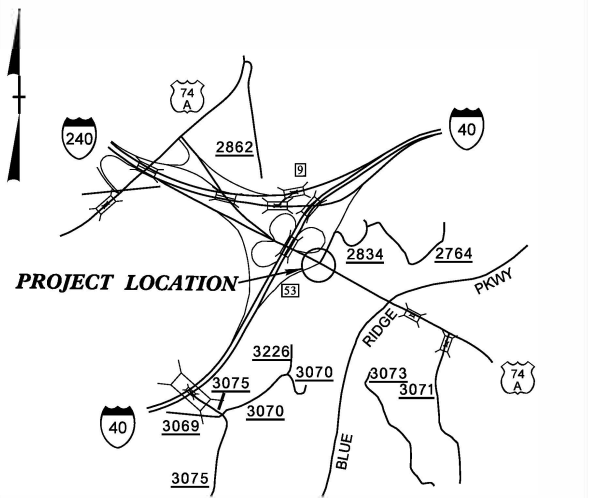


See Sheet 1A For Index of Sheets



VICINITY MAP N.T.S

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BUNCOMBE COUNTY

LOCATION: I-40 EB EXIT 53A OFF RAMP AND US 74A

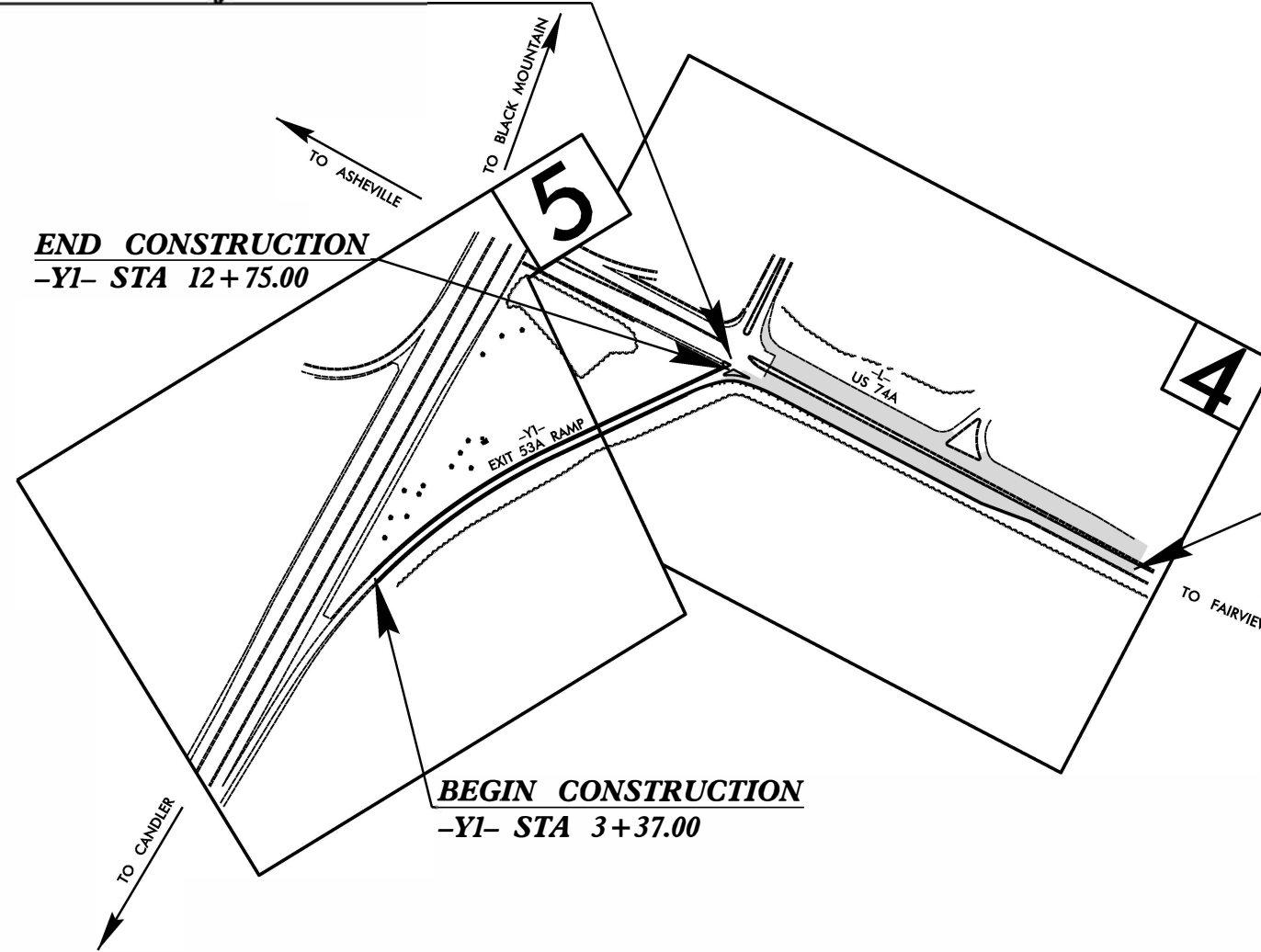
TYPE OF WORK: GRADING, DRAINAGE, AND PAVING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	48914	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
48914		PE	
48914		ROW	
48914		CONST	



BEGIN TIP PROJECT -L- STA 11+25.00

END CONSTRUCTION
-YI- STA 12+75.00



BEGIN CONSTRUCTION
-YI- STA 3+37.00

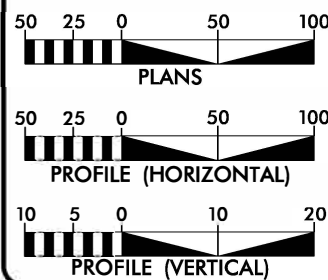
END TIP PROJECT -L- STA 21+55.00

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

TIP PROJECT: 48914

CONTRACT: DM00395

GRAPHIC SCALES



PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT 48914 = 0.14 MILES

Prepared in the Office of:
NCDOT DIVISION 13
55 Orange Street Asheville NC, 28801

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: WILLIAM CHASE CARVER, P.E.
PROJECT ENGINEER

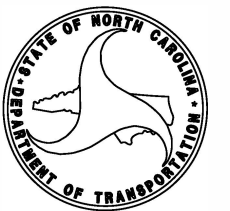
LETTING DATE: HAMPTON FLETCHER
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



ROADWAY DESIGN
ENGINEER

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

SHEET NUMBER	INDEX OF SHEETS SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1 THRU 2A-2	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
3B-1	ROADWAY SUMMARIES
3D-1	DRAINAGE SUMMARIES
4 THRU 6	PLAN AND PROFILE SHEET
RW-01 THRU RW-02	SURVEY CONTROL SHEETS
TMP-1 THRU TMP-10	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
EC-1 THRU EC-7	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-6	SIGNING PLANS
X-A THRU X-B	CROSS-SECTION SUMMARY SHEET
X-1 THRU X-23	CROSS-SECTIONS

2018 ROADWAY ENGLISH STANDARD DRAWINGS
EFF. 01-16-2018
REV.

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
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
225.01	Guide for Grading Subgrade - Interstate and Freeway
225.03	Deceleration and Acceleration Lanes
225.05	Method of Obtaining Superelevation - Divided Highways
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 7 - CONCRETE PAVEMENTS AND SHOULDERS	
700.01	Concrete Pavement Joints - Construction and Contraction Joints
DIVISION 8 - INCIDENTALS	
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.22	Frames and Wide Slot Sag Grates
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.32	Brick Junction Box - 12" thru 66" Pipe
846.01	Concrete Curb, Gutter and Curb & Gutter
852.01	Concrete Islands
862.01	Guardrail Placement
862.02	Guardrail Installation
876.02	Guide for Rip Rap at Pipe Outlets

GENERAL NOTES: 2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018
REVISED:

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 A PROPER TIE-IN.

CLEARING:
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 11.

SUPERELEVATION:
ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.05 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:
ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.02

SIDE ROADS:
THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

TEMPORARY SHORING:
SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

SUBSURFACE PLANS:
NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

UTILITIES:
UTILITY OWNERS ON THIS PROJECT ARE
ATT
MSD
City of Asheville
ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS 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	123
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	MLB
Proposed Wetland Boundary	MLB
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	EPB
Existing Historic Property Boundary	HPB
Known Contamination Area: Soil	☠-s-☠
Potential Contamination Area: Soil	☠-s-☠
Known Contamination Area: Water	☠-w-☠
Potential Contamination Area: Water	☠-w-☠
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	JS
Buffer Zone 1	BZ 1
Buffer Zone 2	BZ 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	-----

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	◆
Exist Permanent Easement 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 RW Marker	-----
New Control of Access Line with Concrete CA 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	☼

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

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	A/G Water

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	A/G Gas

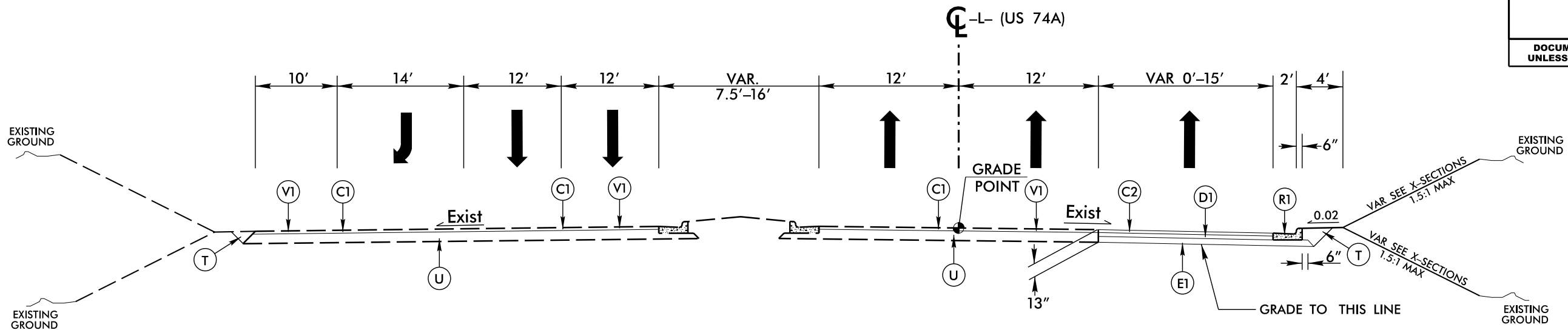
SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	SS
Above Ground Sanitary Sewer	A/G 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:

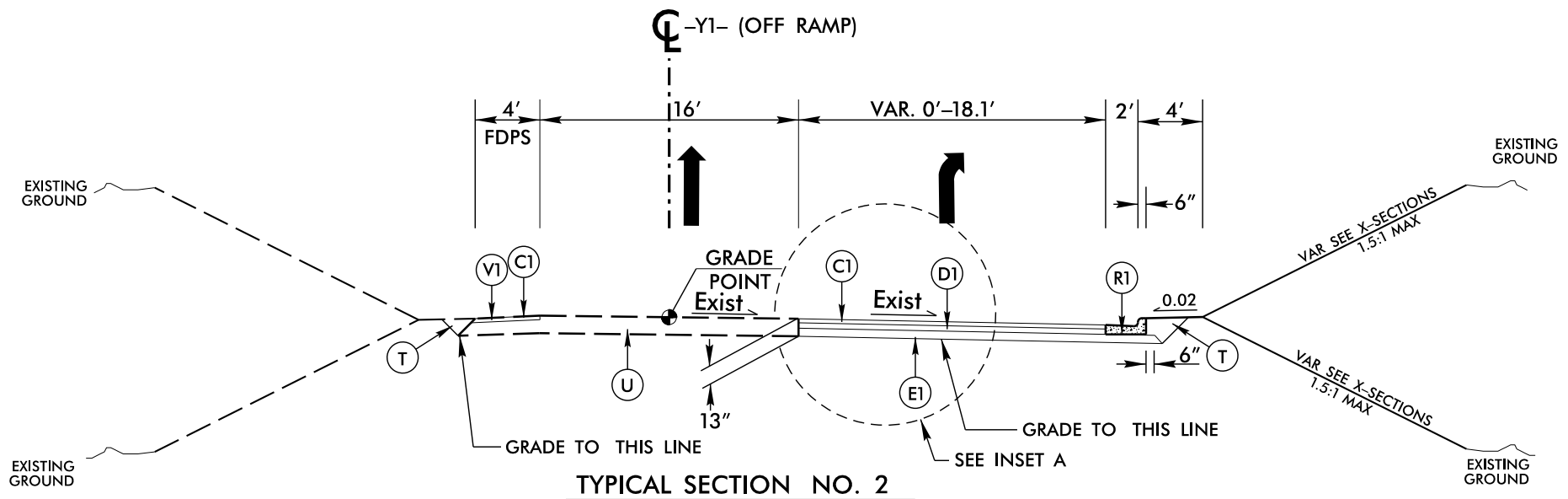
Utility Pole	●
Utility Pole with Base	⊠
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line LOS B (S.U.E.*)	-----
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	UST
A/G Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)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

PROJECT REFERENCE NO. SM-5713G	SHEET NO. 2A-1
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



TYPICAL SECTION NO. 1

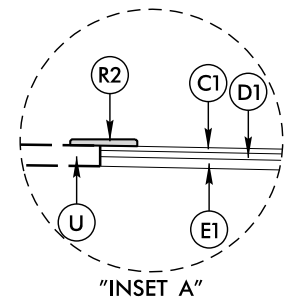
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-L- STA. 12+09.80 TO 21+55.00



