

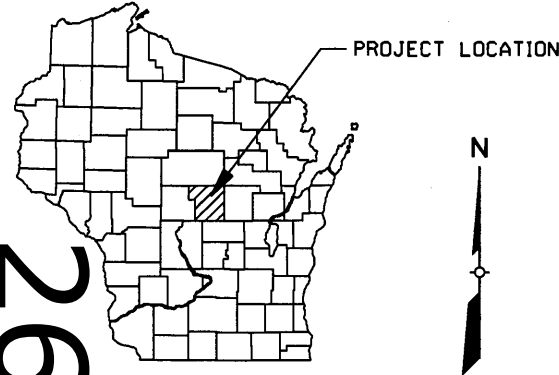
PROJECT ID: 6808-01-70
WITH: N/A

COUNTY: PORTAGE

ORDER OF SHEETS

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

TOTAL SHEETS = 54



DESIGN DESIGNATION

A.A.D.T. (2013)	=	375
A.A.D.T. (2033)	=	475
D.H.V.	=	2.6%
D.D.	=	62/38
T.	=	3.3%
DESIGN SPEED	=	40 MPH
ESALS	=	29,200

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	////
PROPERTY LINE	PL + 58.1
LOT LINE	---
LIMITED HIGHWAY EASEMENT	L---
EXISTING RIGHT OF WAY	---
PROPOSED OR NEW R/W LINE	---
SLOPE INTERCEPT	---
REFERENCE LINE	---
EXISTING CULVERT	---
PROPOSED CULVERT (Box or Pipe)	---
COMBUSTIBLE FLUIDS	CAUTION
MARSH AREA	---
WOODED OR SHRUB AREA	---

PROFILE	
GRADE LINE	---
ORIGINAL GROUND	---
MARSH OR ROCK PROFILE (To be noted as such)	---
SPECIAL DITCH	---
GRADE ELEVATION	95.36
CULVERT (Profile View)	---
UTILITIES	
ELECTRIC	E
FIBER OPTIC	FO
GAS	G
SANITARY SEWER	SAN
STORM SEWER	SS
TELEPHONE	T
WATER	W
UTILITY PEDESTAL	---
POWER POLE	---
TELEPHONE POLE	---

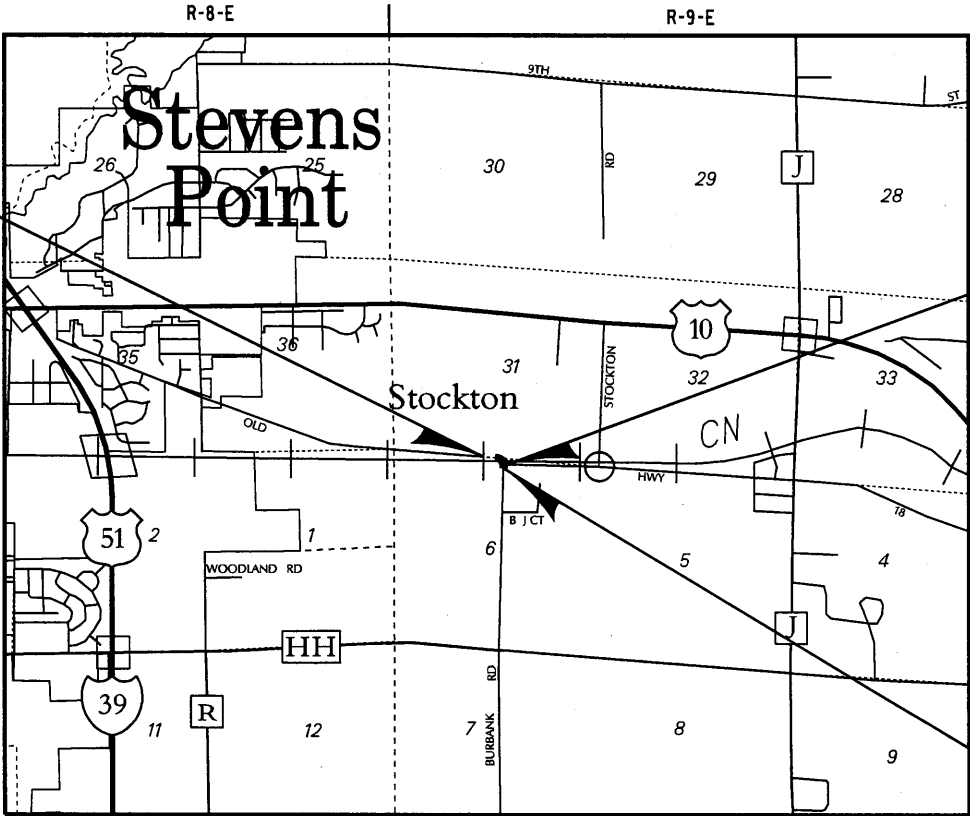
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
T STOCKTON, OLD HWY 18
CN RAILROAD/BURBANK RD INTERSECTION
TOWN ROAD
PORTAGE COUNTY

STATE PROJECT NUMBER
6808-01-70

BEGIN PROJECT 6808-01-70
STA. 10+00.00
Y=198883.286
X=190382.974

END PROJECT 6808-01-70
STA. 8T+00.00
Y=198698.168
X=191418.525

END CONSTRUCTION
STA. 22+00.00



LAYOUT
SCALE 0 1/2 MI.
TOTAL NET LENGTH OF CENTERLINE = 0.331 MI.

Coordinates on this plan are referenced to the Wisconsin County Coordinate System (WCCS), Portage County.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6808-01-70	WISC 2013423	1

ACCEPTED FOR
TOWN OF STOCKTON
BY
9-19-13
DATE
Michael Brode
TOWN CHAIR

ORIGINAL PLANS PREPARED BY
AECOM
BRUCE M. GERLAND
E26213
Stevens Point, WI
9/16/13
PROFESSIONAL ENGINEER
(Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PREPARED BY
Surveyor POINT OF BEGINNING
Designer AECOM
Management Consultant CEDAR CORPORATION

APPROVED FOR THE DEPARTMENT
DATE: 10-31-2013
(Management Consultant Signature)

GENERAL NOTES

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

ALL COORDINATES ARE BASED ON THE PORTAGE COUNTY COORDINATE SYSTEM.

ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON NAVD 88 DATUM.

CURVE DATA IS BASED ON THE ARC DEFINITION.

THE LOCATION OF SAW CUTS WILL BE DETERMINED BY THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

FIELD ADJUST SILT FENCE TO FIT EXISTING CONDITIONS.

FILL AS SHOWN ON THE PLAN SHEETS PERTAINS TO EMBANKMENTS CONSTRUCTED FROM EXCAVATION COMMON OR BORROW. THE SHRINKAGE ALLOWANCE USED TO COMPUTE THE VOLUME OF MATERIAL NECESSARY TO COMPLETE THE FILL IS 25 PERCENT.

WHERE THE QUANTITY OF BASE AGGREGATE DENSE AND HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE, AS SHOWN ON THE PLANS, IS APPROXIMATE. THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE 3.5-INCH HMA PAVEMENT, TYPE E-1 SHALL CONSIST OF A 1.75-INCH UPPER LAYER, & A 1.75-INCH LOWER LAYER.

PLACE TACK COAT BETWEEN LAYERS OF ASPHALT. APPLY TACK COAT TO VERTICAL SAW CUTS PRIOR TO PLACEMENT OF ASPHALTIC PAVEMENT.

SECTIONS AS SHOWN ON THE CROSS SECTION SHEETS INCLUDE THE THICKNESS OF TOPSOIL.

FERTILIZE, SEED DISTURBED AREAS AS DIRECTED BY THE ENGINEER.

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 = 2.7 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 2.7 ACRES

UTILITY CONTACTS

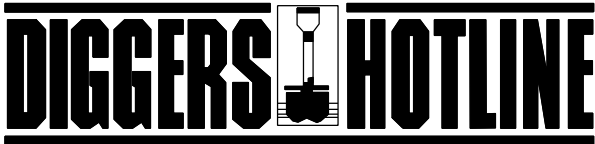
STEVE HARVEY
WPS - ELECTRIC
2001 PLOVER ROAD, P.O. BOX 637
PLOVER, WI 54467-0637
715-345-7527 PHONE
715-321-2264 CELL
sjharvey@wisconsinpublicservice.com

MATT MCGILL
WPS - GAS
INTEGRYS BUSINESS SUPPORT, LLC
A3C-P9
700 NORTH ADAMS
P.O. BOX 19001
GREEN BAY, WI 54307-9001
920-323-7505 CELL
mjmcgill@integrysgroup.com

CHARLES BARTELT
AT&T WISCONSIN
70 E DIVISION ST
FOND DU LAC, WI 54935
920-929-1013 PHONE
920-410-5104 CELL
cb1461@att.com

RICHARD "RUDI" RUDIGER
CHARTER COMMUNICATIONS
5024 HEFFRON STREET
STEVENS POINT, WI 54481
715-302-1550 CELL
Rudi.rudiger@chartercom.com

JASON HOGAN
ALLIANT ENERGY CORP
4902 N BILTMORE LANE, SUITE 1000
MADISON, WI 53718
608-458-4871 OFFICE
608-395-7395 CELL
jasonhogan@alliantenergy.com



Call 811 3 Work Days Before You Dig
or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

** DENOTES UTILITIES THAT ARE NOT
DIGGER'S HOTLINE MEMBERS

RAILROAD CONTACTS **

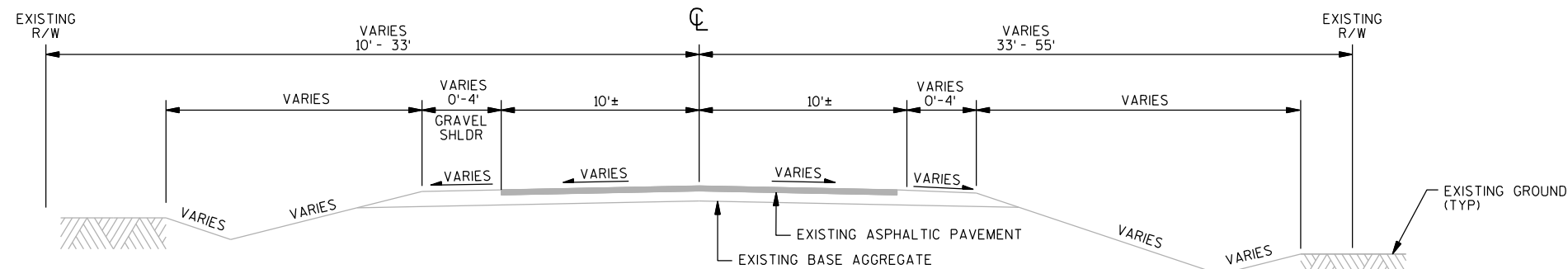
JACKIE MACEWICZ (MANAGER PUBLIC WORKS)
CANADIAN NATIONAL
1625 DEPOT STREET
STEVENS POINT WI 54481
715-345-2503

FIELD LOCATES REQUIRE A MINIMUM OF THREE DAYS NOTICE.
CHRISTINE GRZESIAK COORDINATES CANADIAN NATIONAL SIGNAL
CABLE LOCATES. CALL 715-345-2506

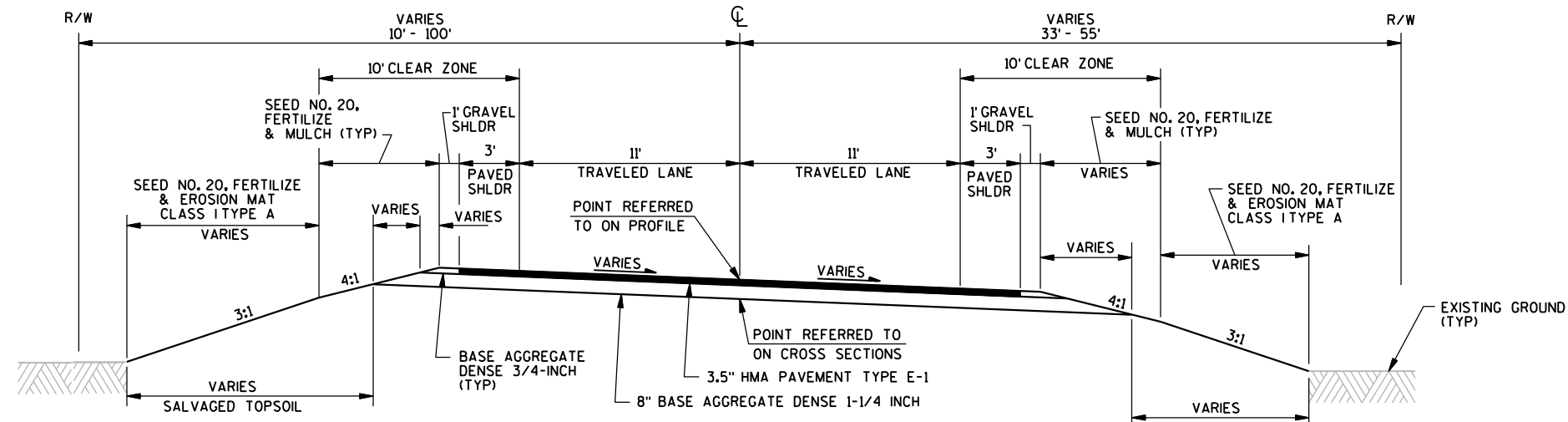
CALL FOR FLAGGING
MARY ELLEN CARMODY
2800 LIVERNOIS ROAD SUITE 330
TROY MI 48063
248-740-6227

WDNR CONTACT

NICK SCHAFF
DNR WEST CENTRAL REGION HEAD QUARTERS
1300 WEST CLAIREMONT AVENUE
EAU CLAIRE, WI 54702
715-839-1609
nicholas.schaff@wisconsin.gov



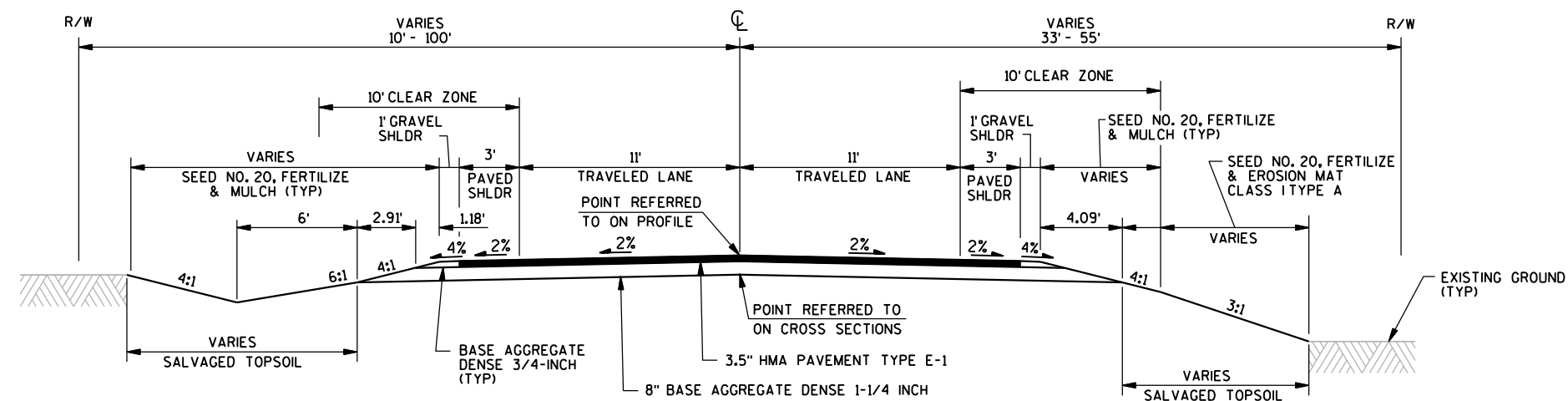
TYPICAL EXISTING SECTION
OLD HWY 18/BURBANK RD



TYPICAL FINISHED SUPERELEVATED SECTION

OLD HWY 18/BURBANK RD

STA 5T+15 - STA 8T+00
STA 10+00 - STA 12+27
STA 12+92 - STA 16+35



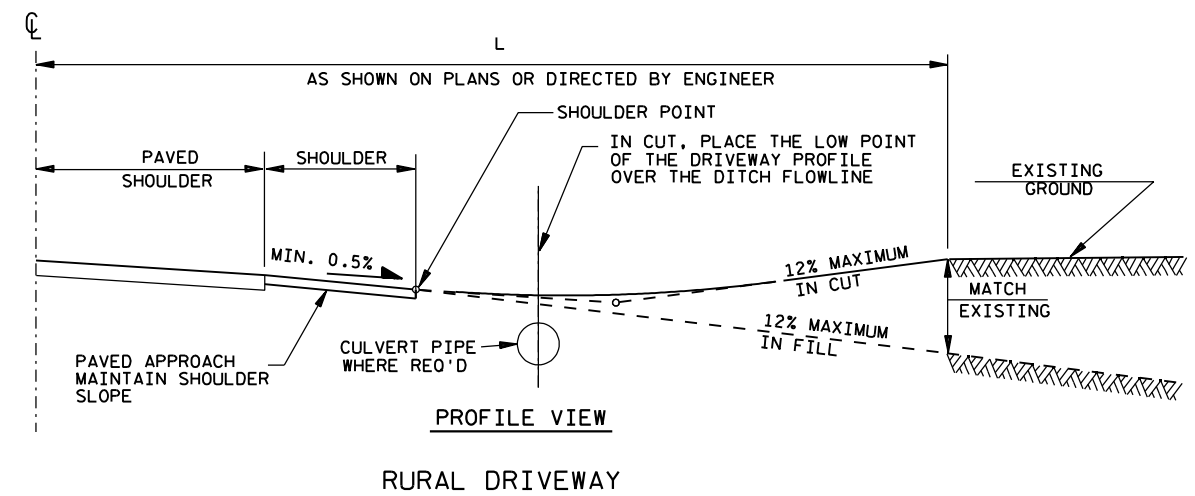
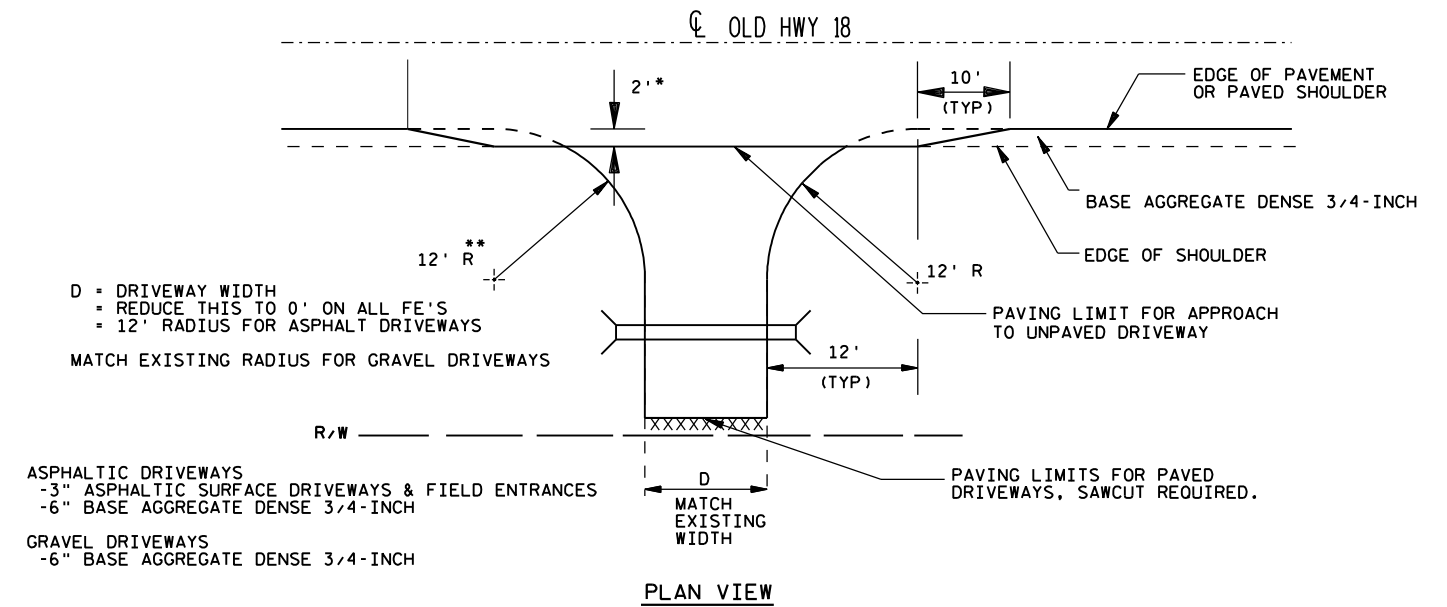
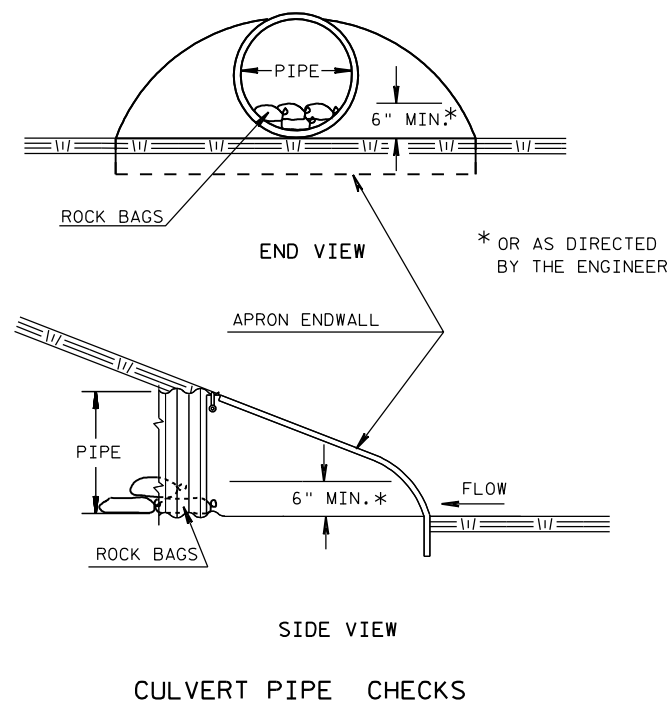
TYPICAL FINISHED SECTION

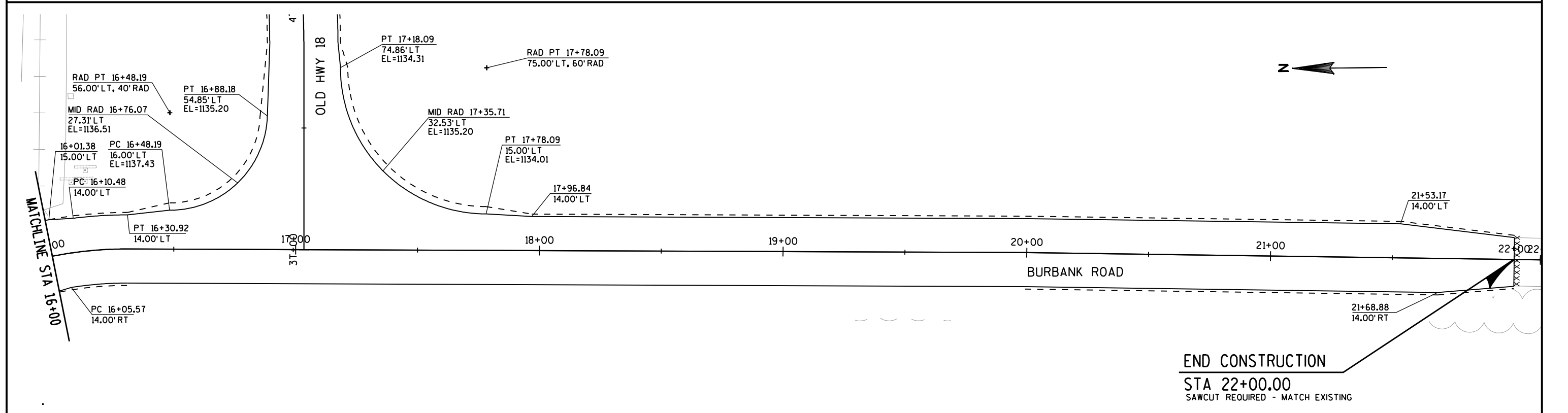
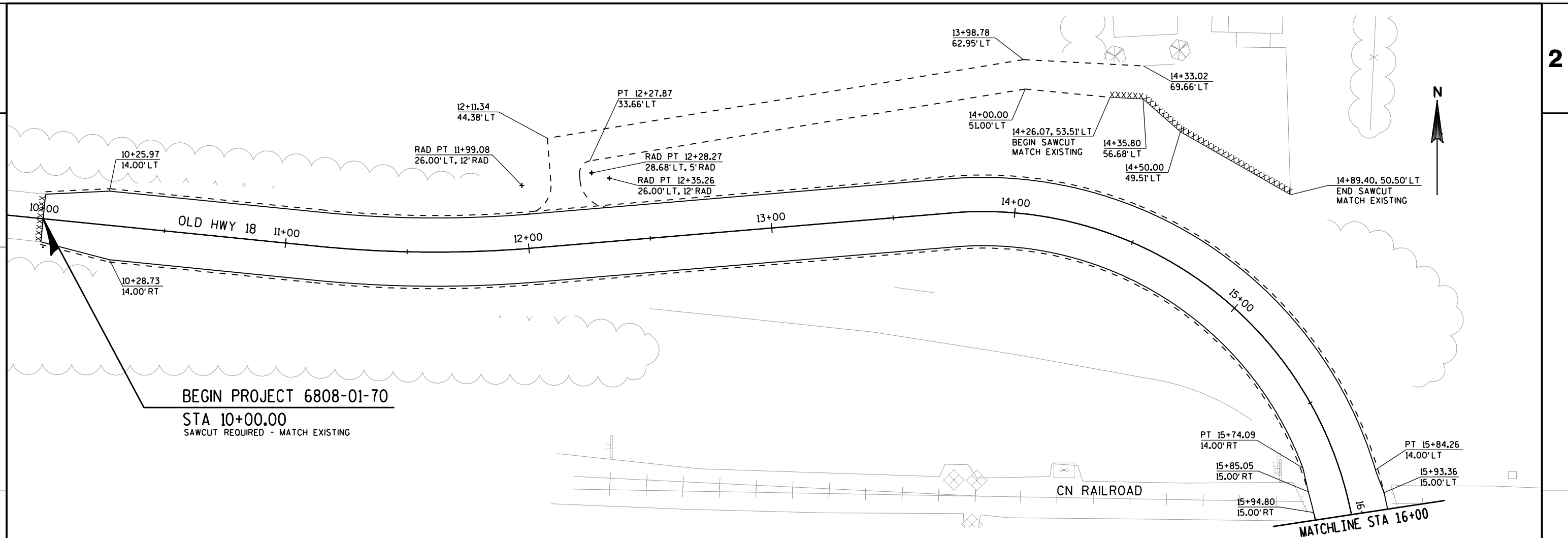
OLD HWY 18/BURBANK RD

STA 3T+00 - STA 5T+15
STA 12+27 - STA 12+92
STA 16+35 - STA 22+00

SUPERELEVATION TABLE

PC STATION	PI STATION	PT STATION	RADIUS	SUPER ELEVATION	DESIGN SPEED	SUPER RUNOFF	TANGENT RUNOUT	PC SIDE OF CURVE				PT SIDE OF CURVE			
								NORMAL CROWN	FLAT	REVERSE CROWN	FULL SUPER BEGIN	FULL SUPER END	REVERSE CROWN	FLAT	NORMAL CROWN
11+13.25	11+57.91	12+02.31	485	6.0%	40	124	41	10+00	10+35	10+71	11+54	11+62	12+45	12+86	13+27
13+74.08	15+43.79	16+30.92	154	4.0%	25	69	35	12+92	13+27	13+62	13+96	15+00	15+50	16+00	16+35
6+39.88	6+84.32	7+28.51	485	6.0%	40	124	41	5+15	5+56	5+97	6+80	6+88	7+71	8+12	8+50





PROJECT NUMBER: 6808-01-70

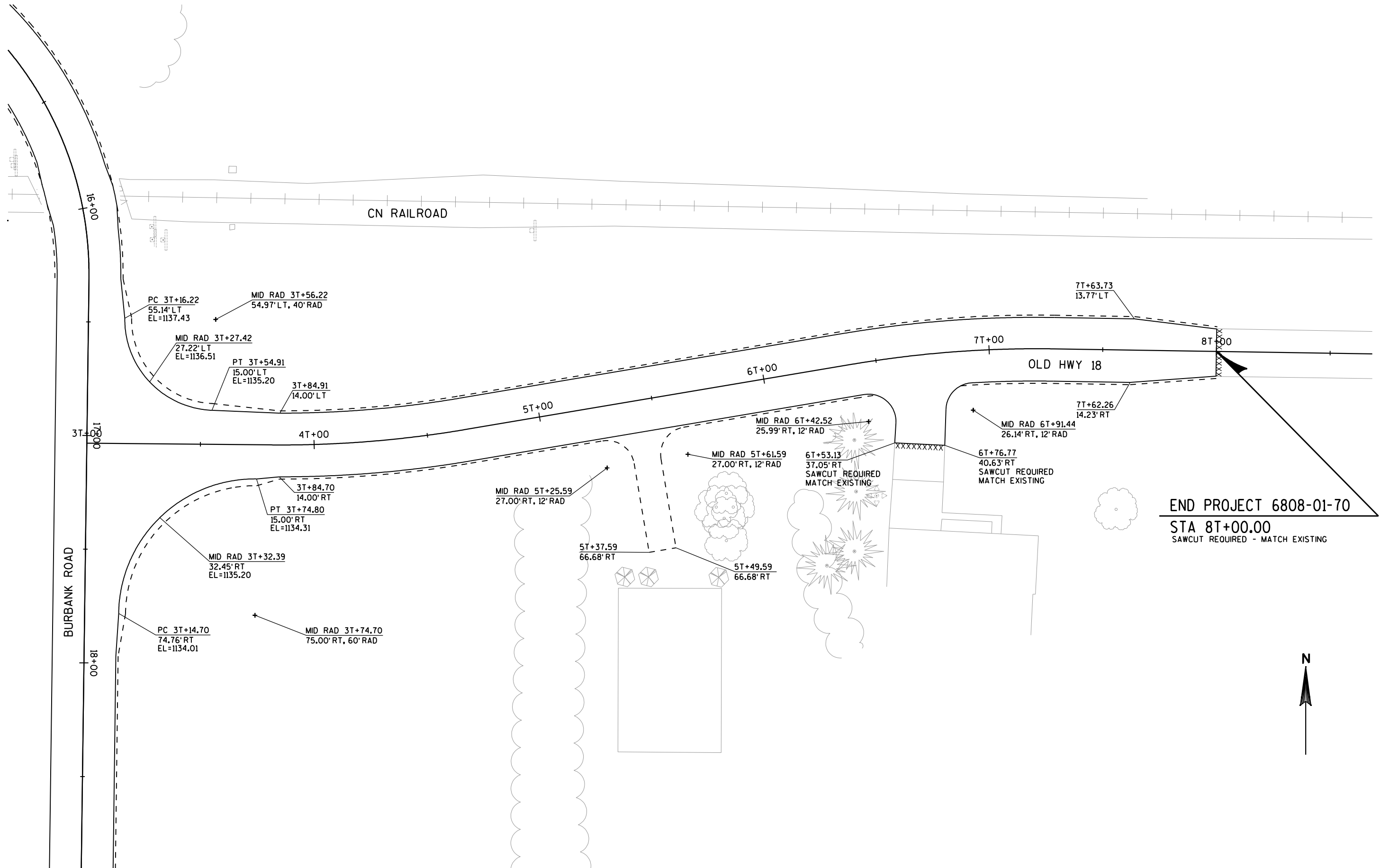
HWY: OLD HWY 18

COUNTY: PORTAGE

LAYOUT - OLD HWY 18 & BURBANK ROAD

SHEET

E



PROJECT NUMBER: 6808-01-70

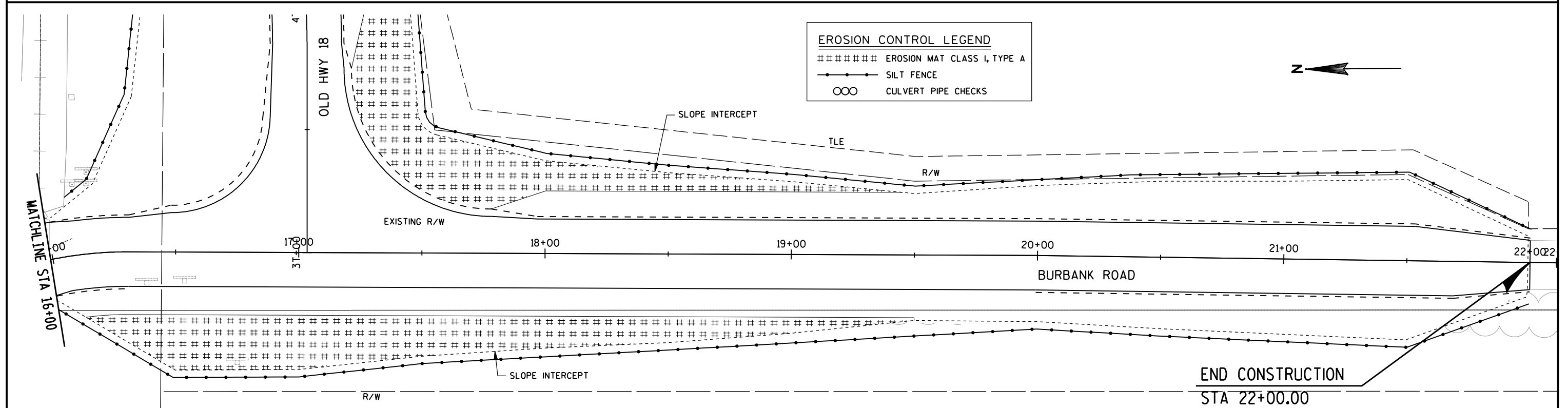
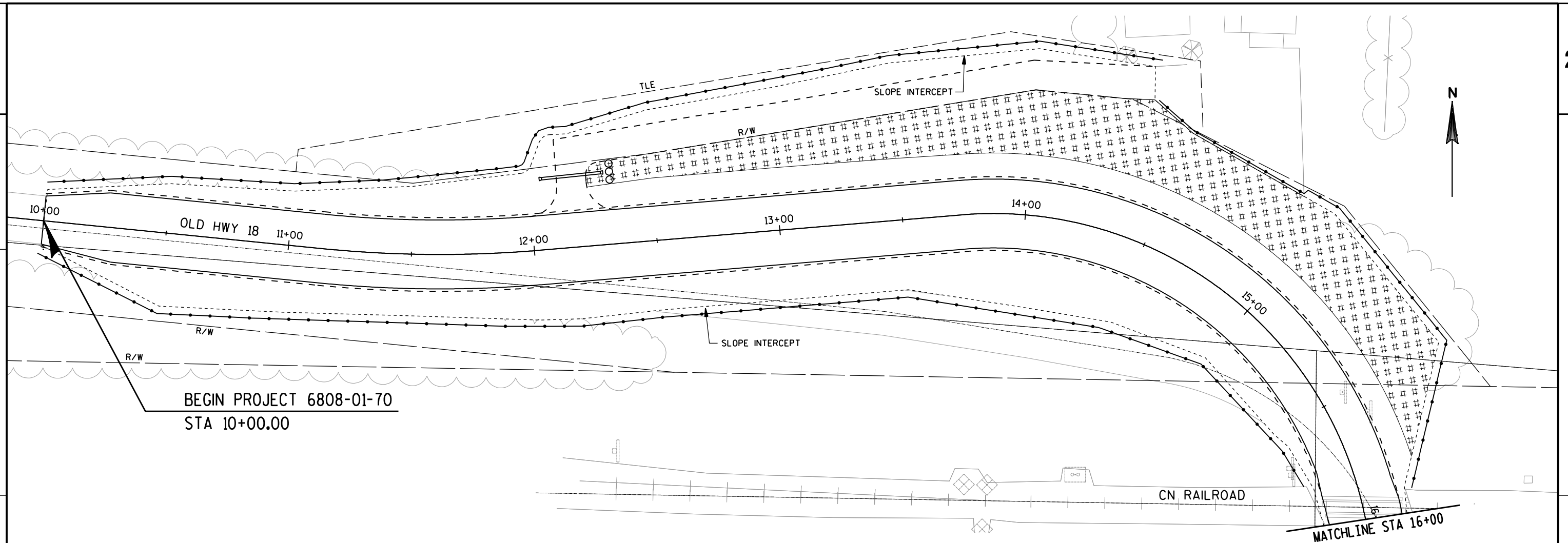
HWY: OLD HWY 18

