

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 = 84

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

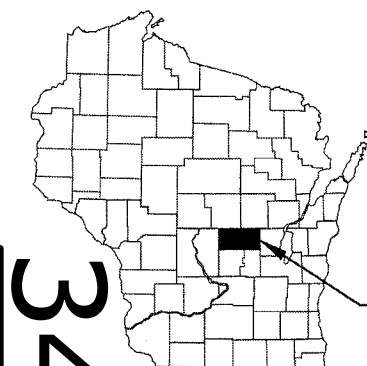
CTH W - PINE RIVER

CTH W TO CTH E

CTH H

WAUSHARA COUNTY

STATE PROJECT NUMBER
6910-00-70



PROJECT LOCATION

BEGIN PROJECT 6910-00-70
STA 11+00.00
Y = 160538.944
X = 426711.990

DESIGN DESIGNATION	WEST 1.7 MILES	EAST 0.3 MILES
A.A.D.T. (2015)	= 650	650
A.A.D.T. (2035)	= 820	820
D.H.V. (K100)	= 96	96
D.D.	= 50/50	50/50
T. (DHV)	= 6.0%	6.0%
DESIGN SPEED	= 55 MPH	35 MPH
ESALS	= 109,500	109,500

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

MARSH AREA

WOODED OR SHRUB AREA

PROFILE

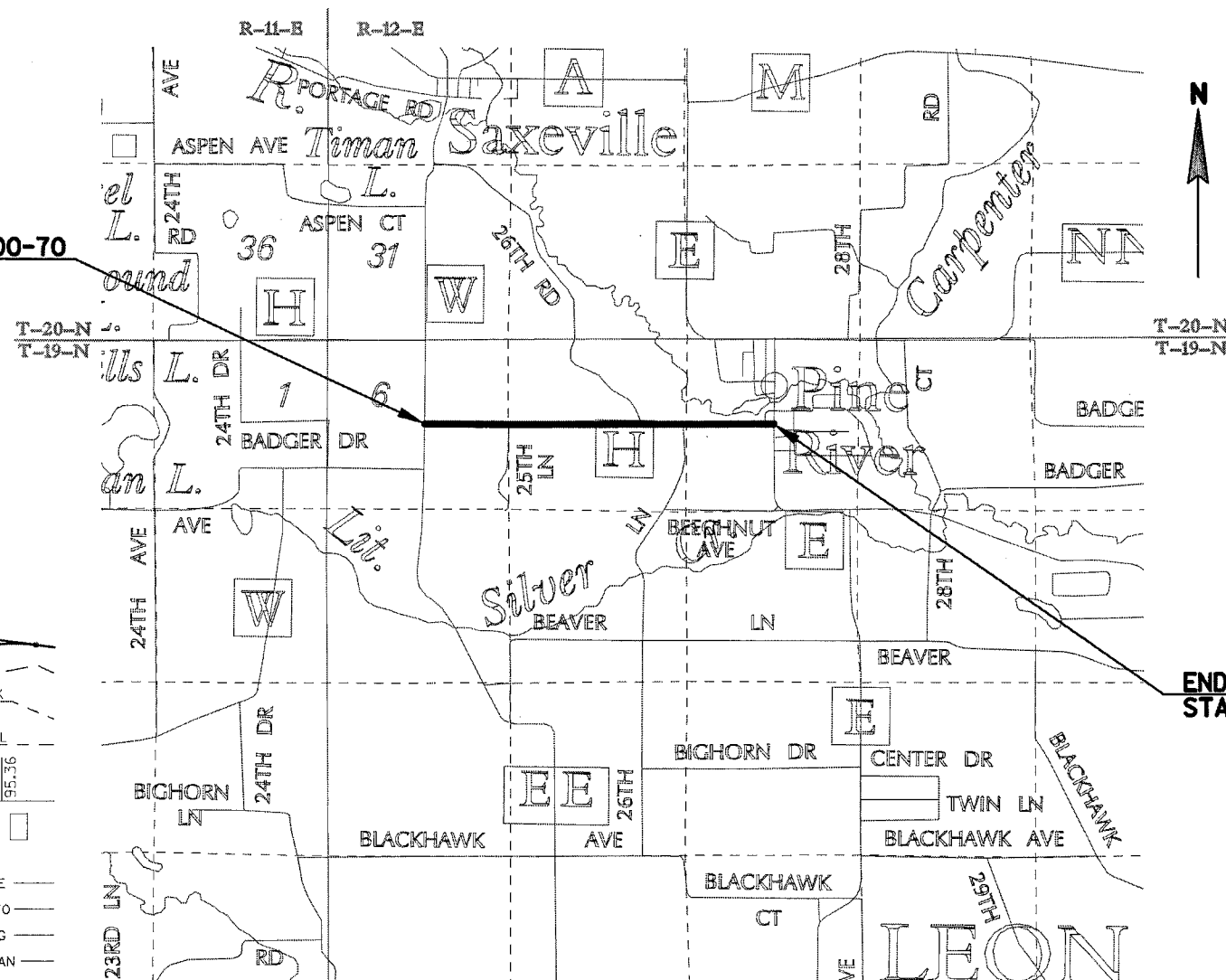
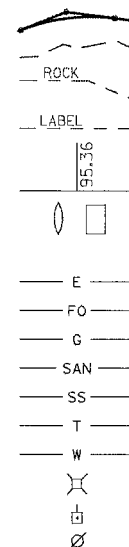
GRADE LINE	---
ORIGINAL GROUND	---
MARSH OR ROCK PROFILE (To be noted as such)	---
SPECIAL DITCH	---

GRADE ELEVATION

CULVERT (Profile View)

UTILITIES

ELECTRIC	---
FIBER OPTIC	---
GAS	---
SANITARY SEWER	---
STORM SEWER	---
TELEPHONE	---
WATER	---
UTILITY PEDESTAL	---
POWER POLE	---
TELEPHONE POLE	---



END PROJECT 6910-00-70
STA 115+50.00

LAYOUT

SCALE 0 1/2 MI. 1 MI.

TOTAL NET LENGTH OF CENTERLINE 6910-00-70 = 1.979 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO
THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS),
WAUSHARA COUNTY 1983 (1991 ADJUSTMENT)

STATE PROJECT

6910-00-70

FEDERAL PROJECT

PROJECT

WISC 2015148

CONTRACT

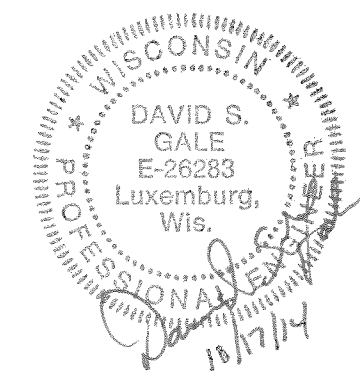
1

ACCEPTED FOR
COUNTY OF WAUSHARA

10-17-14 *Thomas A. Dahlke*
(Date) (Signature)

Hwy. Commissioner
(Title of Official)

ORIGINAL PLANS PREPARED BY
OMNI ASSOCIATES



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	OMNI ASSOCIATES, INC.
Designer	OMNI ASSOCIATES, INC.
Project Manager	D. GALE, PE
Management Consultant	CEDAR CORP.

APPROVED FOR THE DEPARTMENT

DATE: 10-30-14 *J. M. Wolf*
(Management Consultant Signature)

E

2

GENERAL NOTES

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

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY UTILITY WHICH IS NOT A MEMBER OF DIGGERS HOTLINE MUST BE CONTACTED SEPERATELY.

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL THE EROSION CONTROL PROTECTION IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.

A BUTT JOINT SHALL BE PLACED AT ALL LOCATIONS WHERE NEW PAVEMENT IS TO MATCH EXISTING PAVEMENT. ALL BUTT JOINTS SHALL BE SAWCUT OR REMOVED AS APPROVED BY THE ENGINEER TO PROVIDE A VERTICAL FACE.

ALL SIDE ROAD INTERSECTIONS SHALL BE PULVERIZED AND RELAID TO THE LIMITS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

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

THE EXACT LOCATIONS AND LIMITS OF PRIVATE ENTRANCES, FIELD ENTRANCES AND COMMERCIAL ENTRANCES SHALL BE DETERMINED BY THE ENGINEER.

DRIVEWAYS SHALL BE REPLACED IN KIND AND IN ACCORDANCE WITH THE CONSTRUCTION DETAILS.

ALL COORDINATES ON THIS PLAN ARE REFERENCED TO THE WAUSHARA COUNTY COORDINATE SYSTEM. DISTANCES SHOWN ON THIS PLAN ARE GROUND DISTANCES. BEARINGS SHOWN ON THIS PLAN ARE GRID BEARINGS.

PERMANENT SIGNING SHALL BE BY THE WAUSHARA COUNTY HIGHWAY DEPARTMENT.

ORDER OF "SECTION 2" SHEETS

SHEET TITLE

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
EROSION CONTROL PLAN
PAVEMENT MARKING
TRAFFIC CONTROL

DIGGERSHOTLINE

Dial 811 or (800) 242-8511

www.DiggersHotline.com

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	0.08	0.16	0.22	0.12	0.20	0.27	0.15	0.24	0.33	0.19	0.28	0.38
	0.22	0.30	0.38	0.26	0.34	0.44	0.30	0.37	0.50	0.34	0.41	0.56
MEDIAN STRIP - TURF	0.19	0.20	0.24	0.19	0.22	0.26	0.20	0.23	0.30	0.20	0.25	0.30
	0.24	0.26	0.30	0.25	0.28	0.33	0.26	0.30	0.37	0.27	0.32	0.40
SIDE SLOPE - TURF			0.25			0.27			0.28			0.30
			0.32			0.34			0.36			0.38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											
TOTAL PROJECT ARE16.38 ACRES												
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES 11.35 ACRES												
OTHER CONTACTS DNR LIAISON BOBBI JO FISCHER DEPARTMENT OF NATURAL RESOURCES 427 EAST TOWER DRIVE SUITE 100 WAUTOMA, WI 54982 TELEPHONE: 920-787-4686 E-MAIL: BOBBI.FISCHER@WISCONSIN.GOV HIGHWAY COMMISSIONER WAUSHARA COUNTY HIGHWAY DEPARTMENT 1001 E. MAIN STREET WAUTOMA, WI 54982 ATTN: TOM DAHLKE TELEPHONE: 920-787-3327 E-MAIL: TOMD.HIGHWAY@CO.WAUSHARA.WI.US COUNTY SURVEYOR WAUSHARA COUNTY 209 S. ST. MARIE STREET WAUTOMA, WI 54982 ATTN: JERRY SMART TELEPHONE: 920-787-0459 UTILITIES ELECTRIC ALLIANT ENERGY 880 N. WISCONSIN STREET BERLIN, WI 54923 ATTN: TED SCHMITZ TELEPHONE: (920) 361-5629 CELL: (920)-948-8779 EMAIL: TEDSCHMITZ@ALLIANTENERGY.COM COMMUNICATIONS CENTURYLINK 144 N. PEARL STREET BERLIN, WI 54923 ATTN: ROSS HARTWIG TELEPHONE: (920) 361-8425 CELL: (920) 896-2867 EMAIL: ROSS.HARTWIG@CENTURYLINK.COM GAS WE ENERGIES 1921 8TH STREET SOUTH WISCONSIN RAPIDS, WI 54494 ATTN: RYAN MIENTKE TELEPHONE: (715) 421-7249 CELL: (715) 421-9293 EMAIL: RYAN.MIENTKE@WE-ENERGIES.COM GAS TRANSCANADA ANR PIPELINE 2629 SUNSET DR. STEVENS POINT, WI 54482 ATTN: DUANE PRONDZINSKI TELEPHONE: (715) 295-3143 CELL: (715) 460-4322 EMAIL: DUANE_PRONDZINSKI@TRANSCANADA.COM												

PROJECT NO: 6910-00-70	HWY: CTH H	COUNTY: WAUSHARA	GENERAL NOTES	SHEET:	E
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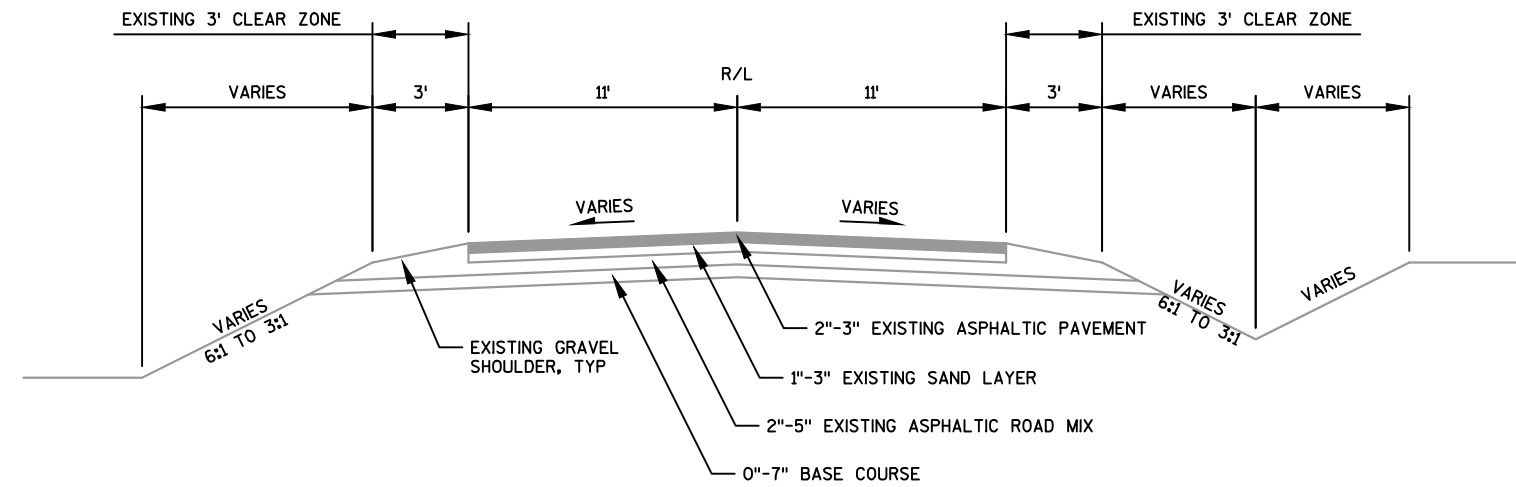
ORIGINATOR: OMNNI ASSOCIATES

ORIG. DATE:

REV. DATE:

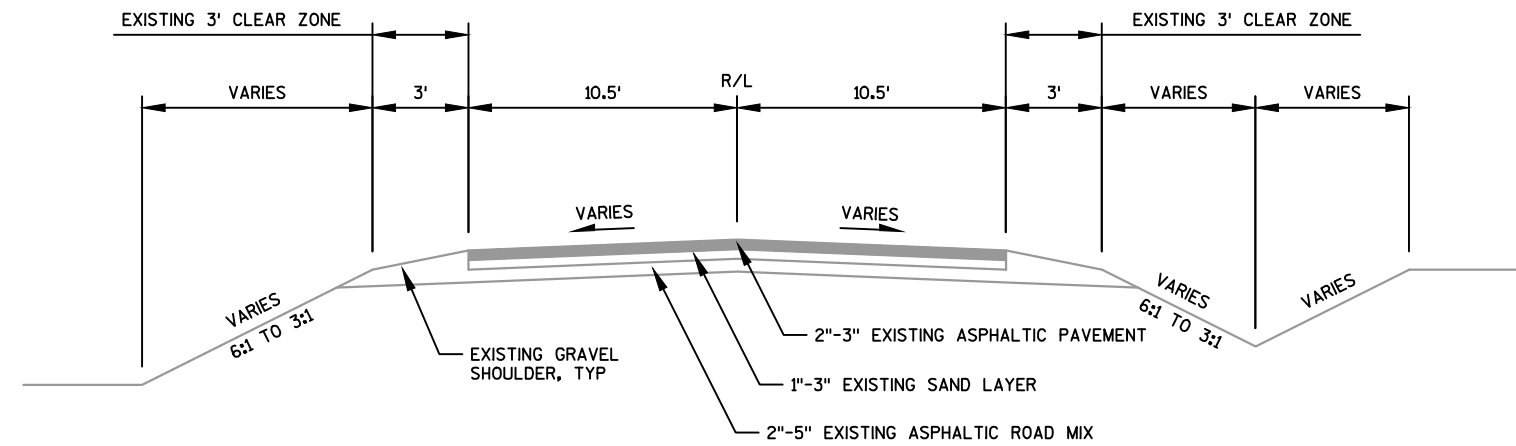
PRINT DATE: October 17, 2014

2.1



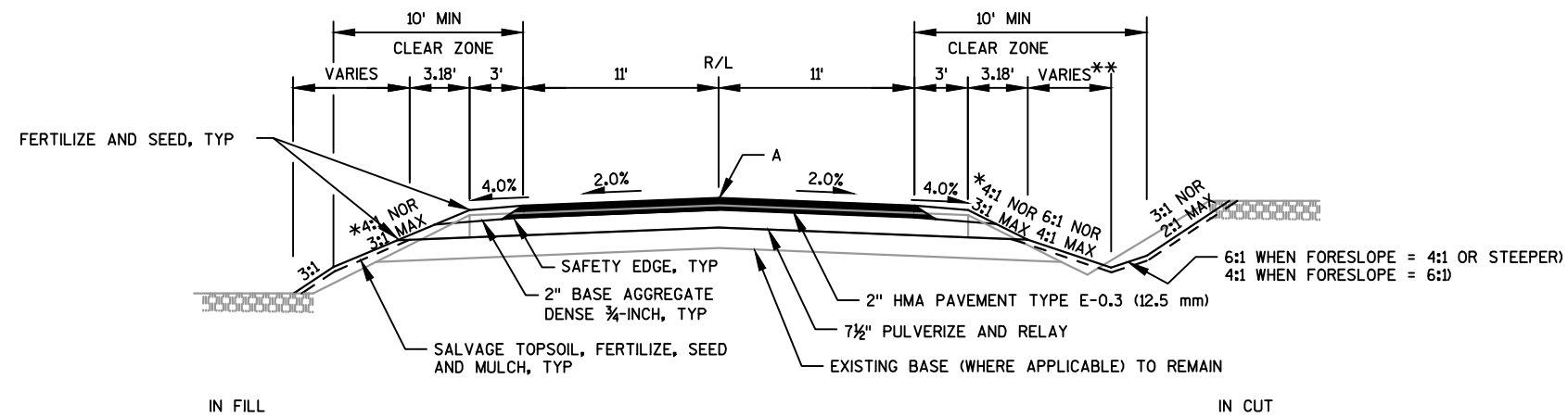
TYPICAL EXISTING SECTION FOR CTH H

STA 11+00 TO STA 98+00



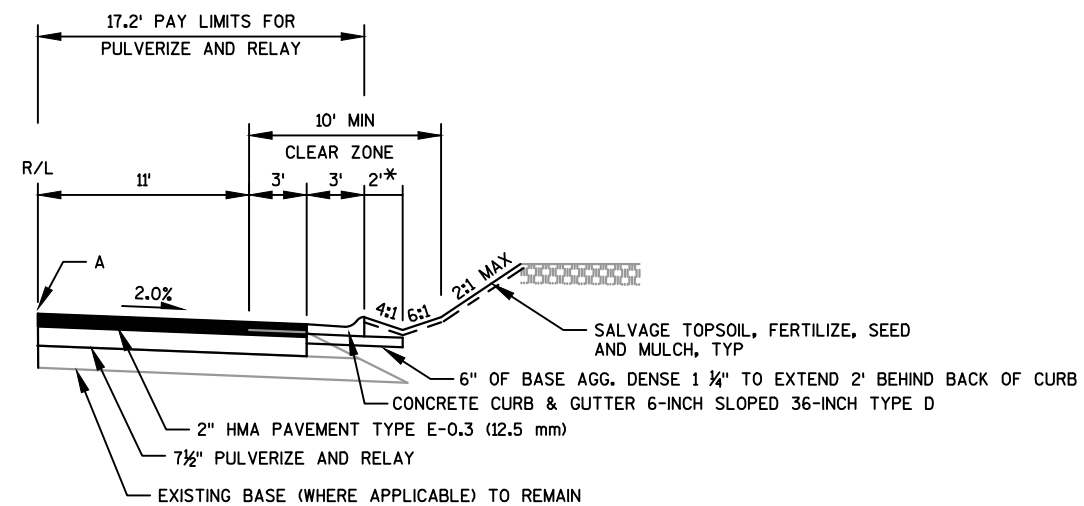
TYPICAL EXISTING SECTION FOR CTH H

STA 98+00 TO STA 115+50



TYPICAL FINISHED SECTION - CTH H

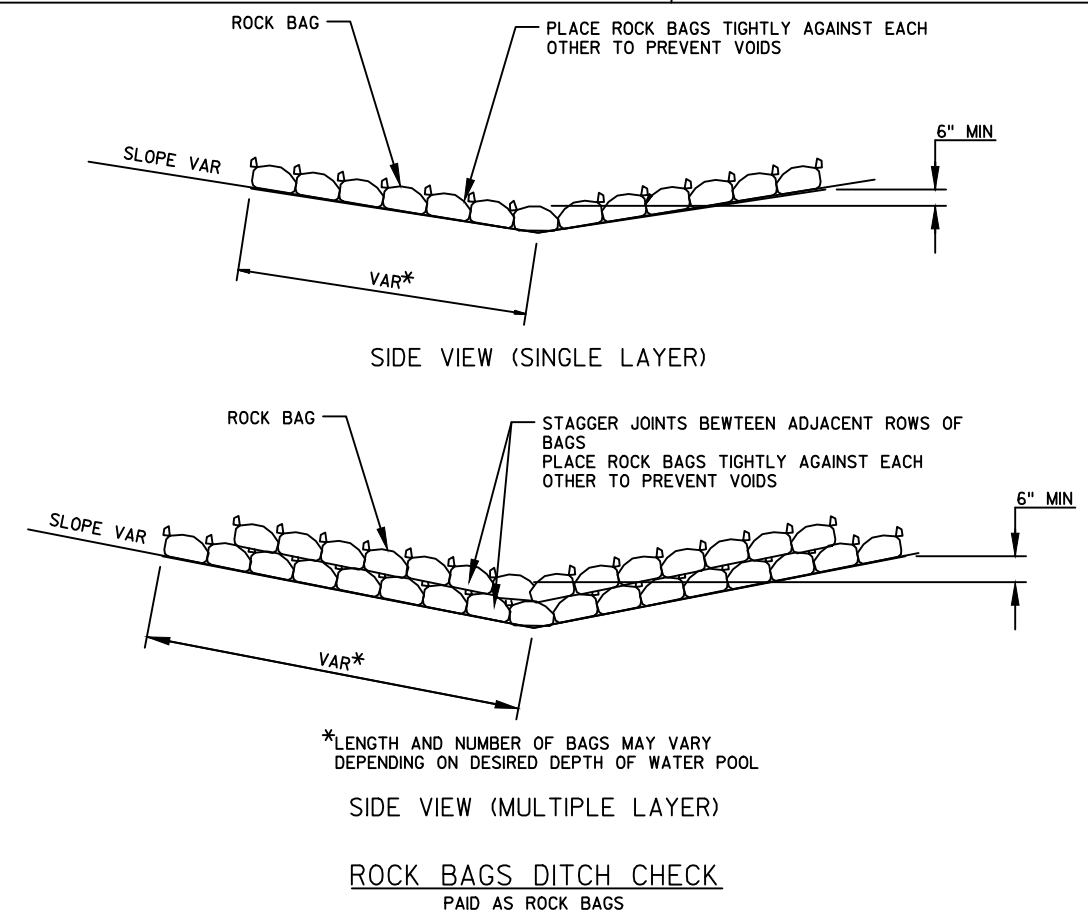
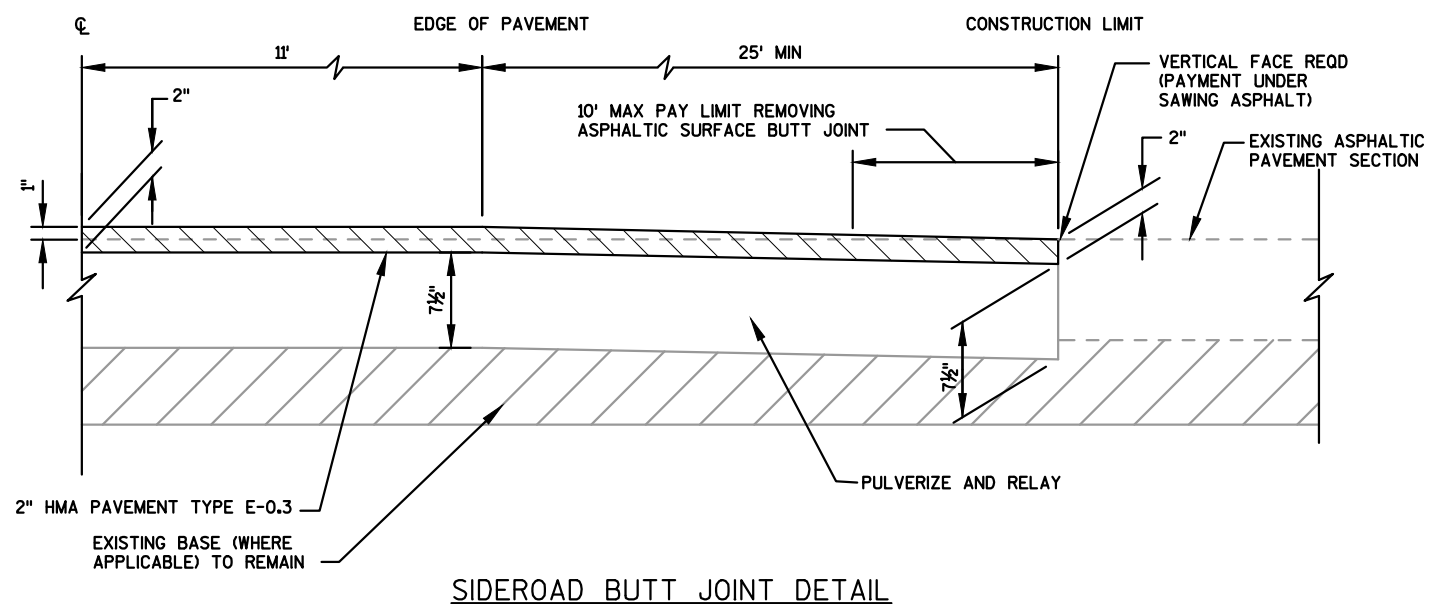
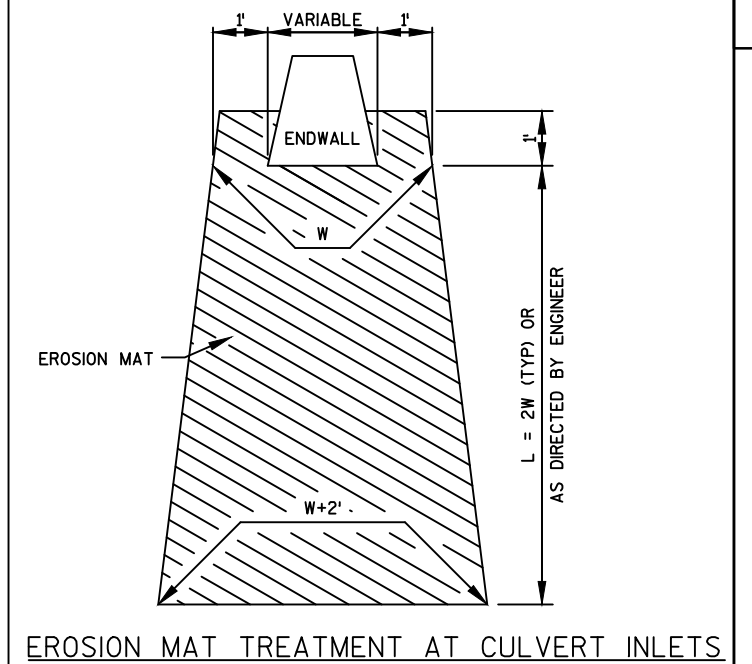
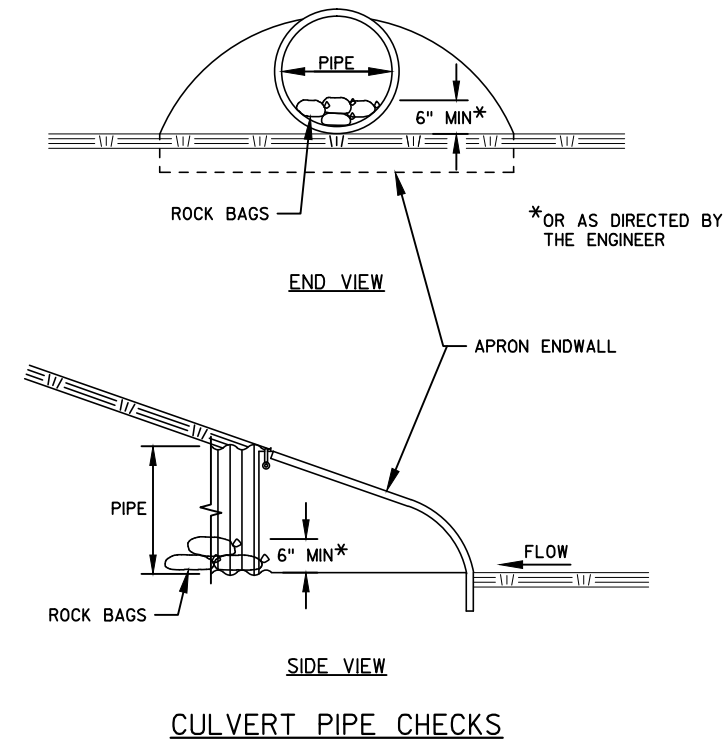
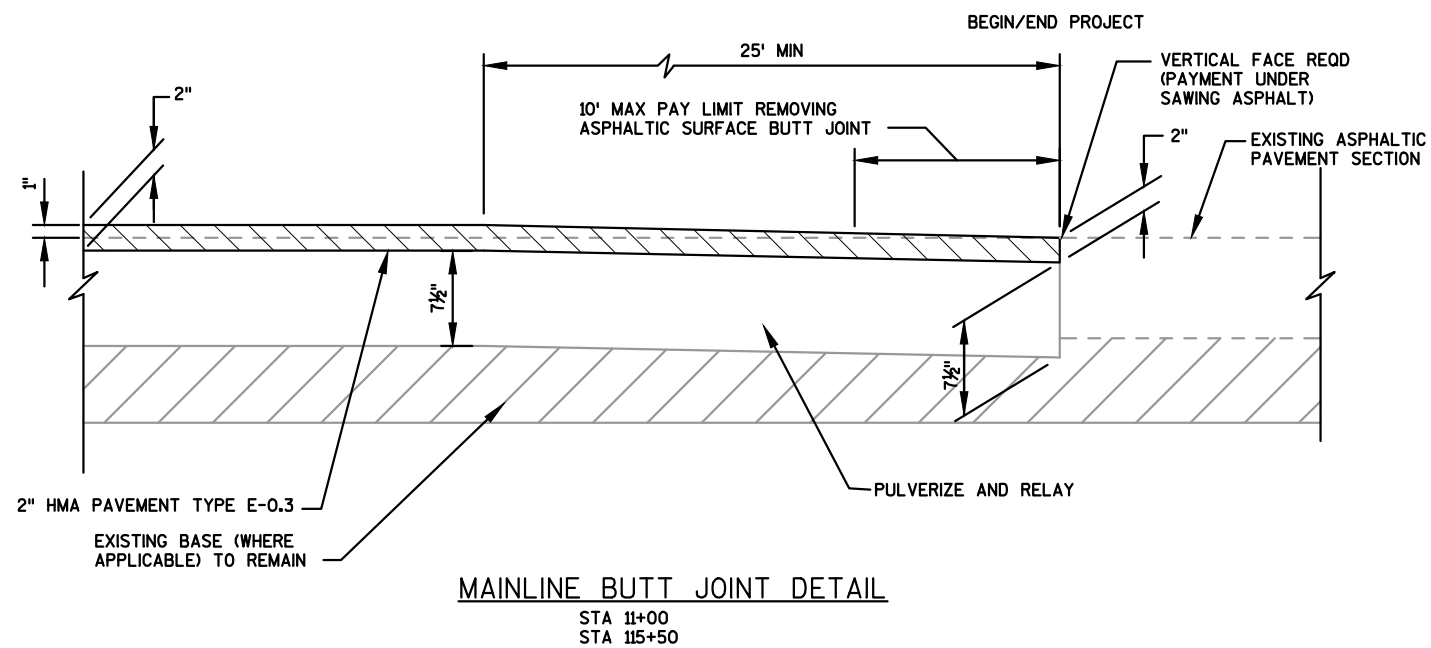
STA 11+00 TO STA 115+50

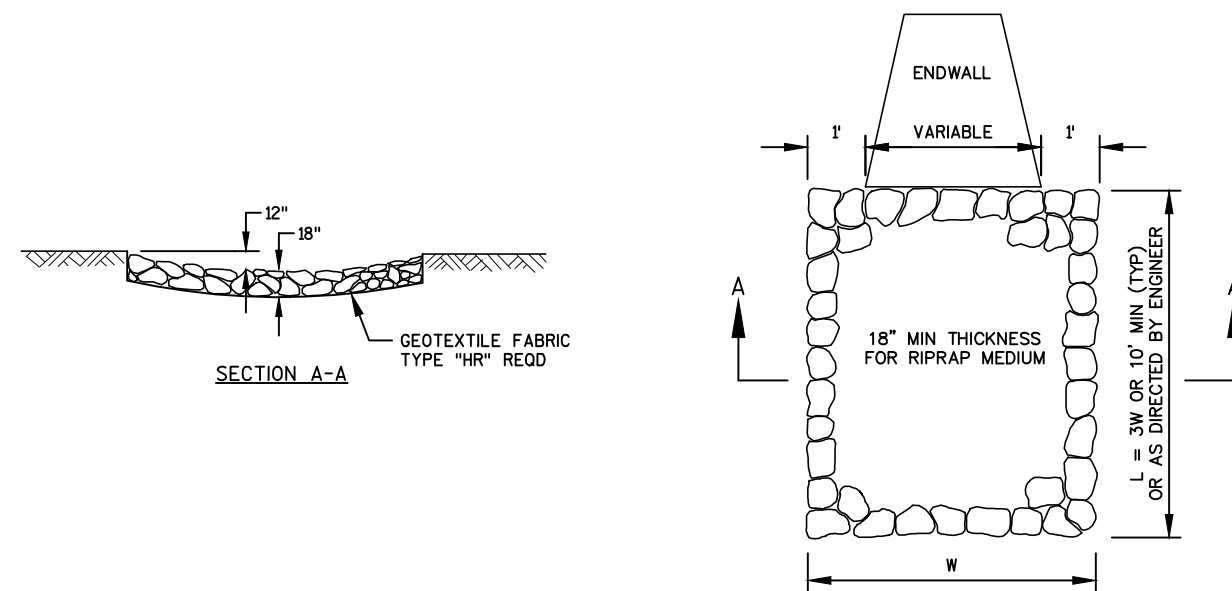


TYPICAL FINISHED HALF SECTION - CTH H

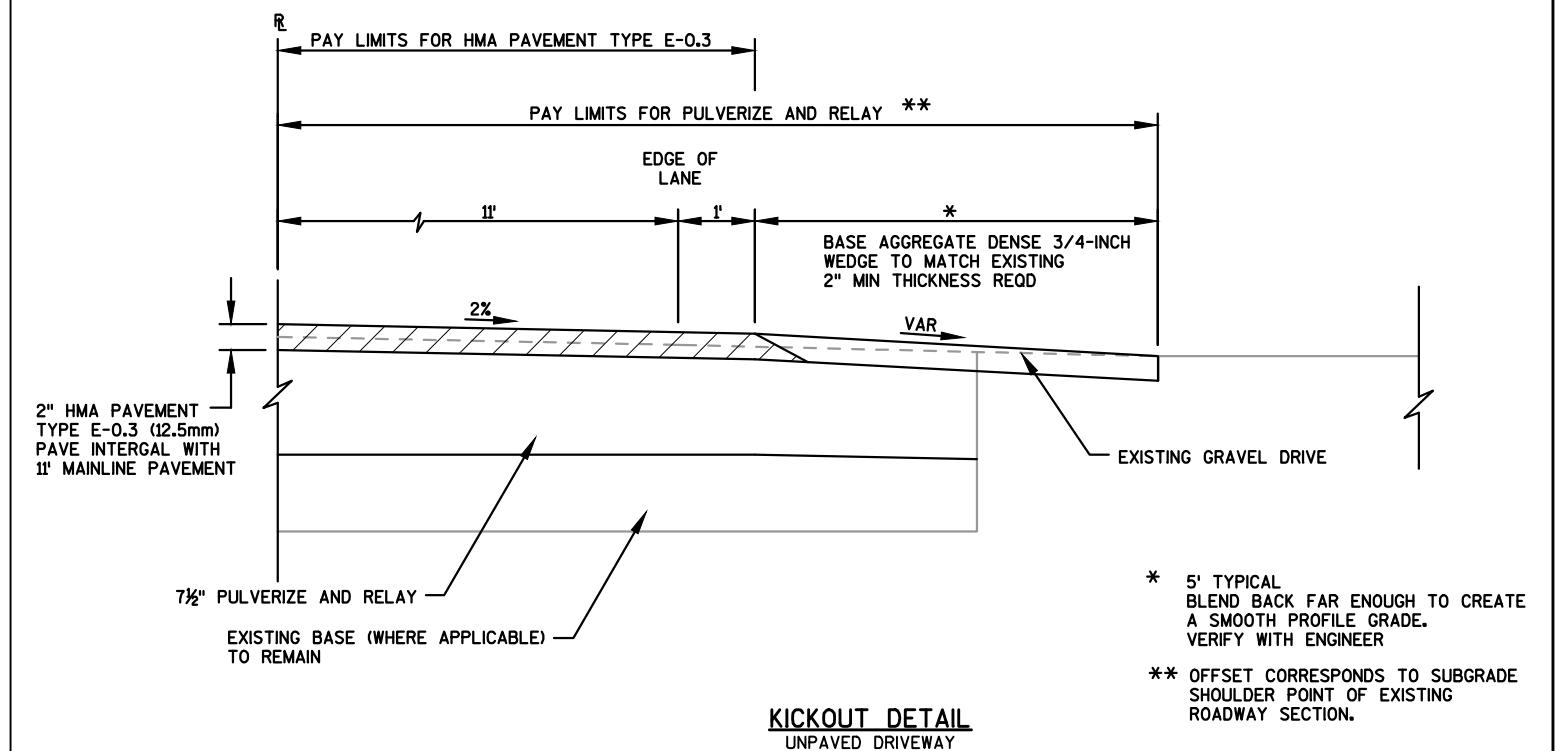
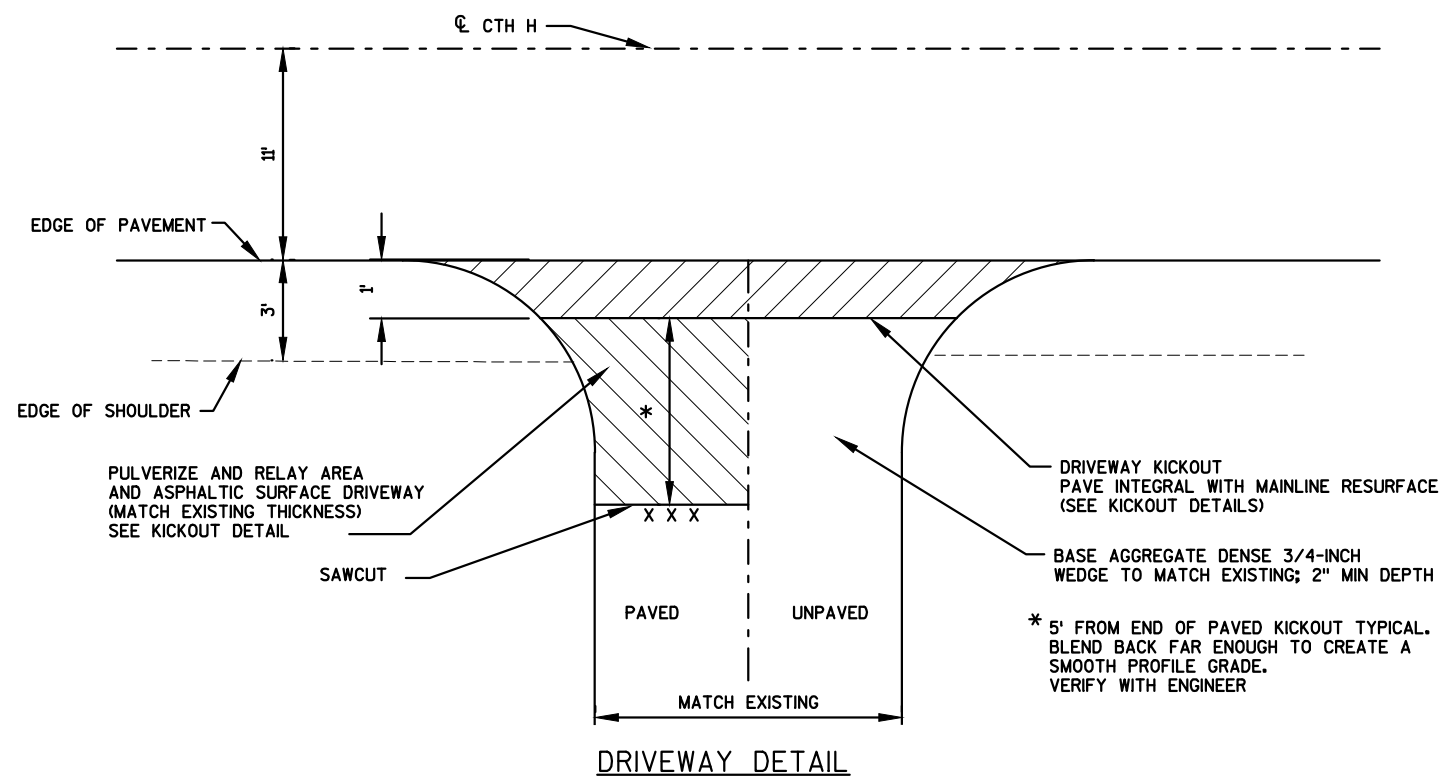
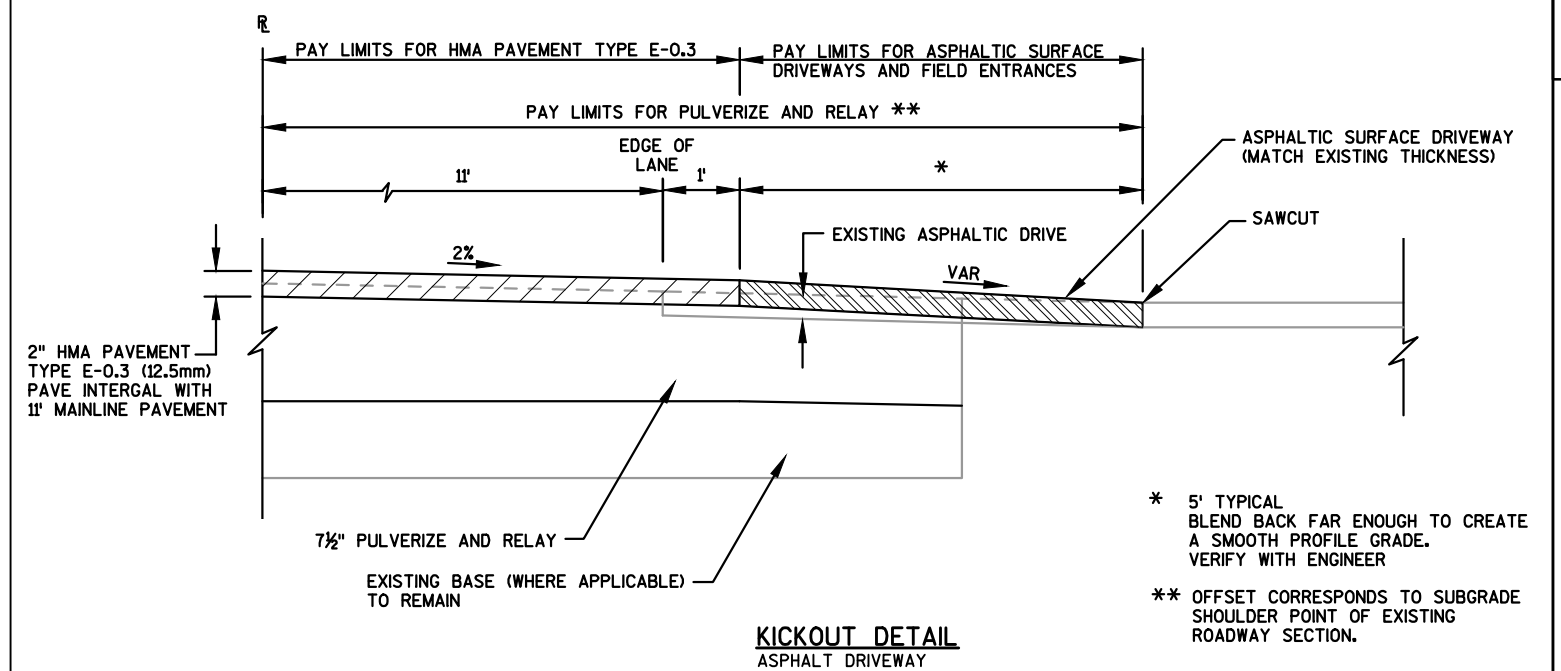
STA 27+65 - 30+00 RT
STA 59+00 - 61+25 RT
STA 59+25 - 60+75 LT
STA 64+00 - 70+75 RT
STA 73+25 - 75+50 RT
STA 96+50 - 100+50 RT

