

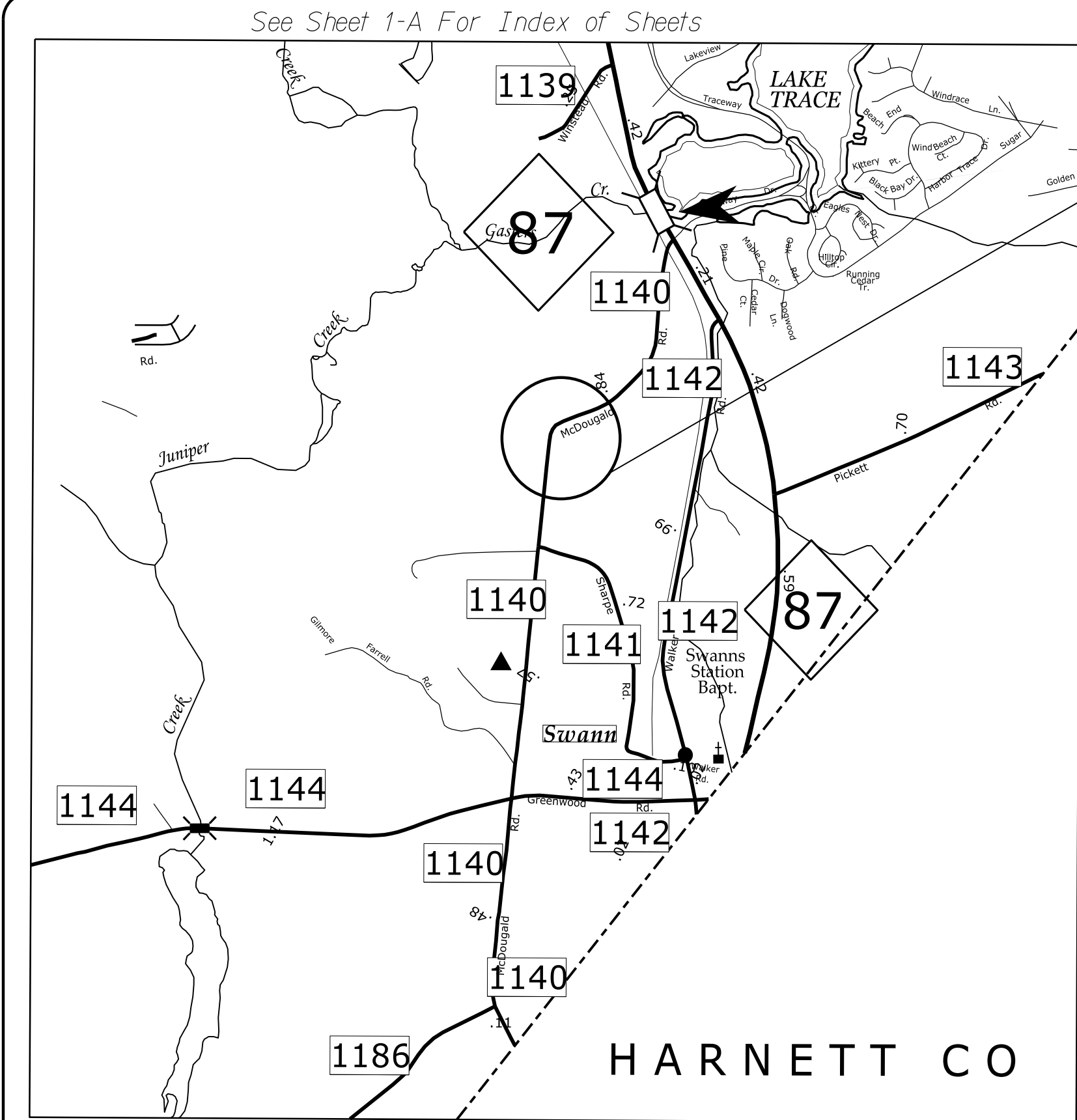
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03-MAY-2018 16:09  
Z:\RDY\LEE\sr\_1140\frank\_wicker\_r.d\psh\sr\_1140\_t.sh.dgn  
gsdavis AT DIV8-304810

TIP PROJECT:W-5708C PROJECT: SR 1140 (FRANK WICKER RD)



VICINITY MAP

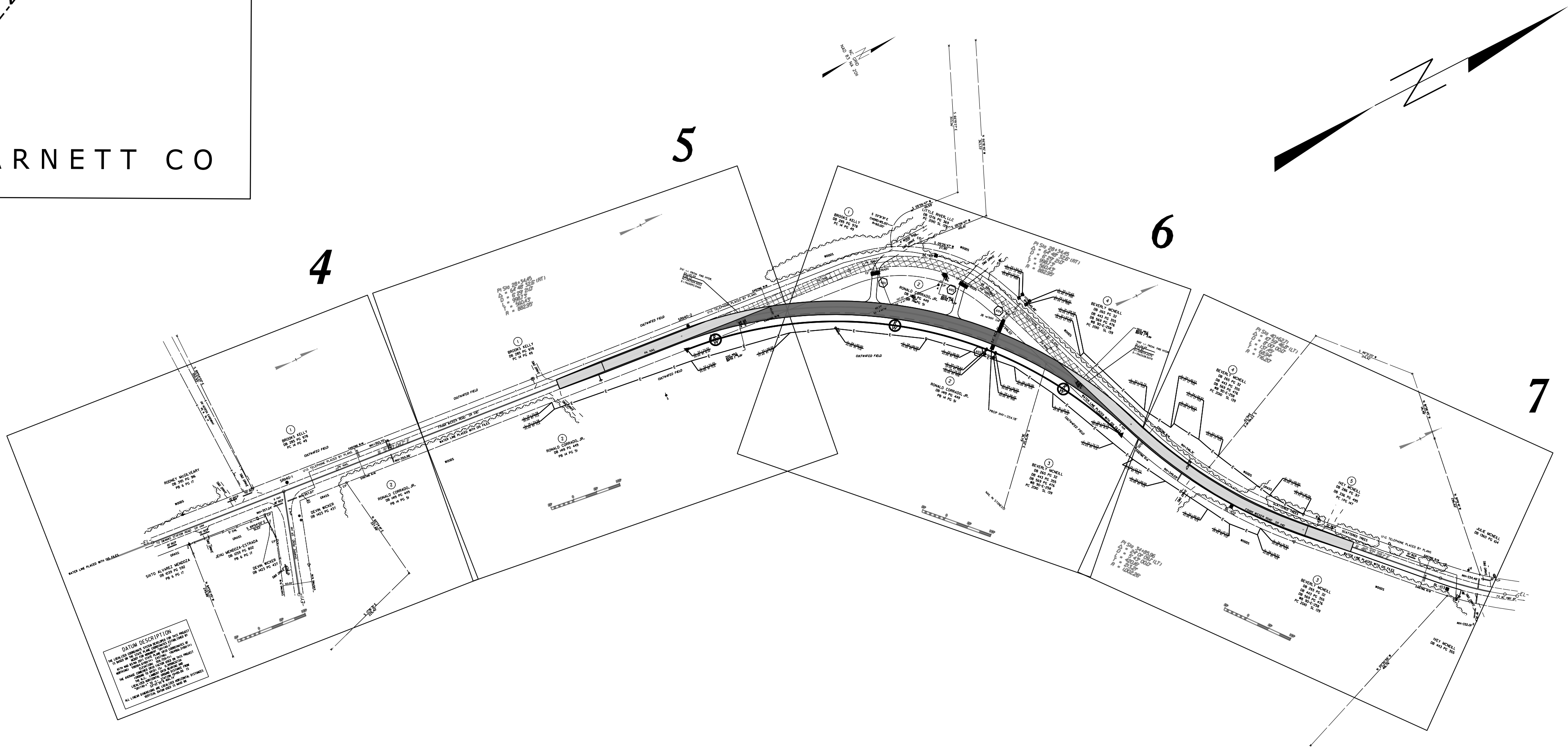
PROJECT  
LOCATION

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

LEE COUNTY

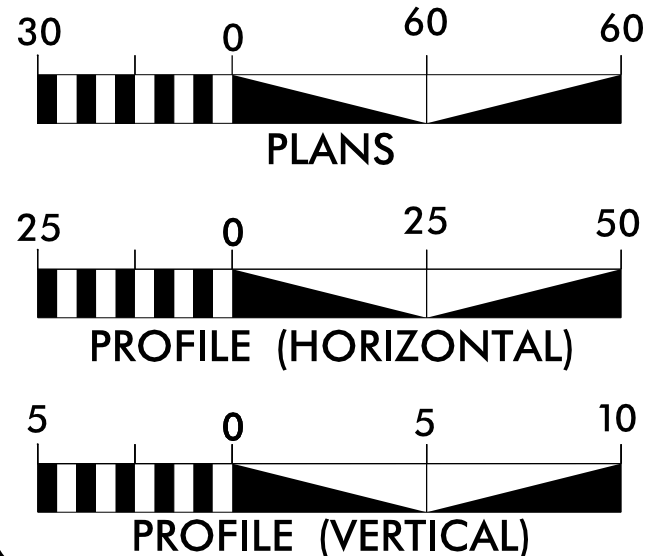
SR 1140 (FRANK WICKER ROAD)  
EAST OF NC 87

TYPE OF WORK: GRADING, PAVING, AND THERMOPLASTIC  
MARKINGS & MARKERS



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2016 = 1600  
ADT 2038 = 3300  
V = 55 MPH

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
**DIVISION 8 DESIGN & CONSTRUCT UNIT**  
**902 N. SANDHILLS BLVD.**  
**ABERDEEN NC 28315**

PLANS PREPARED BY: DDC

PROJECT LENGTH

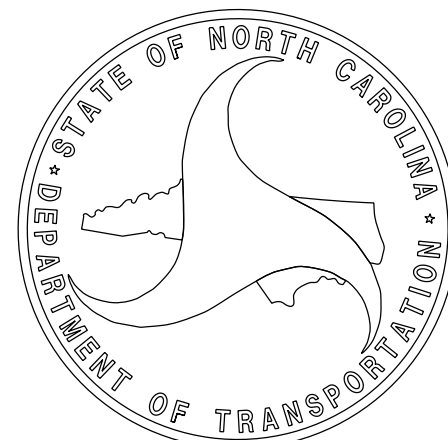
ROADWAY: 0.34 MILES  
STRUCTURE: MILES  
TOTAL: 0.34 MILES

DIVISION OF HIGHWAYS

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE:  
May 22, 2018



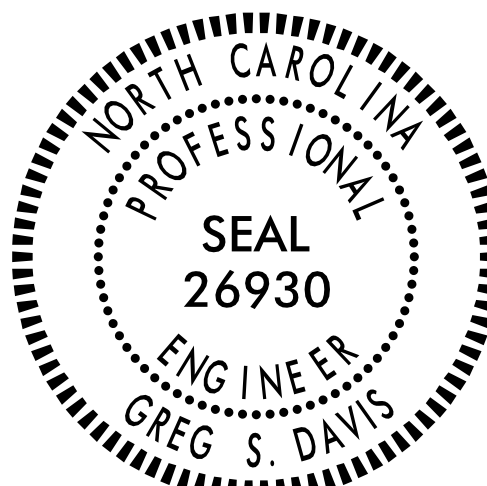
HYDRAULICS ENGINEER

SIGNATURE: P.E.

DIVISION DESIGN  
ENGINEER

DocuSigned by:  
Greg S. Davis  
3304785FD78FAA8  
SIGNATURE: P.E.

5/3/2018





INDEX OF SHEETS	
SHEET NUMBER	SHEET
1 .....	TITLE SHEET
1-A .....	INDEX OF SHEETS
1-B .....	CONVENTIONAL SYMBOLS
1-C .....	SURVEY CONTROL
2 .....	TYPICAL SECTIONS
3 THRU 3-A .....	SUMMARY OF QUANTITIES
3-B .....	SUMMARY OF EARTHWORKS, ETC.
3-C .....	LIST OF PIPES, ETC.
4 THRU 7 .....	W-5708C PLAN SHEETS
8 .....	W-5708C PROFILE SHEET
9 THRU 11 .....	RESURFACING MAP & TYPICALS
TMP-1 THRU TMP-7 .....	TRAFFIC MANAGEMENT PLANS
PM-1 THRU PM-3 .....	W-5708C PAVEMENT MARKING PLANS
EC-1 THRU EC-6 .....	W-5708C EROSION CONTROL PLANS
X-A .....	CROSS-SECTION SUMMARY
X-1 THRU X-33 .....	W-5708C CROSS-SECTIONS -L-

GENERAL NOTES

GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE THE PROPER TIE-IN.

CLEARING

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

UTILITIES

ANY RELOCATION OF EXISTING UTILITIES, WILL BE ACCOMPLISHED BY OTHERS PRIOR TO THE DATE OF AVAILABILITY.

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch – N. C. Department of Transportation – Raleigh, N. C., Dated January 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
200.03	Method of Clearing – Method III
225.02	Guide for Grading Subgrade – Secondary and Local
225.04	Method of Obtaining Superelevation – Two Lane Pavement
225.04	Method of Obtaining Superelevation – Two Lane Pavement
300.01	Method of Pipe Installation
560.01	Method of Shoulder Construction – High Side of Superelevated Curve – Method I
560.02	Method of Shoulder Construction – High Side of Superelevated Curve – Method II
840.31	Concrete Junction Box
840.54	Manhole Frame and Cover
876.02	Guide for Rip Rap at Pipe Outlets

PROJECT REFERENCE NO.		SHEET NO.	
2018CPT.08.17.20531 44854.3.3, 47864		1-A	
<div><div>DocuSigned by: <b>Greg S. Davis</b> 33047B5FD78F4A0...</div><div><div>SEAL 26930 ENGINEER GREG S. DAVIS</div><div>5/21/2018</div></div></div>			
DIVISION DESIGN / CONSTRUCT ENGINEER			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin	
Computed Property Corner	
Property Monument	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential	

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	
Sign	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	

HYDROLOGY:

Stream or Body of Water	
Hydro, Pool or Reservoir	
Jurisdictional Stream	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Wetland	
Proposed Lateral, Tail, Head Ditch	
False Sump	

RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

Note: Not to Scale

\*S.U.E. = Subsurface Utility Engineering

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	
Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Exist Permanent Easment Pin and Cap	
New Permanent Easement Pin and Cap	
Vertical Benchmark	
Existing Right of Way Marker	
Existing Right of Way Line	
New Right of Way Line	
New Right of Way Line with Pin and Cap	
New Right of Way Line with Concrete or Granite R/W Marker	
New Control of Access Line with Concrete C/A Marker	
Existing Control of Access	
New Control of Access	
Existing Easement Line	
New Temporary Construction Easement	
New Temporary Drainage Easement	
New Permanent Drainage Easement	
New Permanent Drainage / Utility Easement	
New Permanent Utility Easement	
New Temporary Utility Easement	
New Aerial Utility Easement	

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	

VEGETATION:

Single Tree	
Single Shrub	

Hedge	
Woods Line	
Orchard	
Vineyard	

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

UTILITIES:

POWER:	
Existing Power Pole	
Proposed Power Pole	
Existing Joint Use Pole	
Proposed Joint Use Pole	
Power Manhole	
Power Line Tower	
Power Transformer	
U/G Power Cable Hand Hole	
H-Frame Pole	
U/G Power Line LOS B (S.U.E.*)	
U/G Power Line LOS C (S.U.E.*)	
U/G Power Line LOS D (S.U.E.*)	

TELEPHONE:

Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Cable LOS B (S.U.E.*)	
U/G Telephone Cable LOS C (S.U.E.*)	
U/G Telephone Cable LOS D (S.U.E.*)	
U/G Telephone Conduit LOS B (S.U.E.*)	
U/G Telephone Conduit LOS C (S.U.E.*)	
U/G Telephone Conduit LOS D (S.U.E.*)	
U/G Fiber Optics Cable LOS B (S.U.E.*)	
U/G Fiber Optics Cable LOS C (S.U.E.*)	
U/G Fiber Optics Cable LOS D (S.U.E.*)	

WATER:

Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
U/G Water Line LOS B (S.U.E.*)	
U/G Water Line LOS C (S.U.E.*)	
U/G Water Line LOS D (S.U.E.*)	
Above Ground Water Line	

TV:

TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
U/G TV Cable LOS B (S.U.E.*)	
U/G TV Cable LOS C (S.U.E.*)	
U/G TV Cable LOS D (S.U.E.*)	
U/G Fiber Optic Cable LOS B (S.U.E.*)	
U/G Fiber Optic Cable LOS C (S.U.E.*)	
U/G Fiber Optic Cable LOS D (S.U.E.*)	

GAS:

Gas Valve	
Gas Meter	
U/G Gas Line LOS B (S.U.E.*)	
U/G Gas Line LOS C (S.U.E.*)	
U/G Gas Line LOS D (S.U.E.*)	
Above Ground Gas Line	

SANITARY SEWER:

Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
SS Forced Main Line LOS B (S.U.E.*)	
SS Forced Main Line LOS C (S.U.E.*)	
SS Forced Main Line LOS D (S.U.E.*)	

MISCELLANEOUS:

Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line LOS B (S.U.E.*)	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc.	
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	
U/G Test Hole LOS A (S.U.E.*)	
Abandoned According to Utility Records	
End of Information	

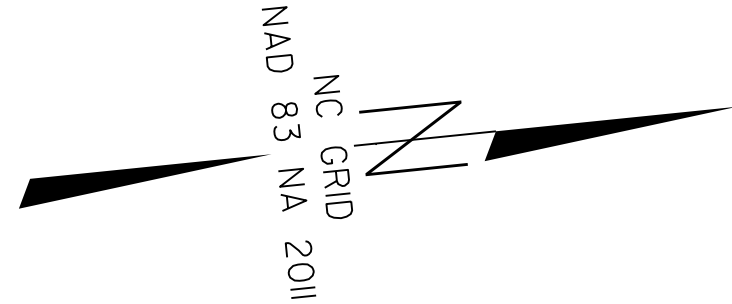


6/2/99

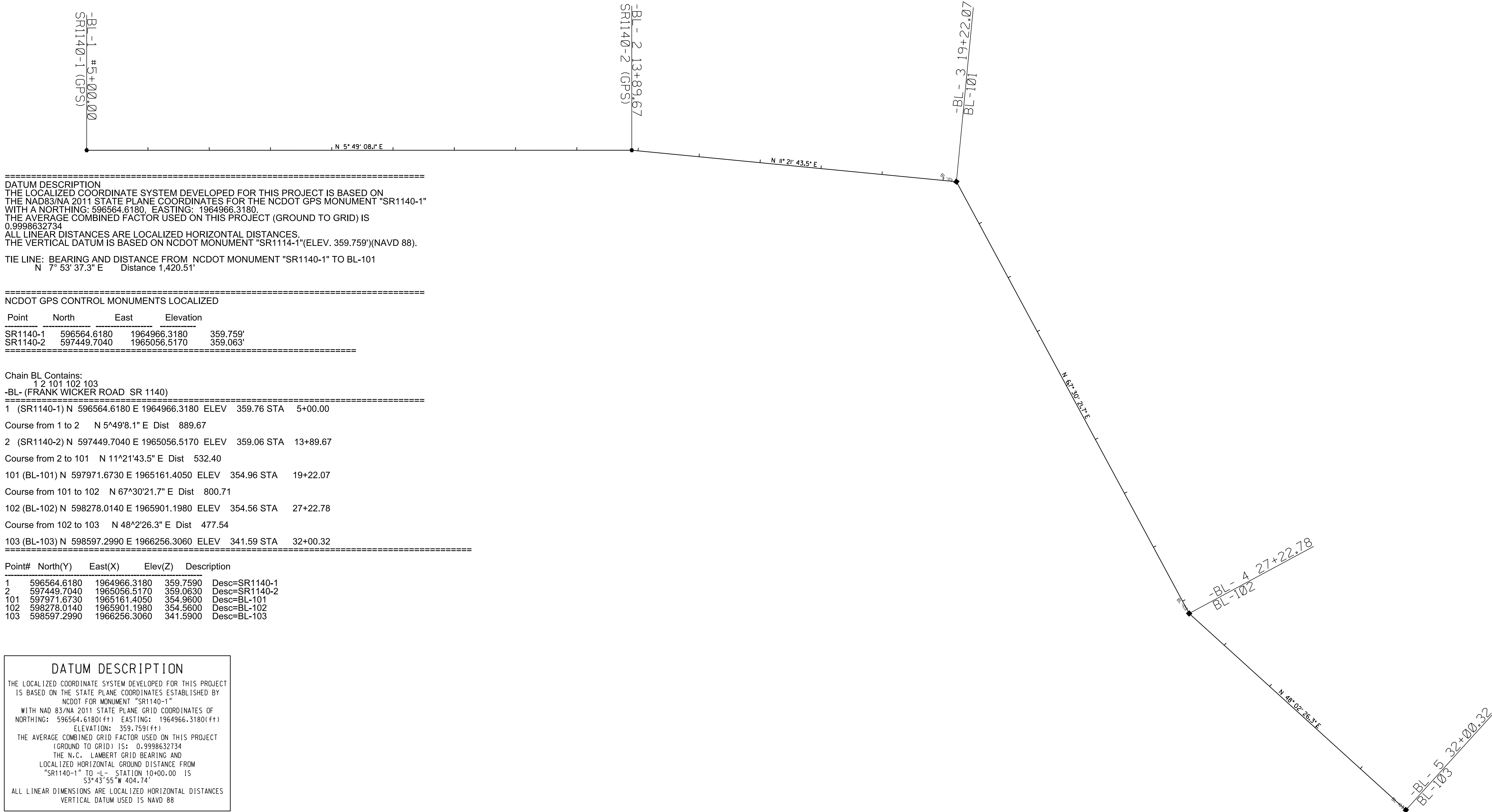
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284418

284418

# SURVEY CONTROL SHEET



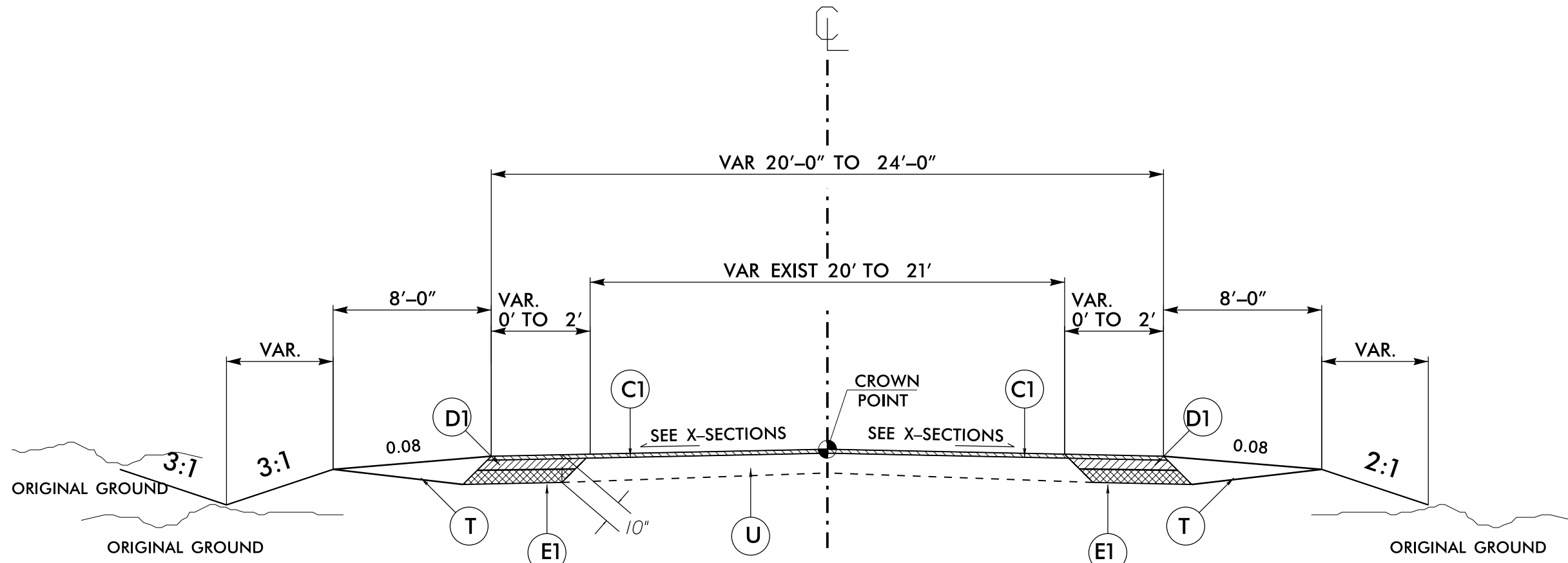
PROJECT REFERENCE NO.		SHEET NO.	
W-5708C		I-C	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	



NOT TO SCALE

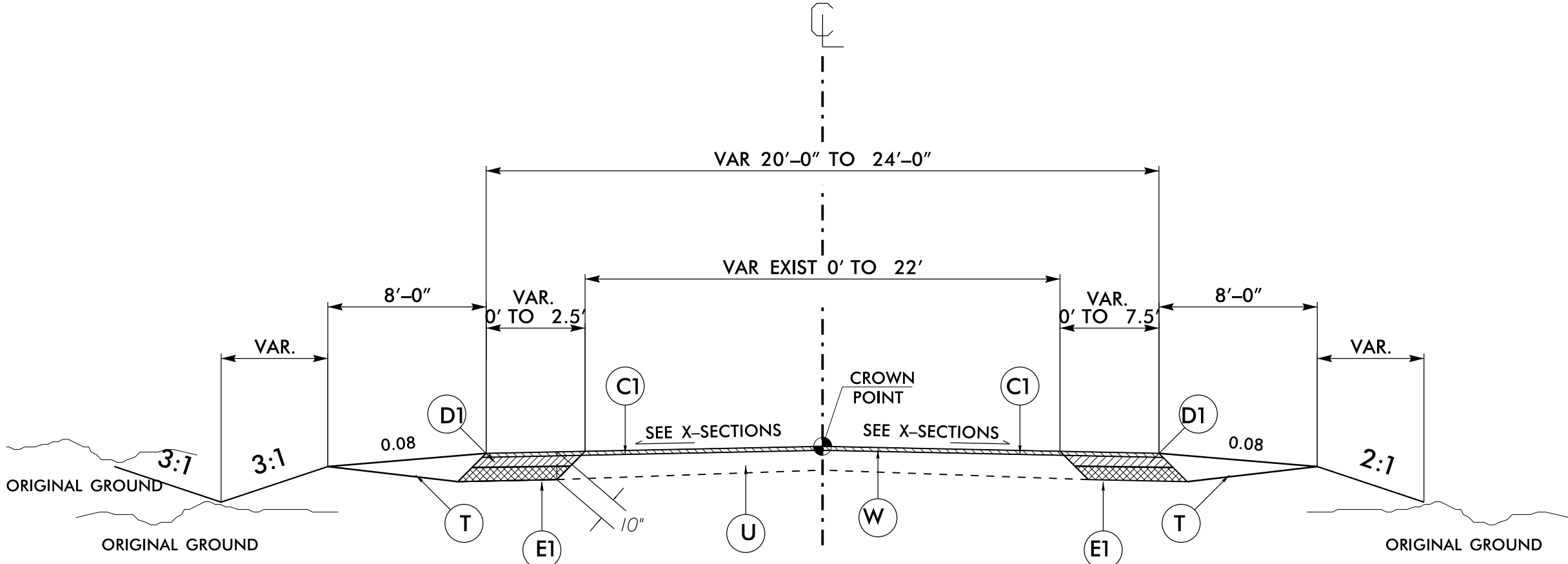
TYPICAL SECTION NO.1

USE TYPICAL SECTION 1  
FROM STATION -L- 20+00 TO -L- 22+74.02



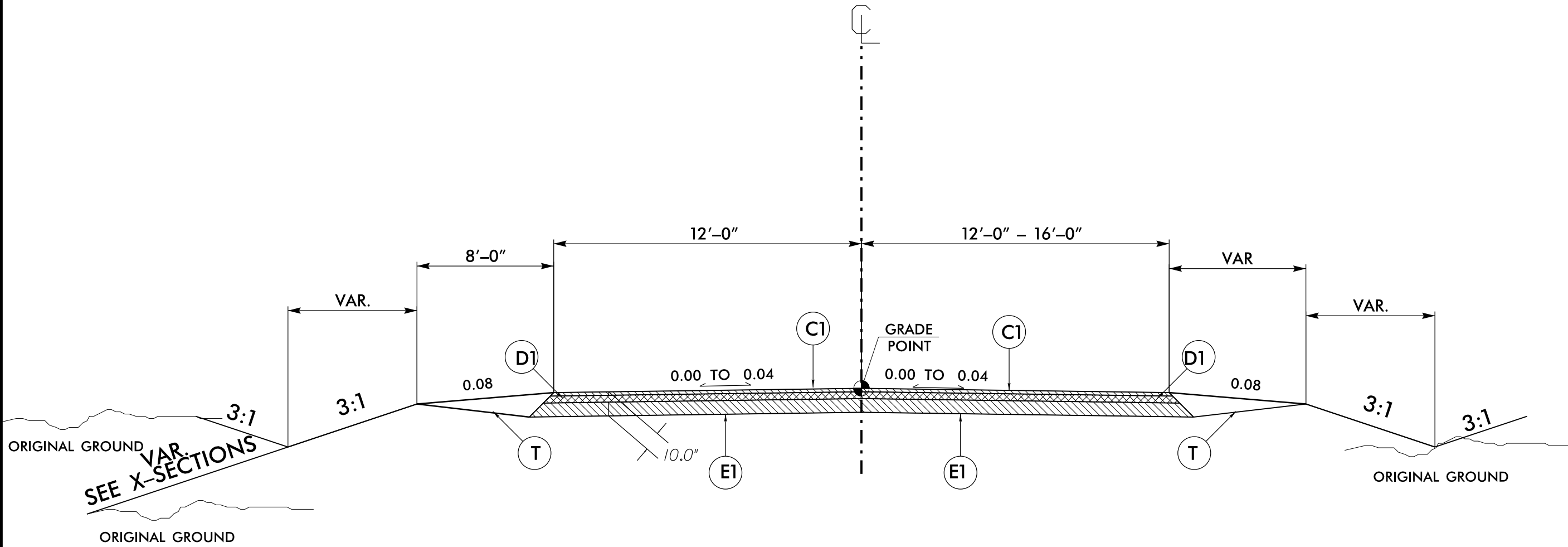
TYPICAL SECTION NO.3

USE TYPICAL SECTION 3  
FROM STATION -L- 22+74.02 TO -L- 23+60  
FROM STATION -L- 36+00 TO -L- 38+00



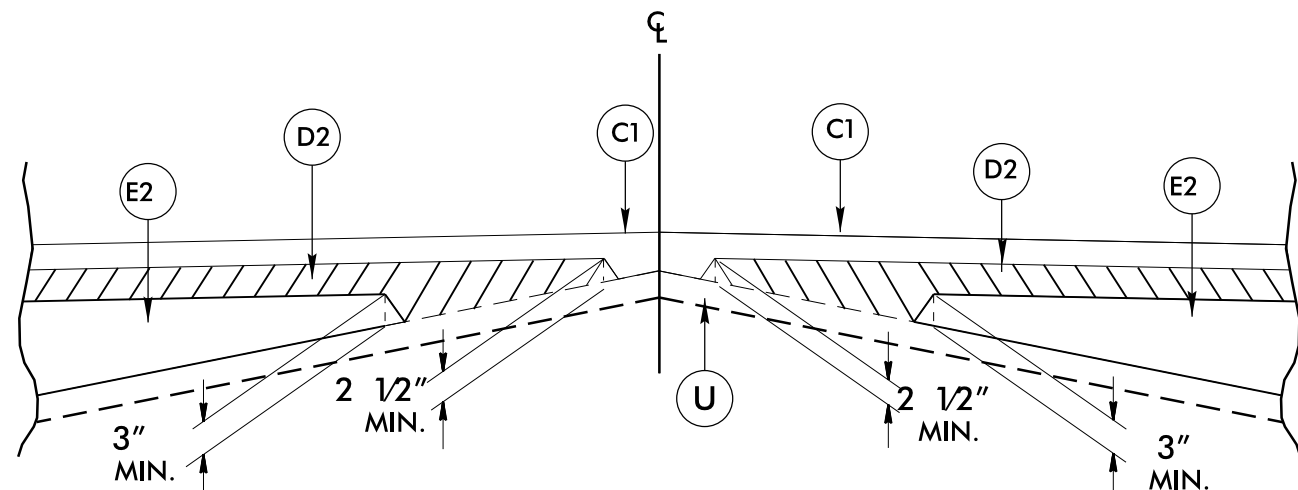
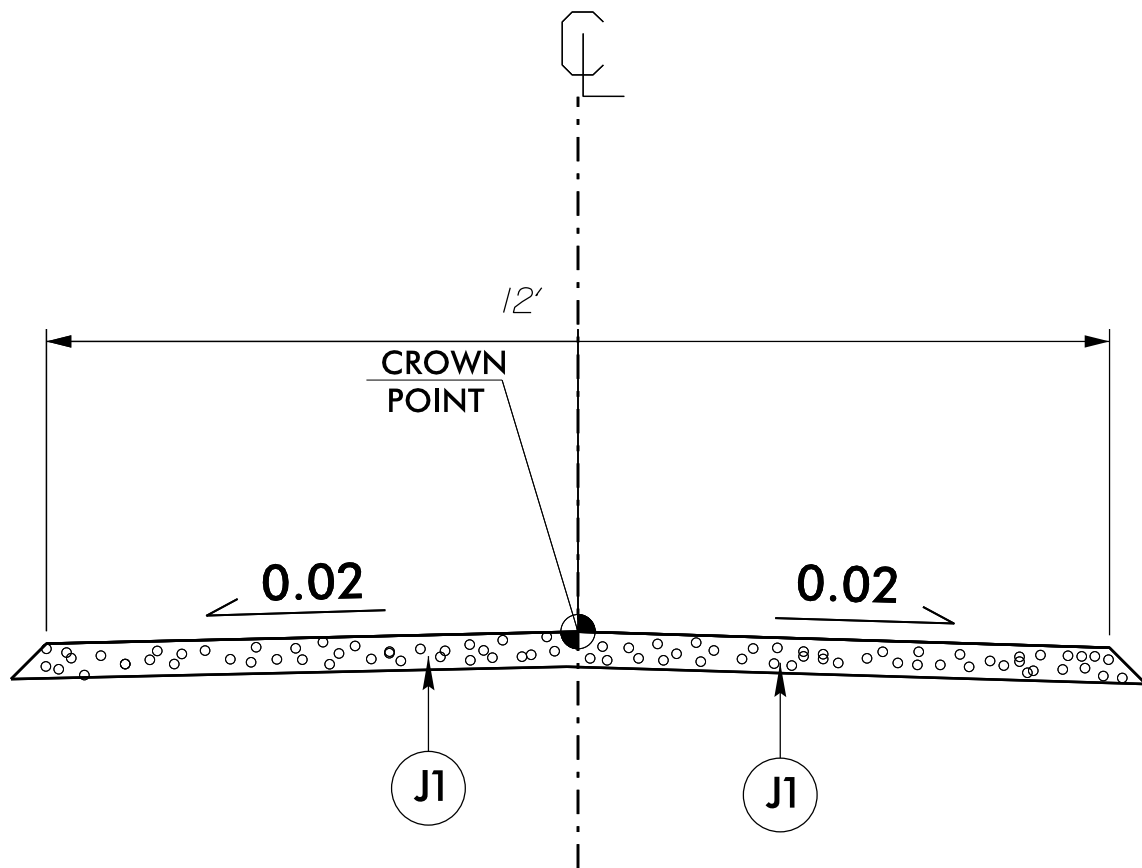
TYPICAL SECTION NO.2