TYPICAL SECTION NO. 2

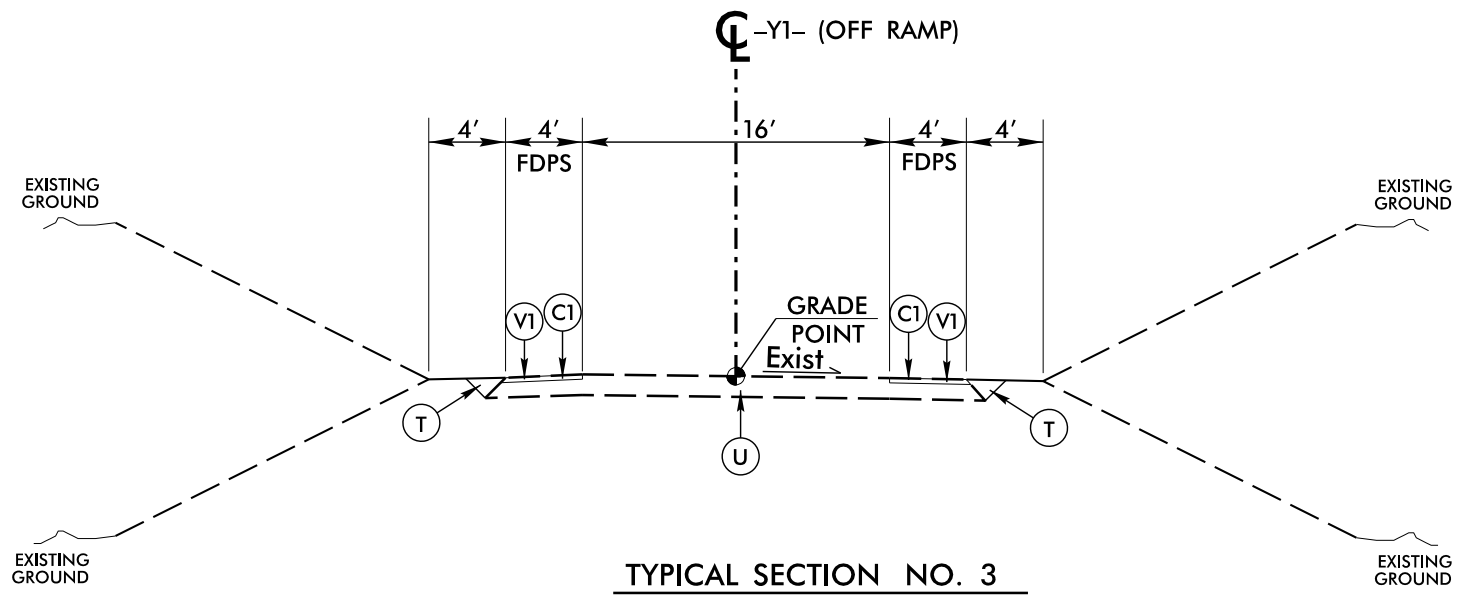
USE TYPICAL SECTION NO. 2
-Y1- STA. 11+64.47 TO 12+88.11

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 336 LBS. PER SQ. YARD
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 6" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
R1	2'-6" CURB AND GUTTER
R2	5" MONLITHIC CONCRETE ISLAND, SURFACE MOUNTED
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	MILLING ASPHALT PAVEMENT, 1-1/2" DEPTH



08-MAY-2023 08:25 S:\DDC\Projects\Buncombe\SM5713G-Roadway\Proj\SM5713G-Rdy+typ-DDC.dgn \$\$\$\$

PROJECT REFERENCE NO. SM-5713G	SHEET NO. 2A-2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



USE TYPICAL SECTION NO. 3
-Y1- STA. 3+37.00 TO 11+64.47

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 336 LBS. PER SQ. YARD
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 6" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
R1	2'-6" CURB AND GUTTER
R2	5" MONLITHIC CONCRETE ISLAND, SURFACE MOUNTED
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	MILLING ASPHALT PAVEMENT, 1-1/2" DEPTH

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

Station	Station	Uncl. Excav.	Embank. +15%	Borrow	Waste
-L- 11+25	-L- 21+55	1226	128		1098
-Y1- 10+50	-Y1- 12+00	19	67	48	
SUBTOTALS:					
		1245	195	48	1098
PROJECT TOTALS:					
		1245	195	48	1098
PROJECT TOTALS:					
		1245	195	48	1098
GRAND TOTALS:					
		1245	195	48	1098
SAY:					
		1250		0	

CONTINGENCY ITEMS:
 INCIDENTAL STONE = 25 TONS
 SHALLOW UNDERCUT = 50 CY
 SELECT GRANULAR MATERIAL = 25 TONS
 GEOTEXTILE FOR SOIL STABILIZATION = 100 CY
 CLASS IV SUBGRADE STABILIZATION = 50 TONS

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate Type ASU/AST	Aggregate Thickness INCHES	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Soil Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
CONTINGENCY			ASU	12	100	100	200		
TOTAL CY/TONS/SY:					100	100	200*	0	0

ASU = Aggregate Subgrade, AST = Aggregate Stabilization

*Total square yards of Geotextile for Soil Stabilization is only the estimated quantity for ASU/AST and may only represent a portion of the geotextile quantity shown in the Item Sheets of the Proposal.

CLEARING AND GRUBBING
 SUMMARY

LINE	Station	Station	Side	Acres
-L-	11+50	19+25	RT	0.5

DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA
 GUARDRAIL SUMMARY

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL
 TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
 FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL
 W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL

G = GATING IMPACT ATTENUATOR TYPE 350
 NG = NON-GATING IMPACT ATTENUATOR IA-MASH TL-2

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS										IMPACT ATTENUATOR	SINGLE FACED CONCRETE BARRIER	REMOVE EXISTING GUARDRAIL	REMOVE & STOCKPILE EXISTING GUARDRAIL	REMARKS					
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	Type III	B-77	GREU, TL-3	GREU, TL-2	CAT-1	AT-1	Type III SC	B-77 SC	G	NG												
L	Y1 11+64.47	L 14+00.00	RT	358.36							50	7.5			1																			
SUBTOTAL				358.36																														
LESS ANCHOR DEDUCTION																																		
				50																														
				7.5																														
TOTAL				300.86																														
SAY				300																														

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS SUB-REGIONAL & REGIONAL

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

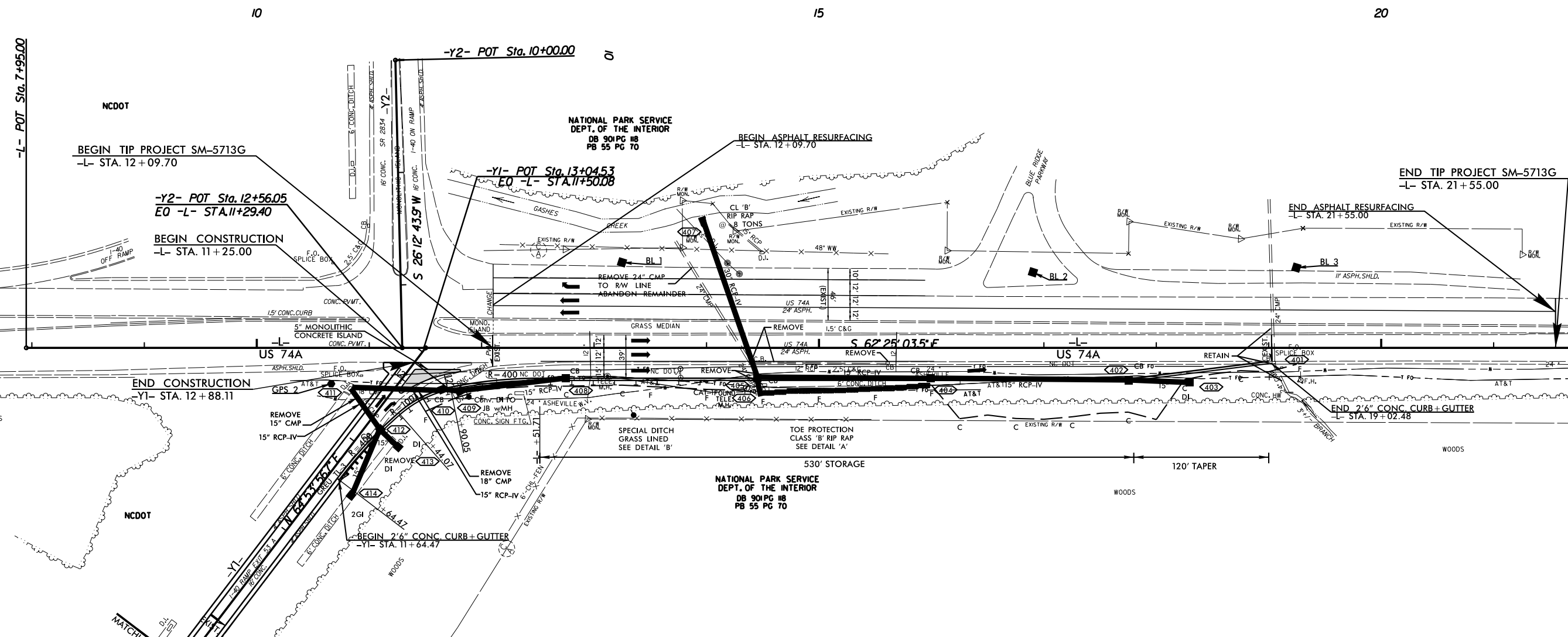
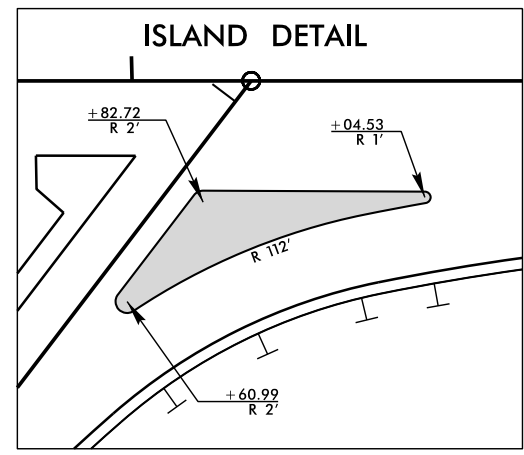
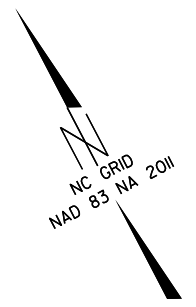
Main table with columns: STATION, LOCATION (L.R.T. OR C.I.), STRUCTURE NO., TOP ELEVATION, INVERT ELEVATION, SLOPE CRITICAL, DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC), C.S. PIPE, R.C. PIPE (CLASS III), R.C. PIPE (CLASS IV), ENDWALLS, QUANTITIES FOR CONCRETE STRUCTURES, FRAME, GRATES AND HOOD STANDARD 840.03, CONCRETE TRANSITIONAL SECTION, and REMARKS. Includes sub-columns for pipe diameters (12" to 48") and various material codes.

- ABBREVIATIONS: C.B. CATCH BASIN, N.D.I. NARROW DROP INLET, D.I. DROP INLET, G.D.I. GRATED DROP INLET, G.D.I. (N.S.) GRATED DROP INLET (NARROW SLOT), J.B. JUNCTION BOX, M.H. MANHOLE, T.B.D.I. TRAFFIC BEARING DROP INLET, T.B.J.B. TRAFFIC BEARING JUNCTION BOX

COMPUTED BY: DATE: CHECKED BY: DATE:

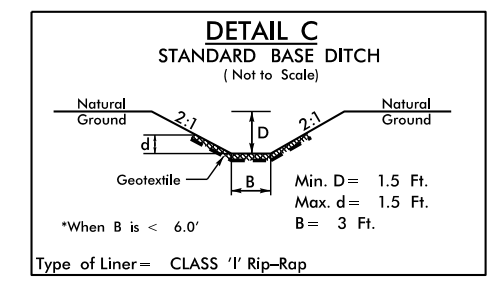
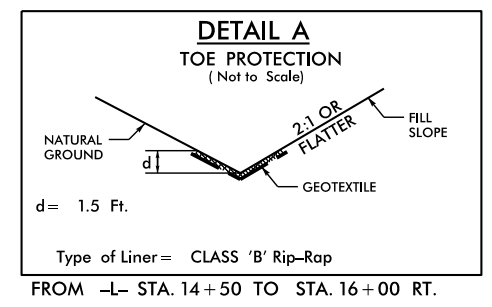
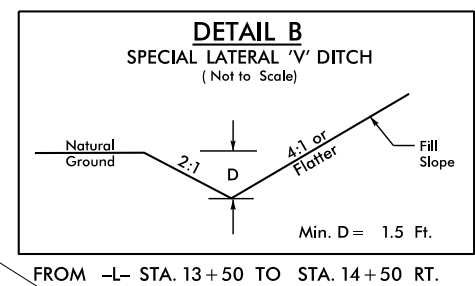
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PROJECT REFERENCE NO. SM-5713G	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



REVISIONS

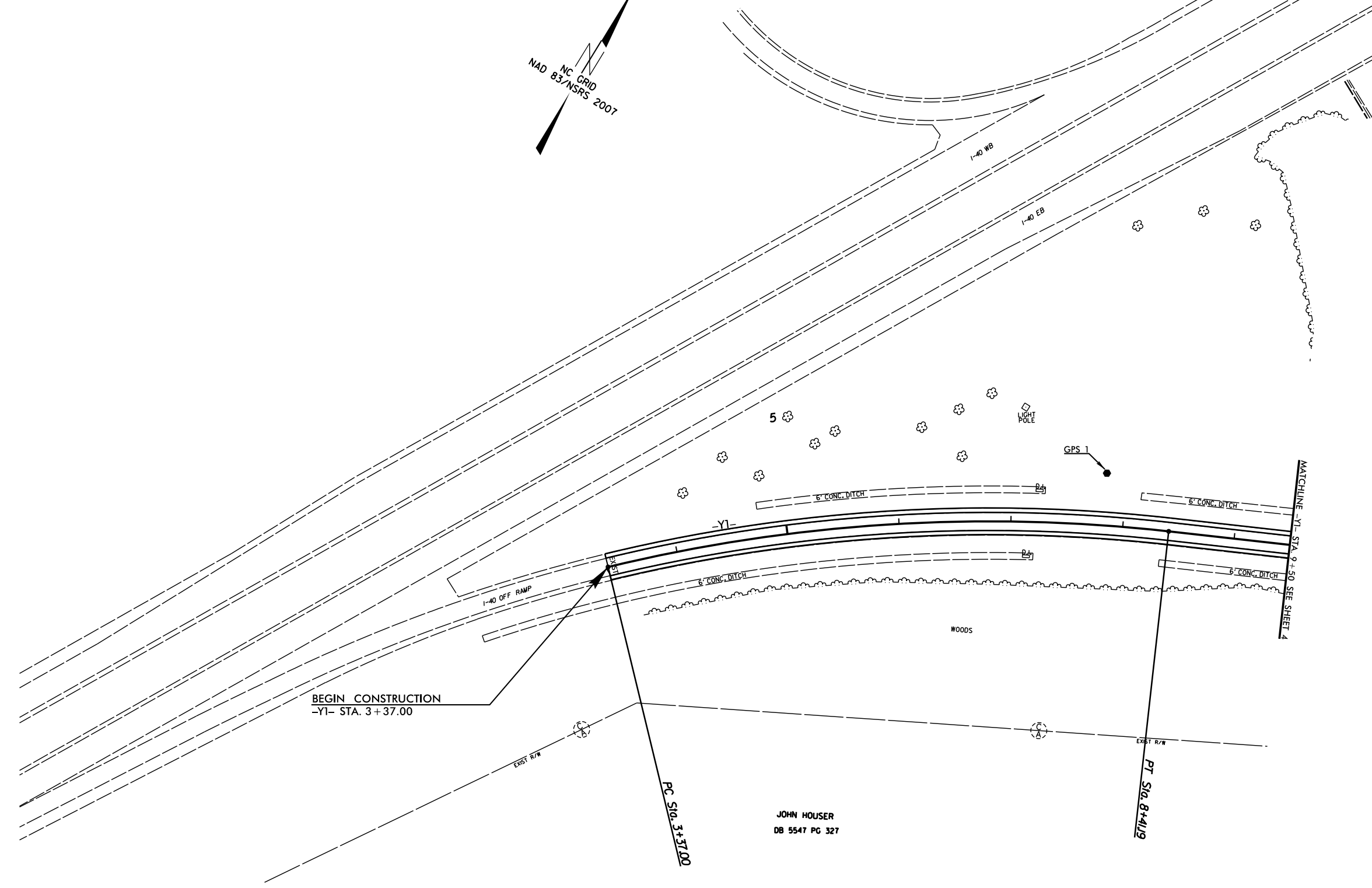
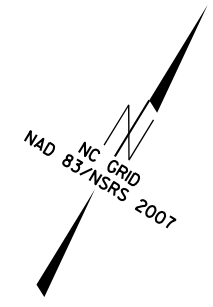
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FOR -L- AND -Y1- PROFILES, SEE SHEET 6