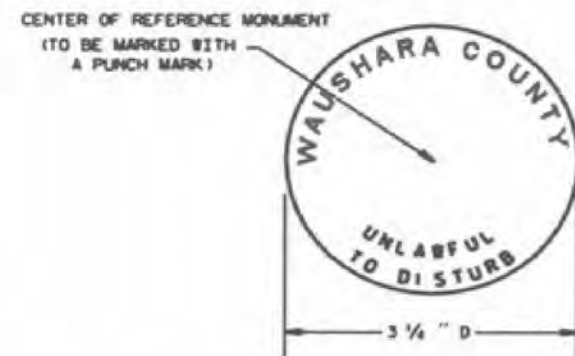
NOTE A: PROPOSED ELEVATION 1" HIGHER THAN EXISTING
*4' WIDTH AT STA 96+50-100+50 RT
*4.5' WIDTH AT STA 64+00-70+75 RT





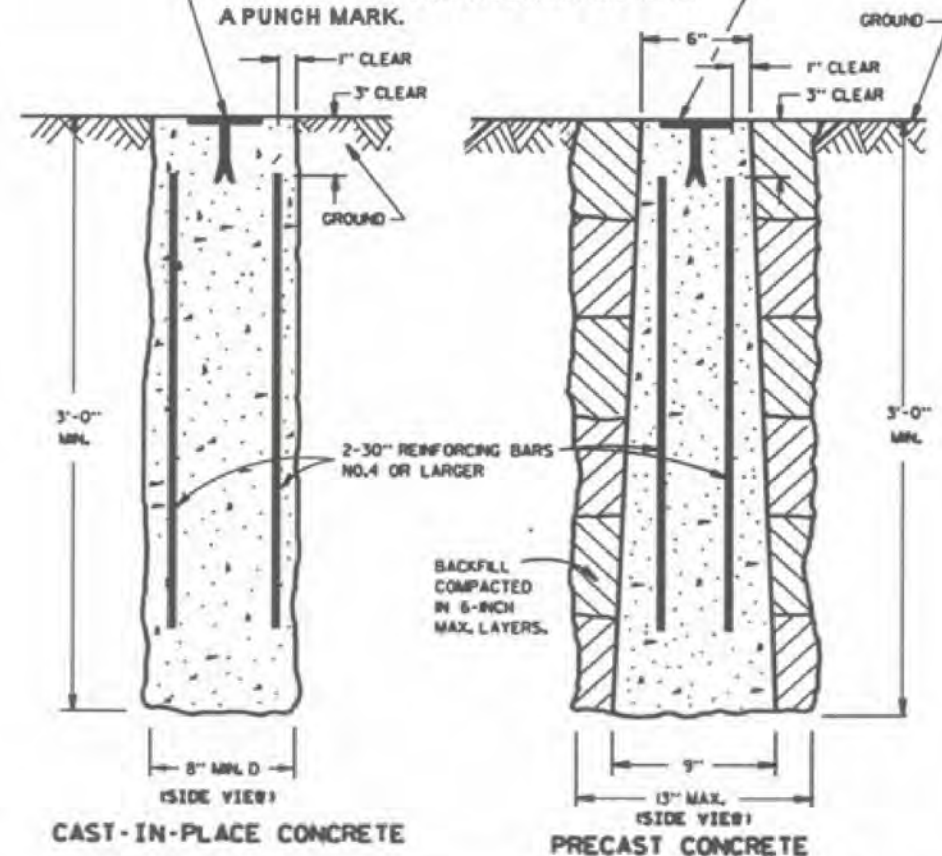
RIPRAP MEDIUM TREATMENT AT CULVERT OUTLETS





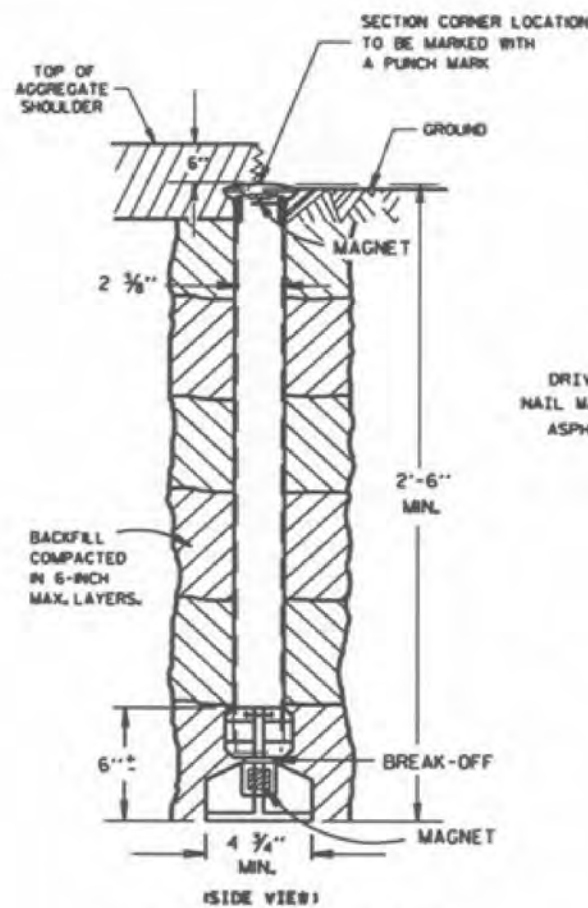
① WAUSHARA COUNTY MONUMENT MARKER LOGO

① MONUMENT MARKER FURNISHED BY WAUSHARA COUNTY TO BE CENTERED ON CONCRETE MONUMENT. CONCRETE TO BE FLUSH WITH GROUND SURFACE OR DEPRESSED IN PAVED SURFACE. CENTER TO BE MARKED WITH A PUNCH MARK.

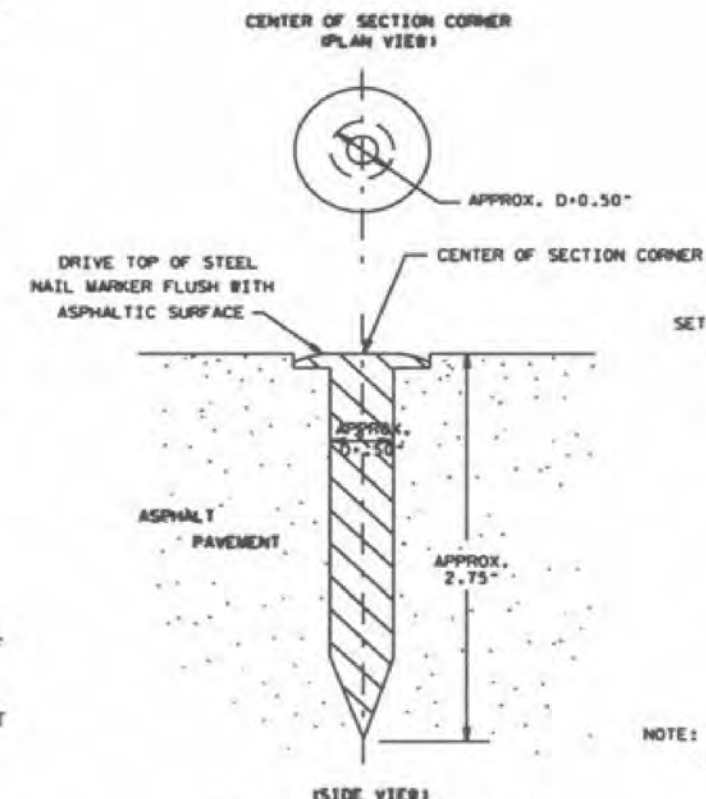


LANDMARK REFERENCE MONUMENTS (TIES ONLY)

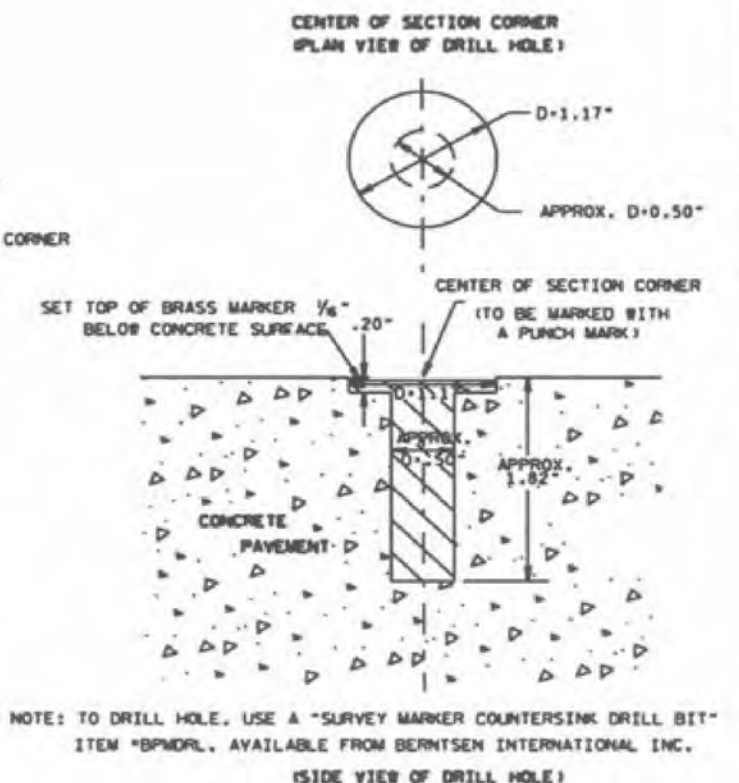
SECTION CORNER MONUMENT AND LANDMARK REFERENCE MONUMENT DETAIL



① BERNSTEN A1B30 ALUMINUM BREAK-OFF MONUMENT



① BERNSTEN SMM1 STEEL NAIL MARKER



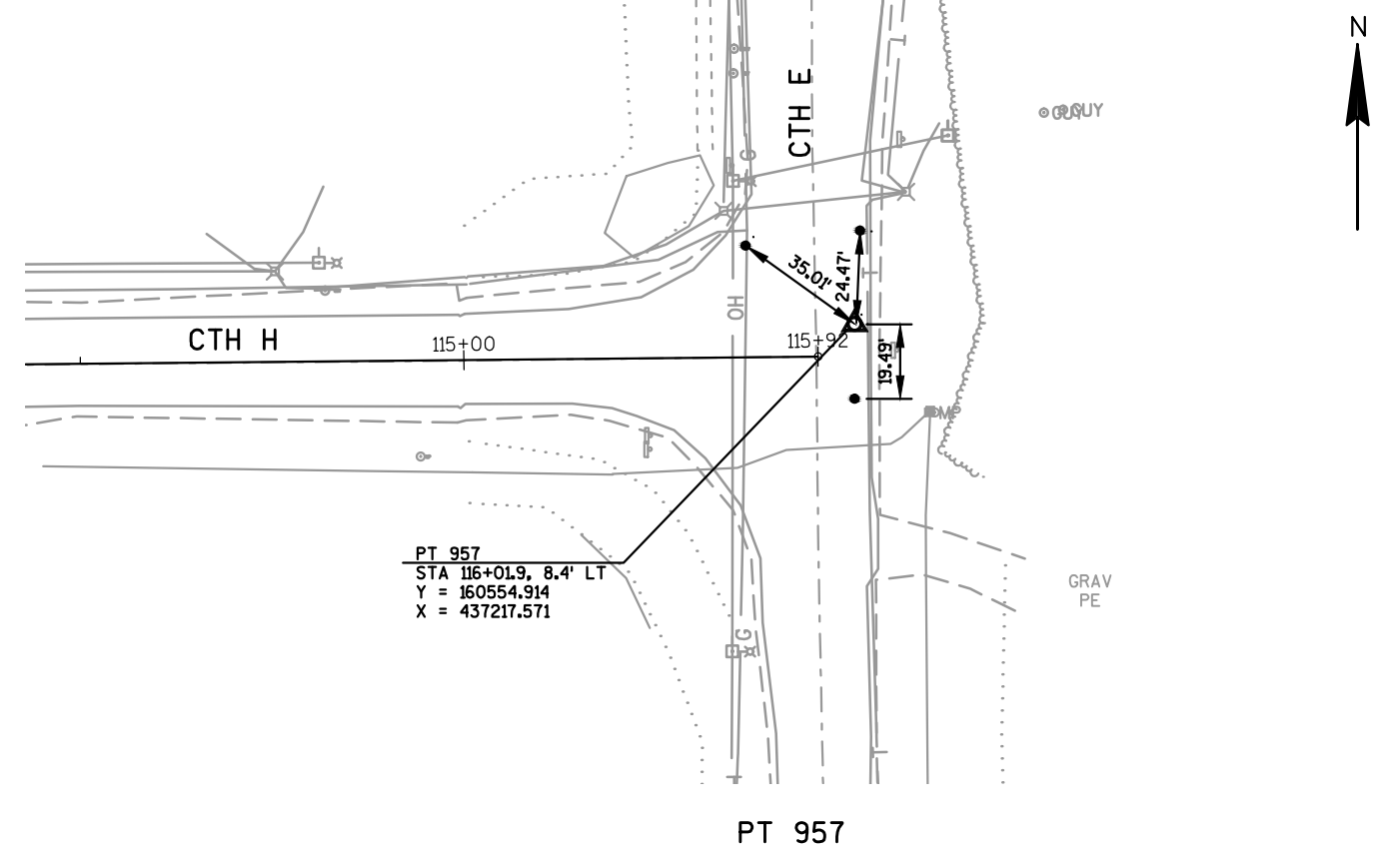
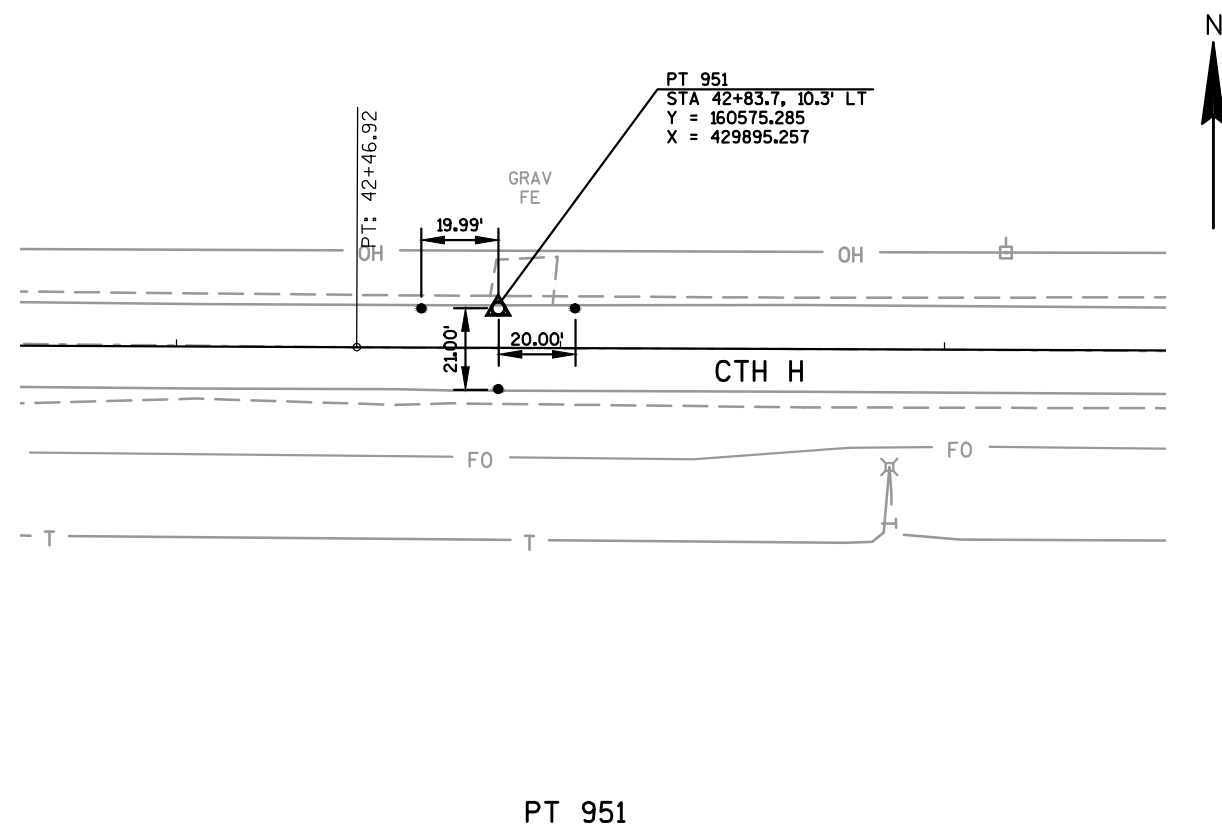
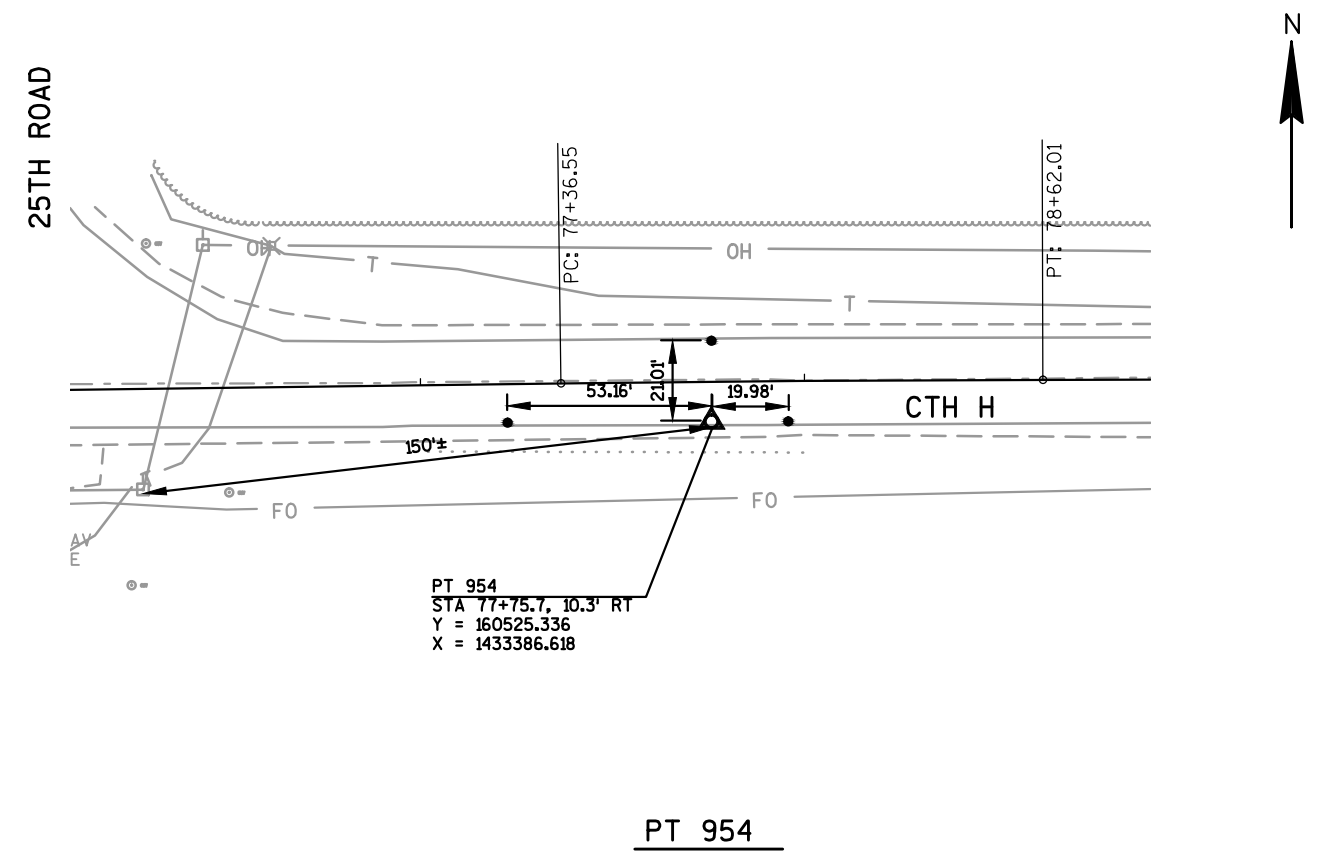
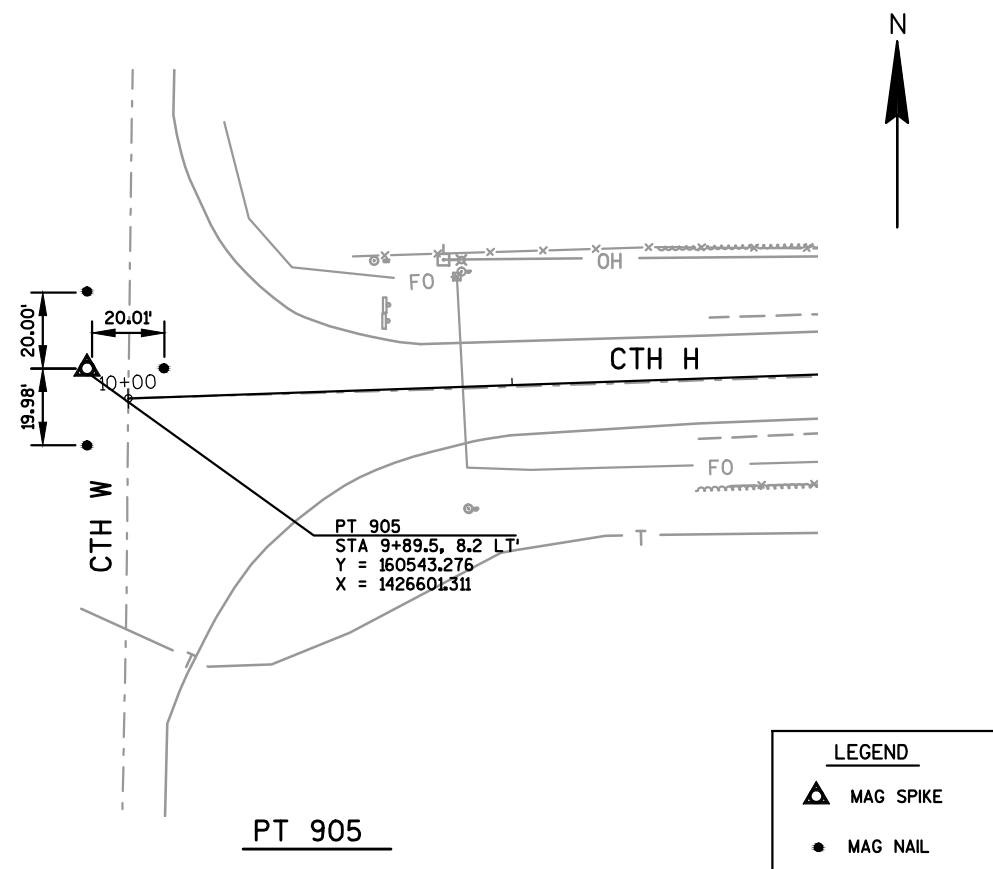
① BERNSTEN BP -1 BRASS MARKER WITH ANCHOR PLUG

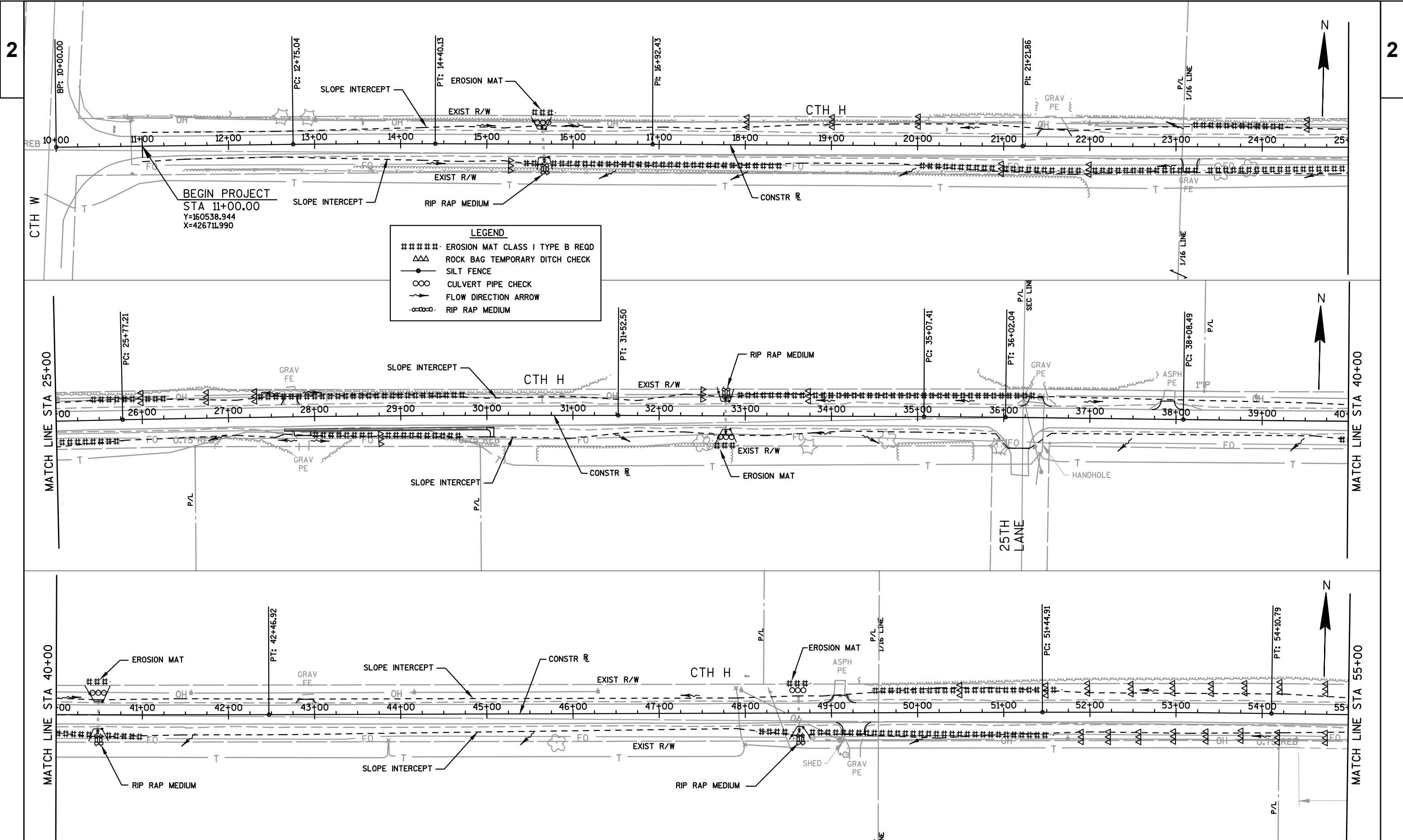
SECTION CORNER MONUMENTS

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. LOCATE LANDMARK REFERENCE MONUMENTS OUTSIDE THE CONSTRUCTION LIMITS AND WITHIN WAUSHARA COUNTY HIGHWAY RIGHT OF WAY. LOCATION TO BE APPROVED BY ENGINEER.

① THE WAUSHARA COUNTY SURVEYOR WILL SUPPLY.





PROJECT NO: 6910-00-70

HWY: CTH H

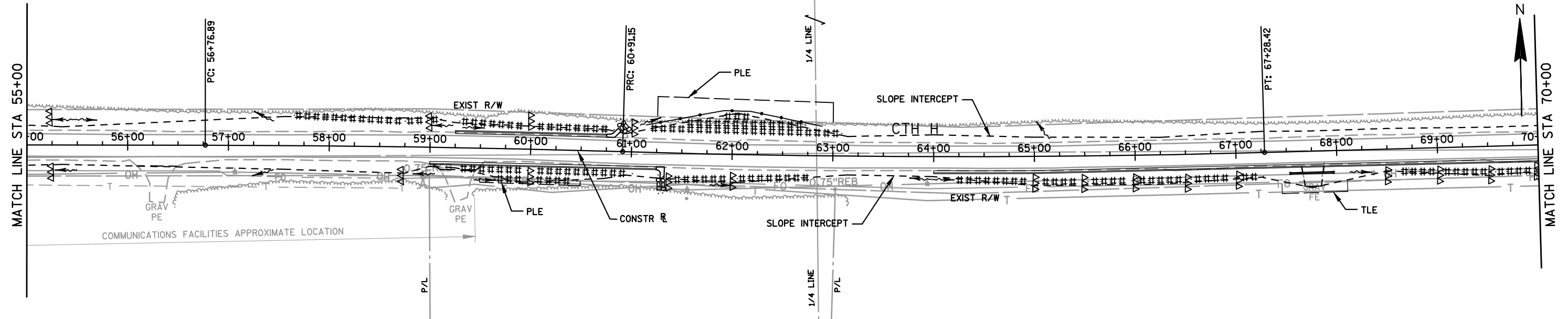
COUNTY: WAUSHARA

EROSION CONTROL PLAN

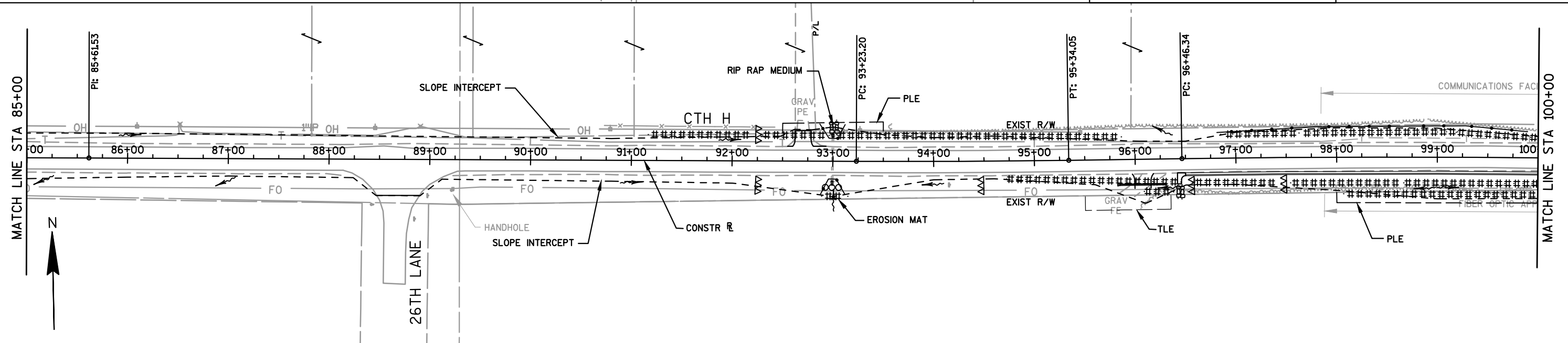
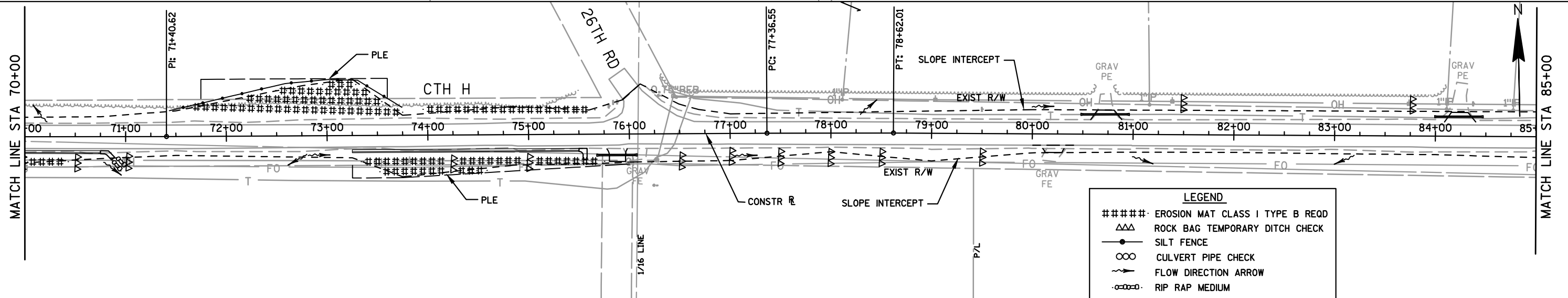
SHEET

E

2



2



PROJECT NO: 6910-00-70

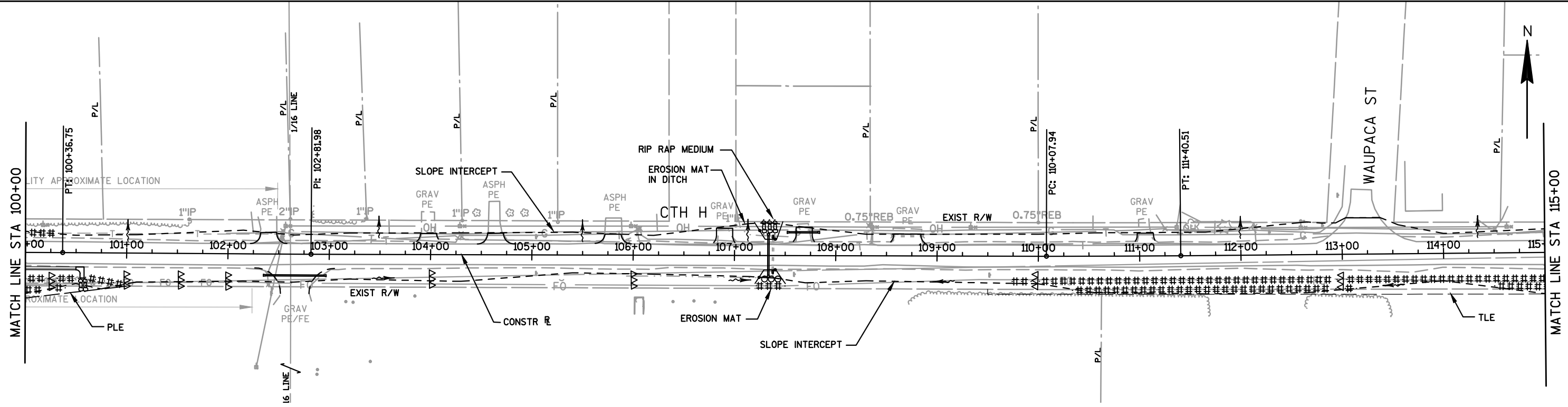
HWY: CTH H

COUNTY: WAUSHARA

EROSION CONTROL PLAN

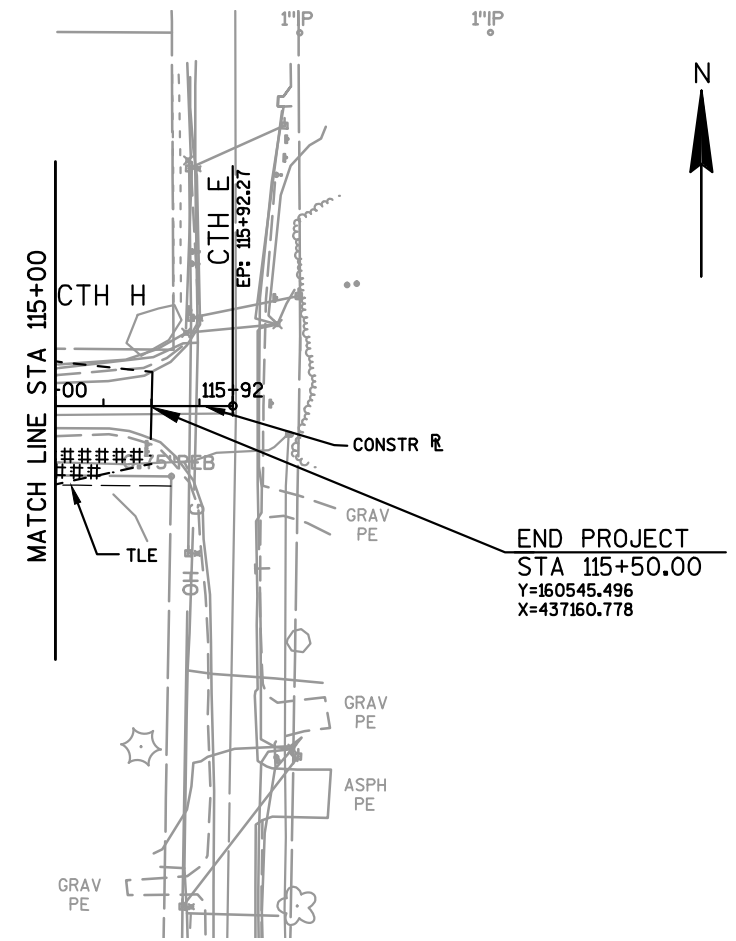
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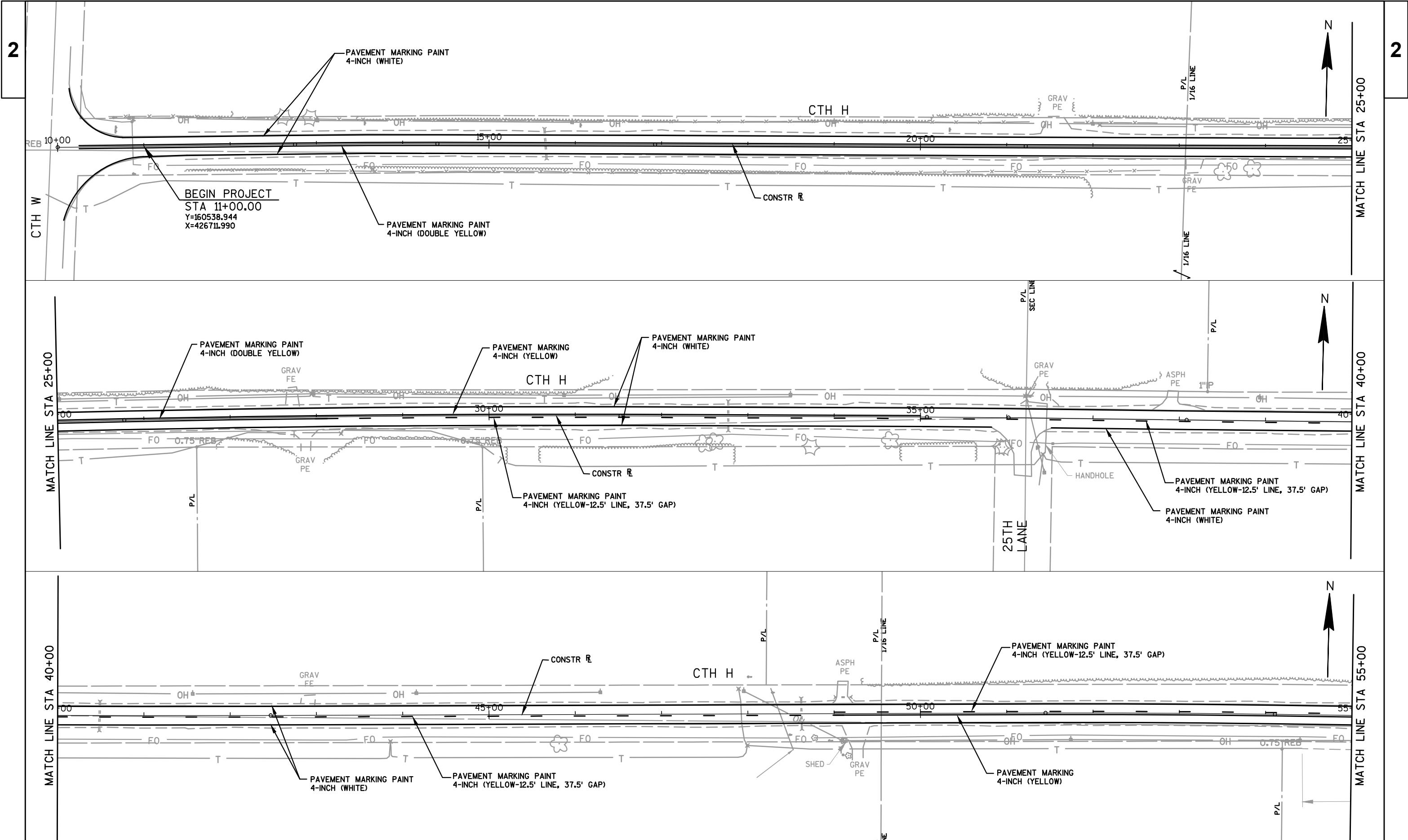
E



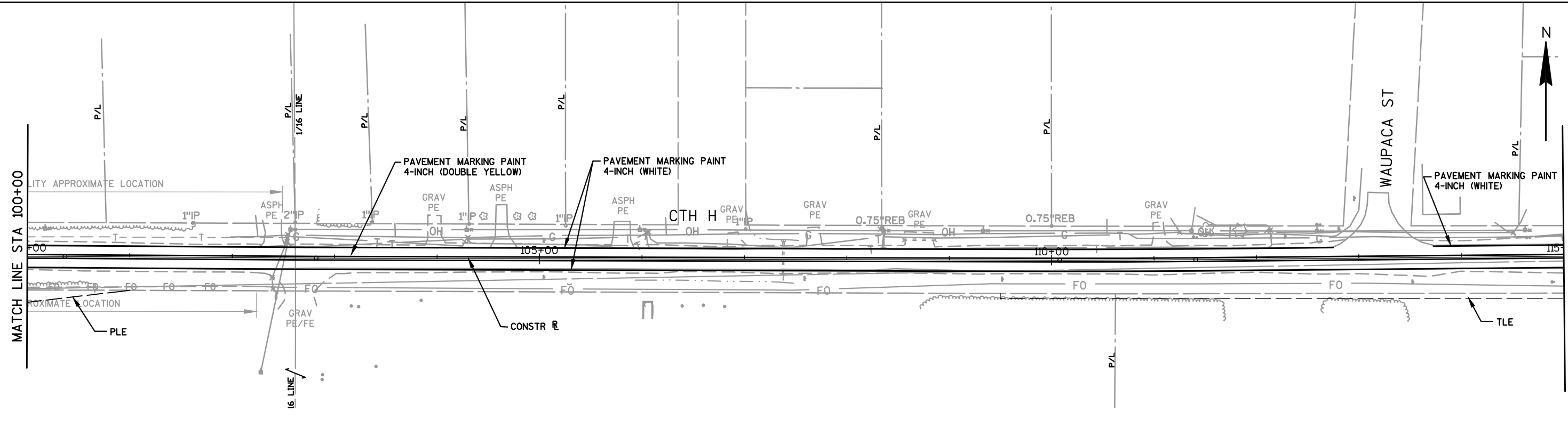
LEGEND

- ##### EROSION MAT CLASS I TYPE B REQD
- △△△ ROCK BAG TEMPORARY DITCH CHECK
- SILT FENCE
- CULVERT PIPE CHECK
- FLOW DIRECTION ARROW
- o-o-o- RIP RAP MEDIUM

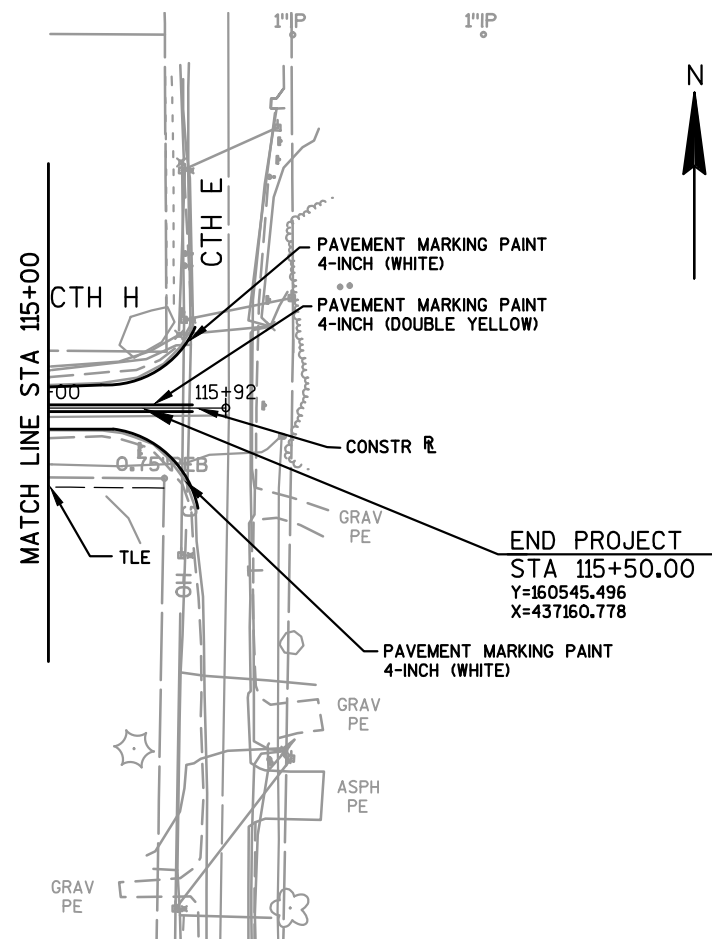




2



2



PROJECT NO: 6910-00-70

HWY: CTH H

COUNTY: WAUSHARA

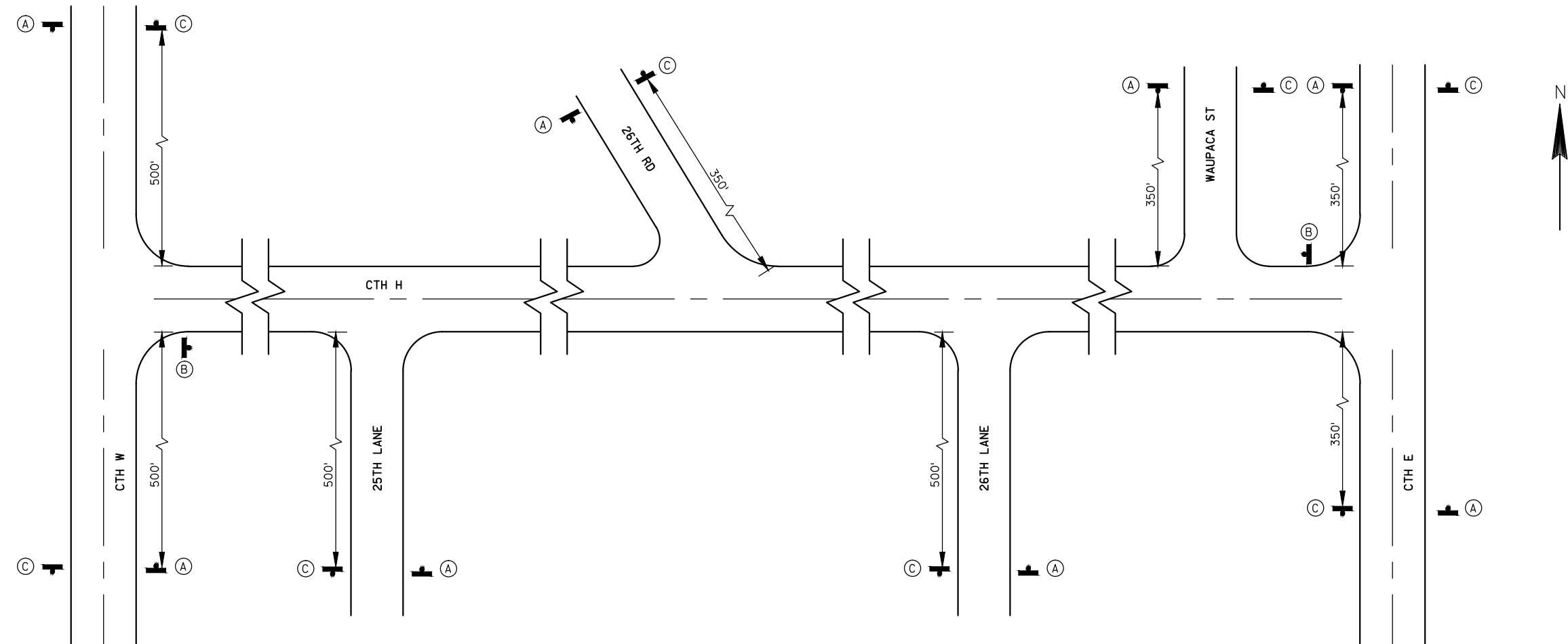
PAVEMENT MARKING

SHEET

E

2

2 |



(B)

**ROAD WORK
NEXT 2 MILES**

G20-1
60" X 24"

(C) **END
ROAD WORK**
G20-2A
48" X 24"

TRAFFIC CONTROL GENERAL NOTES

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED.