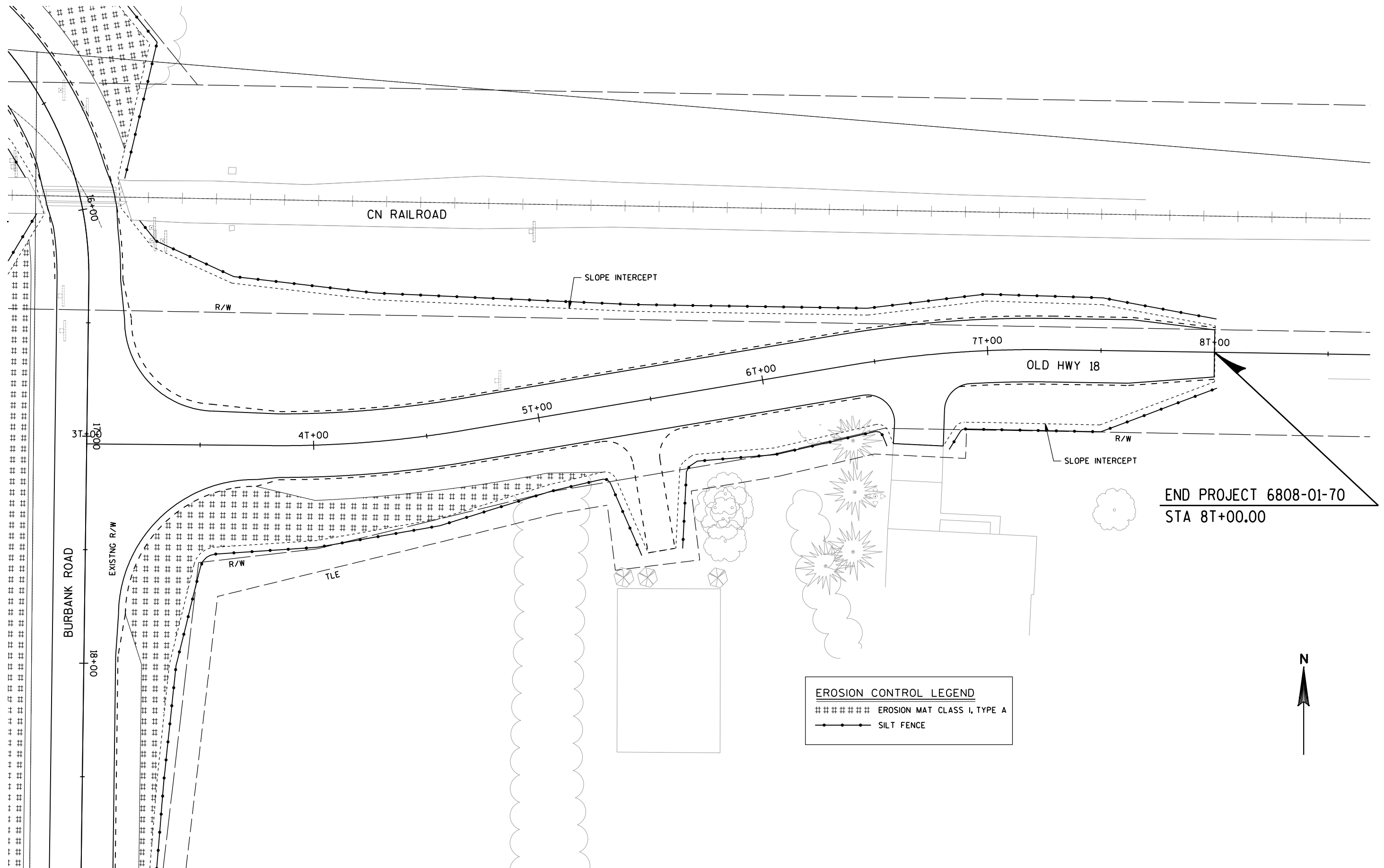
COUNTY: PORTAGE

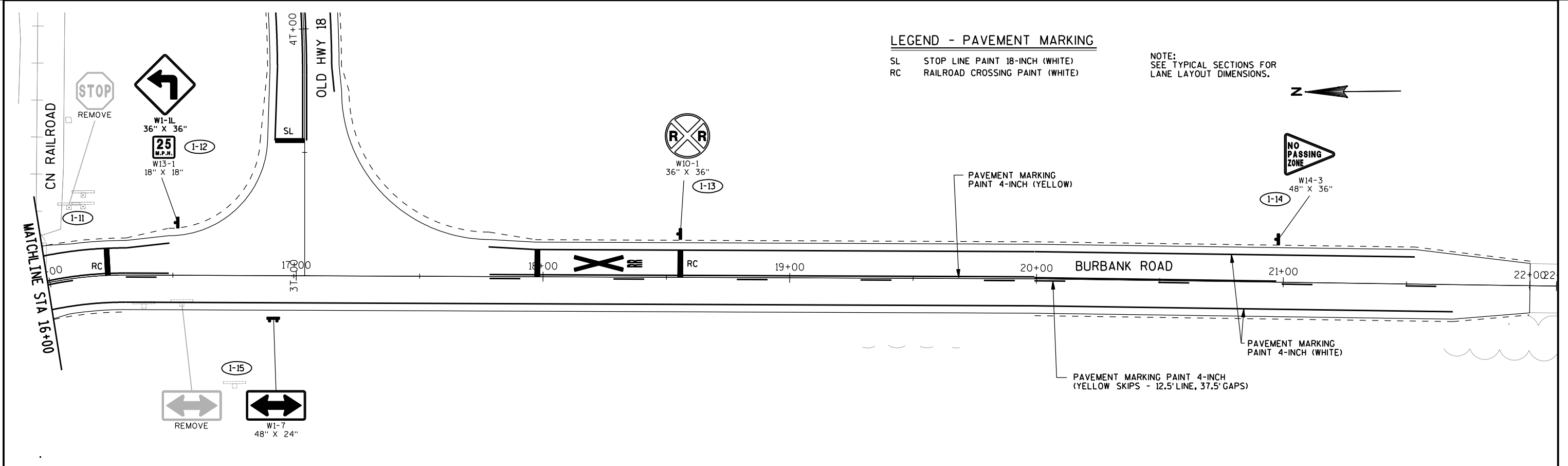
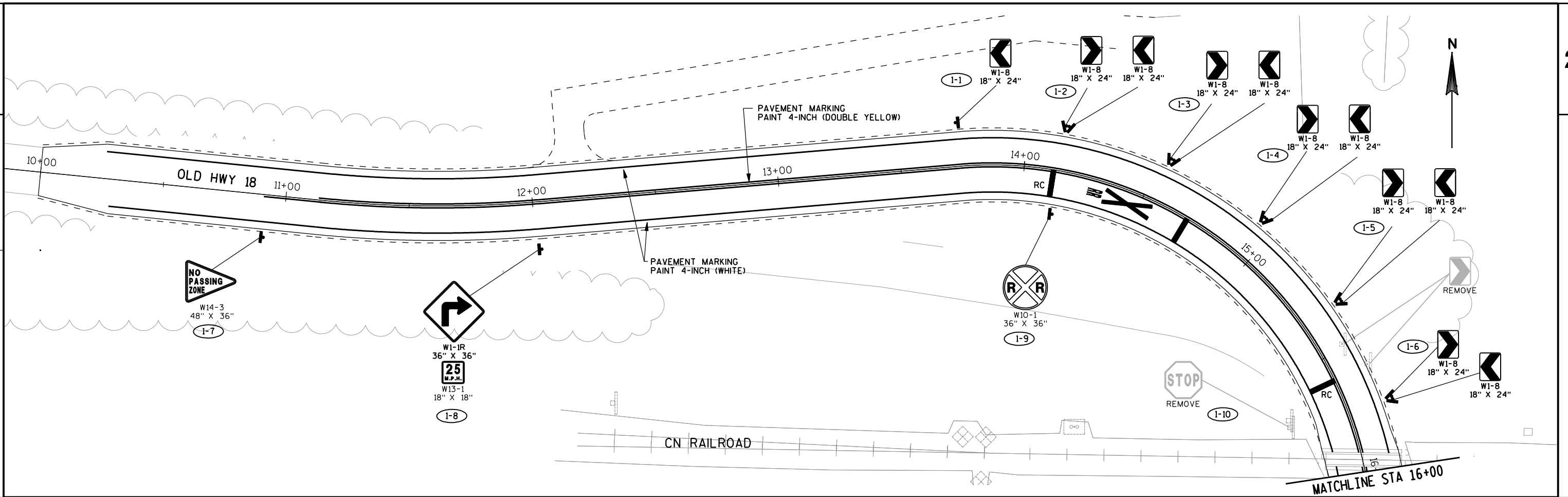
LAYOUT - OLD HWY 18

SHEET

E

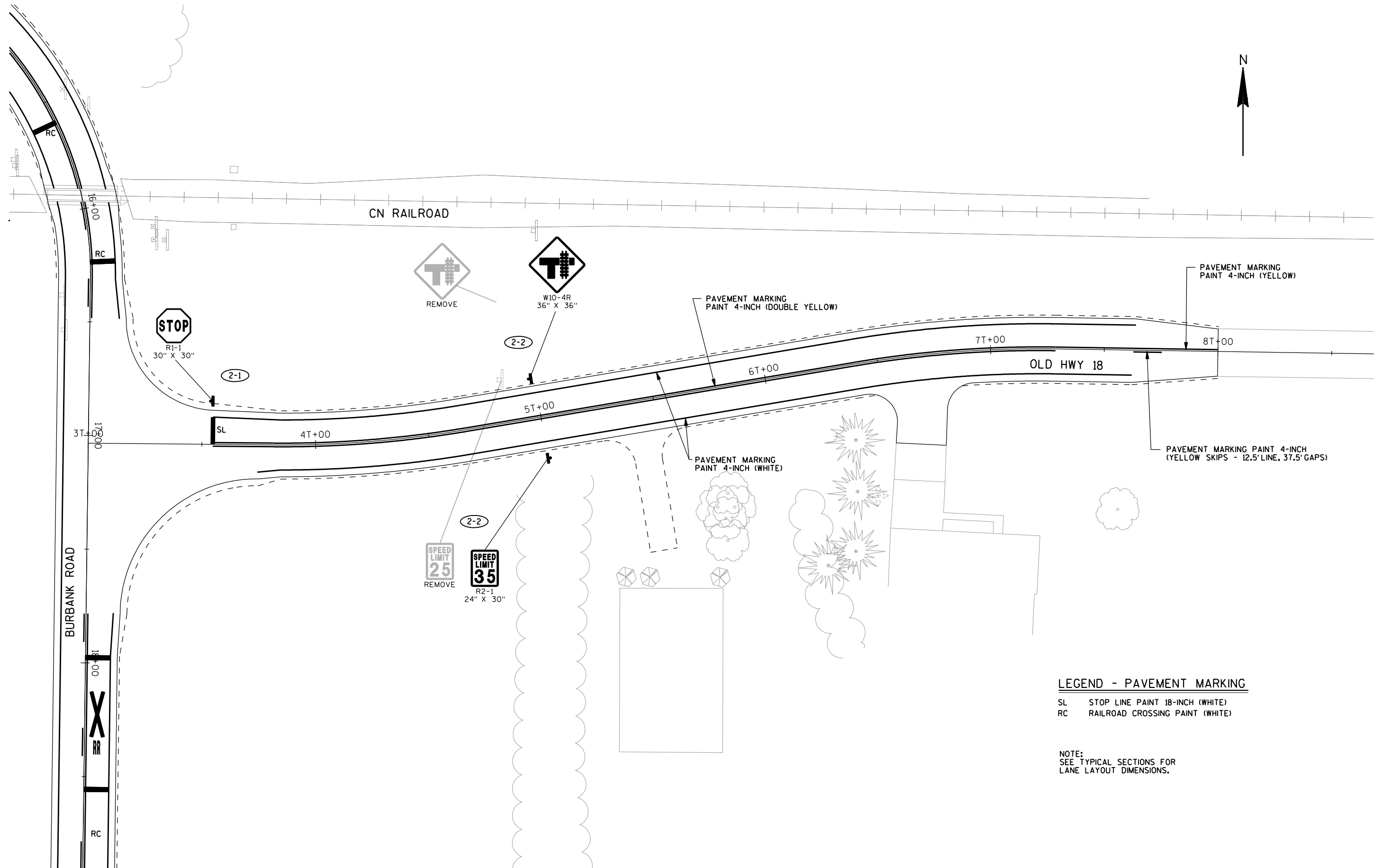




**LEGEND - PAVEMENT MARKING**

SL STOP LINE PAINT 18-INCH (WHITE)
RC RAILROAD CROSSING PAINT (WHITE)

NOTE:
SEE TYPICAL SECTIONS FOR
LANE LAYOUT DIMENSIONS.



OLD HWY 18

CTH R

ROAD CLOSED
1.5 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

Stockton

ROAD
CLOSED
1000 FT
W20-3

ROAD
CLOSED
500 FT
W20-3

ROAD
CLOSED
R11-2
48" X 30"

ROAD
CLOSED
500 FT
W20-3

ROAD
CLOSED
1000 FT
W20-3

STOCKTON RD

ROAD
CLOSED
AHEAD
W20-3

OLD HWY 18

CN RAILROAD

CN RAILROAD

OLD HWY 18

Stevens
Point

CTH R

LEGEND

- ▬ SIGN ON PERMANENT SUPPORT
Ⓐ TRAFFIC CONTROL WARNING LIGHTS TYPE A
⇕ / ⇕ TYPE III BARRICADE W/WITH OUT ATTACHED SIGN
▨ WORK AREA

NOTES: SEE SDD "BARRICADES AND SIGNS
FOR MAINLINE CLOSURES" FOR
ADDITIONAL DETAILS NOT SHOWN.

MUST MAINTAIN LOCAL
ACCESS IN WORK AREA.

N

BURBANK RD

ROAD
CLOSED
R11-2
48" X 30"

ROAD
CLOSED
500 FT
W20-3

ROAD
CLOSED
1000 FT
W20-3

ROAD CLOSED
TO
THRU TRAFFIC
R11-4
60" X 30"

ROAD CLOSED
0.4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED
0.9 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

CTH HH

CTH HH

DATE 07FEB14		E S T I M A T E O F Q U A N T I T I E S			
LINE					6808-01-70
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	201.0105	CLEARING	STA	11.500	11.500
0020	201.0120	CLEARING	ID	16.000	16.000
0030	201.0205	GRUBBING	STA	11.500	11.500
0040	201.0220	GRUBBING	ID	16.000	16.000
0050	205.0100	EXCAVATION COMMON	CY	800.000	800.000
0060	208.0100	BORROW	CY	10,720.000	10,720.000
0070	213.0100	FINISHING ROADWAY (PROJECT) 01. 6808-01-70	EACH	1.000	1.000
0080	214.0100	OBLITERATING OLD ROAD	STA	4.000	4.000
0090	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	380.000	380.000
0100	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	3,700.000	3,700.000
0110	455.0105	ASPHALTIC MATERIAL PG58-28	TON	60.000	60.000
0120	455.0605	TACK COAT	GAL	140.000	140.000
0130	460.1101	HMA PAVEMENT TYPE E-1	TON	1,100.000	1,100.000
0140	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	710.000	710.000
0150	465.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	TON	11.000	11.000
0160	521.0112	CULVERT PIPE CORRUGATED STEEL 12-INCH	LF	24.000	24.000
0170	521.1012	APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH	EACH	2.000	2.000
0180	619.1000	MOBILIZATION	EACH	1.000	1.000
0190	625.0500	SALVAGED TOPSOIL	SY	5,490.000	5,490.000
0200	627.0200	MULCHING	SY	5,250.000	5,250.000
0210	628.1504	SILT FENCE	LF	3,500.000	3,500.000
0220	628.1520	SILT FENCE MAINTENANCE	LF	545.000	545.000
0230	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	2.000	2.000
0240	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	1.000	1.000
0250	628.2002	EROSION MAT CLASS I TYPE A	SY	1,970.000	1,970.000
0260	628.7555	CULVERT PIPE CHECKS	EACH	3.000	3.000
0270	629.0210	FERTILIZER TYPE B	CWT	4.000	4.000
0280	630.0120	SEEDING MIXTURE NO. 20	LB	140.000	140.000
0290	630.0200	SEEDING TEMPORARY	LB	210.000	210.000
0300	634.0612	POSTS WOOD 4X6-INCH X 12-FT	EACH	12.000	12.000
0310	634.0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	6.000	6.000
0320	634.0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	4.000	4.000
0330	637.2210	SIGNS TYPE II REFLECTIVE H	SF	110.750	110.750
0340	638.2602	REMOVING SIGNS TYPE II	EACH	6.000	6.000
0350	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	7.000	7.000
0360	642.5001	FIELD OFFICE TYPE B	EACH	1.000	1.000
0370	643.0100	TRAFFIC CONTROL (PROJECT) 01. 6808-01-70	EACH	1.000	1.000
0380	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	420.000	420.000
0390	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	360.000	360.000
0400	643.0900	TRAFFIC CONTROL SIGNS	DAY	390.000	390.000
0410	646.0103	PAVEMENT MARKING PAINT 4-INCH	LF	4,510.000	4,510.000
0420	647.0105	PAVEMENT MARKING RAILROAD CROSSINGS PAINT	EACH	2.000	2.000
0430	647.0563	PAVEMENT MARKING STOP LINE PAINT 18-INCH	LF	12.000	12.000
0440	650.4500	CONSTRUCTION STAKING SUBGRADE	LF	1,700.000	1,700.000
0450	650.5000	CONSTRUCTION STAKING BASE	LF	1,700.000	1,700.000
0460	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 6808-01-70	LS	1.000	1.000
0470	650.9920	CONSTRUCTION STAKING SLOPE STAKES	LF	1,700.000	1,700.000
0480	690.0150	SAWING ASPHALT	LF	170.000	170.000
0490	ASP.1T0A	ON-THE-JOB TRAINING APPRENTICE AT \$5.00/HR	HRS	600.000	600.000

DATE 07FEB14		E S T I M A T E O F Q U A N T I T I E S				
LINE		6808-01-70				
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY	
0500	ASP.1T0G	ON-THE-JOB TRAINING GRADUATE AT \$5.00/HR	HRS	300.000	300.000	
0510	SPV.0105	SPECIAL 01. RESEARCH AND LOCATE EXISTING PROPERTY MONUMENTS	LS	1.000	1.000	
0520	SPV.0105	SPECIAL 02. VERIFY AND REPLACE EXISTING PROPERTY MONUMENTS	LS	1.000	1.000	

CLEARING AND GRUBBING

STATION	-	STATION	LOCATION	201.0 CLEARING STA	201.0 GRUBBING STA	201.0120 CLEARING ID	201.0220 GRUBBING ID
10+00	-	13+50	OLD HWY 18 LT	3.5	3.5	---	---
10+00	-	12+50	OLD HWY 18 RT	2.5	2.5	---	---
14+50	-	15+50	OLD HWY 18 LT	1.0	1.0	---	---
17+00	-	20+50	BURBANK RD RT	3.5	3.5	---	---
21+50	-	22+00	BURBANK RD LT	0.5	0.5	---	---
4+75	-	5+25	OLD HWY 18 RT	0.5	0.5	---	---
6+22	-		OLD HWY 18 RT	---	---	16	16
PROJECT 6808-01-70 TOTAL				11.5	11.5	16	16

FINISHING ROADWAY

	213.0100 FINISHING ROADWAY EACH
PROJECT	
6808-01-70	1
PROJECT 6808-01-70 TOTAL	1

OBLITERATING OLD ROAD

	214.0100
	OBLITERATING
	OLD ROAD
LOCATION	STA
OLD HWY 18	4.0
PROJECT 6808-01-70 TOTAL	4.0

ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

STATION	LOCATION	465.0120 TON
6+67	OLD HWY 18 PE RT	11
PROJECT 6808-01-70 TOTAL		11

EARTHWORK

From/To Station	Location	Excavation Common (1) (item # 205.0100)		Salvaged/Unusable Pavement Material (4)	Available Material (5)	Unexpanded Fill	Expanded Fill (6)	Mass Ordinate +/- (7)	Waste	Borrow	Comment:
		Cut (2)	EBS Excavation (3)								
10+00 - 22+11	OLD HWY 18/BURBANK RD	350	0	0	350	7,280	9,100	-8,750	0	8,750	
3+00 - 9+00	OLD HWY 18 EAST	450	0	0	450	1,930	2,420	-1,970	0	1,970	
Grand Total		800	0	0	800	9,210	11,520		0	10,720	
		Total Exc Common		800					Total Borrow		10,720

- 1) Excavation Common is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/Unsuable Pavement Material is included in Cut.
- 3) EBS Excavation to be backfilled with Subbase Material
- 4) Salvaged/Unusable Pavement Material = Existing Asphalt and Excess Topsoil
- 5) Available Material = Cut - Salvaged/Unusable Pavement Material
- 6) Expanded Fill. Factor = 1.25
- Dependent on selections:
- Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced EBS) * Fill Factor
- Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh) * Fill Factor
- Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor) * Fill Factor
- 7) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

BASE AGGREGATE

STATION	-	STATION	LOCATION	305.0115 3/4-INCH TONS	305.0120 1 1/4-INCH TONS	REMARKS
10+00	-	22+00	OLD HWY 18 -BURBANK RD	110	2350	MAINLINE
3+14	-	8+00	OLD HWY 18	50	940	MAINLINE
	12+17		OLD HWY 18 PE LT	120	---	PE
	5+50		OLD HWY 18 PE RT	30	---	PE
	6+67		OLD HWY 18 PE RT	30	---	PE
UNDISTRIBUTED				40	350	
PROJECT 6808-01-70 TOTAL				380	3700	

ASPHALT PAVEMENT ITEMS

STATION	-	STATION	LOCATION	455.0105 ASPHALTIC MATERIAL PG58-28 TONS	455.0605 TACK COAT GAL	460.1101 HMA PAVEMENT TYPE E-1 TONS
10+00	-	22+00	OLD HWY 18 - BURBANK RD	40	95	750
3+14	-	8+00	OLD HWY 18	20	45	350
	6+67		OLD HWY 18 PE RT	---	---	---
PROJECT 6808-01-70 TOTAL				60	140	1100

CULVERT PIPES

STATION	LOCATION	MINIMUM WALL THICKNESS (IN)	521.0112 CULVERT PIPE CORRUGATED STEEL 12-INCH LF	521.1012 APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH EACH
			12-INCH LF	12-INCH EACH
12+17	OLD HWY 18 PE LT	0.064	24	2
PROJECT 6808-01-70 TOTAL			24	2

LANDSCAPING

STATION	-	STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0200 SEEDING TEMPORARY LB
10+00	-	16+00	OLD HWY 18 RT	550	820	0.5	15	25
10+00	-	16+00	OLD HWY 18 LT	1,450	780	1.1	35	50
16+00	-	22+00	BURBANK RD RT	1,000	770	0.8	25	35
17+00	-	22+00	BURBANK RD LT	620	570	0.5	15	25
3+00	-	8+00	OLD HWY 18 RT	670	660	0.6	20	30
3+00	-	8+00	OLD HWY 18 LT	1,200	1650	1.0	30	45
PROJECT 6808-01-70 TOTAL				5,490	5,250	4	140	210

NOTE:
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

EROSION CONTROL

				623.1504	628.1520	628.1905	628.1910	628.2002	628.7555
				SILT	SILT	MOBILIZATIONS	EROSION	EROSION MAT	CULVERT
				FENCE	MAINTENANCE	EROSION	CONTROL	CLASS I,	PIPE
				LF	LF	(EACH)	(EACH)	TYPE A	CHECKS
STATION	-	STATION	LOCATION	LF	LF	(EACH)	(EACH)	SY	EACH
10+00	-	16+00	RT	550	85	--	--	--	--
	12+17		OLD HWY 18 PE LT	--	--	--	--	--	3
10+00	-	16+00	OLD HWY 18 LT	690	105	--	--	930	--
16+00	-	22+00	BURBANK RD RT	610	95	--	--	490	--
17+53	-	22+00	BURBANK RD LT	455	70	--	--	250	--
3T+00	-	8T+00	OLD HWY 18 RT	485	75	--	--	300	--
3T+00	-	8T+00	OLD HWY 18 LT	475	75	--	--	--	--
UNDISTRIBUTED				235	40	2	1	--	--
PROJECT 6808-01-70 TOTAL				3,500	545	2	1	1,970	3

TRAFFIC CONTROL

		643.0100	643.0420			643.0705			643.0900
		TRAFFIC CONTROL	TRAFFIC CONTROL			TRAFFIC CONTROL			TRAFFIC CONTROL
		PROJECT	BARRICADES			WARNING LIGHTS			SIGNS
		EACH	TYPE III			TYPE A			
PROJECT ID	DAYS IN SERVICE	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS
6999-09-79	30	1	420	12	360	13	390		
		1	420		360		390		

PAVEMENT MARKING ITEMS

				646.0106	646.0106	647.0105	647.0563
				PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT
				MARKING	MARKING	MARKING	MARKING
				PAINT	PAINT	RAILROAD	PAINT
				4-INCH	4-INCH	CROSSING	STOP LINE
				WHITE	YELLOW	PAINT	PAINT 13-IN
STATION	-	STATION	LOCATION	LF	LF	EACH	LF
10+26	-	15+93	OLD HWY 18 LT	585	--	--	--
10+91	-	15+91	OLD HWY 18	--	970	--	--
10+29	-	15+89	OLD HWY 18 RT	550	--	1	--
15+99	-	21+53	BURBANK RD LT	275	--	1	--
15+97	-	22+00	BURBANK RD	--	510	--	--
3+55	-	7+64	OLD HWY 18 LT	410	--	--	12
3+55	-	8+00	OLD HWY 18	--	820	--	--
3+74	-	7+62	OLD HWY 18 RT	390	--	--	--
PROJECT 6808-01-70 TOTAL				2,210	2,300	2	12

NOTE:
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PERMANENT SIGNING

						637.0202	634.0412	634.414	634.4160	638.2602	638.3000	REMARKS
						SIGNS	WOOD POST 4X6-INCH			REMOVING	REMOVING SMALL	
						REFLECTIVE	12 FT	14 FT	16 FT	SIGNS	SIGN SUPPORTS	
						TYPE II	EACH	EACH	EACH	TYPE II	EACH	
SIGN NO.	STATION	LOCATION	SIGN CODE	SIGN MESSAGE	SIGN SIZE IN x IN	SF						
1-1	13+74	LT	W1-8	CHEVRON	18" X 24"	3.00	1	--	--	--	--	
1-2	14+14	LT	W1-8	CHEVRON (2)	18" X 24"	6.00	2	--	--	--	--	
1-3	14+54	LT	W1-8	CHEVRON (2)	18" X 24"	6.00	2	--	--	--	--	
1-4	14+94	LT	W1-8	CHEVRON (2)	18" X 24"	6.00	2	--	--	--	--	
1-5	14+34	LT	W1-8	CHEVRON (2)	18" X 24"	6.00	2	--	--	--	--	
1-6	14+74	LT	W1-8	CHEVRON	18" X 24"	3.00	2	--	--	2	2	
1-7	10+91	RT	W14-3	NO PASSING ZONE	48" X 36"	6.00	--	--	1	--	--	
1-8	13+10	RT	W1-1R	RIGHT TURN	36" X 36"	9.00	--	--	1	--	--	
1-8	13+10	RT	W13-1	ADVISORY SPEED YELLOW 25	18" X 18"	2.25	--	--	--	--	--	
1-9	14+12	RT	W10-1	RAILROAD CROSSING	36" X 36"	9.00	--	1	--	--	--	
1-10	15+72	RT		STOP	--	--	--	--	--	1	1	
1-11	16+08	LT		STOP	--	--	--	--	--	1	1	
1-12	12+05	LT	W1-1L	LEFT TURN	36" X 36"	9.00	--	--	1	--	--	
1-12	12+05	LT	W13-1	ADVISORY SPEED YELLOW 25	18" X 18"	2.25	--	--	--	--	--	
1-13	18+56	LT	W10-1	RAILROAD CROSSING	36" X 36"	9.00	--	1	--	--	--	
1-14	20+98	LT	W14-3	NO PASSING ZONE	48" X 36"	6.00	--	--	1	--	--	
1-15	16+48	RT	W1-7	DOUBLE NIGHT ARROW	48" X 24"	8.00	--	2	--	1	2	
2-1	3+55	LT	R1-1	STOP	30" X 30"	6.25	--	1	--	--	--	
2-2	5+00	LT	W10-4R	T INTERSECTION WITH TRACKS ON RT	36" X 36"	9.00	--	1	--	--	--	
2-3	5+00	RT	R2-1	SPEED LIMIT 40	24" X 30"	5.00	1	--	--	1	1	
PROJECT 5966-10-70 TOTAL						110.75	12	6	4	6	7	

CONSTRUCTION STAKING

				650.4500	650.5000	650.9910	650.9920
				SUBGRADE	BASE	SUPPLEMENTAL	SLOPE
				LF	LF	CONTROL	STAKES
				LF	LF	LS	LF
STATION	-	STATION	LOCATION				
10+00	-	22+00	OLD HWY 18 & BURBANK RD	1200	1200	--	1200
3+00	-	8+00	OLD HWY 18	500	500	--	500
PROJECT 6808-01-70 TOTAL				1,700	1,700	1	1,700

SAWNG PAVEMENT

				690.0150
				SAWING
				ASPHALT
				LF
STATION	-	STATION	LOCATION	
	10+00		OLD HWY 18	20
14+26	-	14+89	OLD HWY 18 PE LT	86
	22+00		BURBANK RD	20
	6+67		OLD HWY 18 PE RT	22
	8+00		OLD HWY 18	22
PROJECT 6808-01-70 TOTAL				170

R/W PROJECT NUMBER	6808-01-20	SHEET NUMBER	4.1	TOTAL SHEETS	2
FEDERAL PROJECT NUMBER					
PLAT OF RIGHT-OF-WAY REQUIRED FOR					
T STOCKTON, OLD HWY 18					
CN RAILROAD/BURBANK RD INTERSECTION					
TOWN ROAD PORTAGE COUNTY					
CONSTRUCTION PROJECT NUMBER					
6808-01-70					

CONVENTIONAL ABBREVIATIONS			
ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC	REMAINING	REM.
AND OTHERS	ET.AL	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.	CURVE DATA	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

CONVENTIONAL SYMBOLS			
FOUND IRON PIPE/PIN	IP	PROPOSED R/W LINE	---
R/W MONUMENT	(1" UNLESS NOTED)	EXISTING H.E. LINE	---
R/W STANDARD	(SET)	PROPERTY LINE	---
SIGN	(SET)	LOT & TIE LINES	---
SECTION CORNER MONUMENT	ISIGN	SLOPE INTERCEPTS	---
SECTION CORNER SYMBOL		CORPORATE LIMITS	---
FEE (HATCH VARIES)		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	-----
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY ACQUISITION)	-----
PERMANENT LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	-----
R/W BOUNDARY POINT	(PRW20)	SECTION LINE	---
HIGHWAY EASEMENT POINT	(HE30)	QUARTER LINE	---
TEMPORARY LIMITED EASEMENT POINT	(406)	SIXTEENTH LINE	---
PARCEL NUMBER	(100)	EXISTING CENTERLINE	---
UTILITY PARCEL NUMBER	(92)	PROPOSED REFERENCE LINE	---
SIGN NUMBER (OFF PREMISE)	(21-)	PARALLEL OFFSET	---
BUILDING			

CONVENTIONAL UTILITY SYMBOLS

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

NON COMPENSABLE		COMPENSABLE	
POWER POLE	⊙	TELEPHONE POLE	⊙
TELEPHONE POLE	⊙	TELEPHONE PEDESTAL	⊙
TELEPHONE PEDESTAL	⊙	ELECTRIC TOWER	⊙

NOTE

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, PORTAGE COUNTY ZONE, NAD 83 (1991) IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT. THE MONUMENTS ARE TYPE 2 (3/4" X 24" REBAR 1.50#/FT.)