PROJECT REFERENCE NO.	SHEET NO.
SM-5713G	5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-Y1-
 PI Sta 5+91.68
 $\Delta = 19^{\circ} 59' 30.0''$ (RT)
 D = 3' 57" 54.4"
 L = 504.19'
 T = 254.68'
 R = 1,445.00'



BEGIN CONSTRUCTION
 -Y1- STA. 3+37.00

JOHN HOUSER
 DB 5547 PG 327

FOR -Y1- PROFILES, SEE SHEET 6

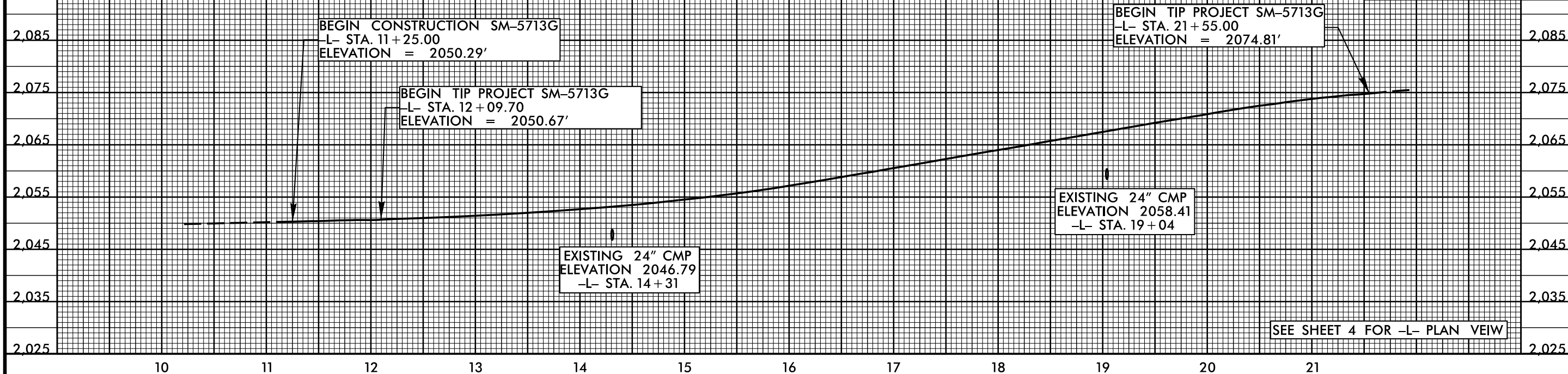
REVISIONS

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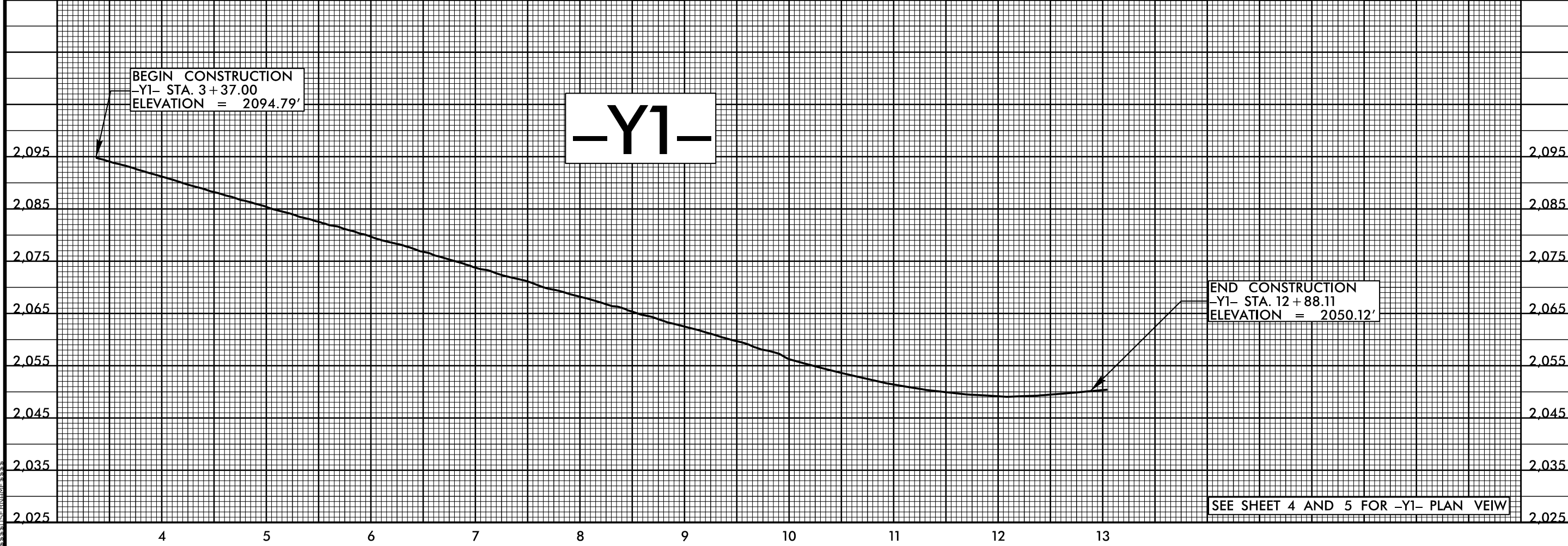
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PROJECT REFERENCE NO. SM-5713G	SHEET NO. 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



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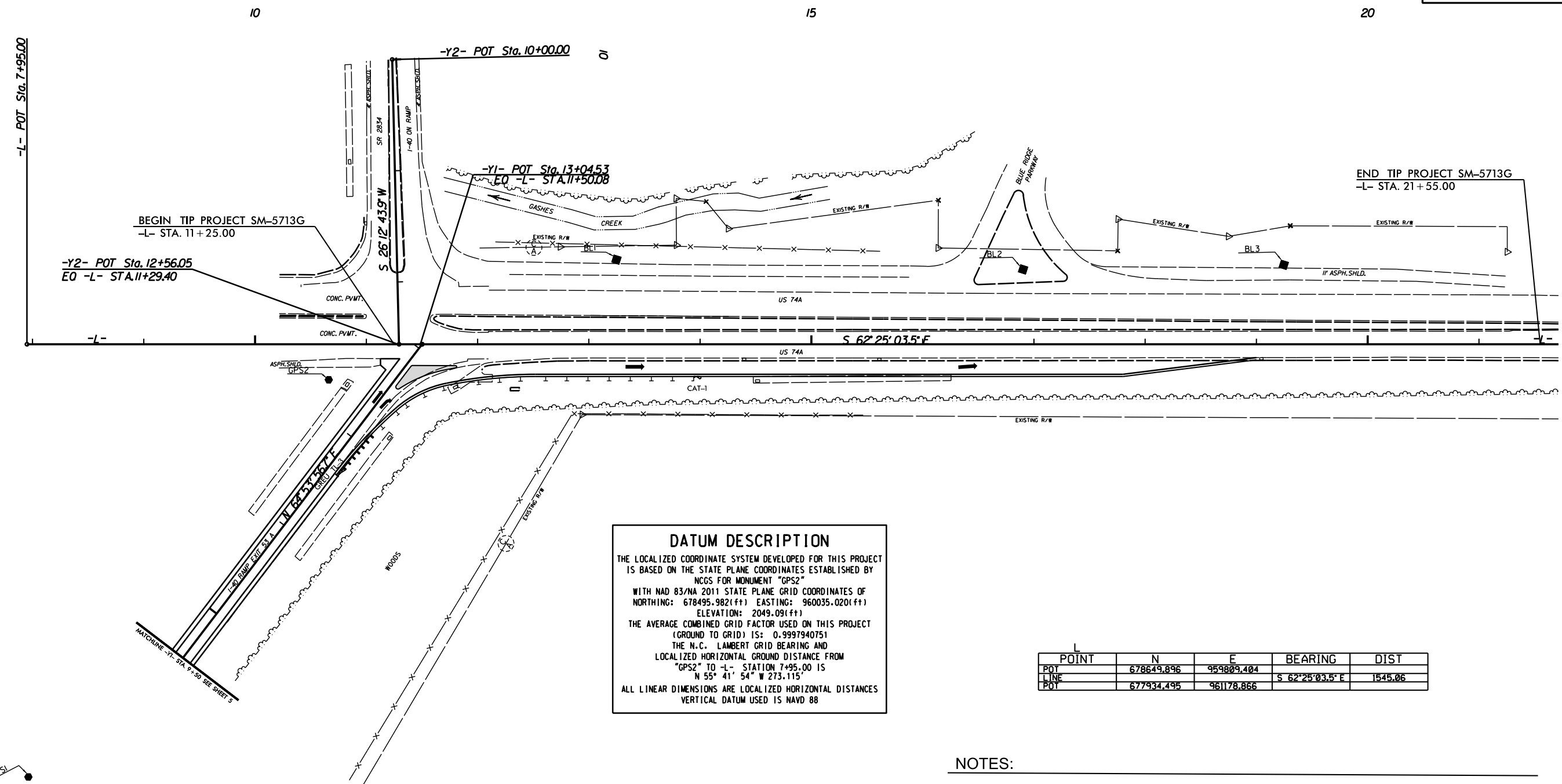


SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. SM-5713G	SHEET NO. RW01
Location and Surveys	
INSERT CONSULTANT'S NAME	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BL POINT	DESC.	NORTH	EAST	ELEVATION	BL STATION	OFFSET
GPS1	IRON PIN & CAP	678304.4710	959630.4040	2069.94	5+00.00	0.00
GPS2	IRON PIN & CAP	678495.9820	960035.0200	2049.13	9+47.65	0.00
BL1	IRON PIN & CAP	678471.9826	960314.1755	2050.83	12+27.84	0.00
BL2	IRON PIN & CAP	678294.9307	960634.0374	2060.78	15+93.43	0.00
BL3	IRON PIN & CAP	678190.1419	960843.6005	2067.04	18+27.73	0.00



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "GPS2" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 678495.982(fft) EASTING: 960035.020(fft) ELEVATION: 2049.091(fft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997940751

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS2" TO -L- STATION 7+95.00 IS N 55° 41' 54" W 273.115'

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

POINT	N	E	BEARING	DIST
POT	678649.896	959809.404	S 62°25'03.5" E	1545.06
LINE	677934.495	961178.866		

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DDC UNIT.

6/2/c

REVISIONS

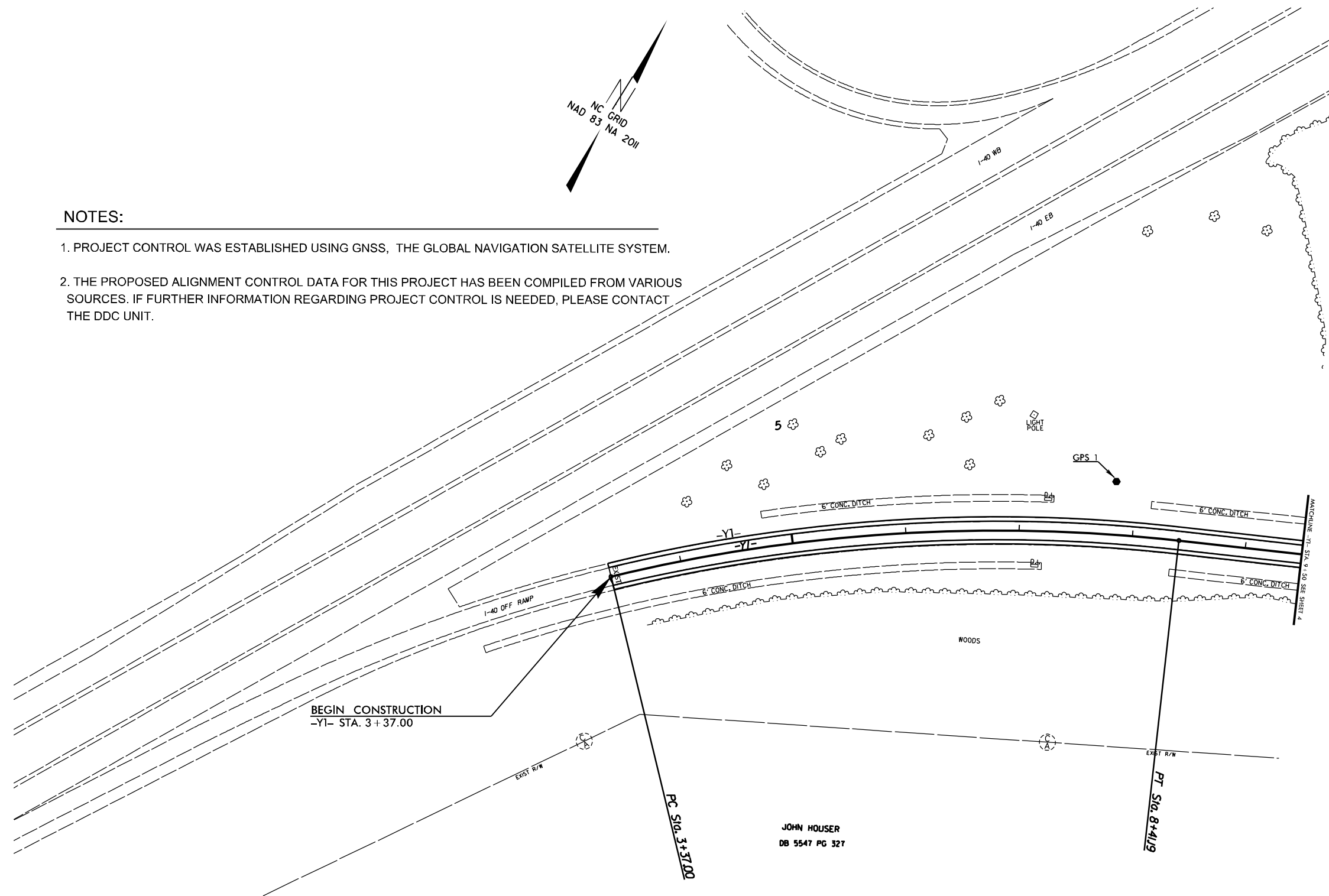
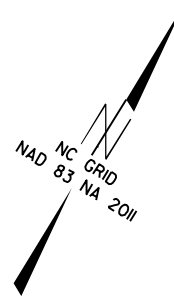
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PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
SM-5713G	RW02
Location and Surveys	
ENTER CONSULTANT'S NAME IN THIS BOX	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DDC UNIT.