A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK ZONES" IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER. THE COST OF FLAGGING SHALL BE INCIDENTAL TO OTHER ITEMS IN THE CONTRACT.

ALL SIGN LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS WILL BE DETERMINED BY FIELD CONDITIONS AND BY THE ENGINEER IN THE FIELD.

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

TRAFFIC CONTROL SIGNS SHALL BE COVERED OR REMOVED WHEN NOT APPLICABLE OR AS DIRECTED BY THE ENGINEER. THE COST FOR COVERING SIGNS SHALL BE INCIDENTAL TO TRAFFIC CONTROL

SEE S.D.D. "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS) FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.

DATE 21JAN15		E S T I M A T E O F Q U A N T I T I E S			
LINE				6910-00-70	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	201.0205	Grubbing	STA	10.000	10.000
0020	201.0220	Grubbing	ID	24.000	24.000
0030	204.0115	Removing Asphaltic Surface Butt Joints	SY	225.000	225.000
0040	204.9060.S	Removing (item description) 01.	EACH	6.000	6.000
0050	205.0100	Removing Existing Pipe End Excavation Common **p**	CY	3,037.000	3,037.000
0060	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 6910-00-70	LS	1.000	1.000
0070	213.0100	Finishing Roadway (project) 01. 6910-00-70	EACH	1.000	1.000
0080	305.0110	Base Aggregate Dense 3/4-Inch	TON	825.000	825.000
0090	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	475.000	475.000
0100	325.0100	Pulverize and Relay **p**	SY	40,600.000	40,600.000
0110	416.1010	Concrete Surface Drains	CY	6.000	6.000
0120	440.4410.S	Incentive IRI Ride	DOL	7,950.000	7,950.000
0130	455.0105	Asphaltic Material PG58-28	TON	180.000	180.000
0140	460.1100	HMA Pavement Type E-0.3	TON	3,150.000	3,150.000
0150	460.2000	Incentive Density HMA Pavement	DOL	2,010.000	2,010.000
0160	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	13.000	13.000
0170	521.0115	Culvert Pipe Corrugated Steel 15-Inch	LF	307.000	307.000
0180	521.0118	Culvert Pipe Corrugated Steel 18-Inch	LF	18.000	18.000
0190	521.1015	Apron Endwalls for Culvert Pipe Steel 15-Inch	EACH	22.000	22.000
0200	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	4.000	4.000
0210	522.0112	Culvert Pipe Reinforced Concrete Class III 12-Inch	LF	58.000	58.000
0220	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	2.000	2.000
0230	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	1,910.000	1,910.000
0240	606.0200	Riprap Medium	CY	38.000	38.000
0250	619.1000	Mobilization	EACH	1.000	1.000
0260	621.0100	Landmark Reference Monuments	EACH	4.000	4.000
0270	624.0100	Water	MGAL	200.000	200.000
0280	625.0500	Salvaged Topsoil **p**	SY	32,450.000	32,450.000
0290	627.0200	Mulching **p**	SY	25,500.000	25,500.000
0300	628.1504	Silt Fence	LF	1,200.000	1,200.000
0310	628.1520	Silt Fence Maintenance	LF	150.000	150.000
0320	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0330	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0340	628.2004	Erosion Mat Class I Type B	SY	7,025.000	7,025.000
0350	628.7555	Culvert Pipe Checks	EACH	24.000	24.000
0360	628.7570	Rock Bags	EACH	470.000	470.000
0370	629.0210	Fertilizer Type B **p**	CWT	26.000	26.000
0380	630.0130	Seeding Mixture No. 30 **p**	LB	750.000	750.000
0390	630.0200	Seeding Temporary **p**	LB	560.000	560.000
0400	633.5200	Markers Culvert End	EACH	12.000	12.000
0410	642.5001	Field Office Type B	EACH	1.000	1.000
0420	643.0100	Traffic Control (project) 01. 6910-00-70	EACH	1.000	1.000
0430	643.0900	Traffic Control Signs	DAY	900.000	900.000
0440	645.0120	Geotextile Fabric Type HR	SY	180.000	180.000
0450	646.0103	Pavement Marking Paint 4-Inch	LF	34,240.000	34,240.000
0460	648.0100	Locating No-Passing Zones	MI	2.000	2.000

DATE 21JAN15		E S T I M A T E O F Q U A N T I T I E S			
LINE				6910-00-70	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0470	649.0100	Temporary Pavement Marking 4-Inch	LF	836.000	836.000
0480	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	1,910.000	1,910.000
0490	650.8000	Construction Staking Resurfacing	LF	10,450.000	10,450.000
0500	650.9910	Reference Construction Staking Supplemental Control (project) 01. 6910-00-70	LS	1.000	1.000
0510	650.9920	Construction Staking Slope Stakes	LF	10,450.000	10,450.000
0520	690.0150	Sawing Asphalt	LF	260.000	260.000
0530	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0540	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0550	SPV.0060	Special 01. Reestablish Section Corner Monuments	EACH	1.000	1.000
0560	SPV.0120	Special 01. Water For Seeded Areas	MGAL	200.000	200.000
0570	SPV.0180	Special 01. QMP Pulverize And Relay Compaction	SY	40,600.000	40,600.000

3

CLEARING AND GRUBBING

STATION TO STATION	DIR	ROADWAY	* CLEARING STA	* CLEARING ID	201.0205 GRUBBING STA	201.0220 GRUBBING ID
CATEGORY 0010						
23+85	RT	CTH H	-	24	-	24
35+00 - 36+00	RT	CTH H	1	-	1	-
61+00 - 63+00	LT	CTH H	2	-	2	-
71+00 - 74+00	LT	CTH H	3	-	3	-
97+00 - 101+00		CTH H	4	-	4	-

PROJECT TOTALS10*24*1024

*WORK DONE BY OTHERS

EARTHWORK SUMMARY

LOCATION	STATION TO STATION	205.0100 COMMON EXCAVATION CUT (2)	SALVAGED / UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13)	MASS ORDINATE +/- (14)
						FACTOR 1.25	
CTH H	14+25 - 115+50	3,037	0	3,037	1,283	1,604	1,434

PROJECT TOTALS3,03703,0371,2831,6041,434

- 2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS NOT INCLUDED IN CUT.
5) AVAILABLE MATERIAL = CUT
13) EXPANDED FILL FACTOR = 1.25
14) PLUS MASS ORDINATE QUANTITY INDICATES AN EXCESS OF MATERIAL. MINUS
MASS ORDINATE INDICATES A SHORTAGE OF MATERIAL.

ASPHALTIC ITEMS

STATION TO STATION	ROADWAY	455.0105 ASPHALTIC MATERIAL PG58-28	460.1100 HMA PAVEMENT TYPE E-0.3	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
		TON	TON	TON
CATEGORY 0010				
11+00 - 55+00	CTH H	70	1,279	5
55+00 - 100+00	CTH H	77	1,395	0
100+00 - 115+50	CTH H	26	468	6

PROJECT TOTALS1733,14211

ROUNDED TOTALS1803,15013

REMOVING ASPHALTIC SURFACE BUTT JOINTS

STATION TO STATION	ROADWAY	204.0115
		SY
CATEGORY 0010		
11+00 - 55+00	CTH H	60
55+00 - 100+00	CTH H	85
100+00 - 115+50	CTH H	80

PROJECT TOTALS225

REMOVING EXISTING PIPE END

STATION	DIR	ROADWAY	204.9060.S.01 REMOVING EXISTING PIPE END EACH	COMMENTS
CATEGORY 0010				
32+78	LT	CTH H	1	REMOVE 2'
40+47	LT	CTH H	1	REMOVE 2'
40+47	RT	CTH H	1	REMOVE 2'
93+00	RT	CTH H	1	REMOVE 2'
107+38	LT	CTH H	1	REMOVE 2'
107+38	RT	CTH H	1	REMOVE 2'

PROJECT TOTALS6

BASE AGGREGATE DENSE

STATION TO STATION	ROADWAY	305.0110 3/4-INCH		305.0120
		SHOULDER	DRIVES	1 1/4-INCH
		TON	TON	TON
CATEGORY 0010				
11+00 - 55+00	CTH H	340	19	46
55+00 - 100+00	CTH H	293	26	409
100+00 - 115+50	CTH H	121	19	14

SUBTOTALS75364468

PROJECT TOTALS817468

ROUNDED TOTALS825475

PULVERIZE AND RELAY

STATION TO STATION	ROADWAY	325.0100 PULVERIZE AND RELAY	624.0100 WATER	SPV.0180.01 QMP PULVERIZE AND RELAY COMPACTION
		SY	MGAL	SY
CATEGORY 0010				
11+00 - 55+00	CTH H	16,927	85	16,927
55+00 - 100+00	CTH H	17,529	88	17,529
100+00 - 115+50	CTH H	6,090	30	6,090

PROJECT TOTALS40,54620340,546

ROUNDED TOTALS40,60020040,600

3

CULVERT PIPE CROSSDRAIN EXTENSIONS, DRIVEWAY CULVERTS, AND ENDWALLS											
STATION	ROADWAY	DIR	521.0115	521.0118			521.1015	521.1018	522.0112	522.1012	633.5200
			CULVERT PIPE CORRUGATED STEEL		THICKNESS		APRON ENDWALLS FOR CULVERT PIPE STEEL		CULVERT PIPE REINFORCED CONCETE CLASS III 12-INCH LF	APRON ENDWALLS FOR CULVERT PIPE REINF CONCRETE 12-INCH EACH	MARKERS CULVERT END
			15-INCH LF	18-INCH LF	STEEL IN	ALUMINUM IN	15-INCH EACH	18-INCH EACH			EACH
CATEGORY 0010											
15+65	CTH H	LT & RT	---	6	0.064	0.060	---	2	---	---	2
32+78	CTH H	LT & RT	6	---	0.064	0.060	2	---	---	---	2
40+47	CTH H	RT	---	12	0.064	0.060	---	2	---	---	2
48+63	CTH H	RT	4	---	0.064	0.060	2	---	---	---	2
67+75	CTH H	RT	40	---	0.064	0.060	2	---	---	---	---
75+85	CTH H	RT	36	---	0.064	0.060	2	---	---	---	---
80+75	CTH H	LT	36	---	0.064	0.060	2	---	---	---	---
84+25	CTH H	LT	36	---	0.064	0.060	2	---	---	---	---
93+00	CTH H	LT & RT	8	---	0.064	0.060	2	---	---	---	2
96+05	CTH H	RT	52	---	0.064	0.060	2	---	---	---	---
102+65	CTH H	RT	---	---	---	---	---	---	58	2	---
107+33.5	CTH H	---	39	---	0.064	0.060	2	---	---	---	---
107+38	CTH H	LT & RT	16	---	0.064	0.060	2	---	---	---	2
107+65	CTH H	LT	34	---	0.064	0.060	2	---	---	---	---
PROJECT TOTALS			307	18			22	4	58	2	12

CONCRETE CURB AND GUTTER					
STATION TO STATION	DIR	ROADWAY	601.0557 6-INCH SLOPED 36-INCH TYPE D LF		
CATEGORY 0010					
27+65 - 30+00	RT	CTH H	235		
59+00 - 61+25	RT	CTH H	225		
59+25 - 60+75	LT	CTH H	150		
64+00 - 70+75	RT	CTH H	675		
73+25 - 75+50	RT	CTH H	225		
96+50 - 100+50	RT	CTH H	400		
PROJECT TOTALS			1,910		

LANDSCAPING ITEMS						
STATION TO STATION	ROADWAY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0200 SEEDING TEMPORARY LB
CATEGORY 0010						
11+00 - 55+00	CTH H	9,450	8,000	7.9	226	169
55+00 - 100+00	CTH H	11,900	8,850	9.5	270	203
100+00 - 115+50	CTH H	4,600	3,600	3.5	101	76
UNDISTRIBUTED		6,500	5,100	5.2	150	110
PROJECT TOTALS		32,450	25,550	26.1	747	558
ROUNDED TOTALS		32,450	25,550	26.0	750	560

CONCRETE SURFACE DRAINS					
STATION	ROADWAY	DIR	416.1010 CONCRETE SURFACE DRAINS CY	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE FABRIC TYPE HR SY
CATEGORY 0010					
30+00	CTH H	RT	1.0	---	9
60+75	CTH H	LT	1.0	1.5	16
61+25	CTH H	RT	1.0	---	9
70+75	CTH H	RT	0.9	1.5	8
75+50	CTH H	RT	0.7	---	7
96+50	CTH H	RT	0.7	1.5	14
100+50	CTH H	RT	0.7	1.5	14
PROJECT TOTALS			6	6	77
ROUNDED TOTALS			6	6*	80*

PAVEMENT MARKING					
STATION TO STATION	ROADWAY	646.0103 PAINT 4-INCH (WHITE) LF (YELLOW) LF		649.0100 TEMPORARY PAVEMENT MARKING 4-INCH LF	
CATEGORY 0010					
10+00 - 55+00	CTH H	8,975	5,545		
55+00 - 100+00	CTH H	8,780	4,655		
100+00 - 115+75	CTH H	3,185	3,100		
UNDISTRIBUTED		---		836	
SUBTOTALS		20,940	13,300	836	
PROJECT TOTALS		34,240		836	

* ADDITIONAL QUANTITY LISTED IN "EROSION CONTROL" TABLE

PROJECT NO: 6910-00-70	HWY: CTH H	COUNTY: WAUSHARA	MISCELLANEOUS QUANTITIES	SHEET	E
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EROSION CONTROL

STATION TO STATION	ROADWAY	606.0200 RIPRAP MEDIUM CY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2004 EROSION MAT CLASS I TYPE B SY	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	645.0120 GEOTEXTILE FABRIC TYPE HR SY
CATEGORY 0010								
11+00 - 55+00	CTH H	-	-	-	1,450	-	207	-
55+00 - 100+00	CTH H	-	725	75	3,050	-	197	-
100+00 - 115+50	CTH H	-	-	-	1,070	-	53	-
15+65	CTH H	5	60	-	8	3	-	15
32+78	CTH H	4	60	-	6	3	-	12
40+47	CTH H	5	60	-	8	3	-	15
48+63	CTH H	4	60	-	6	3	-	12
93+00	CTH H	4	60	-	6	3	-	12
107+33.5	CTH H	4	-	-	6	3	-	12
107+38	CTH H	4	60	-	6	3	-	12
UNDISTRIBUTED		2	115	75	1,410	3	-	7

PROJECT TOTALS 32 1,200 150 7,026 24 457 97

ROUNDED TOTALS 32* 1,200 150 7,025 24 470 100*

* ADDITIONAL QUANTITY LISTED IN "CONCRETE SURFACE DRAINS" TABLE

SAWING ASPHALT

STATION TO STATION	ROADWAY	690.0150 LF
CATEGORY 0010		
11+00 - 55+00	CTH H	80
55+00 - 100+00	CTH H	60
100+00 - 115+50	CTH H	120

PROJECT TOTALS 260

CONSTRUCTION STAKING

STATION TO STATION	ROADWAY	650.5500 CURB GUTTER AND CURB & GUTTER LF	650.8000 RESURFACING REFERENCE LF	650.9910 SUPPLEMENTAL CONTROL LS	650.9920 SLOPE STAKES LF
CATEGORY 0010					
11+00 - 55+00	CTH H	235	4,400	1	4,400
55+00 - 100+00	CTH H	1,625	4,500		4,500
100+00 - 115+50	CTH H	50	1,550		1,550

PROJECT TOTALS 1,910 10,450 1 10,450

TRAFFIC CONTROL

LOCATION	EST. SERVICE PERIOD	643.0900 NO SIGNS DAYS
CATEGORY 0010		
CTH W	50	4 200
CTH H	50	2 100
25TH LANE	50	2 100
26TH ROAD	50	2 100
26TH LANE	50	2 100
WAUPACA STREET	50	2 100
CTH E	50	4 200

PROJECT TOTALS 900

LOCATING NO-PASSING ZONES

STATION TO STATION	648.0100 MILES
CATEGORY 0010	
11+00 - 55+00	0.83
55+00 - 100+00	0.85
100+00 - 115+50	0.29

PROJECT TOTALS 1.97

ROUNDED TOTALS 2

LANDMARK REFERENCE MONUMENTS AND REESTABLISH SECTION CORNER MONUMENTS

STATION	ROADWAY	621.0100 LANDMARK REFERENCE MONUMENTS EACH	SPV.0060.01 REESTABLISH SECTION CORNER MONUMENTS EACH	COMMENTS
CATEGORY 0010				
36+22	CTH H	4	1	BERNSTEN NAIL

PROJECT TOTALS 4 1

WATER FOR SEEDED AREAS

STATION TO STATION	SPV.0120.01 MGAL
CATEGORY 0010	
11+00 - 115+50	200

PROJECT TOTALS 200

Conventional Signs and Abbreviations

	SECTION LINE	AC	ACRES	R	RADIUS
	QUARTER LINE	Δ	CENTRAL ANGLE	R.	RANGE
	TOWNSHIP AND RANGE LINE	C/L	CENTERLINE	R/L	REFERENCE LINE
	PROPOSED OR NEW CENTERLINE	COR.	CORNER	R/W	RIGHT OF WAY
	PROPOSED OR NEW R/W LINE	CTH	COUNTY TRUNK HIGHWAY	1/4 LINE	QUARTER LINE
	EXISTING R/W LINE	D	DEGREE OF CURVE	1/8 LINE	SIXTEENTH LINE
	LOT LINE	E	EAST	S.	SOUTH
	PROPERTY LINE	L	LENGTH OF CURVE	SEC	SECTION
	COUNTY LINE LIMITS	LC	LONG CHORD	SEC LINE	SECTION LINE
	SLOPE INTERCEPTS	LCB	LONG CHORD BEARING	STH	STATE TRUNK HIGHWAY
	EXISTING MONUMENTATION	MI	MILE	SF	SQUARE FEET
	FENCE	N	NORTH	STA	STATION
	SECTION OR QUARTER CORNER	N.T.S.	NOT TO SCALE	T	TOWN
	TELEPHONE	PC	POINT OF CURVATURE	T	TANGENT LENGTH OF CURVE
	GAS	PI	POINT OF INTERSECTION	TI	TEMPORARY INTEREST
	WATER	PT	POINT OF TANGENCY	USH	UNITED STATES HIGHWAY
	ELECTRIC	PLE	PERMANENT LIMITED EASEMENT	W.	WEST
	FIBER OPTIC	P4L	PROPERTY LINE		
	SANITARY				
	STORM SEWER				
	NO ACCESS (BY ACQUISITION)				
	NO ACCESS (BY STATUTORY AUTHORITY)				
	NO ACCESS (BY PREVIOUS PROJECT)				
	TEMPORARY INTEREST				
	PERMANENT LIMITED EASEMENT				
	FEE TITLE				
	RIGHT-OF-WAY TYPE 2 MONUMENTS SET AT NEWLY ACQUIRED R/W ANGLE POINTS				
	R/W BOUNDARY POINT				
	PARCEL NUMBER				
	UTILITY PARCEL NUMBER				

BEGIN RELOCATION ORDER
STATION 210+00.00

2586.97 FEET SOUTH OF AND
33.72 FEET WEST OF THE N 1/4
CORNER, SEC 6, T19N, R12E, TOWN
OF LEON, WAUSHARA COUNTY, WISCONSIN
Y: 160535.551
X: 426612.047

NOTES:

POSITION SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, WAUSHARA COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

REFERENCE LINE ON THIS RIGHT-OF-WAY PLAT IS BASED UPON CENTERLINE OF EXISTING RIGHT-OF-WAY AND IS NOT THE CONSTRUCTION REFERENCE LINE.

EXISTING RIGHT-OF-WAY IS BASED UPON EXISTING MONUMENTATION LOCATED ALONG THE CTH-H CORRIDOR FROM WAUSHARA COUNTY CERTIFIED SURVEY MAP 1175, 1583, 1677, 2517, 3669, 3670, 4755, 4775, 5762, AND VILLAGE OF PINE RIVER PLAT.

RIGHT OF WAY MONUMENTS ARE TYPE 2 (TYPICALLY 3/4-INCH BY 24-INCH REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

STATION OFFSET VALUES OF PERMANENT AND TEMPORARY LIMITED EASEMENTS WILL REFLECT BOTH RIGHT-OF-WAY REFERENCE LINE AND CONSTRUCTION REFERENCE LINES VALUES.

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

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

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

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

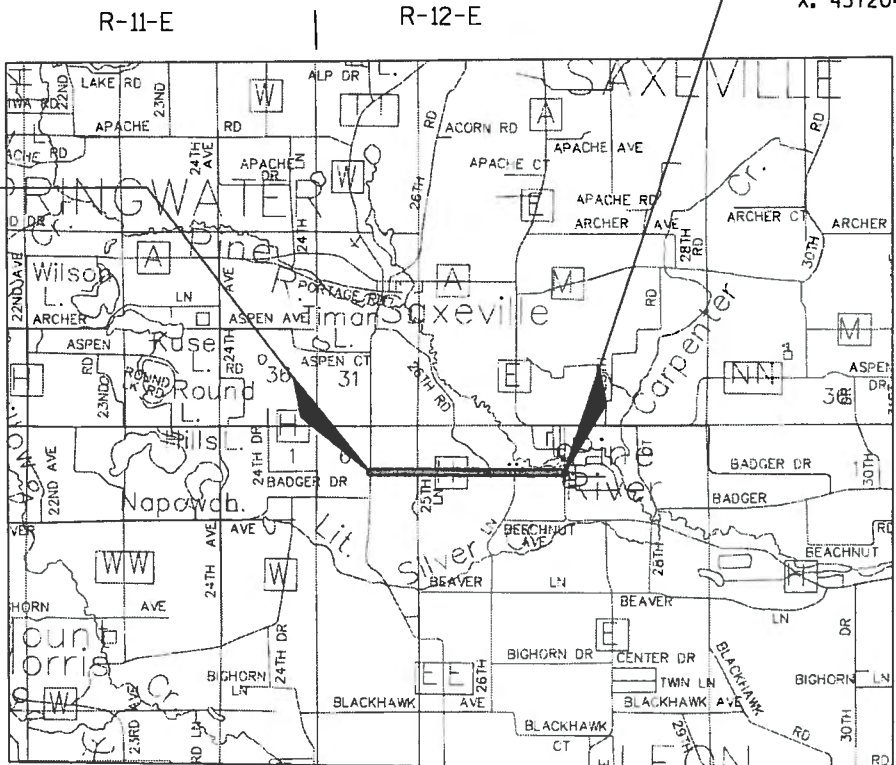
A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

	COMPENSABLE	NON-COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		

END RELOCATION ORDER

STATION 315+94.36

49.20 FEET NORTH OF AND 2664.20 FEET
EAST OF THE WEST 1/4 CORNER, SEC 4,
T19N, R12E, TOWN OF LEON, WAUSHARA
COUNTY, WISCONSIN
Y: 160542.594
X: 437204.719



LAYOUT
SCALE 0 1/2 1 MI.
TOTAL NET LENGTH OF CENTERLINE = 2.01 MI.

R/W PROJECT NUMBER 6910-00-00	SHEET NUMBER 4.1	TOTAL SHEETS 12
FEDERAL PROJECT NUMBER		
PLAT OF RIGHT-OF-WAY REQUIRED FOR CTH W - PINE RIVER CTH W TO CTH E CTH H TOWN OF LEON WAUSHARA COUNTY		
CONSTRUCTION PROJECT NUMBER 6910-00-70		



ACCEPTED FOR
WAUSHARA COUNTY

6-17-14 Tom Dahlke
DATE Hwy. Commissioner
(Signature & Title of Official)

ORIGINAL PLANS PREPARED BY

OMNI
ASSOCIATES
APPLETON, WISCONSIN

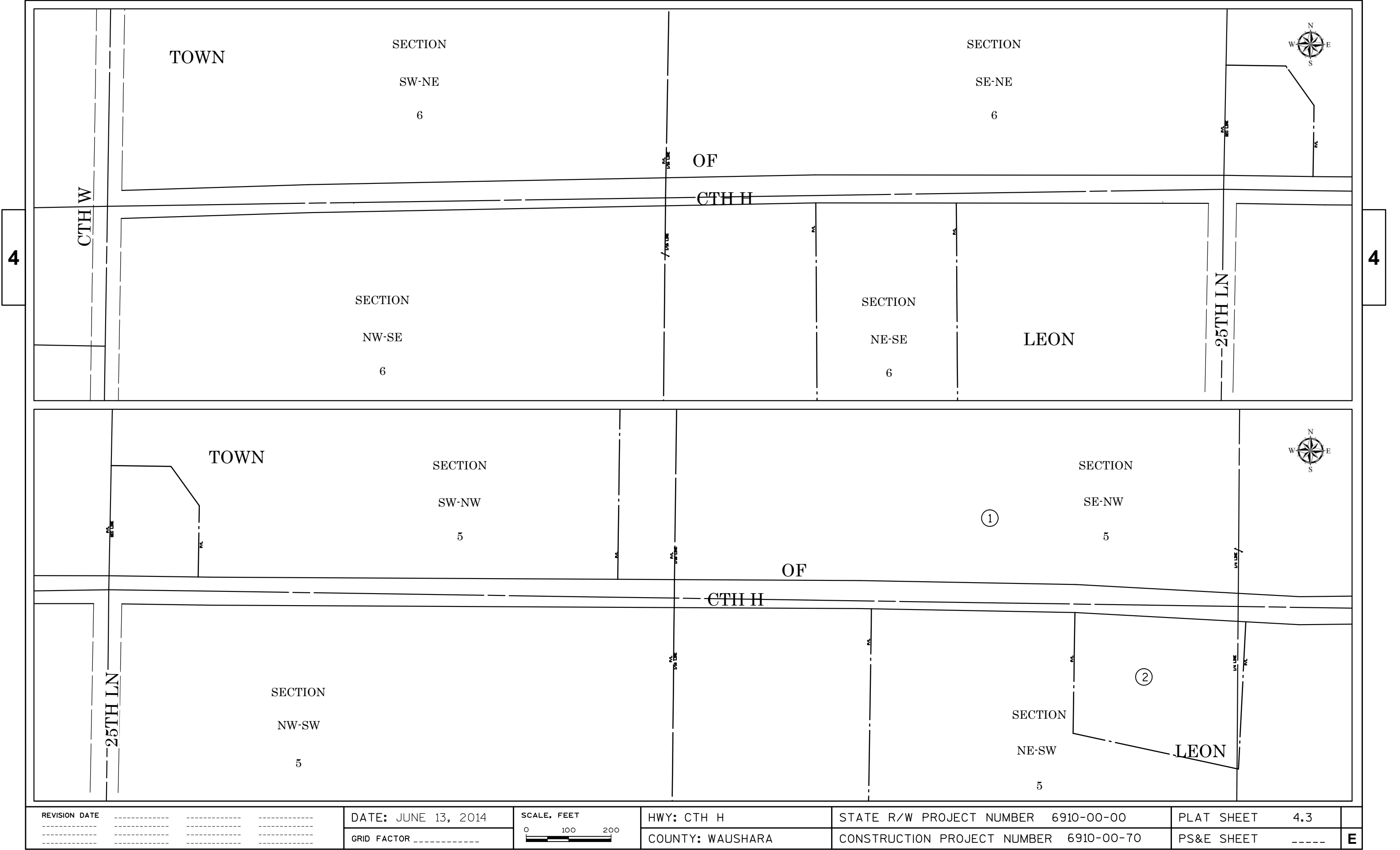


6-13-2014 David A. Yurk
(Date) (Signature)

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY
AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND
INTEREST TO THE COUNTY OF WAUSHARA.

PARCEL NUMBER	PLAT SHEET NUMBER	OWNER	INT. REQD.	PLE AREA	TLE Area
1	4.8, 4.9	DAVID FRATER LIVING TRUST DATED AUGUST 15, 2001	PLE	7185 SQ FT	--
2	4.8	REINE K. FREDERICK, TRUSTEE OF THE REINE K. FREDERICK REVOCABLE TRUST DATED MAY 10, 2002 & ERNA R. FREDERICK, TRUSTEE OF THE ERNA B. REVOCABLE TRUST DATED JUNE 14, 2002, TENANTS IN COMMON WITH LIFE ESTATE TO THE REINE K. & ERNA B. FREDERICK	PLE	499 SQ FT	--
3	4.9,4.11,4.12	SORENSEN HILLVIEW JERSEY FARM, INC	PLE/TLE	4915 SQ FT	2421 SQ FT
4	4.10	MARK W. MONTAG & DEBRA D. MONTAG	PLE	327 SQ FT	--
6	4.10	THOMAS L. & JILL H.S. WILLIAMS, JAMES H. & MELISSA A. WILLIAMS, MICHAEL F. RIESER & GWEN ELLEN RIESER, AS TENANTS IN COMMON WITH AN UNDIVIED 1/3 INTEREST	PLE	671 SQ FT	--
8	4.12	SALLY JAYNE SORENSON	TLE	--	2414 SQ FT
90	4.8, 4.9	OPSE-AT&T COMMUNICATIONS	RELEASE OF RIGHTS	--	--
91	4.9	SBA TOWERS IV LLC	RELEASE OF RIGHTS	--	--
92	4.1	ALLIANT ENERGY	RELEASE OF RIGHTS	--	--







HARRISON MONUMENT
FOUND
N=163122.501
E=426645.768

TOWN

SECTION 6

SW-NE

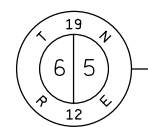
OF

GERALD D. KOVEL

LINE TABLE		
LINE	BEARING	DISTANCE
L-1	N89°07'50"E	8.26'
L-2	N00°52'10"W	3.29'
L-3	N89°07'50"E	33.02'
L-4	S00°55'39"W	29.34'
L-5	N00°55'39"E	36.73'

SE-NE

HARRISON MONUMENT
FOUND
N=160572.050
E=429233.861
STA 236+22.26
O/S 0+00
PI ON R/L



4

BEGIN RELOCATION ORDER

STATION 210+00.00

2586.97 FEET SOUTH OF AND
33.72 FEET WEST OF THE N 1/4
CORNER, SEC 6, T19N, R12E, TOWN
OF LEON, WAUSHARA COUNTY, WISCONSIN
Y=160535.551
X=426612.047

210+26.44
33.00' R/W

PI 214+66.68
Y 160550.157
X 427078.500

214+66.68
33.00' R/W

SLOPE INTERCEPT

STA 223+07.45
O/S 0.00'

N88°12'23"E

440.24'

N88°53'58"E

EXISTING R/W

1194.44'

N88°12'23"E

466.68'

N88°53'58"E

R/W-R/L

220+00

1193.91'

33'

N89°07'50"E

443.18'

N88°53'58"E

CTH H

EXISTING R/W

2630.33' (CORNER TO CORNER)

1193.38'

N88°12'23"E

214+66.48
33.00' R/W

SLOPE INTERCEPT

SEE DETAIL A

JOSEPH R. BIRD &
CARRIE C. BIRD TRUSTEES OF THE
JOSEPH R. BIRD
REVOCABLE LIVING TRUST
DATED MARCH 10, 1999

DETAIL A

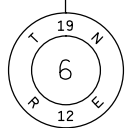
NW-SE

SECTION 6

LEON

NE-SE

LOT 2
CSM 3967



COMPUTED
N=160532.131
E=426603.836

CTH W

1/4 LINE

1/4 LINE



RESET PER TIES
N=157911.981
E=426561.422

BEGIN RELOCATION ORDER
STA 210+00.00

N88°12'23"E 466.68'

R/W-R/L

L-1

N89°07'50"E 2630.33'

L-3

CENTER OF SECTION 6

210+26.44
33.00' R/W

210+23.20
33.00' R/W

REVISION	DATE	BY	CHKD

DATE: JUNE 13, 2014
GRID FACTOR



HWY: CTH H
COUNTY: WAUSHARA

STATE R/W PROJECT NUMBER 6910-00-00
CONSTRUCTION PROJECT NUMBER 6910-00-70

PLAT SHEET 4.5
PS&E SHEET

E

TOWN

SECTION 6

SE-NE

OF

LOWELL D. MILLISOR

DETAIL A



SECTION 5

SW-NW

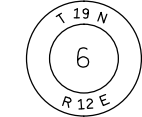
LOT 1
CSM 5762

ROBERT CHRISTENSEN &
JULIE CHRISTENSEN

4

4

COMPUTED
N=160532.131
E=426603.836



PI 226+60.59
Y 160573.090
X 428272.190

226+60.59
33.00' R/W

MATCH STA 223+50

N88°53'58"E 1194.44'

N88°53'58"E 225+00 1193.91'

N89°07'50"E 1193.38'

N88°53'58"E

JOSEPH R. BIRD &
CARRIE C. BIRD TRUSTEES OF THE
JOSEPH R. BIRD
REVOCABLE LIVING TRUST
DATED MARCH 10, 1999

MICHAEL JOHN SCHUSTER,
DAVID E. SCHUSTER &
ALTA M. SCHUSTER

LOT 1
CSM 3859

NE-SE

SECTION 6

LEON

236+22.36
33.00' R/W

S89°56'17"E 962.23'
EXISTING

S89°08'55"E
0.37'

E 1/4 CORNER
SECTION 6

S89°08'55"E
238.09'

S01°05'47"W 33.00'



COMPUTED
N=163125.642
E=429282.736

236+22.26
33.00' R/W

SEE DETAIL A

962.23'

961.67

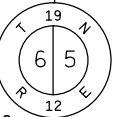
235+00

2630.33' (CENTER TO CORNER)

925.71'

235+86.63
33.00' R/W

HARRISON
MONUMENT
FOUND
N=160572.050
E=429233.861
STA 236+22.26
O/S - 0.00'
PI ON R/L



S89°08'55"E
238.09'

S89°08'55"E R/L
238.39'

S89°08'55"E
5307.24' 1/4 LINE

S89°08'55"E
207.72'

S89°08'55"E
236+53.09
33.00' R/W

MATCH STA 237+75

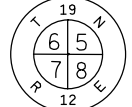
SLOPE INTERCEPT

LINE TABLE

LINE	BEARING	DISTANCE
L-1	S89°34'19"E	35.28'
L-2	N00°39'35"E	33.23'
L-3	S89°34'19"E	30.72'
L-4	S01°05'47"W	33.00'

NW-SW

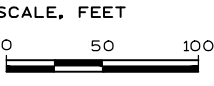
SECTION 5



COMPUTED
N=157935.015
E=429203.502

REVISION	DATE	BY	CHKD

DATE: JUNE 13, 2014
GRID FACTOR



HWY: CTH H
COUNTY: WAUSHARA

STATE R/W PROJECT NUMBER 6910-00-00
CONSTRUCTION PROJECT NUMBER 6910-00-70

PLAT SHEET 4.6
PS&E SHEET

E

TOWN

SECTION 5

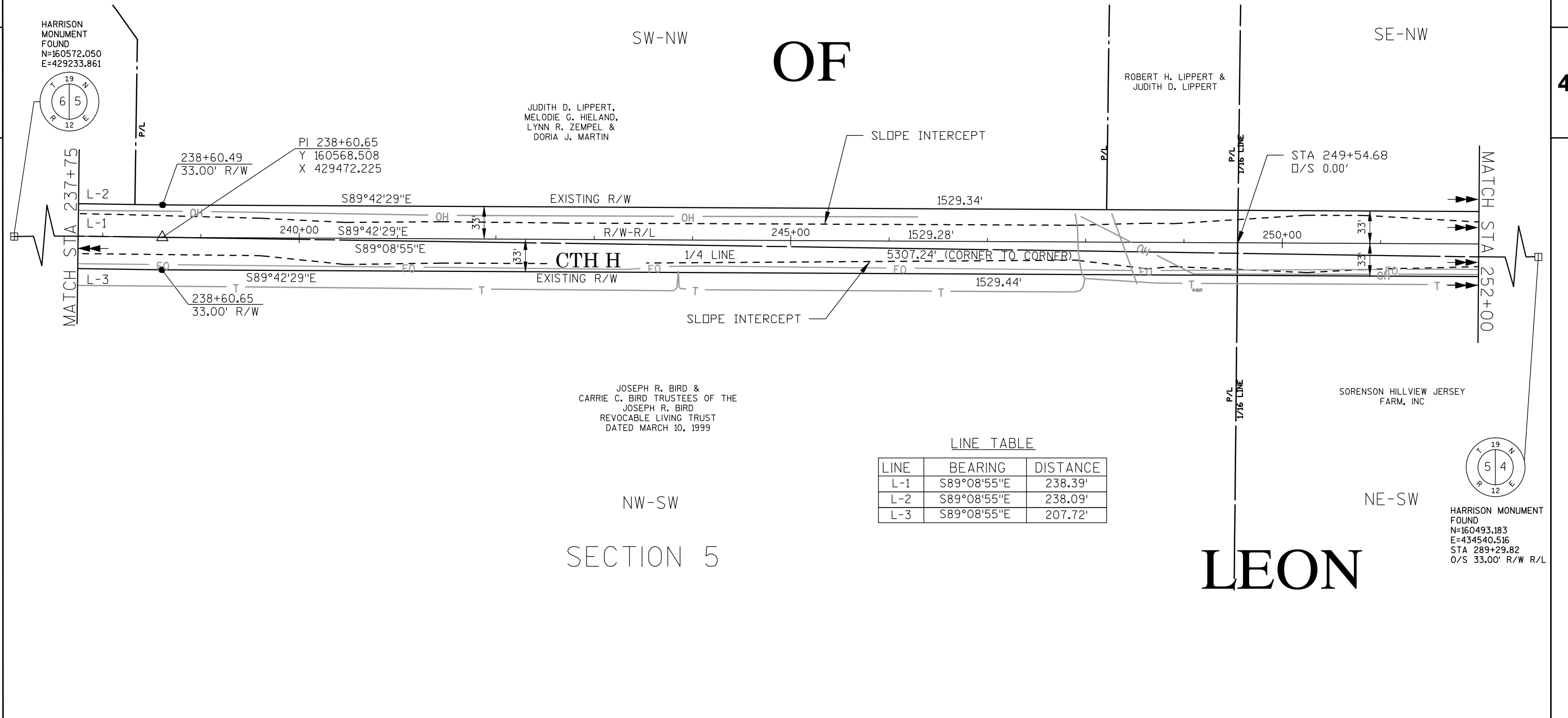
OF

LEON



4

4



REVISION DATE	DATE: JUNE 13, 2014	SCALE, FEET	HWY: CTH H	STATE R/W PROJECT NUMBER 6910-00-00	PLAT SHEET 4.7	
GRID FACTOR			COUNTY: WAUSHARA	CONSTRUCTION PROJECT NUMBER 6910-00-70	PS&E SHEET	E

