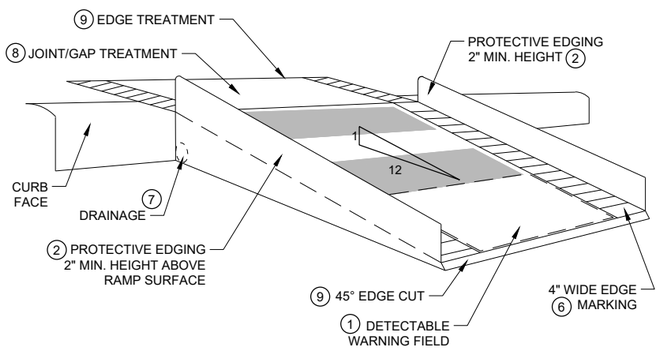
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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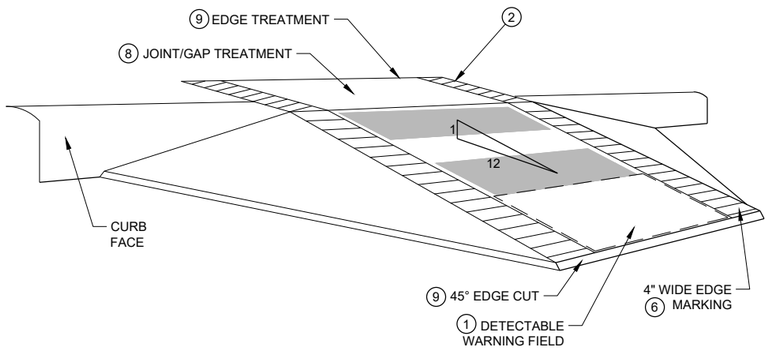
SDD 15D30 - 05a
SDD15D30 - 05a



TEMPORARY CURB RAMP PARALLEL TO CURB



WITH PROTECTIVE EDGE



WITH SIDE APRON

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

LEGEND

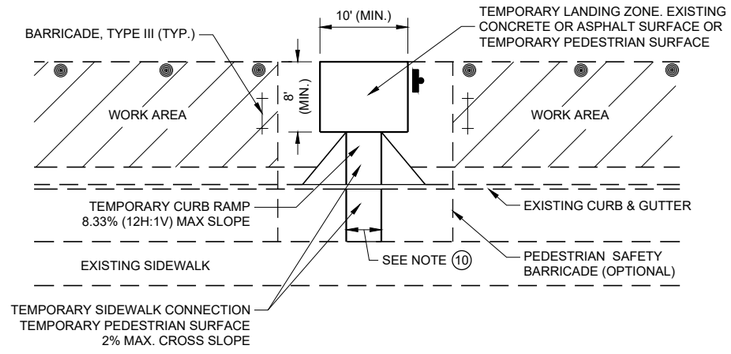
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- WORK AREA

GENERAL NOTES

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 08D05, SHEET "e".
2. PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
5. CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
7. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES SHALL BE VERTICAL UP TO ¼" HIGH AND BEVELED AT 1:2 BETWEEN ¼" AND ½".
10. 5" WIDE MIN. WITH PEDESTRIAN SAFETY BARRICADE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY BARRICADE.



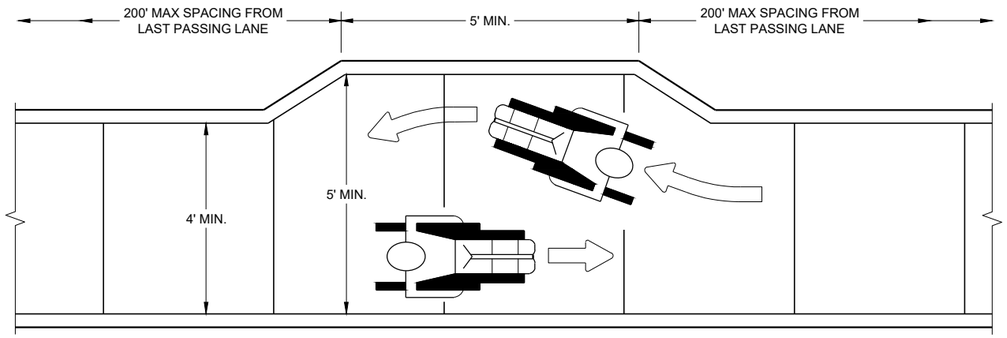
TEMPORARY BUS STOP PAD

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

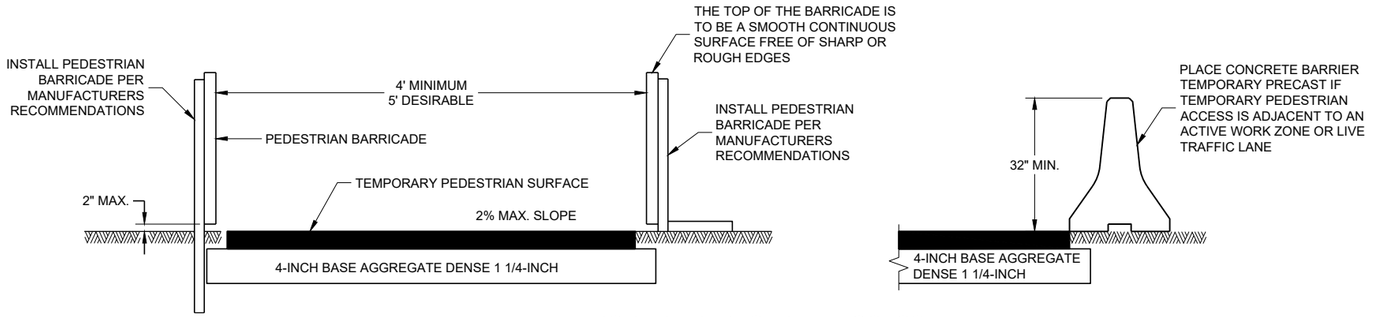
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 15D30 - 05b

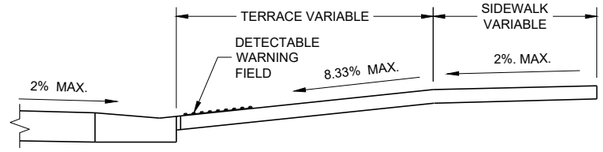
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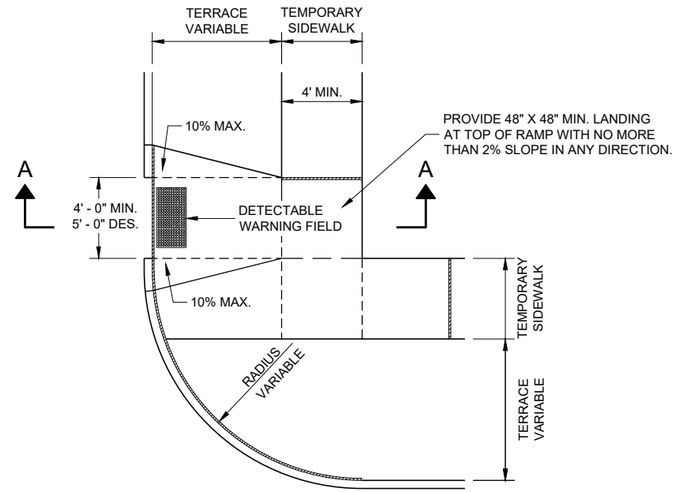
NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN ACCESS



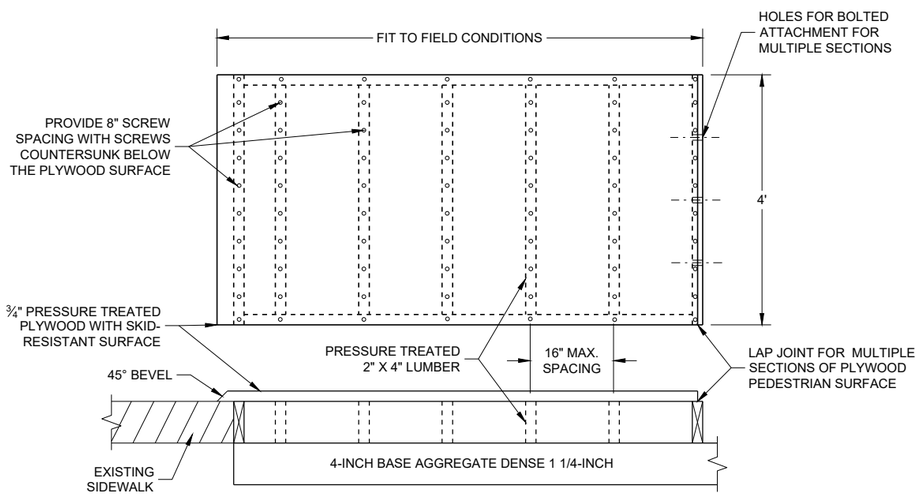
SECTION A - A



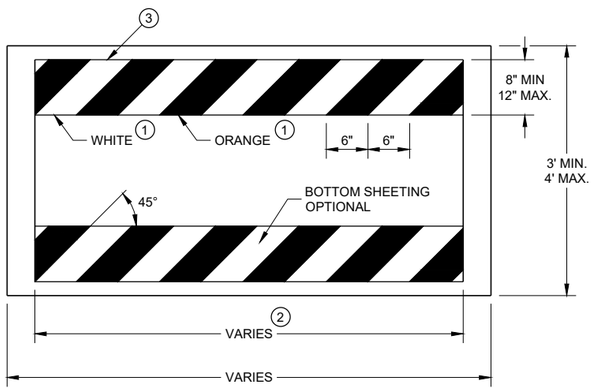
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



TEMPORARY PEDESTRIAN BARRICADE *

GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

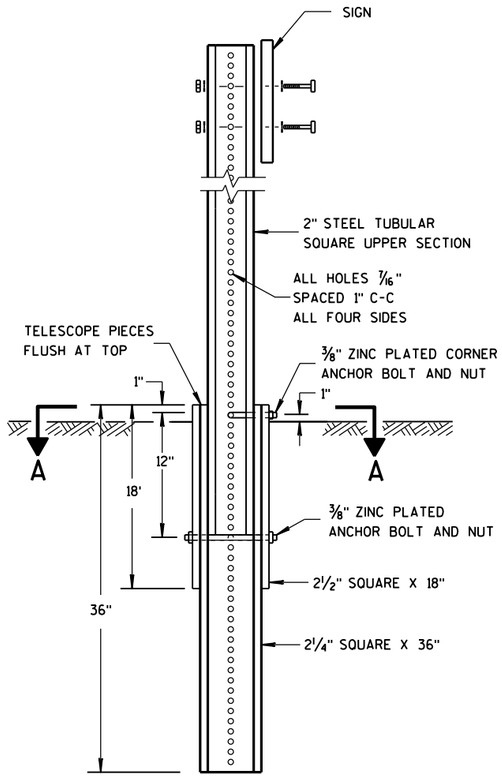
/S/ Andrew Heidtke
WORK ZONE ENGINEE 258

FHWA

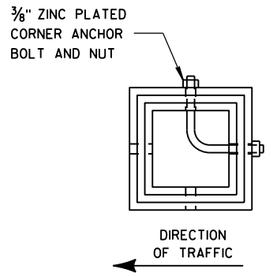
SDD 15D30 - 05c

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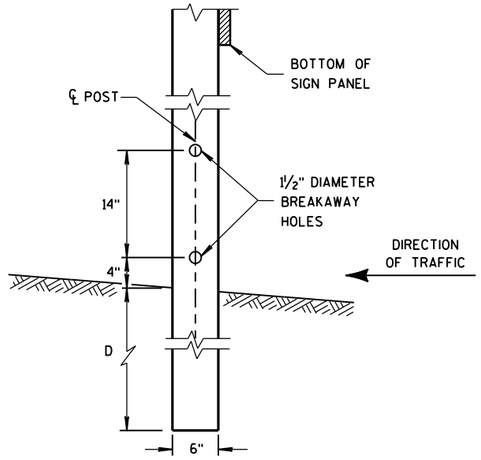
SDD 15D30 - 05c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



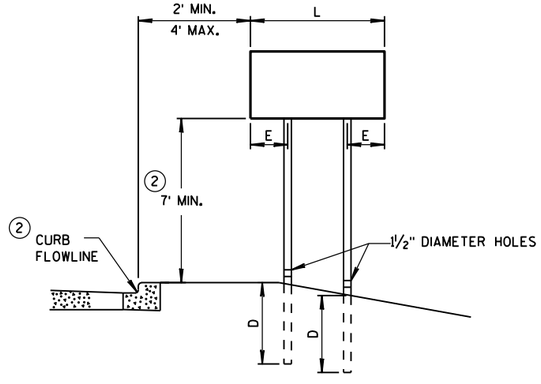
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

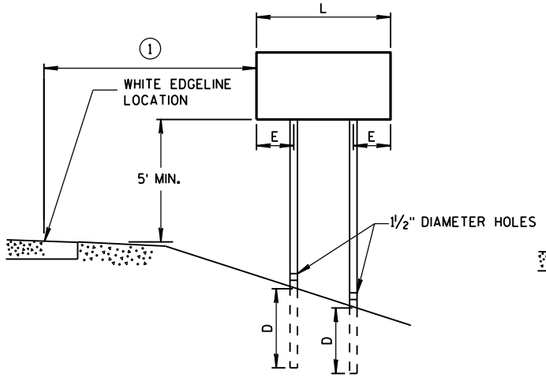
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

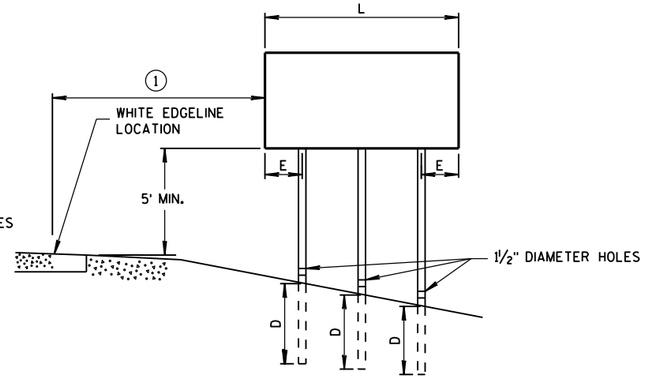
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK 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

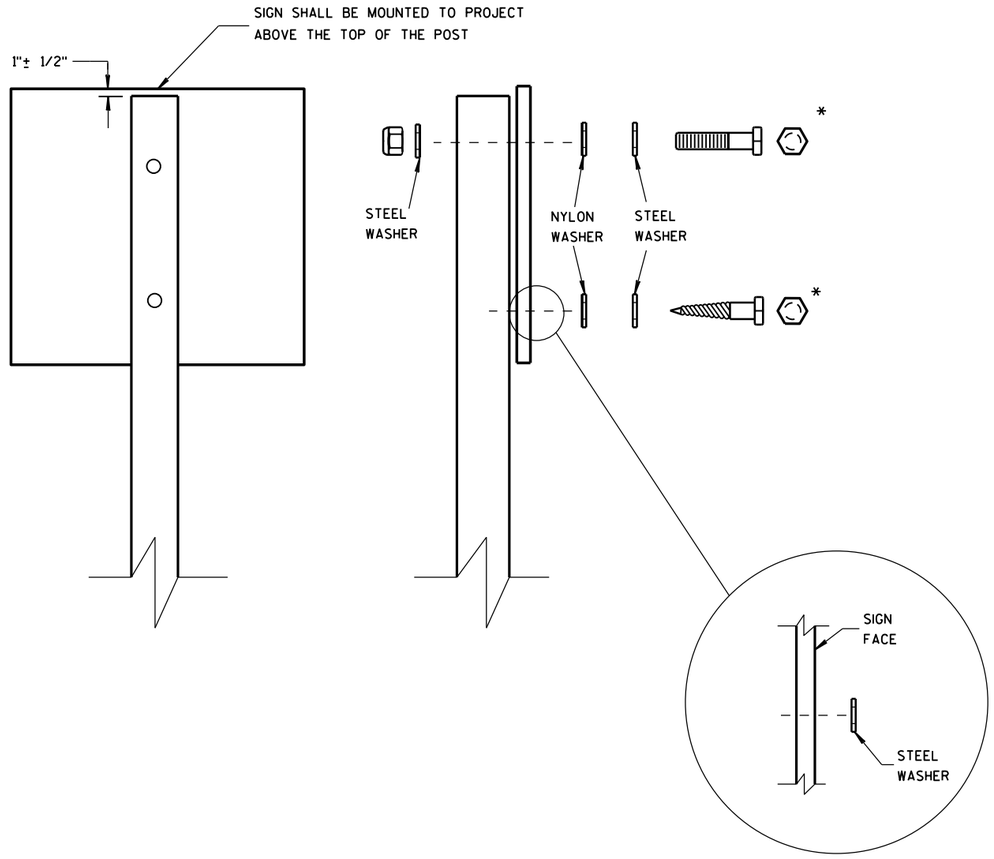
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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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.

6

6

S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

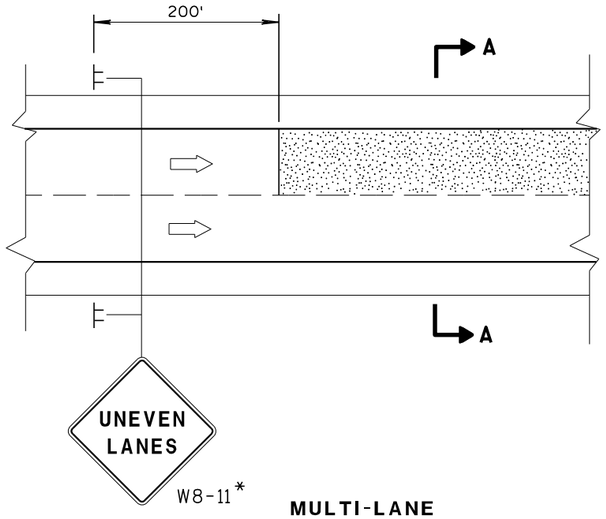
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

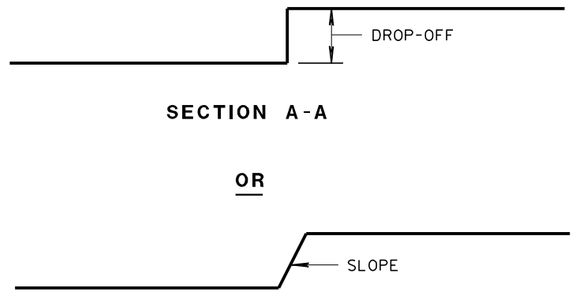
June 2017
DATE

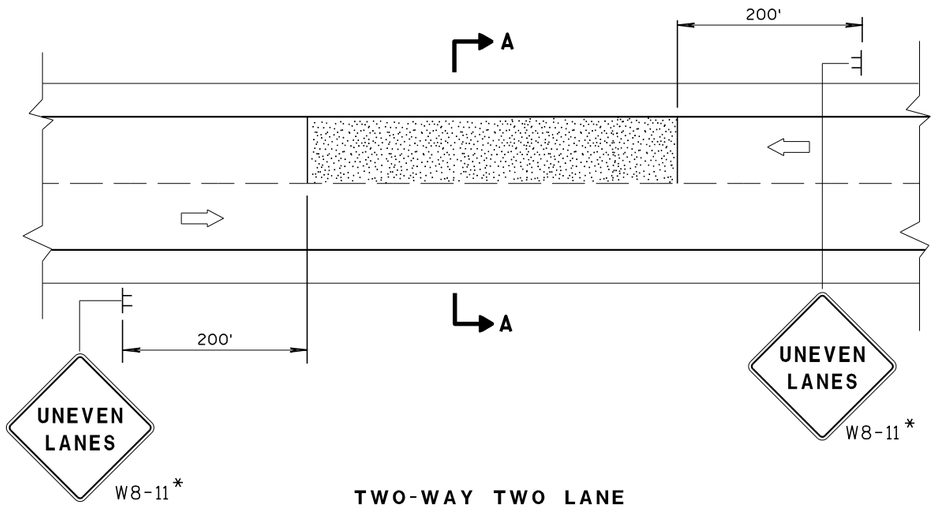
/S/ Andrew Heldtke
WORK ZONE ENG

FHWA

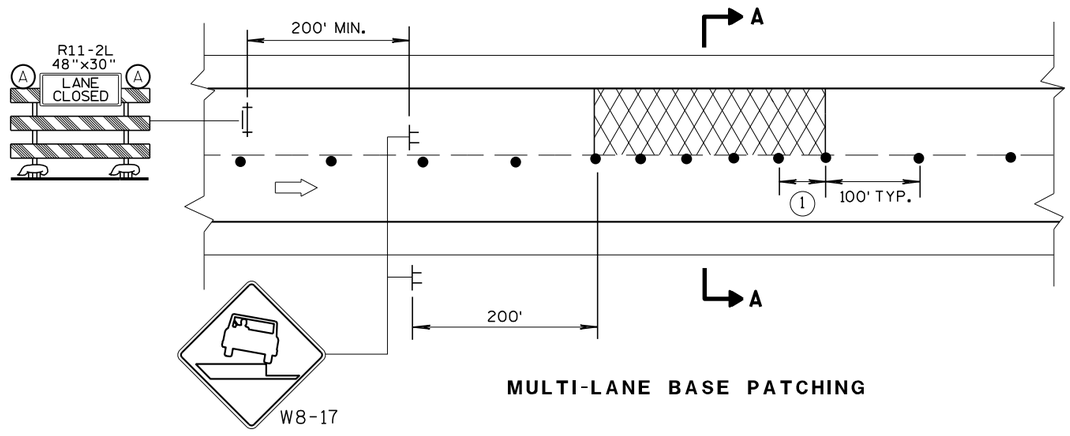


MULTI-LANE



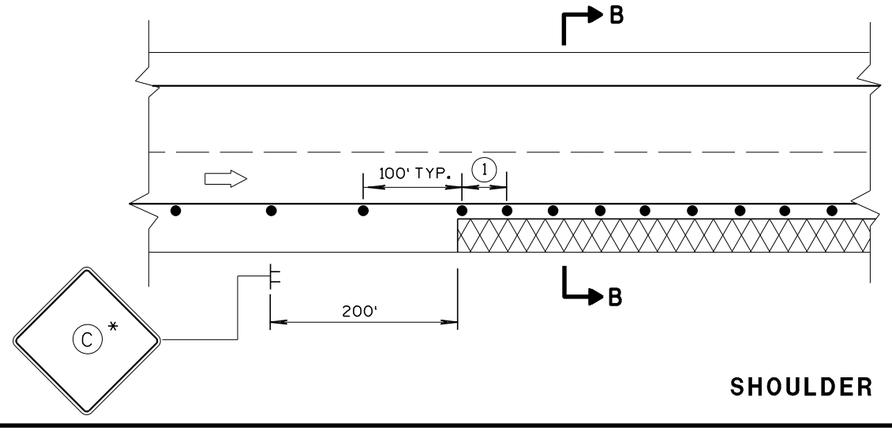


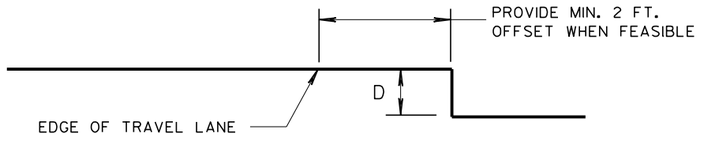
TWO-WAY TWO LANE



MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS





SECTION B-B

SHOULDER DROP-OFFS

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EACH ENTRANCE RAMP.

(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP-OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Andrew H — WORK ZONE EN
FHWA

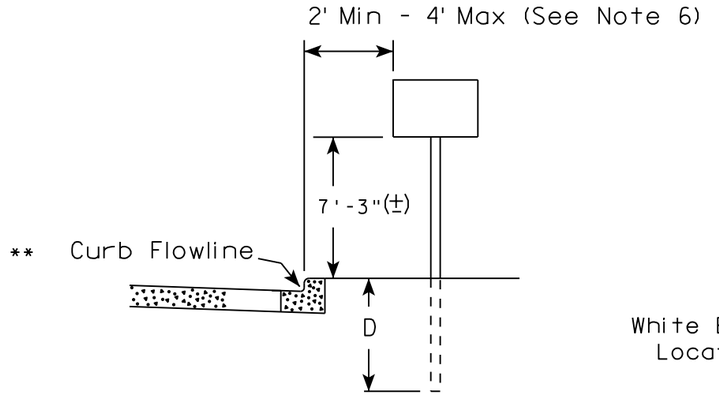
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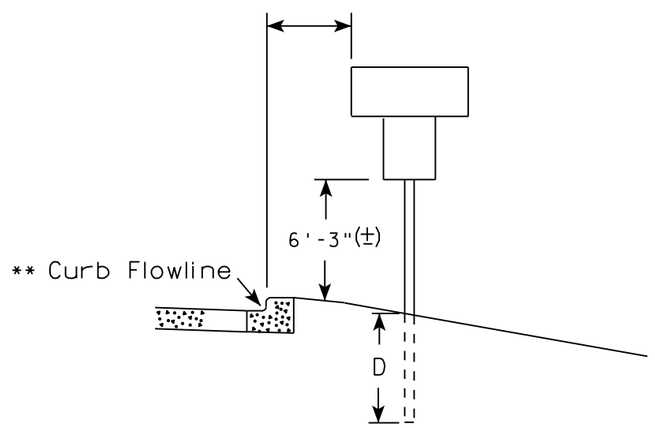
S.D.D. 15 D 39-2

6

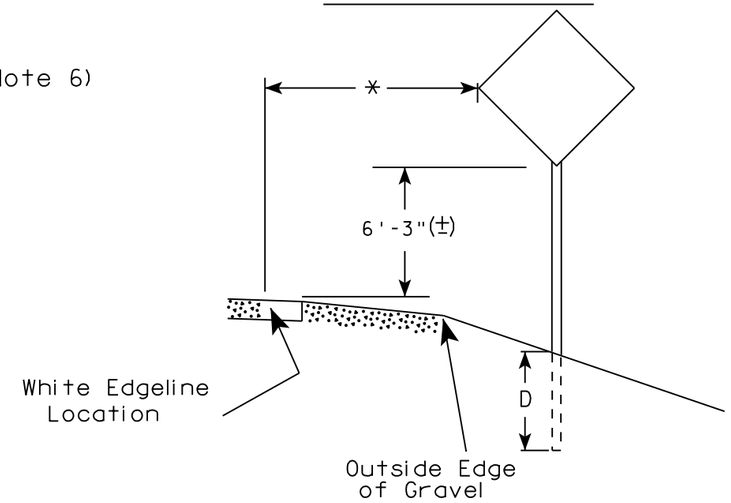
S.D.D. 15 D 39-2

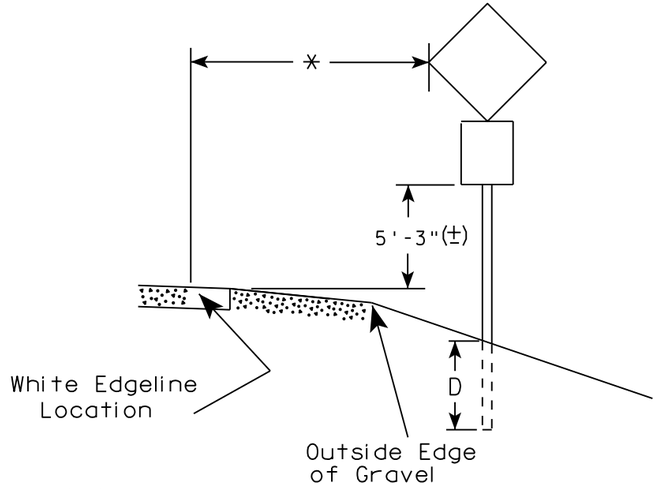
URBAN AREA





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

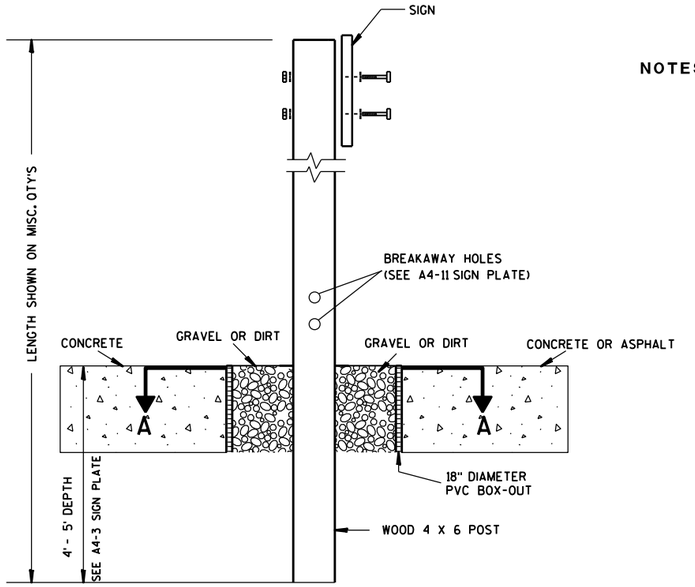
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

7

7

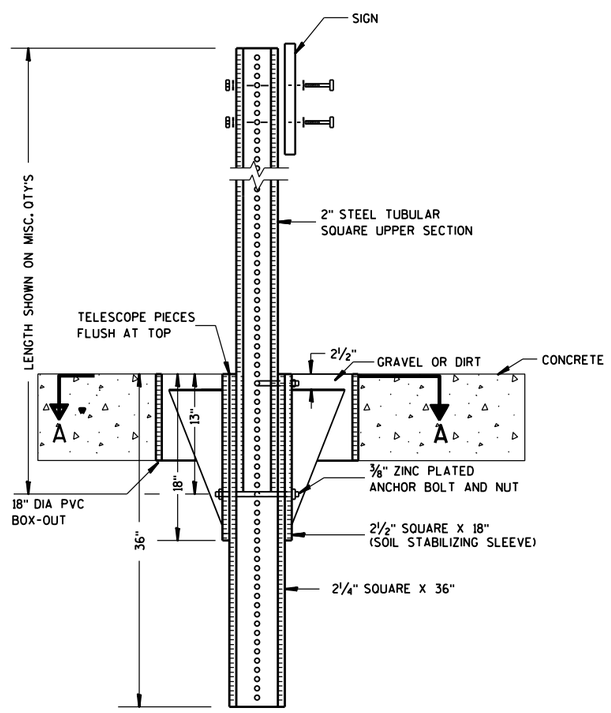
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 262	E



ELEVATION VIEW

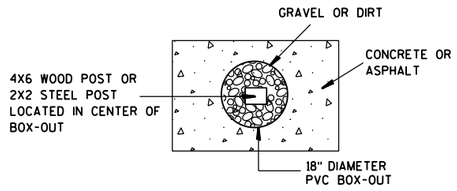
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

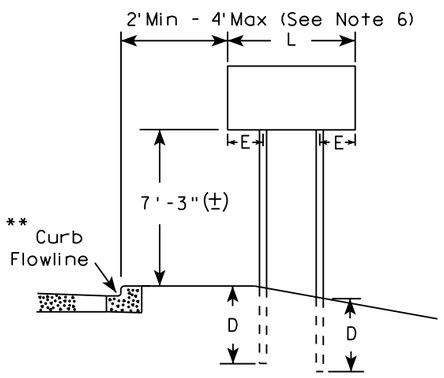
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

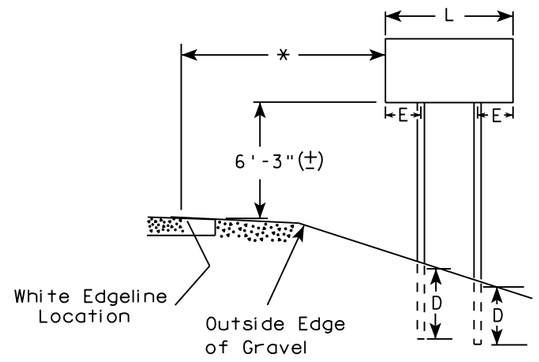
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

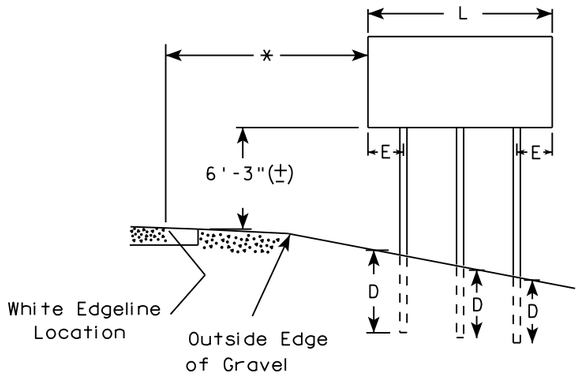
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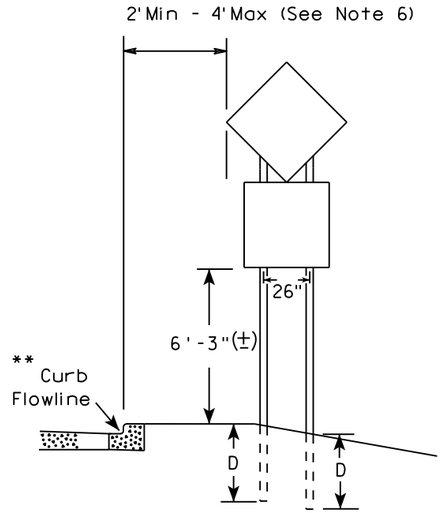
URBAN AREA



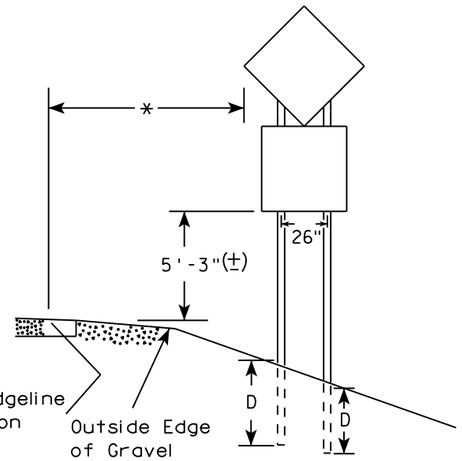
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

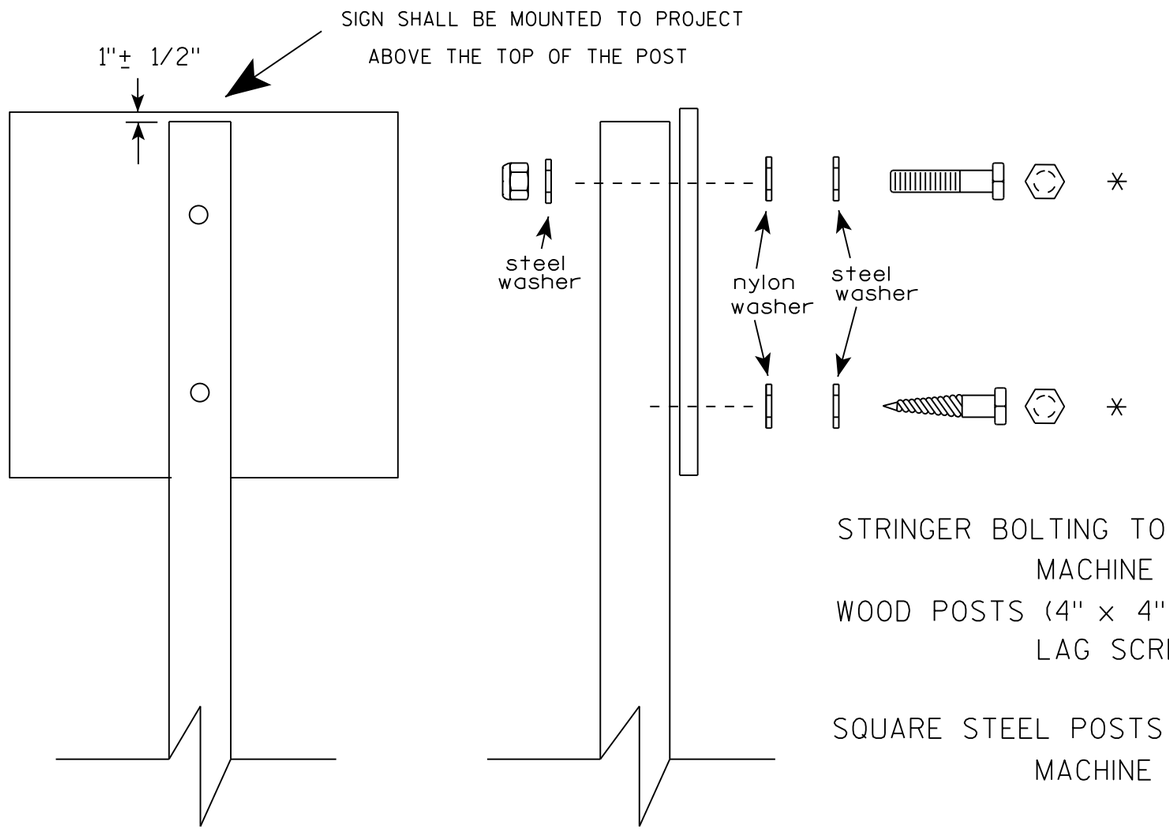
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 264	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

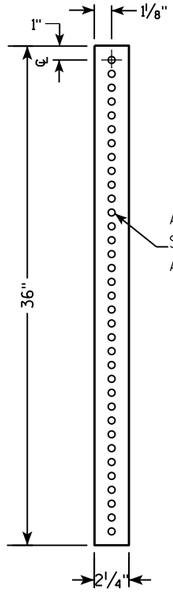
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

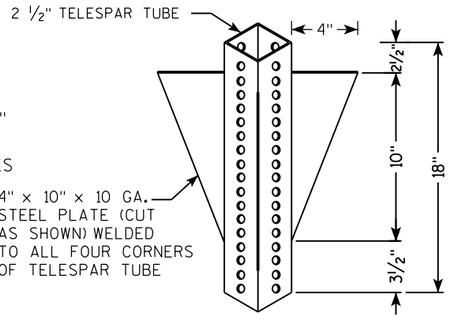
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TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

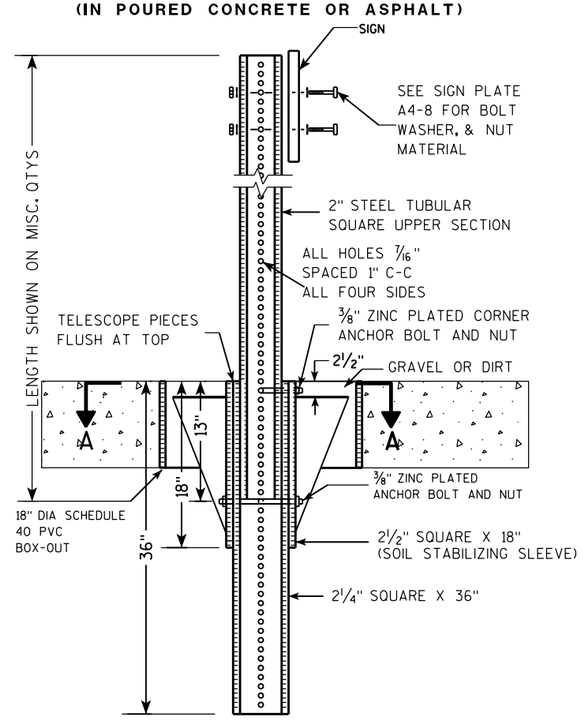
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



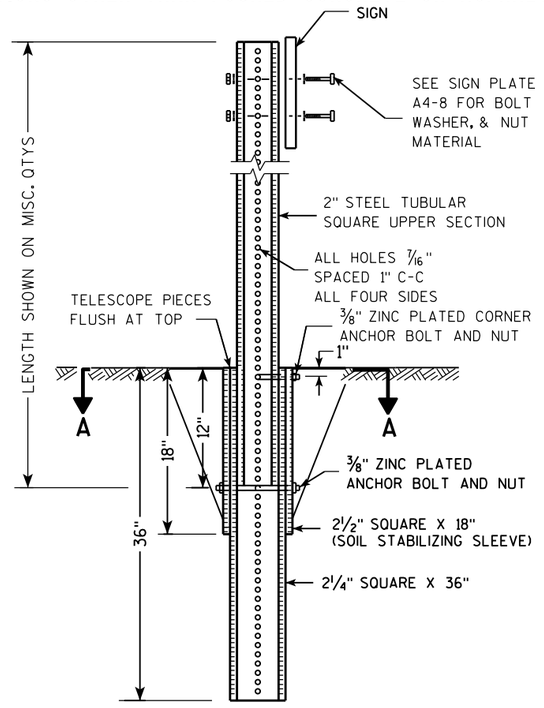
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

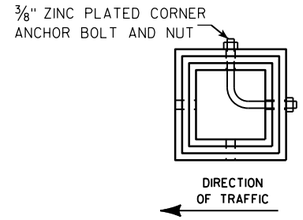


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

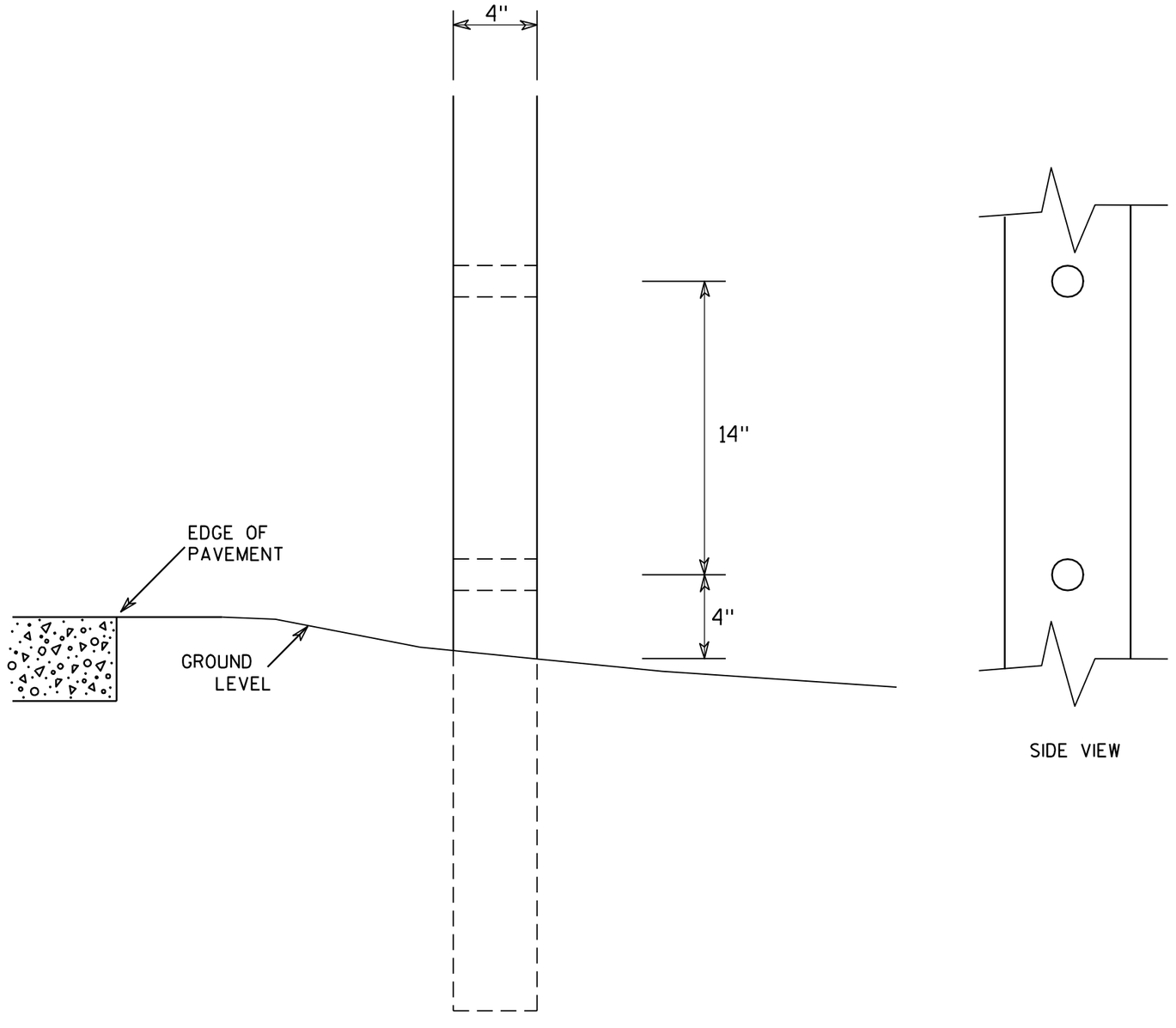
WISCONSIN DEPT OF TRANSPORTATION

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

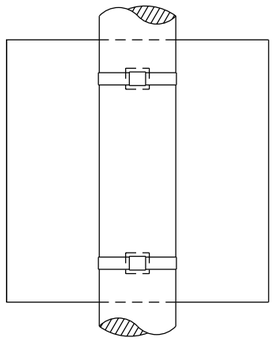
APPROVED Chester J Spang for State Traffic Engineer

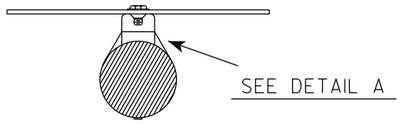
DATE 3/27/97 PLATE NO. A4-11.2

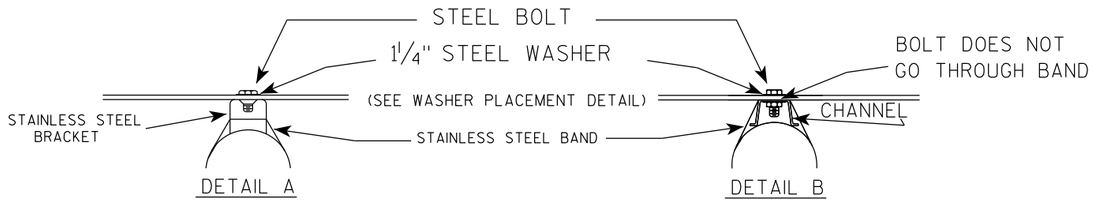
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 267	E

BANDING

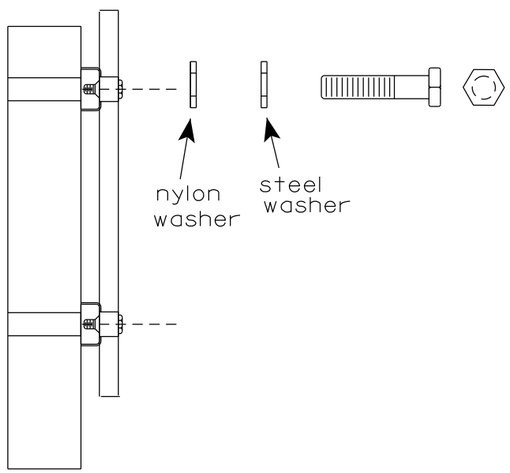
SINGLE SIGN







WASHER PLACEMENT

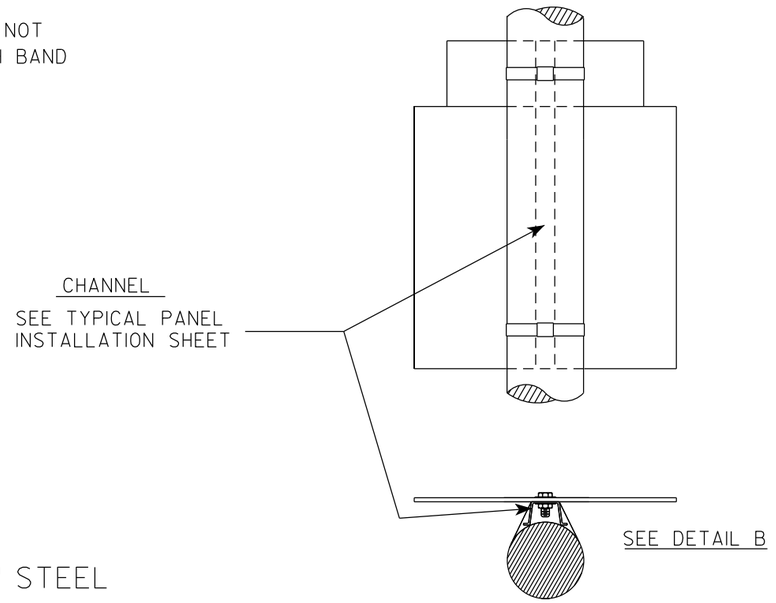


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

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



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

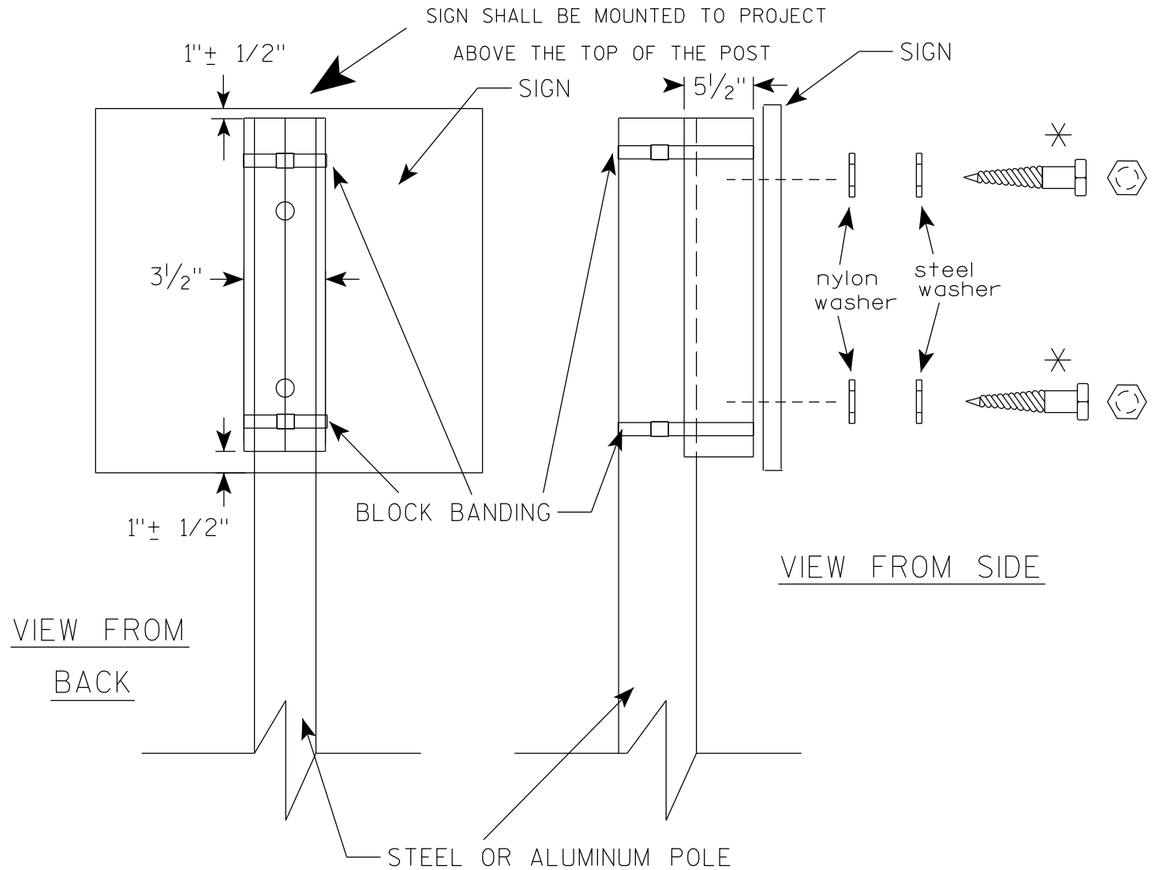
DATE 6/10/19 PLATE NO. A5-9.4

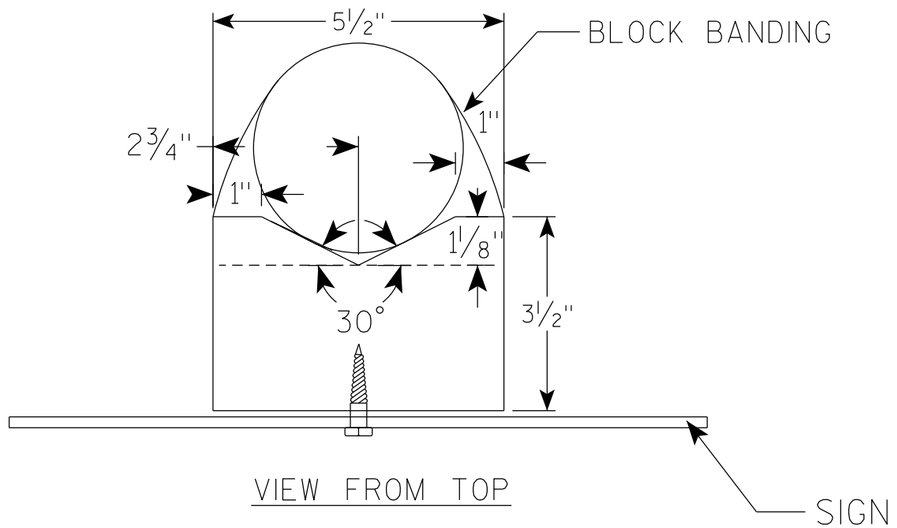
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 268	E

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)

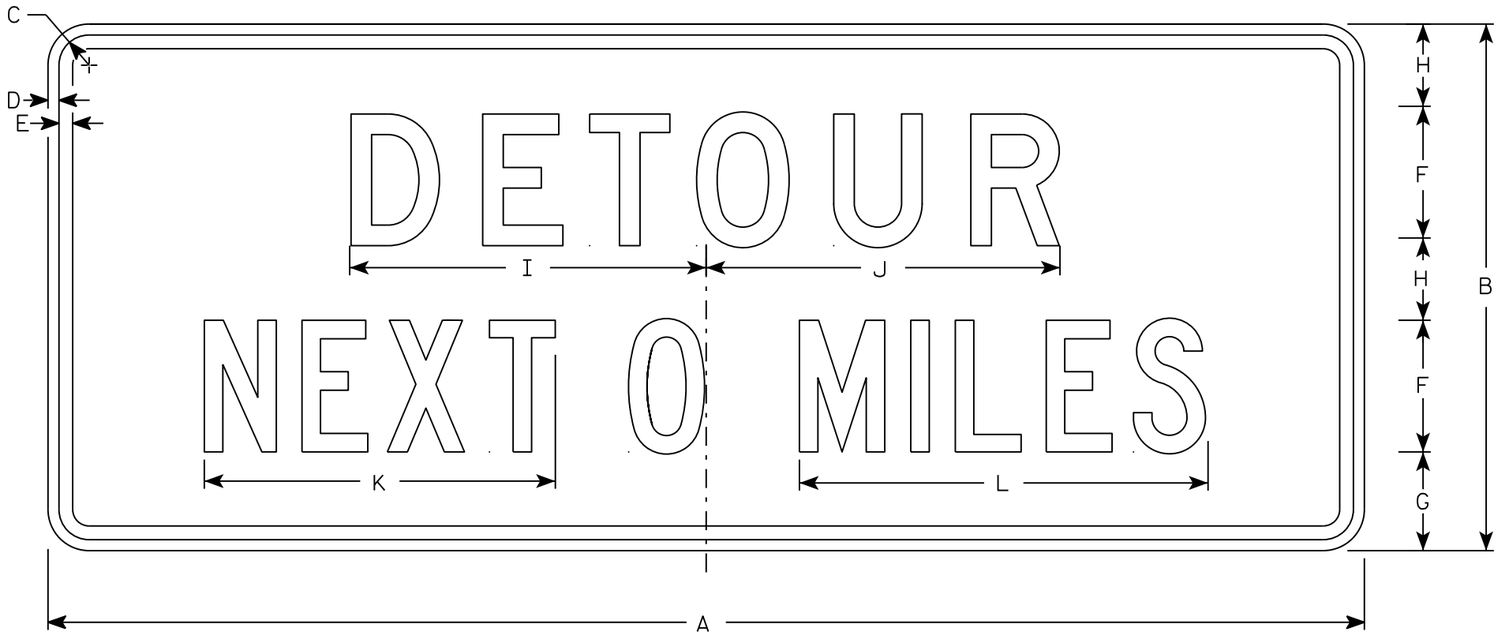
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO:

SHEET NO: 269 E



G20-51

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - Line 1 is D and Line 2 is 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. Round distance to nearest whole Mile and 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																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10
5																											

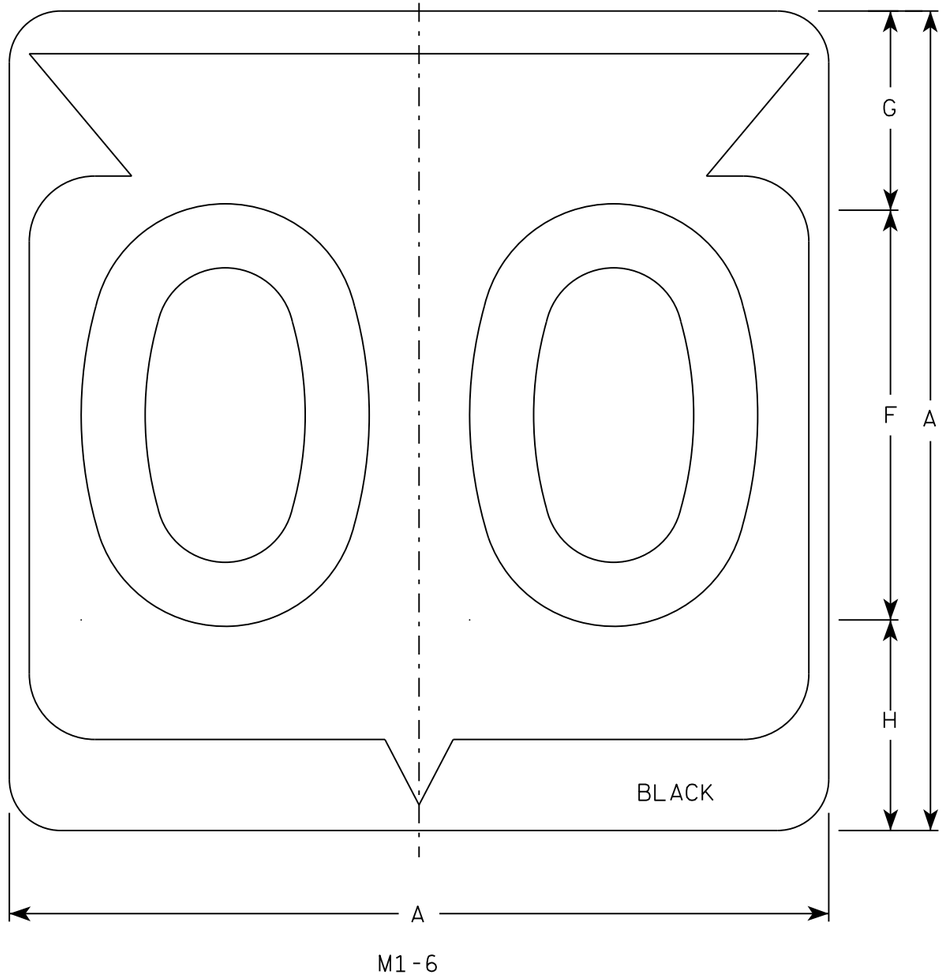
STANDARD SIGN
G20-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-51.2

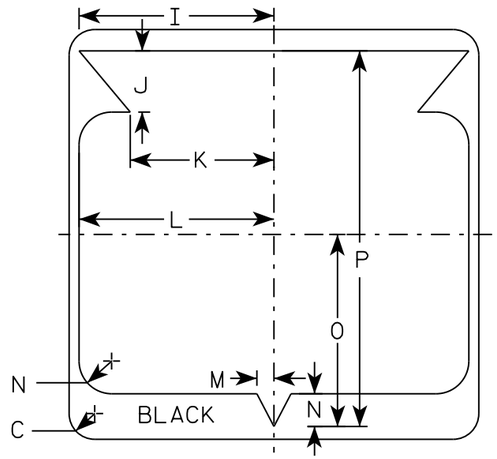
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 270 | E



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

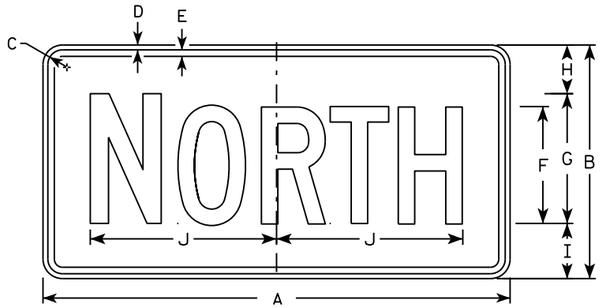
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

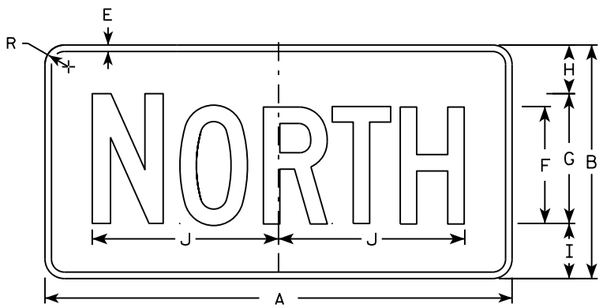
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 271 E



M3-1
MM3-1
MP3-1



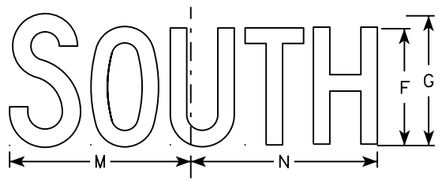
MB3-1
MK3-1
MN3-1



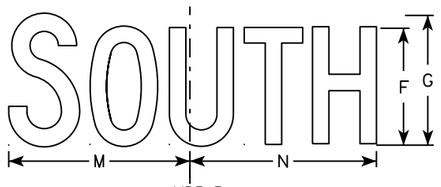
M3-2
MM3-2
MP3-2



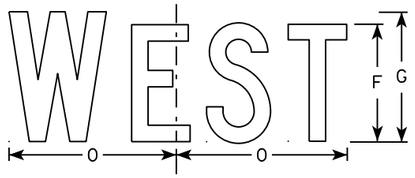
MB3-2
MK3-2
MN3-2



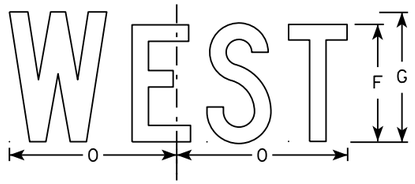
M3-3
MM3-3
MP3-3



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

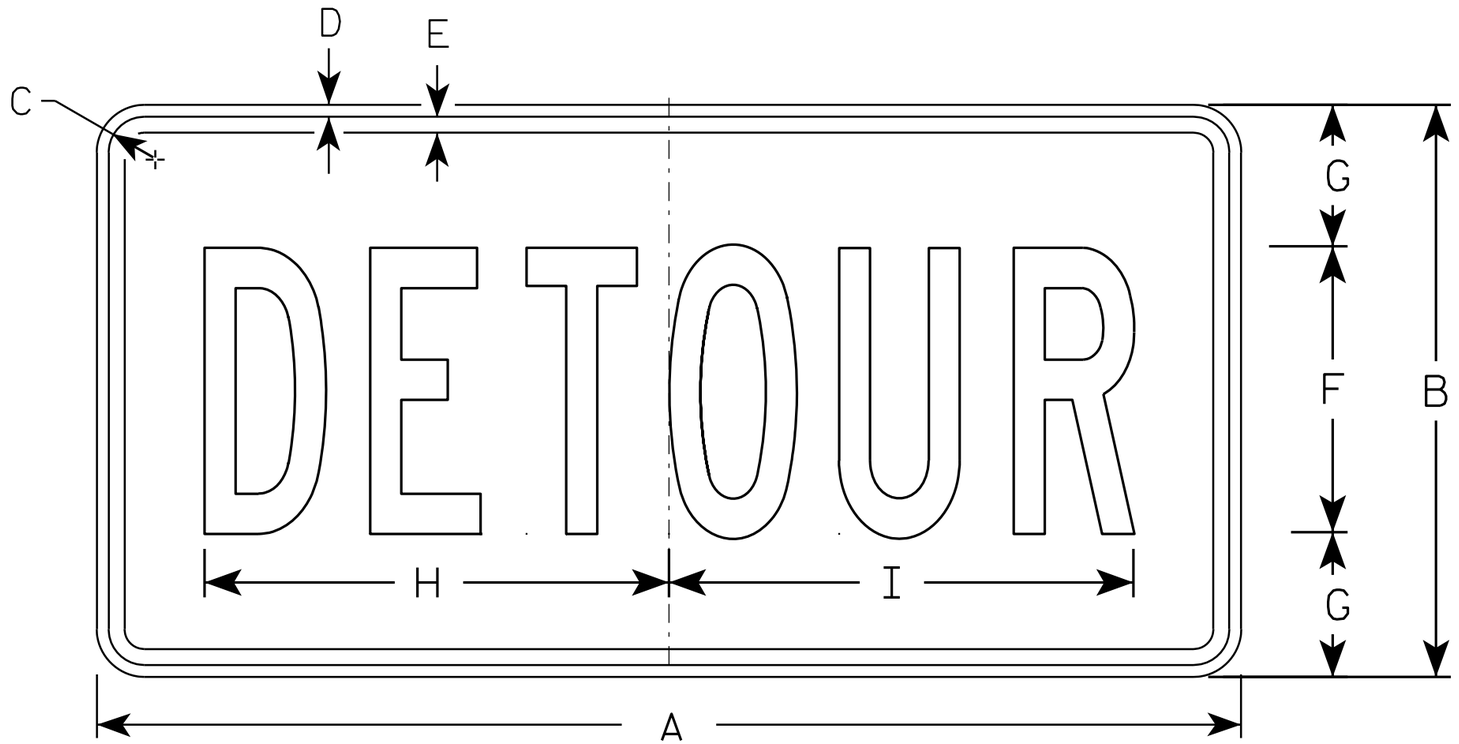
WISCONSIN DEPT OF TRANSPORTATION

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



M4-8

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																											

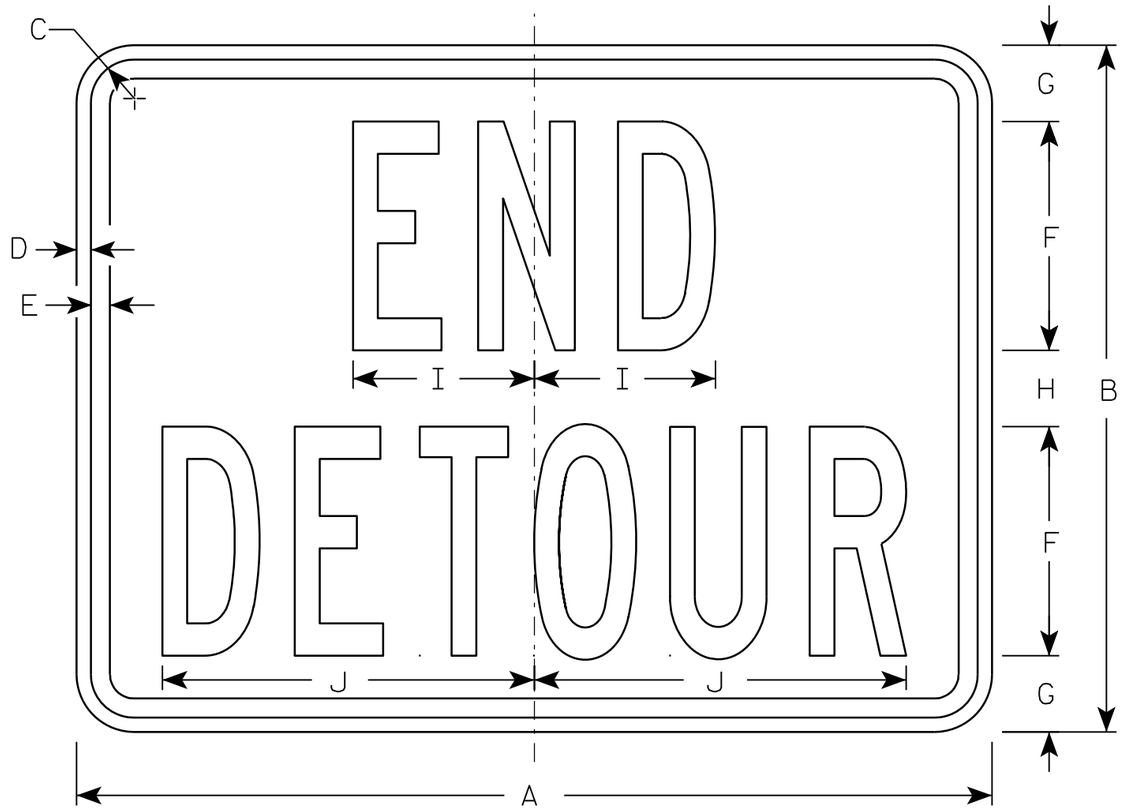
STANDARD SIGN
M4-8

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: 273	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																											

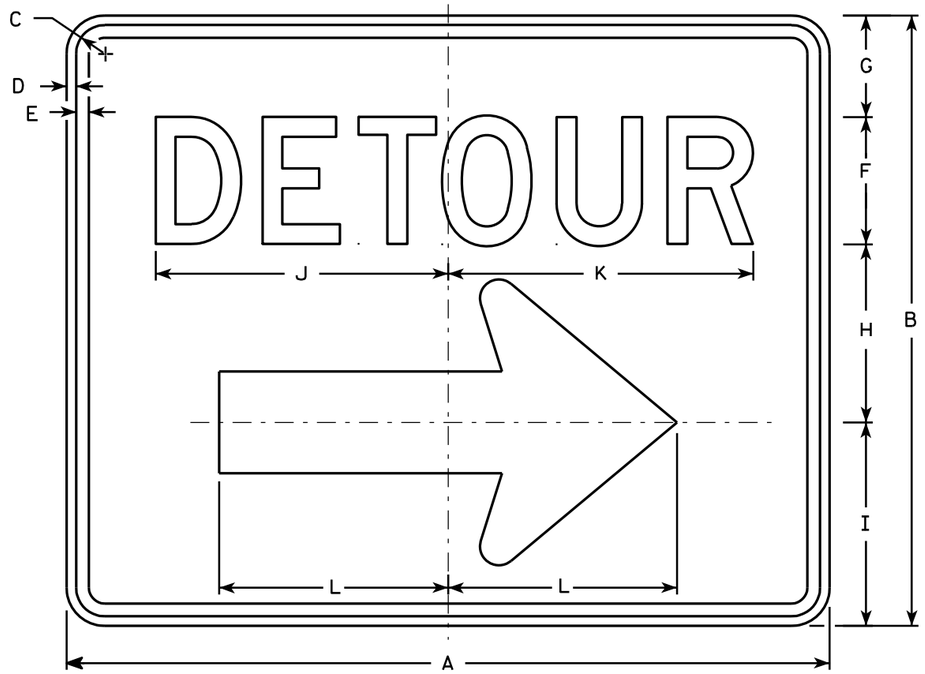
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

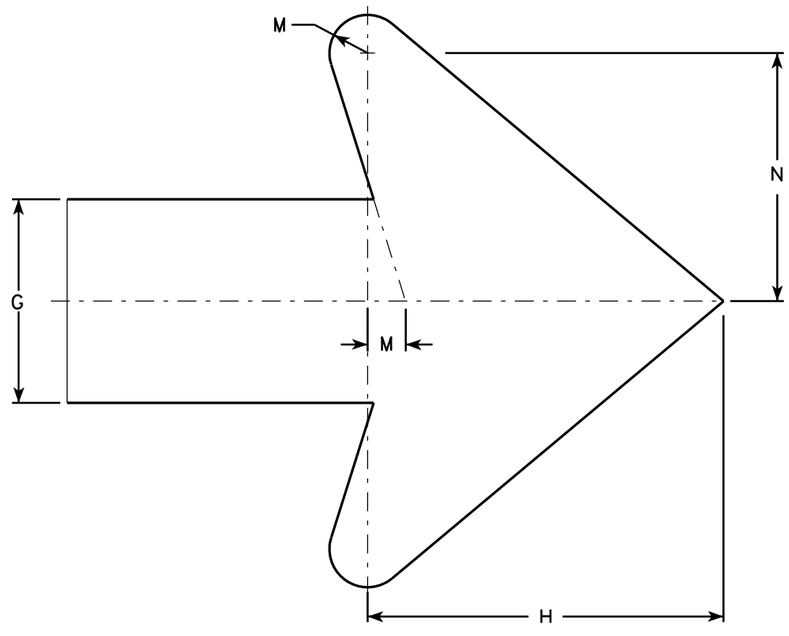
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 274	E