Y1		POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC		678000.510	959294.114								
CURVE					N 54°54'11.7" E	501.64	19°59'30.0"(RT)	0°3'57"54.4"	504.19	254.68	1445.00
PT		678288.930	959704.543								
LINE					N 64°53'56.7" E	463.34					
POT		678485.486	960124.127								

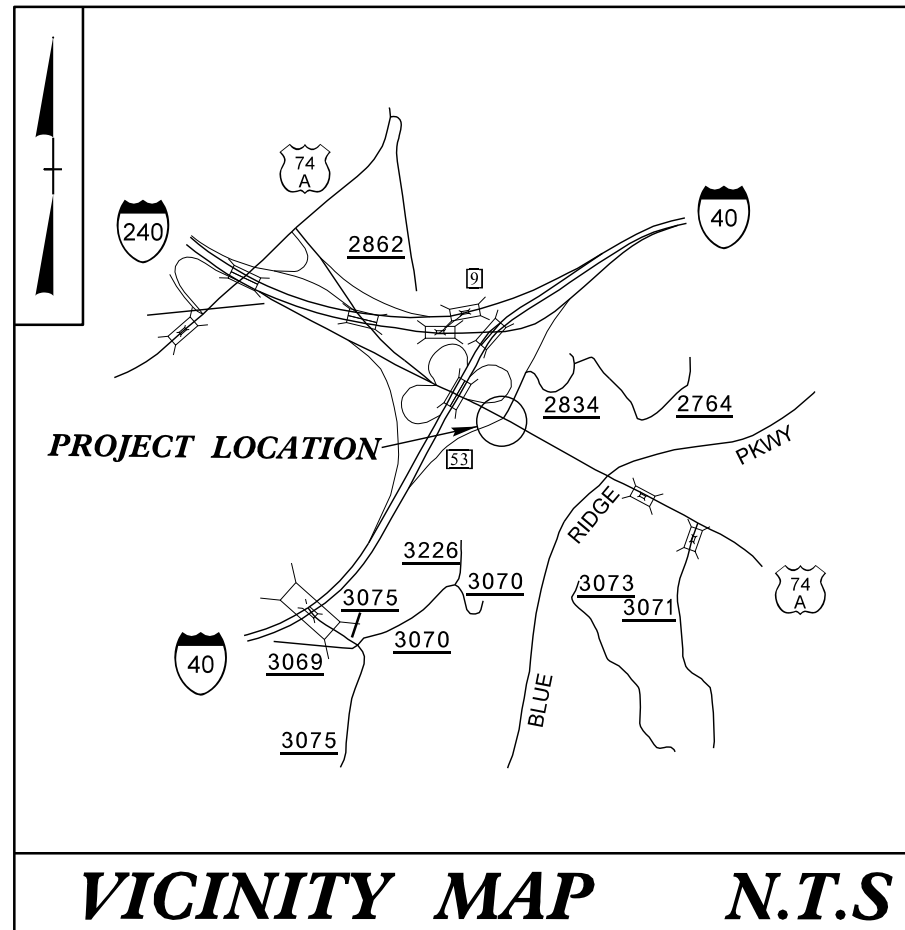
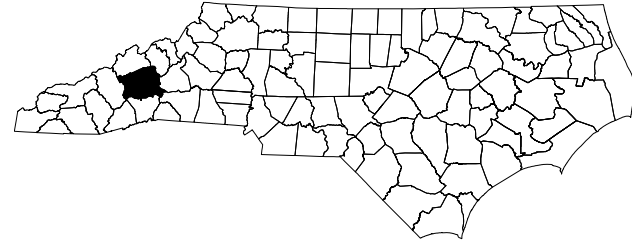
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

BUNCOMBE COUNTY



SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-2	TEMPORARY TRAFFIC CONTROL PHASING
TMP-3	TEMPORARY TRAFFIC CONTROL PHASE I DETOUR
TMP-3A	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-3B	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-4A	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL
TMP-4B	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL
TMP-5	TEMPORARY TRAFFIC CONTROL PHASE III STEP 1 DETAIL
TMP-6	TEMPORARY TRAFFIC CONTROL PHASE III STEP 1 DETAIL
TMP-7	TEMPORARY TRAFFIC CONTROL PHASE III STEP 2 DETAIL
TMP-8	TEMPORARY TRAFFIC CONTROL PHASE III STEP 2 DETAIL
TMP-9	TEMPORARY TRAFFIC CONTROL PHASE IV DETAIL
TMP-10	TEMPORARY TRAFFIC CONTROL PHASE IV DETAIL

SHEET NO.
TMP-1

SM-5713G

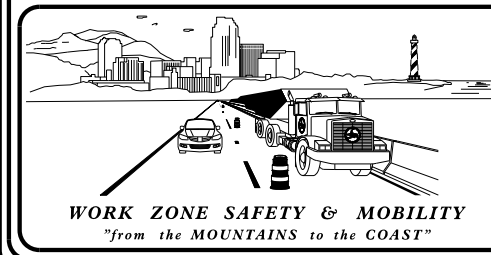
TIP PROJECT:

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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DATE: _____

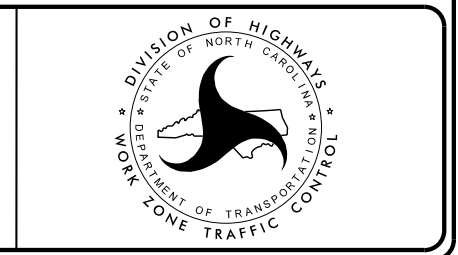
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PLANS PREPARED BY:
DIVISION 13 DDC
55 ORANGE STREET ASHEVILLE, NC 28801

NCDOT CONTACTS:
WILLIAM C. CARVER, P.E.
PROJECT ENGINEER
HAMPTON T. FLETCHER
PROJECT DESIGN ENGINEER



ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - 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:

<u>STD. NO.</u>	<u>TITLE</u>
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1145.01	BARRICADES
1160.01	TEMPORARY CRASH CUSHION
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXIT AND ENTRANCE RAMP
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS

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
- TEMPORARY PAVEMENT

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

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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

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.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
US 74A	7AM - 8:30AM MON - FRI 3:30PM - 6:00PM MON - FRI
I-40 EB EXIT 53 EXIT RAMP	7AM - 8:30AM MON - FRI 3:30PM - 6:00PM MON - FRI

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

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 3:30 P.M. DECEMBER 31st TO 8:30 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:30 A.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 3:30 P.M. THURSDAY AND 8:30 A.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 3:30 P.M. FRIDAY TO 8:30 A.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 3:30 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:30 A.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 3:30 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:30 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 3:30 P.M. FRIDAY AND 8:30 A.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 3:30 P.M. TUESDAY TO 8:30 A.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 3:30 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:30 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

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 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.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- H) 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.
- I) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 350 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

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) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.
- M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- N) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 350 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

- O) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- P) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY

PAVEMENT MARKINGS AND MARKERS

- Q) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
US 74A	PAINT	SNOWPLOWABLE RAISED
I-40 EB EXIT RAMP	PAINT	SNOWPLOWABLE RAISED

- R) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- S) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- T) REMOVE/REPLACE ANY CONFLICTING DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAYS OPERATIONS.

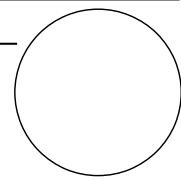
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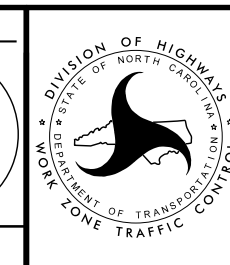
- U) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- V) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.
- W) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

LOCAL NOTES:

- EMERGENCY VEHICLE ACCESS MUST BE MAINTAINED AT ALL TIMES.
- DRIVEWAYS MUST MAINTAIN ACCESS AT ALL TIMES.

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**TRANSPORTATION
OPERATIONS
PLAN**

PROJECT PHASING

PHASE I

STEP 1

USING RDWY STD. 1101.01 (SHEET 1 AND 2) ERECT WORK ZONE ADVANCE WARNING SIGNS ON -L- US 74A, -Y1- I-40 EB OFF RAMP, AND -Y2- I-40 ON RAMP/SR 2834 (GASHES CREEK RD) FOR DETOUR ROUTE. SEE TMP-3, TMP-3A, AND TMP-3B.

STEP 2

ACTIVATE MESSAGE BOARDS AND CLOSE DOWN EXIT 53A RAMP.

STEP 3

CONSTRUCT PROPOSED DRAINAGE STRUCTURE AND DRAINAGE PIPE. SEE TMP-3A

-Y1- STA. 11+64 +/- TO STA. 12+88 +/-

PHASE II

STEP 1

USING RDWY STD 1101.02 (SHEET 3 OF 14), AND FLAGGERS AS NECESSARY, CONSTRUCT PROPOSED -L- AS FOLLOWS:
SEE SHEET TMP-4A

PROPOSED DRAINAGE STRUCTURE AND DRAINAGE PIPE.

-L- STA. 11+25 +/- RT TO -L- STA. 19+03 +/- RT

PHASE III

STEP 1

USING RDWY STD 1101.04, AND FLAGGERS AS NECESSARY, CONSTRUCT PROPOSED -L- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE AS FOLLOWS:
SEE SHEET TMP-5

PROPOSED C+G

-L- STA. 11+25 +/- RT TO -L- STA. 19+03 +/- RT

PROPOSED GUARDRAIL

-Y1- STA. 14+65 +/- RT TO -L- STA. 15+00 +/- RT

MILL AND RESURFACE SHOULDER

-Y1- STA. 3+37 +/- RT TO -Y1- STA. 11+67 +/- RT

STEP 2

USING RDWY STD 1101.04, AND FLAGGERS AS NECESSARY, CONSTRUCT PROPOSED -Y1- AS FOLLOWS:
SEE SHEET TMP-7 AND TMP-8

MILL AND RESURFACE SHOULDER

-Y1- STA. 3+37 +/- LT TO -Y1- STA. 12+88 +/- LT

PHASE IV

STEP 1

USING RDWY STD. 1101.02 (SHEET 3 OF 14) AND FLAGGERS AS NECESSARY PERFORM THE FOLLOWING ON -L- (US 74A) AND -Y1- (I-40 EB OFF RAMP).
SEE TMP-9

-CONSTRUCT TIE INS

-CONSTRUCT PROPOSED MONOLITHIC ISLAND

-MILL AND PLACE FINAL LAYER OF SURFACE COURSE ON -L- (US74A)

-PLACE FINAL PAVEMENT MARKINGS AND MARKERS (SEE PAVEMENT MARKING PLANS)

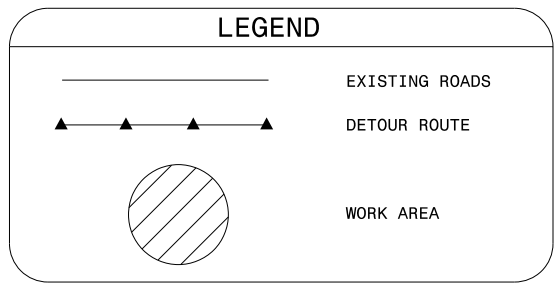
STEP 2

USING RDWY STD. 1101.02 (SHEET 3 OF 14), AND FLAGGERS AS NECESSARY, REMOVE ALL TRAFFIC CONTROL DEVICES.

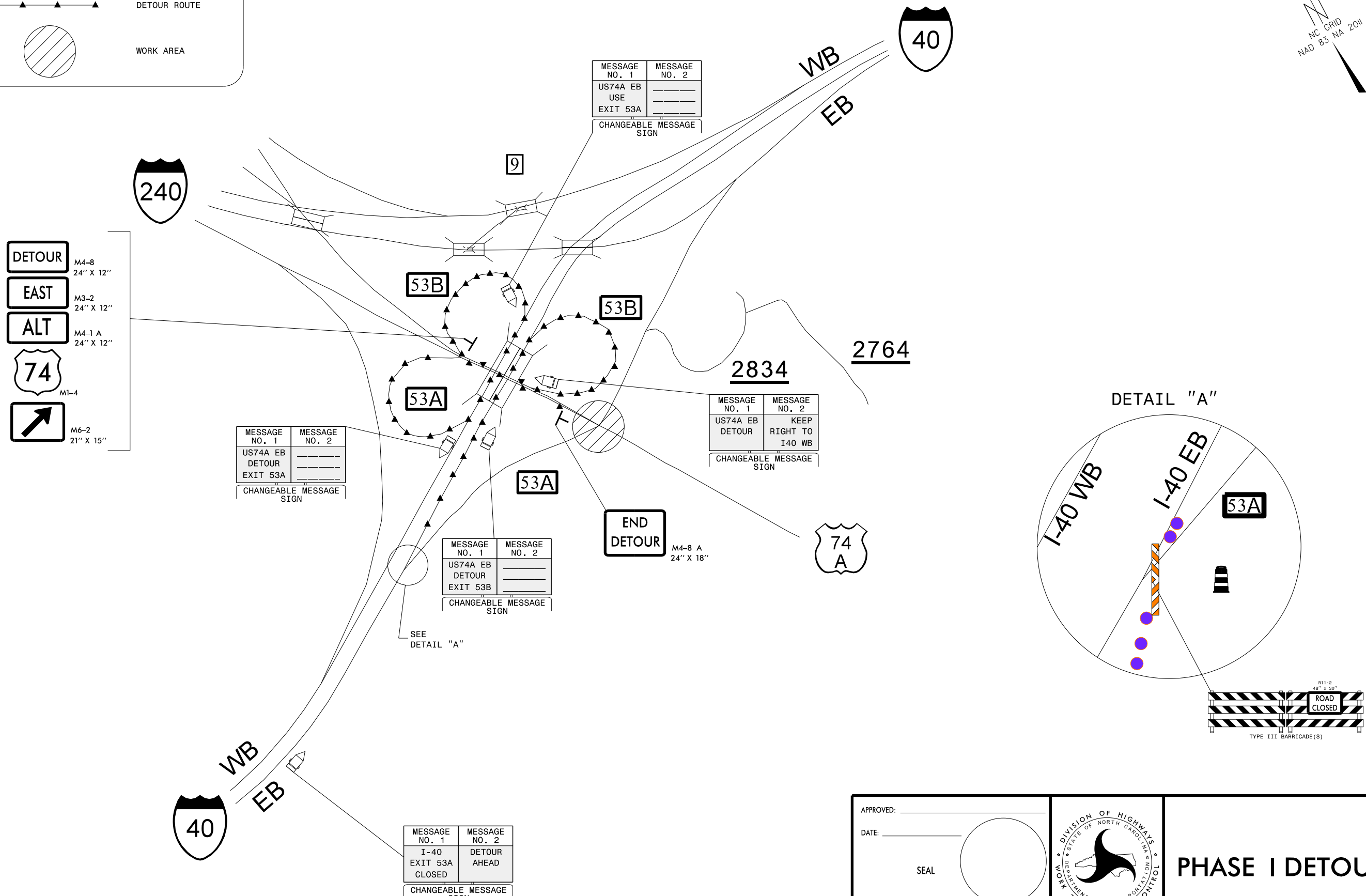
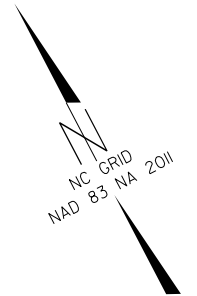
OPEN ALL ROADS TO THEIR FINAL TRAFFIC PATTERN.