TOWN

SECTION 5

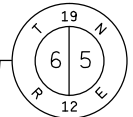
SE-NW OF

SW-NE

①

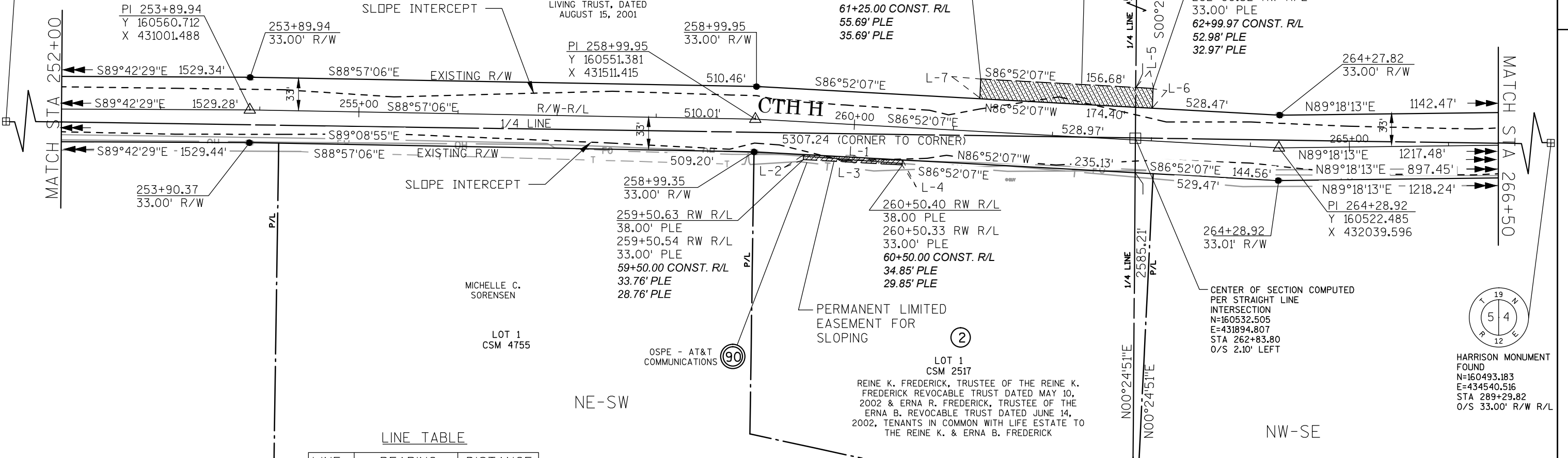
DAVID FRATER
LIVING TRUST, DATED
AUGUST 15, 2001

HARRISON
MONUMENT
FOUND
N=160572.050
E=429233.861



4

4



LINE TABLE

LINE	BEARING	DISTANCE
L-1	N86°52'07\"W	99.79'
L-2	S02°09'44\"W	5.00'
L-3	S86°52'07\"E	99.77'
L-4	N02°25'10\"E	5.00'
L-5	S86°52'07\"E	17.46'
L-6	S01°45'49\"W	20.00'
L-7	N02°31'10\"E\"E	20.00'

LEON

REVISION DATE ----- ----- ----- -----	DATE: JUNE 13, 2014			SCALE, FEET 050100	HWY: CTH H	STATE R/W PROJECT NUMBER 6910-00-00	PLAT SHEET 4.8	E
	GRID FACTOR -----				COUNTY: WAUSHARA	CONSTRUCTION PROJECT NUMBER 6910-00-70	PS&E SHEET -----	

TOWN

LINE TABLE

LINE	BEARING	DISTANCE
L-1	N89°18'13"E	74.55'
L-2	S00°44'33"E	12.47'
L-3	N89°15'27"E	50.00'
L-4	N00°44'33"W	20.00'
L-5	S00°44'33"E	20.00'



SECTION 5

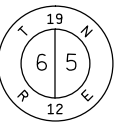
SW-NE

OF

SE-NE

4

HARRISON
MONUMENT
FOUND
N=160572.050
E=429233.861



①

DAVID FRATER LIVING
TRUST, DATED
AUGUST 15, 2001

PERMANENT LIMITED
EASEMENT FOR
SLOPING

271+75.20 RW R/L
53.00' PLE
271+75.22 RW R/L
33.00' PLE
71+75.00 CONST. R/L
56.59' PLE
36.59' PLE

273+60.20 RW R/L
53.00' PLE
273+60.22 RW R/L
33.00' PLE
73+60.00 CONST. R/L
56.44' PLE
36.44' PLE

LOT 10
CSM 3669

MICHAEL J. WEISS &
CYNTHIA J. SCHWINDEN

STA 276+08.90
O/S 0.00'

276+46.39
33.00' R/W

LOT 11
CSM 3669

SLOPE INTERCEPT

EXISTING R/W N89°18'13"E

N89°18'13"E

270+00

R/W-R/L

S89°08'55"E

1218.24'

L-2

EXISTING R/W

1218.24'

L-3

EXISTING R/W

1218.24'

L-4

EXISTING R/W

1218.24'

L-5

EXISTING R/W

1218.24'

L-6

EXISTING R/W

1218.24'

L-7

EXISTING R/W

1218.24'

L-8

EXISTING R/W

1218.24'

L-9

EXISTING R/W

1218.24'

L-10

EXISTING R/W

1218.24'

L-11

EXISTING R/W

1218.24'

L-12

EXISTING R/W

1218.24'

L-13

EXISTING R/W

1218.24'

L-14

EXISTING R/W

1218.24'

L-15

EXISTING R/W

1218.24'

L-16

EXISTING R/W

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L-17

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EXISTING R/W

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L-88

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L-89

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1218.24'

L-90

EXISTING R/W

1218.24'

L-91

EXISTING R/W

1218.24'

L-92

EXISTING R/W

1218.24'

L-93

EXISTING R/W

TOWN



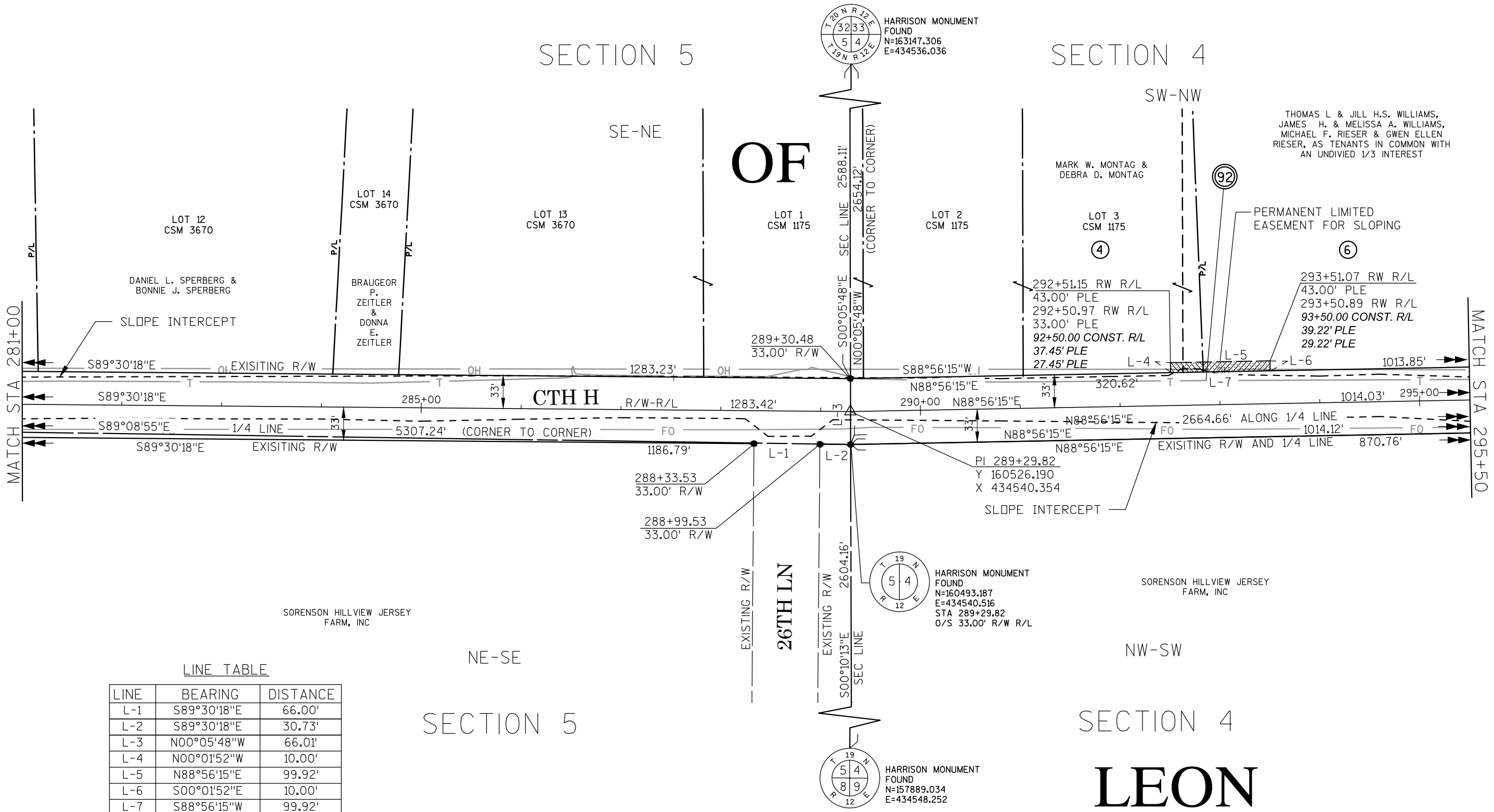
SECTION 5

SECTION 4

OF

4

4

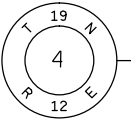


LINE TABLE

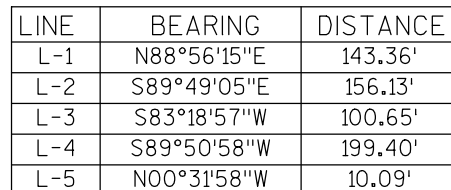
LINE	BEARING	DISTANCE
L-1	S89°30'18"E	66.00'
L-2	S89°30'18"E	30.73'
L-3	N00°05'48"W	66.01'
L-4	N00°01'52"W	10.00'
L-5	N88°56'15"E	99.92'
L-6	S00°01'52"E	10.00'
L-7	S88°56'15"W	99.92'

REVISION DATE ----- ----- -----	DATE: JUNE 13, 2014	SCALE, FEET 0 50 100	HWY: CTH H	STATE R/W PROJECT NUMBER 6910-00-00	PLAT SHEET 4.10	E
	GRID FACTOR -----		COUNTY: WAUSHARA	CONSTRUCTION PROJECT NUMBER 6910-00-70	PS&E SHEET -----	

LEON



SECTION 4

WISDOT/CADDS SHEET 75

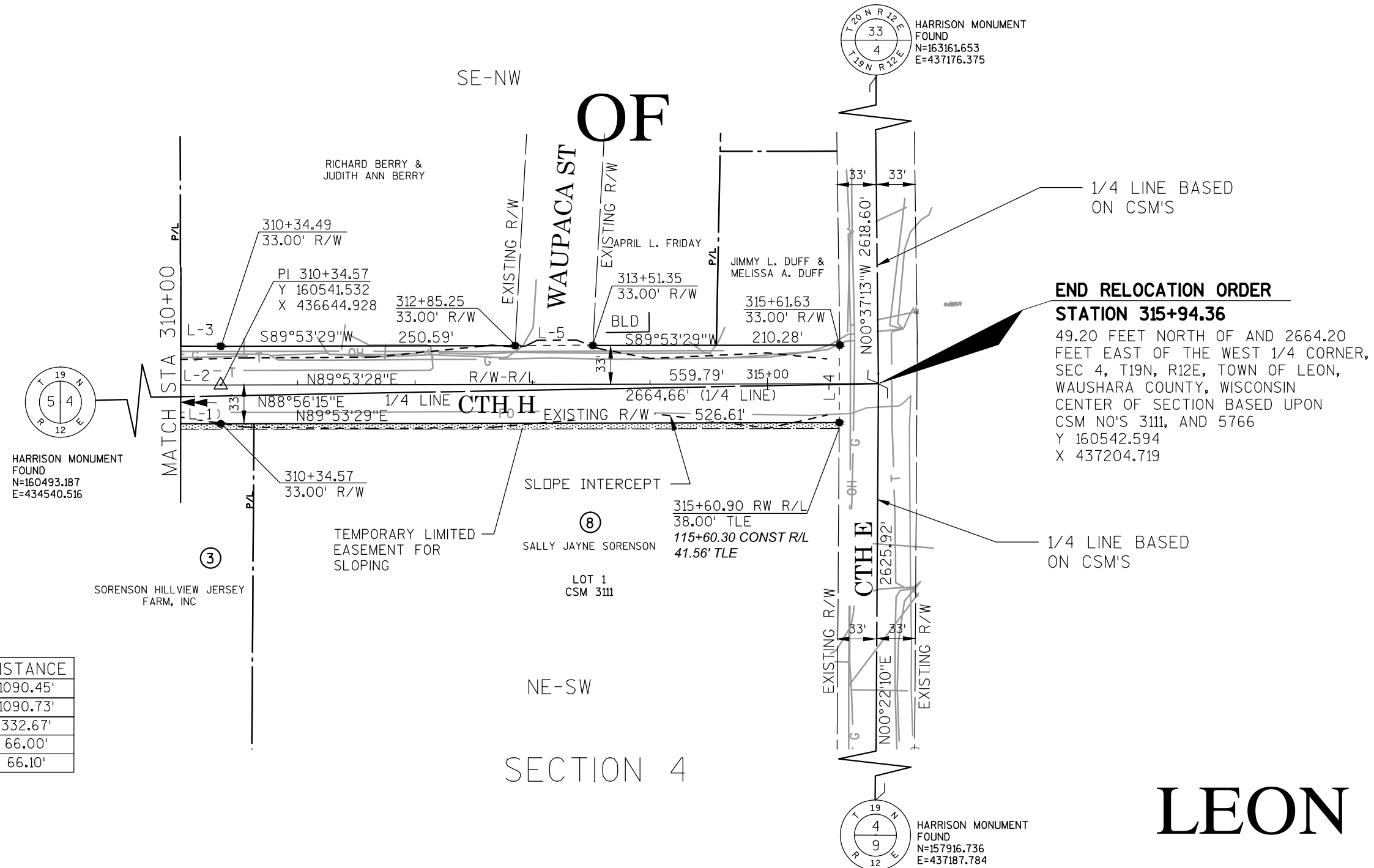
TOWN

SECTION 4



4

4



REVISION	DATE			

DATE	JUNE 13, 2014
GRID FACTOR	

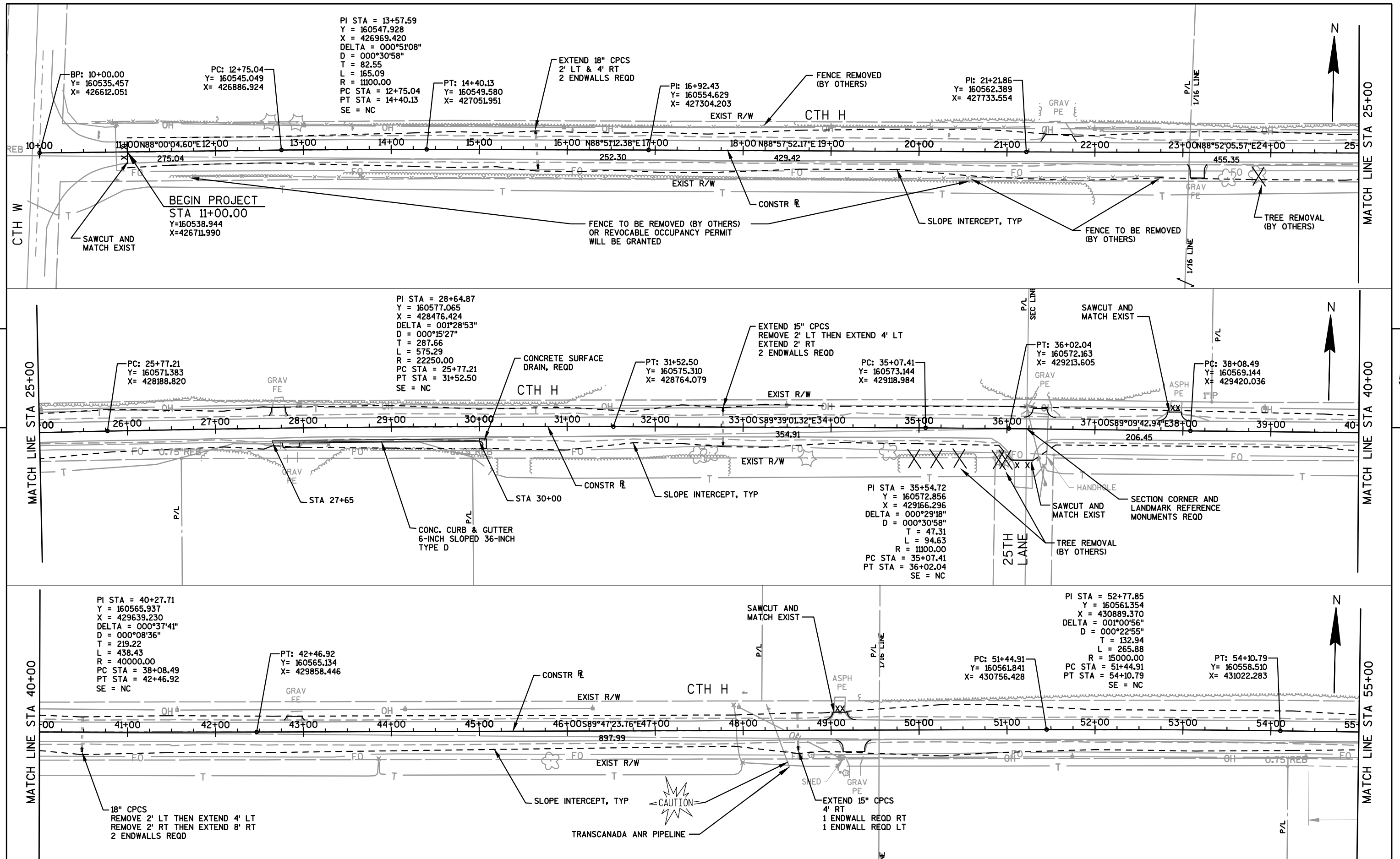
SCALE, FEET
0 50 100

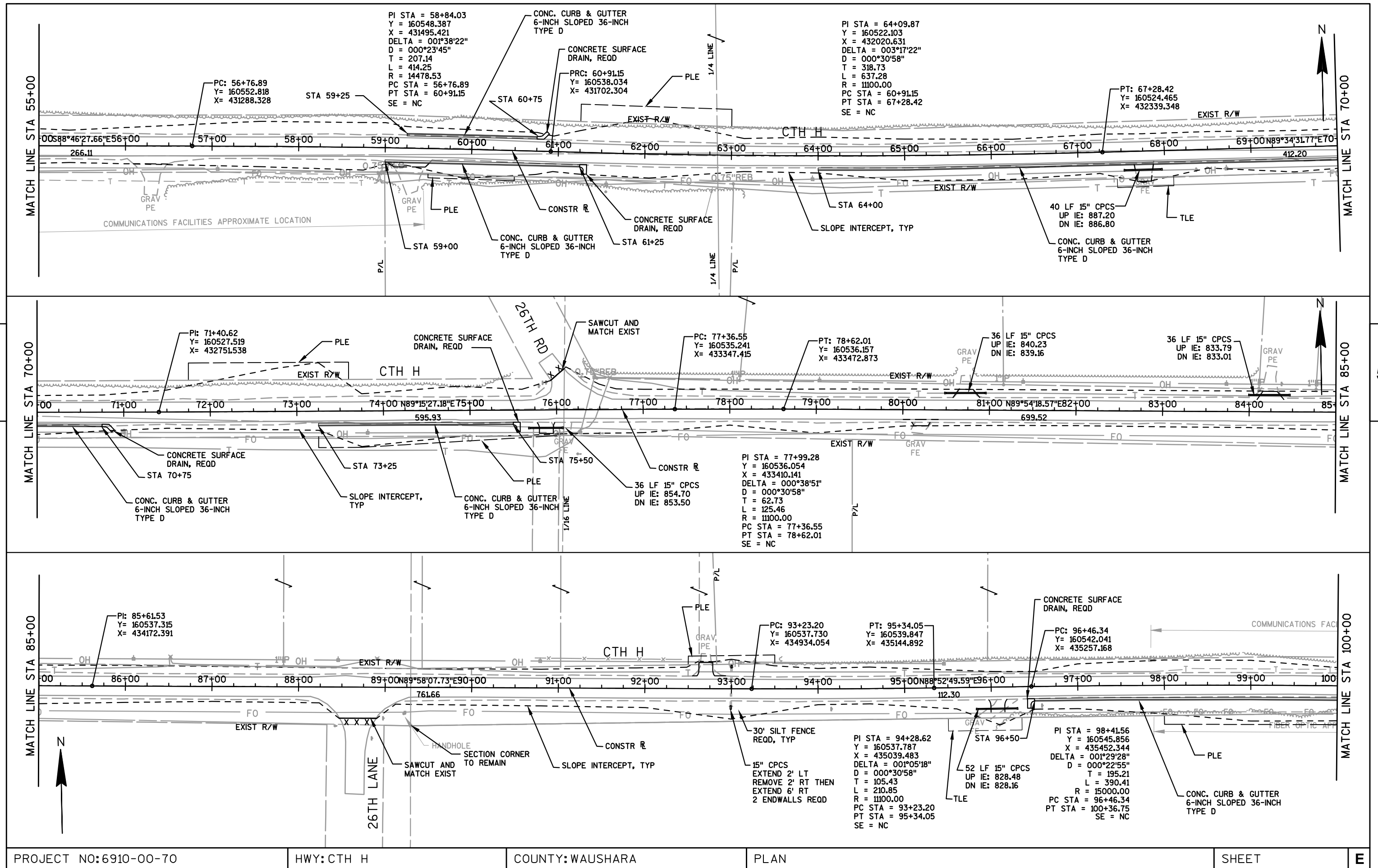
HWY:	CTH H
COUNTY:	WAUSHARA

STATE R/W PROJECT NUMBER	6910-00-00
CONSTRUCTION PROJECT NUMBER	6910-00-70

PLAT SHEET	4.12
PS&E SHEET	-----

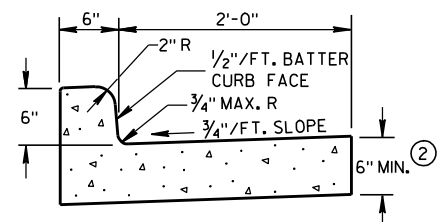
E



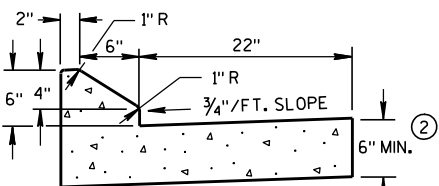


Standard Detail Drawing List

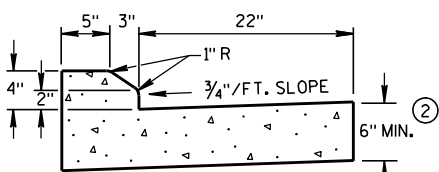
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
14B29-01	SAFETY EDGE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-02A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY



TYPES A & D ①



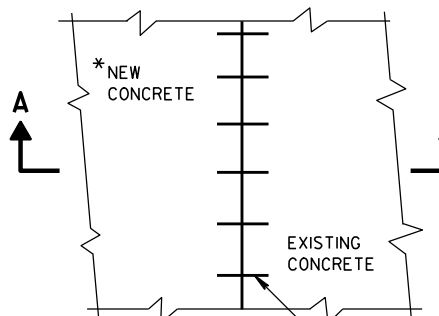
6" SLOPED CURB TYPES G & J ①



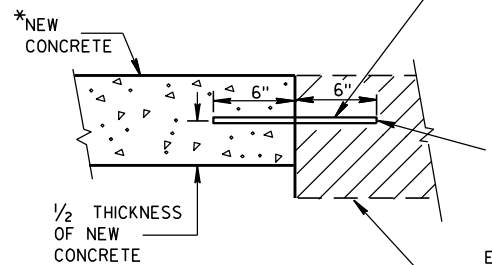
4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

* NEW CURB & GUTTER,
SURFACE DRAINS,
CONCRETE PAVEMENT
OR OTHER NEW CONCRETE.



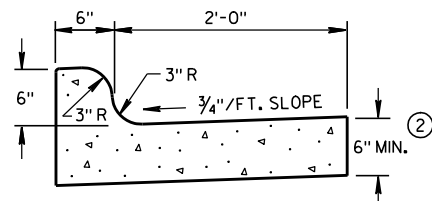
PLAN VIEW

SECTION A-A
TIE BARS DRILLED
INTO EXISTING PAVEMENT

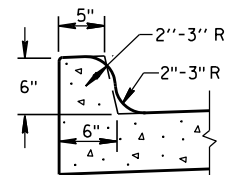
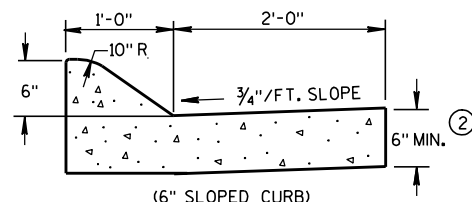
NO. 6 TIE BARS SPACED 2'-6" C-C,
INSTALLED PERPENDICULAR
TO THE LONGITUDINAL JOINT.

MAXIMUM DRILL HOLE
SIZE IS 1/8" GREATER
THAN TIE BAR DIAMETER

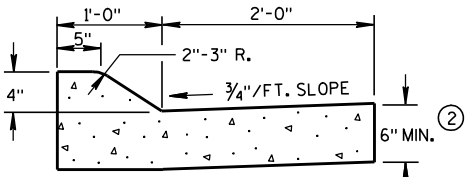
EXISTING
CONCRETE



TYPES K & L ①

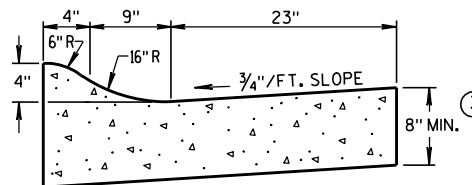
OPTIONAL CURB SHAPE
FOR TYPES K & L ①

(6" SLOPED CURB)



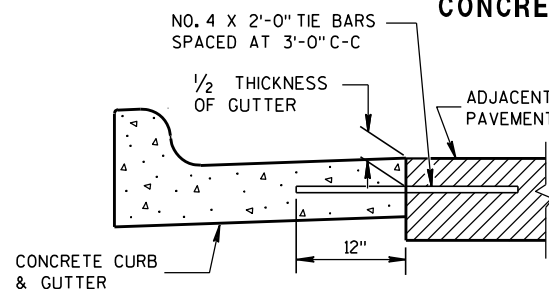
(4" SLOPED CURB)

TYPES A & D ①

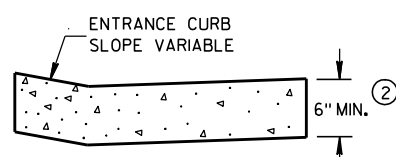


4" SLOPED CURB TYPES R & T ① ④

CONCRETE CURB & GUTTER 36"

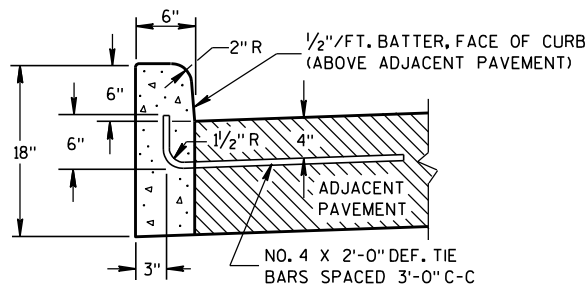


TYPICAL TIE BAR LOCATION ①



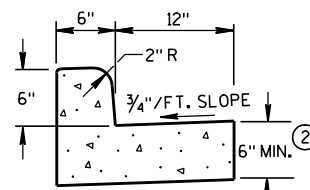
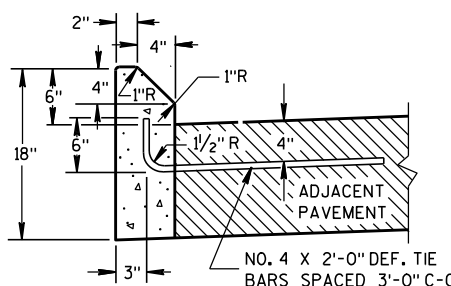
DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)



TYPES A & D ①

CONCRETE CURB

TYPES A & D
CONCRETE CURB & GUTTER 18"

TYPES G & J ①

GENERAL NOTES

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

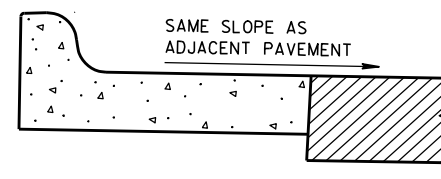
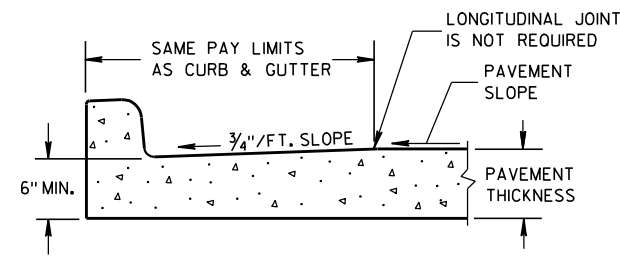
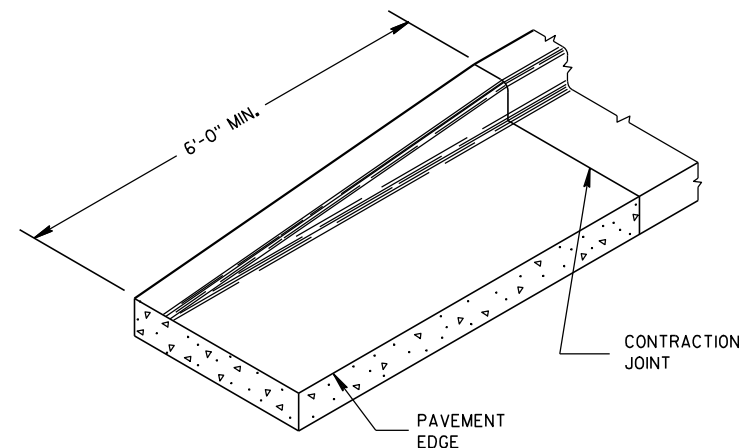
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

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 AND R.
- 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 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.
- ④ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- ⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

REVERSE SLOPE GUTTER ⑤
(TYPICAL FOR ALL CURB & GUTTER TYPES)PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER

END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE
CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/4/08

DATE

FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

6



PLAN VIEW
FLUME AT CURB END

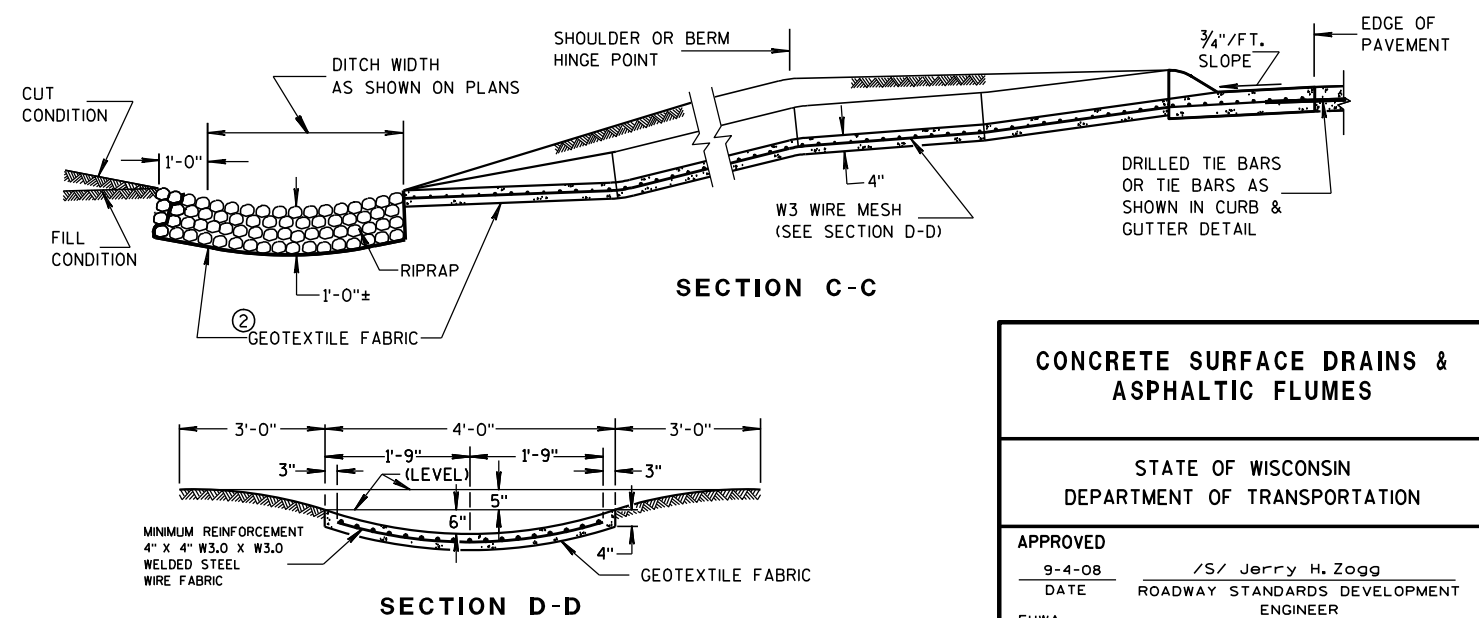


6

S.D.D. 8 D 4-5

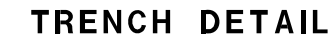
③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

SECTION C-C





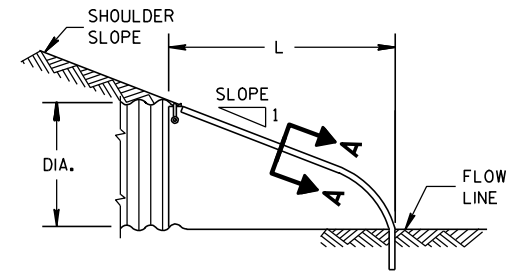
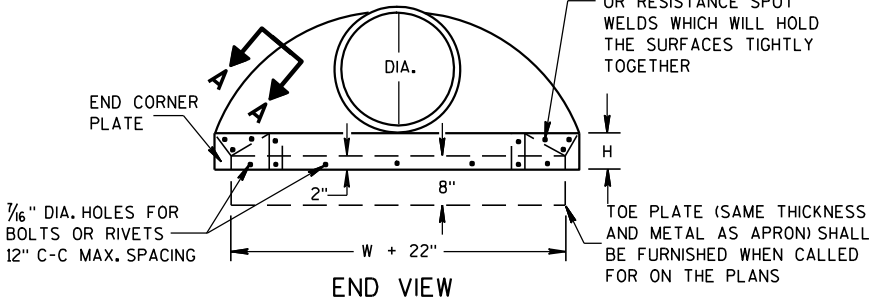
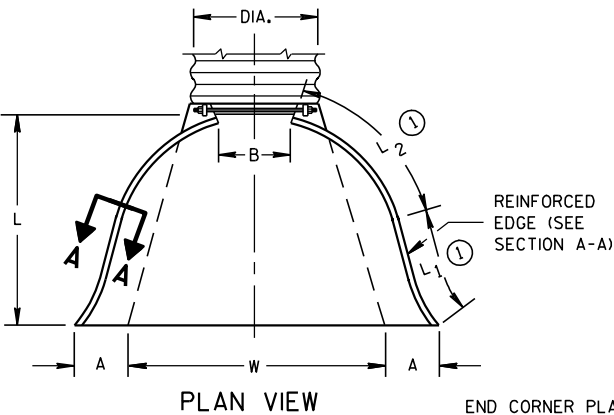
- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1½" X 1½" 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.



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

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

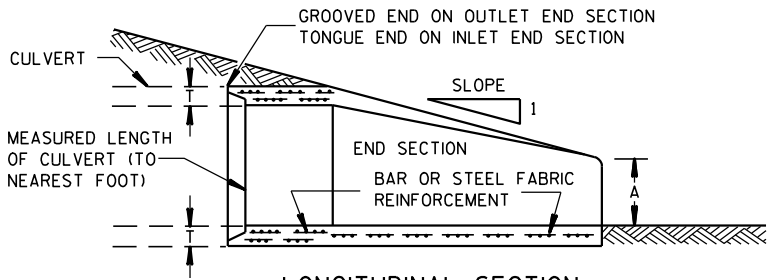
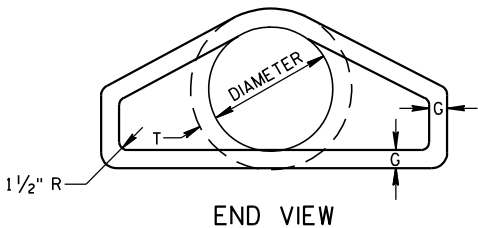
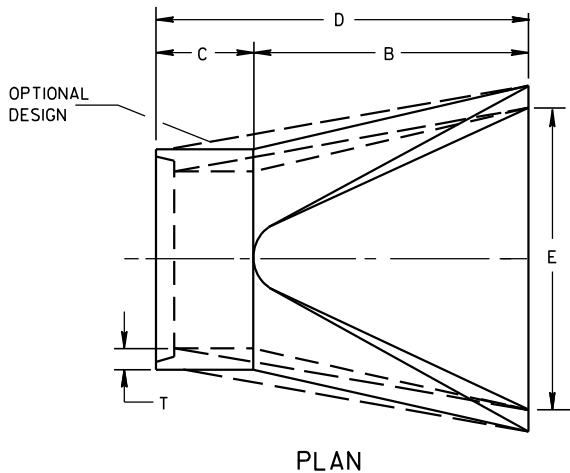
* EXCEPT CENTER PANEL
SEE GENERAL NOTES



METAL ENDWALLS

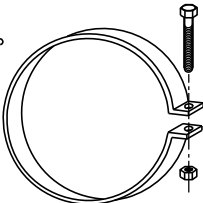
REINFORCED CONCRETE APRON ENDWALLS											
PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE			
	T	A	B	C	D	E	G				
12	2	4	24	48 1/8	72 1/8	24	2	3 to 1			
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1			
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1			
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1			
24	3	9 1/2	43 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	98 1/4	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

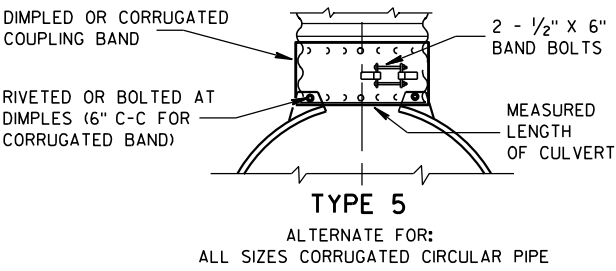
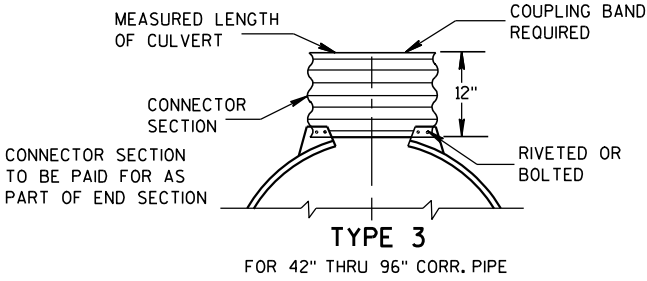
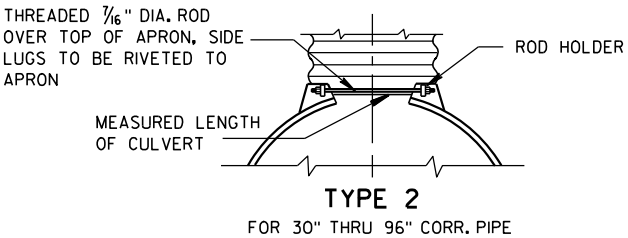
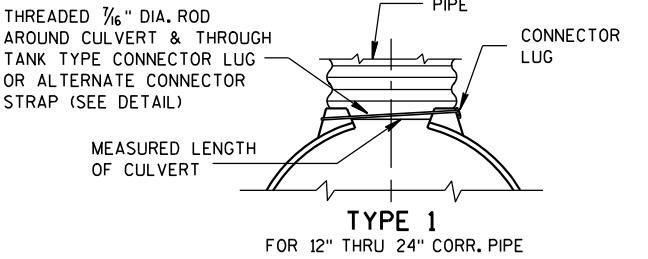


CONCRETE ENDWALLS

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



END SECTION CONNECTOR STRAP



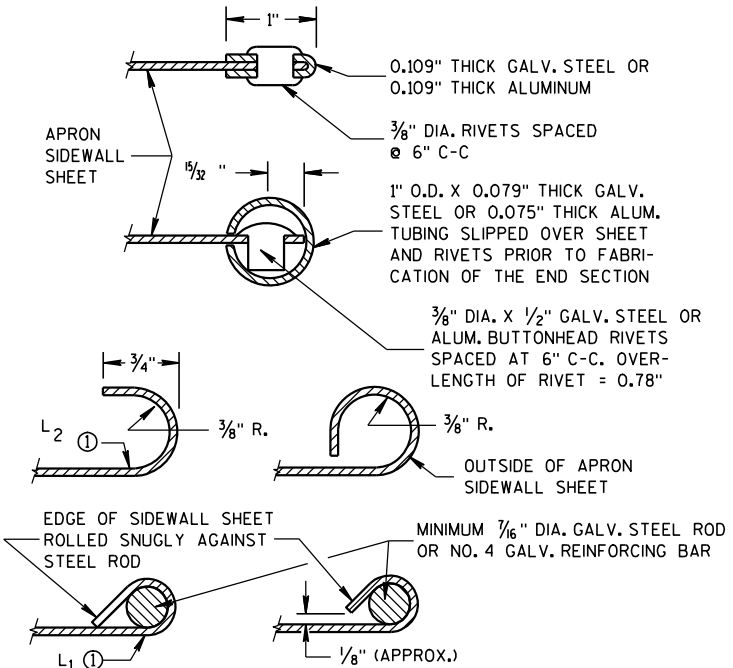
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