USE TYPICAL SECTION 2  
FROM STATION -L- 23+60 TO -L- 36+00



TYPICAL SECTION NO. 4

USE TYPICAL SECTION NO. 4 FOR  
PROPOSED DRIVEWAYS



Detail Showing Method of Wedging

NOT TO SCALE

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
D1	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
J1	6" INCIDENTAL STONE FOR DRIVEWAYS
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	WEDGING (SEE DETAIL)



PROJECT NO.	SHEET NO.	TOTAL NO.
2018CPT.08.17.20531	3	
44854.3.3 (W-5708C) 47864,		

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0036000000-E	0043000000-N	0195000000-E	0196000000-E	0318000000-E	0320000000-E	0343000000-E	0448400000-E	1220000000-E	1245000000-E	1260000000-E	1308000000-E	1330000000-E	1491000000-E	1503000000-E	1519000000-E	1575000000-E	1704000000-E
										MI	FT	CY	LS	CY	SY	TON	SY	LF	LF	TONS	SMI	TON	SY	SY	TONS	TONS	TONS	TONS	TONS
2018CPT.08.17.20531	Lee	1	SR 1146 ST( ANDREWS CHURCH RD)	FROM SR 1001 ( LEMON SPRINGS RD) TO SR 1133 ( LEE AVENUE)	5	2	2WU	NO	NO	1.61	22										3.22			300			1,890	113	150
TOTAL FOR MAP NO. 1										1.61											3.22			300			1,890	113	150
2018CPT.08.17.20531	Lee	2	SR 1146 (ST ANDREWS CHURCH RD)	FROM BRIDGE TO SR 1144 (SWANNS STATION RD)	6	2	2WU	NO	NO	1.66	22										3.32	60		500			1,625	98	100
TOTAL FOR MAP NO. 2										1.66											3.32	60		500			1,625	98	100
2018CPT.08.17.20531	Lee	3	SR 1139 (WINSTEAD ROAD)	FROM NC 87 TO DEAD END	6	2	2WU	NO	NO	0.25	18										0.50						245	15	50
TOTAL FOR MAP NO. 3										0.25											0.50						245	15	50
2018CPT.08.17.20531	Lee	4	CAROLINA TRACE FD	FIRE DEPARTMENT PARKING LOT	8	2	2WU	NO	NO	0.023	55												740			65	65	7	
TOTAL FOR MAP NO. 4										0.023													740			65	65	7	
TOTAL FOR PROJ NO. 2018CPT.08.17.20531										3.543											7.04	60	740	800		65	3,825	233	300
44854.3.3 (W-5708C)	Lee	5	SR 1140 (FRANK WICKER RD)	CURVE REALIGNMENT	1-4	2	2WU	NO	NO	0.341	24	400	1	400	1,200	15	35	40	64	200				200	1,010	495	355	91	
TOTAL FOR MAP NO. 5										0.341		400	1	400	1,200	15	35	40	64	200				200	1,010	495	355	91	
TOTAL FOR PROJ NO. 44854.3.3 (W-5708C)										0.341		400	1	400	1,200	15	35	40	64	200				200	1,010	495	355	91	
47864	Lee	6	SR 1160 (LEMON SPRINGS RD)	FROM SR 1001 (EDWARDS RD) TO SR 1150 (CASTLEBERRY RD)	7	2	2WU	NO	NO	0.68	20										1.36	25			435		155	29	
TOTAL FOR MAP NO. 6										0.68											1.36	25			435		155	29	
TOTAL FOR PROJ NO. 47864										0.68											1.36	25			435		155	29	
GRAND TOTAL										4.564		400	1	400	1,200	15	35	40	64	200	8.40	85	740	1,000	1,445	560	4,335	353	300

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	2286000000-N	2396000000-N	3649000000-E	3656000000-E	6000000000-E	6006000000-E	6009000000-E	6012000000-E	6015000000-E	6036000000-E	6042000000-E	6071010000-E	6071020000-E	6071030000-E	6084000000-E	6090000000-E	6093000000-E	6108000000-E		
												MASONRY DRAINAGE STRUCTURE	FRAME WITH MH COVER, STD 840.54	RIP RAP, CLASS B	GEOTEXTILE FOR DRAINAGE	TEMPORARY SILT FENCE	EROSION CONTROL STONE, CLASS A	EROSION CONTROL STONE, CLASS B	SEDIMENT CONTROL STONE	TEMPORARY MULCHING	MATTING (EROSION CONTROL)	1/4" HARDWARE CLOTH	WATTLE	POLYACRYLAMIDE (PAM)	COIR FIBER BAFFLES	SEED & MULCHING	SEED FOR REPAIR SEEDING	FERTILIZER FOR REPAIR SEEDING	FERTILIZER TOPDRESSING		
2018CPT.08.17.20531	Lee	1	SR 1146 ST( ANDREWS CHURCH RD)	FROM SR 1001 ( LEMON SPRINGS RD) TO SR 1133 ( LEE AVENUE)	5	2	2WU	NO	NO	1.61	22	EA	EA	TON	SY	LF	TON	TON	TON	ACR	SY	LF	LF	LB	LF	AC	LB	TON	TON		
										1.61																					
TOTAL FOR MAP NO. 1																160											2.35				
																160											2.35				
2018CPT.08.17.20531	Lee	2	SR 1146 (ST ANDREWS CHURCH RD)	FROM BRIDGE TO SR 1144 (SWANNS STATION RD)	6	2	2WU	NO	NO	1.66	22					165								30			2.42				
										1.66																					
TOTAL FOR MAP NO. 2																165											2.42				
2018CPT.08.17.20531	Lee	3	SR 1139 (WINSTEAD ROAD)	FROM NC 87 TO DEAD END	6	2	2WU	NO	NO	0.25	18					25								10			0.37				
										0.25																					
TOTAL FOR MAP NO. 3																25											0.37				
2018CPT.08.17.20531	Lee	4	CAROLINA TRACE FD	FIRE DEPARTMENT PARKING LOT	8	2	2WU	NO	NO	0.023	55																				
										0.023																					
TOTAL FOR MAP NO. 4																															
TOTAL FOR PROJ NO. 2018CPT.08.17.20531																350												5.14			
44854.3.3 (W-5708C)	Lee	5	SR 1140 (FRANK WICKER RD)	CURVE REALIGNMENT	1-4	2	2WU	NO	NO	0.341	24	1	1	5	14		20	80	50	2.80	1,600	20	180	15	105	2.80	50	0.25	2.00		
										0.341																					
TOTAL FOR MAP NO. 5																	20	80	50	2.80	1,600	20	180	15	105	2.80	50	0.25	2.00		
TOTAL FOR PROJ NO. 44854.3.3 (W-5708C)																	20	80	50	2.80	1,600	20	180	15	105	2.80	50	0.25	2.00		
47864	Lee	6	SR 1160 (LEMON SPRINGS RD)	FROM SR 1001 (EDWARDS RD) TO SR 1150 (CASTLEBERRY RD)	7	2	2WU	NO	NO	0.68	20					70											0.66				
										0.68																					
TOTAL FOR MAP NO. 6																70											0.66				
TOTAL FOR PROJ NO. 47864																	70											0.66			
GRAND TOTAL																4564												8.60	50	0.25	2.00

PROJECT NO.	SHEET NO.	TOTAL NO.
2018CPT.08.17.20531	3-A	
44854.3.3 (W-5708C) 47864,		

THERMOPLASTIC AND PAINT QUANTITIES

										4413000000-E	4457000000-N	4685000000-E	4686000000-E			4710000000-E	4721000000-E		4850000000-E	4900000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 120 M WHITE THERMO	4" X 120 M YELLOW THERMO	24" X 120 M WHITE THERMO	THERMO MSG STOP 120 M	THERMO MSG AHEAD 120 M	4" LINE REMOVAL	YELLOW & YELLOW MARKERS	
								MI	FT			SF	LS	LF	LF	LF	LF	EA	EA	LF
2018CPT.08.17.20531	Lee	1	SR 1146 ST( ANDREWS CHURCH RD)	FROM SR 1001 ( LEMON SPRINGS RD) TO SR 1133 ( LEE AVENUE)	5	2	2WU	1.61	22	180	*	17,325	50	11,150	24	4	5		106	
TOTAL FOR MAP NO. 1							1.61		180	17,325		50	11,150	24	4	5		106		
2018CPT.08.17.20531	Lee	2	SR 1146 (ST ANDREWS CHURCH RD)	FROM BRIDGE TO SR 1144 (SWANNS STATION RD)	6	2		1.66	22	185		17,865		10,960					110	
TOTAL FOR MAP NO. 2							1.66		185	17,865			10,960					110		
2018CPT.08.17.20531	Lee	3	SR 1139 (WINSTEAD ROAD)	FROM NC 87 TO DEAD END	6	2		0.25	18	28										
TOTAL FOR MAP NO. 3							0.25		28											
2018CPT.08.17.20531	Lee	4	CAROLINA TRACE FD	FIRE DEPARTMENT PARKING LOT	8	2	2WU	0.023	55											
TOTAL FOR MAP NO. 4							0.023													
TOTAL FOR PROJ NO. 2018CPT.08.17.20531							3.543		393	1	35,190	50	22,110	24	4	5		216		
												22,160			9					
44854.3.3 (W-5708C)	Lee	5	SR 1140 (FRANK WICKER RD)	CURVE REALIGNMENT	1-4	2	2WU	0.341	24	12	*	3,600		3,600					45	
TOTAL FOR MAP NO. 5							0.341		12	3,600			3,600					45		
TOTAL FOR PROJ NO. 44854.3.3 (W-5708C)							0.341		12	1	3,600		3,600					45		
												3,600								
47864	Lee	6	SR 1160 (LEMON SPRINGS RD)	FROM SR 1001 (EDWARDS RD) TO SR 1150 (CASTLEBERRY RD)	7	2	2WU	0.68	20	77	*	7,180						7,180		
TOTAL FOR MAP NO. 6							0.68		77	7,180								7,180		
TOTAL FOR PROJ NO. 47864							0.68		77	1	7,180							7,180		
GRAND TOTAL							4.564		482	1	45,970	50	25,710	24	4	5	7,180	261		
												25,760			9					



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
-L- 20+00	-L- 38+00	2027	5356	3329	
EST. 5% TO REPLACE TOPSOIL ON BORROW PITS				166	
GRAND TOTALS:		2027		3495	
SAY:		2030		3500	

Contingency Undercut =      400 CY

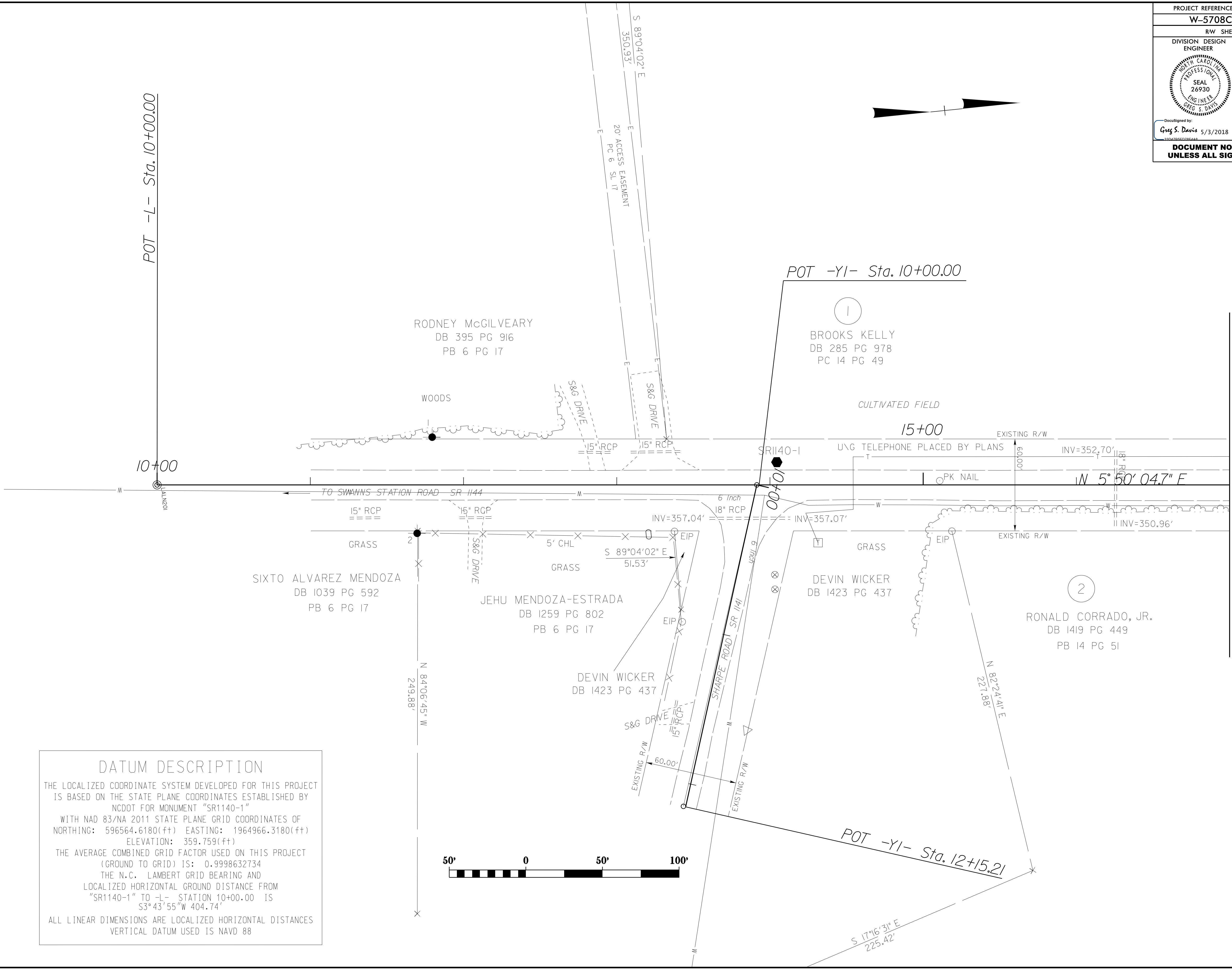
PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL
-L-	23+60	36+00	LT	3001.76
		TOTAL:		3001.76
		SAY:		3005

[illegible]





DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "SR1140-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 596564.6180(++) EASTING: 1964966.3180(++) ELEVATION: 359.759(++)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9998632734

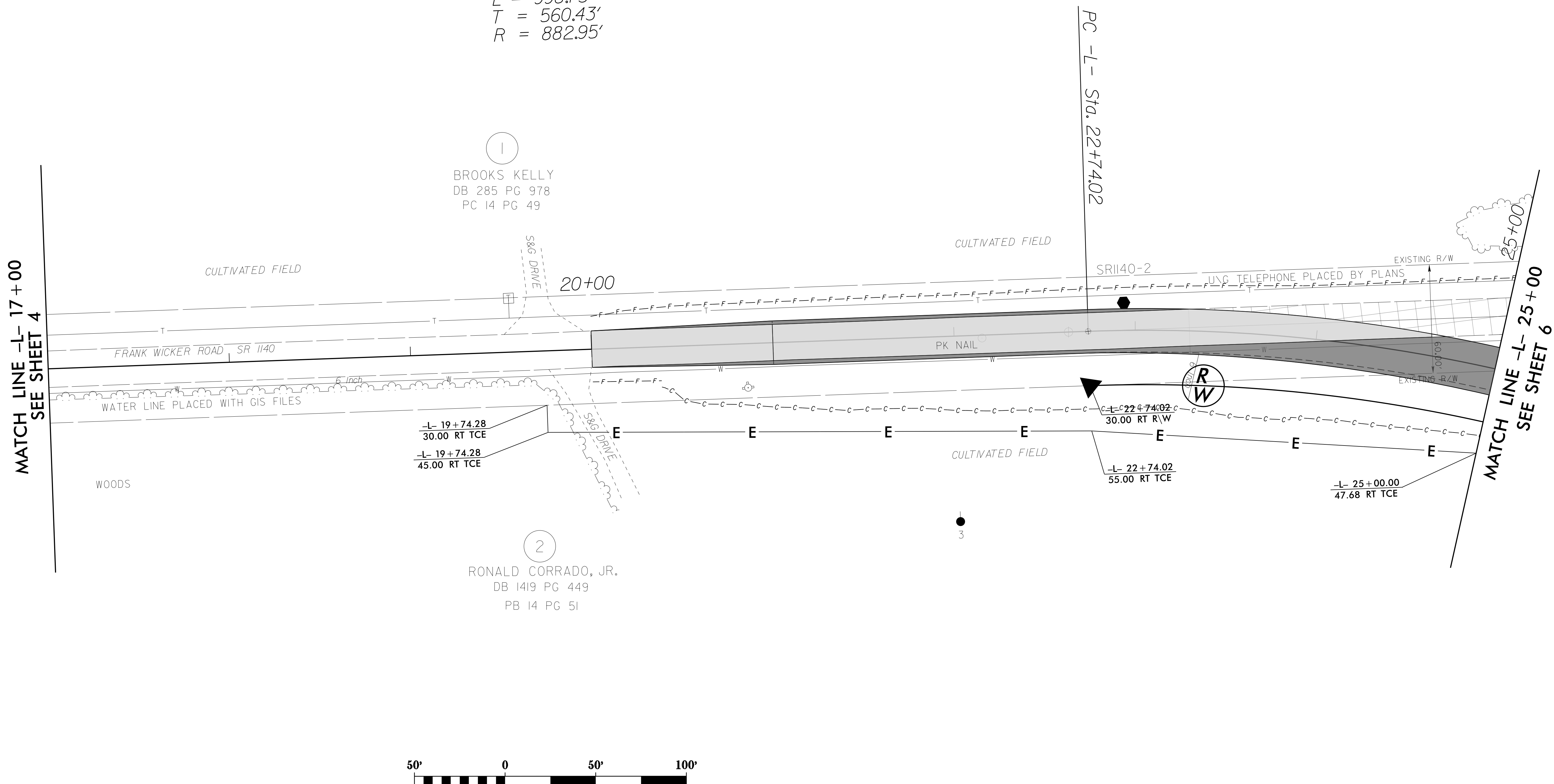
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "SR1140-1" TO -L- STATION 10+00.00 IS S3°43'55"W 404.74'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

MATCH LINE -L- 17+00  
SEE SHEET 5

REVISIONS

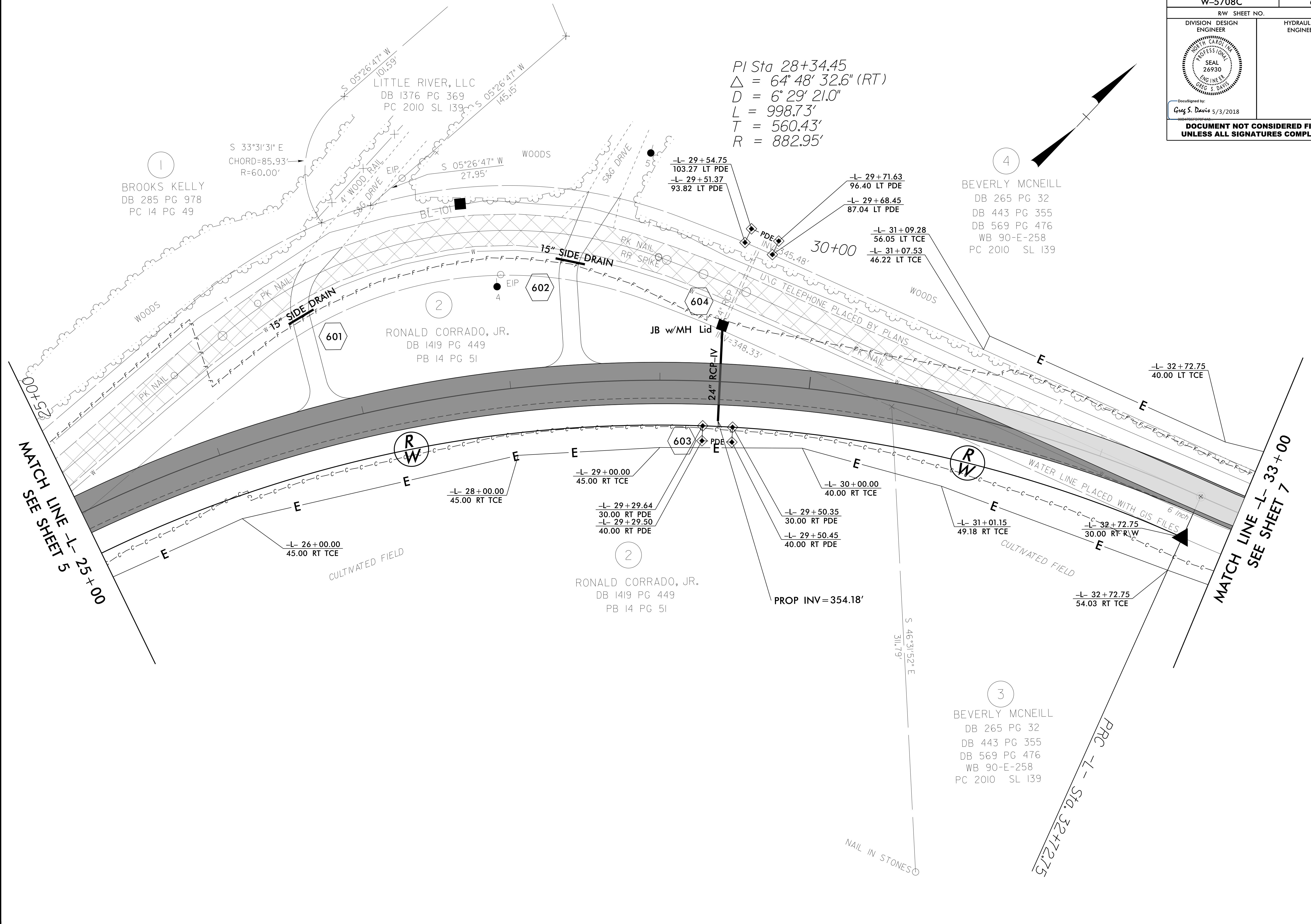
*PI Sta* 28+34.45  
 $\Delta = 64^{\circ} 48' 32.6''$  (RT)  
 $D = 6^{\circ} 29' 21.0''$   
 $L = 998.73'$   
 $T = 560.43'$   
 $R = 882.95'$



## REVISIONS

Q3-MAY-2018 16:10  
Z:\rdy\LEE\sr\_1140\frank\_wicker\_rd\psh\dsn\W-5708C\_psh-5.dgn  
asdwsls AT DIV8-304810





## REVISIONS

03-MAY-2018 16:10  
Z:\rdy\LEE\sr\_1140(frank\_wicker\_rdl)\psh\dsn\w-5708C\_psh.6.dgn  
as Davis AT DIV8-304810

8/17/99

REVISIONS

03-MAY-2018 16:10  
Z:\proj\LEE\p\0118-302810  
0118-302810

PI Sta 40+62.71  
 $\Delta = 10^{\circ} 59' 46.8''$  (LT)  
 $D = 8^{\circ} 00' 00.0''$   
 $L = 137.45'$   
 $T = 68.94'$   
 $R = 716.20'$

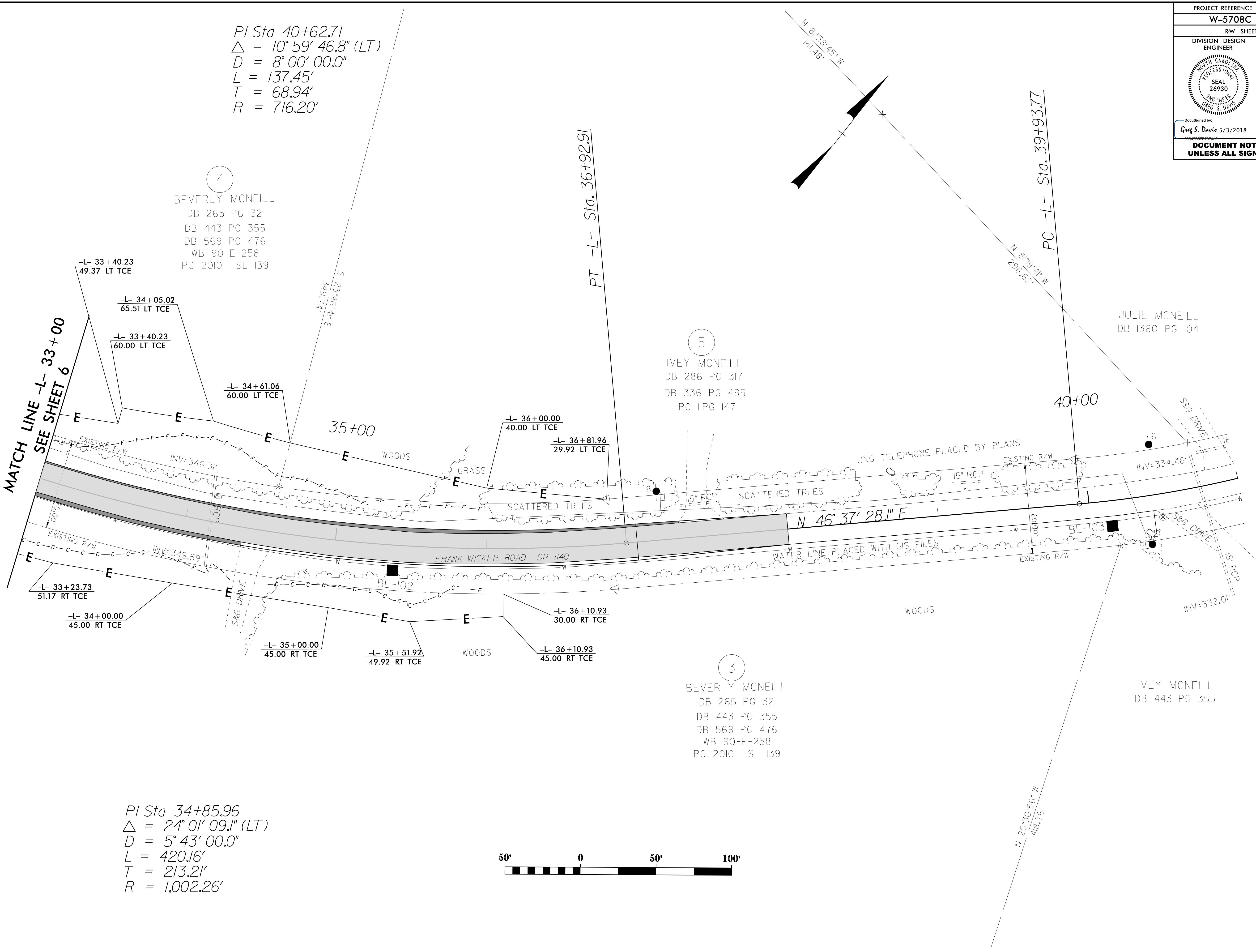
4  
BEVERLY MCNEILL  
DB 265 PG 32  
DB 443 PG 355  
DB 569 PG 476  
WB 90-E-258  
PC 2010 SL 139

5  
IVEY MCNEILL  
DB 286 PG 317  
DB 336 PG 495  
PC 1PG 147

3  
BEVERLY MCNEILL  
DB 265 PG 32  
DB 443 PG 355  
DB 569 PG 476  
WB 90-E-258  
PC 2010 SL 139

JULIE MCNEILL  
DB 1360 PG 104

IVEY MCNEILL  
DB 443 PG 355




PI Sta 34+85.96  
 $\Delta = 24^{\circ} 01' 09.1''$  (LT)  
 $D = 5^{\circ} 43' 00.0''$   
 $L = 420.16'$   
 $T = 213.21'$   
 $R = 1,002.26'$

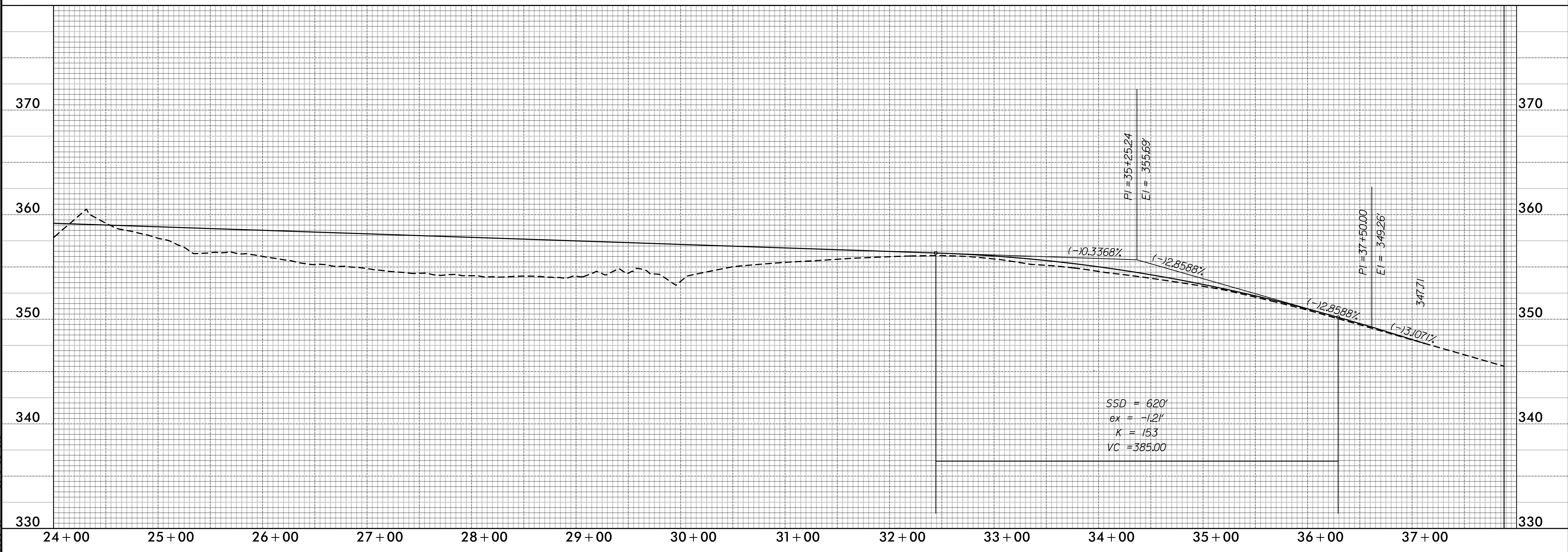
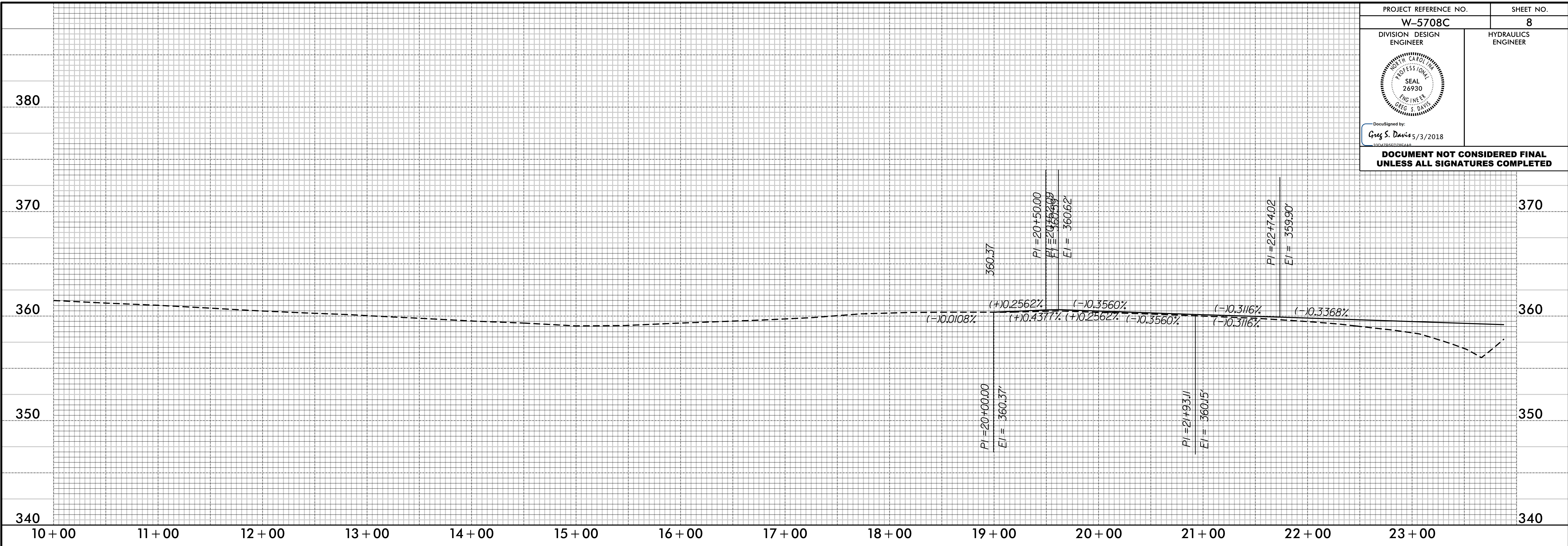