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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



PHASE I DETOUR



- DETOUR M4-8 24" X 12"
- EAST M3-2 24" X 12"
- ALT M4-1 A 24" X 12"
- 74 M1-4
- Arrow sign M6-2 21" X 15"

MESSAGE NO. 1	MESSAGE NO. 2
US74A EB	
DETOUR	
EXIT 53A	

CHANGEABLE MESSAGE SIGN

MESSAGE NO. 1	MESSAGE NO. 2
US74A EB	
USE	
EXIT 53A	

CHANGEABLE MESSAGE SIGN

MESSAGE NO. 1	MESSAGE NO. 2
US74A EB	KEEP
DETOUR	RIGHT TO
	I40 WB

CHANGEABLE MESSAGE SIGN

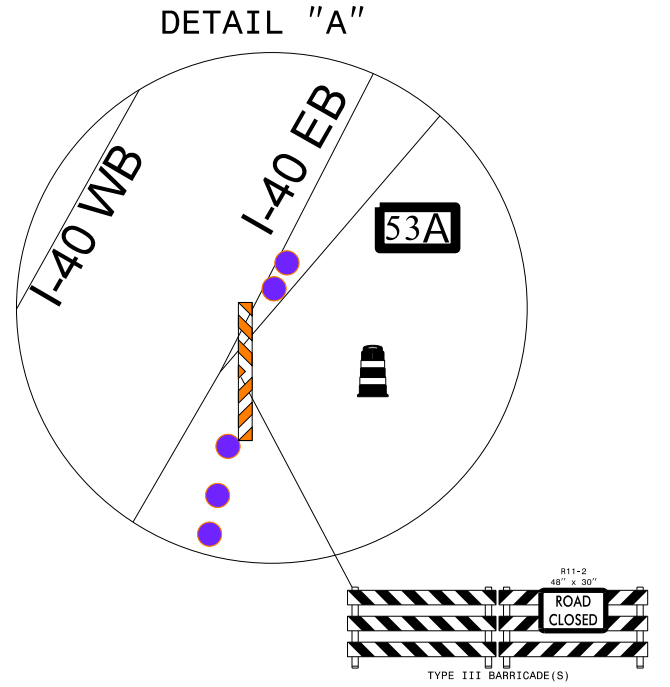
MESSAGE NO. 1	MESSAGE NO. 2
US74A EB	
DETOUR	
EXIT 53B	

CHANGEABLE MESSAGE SIGN

END DETOUR M4-8 A 24" X 18"

MESSAGE NO. 1	MESSAGE NO. 2
I-40	DETOUR
EXIT 53A	AHEAD
CLOSED	

CHANGEABLE MESSAGE SIGN

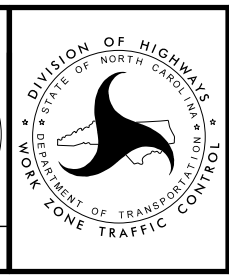


APPROVED: _____

DATE: _____

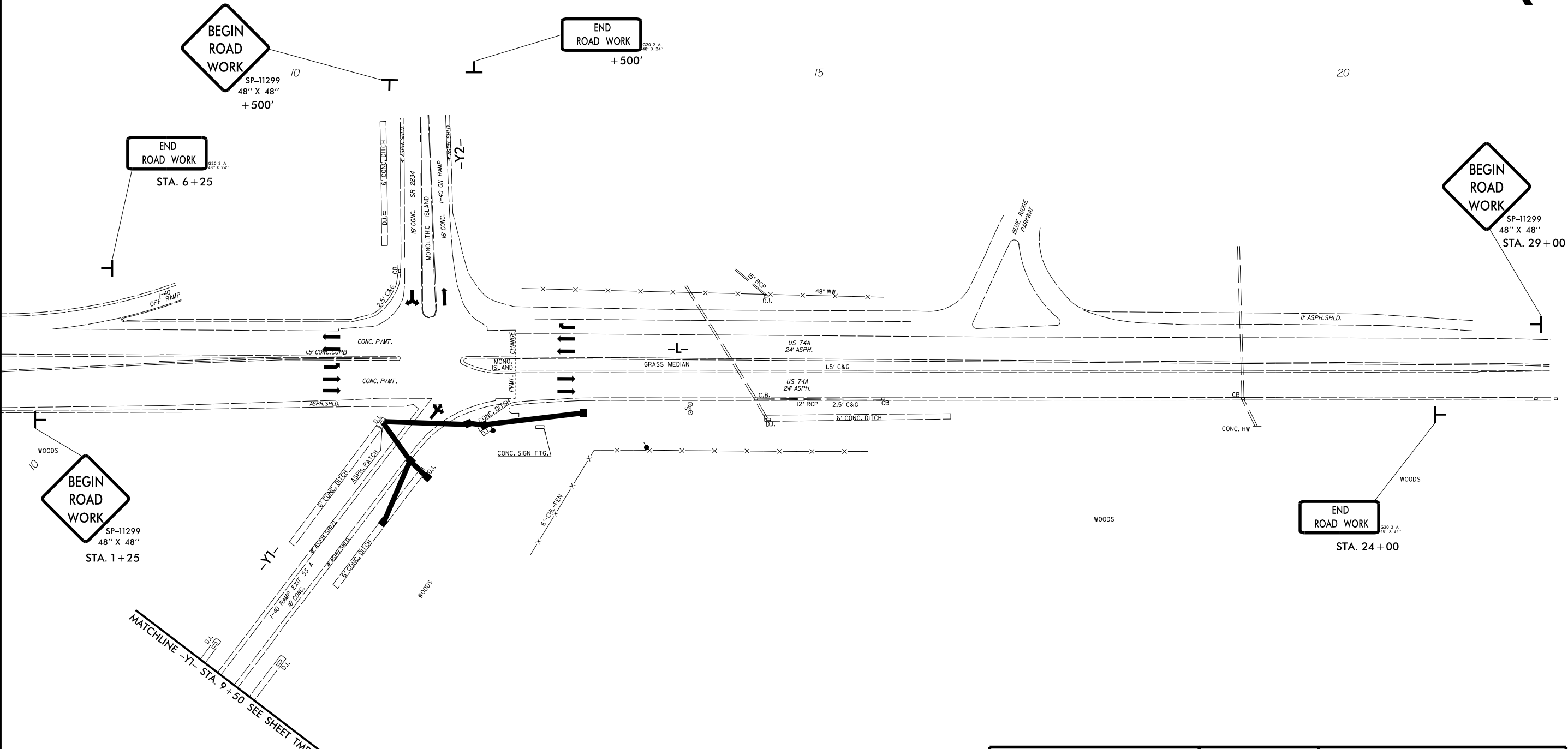
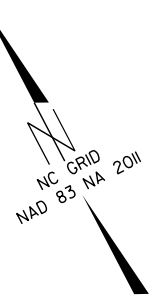
SEAL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PHASE I DETOUR

NOT TO SCALE



BEGIN ROAD WORK
 SP-11299
 48" X 48"
 +500'

END ROAD WORK
 +500'

END ROAD WORK
 STA. 6+25

BEGIN ROAD WORK
 SP-11299
 48" X 48"
 STA. 29+00

BEGIN ROAD WORK
 SP-11299
 48" X 48"
 STA. 1+25

END ROAD WORK
 STA. 24+00

MATCHLINE -Y1- STA. 9+50 SEE SHEET TMP-3B

= WORK AREA

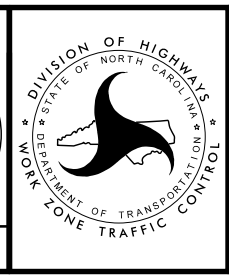
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APPROVED: _____

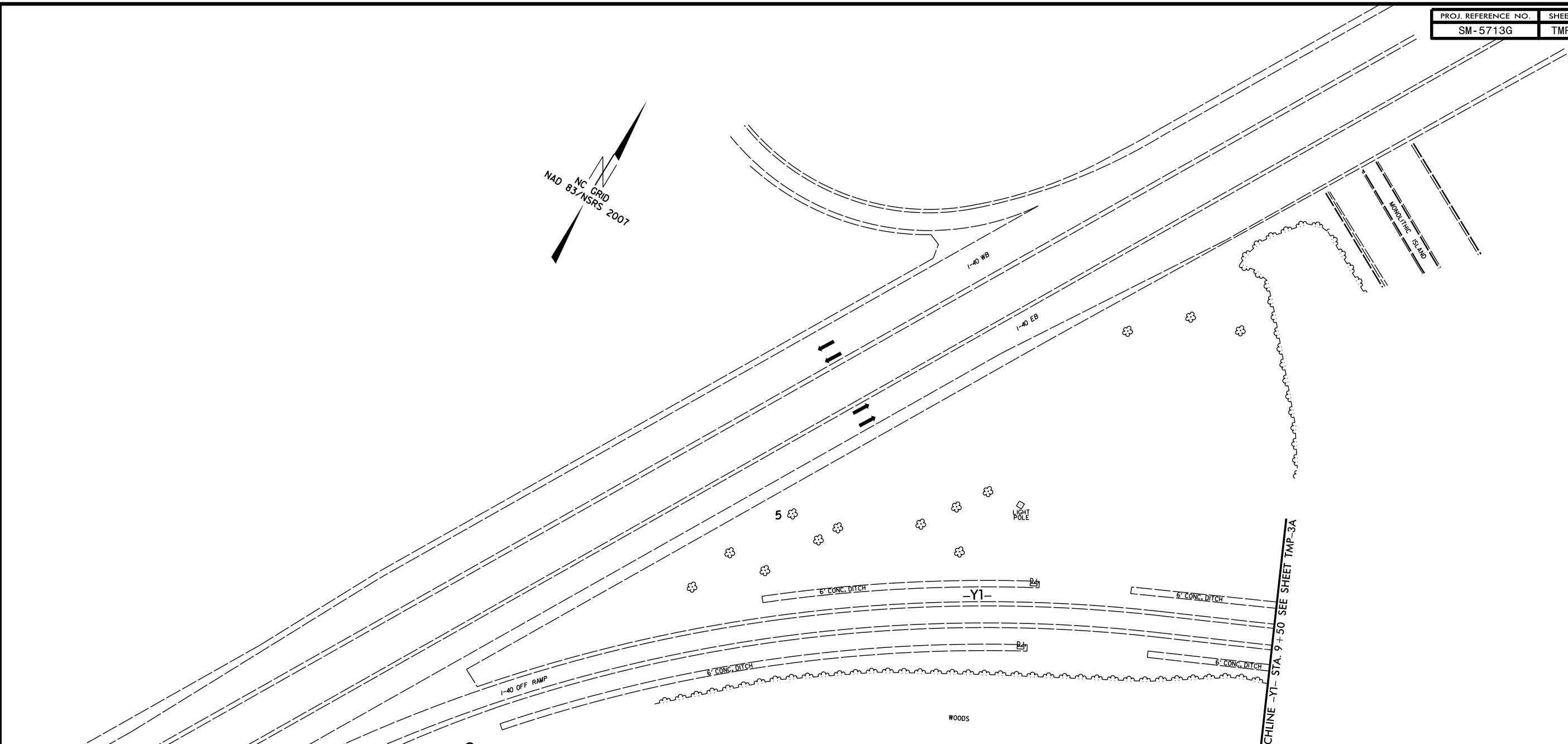
DATE: _____

SEAL

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



PHASE I DETAIL



ROAD
WORK
AHEAD
W20-1
48" X 48"
+1 MILE

BEGIN
ROAD
WORK
SP-11299
48" X 48"
+1500'

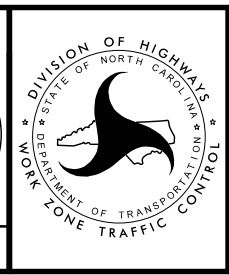
SHOULDER
CLOSED
AHEAD
SP-140
48" X 48"
+1000'