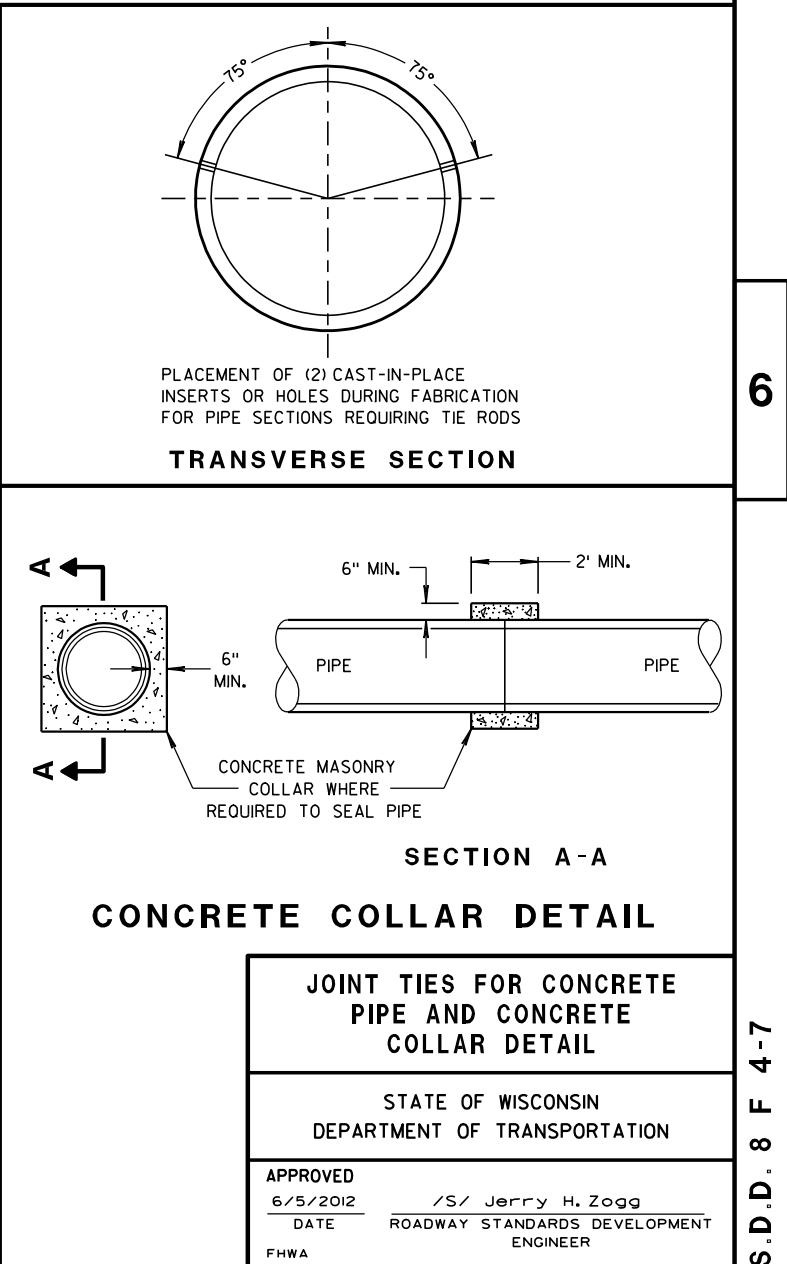
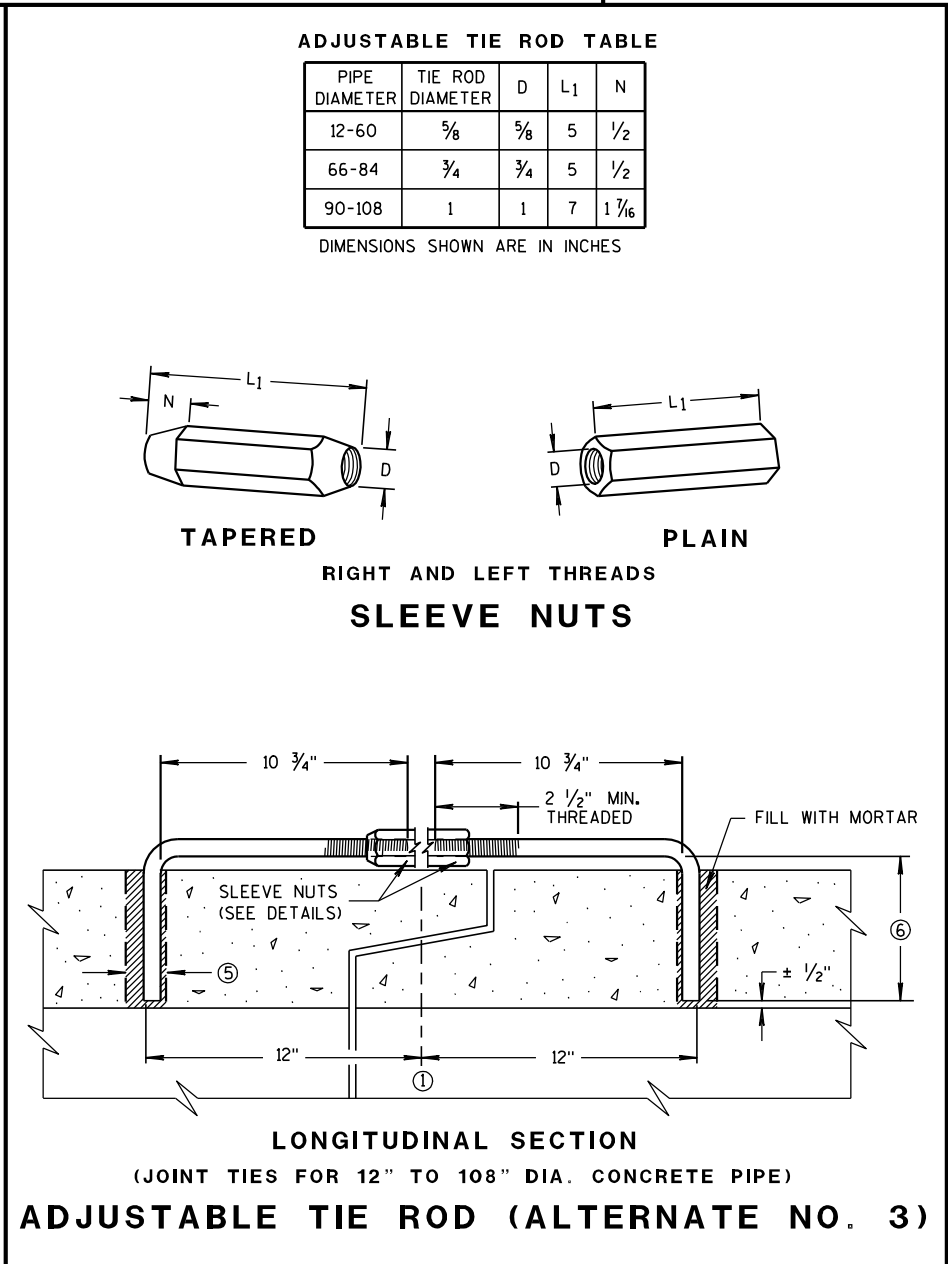
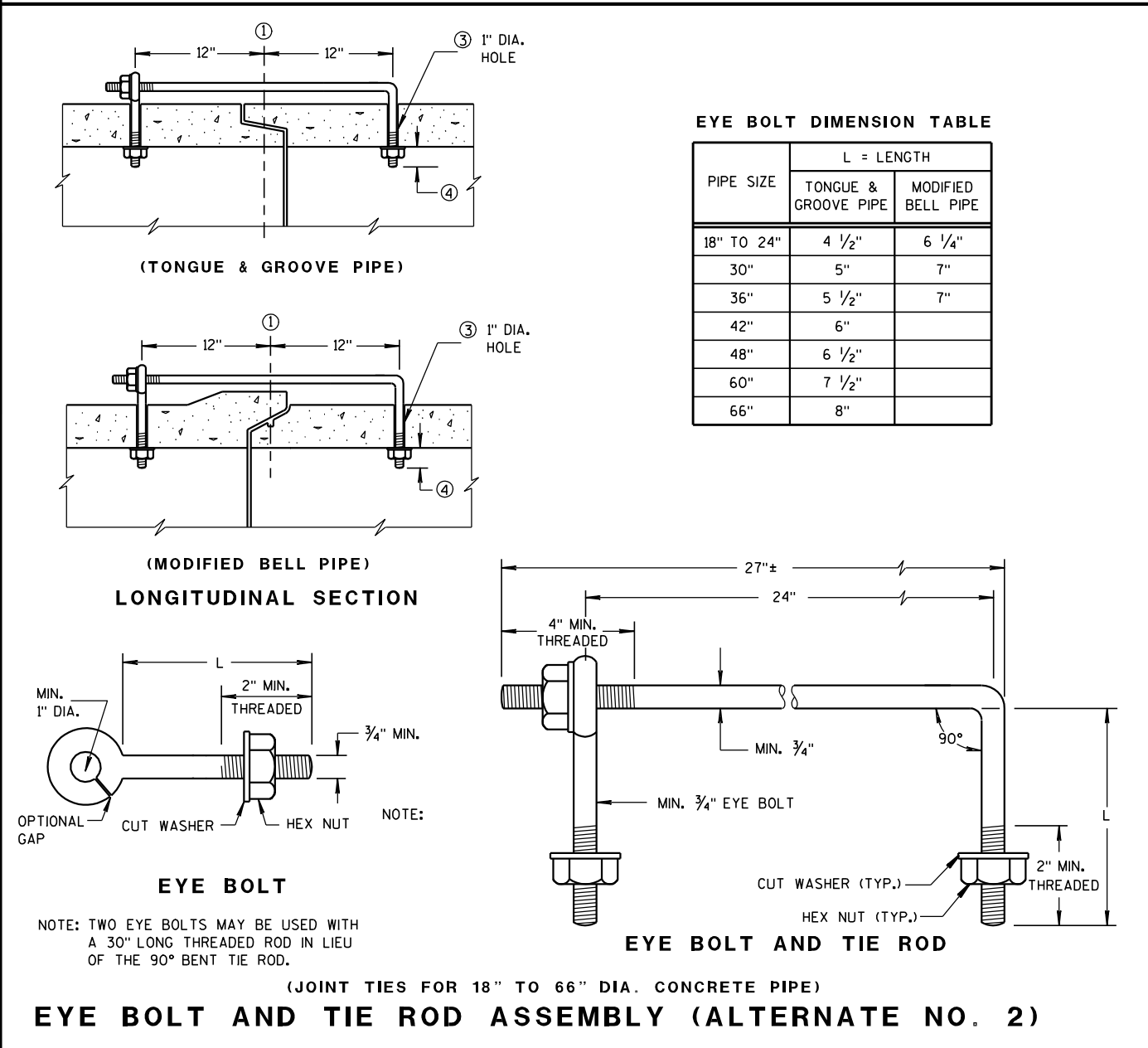
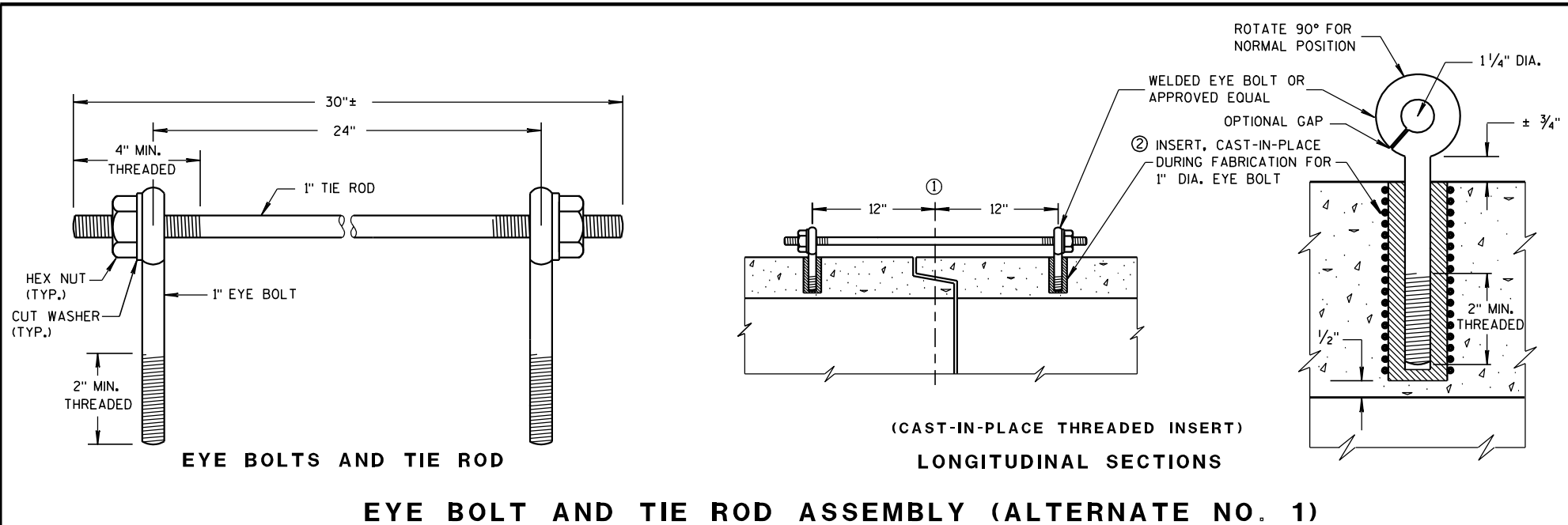
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

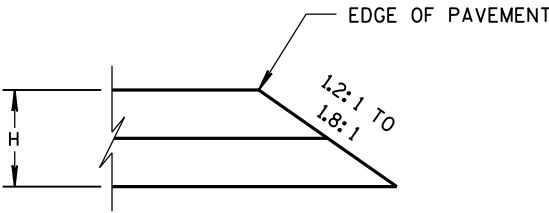
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

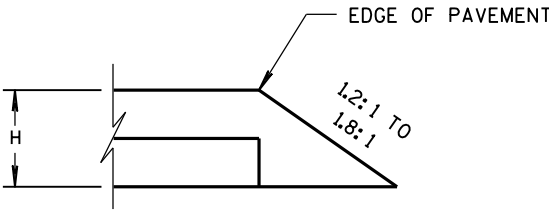
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

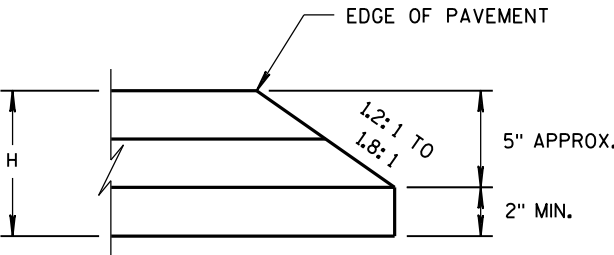




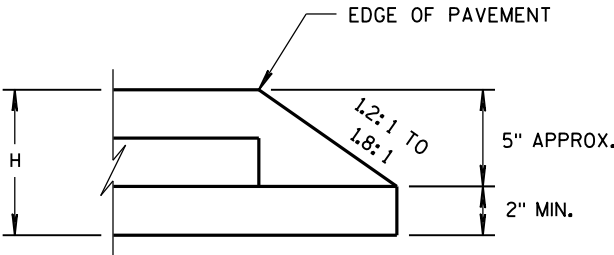
CONSTRUCTED WITH FINAL TWO LAYERS
FOR H 5" OR LESS



CONSTRUCTED WITH FINAL LAYER
FOR H 5" OR LESS

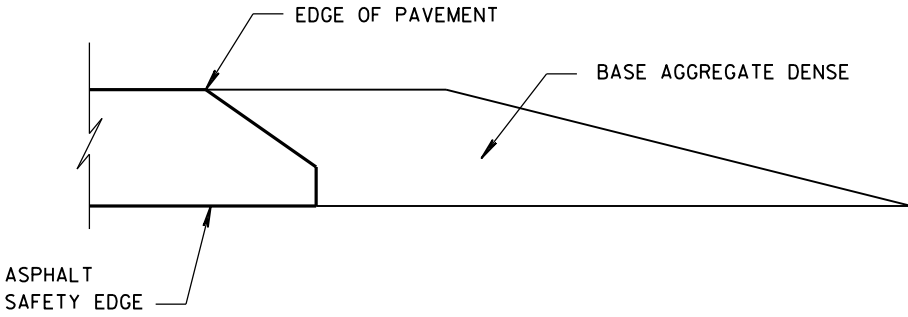


CONSTRUCTED WITH FINAL TWO LAYERS
FOR H GREATER THAN 5"



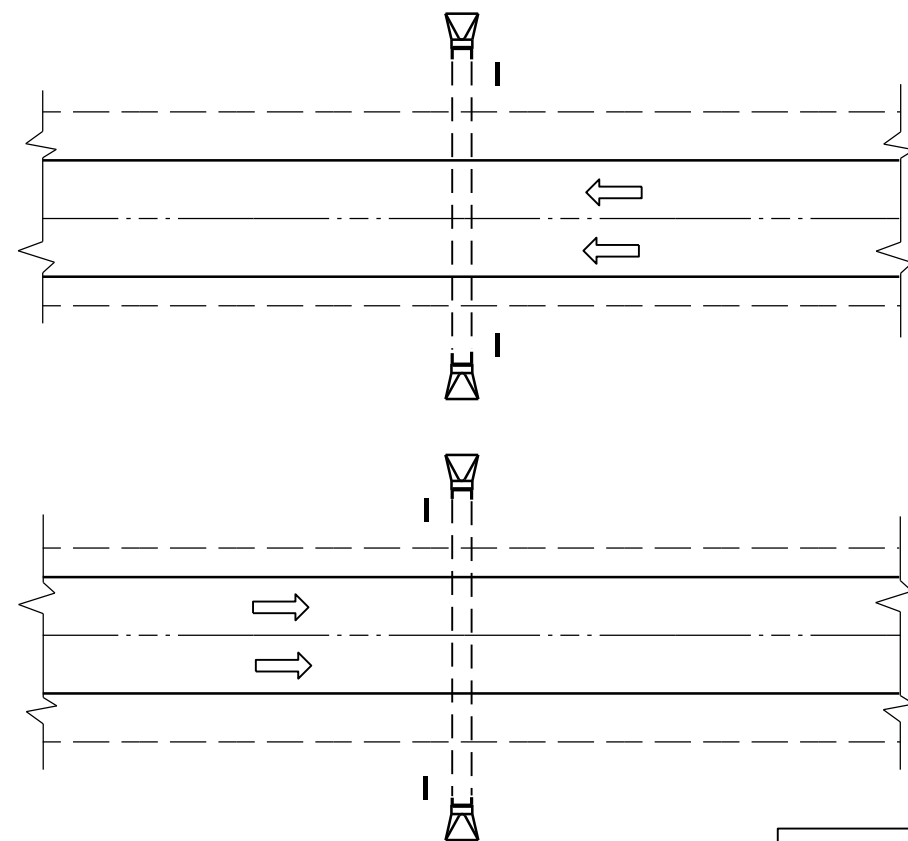
CONSTRUCTED WITH FINAL LAYER
FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS

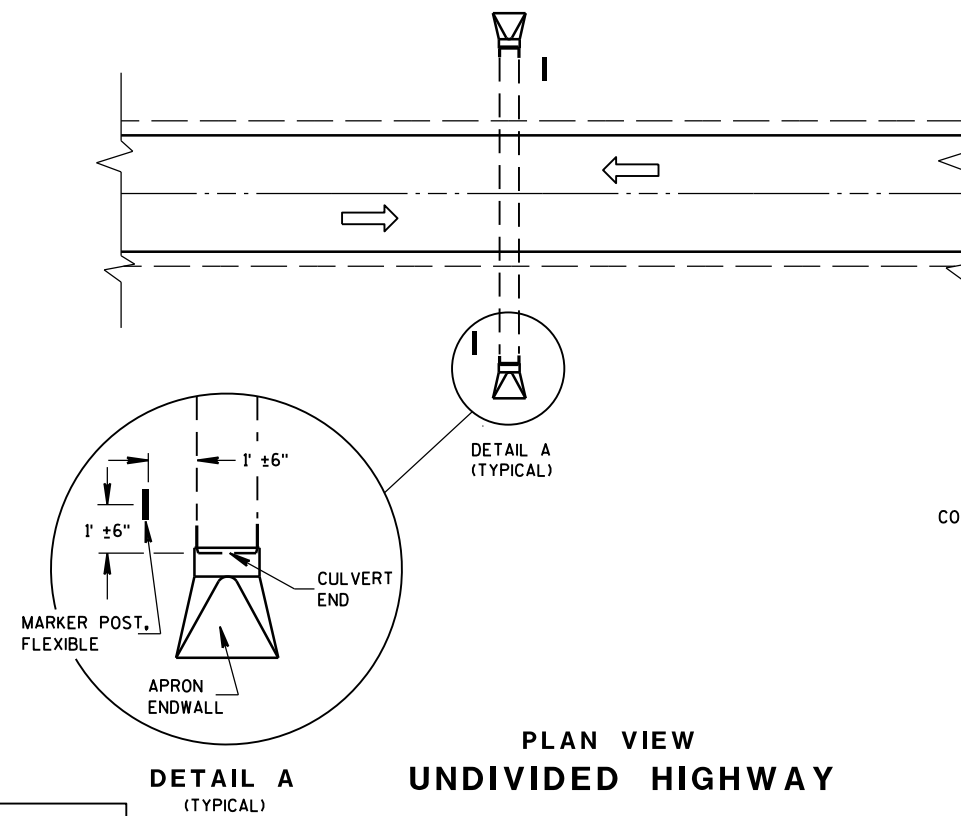
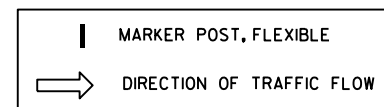


FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE _{SM}	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE 11/30/2012	/s/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA



PLAN VIEW
DIVIDED HIGHWAY

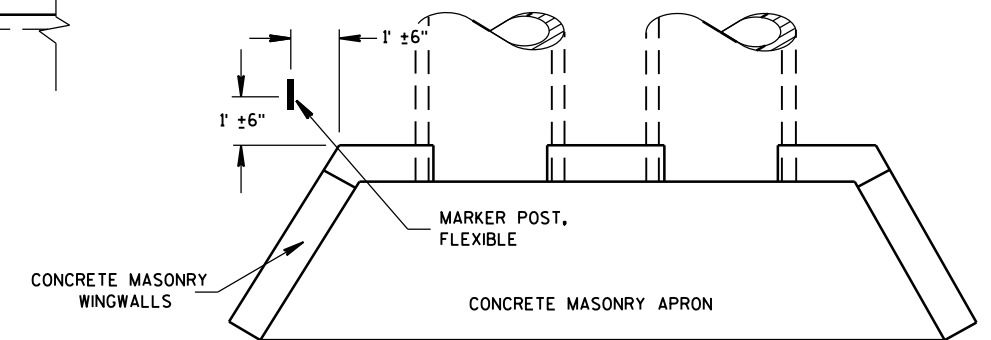


PLAN VIEW
UNDIVIDED HIGHWAY

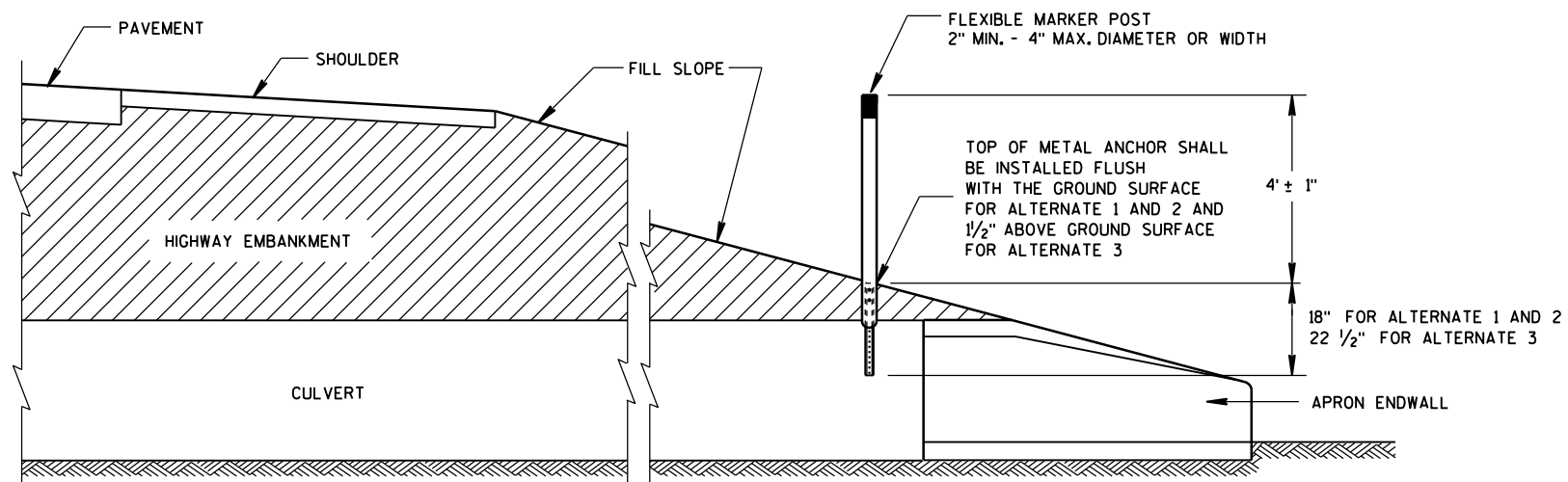
FLEXIBLE MARKER POST LOCATION

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.



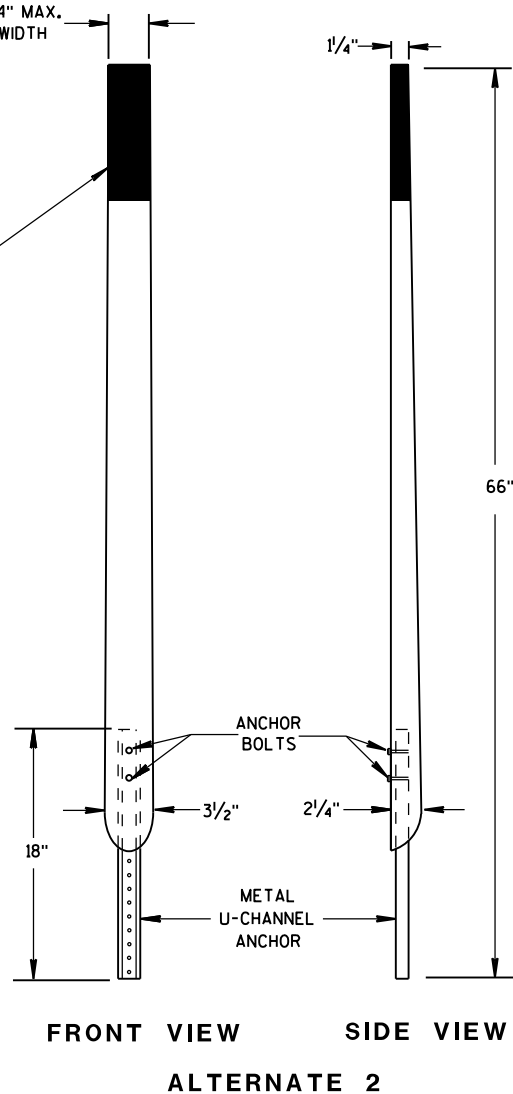
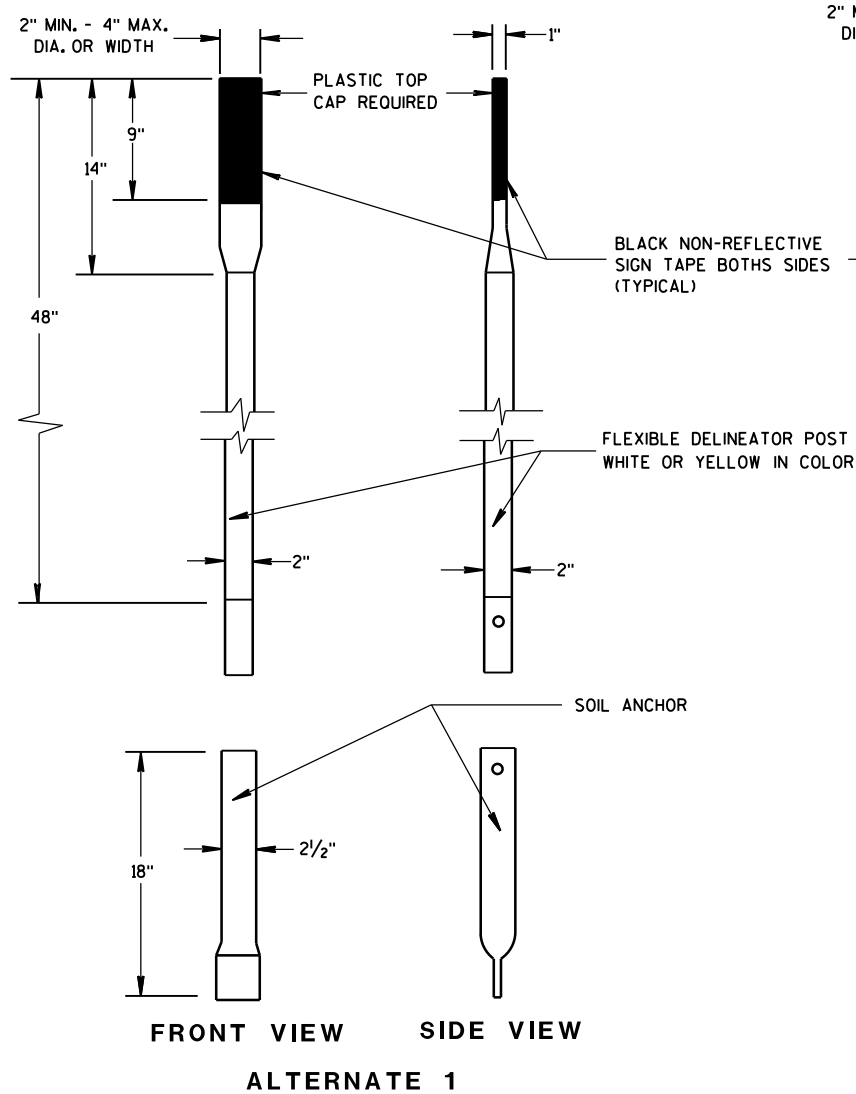
PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH



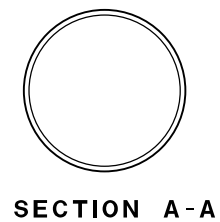
CROSS SECTION
FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

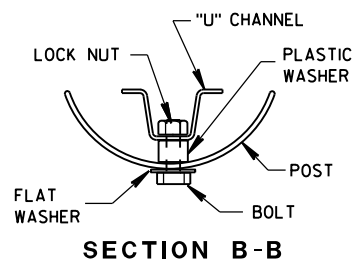
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



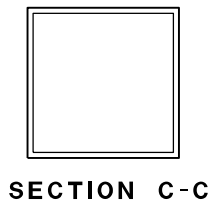
FLEXIBLE MARKER POSTS



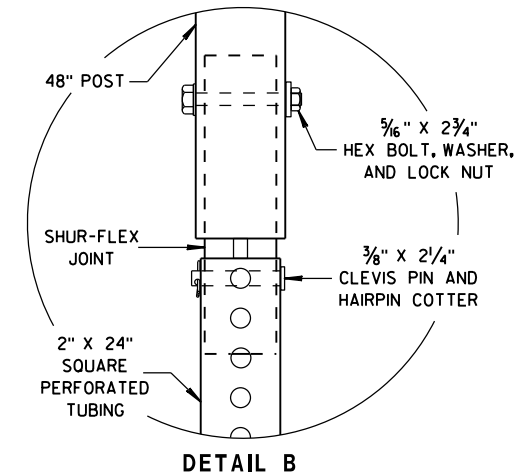
SECTION A-A



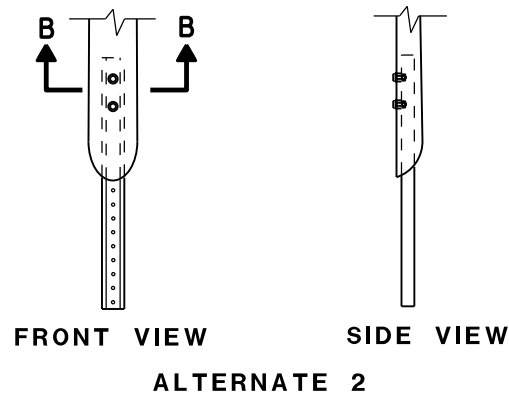
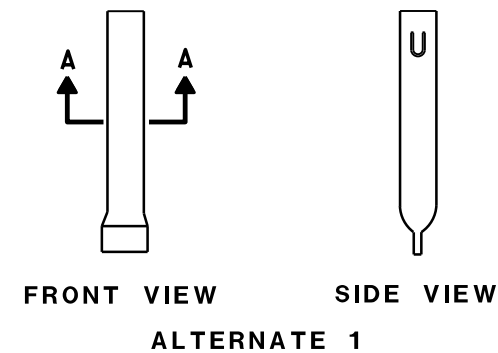
SECTION B-B



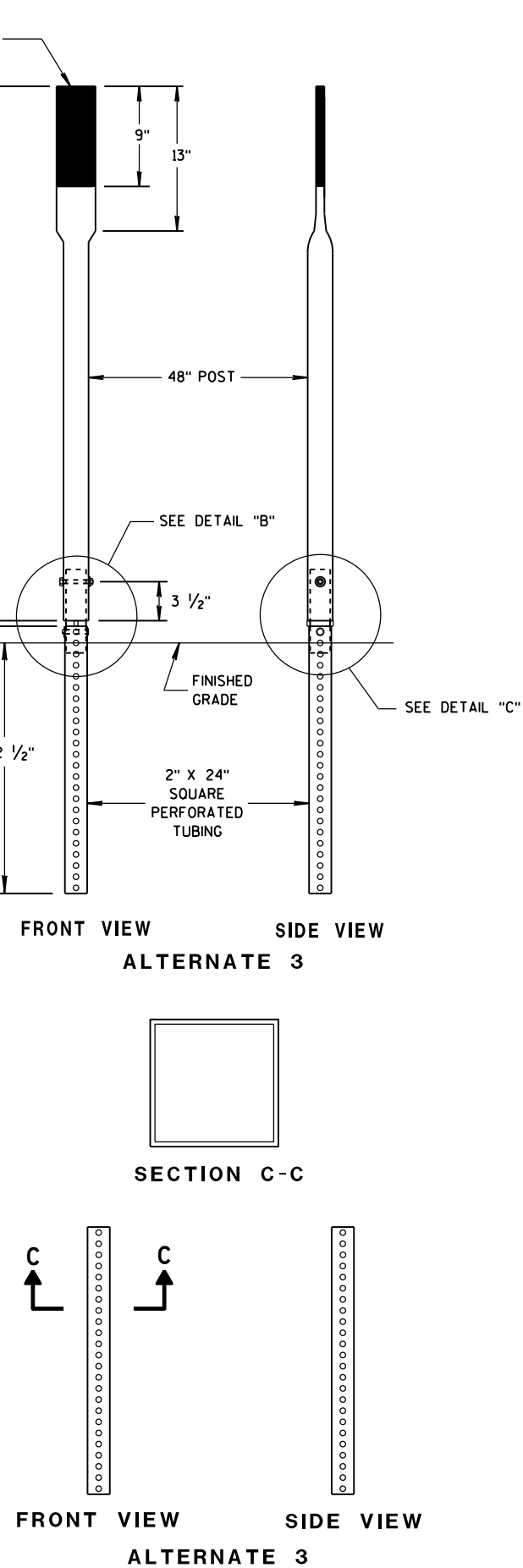
SECTION C-C



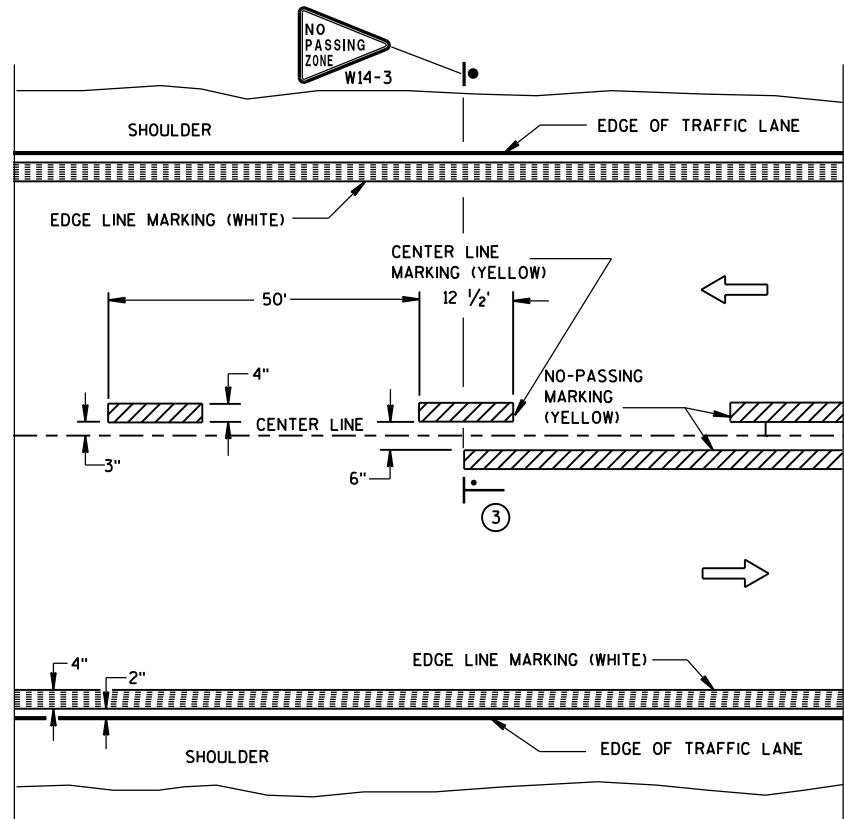
DETAIL C



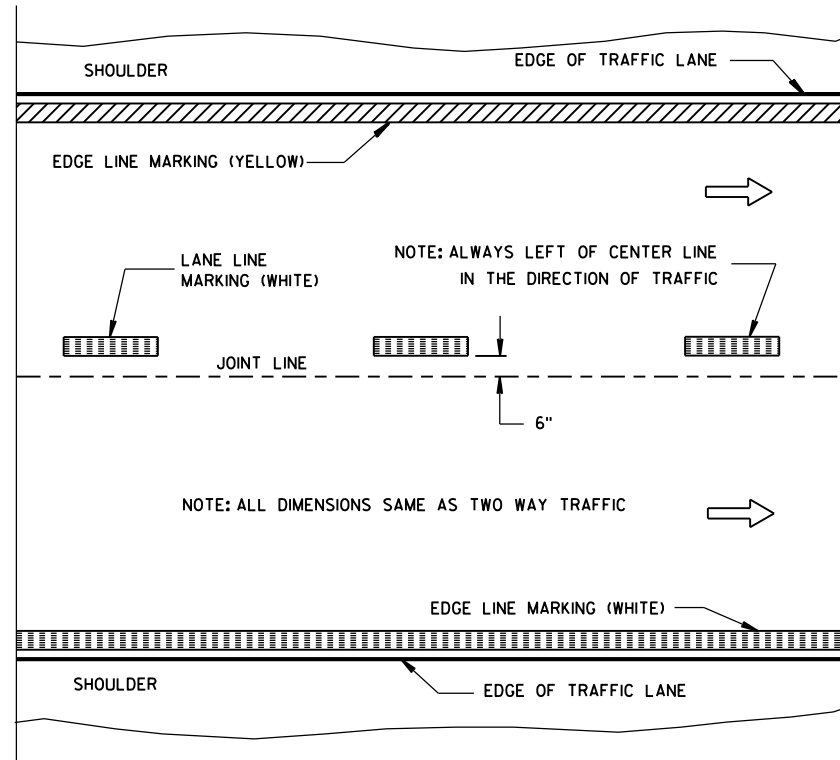
FLEXIBLE MARKER POST ANCHORS



FLEXIBLE MARKER POST FOR CULVERT END	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 10/1/2012 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN
FHWA	

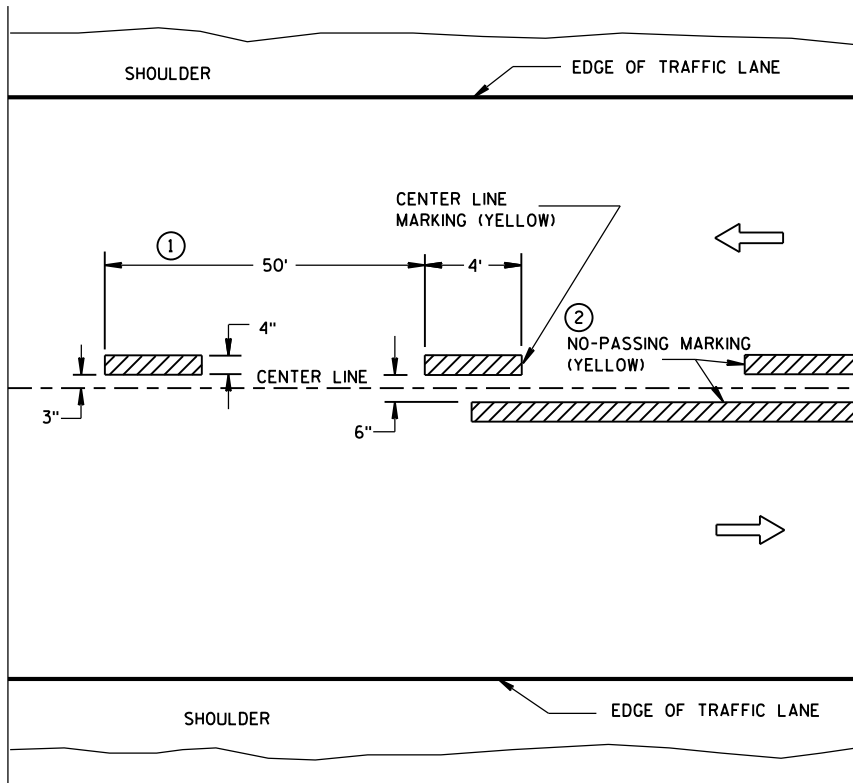


TWO WAY TRAFFIC

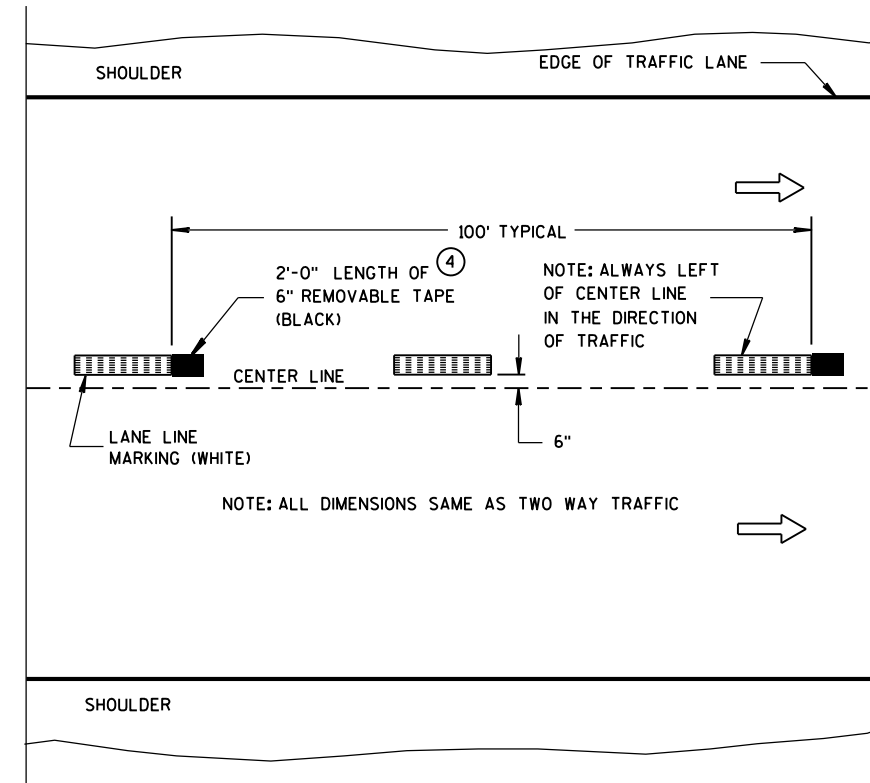


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

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

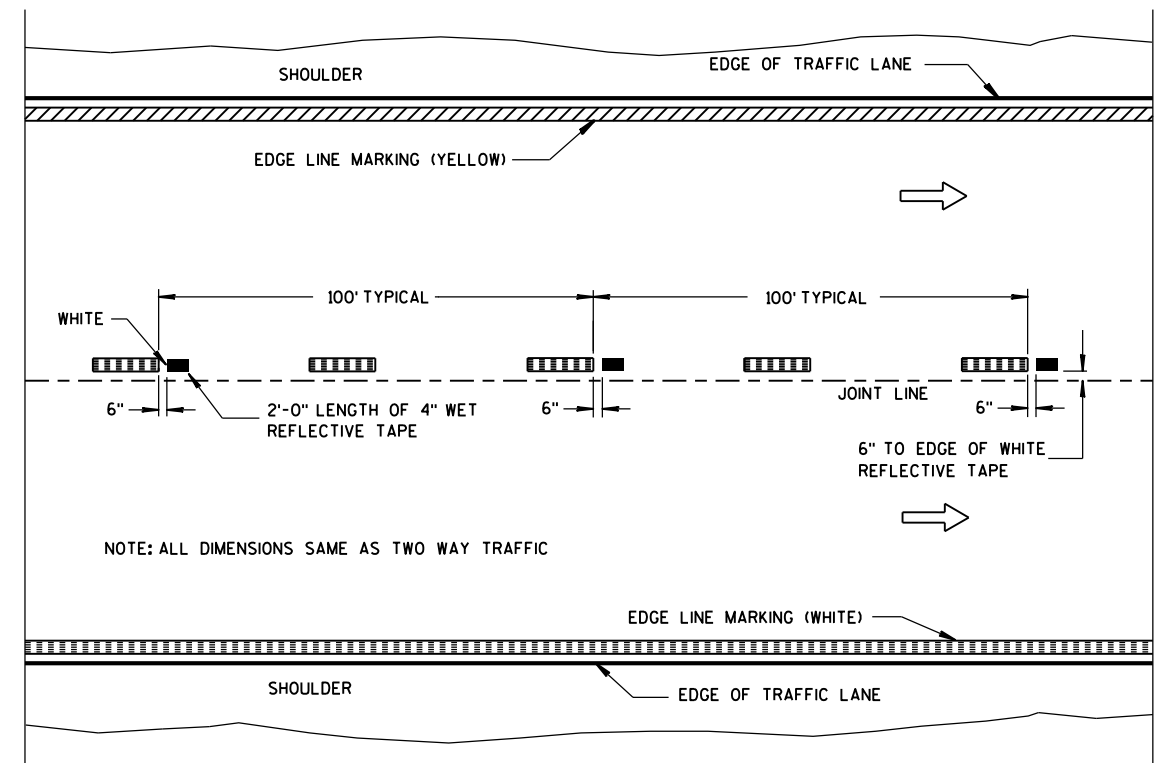
GENERAL NOTES

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)