M4-9R

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 - 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. M4-9L is the same as M4-9R except the arrow 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																											
2	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

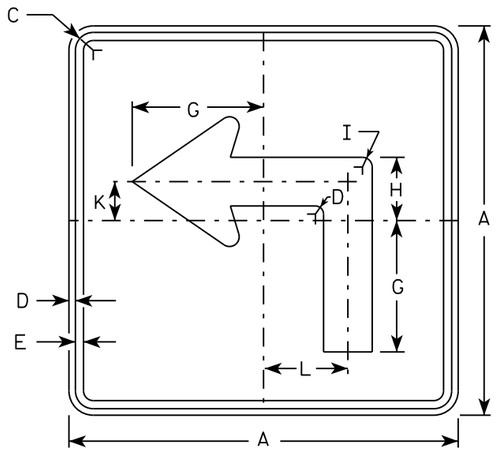
STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

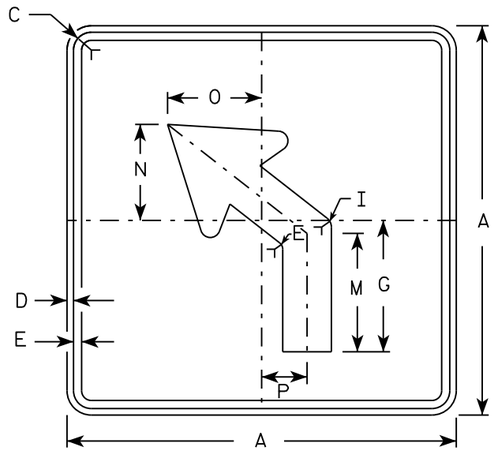
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-9R.4

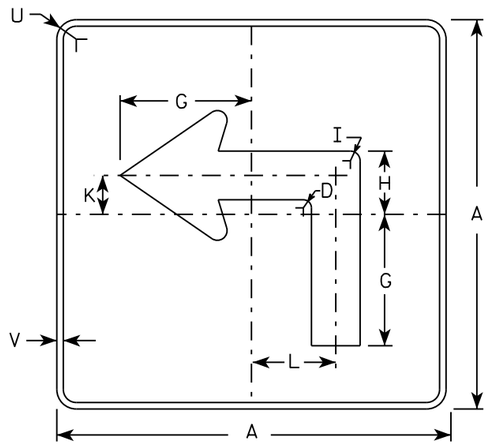
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 275 | E



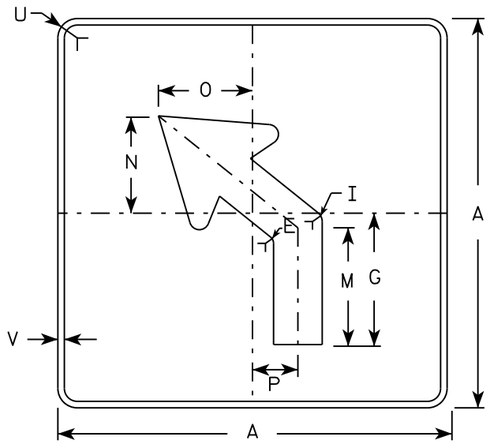
M5-1L
MM5-1L
MO5-1L
MP5-1L



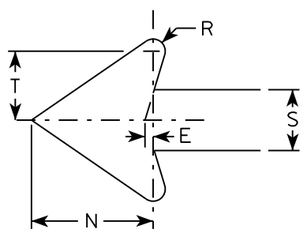
M5-2L
MM5-2L
MO5-2L
MP5-2L



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

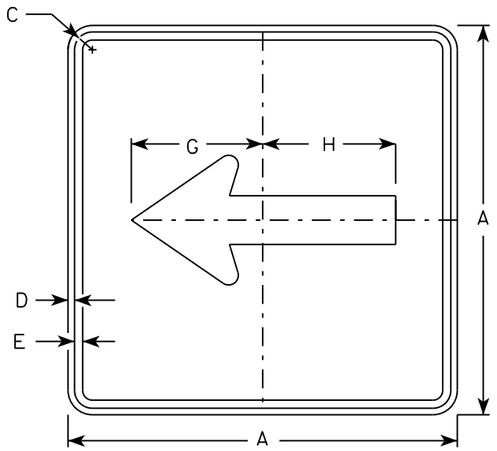
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

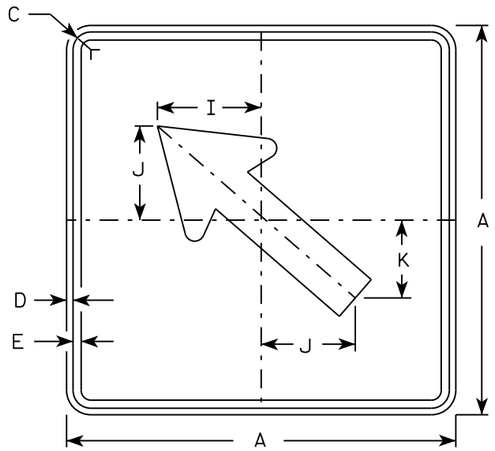
DATE 10/15/15 PLATE NO. M5-1.13

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



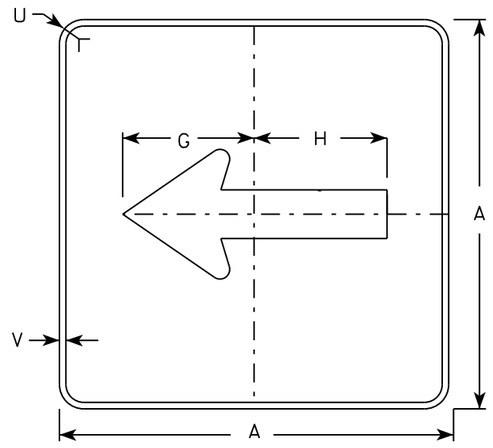
M6-1
MM6-1
MO6-1
MP6-1



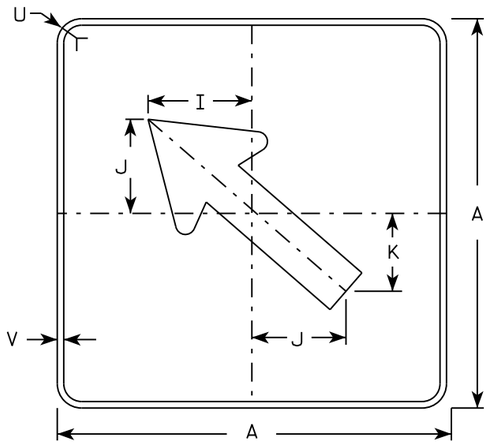
M6-2
MM6-2
MO6-2
MP6-2

NOTES

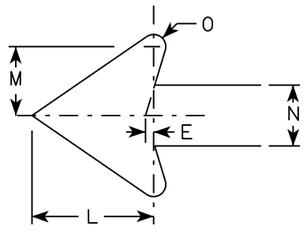
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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

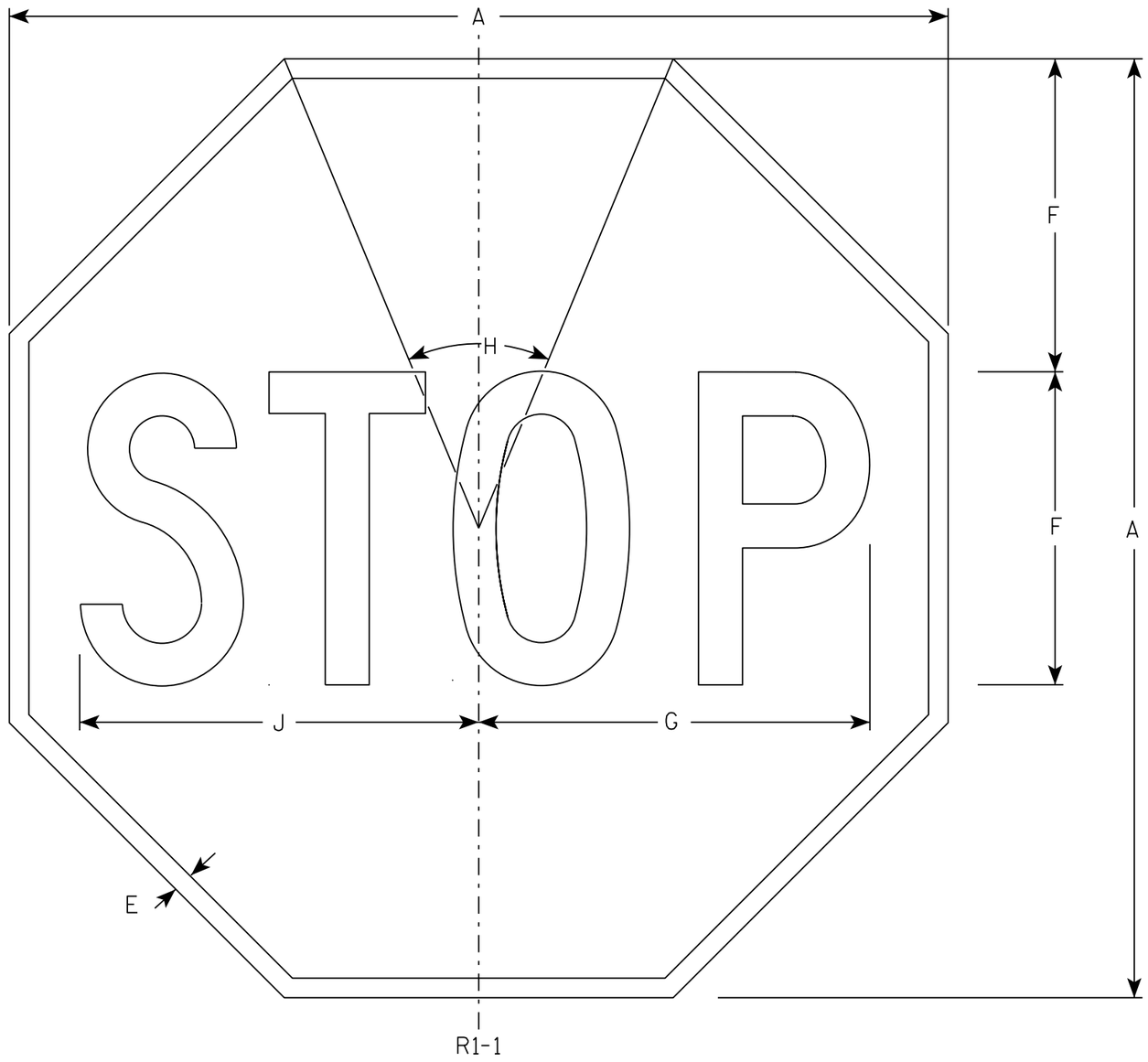
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATI 277 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



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

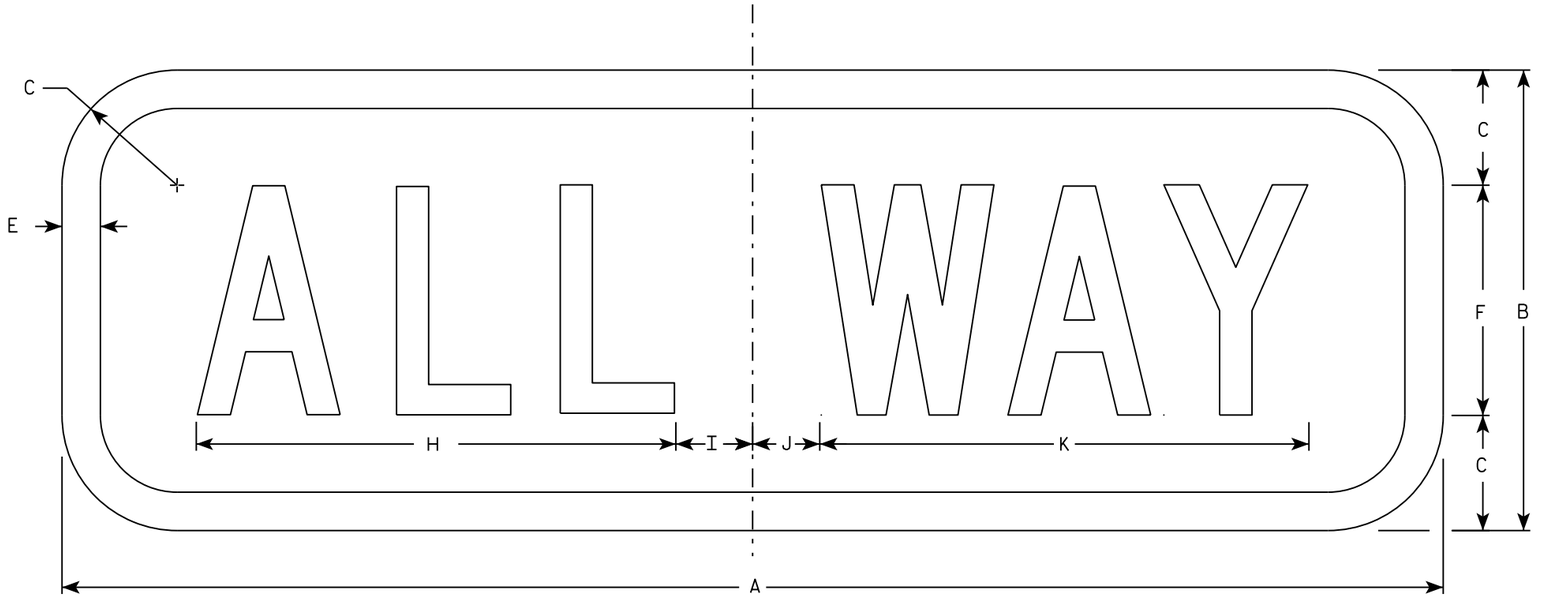
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 278	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. For 30"x30" R1-1 use 18"x6" R1-3P sign
   For 36"x36" R1-1 use 24"x9" R1-3P sign
   For 48"x48" R1-1 use 30"x12" R1-3P sign



R1-3P

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	6	1 1/2		1/2	3		6 1/4	1 1/4	7/8	6 3/8																0.75
2S	18	6	1 1/2		1/2	3		6 1/4	1 1/4	7/8	6 3/8																1.5
2M	24	9	1 1/2		1/2	5		9 1/4	1 1/4	3/4	9 3/4																1.5
3	24	9	1 1/2		1/2	5		9 1/4	1 1/4	3/4	9 3/4																1.5
4	30	12	2 1/4		5/8	6		11	2 1/4	1 1/2	11 3/4																2.5
5	30	12	2 1/4		5/8	6		11	2 1/4	1 1/2	11 3/4																2.5

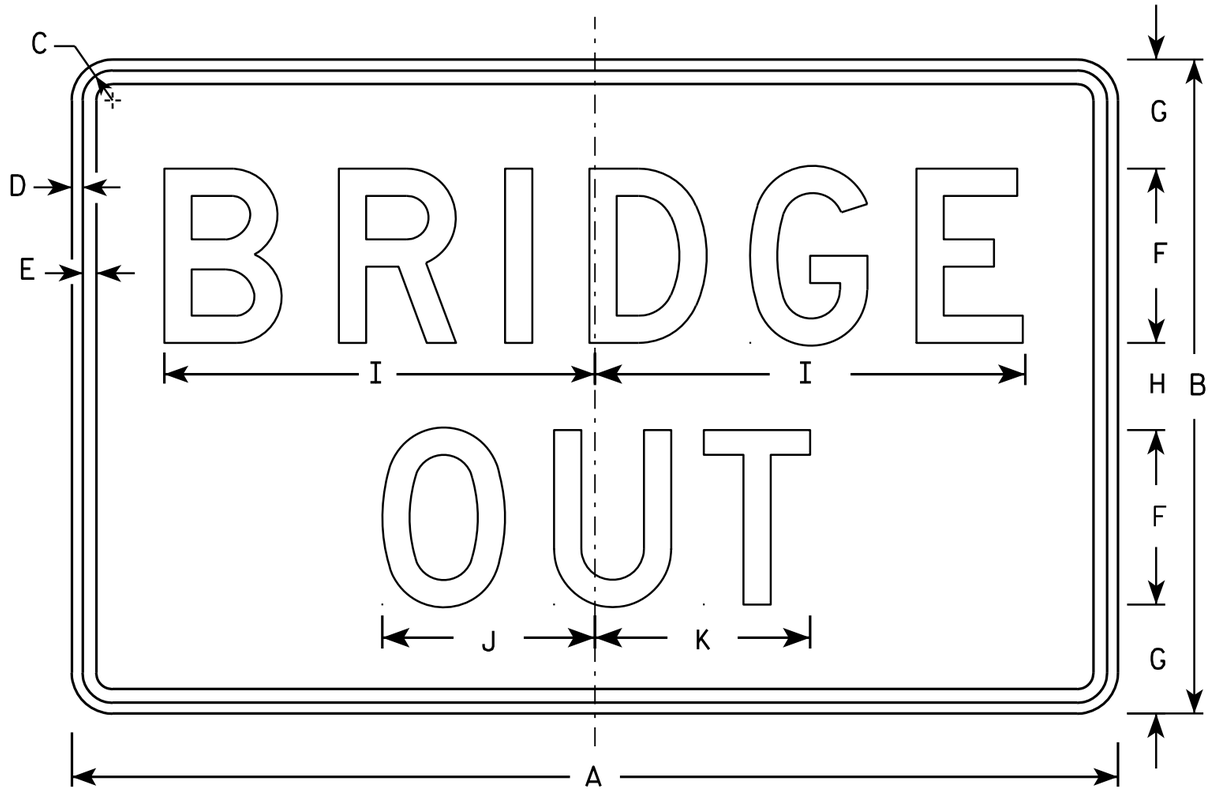
STANDARD SIGN
R1-3P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/29/16 PLATE NO. R1-3P.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 279 | E



R11-2B

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																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0

STANDARD SIGN
R11-2B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

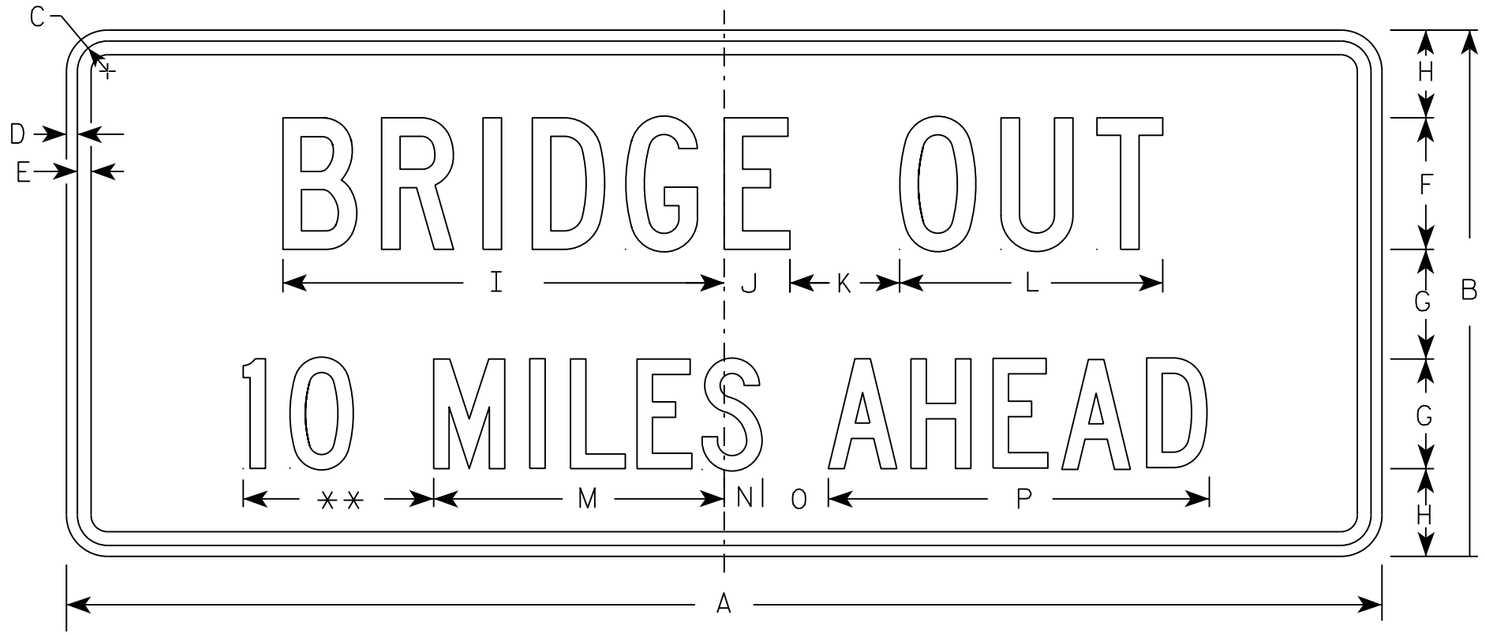
DATE 4/1/11 PLATE NO. R11-2B.2

PROJECT NO:

SHEET NO: 280 E

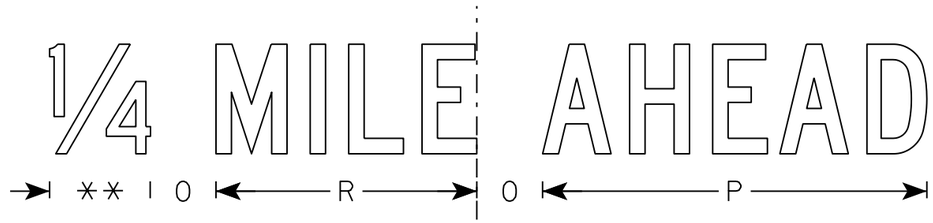
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3C

** 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.
1	36	15	1 3/8	1/2	5/8	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4		7 1/8									3.75
2S	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 7/8									10.0
2M	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 7/8									10.0
3																											
4																											
5																											

STANDARD SIGN
R11-3C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/28/16 PLATE NO. R11-3C.3

PROJECT NO:

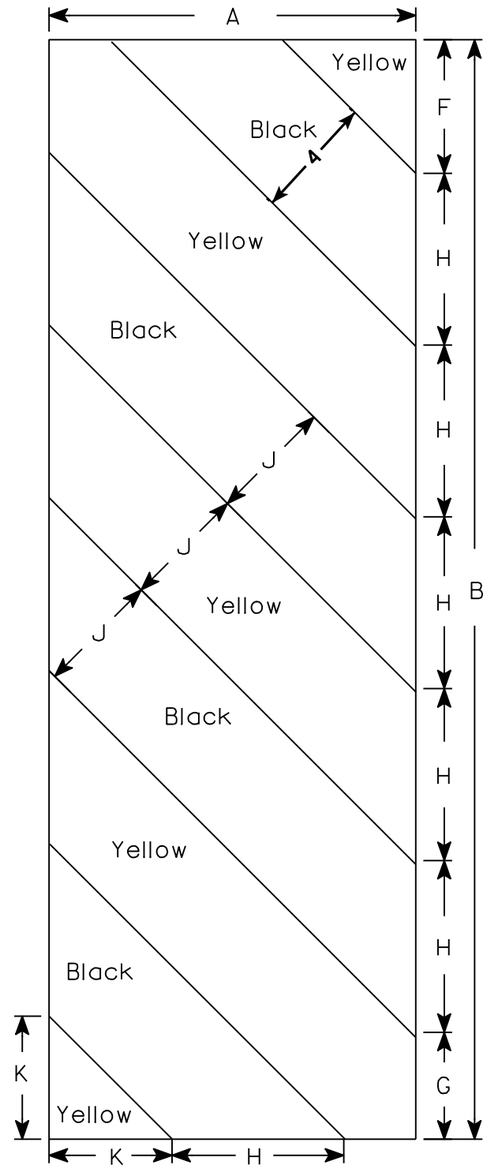
SHEET NO: 281 E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R113C.DGN PLOT DATE : 15-MAR-2017 15:33 PLOT BY : $$...plotuser...$$

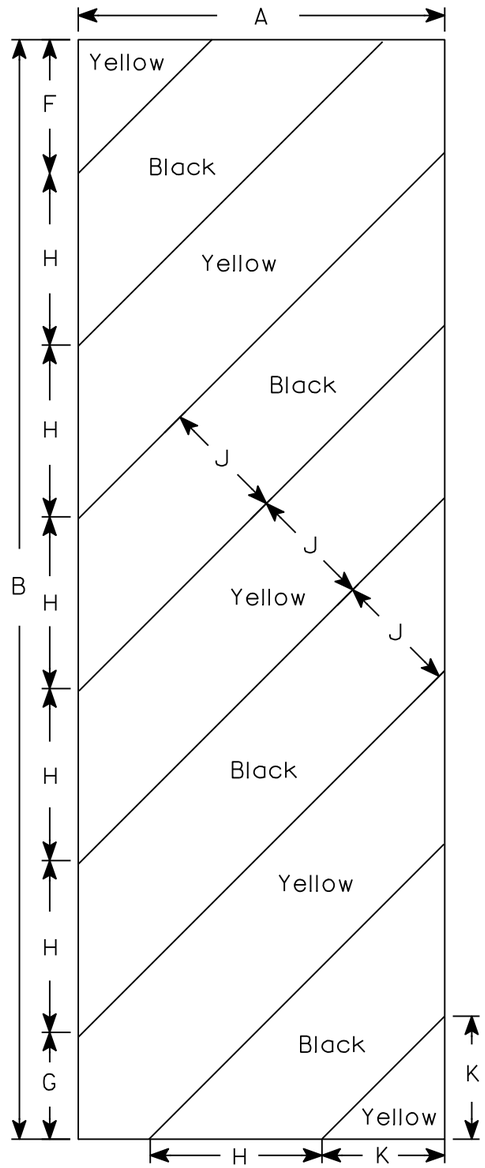
WISDOT/CADDS SHEET 42

7

7



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

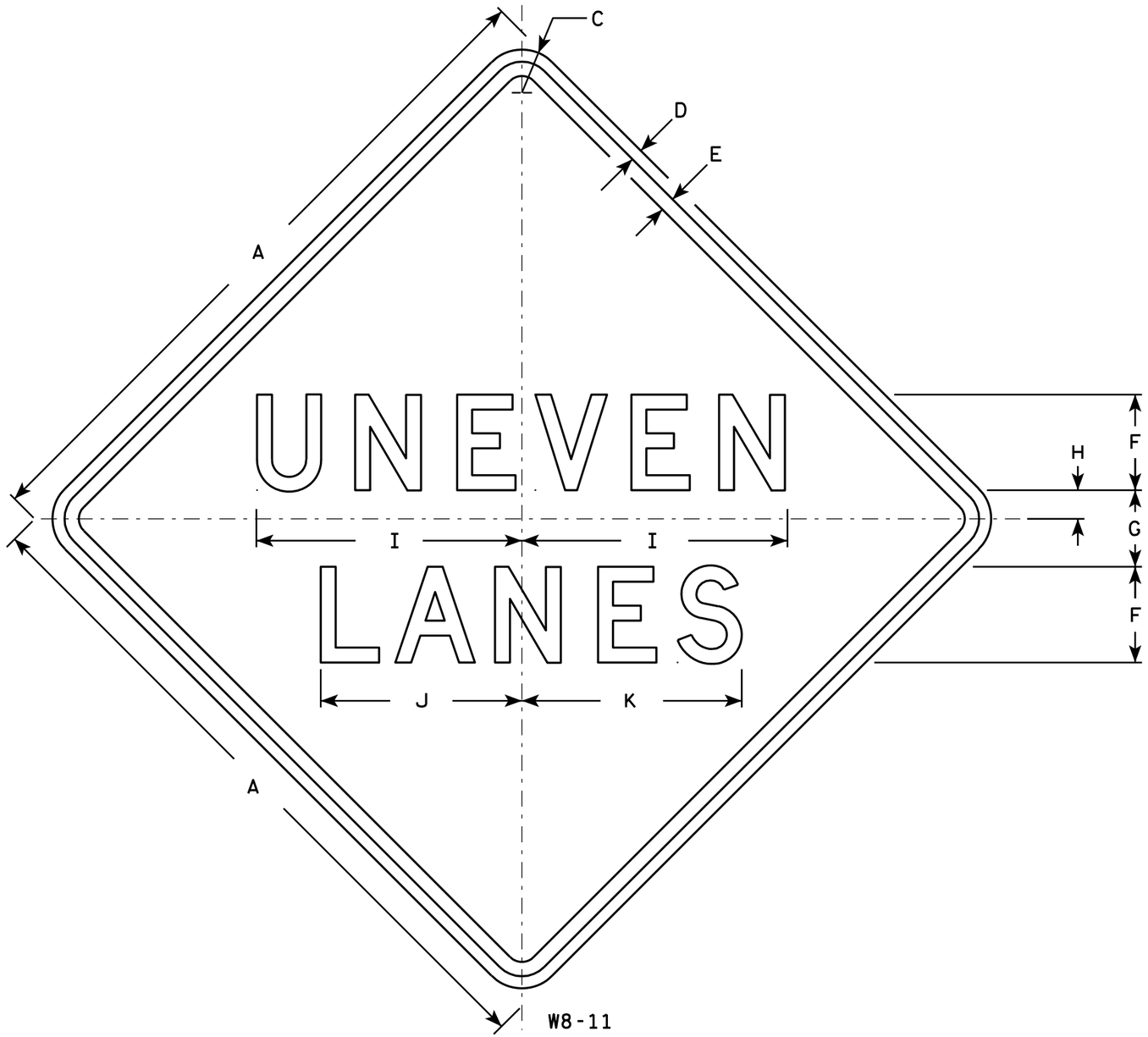
W5-52L & W5-52R

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: 282 | 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 - Orange
   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																											
2S	36		1 5/8	5/8	3/4	5	4	1 1/2	13 7/8	10 1/2	11 1/2																9.0
2M	36		1 5/8	5/8	3/4	5	4	1 1/2	13 7/8	10 1/2	11 1/2																9.0
3																											
4	36		1 5/8	5/8	3/4	5	4	1 1/2	13 7/8	10 1/2	11 1/2																9.0
5	48		2 1/4	3/4	1	7	5	2	18 1/2	14	15 3/8																16.0

STANDARD SIGN
W8-11

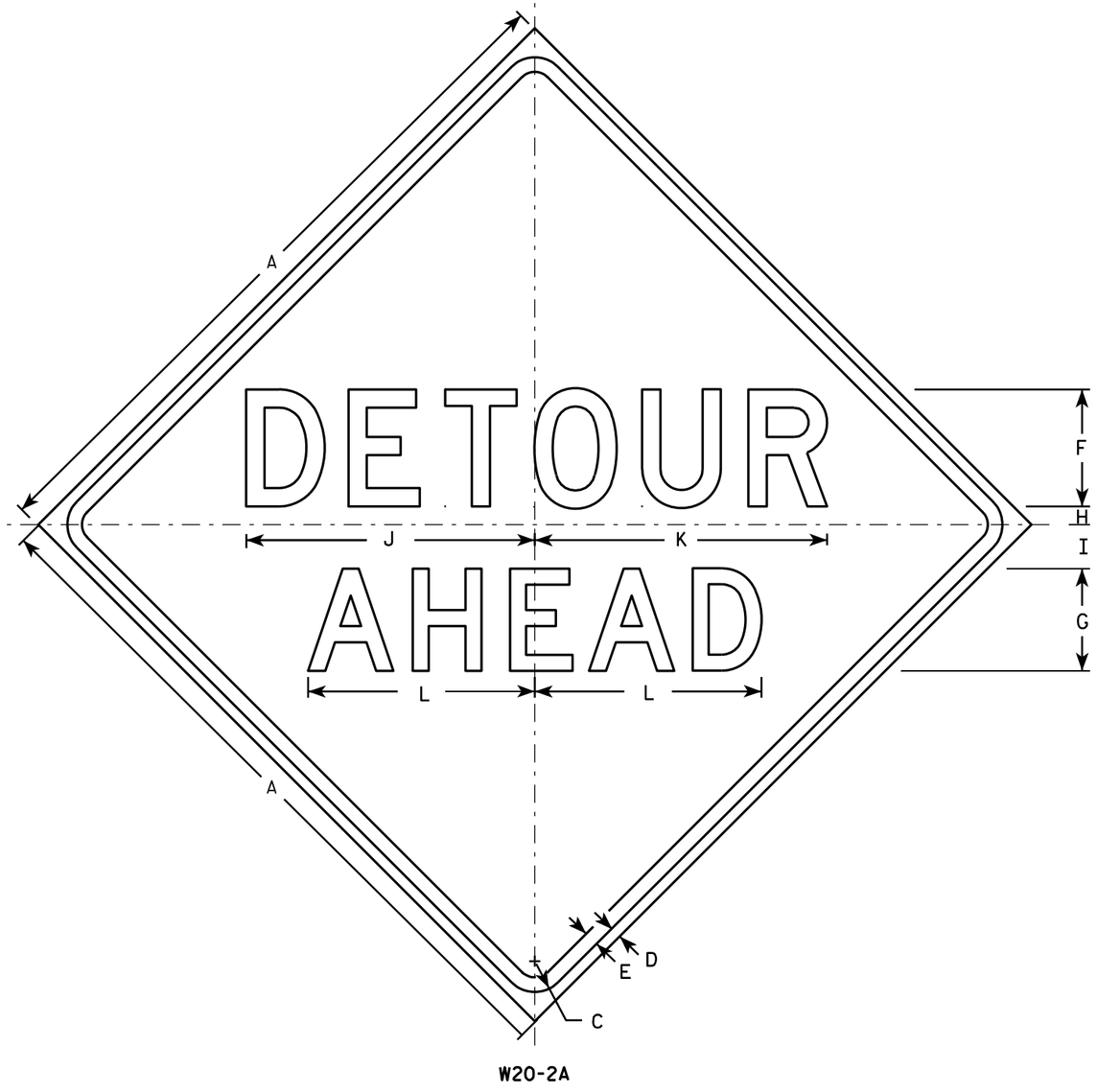
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

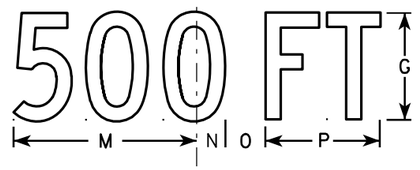
DATE 3/22/11 PLATE NO. W8-11.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 283 | E

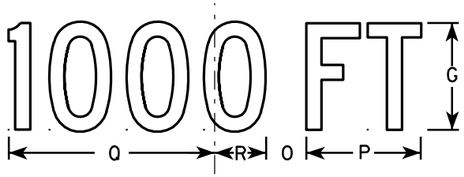
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W811.DGN PLOT DATE : 22-MAR-2011 14:12 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.703924:1.000000
WISDOT/CADDS SHEET 42



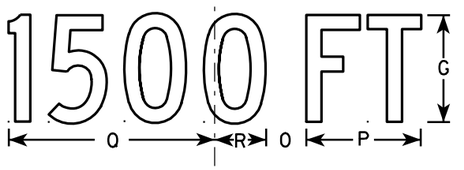
W20-2A



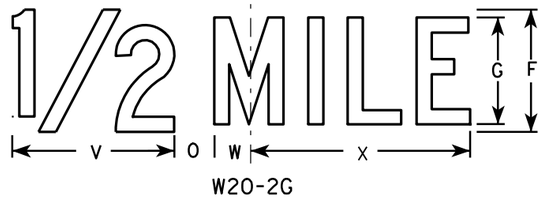
W20-2D



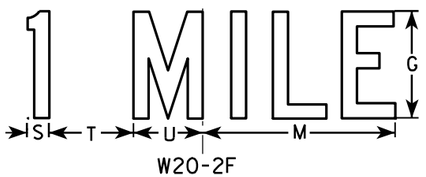
W20-2C



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

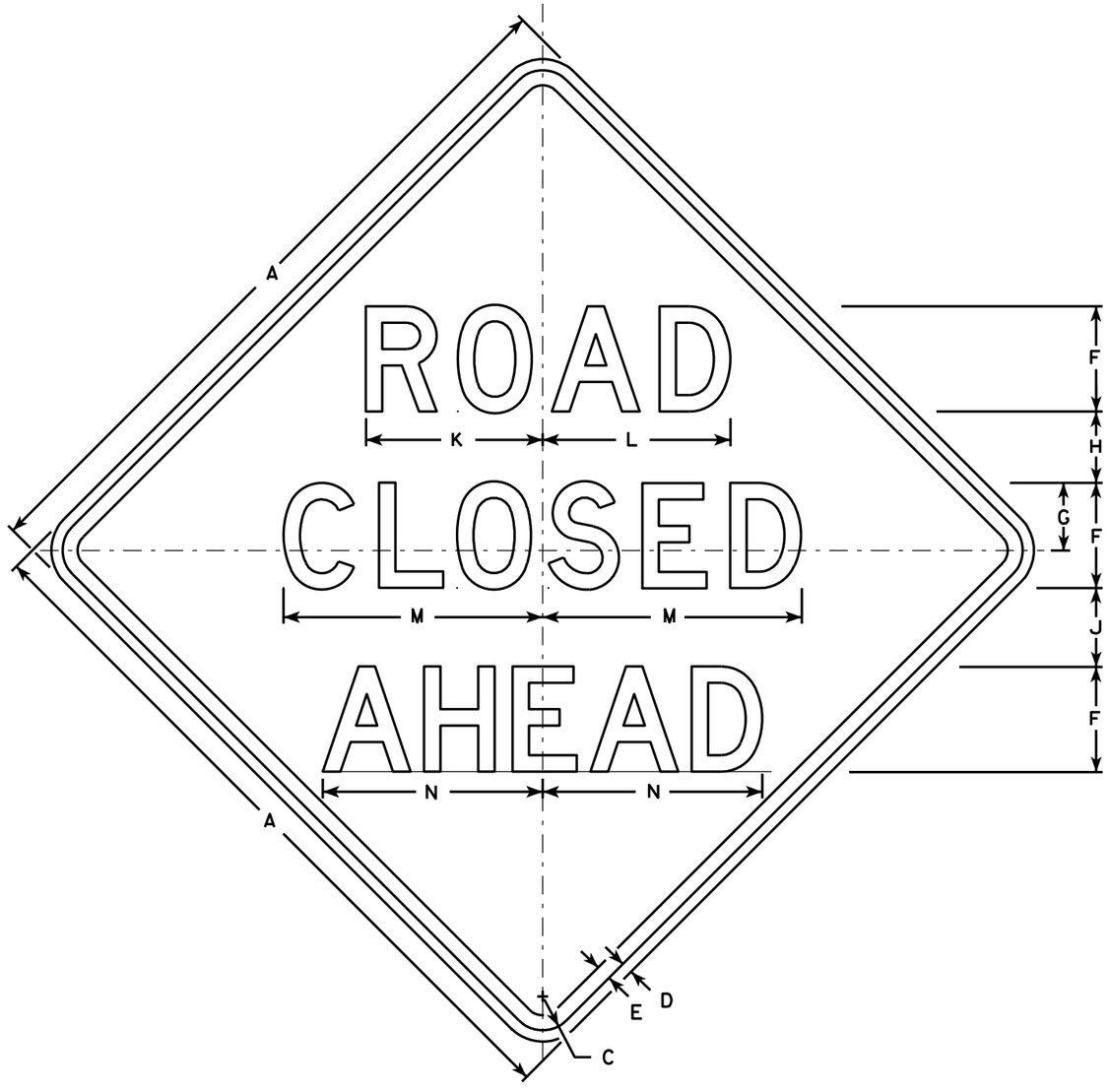
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

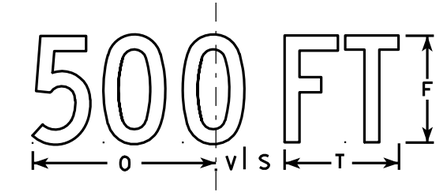
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

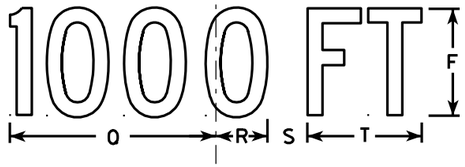
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 284	E



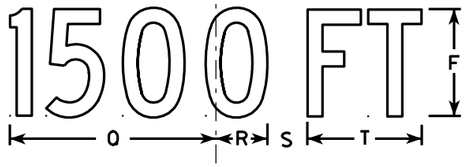
W20-3A



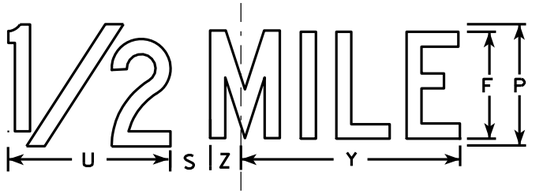
W20-3D



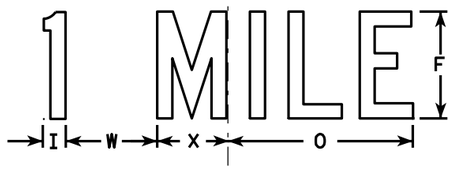
W20-3C



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.

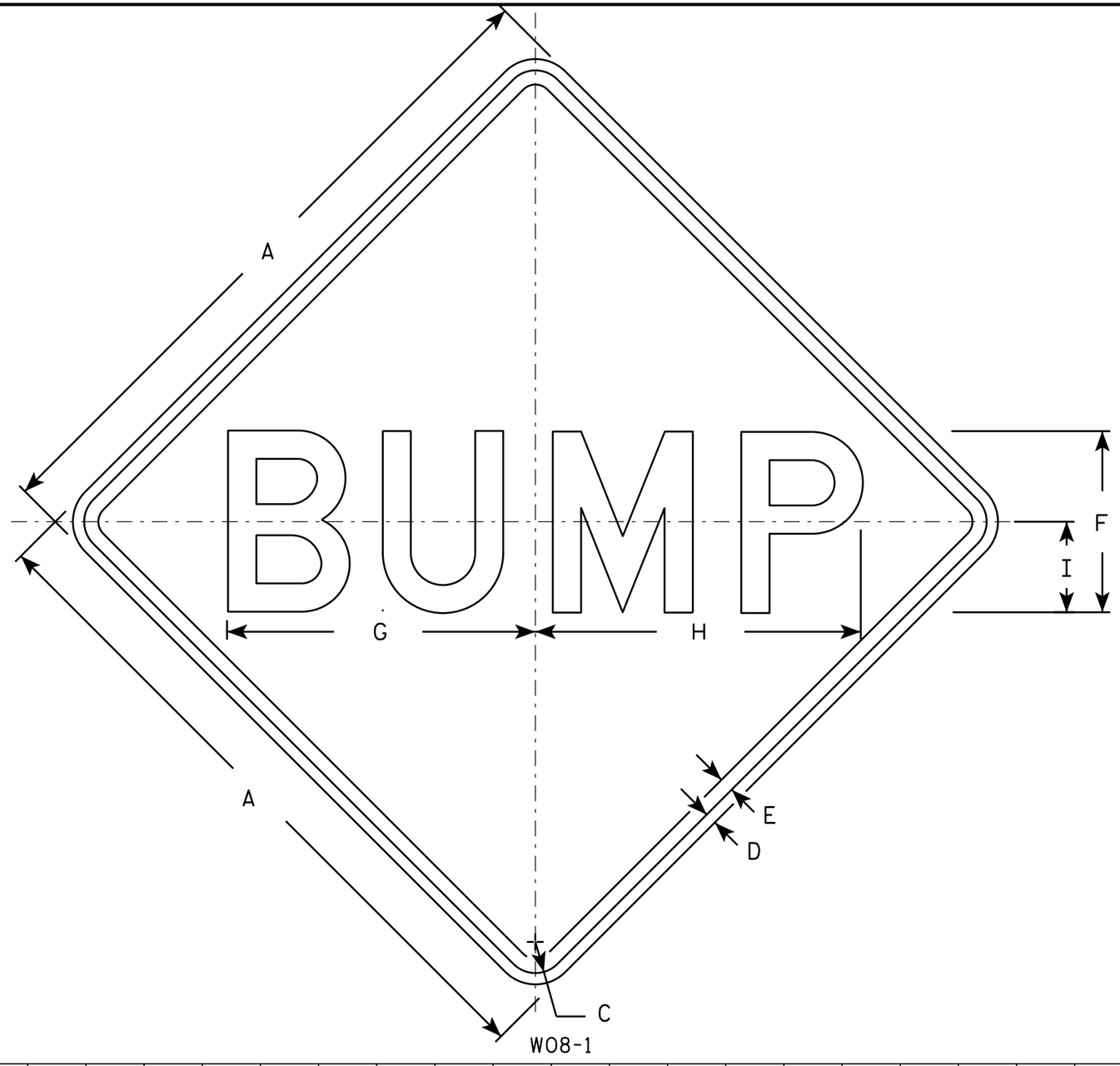
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	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: 285 | 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 - Orange
   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	36		1 5/8	5/8	3/4	10	16 7/8	17 7/8	5																		9.0
2S	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0
2M	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0
3	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0
4	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0
5	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0

STANDARD SIGN
W08-1

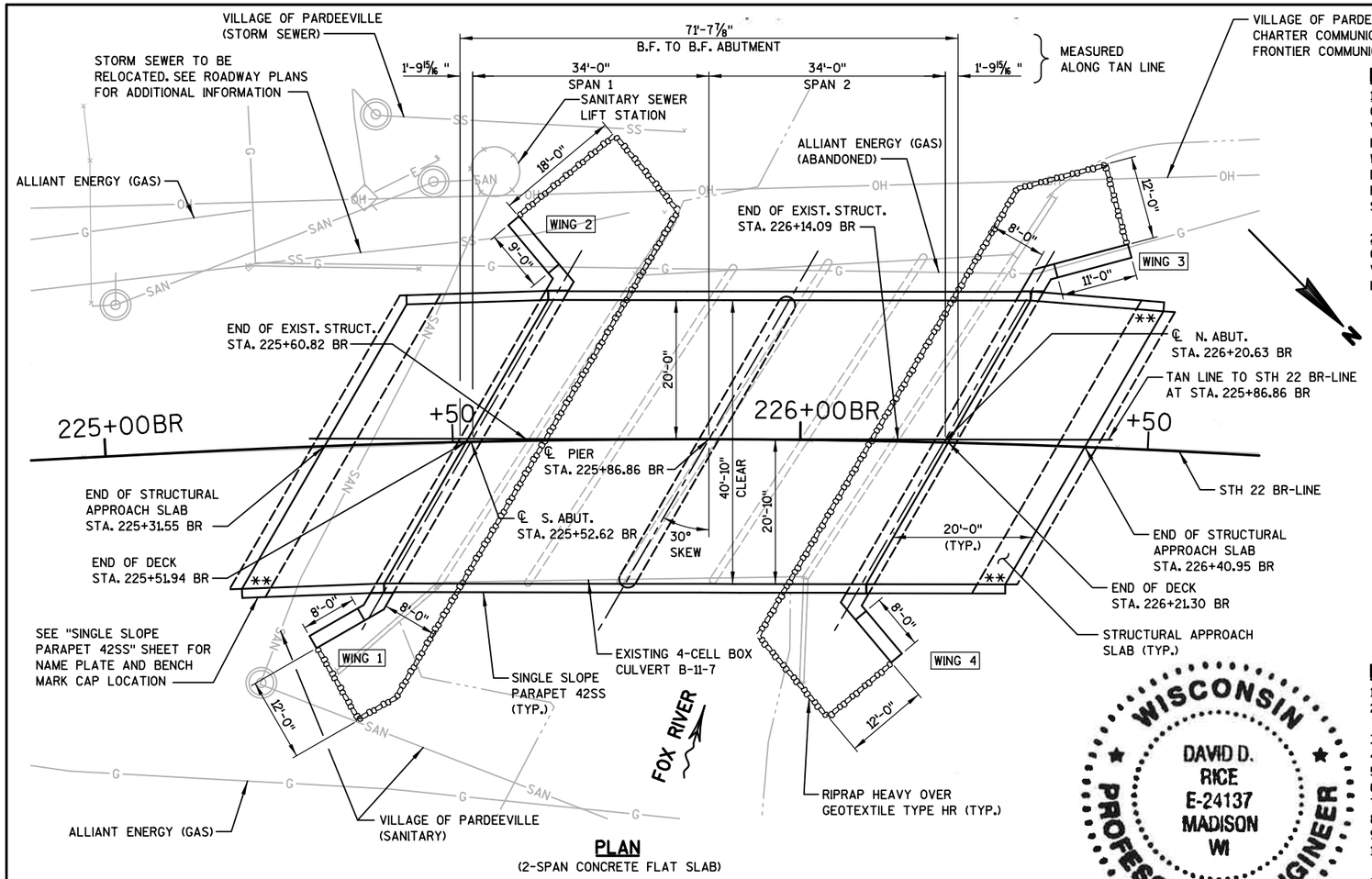
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

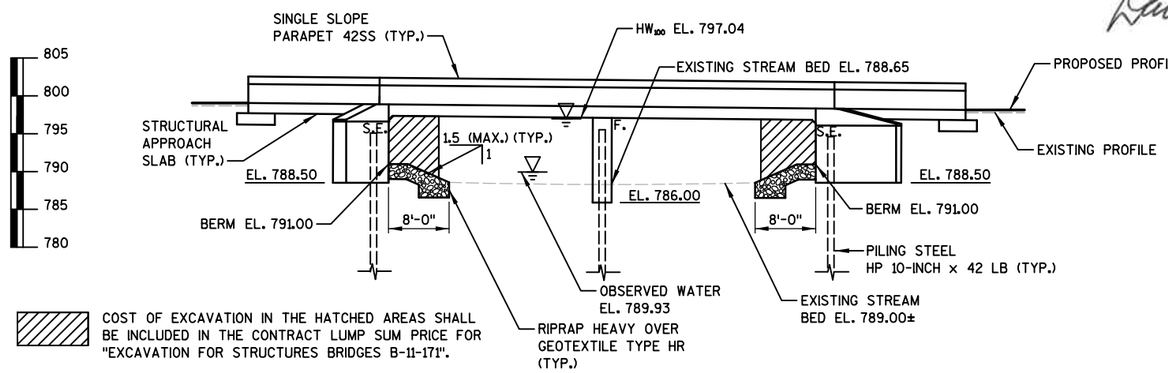
DATE 11/20/13 PLATE 1 W08-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W081.DGN PLOT DATE : 20-NOV-2013 12:24 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.688833:1.000000 WISDOT/CADDS SHEET 42



PLAN
(2-SPAN CONCRETE FLAT SLAB)



COST OF EXCAVATION IN THE HATCHED AREAS SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR "EXCAVATION FOR STRUCTURES BRIDGES B-11-171".

ELEVATION
(LOOKING WEST)

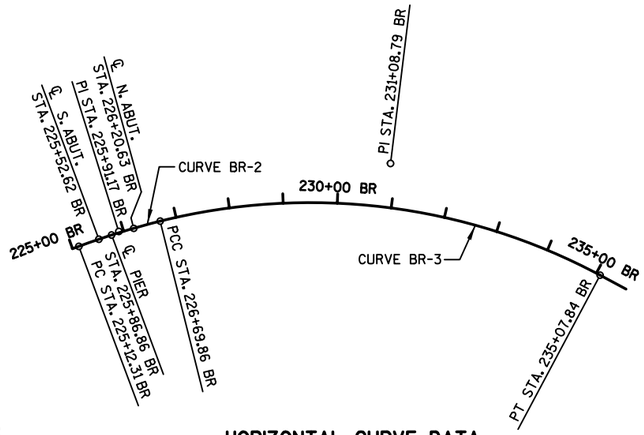
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
T113	Y: 396,519.14 X: 578,642.58	MAG. NAIL	797.13
T241	Y: 395,586.60 X: 579,397.33	MAG. NAIL	814.69

NOTE: BENCH MARKS ARE OUTSIDE OF PLAN EXTENTS. SEE ROADWAY PLANS FOR ADDITIONAL INFORMATION.

CURVE BR-2
P.I. = 225+91.17 BR
Y = 396,233.17
X = 578,829.55
Δ = 6°26'51" (RT)
D = 4°05'33"
T = 78.86'
L = 157.54'
R = 1,400.00'
P.C. = 225+12.31 BR
P.T. = 226+69.86 BR

CURVE BR-3
P.I. = 231+08.79 BR
Y = 396,617.49
X = 578,482.56
Δ = 42°06'59" (RT)
D = 5°01'33"
T = 438.94'
L = 837.98'
R = 1,140.00'
P.C.C. = 226+69.86 BR
P.T. = 235+07.84 BR



HORIZONTAL CURVE DATA

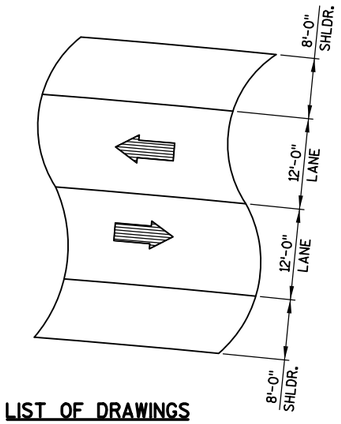
HYDRAULIC DATA

100 YEAR FREQUENCY

Q_{100}	1,700 C.F.S.
VEL.	4.2 F.P.S.
HW_{100}	EL. 797.04
WATERWAY AREA	409 SQ. FT.
DRAINAGE AREA	54.2 SQ. MI.
ROADWAY OVERTOPPING	N/A
SCOUR CRITICAL CODE	5

2 YEAR FREQUENCY

Q_2	950 C.F.S.
VEL.	2.74 F.P.S
HW_2	EL. 795.79



LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION, QUANTITIES, NOTES & DETAILS
3. SUBSURFACE EXPLORATION
4. SOUTH ABUTMENT
5. SOUTH ABUTMENT DETAILS
6. NORTH ABUTMENT
7. NORTH ABUTMENT DETAILS
8. ABUTMENT BILL OF BARS & DETAILS
9. PIER DETAILS
10. SUPERSTRUCTURE PLAN, SECTION, & DETAILS
11. SUPERSTRUCTURE CROSS SECTION & DETAILS
12. STRUCTURAL APPROACH SLAB - 1
13. STRUCTURAL APPROACH SLAB - 2
14. SINGLE SLOPE PARAPET 42SS

WISCONSIN
DAVID D. RICE
E-24137
MADISON
WI
PROFESSIONAL ENGINEER
5/31/2019

STATE PROJECT NUMBER
6050-00-71

DESIGN DATA
STRUCTURE DESIGNED FOR A FUTURE WEARING SURFACE OF 20 PSF

LIVE LOAD:

DESIGN LOADING	HL-93
INVENTORY RATING FACTOR	RF = 1.22
OPERATING RATING FACTOR	RF = 1.58
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV)	250 KIPS

MATERIAL PROPERTIES:

CONCRETE SUPERSTRUCTURE	f'c = 4,000 psi
CONCRETE SUBSTRUCTURE	f'c = 3,500 psi
HIGH STRENGTH BAR STEEL REINFORCEMENT	fy = 60,000 psi

TRAFFIC DATA
A.D.T. (2020): 4,000
A.D.T. (2040): 4,300
DESIGN SPEED: 40 MPH

FOUNDATION DATA
ABUTMENTS AND PIER TO BE SUPPORTED ON HP 10x42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.

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

ESTIMATED PILE LENGTHS:

SOUTH ABUTMENT	70 FEET EACH
PIER	70 FEET EACH
NORTH ABUTMENT	65 FEET EACH

LEGEND
B.F. = BACK FACE
F.F. = FRONT FACE
℄ = CENTERLINE
S.E. = SEMI-EXPANSION
F. = FIXED
** = PROVIDE FOR THRIE BEAM TRANSITION ATTACHMENT

STRUCTURE DESIGN CONTACTS
DESIGN CONSULTANT CONTACT:
DAVID WALKER (608) 251-4843

BUREAU OF STRUCTURES CONTACT:
WILLIAM DREHER (608) 266-8489

NO.	DATE	REVISION	BY

STRAND ASSOCIATES®
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608)-251-4843
(608) 251-8655 FAX
WWW.STRAND.COM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
ACCEPTED William C. Dreher SDR 08/05/19
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-11-171

STH 22 OVER FOX RIVER

COUNTY	COLUMBIA	~~TOWN/CITY~~/VILLAGE	PARDEEVILLE
DESIGN SPEC.	AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS		
DESIGNED BY	EJC	DESIGN CK'D.	DDR
DRAWN BY	DTH	PLANS CK'D.	DJW

GENERAL PLAN

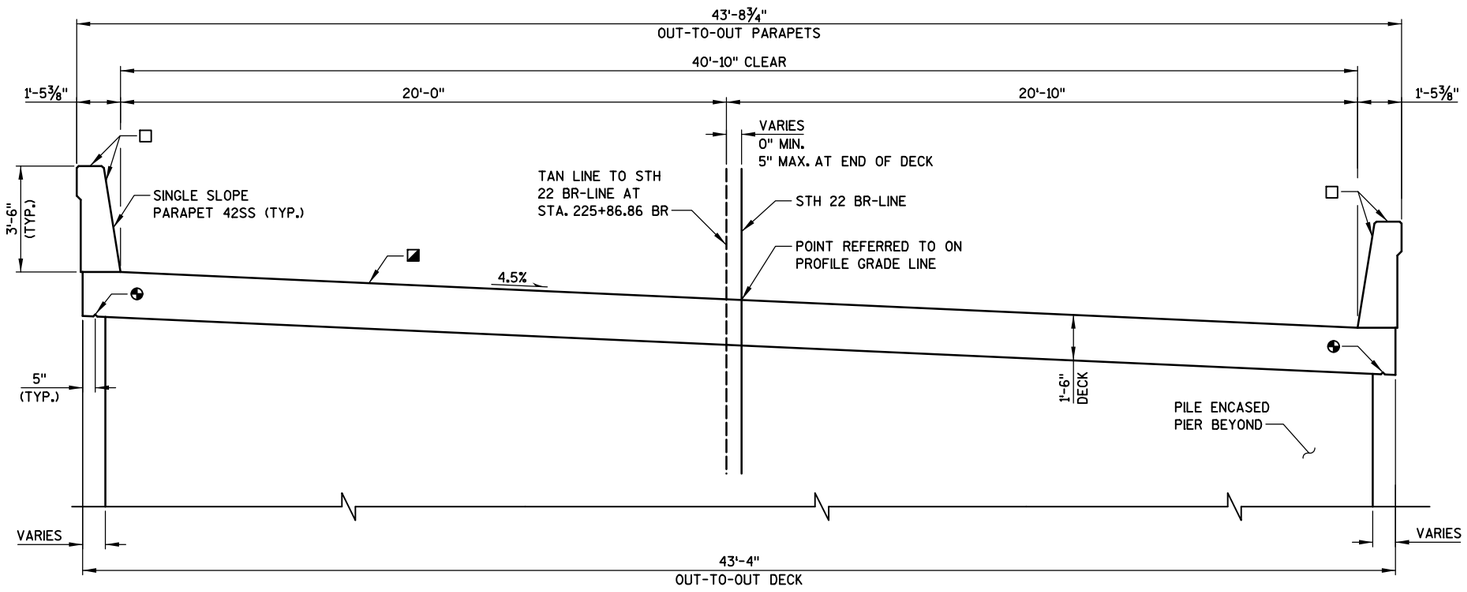
SHEET 1 OF 14
287

8

8

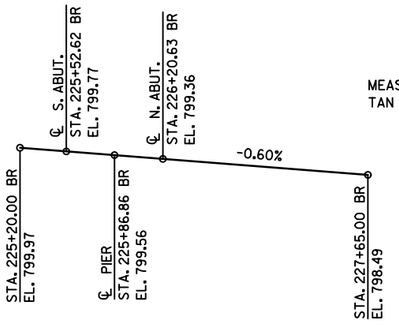
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STATE PROJECT NUMBER
6050-00-71

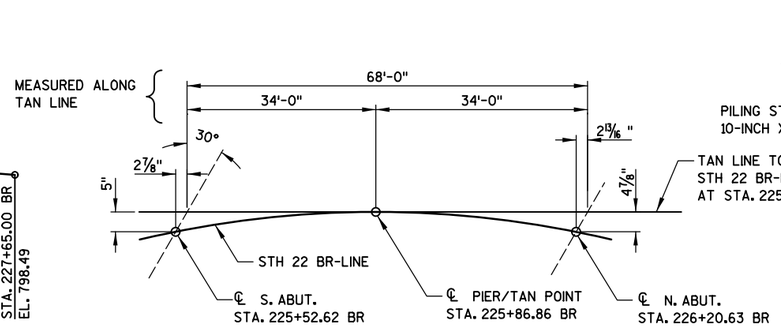


CROSS SECTION THRU SUPERSTRUCTURE

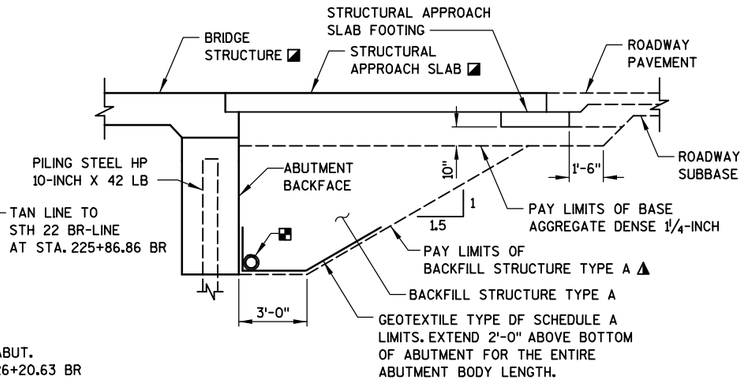
(LOOKING NORTH)



PROFILE GRADE LINE - STH 22



OFFSET SKETCH



TYPICAL SECTION THRU ABUTMENT

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SOUTH ABUT.	PIER	NORTH ABUT.	SUPERS.	APPROACH SLABS	TOTAL
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 225+60 BR	LS	---	---	---	---	---	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-11-171	LS	---	---	---	---	---	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	284	---	260	---	---	544
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	144	---	144	---	---	288
502.0100	CONCRETE MASONRY BRIDGES	CY	70	53	69	207	113	512
502.3200	PROTECTIVE SURFACE TREATMENT	SY	---	---	---	342	180	522
502.3210	PIGMENTED SURFACE SEALER	SY	---	---	---	108	---	108
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	4,170	2,360	4,150	---	---	10,680
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,650	100	1,740	39,130	19,780	62,400
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	---	---	---	---	400	400
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	10	---	10	---	---	20
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	690	630	640	---	---	1,960
606.0300	RIPRAP HEAVY	CY	91	---	86	---	---	177
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	90	---	90	---	---	180
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	---	---	---	3	---	3
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	64	---	66	---	---	130
645.0120	GEOTEXTILE TYPE HR	SY	165	---	159	---	---	324
	NON-BID ITEMS							
	FILLER	SIZE						1/2" & 3/4"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

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.

BAR DIMENSIONS FOR BENDING ARE OUT-TO-OUT OF BARS.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-11-171" SHALL BE THE EXISTING GROUND LINE.

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

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.

AT THE BACKFACE OF ABUTMENTS ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH "BACKFILL STRUCTURE TYPE A".

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. "GEOTEXTILE TYPE DF SHEDULE A" SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

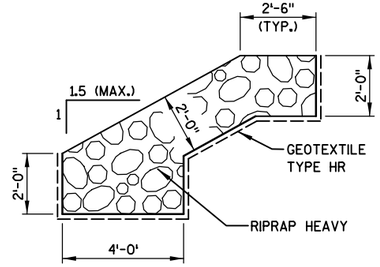
THE EXISTING STRUCTURE B-11-7, A 4-CELL CONCRETE BOX CULVERT, IS TO BE REMOVED.

FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M153 TYPES I, II, III OR AASHTO DESIGNATION M213.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

LEGEND

- ¾" V-GROOVE REQ'D. EXTEND TO 6" FROM F.F. OF ABUTMENT DIAPHRAGMS.
- ◪ COAT WITH PROTECTIVE SURFACE TREATMENT AS PER THE STANDARD SPECIFICATIONS.
- ▲ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- ◪ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL ON "SOUTH ABUTMENT" SHEET.
- □ COAT WITH PIGMENTED SURFACE SEALER AS PER THE STANDARD SPECIFICATIONS.



RIPRAP HEAVY DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-11-171

DRAWN BY DTH | PLANS CK'D. DJW

CROSS SECTION, QUANTITIES, NOTES & DETAILS

SHEET 2 OF 14
288

8

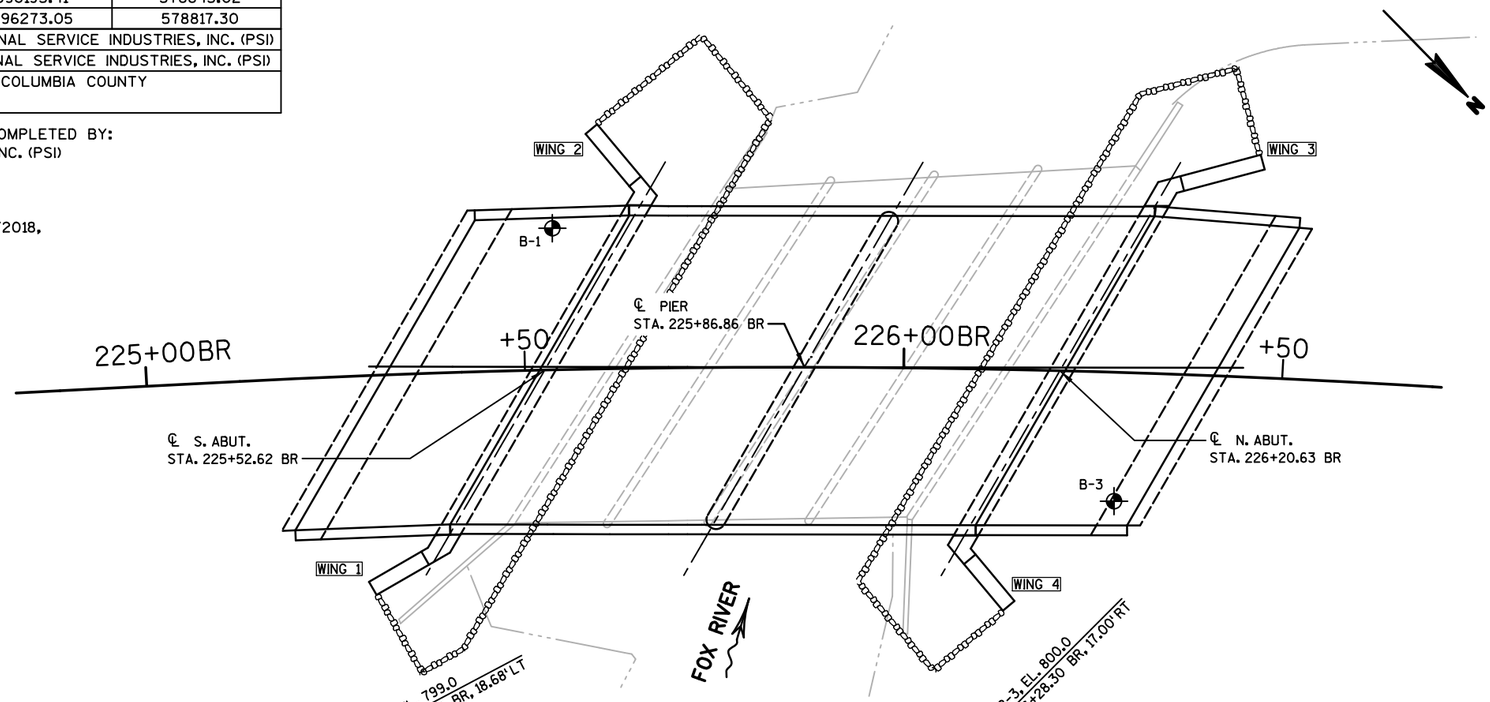
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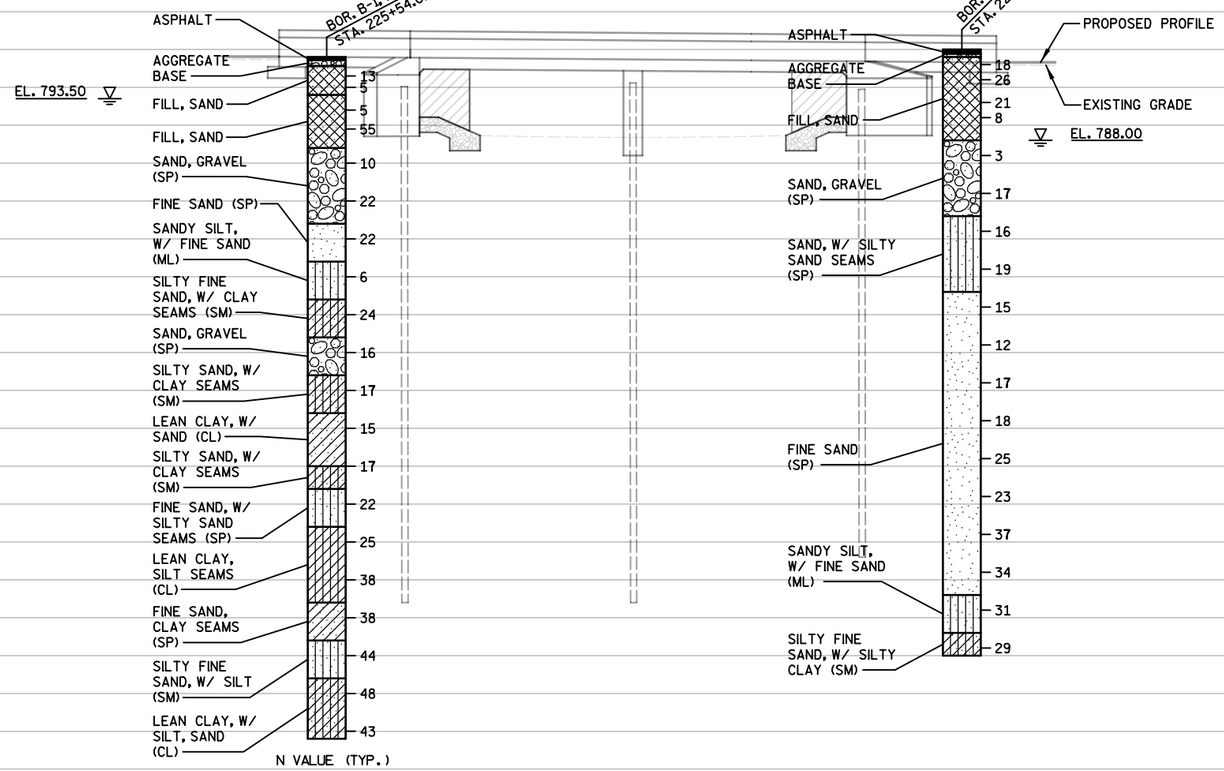
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BORING	DATE COMPLETED	NORTHING (Y)	EASTING (X)
B-1	12/11/2017	396195.41	578845.02
B-3	12/12/2017	396273.05	578817.30
BORINGS COMPLETED BY: PROFESSIONAL SERVICE INDUSTRIES, INC. (PSI)			
REPORT COMPLETED BY: PROFESSIONAL SERVICE INDUSTRIES, INC. (PSI)			
ALL COORDINATES REFERENCED TO COLUMBIA COUNTY COORDINATE SYSTEM			

BORINGS PERFORMED AND REPORT COMPLETED BY:
PROFESSIONAL SERVICE INDUSTRIES, INC. (PSI)
821 CORPORATE COURT
WAUKESHA, WI 53189

BORINGS WERE PERFORMED ON 12/11/2018,
AND 12/12/2018.