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

BEGIN RELOCATION ORDER

STA. 10+00.00

Y=198883.286

X=190382.974

519.45' WEST AND 9.74' NORTH OF THE SE COR. G.L.20, SEC. 31, T24N, R9E

T-24-N

END RELOCATION ORDER

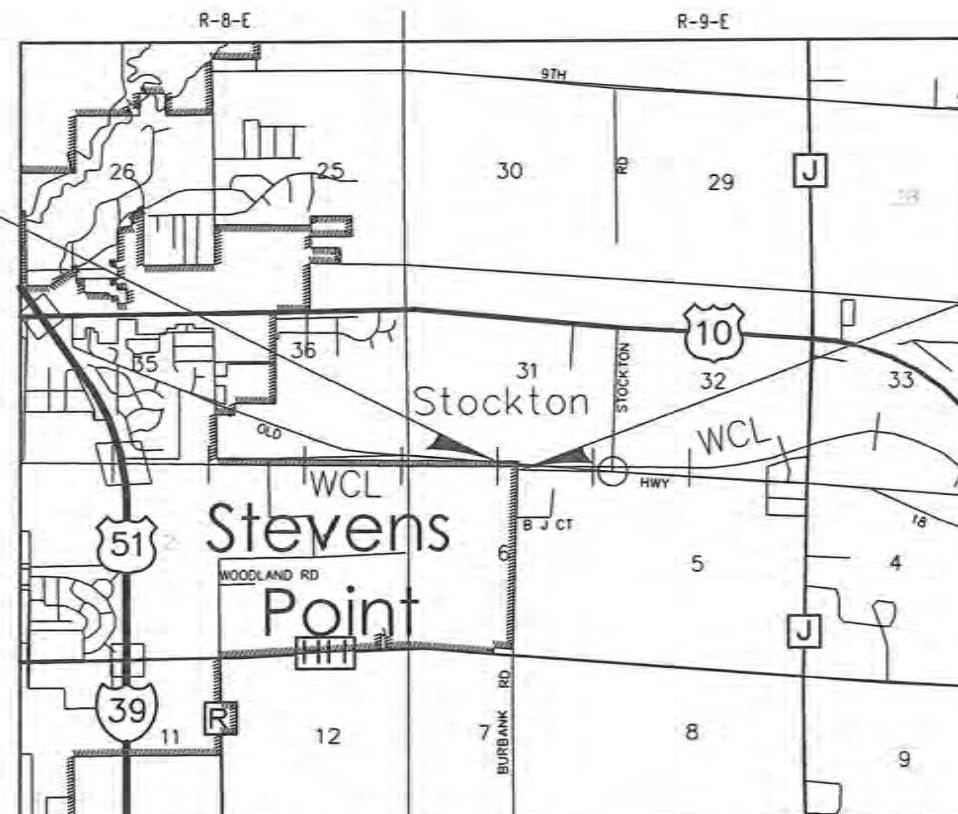
STA. 8T+50.00

Y=198697.389

X=191468.519

577.76' EAST AND 85.50' SOUTH OF THE SE COR. G.L.20, SEC. 31, T24N, R9E

T-23-N



N

LAYOUT

SCALE 0 1/2 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.237 MI.

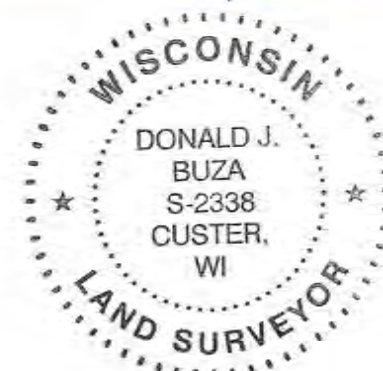
ACCEPTED FOR TOWN OF STOCKTON

DATE: 5-13-13 *Michael Brown*
(Signature)

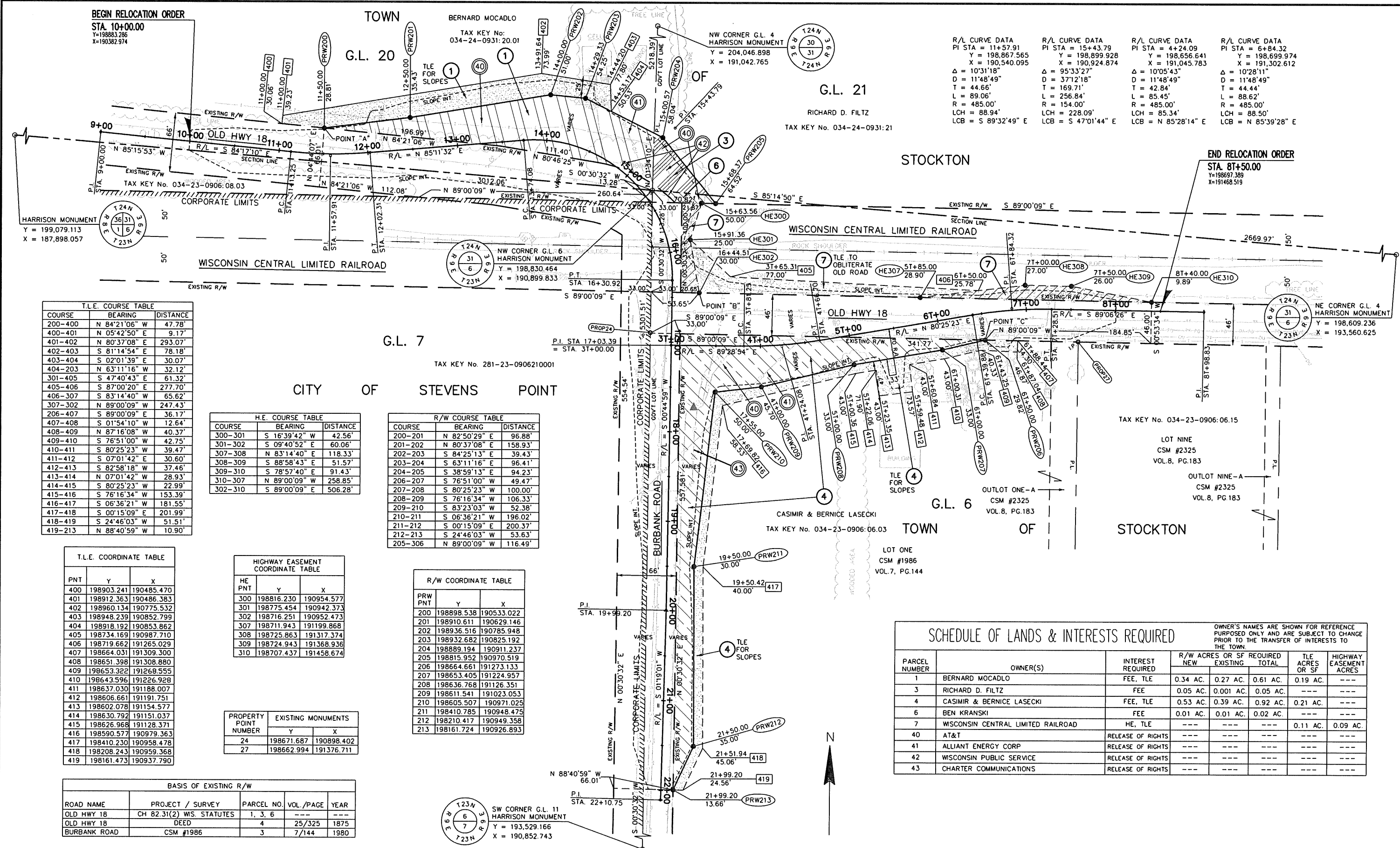
PREPARED BY

Surveyor: POINT OF BEGINNING, INC.

DATE: 5/13/13 *Donald J. Buza*
(Signature)



REVISION DATE



T.L.E. COURSE TABLE		
COURSE	BEARING	DISTANCE
200-400	N 84°21'06" W	47.78'
400-401	N 05°42'50" E	9.17'
401-402	N 80°37'08" E	293.07'
402-403	S 81°14'54" E	78.18'
403-404	S 02°01'39" E	30.07'
404-203	N 63°11'16" W	32.12'
301-405	S 47°40'43" E	61.32'
405-406	S 87°00'20" E	277.70'
406-307	S 83°14'40" W	65.62'
307-302	N 89°00'09" W	247.43'
206-407	S 89°00'09" E	36.17'
407-408	S 01°54'10" W	12.64'
408-409	N 87°16'08" W	40.37'
409-410	S 76°51'00" W	42.75'
410-411	S 80°25'23" W	39.47'
411-412	S 07°01'42" E	30.60'
412-413	S 82°58'18" W	37.46'
413-414	N 07°01'42" W	28.93'
414-415	S 80°25'23" W	22.99'
415-416	S 76°16'34" W	153.39'
416-417	S 06°36'21" W	181.55'
417-418	S 00°15'09" E	201.99'
418-419	S 24°46'03" W	51.51'
419-213	N 88°40'59" W	10.90'

H.E. COURSE TABLE		
COURSE	BEARING	DISTANCE
300-301	S 16°39'42" W	42.56'
301-302	S 09°40'52" E	60.06'
302-308	N 83°14'40" E	118.33'
308-309	S 88°58'43" E	51.57'
309-310	S 78°57'40" E	91.43'
310-307	N 89°00'09" W	258.85'
302-310	S 89°00'09" E	506.28'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
200-201	N 82°50'29" E	96.88'
201-202	N 80°37'08" E	158.93'
202-203	S 84°25'13" E	39.43'
203-204	S 63°11'16" E	96.41'
204-205	S 38°59'13" E	94.23'
206-207	S 76°51'00" W	49.47'
207-208	S 80°25'23" W	100.00'
208-209	S 76°16'34" W	106.33'
209-210	S 83°23'03" W	52.38'
210-211	S 06°36'21" W	196.02'
211-212	S 00°15'09" E	200.37'
212-213	S 24°46'03" W	53.63'
205-306	N 89°00'09" W	116.49'

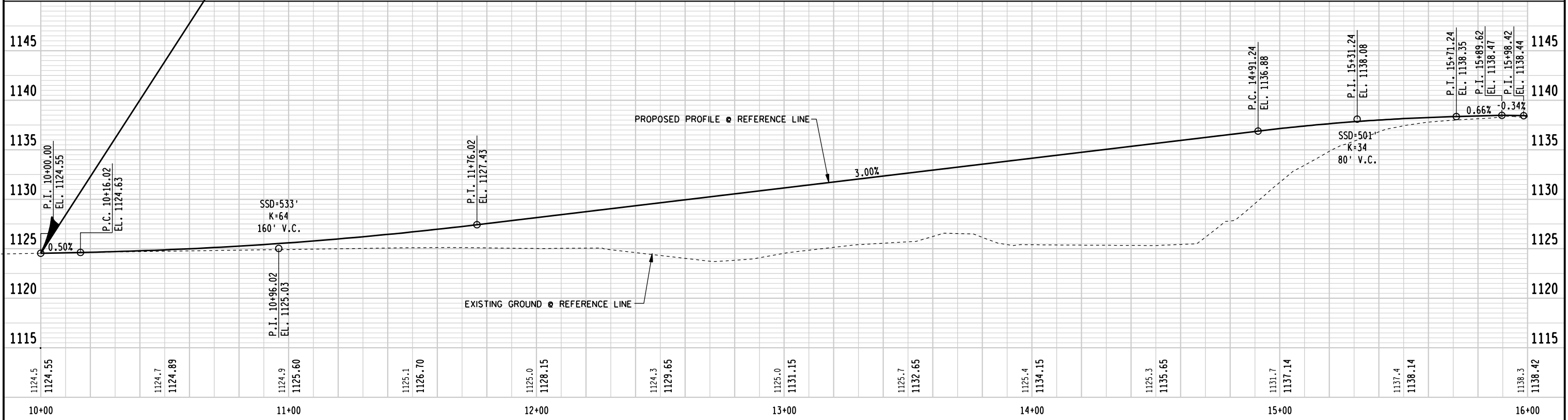
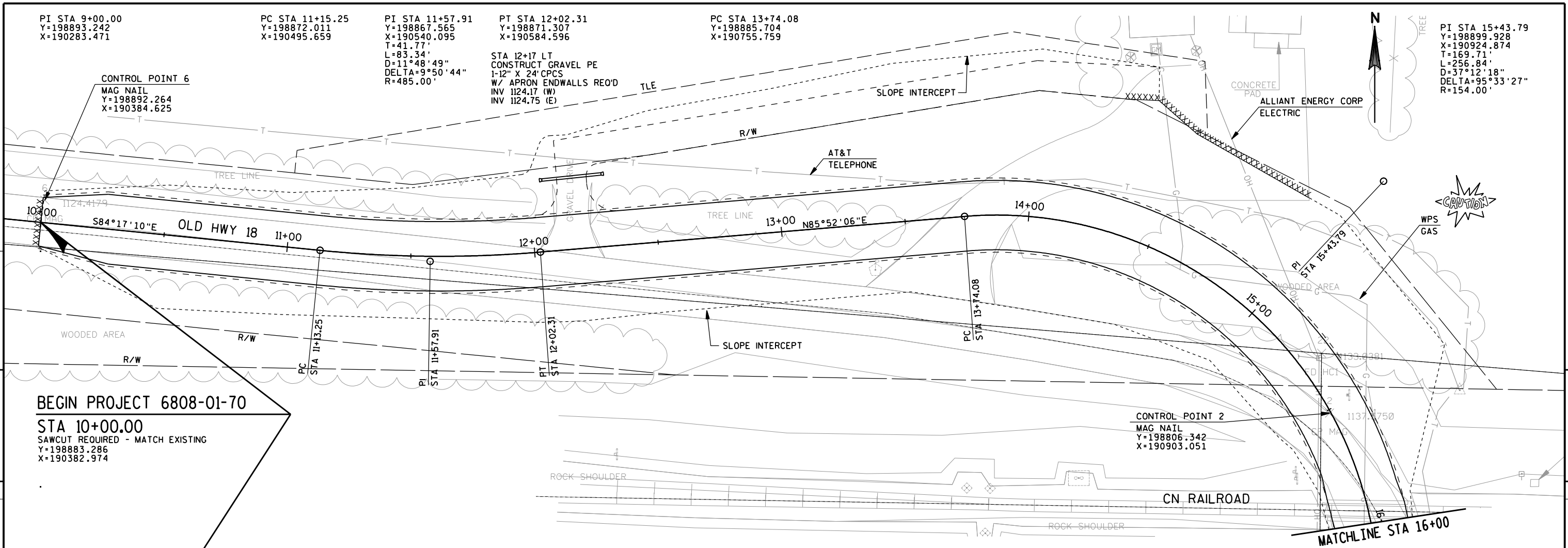
T.L.E. COORDINATE TABLE		
PNT	Y	X
400	198903.241	190485.470
401	198912.363	190486.383
402	198960.134	190775.532
403	198948.239	190852.799
404	198918.192	190853.862
405	198734.169	190987.710
406	198719.662	191265.029
407	198664.031	191309.300
408	198651.398	191308.880
409	198653.322	191268.555
410	198643.596	191226.928
411	198637.030	191188.007
412	198606.661	191191.751
413	198602.078	191154.577
414	198630.792	191151.037
415	198626.968	191128.371
416	198590.577	190979.363
417	198410.230	190958.478
418	198208.243	190959.368
419	198161.473	190937.790

HIGHWAY EASEMENT COORDINATE TABLE		
HE PNT	Y	X
300	198816.230	190954.577
301	198775.454	190942.373
302	198716.251	190952.473
307	198711.943	191199.868
308	198725.863	191317.374
309	198724.943	191368.936
310	198707.437	191458.674

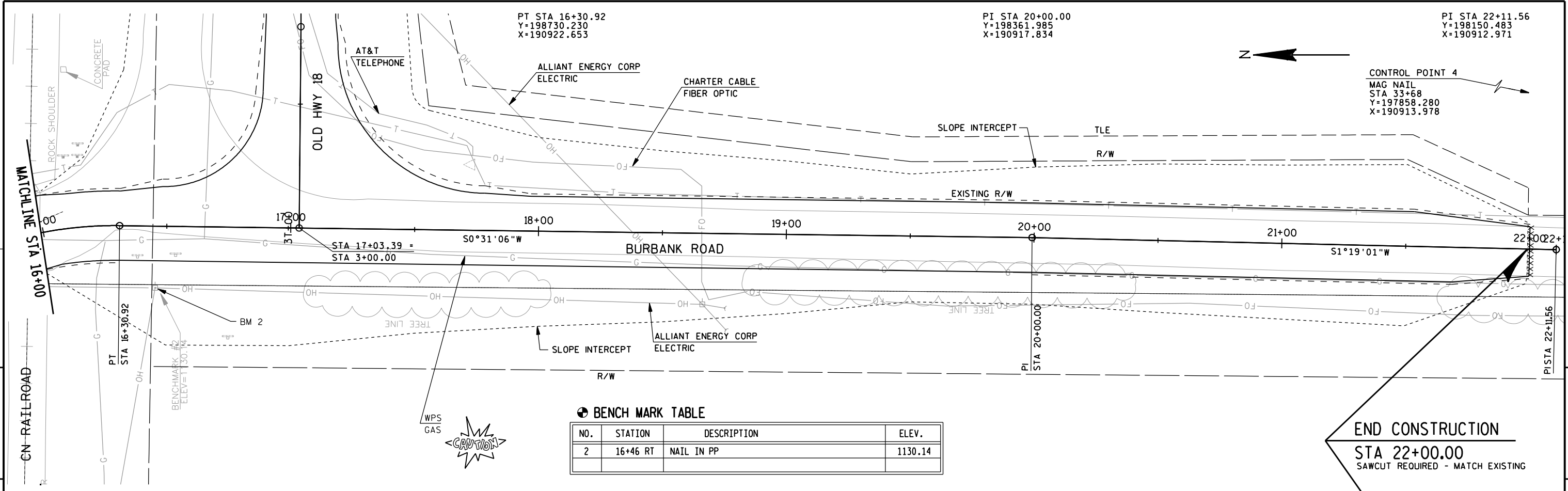
PROPERTY POINT EXISTING MONUMENTS		
POINT NUMBER	Y	X
24	198671.687	190898.402
27	198662.994	191376.711

BASIS OF EXISTING R/W				
ROAD NAME	PROJECT / SURVEY	PARCEL NO.	VOL./PAGE	YEAR
OLD HWY 18	CH 82.31(2) W.S. STATUTES	1, 3, 6	---	---
OLD HWY 18	DEED	4	25/325	1875
BURBANK ROAD	CSM #1986	3	7/144	1980

SCHEDULE OF LANDS & INTERESTS REQUIRED					
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR SF REQUIRED		TLE ACRES OR SF
			NEW	EXISTING	
1	BERNARD MOCADLO	FEE, TLE	0.34 AC.	0.27 AC.	0.61 AC.
3	RICHARD D. FILIZ	FEE	0.05 AC.	0.001 AC.	0.05 AC.
4	CASIMIR & BERNICE LASECKI	FEE, TLE	0.53 AC.	0.39 AC.	0.92 AC.
6	BEN KRANSKI	FEE	0.01 AC.	0.01 AC.	0.02 AC.
7	WISCONSIN CENTRAL LIMITED RAILROAD	HE, TLE	---	---	---
40	AT&T	RELEASE OF RIGHTS	---	---	---
41	ALLIANT ENERGY CORP	RELEASE OF RIGHTS	---	---	---
42	WISCONSIN PUBLIC SERVICE	RELEASE OF RIGHTS	---	---	---
43	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS	---	---	---



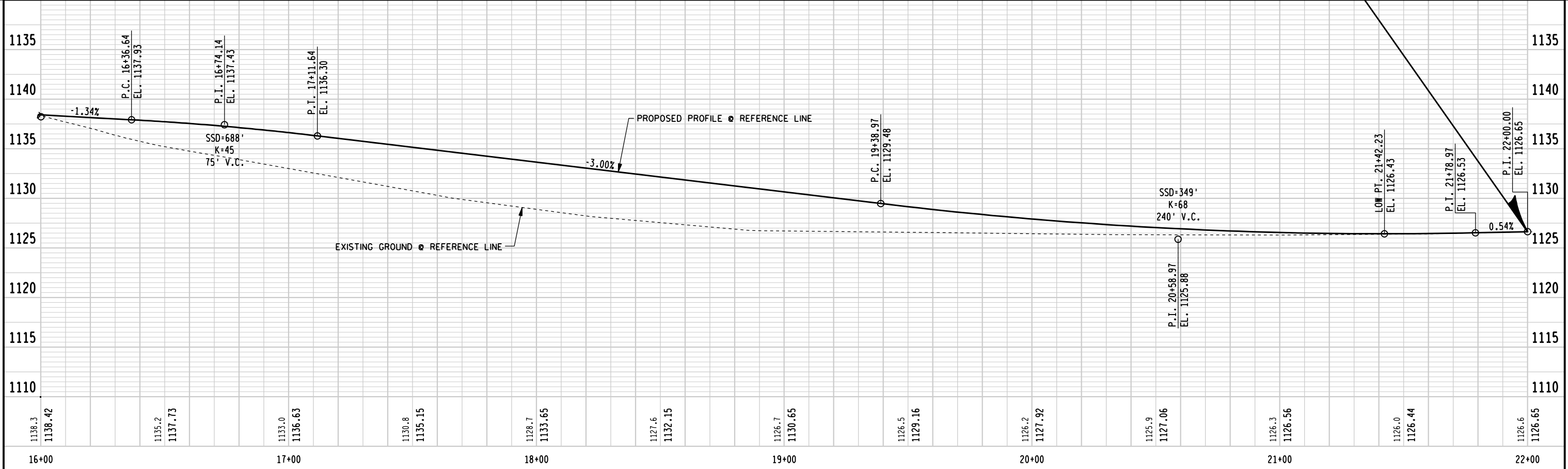
PROJECT NUMBER: 6808-01-70	HWY: OLD HWY 18	COUNTY: PORTAGE	PLAN AND PROFILE - OLD HWY 18	SHEET	E
----------------------------	-----------------	-----------------	-------------------------------	-------	---



BENCH MARK TABLE

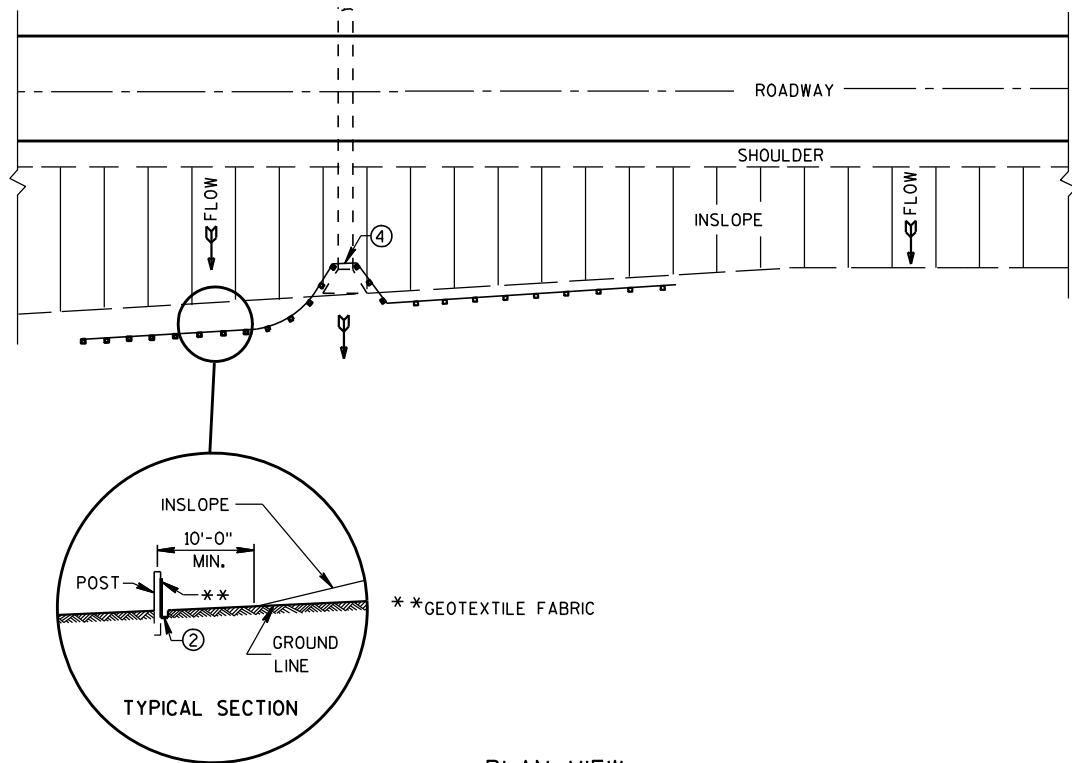
NO.	STATION	DESCRIPTION	ELEV.
2	16+46 RT	NAIL IN PP	1130.14

END CONSTRUCTION
STA 22+00.00
SAWCUT REQUIRED - MATCH EXISTING

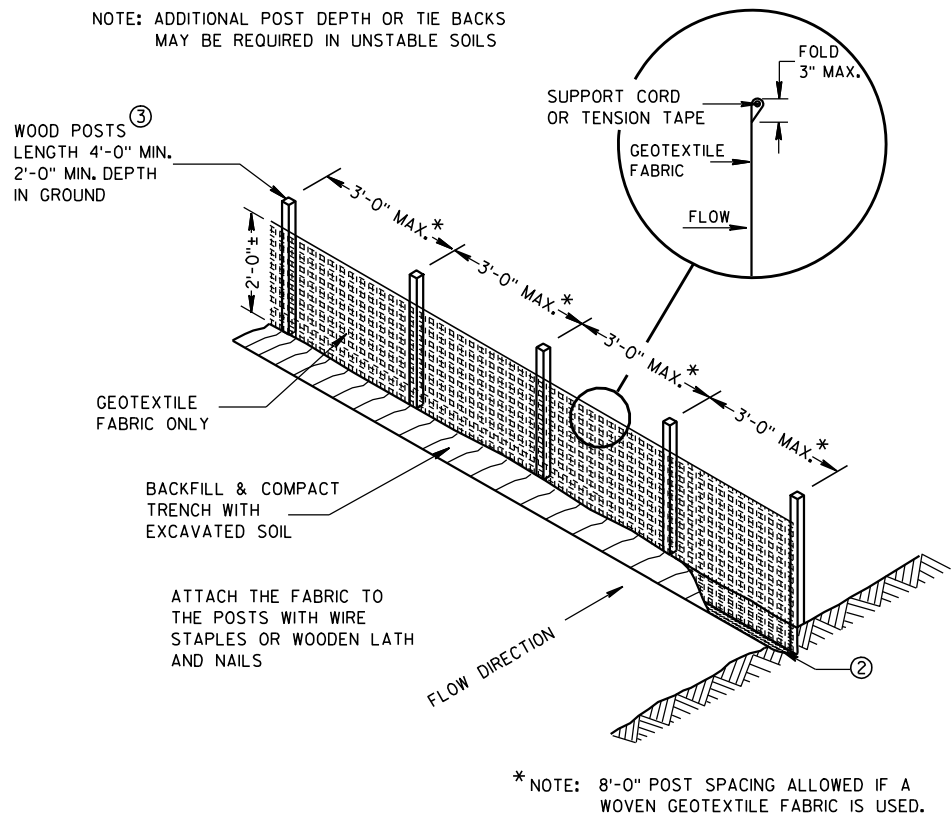


Standard Detail Drawing List

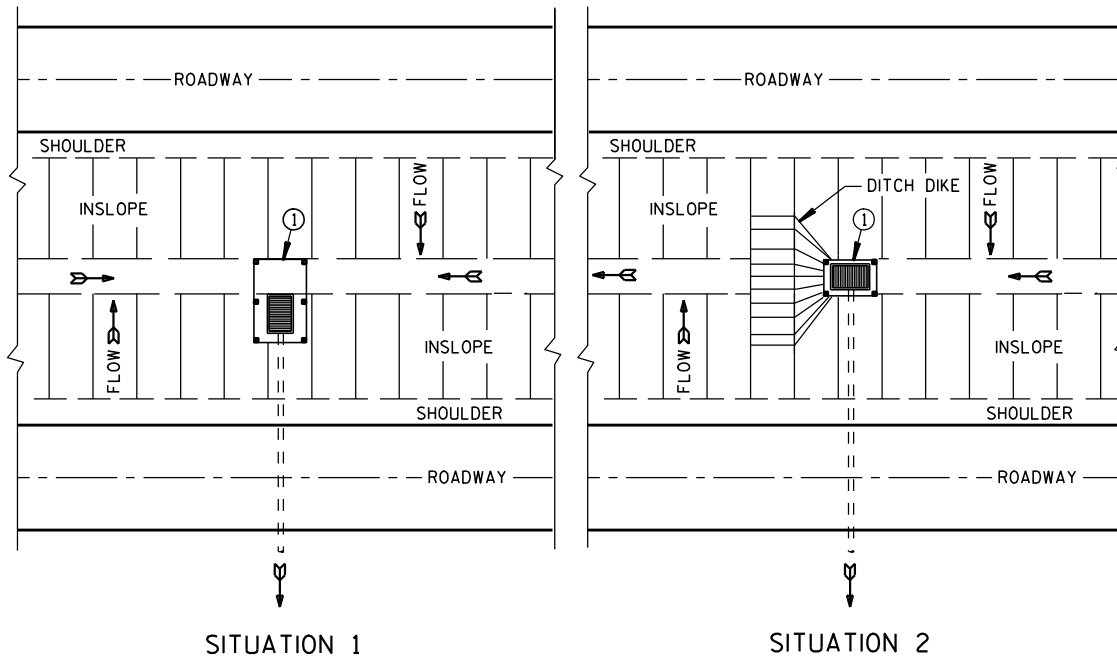
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
13B01-10	PAVEMENT DETAILS FOR RAILROAD APPROACH
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C03-02	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C09-09A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS