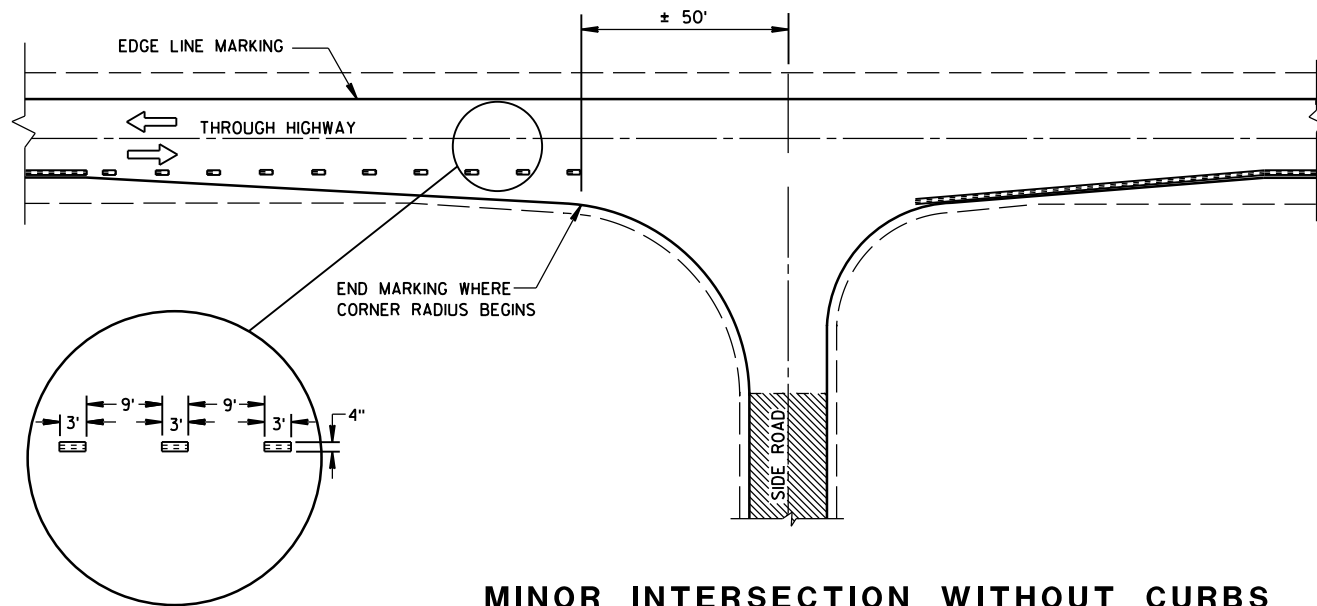
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-13-2013
DATE

FHWA

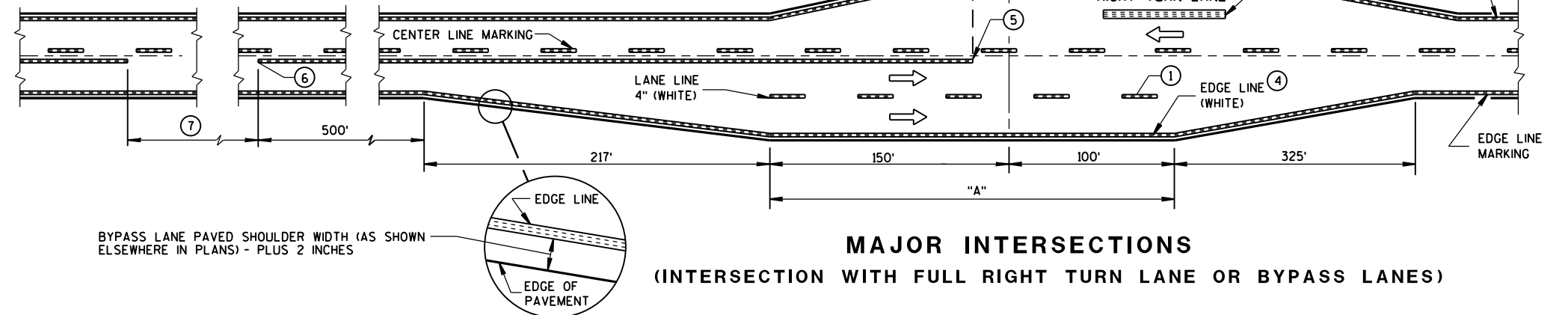
/S/ Travis Feltes
STATE TRAFFIC ENGINEER



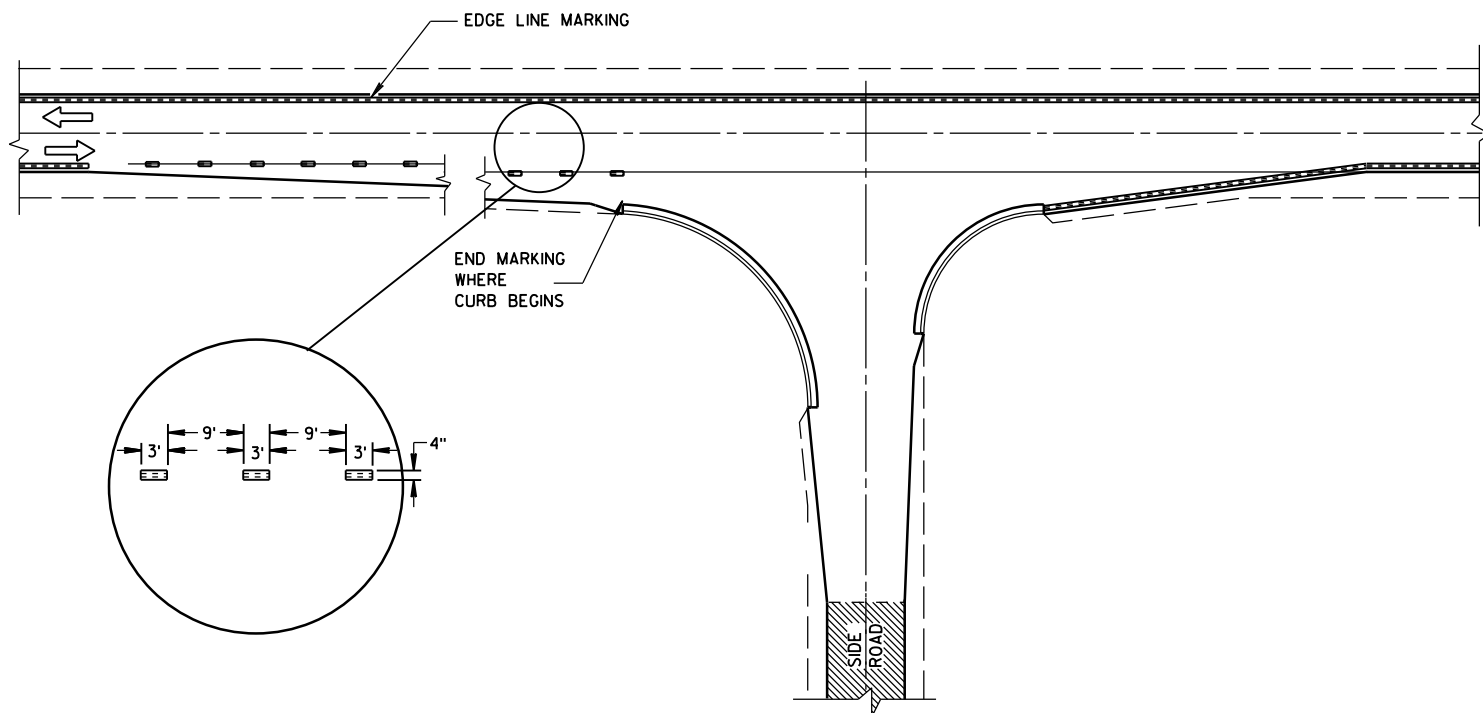
MINOR INTERSECTION WITHOUT CURBS

⑦

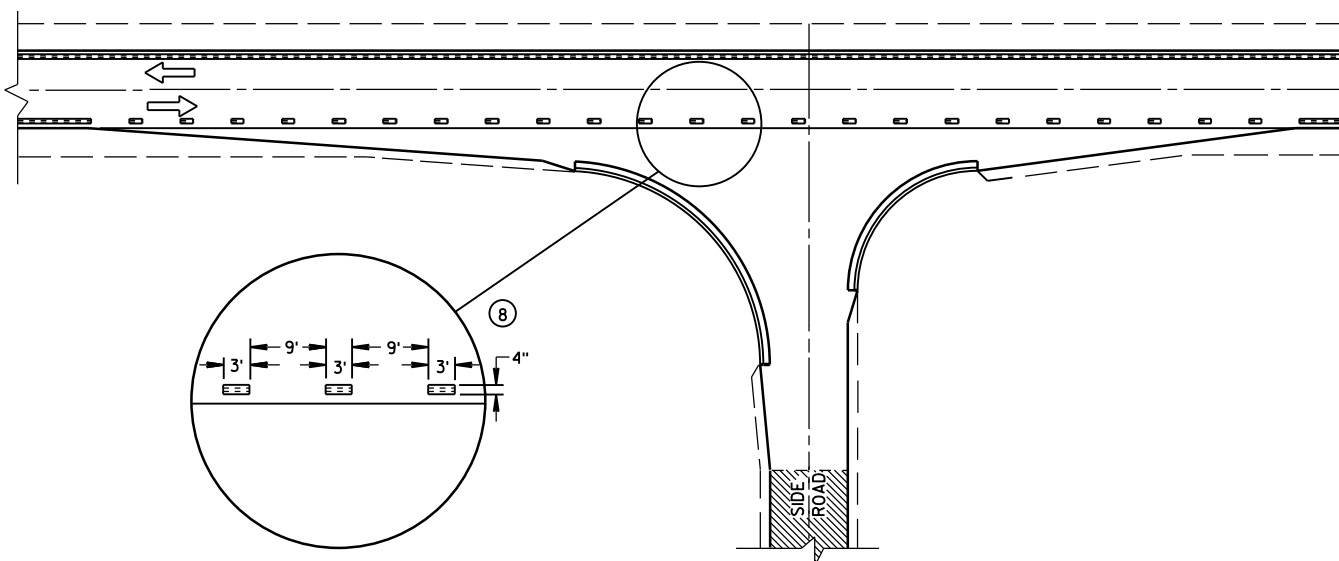
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



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

LEGEND

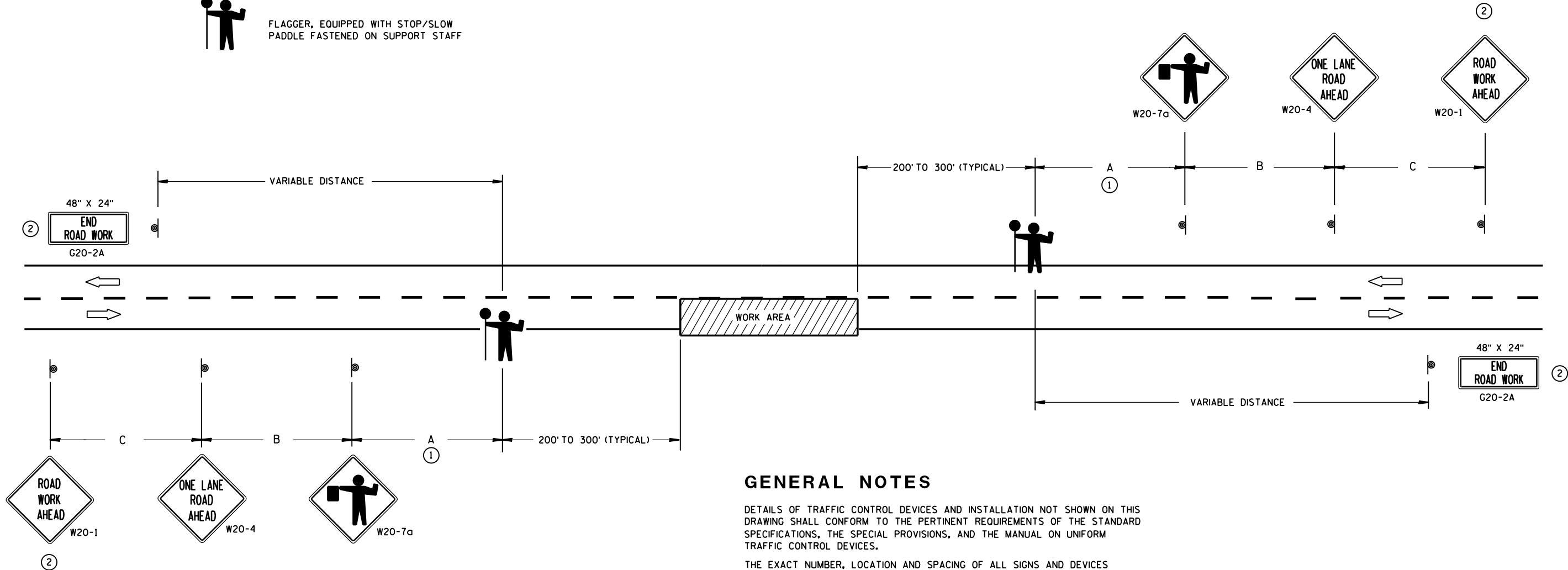
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



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.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE 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.

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, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

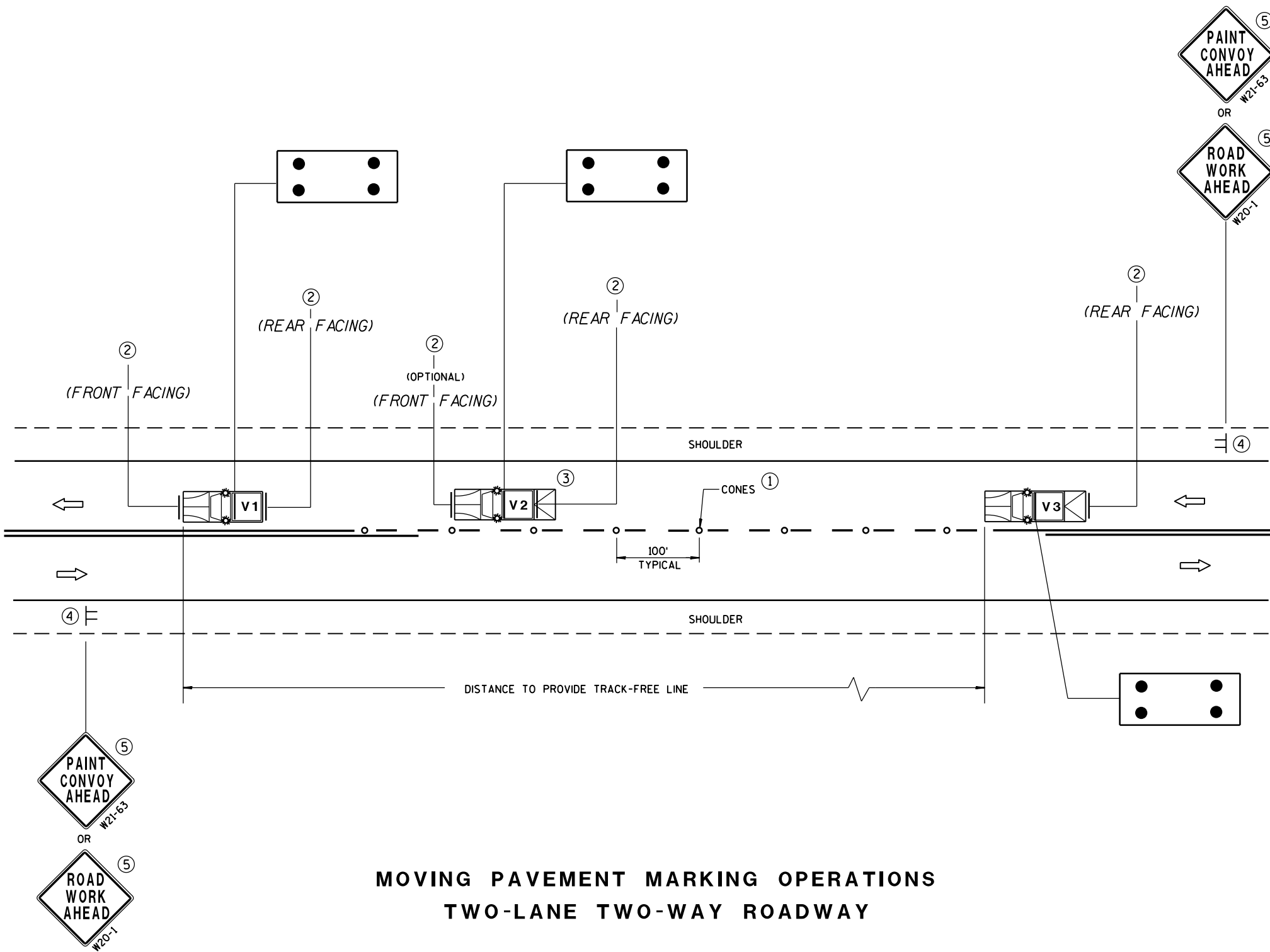
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

- ① FOR A MOVING WORK OPERATION, SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT 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.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



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.
- 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
5/3/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER
FHWA

CTH H EARTHWORK DETAIL

STATION	AREA (SF)			UNADJUSTED INCREMENTAL VOL (CY)			CUMULATIVE VOLUME (CY)		MASS ORDINATE (8)
	CUT (1)	SALVAGED / UNUSABLE PAVEMENT MATERIAL	FILL (3)	CUT (1)	SALVAGED / UNUSABLE PAVEMENT MATERIAL	FILL (3)	CUT (1) 1.00	EXPANDED FILL	
								1.25	
14+25	0.2	0.00	0.6	---	0	---	0	0	0
14+70	1.0	0.00	1.0	1	0	1	1	2	-1
15+20	0.2	0.00	0.1	1	0	1	2	3	-1
15+65	7.9	0.00	6.9	7	0	6	9	10	-1
16+15	0.6	0.00	3.6	8	0	10	17	22	-6
16+60	0.4	0.00	4.0	1	0	6	18	30	-13
17+05	0.4	0.00	6.7	1	0	9	18	41	-23
17+60	0.2	0.00	8.3	1	0	15	19	61	-42
18+65	0.0	0.00	3.9	0	0	24	19	90	-71
19+75	0.0	0.00	6.5	0	0	21	19	117	-98
20+75	6.2	0.00	5.9	11	0	23	31	145	-115
21+80	25.6	0.00	0.0	62	0	12	92	160	-67
22+75	8.6	0.00	2.1	60	0	4	152	164	-12
23+75	16.9	0.00	4.7	47	0	13	200	180	20
24+85	0.0	0.00	15.7	34	0	42	234	232	2
25+80	4.0	0.00	4.2	7	0	35	241	275	-34
27+10	1.1	0.00	1.1	12	0	13	254	292	-38
27+55	8.2	0.00	0.0	8	0	1	262	293	-31
27+65	5.8	0.00	0.0	3	0	0	264	293	-29
28+00	9.1	0.00	0.0	10	0	0	274	293	-19
29+00	9.8	0.00	0.8	35	0	1	309	295	14
30+00	0.7	0.00	4.7	19	0	10	328	307	21
31+00	5.8	0.00	0.0	12	0	9	340	318	22
31+75	0.1	0.00	0.0	8	0	0	348	318	30
32+30	1.3	0.00	1.7	1	0	2	350	320	30
32+78	6.9	0.00	4.0	7	0	5	357	327	30
33+25	7.9	0.00	0.0	13	0	3	370	331	39
34+14	5.1	0.00	0.0	21	0	0	391	331	60
35+00	4.5	0.00	0.0	15	0	0	406	331	76
36+00	6.5	0.00	0.3	20	0	1	427	332	95
36+56	5.7	0.00	0.1	13	0	0	439	332	107
39+60	1.3	0.00	0.0	40	0	0	479	333	146
40+47	17.0	0.00	4.5	30	0	7	509	342	167
41+45	1.2	0.00	0.3	33	0	9	542	352	189
42+65	0.6	0.00	0.1	4	0	1	546	353	192
47+90	0.0	0.00	0.0	6	0	1	552	354	197
48+63	12.2	0.00	11.8	17	0	16	568	374	194
48+90	0.0	0.00	3.2	6	0	7	574	384	191
50+25	5.4	0.00	17.5	14	0	52	588	448	140
50+85	6.4	0.00	4.4	13	0	24	601	478	123
52+00	0.0	0.00	6.1	14	0	22	615	506	109
53+15	0.0	0.00	7.7	0	0	29	615	543	72

CTH H EARTHWORK DETAIL

STATION	AREA (SF)			UNADJUSTED INCREMENTAL VOL (CY)			CUMULATIVE VOLUME (CY)		MASS ORDINATE (8)
	CUT (1)	SALVAGED / UNUSABLE PAVEMENT MATERIAL	FILL (3)	CUT (1)	SALVAGED / UNUSABLE PAVEMENT MATERIAL	FILL (3)	CUT (1) 1.00	EXPANDED FILL	
								1.25	
54+25	0.0	0.00	2.9	0	0	21	615	570	45
55+35	0.1	0.00	0.1	0	0	6	615	577	38
57+55	0.0	0.00	8.0	0	0	33	615	618	-3
58+75	10.6	0.00	0.0	24	0	18	639	641	-2
59+00	4.4	0.00	1.5	7	0	1	646	642	4
59+25	1.2	0.00	3.3	3	0	2	649	644	4
59+90	61.4	0.00	0.5	75	0	5	724	650	74
60+75	18.6	0.00	0.0	126	0	1	850	651	199
60+94	4.1	0.00	0.2	8	0	0	858	651	207
61+25	0.2	0.00	9.0	3	0	5	860	658	203
62+05	0.0	0.00	33.0	0	0	62	861	735	125
63+14	0.0	0.00	0.1	0	0	67	861	819	42
64+00	1.2	0.00	2.4	2	0	4	863	824	39
65+00	13.6	0.00	0.4	27	0	5	890	830	60
66+25	22.1	0.00	0.0	83	0	1	973	831	141
67+25	3.0	0.00	2.4	47	0	4	1,019	837	182
67+75	0.0	0.00	10.0	3	0	11	1,022	851	171
68+50	0.0	0.00	4.0	0	0	19	1,022	875	146
69+50	19.9	0.00	0.3	37	0	8	1,059	885	173
70+75	1.1	0.00	3.1	49	0	8	1,108	895	212
71+50	0.2	0.00	3.7	2	0	9	1,109	907	202
72+75	0.9	0.00	27.3	3	0	72	1,112	997	115
73+25	0.8	0.00	60.0	2	0	81	1,114	1,098	16
73+75	60.1	0.00	0.5	56	0	56	1,170	1,168	2
74+85	18.5	0.00	4.6	160	0	10	1,330	1,181	150
75+60	11.9	0.00	0.7	42	0	7	1,373	1,190	183
76+05	10.1	0.00	0.2	18	0	1	1,391	1,191	200
77+00	6.7	0.00	0.0	29	0	0	1,420	1,191	229
78+00	0.0	0.00	0.0	12	0	0	1,433	1,191	242
79+00	4.9	0.00	0.0	9	0	0	1,442	1,191	251
80+00	4.9	0.00	0.2	18	0	0	1,460	1,191	269
81+00	3.8	0.00	0.0	16	0	0	1,476	1,192	285
82+00	4.2	0.00	0.0	15	0	0	1,491	1,192	299
83+00	4.6	0.00	0.1	16	0	0	1,507	1,192	316
84+00	4.9	0.00	0.0	18	0	0	1,525	1,192	333
85+00	6.0	0.00	0.0	20	0	0	1,545	1,192	353
86+00	0.0	0.00	0.0	11	0	0	1,556	1,192	364
87+00	0.0	0.00	0.0	0	0	0	1,556	1,192	364
90+80	0.0	0.00	2.5	0	0	18	1,556	1,214	342
93+00	18.0	0.00	16.2	73	0	76	1,629	1,309	320
94+00	0.0	0.00	3.2	33	0	36	1,663	1,354	309
94+60	0.0	0.00	5.7	0	0	10	1,663	1,366	296
96+10	41.1	0.00	0.0	114	0	16	1,777	1,386	391
96+25	33.5	0.00	0.0	21	0	0	1,798	1,386	412
96+50	10.2	0.00	0.1	20	0	0	1,818	1,386	432

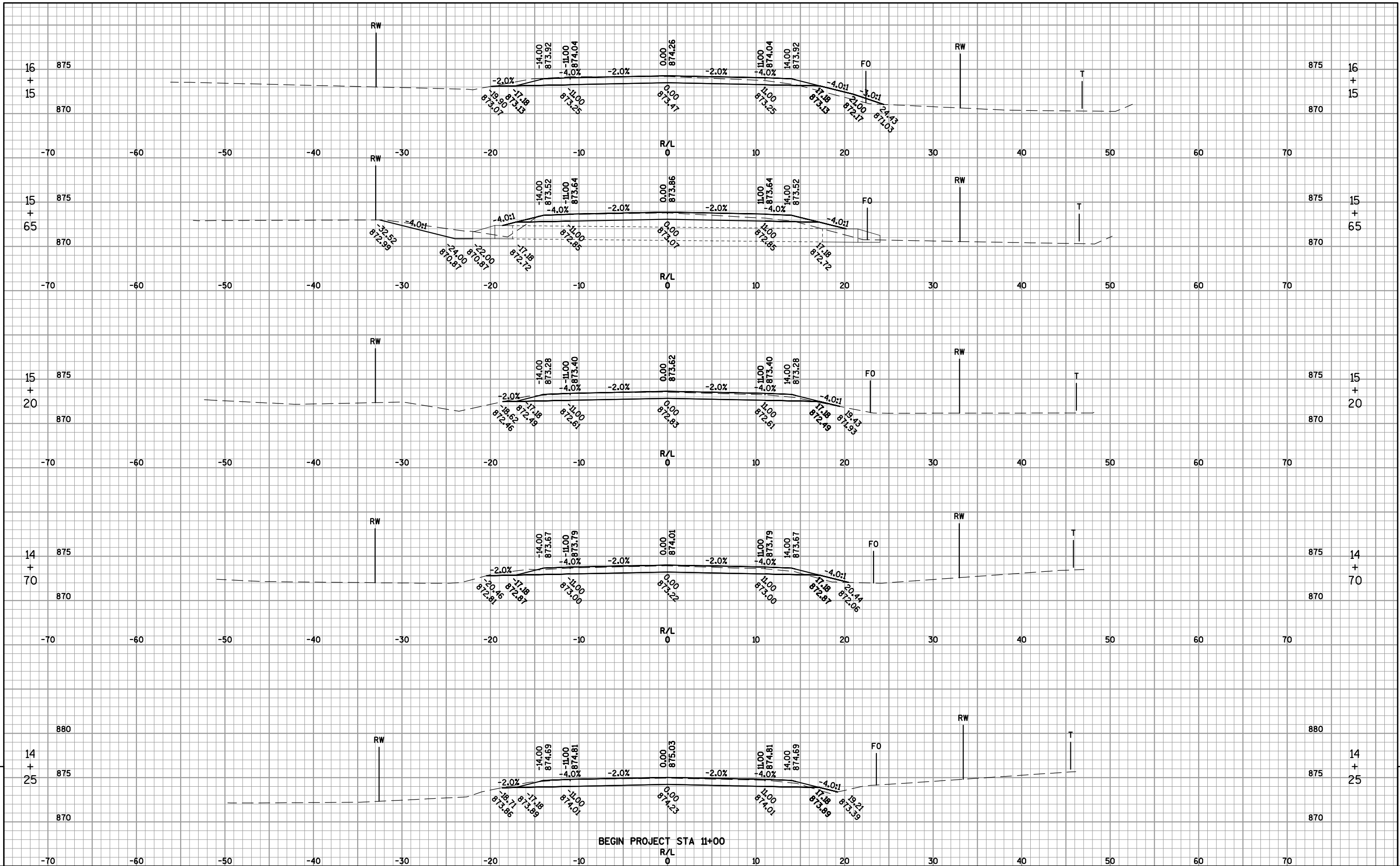
CTH H EARTHWORK DETAIL

STATION	AREA (SF)			UNADJUSTED INCREMENTAL VOL (CY)			CUMULATIVE VOLUME (CY)		MASS ORDINATE (8)
	CUT (1)	SALVAGED / UNUSABLE PAVEMENT MATERIAL	FILL (3)	CUT (1)	SALVAGED / UNUSABLE PAVEMENT MATERIAL	FILL (3)	CUT (1)	EXPANDED FILL	
							1.00	1.25	
97+00	4.5	0.00	5.7	14	0	5	1,831	1,393	439
98+00	28.0	0.00	9.7	60	0	29	1,892	1,429	463
99+00	47.9	0.00	10.2	141	0	37	2,032	1,475	558
100+00	48.0	0.00	0.0	178	0	19	2,210	1,498	712
100+50	14.7	0.00	0.0	58	0	0	2,268	1,498	770
100+75	18.8	0.00	0.0	16	0	0	2,283	1,498	785
101+10	4.5	0.00	0.0	15	0	0	2,298	1,498	800
102+15	3.5	0.00	3.6	15	0	7	2,314	1,507	807
102+65	10.8	0.00	0.0	13	0	3	2,327	1,511	816
103+20	6.5	0.00	0.7	18	0	1	2,345	1,512	833
104+30	3.7	0.00	0.2	21	0	2	2,366	1,515	851
105+40	0.0	0.00	2.4	8	0	5	2,373	1,521	852
106+20	0.2	0.00	0.2	0	0	4	2,373	1,526	847
107+15	4.3	0.00	6.3	8	0	11	2,381	1,540	841
107+30	4.6	0.00	5.1	2	0	3	2,384	1,544	839
107+38	3.8	0.00	7.8	1	0	2	2,385	1,547	838
107+70	15.3	0.00	3.2	11	0	7	2,396	1,555	842
108+30	3.3	0.00	1.8	21	0	6	2,417	1,562	855
110+55	28.2	0.00	2.2	131	0	17	2,548	1,583	965
111+65	35.7	0.00	3.2	130	0	11	2,678	1,596	1,082
112+65	32.2	0.00	0.0	126	0	6	2,804	1,604	1,200
114+00	10.6	0.00	0.0	107	0	0	2,911	1,604	1,307
115+00	32.8	0.00	0.0	80	0	0	2,991	1,604	1,387
115+50	17.5	0.00	0.0	47	0	0	3,037	1,604	1,434

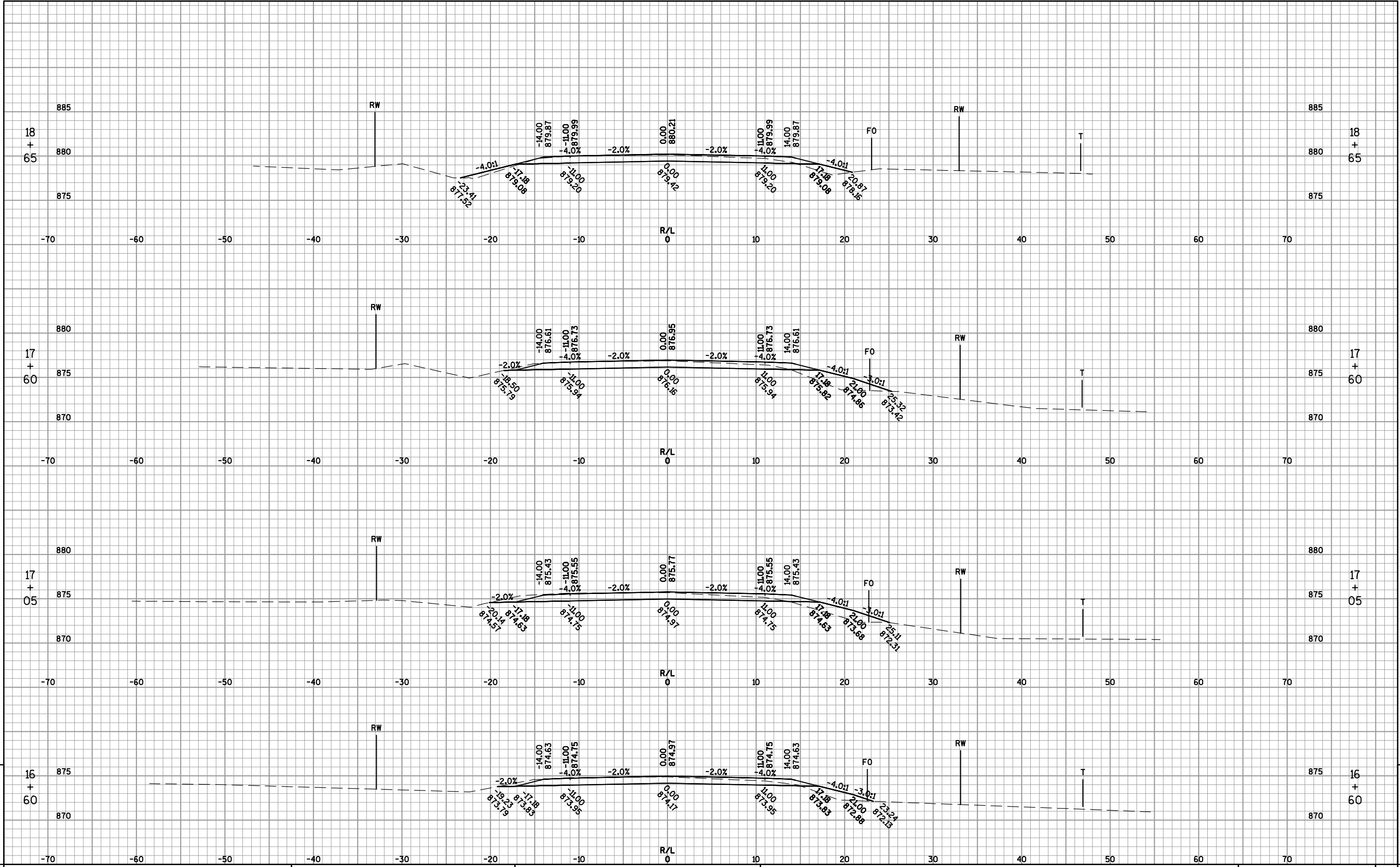
Totals 3,037 0 1,283

(1) CUT DOES NOT INCLUDE SALVAGED/UNUSABLE PAVEMENT MATERIAL
(3) FILL DOES NOT INCLUDE SALVAGED/UNUSABLE PAVEMENT MATERIAL
(8) MASS ORDINATE = CUT - EXPANDED FILL. A PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL. A MINUS QUANTITY INDICATES A SHORTAGE OF MATERIAL.

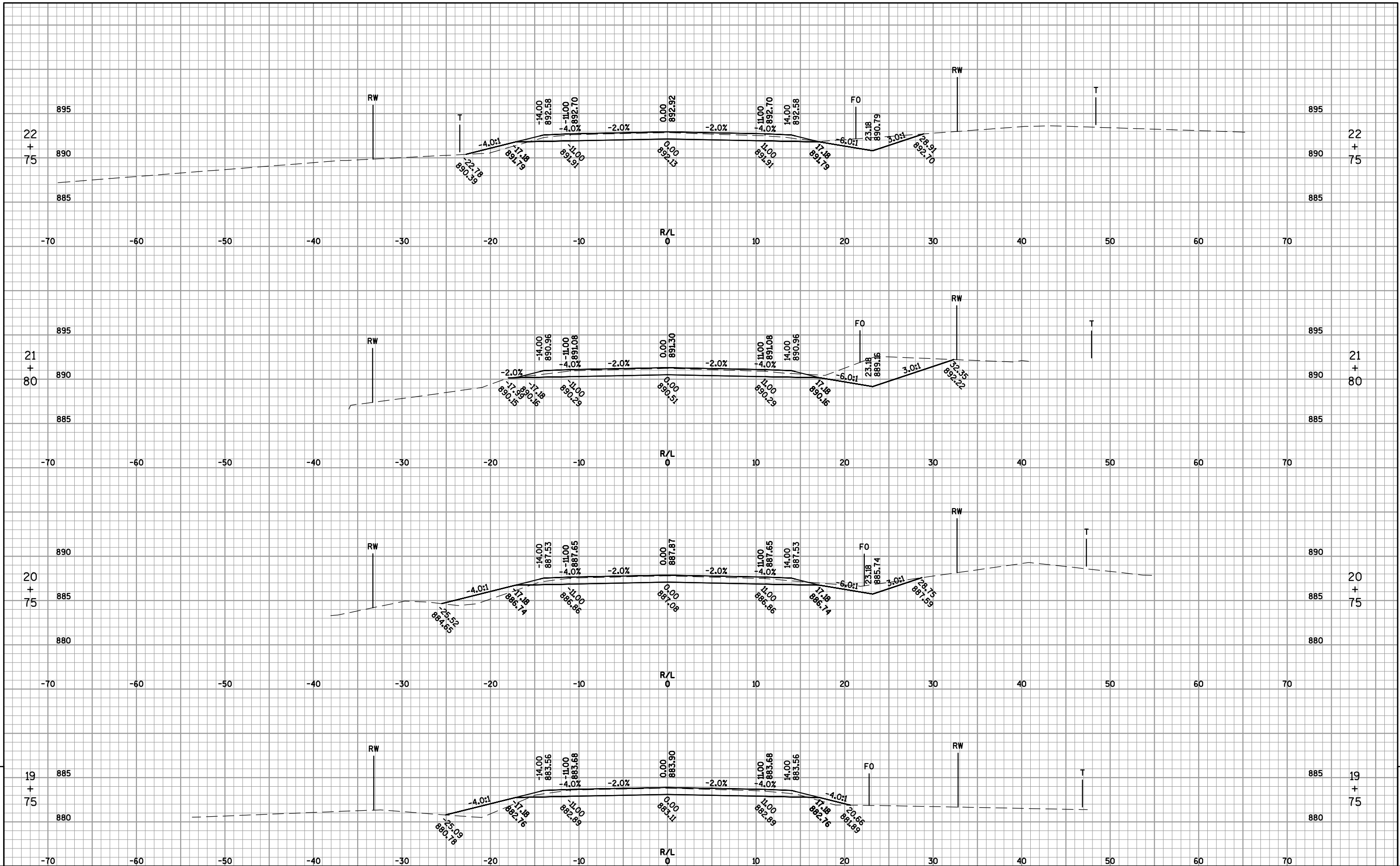
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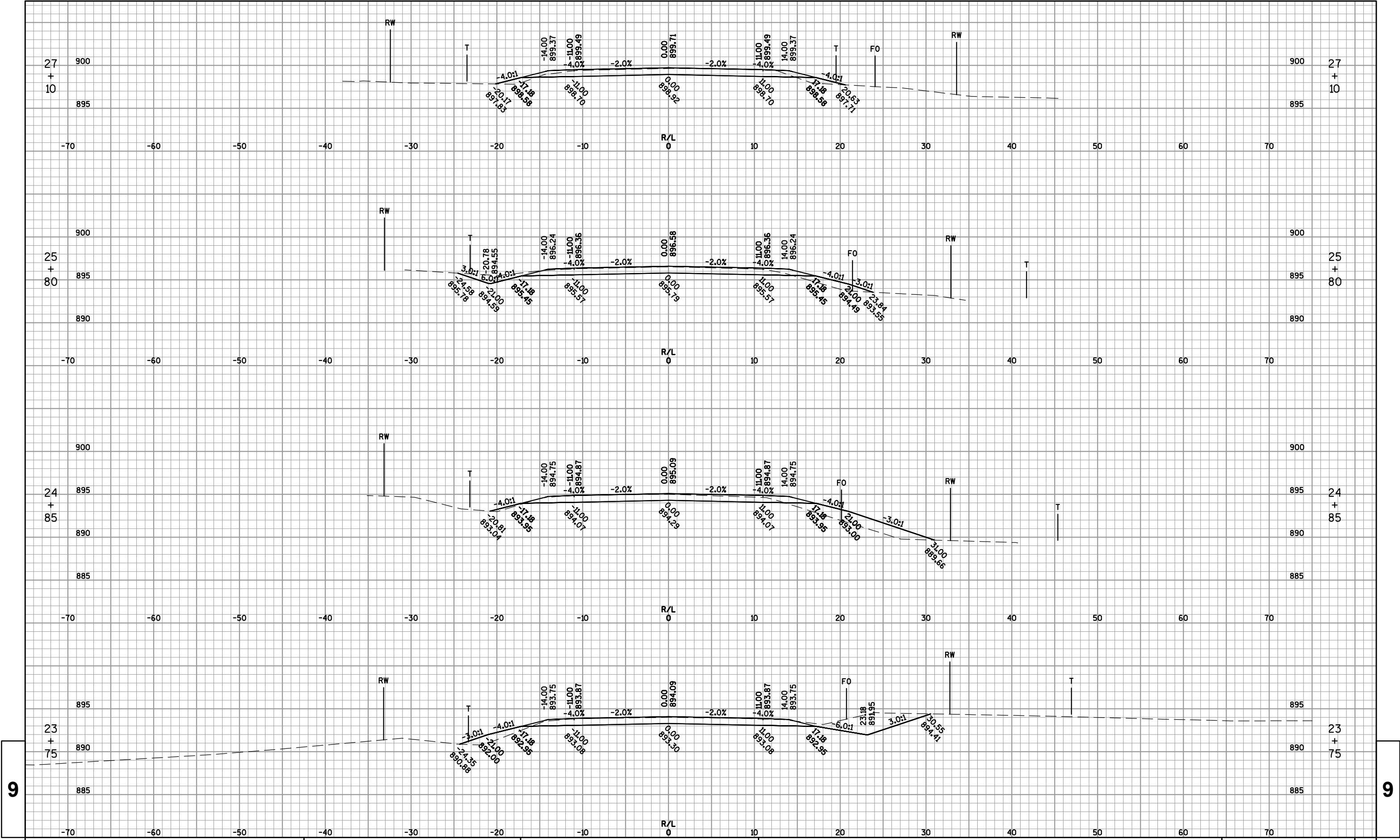
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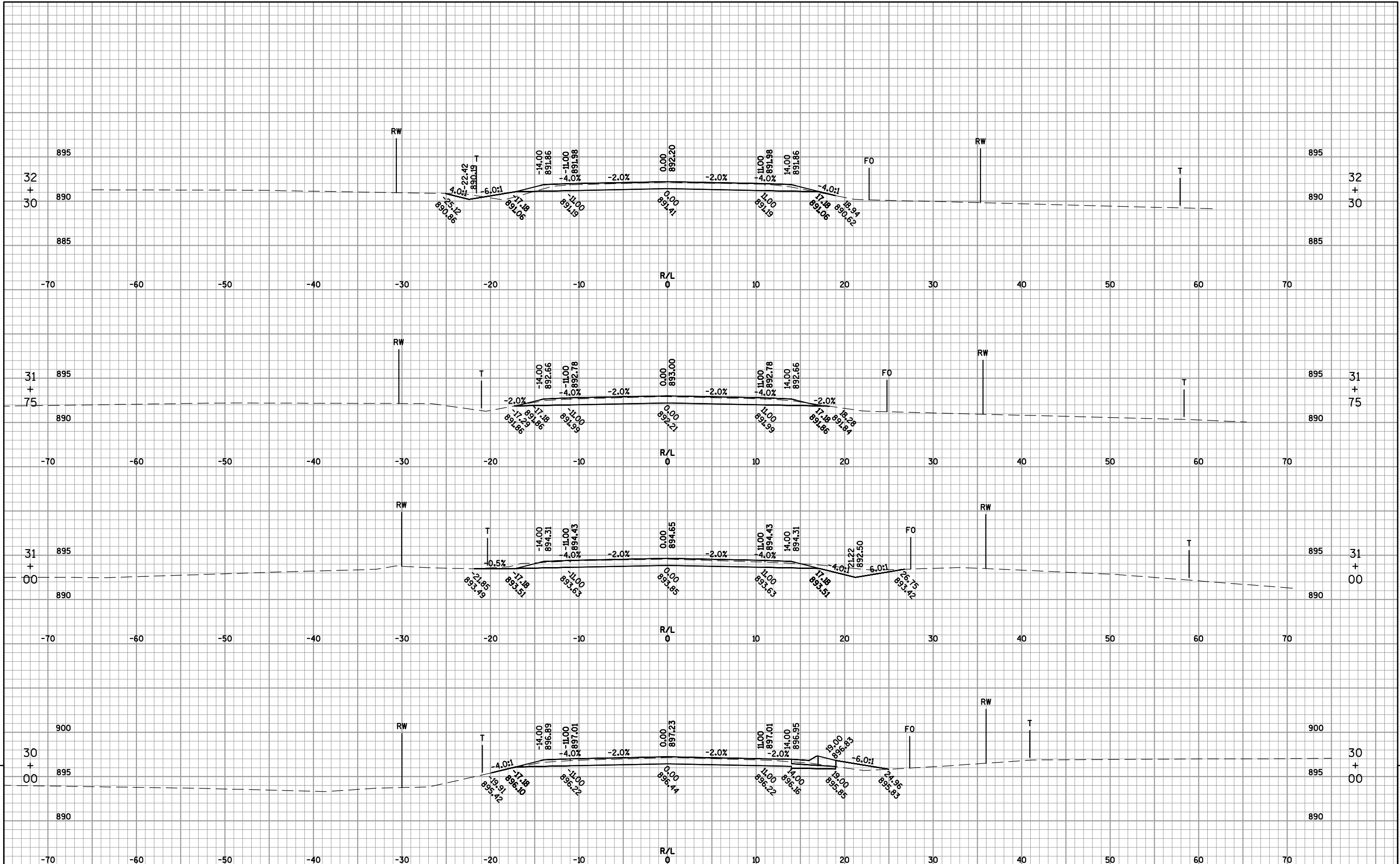