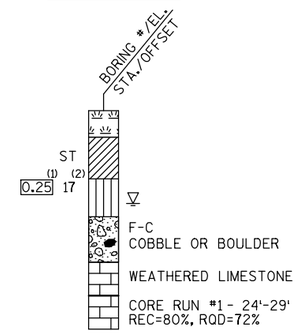
STATE PROJECT NUMBER

6050-00-71

MATERIAL SYMBOLS

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

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▼ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-11-171

DRAWN BY DTH | PLANS CK'D. DJW

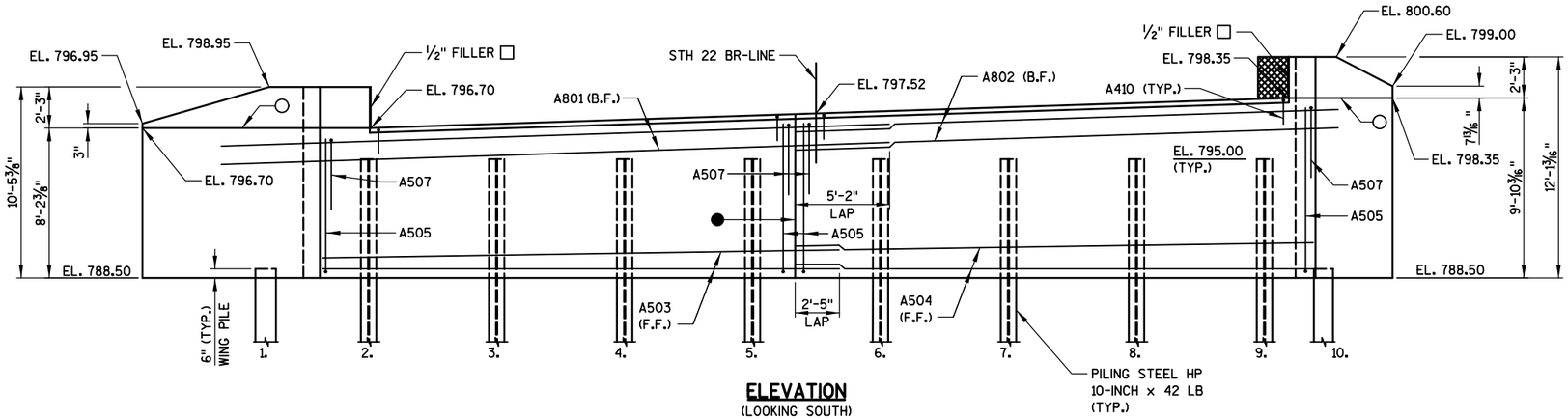
SUBSURFACE EXPLORATION

SHEET 3 OF 14
289

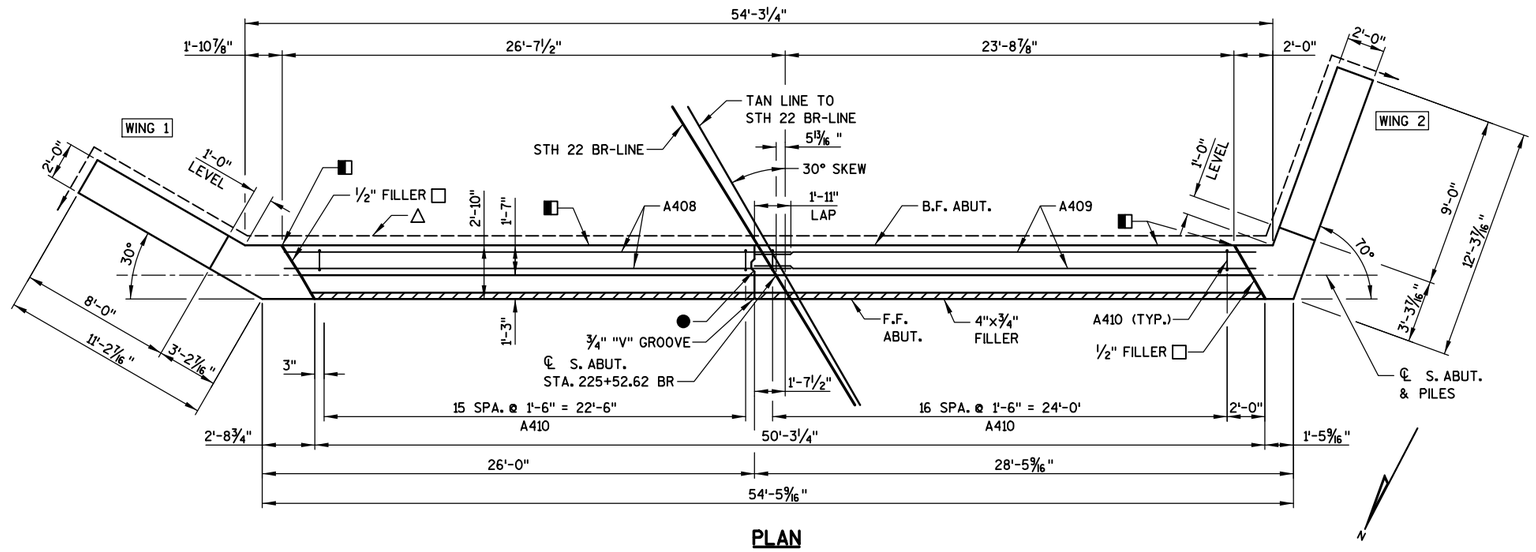
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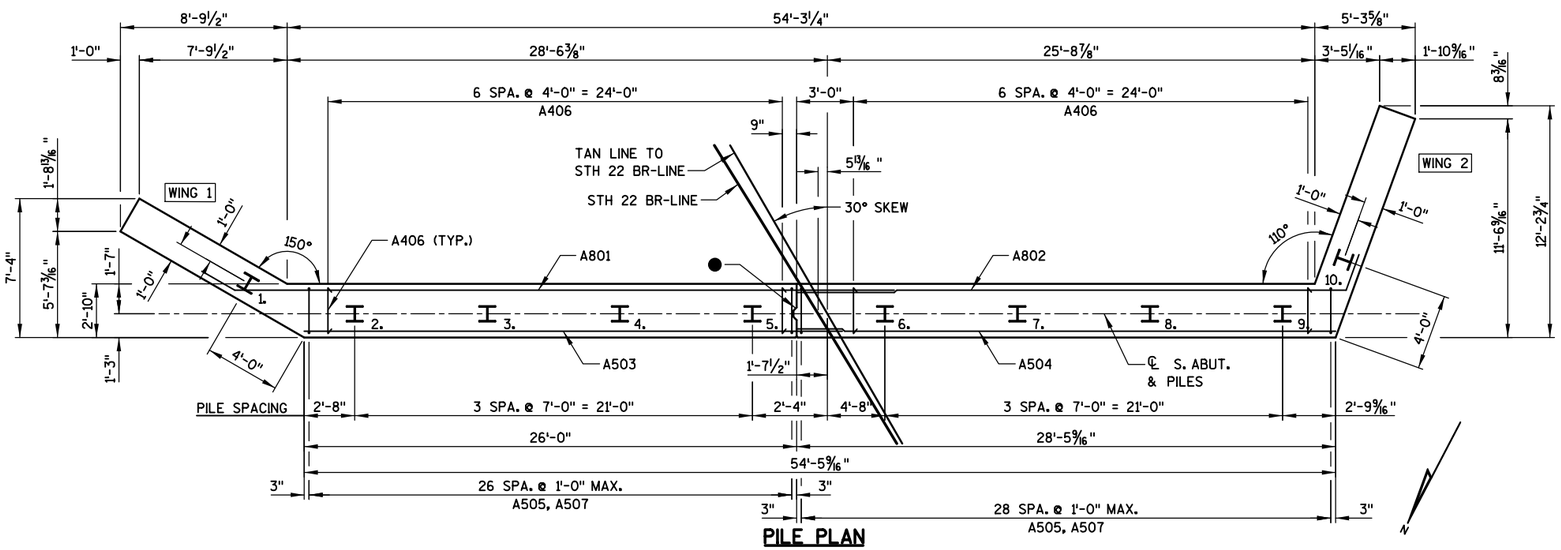
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ELEVATION
(LOOKING SOUTH)



PLAN



PILE PLAN

STATE PROJECT NUMBER

6050-00-71

GENERAL NOTES

SEE "ABUTMENT BILL OF BARS & DETAILS" SHEET FOR PILE SPLICE DETAILS.

SEE "ABUTMENT BILL OF BARS & DETAILS" SHEET FOR REINFORCING DETAILS.

SOUTH ABUTMENT TO BE SUPPORTED ON HP10x42 STEEL PILING WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 70 FEET LONG EACH.

DO NOT PLACE FILL ABOVE 3'-0" FROM BOTTOM OF ABUTMENT UNTIL SUPERSTRUCTURE IS IN PLACE.

SHIFT REINFORCING AS NECESSARY TO AVOID PILING.

LEGEND

△ PIPE UNDERDRAIN (WRAPPED) 6-INCH, SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL ON THIS SHEET.

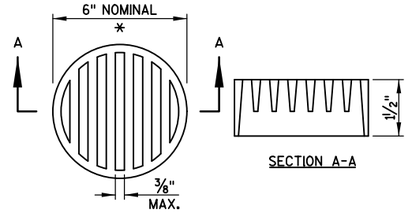
□ SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

◧ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZ. AND VERT. JOINTS ON BACK FACE.

● VERT. CONST. JOINT KEYWAY FORMED BY BEVELED 2"x8". BEVEL EXPOSED EDGES ¾" AND SEAL JOINT. SEE "ABUTMENT BILL OF BARS & DETAILS" SHEET FOR ALTERNATE CONSTRUCTION JOINT DETAIL.

○ OPTIONAL KEYED CONST. JOINT FORMED BY BEVELED 2"x6".

◥ ¾" 'V' GROOVE ON FRONT FACE OF WINGWALL. REQUIRED ONLY WHEN OPTIONAL CONSTRUCTION JOINT IS USED.



NOTES:

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

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

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

RODENT SHIELD DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-11-171

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SOUTH ABUTMENT

SHEET 4 OF 14
290

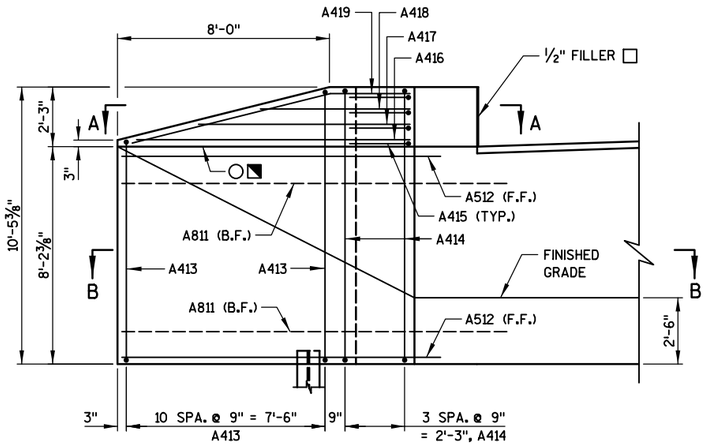
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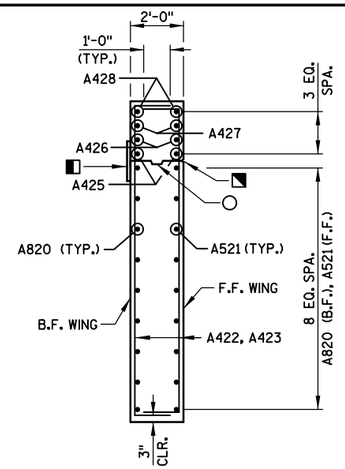
STATE PROJECT NUMBER

6050-00-71

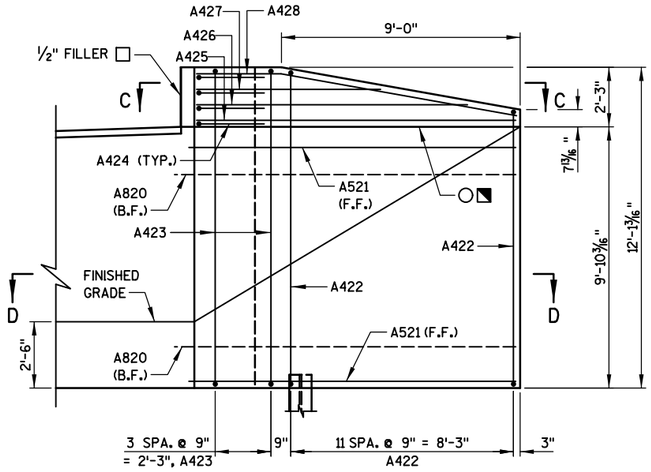


ELEVATION - WING 1

(LOOKING AT F.F. WING)



SECTION THRU WING 2



ELEVATION - WING 2

(LOOKING AT F.F. WING)

LEGEND

△ PIPE UNDERDRAIN (WRAPPED) 6-INCH, SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL ON "SOUTH ABUTMENT" SHEET.

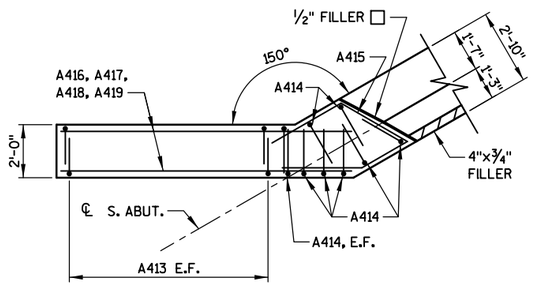
□ SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

◧ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZ. AND VERT. JOINTS ON BACK FACE.

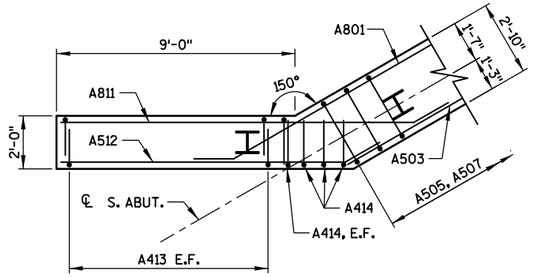
○ OPTIONAL KEYED CONST. JOINT FORMED BY BEVELED 2"x6".

◥ ¾" 'V' GROOVE ON FRONT FACE OF WINGWALL. REQUIRED ONLY WHEN OPTIONAL CONSTRUCTION JOINT IS USED.

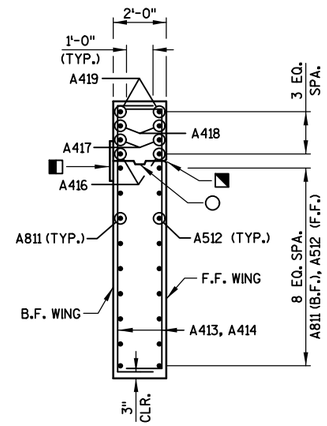
◪ STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING SUPERSTRUCTURE. TOTAL THICKNESS OF ALL SHEETS SHALL BE AT LEAST 0.03".



SECTION A-A

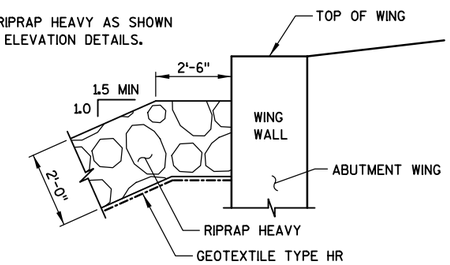


SECTION B-B

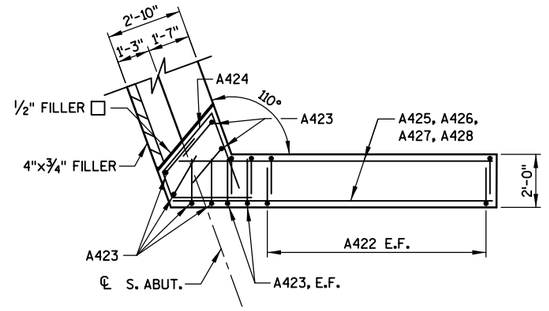


SECTION THRU WING 1

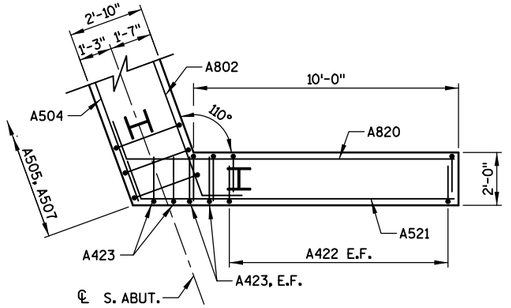
NOTE:
PLACE RIPRAP HEAVY AS SHOWN IN WING ELEVATION DETAILS.



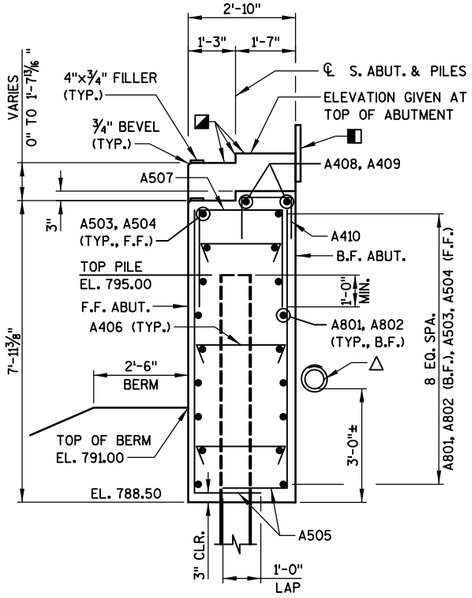
TYPICAL FILL SECTION AT WING



SECTION C-C



SECTION D-D



SECTION THRU ABUTMENT BODY

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-11-171

DRAWN BY DTH | PLANS CK'D. DJW

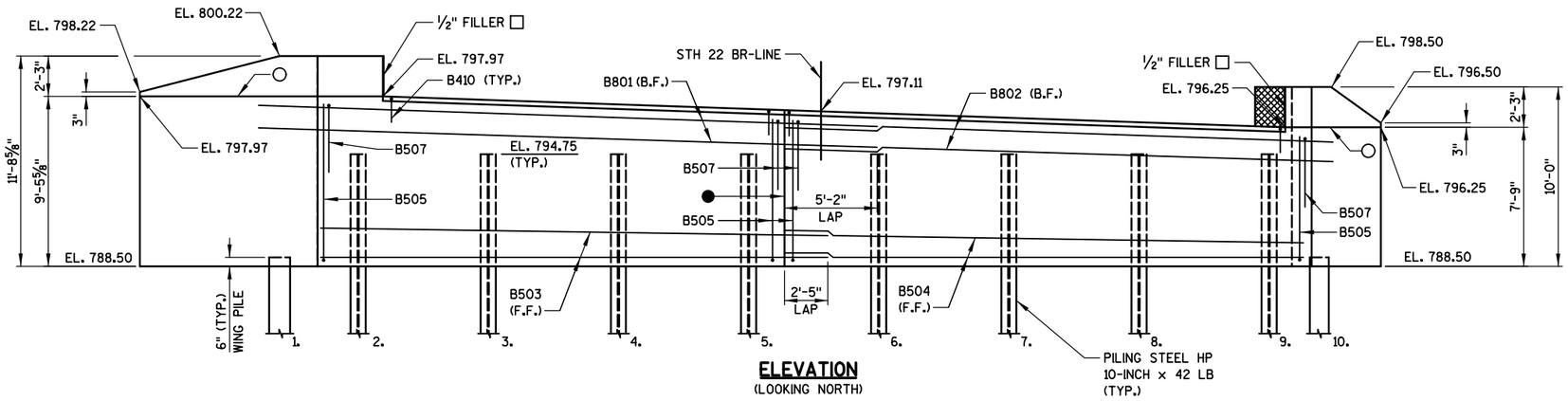
SOUTH ABUTMENT DETAILS

SHEET 5 OF 14
291

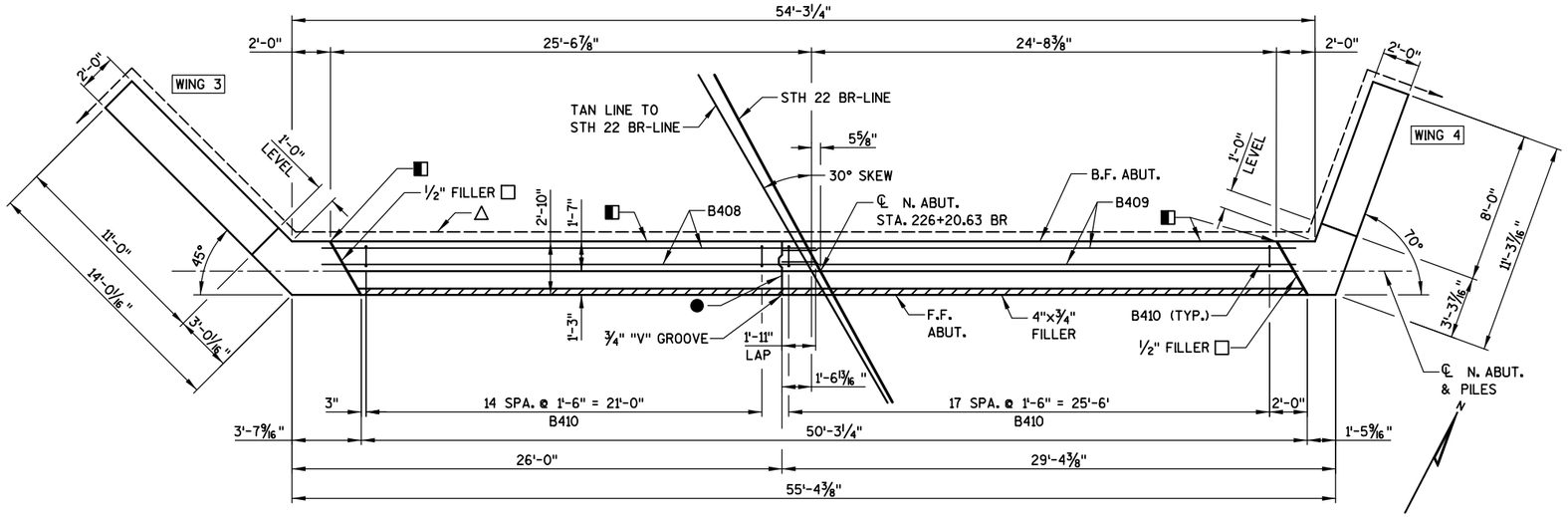
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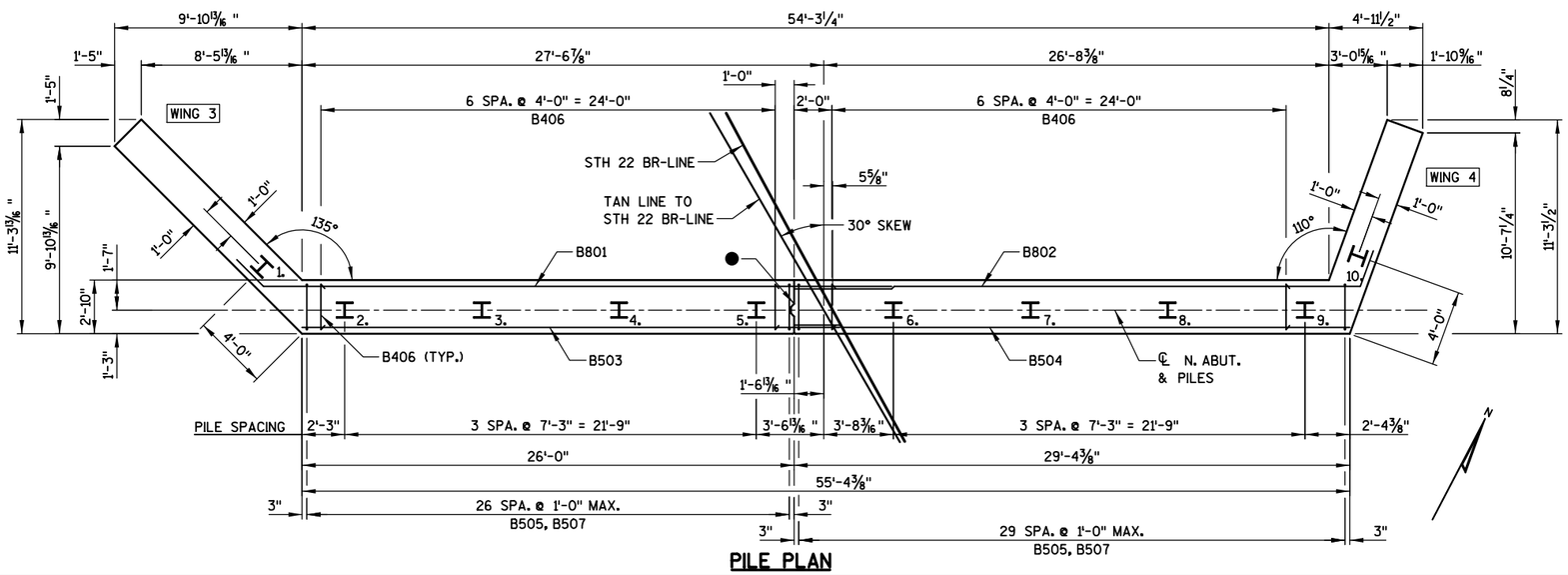
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ELEVATION
(LOOKING NORTH)



PLAN



PILE PLAN

STATE PROJECT NUMBER

6050-00-71

GENERAL NOTES

SEE "ABUTMENT BILL OF BARS & DETAILS" SHEET FOR PILE SPLICE DETAILS.

SEE "ABUTMENT BILL OF BARS & DETAILS" SHEET FOR REINFORCING DETAILS.

NORTH ABUTMENT TO BE SUPPORTED ON HP 10x42 STEEL PILING WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 65 FEET LONG EACH.

DO NOT PLACE FILL ABOVE 3'-0" FROM BOTTOM OF ABUTMENT UNTIL SUPERSTRUCTURE IS IN PLACE.

SHIFT REINFORCING AS NECESSARY TO AVOID PILING.

LEGEND

△ PIPE UNDERDRAIN (WRAPPED) 6-INCH, SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL ON "SOUTH ABUTMENT" SHEET.

□ SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

◧ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZ. AND VERT. JOINTS ON BACK FACE.

● VERT. CONST. JOINT KEYWAY FORMED BY BEVELED 2"x8". BEVEL EXPOSED EDGES ¾" AND SEAL JOINT. SEE "ABUTMENT BILL OF BARS & DETAILS" SHEET FOR ALTERNATE CONSTRUCTION JOINT DETAIL.

○ OPTIONAL KEYED CONST. JOINT FORMED BY BEVELED 2"x6".

◥ ¾" 'V' GROOVE ON FRONT FACE OF WINGWALL. REQUIRED ONLY WHEN OPTIONAL CONSTRUCTION JOINT IS USED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-11-171

DRAWN BY DTH | PLANS CK'D. DJW

NORTH ABUTMENT

SHEET 6 OF 14
292

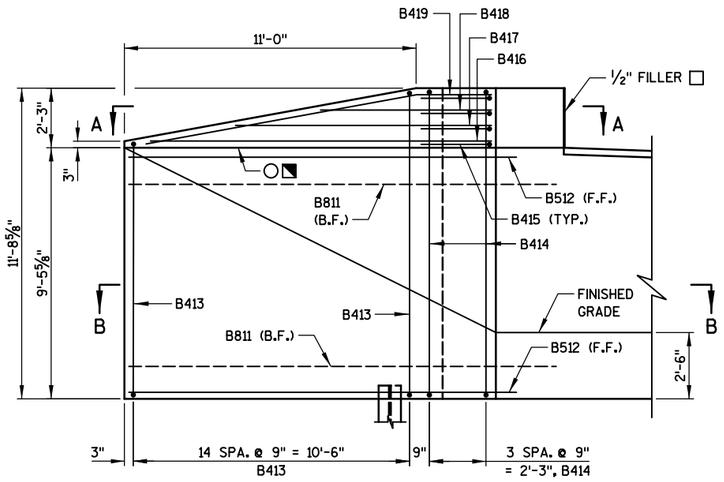
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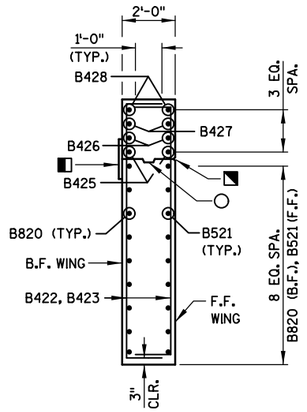
STATE PROJECT NUMBER

6050-00-71

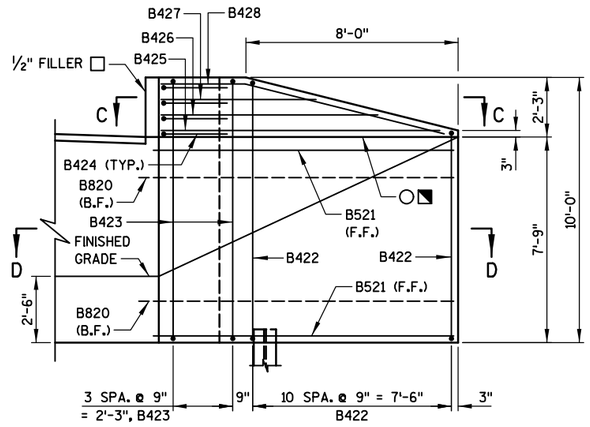


ELEVATION - WING 3

(LOOKING AT F.F. WING)



SECTION THRU WING 4



ELEVATION - WING 4

(LOOKING AT F.F. WING)

LEGEND

△ PIPE UNDERDRAIN (WRAPPED) 6-INCH, SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL ON "SOUTH ABUTMENT" SHEET.

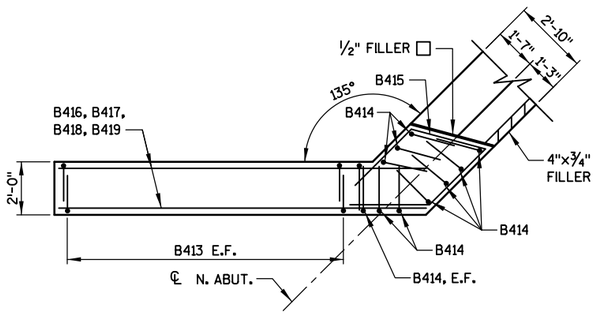
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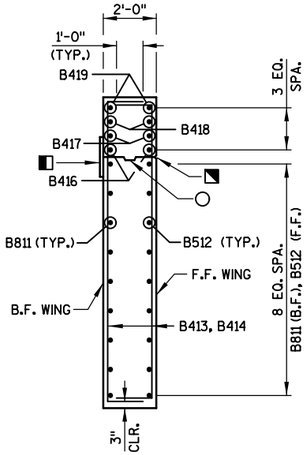
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◥ ¾" 'V' GROOVE ON FRONT FACE OF WINGWALL. REQUIRED ONLY WHEN OPTIONAL CONSTRUCTION JOINT IS USED.

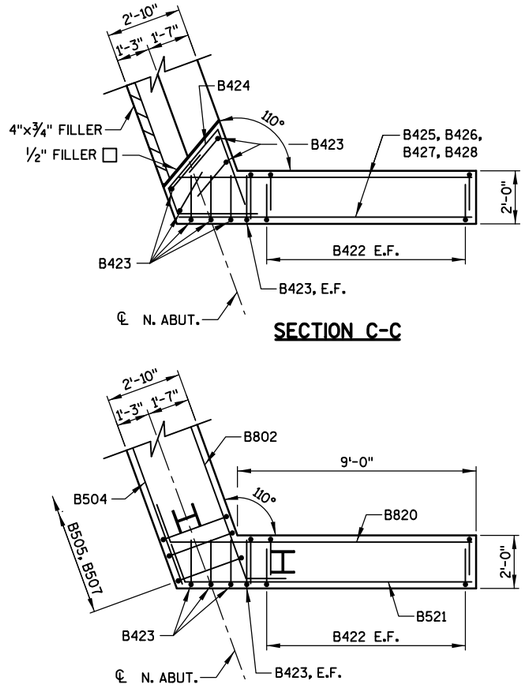
◪ STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING SUPERSTRUCTURE. TOTAL THICKNESS OF ALL SHEETS SHALL BE AT LEAST 0.03".



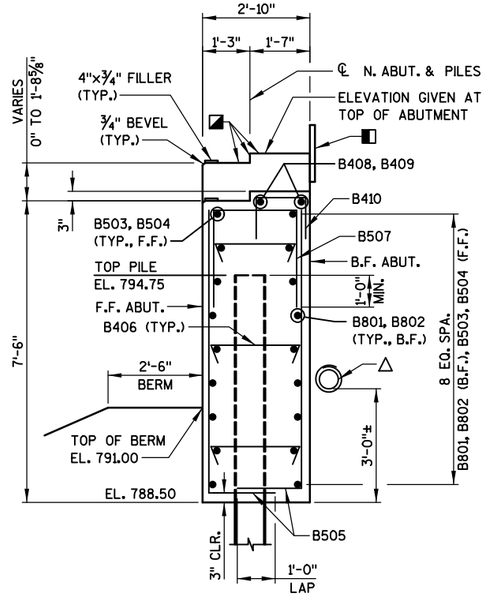
SECTION A-A



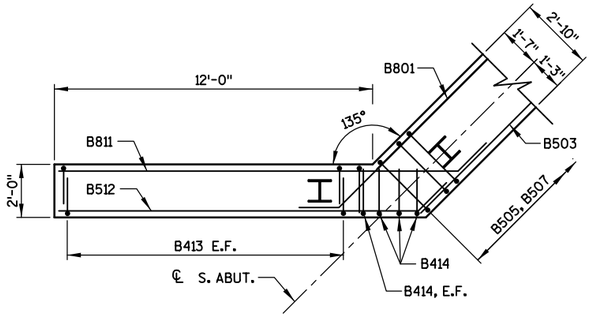
SECTION THRU WING 3



SECTION C-C



SECTION THRU ABUTMENT BODY



SECTION B-B

SECTION D-D

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-11-171

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NORTH ABUTMENT DETAILS

SHEET 7 OF 14
293

FILE NAME : S:\MAD\1000--1099\1089\863\Drawings\CAD\Plan\080107_na.dgn

SOUTH ABUTMENT
BILL OF BARS

UNCOATED: 4,170 LBS
COATED: 1,650 LBS

	BAR MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
	A801	9	36'-10"	X		ABUTMENT BODY - B.F. - HORIZ.
	A802	9	30'-8"	X		ABUTMENT BODY - B.F. - HORIZ.
	A503	9	28'-6"			ABUTMENT BODY - F.F. - HORIZ.
	A504	9	28'-4"			ABUTMENT BODY - F.F. - HORIZ.
‡	A505	112	10'-0"	X		ABUTMENT BODY - F.F. & B.F. - VERT.
	A406	42	3'-1"	X		ABUTMENT BODY - TIES - HORIZ.
	A507	56	10'-3"	X		ABUTMENT BODY - TOP - VERT.
	A408	2	27'-0"			ABUTMENT BODY - TOP - HORIZ.
	A409	2	27'-0"			ABUTMENT BODY - TOP - HORIZ.
	A410	33	3'-11"	X		ABUTMENT BODY - TOP - VERT.
	A811	9	14'-10"	X	X	WING 1 - B.F. - HORIZ.
	A512	9	12'-3"	X	X	WING 1 - F.F. - HORIZ.
‡	A413	22	11'-6"	X	X	WING 1 - F.F. & B.F. - VERT.
	A414	9	13'-2"	X	X	WING 1 - F.F. & B.F. - VERT.
	A415	4	10'-8"	X	X	WING 1 - HORIZ.
	A416	2	11'-0"		X	WING 1 - HORIZ.
	A417	2	8'-4"		X	WING 1 - HORIZ.
	A418	2	5'-8"		X	WING 1 - HORIZ.
	A419	2	10'-8"	X	X	WING 1 - HORIZ.
	A820	9	14'-0"	X	X	WING 2 - B.F. - HORIZ.
	A521	9	13'-5"	X	X	WING 2 - F.F. - HORIZ.
‡	A422	24	13'-4"	X	X	WING 2 - F.F. & B.F. - VERT.
	A423	10	14'-10"	X	X	WING 2 - F.F. & B.F. - VERT.
	A424	4	9'-9"	X	X	WING 2 - HORIZ.
	A425	2	12'-0"		X	WING 2 - HORIZ.
	A426	2	10'-2"		X	WING 2 - HORIZ.
	A427	2	6'-11"		X	WING 2 - HORIZ.
	A428	2	12'-2"	X	X	WING 2 - HORIZ.

BAR SERIES

BAR MARK	NO. REQ'D	LENGTH
A505	2 SERIES OF 56	9'-2" TO 10'-10"
A413	2 SERIES OF 11	10'-6" TO 12'-6"
A422	2 SERIES OF 12	12'-7" TO 14'-1"

BUNDLE AND TAG EACH SERIES SEPARATELY

NORTH ABUTMENT
BILL OF BARS

UNCOATED: 4,150 LBS
COATED: 1,740 LBS

	BAR MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
	B801	9	35'-1"	X		ABUTMENT BODY - B.F. - HORIZ.
	B802	9	31'-7"	X		ABUTMENT BODY - B.F. - HORIZ.
	B503	9	28'-6"			ABUTMENT BODY - F.F. - HORIZ.
	B504	9	29'-3"			ABUTMENT BODY - F.F. - HORIZ.
‡	B505	114	9'-8"	X		ABUTMENT BODY - F.F. & B.F. - VERT.
	B406	42	3'-1"	X		ABUTMENT BODY - TIES - HORIZ.
	B507	57	10'-3"	X		ABUTMENT BODY - TOP - VERT.
	B408	2	26'-4"			ABUTMENT BODY - TOP - HORIZ.
	B409	2	27'-3"			ABUTMENT BODY - TOP - HORIZ.
	B410	33	3'-11"	X		ABUTMENT BODY - TOP - VERT.
	B811	9	16'-9"	X	X	WING 3 - B.F. - HORIZ.
	B512	9	15'-3"	X	X	WING 3 - F.F. - HORIZ.
‡	B413	30	12'-9"	X	X	WING 3 - F.F. & B.F. - VERT.
	B414	11	14'-5"	X	X	WING 3 - F.F. & B.F. - VERT.
	B415	4	11'-9"	X	X	WING 3 - HORIZ.
	B416	2	13'-8"		X	WING 3 - HORIZ.
	B417	2	10'-3"		X	WING 3 - HORIZ.
	B418	2	6'-8"		X	WING 3 - HORIZ.
	B419	2	13'-2"	X	X	WING 3 - HORIZ.
	B820	9	13'-0"	X	X	WING 4 - B.F. - HORIZ.
	B521	9	12'-5"	X	X	WING 4 - F.F. - HORIZ.
‡	B422	22	11'-1"	X	X	WING 4 - F.F. & B.F. - VERT.
	B423	9	12'-9"	X	X	WING 4 - F.F. & B.F. - VERT.
	B424	4	9'-9"	X	X	WING 4 - HORIZ.
	B425	2	10'-6"		X	WING 4 - HORIZ.
	B426	2	8'-2"		X	WING 4 - HORIZ.
	B427	2	5'-10"		X	WING 4 - HORIZ.
	B428	2	10'-11"	X	X	WING 4 - HORIZ.

BAR SERIES

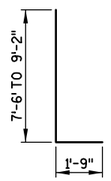
BAR MARK	NO. REQ'D	LENGTH
B505	2 SERIES OF 57	8'-9" TO 10'-6"
B413	2 SERIES OF 15	11'-9" TO 13'-9"
B422	2 SERIES OF 11	10'-1" TO 12'-0"

BUNDLE AND TAG EACH SERIES SEPARATELY

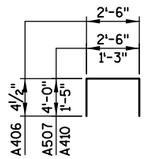


A801

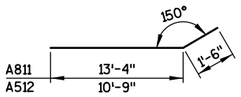
A802



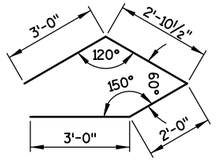
A505



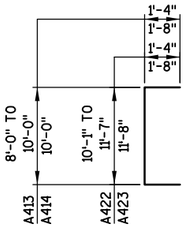
A406, A507, A410



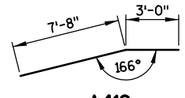
A811, A512



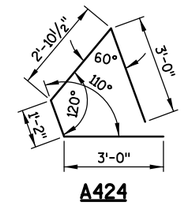
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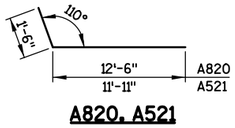
A413, A414, A422, A423



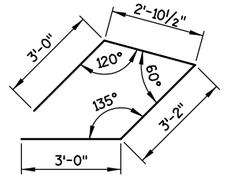
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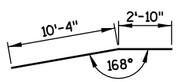
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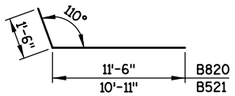
A820, A521



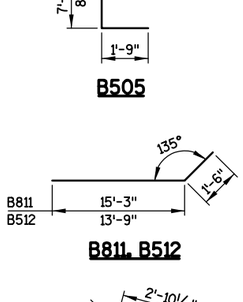
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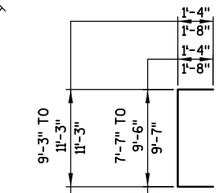
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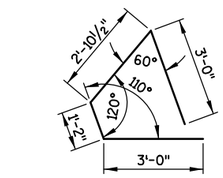
B820, B521



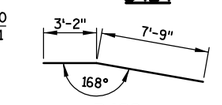
B811, B512



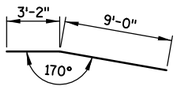
B413, B414, B422, B423



B424



B428



A428

STATE PROJECT NUMBER
6050-00-71

LEGEND

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

◆ USE A JOINT TOOL TO CONSTRUCT A CONTRACTION JOINT APPROXIMATELY ½" DEEP.

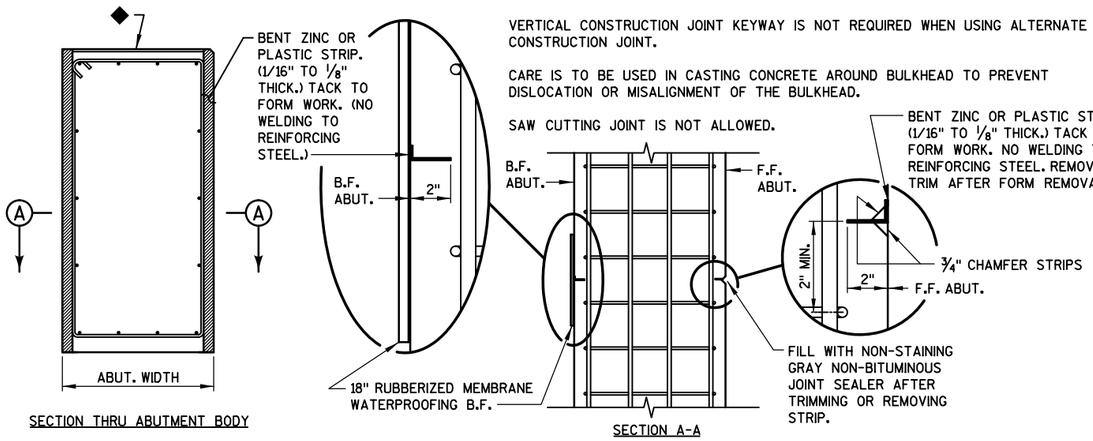
NOTES

PARTIAL ZINC OR PLASTIC BULKHEAD MAY BE USED AS ALTERNATE CONSTRUCTION JOINT, WITH THE PERMISSION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

VERTICAL CONSTRUCTION JOINT KEYWAY IS NOT REQUIRED WHEN USING ALTERNATE CONSTRUCTION JOINT.

CARE IS TO BE USED IN CASTING CONCRETE AROUND BULKHEAD TO PREVENT DISLOCATION OR MISALIGNMENT OF THE BULKHEAD.

SAW CUTTING JOINT IS NOT ALLOWED.



SECTION THRU ABUTMENT BODY

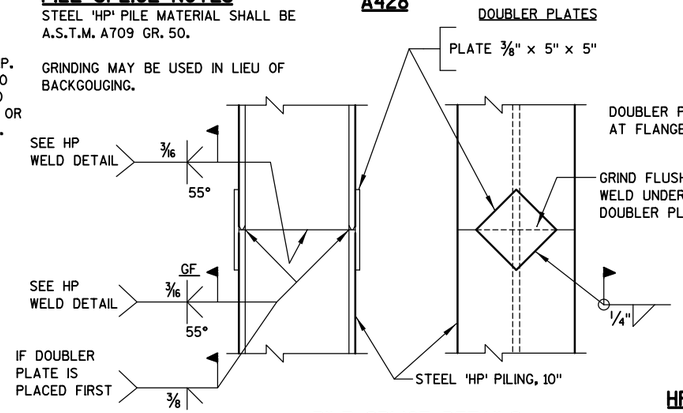
SECTION A-A

ALTERNATE CONSTRUCTION JOINT AT ABUTMENT

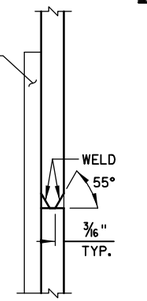
PILE SPLICE NOTES

STEEL 'HP' PILE MATERIAL SHALL BE A.S.T.M. A709 GR. 50.

GRINDING MAY BE USED IN LIEU OF BACKGOUGING.



PILE SPLICE DETAILS



HP WELD DETAIL
FLANGE SHOWN, WEB SIMILAR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-11-171

DRAWN BY DTH | PLANS CK'D. DJW

ABUTMENT BILL OF BARS & DETAILS

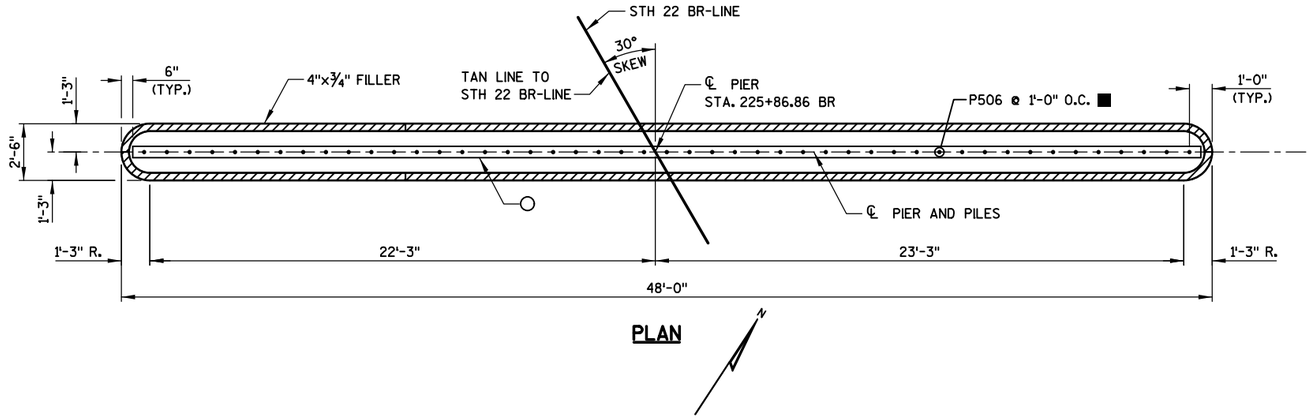
SHEET 8 OF 14
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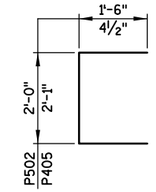
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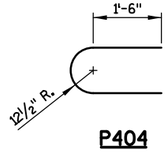
STATE PROJECT NUMBER
6050-00-71



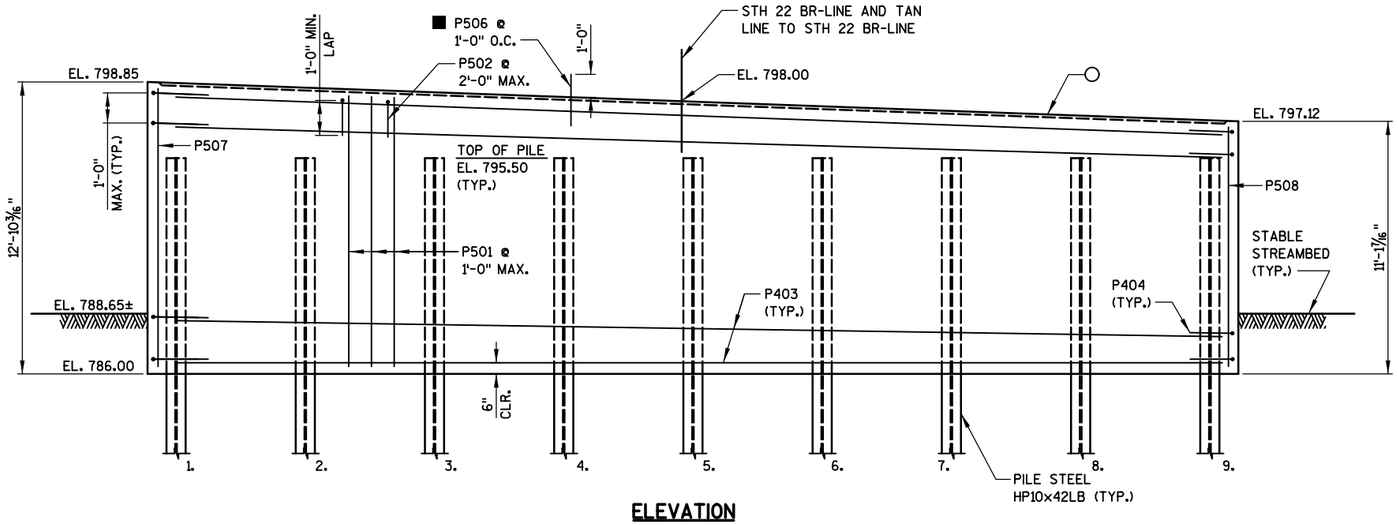
PLAN



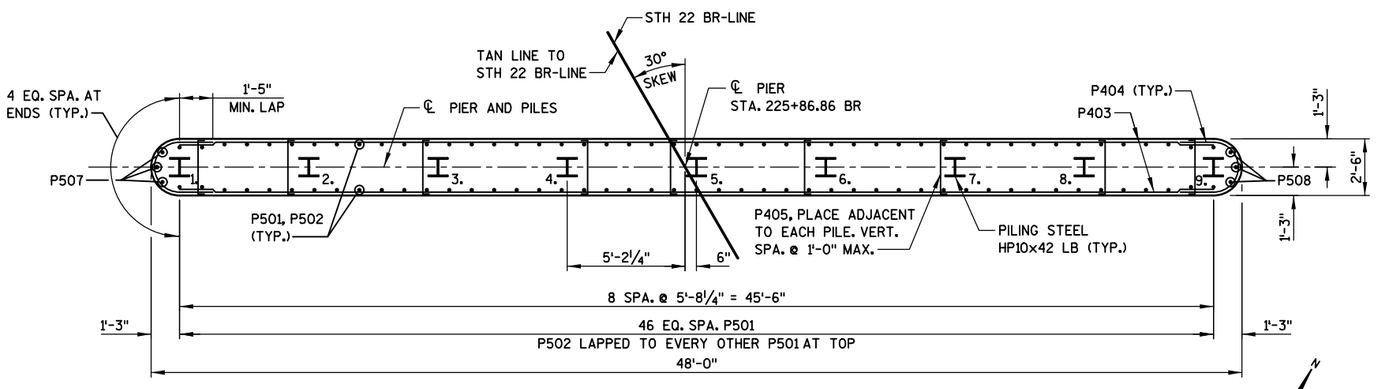
P502, P405



P404



ELEVATION
(LOOKING NORTH)



PILE AND REINFORCING PLAN

PIER

BILL OF BARS

UNCOATED: 2,360 LBS
COATED: 100 LBS

BAR MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
‡ P501	94	11'-4"			PIER - VERT.
P502	24	4'-9"	X		PIER - STIRRUPS - TOP - VERT.
P403	26	45'-6"			PIER - SIDES - HORIZ.
P404	26	6'-3"	X		PIER - ENDS - HORIZ.
P405	90	2'-8"	X		PIER - TIES - HORIZ.
P506	47	2'-0"		X	PIER - DOWELS - VERT.
P507	3	12'-2"			PIER - WEST END - VERT.
P508	3	10'-5"			PIER - EAST END - VERT.

BAR SERIES

BAR MARK	NO. REQ'D	LENGTH
P501	2 SERIES OF 47	10'-6" TO 12'-1"

BUNDLE AND TAG EACH SERIES SEPARATELY

NOTES

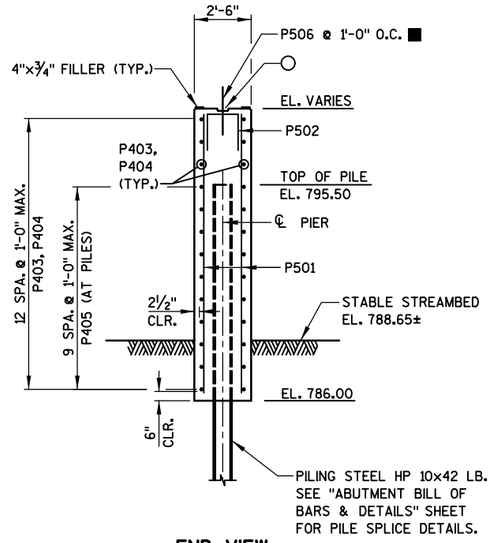
PIER TO BE SUPPORTED ON HP10x42 STEEL PILING WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 70 FEET LONG EACH.

LEGEND

○ KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2"x6".

■ P506 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.

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



END VIEW

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-11-171

DRAWN BY DTH | PLANS CK'D. DJW

PIER DETAILS

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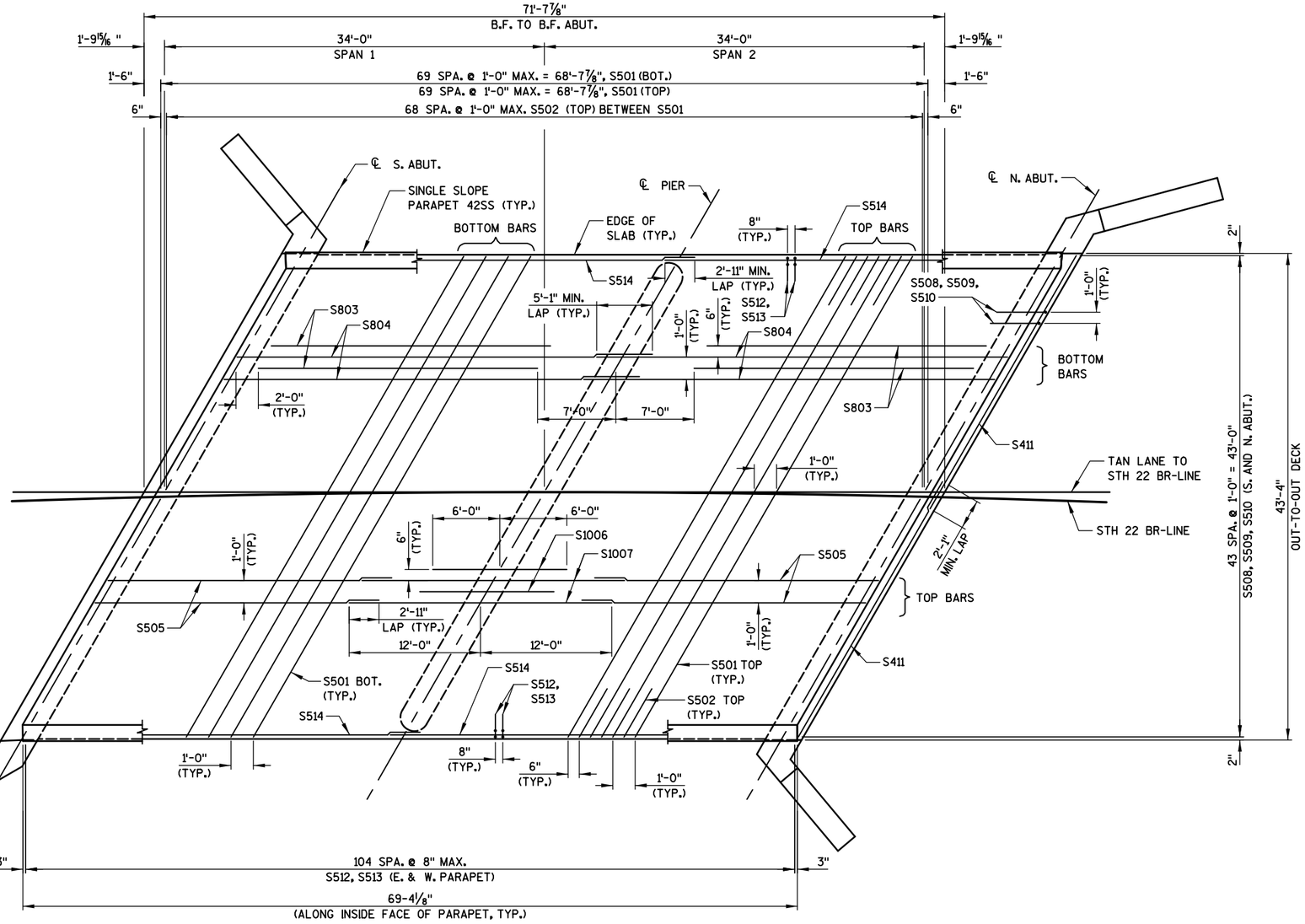
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STATE PROJECT NUMBER

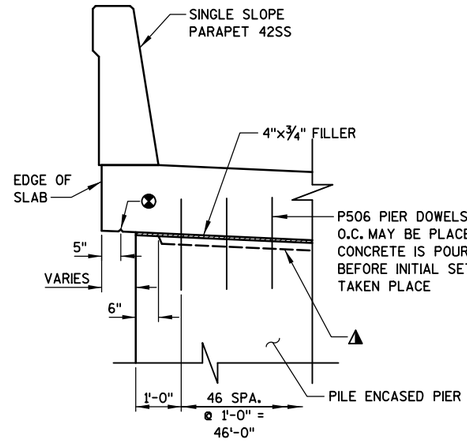
6050-00-71

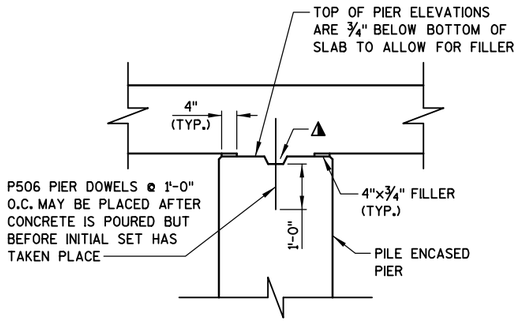
LEGEND

- 18" RUBBERIZED MEMBRANE WATERPROOFING.
- KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2"x6".
- ¾" V-GROOVE REQ'D. EXTEND TO 6" FROM F.F. OF ABUT. DIAPHRAGMS.

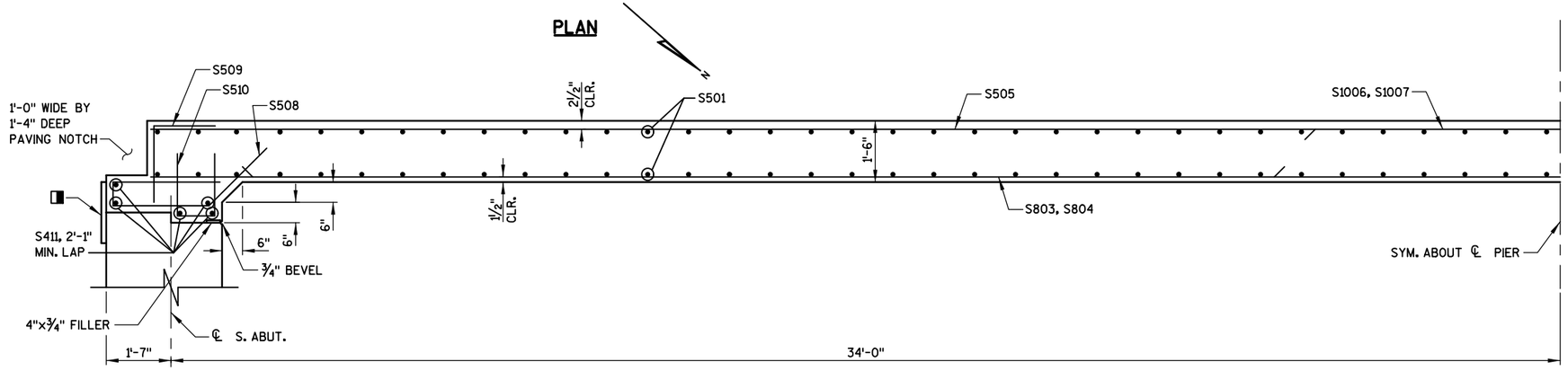


PLAN





PIER DETAILS



HALF LONGITUDINAL SECTION

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

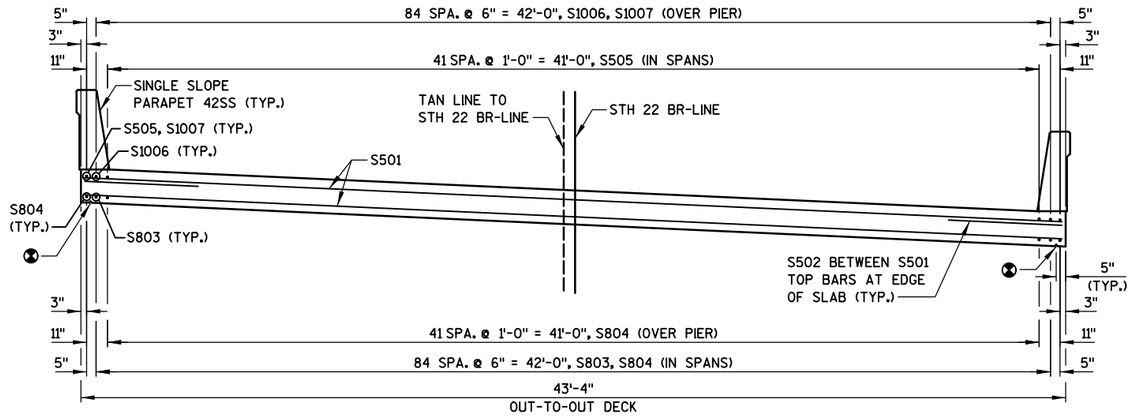
STRUCTURE B-11-171

DRAWN BY DTH | PLANS CK'D. DJW

SUPERSTRUCTURE PLAN, SECTION, AND DETAILS

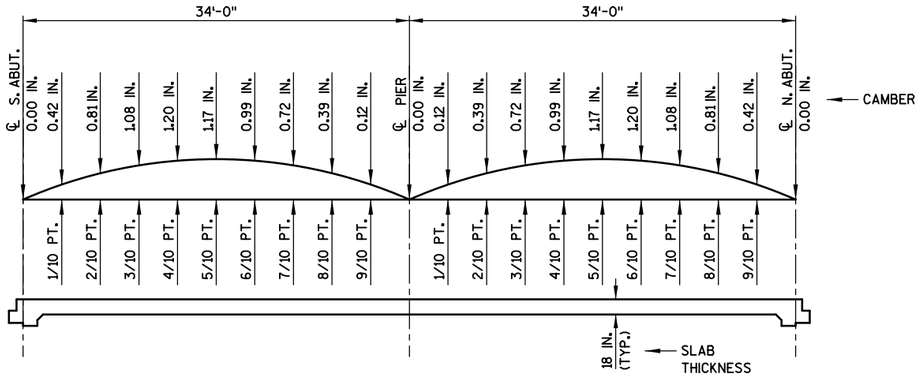
SHEET 10 OF 14
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CROSS SECTION THRU SUPERSTRUCTURE

(LOOKIING NORTH)



SECTION THRU ABUTMENT BODY

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

PARAPETS, SIDEWALKS AND MEDIANS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN 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 CONTRATOR)
EQUALS	TOP OF SLAB FALSEWORK ELEVATION.

SURVEY TOP OF SLAB ELEVATIONS

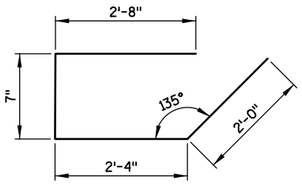
	S. ABUT	5/10 PT.	PIER	5/10 PT.	N. ABUT.
WEST EDGE OF SLAB					
TAN LINE TO STH 22 BR-LINE					
EAST EDGE OF SLAB					

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE C/L OF ABUTMENTS, THE C/L OF PIER, AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR R/L. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

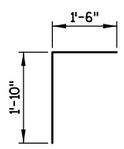
SUPERSTRUCTURE BILL OF BARS

COATED: 36,770

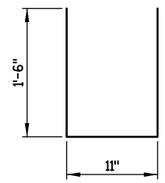
BAR MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
S501	140	49'-7"		X	SLAB - TRANSVERSE - TOP & BOTTOM
S502	138	5'-0"		X	SLAB - TRANSVERSE - TOP
S803	86	25'-0"		X	SLAB - LONG. - BOTTOM
S804	88	37'-1"		X	SLAB - LONG. - BOTTOM
S505	88	25'-5"		X	SLAB - LONG. - TOP
S1006	43	12'-0"		X	SLAB - LONG. - TOP
S1007	44	24'-0"		X	SLAB - LONG. - TOP
S508	88	7'-4"	X	X	ABUT. DIAPHRAGM - VERT.
S509	88	3'-3"	X	X	ABUT. DIAPHRAGM - VERT.
S510	88	3'-8"	X	X	ABUT. DIAPHRAGM - VERT.
S411	20	25'-11"		X	ABUT. DIAPHRAGM - HORIZ.
S512	210	4'-5"	X	X	PARAPET - VERT.
S513	210	6'-8"	X	X	PARAPET - VERT.
S514	32	36'-1"		X	PARAPET - HORIZ.



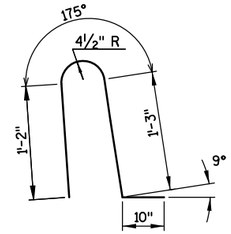
S508



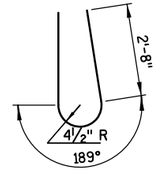
S509



S510



S512



S513

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 CONTINOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

LEGEND

⊗ ¾" V-GROOVE REQ'D. EXTEND TO 6" FROM F.F. OF ABUT. DIAPHRAGMS.

TOP OF DECK ELEVATION

LOCATION	WEST EDGE OF DECK 21.25'LT TAN LINE *		TAN LINE VARIES		STH 22 BR-LINE -		EAST EDGE OF DECK 22.08'RT TAN LINE *	
	STATION	ELEV.	STATION	ELEV.	STATION	ELEV.	STATION	ELEV.
C/L S. ABUT.	225+64.73	800.60	225+52.87	799.79	225+52.62	799.77	225+40.16	798.94
0.1L POINT	225+68.08	800.58	225+56.27	799.76	225+56.04	799.75	225+43.61	798.92
0.2L POINT	225+71.43	800.56	225+59.67	799.74	225+59.47	799.73	225+47.06	798.89
0.3L POINT	225+74.79	800.54	225+63.07	799.72	225+62.89	799.71	225+50.51	798.87
0.4L POINT	225+78.14	800.52	225+66.47	799.69	225+66.32	799.69	225+53.96	798.84
0.5L POINT	225+81.49	800.50	225+69.87	799.67	225+69.74	799.67	225+57.41	798.82
0.6L POINT	225+84.84	800.48	225+73.27	799.65	225+73.17	799.65	225+60.86	798.79
0.7L POINT	225+88.19	800.46	225+76.67	799.63	225+76.59	799.63	225+64.31	798.77
0.8L POINT	225+91.55	800.44	225+80.07	799.61	225+80.02	799.60	225+67.76	798.75
0.9L POINT	225+94.90	800.42	225+83.47	799.58	225+83.44	799.58	225+71.21	798.72
C/L PIER	225+98.25	800.40	225+86.86	799.56	225+86.86	799.56	225+74.66	798.70
0.1L POINT	226+01.60	800.38	225+90.26	799.54	225+90.24	799.54	225+78.11	798.68
0.2L POINT	226+04.95	800.36	225+93.66	799.52	225+93.62	799.52	225+81.56	798.66
0.3L POINT	226+08.30	800.34	225+97.06	799.50	225+97.00	799.50	225+85.01	798.64
0.4L POINT	226+11.65	800.33	226+00.46	799.49	226+00.37	799.48	225+88.46	798.62
0.5L POINT	226+15.00	800.31	226+03.86	799.47	226+03.75	799.46	225+91.91	798.60
0.6L POINT	226+18.35	800.29	226+07.26	799.45	226+07.13	799.44	225+95.36	798.58
0.7L POINT	226+21.70	800.27	226+10.66	799.43	226+10.50	799.42	225+98.82	798.56
0.8L POINT	226+25.05	800.26	226+14.06	799.42	226+13.88	799.40	226+02.27	798.54
0.9L POINT	226+28.40	800.24	226+17.46	799.40	226+17.26	799.38	226+05.72	798.52
C/L N. ABUT.	226+31.75	800.23	226+20.86	799.38	226+20.63	799.36	226+09.17	798.50

ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.

* OFFSET IS FROM TAN LINE TO STH 22 BR-LINE TO EDGE OF DECK. DECK ELEVATIONS AT FACE OF PARAPET (20.00'LT & 20.83'RT) ARE THE SAME AS AT EDGE OF DECK (DECK LEVEL UNDER PARAPET, SEE "SINGLE SLOPE PARAPET 42SS" SHEET FOR DETAIL).

STATE PROJECT NUMBER

6050-00-71

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-11-171

DRAWN BY DTH | PLANS CK'D. DJW

SUPERSTRUCTURE CROSS SECTION AND DETAILS

SHEET 11 OF 14
297

8

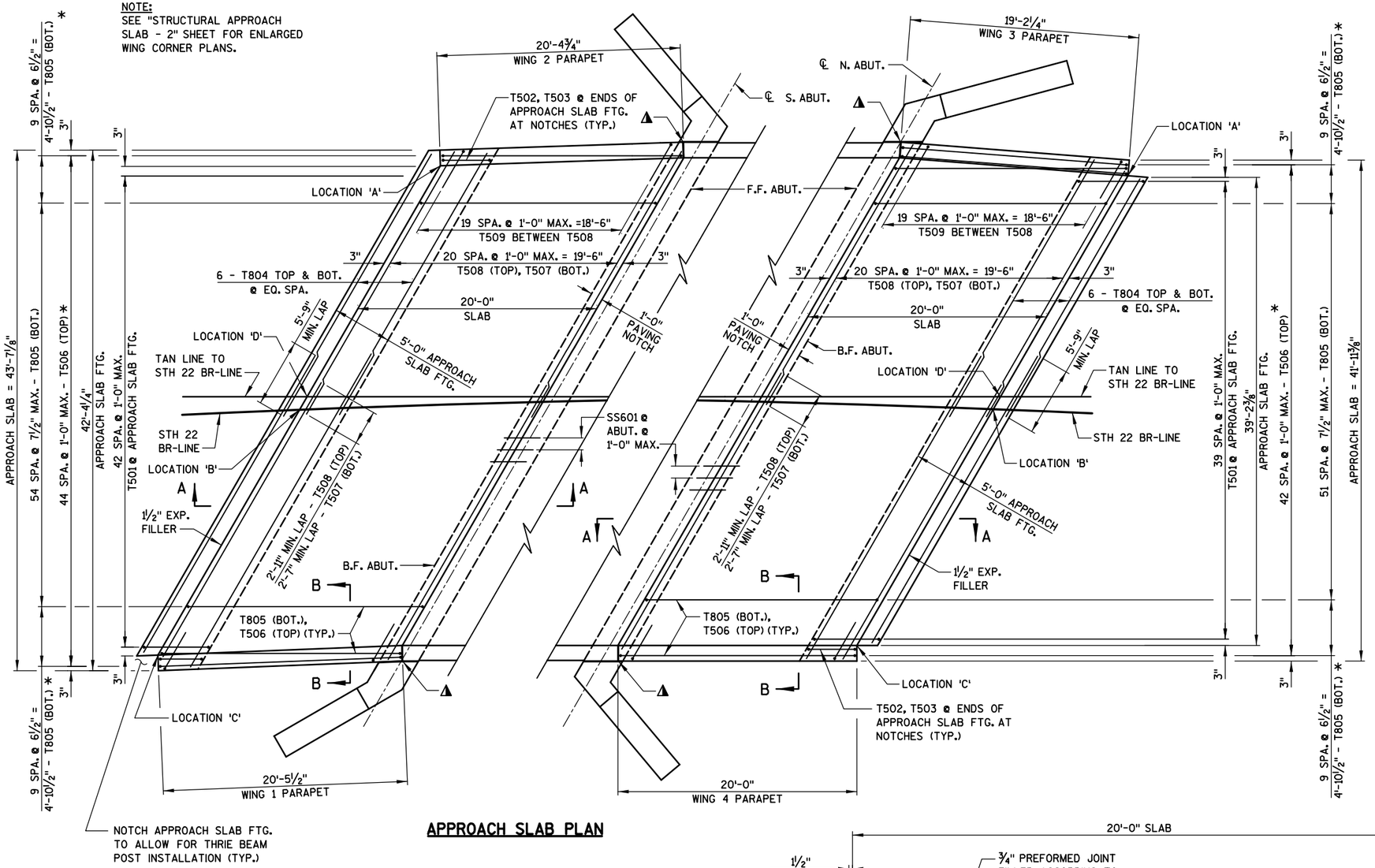
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STATE PROJECT NUMBER

6050-00-71

NOTE:
SEE "STRUCTURAL APPROACH SLAB - 2" SHEET FOR ENLARGED WING CORNER PLANS.