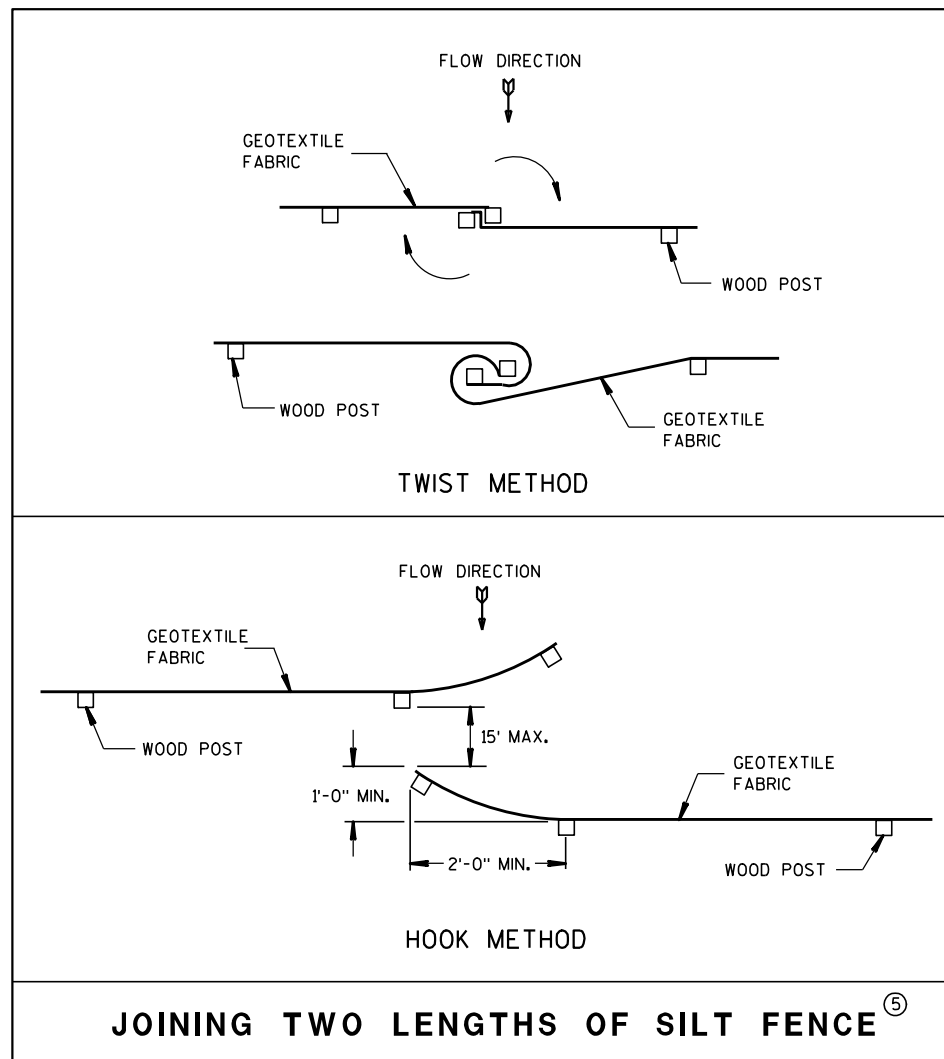
PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE



SILT FENCE



PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

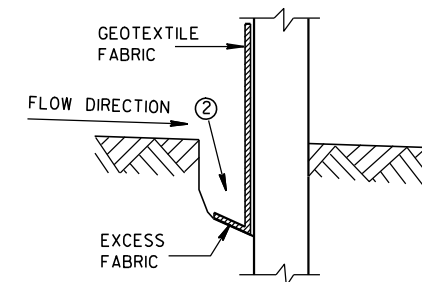


JOINING TWO LENGTHS OF SILT FENCE ⑤

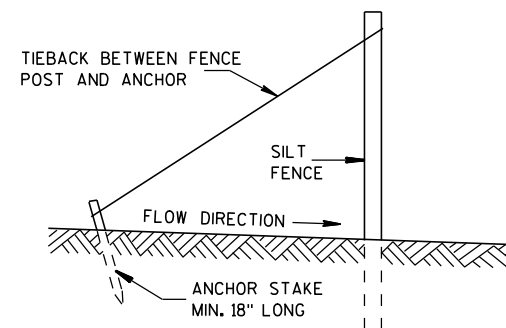
GENERAL NOTES

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 1 1/8" X 1 1/8" 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

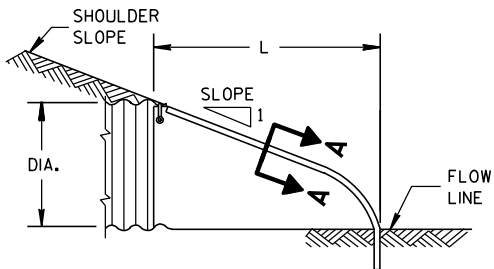
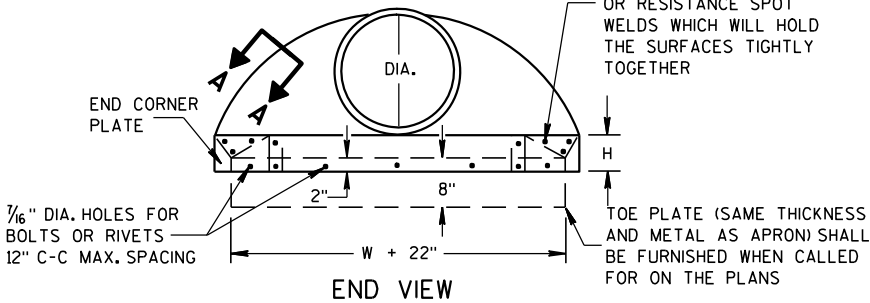
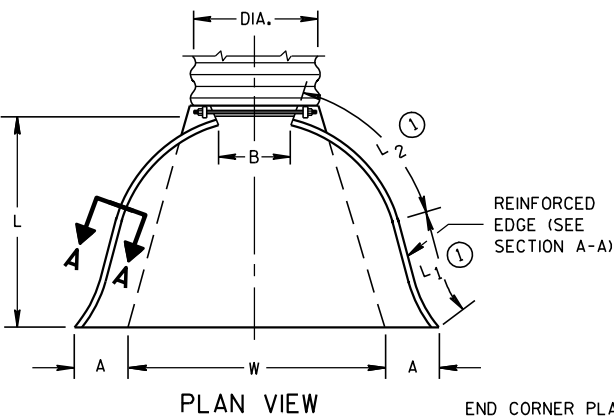


SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-29-05 DATE	/S/ Beth Canestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	

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

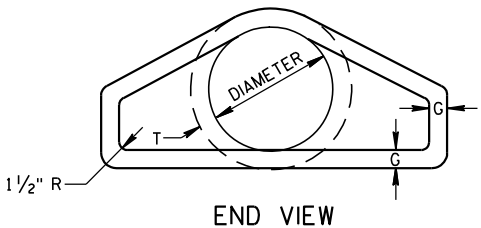
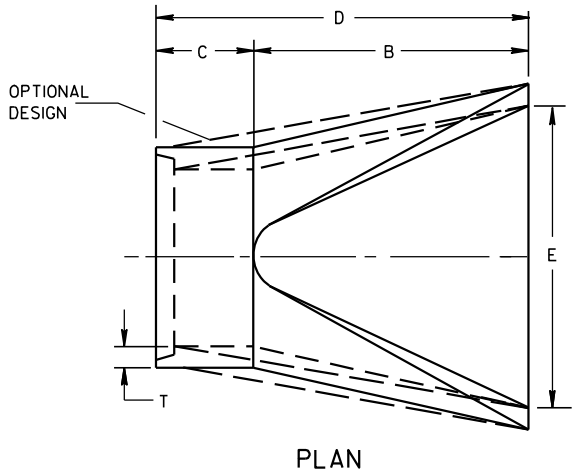
* EXCEPT CENTER PANEL
SEE GENERAL NOTES



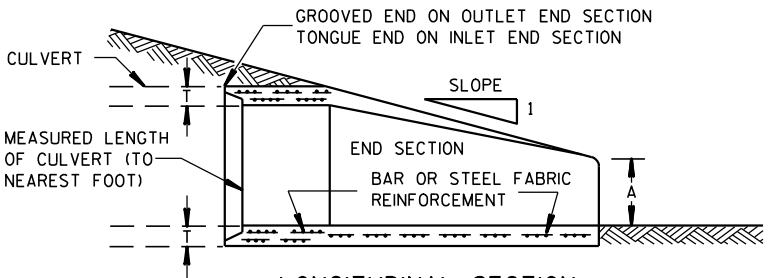
SIDE ELEVATION
METAL ENDWALLS

REINFORCED CONCRETE APRON ENDWALLS								
PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
12	2	4	24	48 ¹ / 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 ¹ / ₂ 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

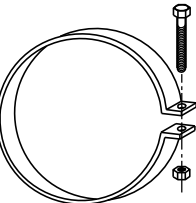
* MINIMUM
** MAXIMUM



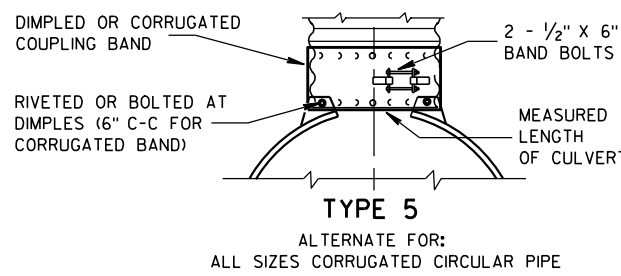
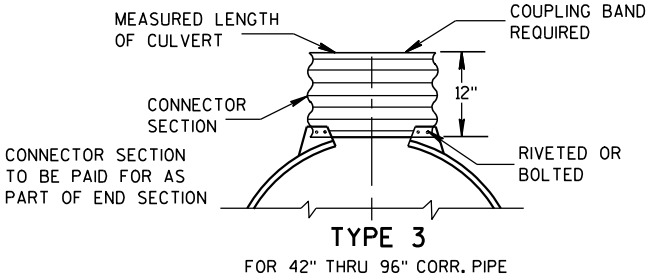
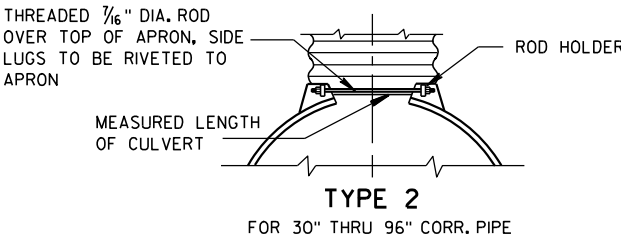
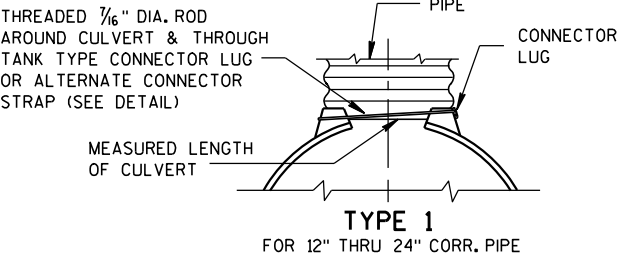
LONGITUDINAL SECTION
CONCRETE ENDWALLS



1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT



ALTERNATE FOR TYPE 1 CONNECTION
END SECTION CONNECTOR STRAP



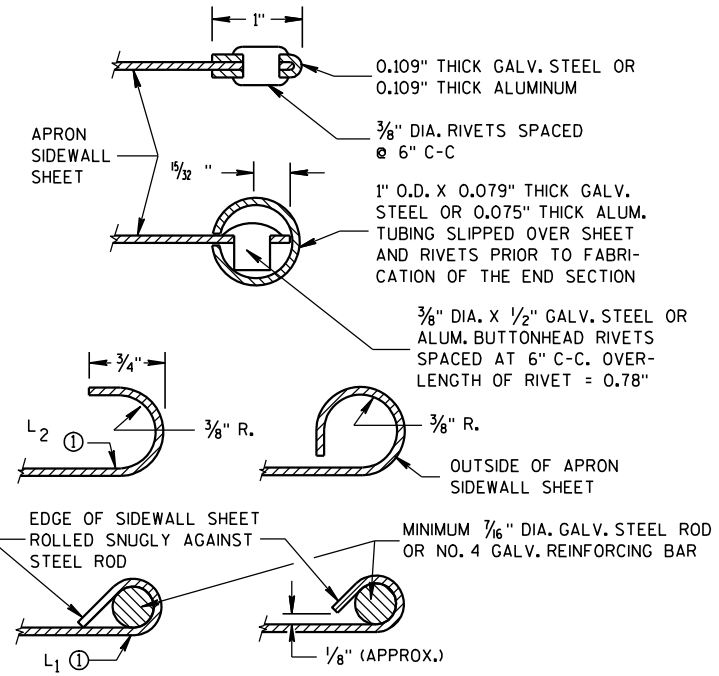
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

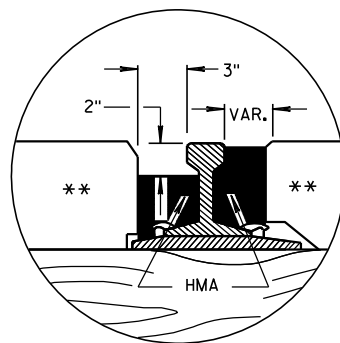
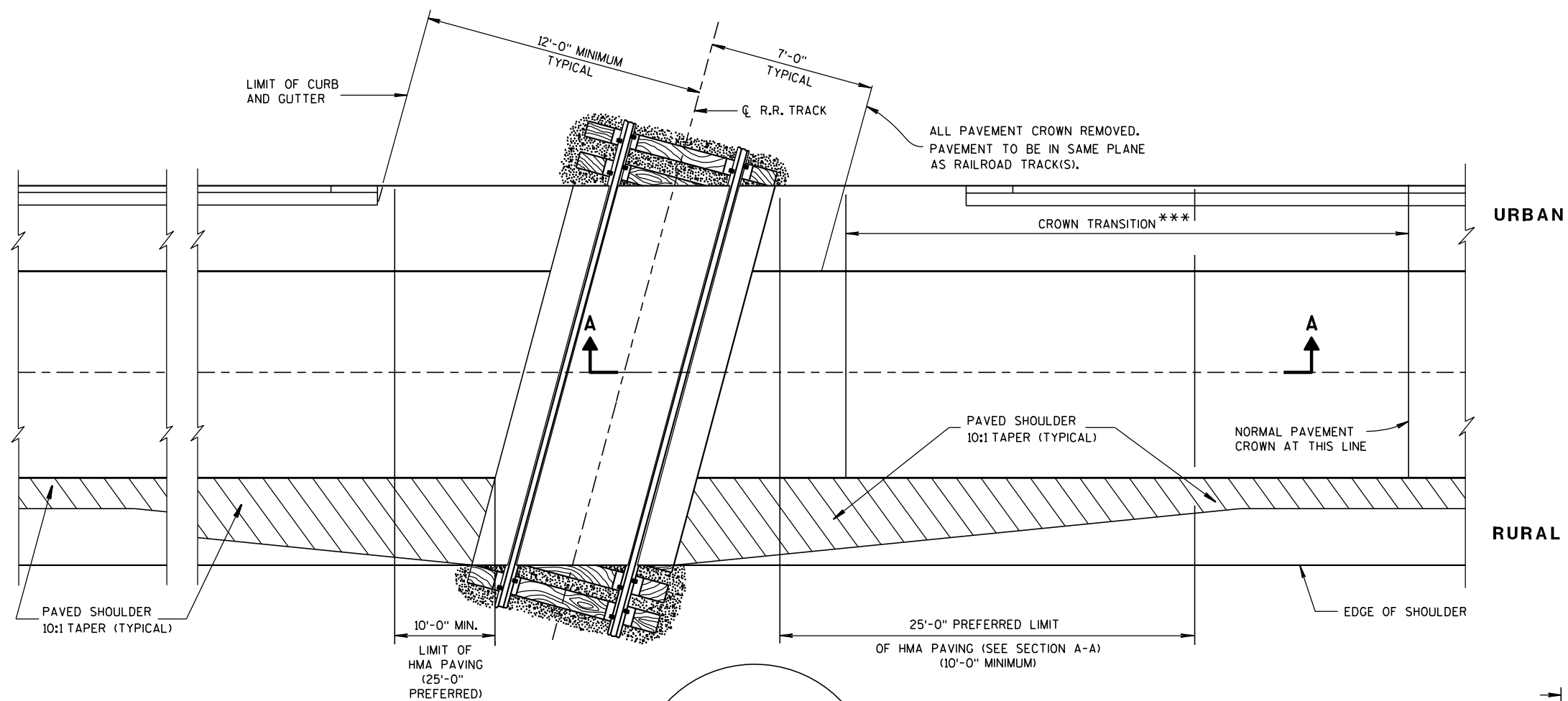
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

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

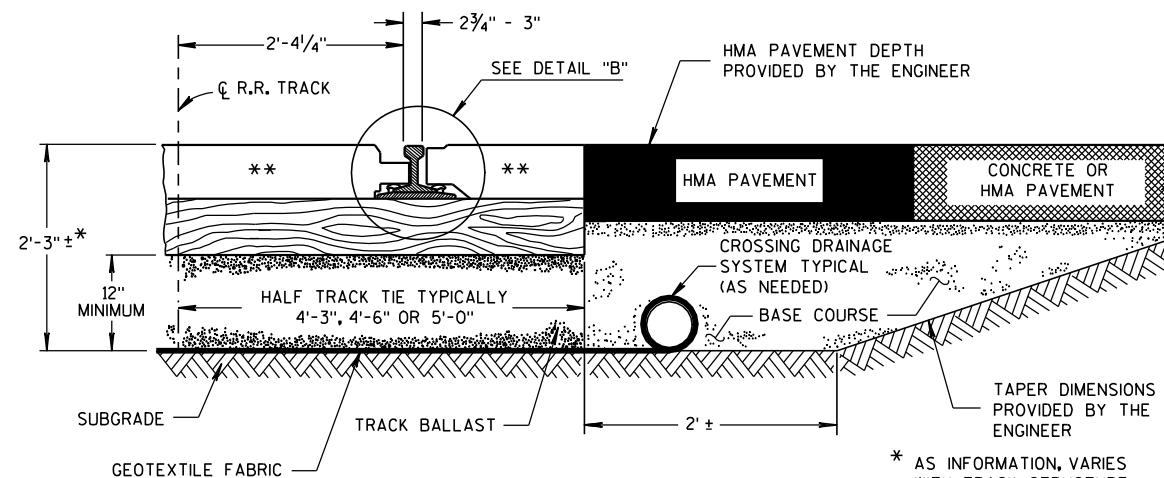
APRON ENDWALLS FOR
CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

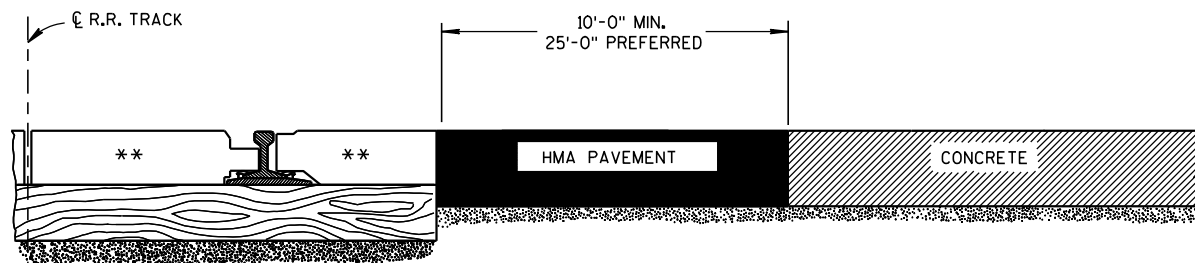
APPROVED
11/30/94
DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



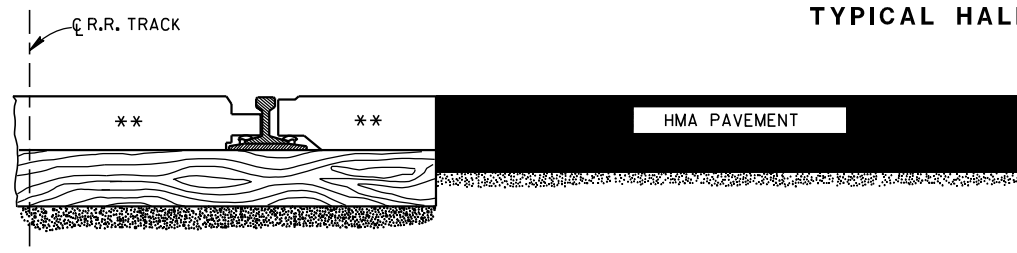
DETAIL B
HMA FLANGEWAY
AND FIELD FILLERS



TYPICAL HALF SECTION



SECTION A-A
CONCRETE PAVEMENT APPROACH



SECTION A-A
HMA PAVEMENT APPROACH

EXAMPLES OF PAVEMENT APPROACHES

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.

TIMBER, CONCRETE OR RUBBER CROSSING SURFACE MATERIAL, RAILS, TIES, BALLAST, GEOTEXTILE FABRIC AND CROSSING DRAINAGE SYSTEM BY OTHERS UNLESS OTHERWISE PROVIDED.

HMA PAVEMENT APPROACHES AND HMA PAVEMENT CROSSING SURFACES TO BE PLACED BY CONTRACTOR UNLESS OTHERWISE PROVIDED.

HMA FLANGEWAY AND FIELD FILLERS TO BE PLACED AND THOROUGHLY HAND COMPACTED BY THE CONTRACTOR WHEN NOT PROVIDED BY OTHERS. SEE DETAIL B. HMA FILLERS NOT REQUIRED WHEN RUBBER FILLERS ARE PROVIDED.

HMA PAVEMENT SHALL BE ROLLED PARALLEL TO THE TRACK.

** CROSSING SURFACE MAY BE TIMBER, RUBBER, CONCRETE, HMA PAVEMENT OR A COMBINATION OF SUCH MATERIALS.

*** CROWN TRANSITION LENGTH SHOWN ELSEWHERE IN THE PLAN.

PAVEMENT DETAILS FOR RAILROAD APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

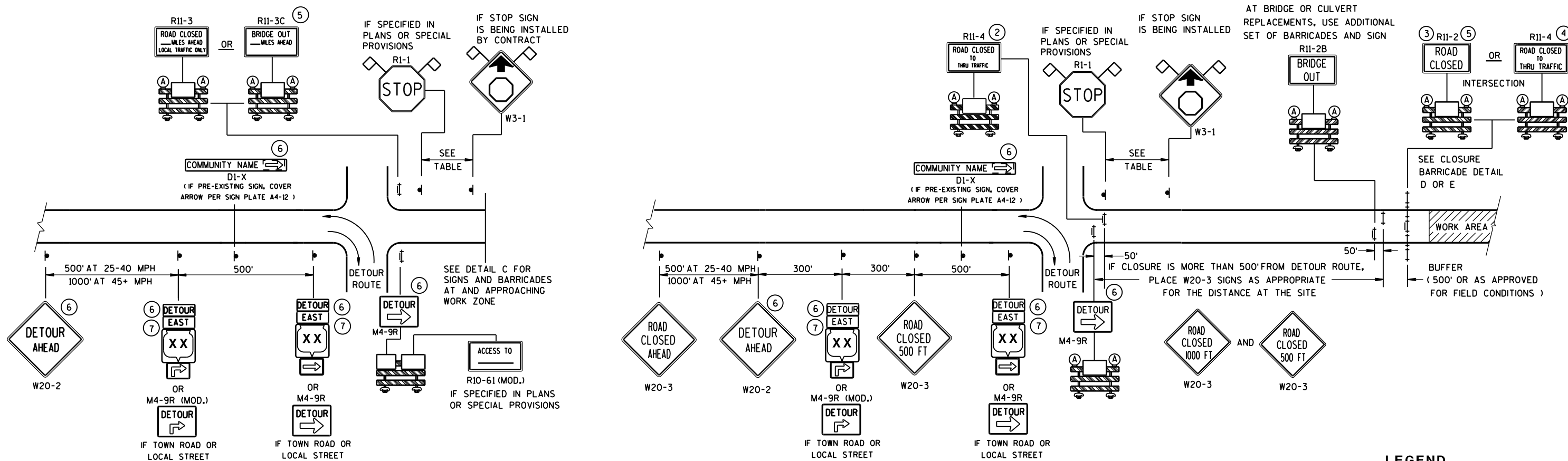
APPROVED

8-28-09

DATE

FHWA

/S/ Ronald E. Adams
CHIEF, RAILROADS & HARBORS SECTION



LEGEND

- SIGN ON PERMANENT SUPPORT
- ⊥ TYPE III BARRICADE
- ⊥ TYPE III BARRICADE WITH ATTACHED SIGN
- Ⓐ TYPE "A" WARNING LIGHT (FLASHING)

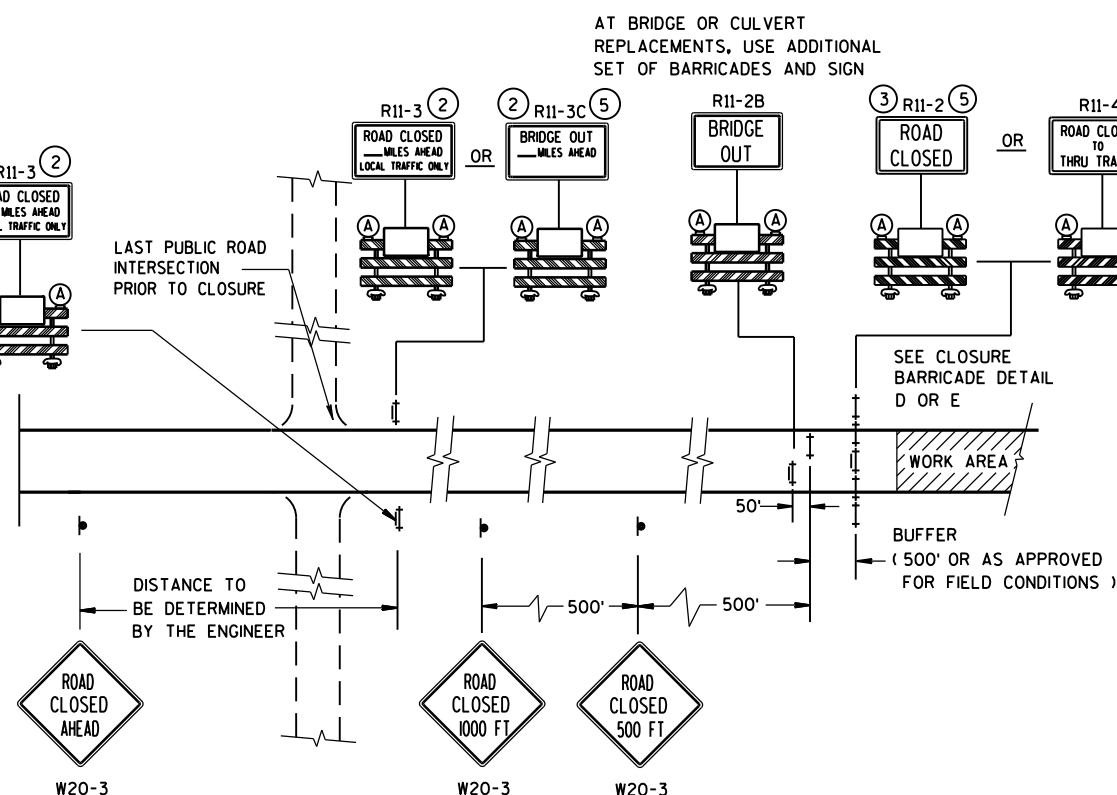
WORK AREA

DETOUR EAST M4-8 M3-X
XX OR COUNTY XX OR XX
M1-4 M1-5A M1-6

M05-1 OR M06-1

FLAGS, 16" X 16" MIN., (ORANGE)

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

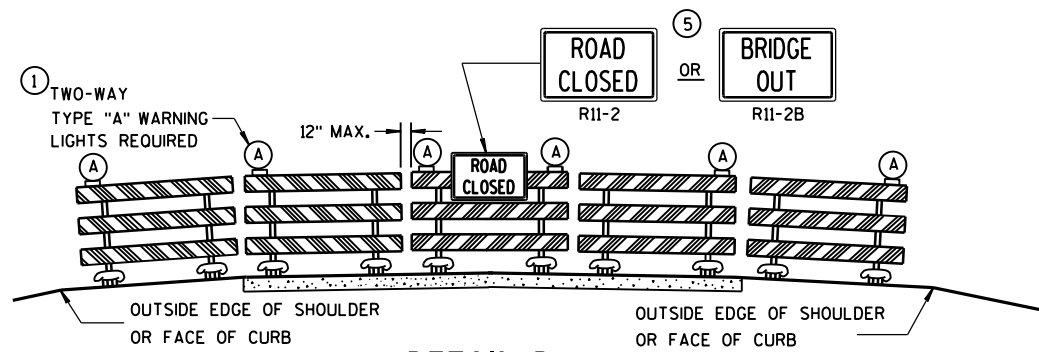


SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

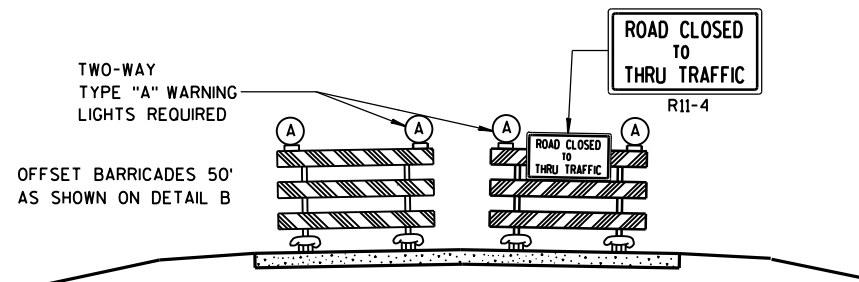
BARRICADES AND SIGNS
FOR
MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



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 BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE 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, 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". (30" X 15" 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.)

M05-1 AND M06-1 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.

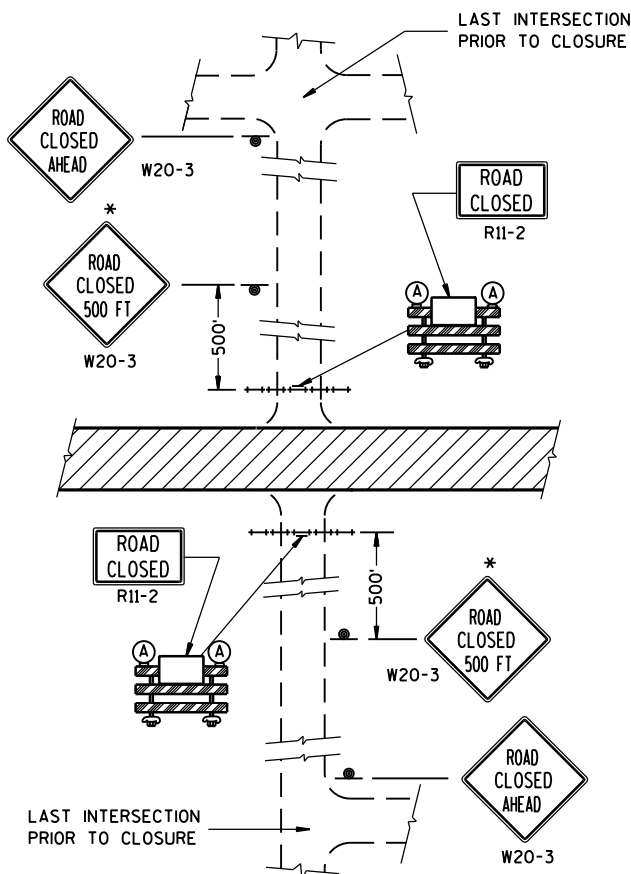
R1-1 SHALL BE 36" X 36".

- 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 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 LANE 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.