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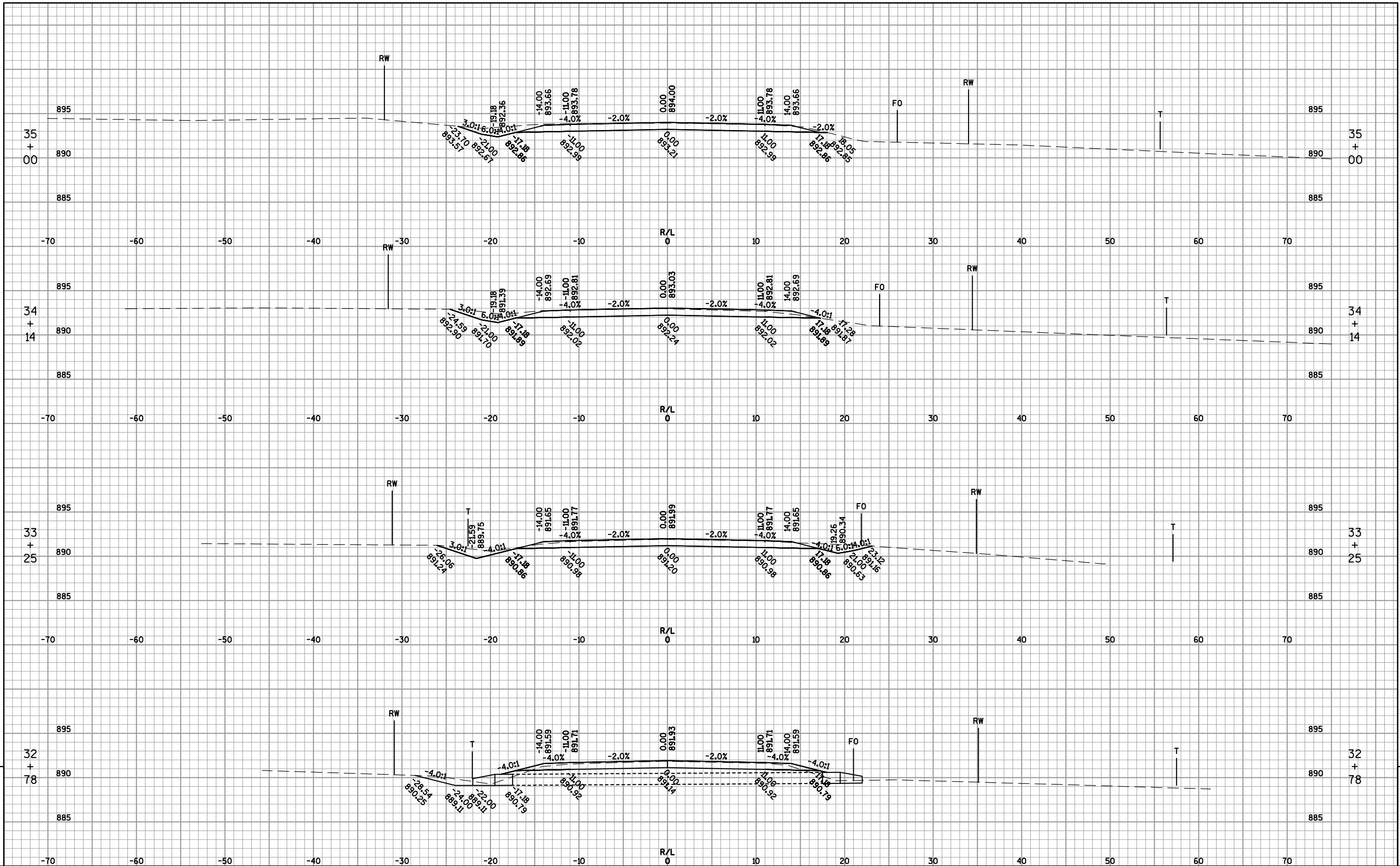


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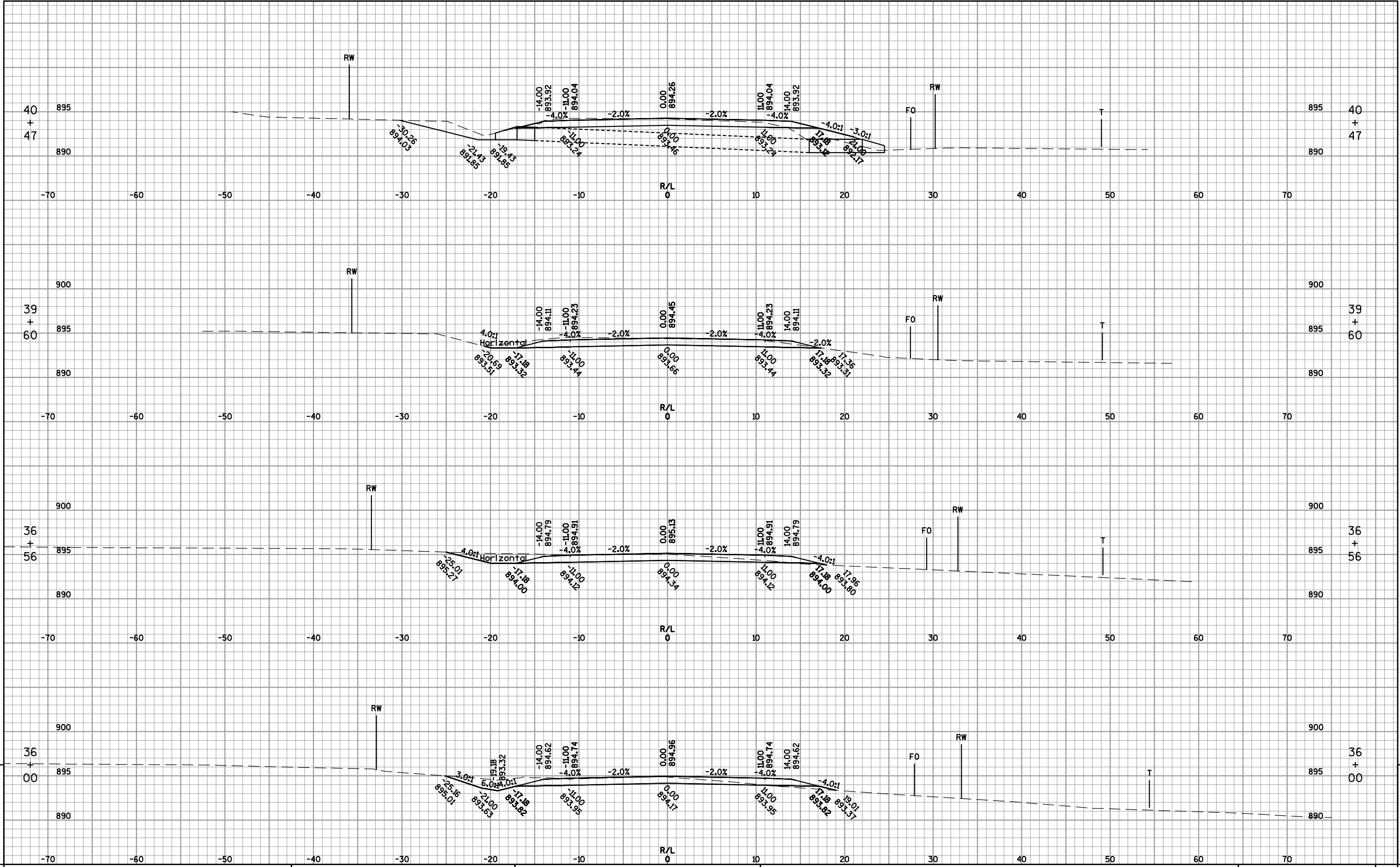
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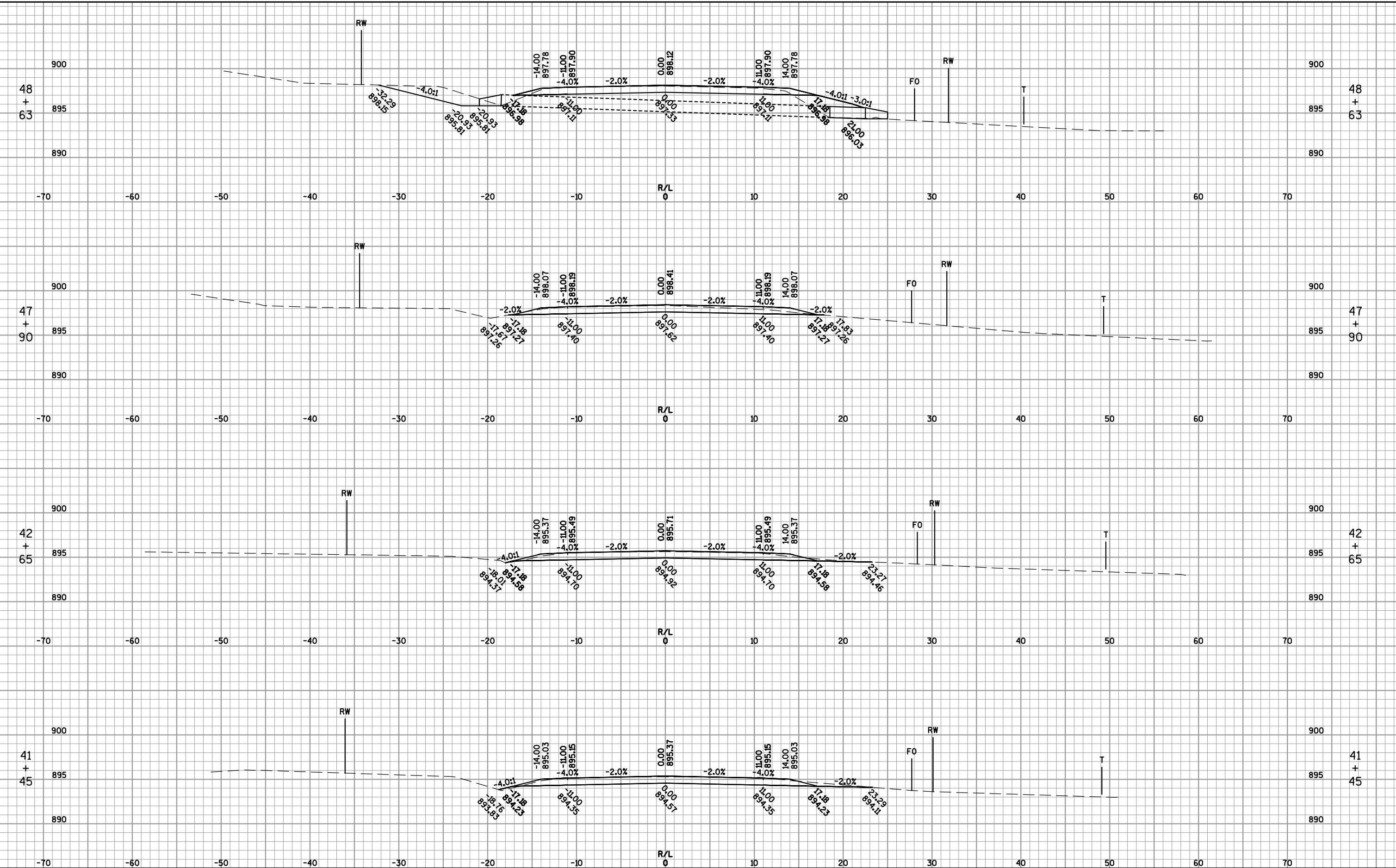


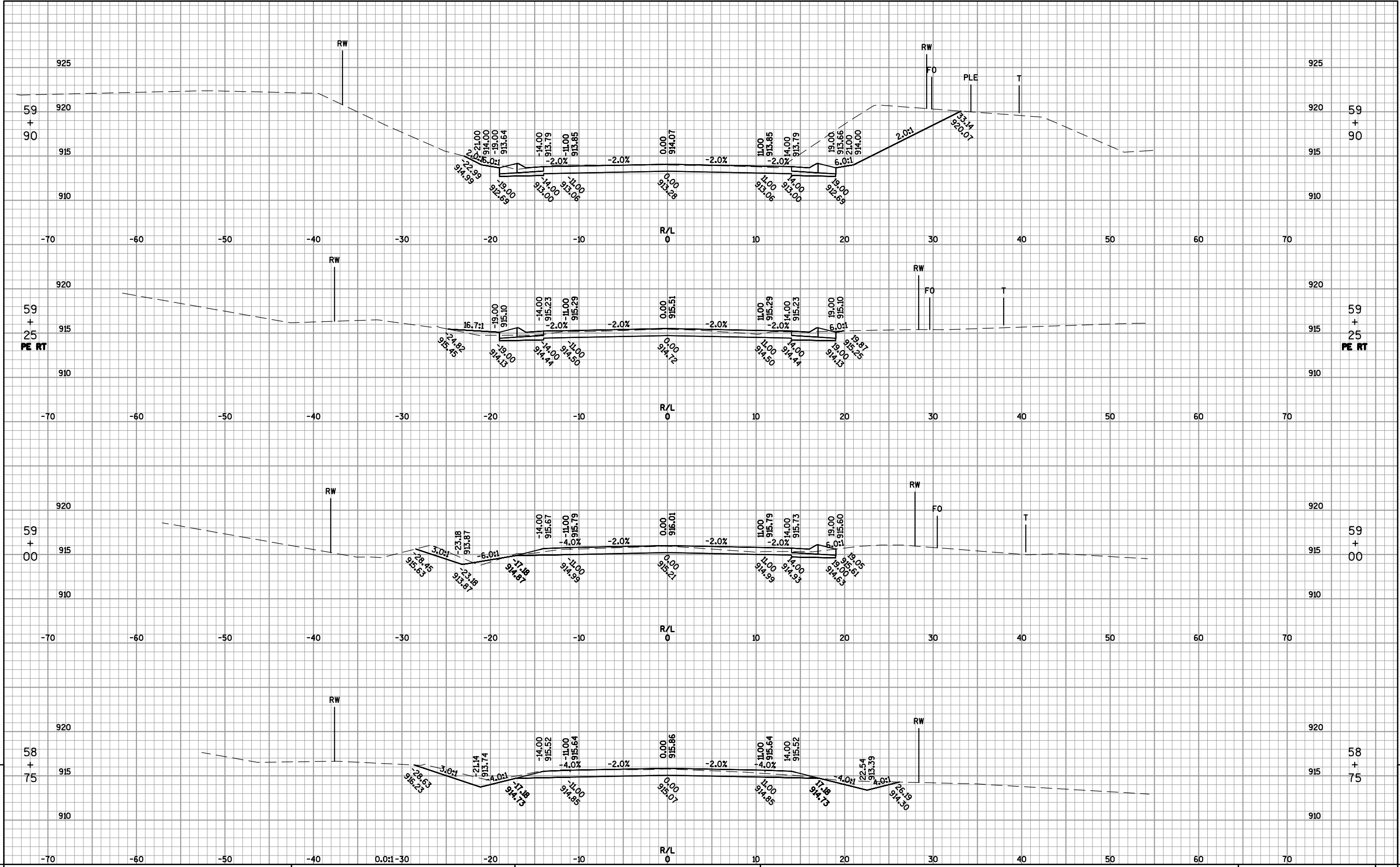
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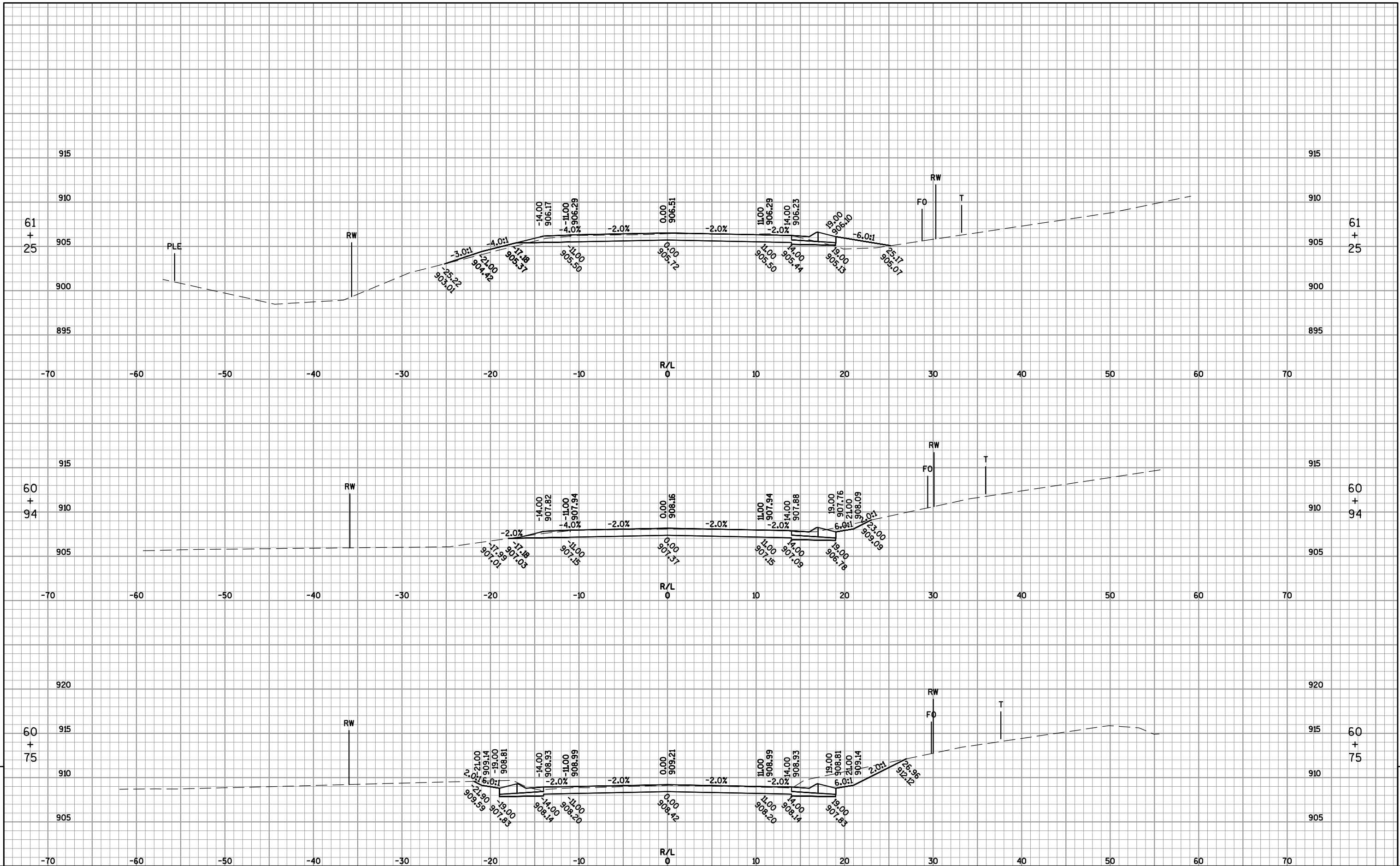


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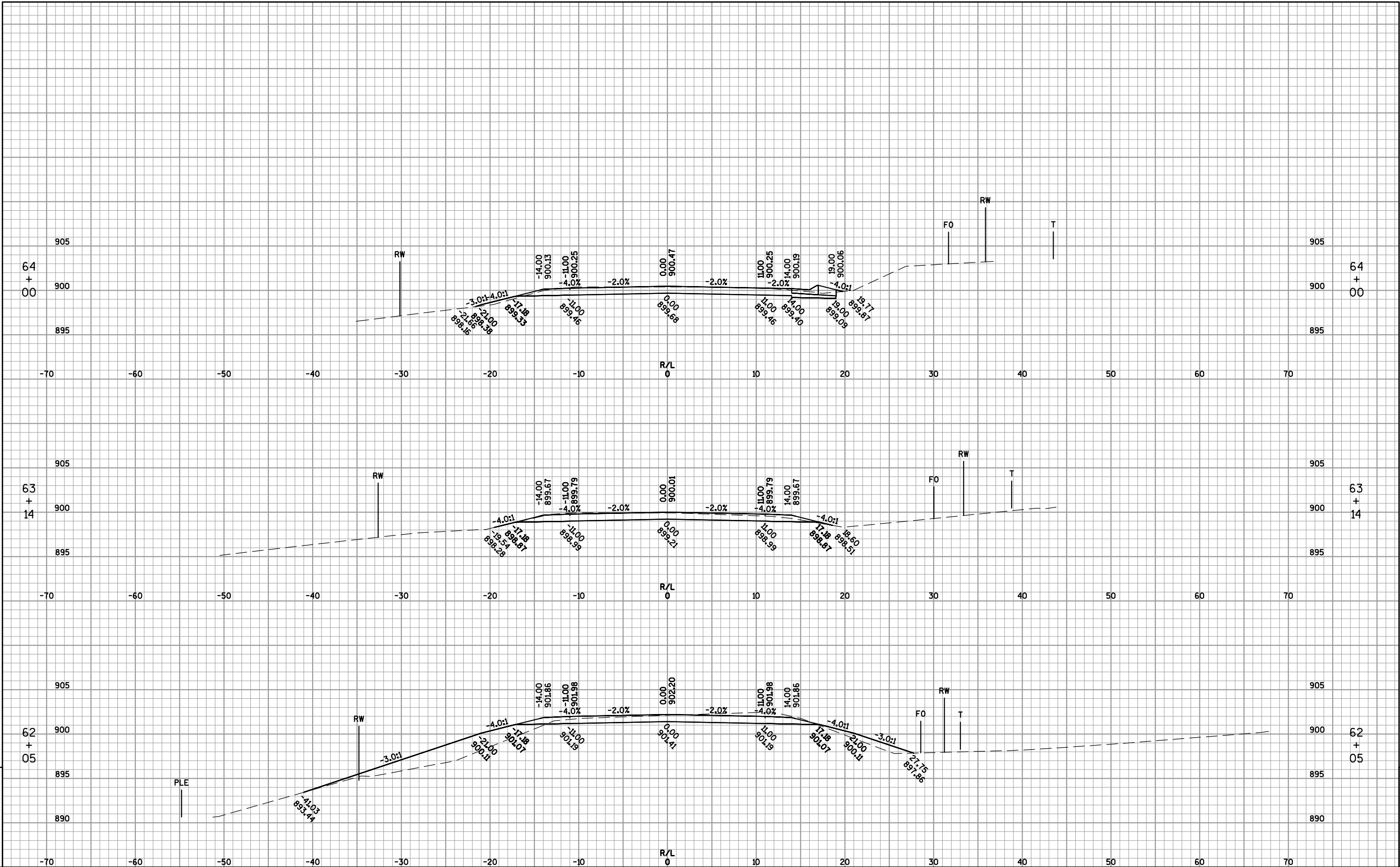




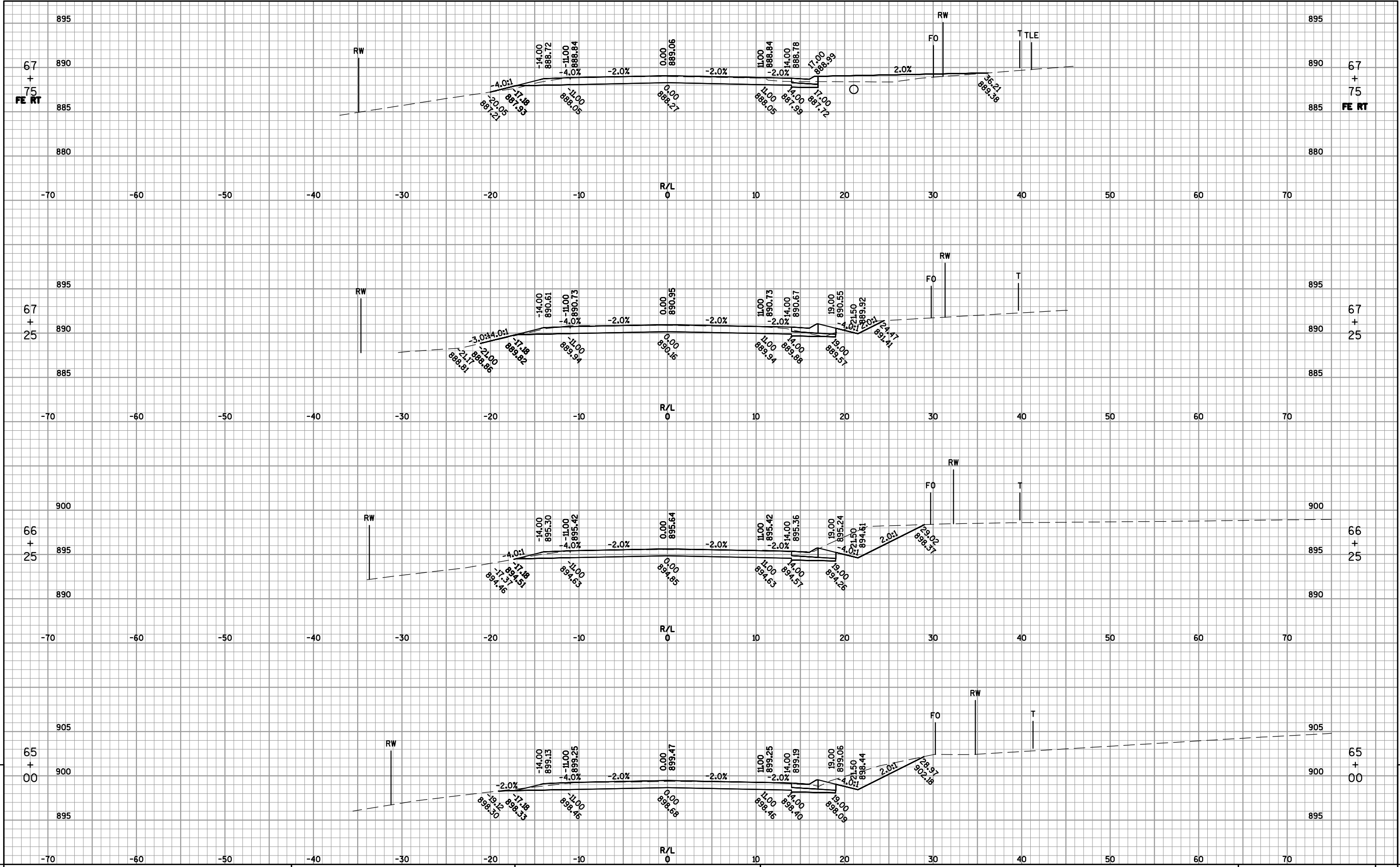


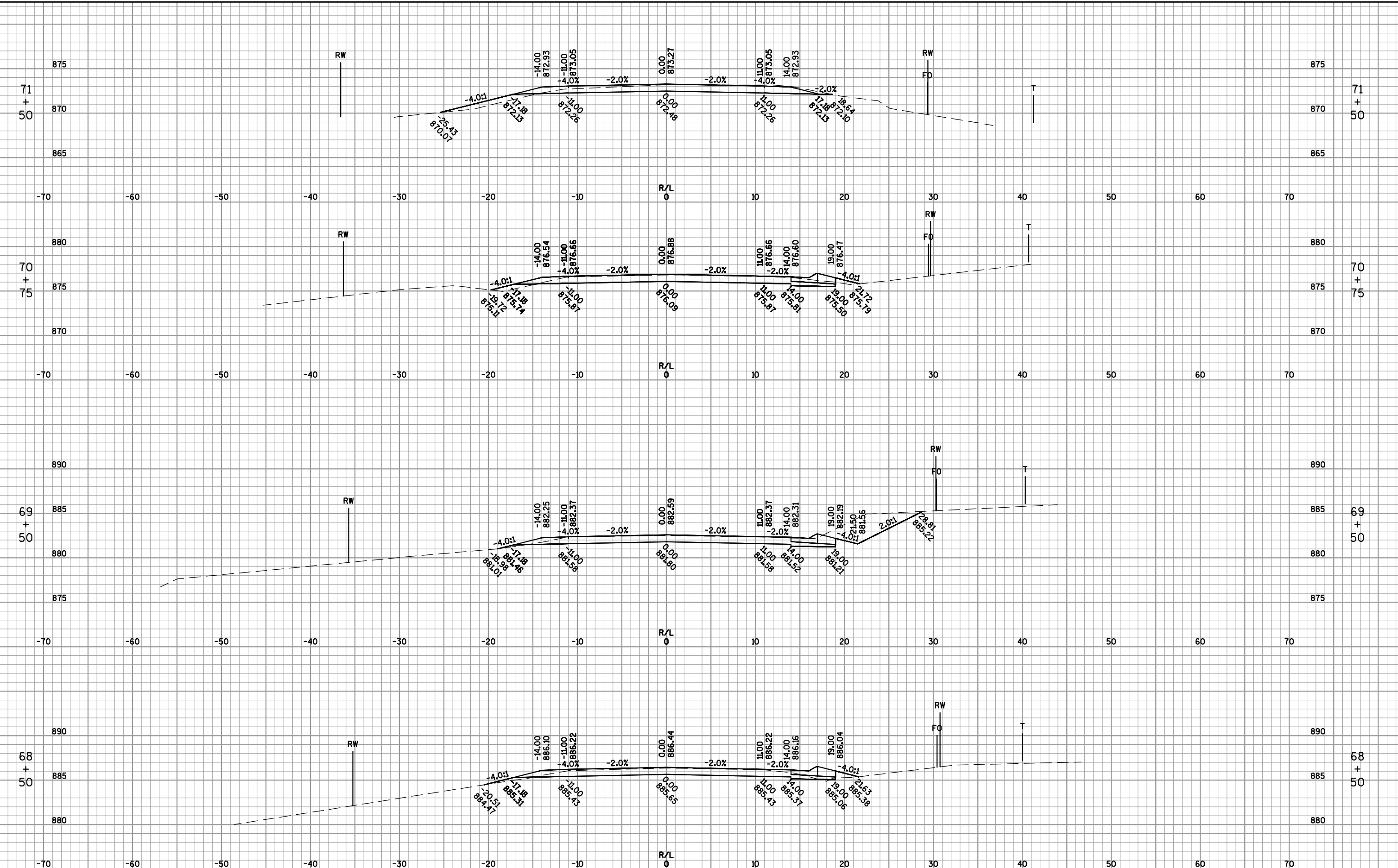


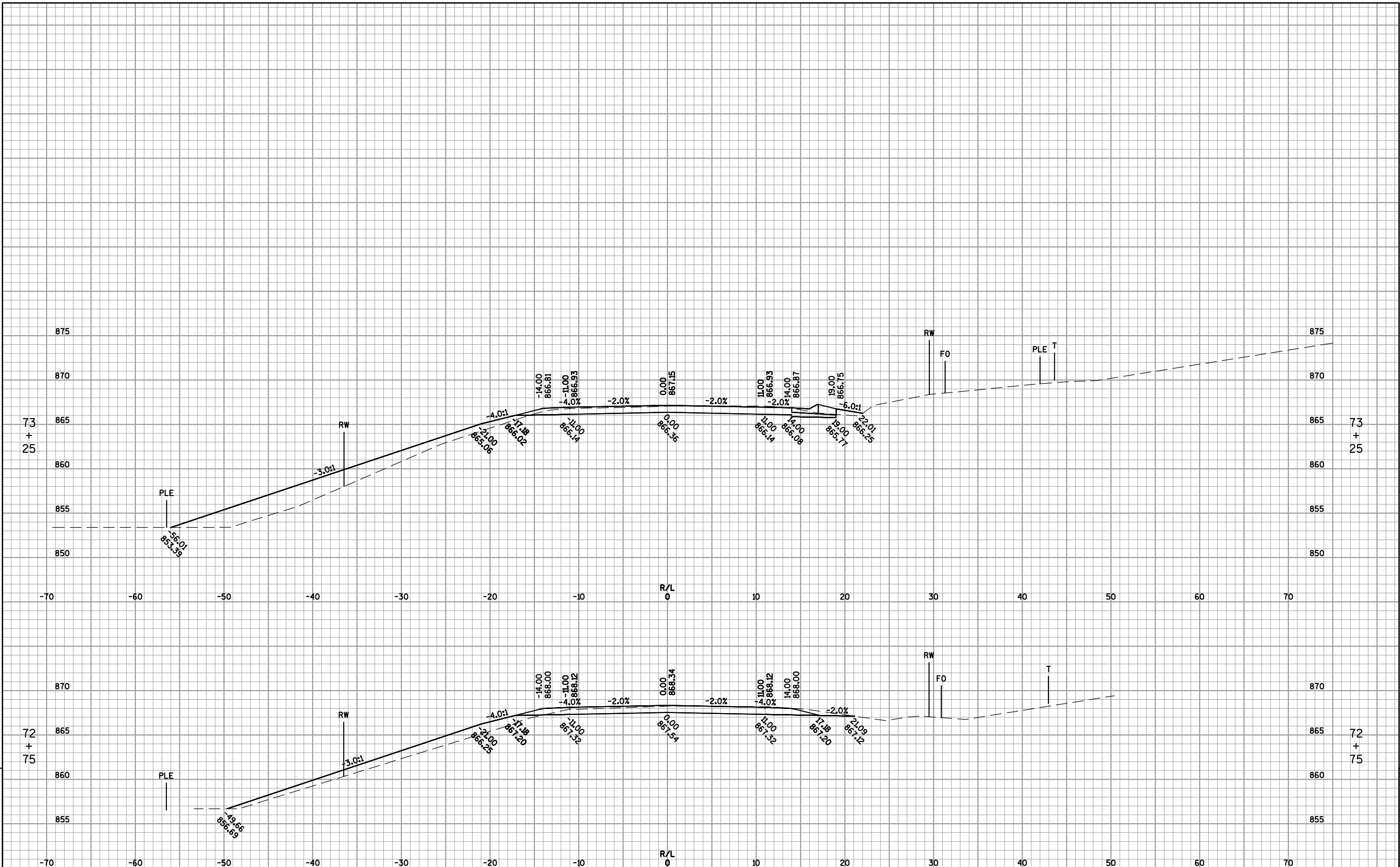
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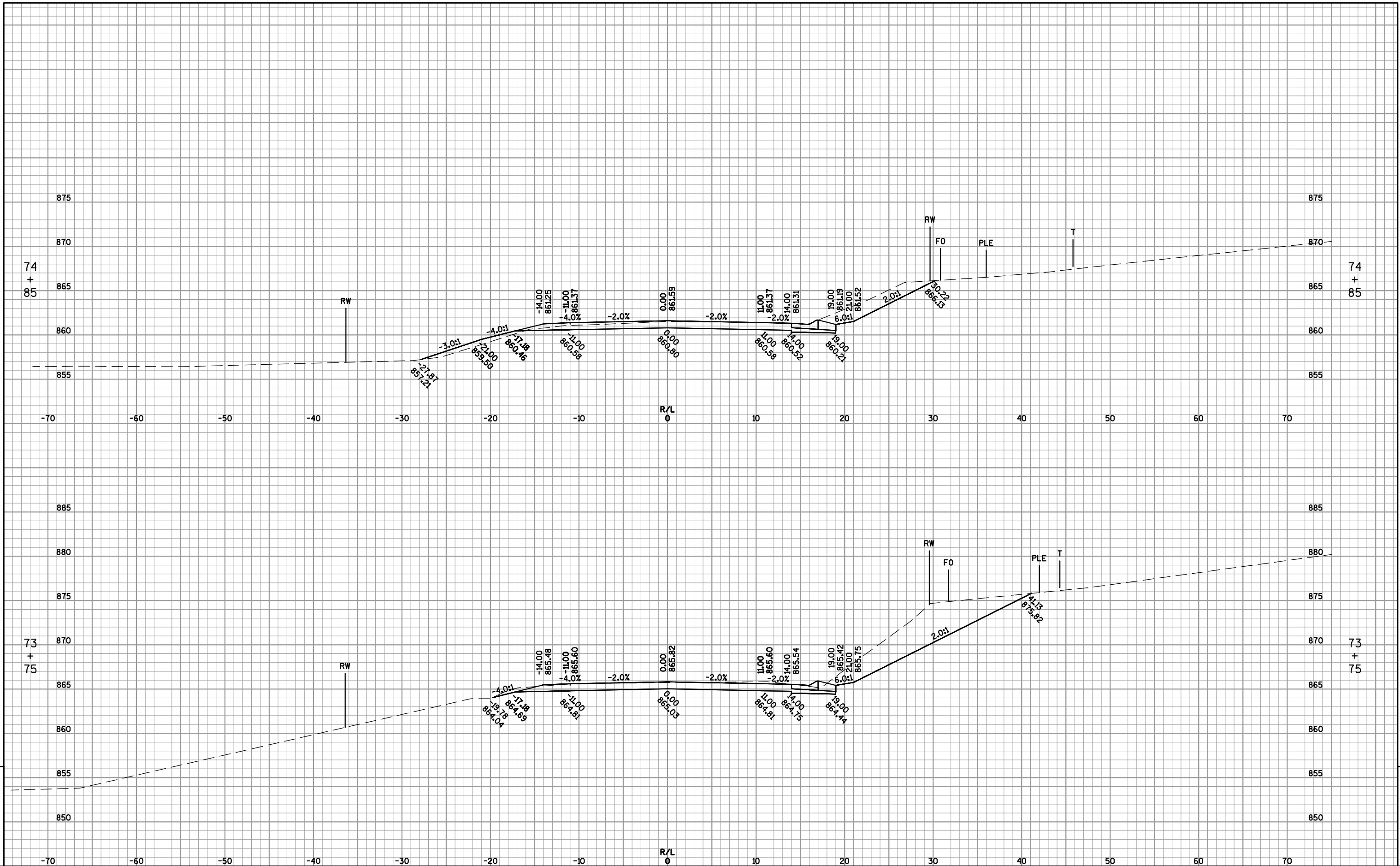


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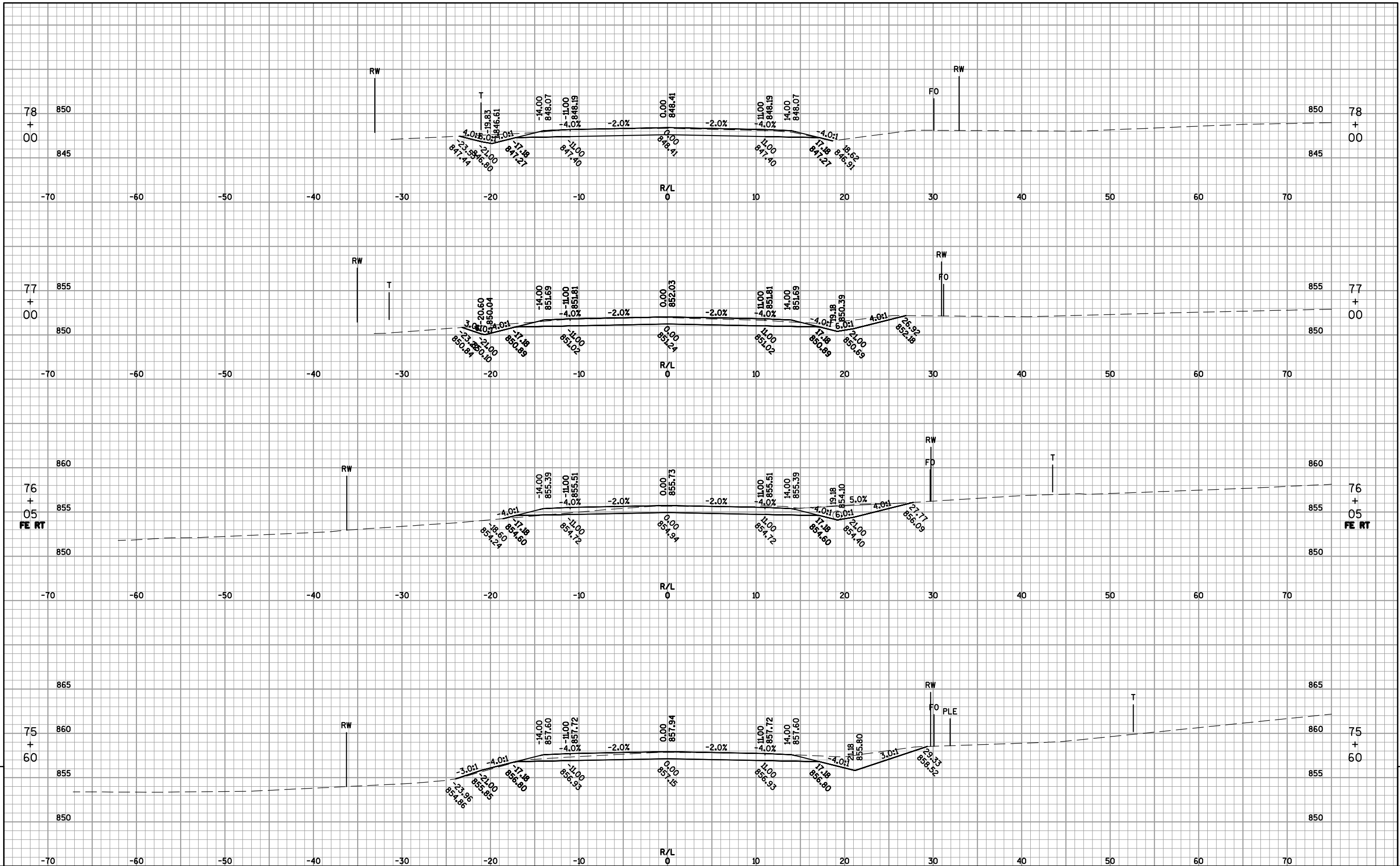