APPROACH SLAB PLAN

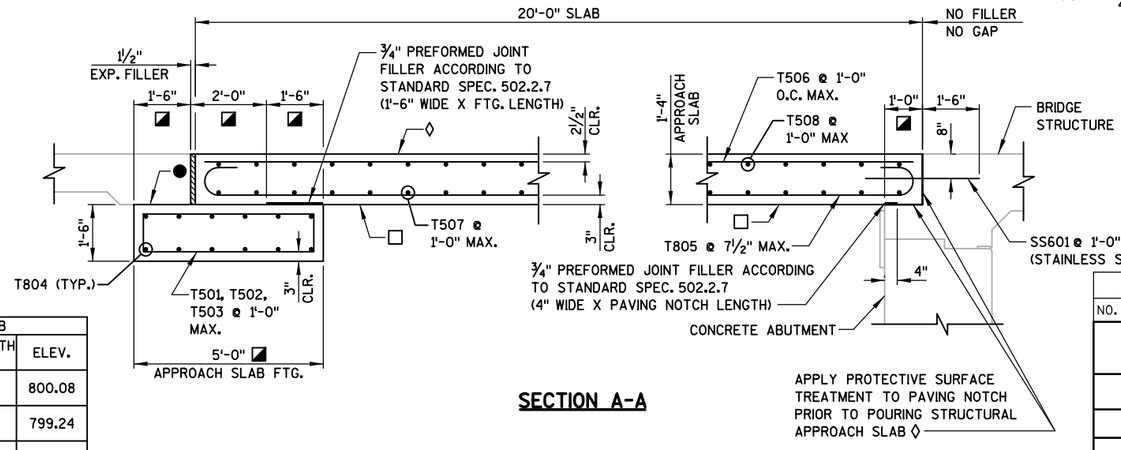
LEGEND

- □ PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THICKNESS) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF SUBGRADE BENEATH SLAB. (INCIDENTAL TO "CONCRETE MASONRY BRIDGES" BID ITEM).
- ◪ MEASURED NORMAL TO ABUTMENT.
- ● STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THICKNESS) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF FOOTING.
- ◊ COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS.
- * ROTATE BARS AS REQUIRED AT ENDS OF SLAB.
- ▲ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

DESIGN DATA

CONCRETE STRENGTH, f'c = 4,000 PSI.
BAR STEEL REINFORCEMENT
GRADE 60, fy = 60,000 PSI.
ALLOWABLE SOIL BEARING PRESSURE = 2,000 PSF.

SECTION B-B



SECTION A-A

TOP OF APPROACH SLAB ELEVATIONS

LOCATION	DESCRIPTION	SOUTH APPROACH SLAB			NORTH APPROACH SLAB		
		STATION (STH 22 BR-LINE)	OFFSET TO STH 22 BR-LINE	ELEV.	STATION (STH 22 BR-LINE)	OFFSET TO STH 22 BR-LINE	ELEV.
'A'	WEST FLOW LINE AT END OF APPROACH SLAB	225+43.96	20.00', LT.	800.72	226+51.32	20.00', LT.	800.08
'B'	STH 22 BR-LINE AT END OF APPROACH SLAB	225+31.55	0.00'	799.90	226+40.95	0.00'	799.24
'C'	EAST FLOW LINE AT END OF APPROACH SLAB	225+18.70	20.00', RT.	799.07	226+30.14	20.17', RT.	798.40
'D'	TAN LINE TO STH 22 BR-LINE AT END OF APPROACH SLAB	225+32.22	1.07', LT.	799.94	226+41.51	1.07', LT.	799.28

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-11-171

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STRUCTURAL APPROACH SLAB - 1

SHEET 12 OF 14
298

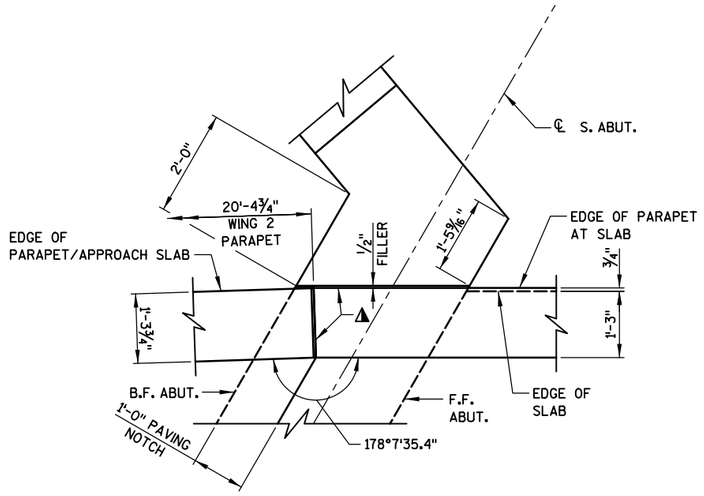
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STATE PROJECT NUMBER

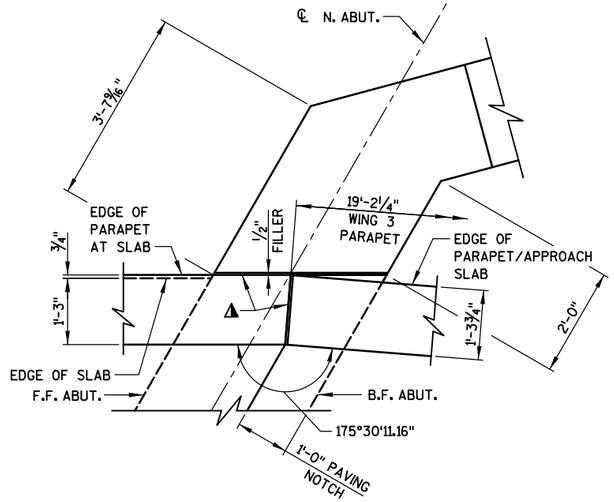
6050-00-71

LEGEND

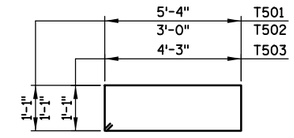
▲ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).



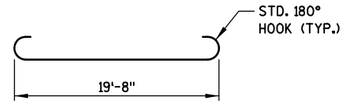
ENLARGED WING 2 CORNER PLAN



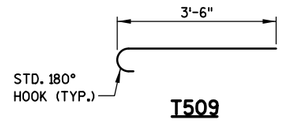
ENLARGED WING 3 CORNER PLAN



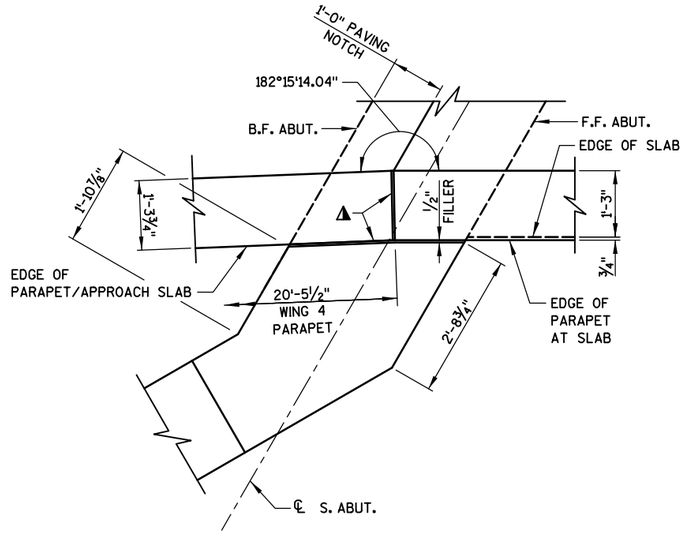
T501, T502, T503



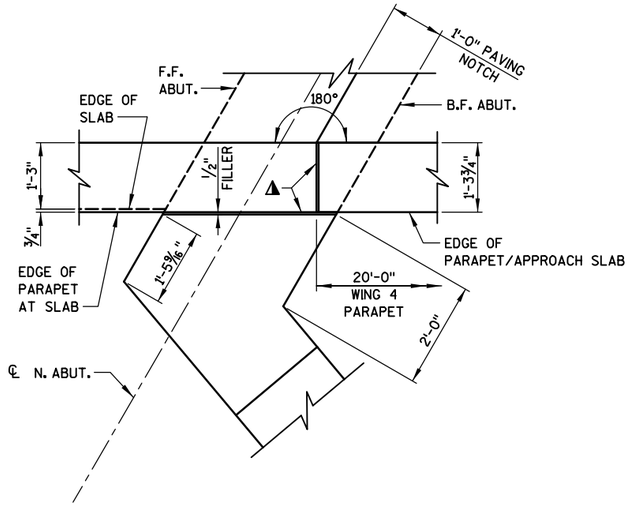
T805



T509



ENLARGED WING 1 CORNER PLAN



ENLARGED WING 4 CORNER PLAN

8

STRUCTURAL APPROACH SLABS
BILL OF BARS

COATED: 19,780 LBS

BAR MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
T501	83	13'-6"	X	X	APPROACH SLAB FTG. - STIRRUP
T502	4	8'-10"	X	X	APPROACH SLAB FTG. - STIRRUP - ENDS - WINGS 1& 3
T503	2	11'-4"	X	X	APPROACH SLAB FTG. - STIRRUP - ENDS - WING 4
T804	48	27'-11"		X	APPROACH SLAB FTG. - TRANS.
T805	143	21'-6"	X	X	APPROACH SLAB - LONG. - BOT.
T506	88	19'-7"		X	APPROACH SLAB - LONG. - TOP
T507	84	26'-4"		X	APPROACH SLAB - TRANS. - BOT.
T508	84	26'-6"		X	APPROACH SLAB - TRANS. - TOP
T509	80	4'-1"	X	X	APPROACH SLAB - TRANS. - TOP - WING

STAINLESS STEEL
BILL OF BARS

TOTAL: 400 LBS

BAR MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
SS601	88	3'-0"			STRUCTURE SLAB TO APPROACH SLAB

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-11-171

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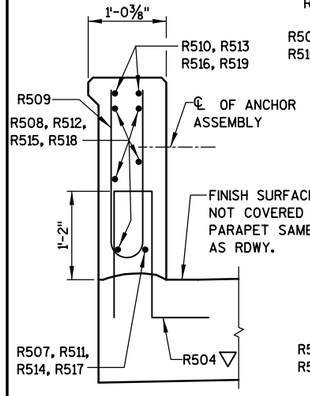
STRUCTURAL APPROACH SLAB - 2

SHEET 13 OF 14

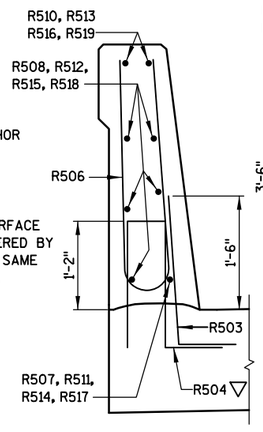
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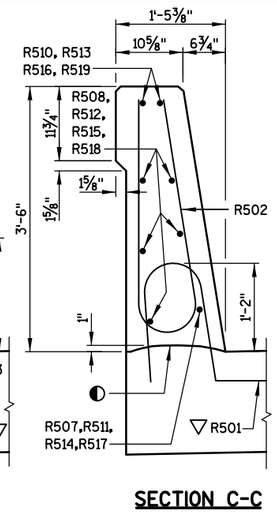
STATE PROJECT NUMBER
6050-00-71



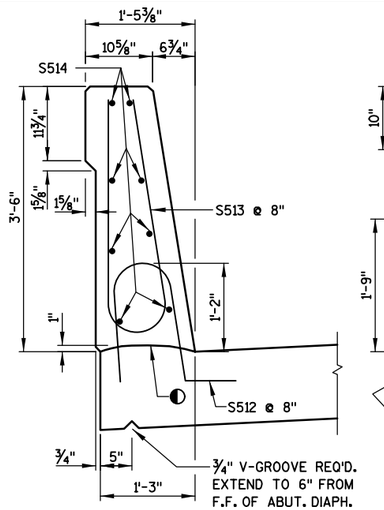
SECTION A-A



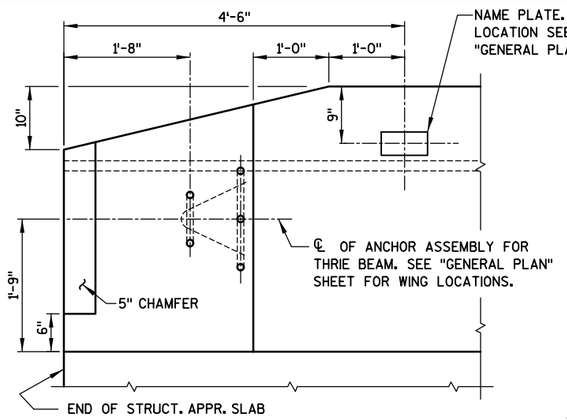
SECTION B-B



SECTION C-C



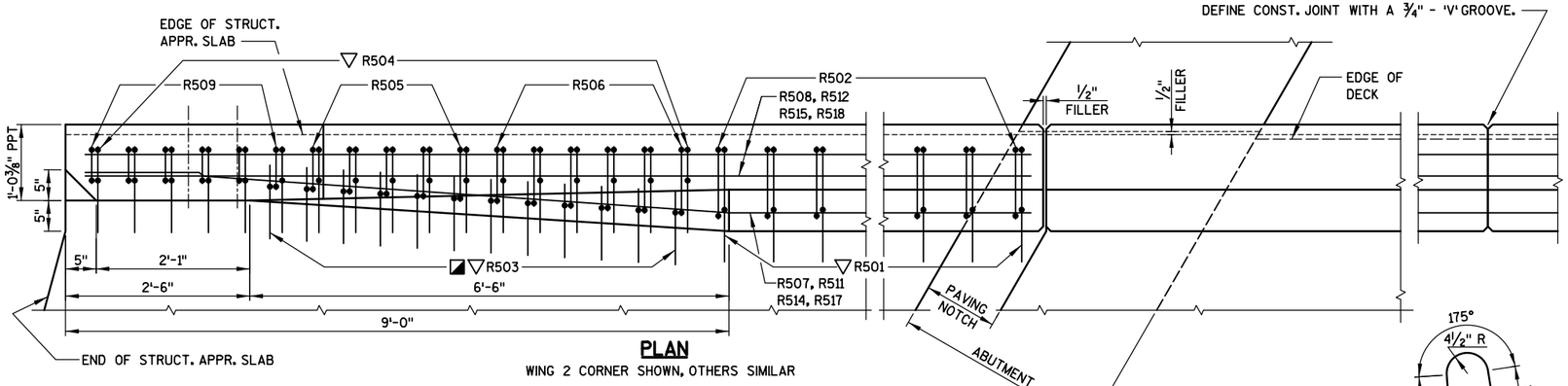
SECTION THRU PARAPET ON DECK



PARAPET END TREATMENT DETAIL

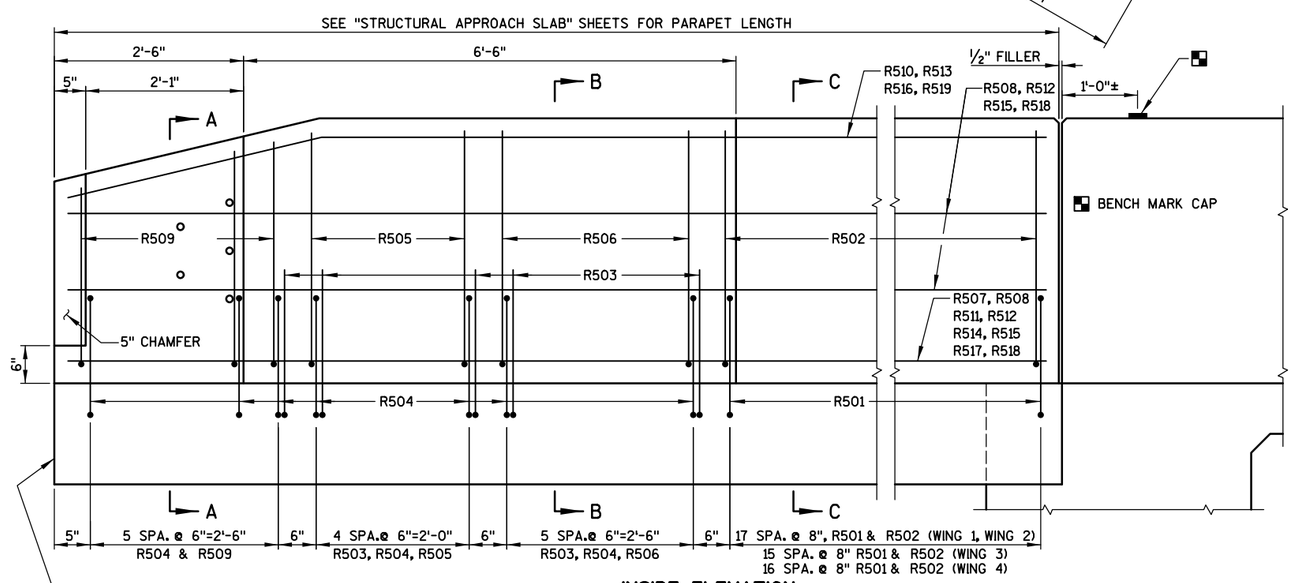
LOOKING AT INSIDE FACE OF PARAPET

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



PLAN

WING 2 CORNER SHOWN, OTHERS SIMILAR



INSIDE ELEVATION

WING 2 CORNER SHOWN, OTHERS SIMILAR

WING & STRUCTURAL APPROACH SLAB FOOTING NOT SHOWN FOR CLARITY

SINGLE SLOPE PARAPET 42SS
BILL OF BARS

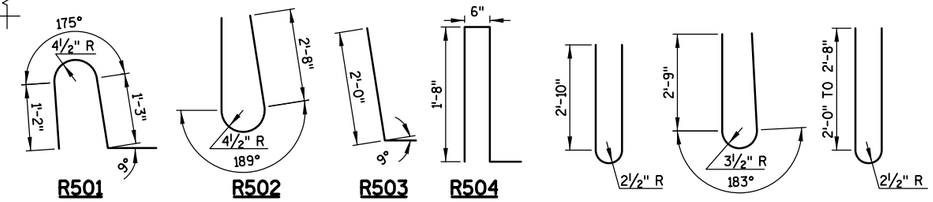
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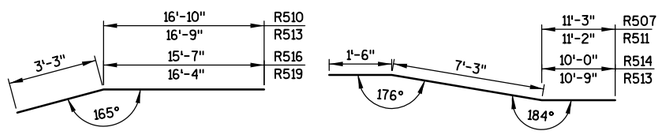
BAR MARK	NO. REQ'D		LENGTH	BENT	COAT	LOCATION
	S. ABUT.	N. ABUT.				
R501	36	33	4'-5"	X	X	PARAPET - VERT.
R502	36	33	6'-8"	X	X	PARAPET - VERT.
R503	24	24	2'-9"	X	X	PARAPET - VERT.
R504	34	34	4'-4"	X	X	PARAPET - VERT.
R505	10	10	6'-5"	X	X	PARAPET - VERT.
R506	12	12	6'-6"	X	X	PARAPET - VERT.
R507	1	---	20'-0"	X	X	PARAPET - WING 1 - HORIZ.
R508	5	---	20'-1"		X	PARAPET - WING 1 - HORIZ.
‡ R509	12	12	5'-5"	X	X	PARAPET - VERT.
R510	2	---	20'-1"	X	X	PARAPET - WING 1 - HORIZ.
R511	1	---	19'-11"	X	X	PARAPET - WING 2 - HORIZ.
R512	5	---	20'-0"		X	PARAPET - WING 2 - HORIZ.
R513	2	---	20'-0"	X	X	PARAPET - WING 2 - HORIZ.
R514	---	1	18'-9"	X	X	PARAPET - WING 3 - HORIZ.
R515	---	5	18'-10"		X	PARAPET - WING 3 - HORIZ.
R516	---	2	18'-10"	X	X	PARAPET - WING 3 - HORIZ.
R517	---	1	19'-6"	X	X	PARAPET - WING 4 - HORIZ.
R518	---	5	19'-7"		X	PARAPET - WING 4 - HORIZ.
R519	---	2	19'-7"	X	X	PARAPET - WING 4 - HORIZ.

BAR SERIES

BAR MARK	NO. REQ'D	LENGTH
R509	4 SERIES OF 6	4'-9" TO 6'-1"

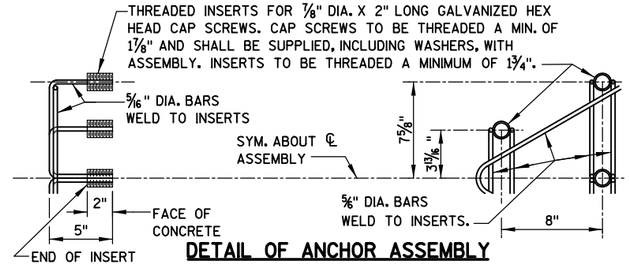
BUNDLE AND TAG EACH SERIES SEPARATELY





LEGEND

- ◐ CONST. JOINT - STRIKE OFF AS SHOWN
- ◪ USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.
- ▽ R501, R503, AND R504 BARS TO BE TIED TO STRUCTURAL APPROACH SLAB STEEL BEFORE STRUCTURAL APPROACH SLAB IS POURED.
- ‡ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



DETAIL OF ANCHOR ASSEMBLY

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

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

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-11-171

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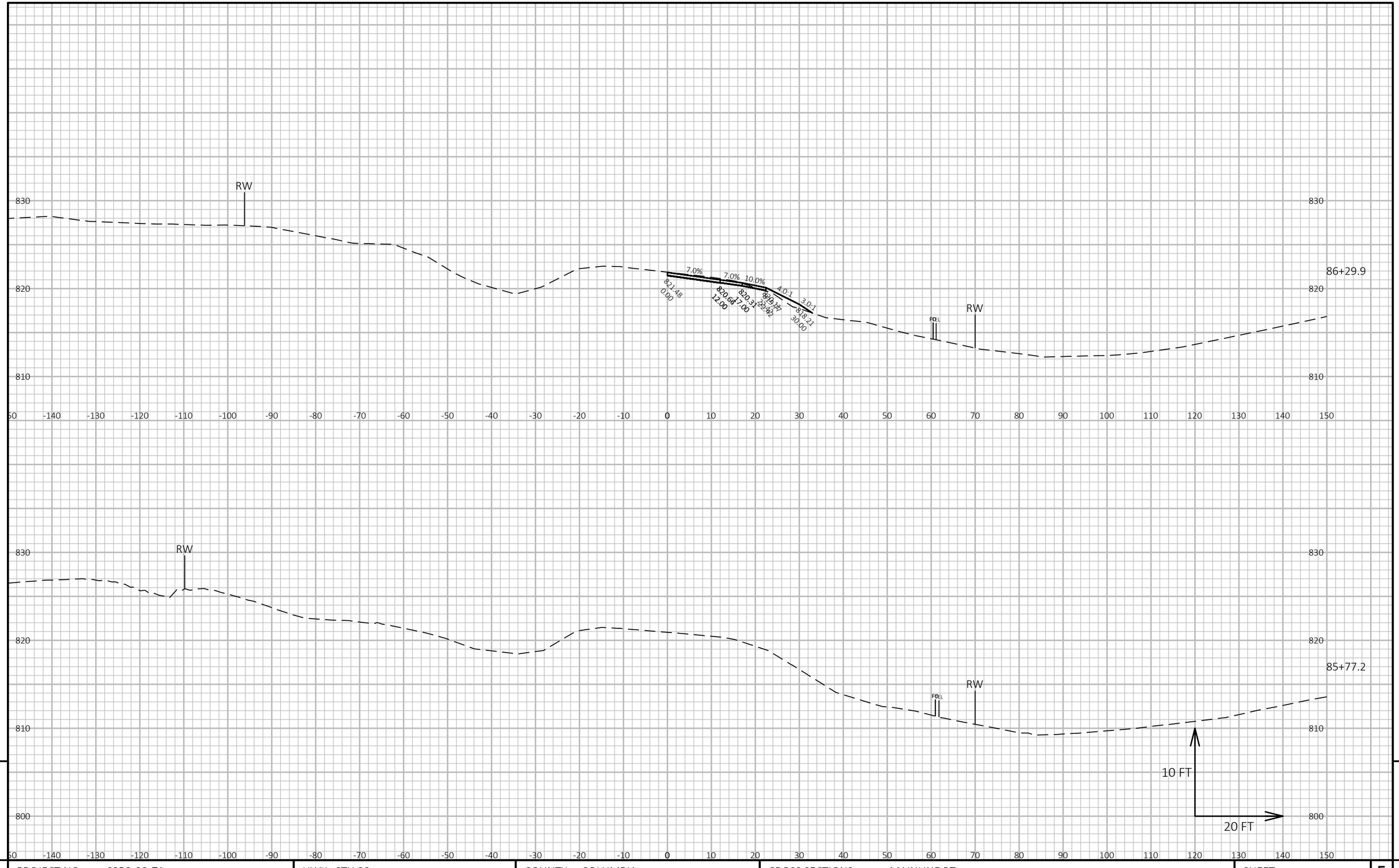
SINGLE SLOPE PARAPET 42SS

SHEET 14 OF 14
300

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8

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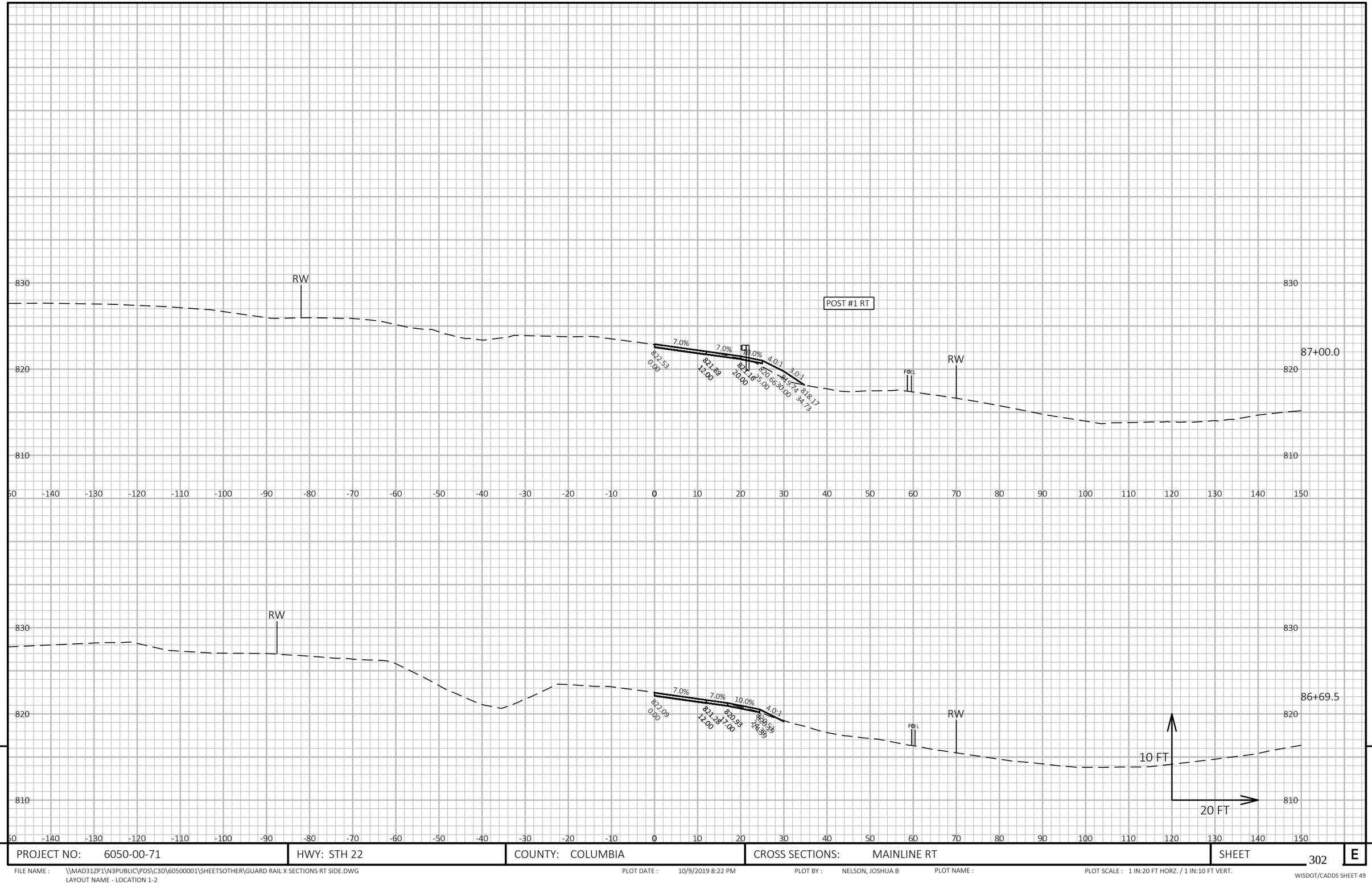


PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 301 E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 1-1

PLOT DATE : 10/9/2019 8:22 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

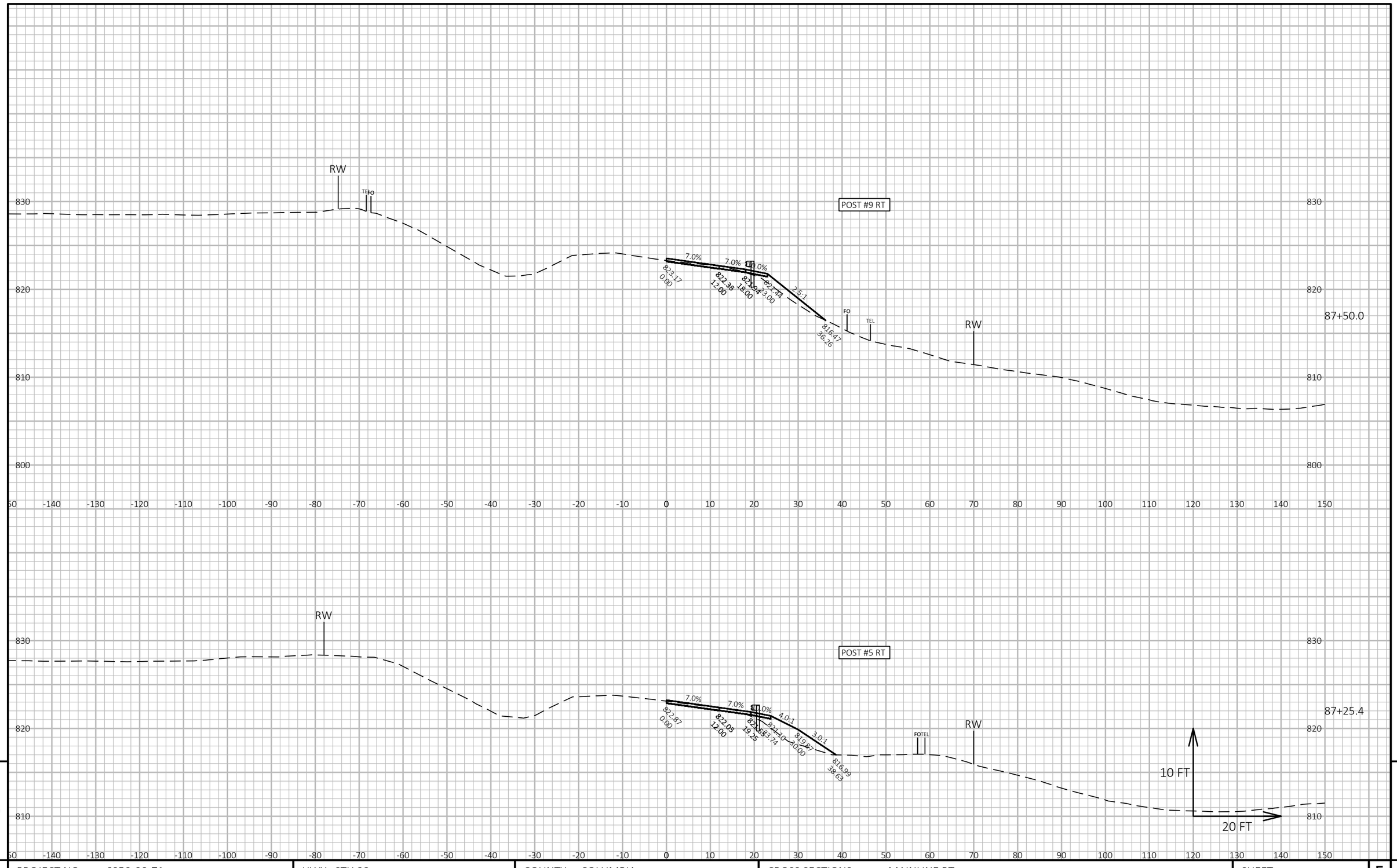
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 302	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 1-2

PLOT DATE : 10/9/2019 8:22 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



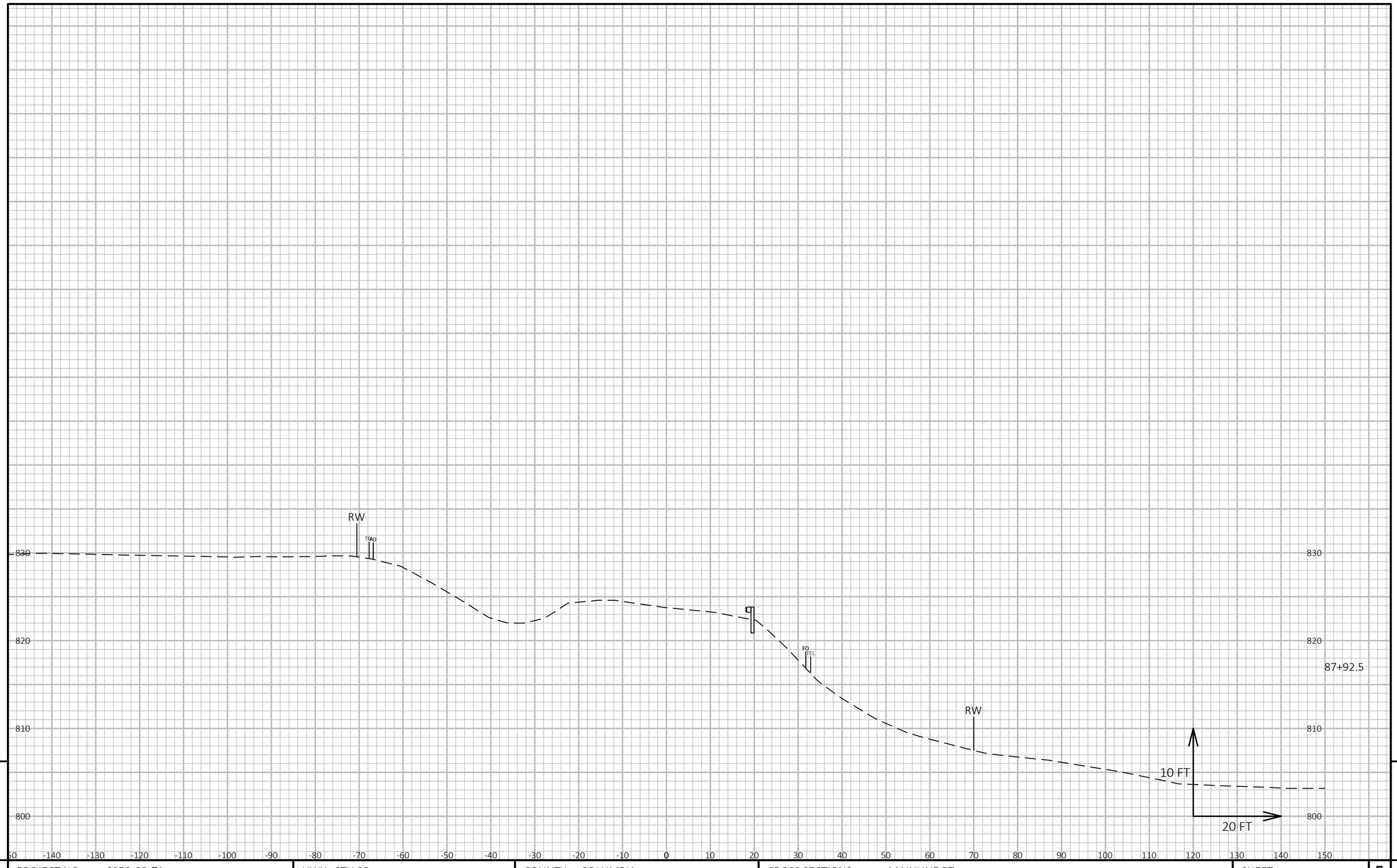
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 303	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 1-3

PLOT DATE : 10/9/2019 8:22 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



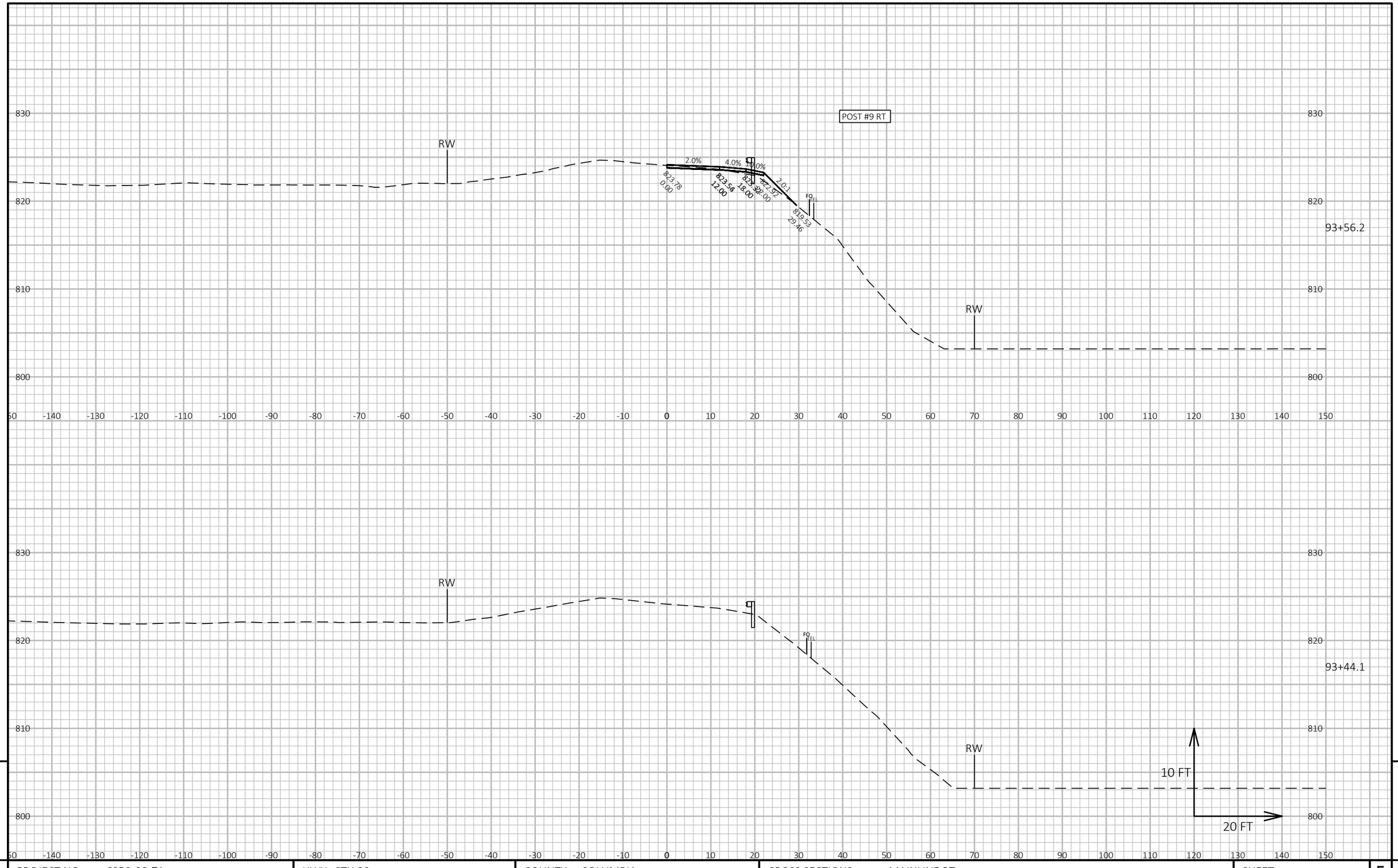
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 304	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 1-4

PLOT DATE : 10/9/2019 8:22 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

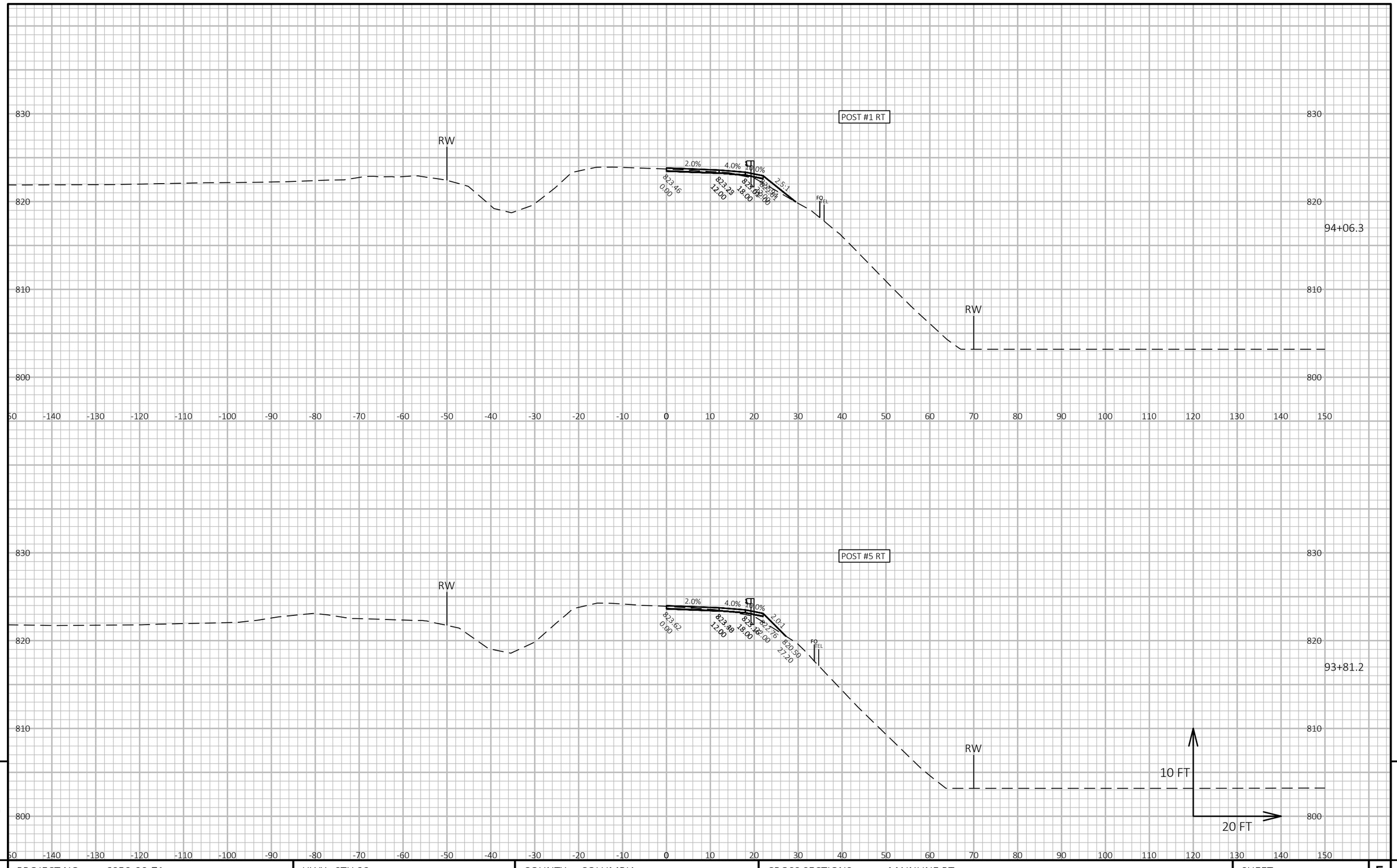
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 305	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 1-5

PLOT DATE : 10/9/2019 8:23 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

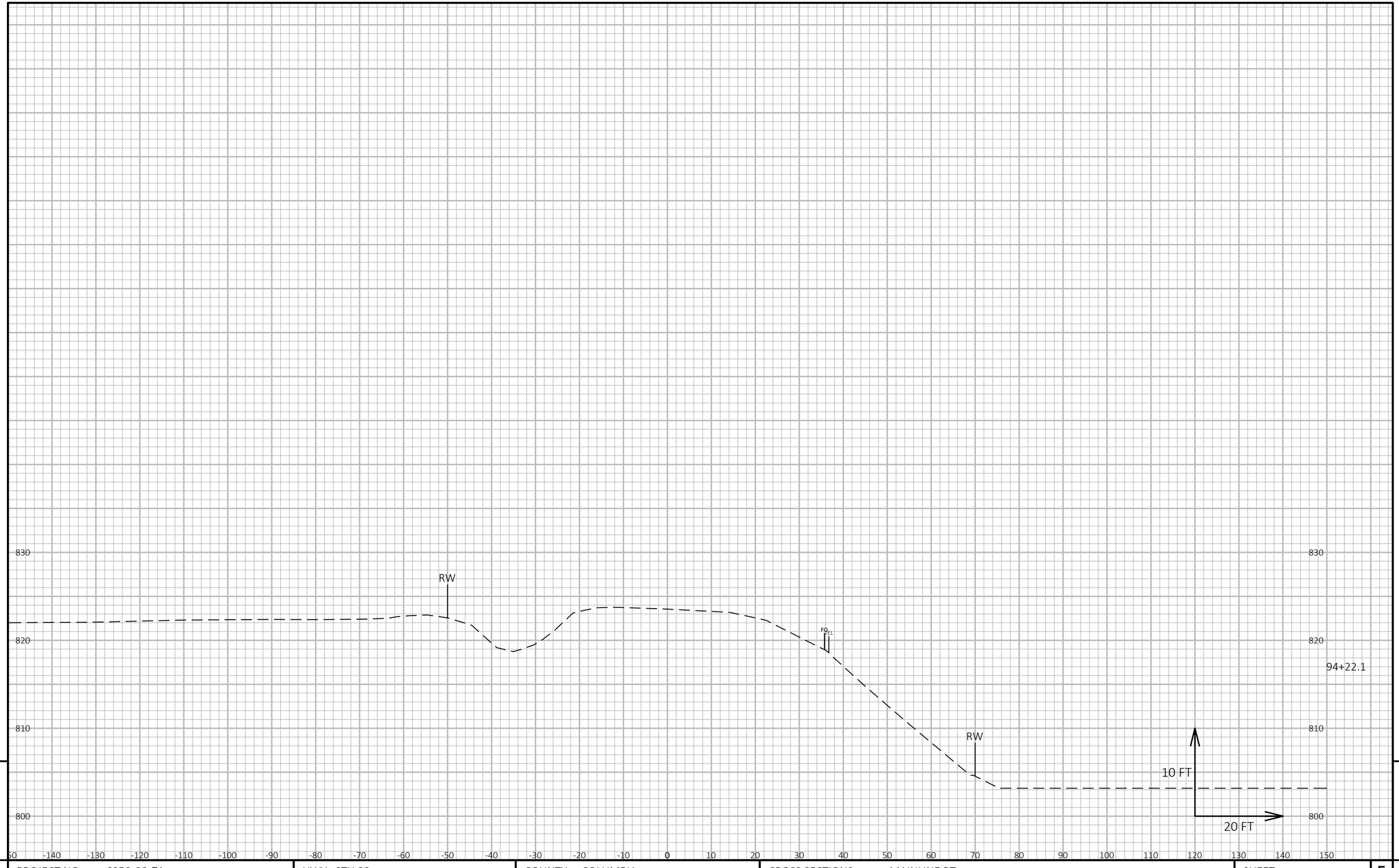
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 306	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 1-6

PLOT DATE : 10/9/2019 8:23 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

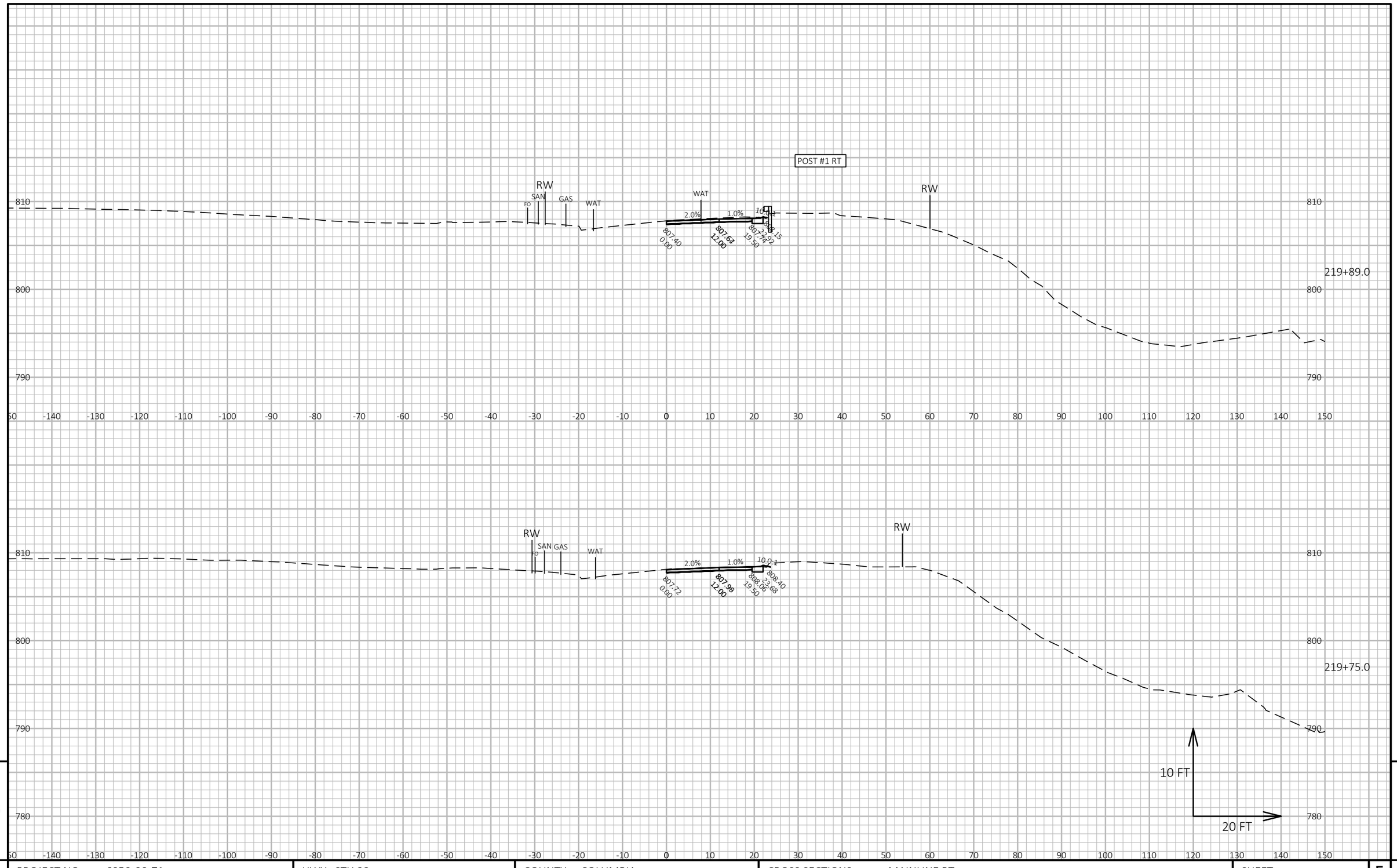
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 307	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 1-7

PLOT DATE : 10/9/2019 8:23 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 308	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 2-1

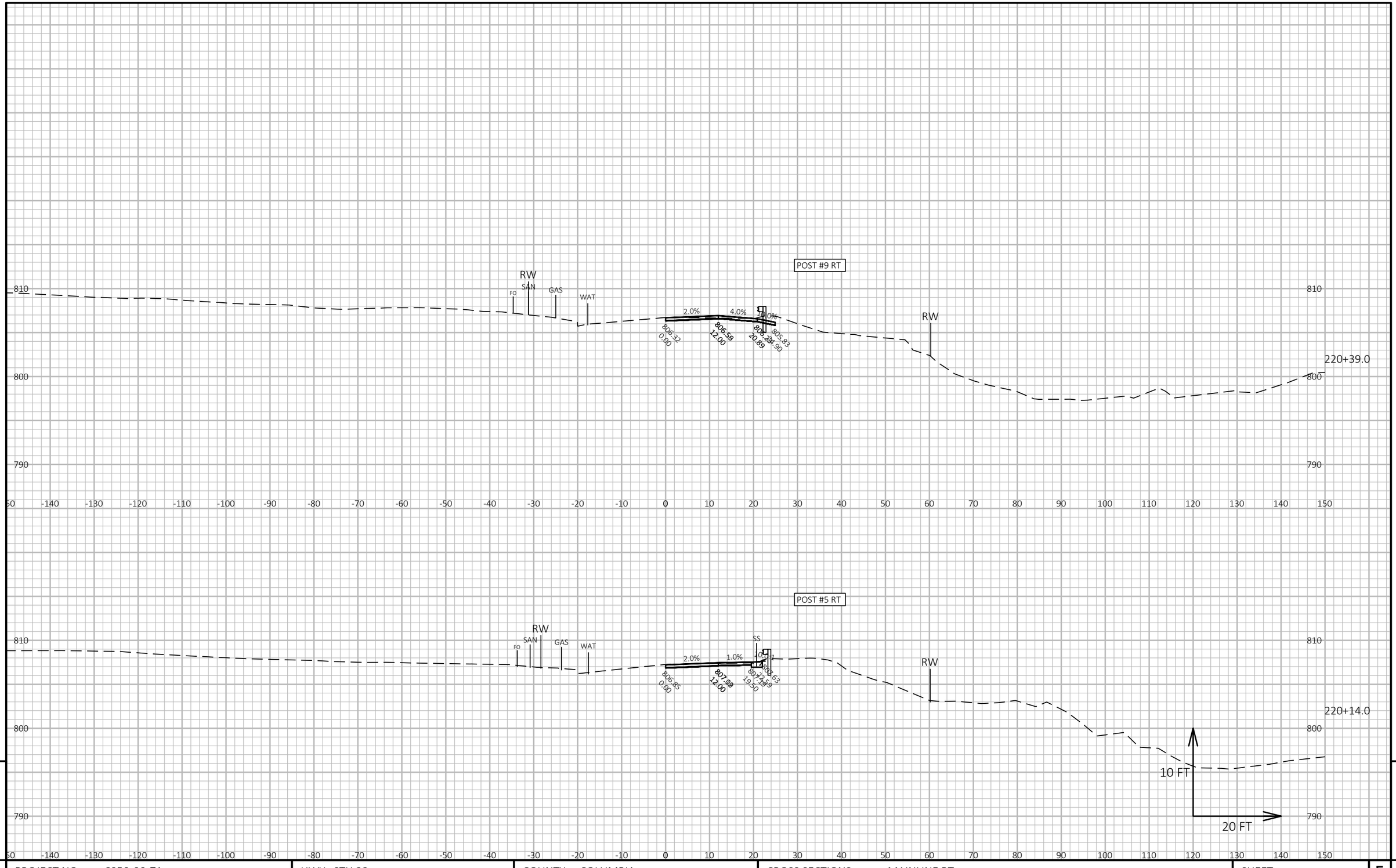
PLOT DATE : 10/9/2019 8:23 PM

PLOT BY : NELSON, JOSHUA B

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

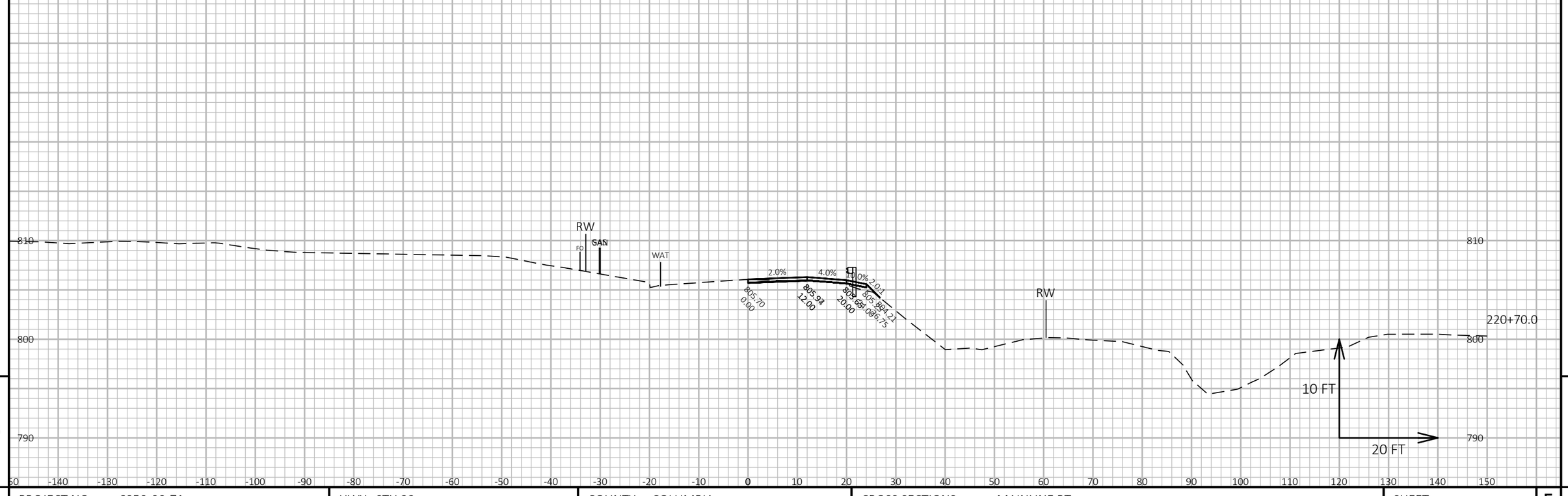
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 309	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 2-2

PLOT DATE : 10/9/2019 8:23 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

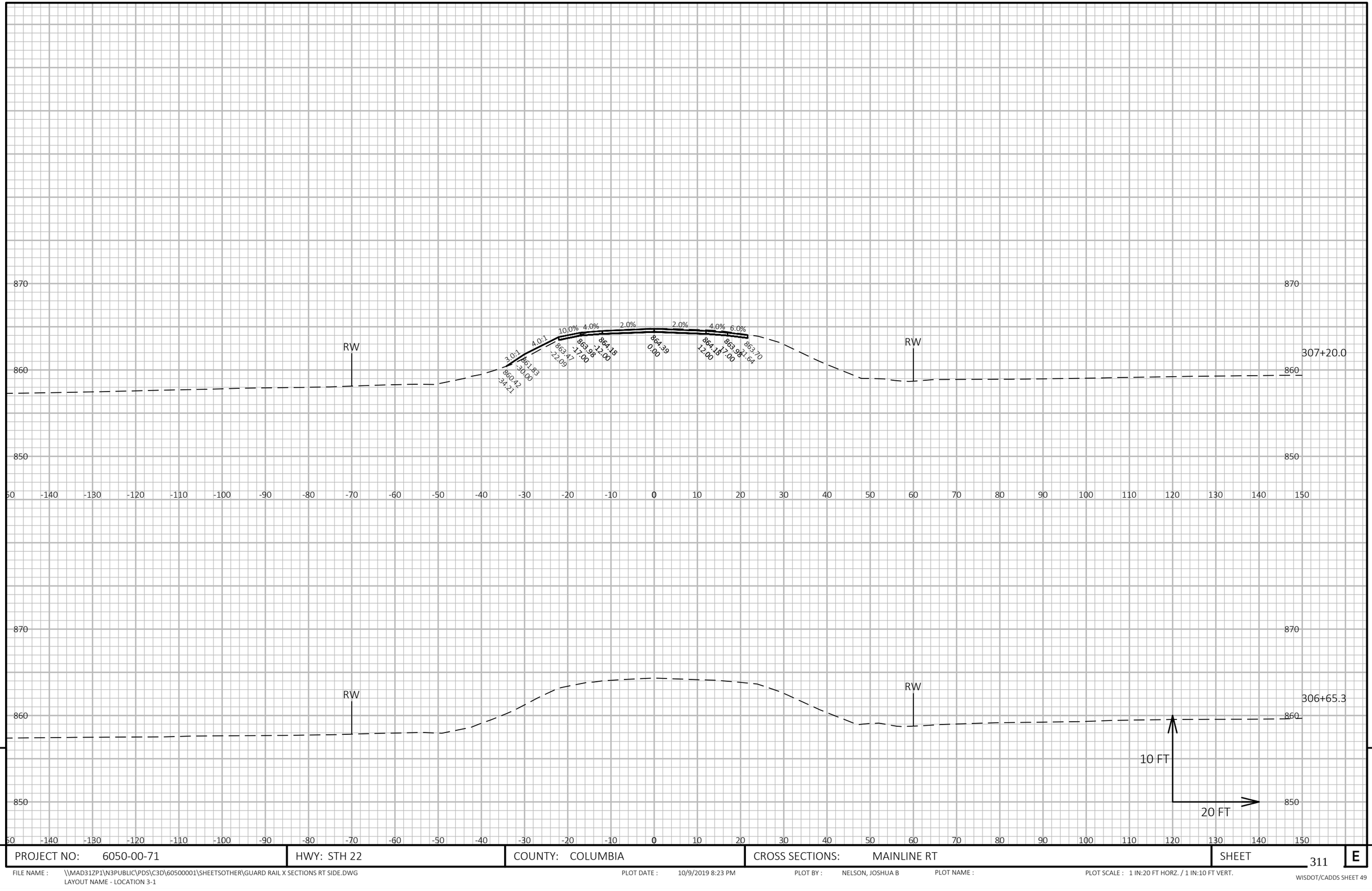
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 310	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 2-3

PLOT DATE : 10/9/2019 8:23 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

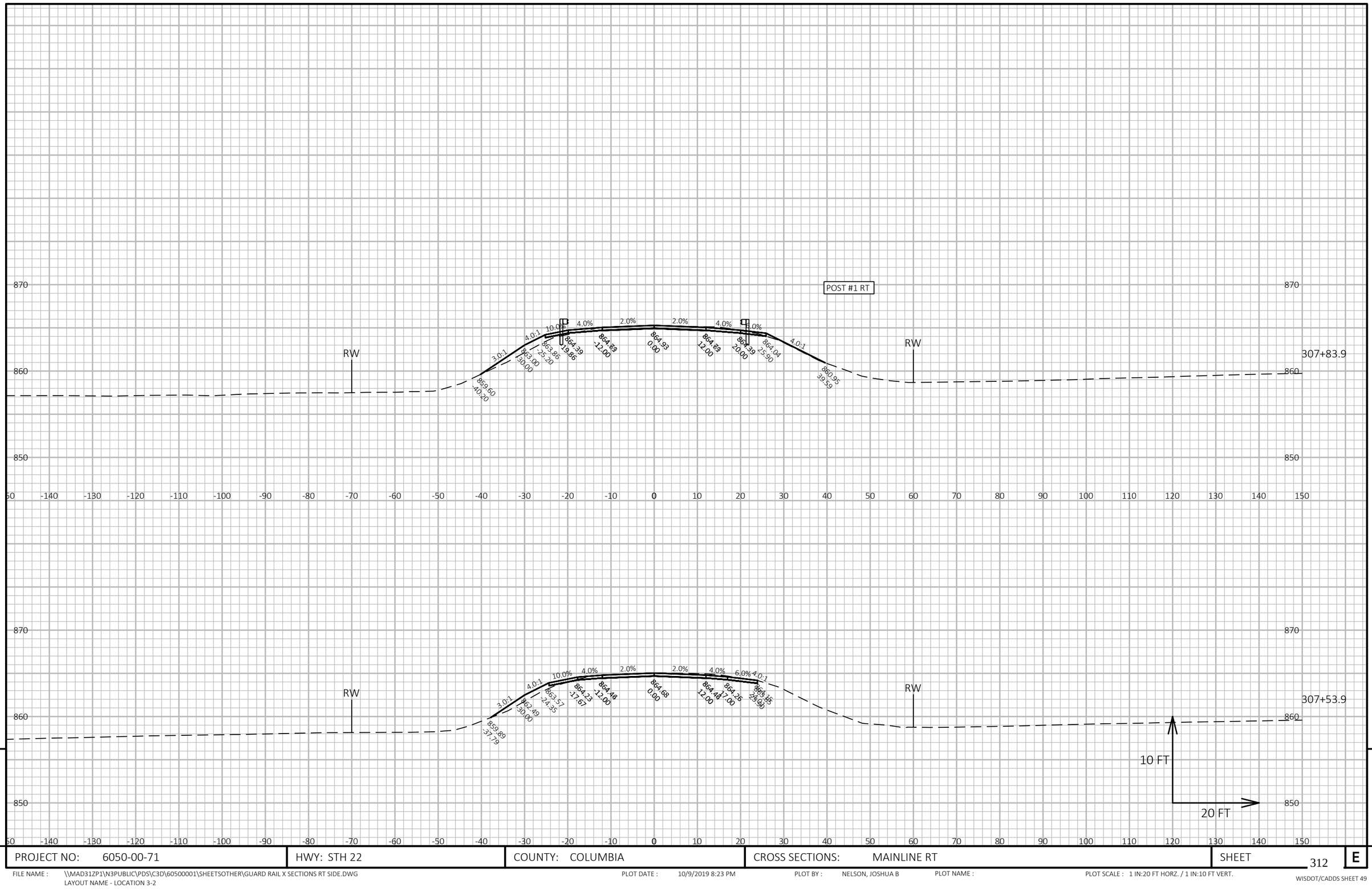
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 311	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 3-1

PLOT DATE : 10/9/2019 8:23 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

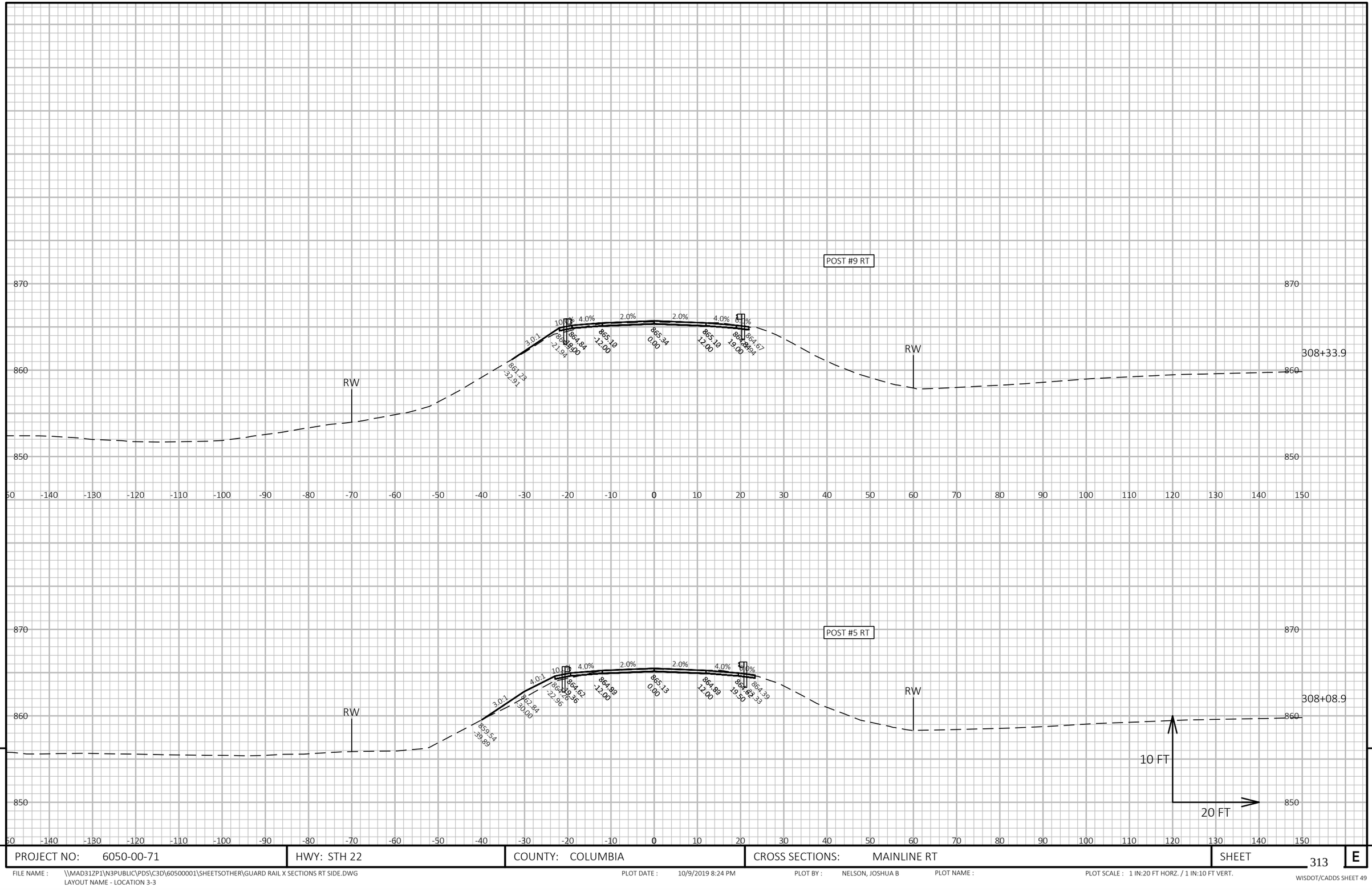


PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 312 E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 3-2