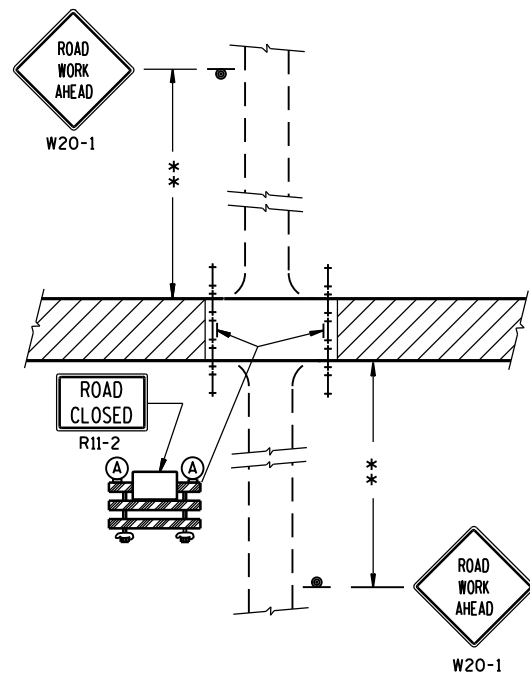
BARRICADES AND SIGNS
FOR
MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

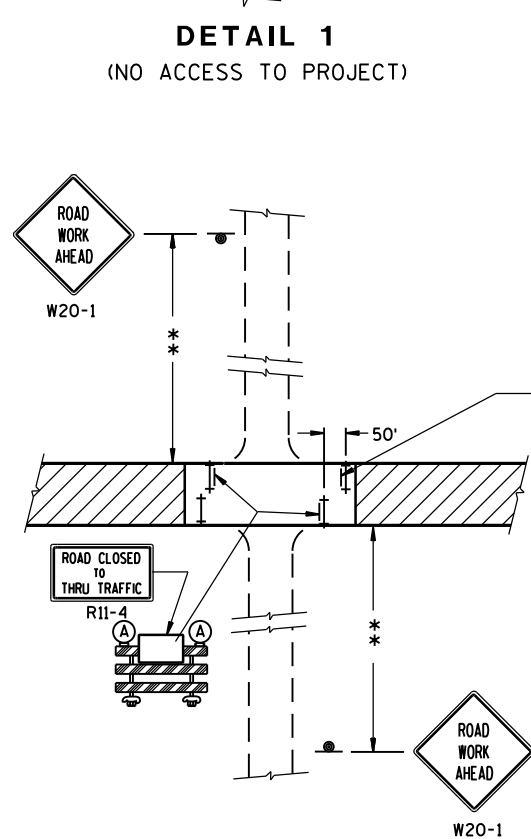
8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



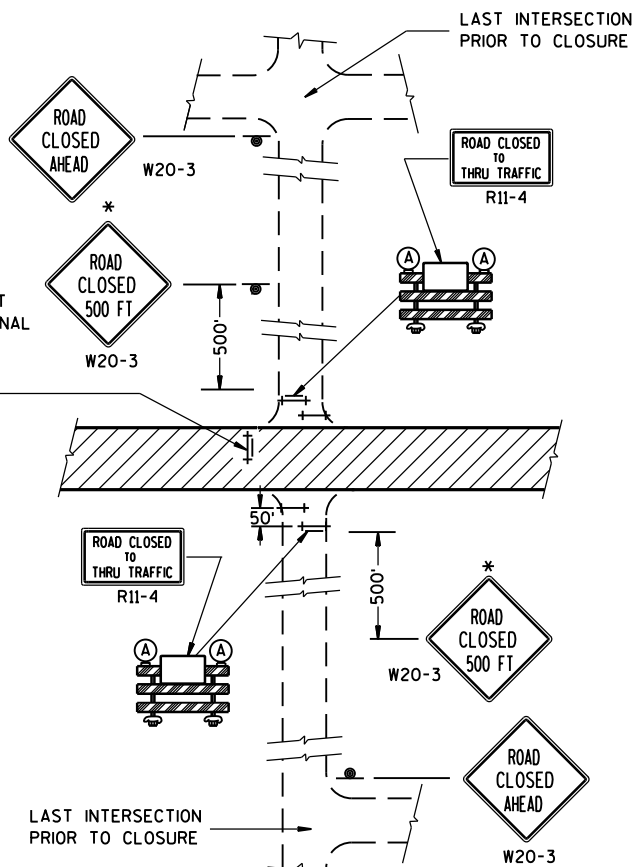
DETAIL 1
(NO ACCESS TO PROJECT)



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.

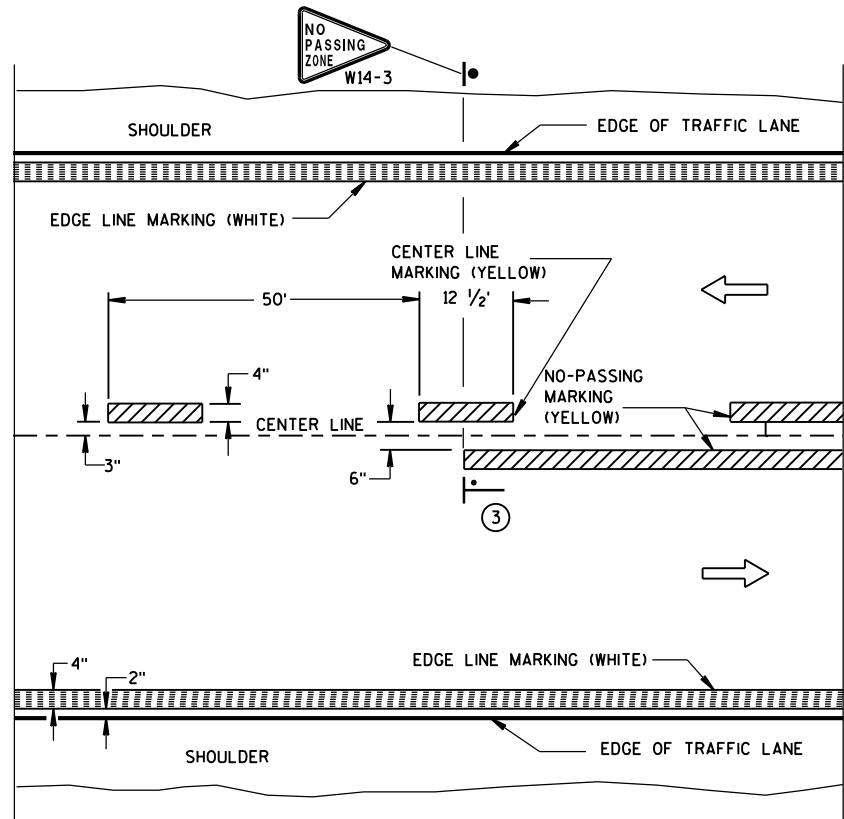
LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ⊢ TYPE III BARRICADE
- ⊢ TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- ▨ WORK AREA

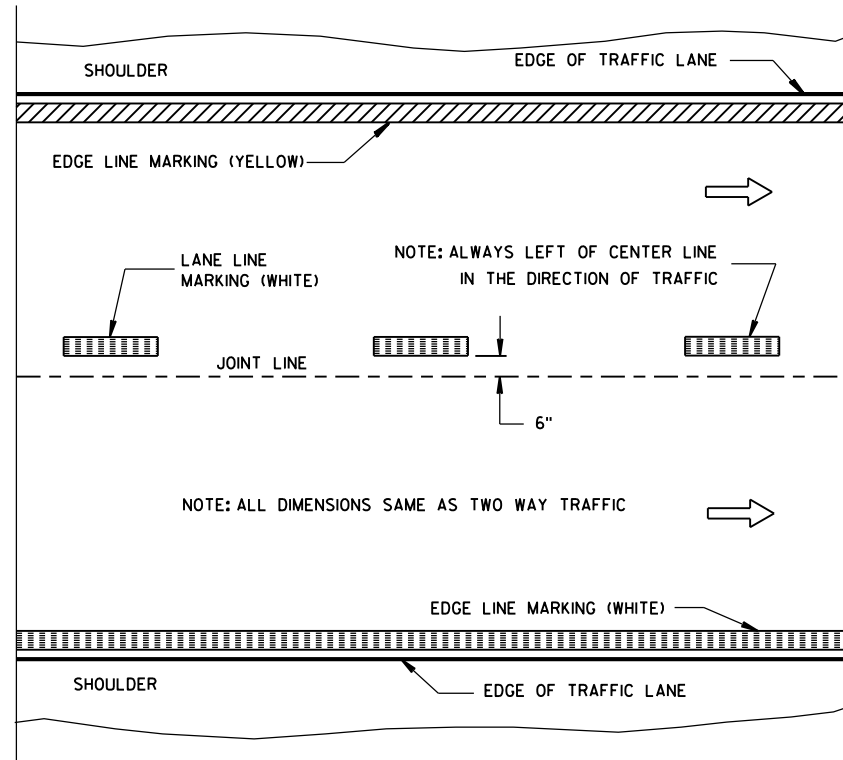
BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA

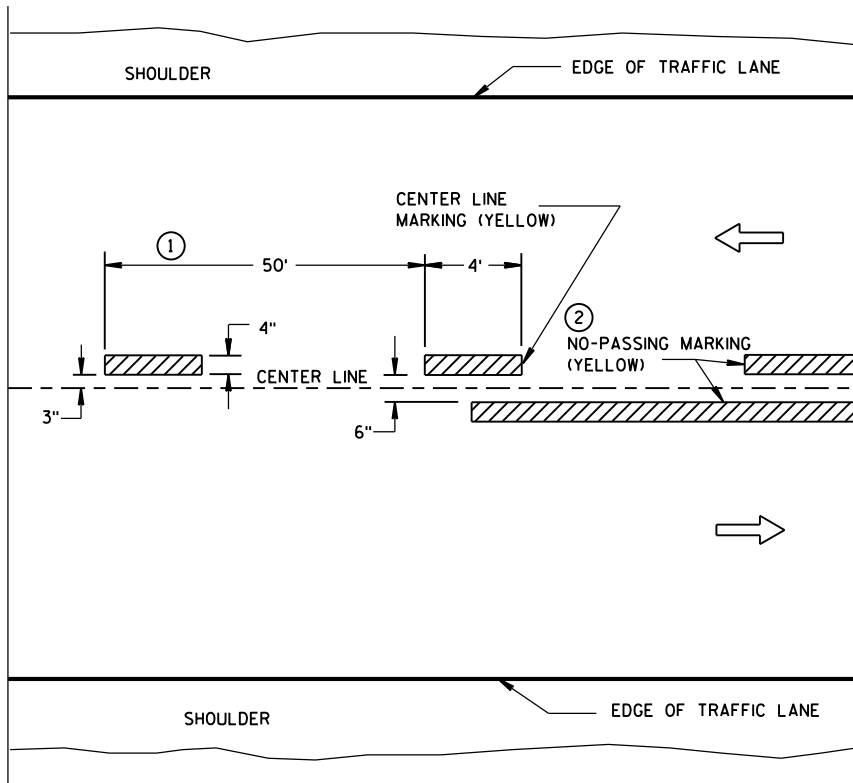


TWO WAY TRAFFIC

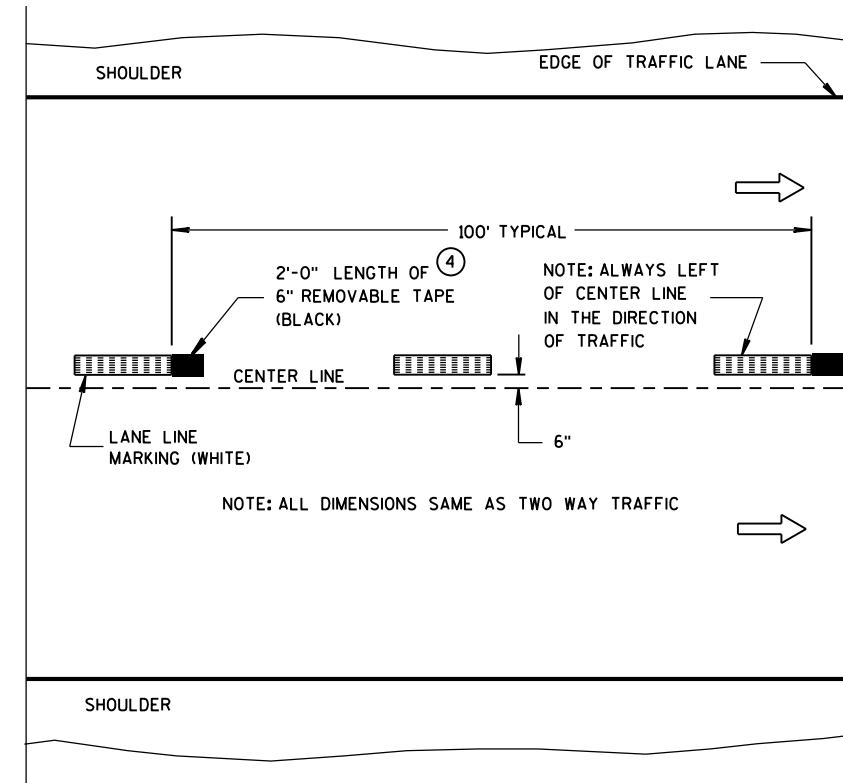


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING
(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

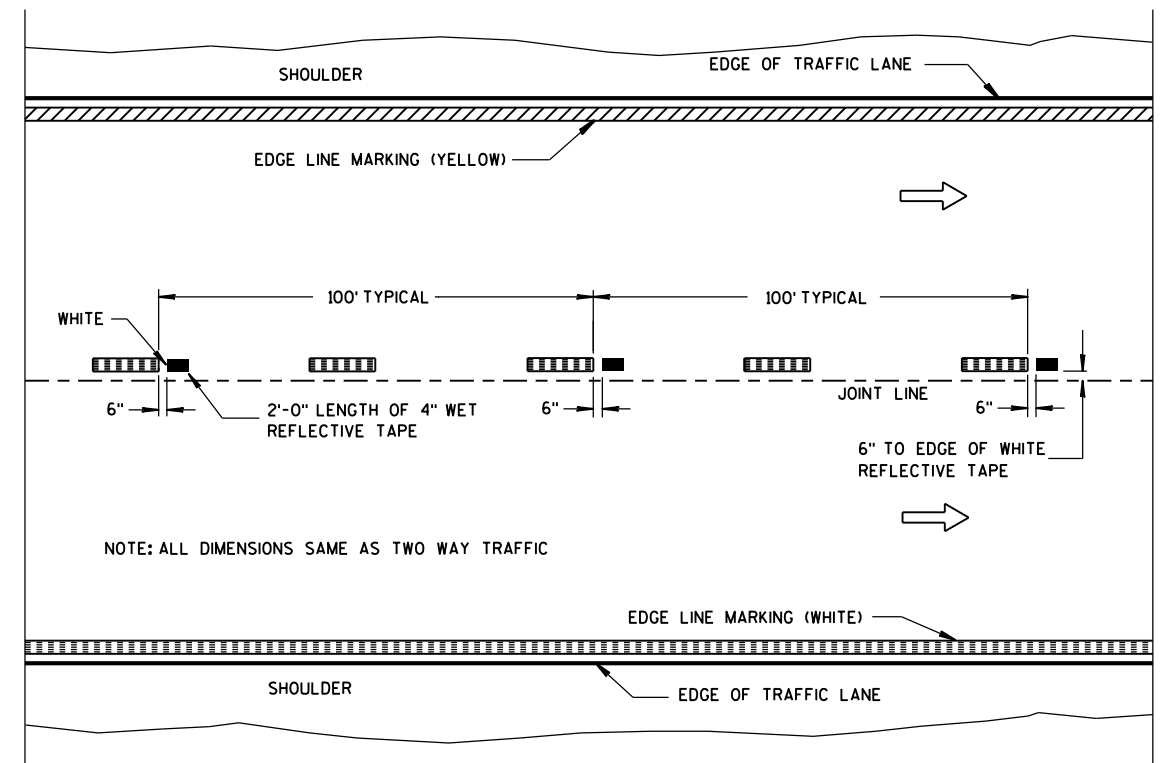
GENERAL NOTES

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

- 1 HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- 2 NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
- 3 NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
- 4 CONCRETE ONLY.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

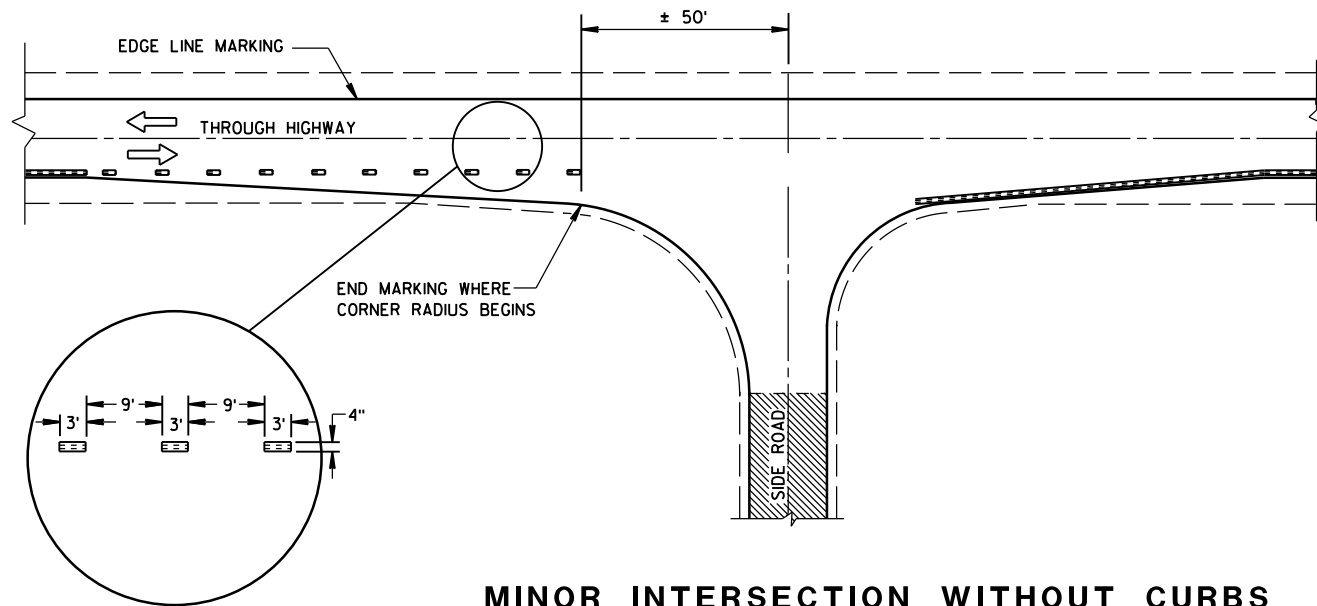
LEGEND

- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

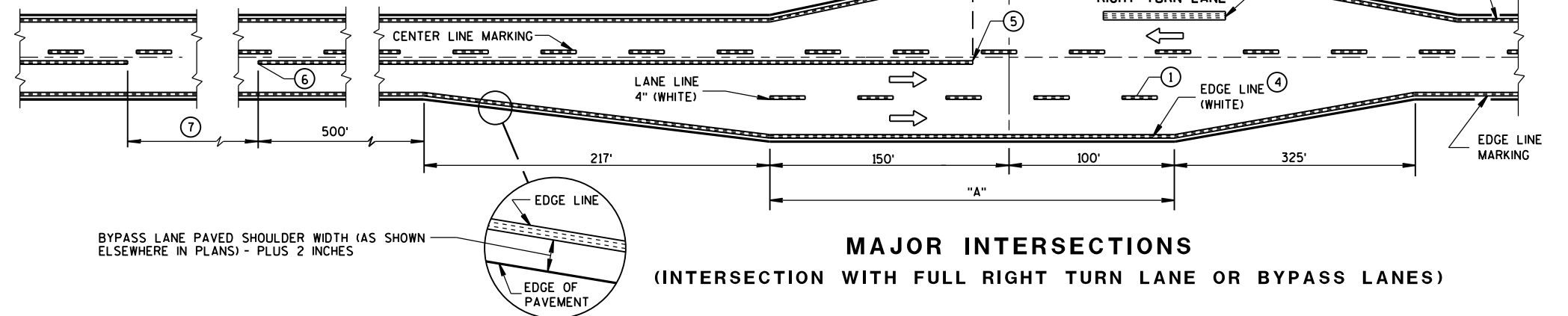
APPROVED
5-13-2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER
FHWA



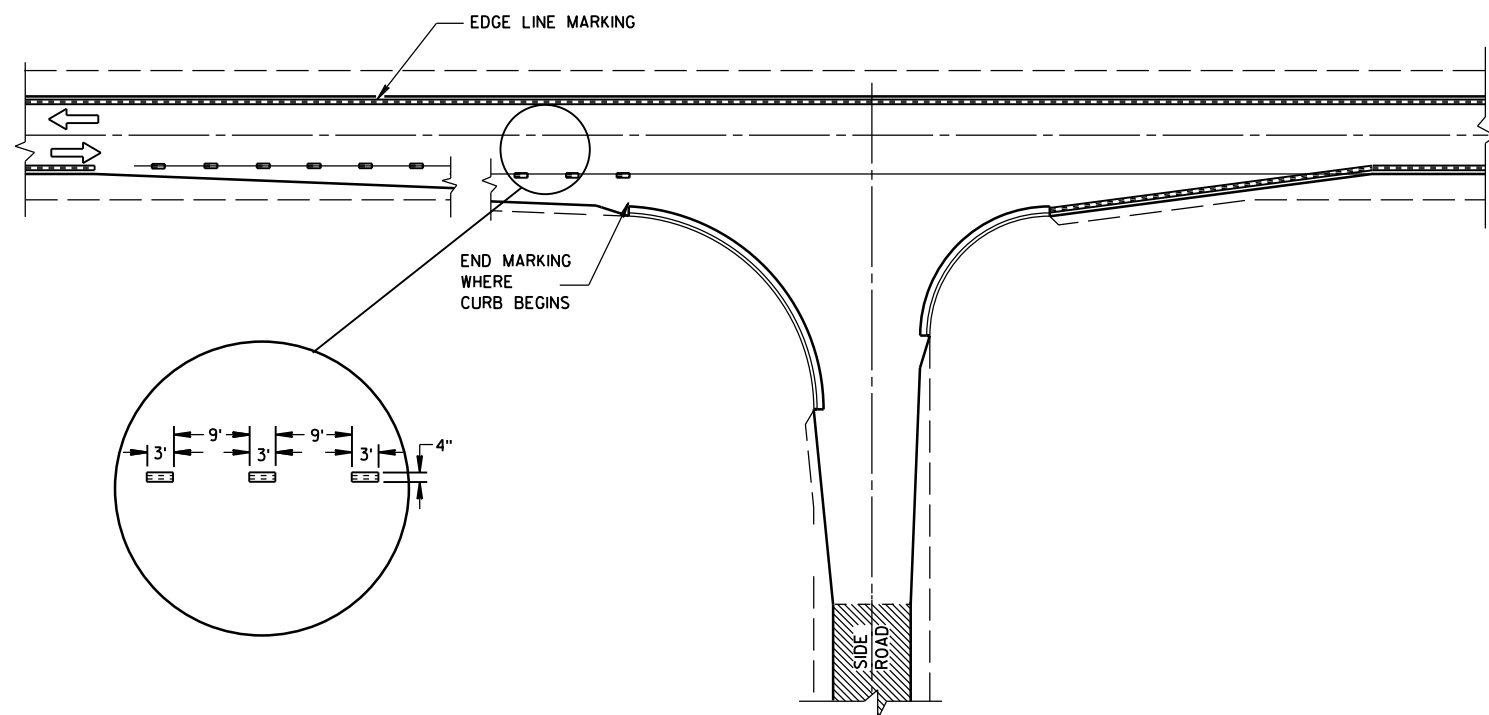
MINOR INTERSECTION WITHOUT CURBS

⑦

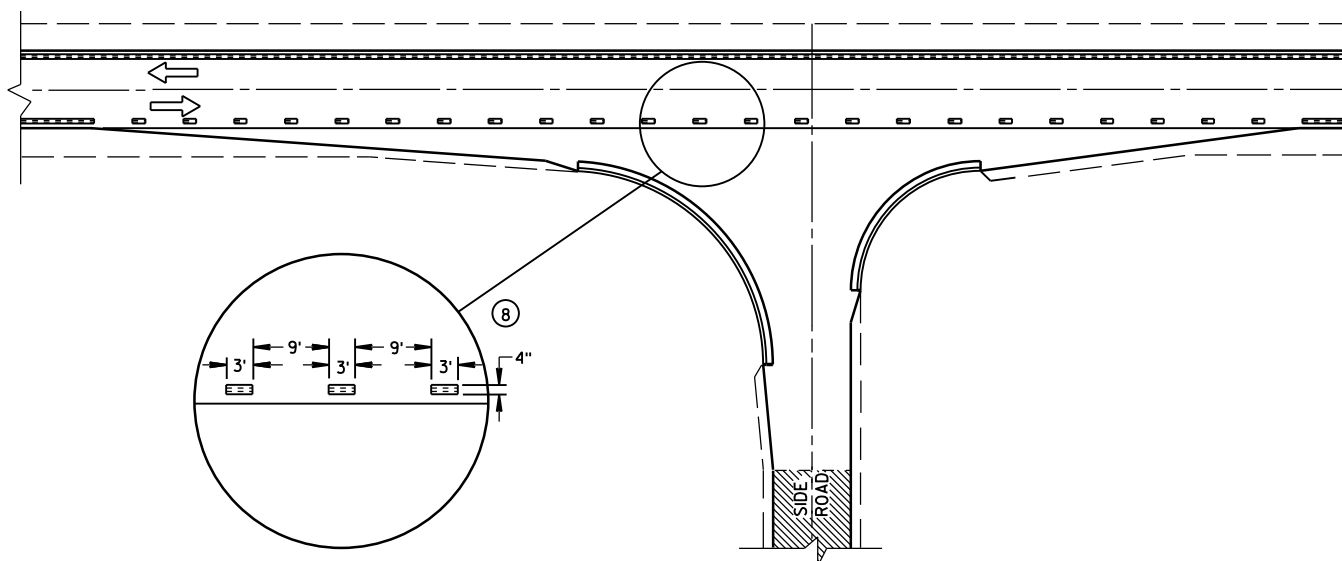
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



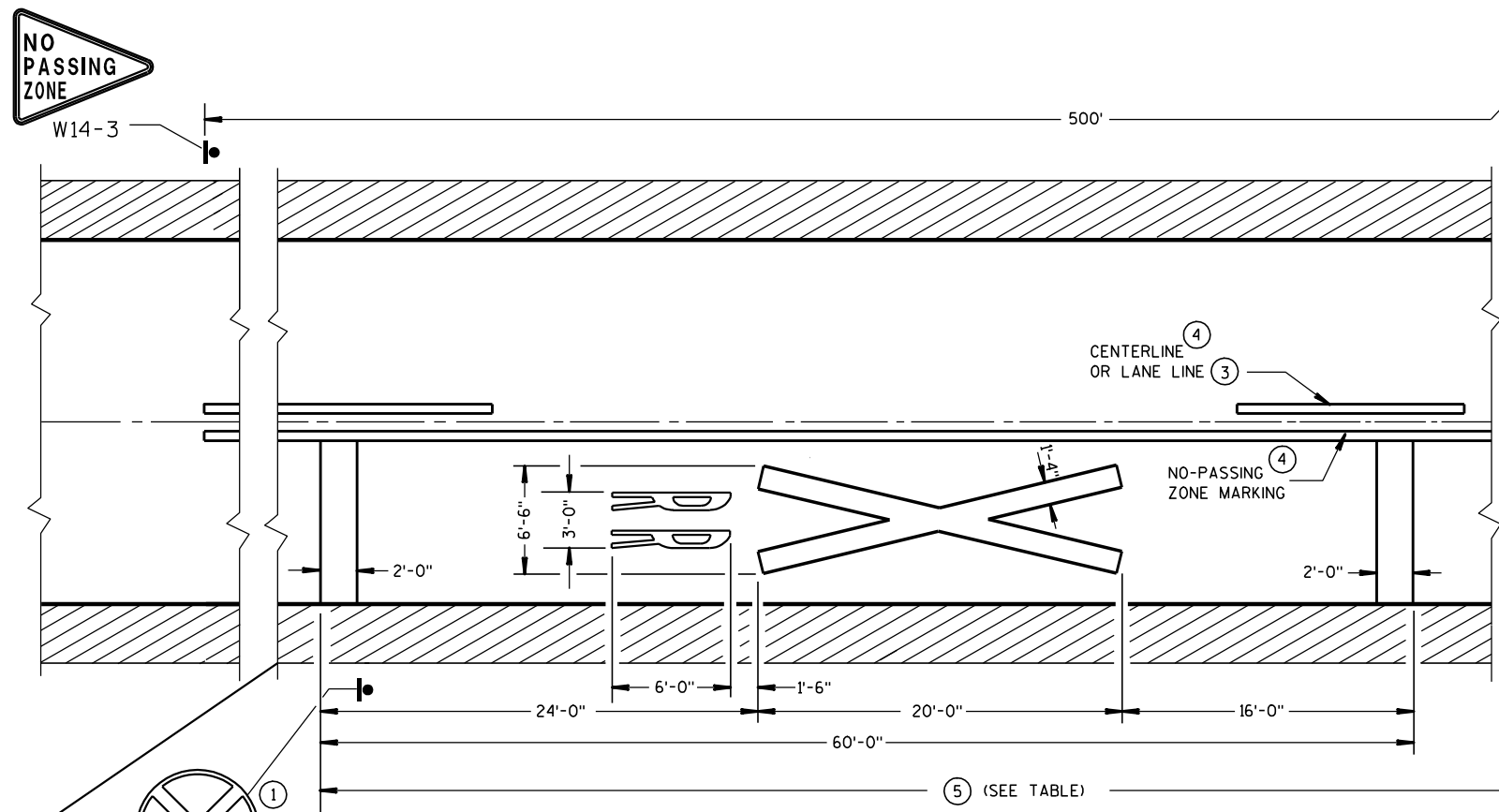
MINOR INTERSECTION WITH CURBS
③ (FOR SPECIAL CONDITIONS AS SPECIFIED)

GENERAL NOTES

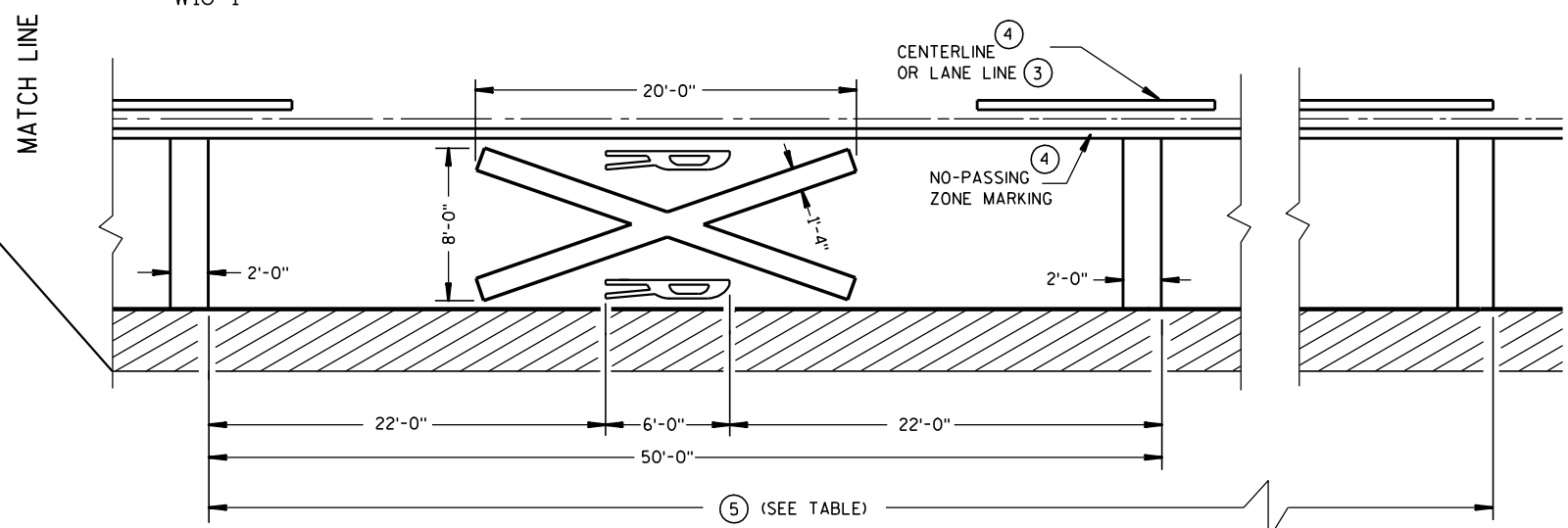
- EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
 - ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
 - ③ ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.
 - ④ THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.
 - ⑤ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
 - ⑥ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
 - ⑦ IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.
 - ⑧ 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



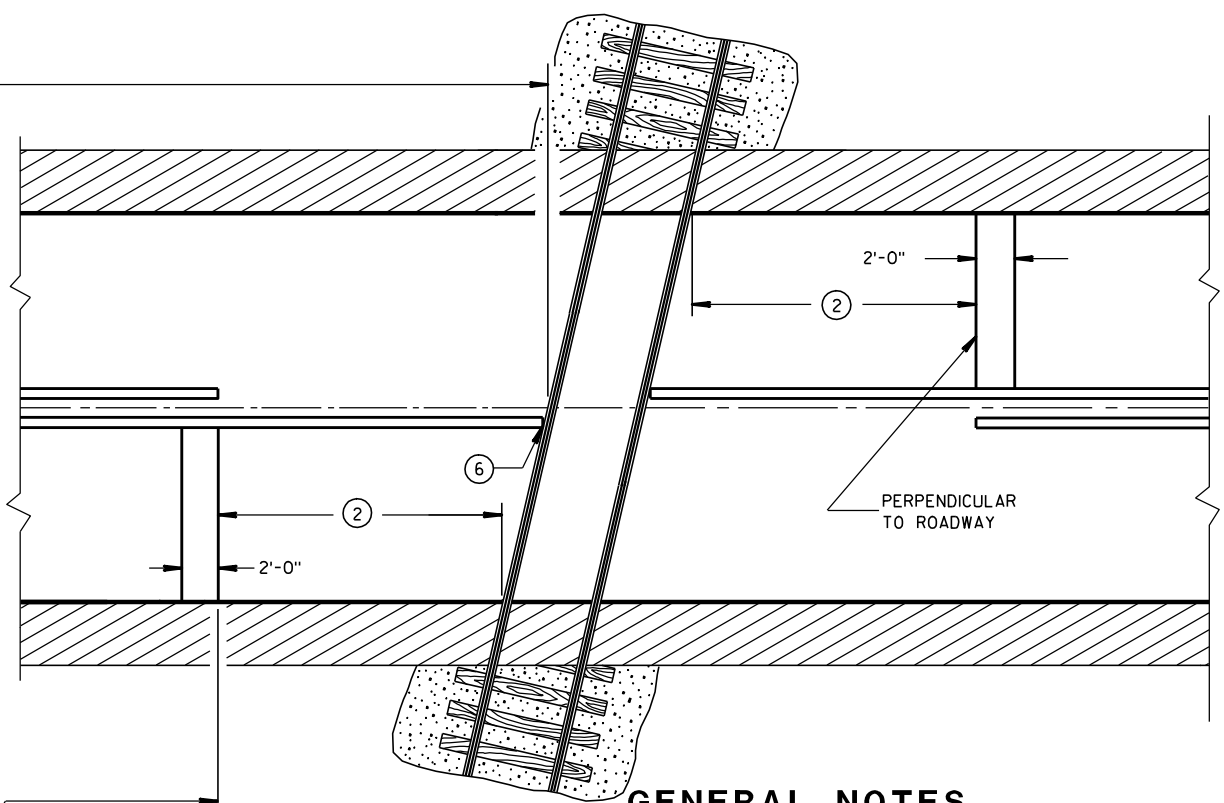
PREFERRED PAVEMENT MARKING



ALTERNATE PAVEMENT MARKING

Posted Speed (M.P.H.)	Dimension Range (Feet)
25	150*- 250
30	200*- 300
35	250*- 450
40	300*- 500
45	400*- 650
50	550*- 800
55	750*- 1000
60	1000*- 1250
65	1000*- 1250

* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSE PROXIMITY OF DRIVEWAYS, BRIDGES, SIDEROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.