5/28/99

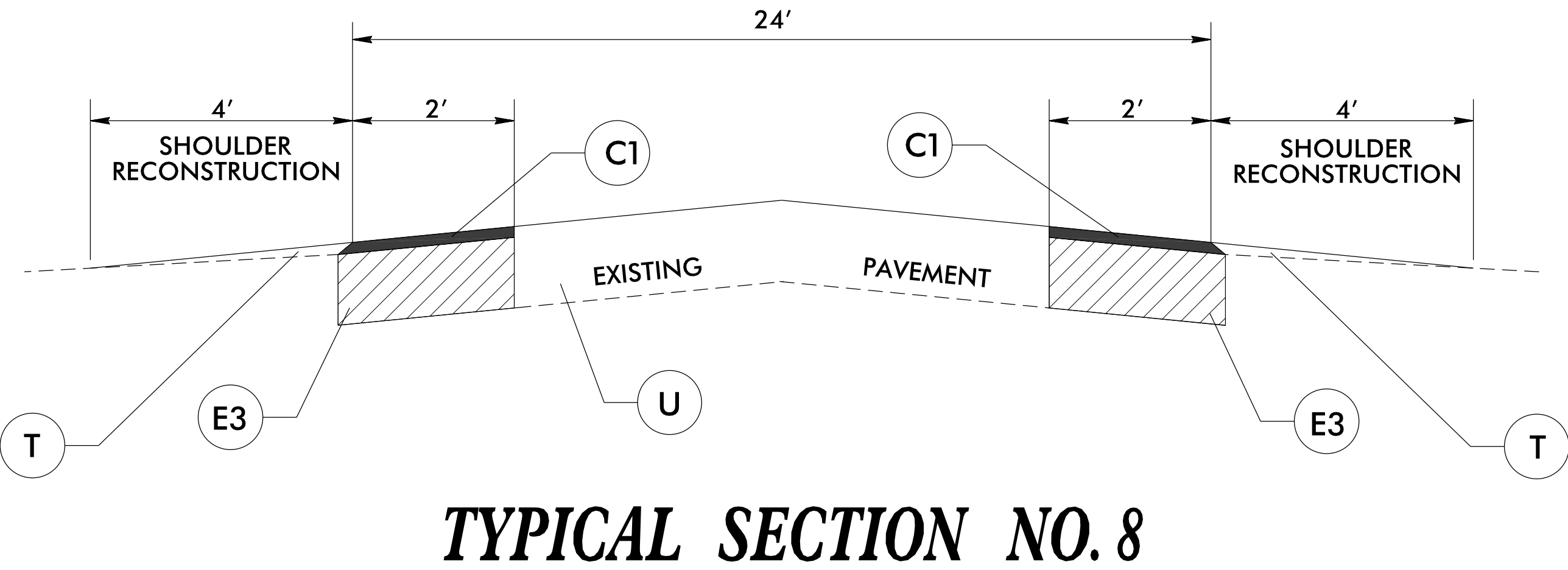
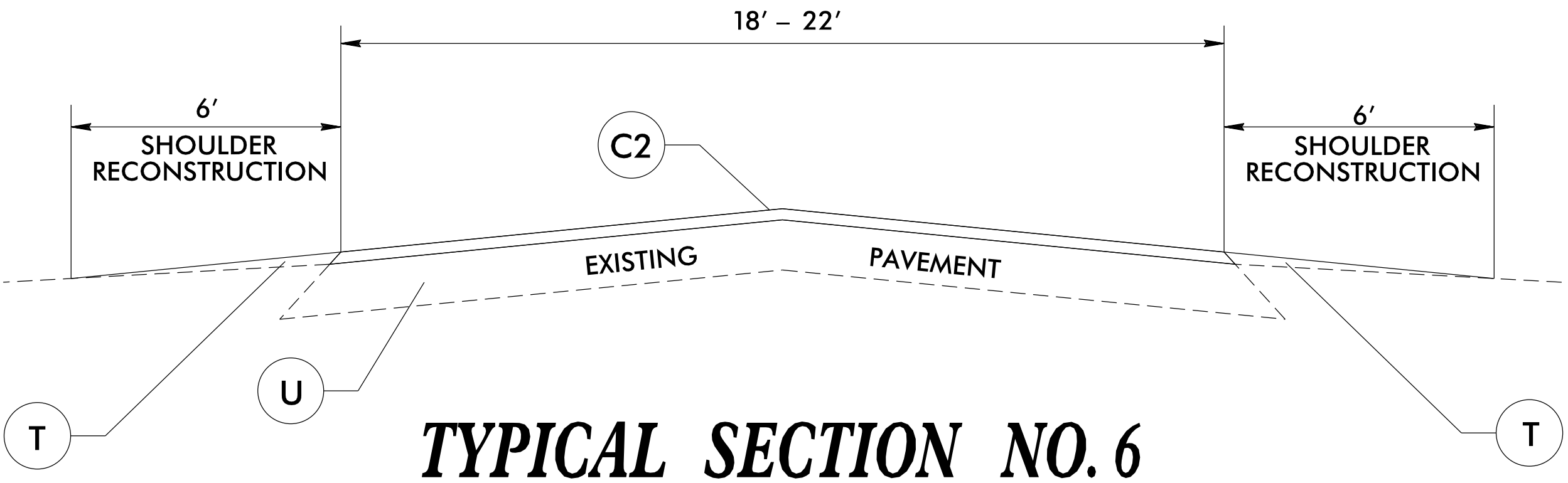
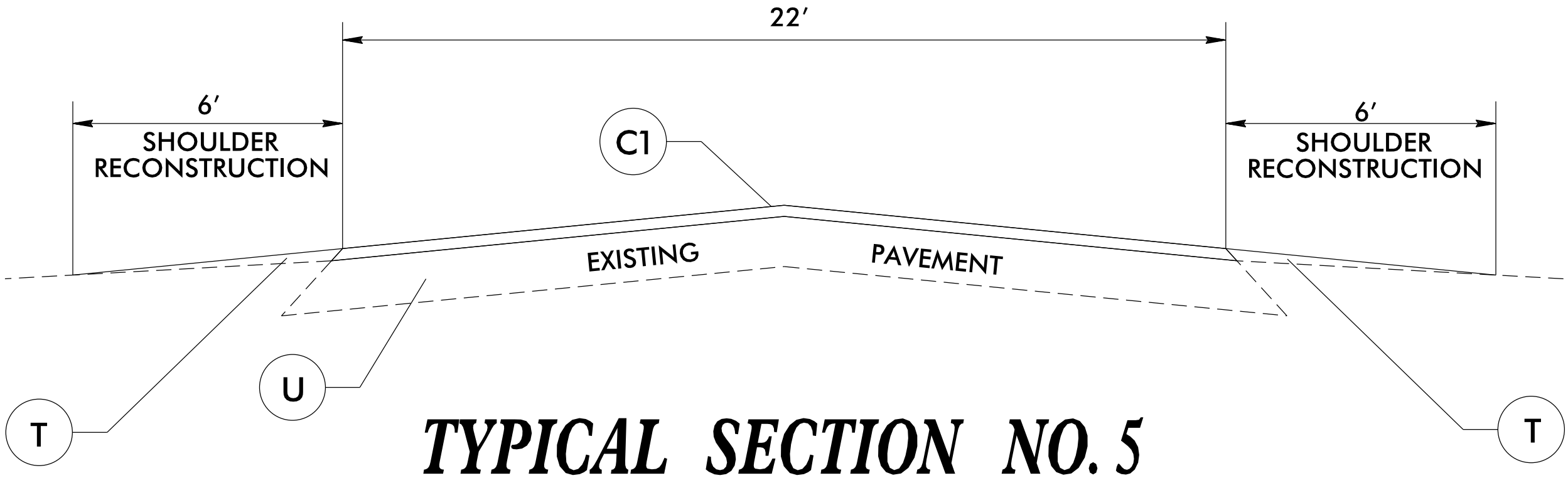
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Z:\proj\LEE\sr\1118-302810  
wicker-rd\psh\vpf\sr-1140\_vpf\_8.dgn

PROJECT REFERENCE NO.		SHEET NO.
W-5708C		8
DIVISION DESIGN ENGINEER	HYDRAULICS ENGINEER	
		
DocuSigned by: <i>Greg S. Davis</i> 5/3/2018 1304785ED78E4A8		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



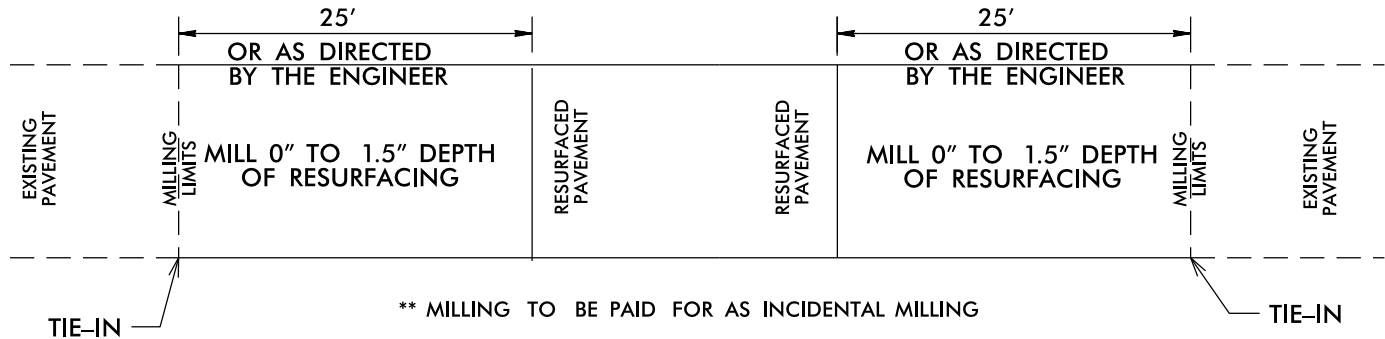
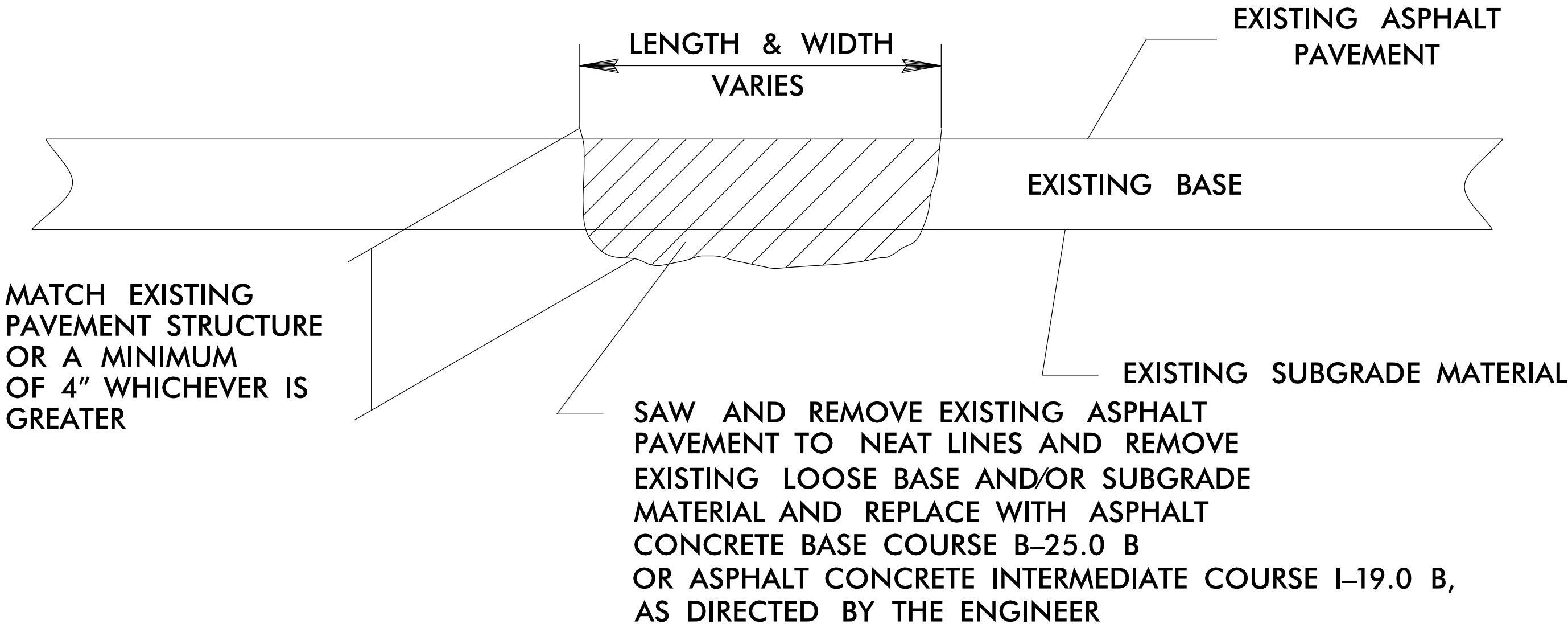






DETAILS OF PATCHING EXISTING PAVEMENT PRIOR TO RESURFACING

DETAIL



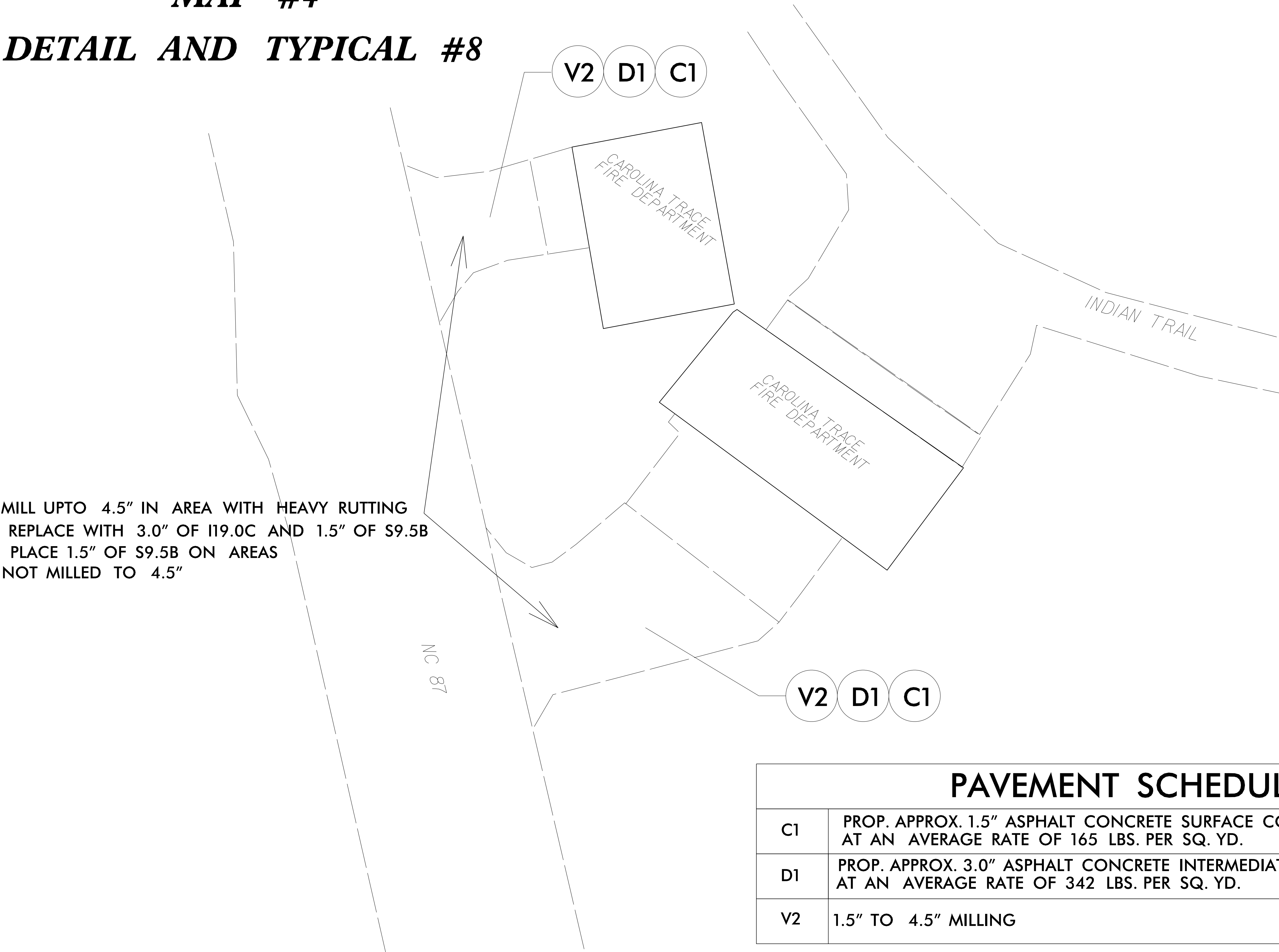
PAVEMENT TIE-IN DETAIL

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 138 LBS. PER SQ. YD.
E3	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
T	EARTH MATERIAL
U	EXISTING PAVEMENT.

040391

MAP #4

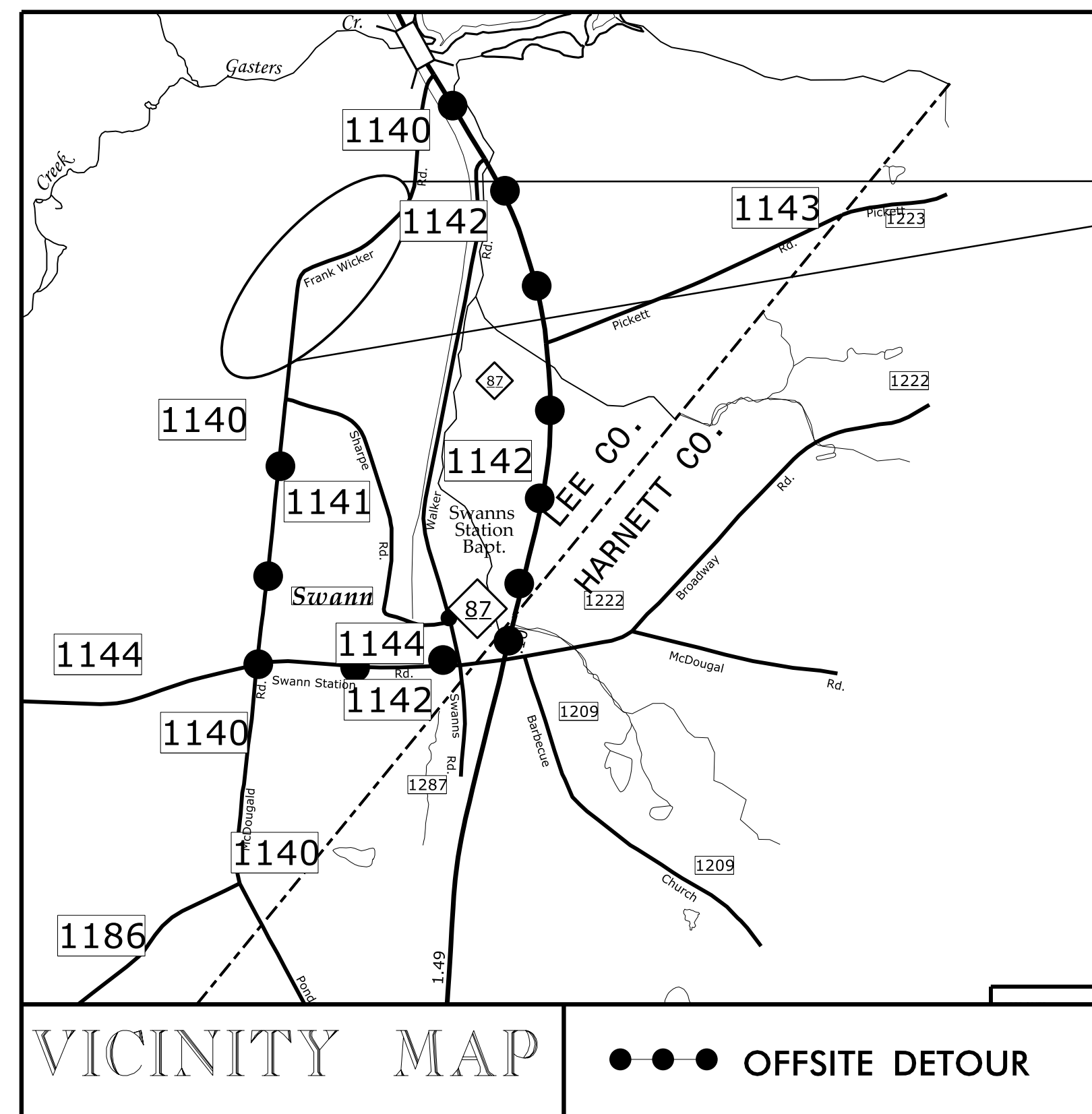
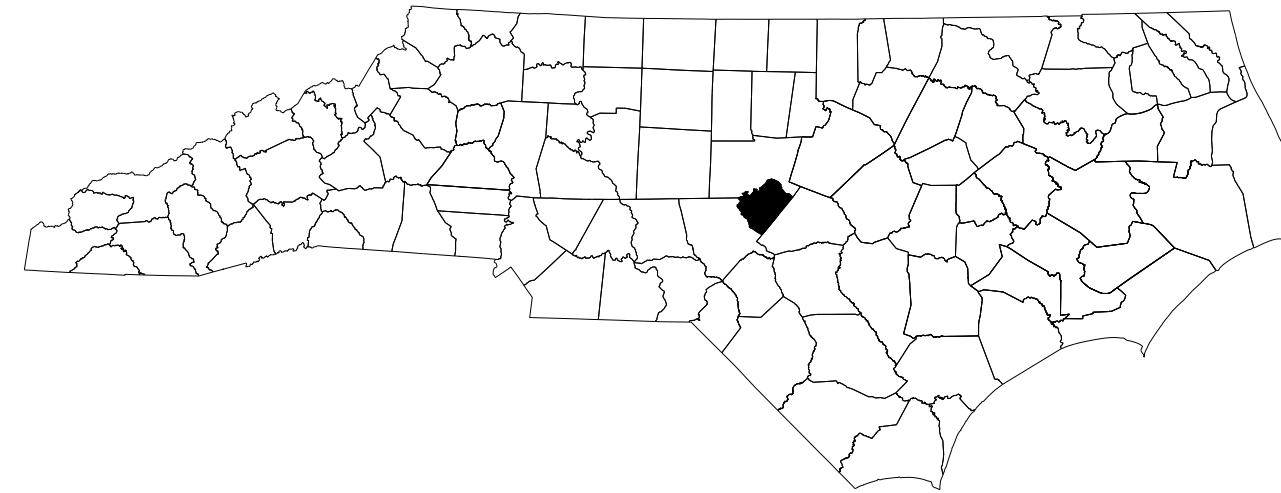
DETAIL AND TYPICAL #8



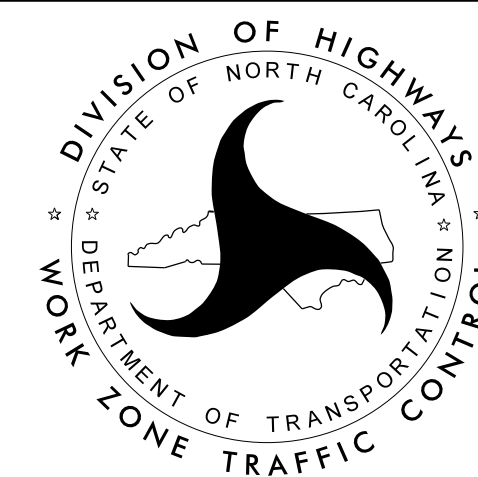
MILL UPTO 4.5" IN AREA WITH HEAVY RUTTING  
REPLACE WITH 3.0" OF I19.0C AND 1.5" OF S9.5B  
PLACE 1.5" OF S9.5B ON AREAS  
NOT MILLED TO 4.5"

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
D1	PROP. APPROX. 3.0" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
V2	1.5" TO 4.5" MILLING


**LEE COUNTY**



## ***PROJECT LOCATION***

**TRAFFIC CONTROL DESIGN ENGINEER**

TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-2	GENERAL NOTES
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4	OFF-SITE DETOUR DETAIL
TMP-5	OFF-SITE DETOUR SIGNING PLAN DETAIL #1
TMP-6	OFF-SITE DETOUR SIGNING PLAN DETAIL #2
TMP-7	SPECIAL SIGN DETAIL



**W-5708C**

# TIP PROJECT:




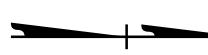


ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.06	WARNING SIGNS FOR BLASTING ZONES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

LEGEND

GENERAL

-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  EXIST. PVMT.
-  NORTH ARROW
-  PROPOSED PVMT.
-  TEMP. SHORING (LOCATION PURPOSES ONLY)

 WORK AREA

 REMOVAL

 USER DEFINED (IF NEEDED)

 USER DEFINED (IF NEEDED)







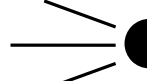

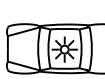
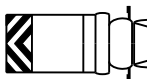

SIGNALS

-  EXISTING
-  PROPOSED
-  TEMPORARY




PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES




TRAFFIC CONTROL DEVICES

-  BARRICADE (TYPE III)
-  CONE
-  DRUM
-  SKINNY DRUM
-  TUBULAR MARKER
-  TEMPORARY CRASH CUSHION
-  FLASHING ARROW BOARD
-  FLAGGER
-  LAW ENFORCEMENT
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

-  CRYSTAL/CRYSTAL
-  CRYSTAL/RED
-  YELLOW/YELLOW


PAVEMENT MARKING SYMBOLS

-  PAVEMENT MARKING SYMBOLS

APPROVED: 

DATE: 5/3/2018

SEAL





ROADWAY STANDARD  
DRAWINGS & LEGEND

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

03-MAY-2018 16:11  
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gsdavis AT DIV8-304810



# GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS, OR RESULT IN DUPLICATE, OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

- A) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

NC 87

SR 1140 (FRANK WICKER RD)

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31st TO 9:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00 A.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 9:00 A.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 9:00 A.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 7:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 9:00 A.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 9:00 A.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

- B) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

## LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

- G) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

- H) DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY ONE DIRECTION, ON SR 1140 (-L-).

## PAVEMENT EDGE DROP OFF REQUIREMENTS

- I) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

## TRAFFIC PATTERN ALTERATIONS

- J) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

## SIGNING

- K) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

- L) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

## TRAFFIC CONTROL DEVICES

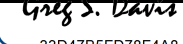
- M) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.

- N) PLACE TYPE III BARRICADES WITH " ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY. WHERE LOCAL TRAFFIC MUST BE MAINTAINED, THEY MAY BE PLACED IN A STAGGERED PATTERN.

## PAVEMENT MARKINGS AND MARKERS

- O) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

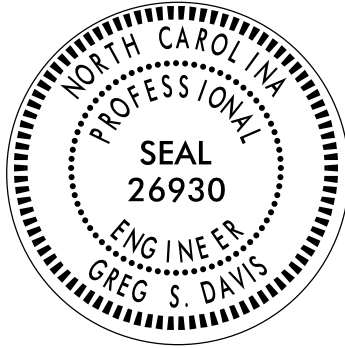
- P) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH WORKING DAY.

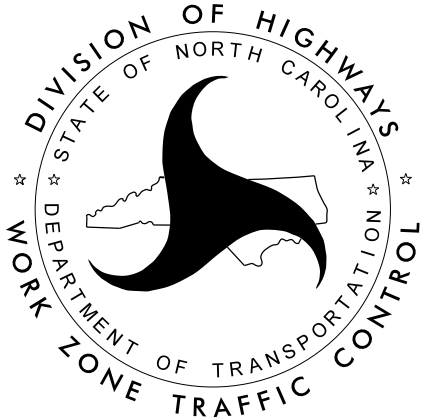
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5/3/2018

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

SEAL





TRANSPORTATION  
MANAGEMENT  
PLAN

GENERAL NOTES

03-MAY-2018 16:11  
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gsdavis AT DIV8-304810

MANAGEMENT  
STRATEGIES

PHASE I

BEGIN BY CONSTRUCTING A PORTION OF -L- ALIGNMENT (SR 1140) AWAY FROM TRAFFIC. USE SHOULDER AND LANE CLOSURES AS NECESSARY.

PHASE II

WHEN NEW ALIGNMENT ON -L- ALIGNMENT IS READY TO TIE INTO EXISTING SR 1140, USE ROAD CLOSURE ON SR 1140 AND PLACE TRAFFIC ON OFF-SITE DETOUR FOR A PERIOD OF NO MORE THAN 10 DAYS. COMPLETE CONSTRUCTION ON SR 1140 (-L-), REMOVE ALL TRAFFIC CONTROL DEVICES, AND SWITCH TRAFFIC TO NEW -L- ALIGNMENT.

USING LANE CLOSURES TO COMPLETE RESURFACING OF OTHER MAPS IN THE CONTRACT.

PHASING

PHASE I

STEP 1:  
INSTALL WORK ZONE ADVANCE WARNING SIGNS IN ACCORDANCE WITH NCDOT ROADWAY STANDARD DRAWING NO. 1101.01. (SHEET 3 OF 3) WHEN NO WORK IS BEING CONDUCTED FOR A PERIOD LONGER THAN ONE WEEK, REMOVE OR COVER ALL ADVANCE WORK ZONE SIGNS, AS DIRECTED BY THE ENGINEER.

STEP 2:

USING NCDOT STANDARD DRAWING NOs. 1101.02 (SHEET 1 OF 14) AND 1101.04 CLOSE THE SOUTHERN SHOULDER OF SR 1140 (-L-) AND CONSTRUCT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE THE PORTION OF -L- CONSTRUCTION THAT IS AWAY FROM TRAFFIC.

PHASING

PHASE II

WORK IN A CONTINUOUS MANNER TO COMPLETE STEPS #1 THRU #3 IN TEN (10) CONSECUTIVE CALENDAR DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 1:

USING NCDOT STANDARD DRAWING NO. 1101.03 (SHEET 1 OF 9), CLOSE SR 1140 (-L-) TO THROUGH TRAFFIC AND PLACE TRAFFIC ON OFF-SITE DETOUR. (SEE TMP-4 THRU TMP-6)

STEP 2:

COMPLETE TIE-INS TO -L- AND COMPLETE NEW ALIGNMENT OF SR 1140 (-L-) UPTO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE AND PAVEMENT MARKINGS. (SEE PM-1 THRU PM-3).

STEP 3:

REMOVE OFF-SITE DETOUR AND OPEN SR 1140 (-L-) TO NEW TRAFFIC PATTERN.

NOTE: STEP 4 BELOW MAY BE STARTED BEFORE, DURING OR AFTER COMPLETION OF PHASE I OR PHASE II.

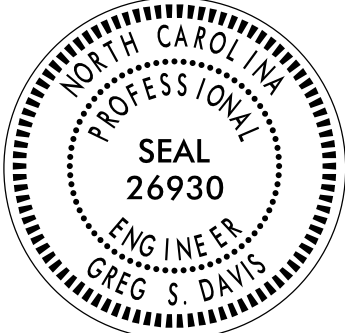
STEP 4:

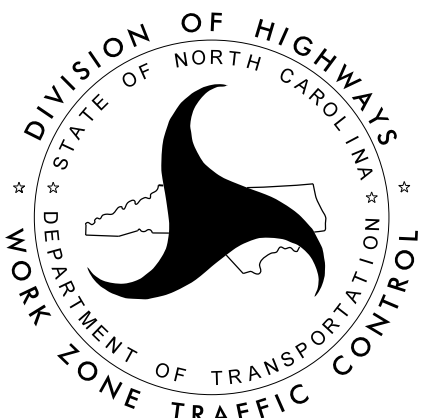
USING NCDOT STANDARD SR 1101.02 (SHEET 1 OF 14), COMPLETE RESURFACING AND PAVEMENT MARKINGS AND MARKERS ON THE REMAINING MAPS.

DocuSigned by:  
*Greg S. Davis*  
330747B5F07078F594E

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

SEAL

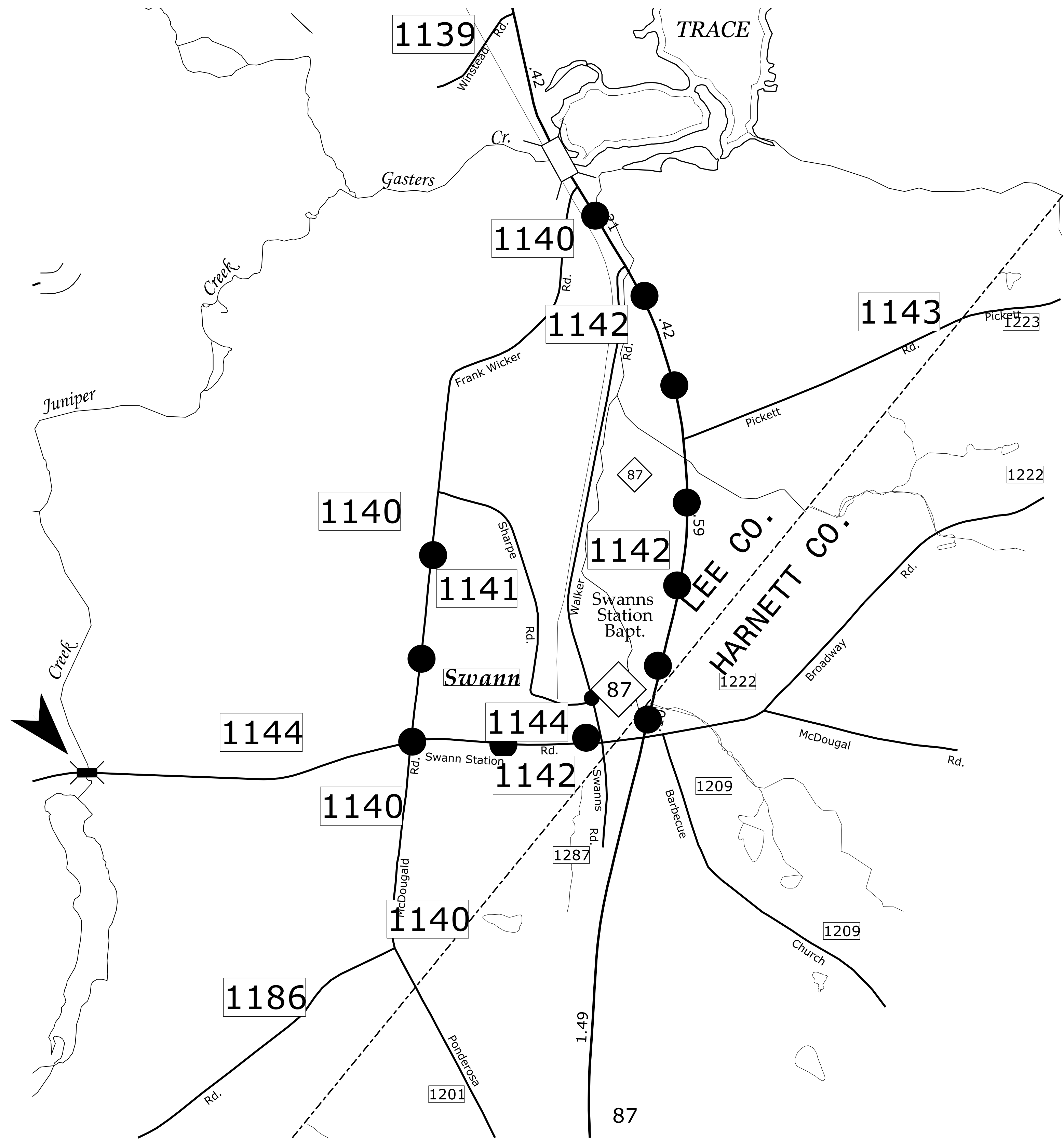


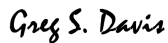


TEMPORARY TRAFFIC  
CONTROL PHASING

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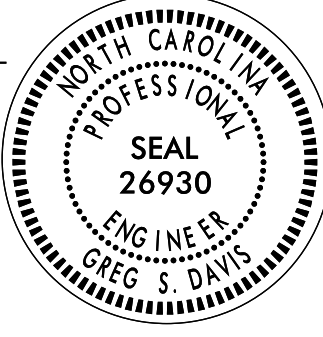




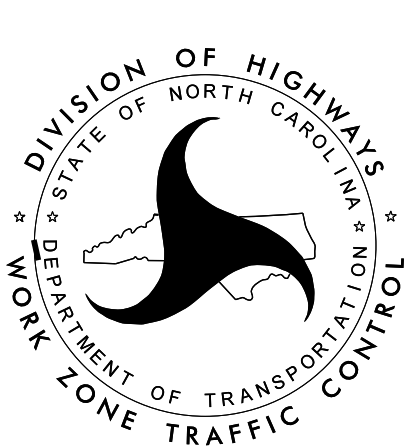
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DATE: 5/3/2018