PLOT DATE : 10/9/2019 8:23 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

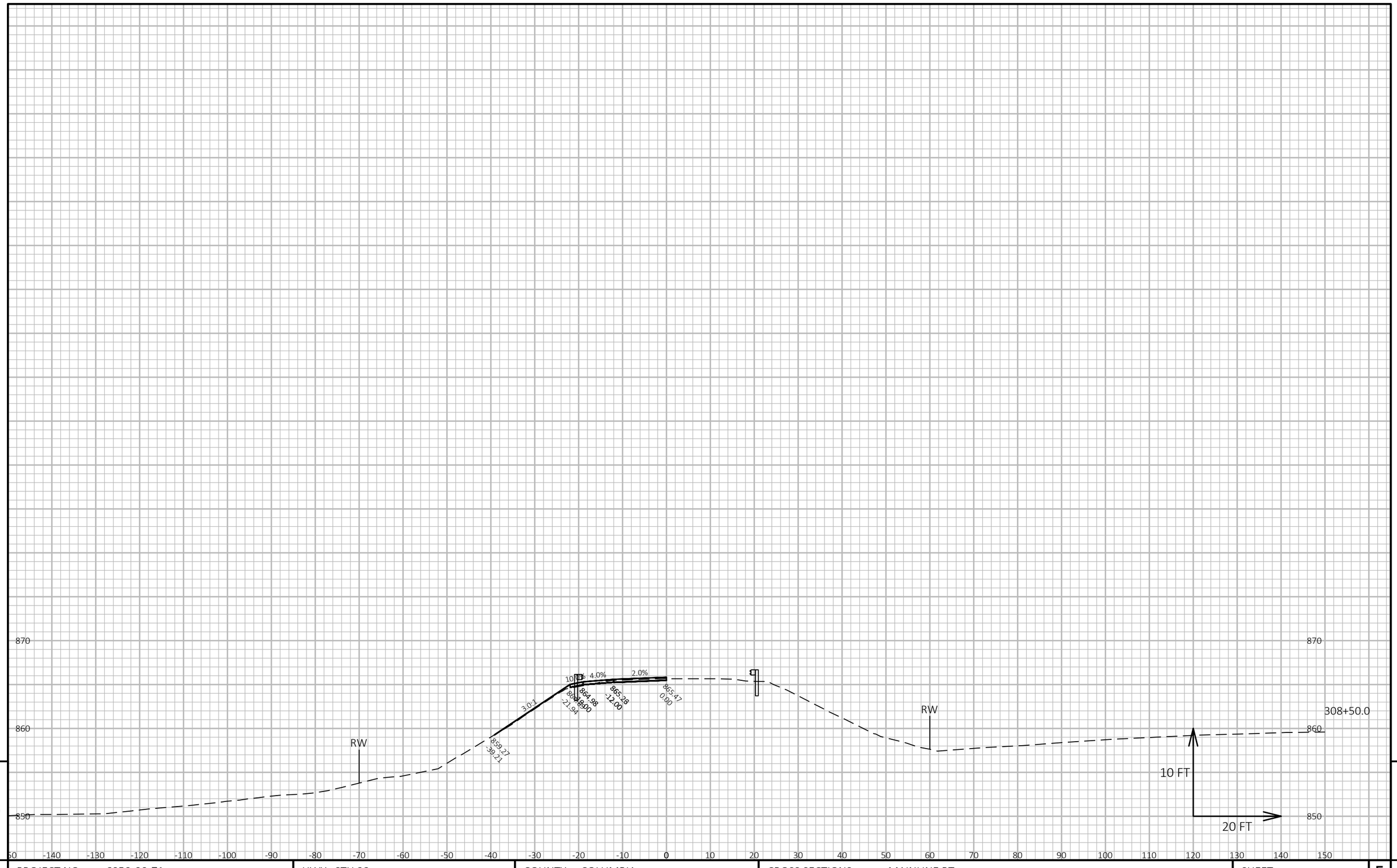
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 313	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 3-3

PLOT DATE : 10/9/2019 8:24 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



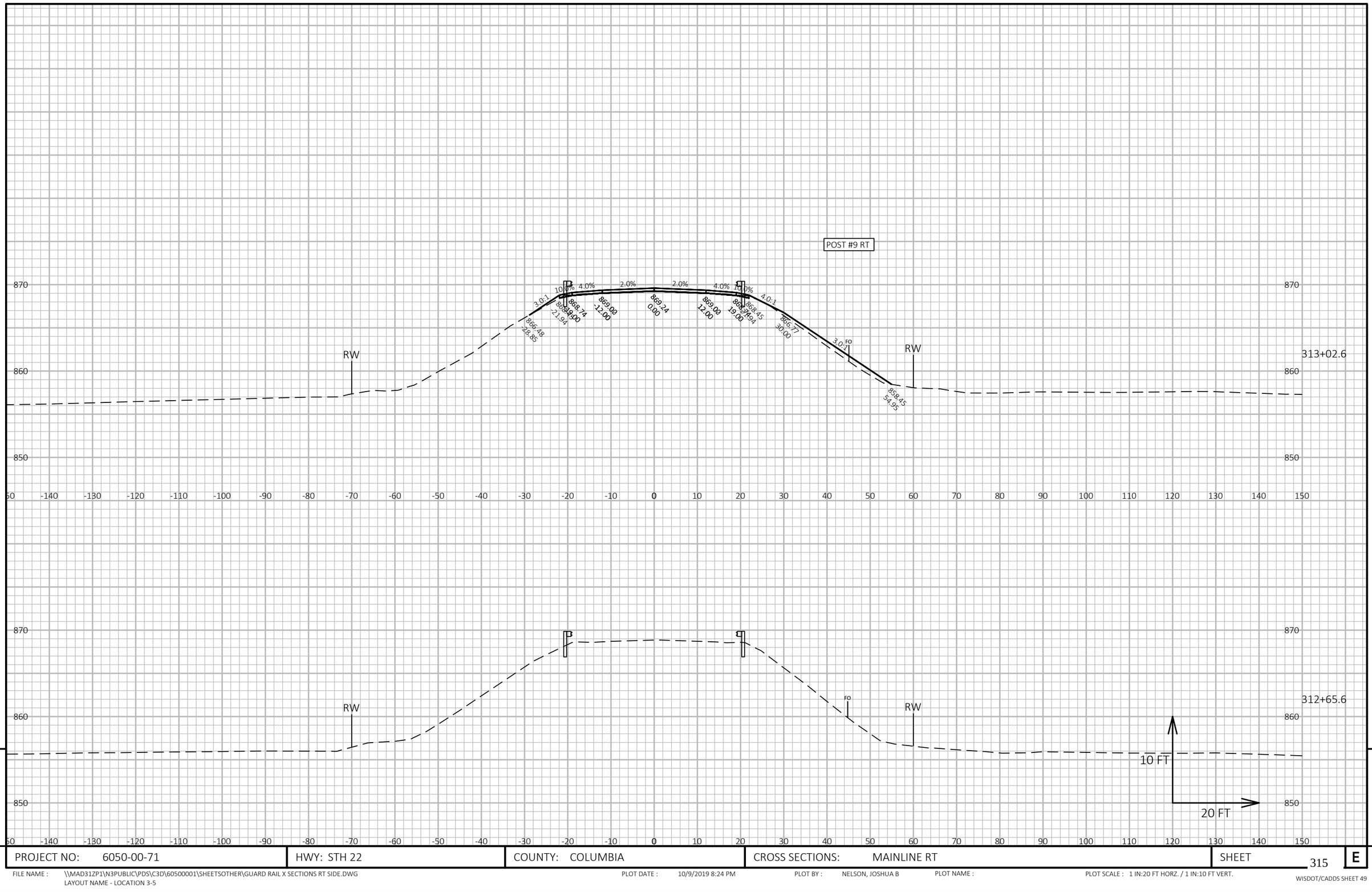
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 314	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 3-4

PLOT DATE : 10/9/2019 8:24 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



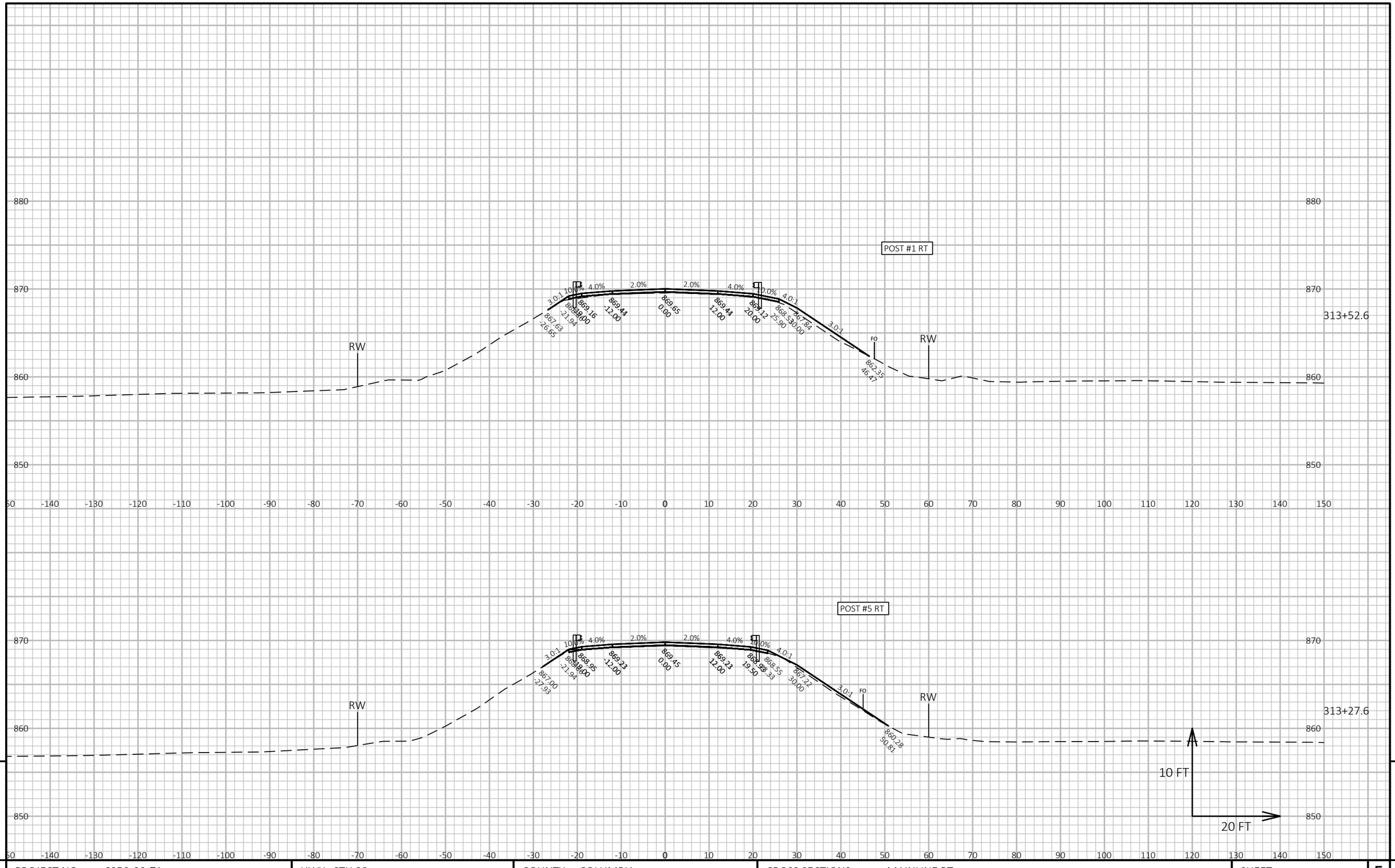
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 315	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 3-5

PLOT DATE : 10/9/2019 8:24 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

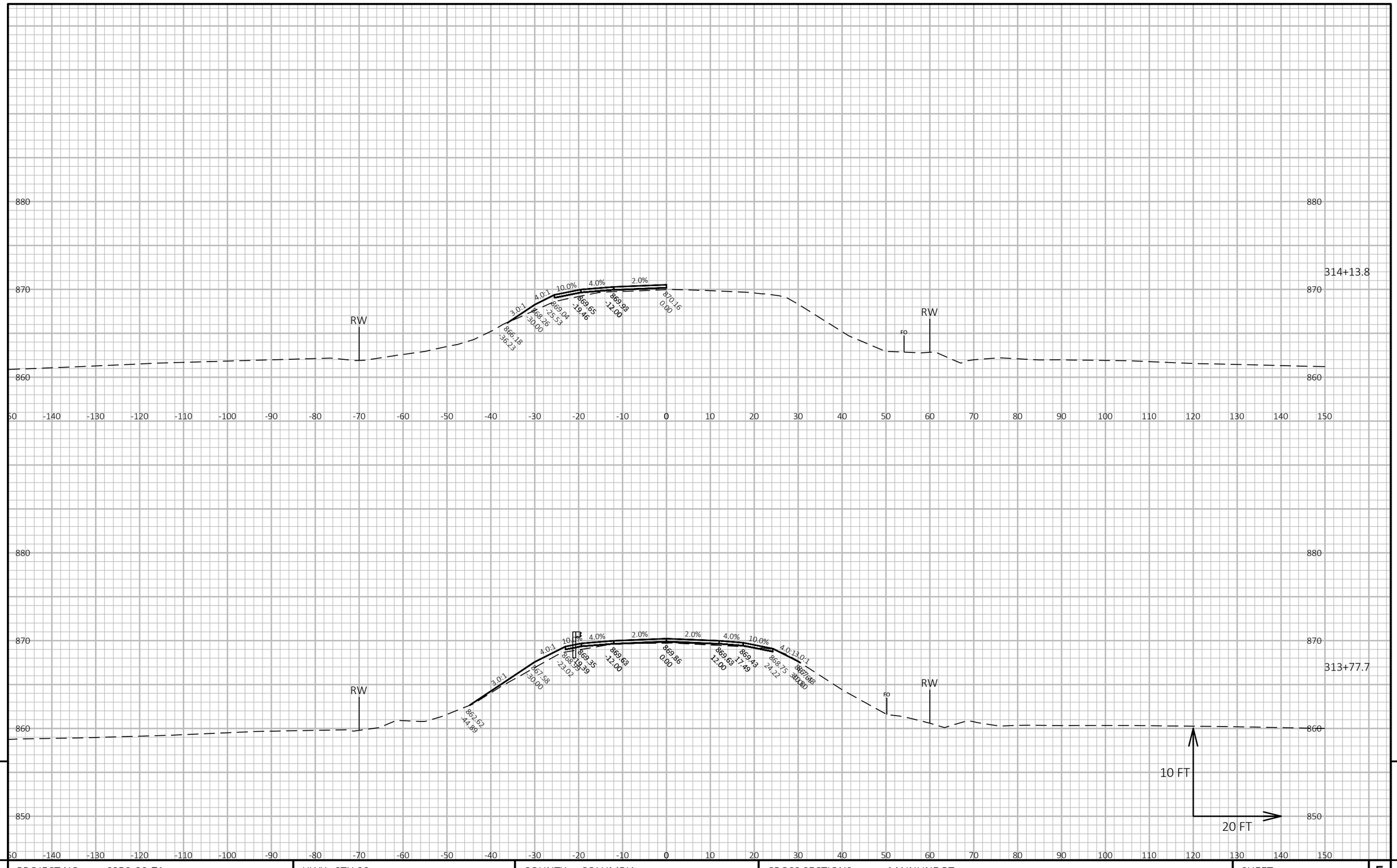
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 316	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 3-6

PLOT DATE : 10/9/2019 8:24 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

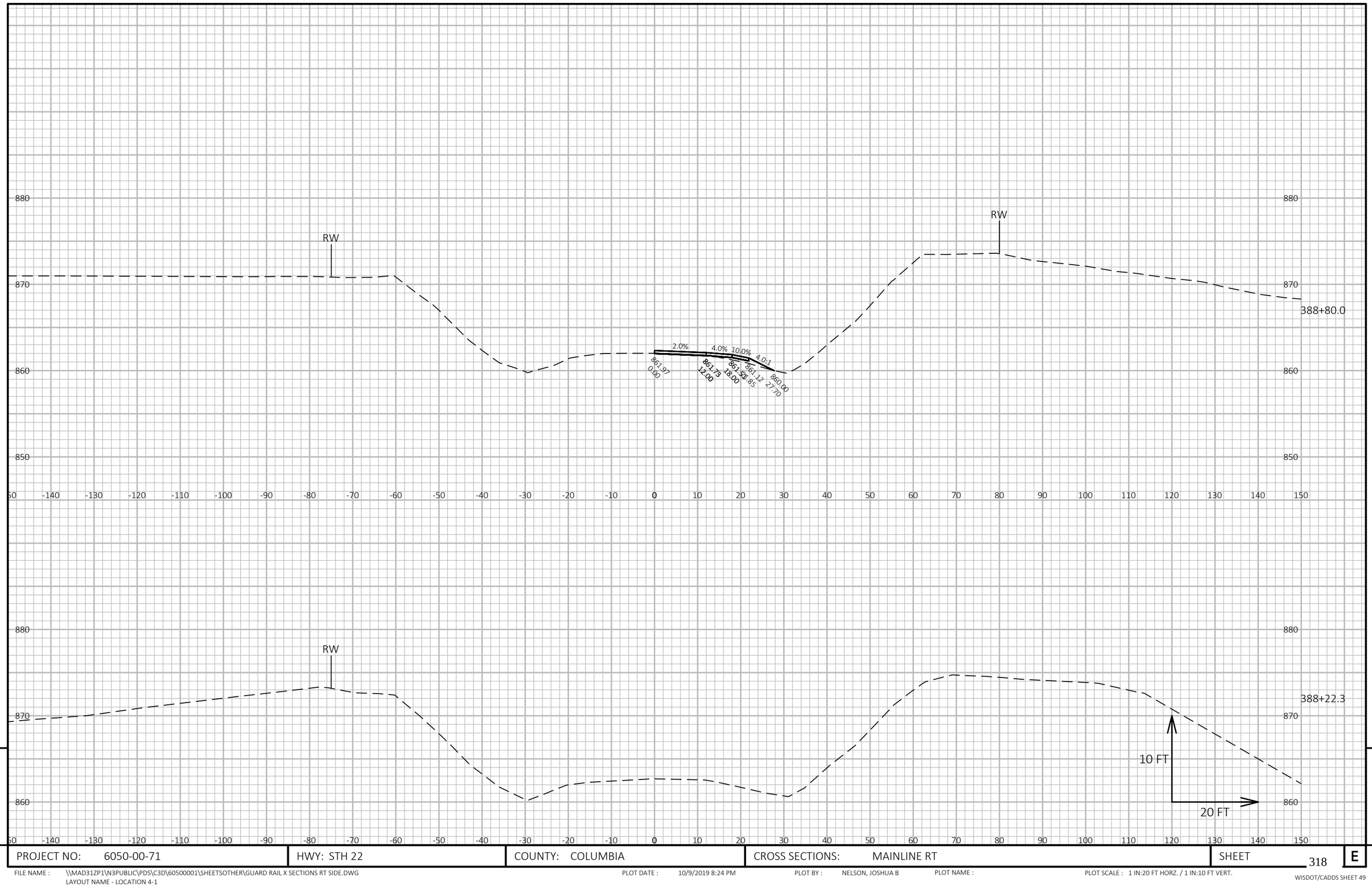
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 317	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 3-7

PLOT DATE : 10/9/2019 8:24 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

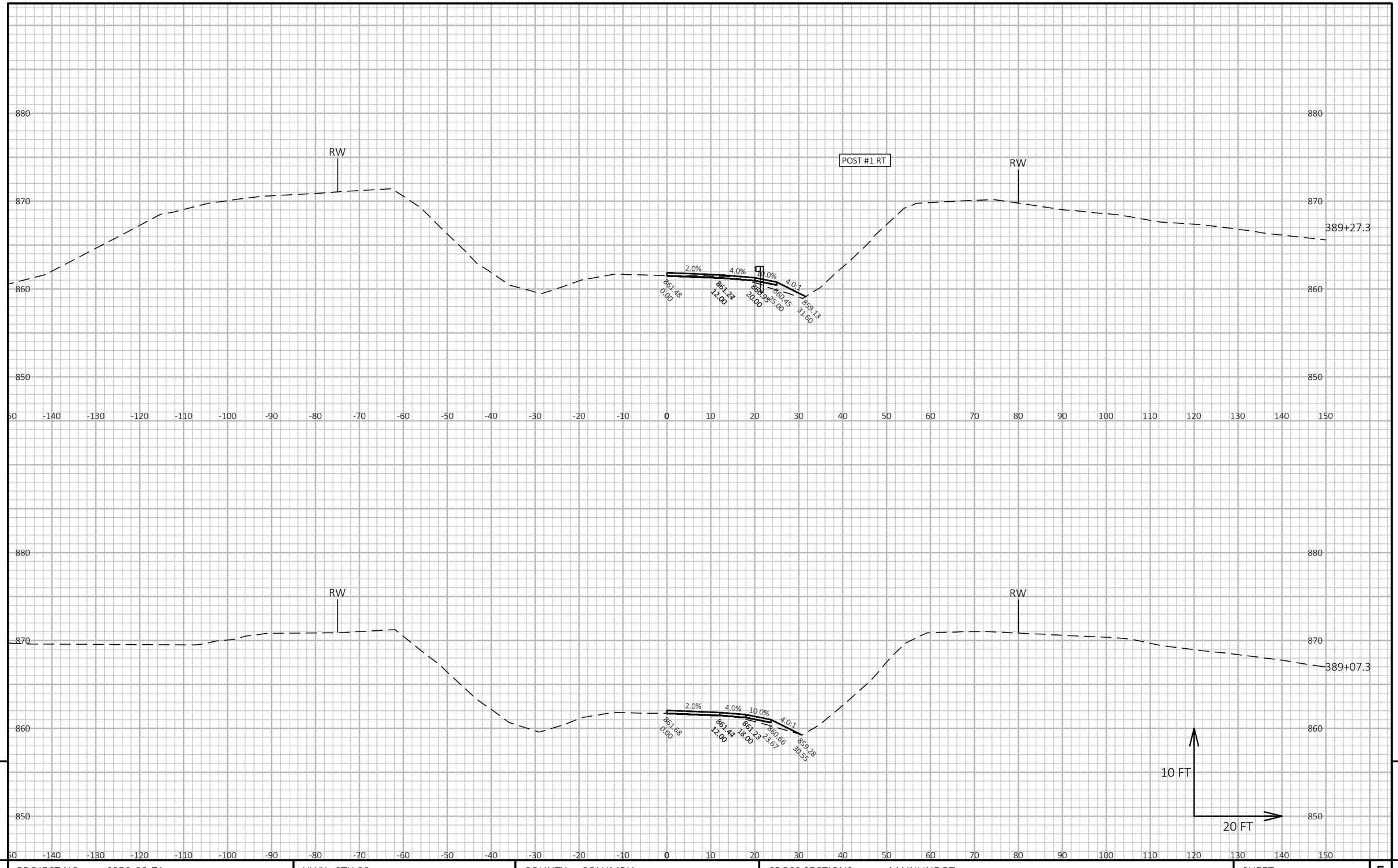
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 318	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 4-1

PLOT DATE : 10/9/2019 8:24 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



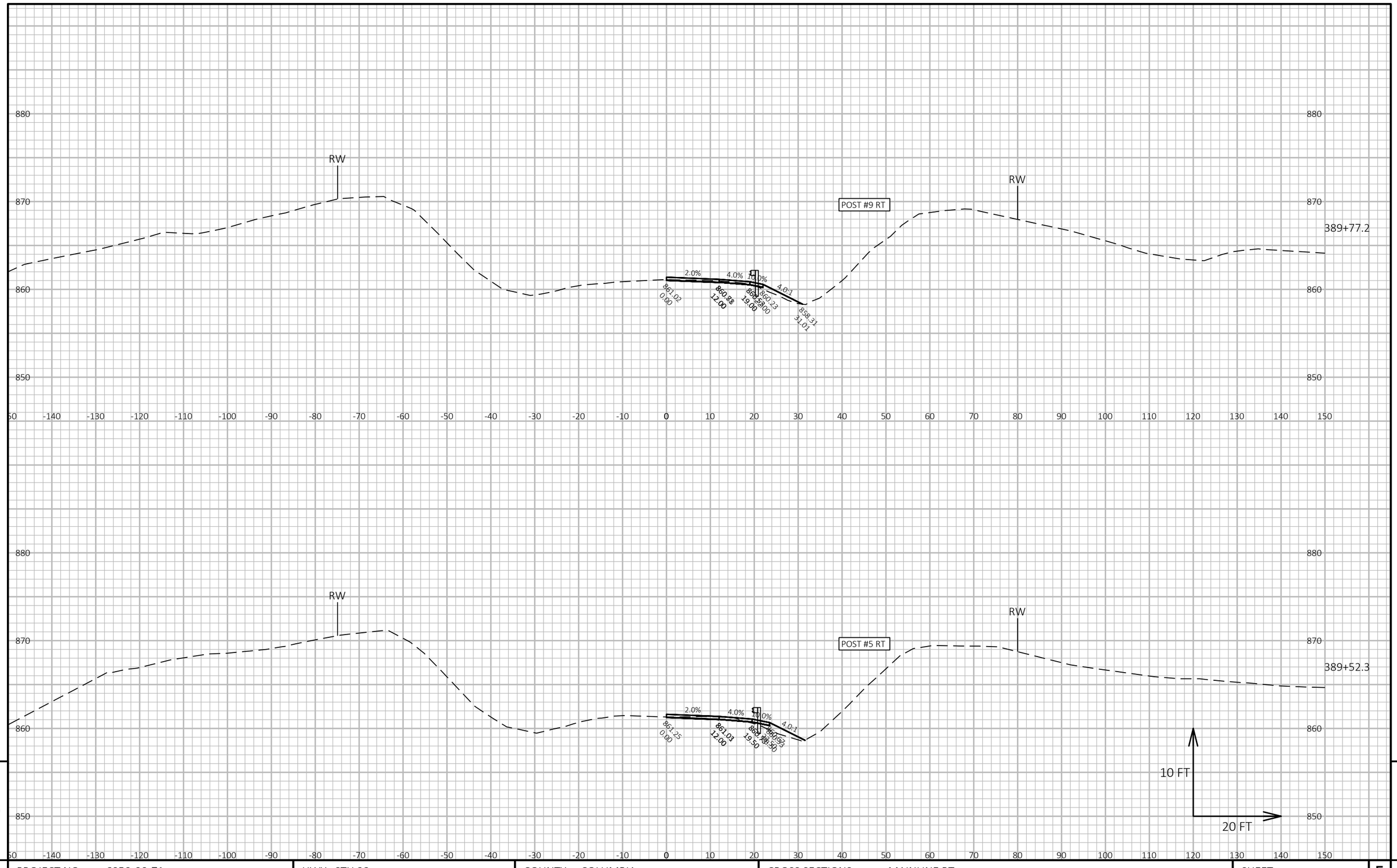
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 319	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 4-2

PLOT DATE : 10/9/2019 8:24 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

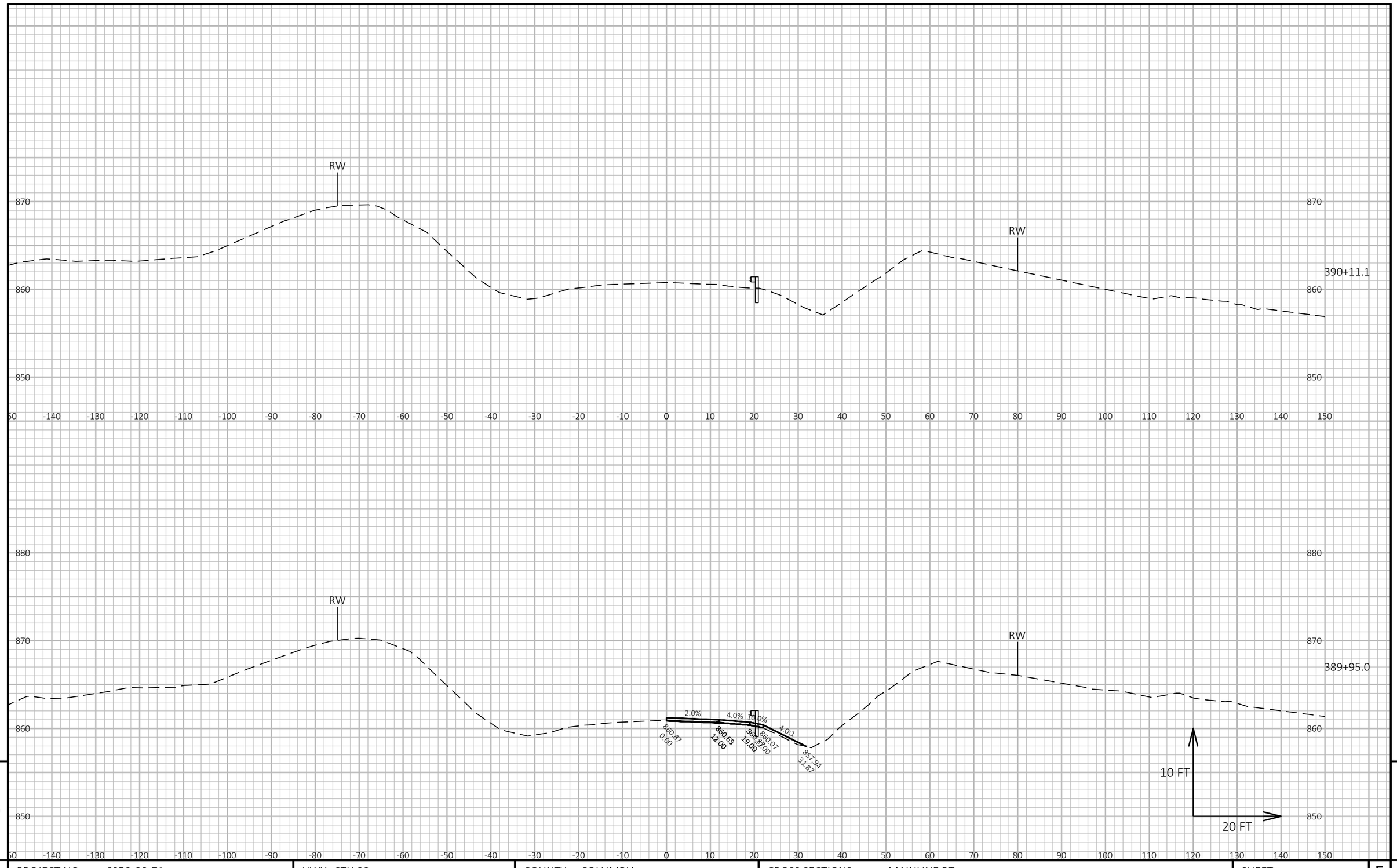
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 320	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 4-3

PLOT DATE : 10/9/2019 8:25 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

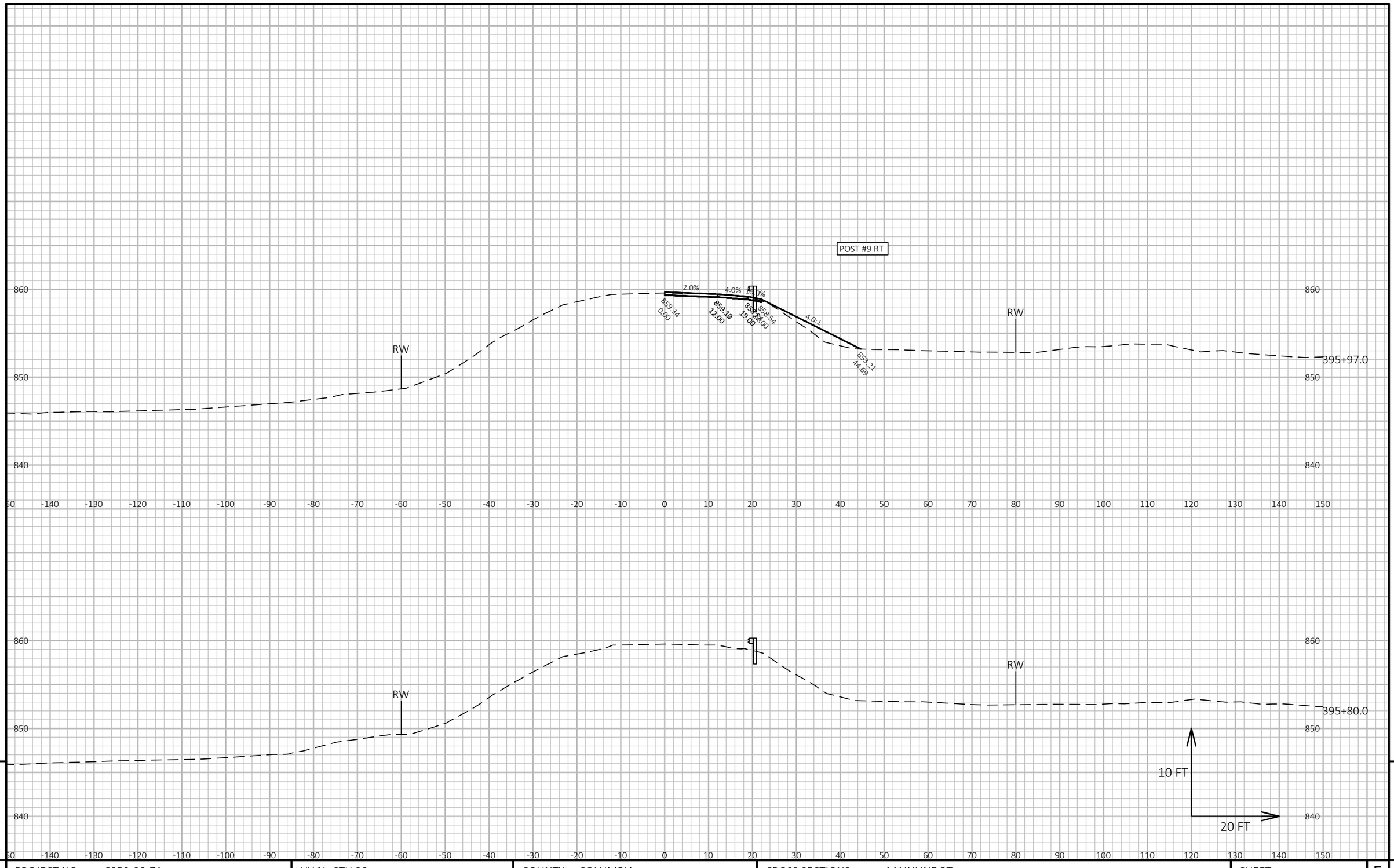
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 321	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 4-4

PLOT DATE : 10/9/2019 8:25 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

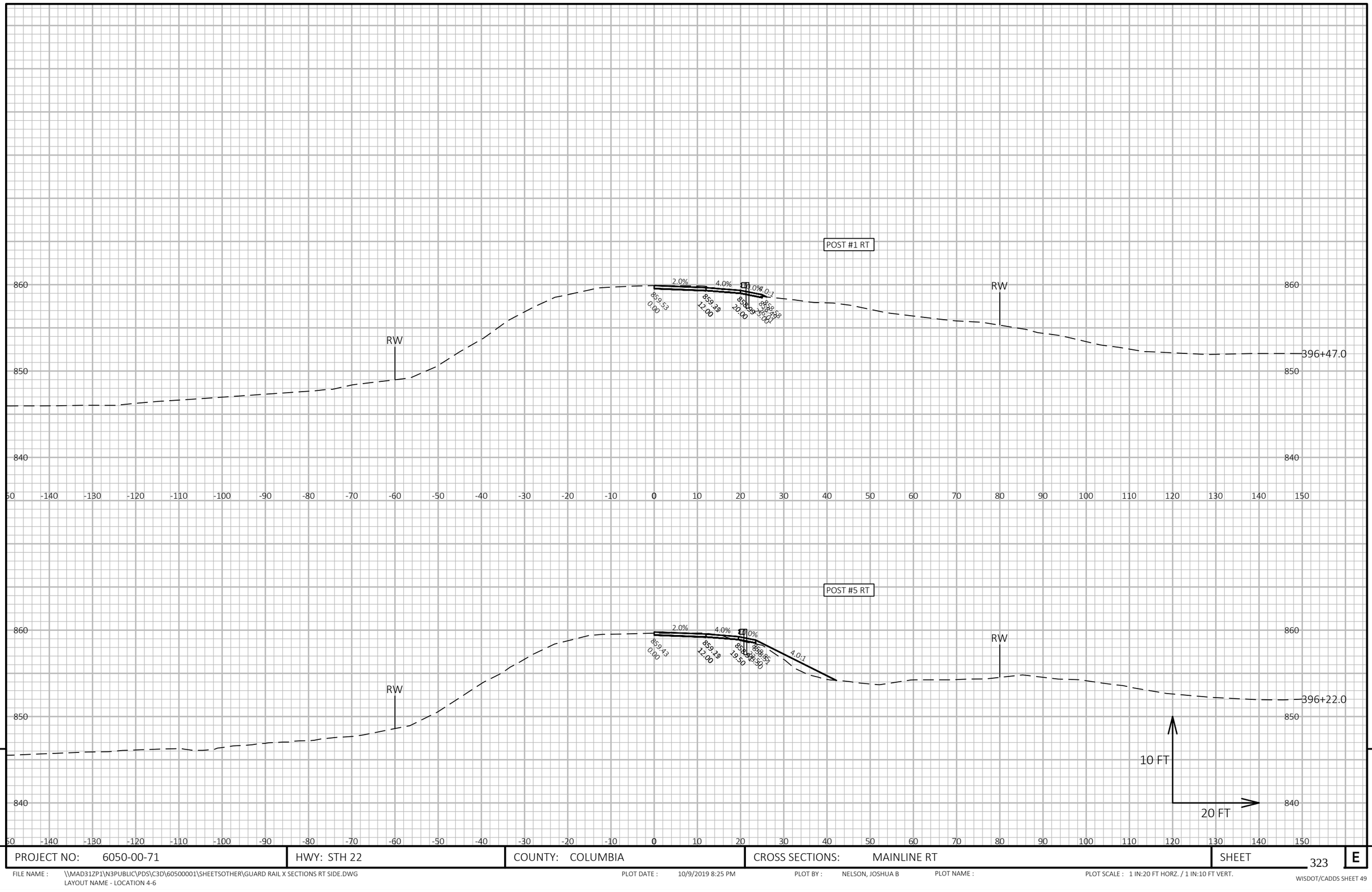
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 322	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 4-5

PLOT DATE : 10/9/2019 8:25 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

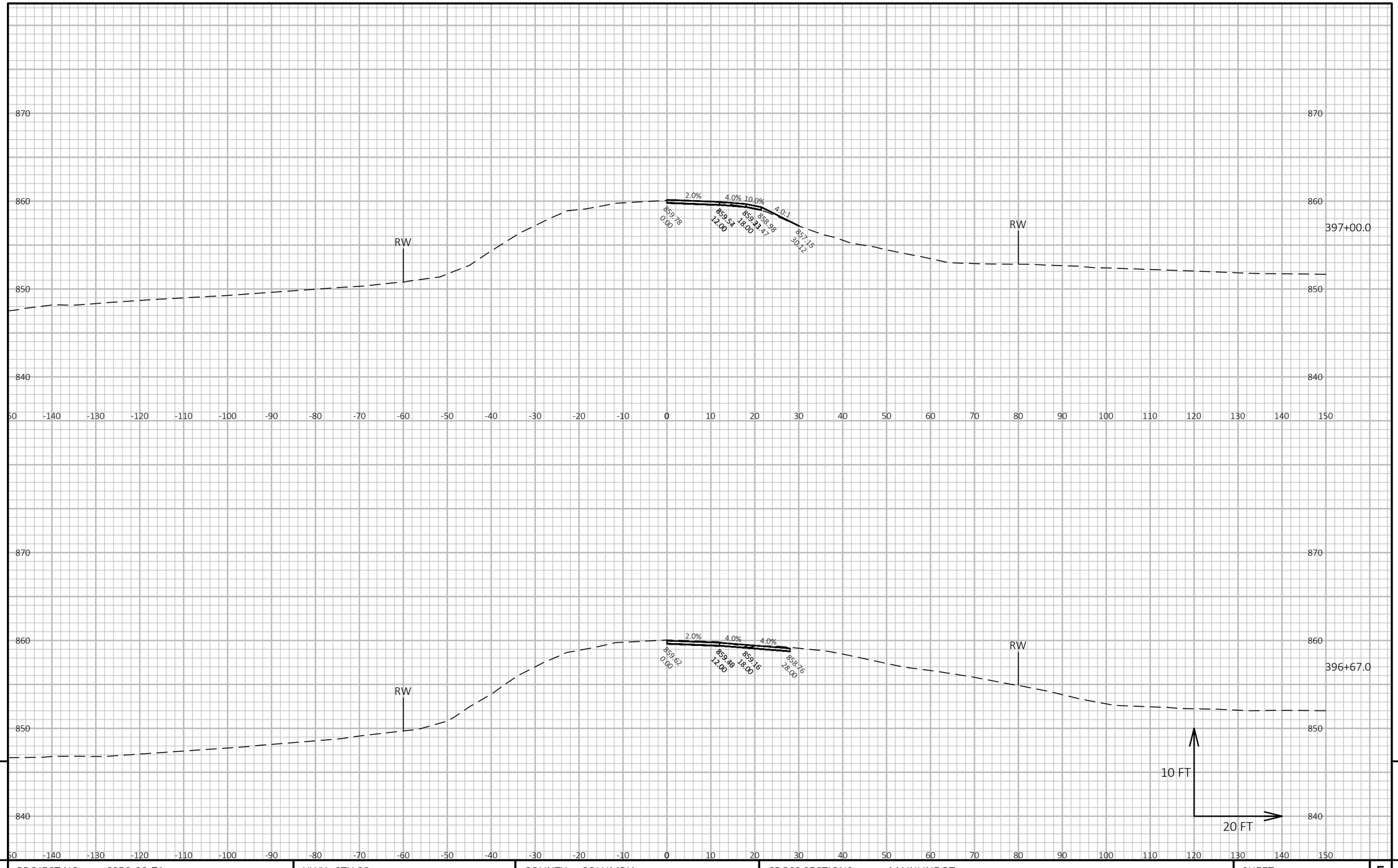
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 323	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 4-6

PLOT DATE : 10/9/2019 8:25 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

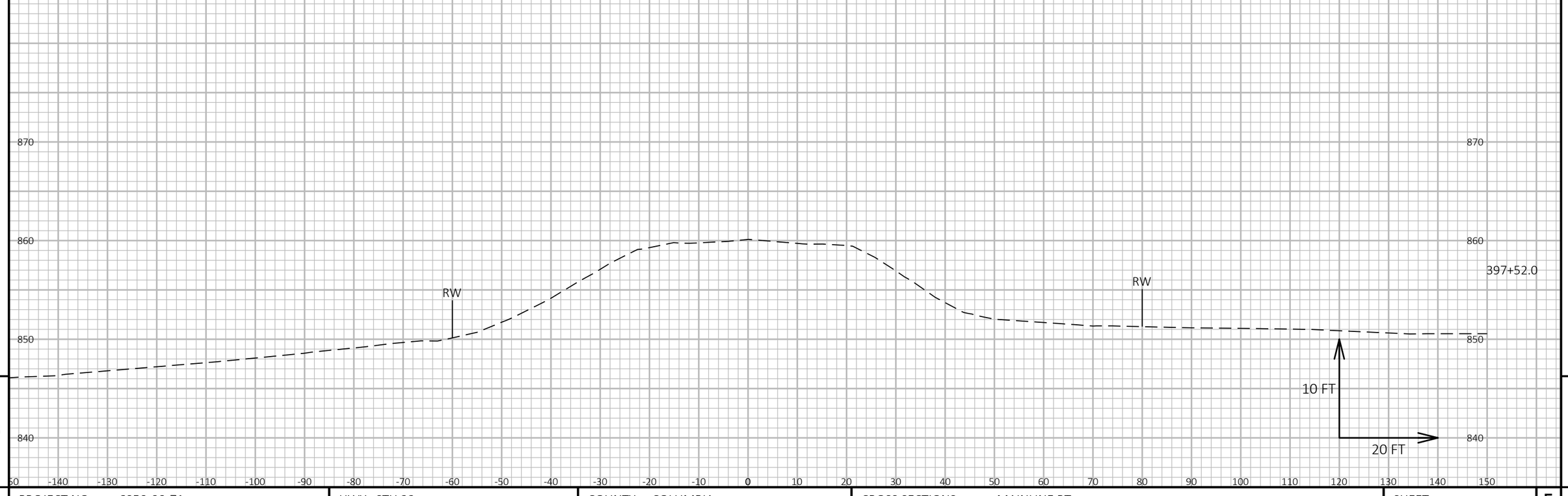


PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 324	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 4-7

PLOT DATE : 10/9/2019 8:25 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

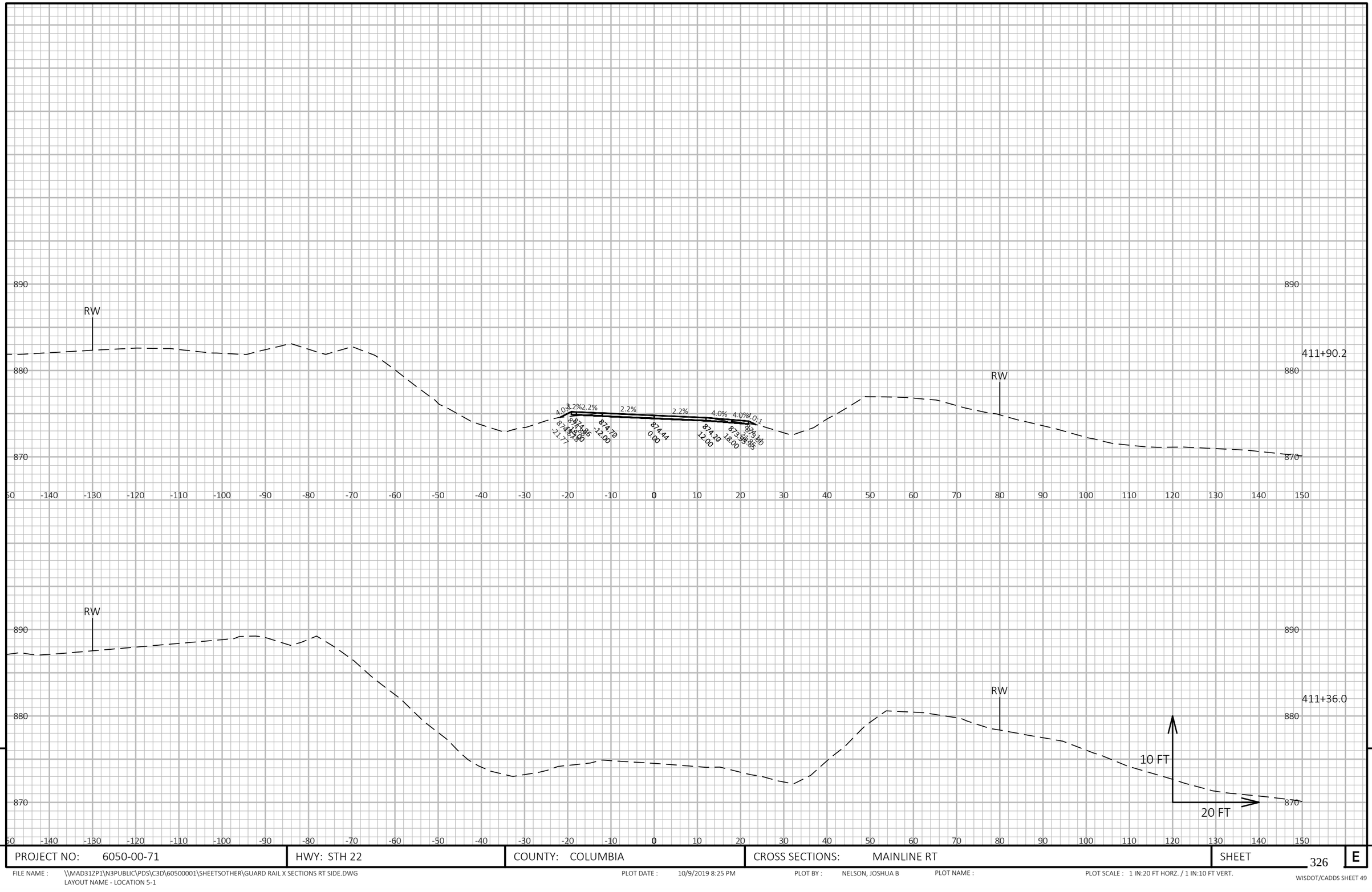
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 325	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 4-8

PLOT DATE : 10/9/2019 8:25 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

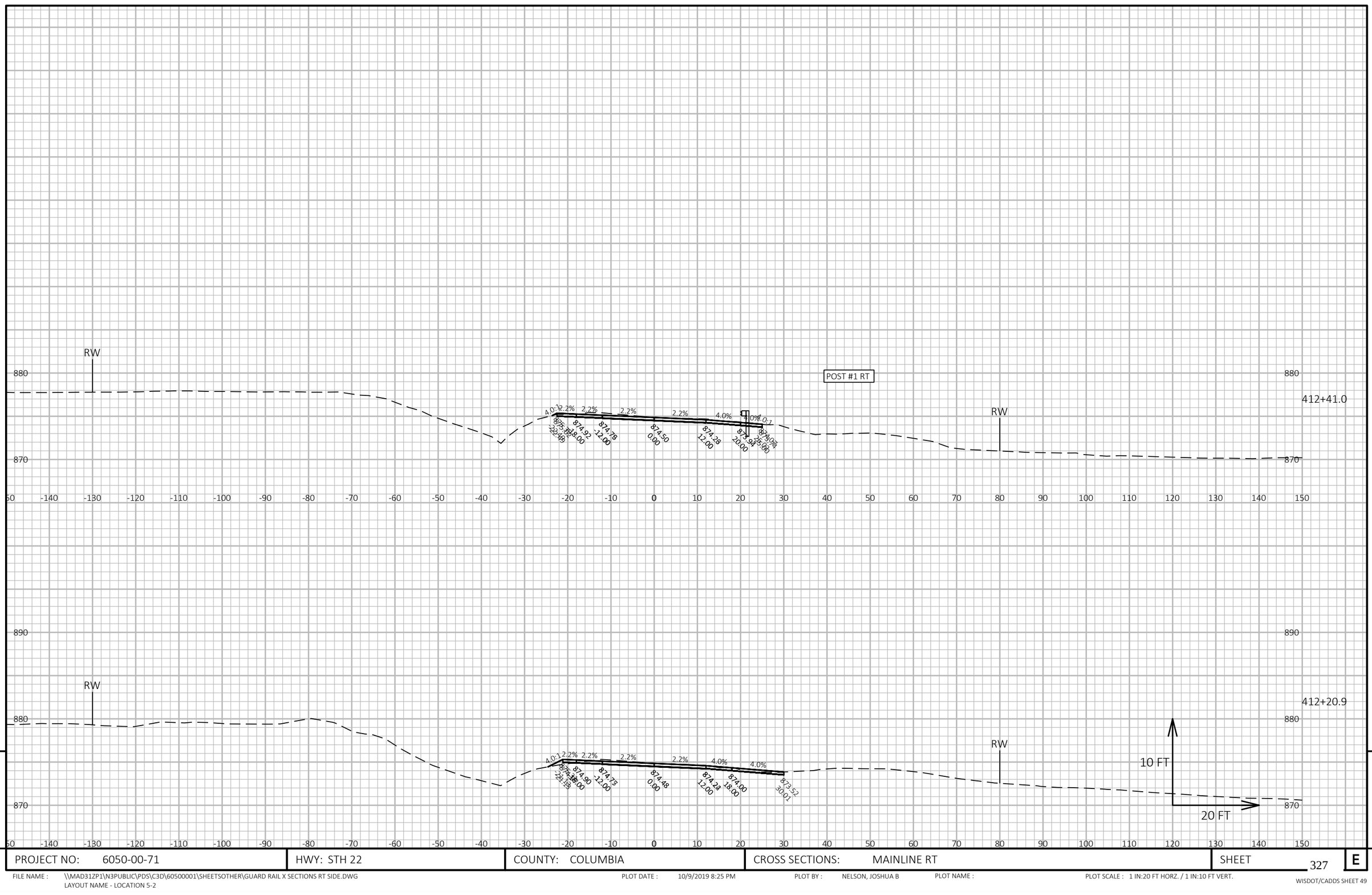
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 326	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 5-1

PLOT DATE : 10/9/2019 8:25 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

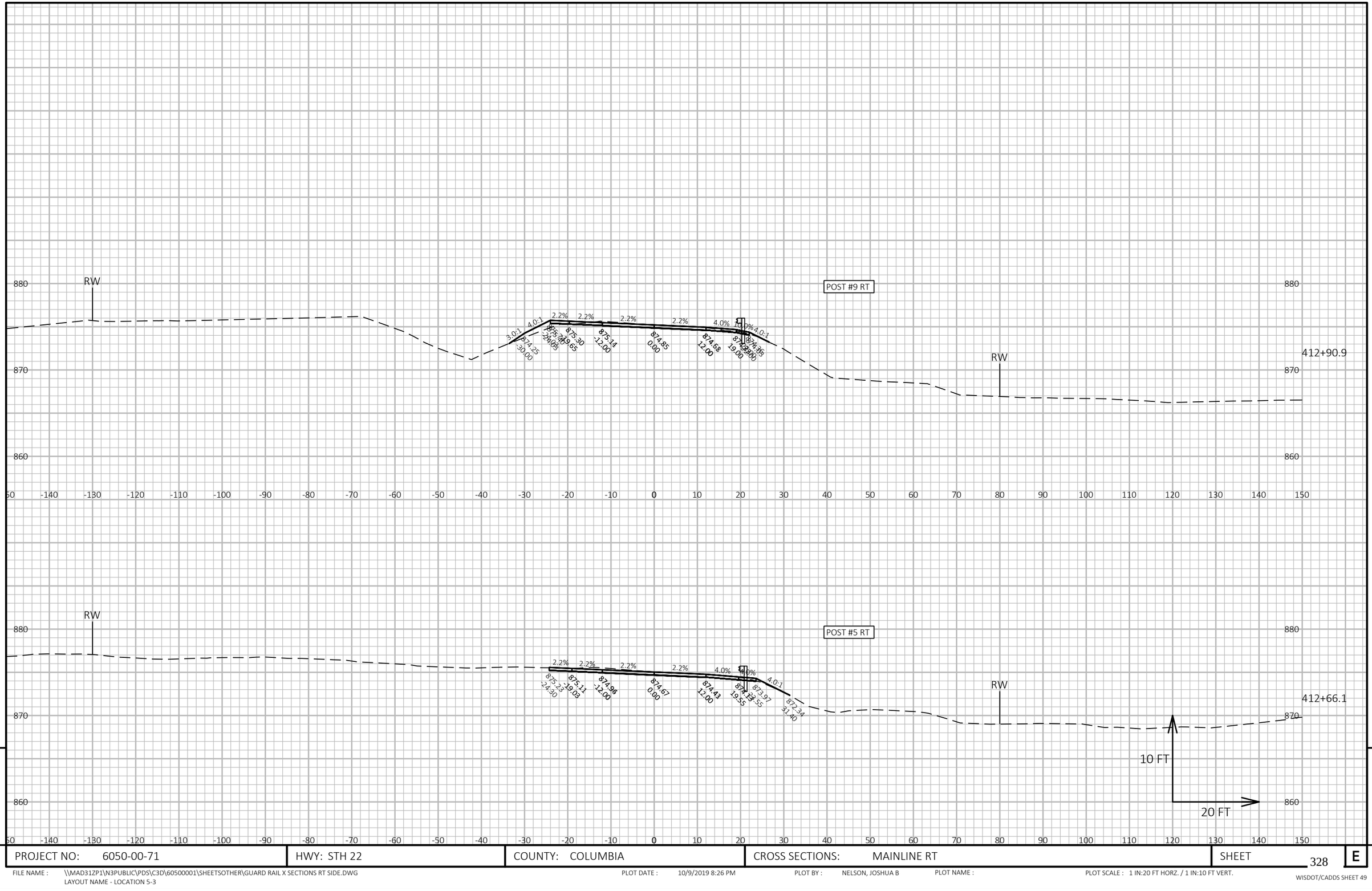
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 327	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 5-2

PLOT DATE : 10/9/2019 8:25 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

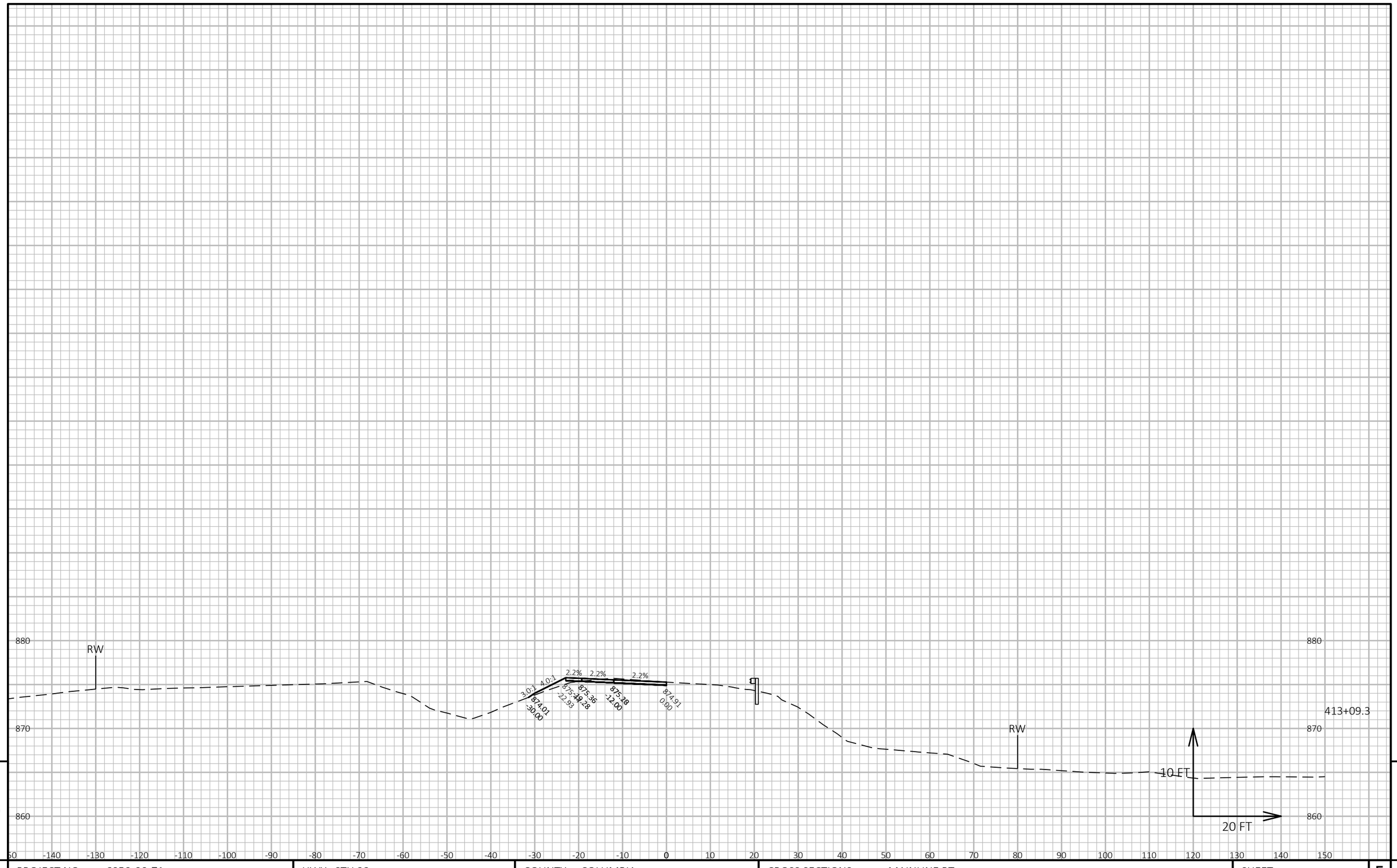
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 328	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 5-3

PLOT DATE : 10/9/2019 8:26 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 329	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 5-4

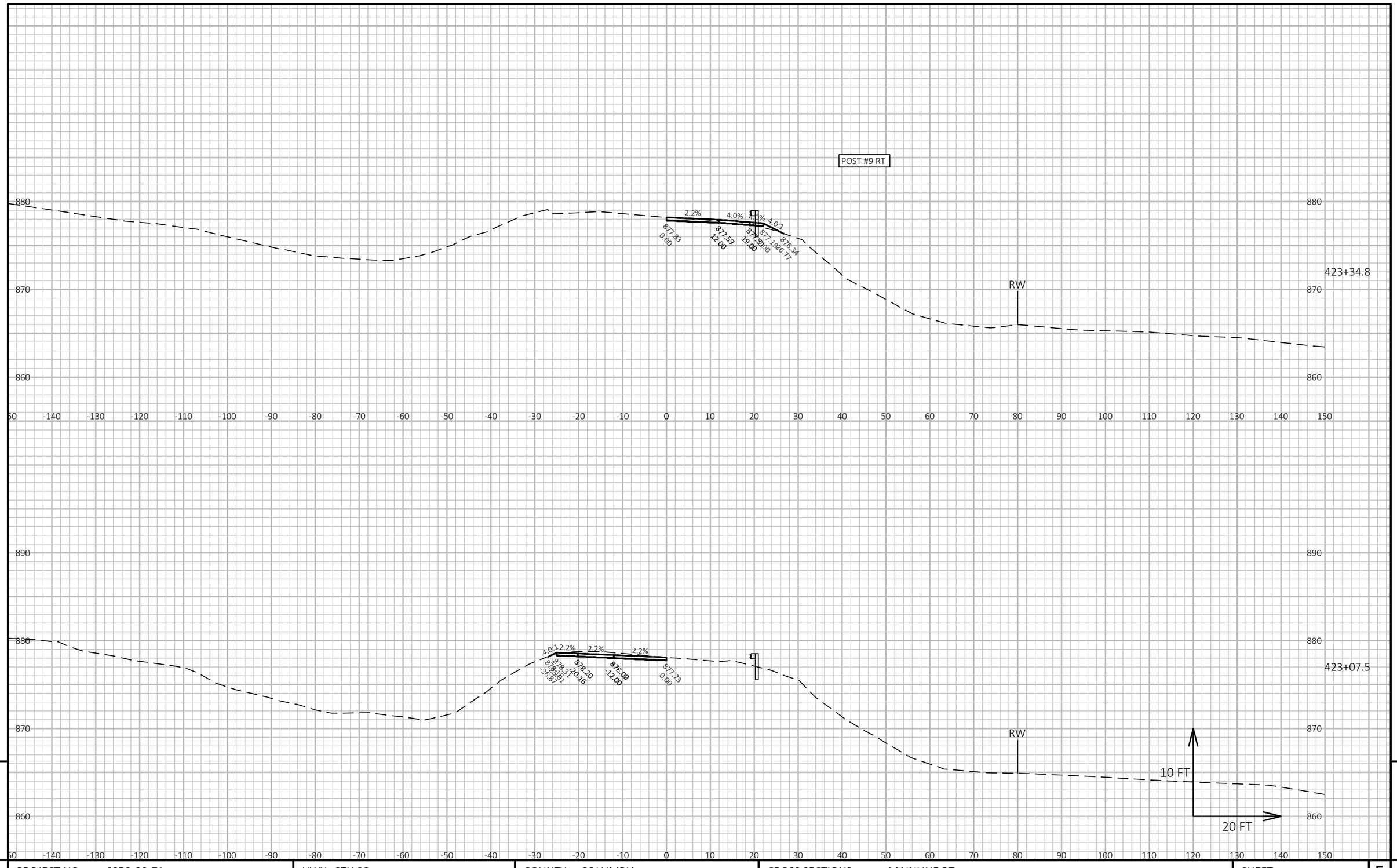
PLOT DATE : 10/9/2019 8:26 PM

PLOT BY : NELSON, JOSHUA B

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



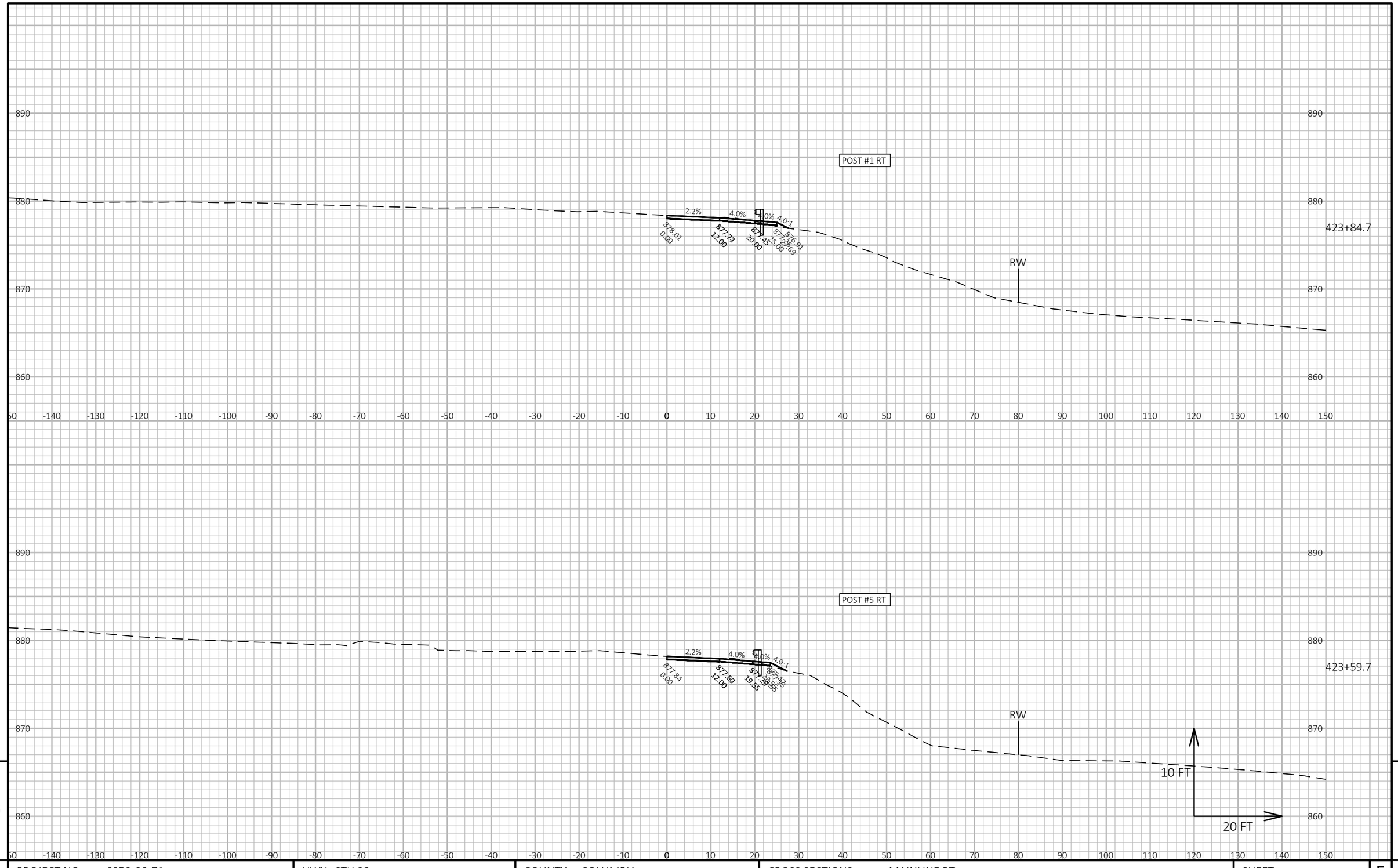
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9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 330	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - location 5-5

PLOT DATE : 10/9/2019 8:26 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

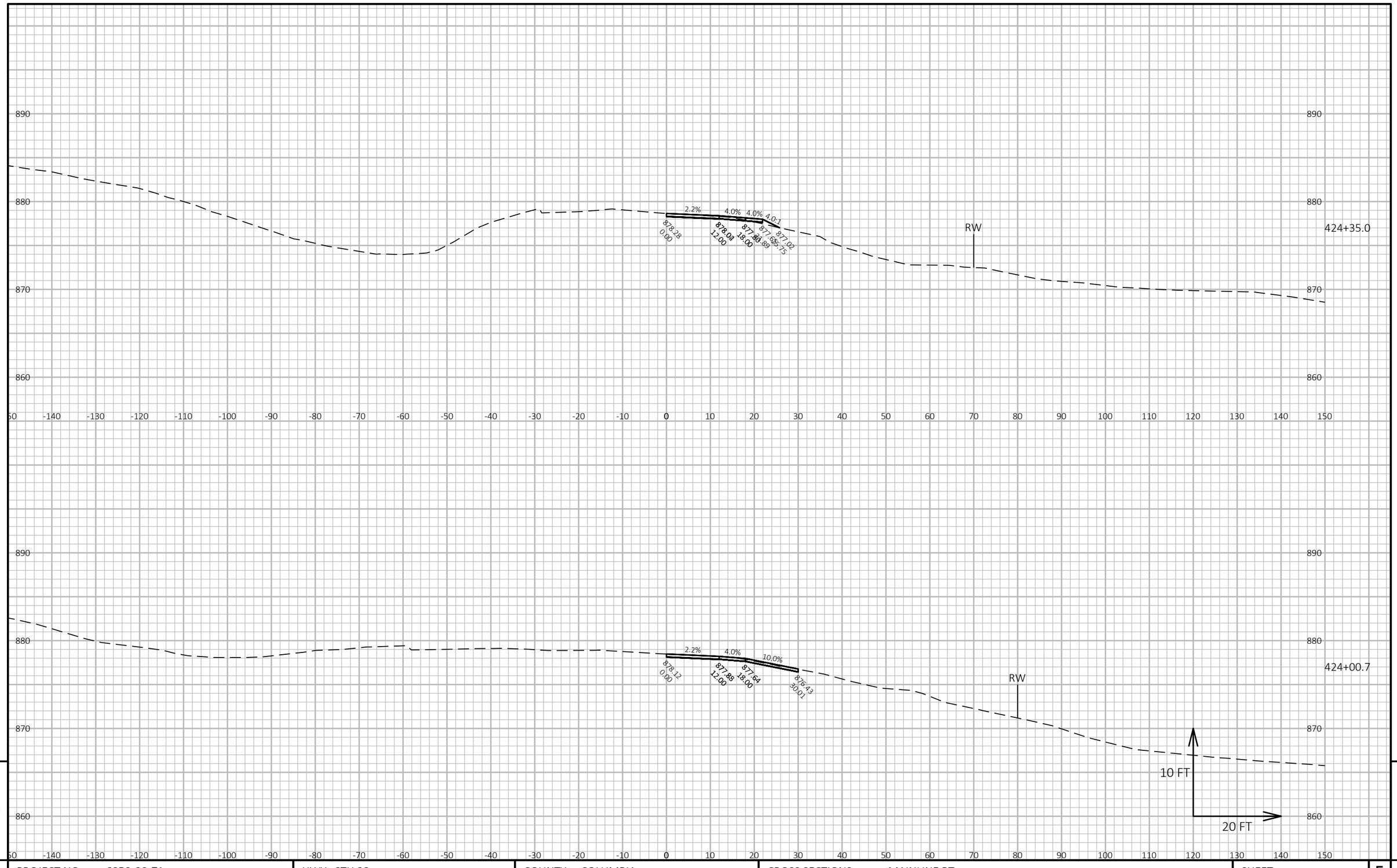
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 331	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - location 5-6

PLOT DATE : 10/9/2019 8:26 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 332	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - location 5-7