GENERAL NOTES

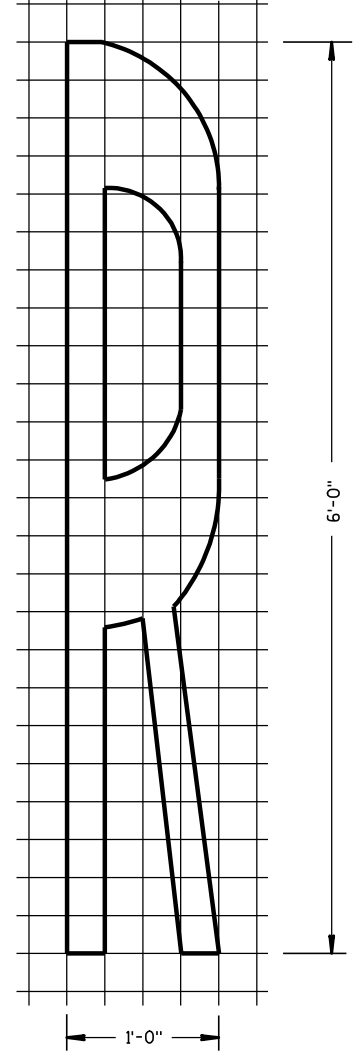
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

A THREE-LANE ROADWAY SHOULD BE MARKED WITH A CENTERLINE FOR TWO-LANE APPROACH OPERATION ON THE APPROACH TO A CROSSING.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE. ALL LETTERS AND SYMBOLS SHALL BE IN CONFORMANCE WITH THE "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" (ADOPTED BY THE FEDERAL HIGHWAY ADMINISTRATION).

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

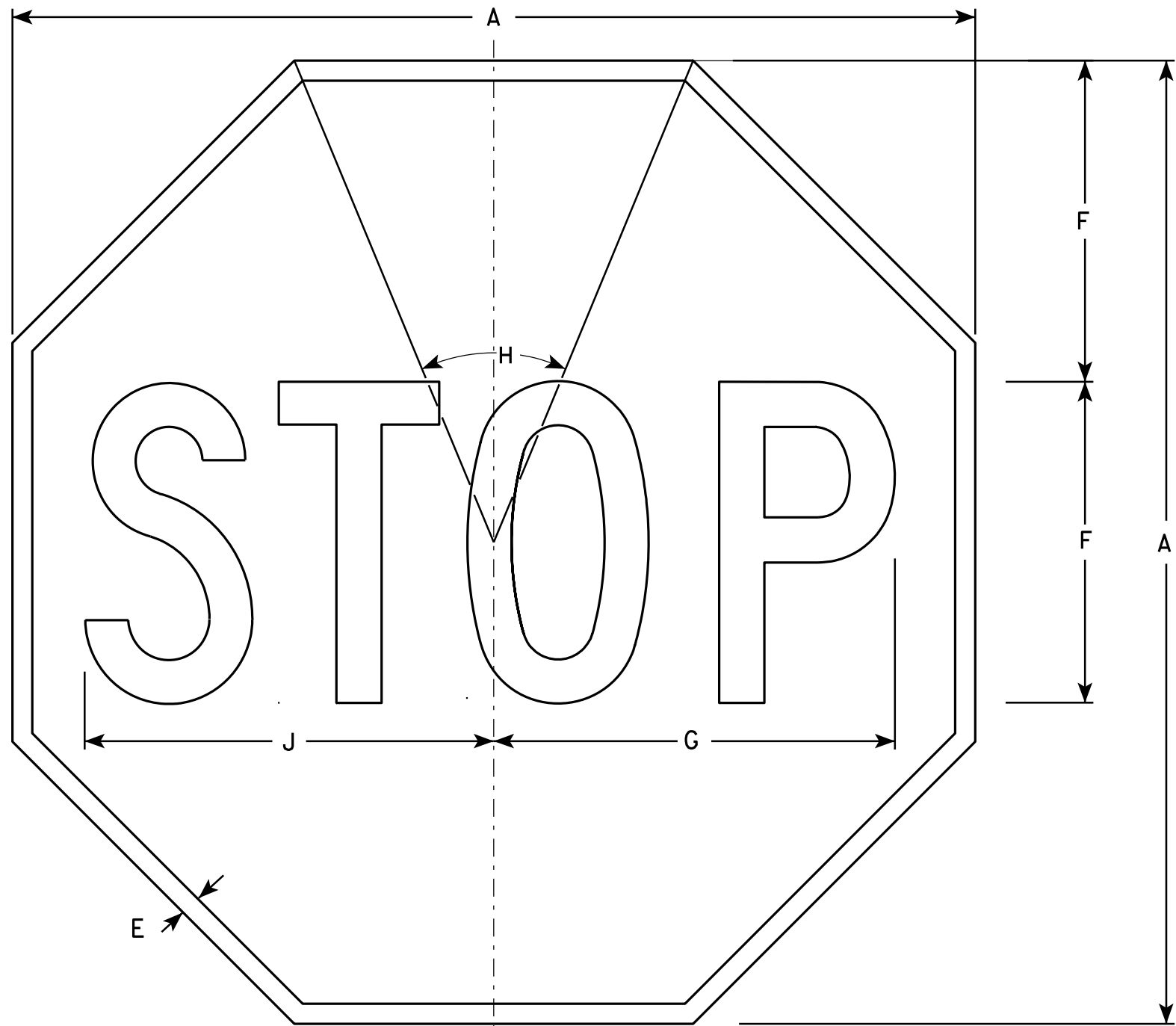
- 1 A PORTION OF THE PAVEMENT MARKING SYMBOL SHOULD BE DIRECTLY OPPOSITE THE ADVANCE WARNING SIGN (W10-1).
- 2 MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNALS, GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.
- 3 REFLECTIVE WHITE.
- 4 REFLECTIVE YELLOW 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.
- 5 TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 6 FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.



**SIGNING AND PAVEMENT MARKING
DETAILS FOR RAILROAD-HIGHWAY
GRADE CROSSINGS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
1-9-2012 /S/ Thomas N. Notbohm
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



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

R1-1

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				3/8	8	10	45°		10 1/4																	3.31
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 12/03/10 PLATE NO. R1-1.12

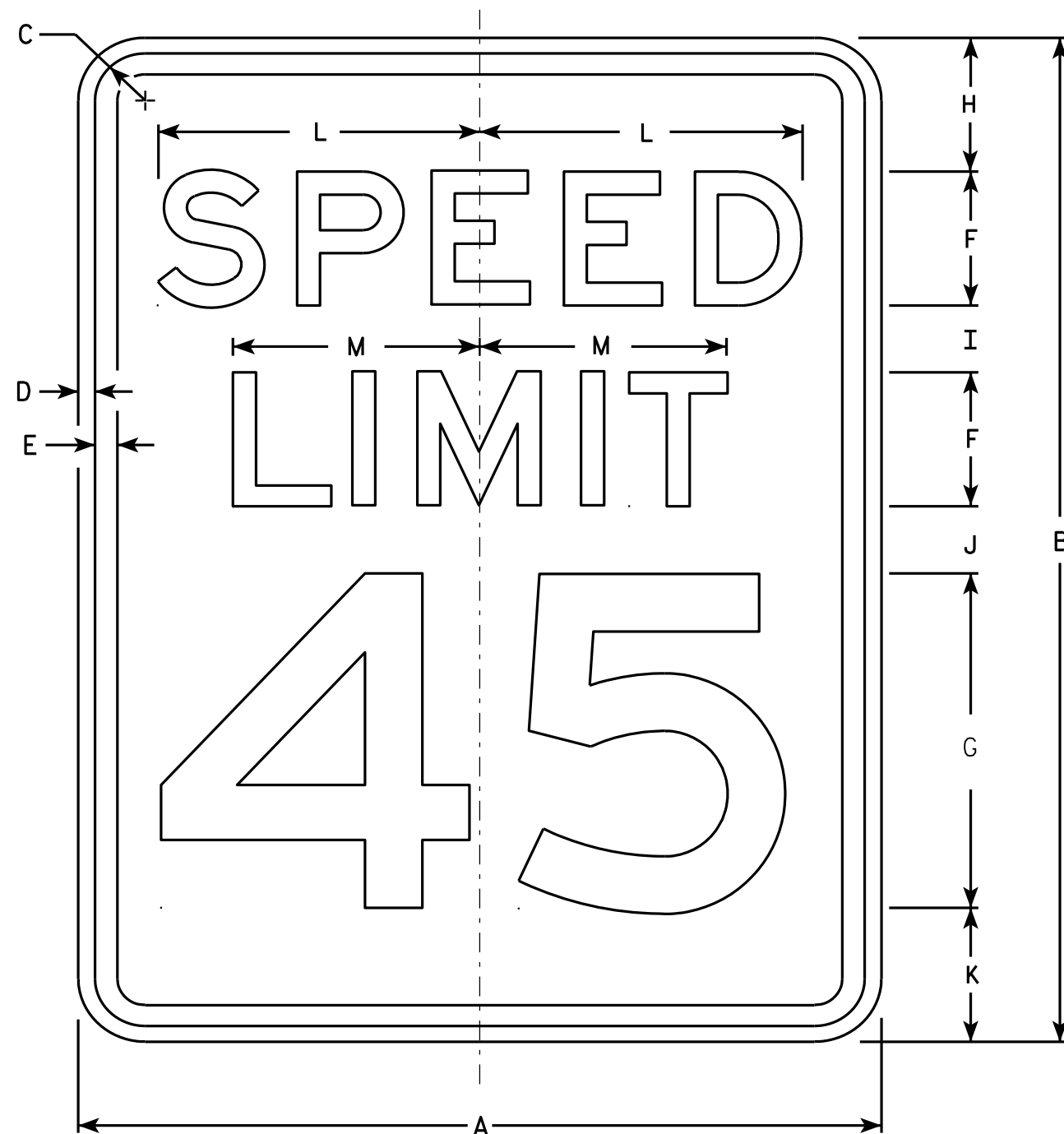
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



R2-1

NOTES

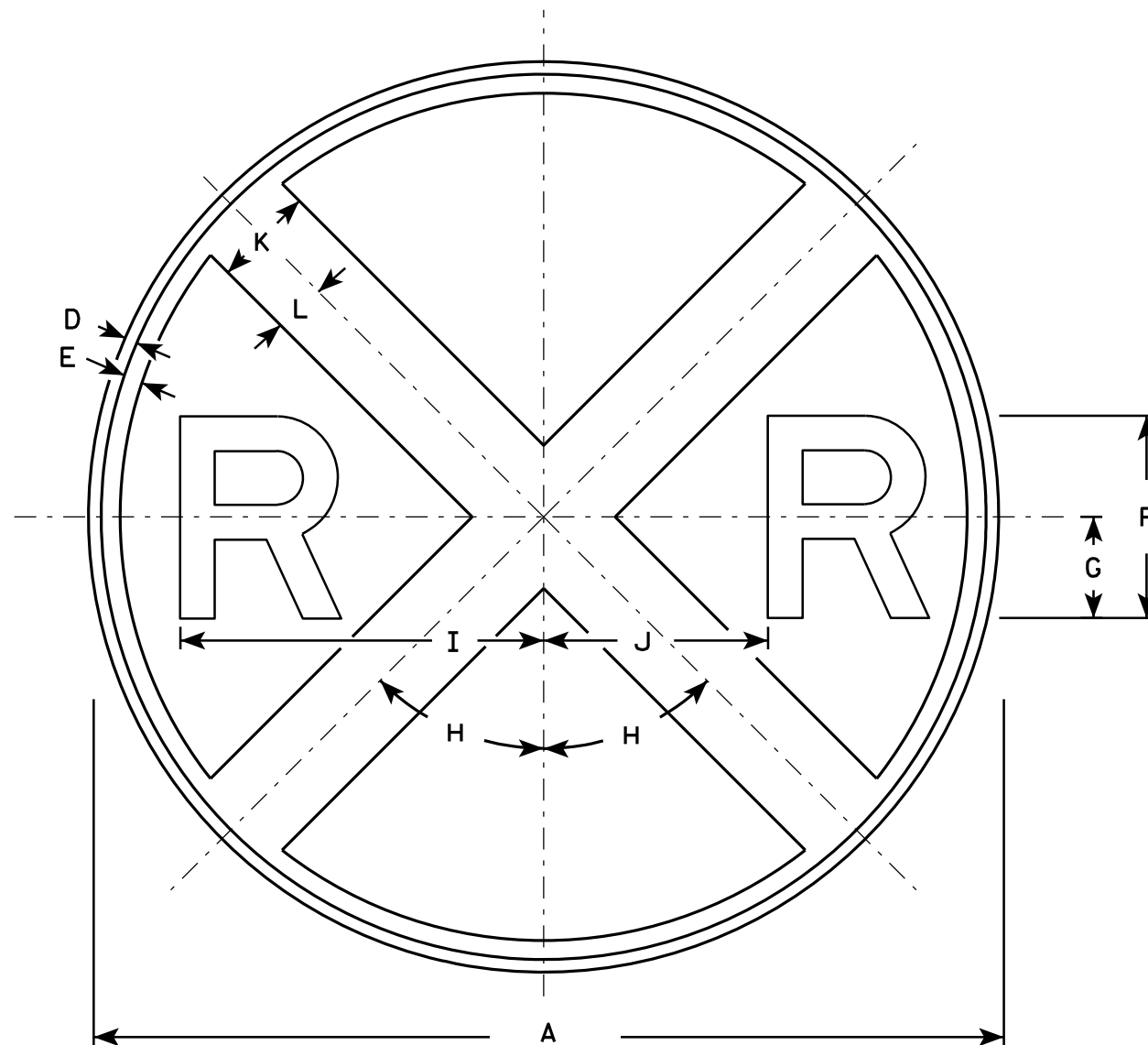
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
For State Traffic Engineer
DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: HWY: COUNTY: SHEET NO: E



W10-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Message Series - E

7

7

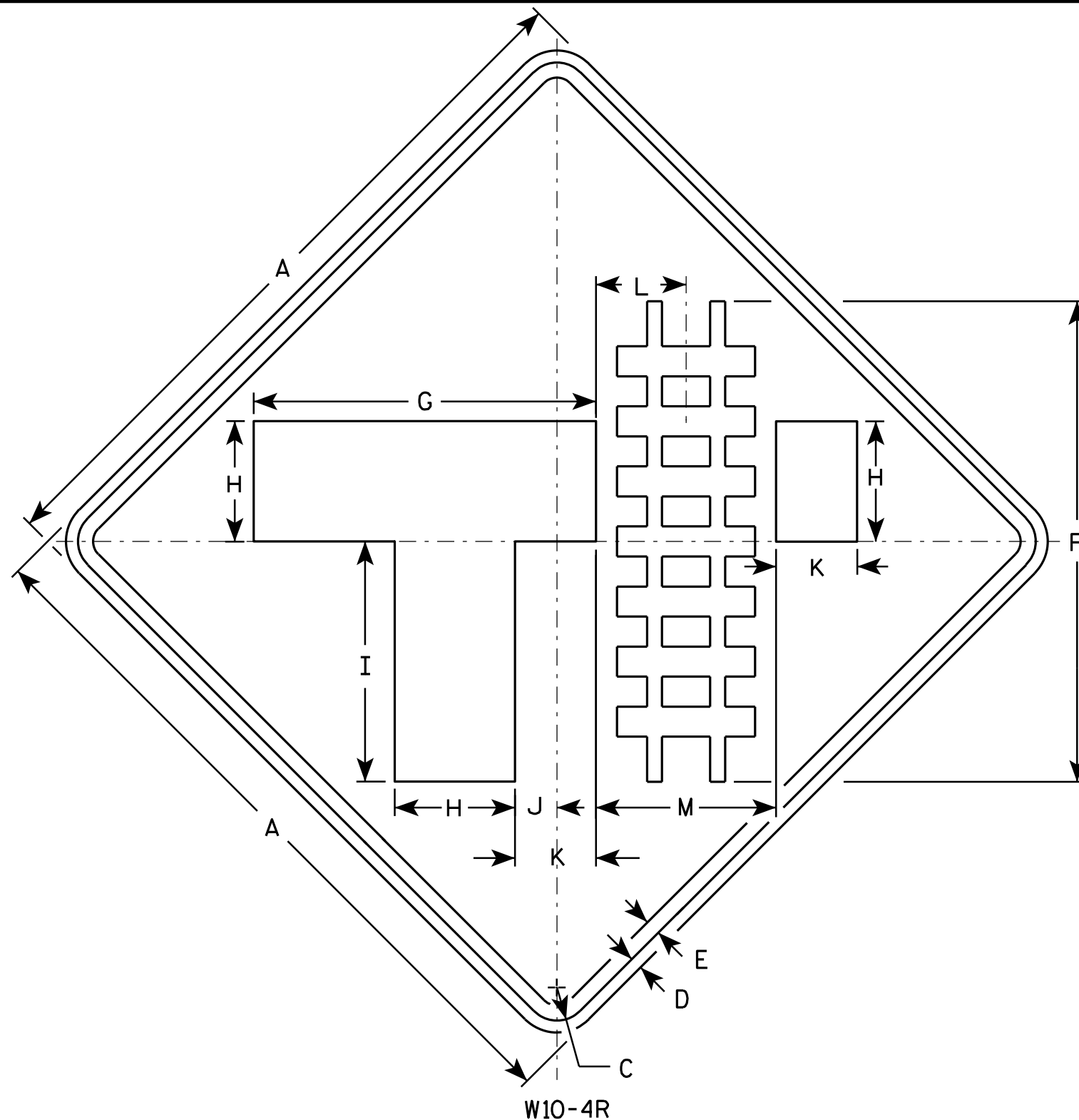
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30			$\frac{3}{8}$	$\frac{5}{8}$	7	$3\frac{1}{2}$	45°	$12\frac{3}{8}$	$7\frac{1}{8}$	3	$1\frac{1}{2}$															4.91
2S	36			$\frac{5}{8}$	$\frac{3}{4}$	8	4	45°	$14\frac{3}{8}$	$8\frac{5}{8}$	4	2															7.07
2M	36			$\frac{5}{8}$	$\frac{3}{4}$	8	4	45°	$14\frac{3}{8}$	$8\frac{5}{8}$	4	2															7.07
3																											
4	48			$\frac{3}{4}$	$1\frac{1}{4}$	10	5	45°	$18\frac{3}{8}$	$11\frac{5}{8}$	5	$2\frac{1}{2}$															12.57
5																											

STANDARD SIGN
W10-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 3/15/11 PLATE NO. W10-1.7

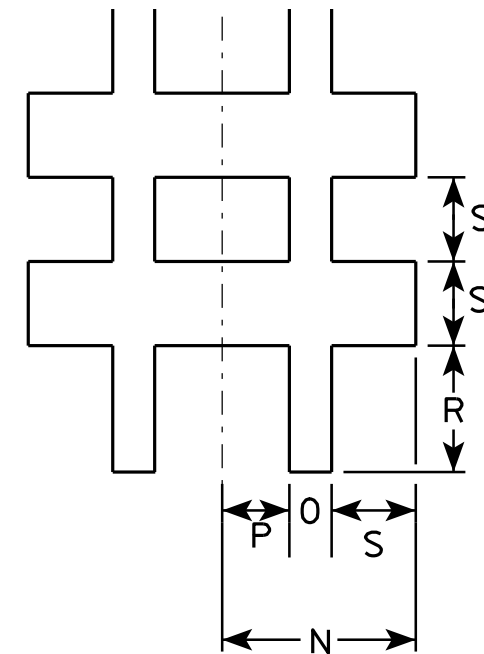
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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W10-4R

NOTES

1. Sign is Type II - Type H 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. W10-4L same as W10-4R except symbol is reversed.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	20	14 1/4	5	10	1 3/4	3 3/8	3 3/4	7 1/2	2 7/8	5/8	1		1 7/8	1 1/4								6.25
2	36		1 5/8	5/8	3/4	24	17	6	12	2	4	4 1/2	9	3 3/8	3/4	1 1/8		2 1/4	1 1/2								9.0
2	36		1 5/8	5/8	3/4	24	17	6	12	2	4	4 1/2	9	3 3/8	3/4	1 1/8		2 1/4	1 1/2								9.0
3	36		1 5/8	5/8	3/4	24	17	6	12	2	4	4 1/2	9	3 3/8	3/4	1 1/8		2 1/4	1 1/2								9.0
4	48		2 1/4	3/4	1	32	22 5/8	8	16	2 5/8	5 3/8	6	12	4 1/2	1	1 1/2		3	2								16.0
5																											

PROJECT NO:

STANDARD SIGN W10-4

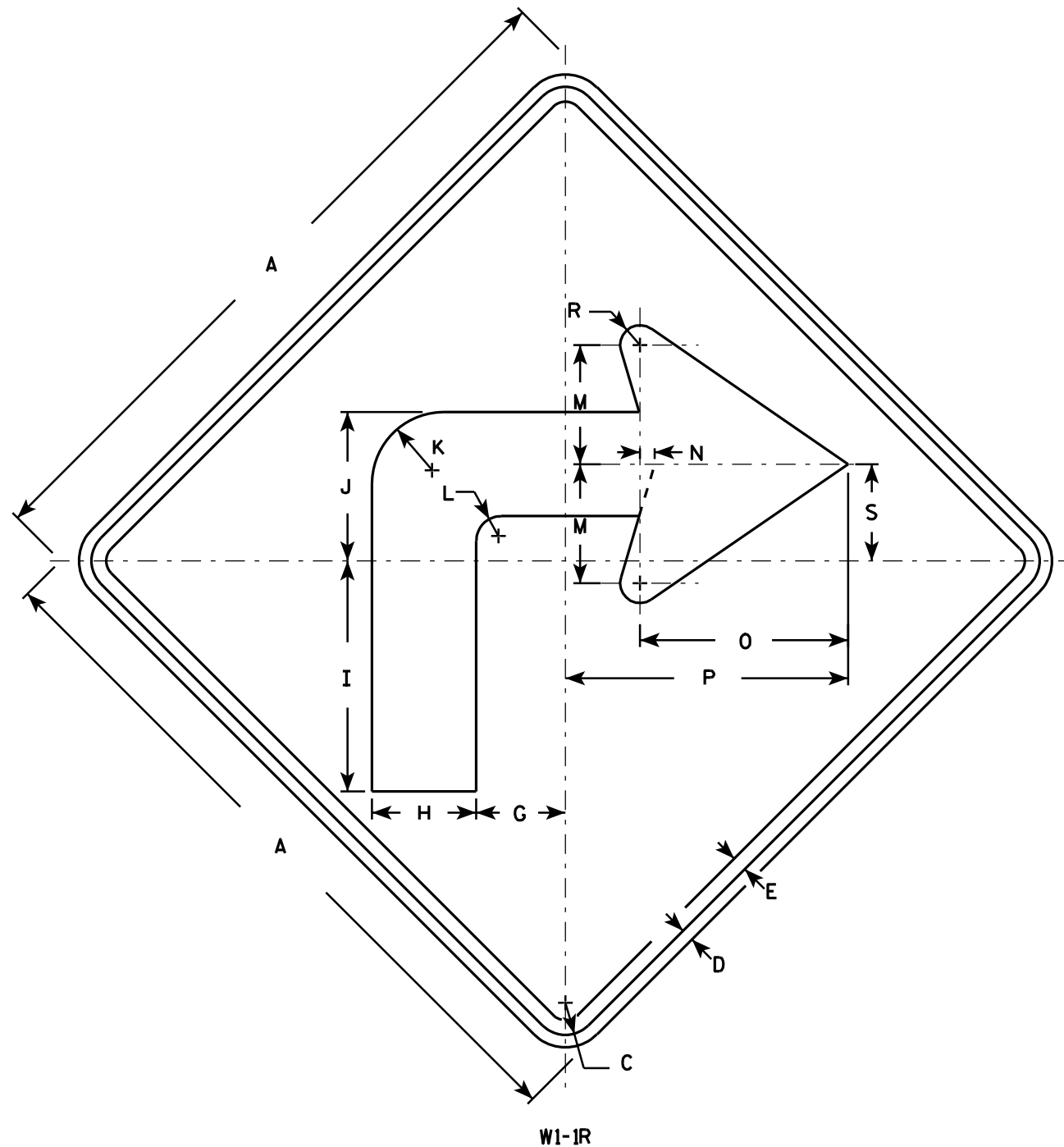
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W10-4.8

SHEET NO:

E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-1L is the same as W1-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		3	3 1/2	7 3/4	5	2 1/2	7/8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
2S	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
2M	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
3	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
4	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
5	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0

STANDARD SIGN

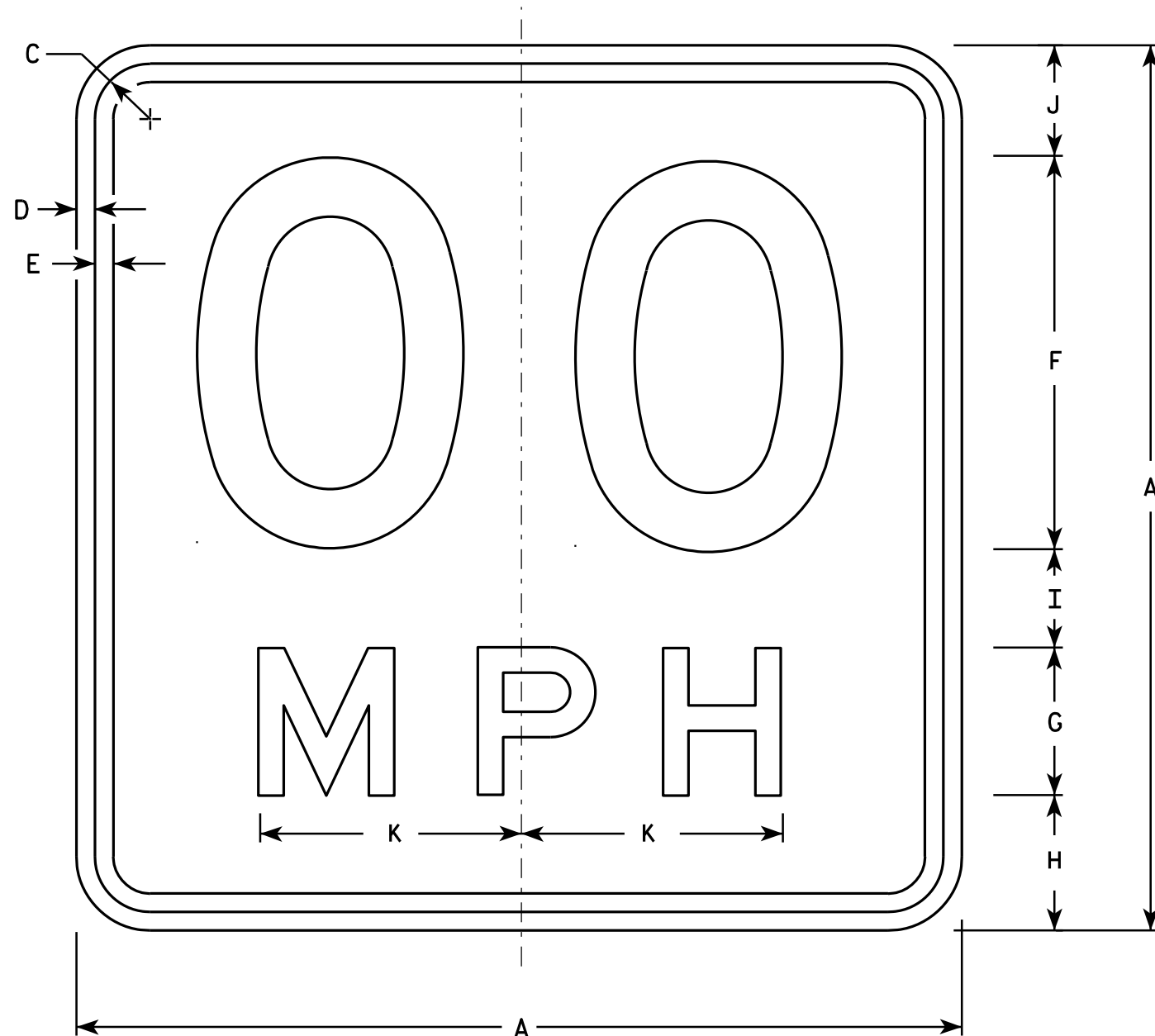
W1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-1.11

PROJECT NO: HWY: COUNTY: SHEET NO: E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
Line 2 is Series E

W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

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	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN

W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO:

HWY:

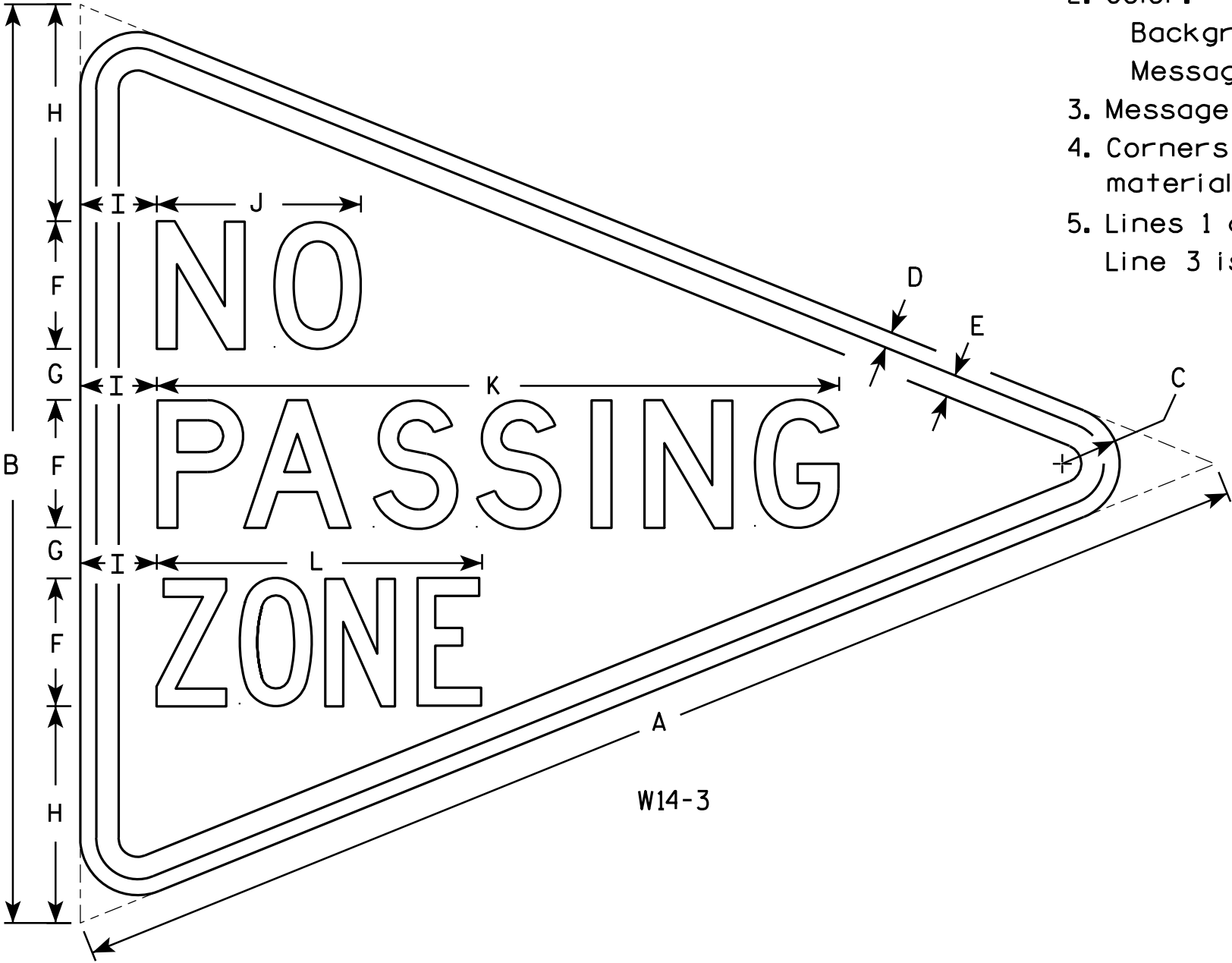
COUNTY:

SHEET NO:

E

NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Yellow
Message - Black
- 3. Message Series - See note 5
- 4. Corners and borders shall be rounded on all base materials for this sign.
- 5. Lines 1 and 2 are Series D.
Line 3 is series C.