= WORK AREA

APPROVED: _____
DATE: _____

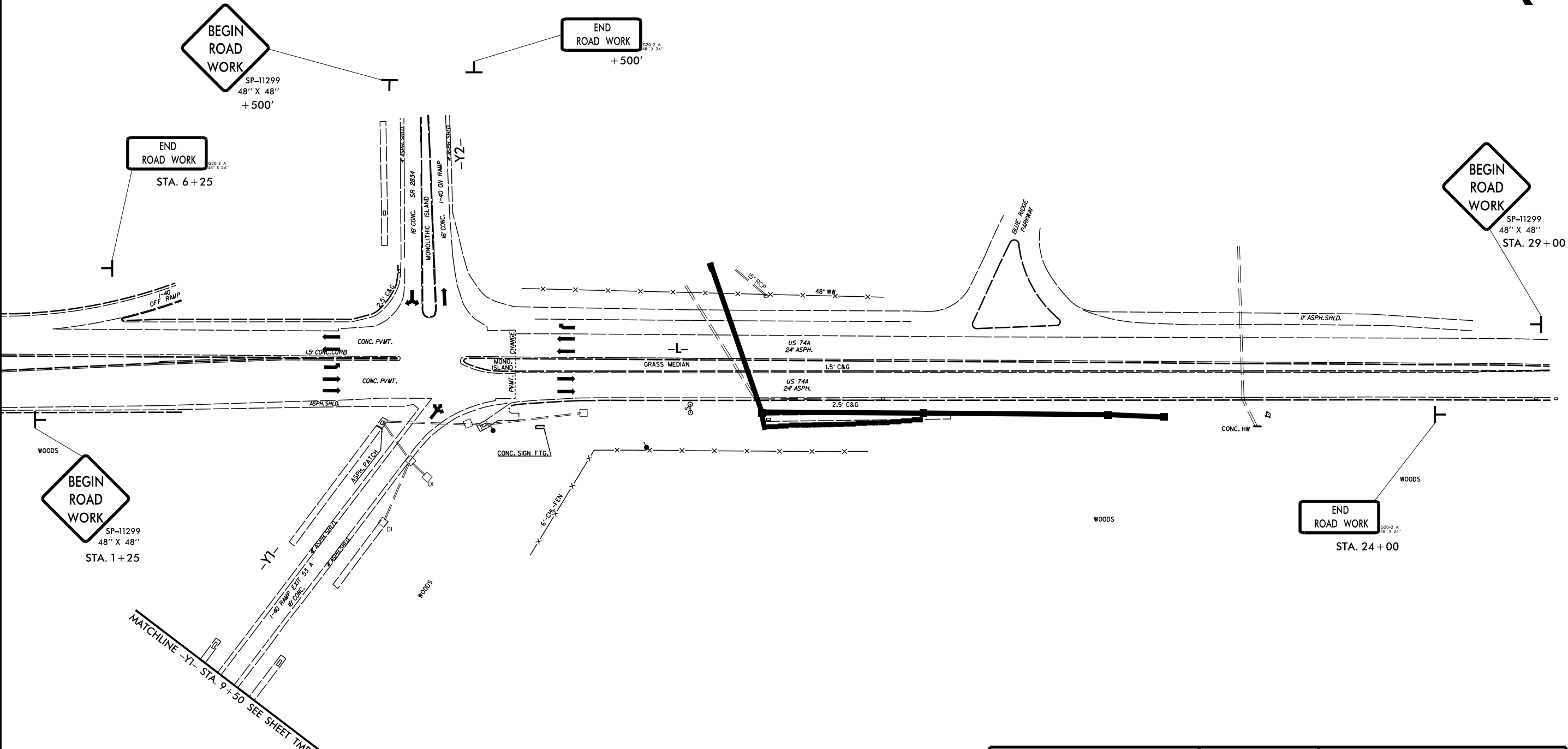
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**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



PHASE I DETAIL

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01-MAY-2023 09:36
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 \$\$\$USERNAME\$\$\$

BEGIN ROAD WORK
 SP-11299
 48" X 48"
 STA. 1+25

MATCHLINE -Y1- STA. 9+50 SEE SHEET TMP-4B

END ROAD WORK
 STA. 6+25

BEGIN ROAD WORK
 SP-11299
 48" X 48"
 +500'

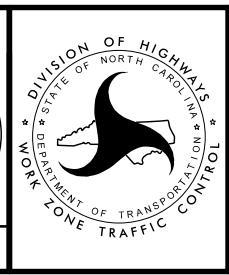
END ROAD WORK
 +500'

BEGIN ROAD WORK
 SP-11299
 48" X 48"
 STA. 29+00

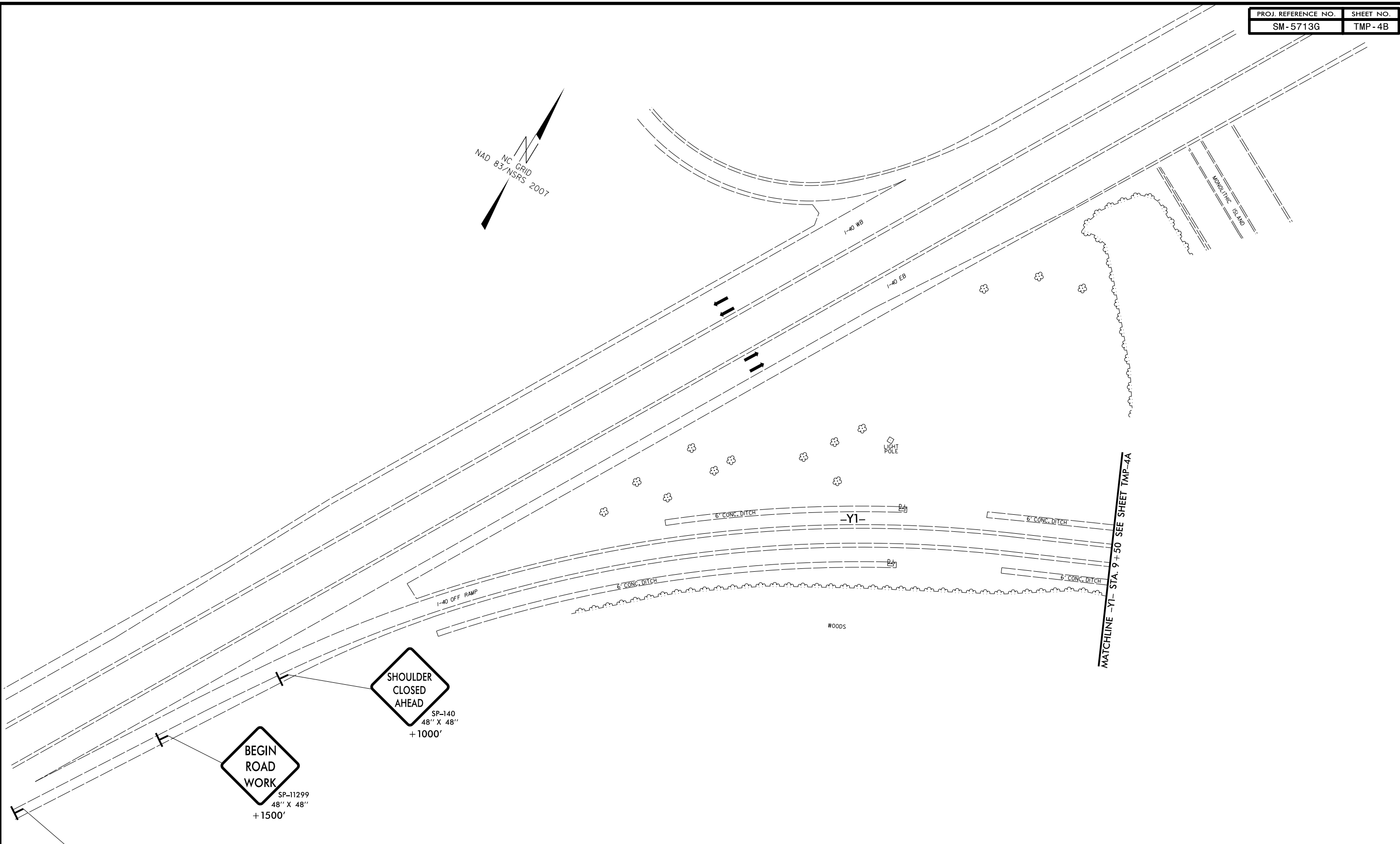
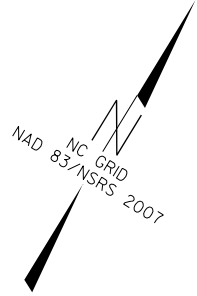
END ROAD WORK
 STA. 24+00

= WORK AREA

APPROVED: _____
 DATE: _____
 SEAL
**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



PHASE II DETAIL



ROAD WORK AHEAD
W20-1
48" X 48"
+1 MILE

BEGIN ROAD WORK
SP-11299
48" X 48"
+1500'

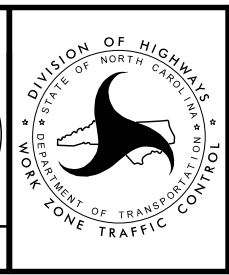
SHOULDER CLOSED AHEAD
SP-140
48" X 48"
+1000'

= WORK AREA

APPROVED: _____
DATE: _____

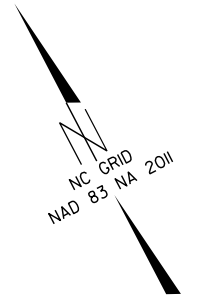
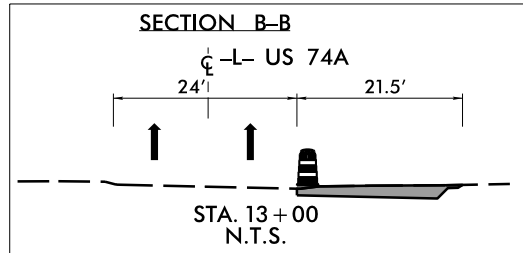
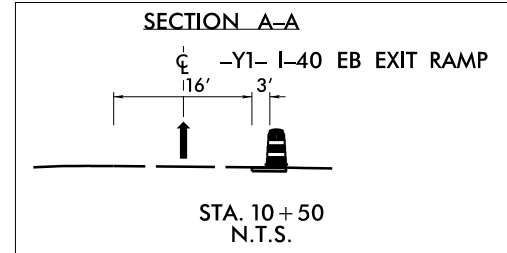
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PHASE II DETAIL

27-OCT-2022 10:56
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 \$\$\$USERNAME\$\$\$



BEGIN ROAD WORK
SP-11299
48" X 48"
+500'

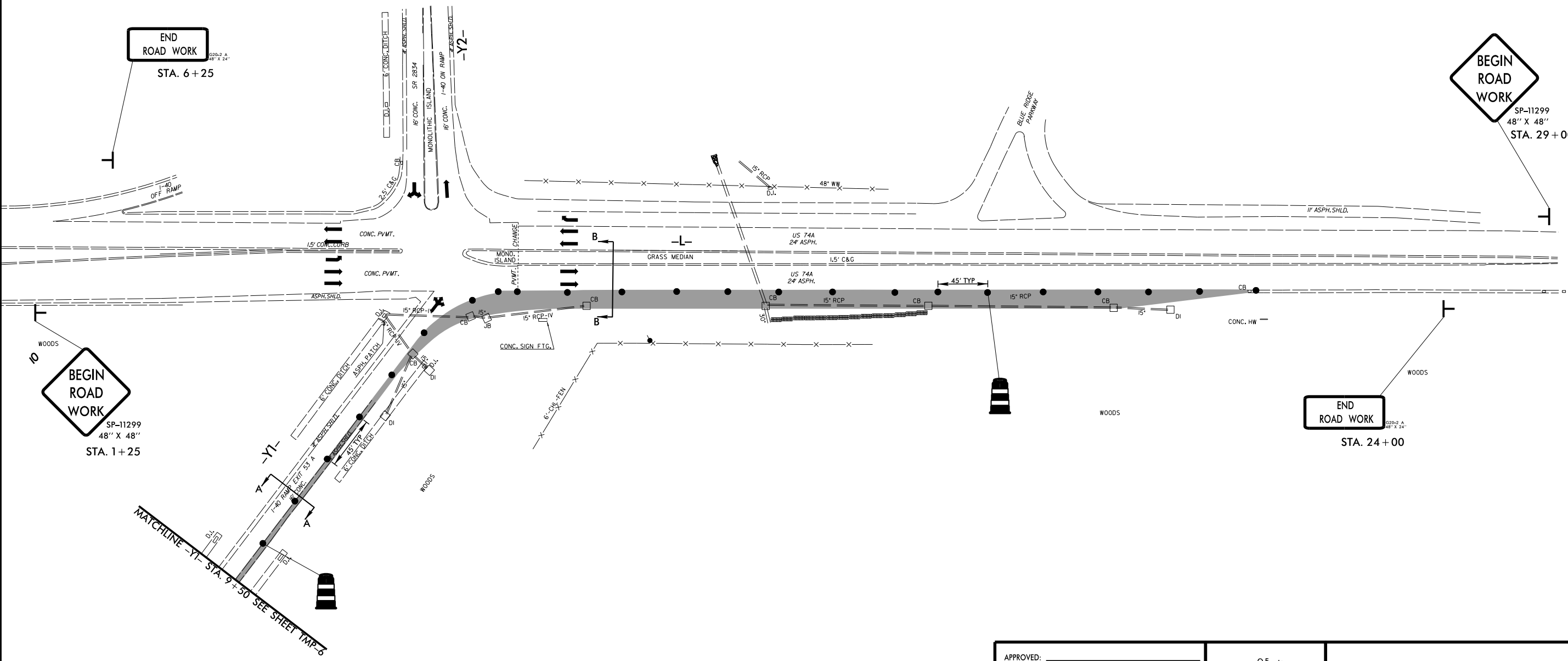
END ROAD WORK
+500'