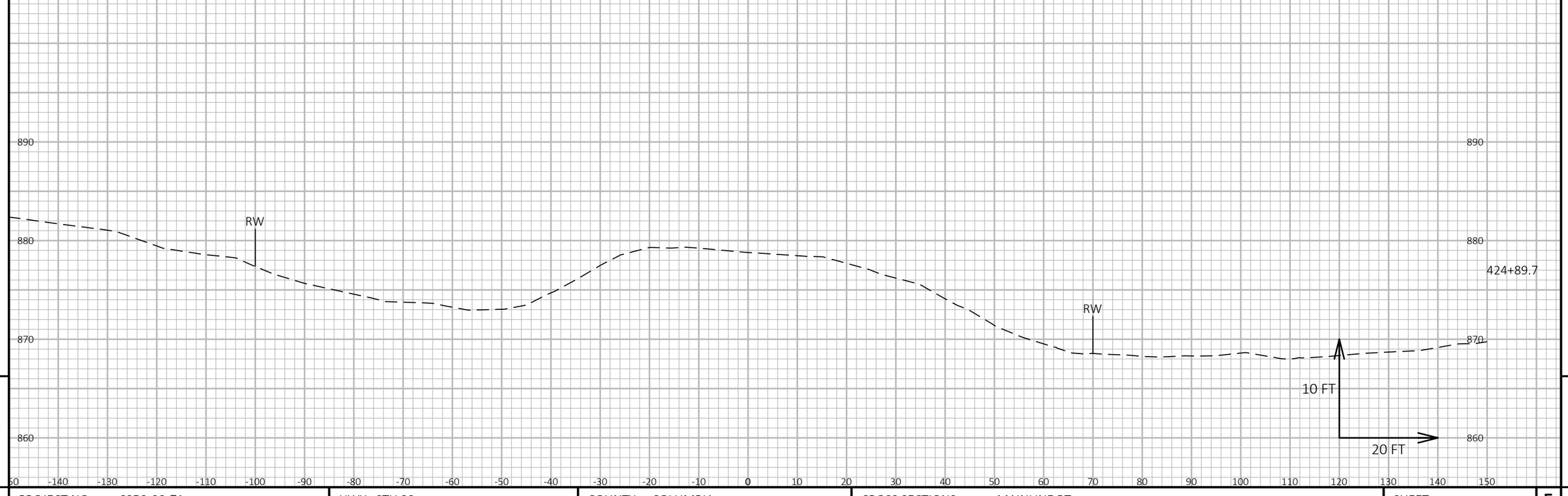
PLOT DATE : 10/9/2019 8:26 PM

PLOT BY : NELSON, JOSHUA B

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

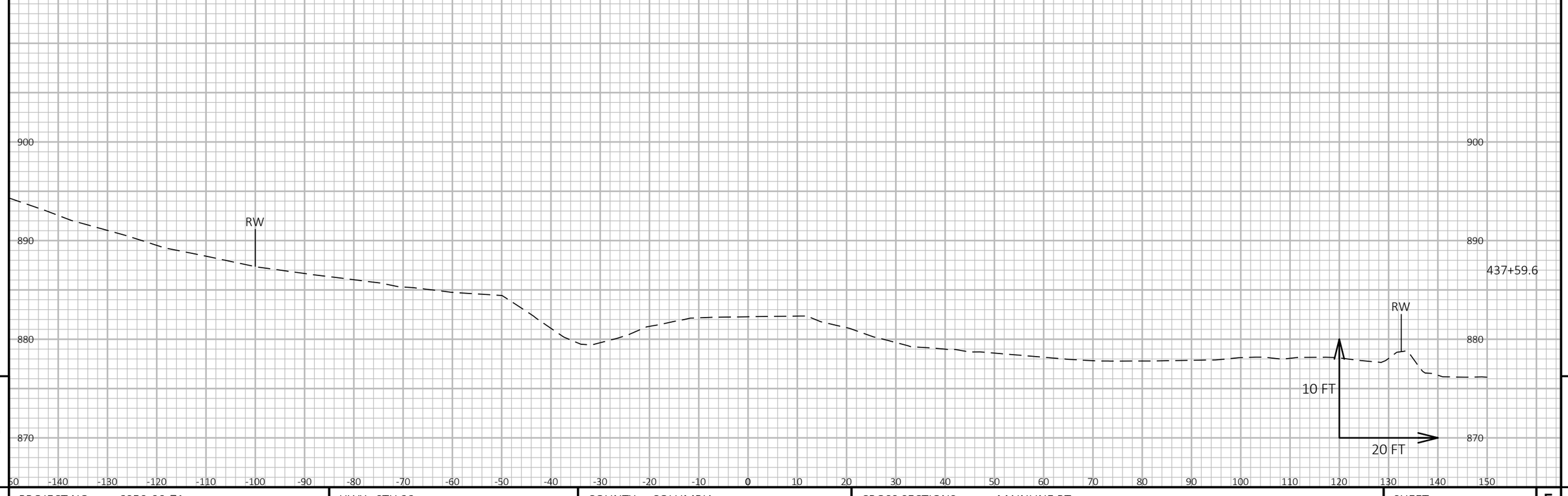
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 333	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - location 5-8

PLOT DATE : 10/9/2019 8:26 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

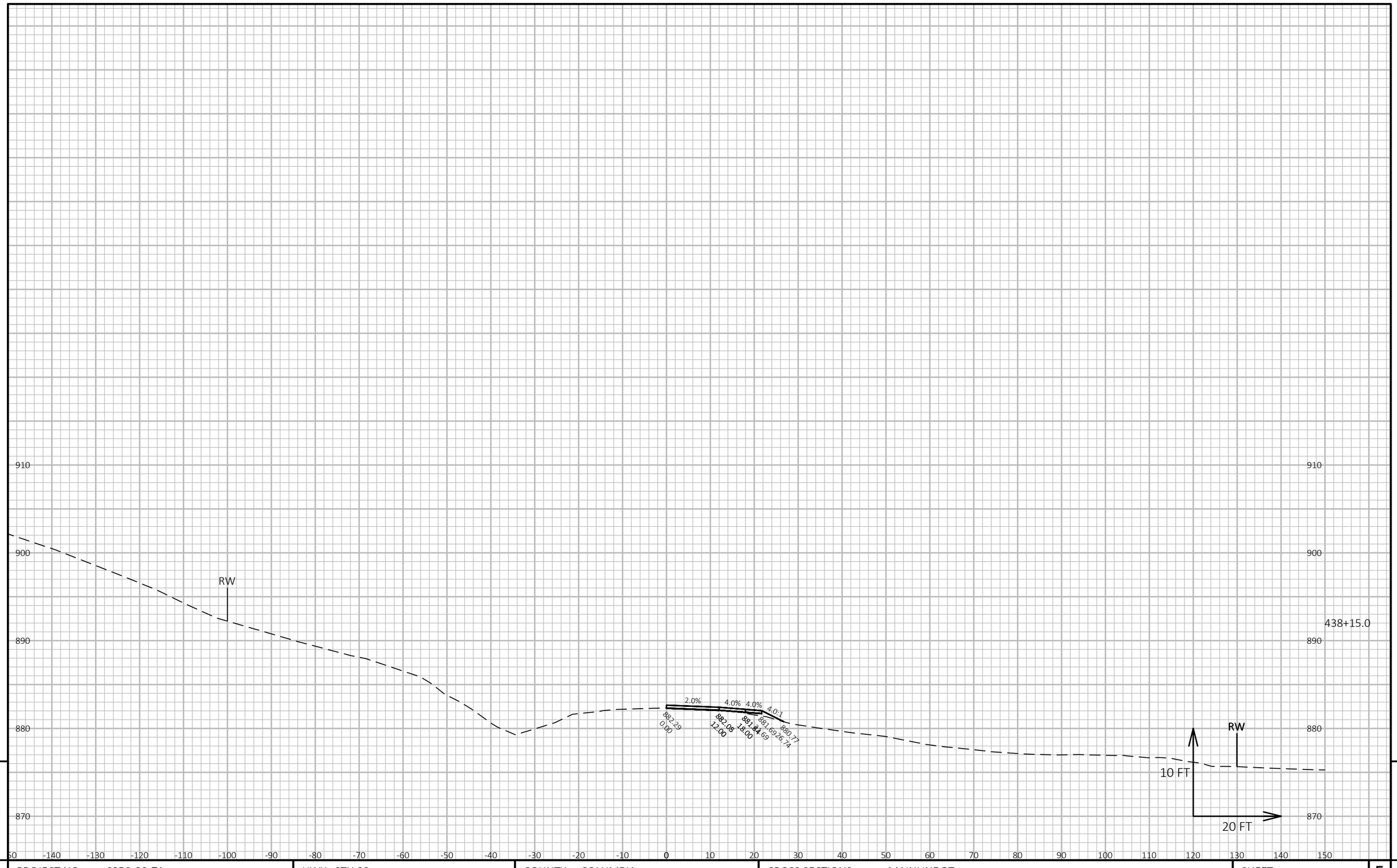
9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 334	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 6-1

PLOT DATE : 10/9/2019 8:26 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

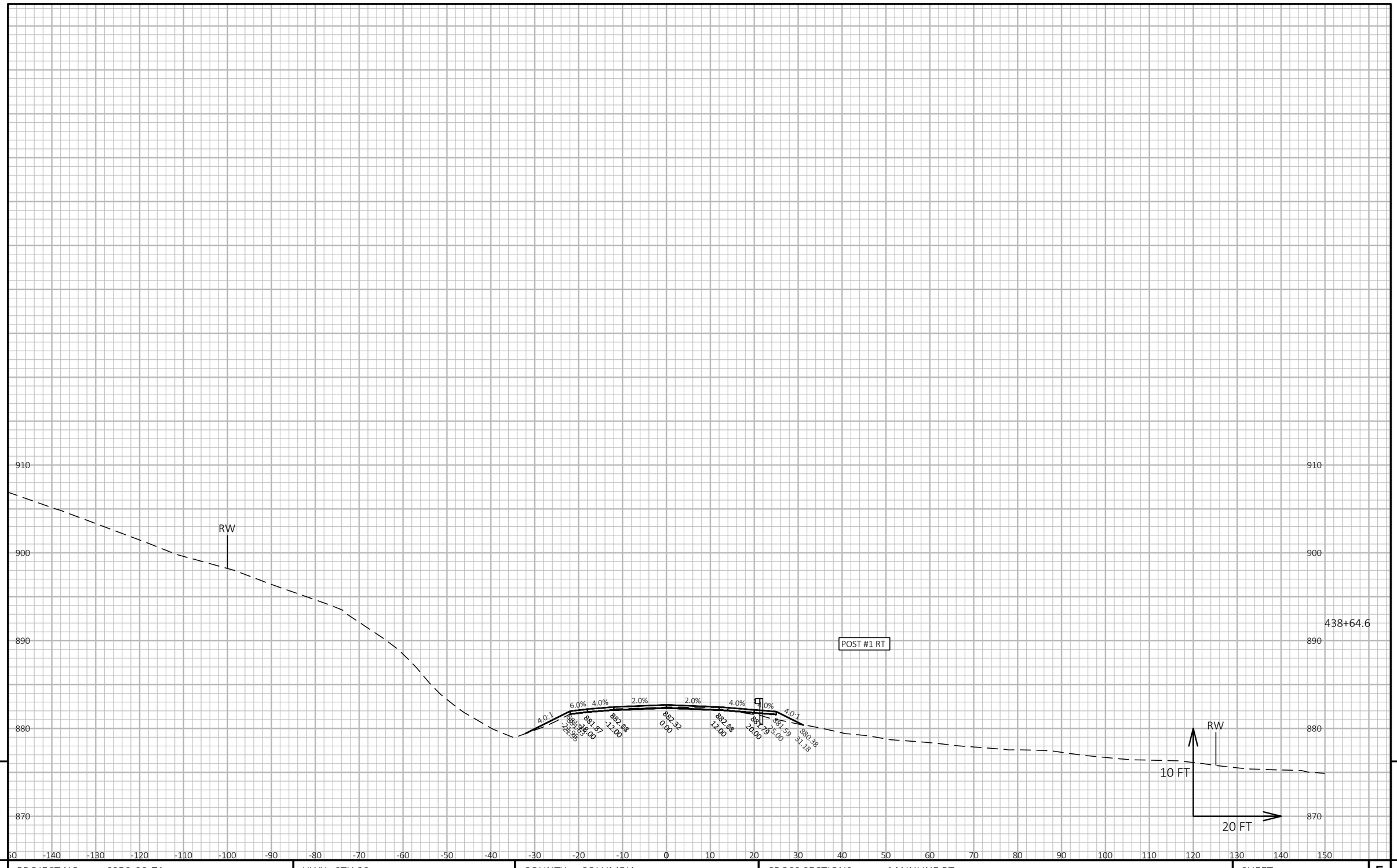
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 335	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 6-2

PLOT DATE : 10/9/2019 8:26 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



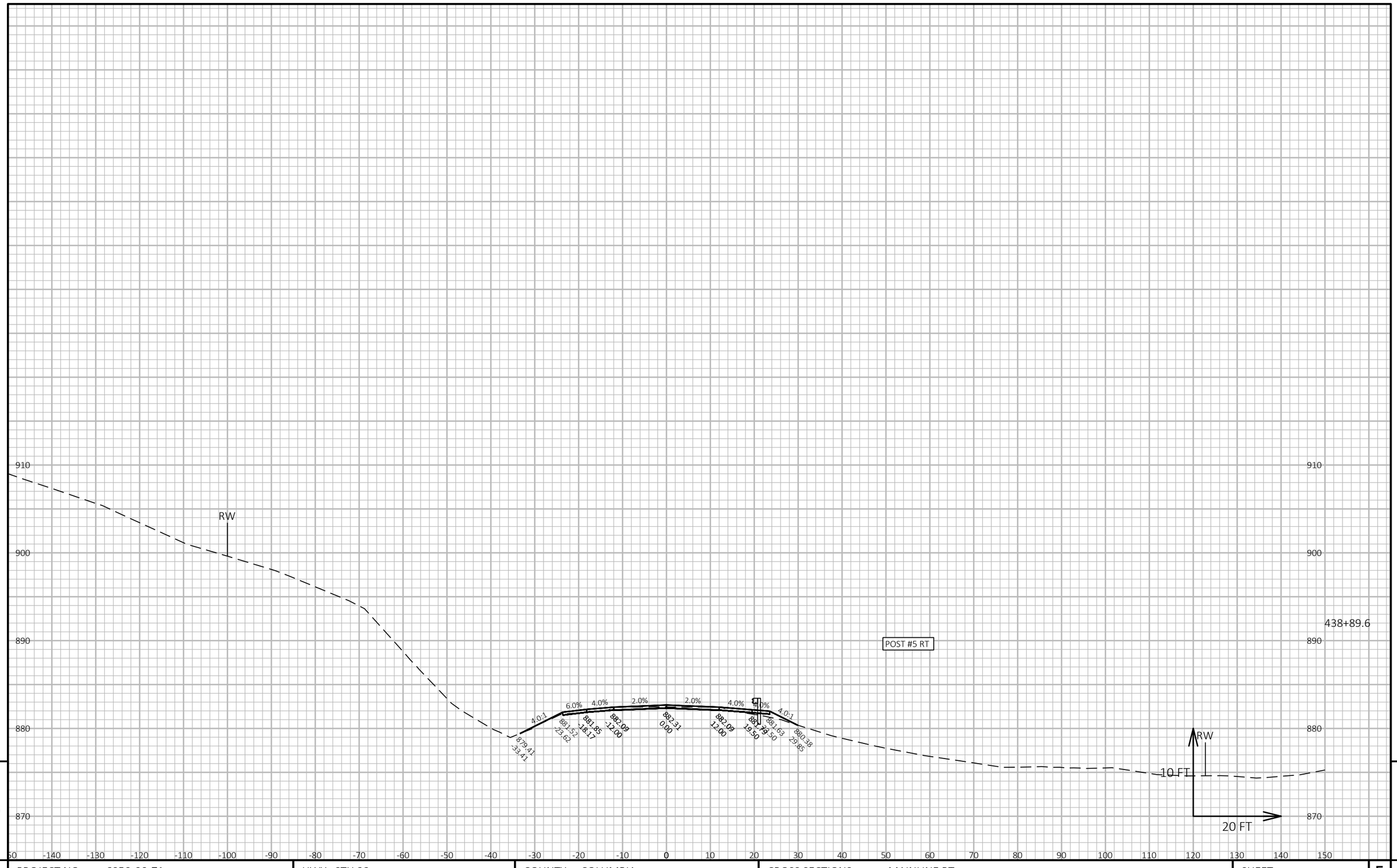
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 336	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 6-3

PLOT DATE : 10/9/2019 8:27 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



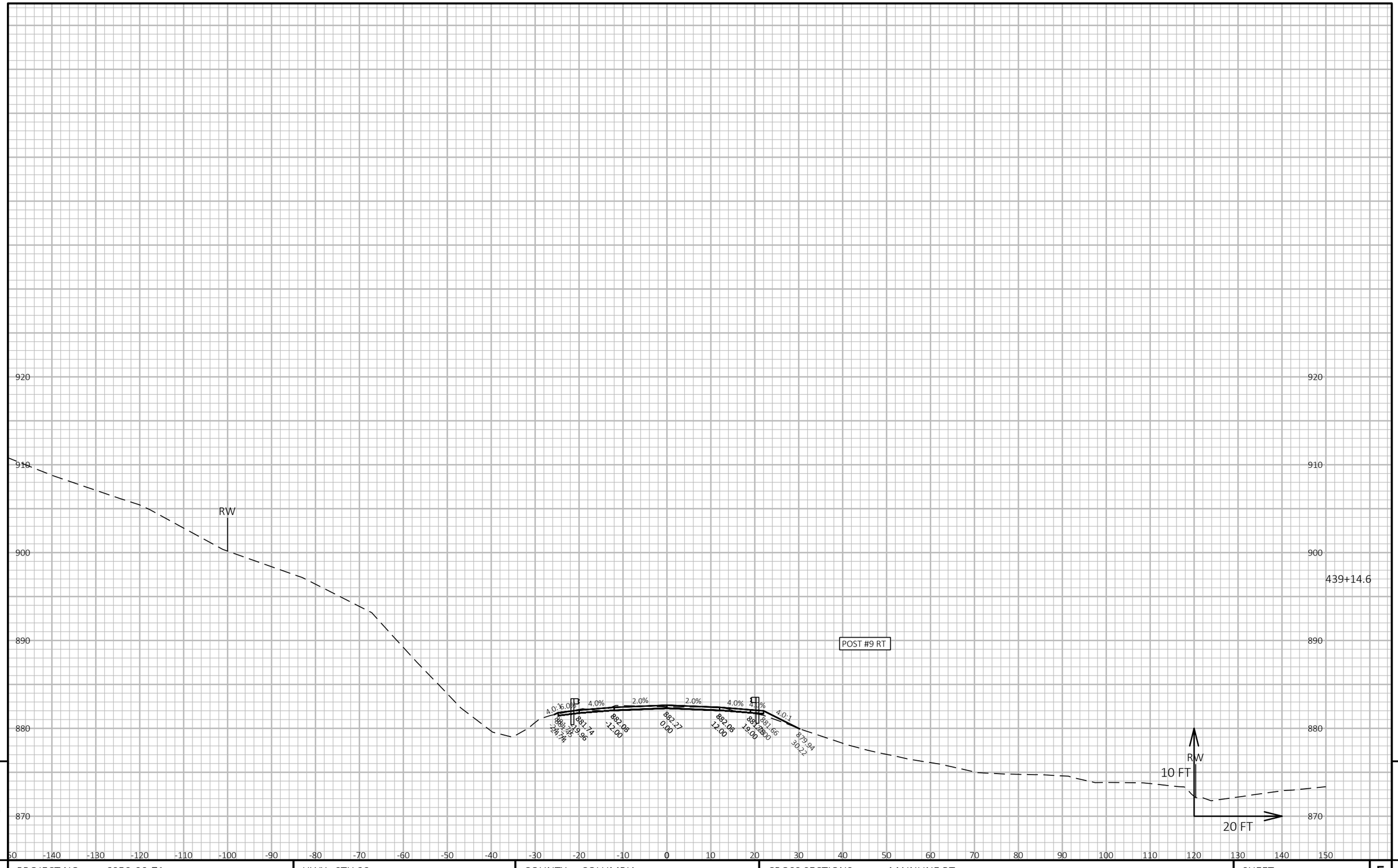
9 9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 337	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 6-4

PLOT DATE : 10/9/2019 8:27 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

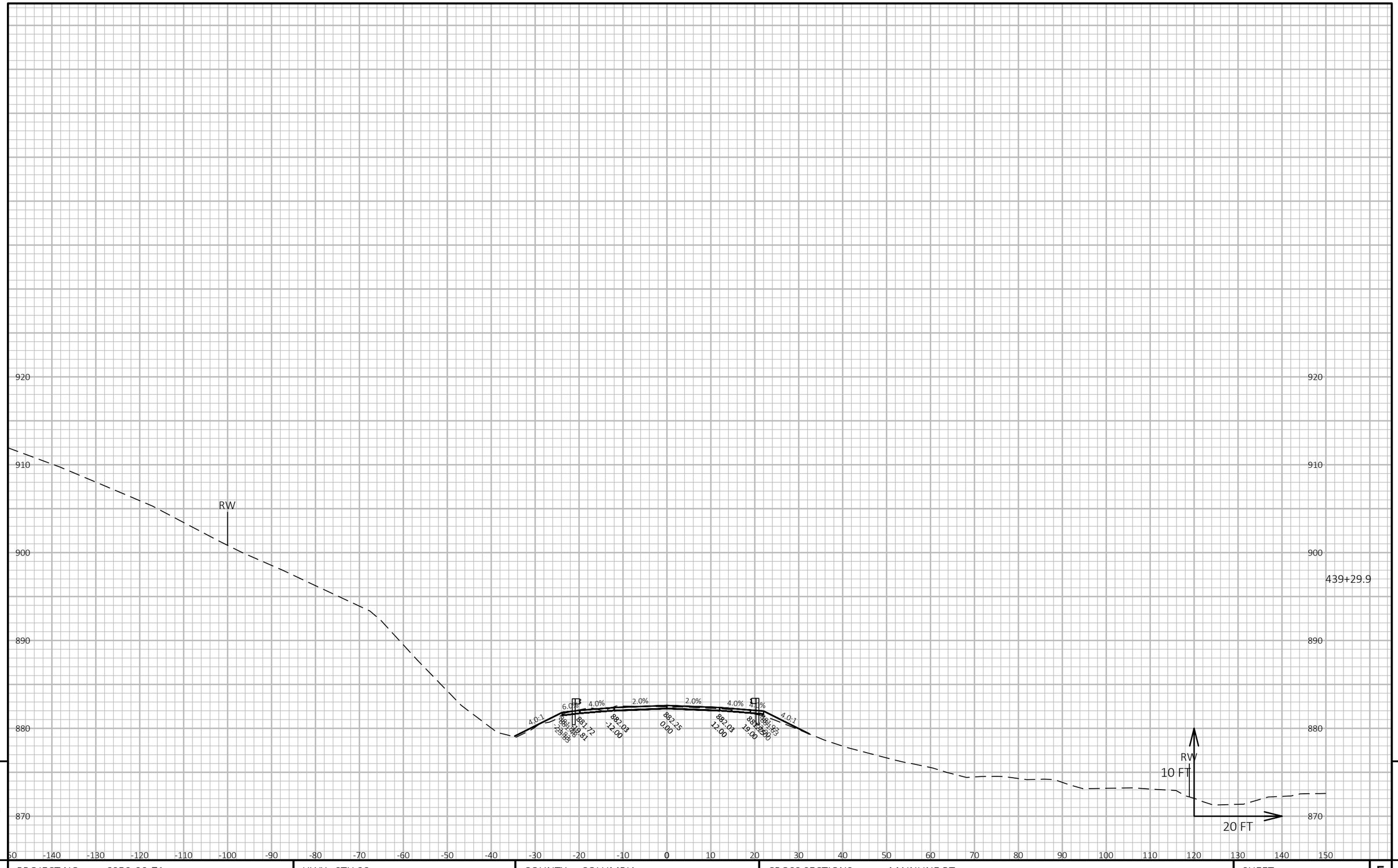
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 338	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 6-5

PLOT DATE : 10/9/2019 8:27 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

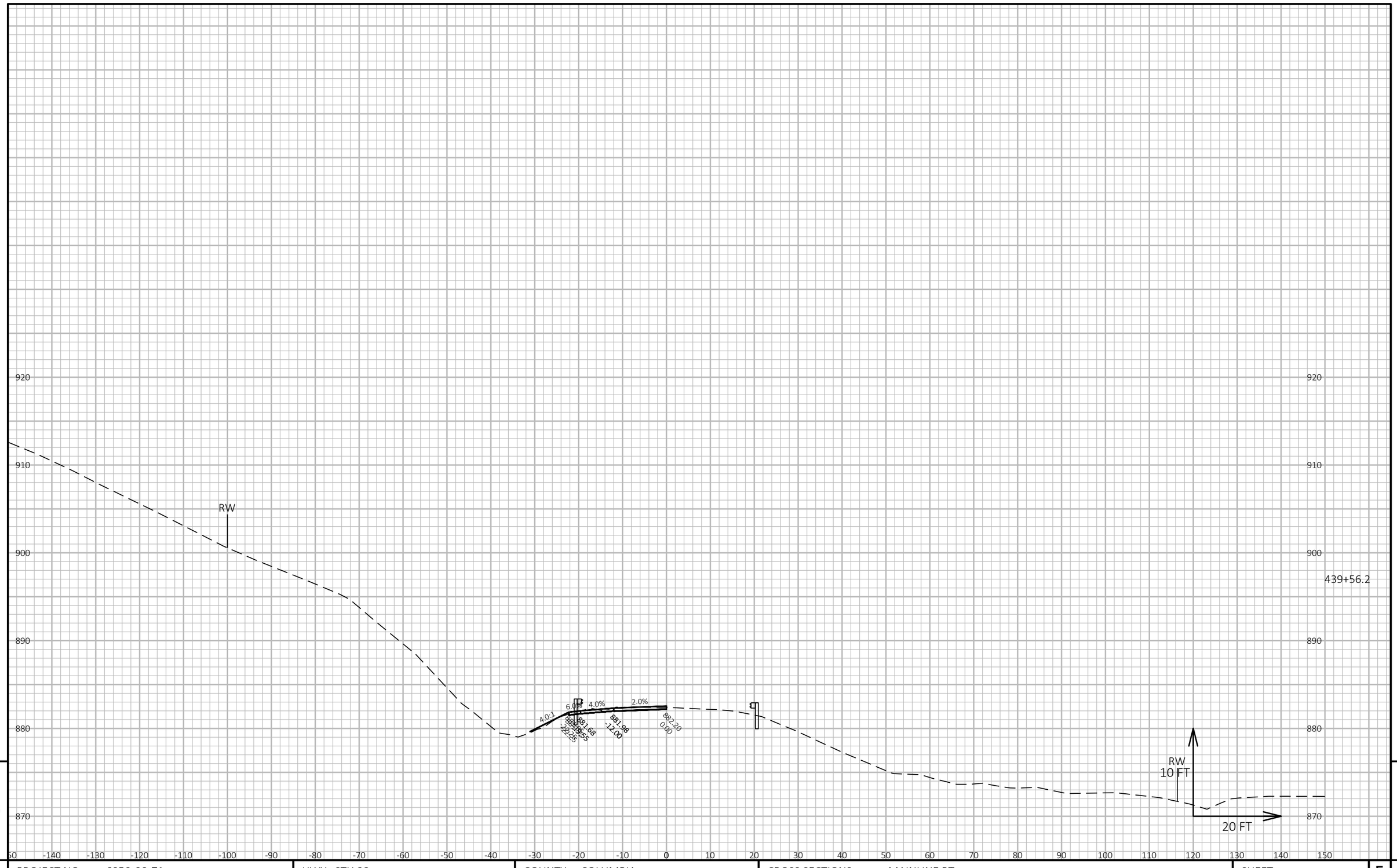
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 339	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 6-6

PLOT DATE : 10/9/2019 8:27 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

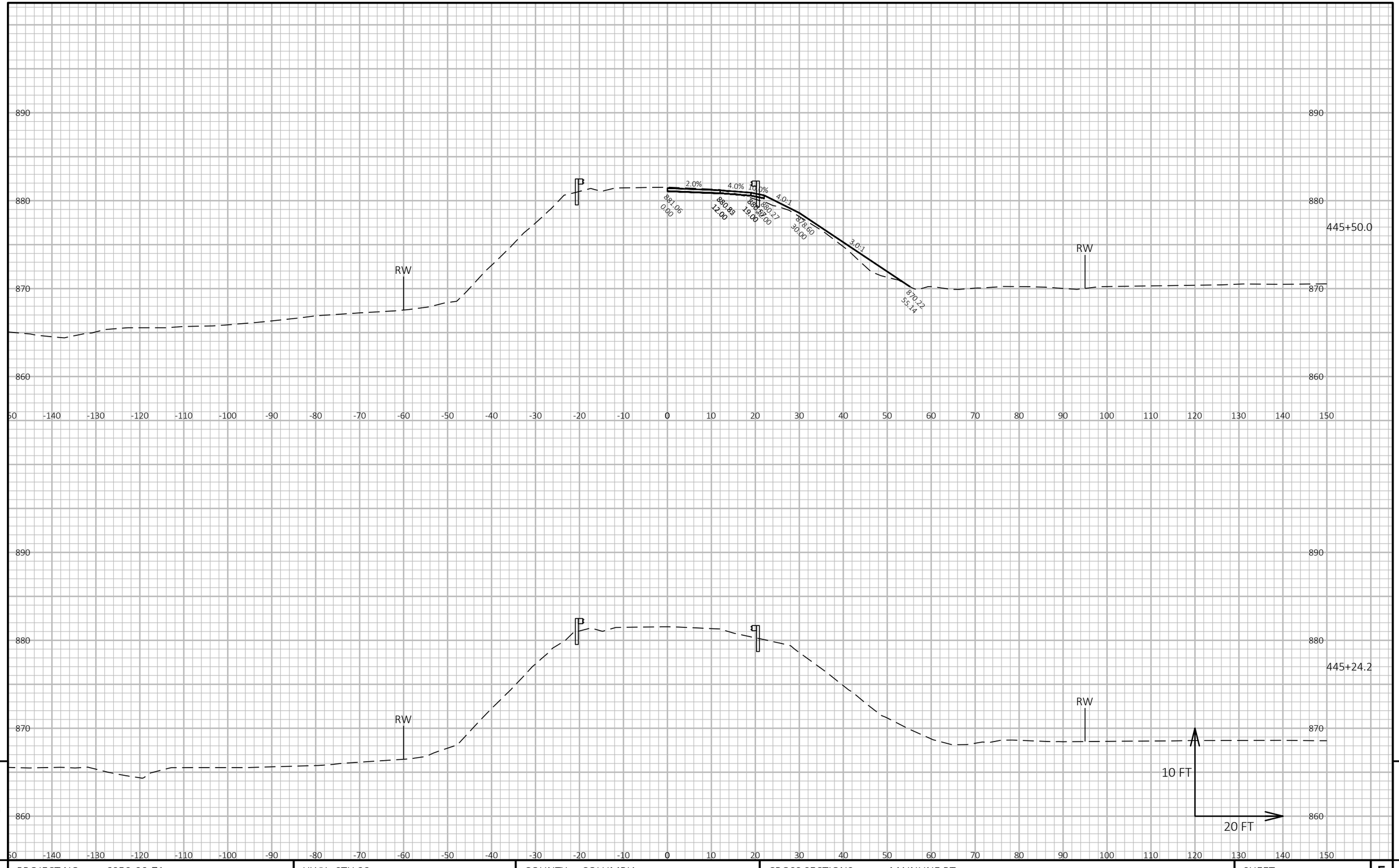
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 340	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 6-7

PLOT DATE : 10/9/2019 8:27 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 341	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 6-8

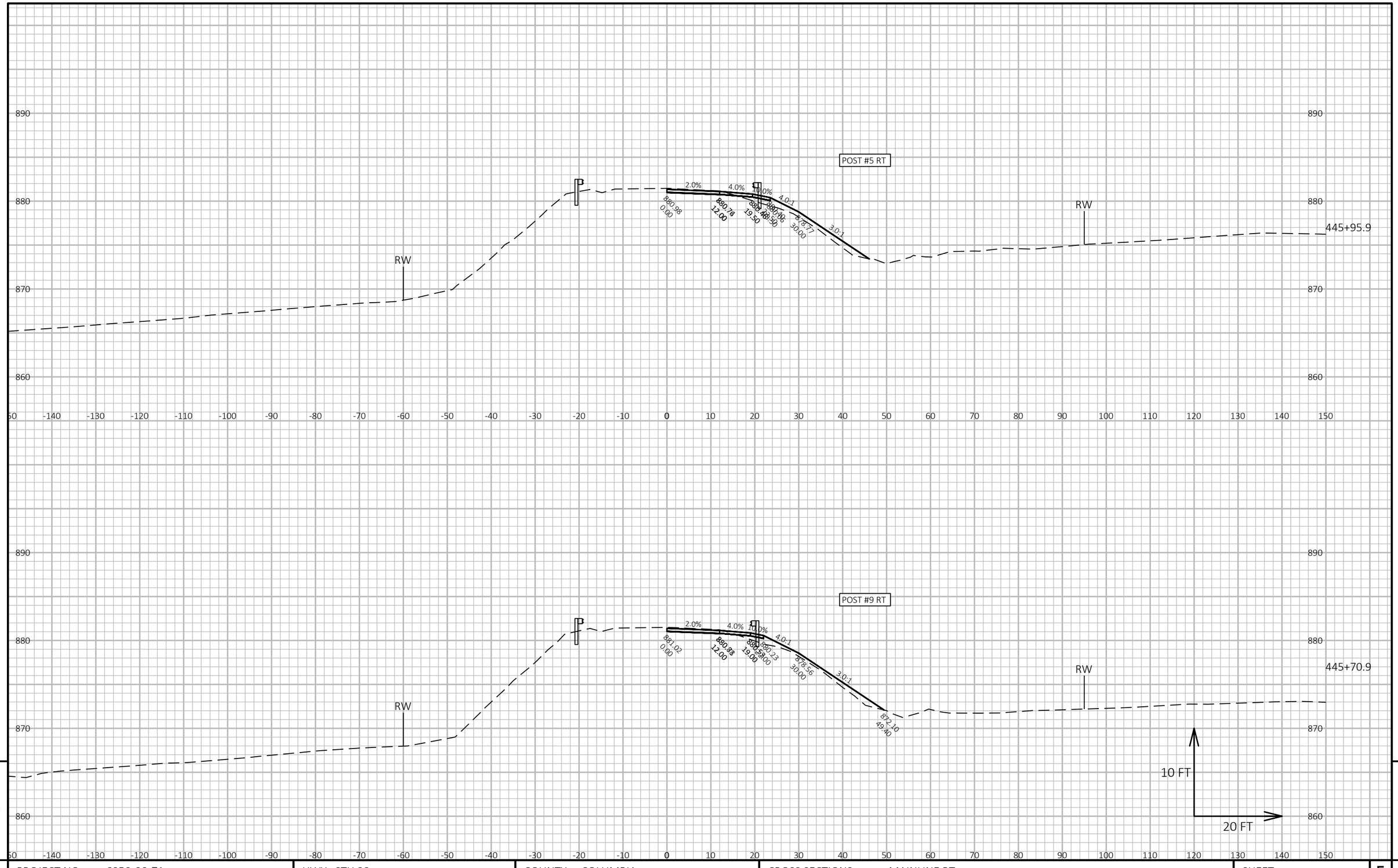
PLOT DATE : 10/9/2019 8:27 PM

PLOT BY : NELSON, JOSHUA B

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

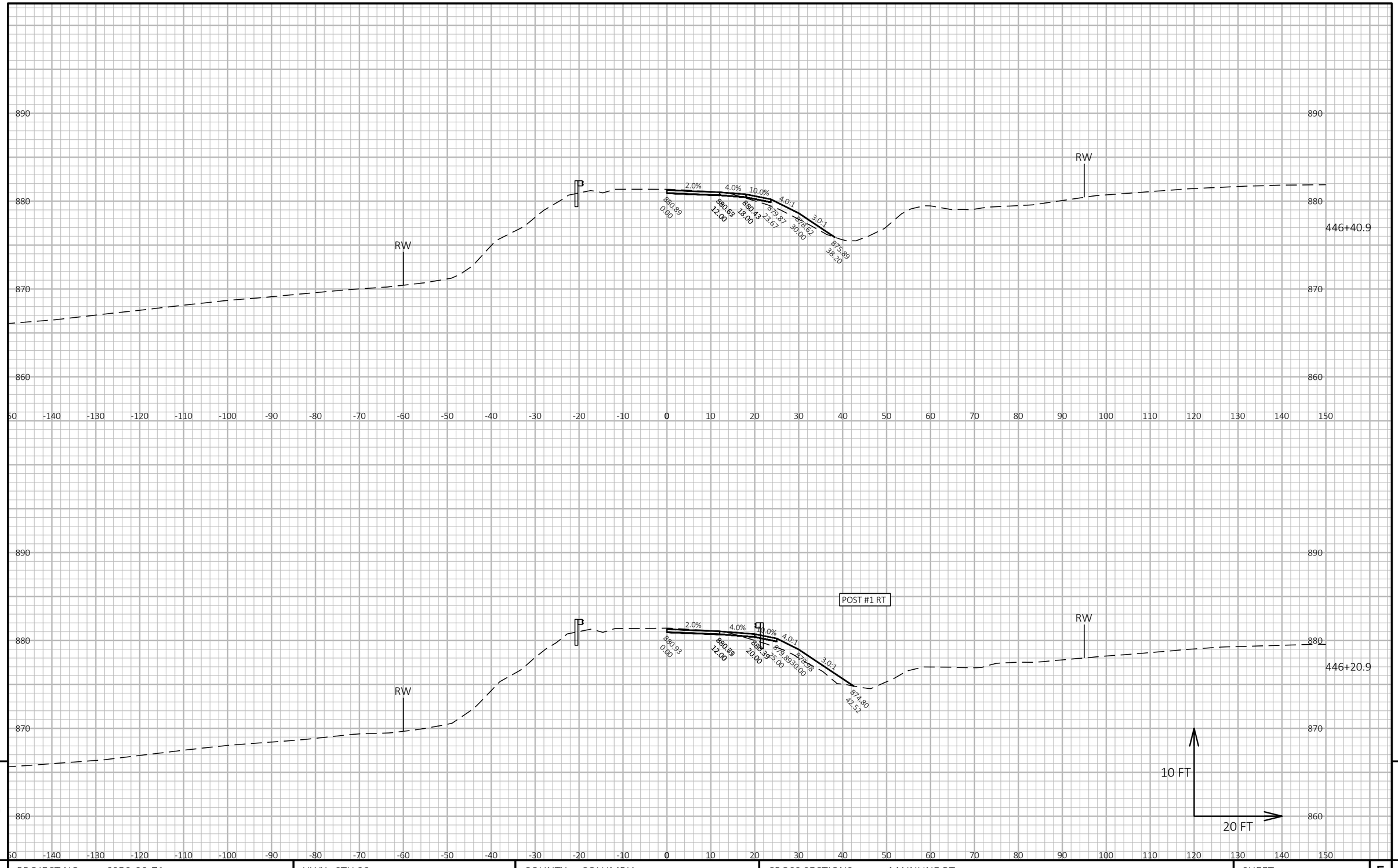
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 342	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 6-9

PLOT DATE : 10/9/2019 8:27 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 343	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 6-10

PLOT DATE : 10/9/2019 8:27 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

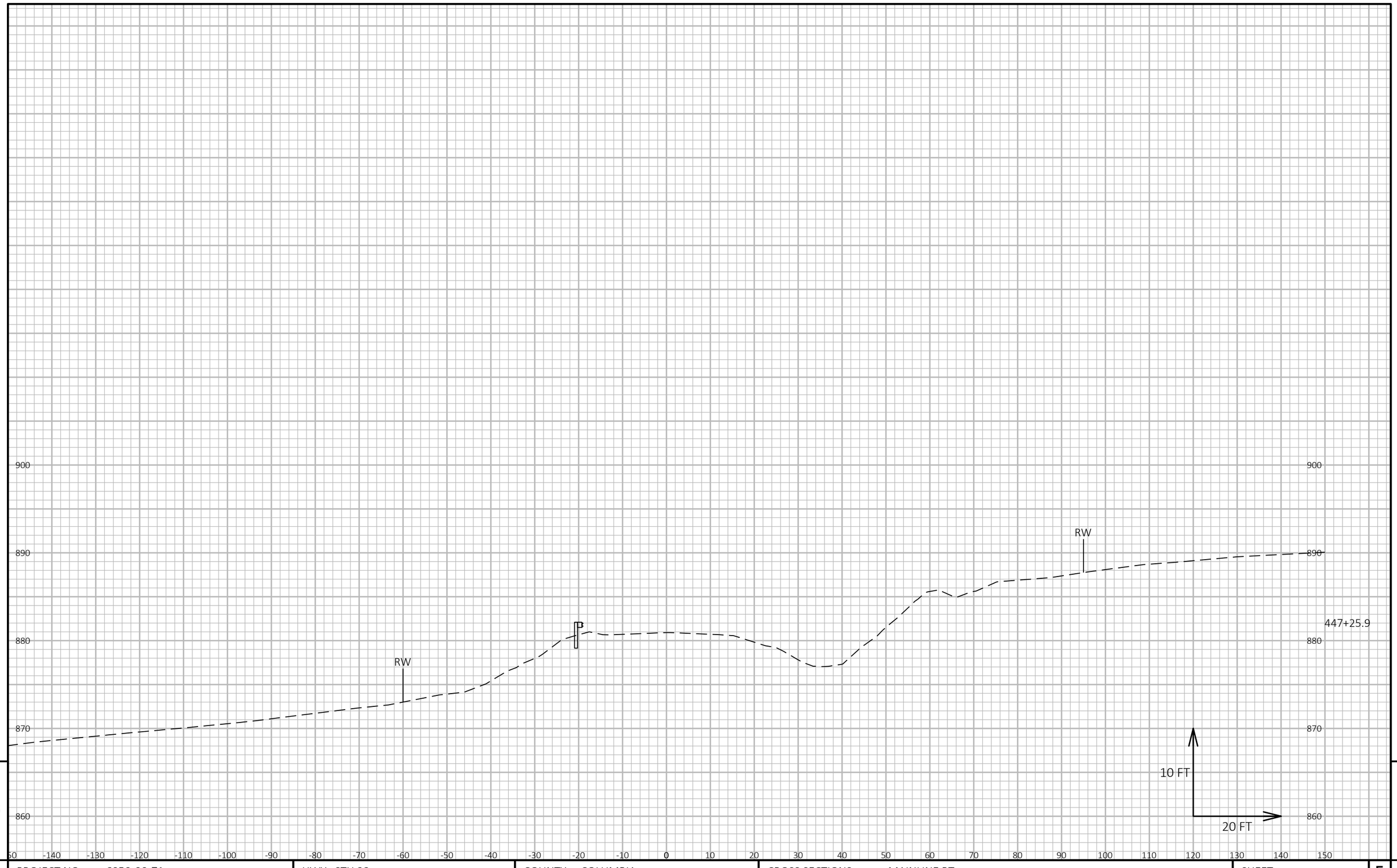
9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 344	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 6-11

PLOT DATE : 10/9/2019 8:28 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

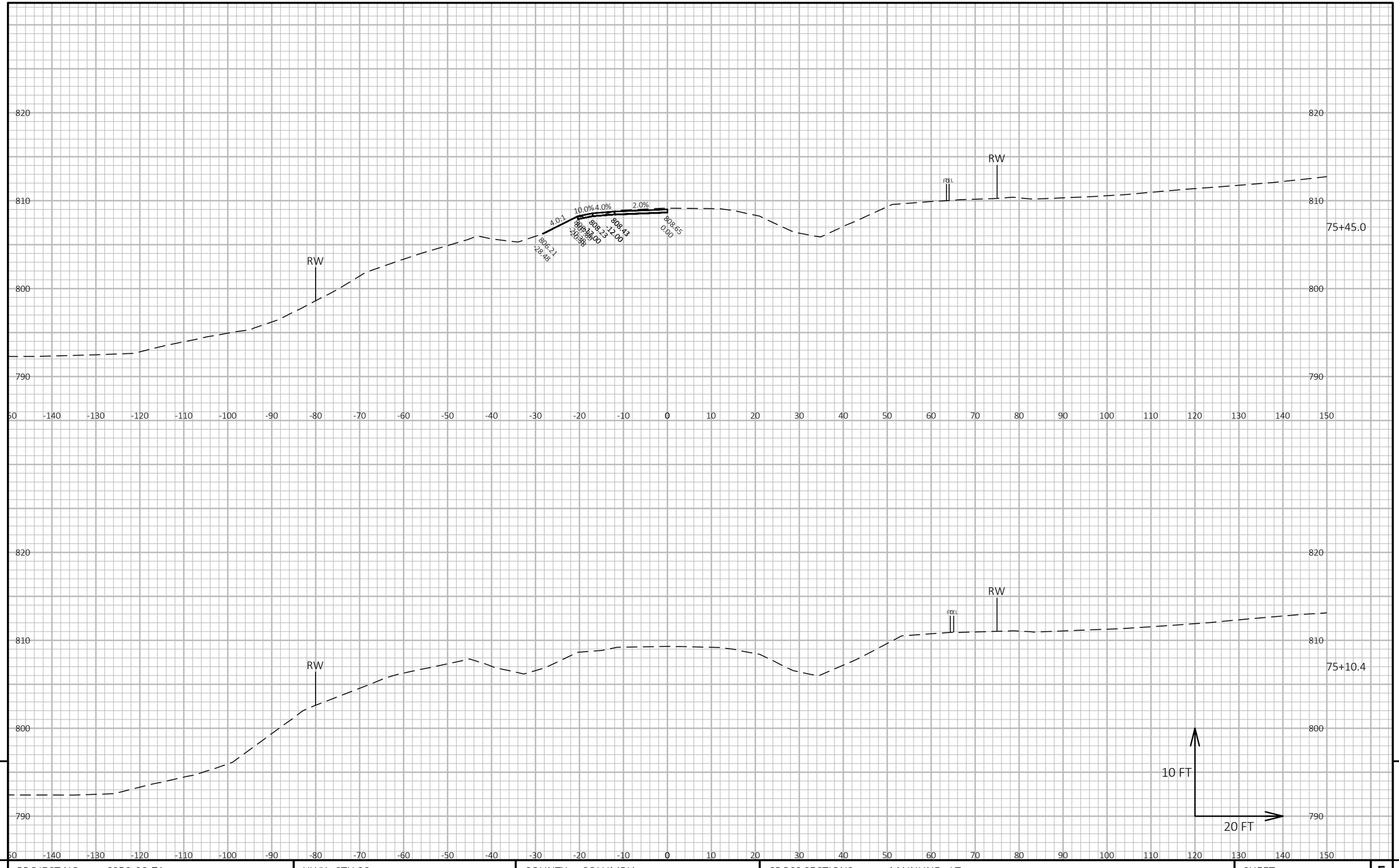
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE RT	SHEET 345	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION 6-12

PLOT DATE : 10/9/2019 8:28 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 346	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 7 -1

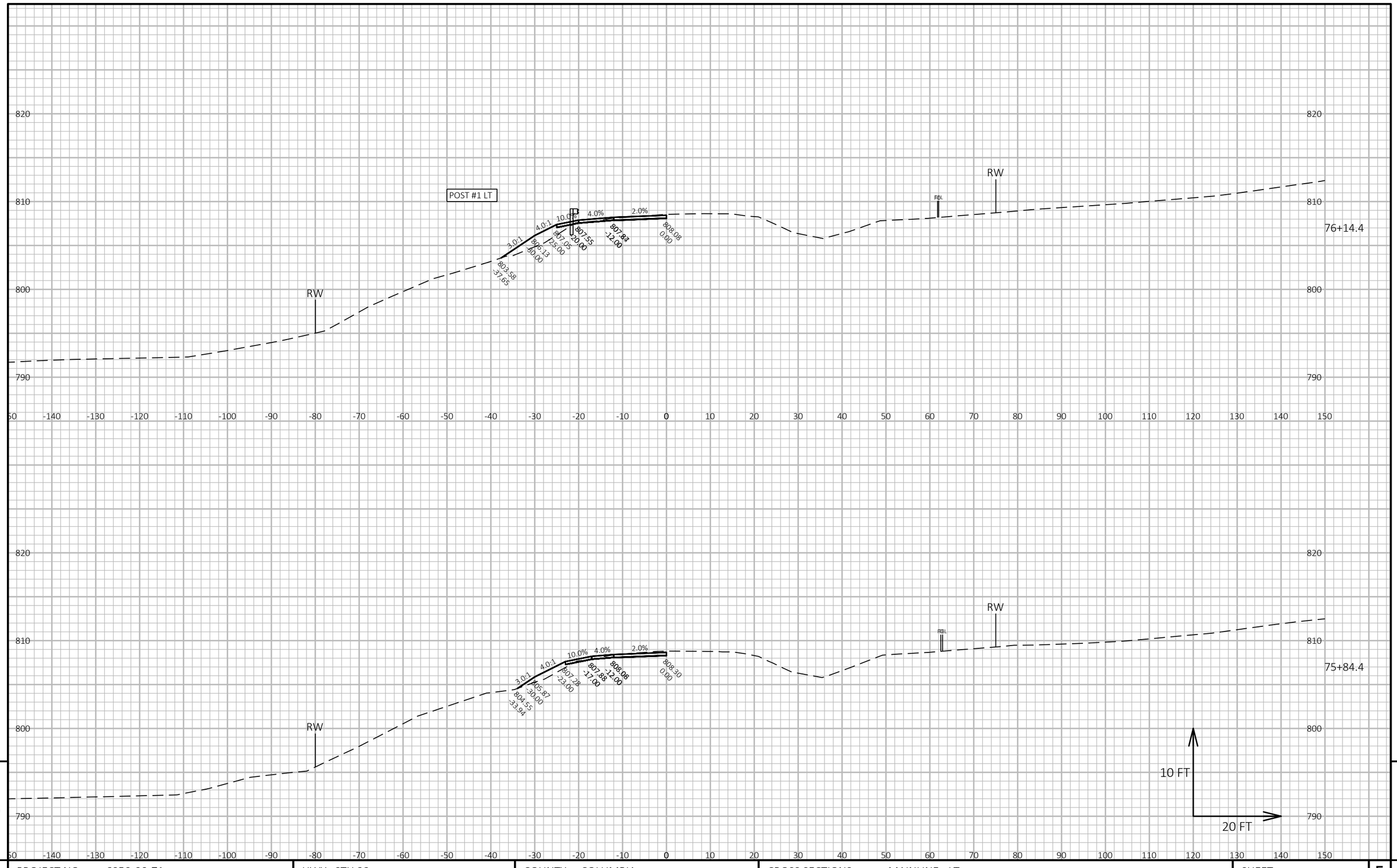
PLOT DATE : 10/9/2019 8:34 PM

PLOT BY : NELSON, JOSHUA B

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 347	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 7 -2

PLOT DATE : 10/9/2019 8:34 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

POST #9 LT

RW

802.90
-35.00

4.0:1

10.0%

807.30
-18.00

4.0%

807.52
-12.00

2.6%

807.83
0.00

RW

76+64.8

POST #5 LT

RW

803.08
-37.87

4.0:1

805.71
-30.00

4.0:1

10.0%

807.00
-23.50

807.45
-19.00

4.0%

807.78
-12.00

2.0%

807.94
0.00

RW

76+39.4

10 FT

20 FT

9

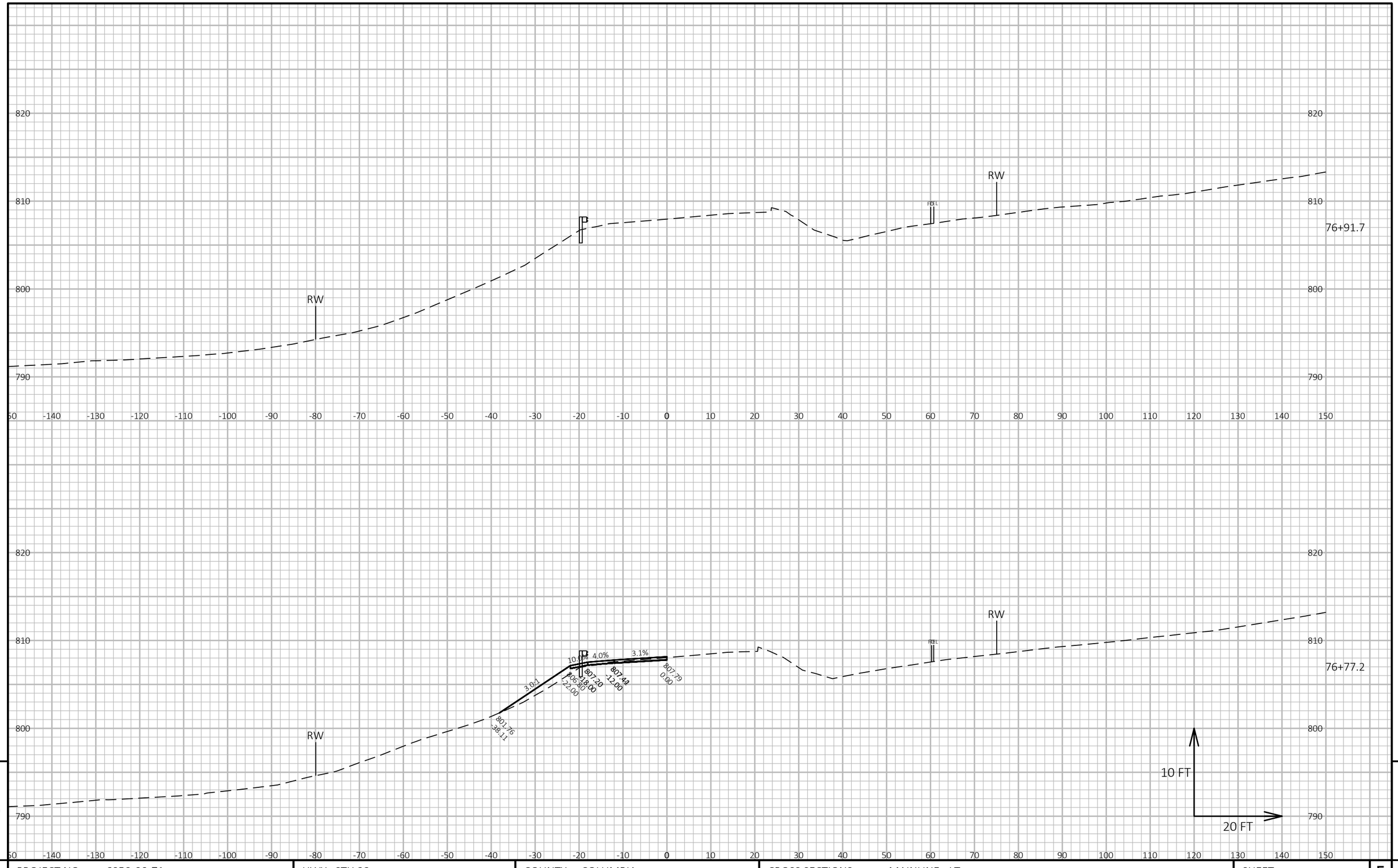
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 348	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 7 -3

PLOT DATE : 10/9/2019 8:35 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 349	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 7 -4

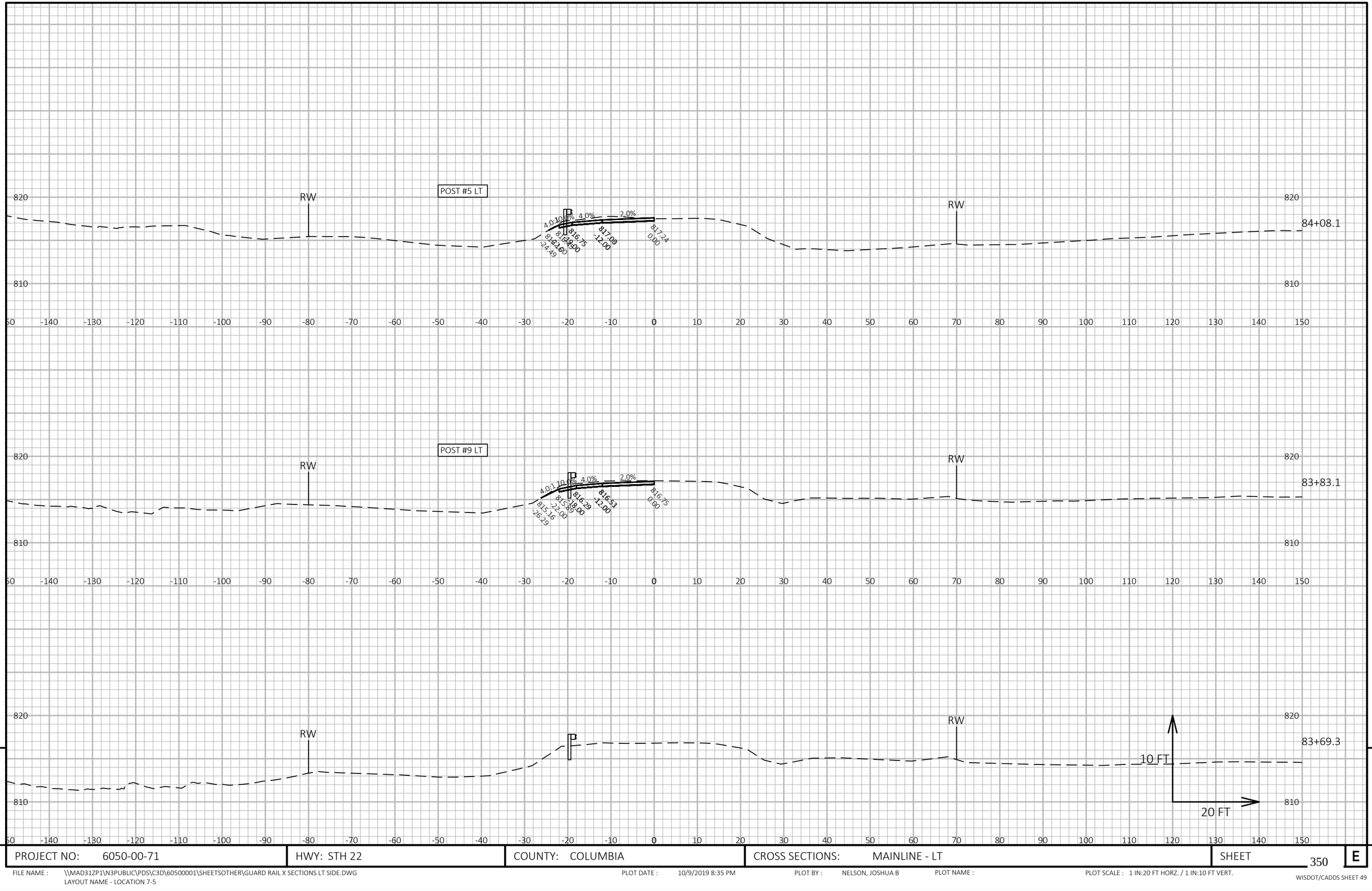
PLOT DATE : 10/9/2019 8:35 PM

PLOT BY : NELSON, JOSHUA B

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



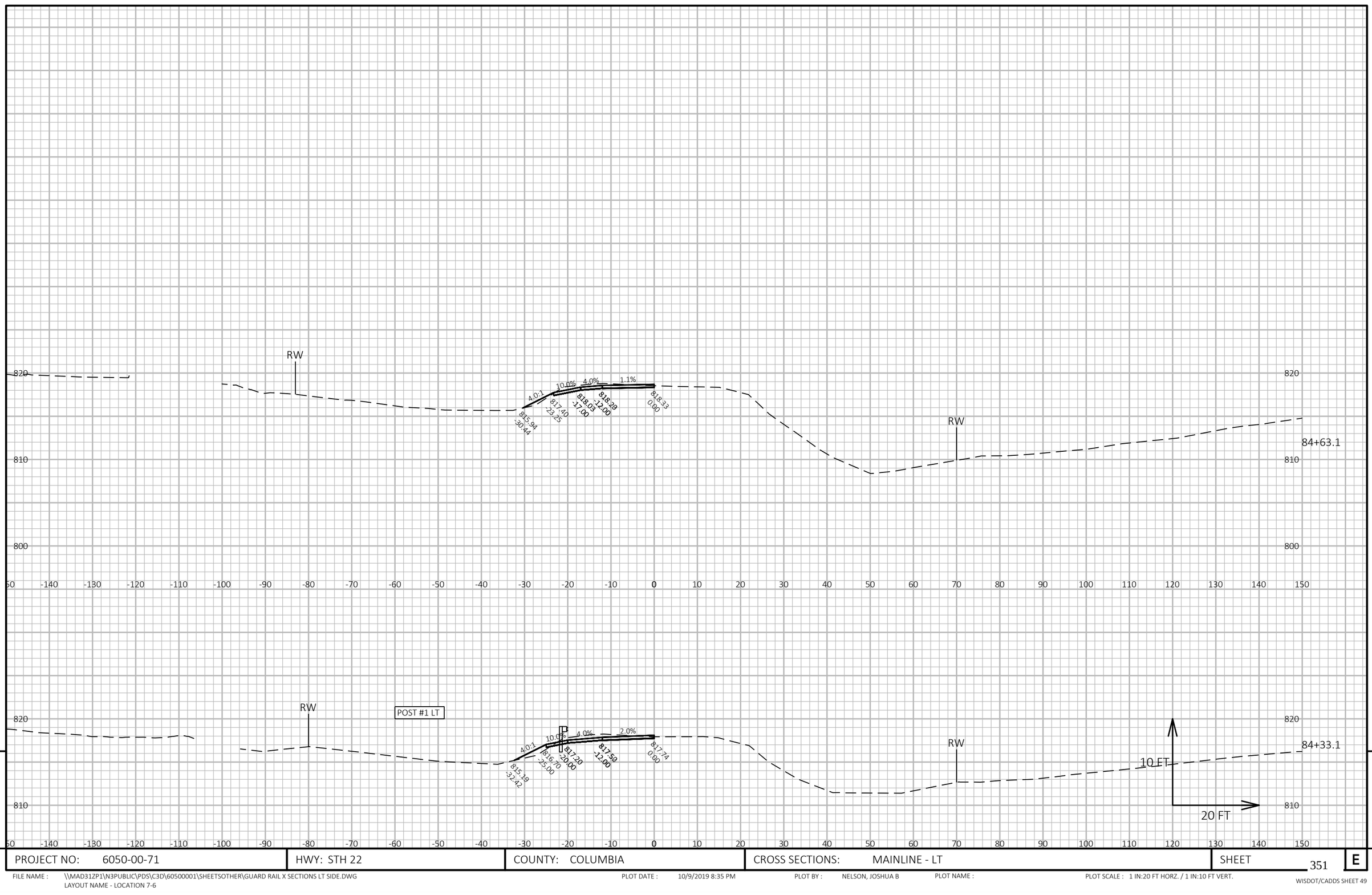
9

9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 350	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 7-5

PLOT DATE : 10/9/2019 8:35 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

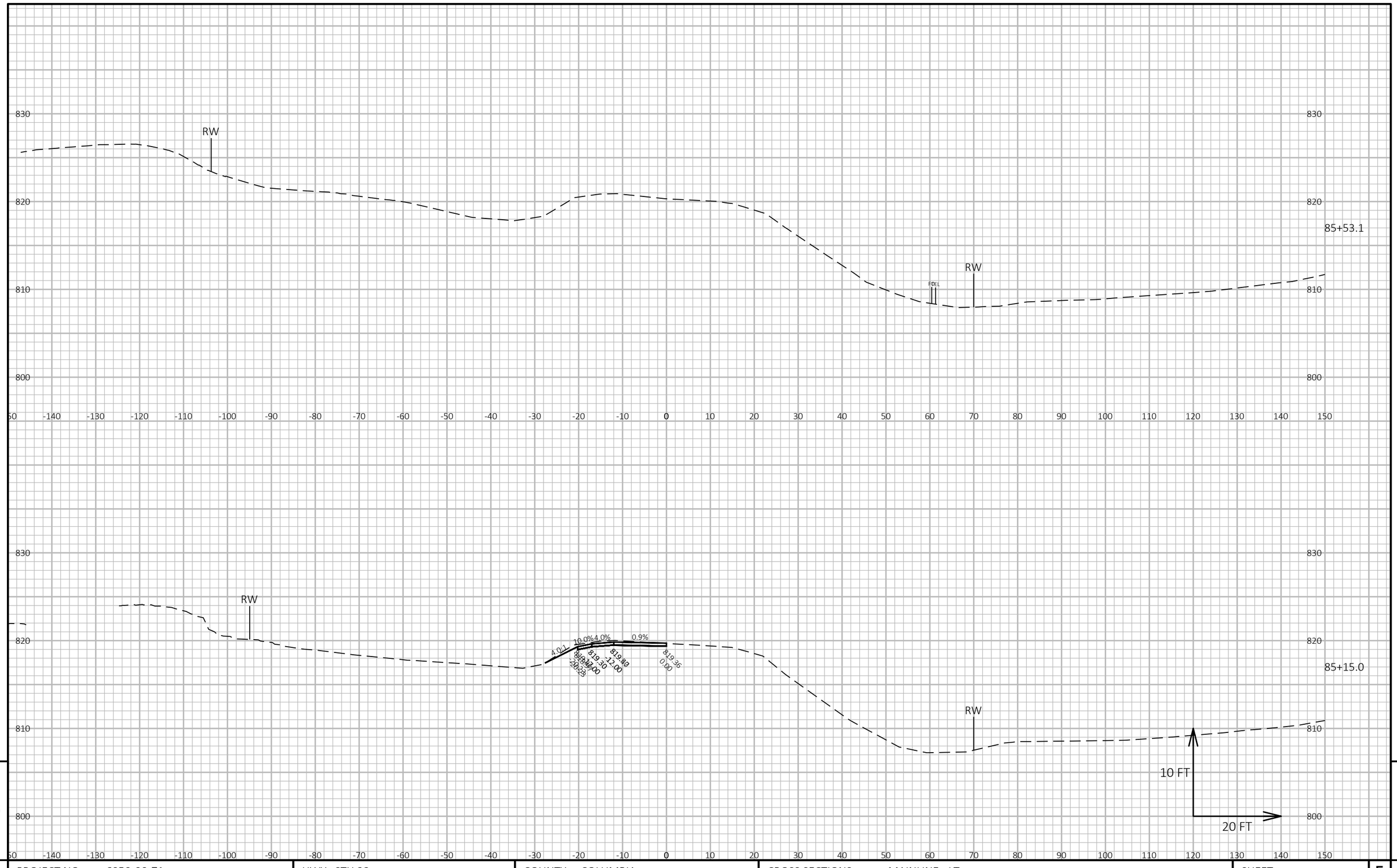
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 351	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 7-6

PLOT DATE : 10/9/2019 8:35 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

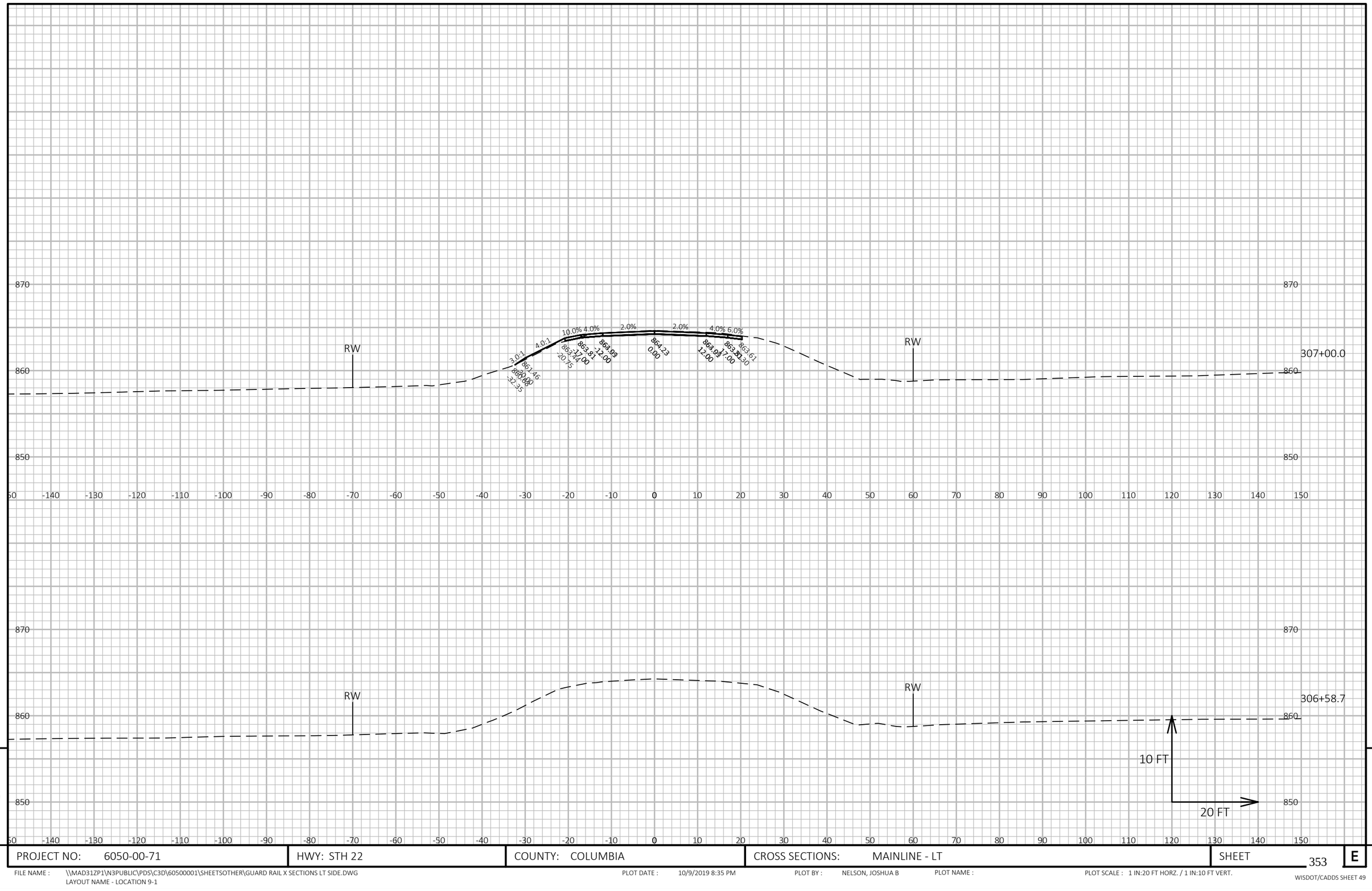
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 352	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 7-7

PLOT DATE : 10/9/2019 8:35 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



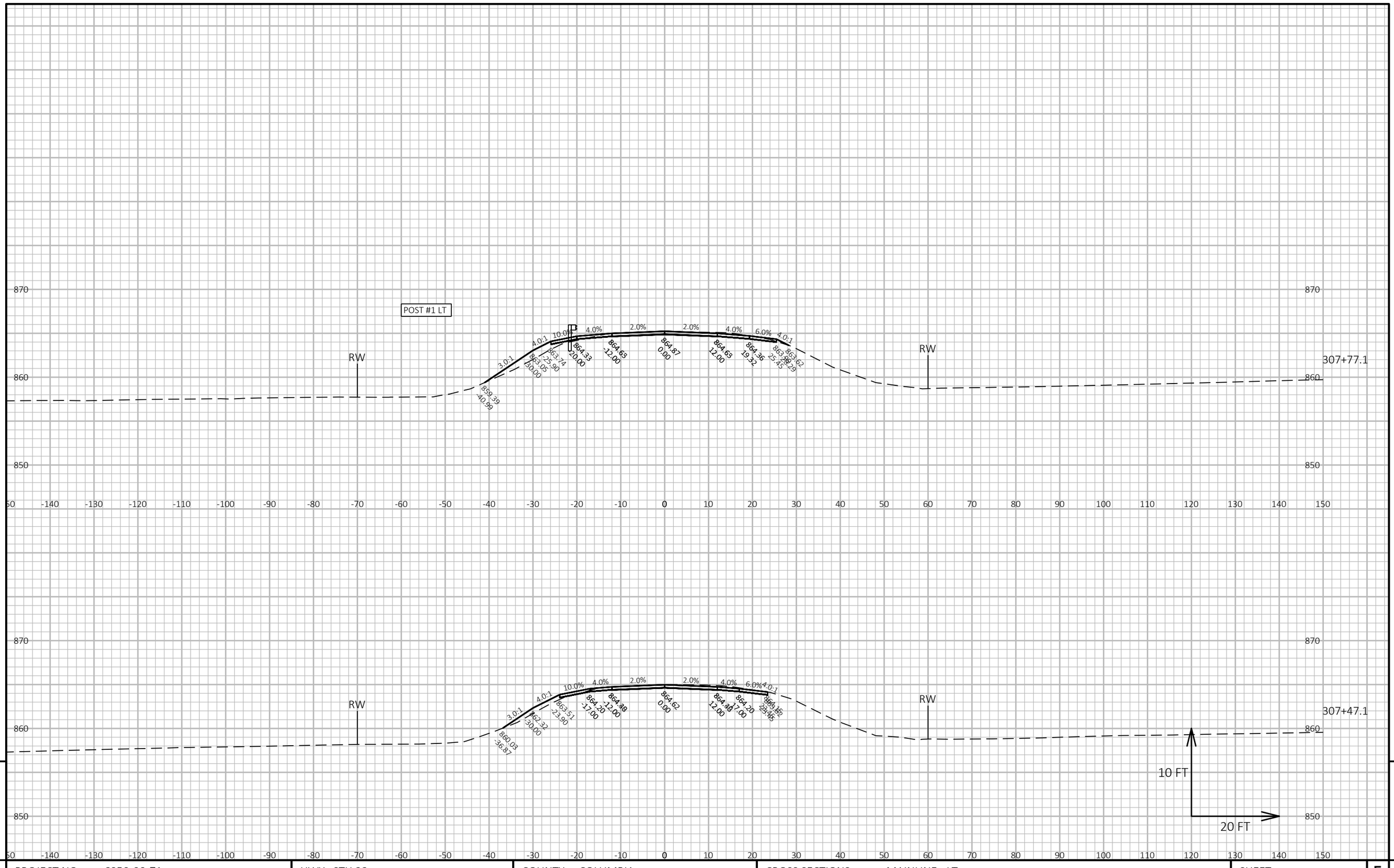
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9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 353	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 9-1