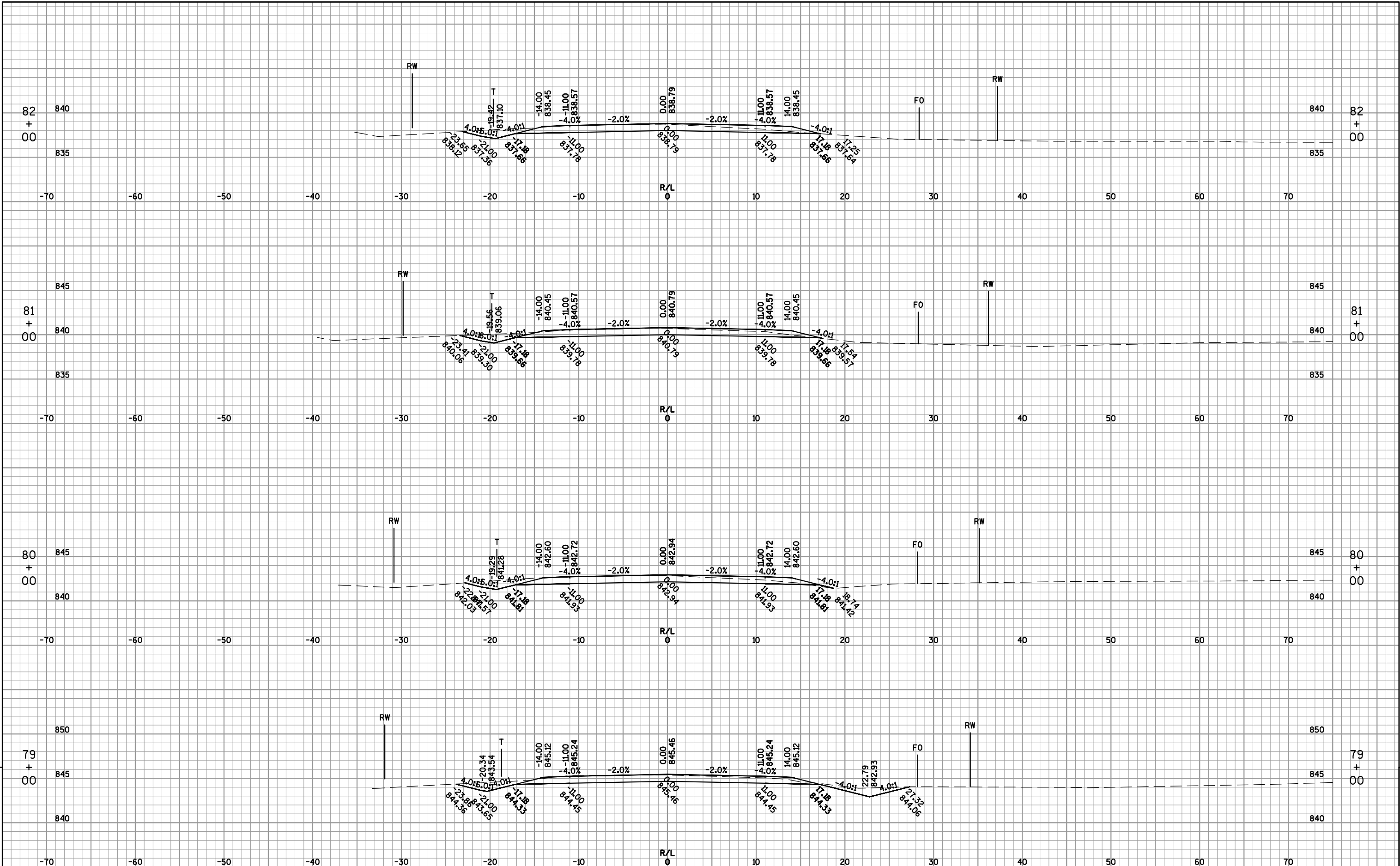


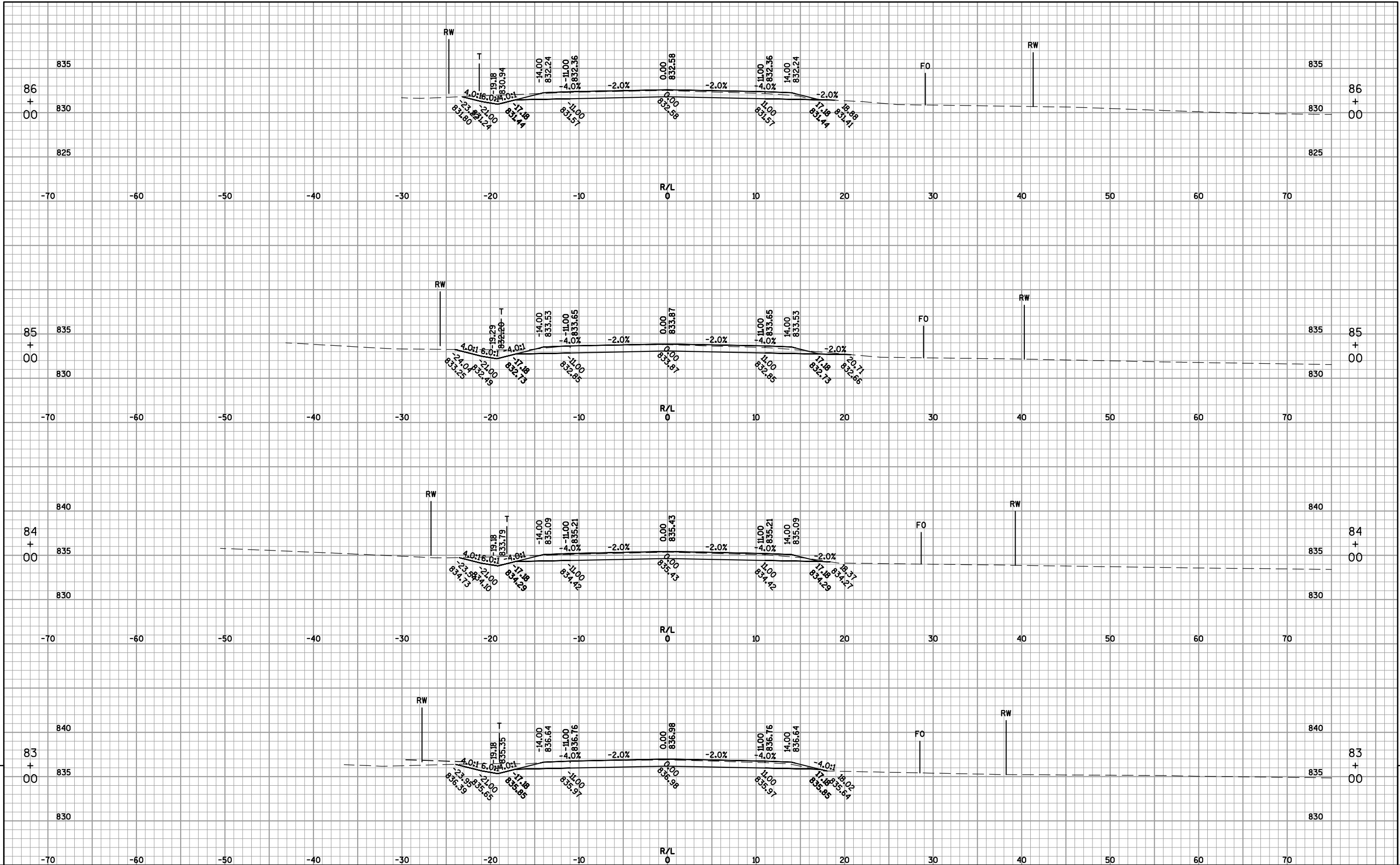


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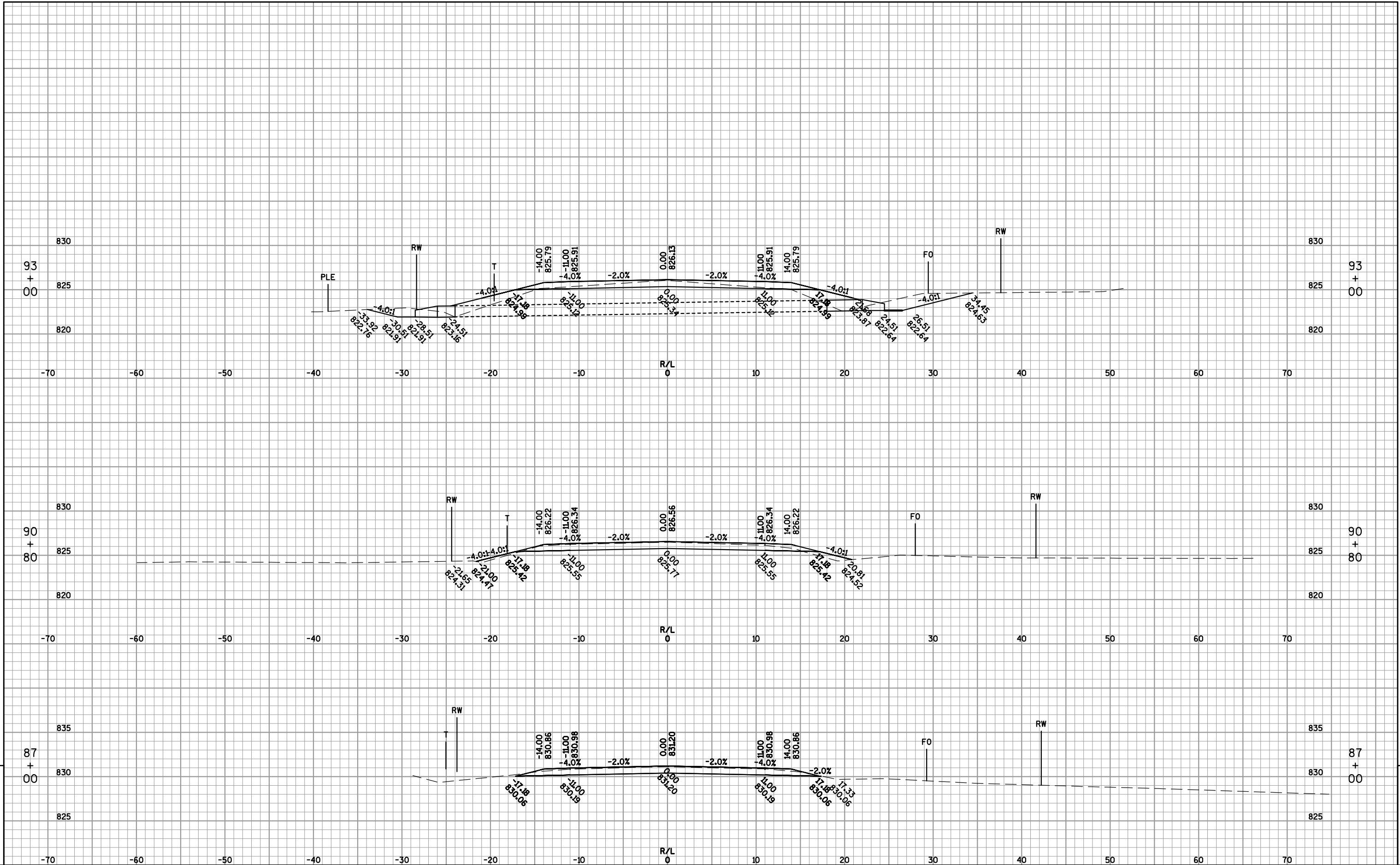


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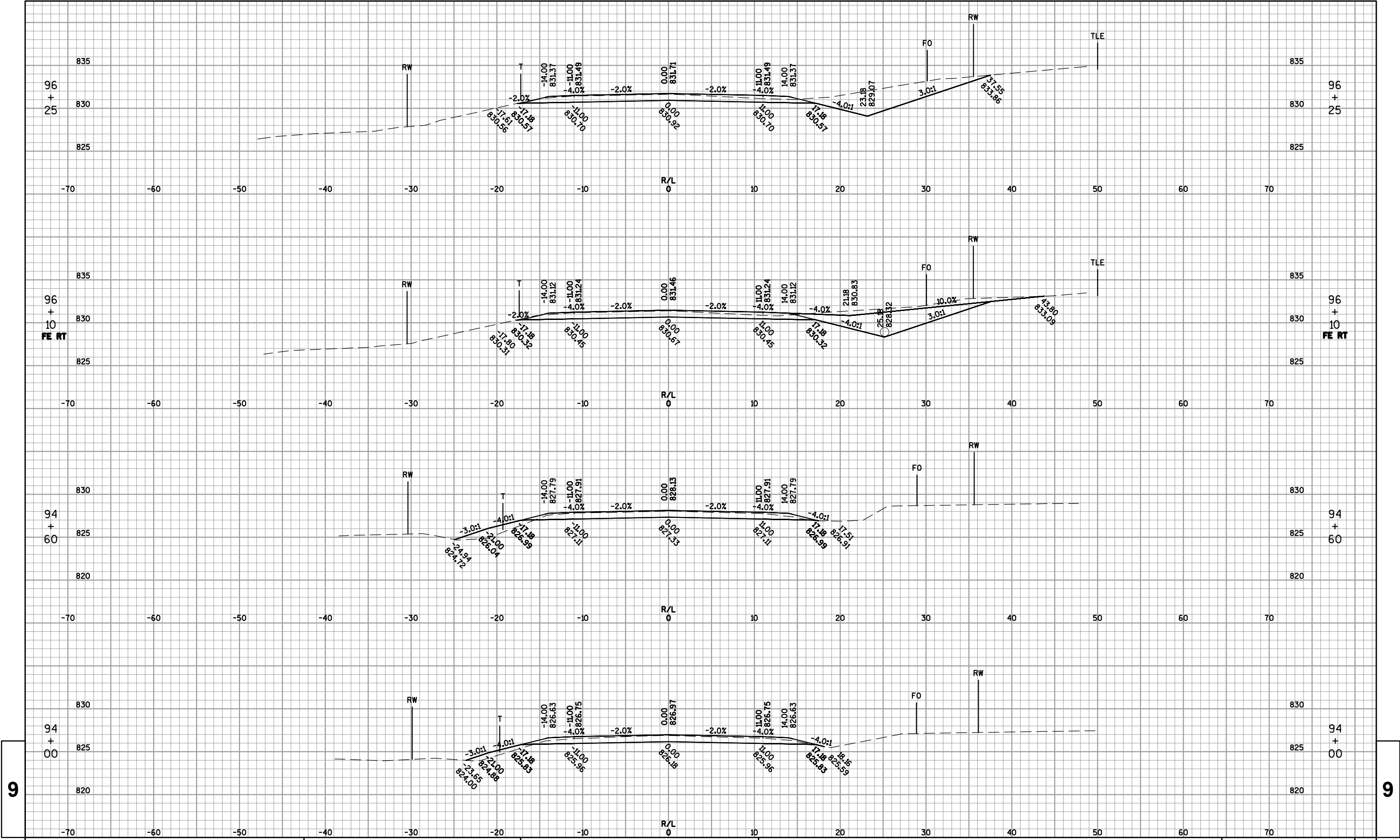




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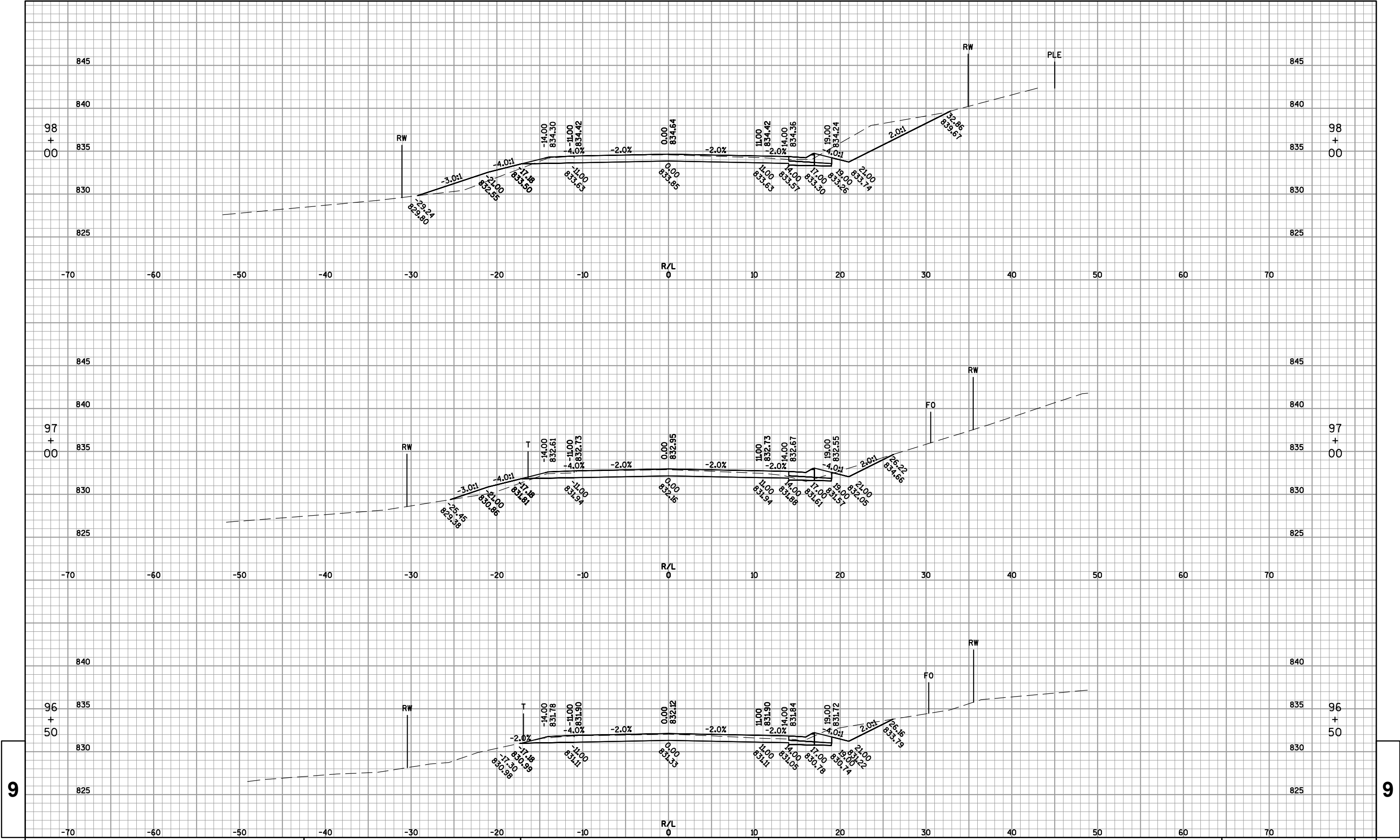


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PROJECT NO: 6910-00-70

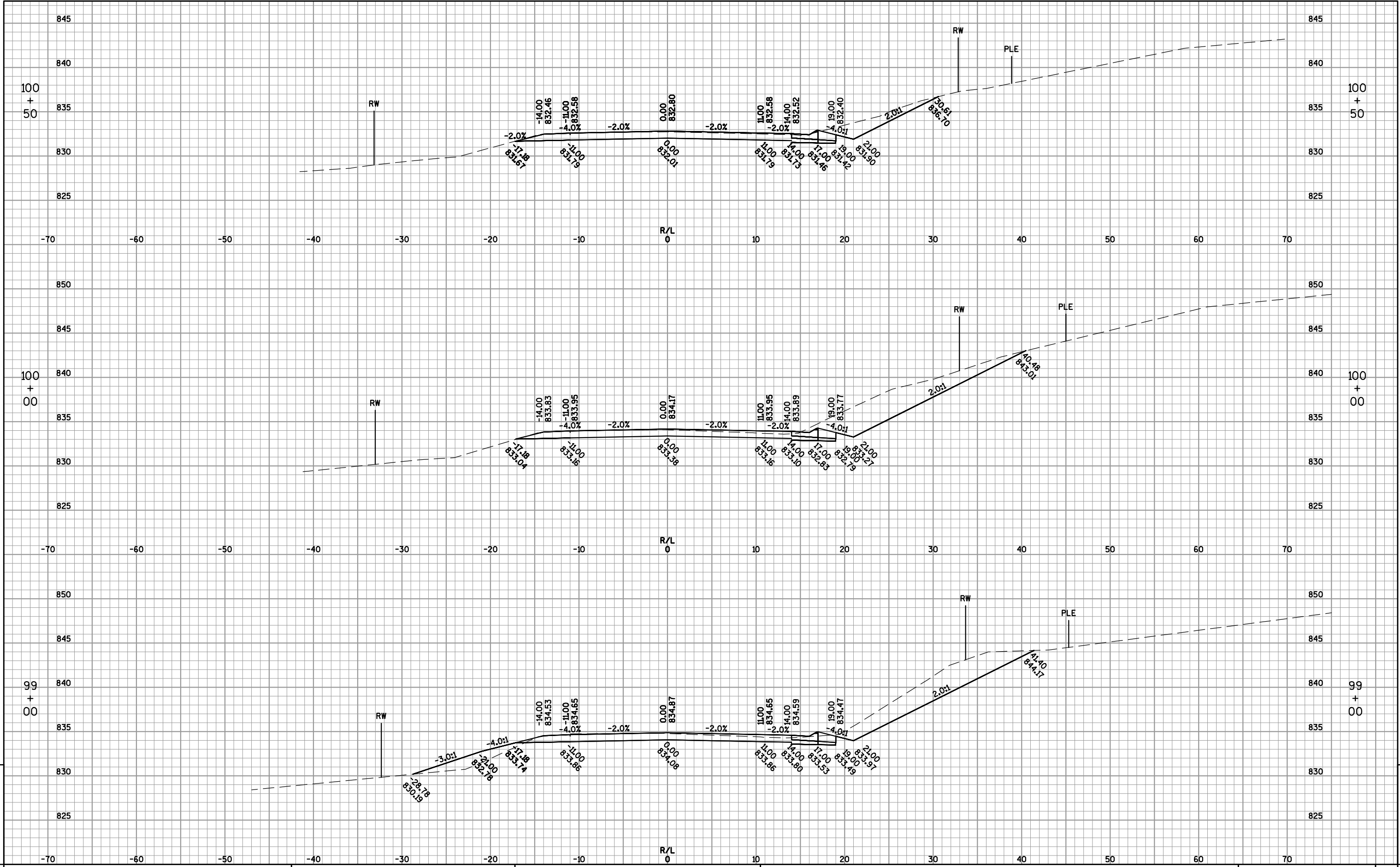
HWY: CTH H

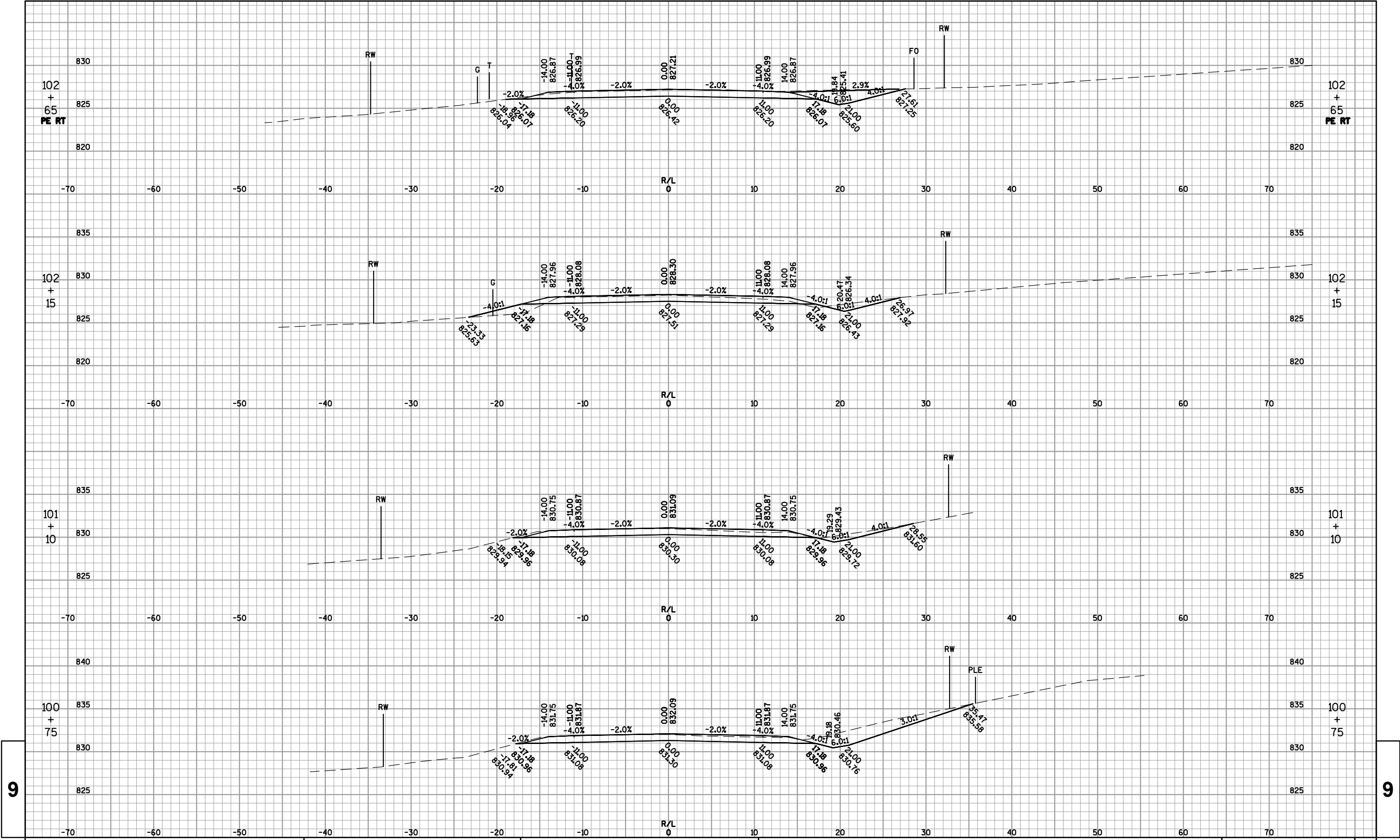
COUNTY: WAUSHARA

CROSS SECTIONS: CTH H

SHEET

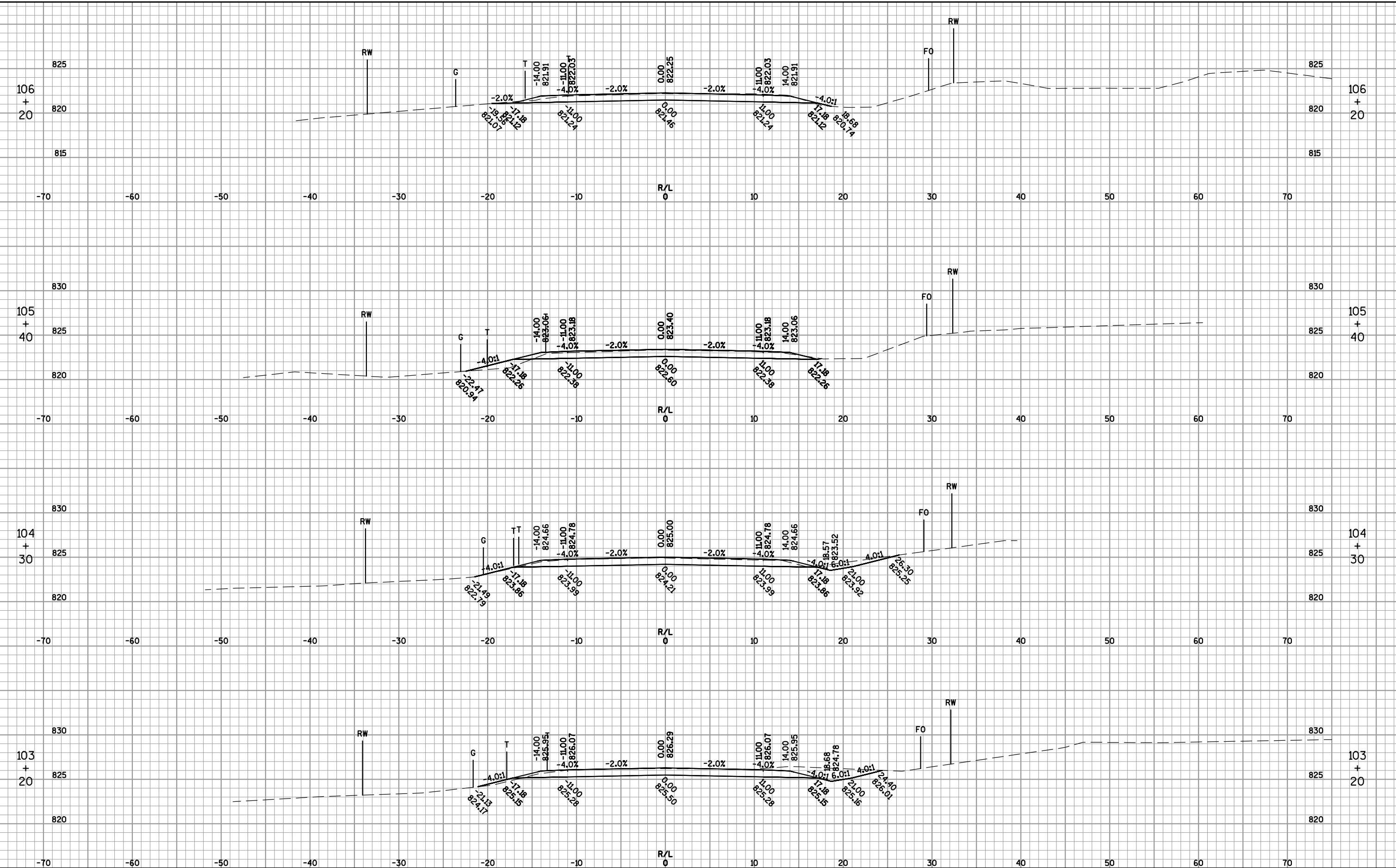
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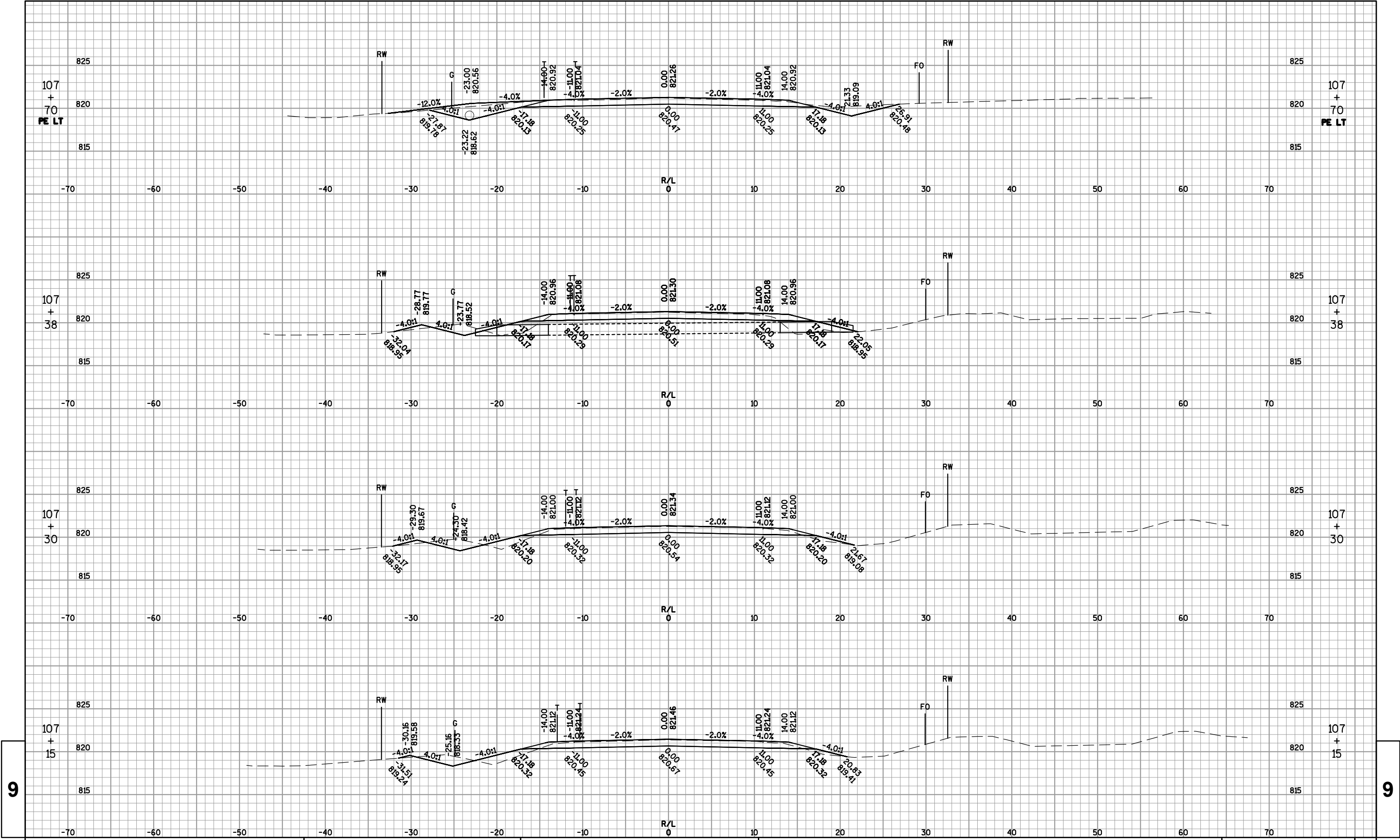


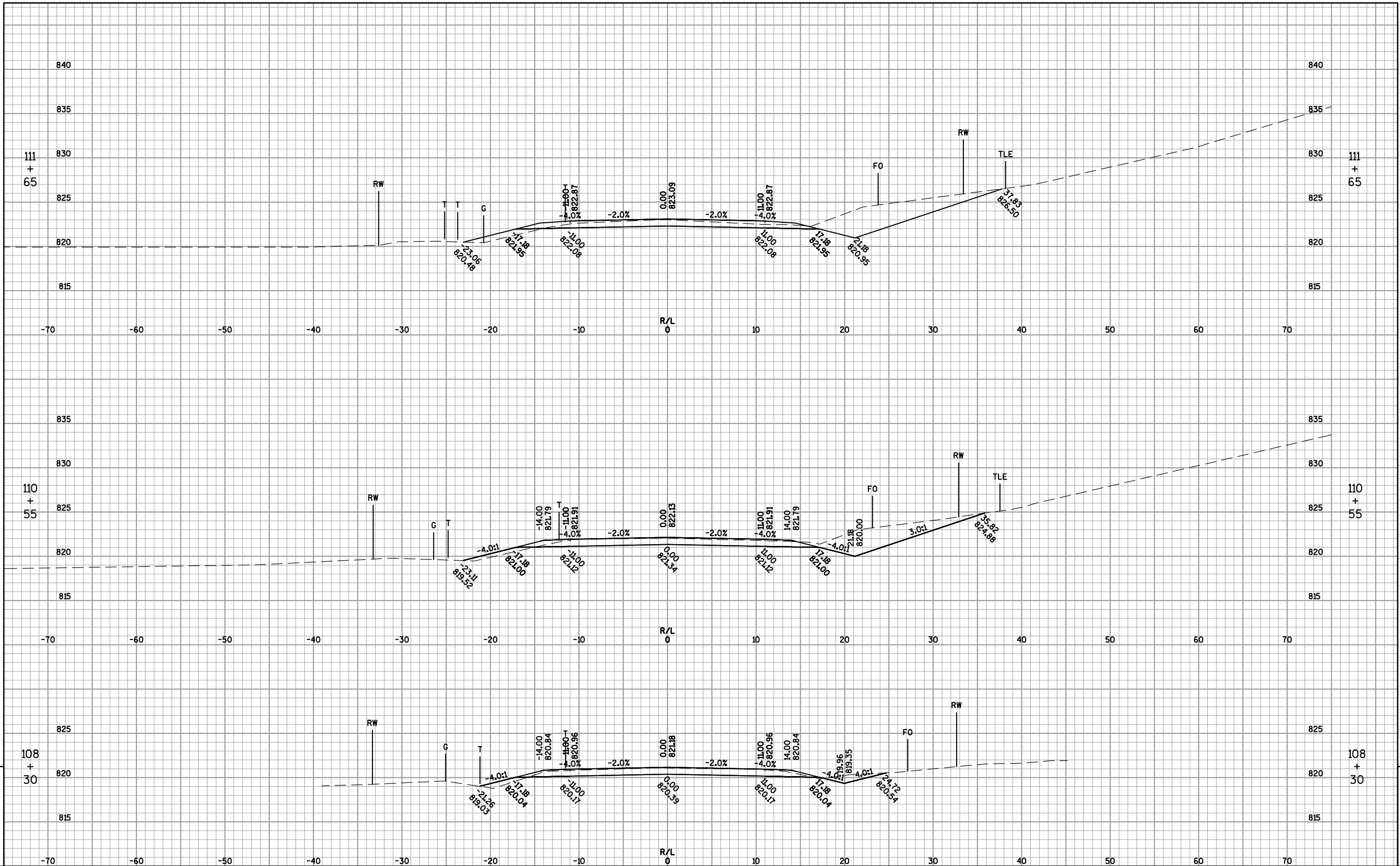


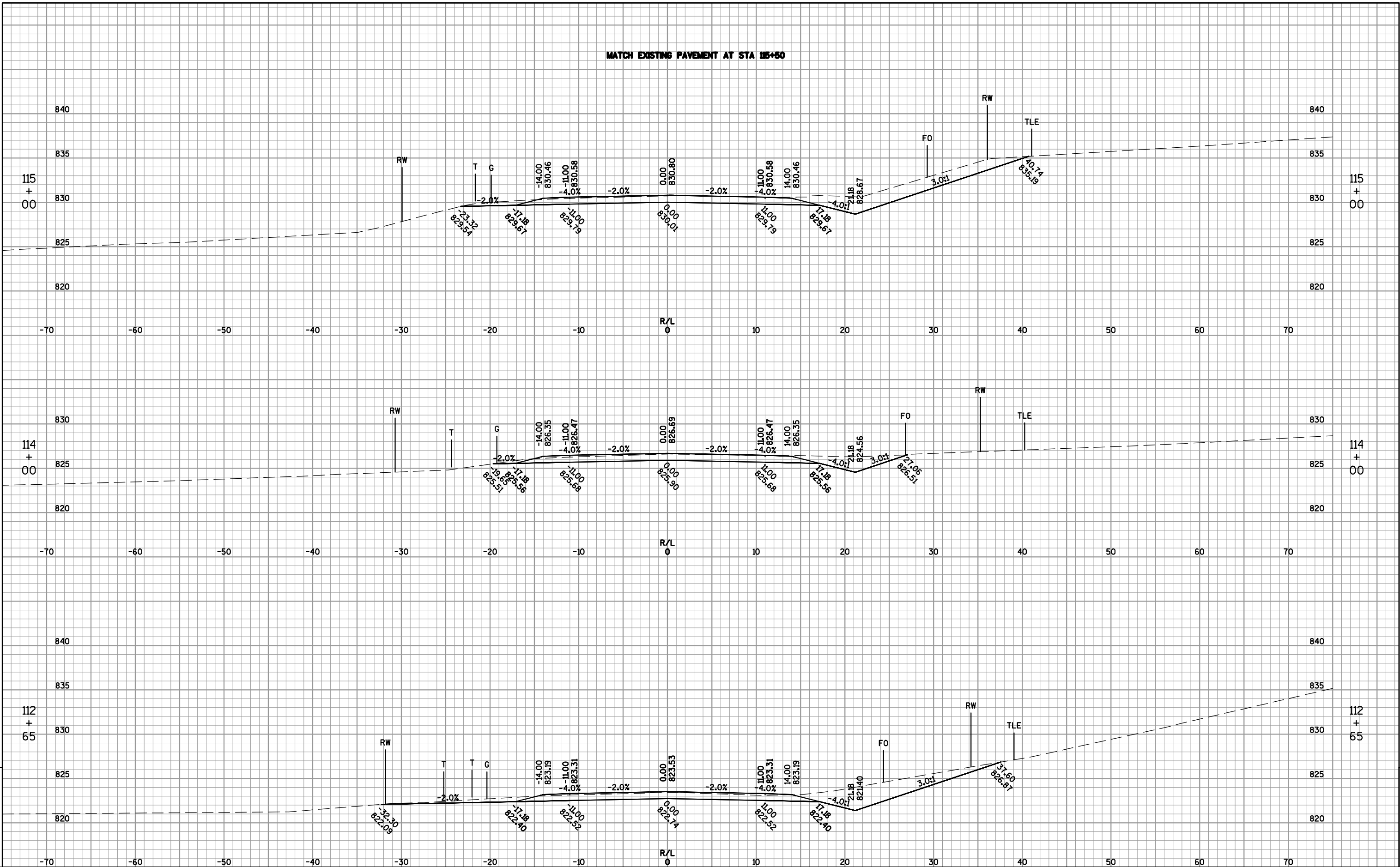
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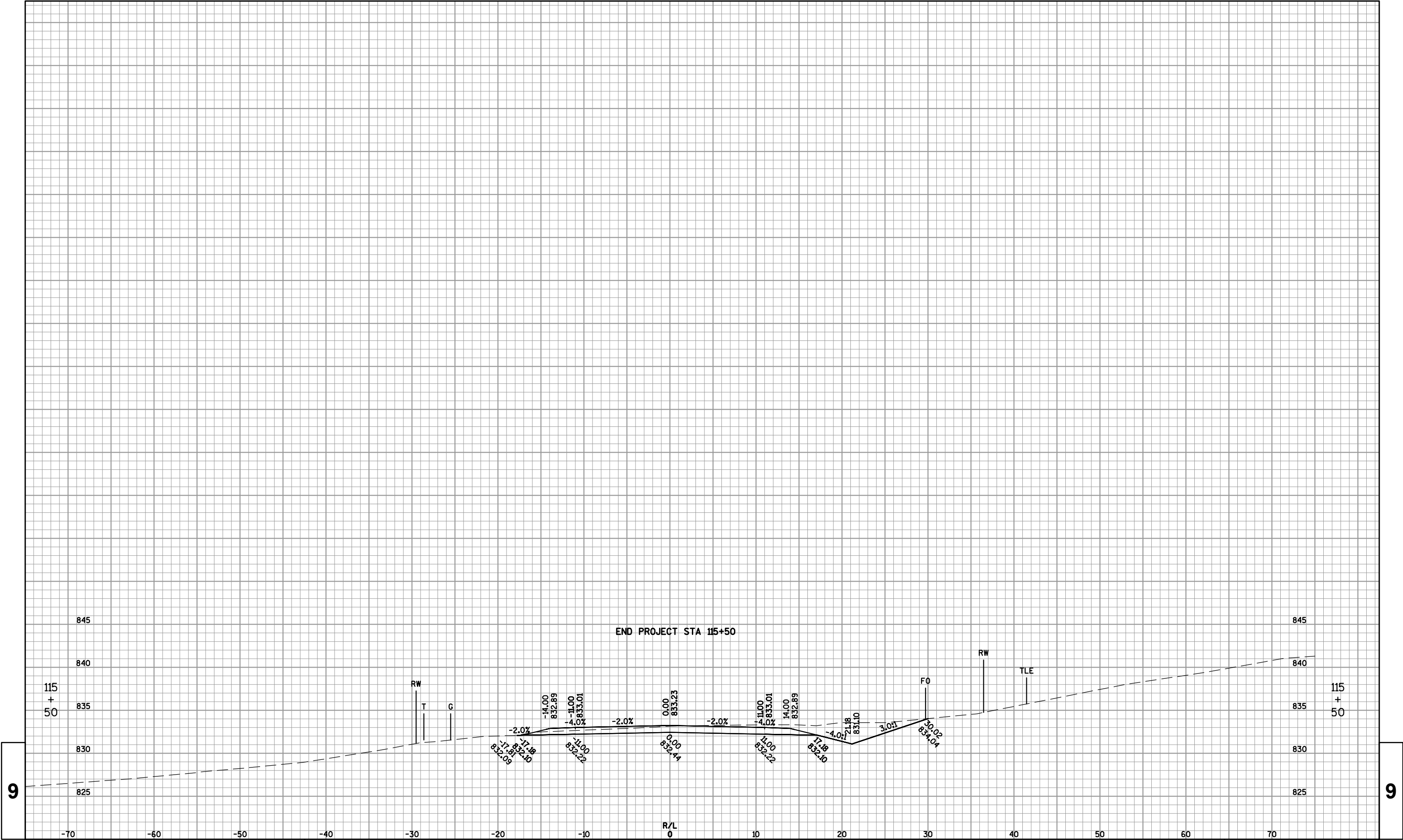
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PROJECT NO: 6910-00-70

HWY: CTH H

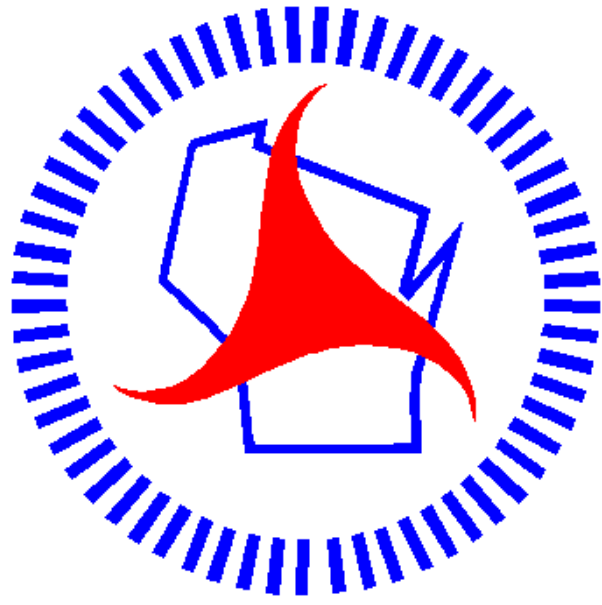
COUNTY: WAUSHARA

CROSS SECTIONS: CTH H

SHEET

E

Notes



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