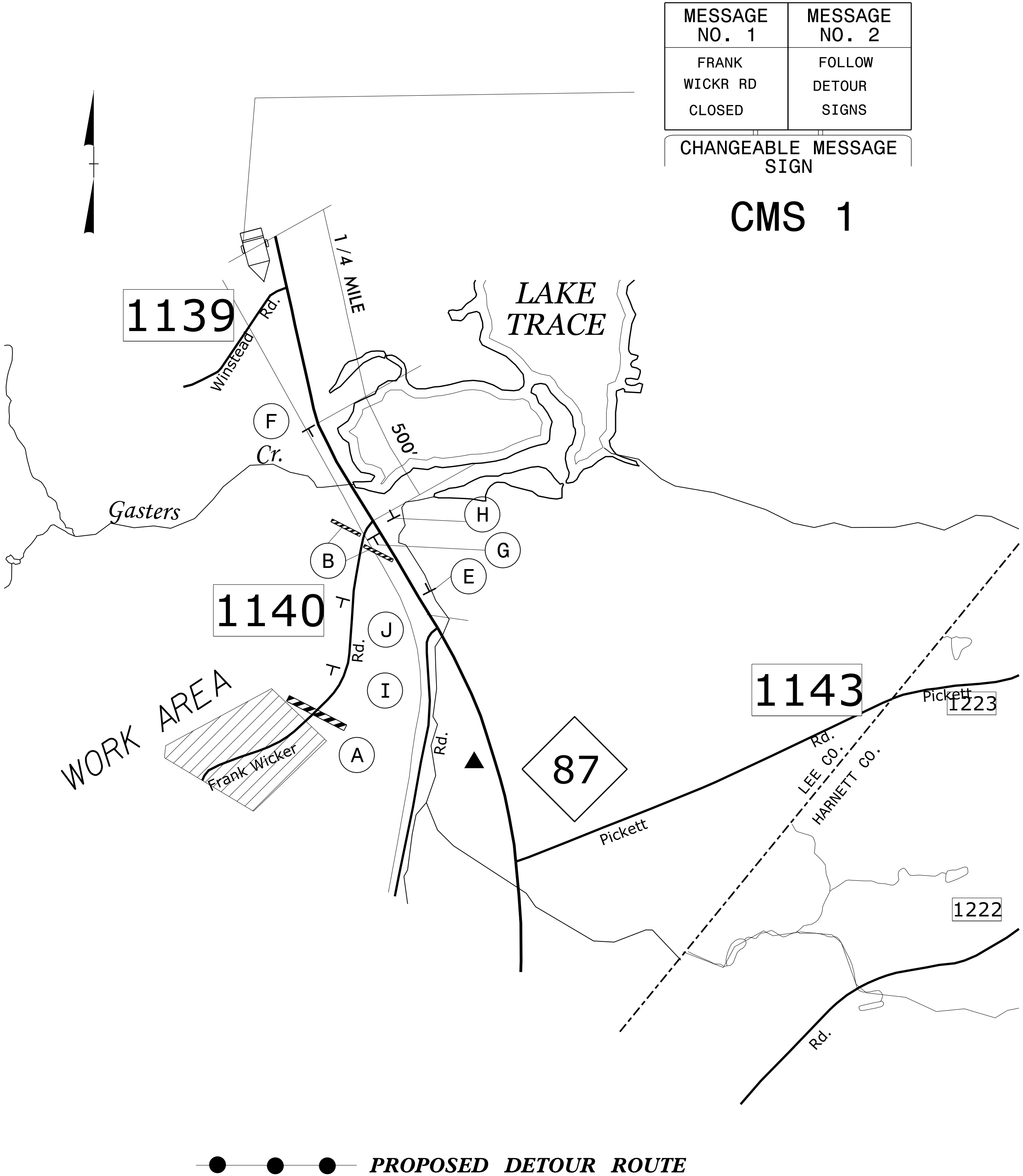
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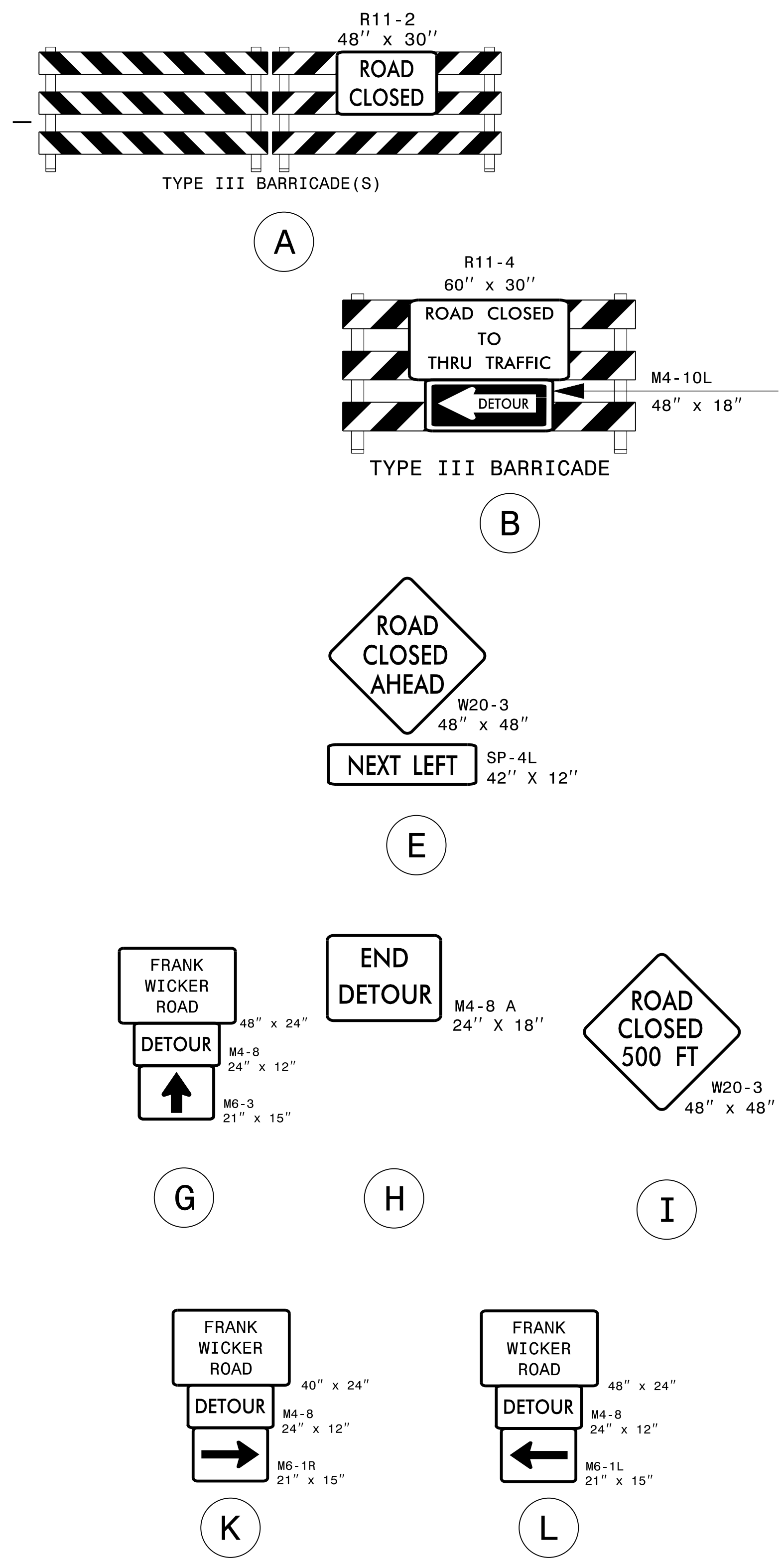
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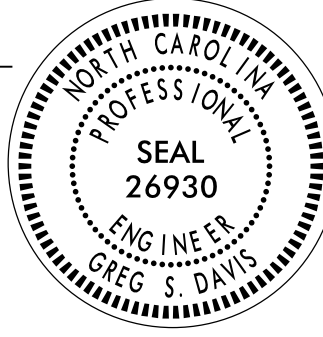


OFF-SITE DETOUR



CMS 1



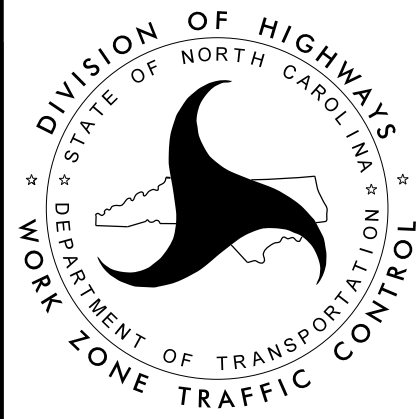
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DATE: 5/21/2018

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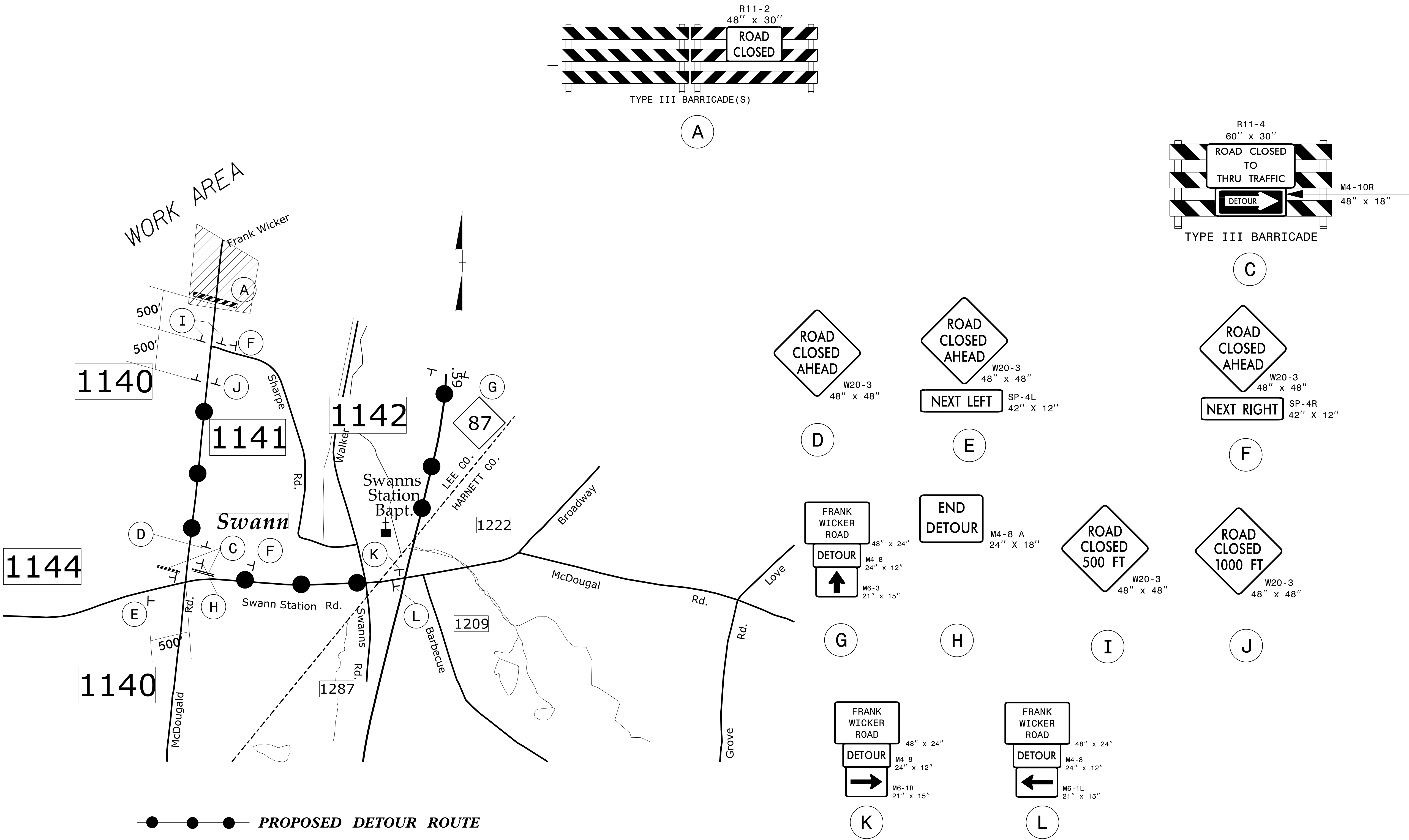
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL



OFF-SITE DETOUR  
SIGNING PLAN  
DETAIL #1

21-MAY-2018 15:17  
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gsdavis AT DIV8-30480





<p>APPROVED: _____</p> <p>DATE: 5/21/2018</p> <p>SEAL</p> <p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	<p>DESIGNED BY: Greg S. Davis</p> <p>SEAL 26930 ENGINEER GREG S. DAVIS</p> <p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p>	<p>OFF-SITE DETOUR SIGNING PLAN DETAIL #2</p>
--	---	---

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gsdavis AT DIV8-30480



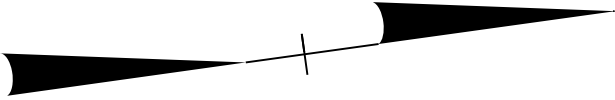
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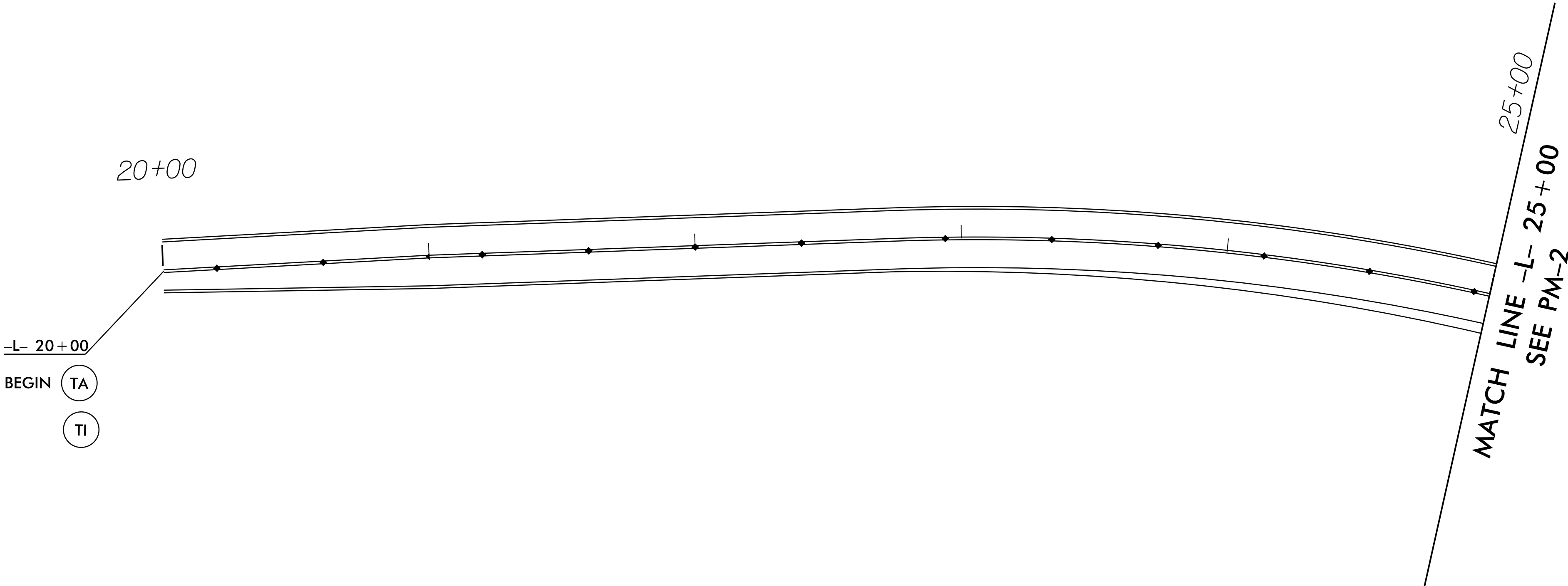
REVISIONS

PAVEMENT MARKING LINES

TA - THERMOPLASTIC (4" WHITE, 90 MILS) EDGE LINE  
TI - THERMOPLASTIC (4" YELLOW, 120 MILS) DOUBLE CENTERLINE



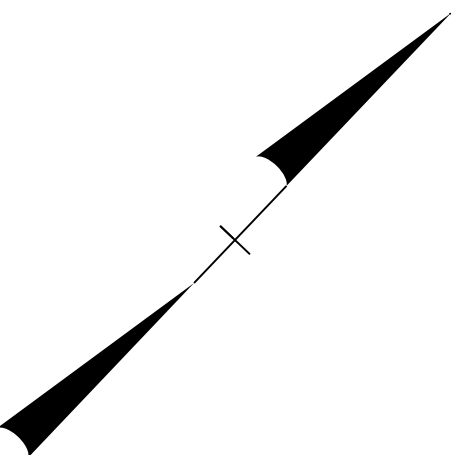
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W-5708C		PM-1	
R/W SHEET NO.			
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DIVISION DESIGN ENGINEER			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
PAVEMENT MARKING LEGEND			
<div>■ ---CRYSTAL / RED PAVEMENT MARKER</div> <div>◆ ---YELLOW / YELLOW PAVEMENT MARKER</div> <div>□ ---CRYSTAL / CRYSTAL PAVEMENT MARKER</div>			



REVISIONS

PAVEMENT MARKING LINES

TA - THERMOPLASTIC (4" WHITE, 90 MILS) EDGE LINE  
TI - THERMOPLASTIC (4" YELLOW, 120 MILS) DOUBLE CENTERLINE



MATCH LINE -L- 25+00  
SEE PM-1

MATCH LINE -L- 33+00  
SEE PM-3



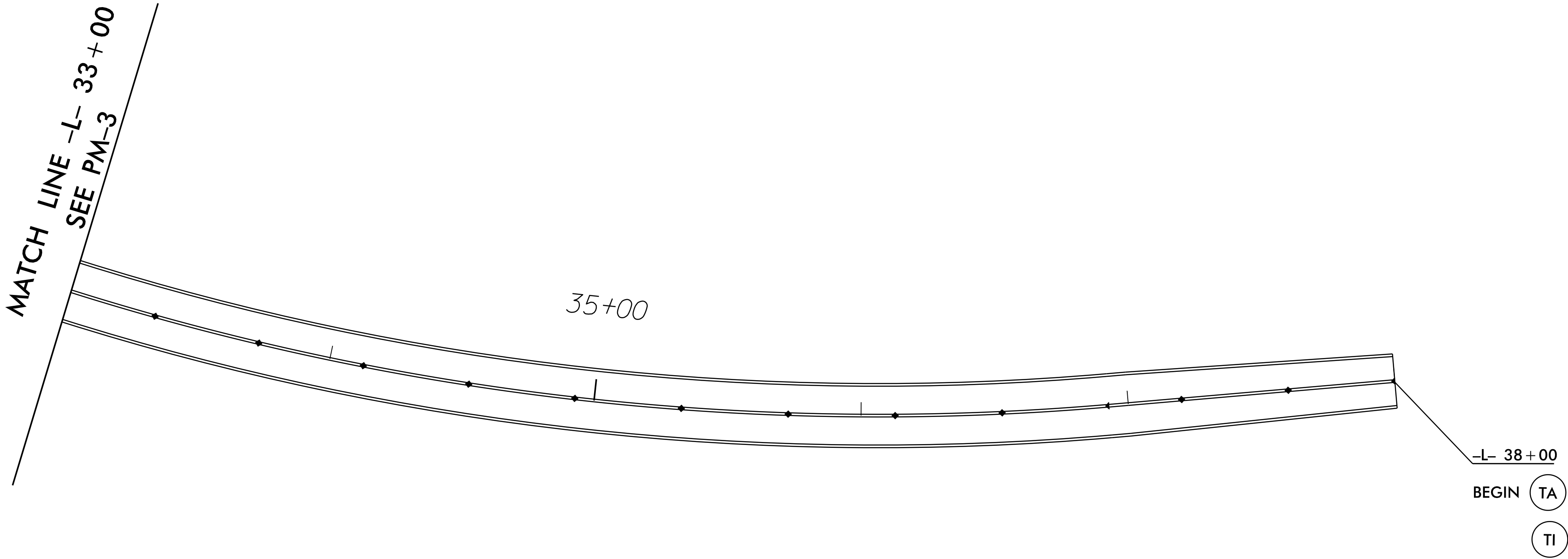
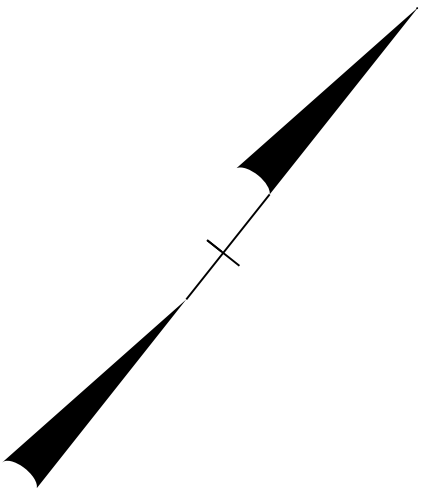
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PAVEMENT MARKING LEGEND			
<div> ---CRYSTAL / RED PAVEMENT MARKER</div> <div> ---YELLOW / YELLOW PAVEMENT MARKER</div> <div> ---CRYSTAL / CRYSTAL PAVEMENT MARKER</div>			



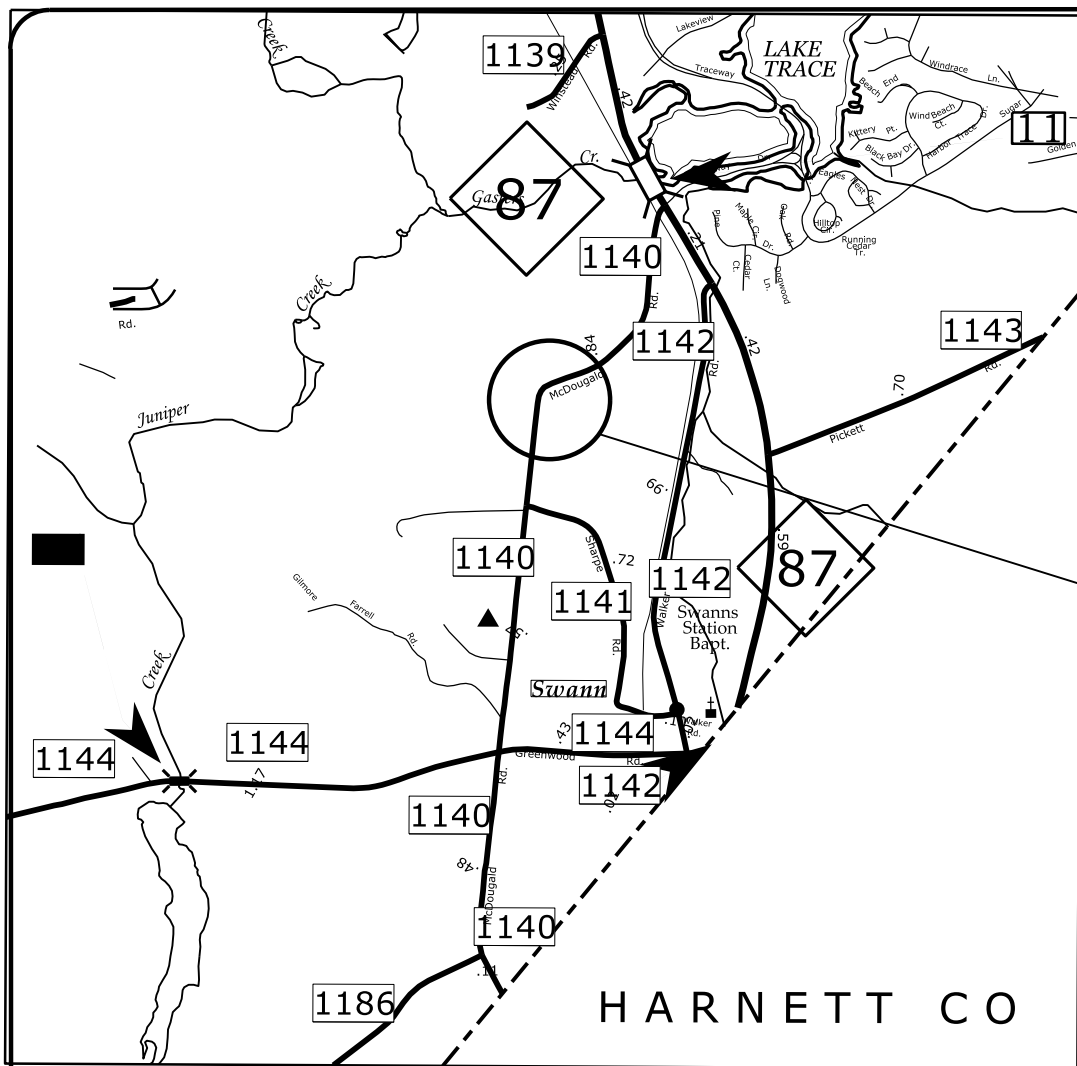
REVISIONS

PAVEMENT MARKING LINES

TA - THERMOPLASTIC (4" WHITE, 90 MILS) EDGE LINE  
TI - THERMOPLASTIC (4" YELLOW, 120 MILS) DOUBLE CENTERLINE



PROJECT REFERENCE NO.		SHEET NO.	
W-5708C		PM-3	
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DIVISION DESIGN ENGINEER			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
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<div><div>■</div>---CRYSTAL / RED PAVEMENT MARKER</div> <div><div>◆</div>---YELLOW / YELLOW PAVEMENT MARKER</div> <div><div>□</div>---CRYSTAL / CRYSTAL PAVEMENT MARKER</div>			

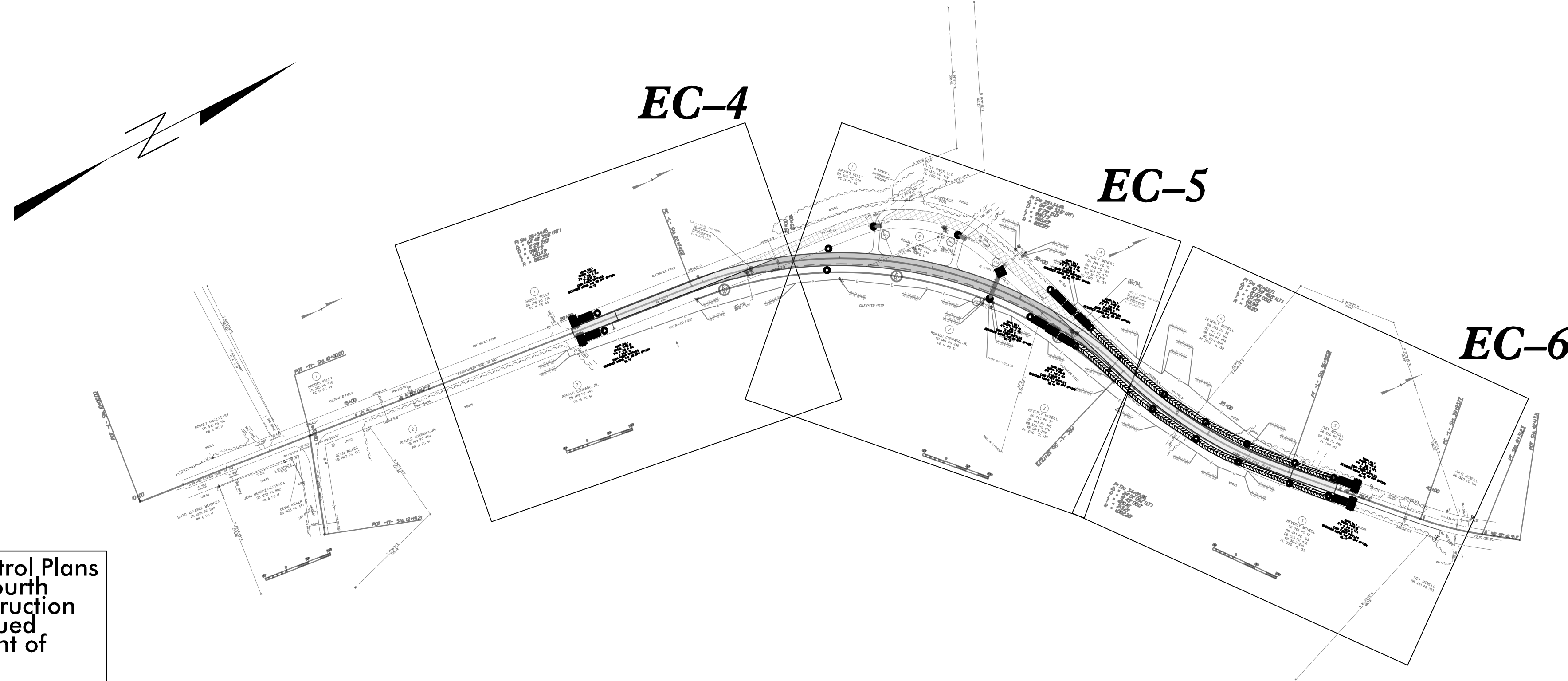


VICINITY MAP

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL  
LEE COUNTY

LOCATION: SR 1140 (FRANK WICKER ROAD) BEGIN WIDENING 610'+-  
NORTH OF SR 1141 (SHARPE ROAD) AND END WIDENING  
1955'+- SOUTH OF NC 87

TYPE OF WORK: GRADING, PAVING, THERMOPLASTIC PAVEMENT MARKINGS,  
AND PAVEMENT MARKERS



These Erosion and Sediment Control Plans comply with the regulations set fourth by the NCG010000 general construction permit effective August 3, 2011 issued by the North Carolina Department of Enviroment and Natural Resources Division of Water Quality.

Prepared By:  
J.Howard Reedy,Jr.  
Level III #3663  
Dec.31,2020

PROJECT CONTACTS:  
District Engineer  
Travis Morgan,PE  
Design & Construct Engineer  
Greg S.Davis,PE  
Resident Engineer  
M.Garry Phillips

PROJECT LENGTH  
0.34 mi.

Prepared in the Office of:  
**DIVISION EIGHT**  
**DIVISION DESIGN & CONSTRUCT UNIT**  
902 N Sandhills Blvd.  
PO Box 1067  
Aberdeen, 28315  
**2018 STANDARD SPECIFICATIONS**

Roadway Standard Drawings

The following roadway ENGLISH standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 17, 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01	Temporary Silt Fence	1632.01	Rock Inlet Sediment Trap Type A
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1622.01	Temporary Berms and Slope Drains	1633.01	Temporary Rock Silt Check Type A
1630.01	Riser Basin	1633.02	Temporary Rock Silt Check Type B
1630.02	Silt Basin Type B	1634.01	Temporary Rock Sediment Dam Type A
1630.03	Temporary Silt Ditch	1634.02	Temporary Rock Sediment Dam Type B
1630.04	Stilling Basin	1635.01	Rock Pipe Inlet Sediment Trap Type A
1630.05	Temporary Diversion	1636.01	Rock Silt Screen

STATE	WBS ELEMENT	SHEET NO.	TOTAL SHEETS
N.C.	W-5708C	EC-1	
WBS ELEMENT		F.A.PROJ.NO.	DESCRIPTION
44854.1.3			PE
44854.2.3			RW
44854.3.3			CONST.