END ROAD WORK
STA. 6+25

BEGIN ROAD WORK
SP-11299
48" X 48"
STA. 29+00

BEGIN ROAD WORK
SP-11299
48" X 48"
STA. 1+25

END ROAD WORK
STA. 24+00



MATCHLINE -Y1- STA. 9+50 SEE SHEET TMP-5

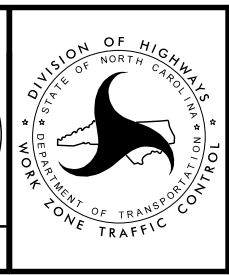
= WORK AREA

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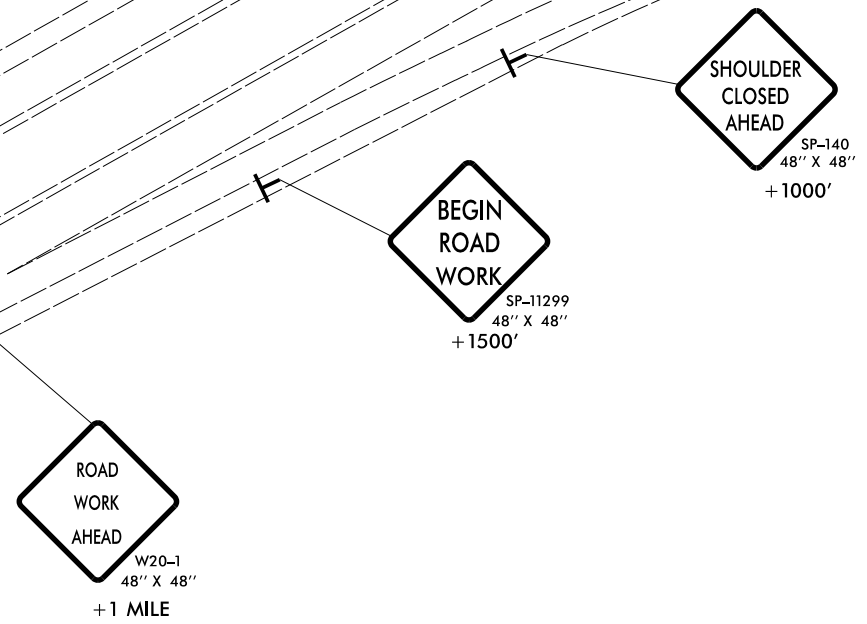
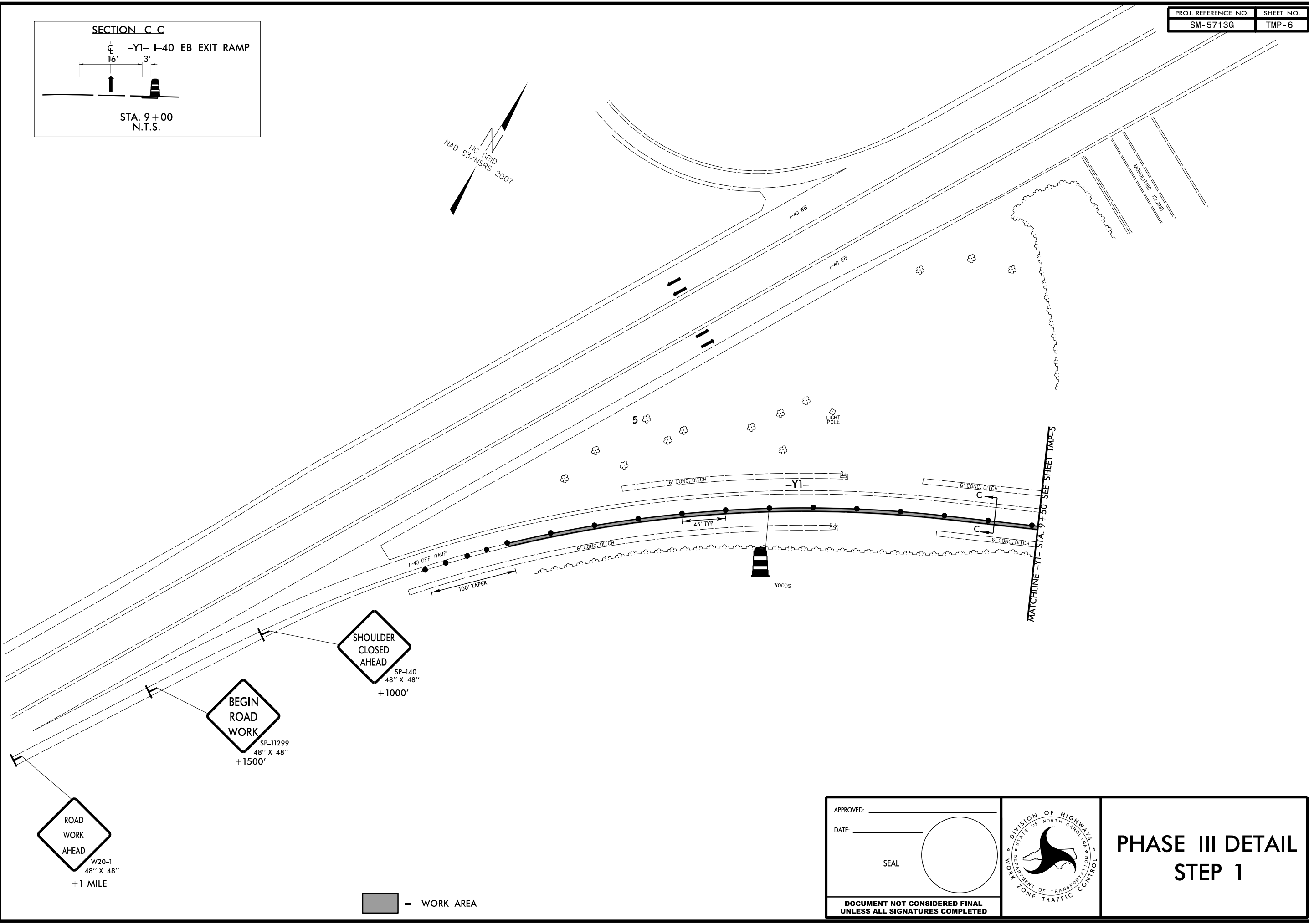
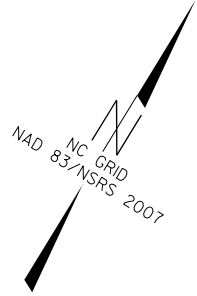
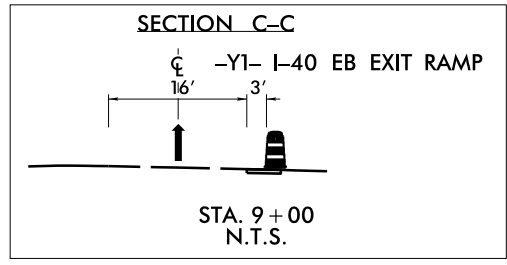
APPROVED: _____
DATE: _____

SEAL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



**PHASE III DETAIL
STEP 1**

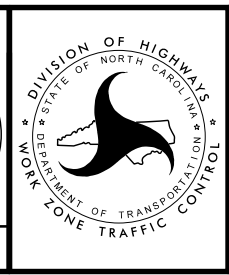


= WORK AREA

APPROVED: _____
 DATE: _____

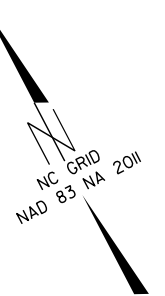
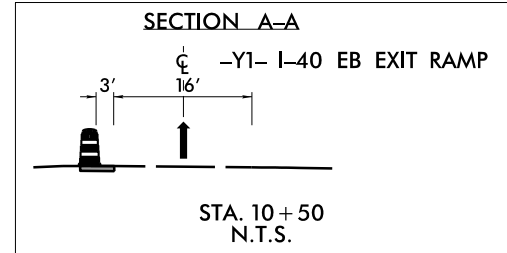
SEAL

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



**PHASE III DETAIL
 STEP 1**

27-OCT-2022 13:05
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 \$\$\$USERNAME\$\$\$



BEGIN ROAD WORK
SP-11299
48" X 48"
+500'

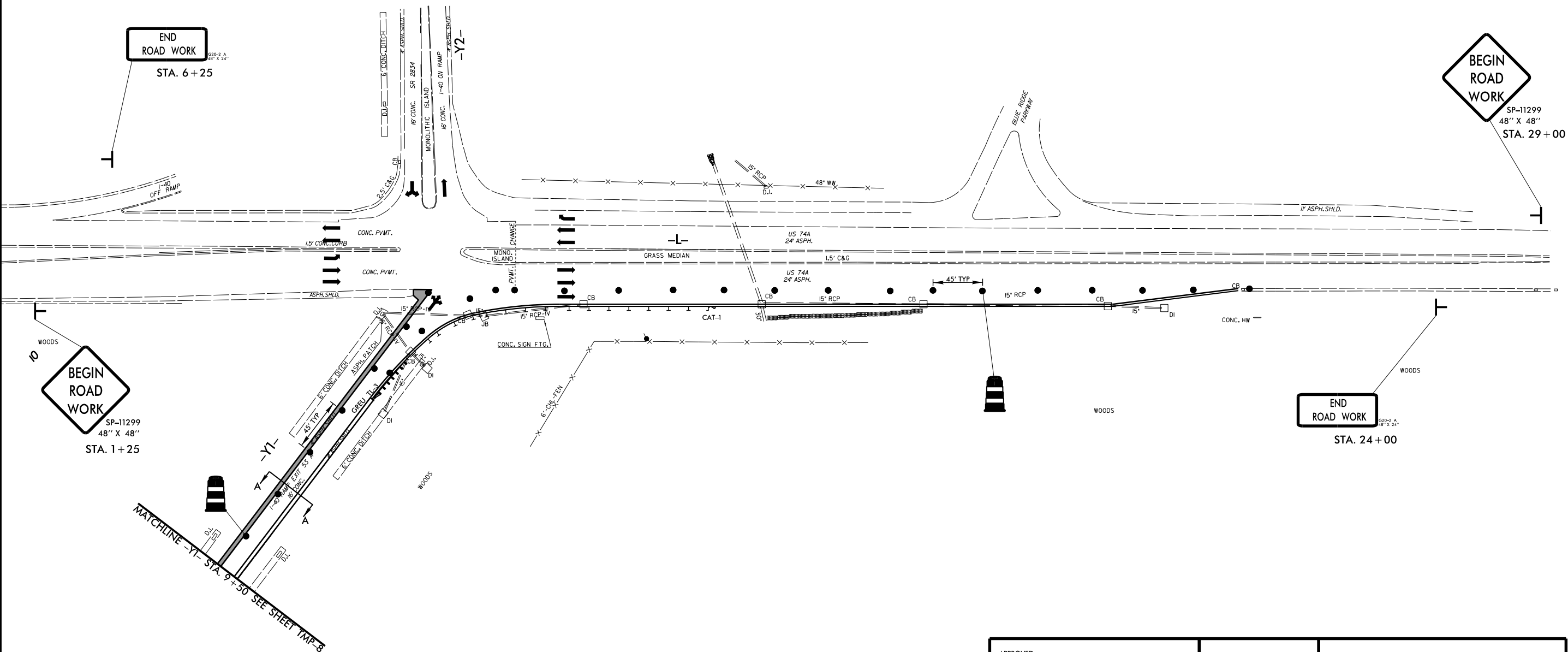
END ROAD WORK
+500'

END ROAD WORK
STA. 6+25

BEGIN ROAD WORK
SP-11299
48" X 48"
STA. 29+00

BEGIN ROAD WORK
SP-11299
48" X 48"
STA. 1+25

END ROAD WORK
STA. 24+00



MATCHLINE -Y1- STA. 9+50 SEE SHEET TMP-8

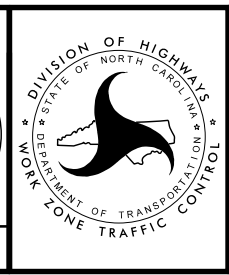
= WORK AREA

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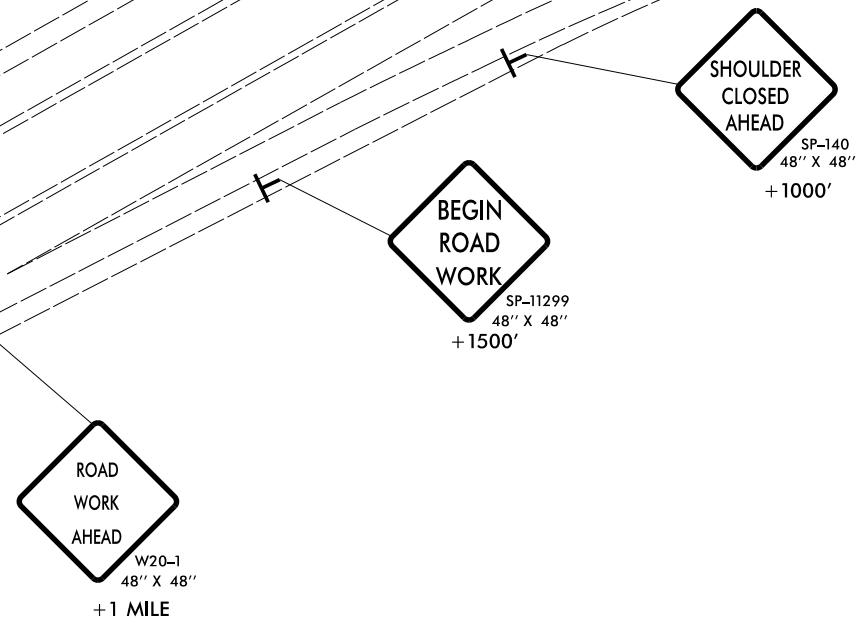
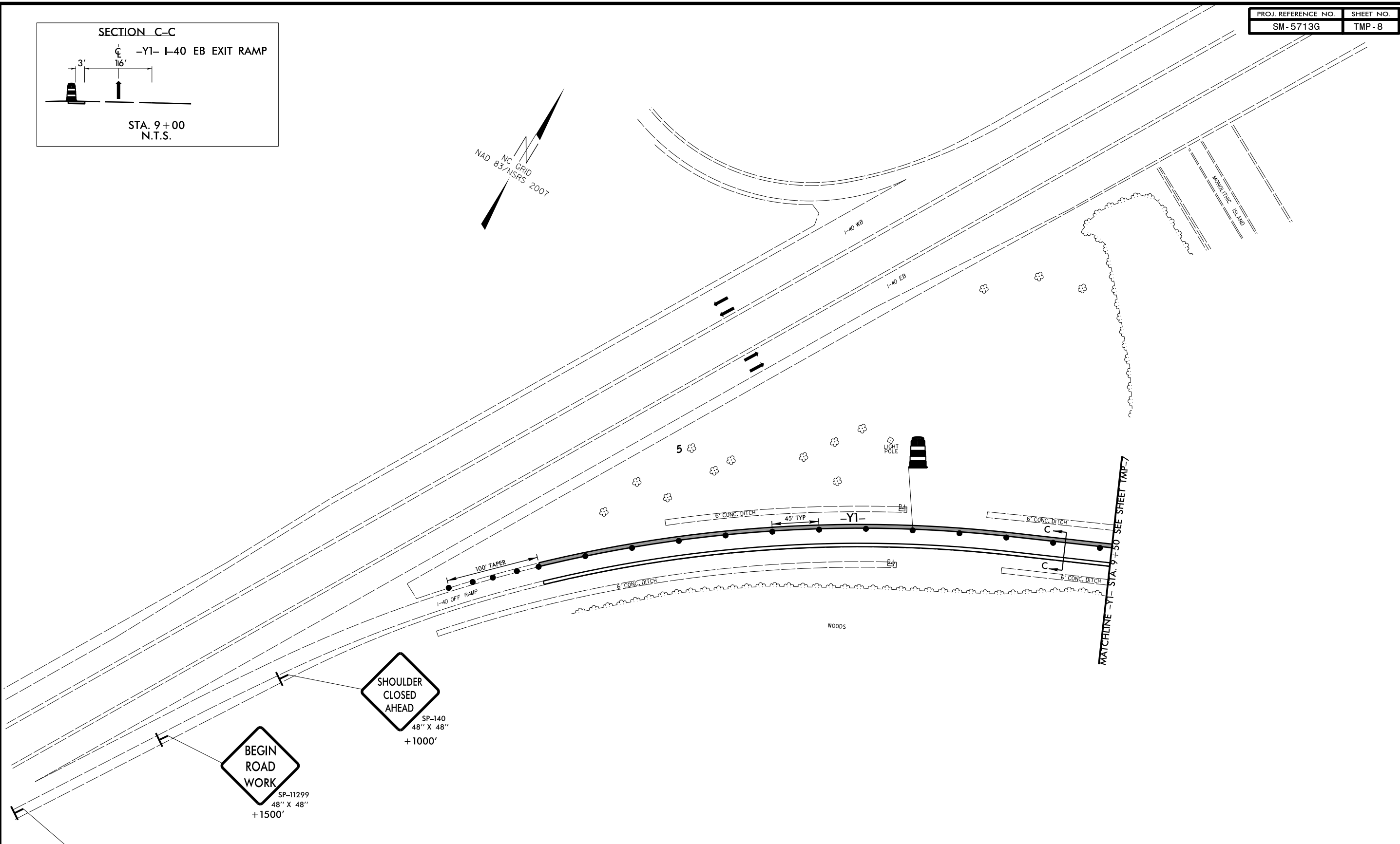
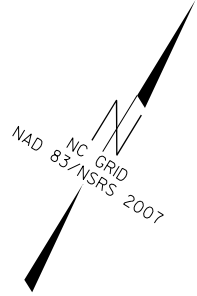
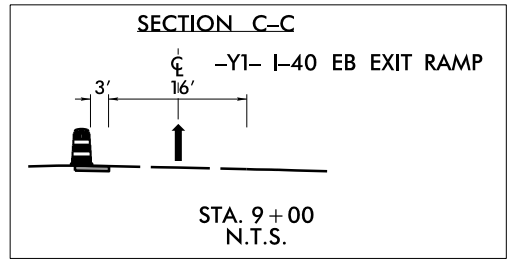
APPROVED: _____
DATE: _____