PLOT DATE : 10/9/2019 8:35 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

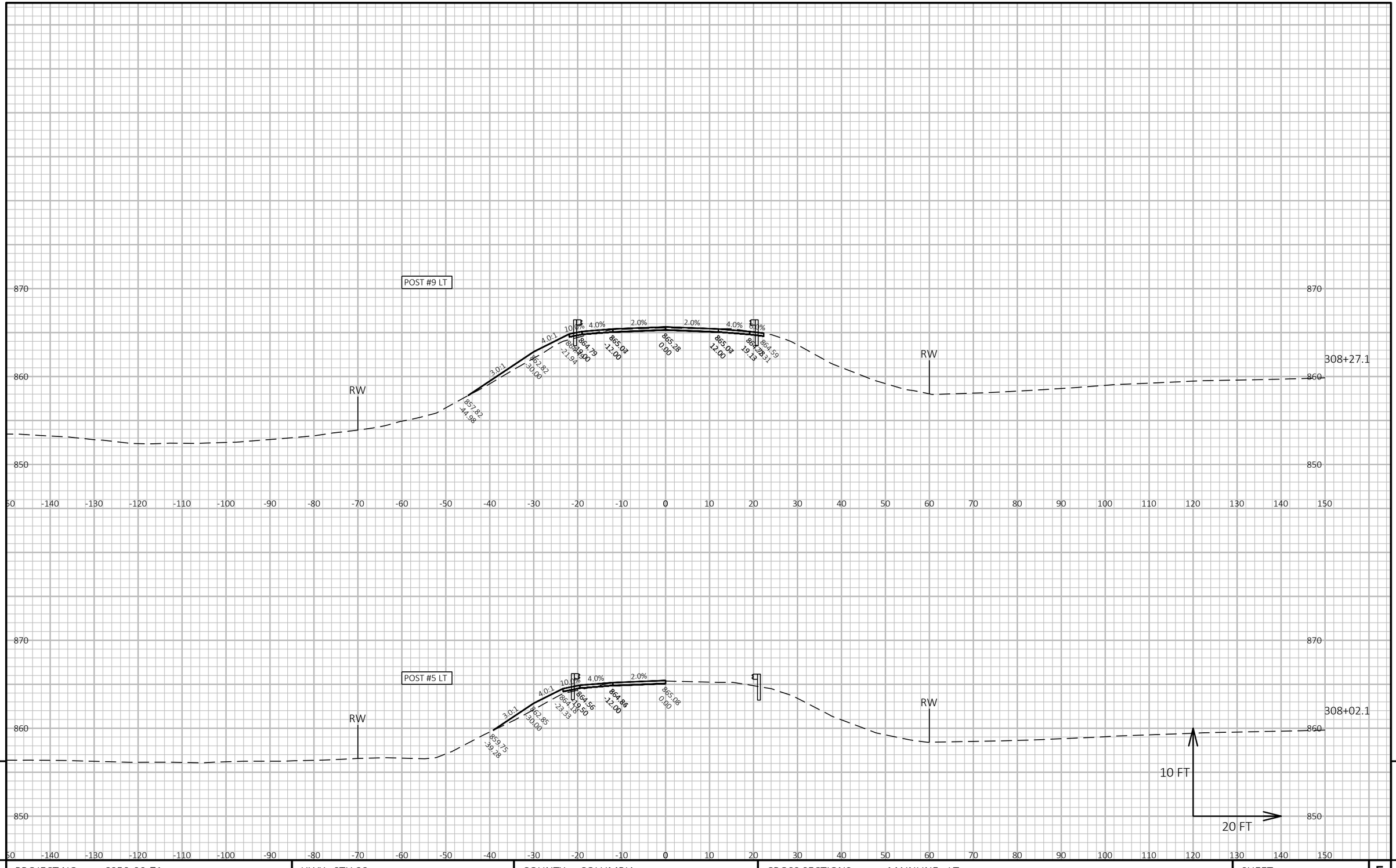
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 354	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 9-2

PLOT DATE : 10/9/2019 8:35 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

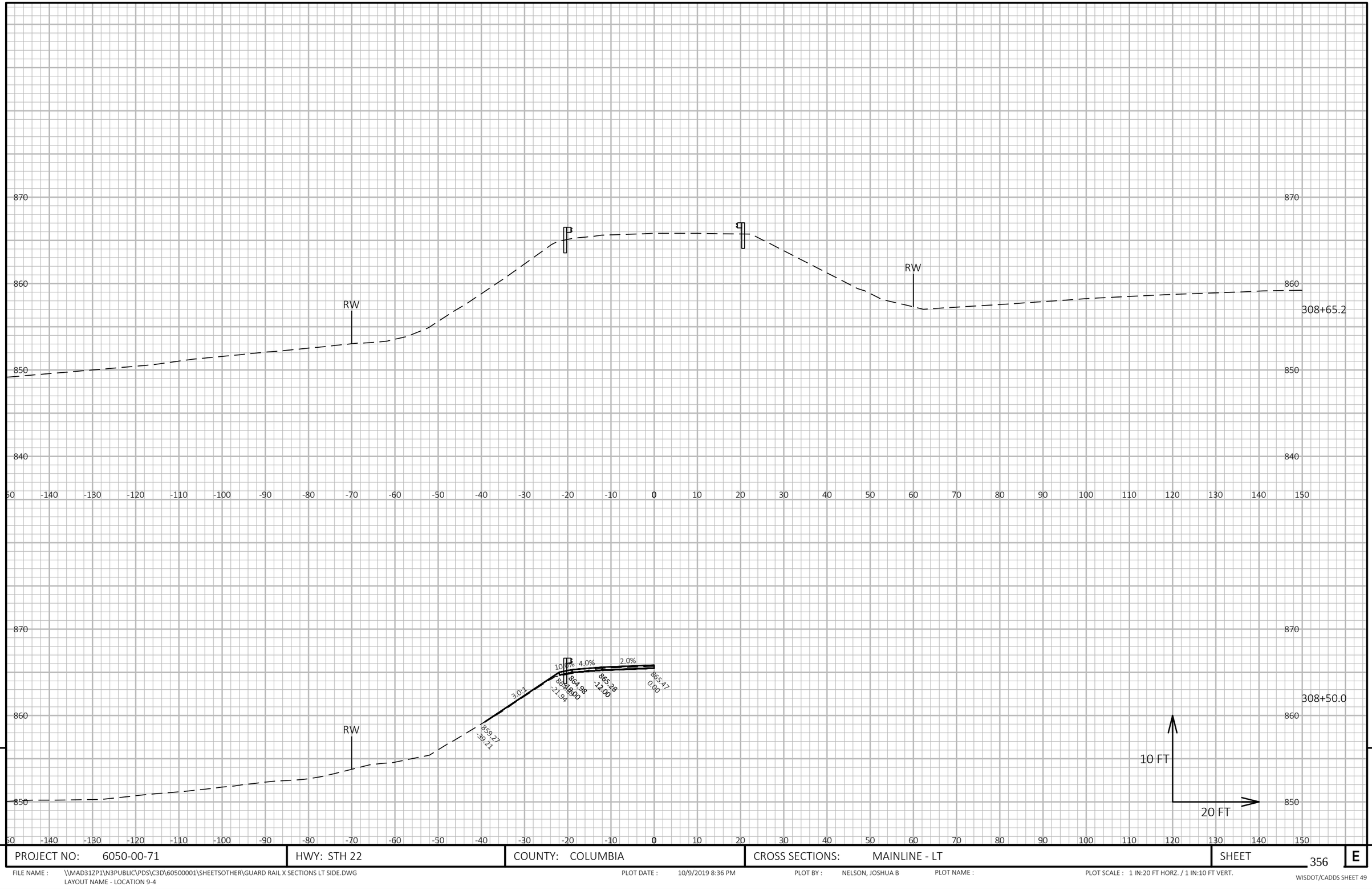
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 355	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 9-3

PLOT DATE : 10/9/2019 8:35 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

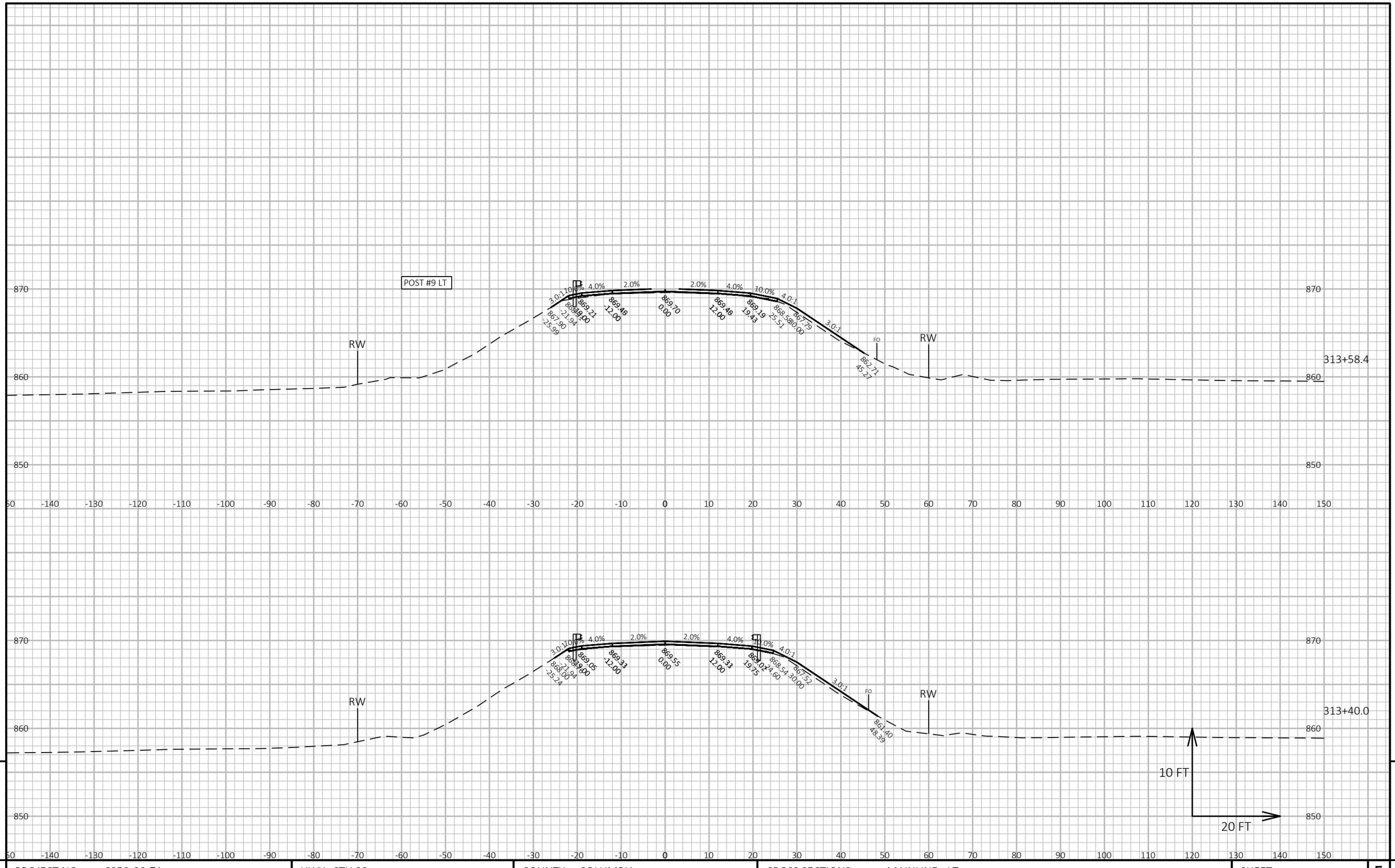
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 356	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 9-4

PLOT DATE : 10/9/2019 8:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

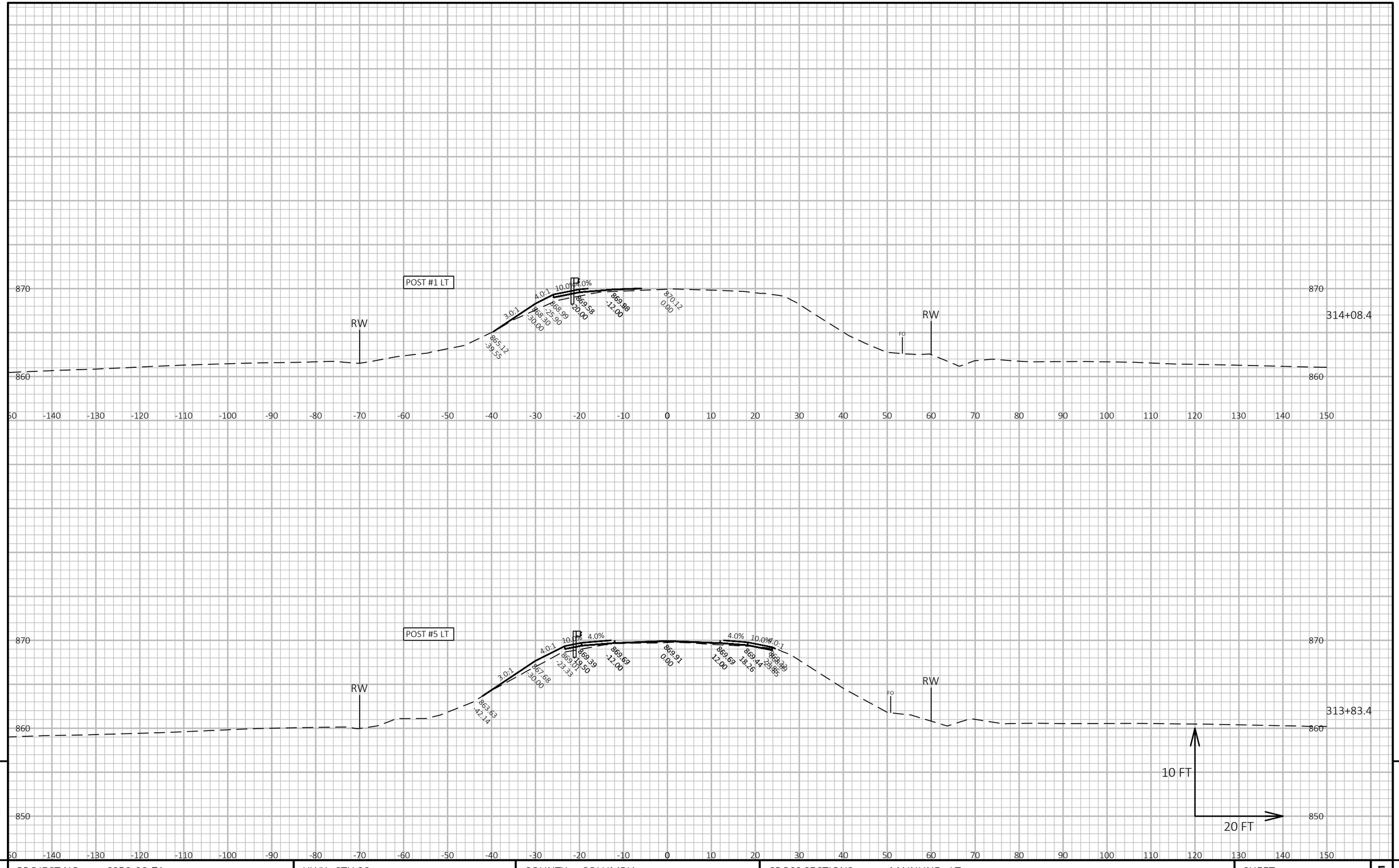
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 357	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 9-5

PLOT DATE : 10/9/2019 8:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

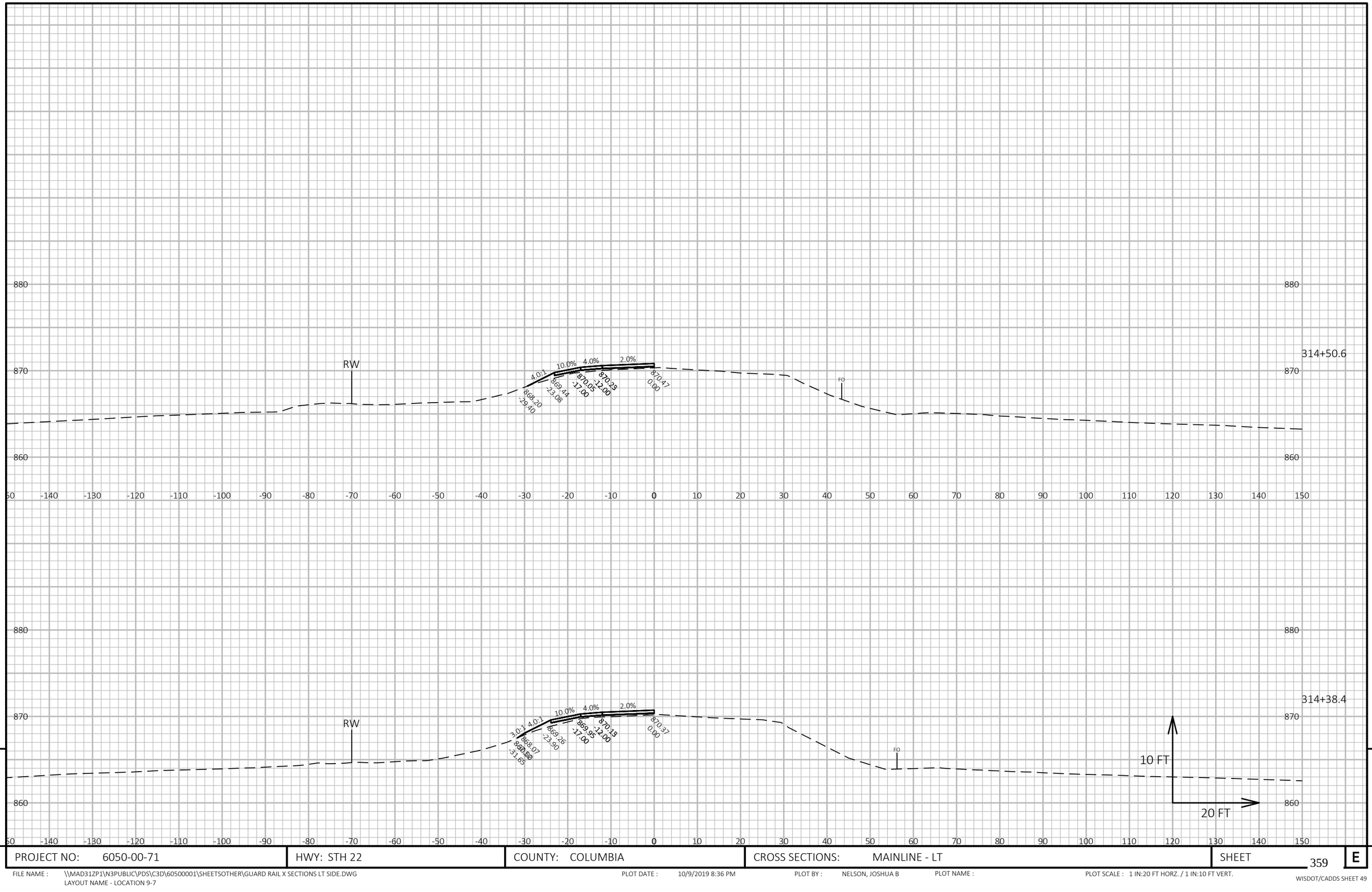


PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 358 E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 9-6

PLOT DATE : 10/9/2019 8:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

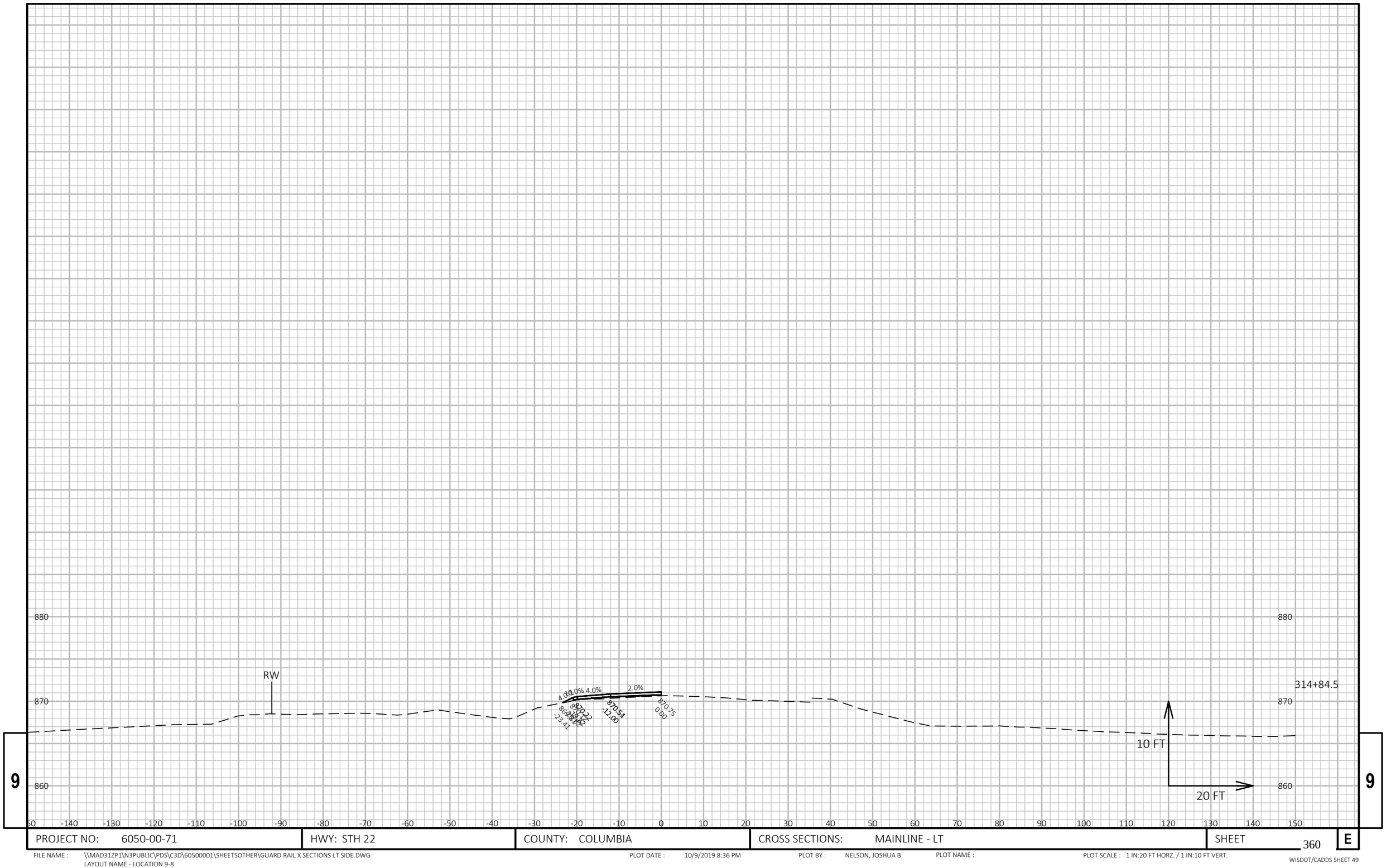
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 359	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 9-7

PLOT DATE : 10/9/2019 8:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

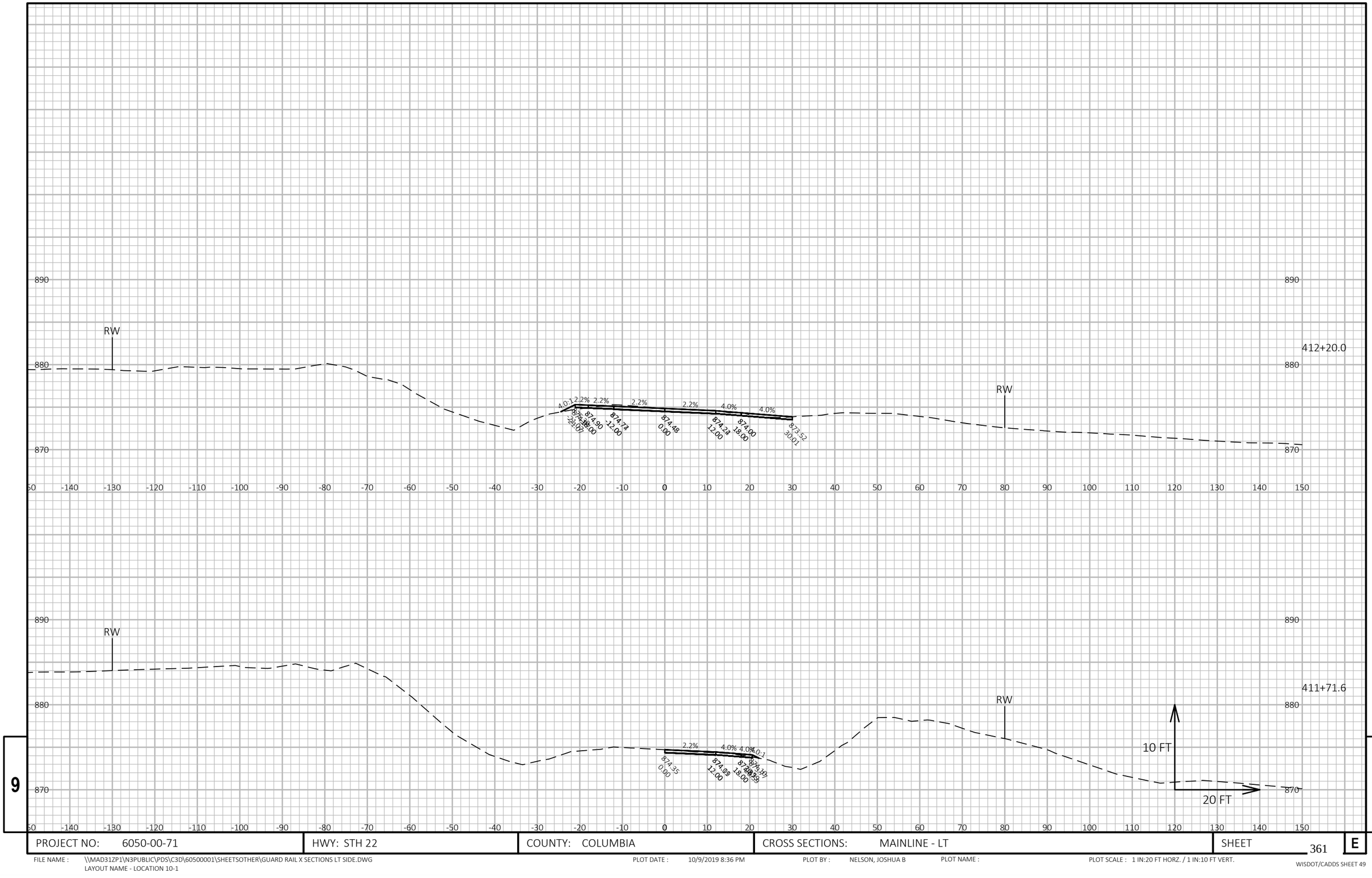


9 9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 360	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 9-8

PLOT DATE : 10/9/2019 8:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

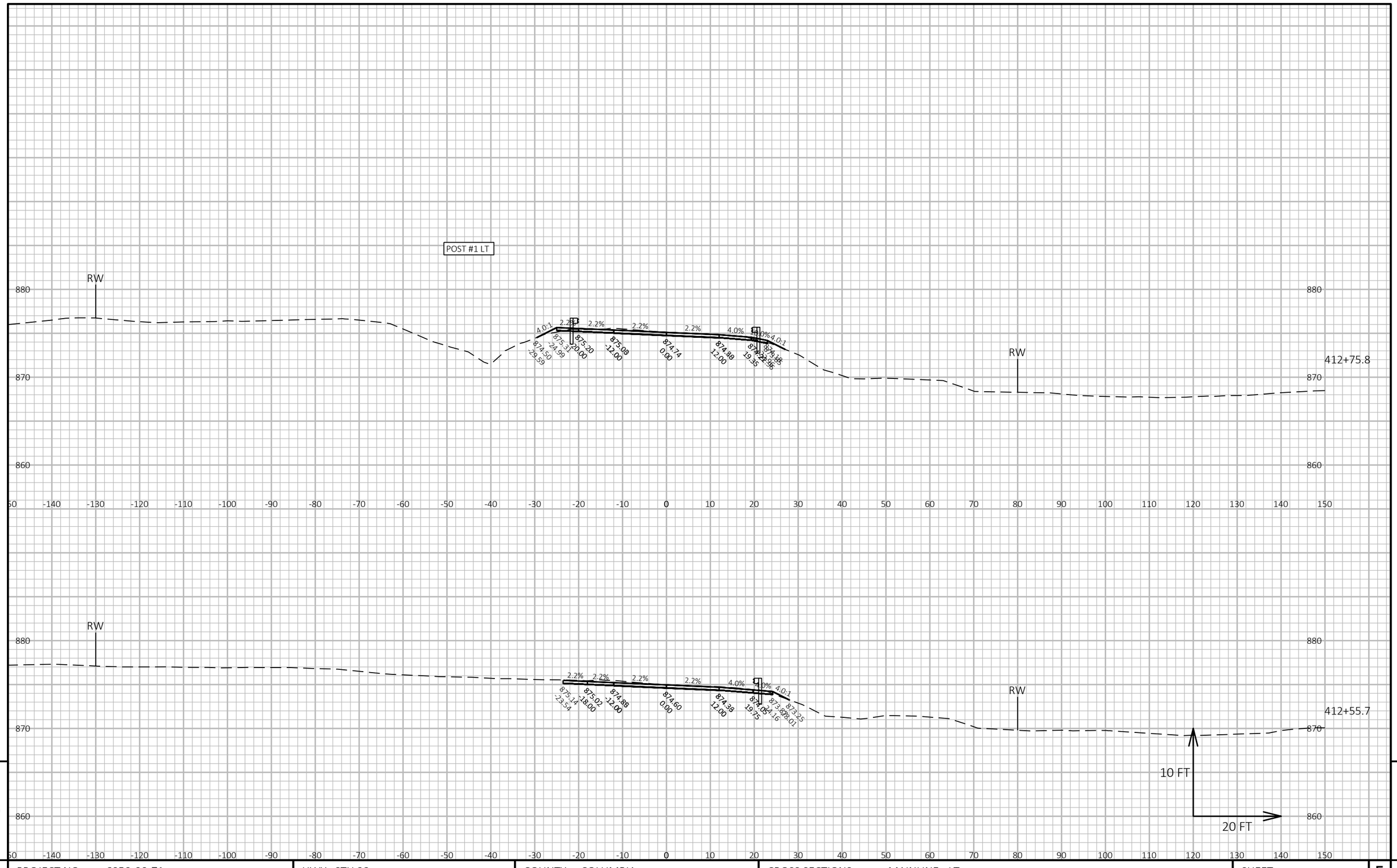
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 361	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 10-1

PLOT DATE : 10/9/2019 8:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

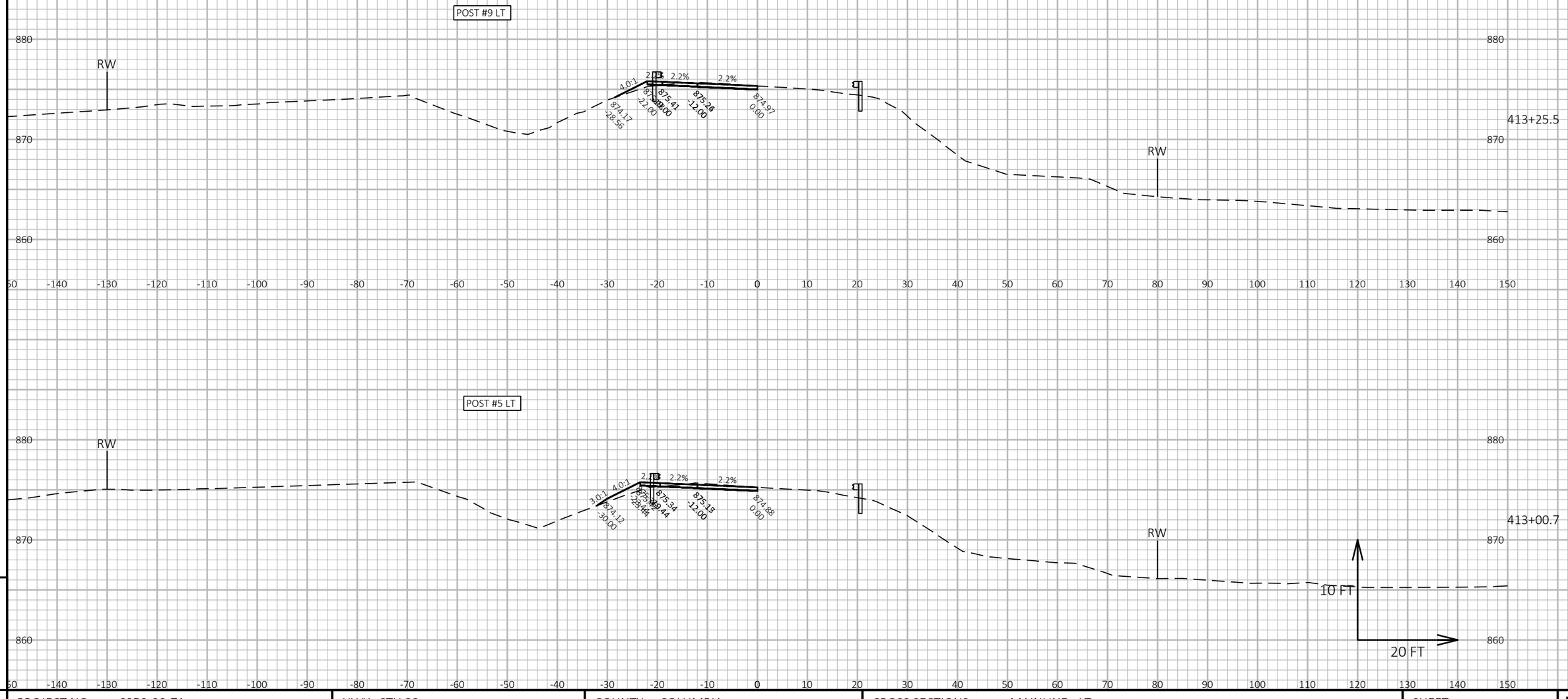
PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 362	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 10-2

PLOT DATE : 10/9/2019 8:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

POST #9 LT



POST #5 LT

9

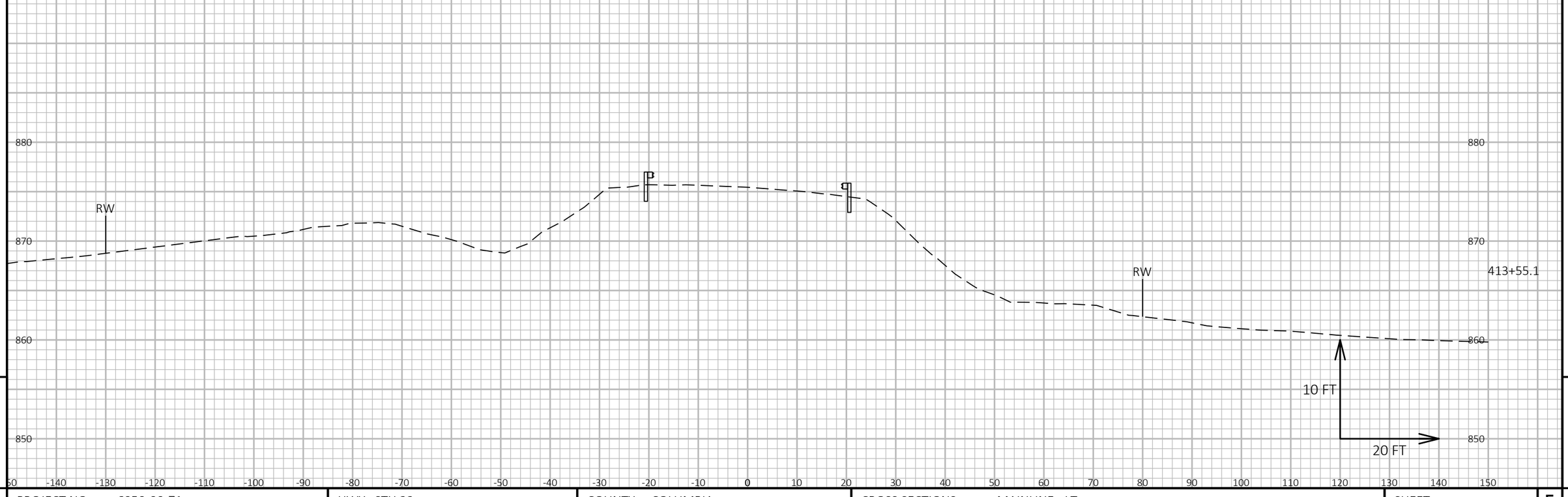
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 363	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 10-3

PLOT DATE : 10/9/2019 8:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 364	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 10-4

PLOT DATE : 10/9/2019 8:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

POST #9 LT

880
870
860
850

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

2.2% 2.2% 2.2%

877.95 877.88 877.51
-12.00 0.00

RW

422+56.5

880
870
860
850

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

RW

422+49.1

10 FT

20 FT

9

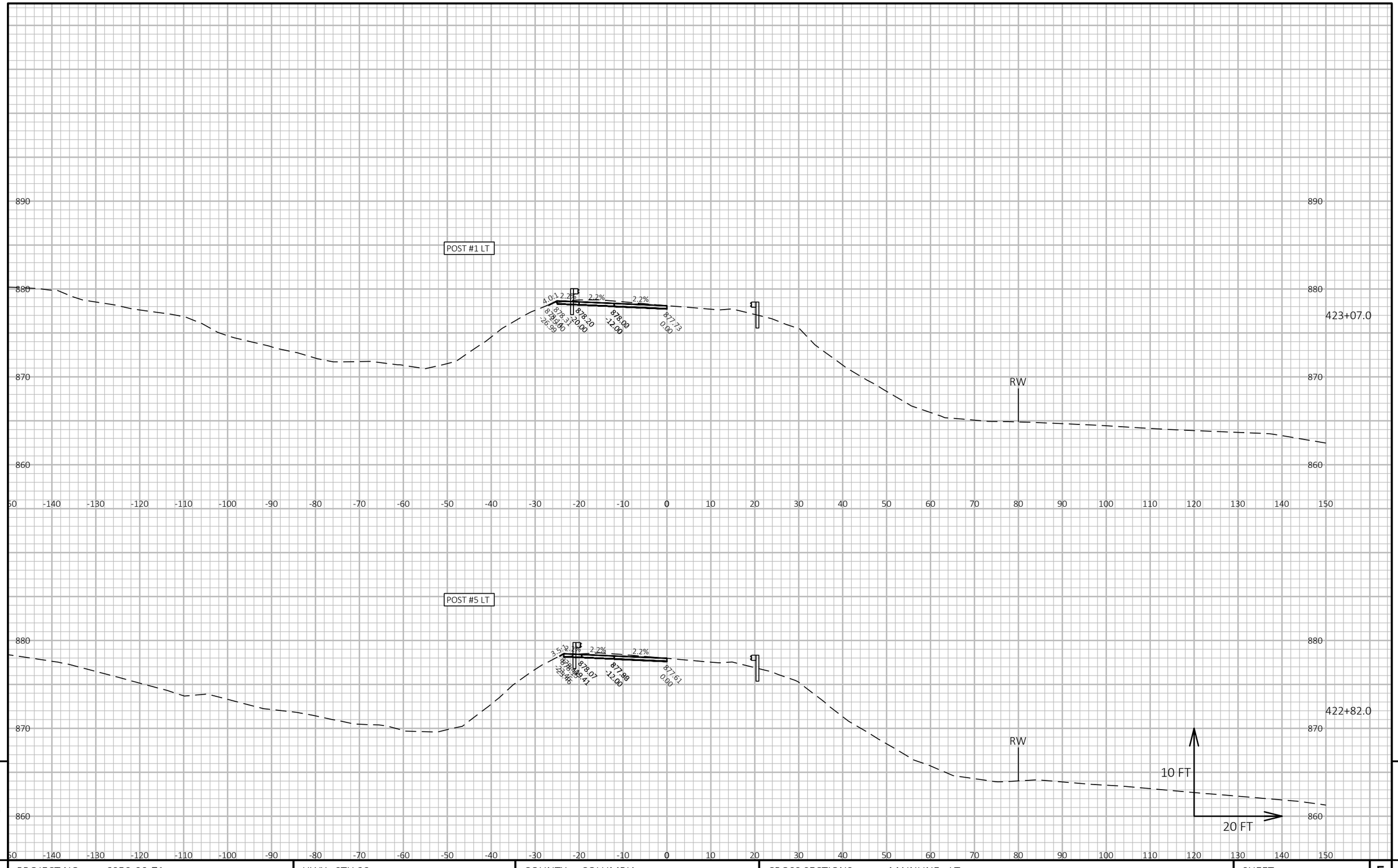
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 365	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 10-5

PLOT DATE : 10/9/2019 8:37 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

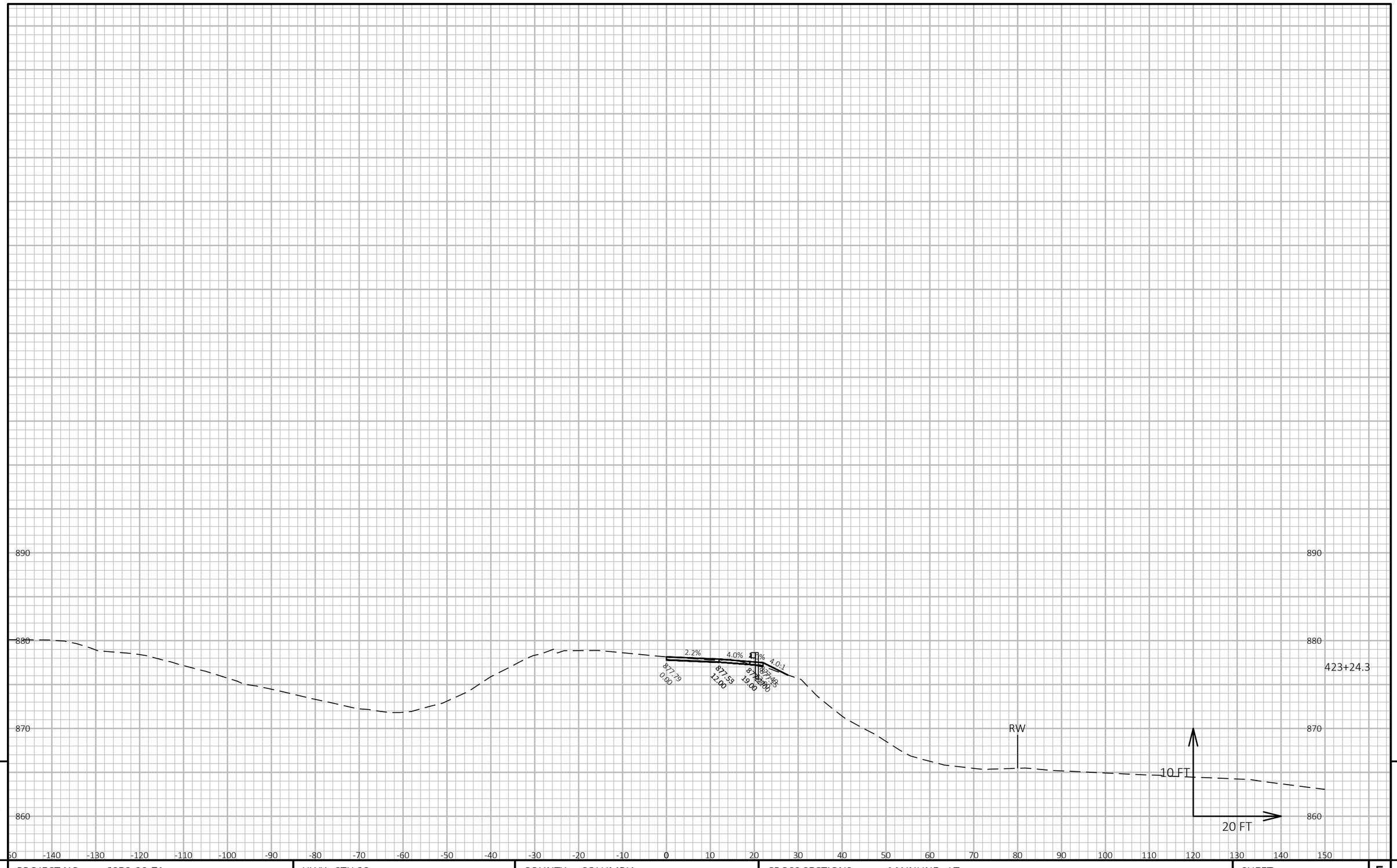
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 366	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 10-6

PLOT DATE : 10/9/2019 8:37 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 367	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 10-7

PLOT DATE : 10/9/2019 8:37 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

910
900
890
880
870

RW

438+05.4

RW

10 FT

20 FT

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

9

9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 368	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 11-1

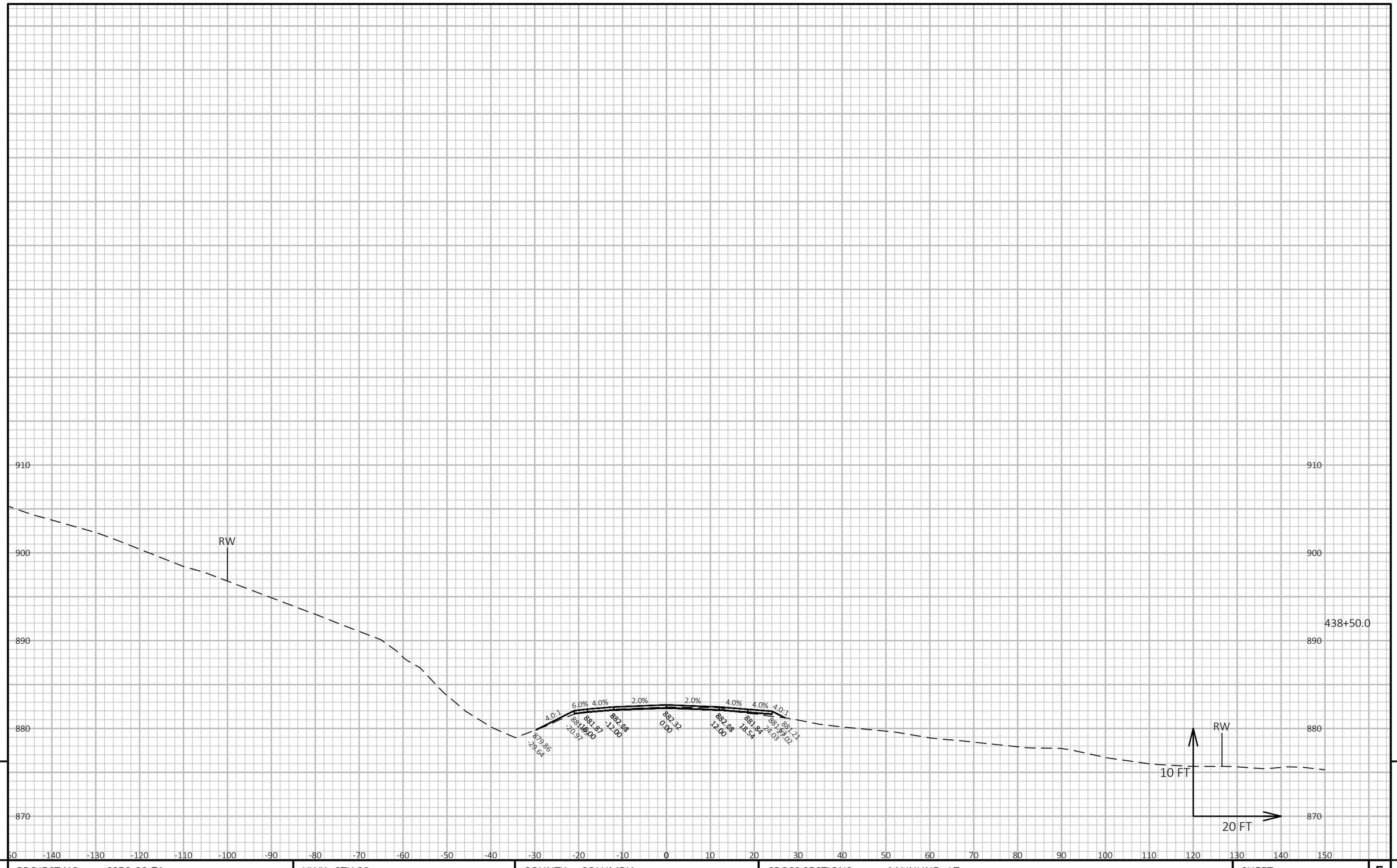
PLOT DATE : 10/9/2019 8:37 PM

PLOT BY : NELSON, JOSHUA B

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



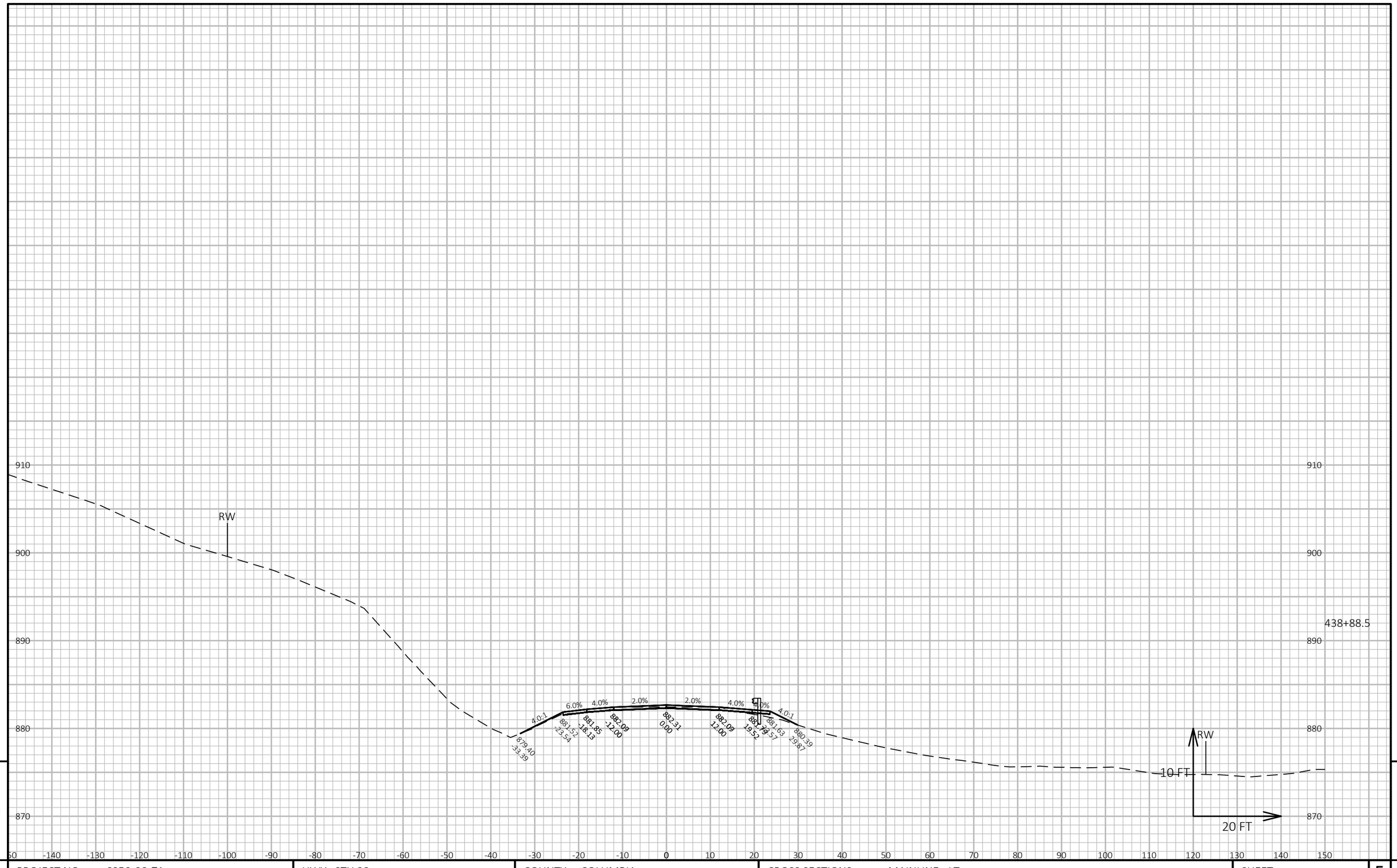
9 9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 369	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 11-2

PLOT DATE : 10/9/2019 8:37 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

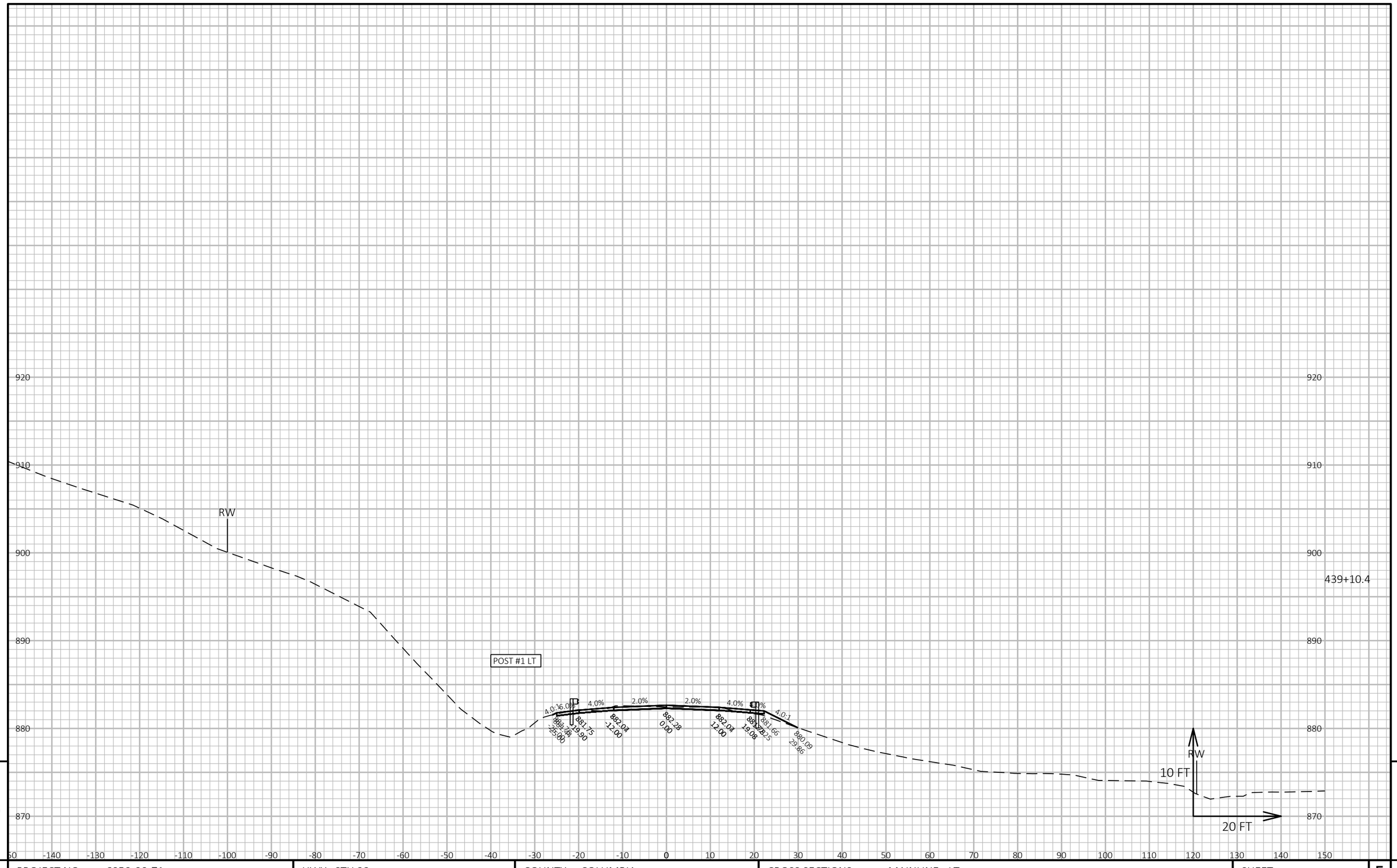


9 9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 370	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 11-3

PLOT DATE : 10/9/2019 8:37 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 371	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 11-4

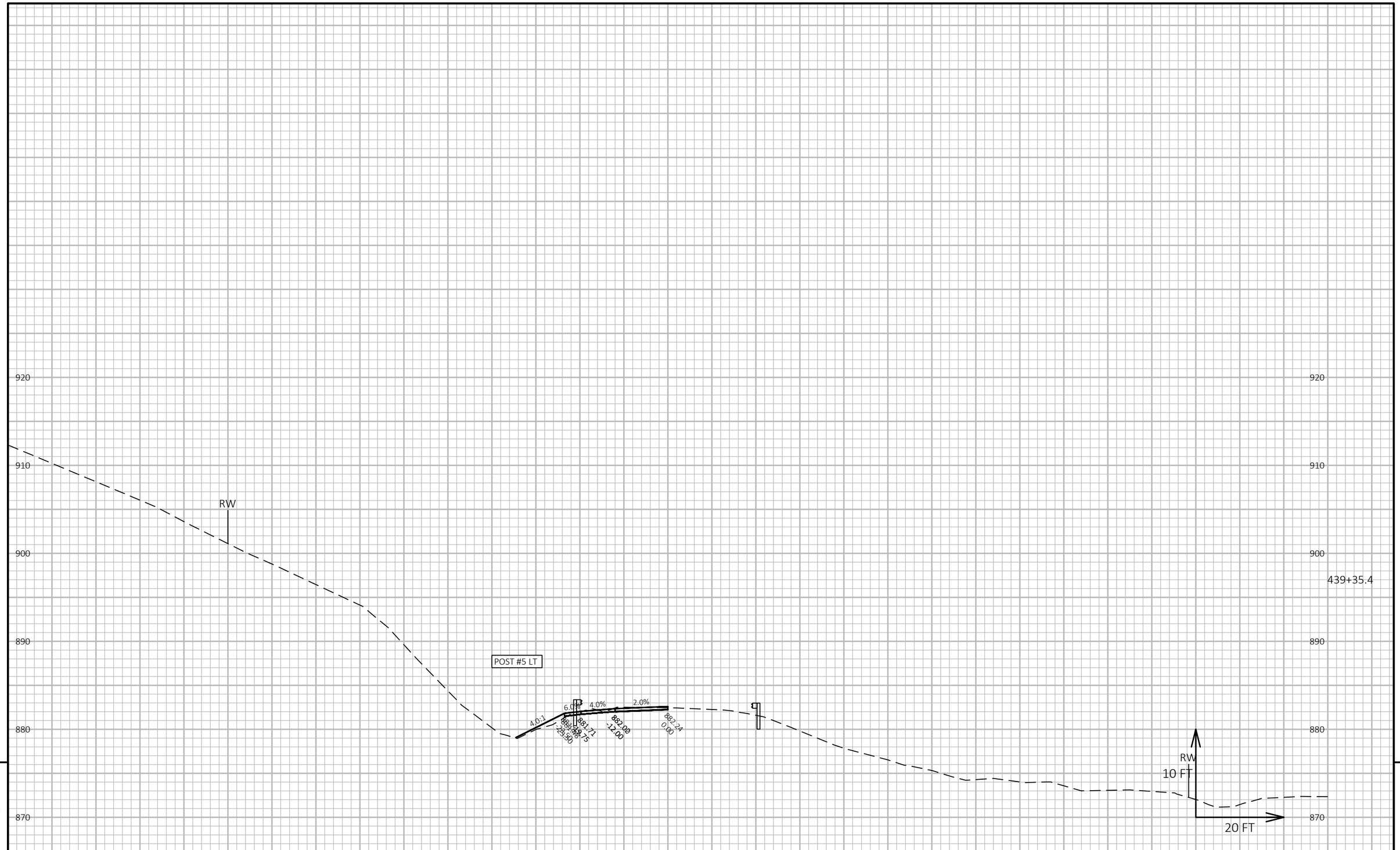
PLOT DATE : 10/9/2019 8:37 PM

PLOT BY : NELSON, JOSHUA B

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

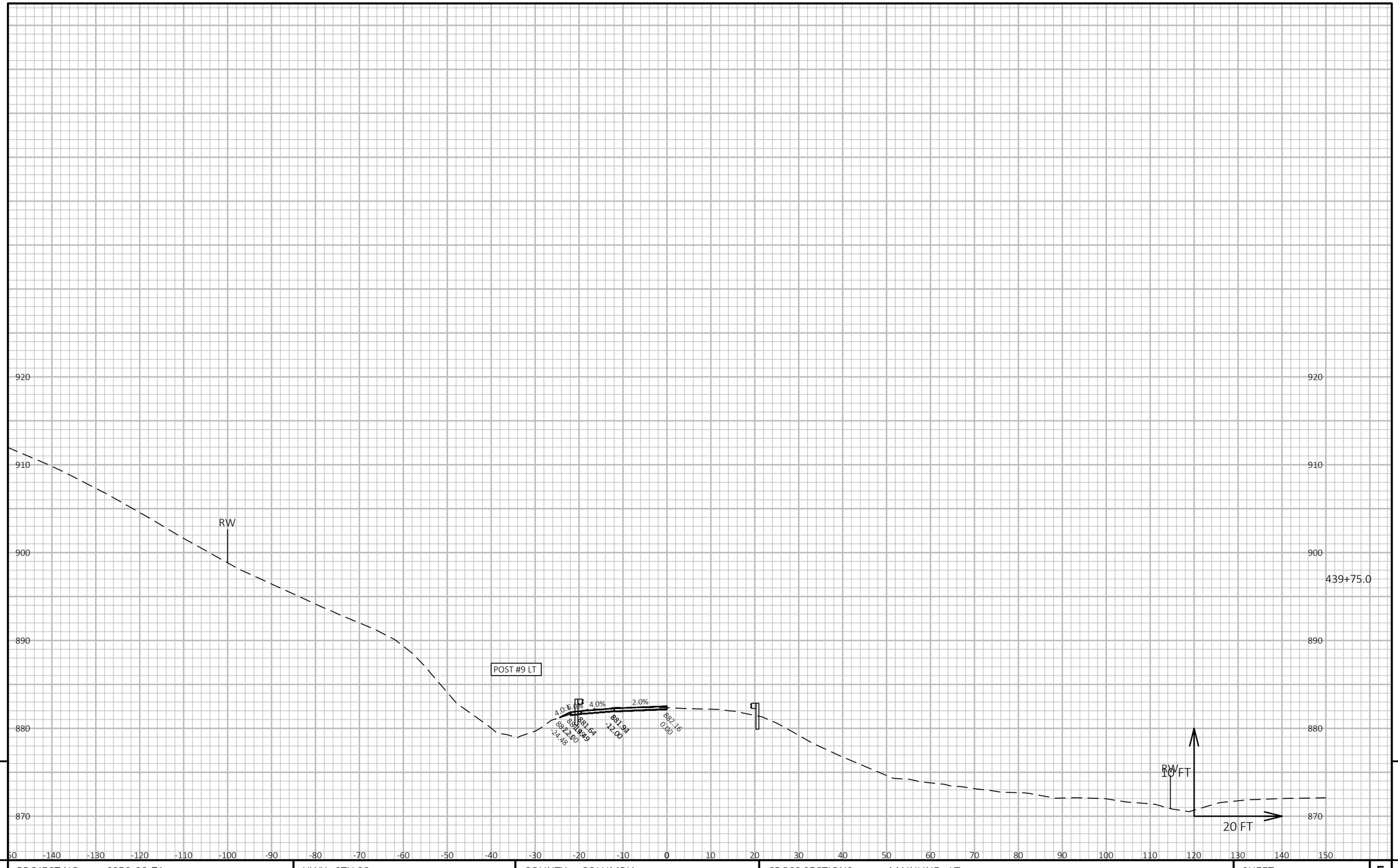
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 372	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 11-5

PLOT DATE : 10/9/2019 8:37 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 373	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 11-6

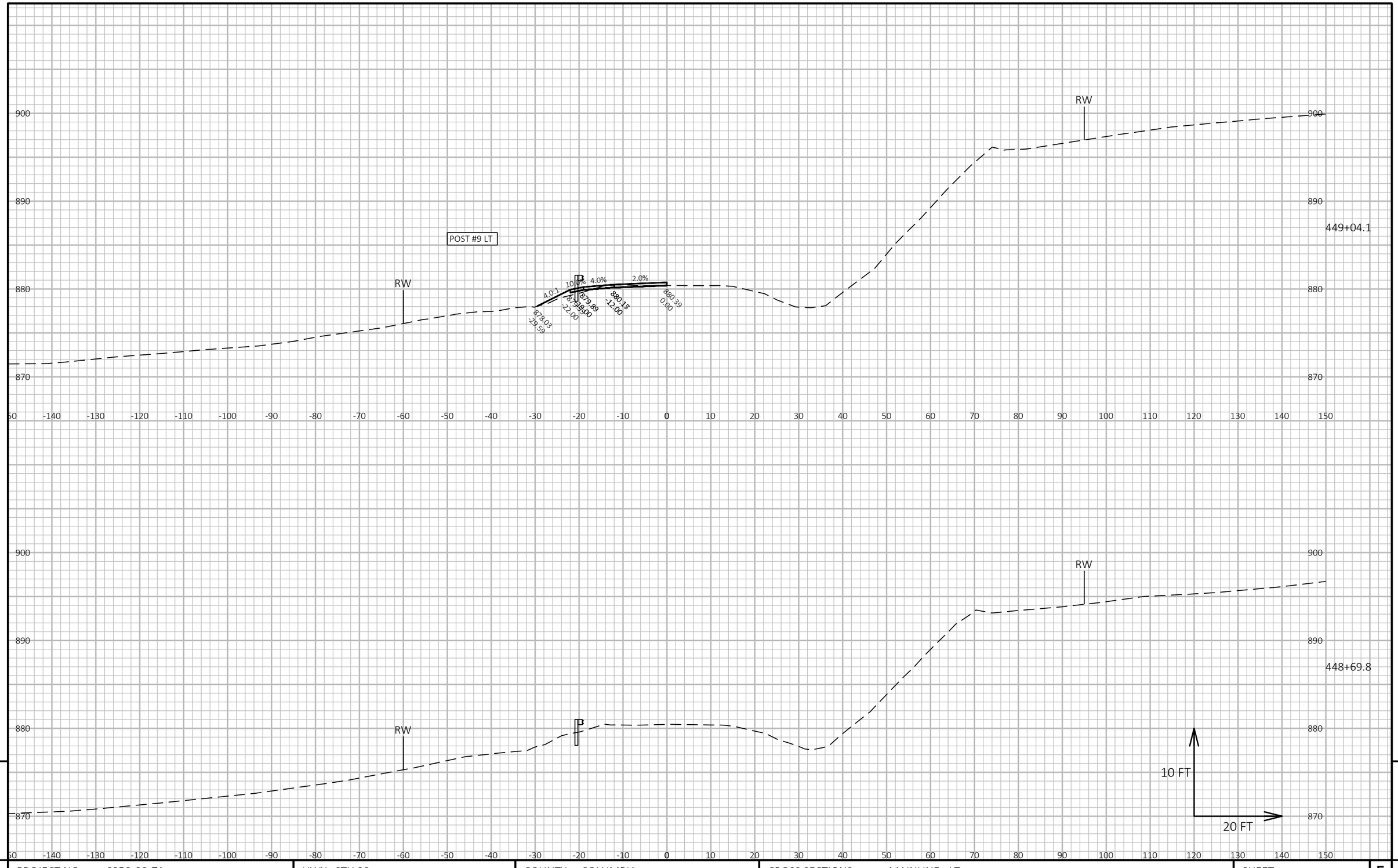
PLOT DATE : 10/9/2019 8:38 PM

PLOT BY : NELSON, JOSHUA B

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

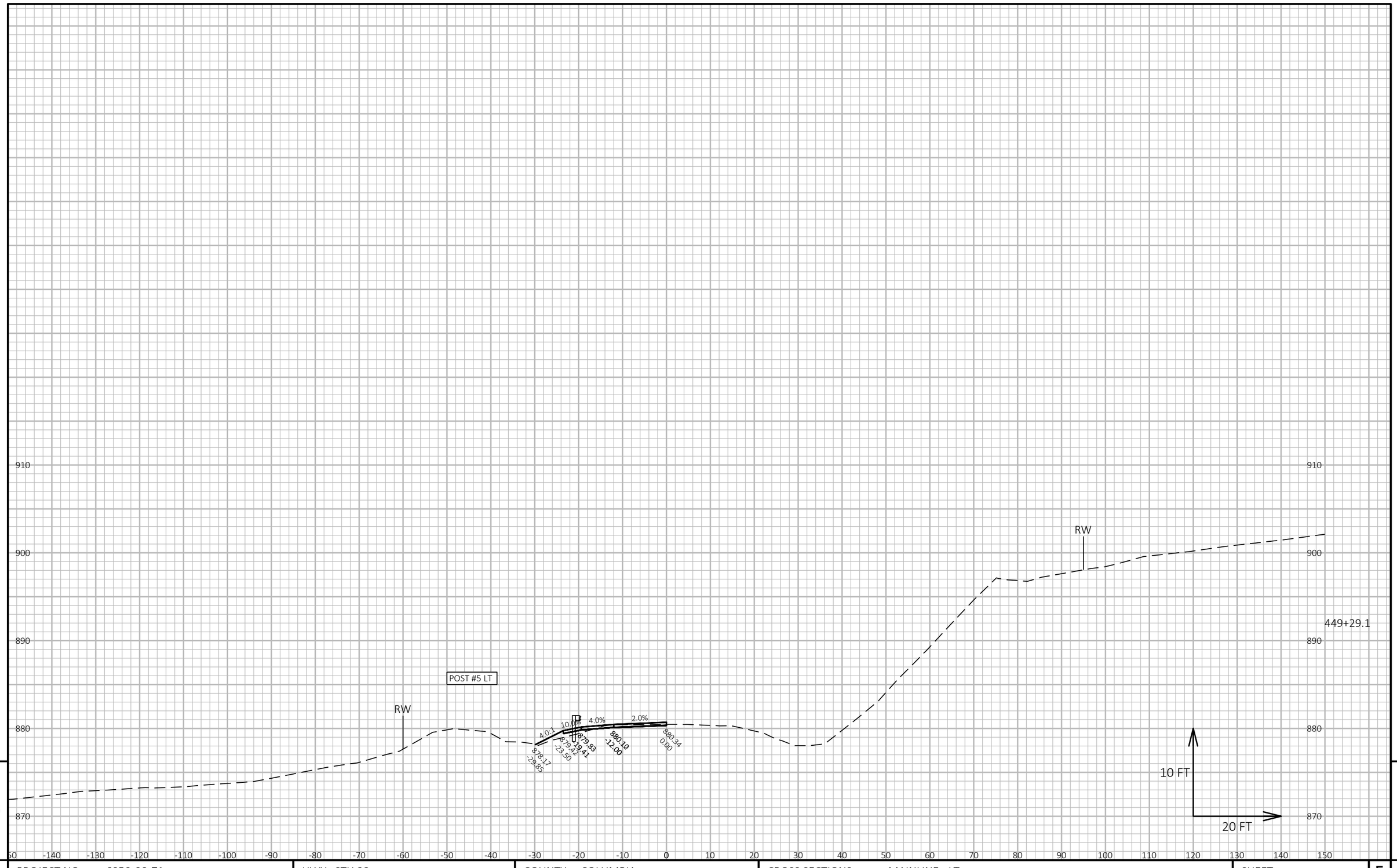
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 374	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 11-7