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1605.01	Temporary Silt Fence .....	
1606.01	Special Sediment Control Fence .....	△△△△△△△△△△
1622.01	Temporary Berms and Slope Drains .....	— T —
1630.02	Silt Basin Type B .....	▨
1630.03	Temporary Silt Ditch .....	— TSD —
1630.05	Temporary Diversion .....	— TD —
1630.06	Special Stilling Basin	
1632.03	Rock Inlet Sediment Trap Type C .....	□
1633.01	Temporary Rock Silt Check Type-A .....	▨
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM) .....	⊗
1633.02	Temporary Rock Silt Check Type-B .....	▷
	Wattle .....	⌒
	Wattle with Polyacrylamide (PAM) .....	⌒
1634.02	Temporary Rock Sediment Dam Type-B .....	⊞
1635.01	Rock Pipe Inlet Sediment Trap Type-A .....	⊞



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
W-5708C	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10’ OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50’ IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
W-5708C	EC-3A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# SOIL STABILIZATION SUMMARY SHEET

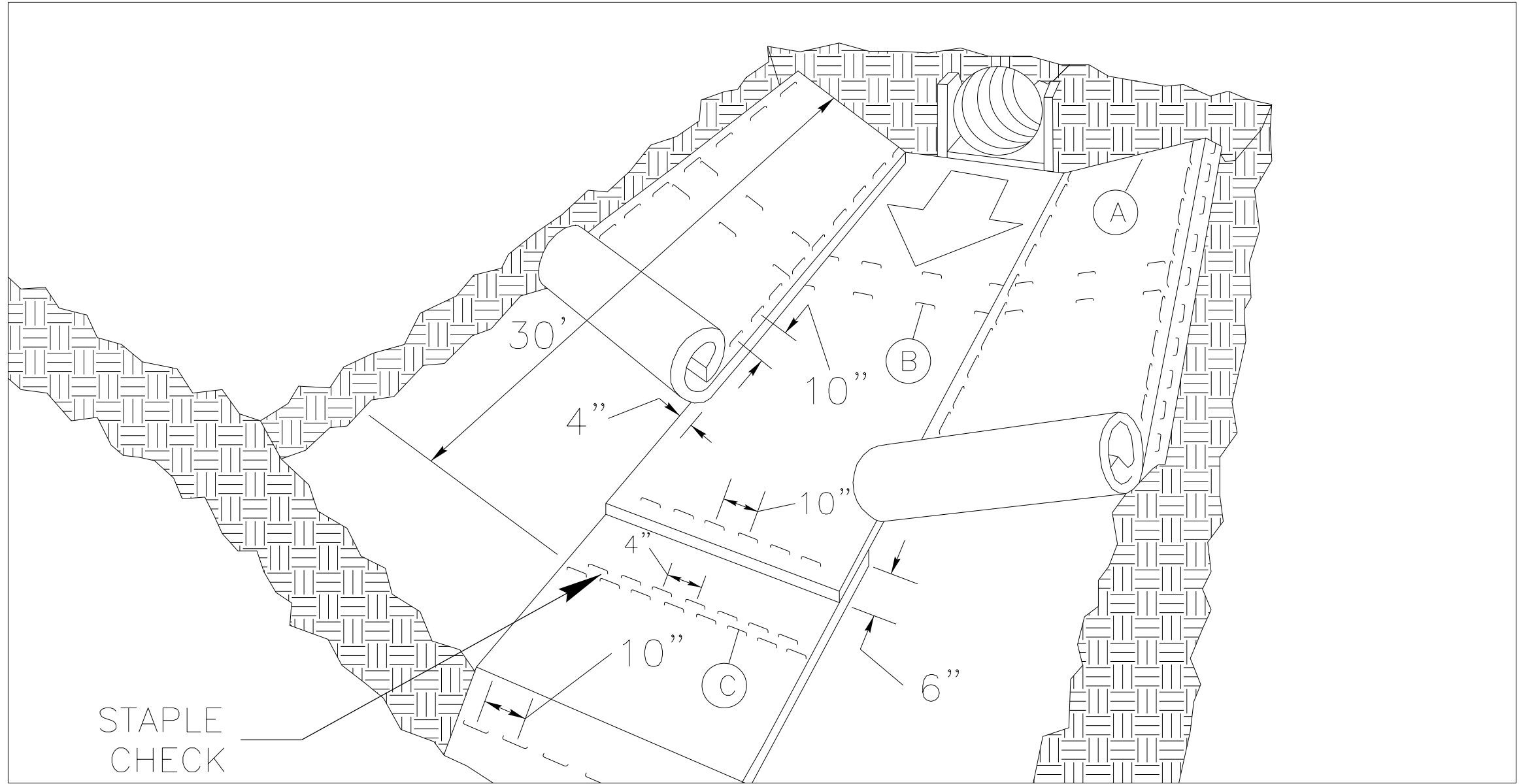
## ***MATTING FOR EROSION CONTROL***

## PERMANENT SOIL REINFORCEMENT MAT

[illegible][illegible]

# MATTING INSTALLATION DETAIL

PROJECT REFERENCE NO.	SHEET NO.
W-5708C	EC-3B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**MATTING IN DITCHES**

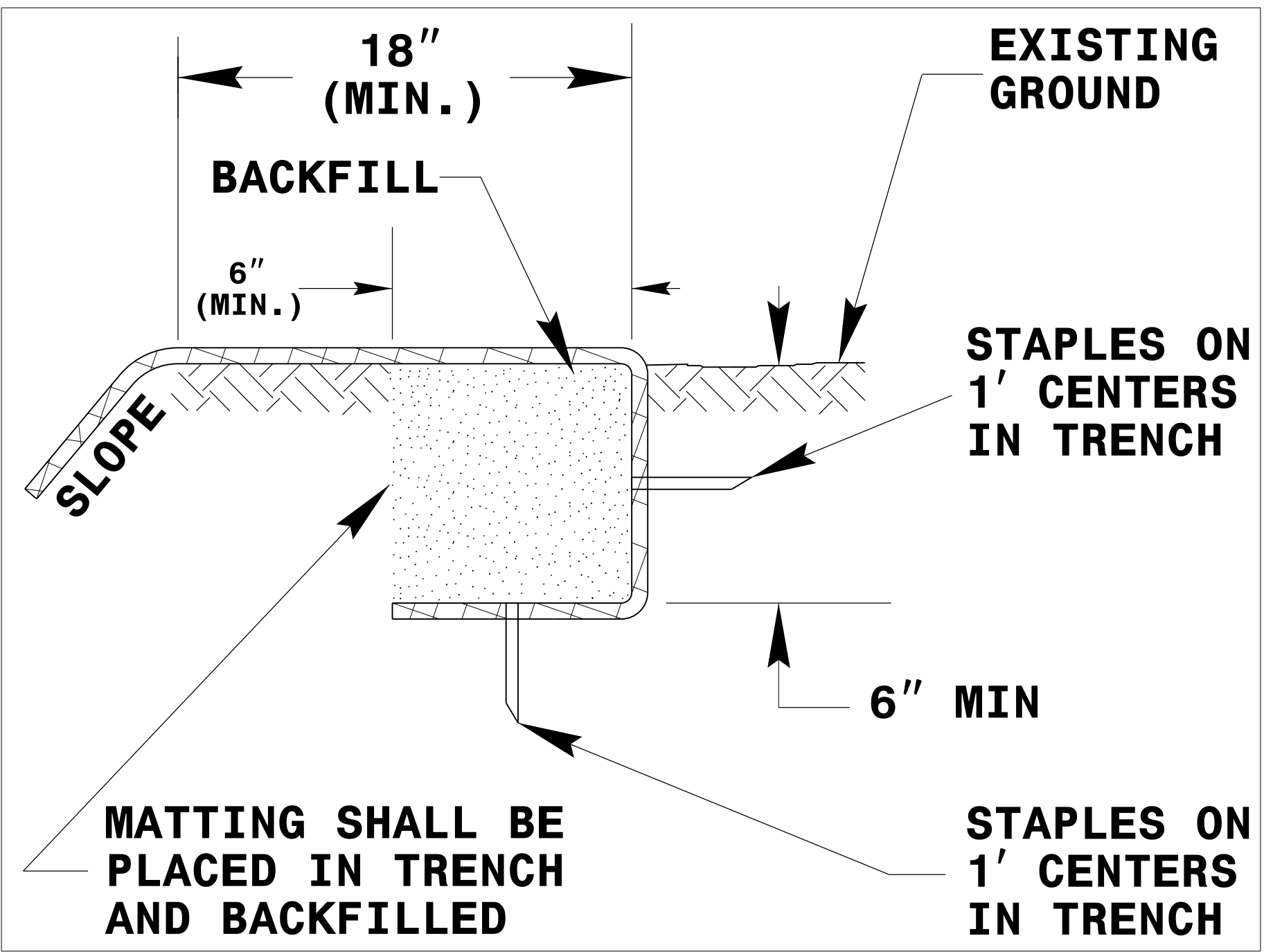
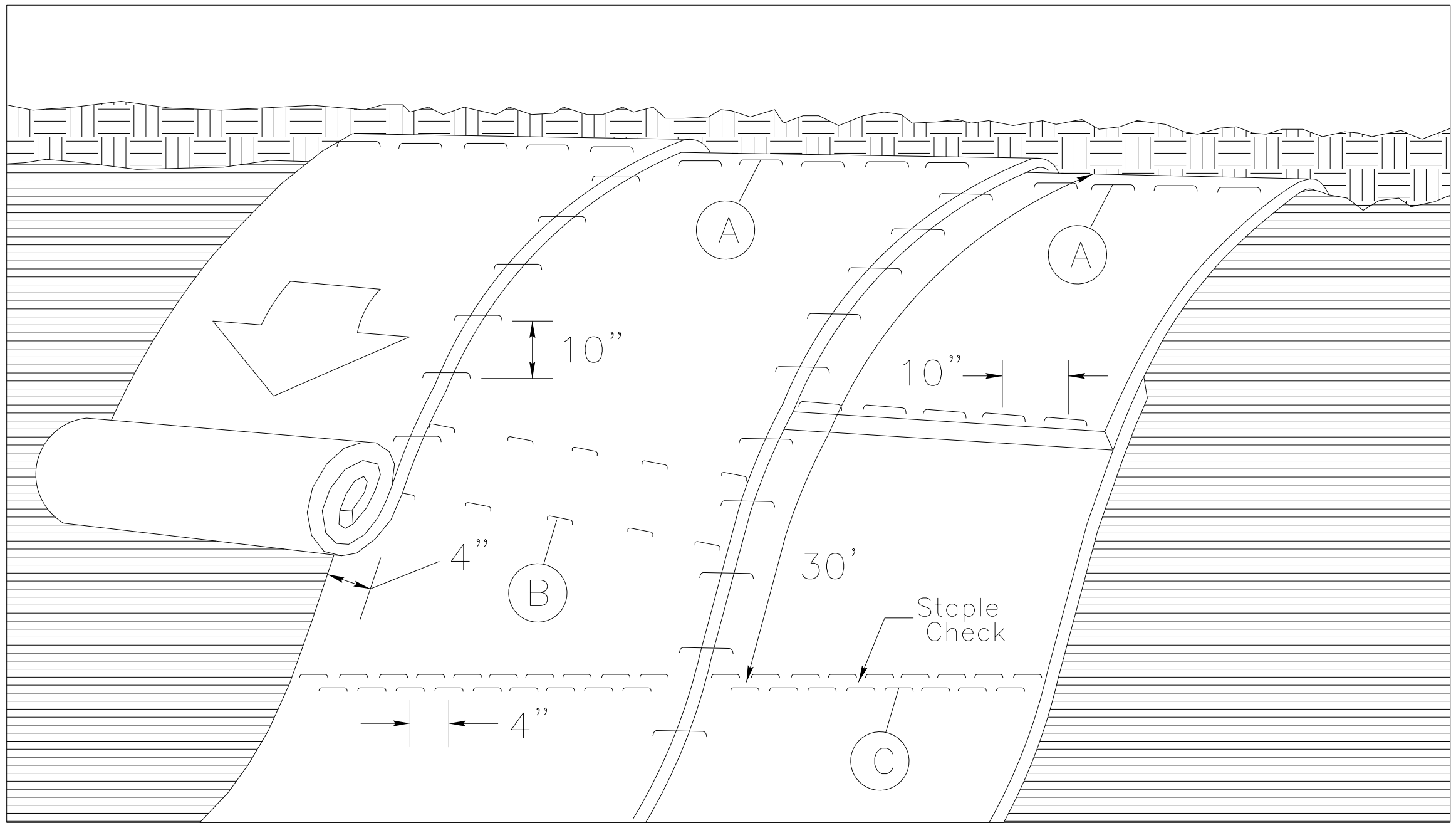


DIAGRAM A



**MATTING ON SLOPES**

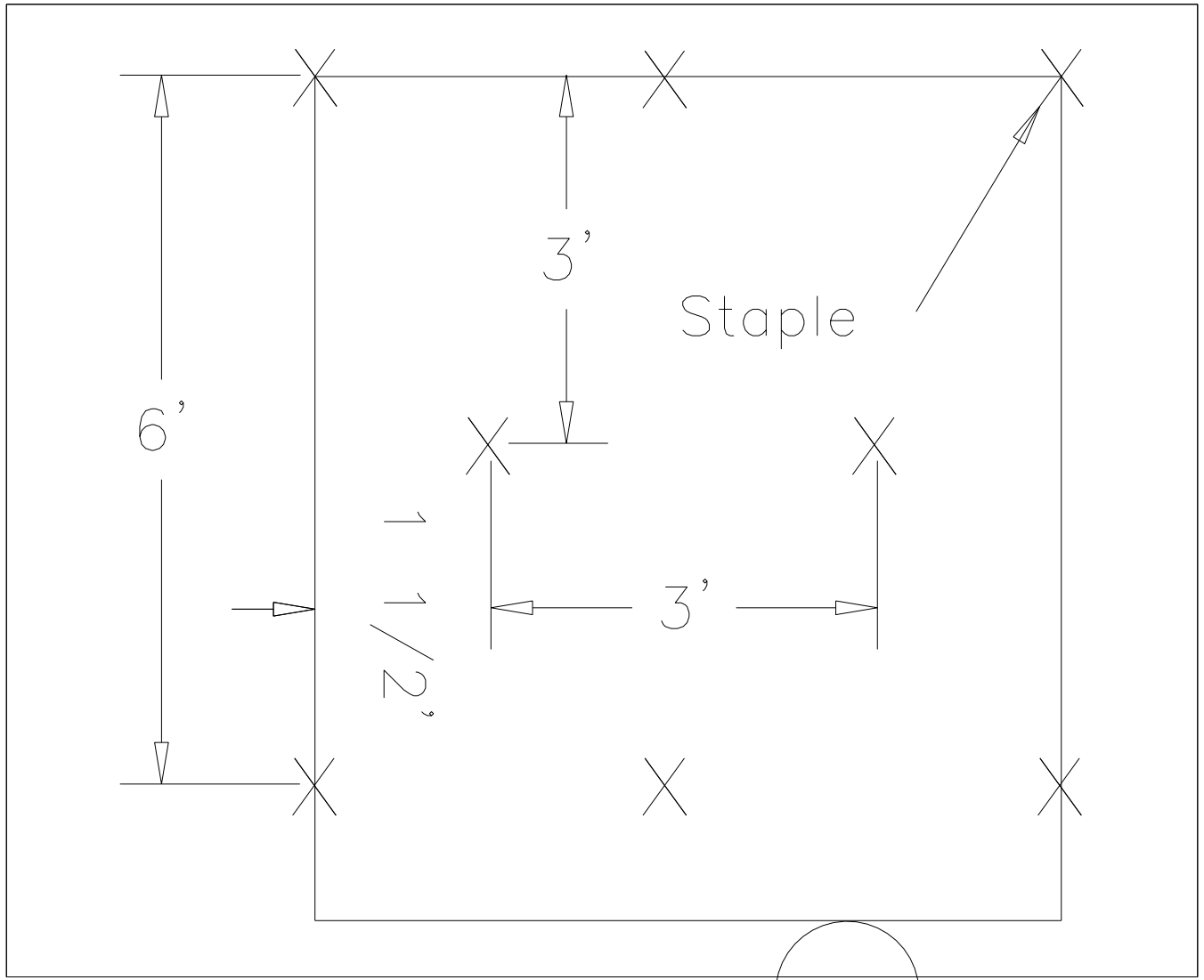


DIAGRAM B

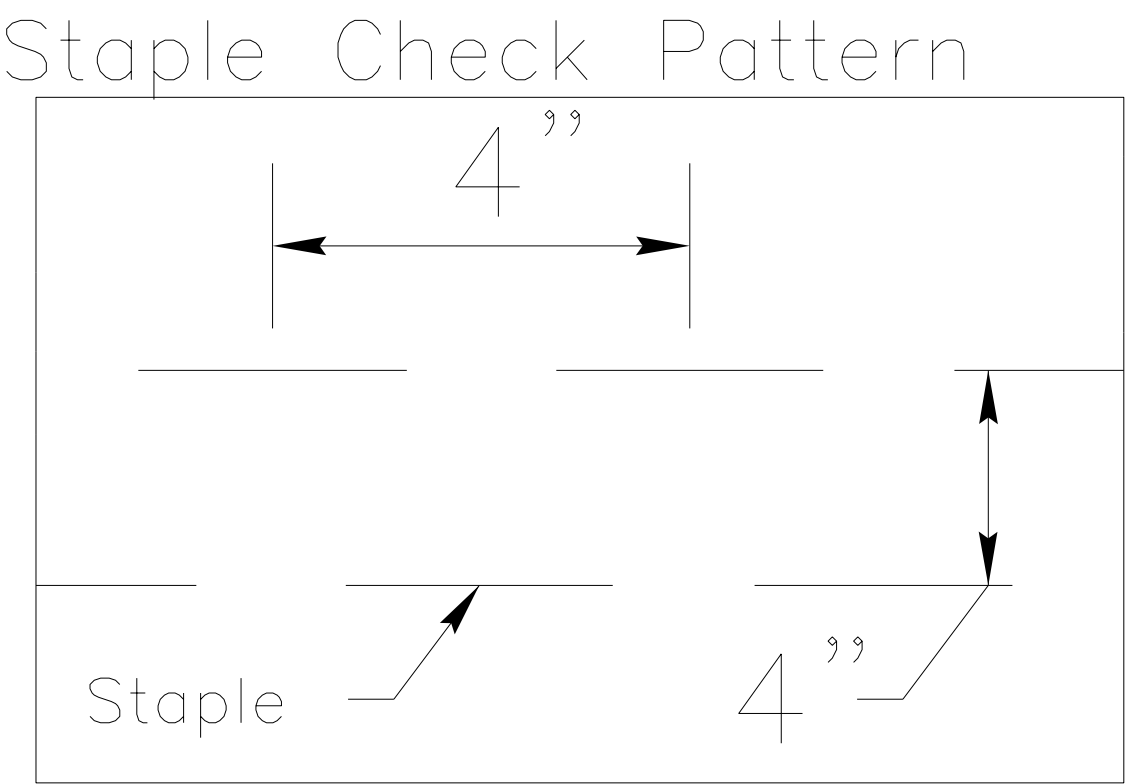


DIAGRAM C

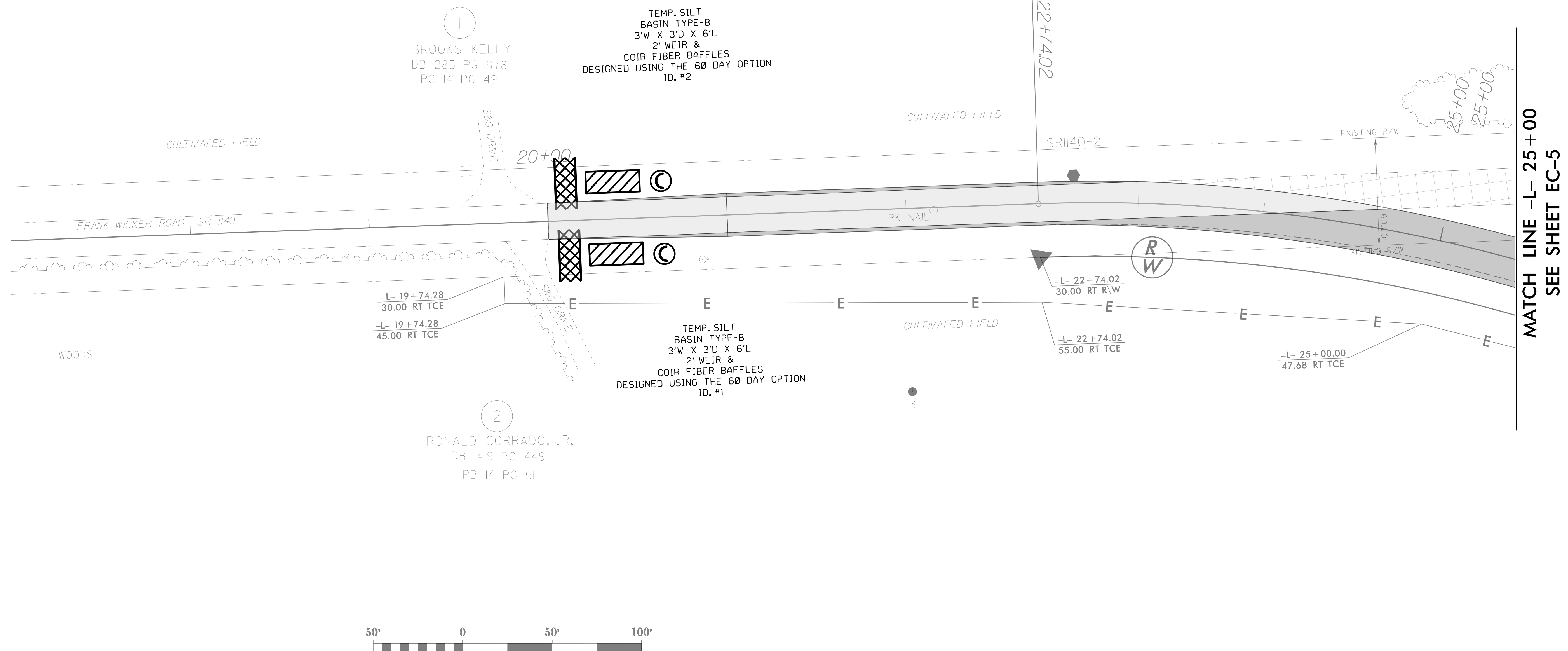
**NOTES:**

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

$PI\ Sta\ 28+34.45$   
 $\Delta = 64^{\circ} 48' 32.6'' (RT)$   
 $D = 6^{\circ} 29' 21.0''$   
 $L = 998.73'$   
 $T = 560.43'$   
 $R = 882.95'$



**MATCH LINE -L- 25+00  
SEE SHEET EC-5**

## REVISIONS

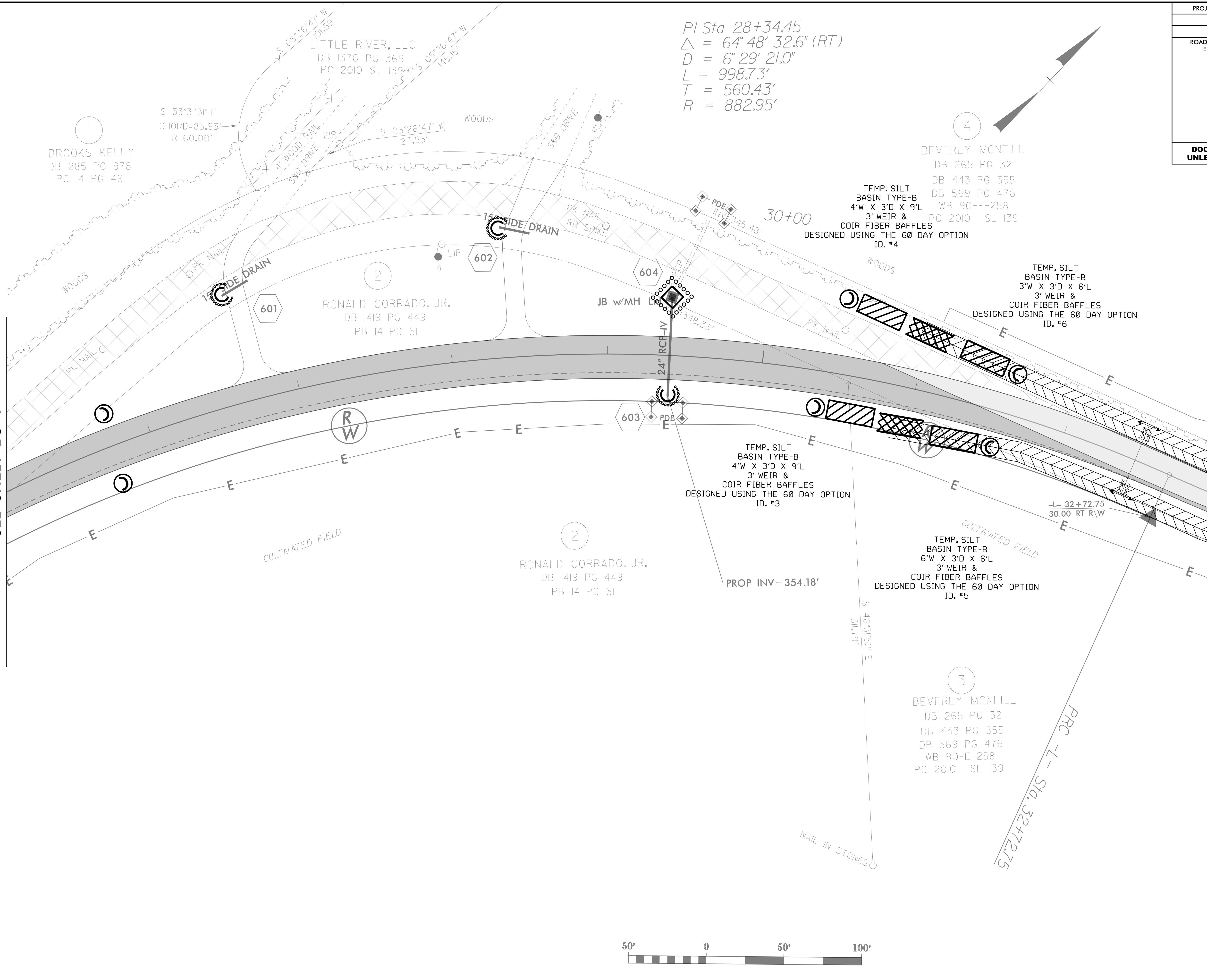
8/17/99

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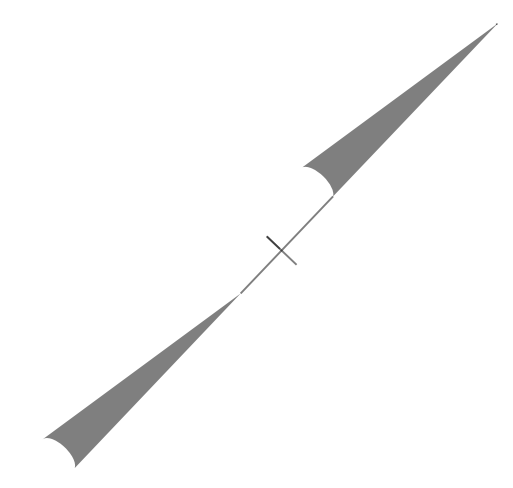


REVISIONS

MATCHLINE -L- 25+00  
SEE SHEET EC-4



PI Sta 28+34.45  
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 $L = 998.73'$   
 $T = 560.43'$   
 $R = 882.95'$



PROJECT REFERENCE NO.		SHEET NO.	
W-5708C		EC-5	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	





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300015 AL 0118-302810

8/17/99

REVISIONS

MATCH LINE -L- 33+00  
SEE SHEET EC-6

PI Sta 34+85.96  
 $\Delta = 24^{\circ} 01' 09.1''$  (LT)  
 $D = 5^{\circ} 43' 00.0''$   
 $L = 420.16'$   
 $T = 213.21'$   
 $R = 1,002.26'$

4  
BEVERLY MCNEILL  
DB 265 PG 32  
DB 443 PG 355  
DB 569 PG 476  
WB 90-E-258  
PC 2010 SL 139

5  
IVEY MCNEILL  
DB 286 PG 317  
DB 336 PG 495  
PC 1PG 147

3  
BEVERLY MCNEILL  
DB 265 PG 32  
DB 443 PG 355  
DB 569 PG 476  
WB 90-E-258  
PC 2010 SL 139

JULIE MCNEILL  
DB 1360 PG 104

IVEY MCNEILL  
DB 443 PG 355

PI Sta 40+62.71  
 $\Delta = 10^{\circ} 59' 46.8''$  (LT)  
 $D = 8^{\circ} 00' 00.0''$   
 $L = 137.45'$   
 $T = 68.94'$   
 $R = 716.20'$

+05.02  
LT TCE  
1.23  
CE  
0.23  
TCE

-L- 34+61.06  
60.00 LT TCE

-L- 36+00.00  
40.00 LT TCE

-L- 36+81.96  
29.92 LT TCE

-L- 34+00.00  
45.00 RT TCE

-L- 35+00.00  
45.00 RT TCE

-L- 35+51.92  
49.92 RT TCE

-L- 36+10.93  
30.00 RT TCE

-L- 36+10.93  
45.00 RT TCE

TEMP. SILT  
BASIN TYPE-B  
6'W X 3'D X 12'L  
4' WEIR &  
COIR FIBER BAFFLES  
DESIGNED USING THE 60 DAY OPTION  
ID. #8

TEMP. SILT WOODS  
BASIN TYPE-B  
6'W X 3'D X 12'L  
4' WEIR &  
COIR FIBER BAFFLES  
DESIGNED USING THE 60 DAY OPTION  
ID. #7



N 81°38'45" W  
141.48'

N 81°19'41" W  
296.62'

PC Sta. 39+93.77

N 20°30'56" W  
418.76'

S&G DRIVE  
18"  
INV=334.48'  
15" RCP  
EXISTING R/W  
100'  
S&G DRIVE  
18"  
INV=332.01'  
15" RCP  
EXISTING R/W

INCOMPLETE PLANS  
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

R/W SHEET NO.

ROADWAY DESIGN  
ENGINEER

HYDRAULICS  
ENGINEER

PROJECT REFERENCE NO.

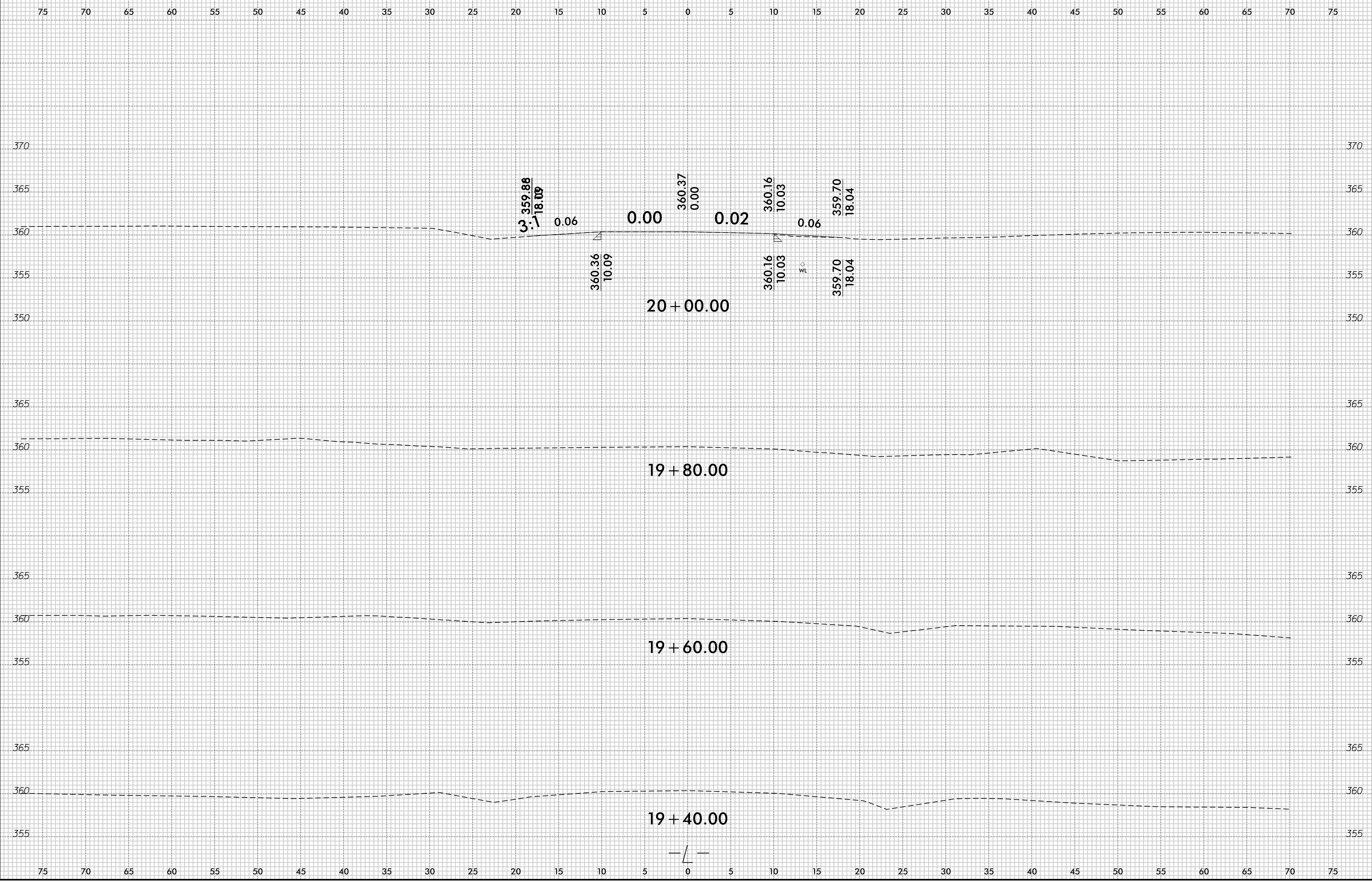
W-5708C

SHEET NO.

EC-7



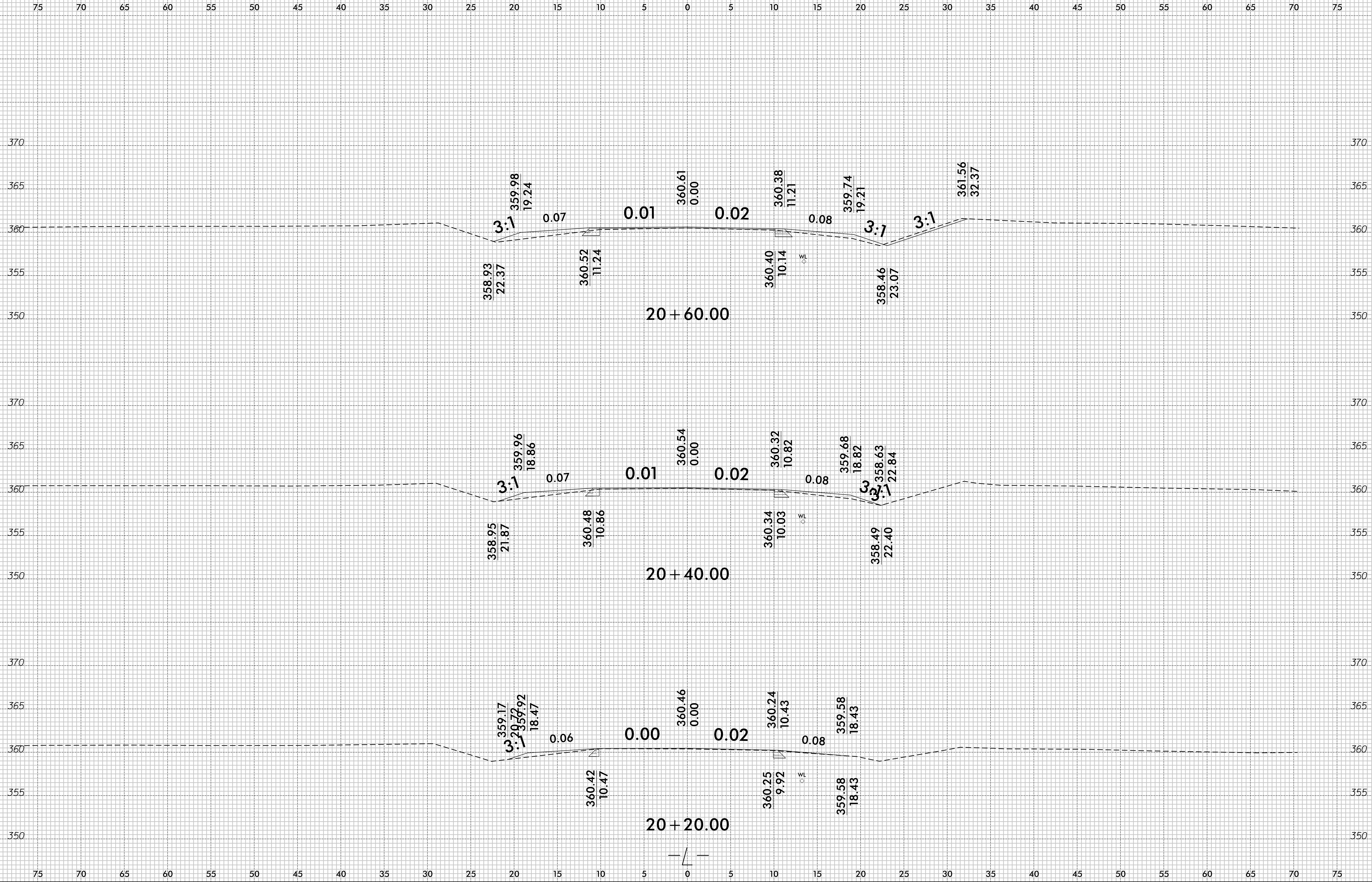
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Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt												
-L-	(cu. yd.)	(cu. yd.)	-L-	(cu. yd.)	(cu. yd.)												
20+20.00	0	0	30+20.00	4	98												
20+40.00	1	4	30+40.00	6	89												
20+60.00	3	7	30+60.00	8	77												
20+80.00	5	8	30+80.00	11	66												
21+00.00	10	8	31+00.00	15	60												
21+20.00	15	7	31+20.00	21	57												
21+40.00	20	7	31+40.00	27	55												
21+55.02	17	5	31+60.00	30	56												
21+60.00	6	2	31+70.74	16	29												
21+80.00	24	7	31+80.00	15	24												
22+00.00	27	9	32+00.00	33	46												
22+20.00	31	10	32+20.00	37	39												
22+40.00	32	11	32+40.00	41	33												
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6/23/18