W14-3

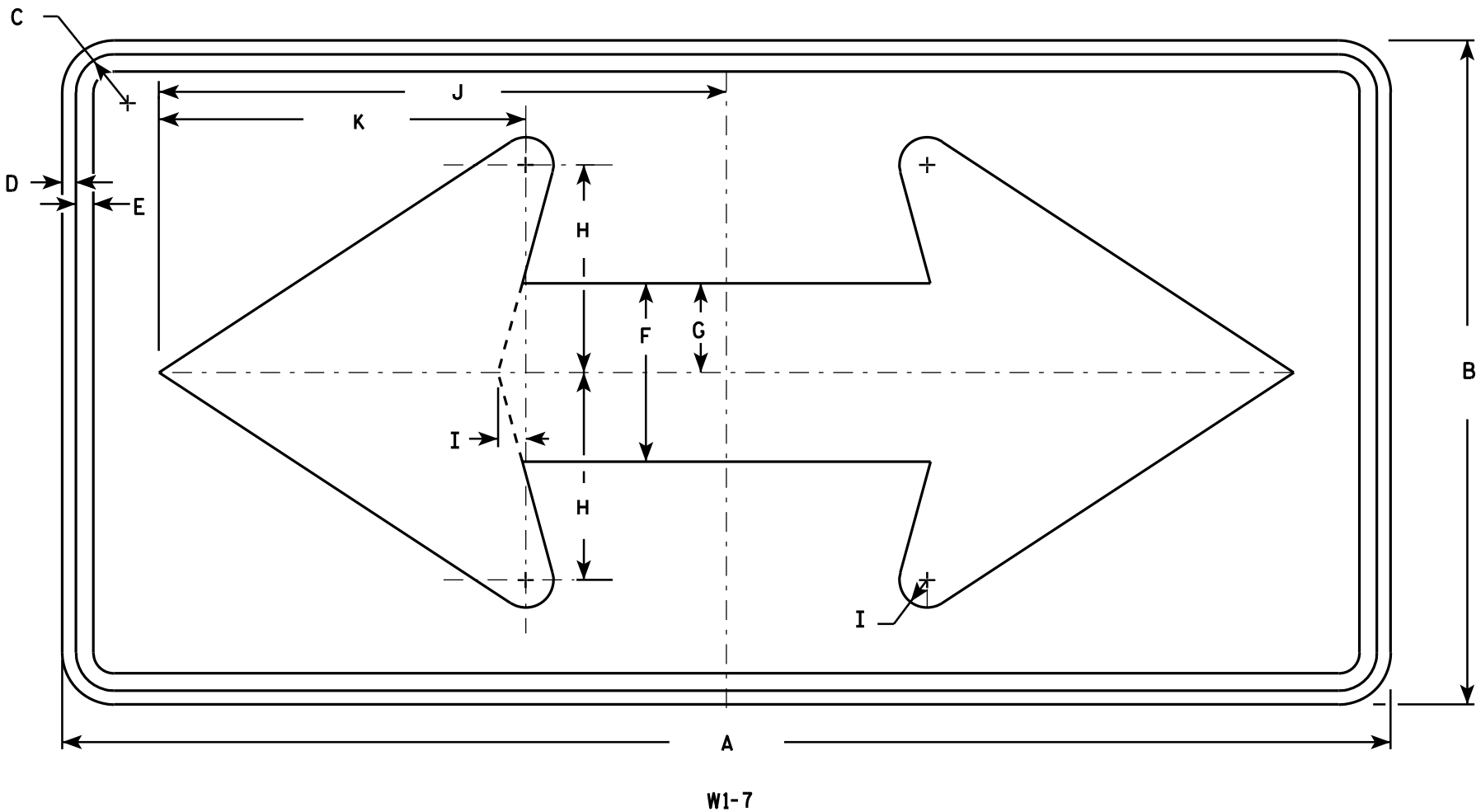
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															10.7
4																											
5																											

STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

STANDARD SIGN

W1 - 7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

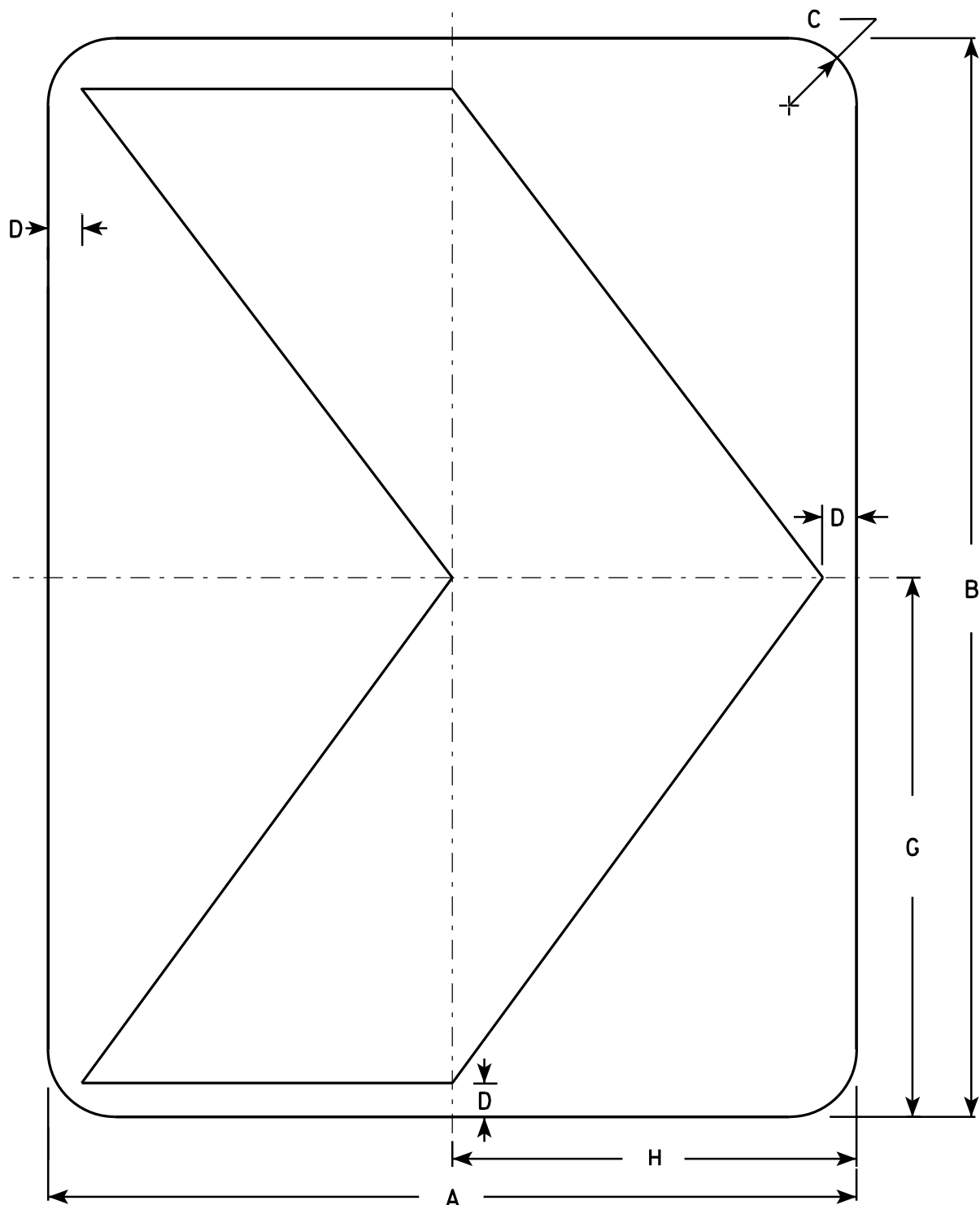
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/2	1/2			9	6																			1.5
2S	18	24	1 1/2	3/4			12	9																			3.0
2M	18	24	1 1/2	3/4			12	9																			3.0
3	24	30	1 1/2	1			15	12																			5.0
4	30	36	1 7/8	1 1/4			18	15																			7.5
5	36	48	2 1/4	1 1/2			24	18																			12.0

STANDARD SIGN

W1-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-8.6

PROJECT NO:

SHEET NO:

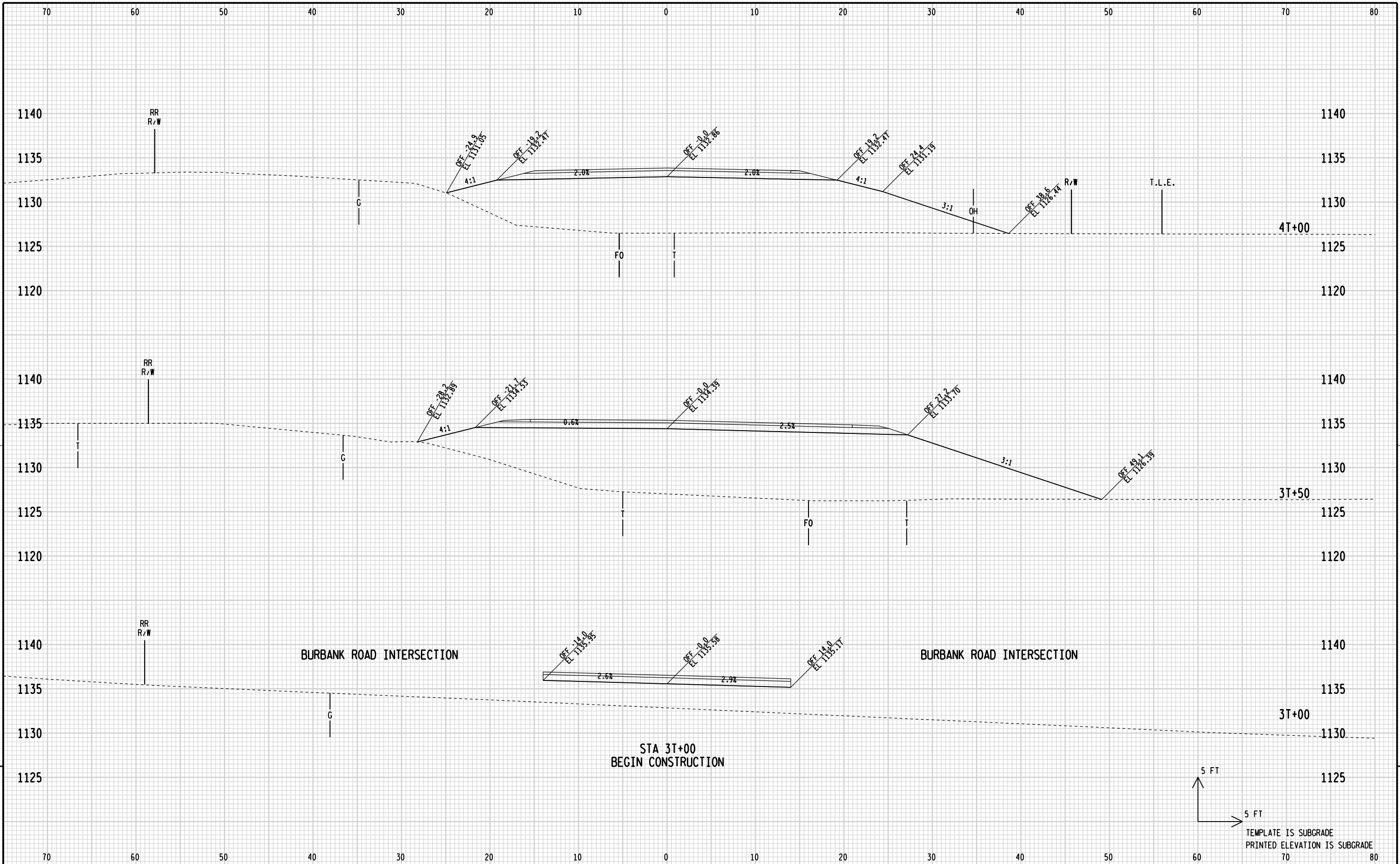
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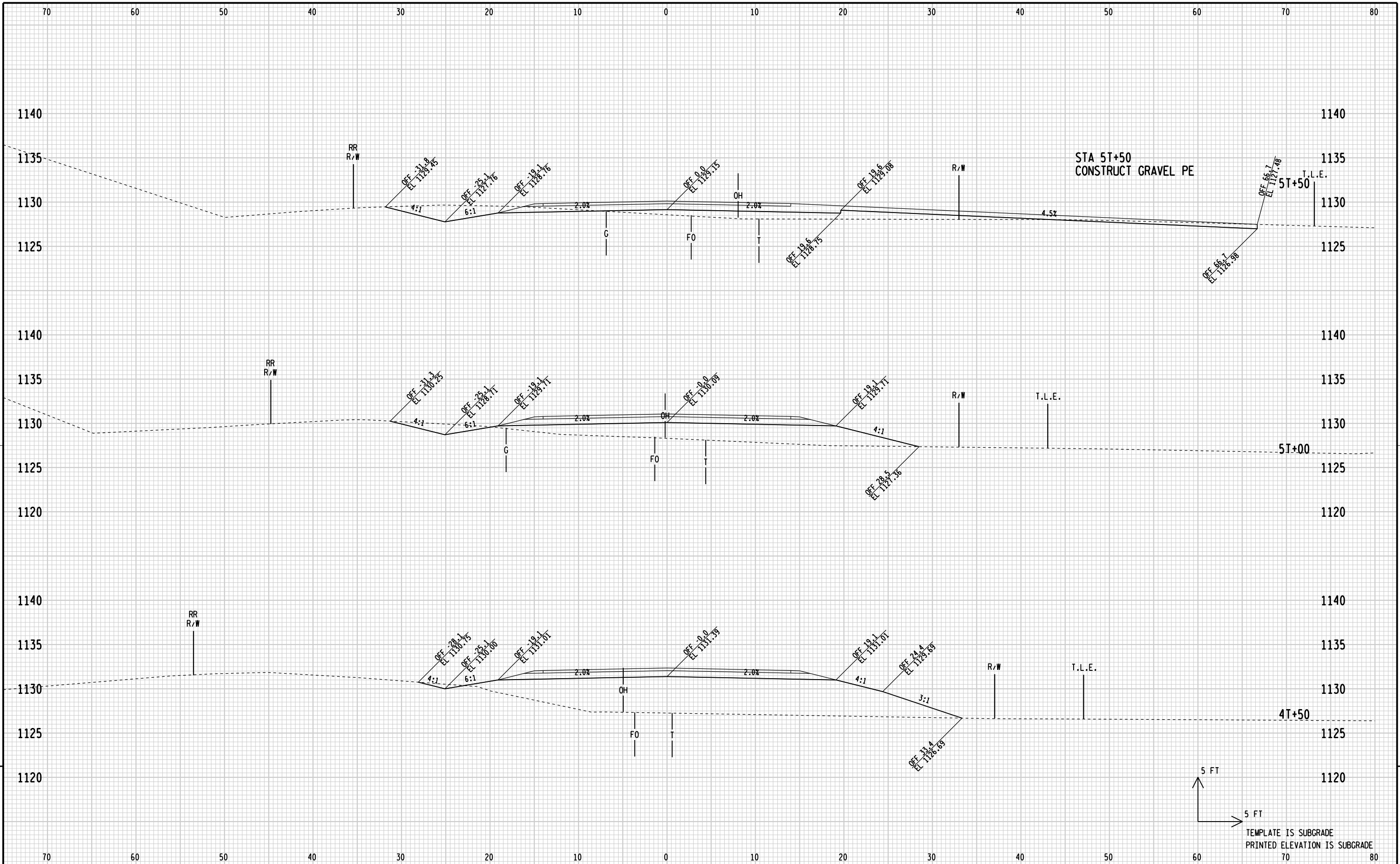
STATION	Real Station	Distance	AREA (SF)						Incremental Vol (CY) (Unadjusted)						Cumulative Vol (CY)								Mass Ordinate
			Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Expanded		Expanded Marsh	Expanded	Expanded EBS	Reduced Marsh	Reduced EBS		
															Cut 1.00	Fill 1.25	Backfill 1.50	Rock 1.10	Backfill 1.30	in Fill 0.60	In Fill 0.80		
																						Note 1	
10+00.00	1000		19.14	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10+50.00	1050	50	39.83	0	1.13	0	0	0	55	0	1	0	0	0	55	1	0	0	0	0	0	53	
11+00.00	1100	50	6.29	0	4.44	0	0	0	43	0	5	0	0	0	97	8	0	0	0	0	0	90	
11+50.00	1150	50	1.51	0	39.22	0	0	0	7	0	40	0	0	0	105	58	0	0	0	0	0	46	
12+00.00	1200	50	1.54	0	105.67	0	0	0	3	0	134	0	0	0	107	226	0	0	0	0	0	-119	
12+16.82	1217	17	1.11	0	143.40	0	0	0	1	0	78	0	0	0	108	324	0	0	0	0	0	-216	
12+50.00	1250	33	0.00	0	200.44	0	0	0	1	0	210	0	0	0	109	587	0	0	0	0	0	-478	
13+00.00	1300	50	0.00	0	284.46	0	0	0	0	0	449	0	0	0	109	1148	0	0	0	0	0	-1039	
13+50.00	1350	50	0.00	0	336.63	0	0	0	0	0	575	0	0	0	109	1867	0	0	0	0	0	-1758	
14+00.00	1400	50	0.00	0	508.53	0	0	0	0	0	783	0	0	0	109	2845	0	0	0	0	0	-2736	
14+27.82	1428	28	7.88	0	519.22	0	0	0	4	0	533	0	0	0	113	3511	0	0	0	0	0	-3398	
14+50.00	1450	22	0.00	0	533.19	0	0	0	3	0	429	0	0	0	116	4047	0	0	0	0	0	-3931	
15+00.00	1500	50	0.00	0	380.63	0	0	0	0	0	846	0	0	0	116	5105	0	0	0	0	0	-4989	
15+50.00	1550	50	2.92	0	124.89	0	0	0	3	0	468	0	0	0	119	5690	0	0	0	0	0	-5571	
16+00.00	1600	50	19.53	0	0.38	0	0	0	21	0	116	0	0	0	140	5835	0	0	0	0	0	-5695	
16+50.00	1650	50	0.00	0	181.21	0	0	0	18	0	168	0	0	0	158	6045	0	0	0	0	0	-5887	
17+00.00	1700	50	0.00	0	200.38	0	0	0	0	0	353	0	0	0	158	6487	0	0	0	0	0	-6329	
17+50.00	1750	50	0.00	0	321.94	0	0	0	0	0	484	0	0	0	158	7091	0	0	0	0	0	-6933	
18+00.00	1800	50	0.05	0	256.20	0	0	0	0	0	535	0	0	0	158	7760	0	0	0	0	0	-7602	
18+50.00	1850	50	0.00	0	206.43	0	0	0	0	0	428	0	0	0	158	8296	0	0	0	0	0	-8138	
19+00.00	1900	50	0.00	0	145.87	0	0	0	0	0	326	0	0	0	158	8703	0	0	0	0	0	-8546	
19+50.00	1950	50	0.00	0	71.93	0	0	0	0	0	202	0	0	0	158	8956	0	0	0	0	0	-8798	
20+00.00	2000	50	1.74	0	27.80	0	0	0	2	0	92	0	0	0	159	9071	0	0	0	0	0	-8912	
20+50.00	2050	50	11.79	0	2.00	0	0	0	13	0	28	0	0	0	172	9105	0	0	0	0	0	-8934	
21+00.00	2100	50	35.33	0	0.00	0	0	0	44	0	2	0	0	0	216	9108	0	0	0	0	0	-8892	
21+50.00	2150	50	50.83	0	0.00	0	0	0	80	0	0	0	0	0	295	9108	0	0	0	0	0	-8812	
22+00.00	2200	50	14.53	0	0.00	0	0	0	61	0	0	0	0	0	356	9108	0	0	0	0	0	-8752	
22+10.75	2211	11	0.00	0	0.00	0	0	0	3	0	0	0	0	0	359	9108	0	0	0	0	0	-8750	

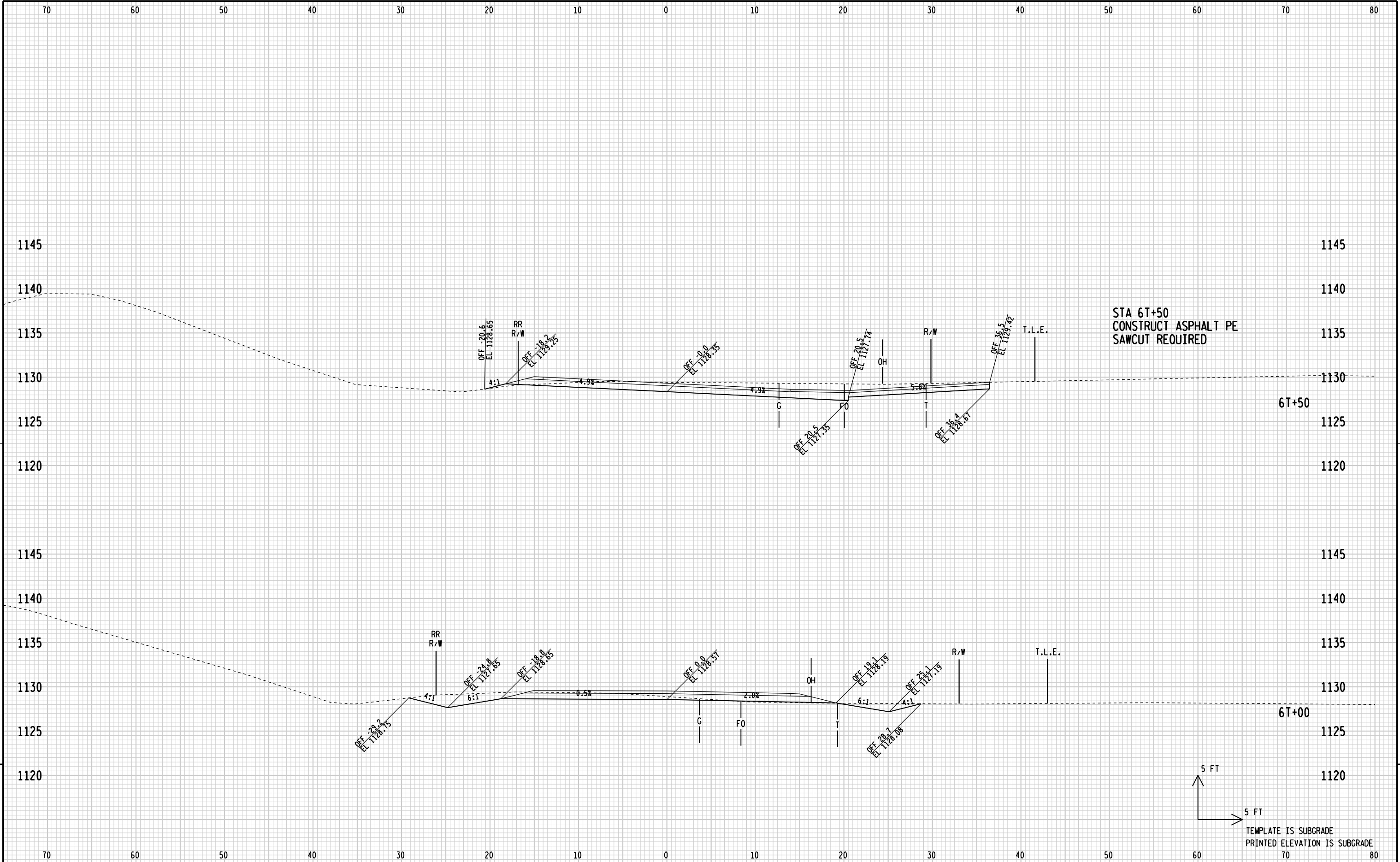
Old Hwy 18/Burbank Rd Sub-Totals 350 0 7,280 0 0 0

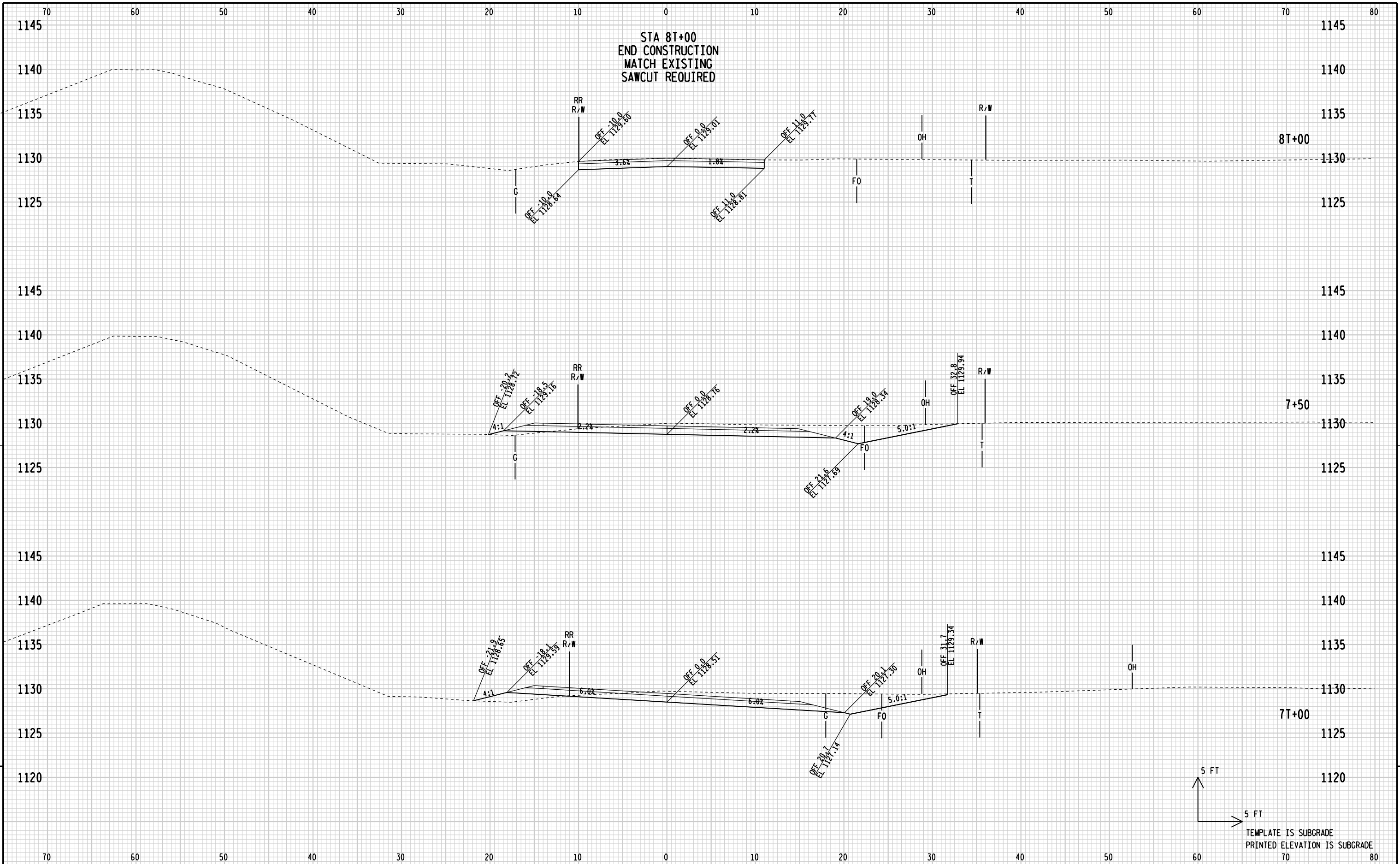
STATION	Real Station	Distance	AREA (SF)						Incremental Vol (CY) (Unadjusted)						Cumulative Vol (CY)								Mass Ordinate
			Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Expanded		Expanded Marsh	Expanded	Expanded EBS	Reduced Marsh	Reduced EBS		
															Cut	Fill	Backfill	Rock	Backfill	in Fill	In Fill		
															1.00	1.25	1.50	1.10	1.30	0.60	0.80		
Note 1	Note 2	Note 3	Note 3	Note 3	Note 3	Note 1	Note 4	Note 5	Note 6	Note 7	Note 8												
3+00.00	300		0.00	0	76.09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3+50.00	350	50	0.00	0	423.97	0	0	0	0	0	463	0	0	0	0	579	0	0	0	0	0	-579	
4+00.00	400	50	0.00	0	301.20	0	0	0	0	0	671	0	0	0	0	1418	0	0	0	0	0	-1418	
4+50.00	450	50	1.35	0	173.18	0	0	0	1	0	439	0	0	0	1	1967	0	0	0	0	0	-1966	
5+00.00	500	50	7.00	0	71.06	0	0	0	8	0	226	0	0	0	9	2250	0	0	0	0	0	-2241	
5+50.00	550	50	25.79	0	29.17	0	0	0	30	0	93	0	0	0	39	2366	0	0	0	0	0	-2326	
6+00.00	600	50	27.90	0	0.76	0	0	0	50	0	28	0	0	0	89	2400	0	0	0	0	0	-2311	
6+50.00	650	50	57.71	0	0.59	0	0	0	79	0	1	0	0	0	168	2402	0	0	0	0	0	-2234	
7+00.00	700	50	54.34	0	5.76	0	0	0	104	0	6	0	0	0	272	2409	0	0	0	0	0	-2137	
7+50.00	750	50	49.72	0	1.97	0	0	0	96	0	7	0	0	0	368	2418	0	0	0	0	0	-2050	
8+00.00	800	50	20.40	0	0.00	0	0	0	65	0	2	0	0	0	433	2421	0	0	0	0	0	-1987	
8+50.00	850	50	0.00	0	0.47	0	0	0	19	0	0	0	0	0	452	2421	0	0	0	0	0	-1969	
9+00.00	900	50	0.00	0	0.00	0	0	0	0	0	0	0	0	0	452	2422	0	0	0	0	0	-1970	

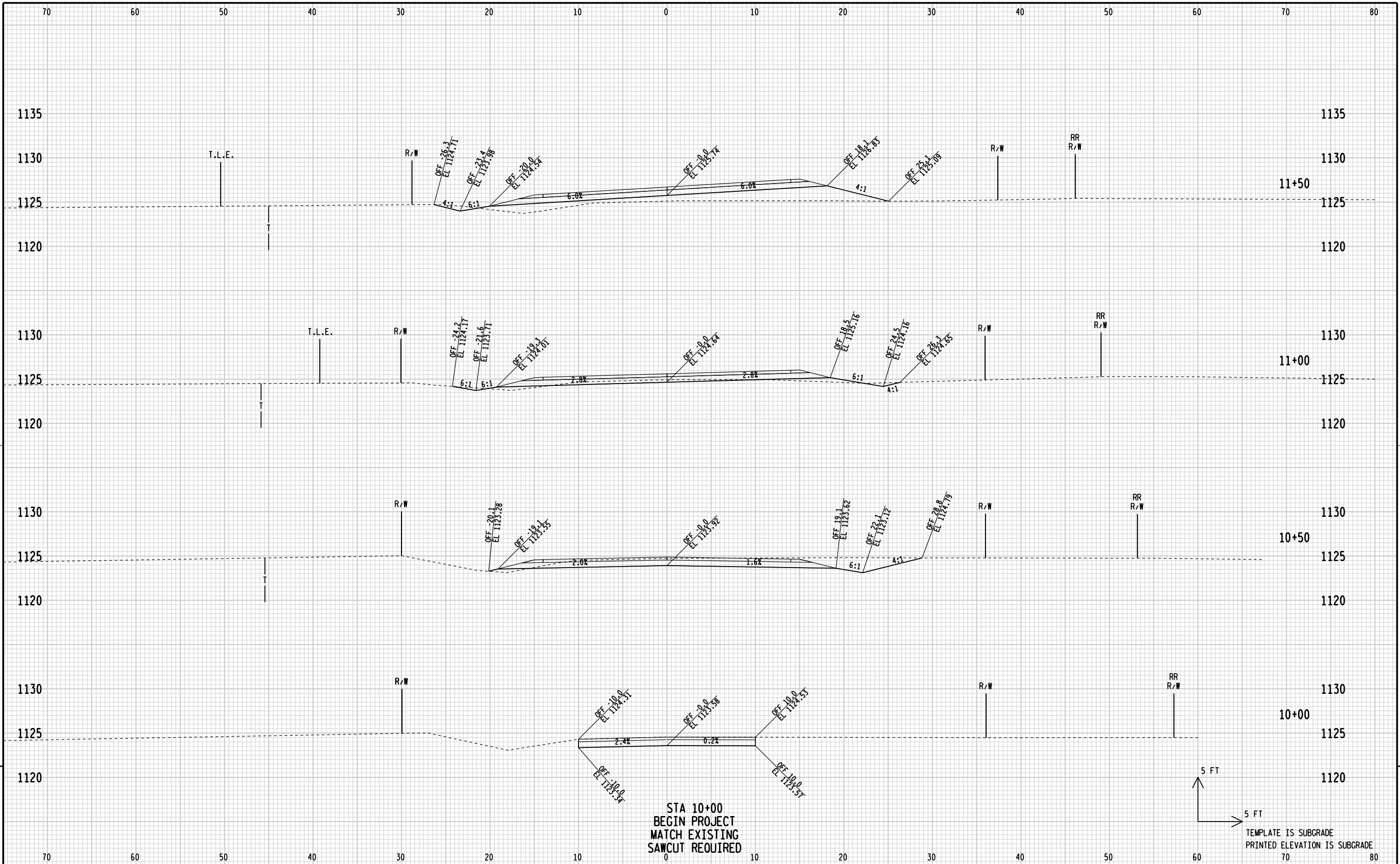
Old Hwy 18 East Sub-Totals 450 0 1,930 0 0 0