PLOT DATE : 10/9/2019 8:38 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

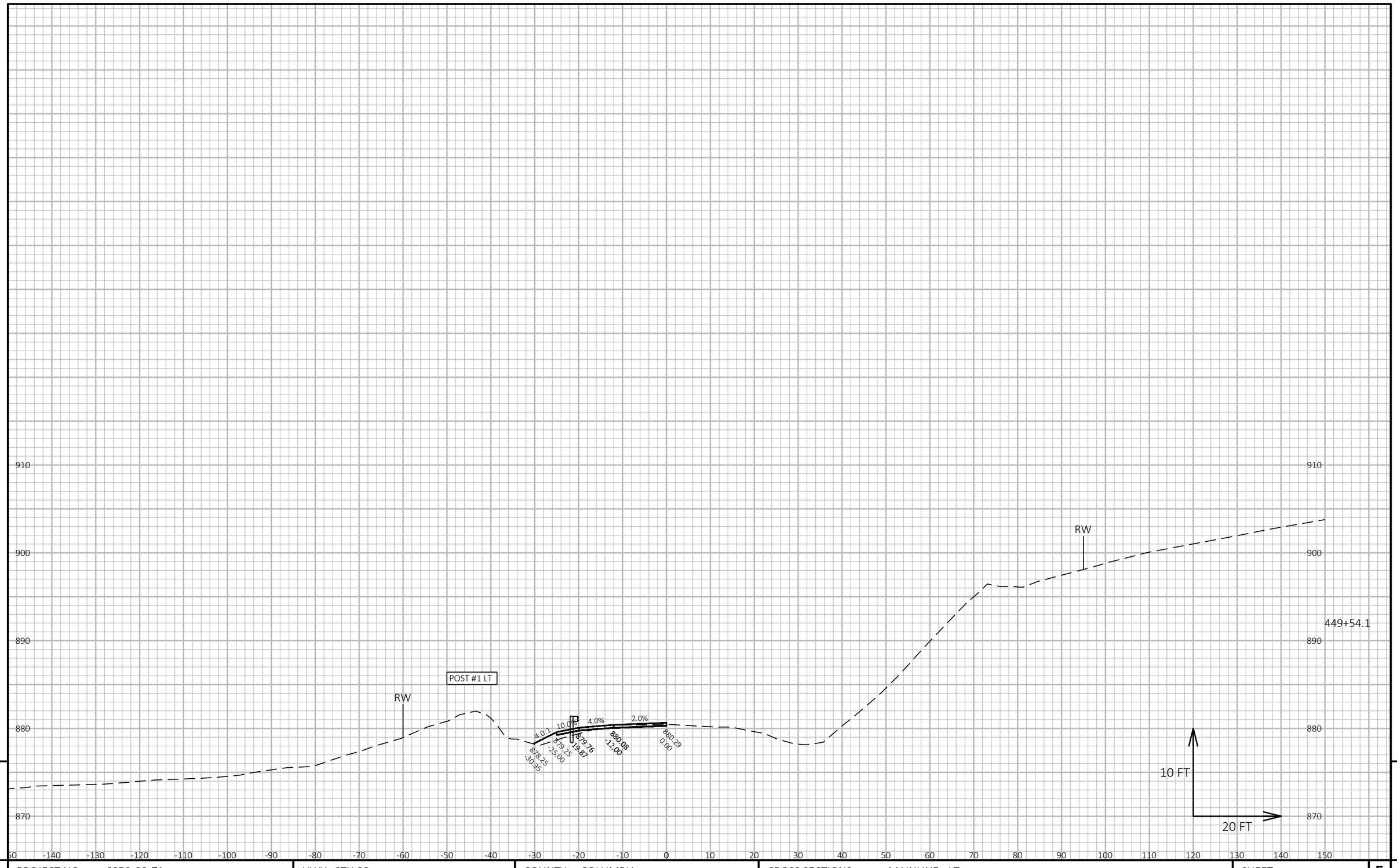
WISDOT/CADDS SHEET 49



PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 375	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 11-8

PLOT DATE : 10/9/2019 8:38 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 376	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 11-9

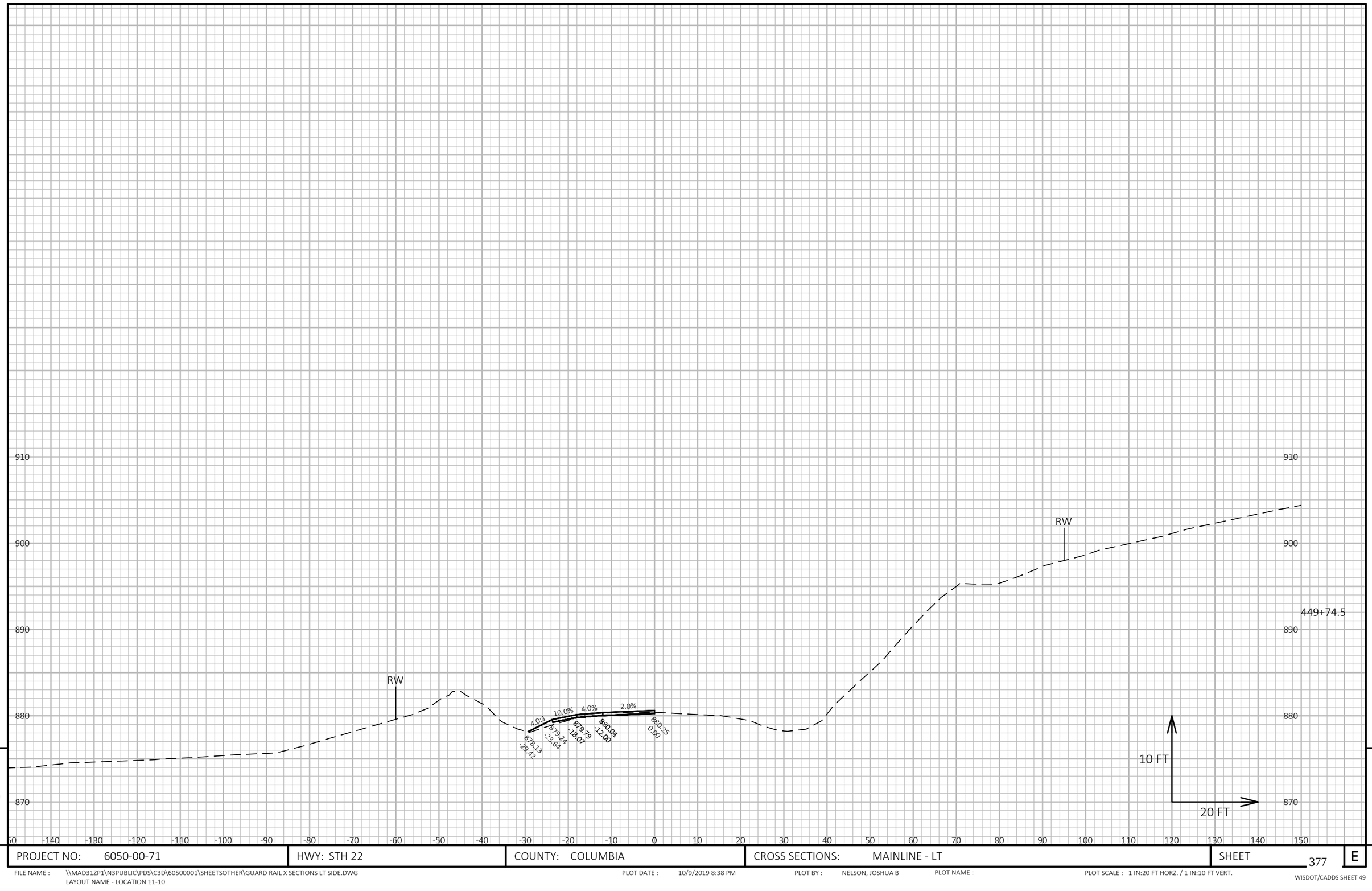
PLOT DATE : 10/9/2019 8:38 PM

PLOT BY : NELSON, JOSHUA B

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

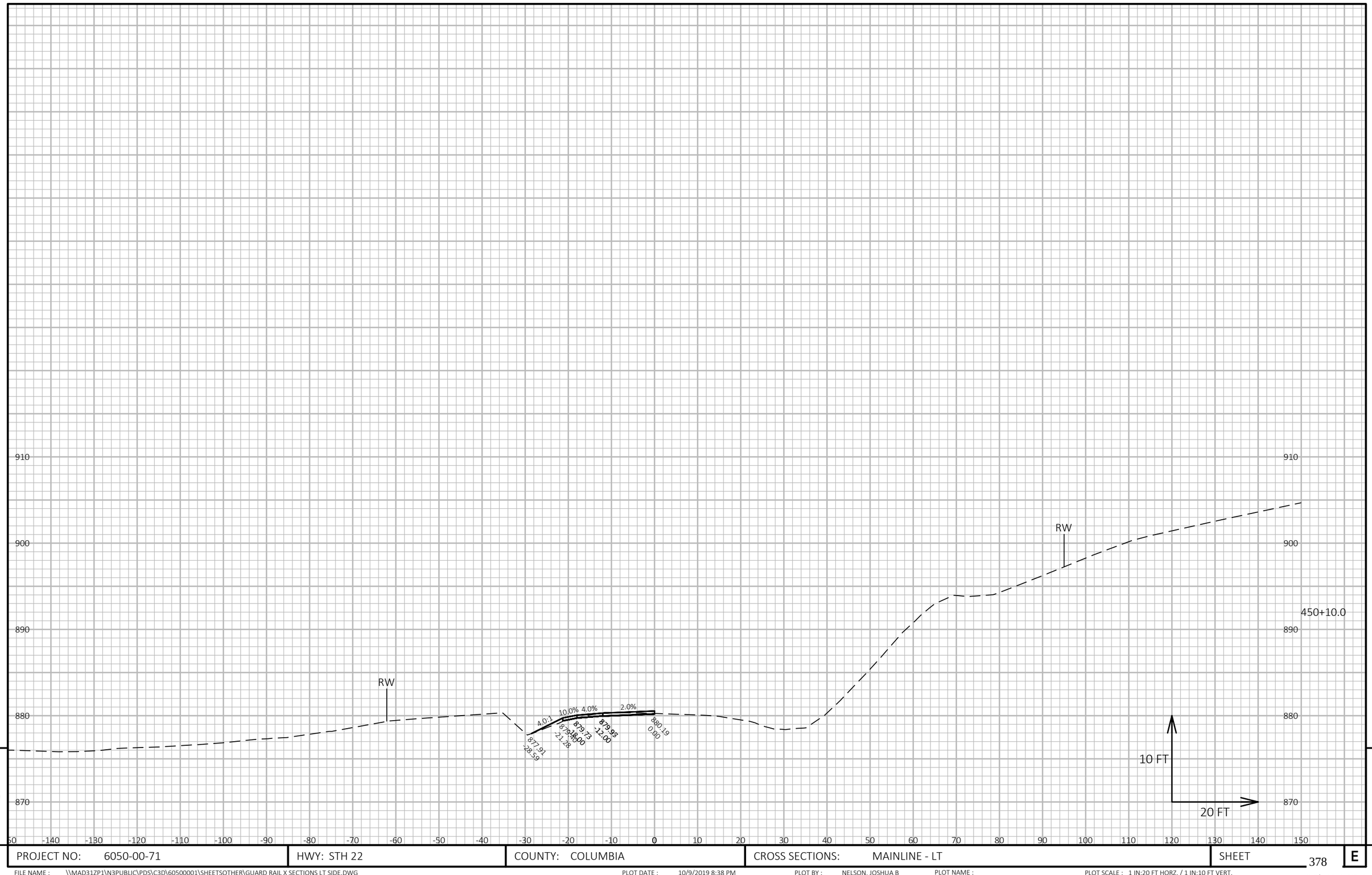
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 377	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 11-10

PLOT DATE : 10/9/2019 8:38 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 378	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 11-11

PLOT DATE : 10/9/2019 8:38 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

910
900
890
880
870

RW
RW

450+59.1

10 FT
20 FT

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

9

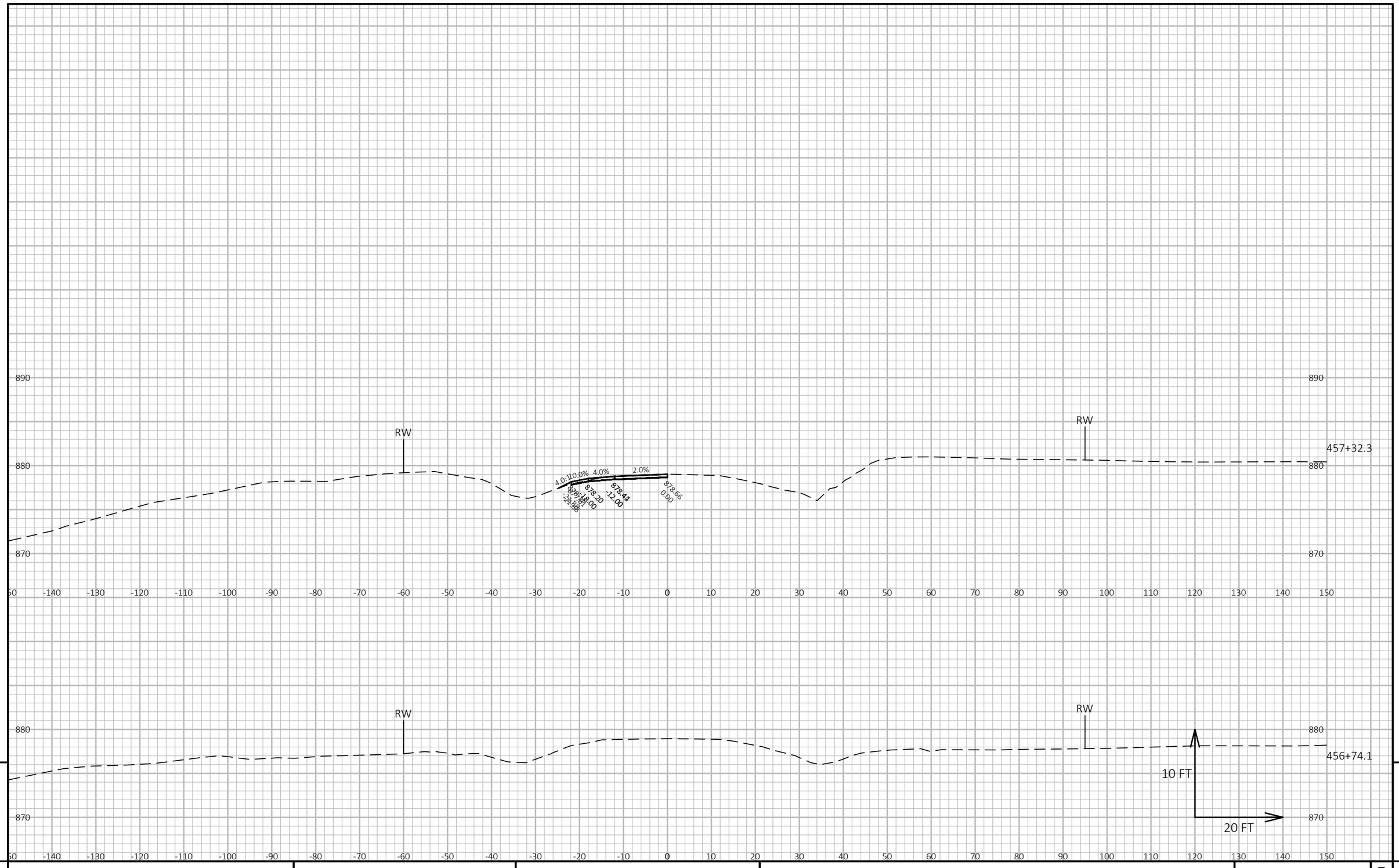
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 379	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 11-12

PLOT DATE : 10/9/2019 8:38 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

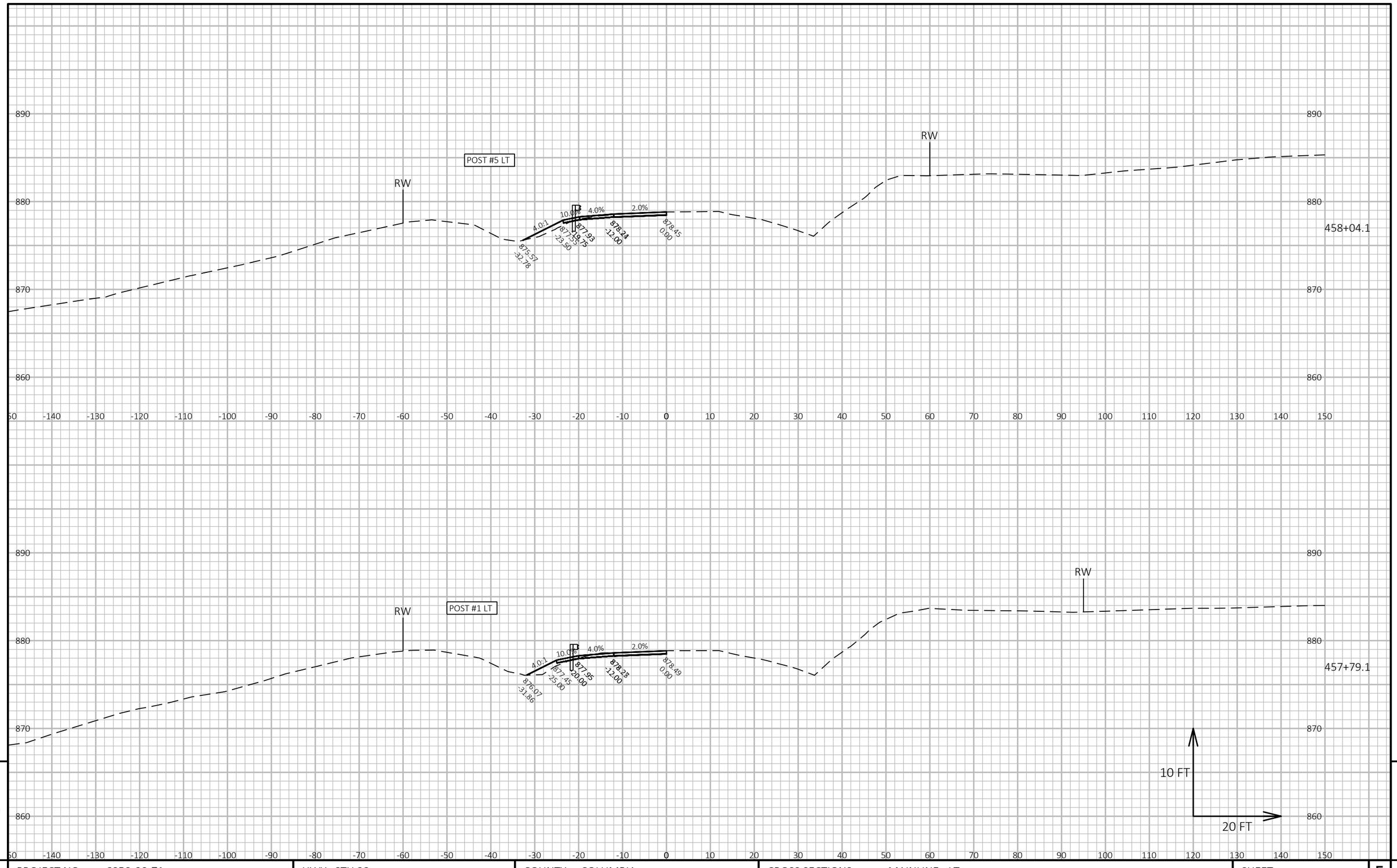
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 380	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 12-1

PLOT DATE : 10/9/2019 8:38 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 381	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 12-2

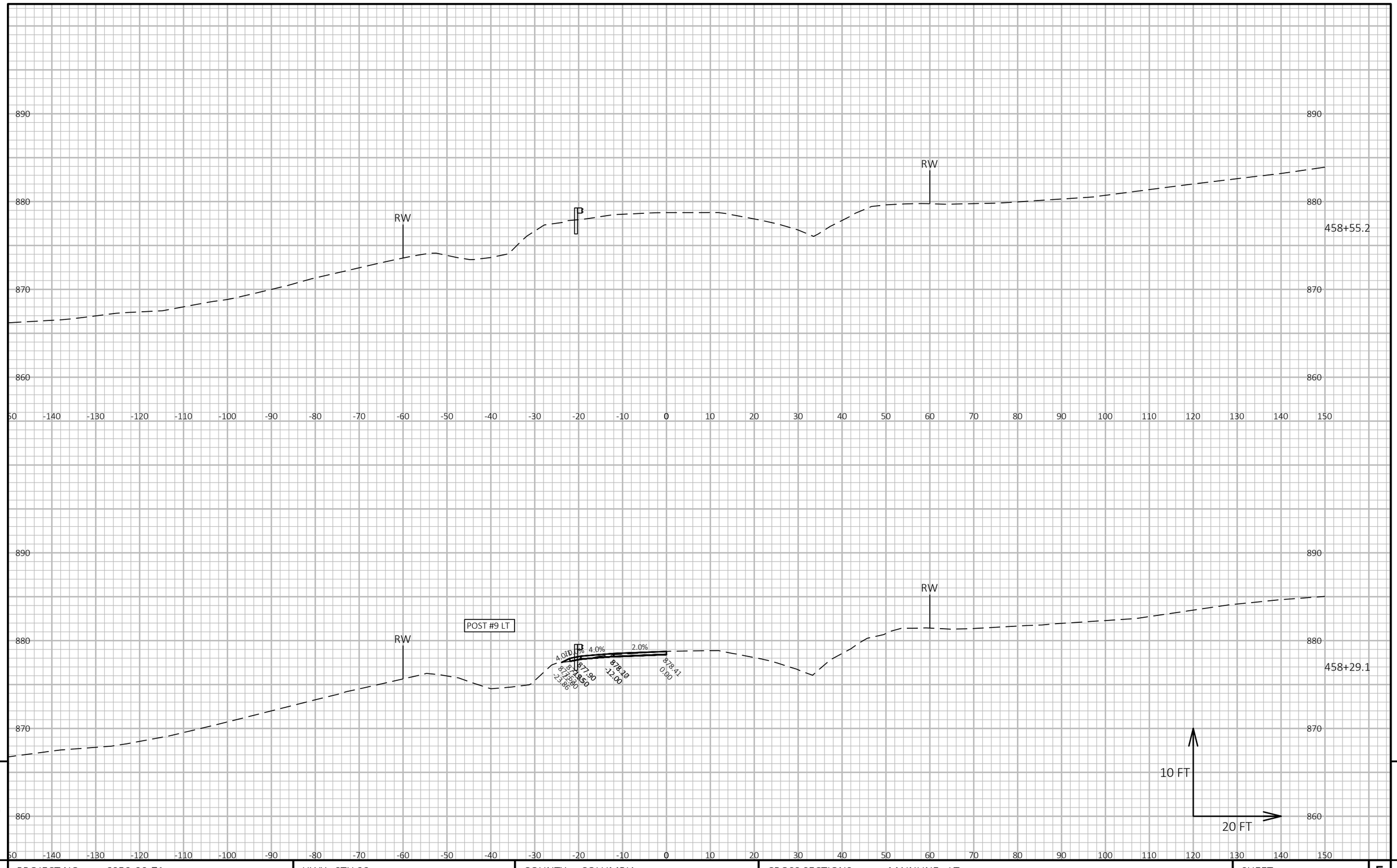
PLOT DATE : 10/9/2019 8:38 PM

PLOT BY : NELSON, JOSHUA B

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

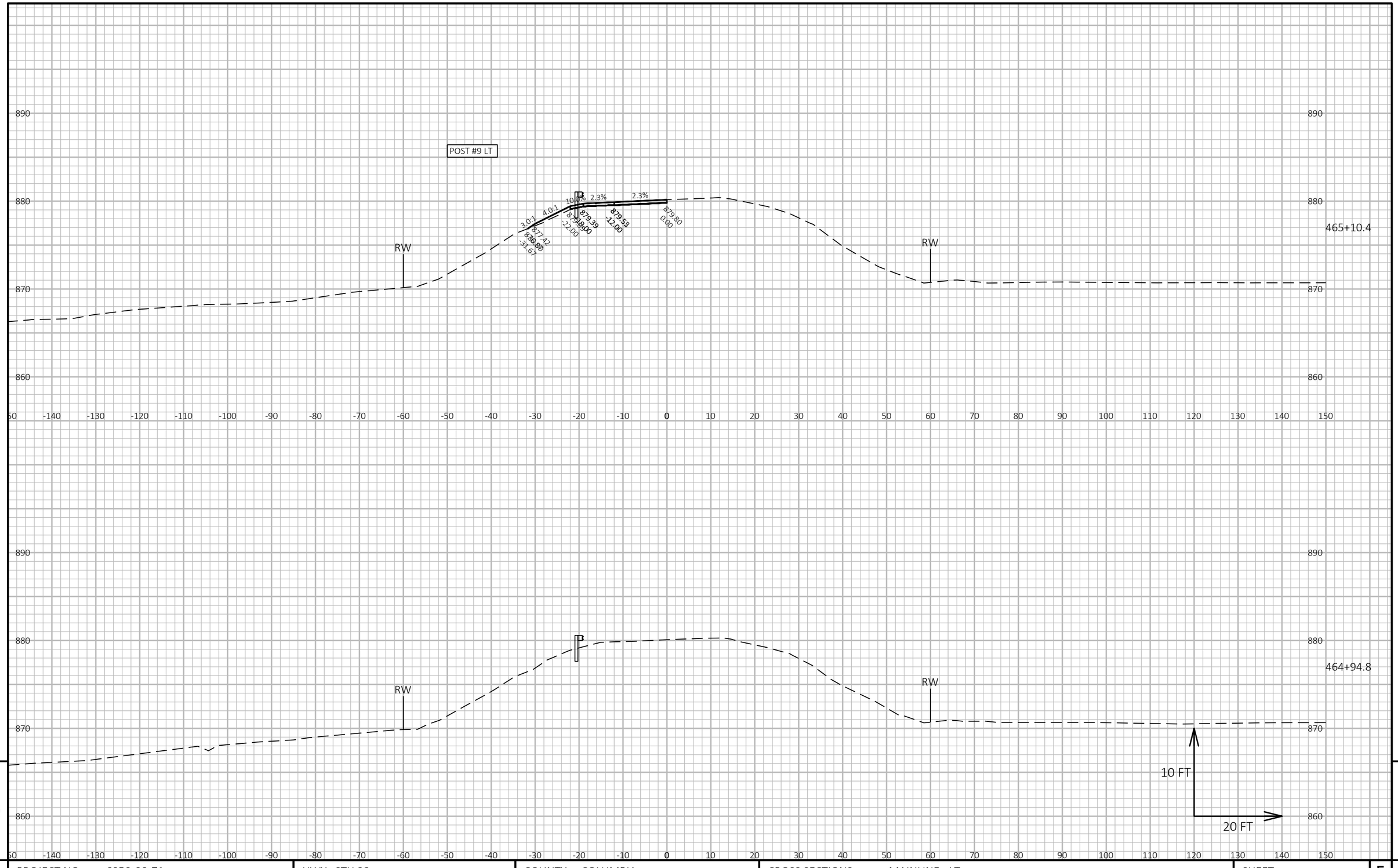
9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 382	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 12-3

PLOT DATE : 10/9/2019 8:39 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 383	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 12-4

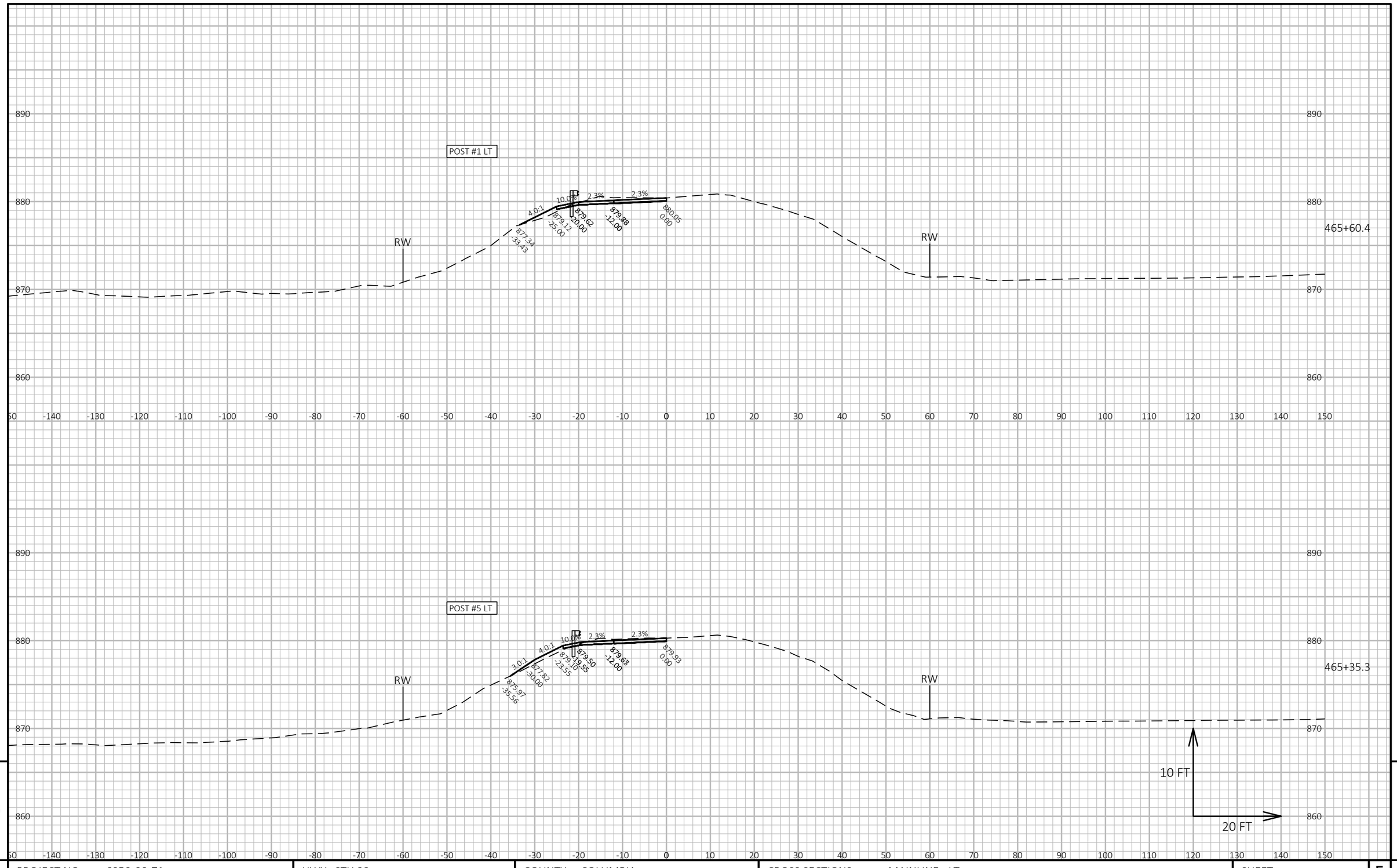
PLOT DATE : 10/9/2019 8:39 PM

PLOT BY : NELSON, JOSHUA B

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



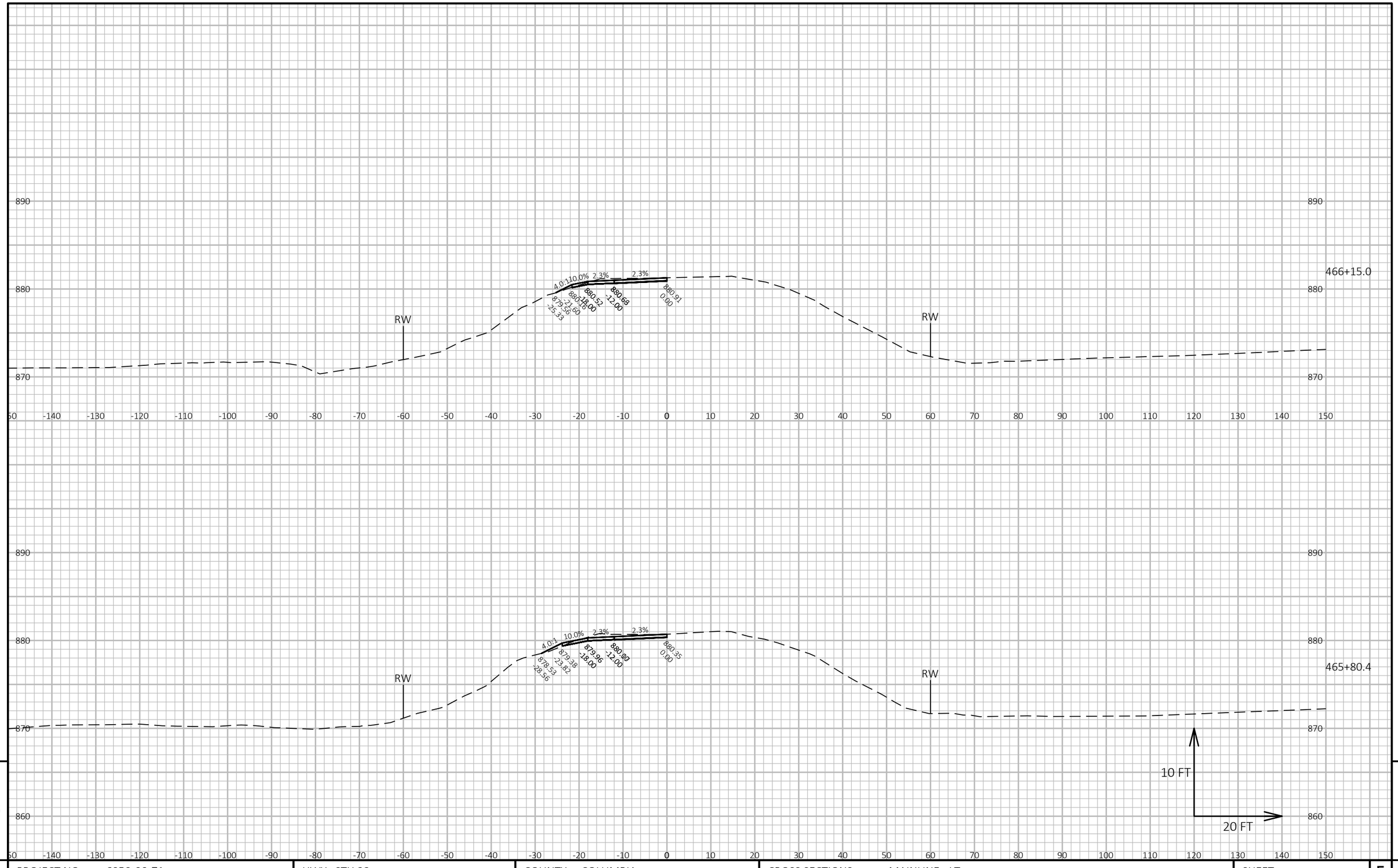
9 9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 384	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 12-5

PLOT DATE : 10/9/2019 8:39 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

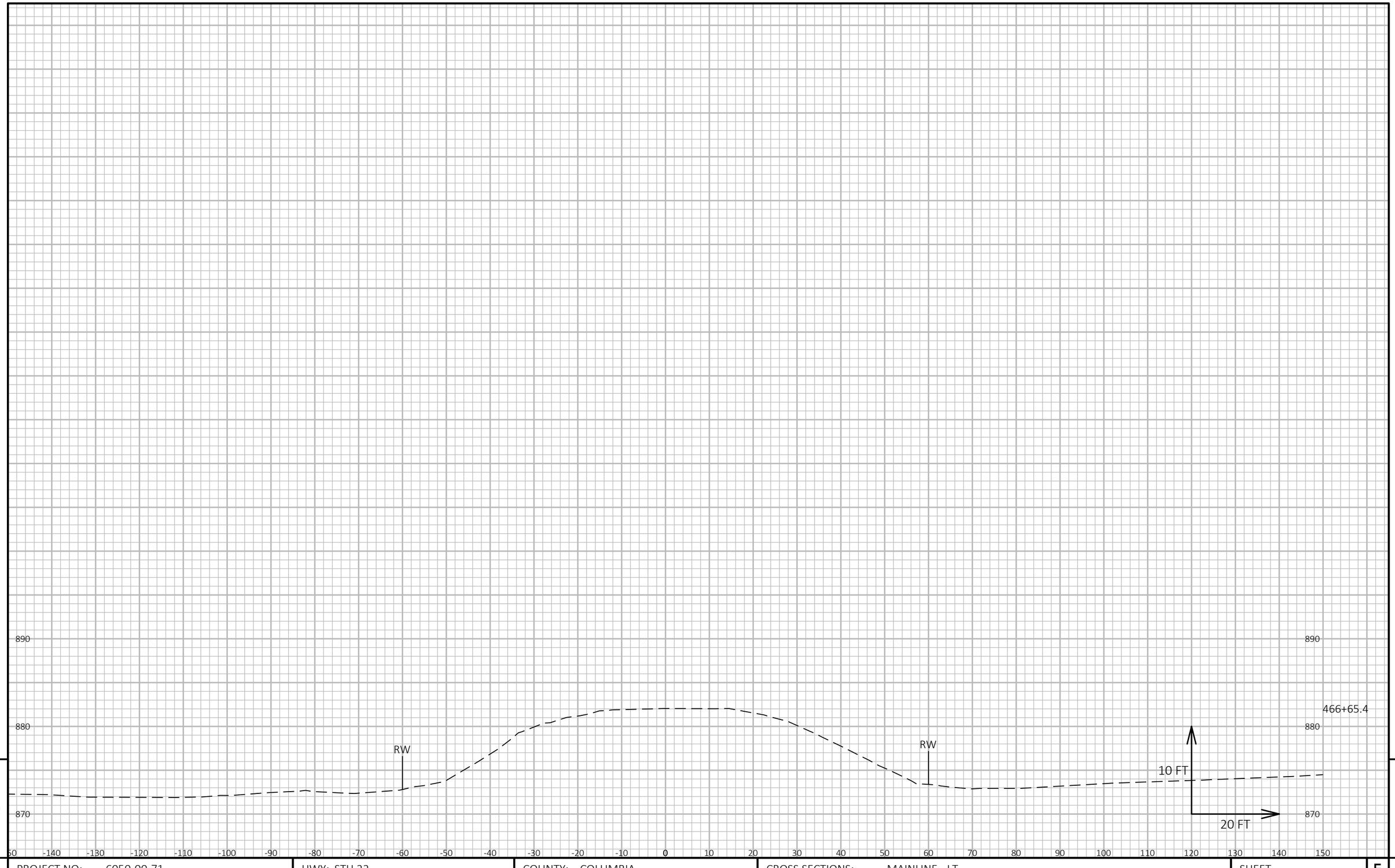
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 385	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 12-6

PLOT DATE : 10/9/2019 8:39 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



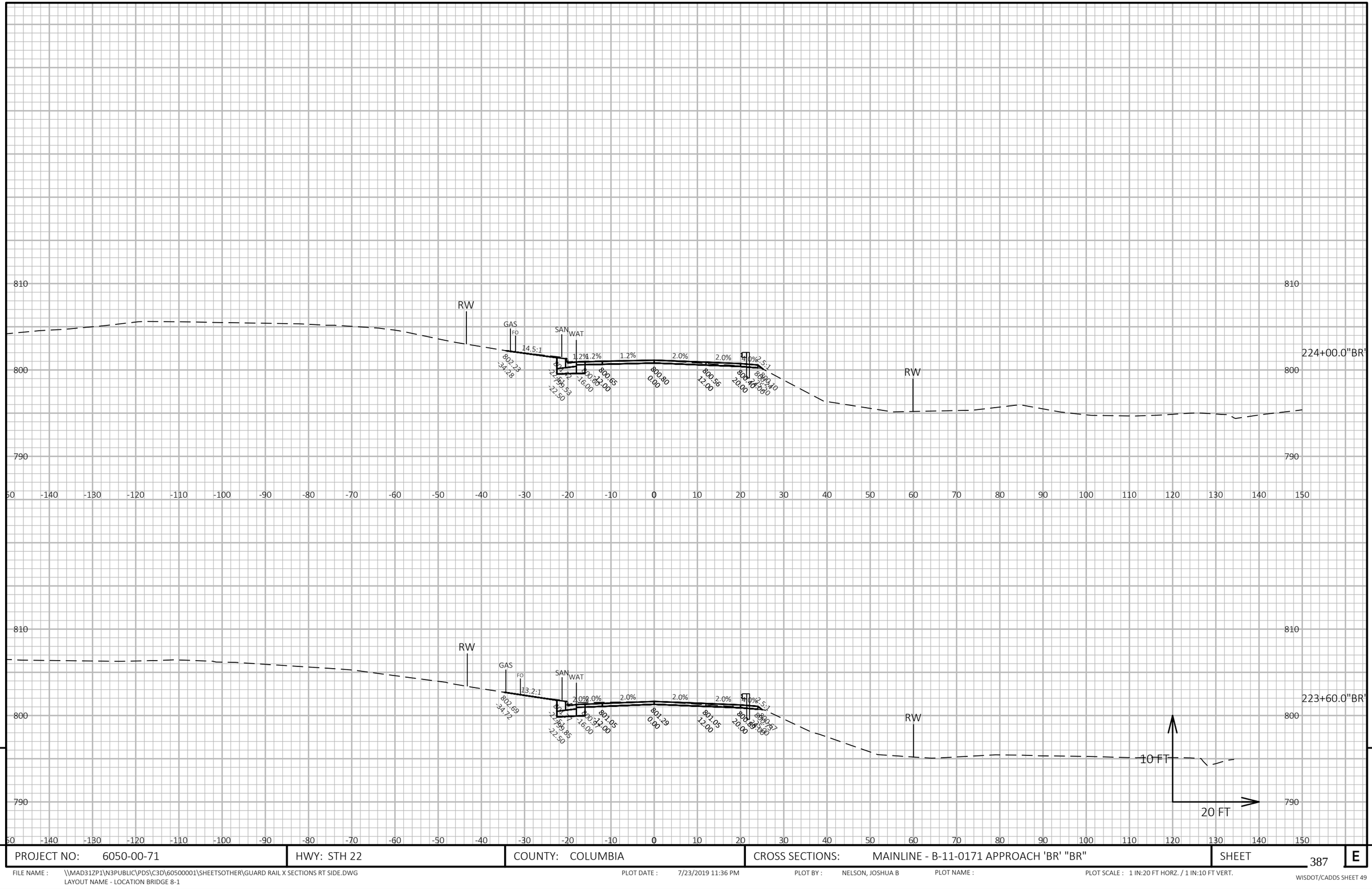
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9

PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - LT	SHEET 386	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS LT SIDE.DWG
LAYOUT NAME - LOCATION 12-7

PLOT DATE : 10/9/2019 8:39 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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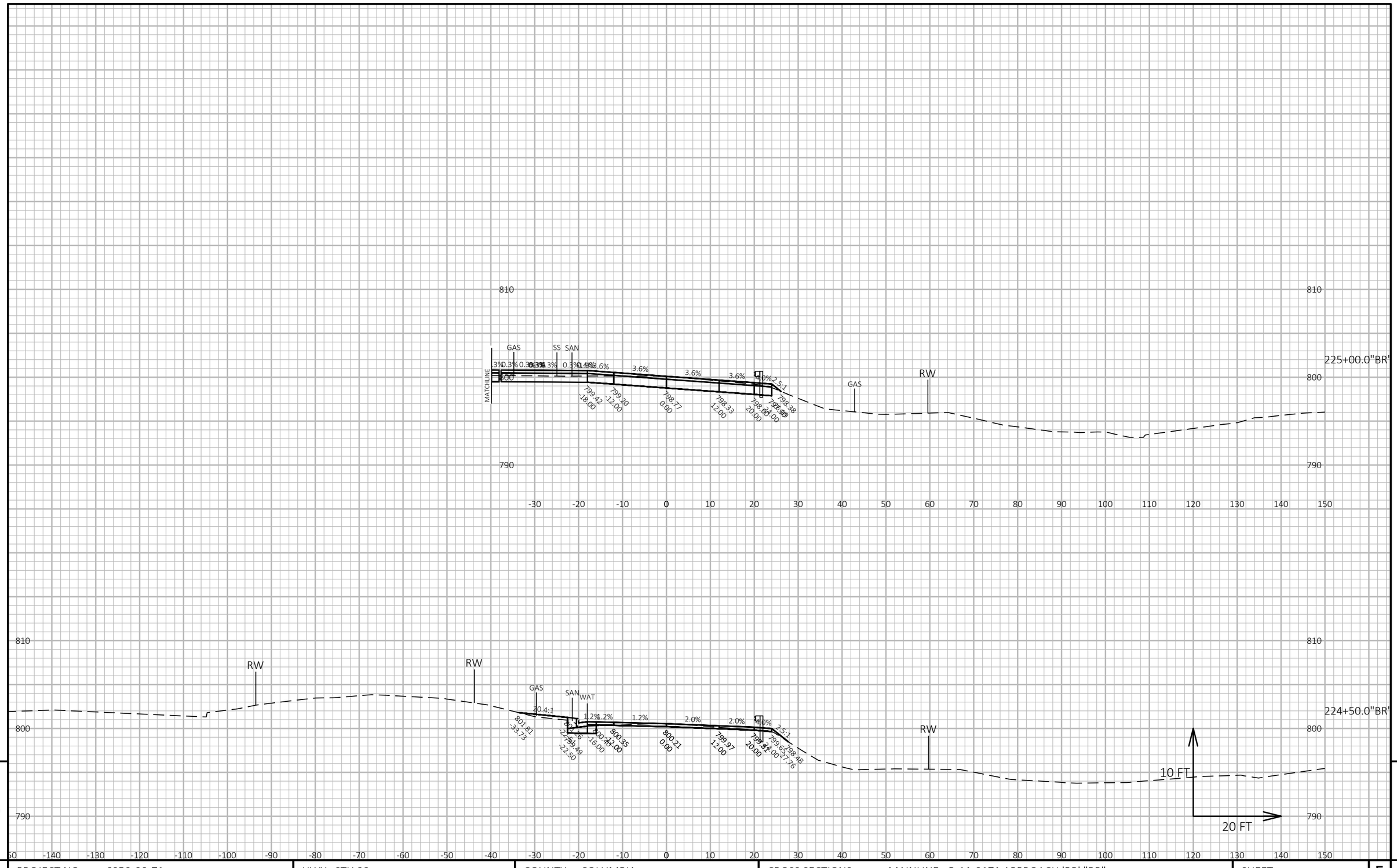
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - B-11-0171 APPROACH 'BR' "BR"	SHEET 387	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION BRIDGE 8-1

PLOT DATE : 7/23/2019 11:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



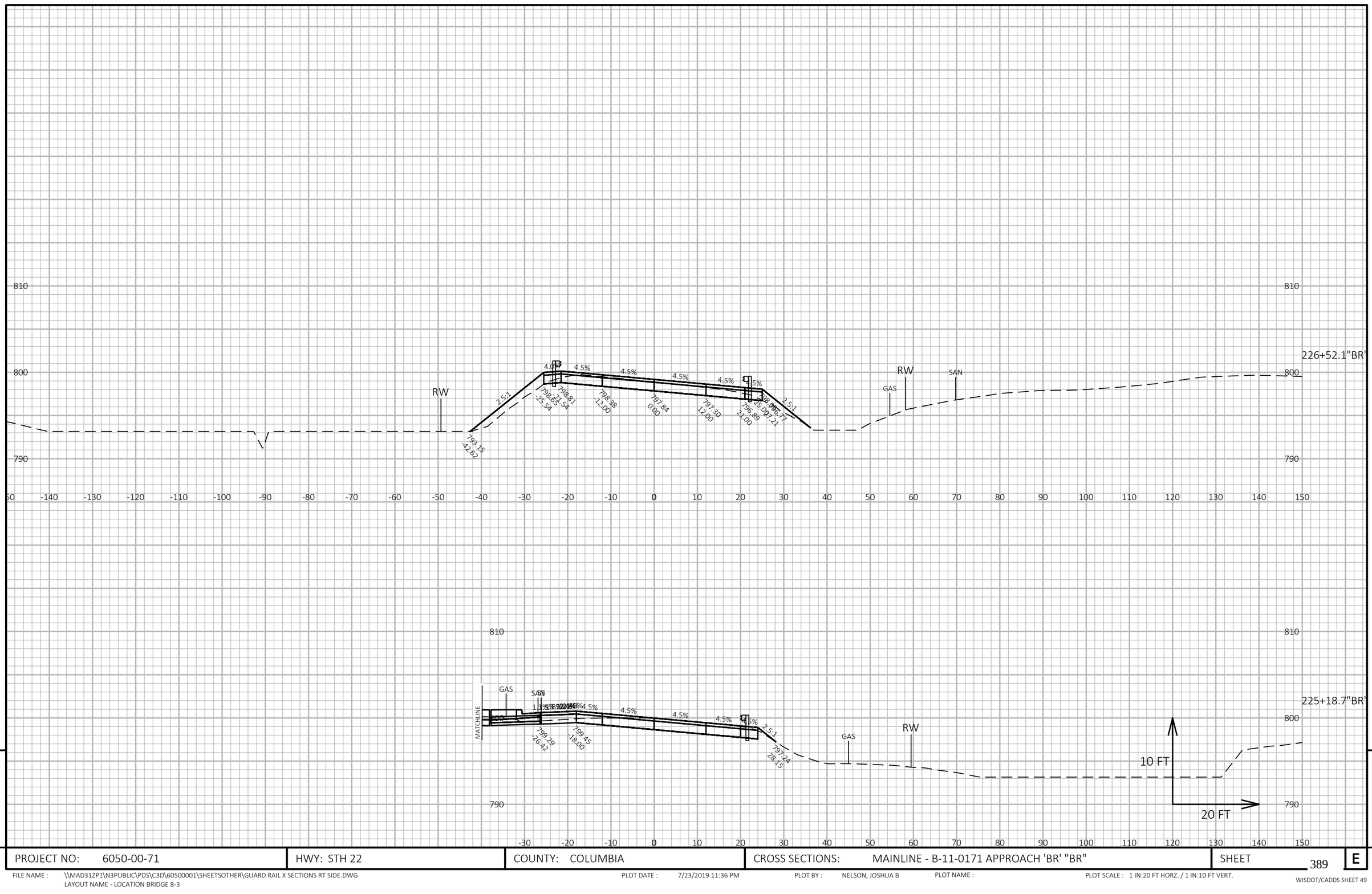
PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - B-11-0171 APPROACH 'BR' "BR"	SHEET 388	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION BRIDGE 8-2

PLOT DATE : 7/23/2019 11:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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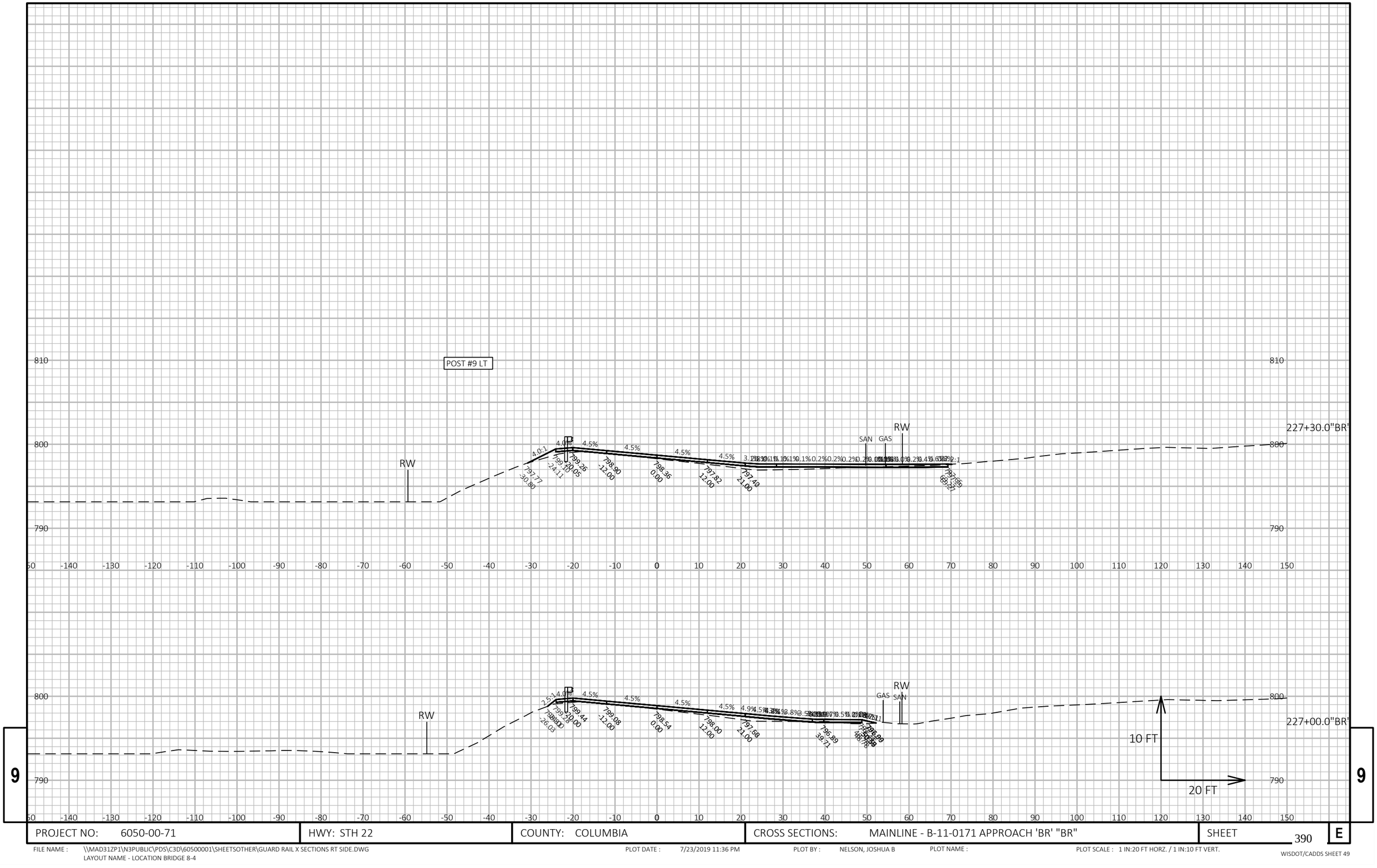
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - B-11-0171 APPROACH 'BR' "BR"	SHEET 389	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION BRIDGE 8-3

PLOT DATE : 7/23/2019 11:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - B-11-0171 APPROACH 'BR' "BR"	SHEET 390	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION BRIDGE 8-4

PLOT DATE : 7/23/2019 11:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

POST #1 LT

RW

4.0:1 4.0% 5.2% 5.2% 5.2% 5.2% 5.2% 4.0:1

796.96 -36.56 | 797.01 -26.99 | 799.21 -22.00 | 798.69 -12.00 | 798.07 0.00 | 797.49 11.05 | 24.00

RW SAN GAS

227+80.0"BR'

POST #5 LT

RW

4.0:1 4.0% 4.5% 4.5% 4.5% 4.5% 4.6% 4.2% 3.5% 4.0:1

797.06 -34.26 | 798.56 -25.27 | 799.14 -20.74 | 798.75 -12.00 | 798.21 0.00 | 797.67 12.00 | 797.25 21.00

RW SAN GAS

227+55.0"BR'

10 FT

20 FT

9

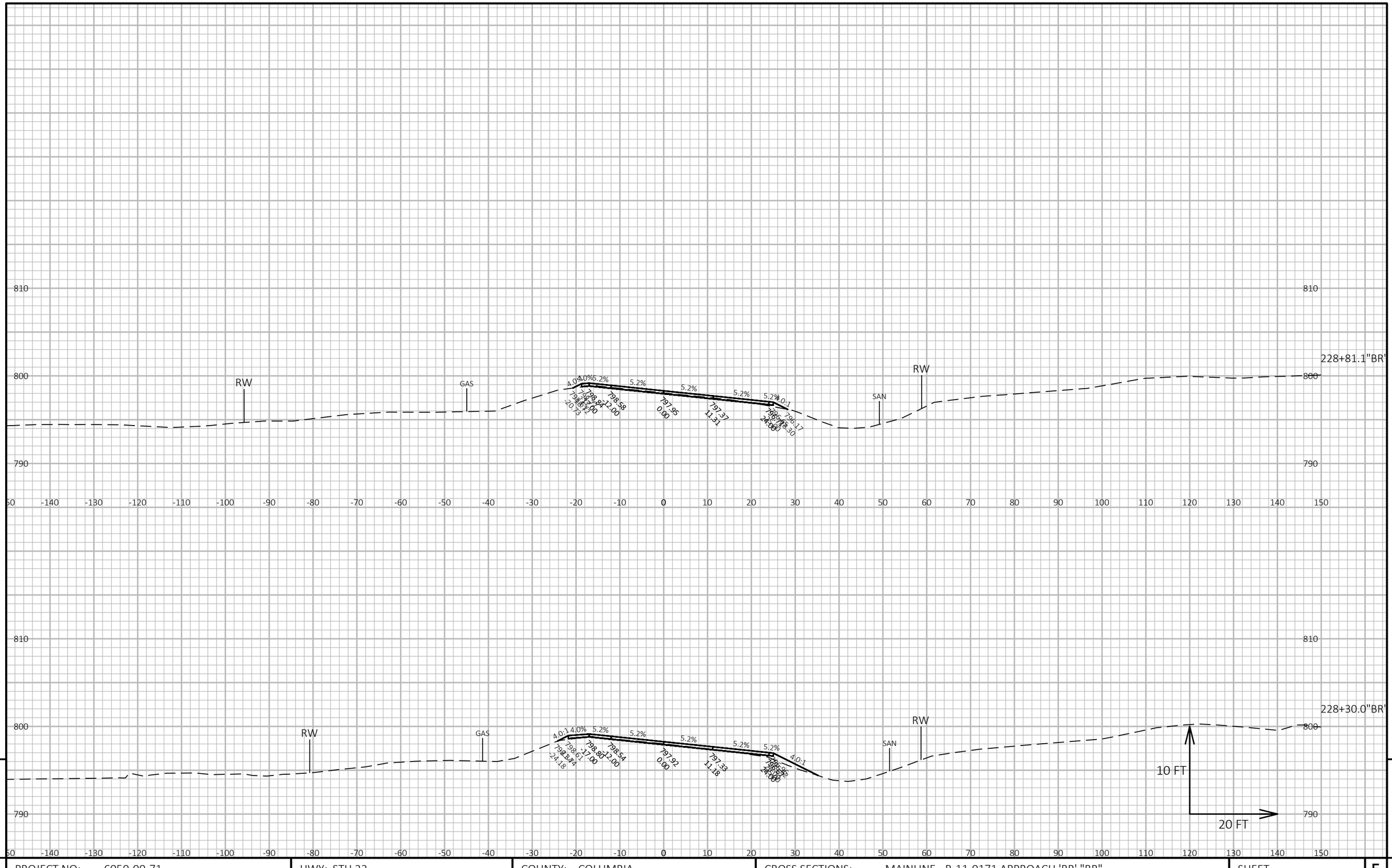
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - B-11-0171 APPROACH 'BR' "BR"	SHEET 391	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION BRIDGE 8-5

PLOT DATE : 7/23/2019 11:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

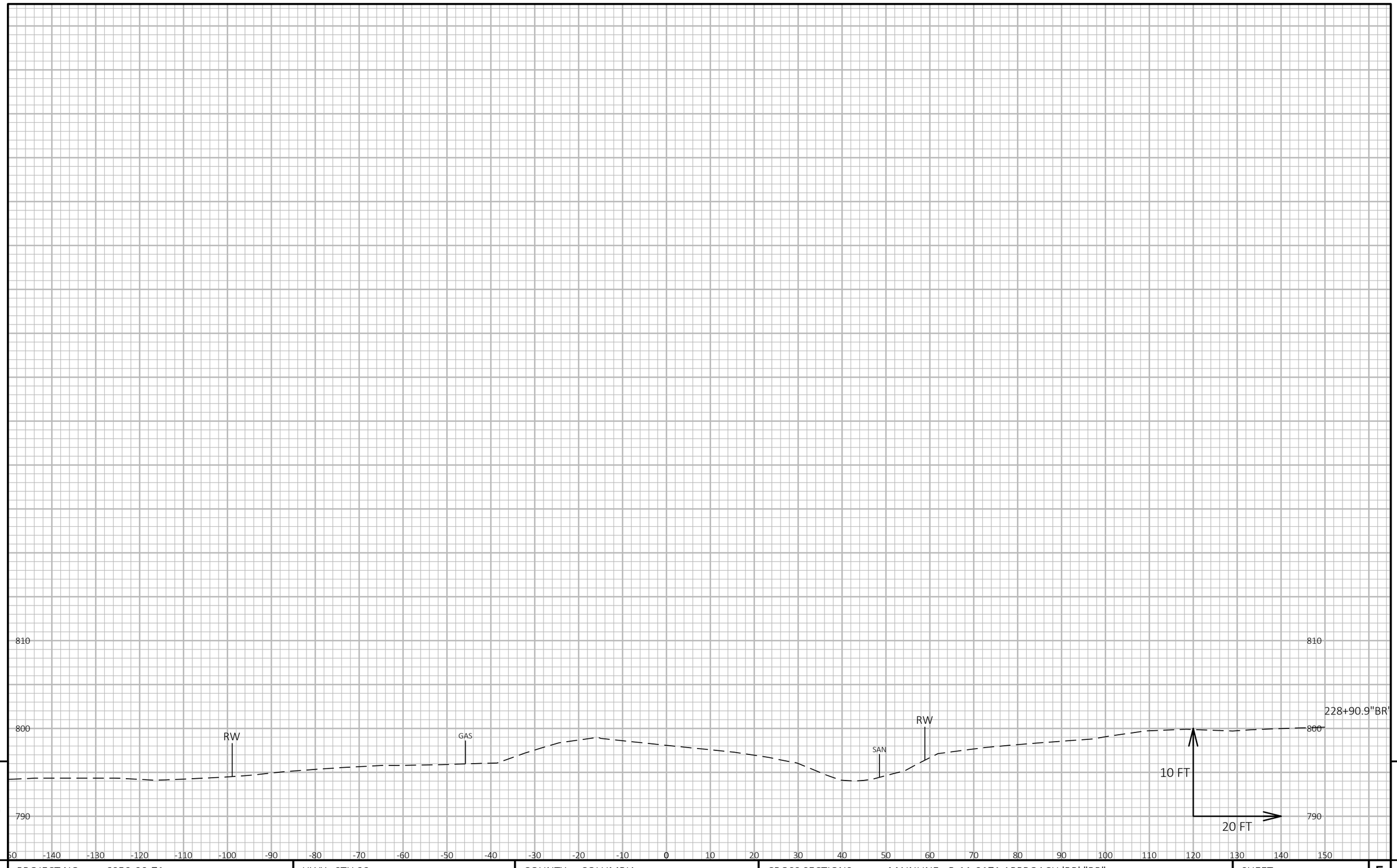


PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - B-11-0171 APPROACH 'BR' "BR"	SHEET 392	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION BRIDGE 8-6

PLOT DATE : 7/23/2019 11:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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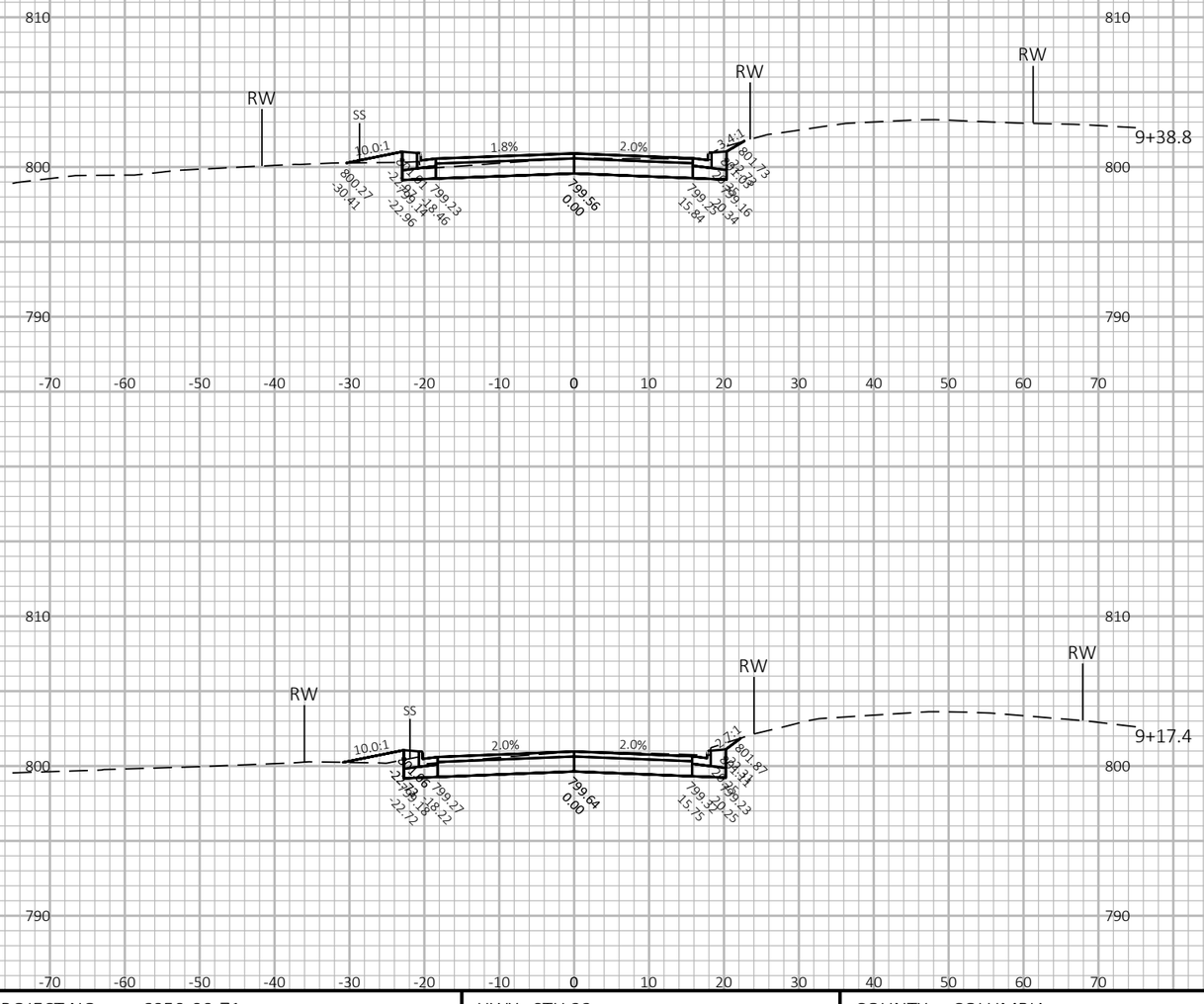
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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: MAINLINE - B-11-0171 APPROACH 'BR' "BR"	SHEET 393	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - LOCATION BRIDGE 8-7

PLOT DATE : 7/23/2019 11:36 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

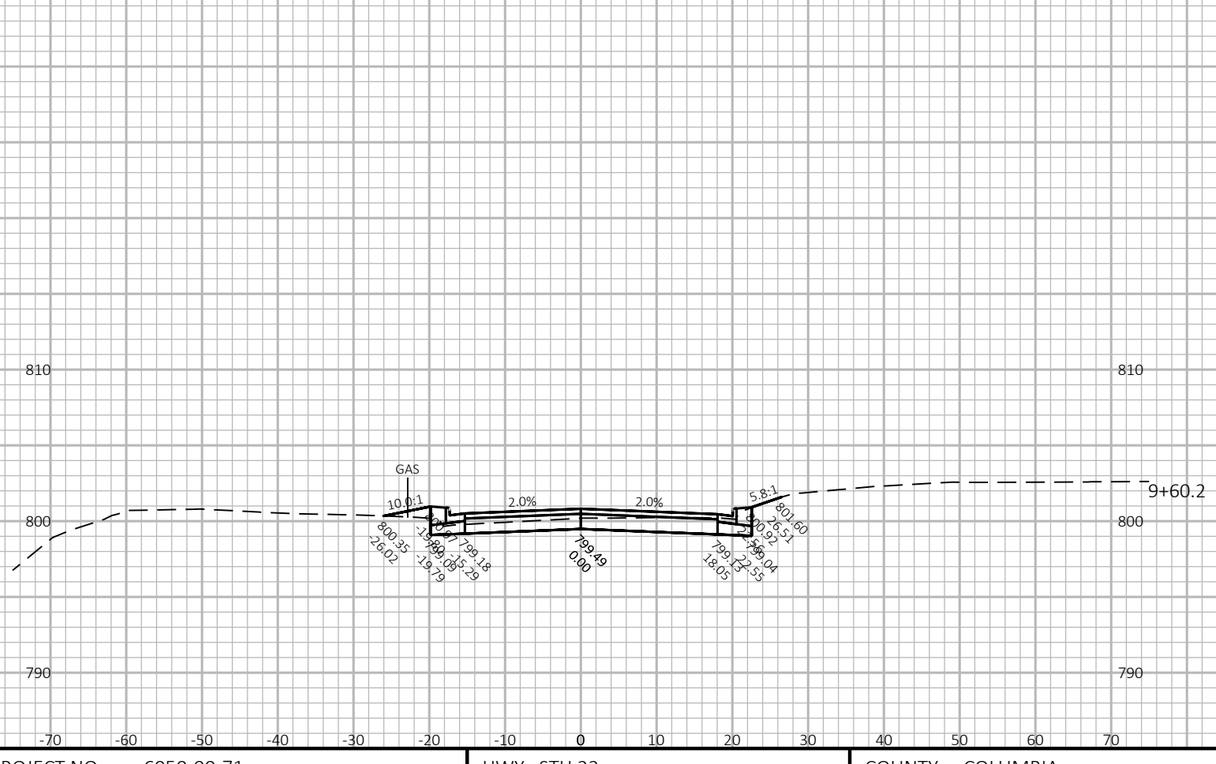
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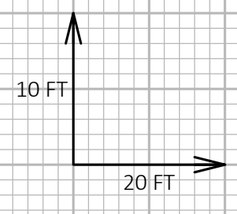
PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: HASKIN DR	SHEET 394	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - HASKIN DR-1

PLOT DATE : 7/23/2019 11:37 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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PROJECT NO: 6050-00-71	HWY: STH 22	COUNTY: COLUMBIA	CROSS SECTIONS: HASKIN DR	SHEET 395	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\60500001\SHEETSOTHER\GUARD RAIL X SECTIONS RT SIDE.DWG
LAYOUT NAME - HASKIN DR-2

PLOT DATE : 7/23/2019 11:37 PM PLOT BY : NELSON, JOSHUA B PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
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