6/23/18

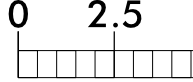
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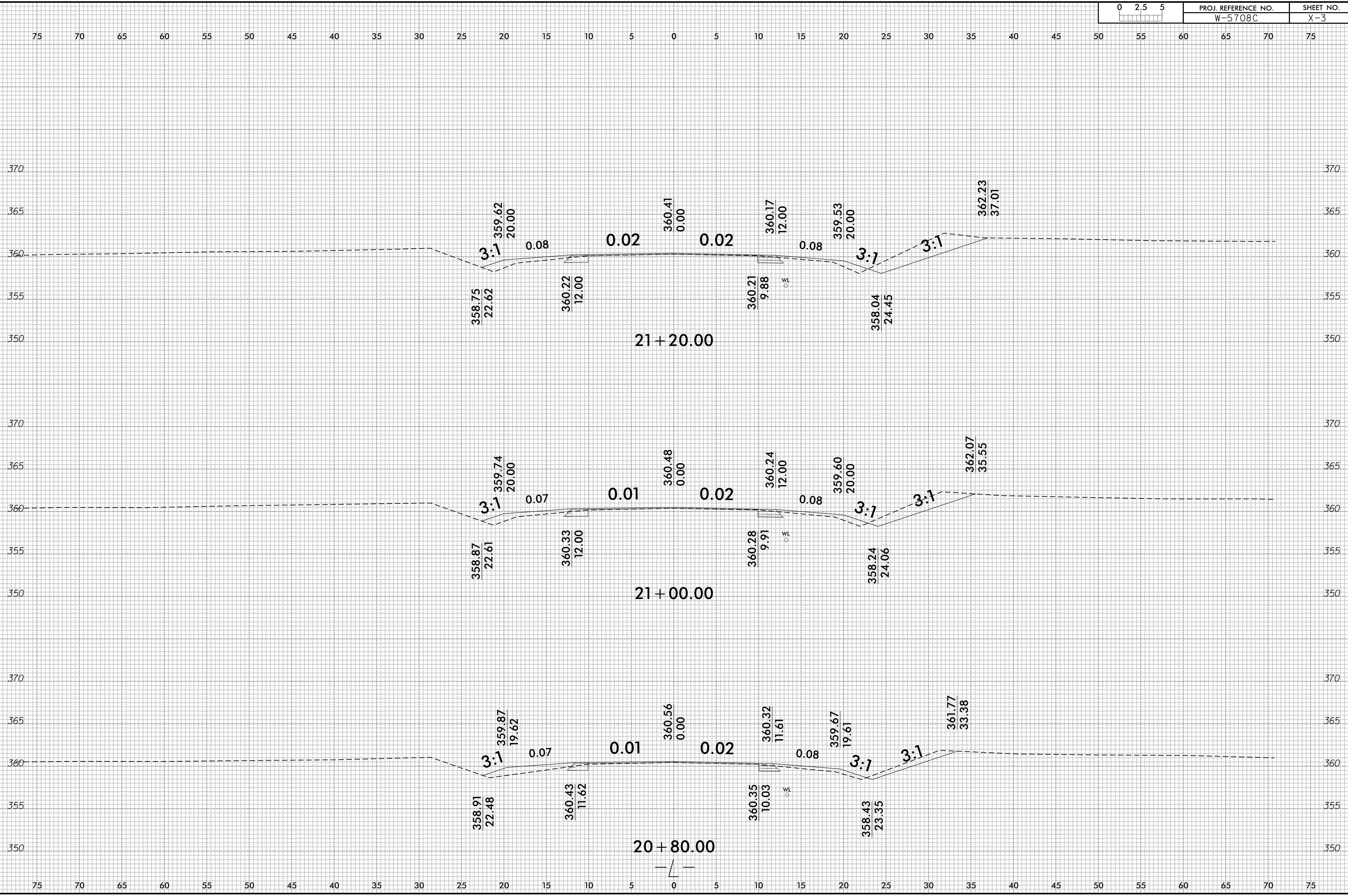




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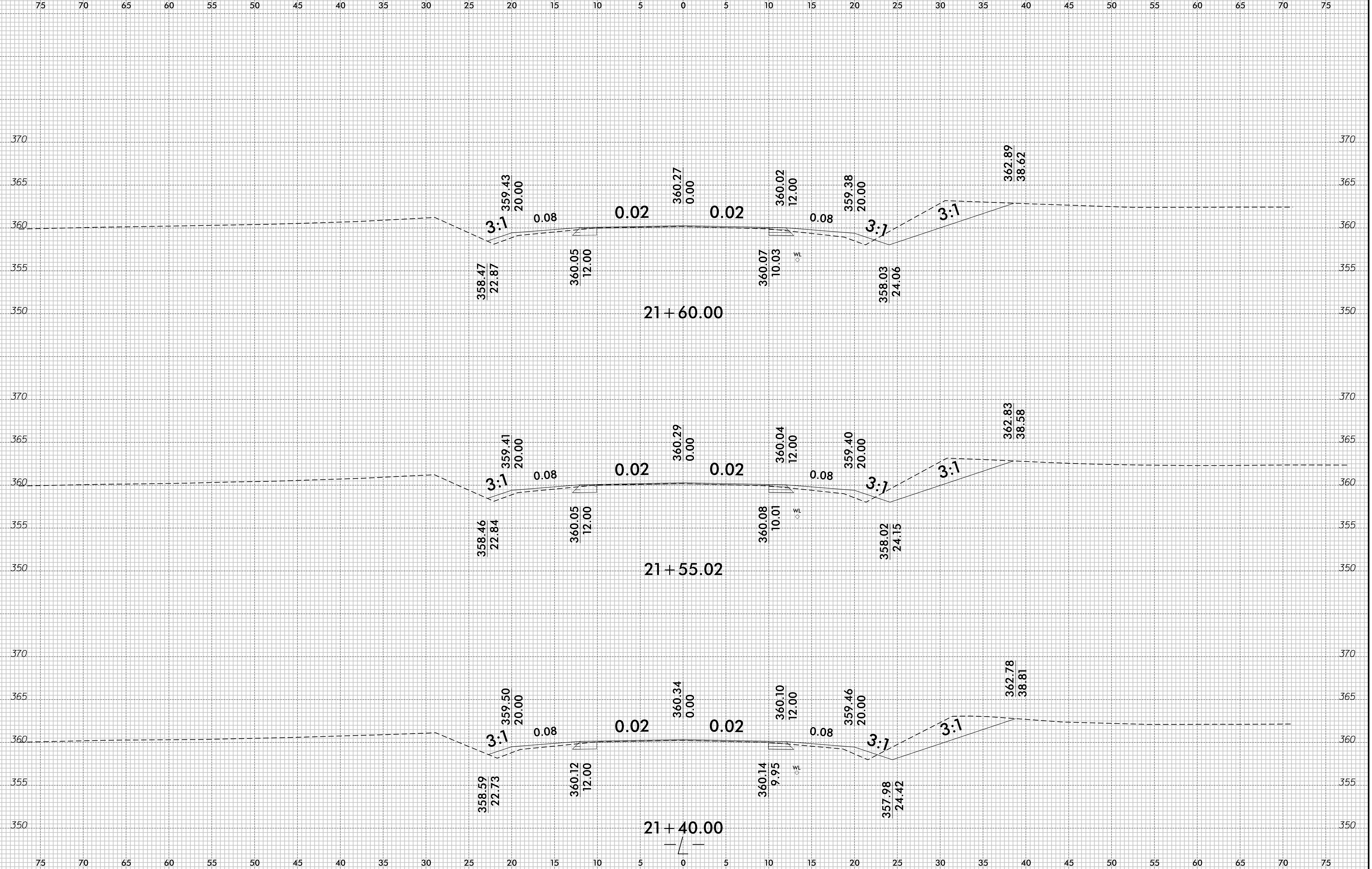
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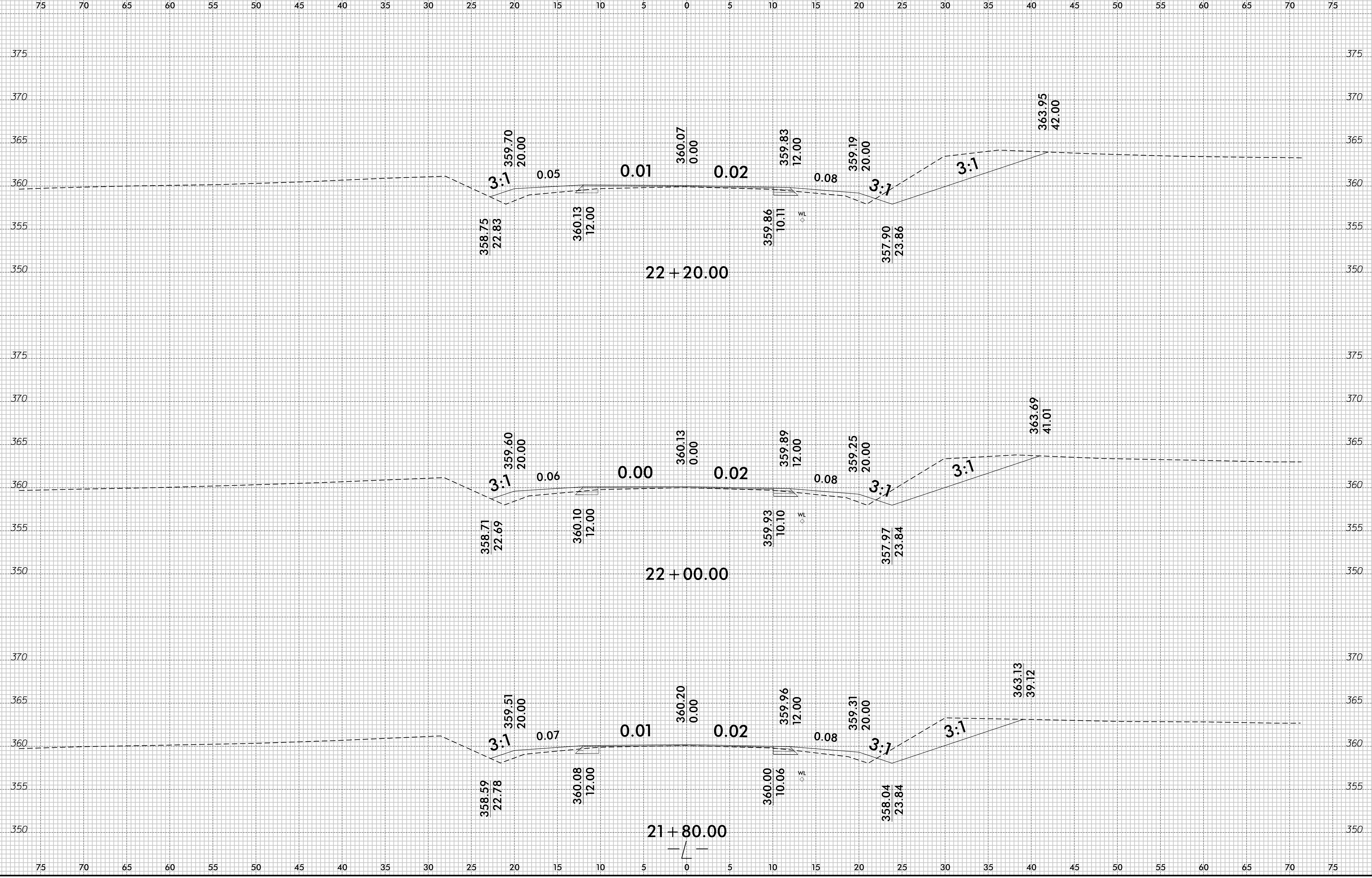


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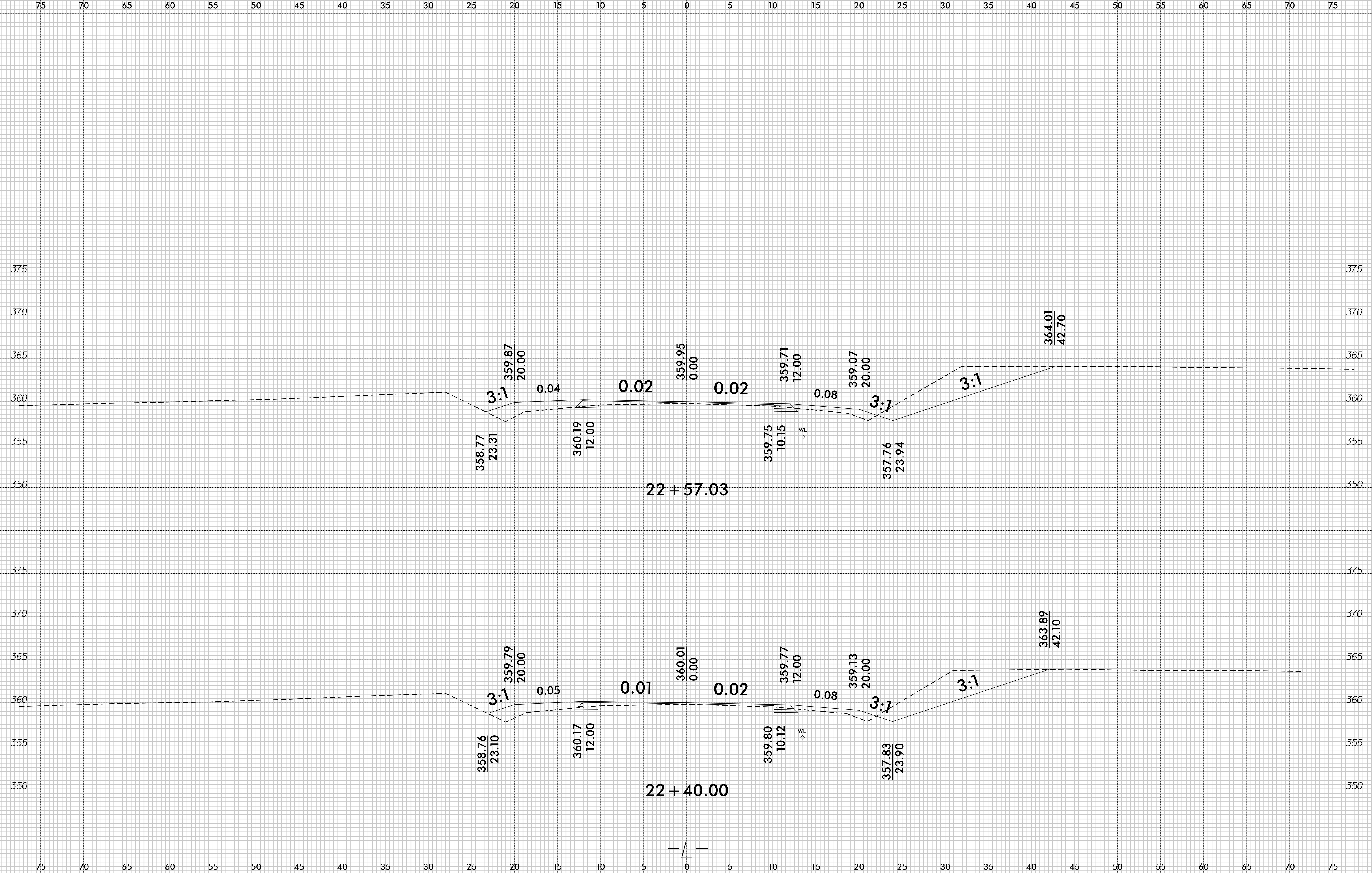
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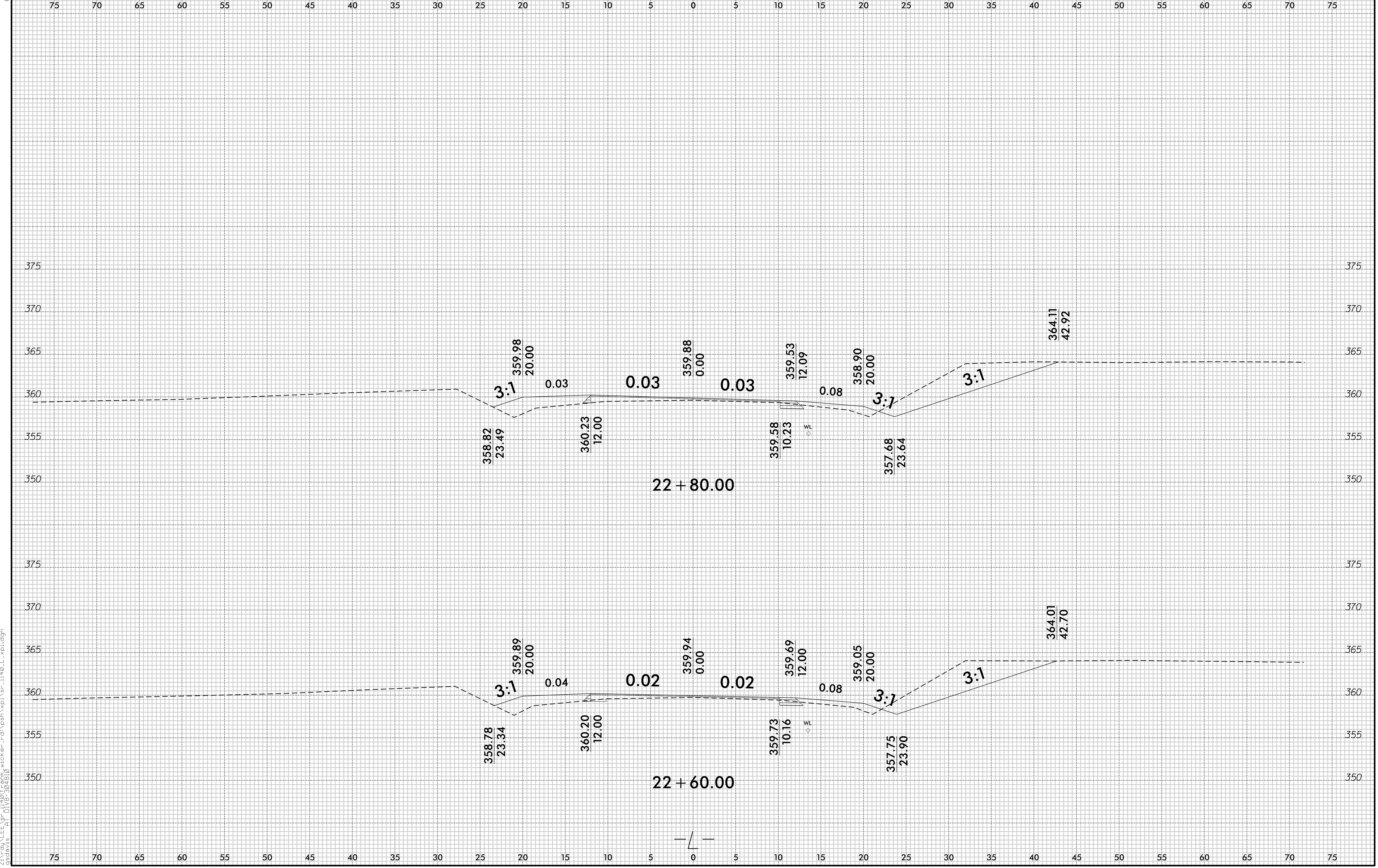


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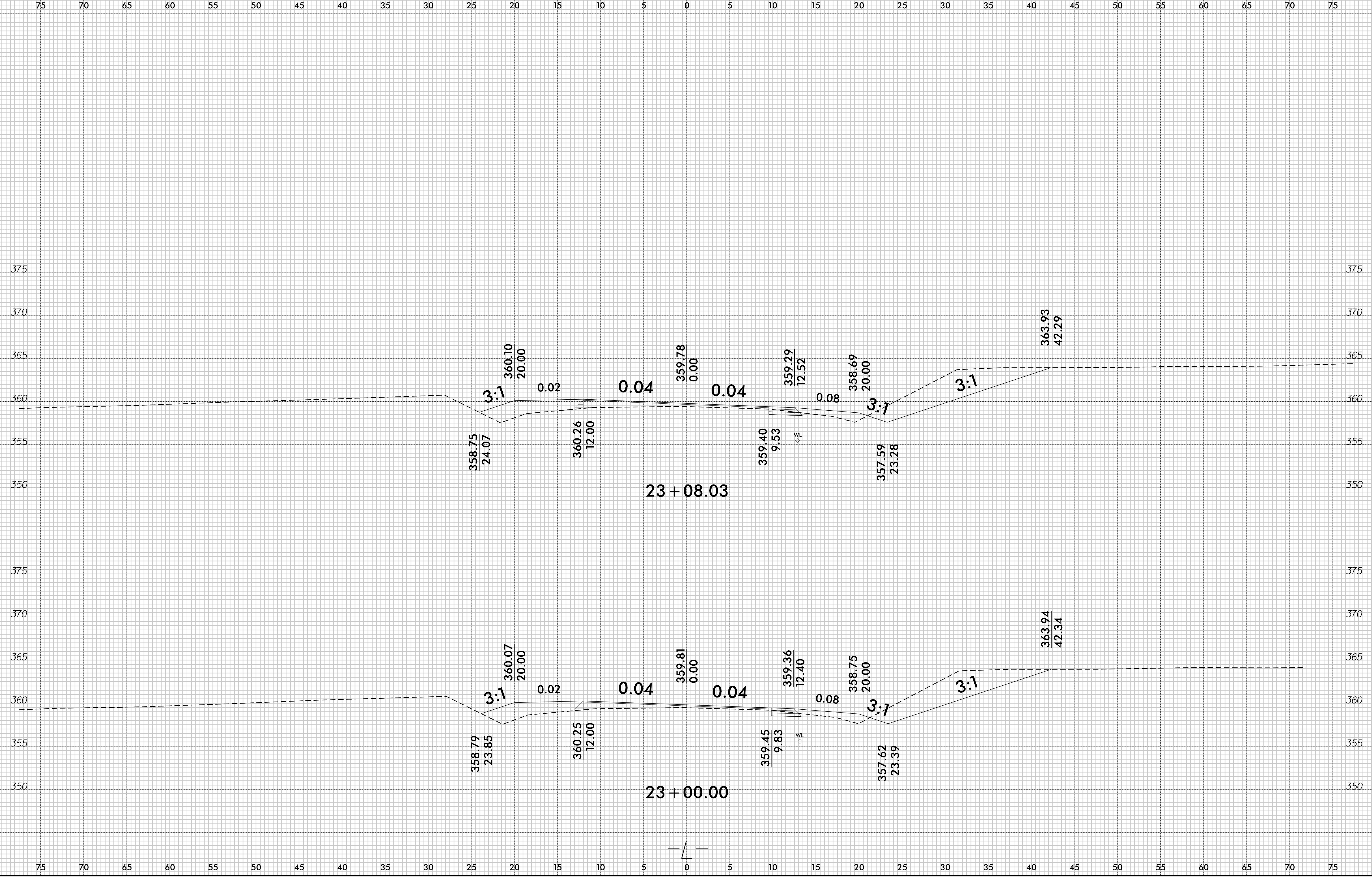


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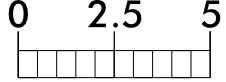
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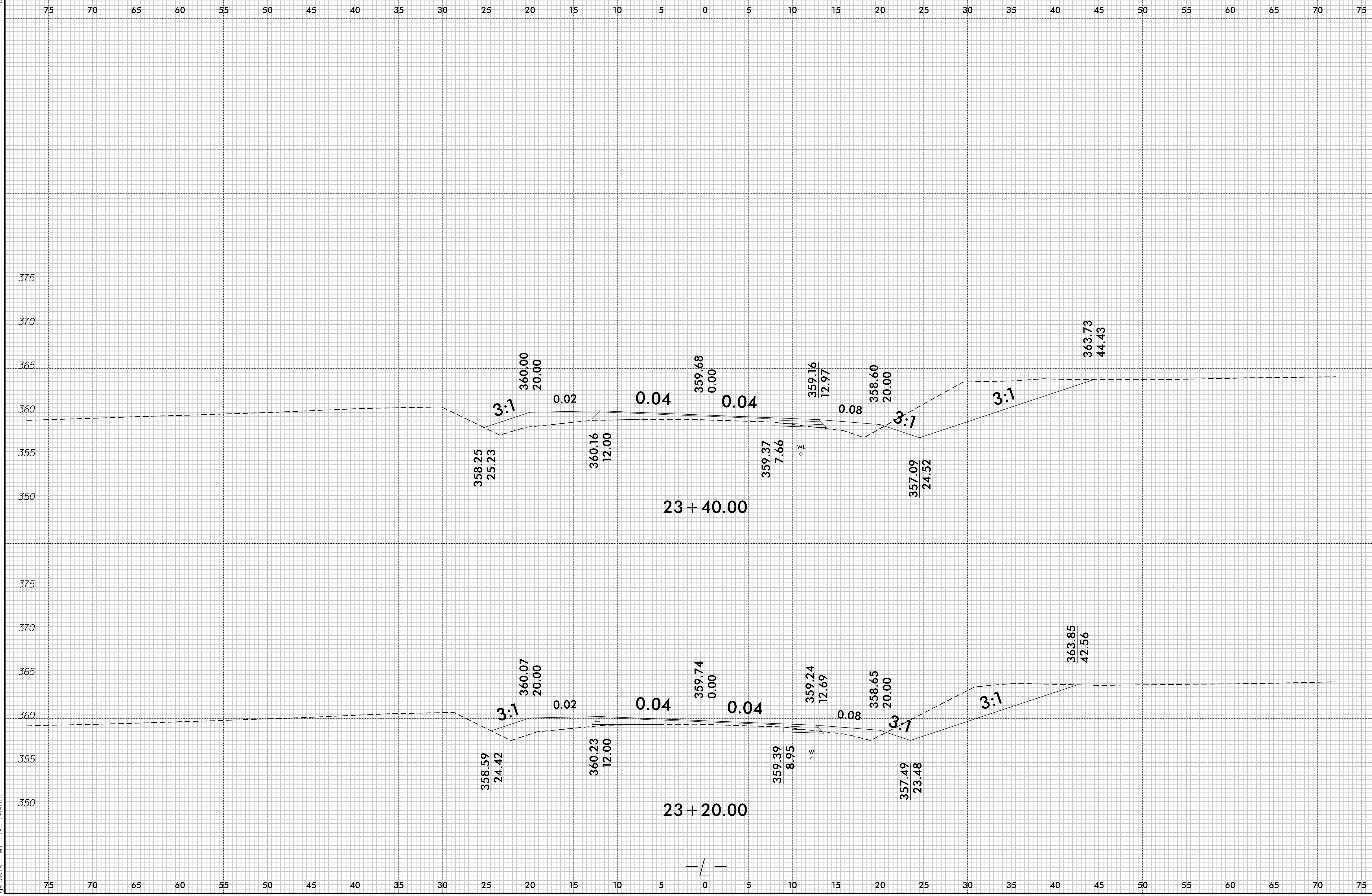


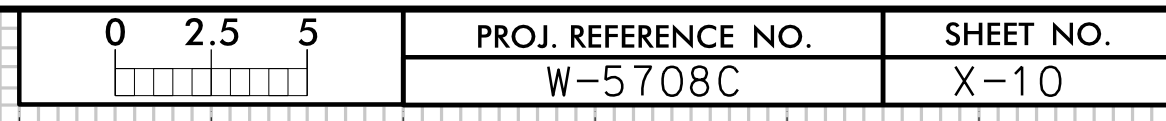
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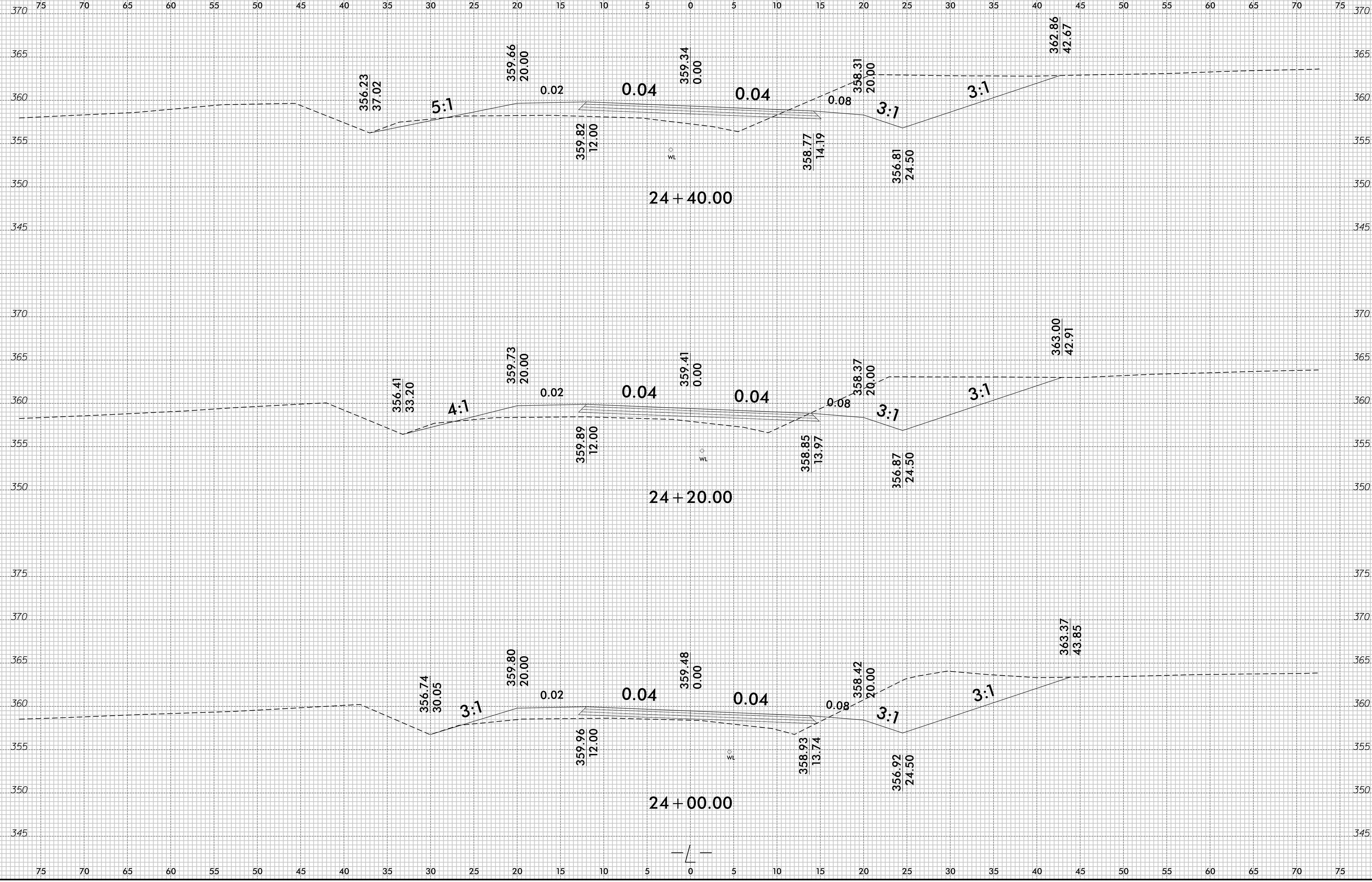
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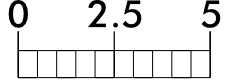