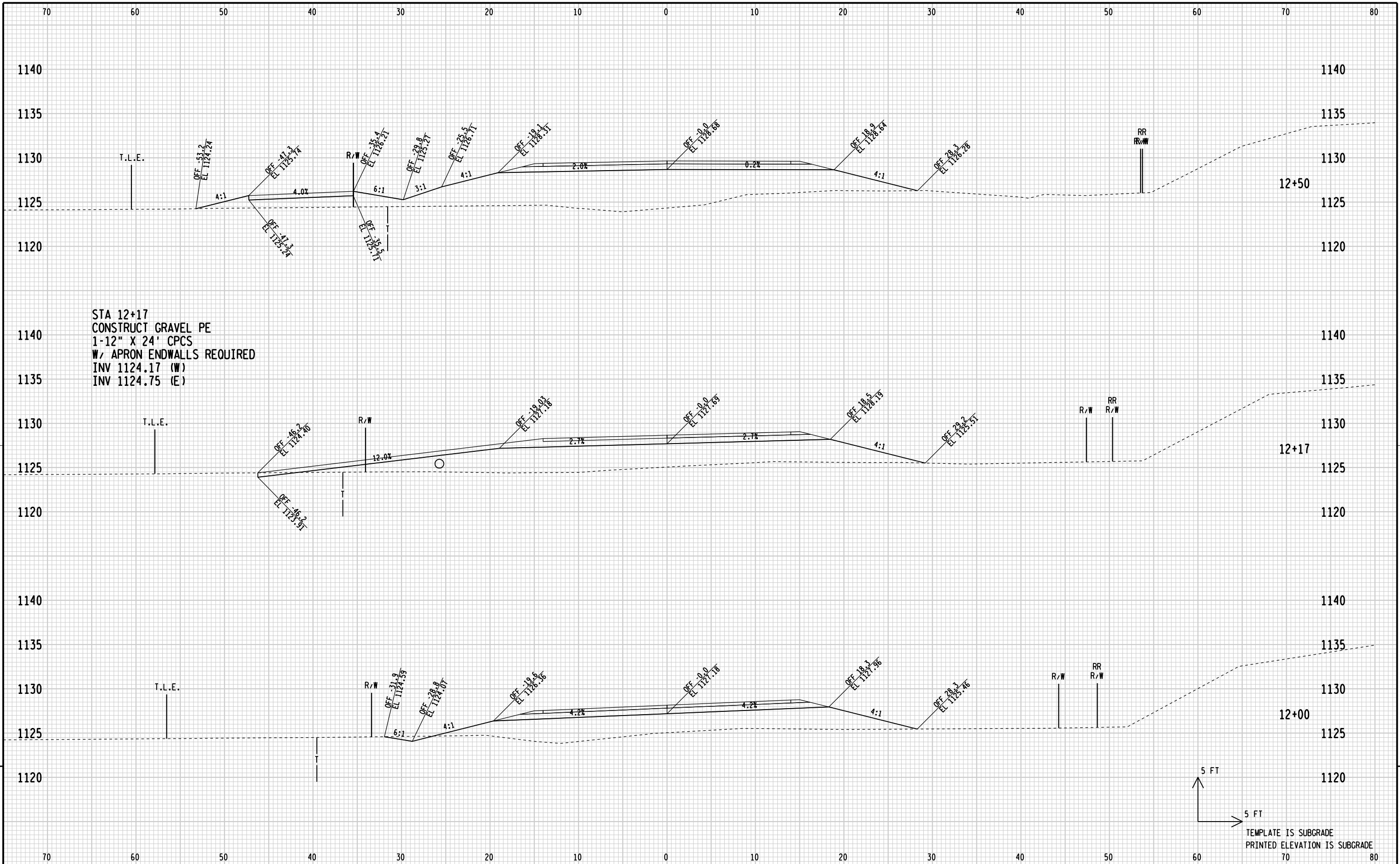




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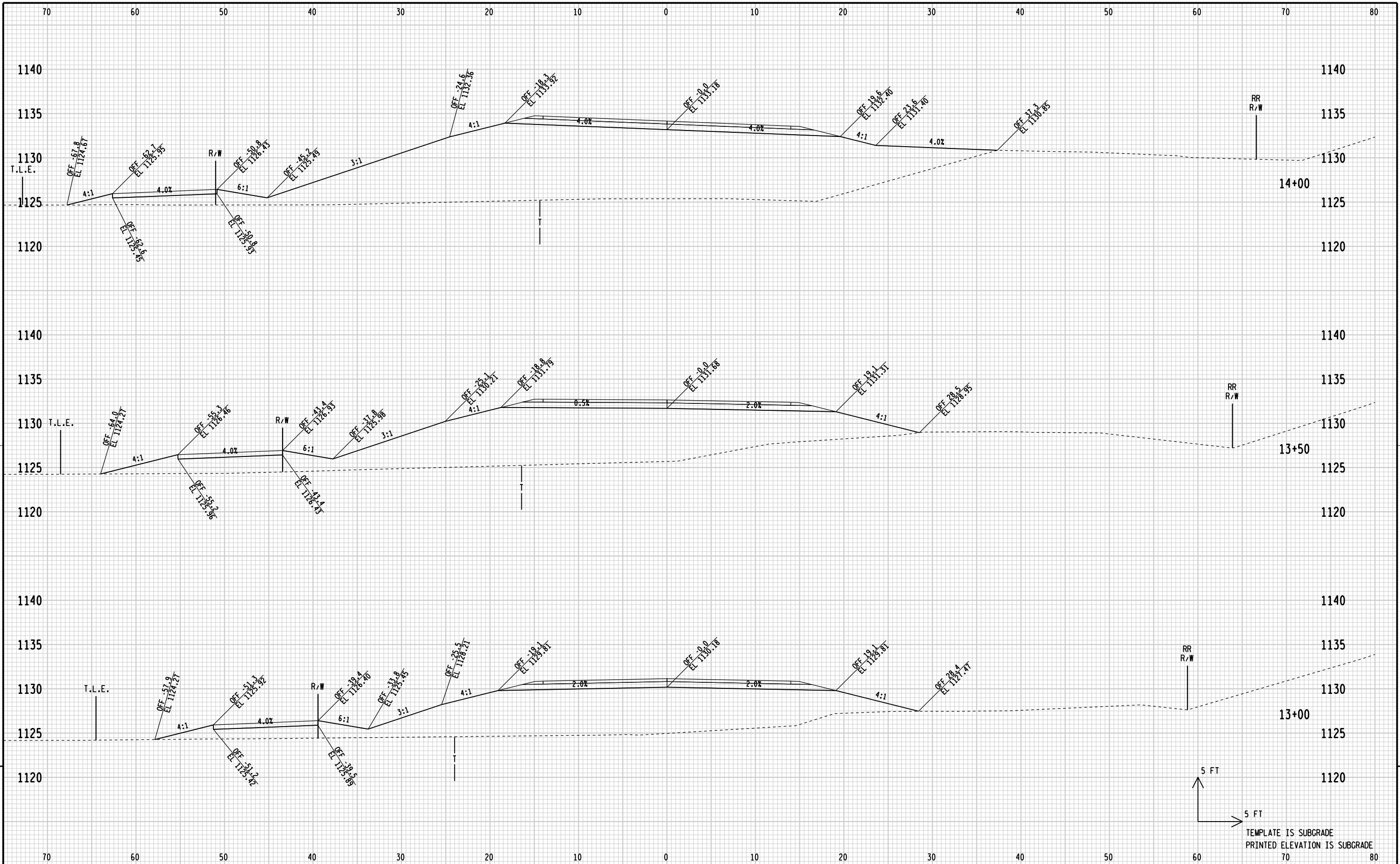
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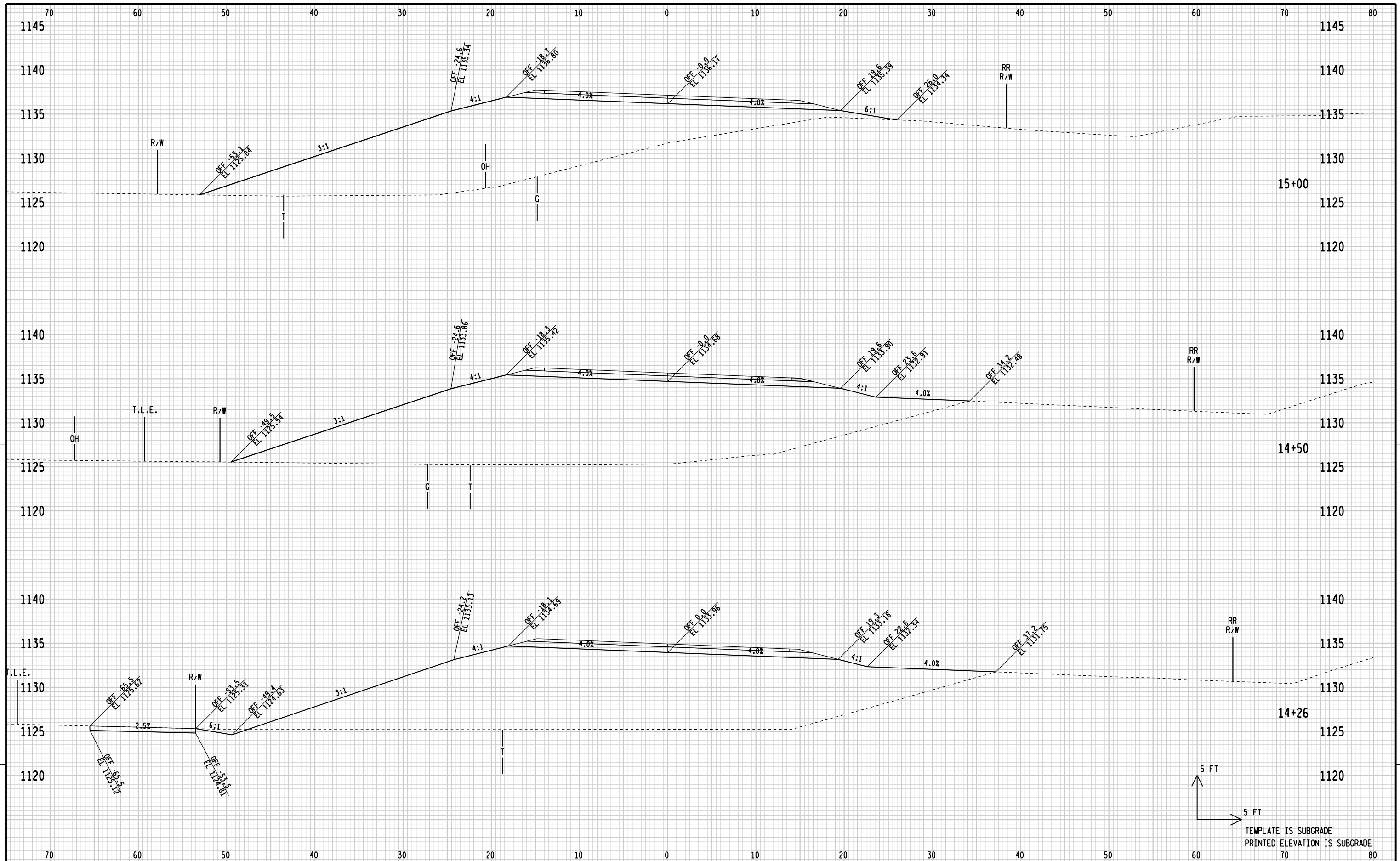
PROJECT NUMBER: 6808-01-70	HWY: OLD HWY 18	COUNTY: PORTAGE	CROSS SECTIONS: OLD HWY 18	SHEET	E
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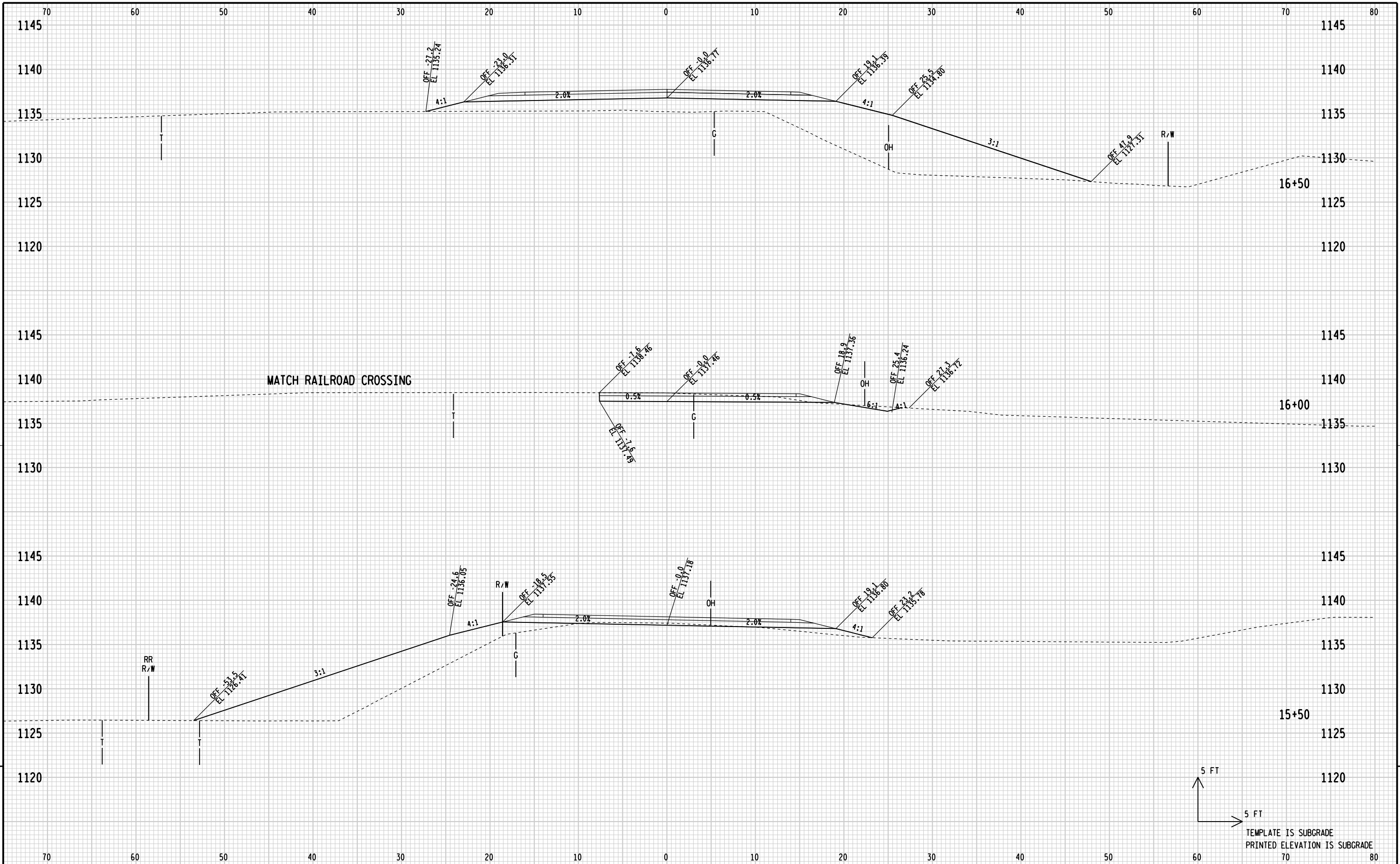


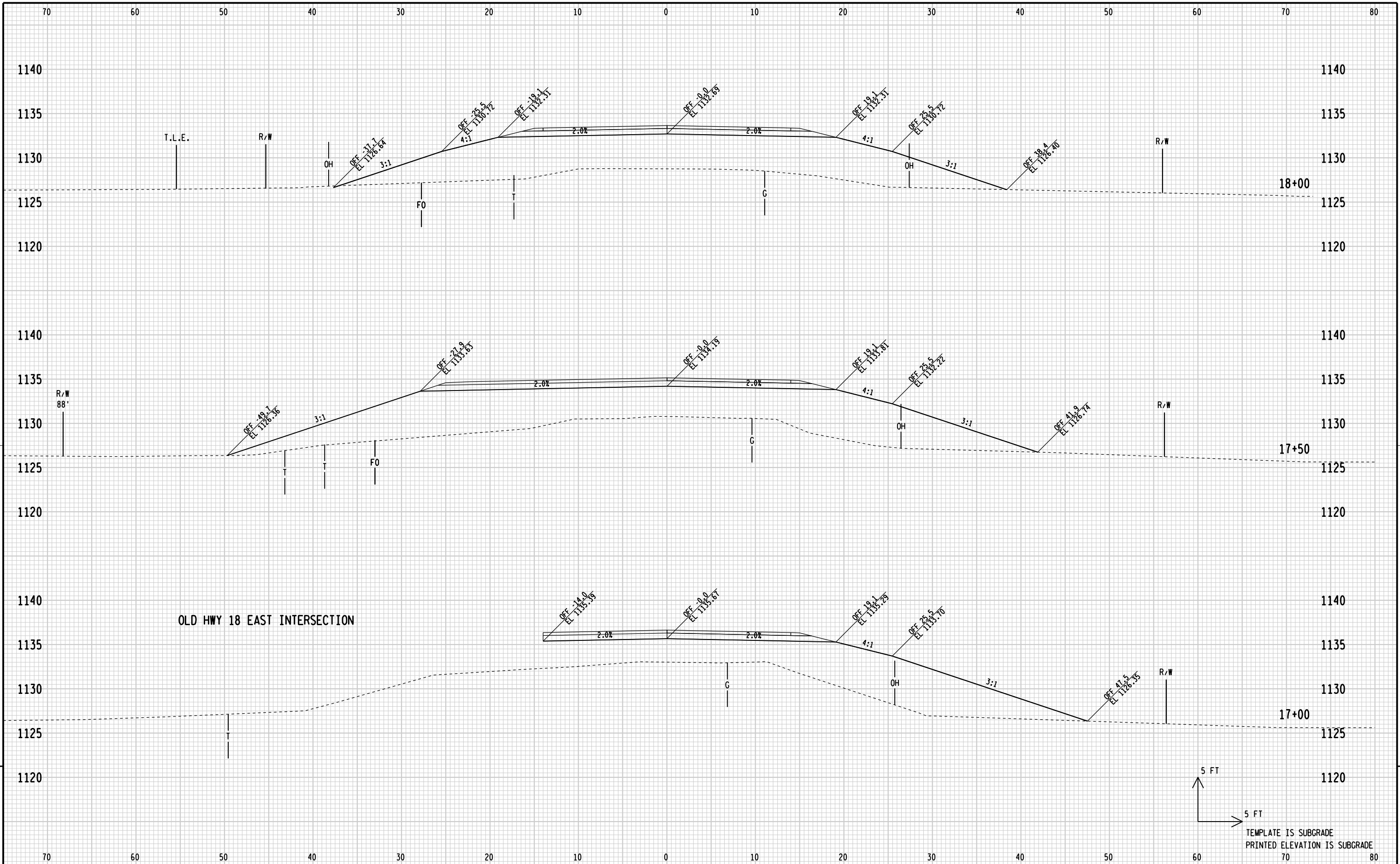
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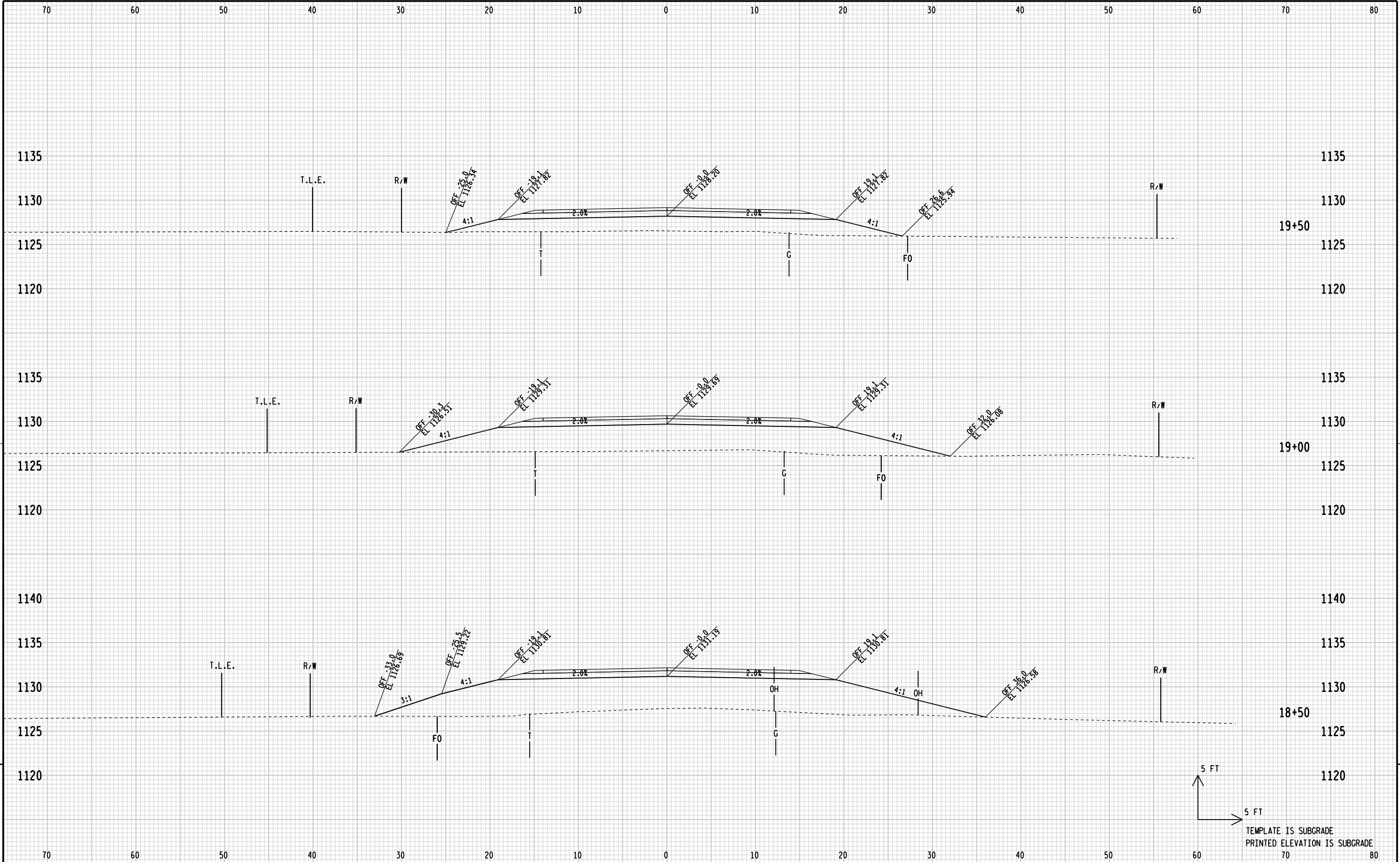
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PROJECT NUMBER: 6808-01-70		HWY: OLD HWY 18		COUNTY: PORTAGE		CROSS SECTIONS: OLD HWY 18		SHEET		E
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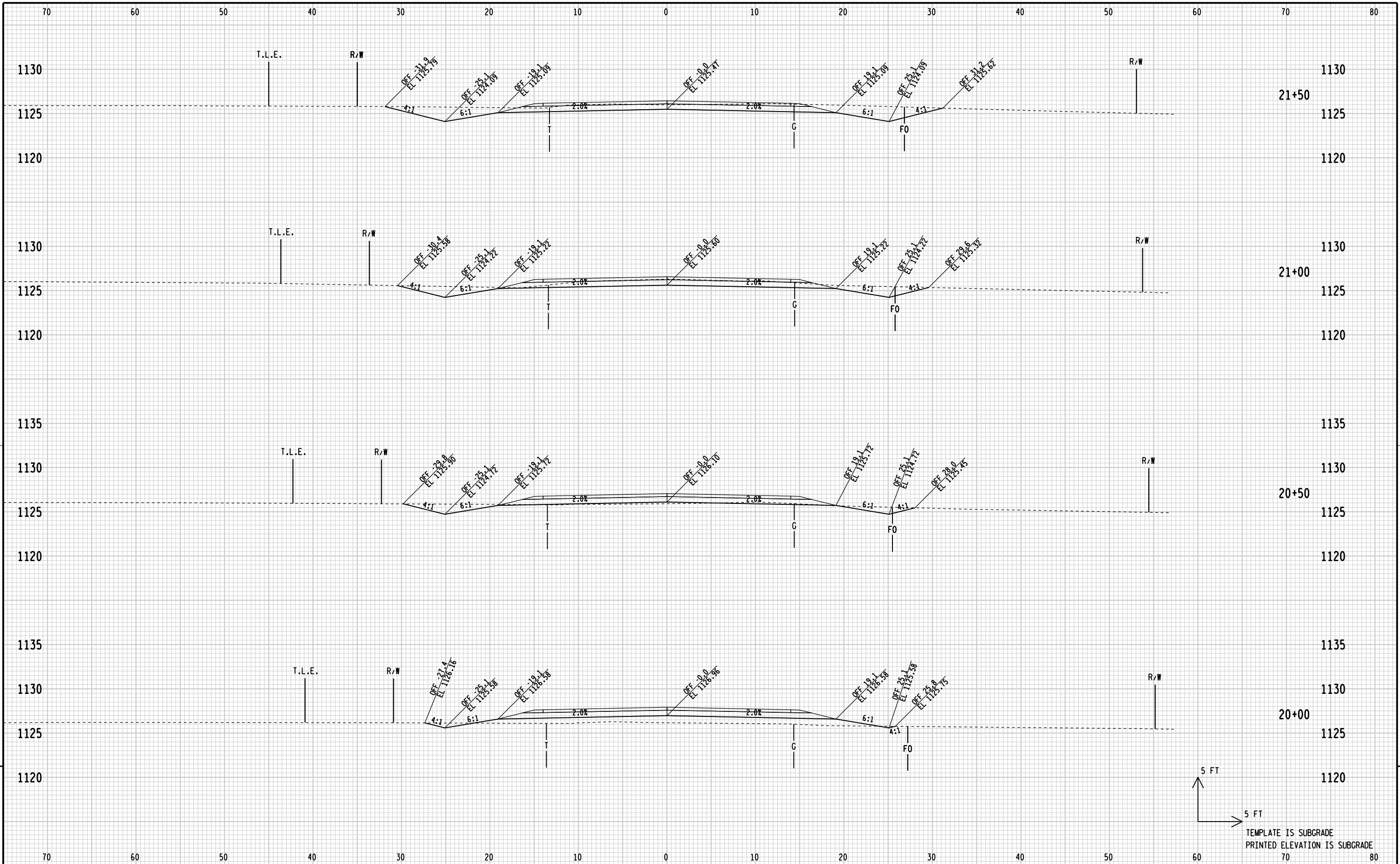


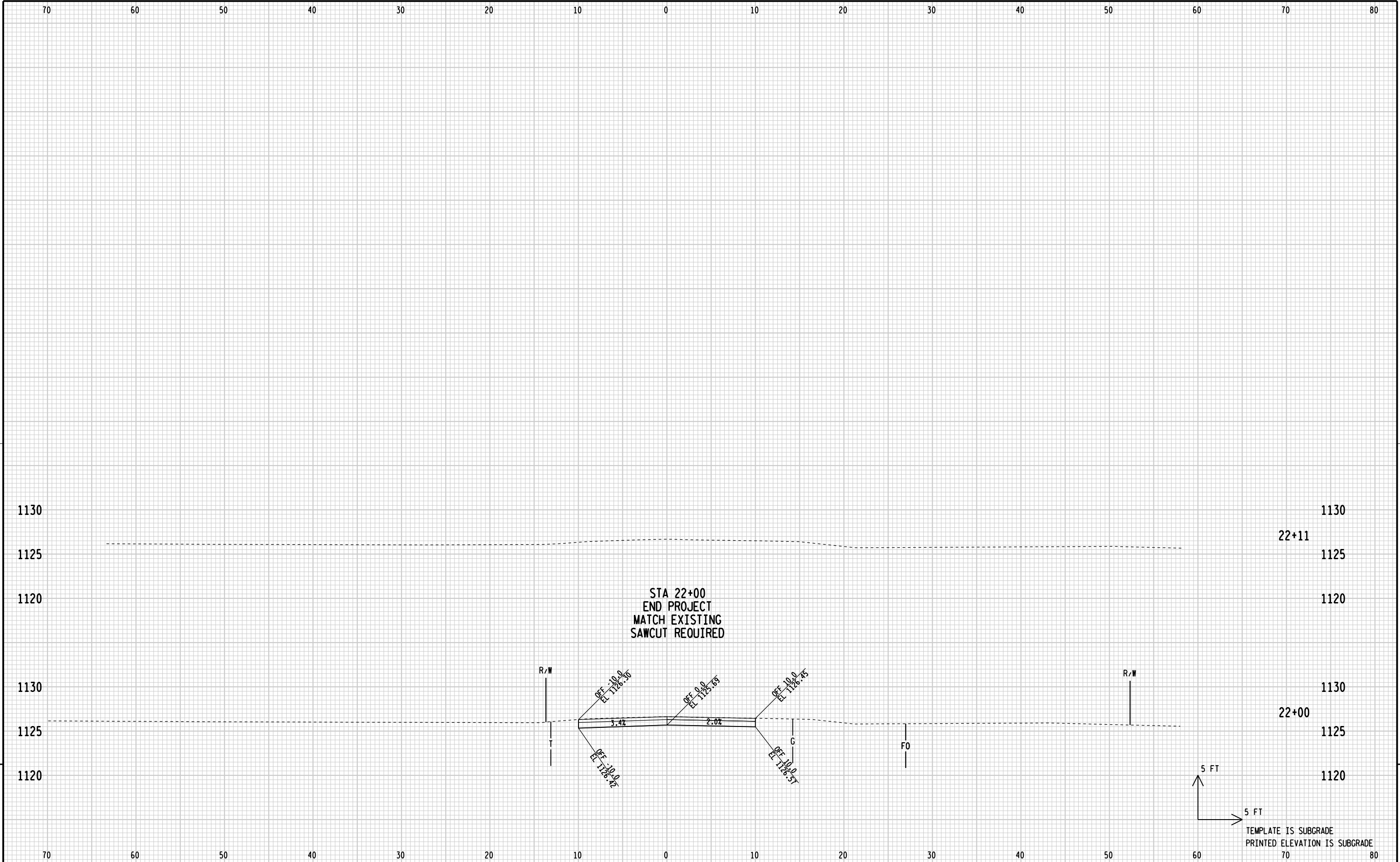


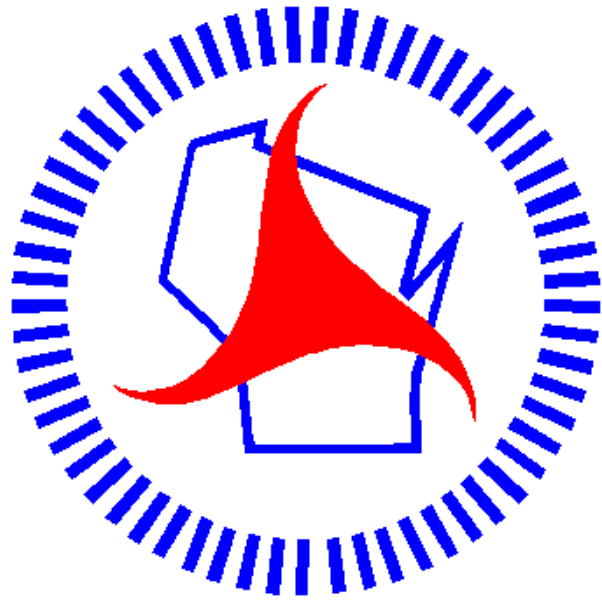
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PROJECT NUMBER: 6808-01-70	HWY: OLD HWY 18	COUNTY: PORTAGE	CROSS SECTIONS: BURBANK ROAD	SHEET	E
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Wisconsin Department of Transportation

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