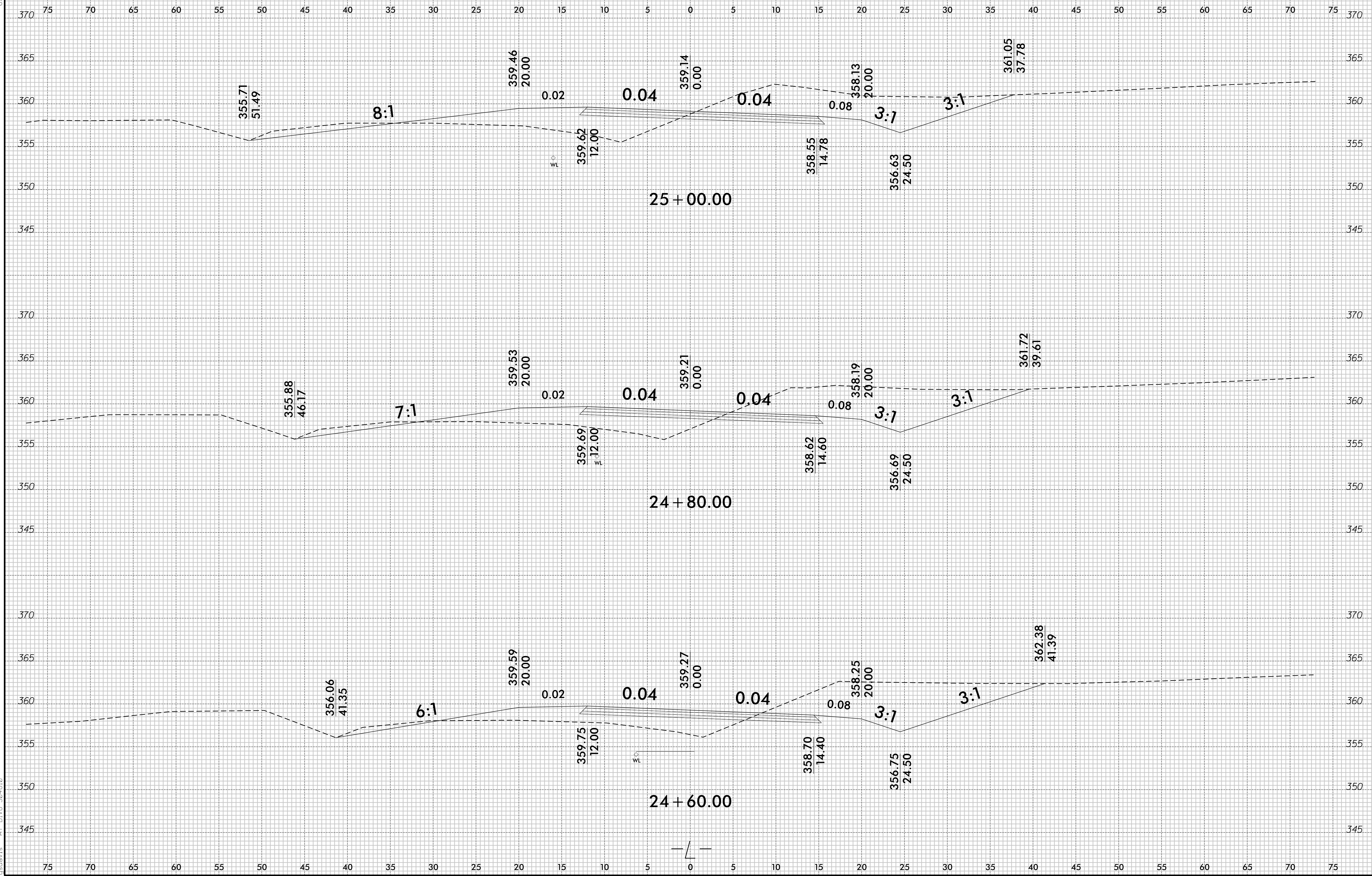
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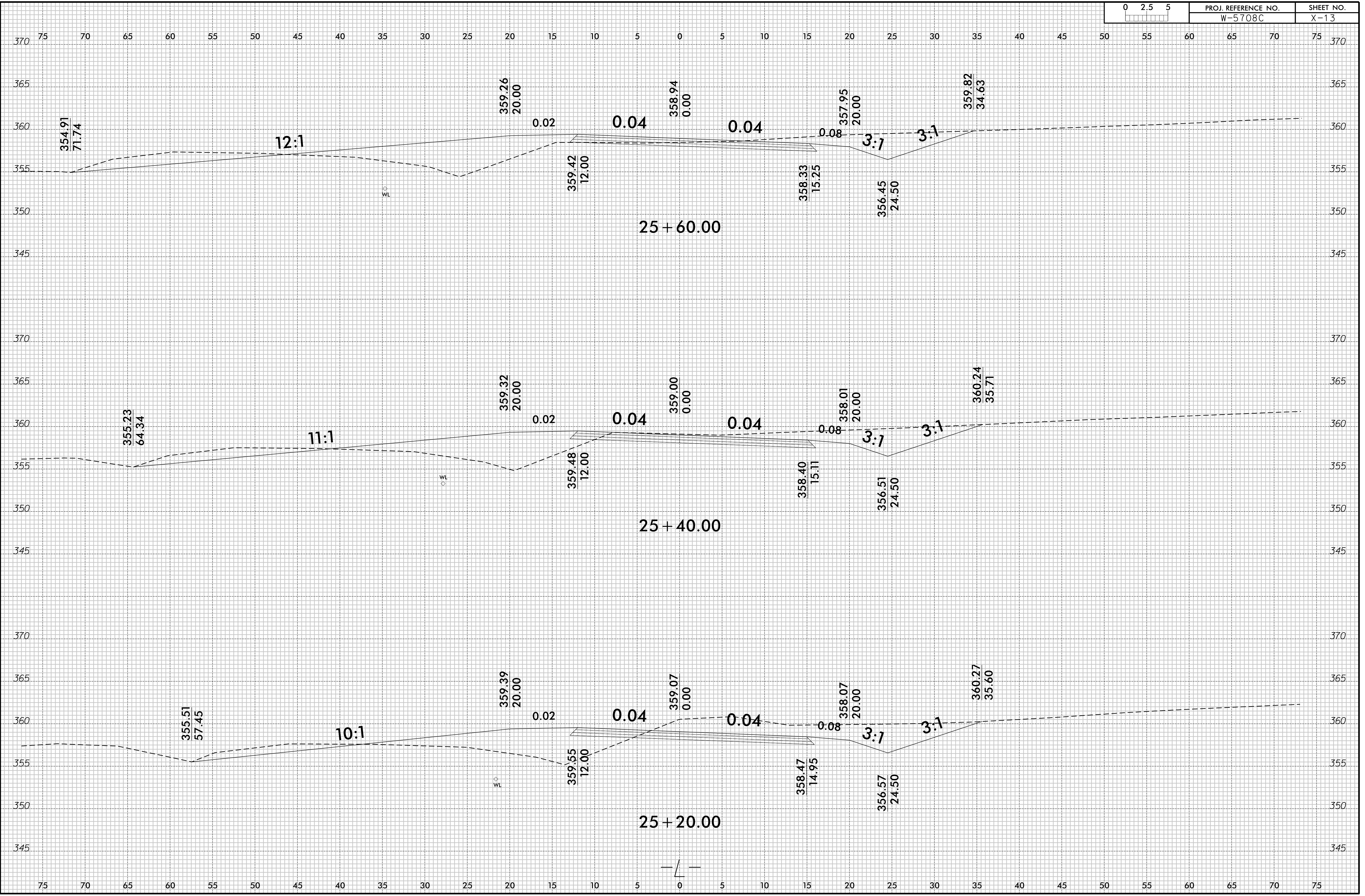
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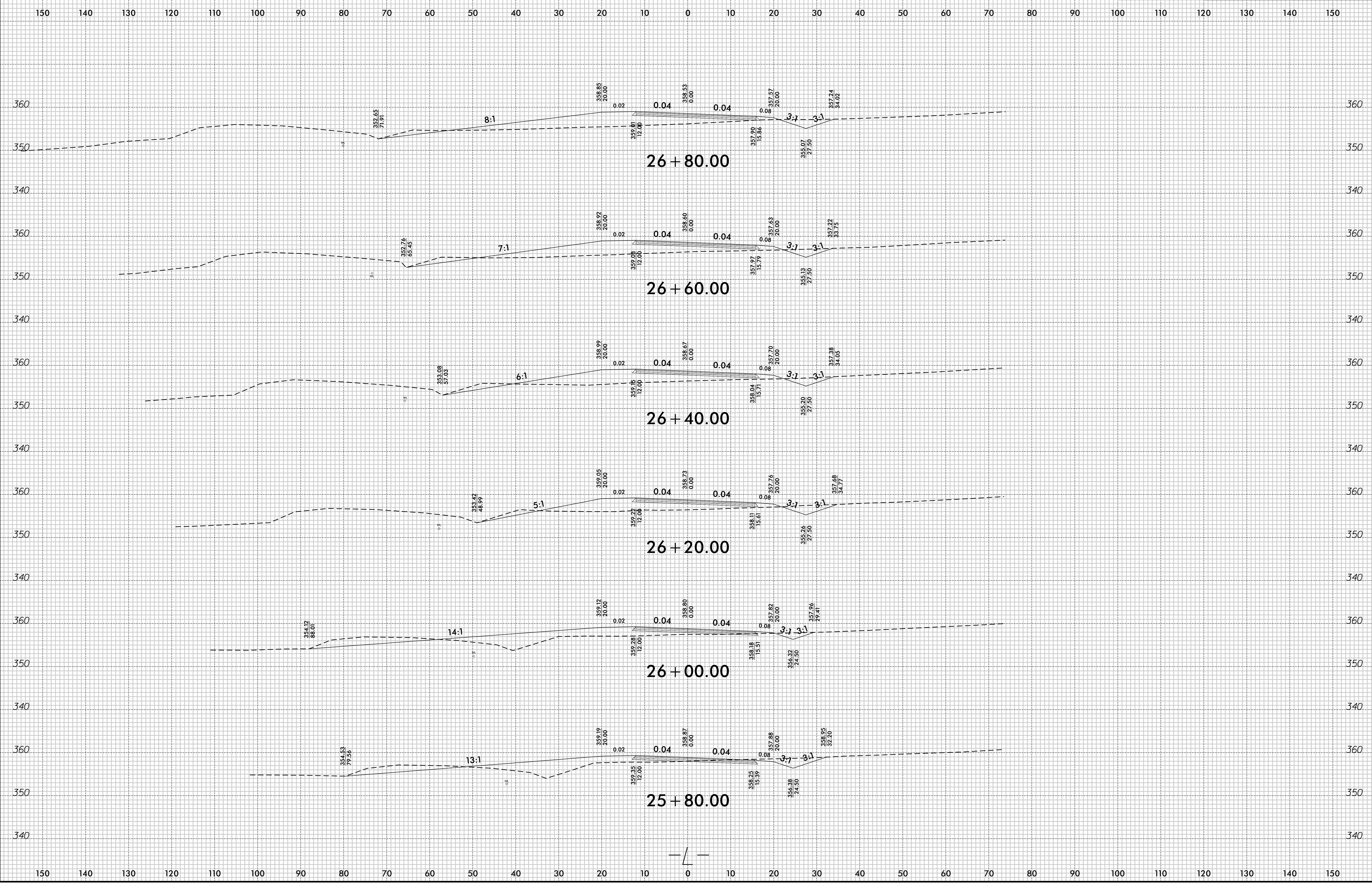
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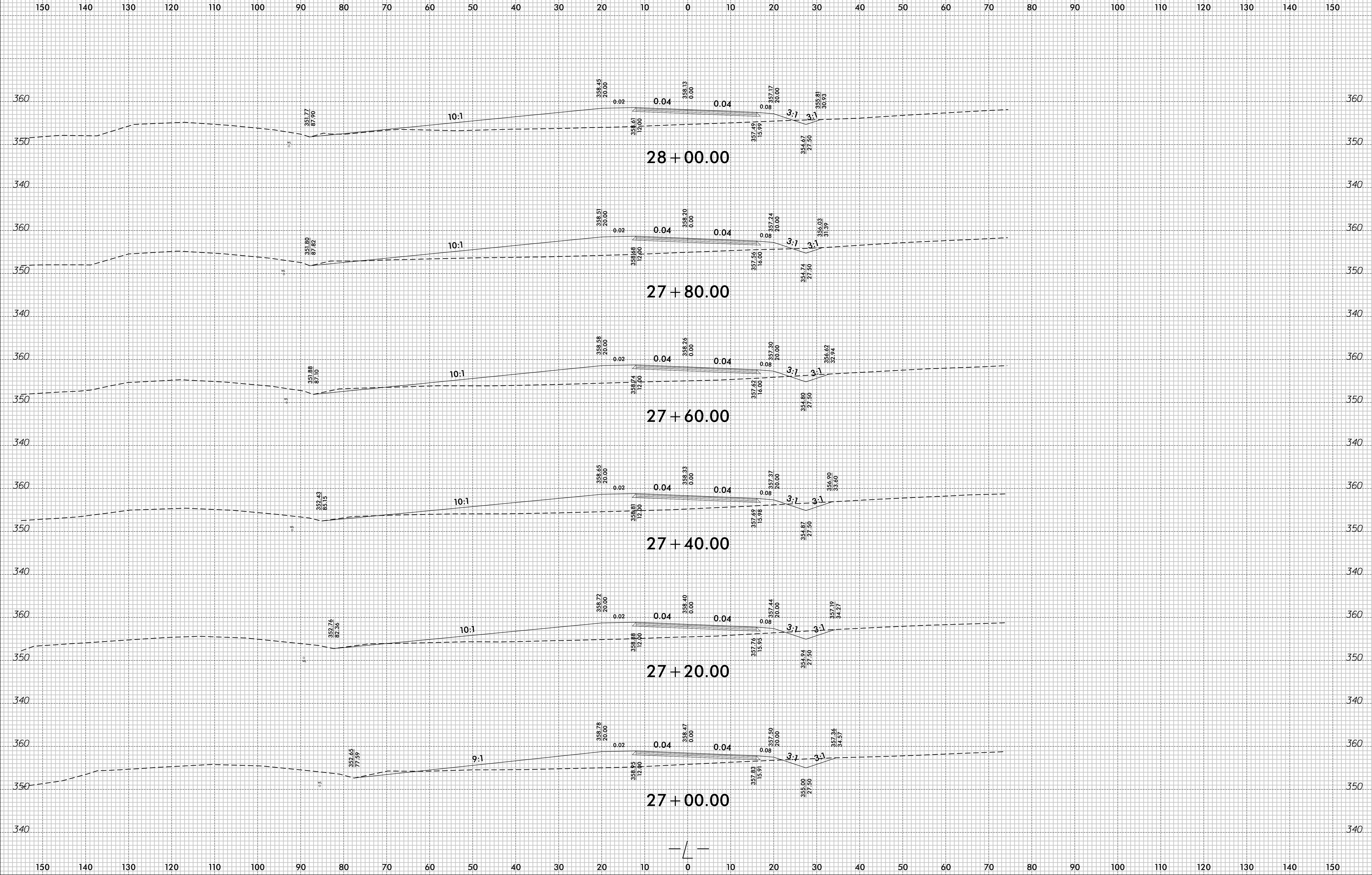


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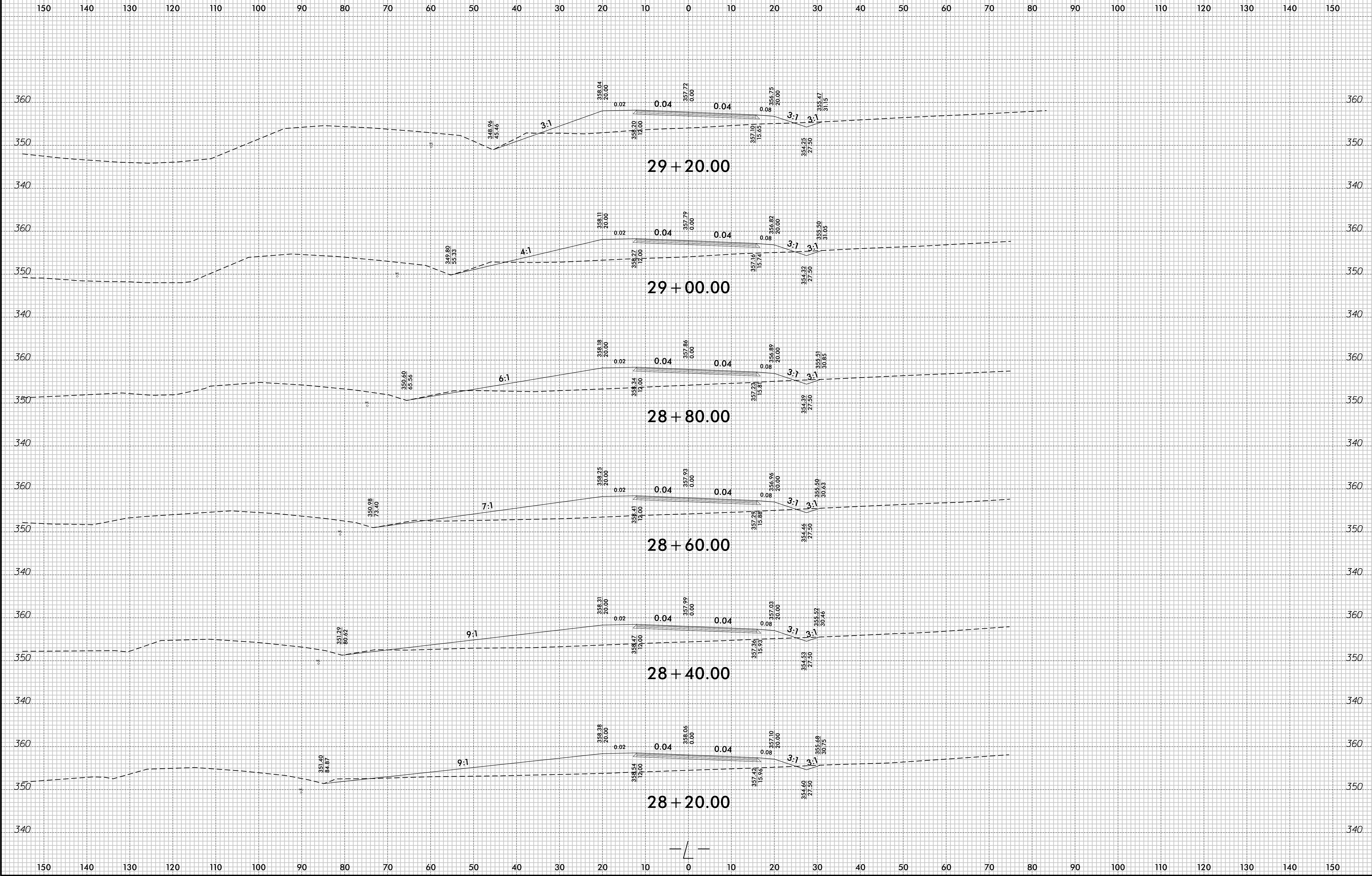




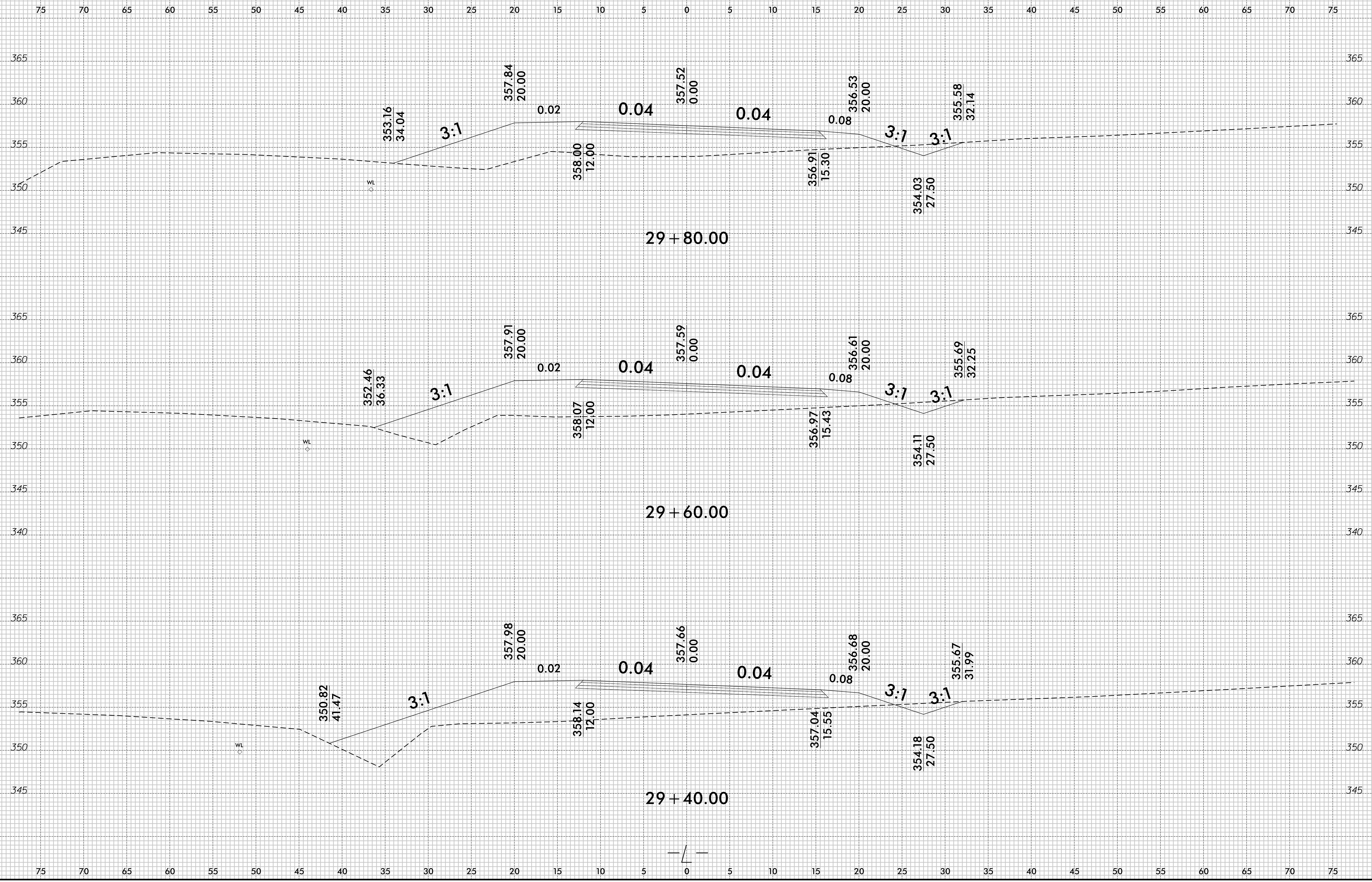
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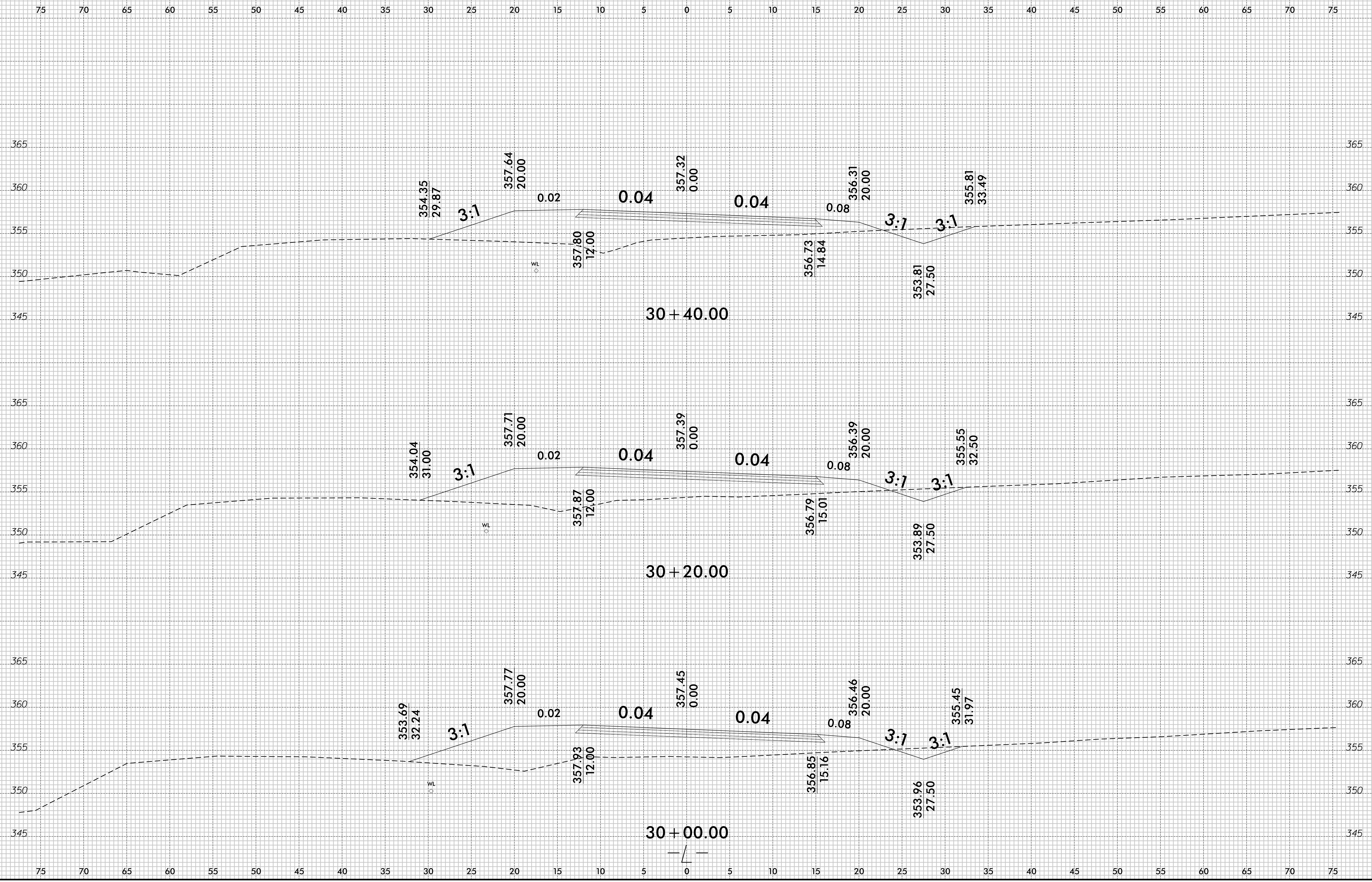
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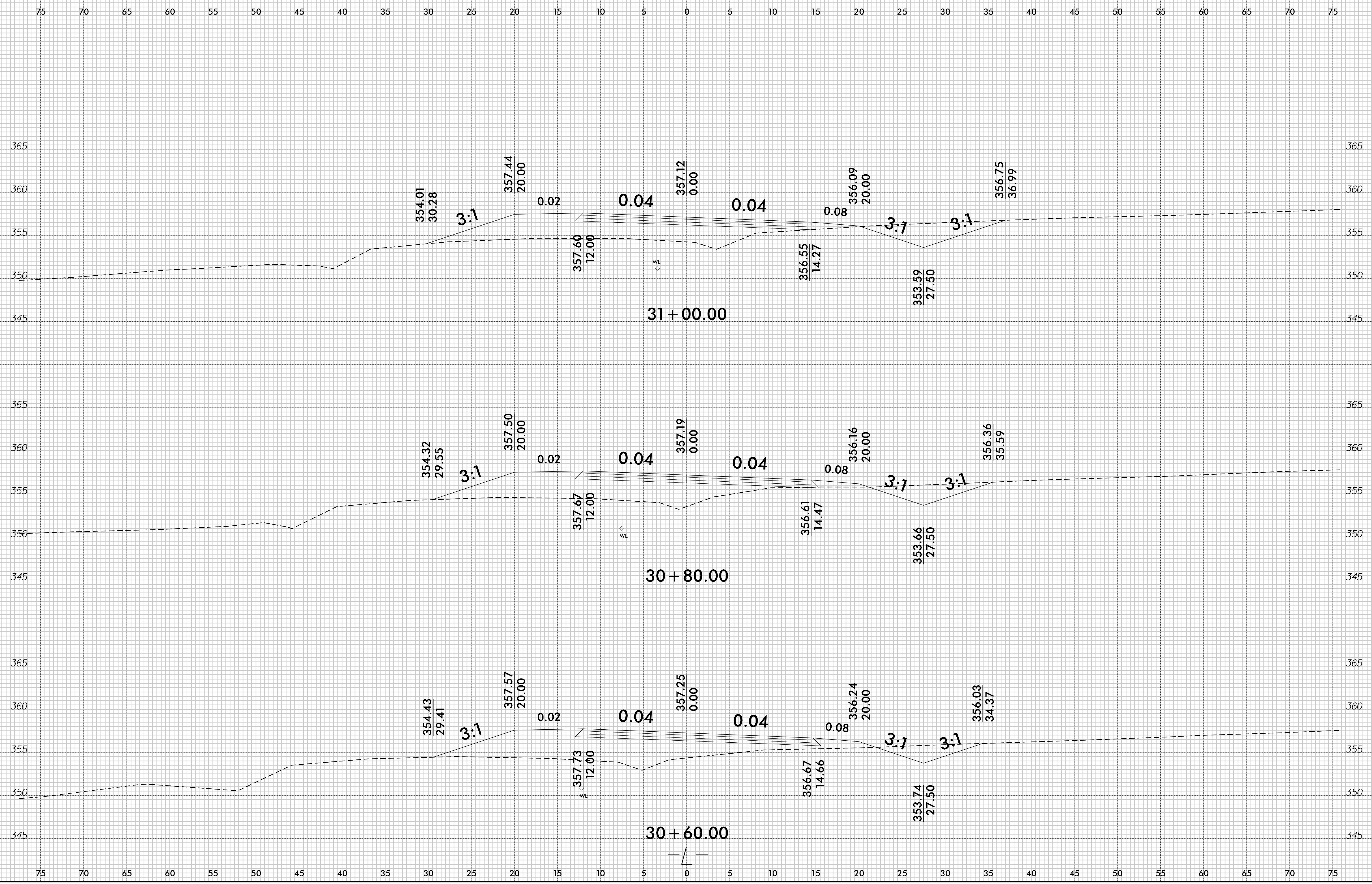
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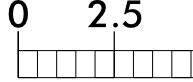


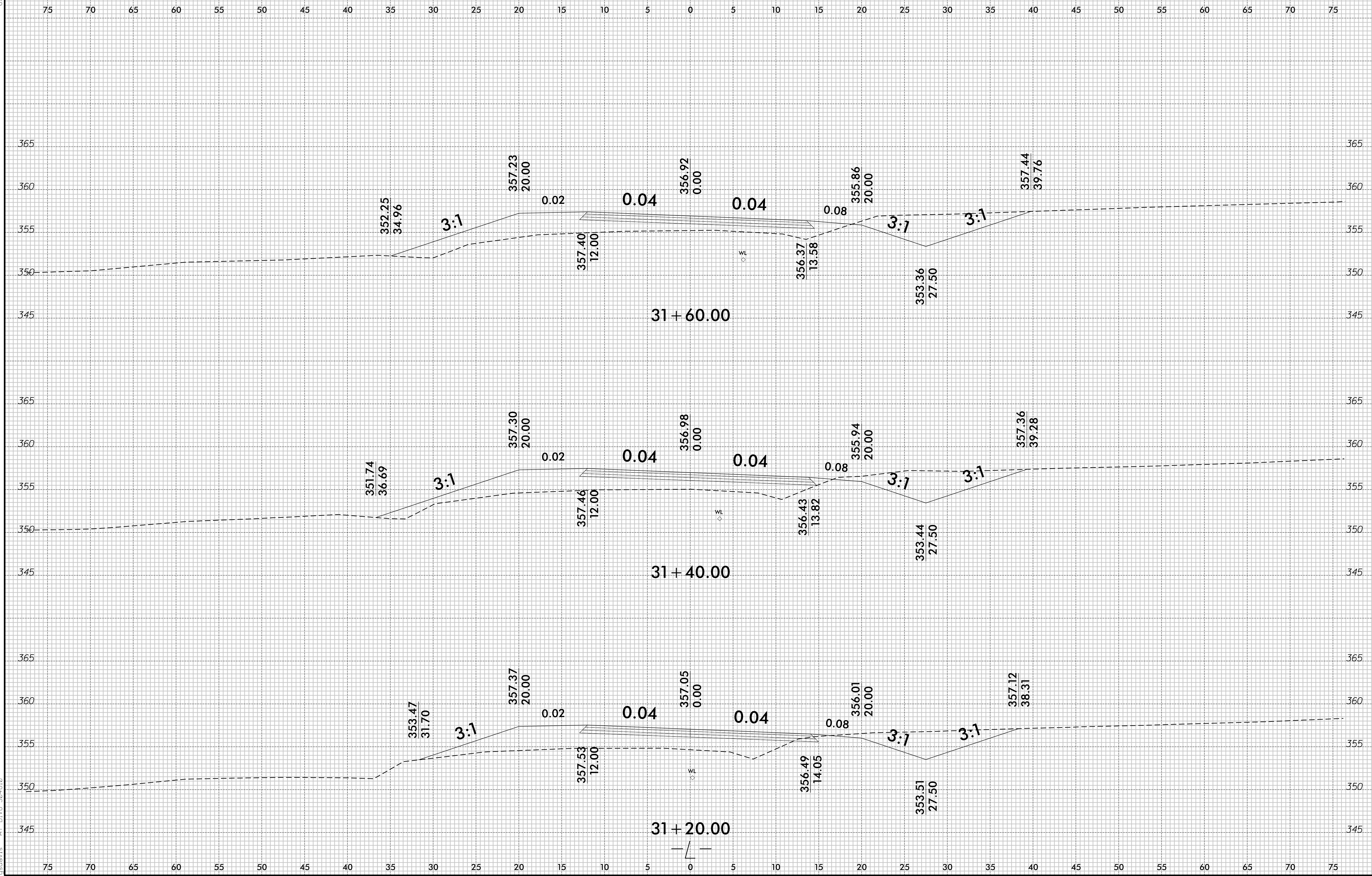
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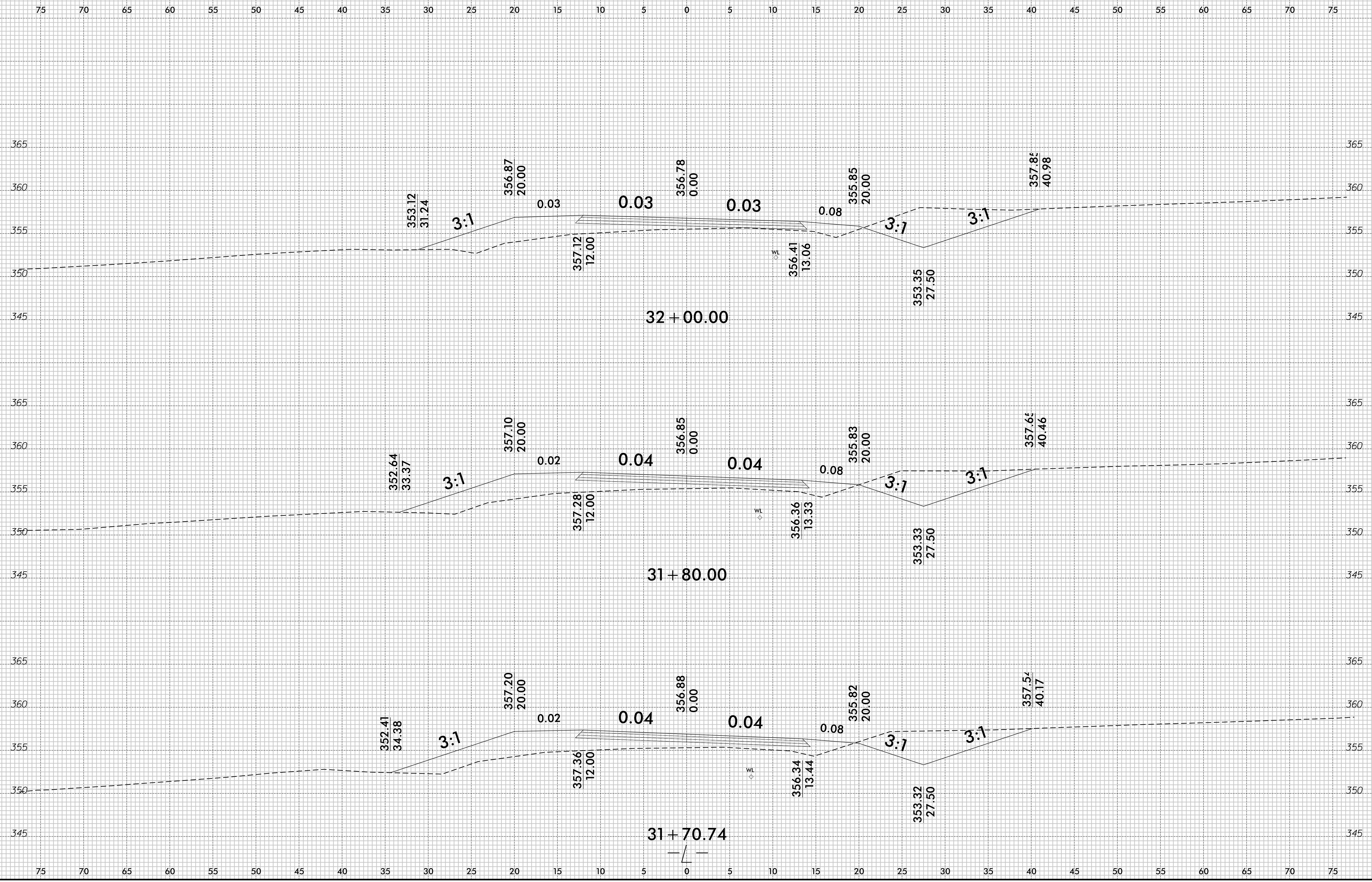
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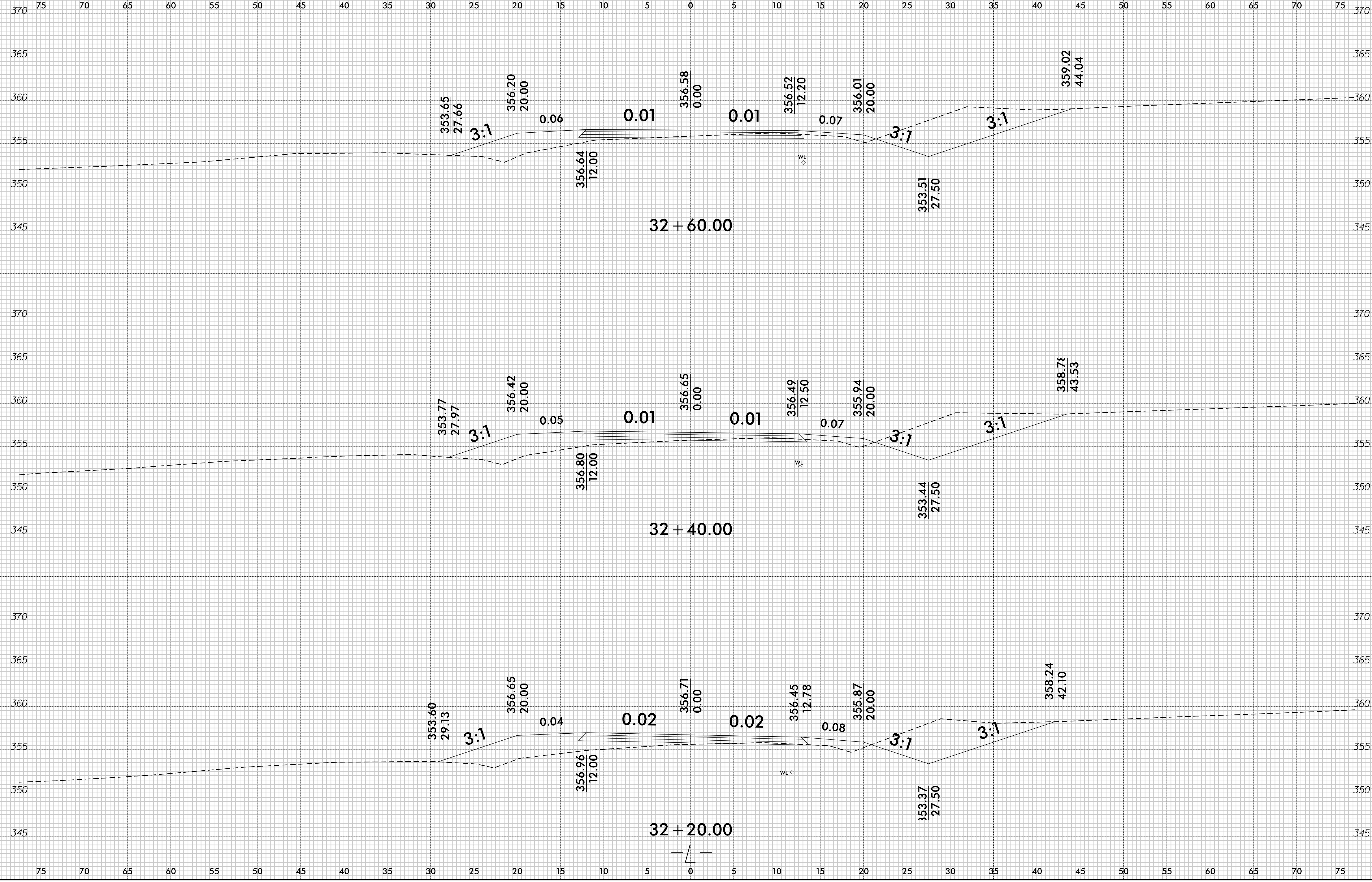


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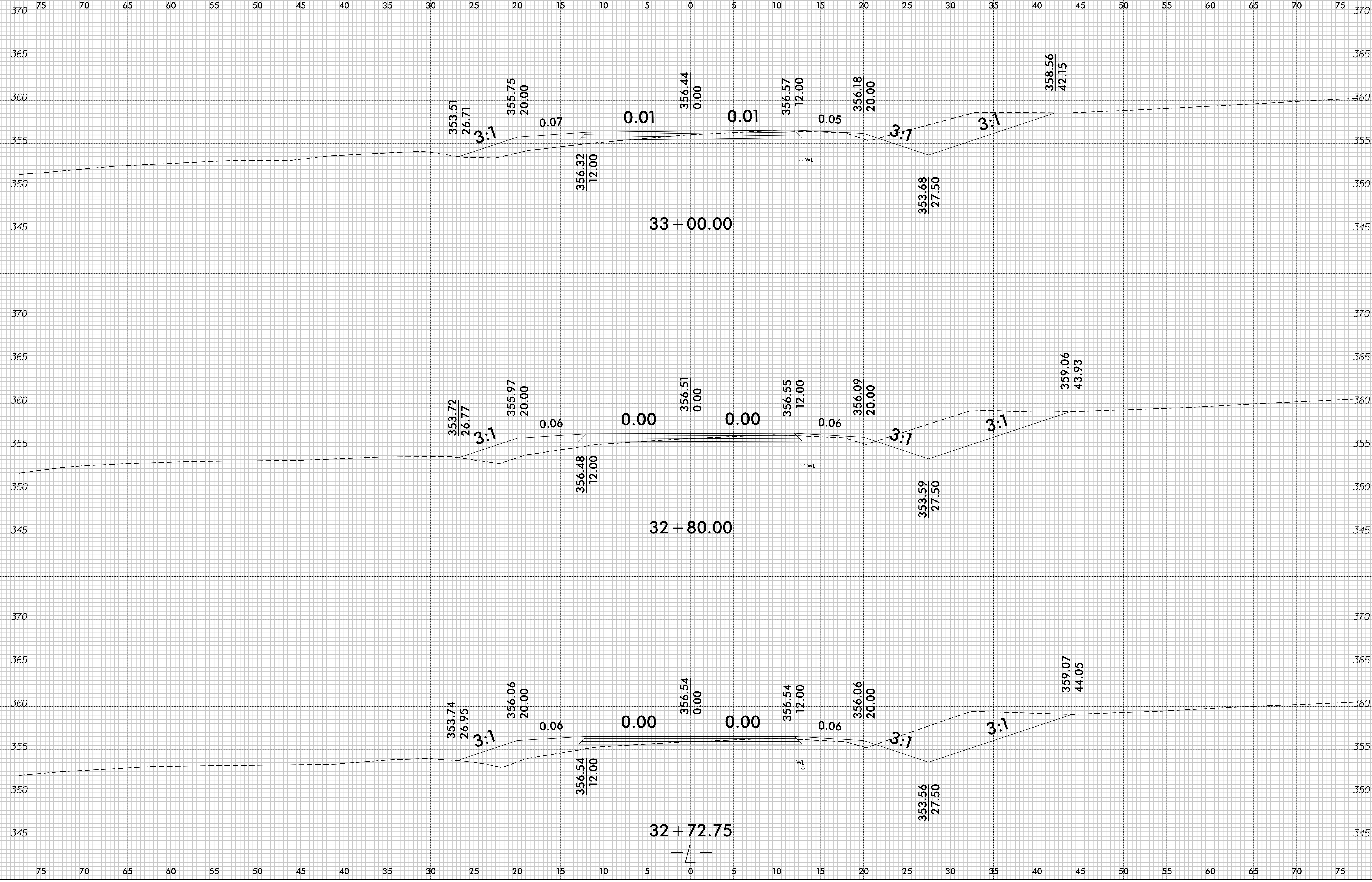


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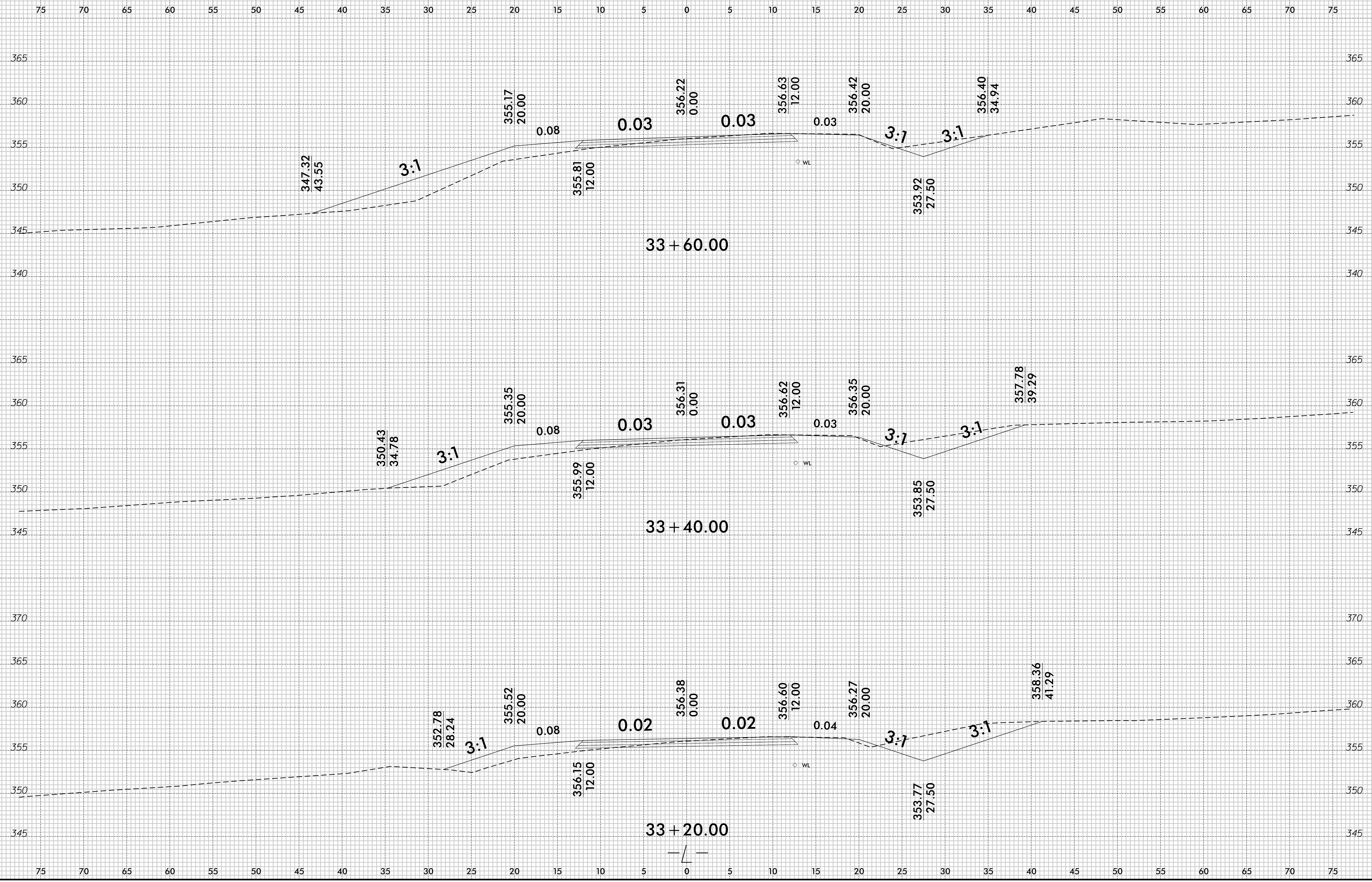




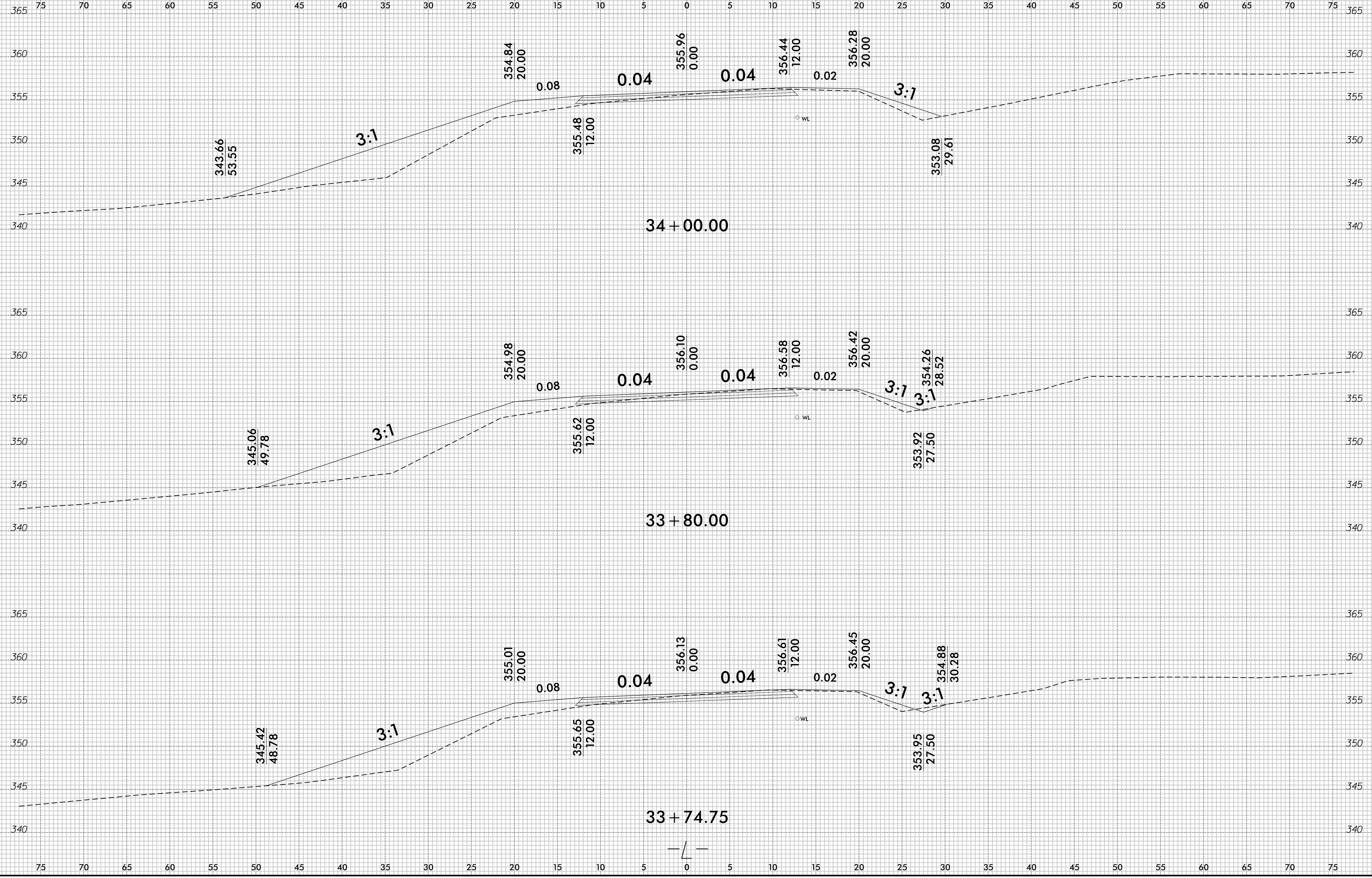
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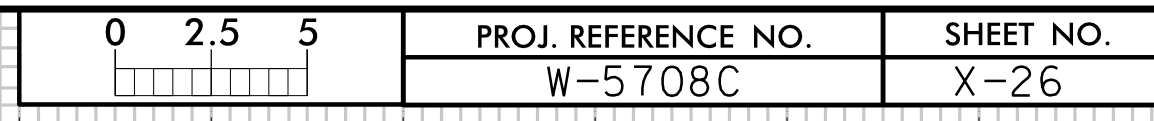
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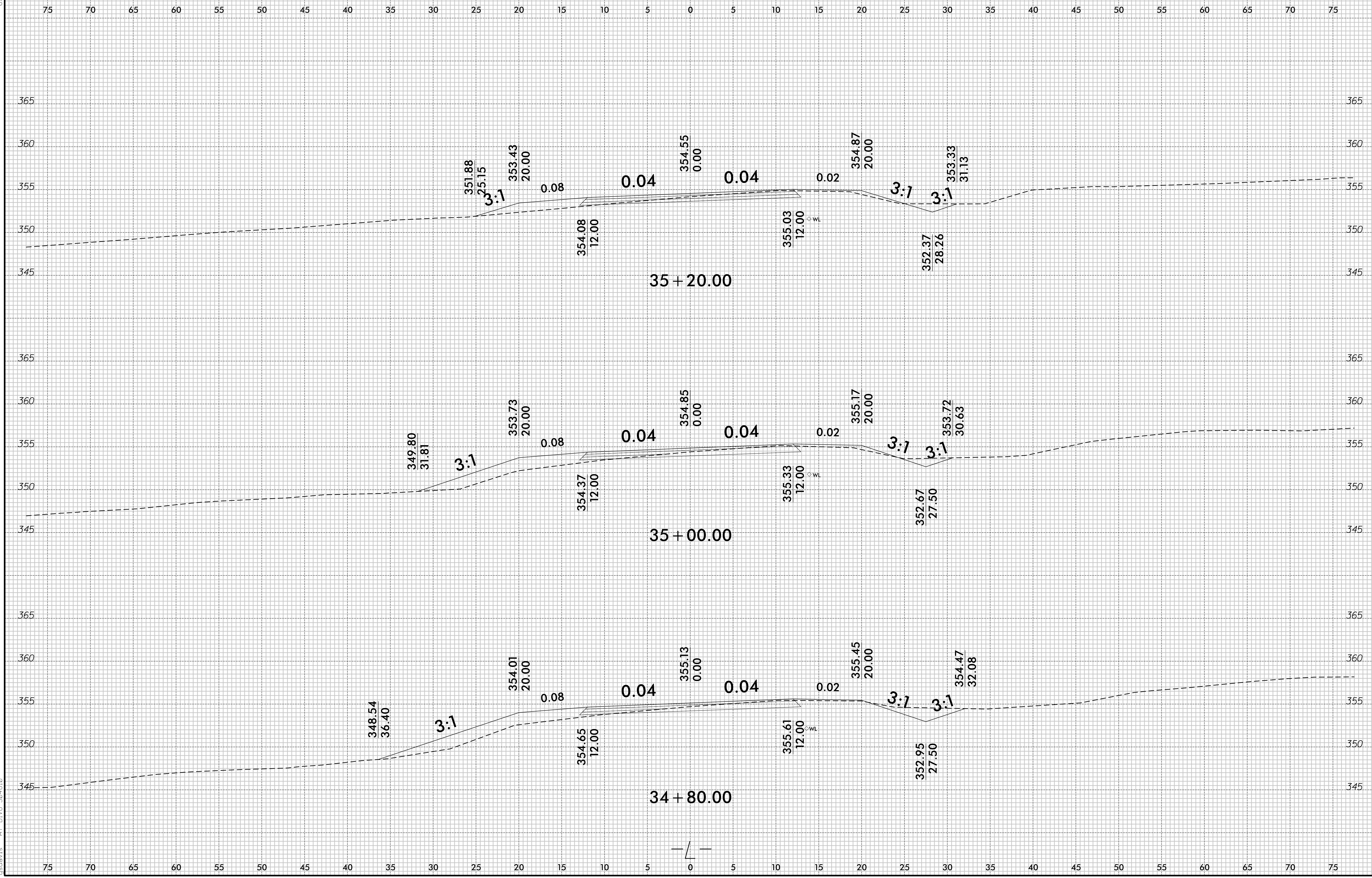




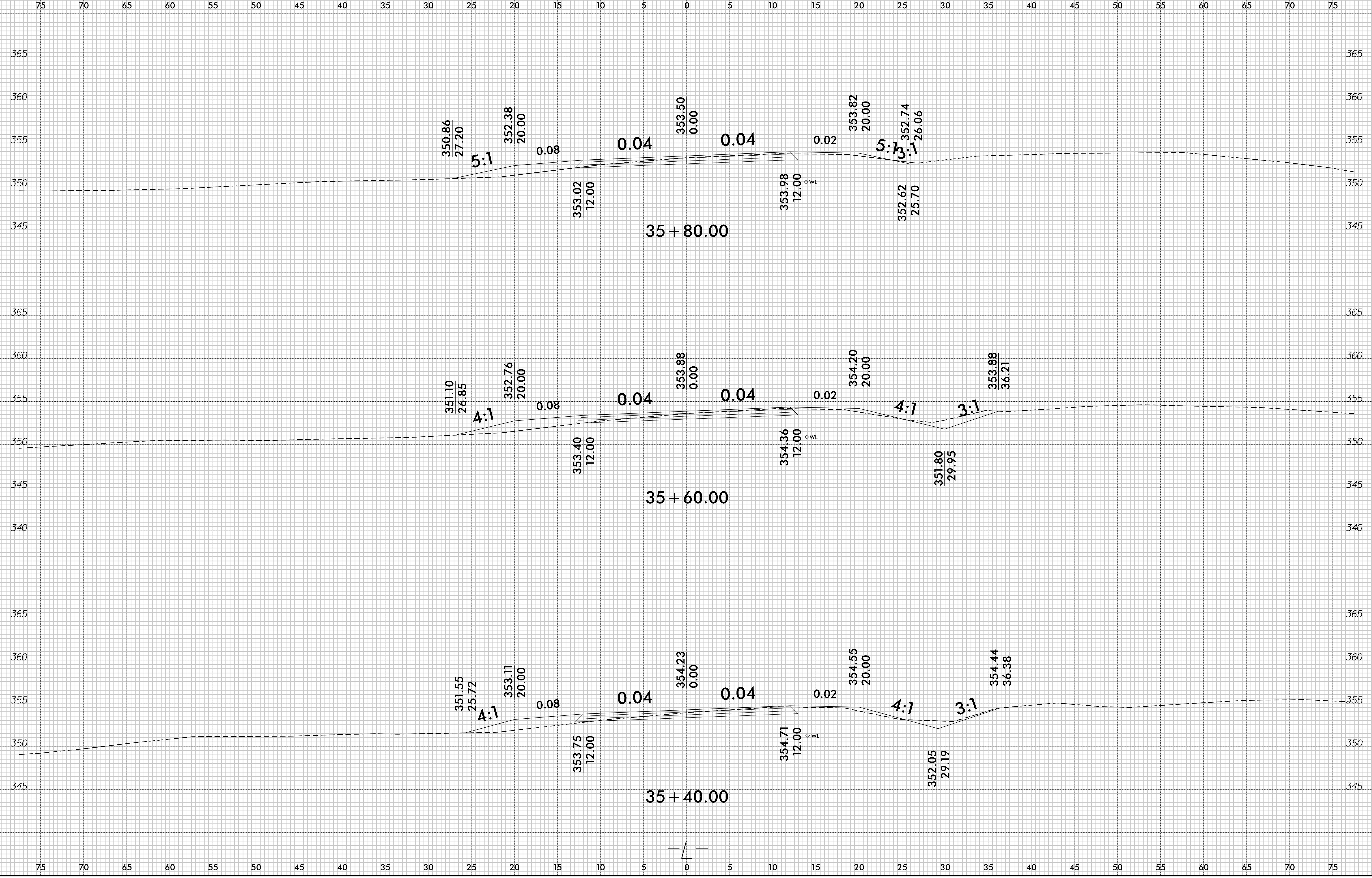
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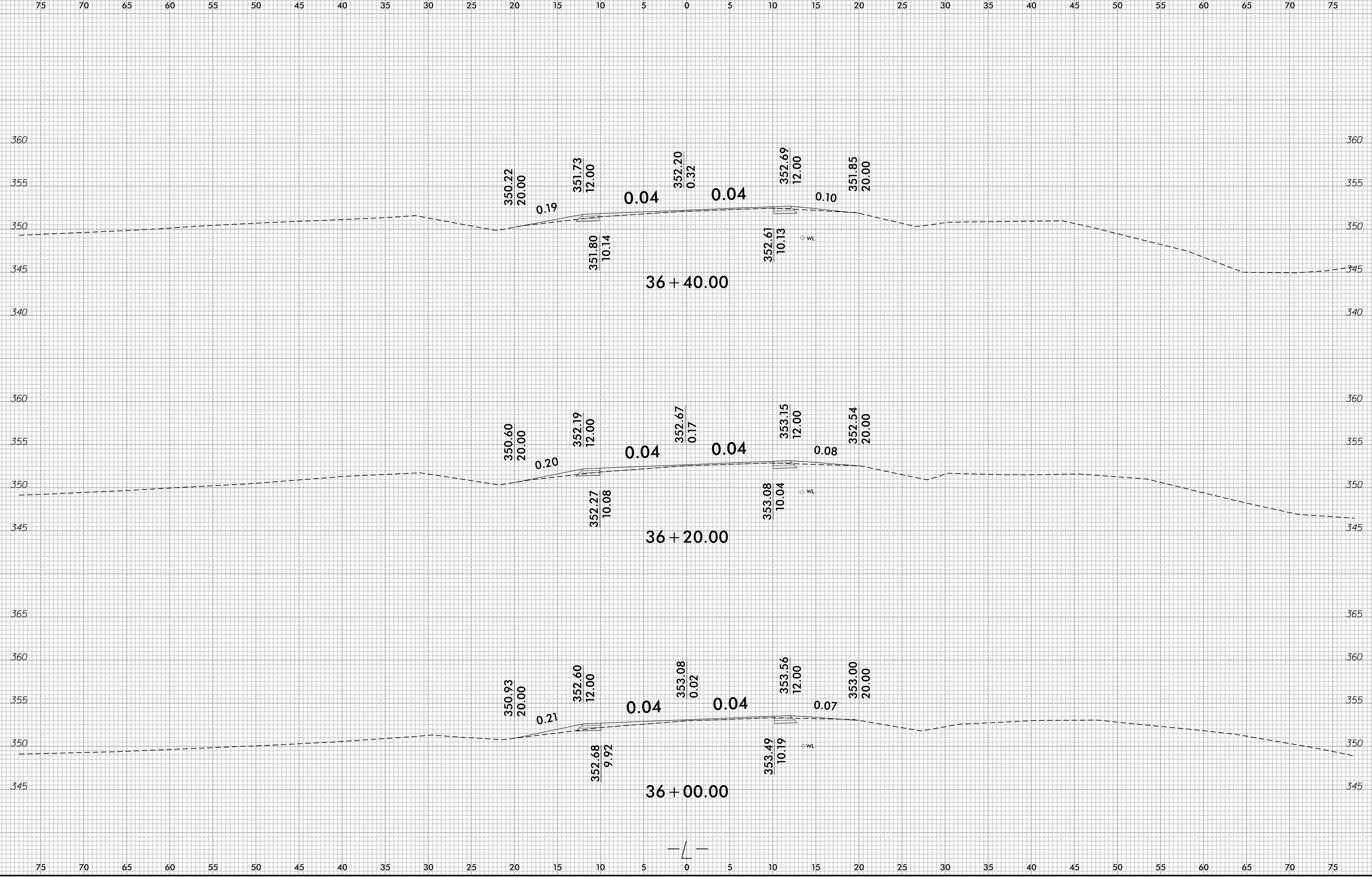
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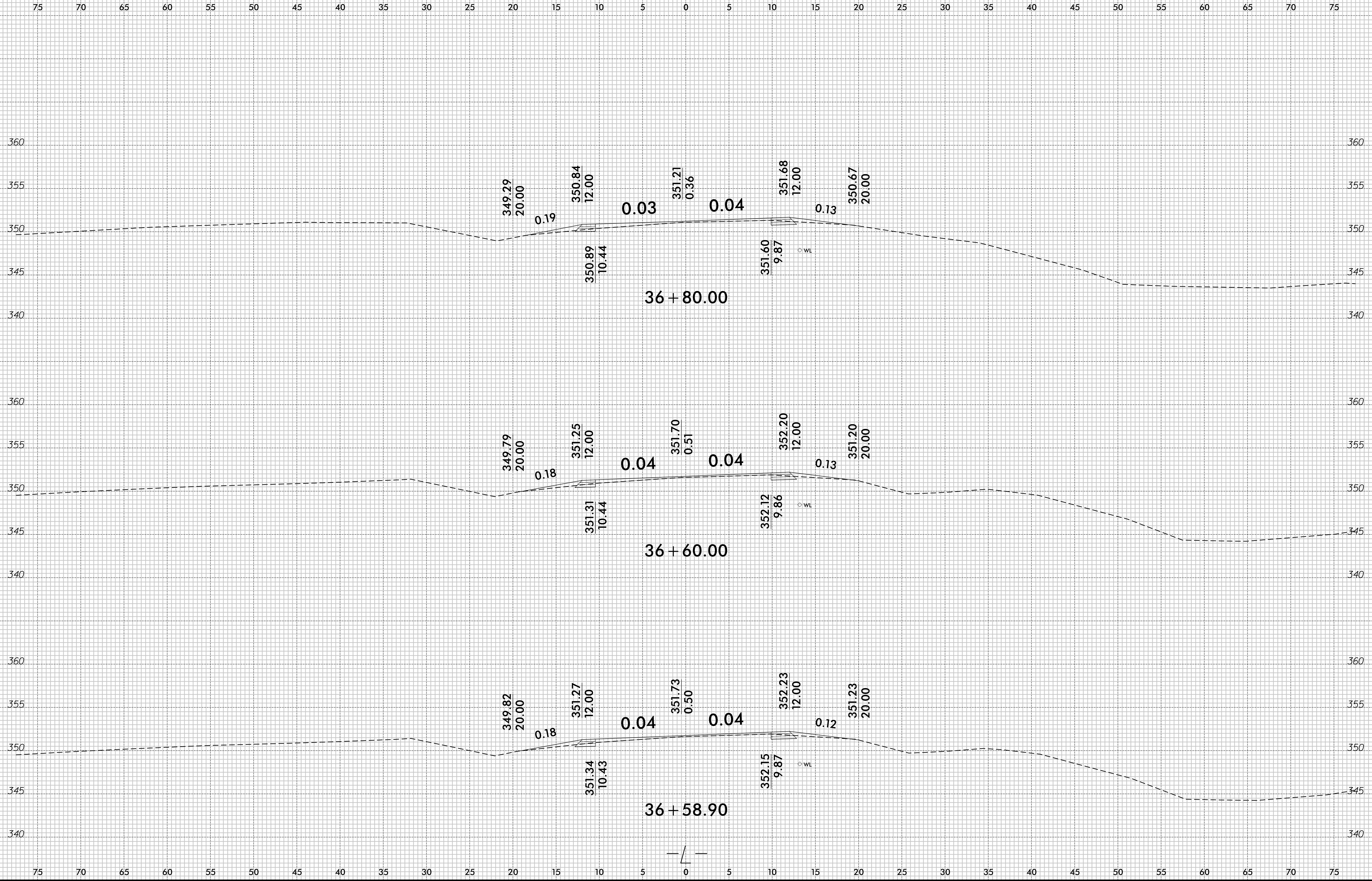


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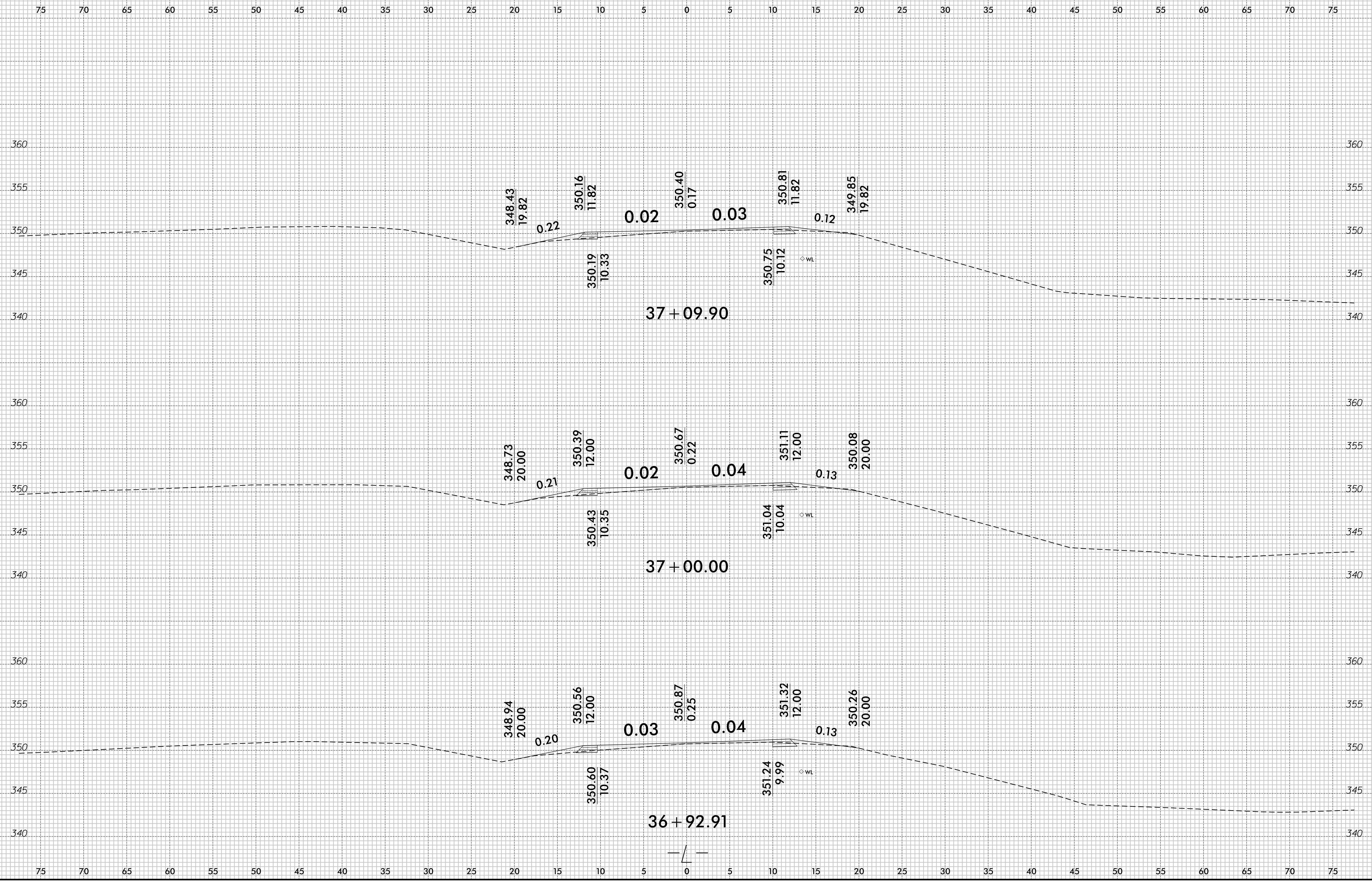
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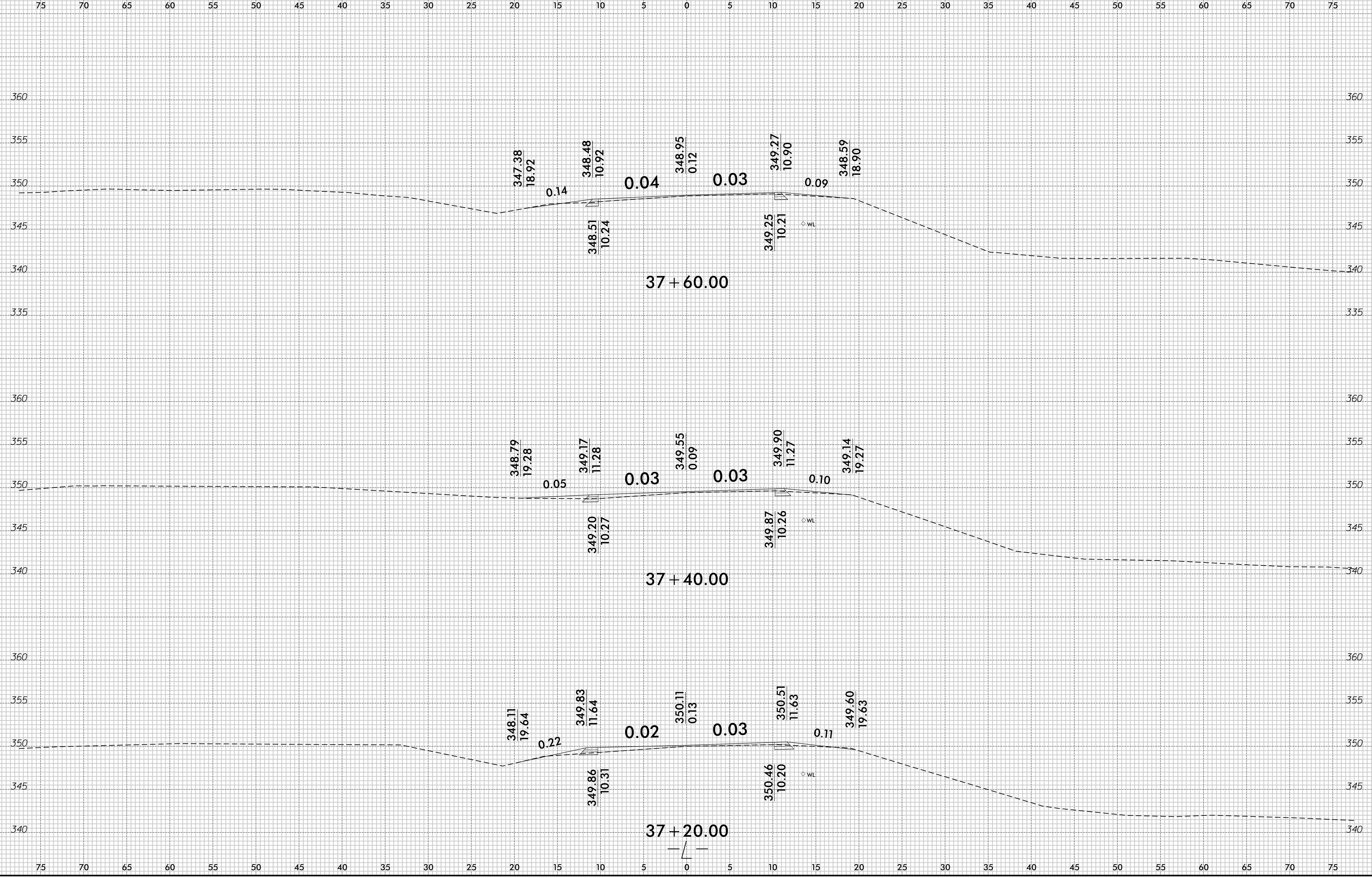




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