SEAL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PHASE III DETAIL STEP 2

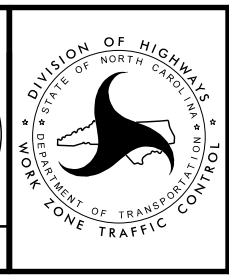


= WORK AREA

APPROVED: _____
 DATE: _____

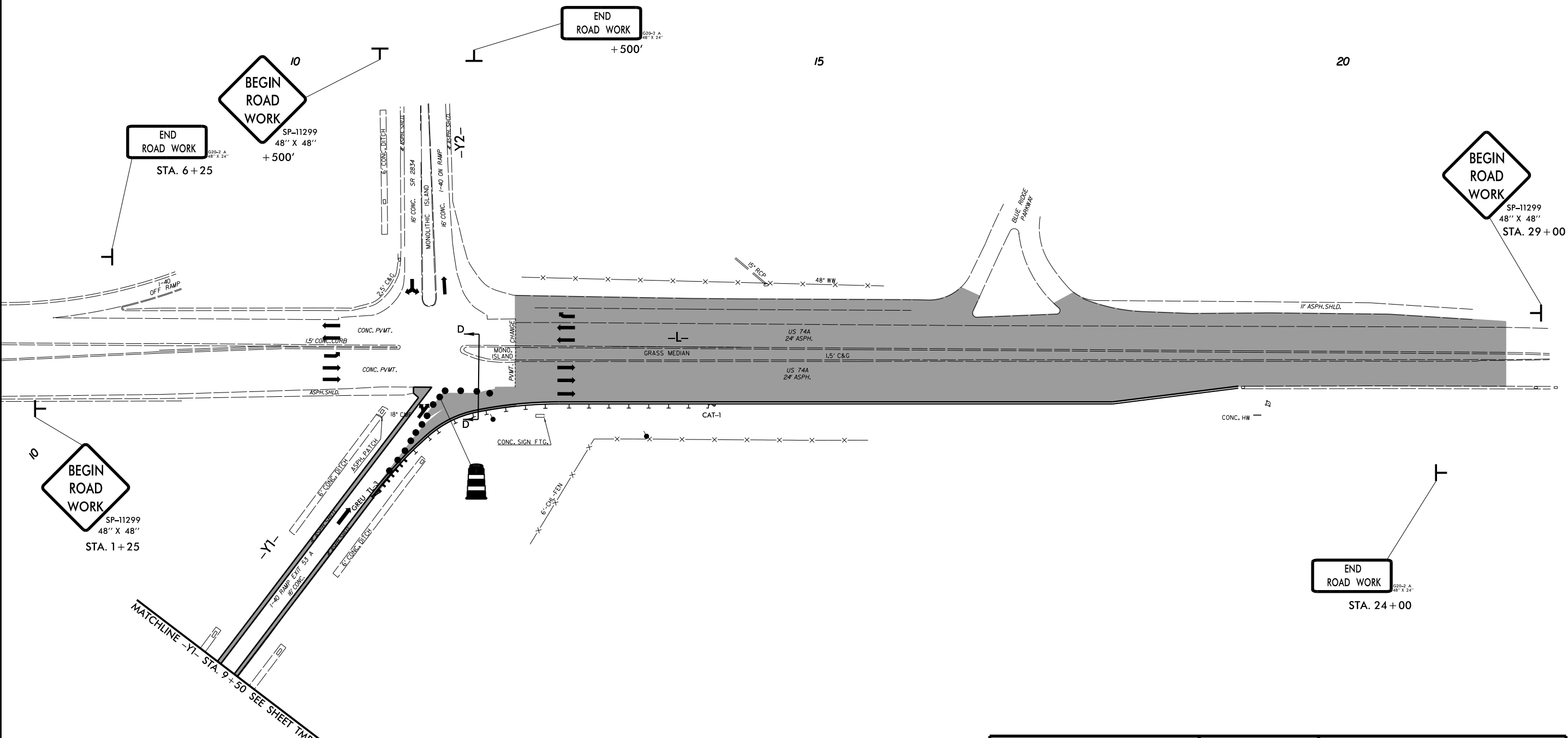
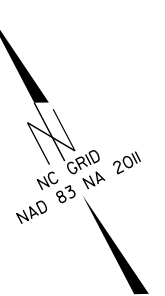
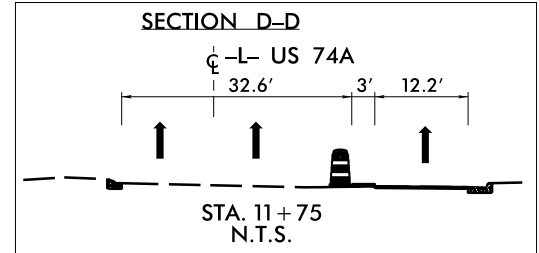
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**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



**PHASE III DETAIL
 STEP 2**

27-OCT-2022 14:30
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 \$\$\$USERNAME\$\$\$



BEGIN ROAD WORK
SP-11299
48" X 48"
STA. 1+25

MATCHLINE -Y1- STA. 9+50 SEE SHEET TMP-10

BEGIN ROAD WORK
SP-11299
48" X 48"
+500'

END ROAD WORK
STA. 6+25

END ROAD WORK
+500'

BEGIN ROAD WORK
SP-11299
48" X 48"
STA. 29+00

END ROAD WORK
STA. 24+00

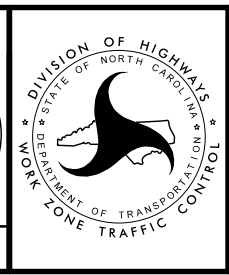
= WORK AREA

NOTE:
-PLACE TEMPORARY PAVEMENT MARKINGS AS NEEDED UNTIL FINAL SURFACE HAS BEEN PLACED.

APPROVED: _____
DATE: _____

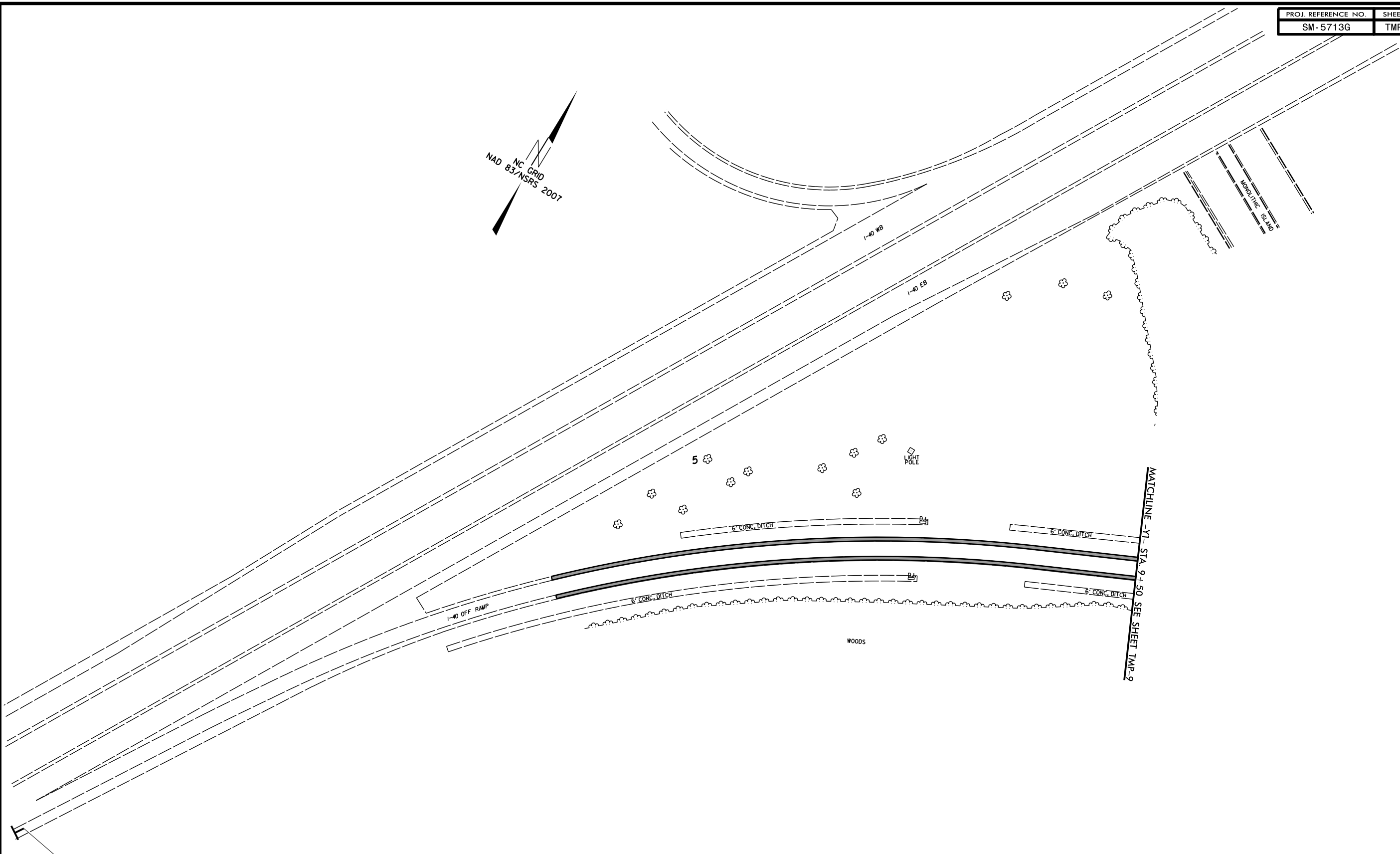
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

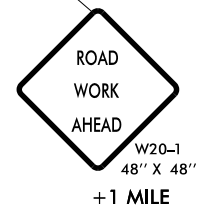


PHASE IV DETAIL

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27-OCT-2022 14:15
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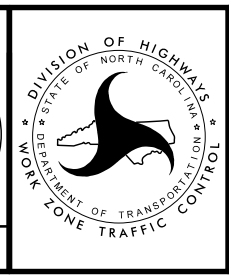


APPROVED: _____

DATE: _____

SEAL

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**




PHASE IV DETAIL

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
BUNCOMBE COUNTY**

LOCATION: I-40 EXIT 53A OFF-RAMP ACCELERATION LANE

TIP NO. SM-5713G	SHEET NO. PMP-01
<small>DocuSigned by:</small> APPROVED: <u>Jose G. Martinez</u> <small>44208419C888461...</small>	
DATE: 02/09/2023	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

T.I.P.: SM-5713G

**PAVEMENT
MARKING SCHEDULE**

SYMBOL	DESCRIPTION	FINAL PAVEMENT MARKINGS
		THERMOPLASTIC (4", 90 MILS)
T10	(4") YELLOW EDGELINE	
T1	(4") WHITE EDGELINE	
T2	WHITE SOLID LANE LINE	
T3	(4") 10 FT. WHITE SKIP	
T4	(4") 3 FT. - 9 FT./SP WHITE MINISKIP	
		THERMOPLASTIC (8", 90 MILS)
T40	(8") WHITE GORELINE	
T43	(8") WHITE SOLID LANE LINE	
T44	(8") 3 FT. - 9 FT./SP WHITE MINISKIP	
		THERMOPLASTIC GENERIC PAVEMENT MARKING ITEM (1205)
T61	WHITE STOPBAR (24", 90 MIL)	
		THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS)
T100	ALPHANUMERIC CHAR. (90 MIL)	
		THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)
T103	24" YIELD LINE TRIANGLE	
T71	RIGHT TURN ARROW	
T72	STRAIGHT ARROW	
T74	COMBO.STRAIGHT/RIGHT	
T79	MERGE ARROW	
T80	RAMP ARROW SYMBOL	
		THERMOPLASTIC(6", 90 MILS)
T20	(6") WHITE EDGELINE	
T23	(6") 3 FT. - 9 FT./SP WHITE MINISKIP	
T30	(6") YELLOW EDGELINE	
		MARKERS
		SNOWPLOWABLE RAISED PAVEMENT MARKERS
MF	CRYSTAL & RED	

GENERAL NOTES

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) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:
- | ROAD NAME | MARKING | MARKER |
|-----------|---------------|--------------|
| ALL | THERMOPLASTIC | SNOWPLOWABLE |
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
 C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
 D) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
 E) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR 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:

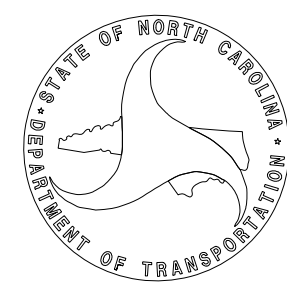
STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.03	PAVEMENT MARKINGS - EXIT AND ENTRANCE RAMPS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE
1261.01	GUARDRAIL AND BARRIER DELINEATORS-INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS-TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

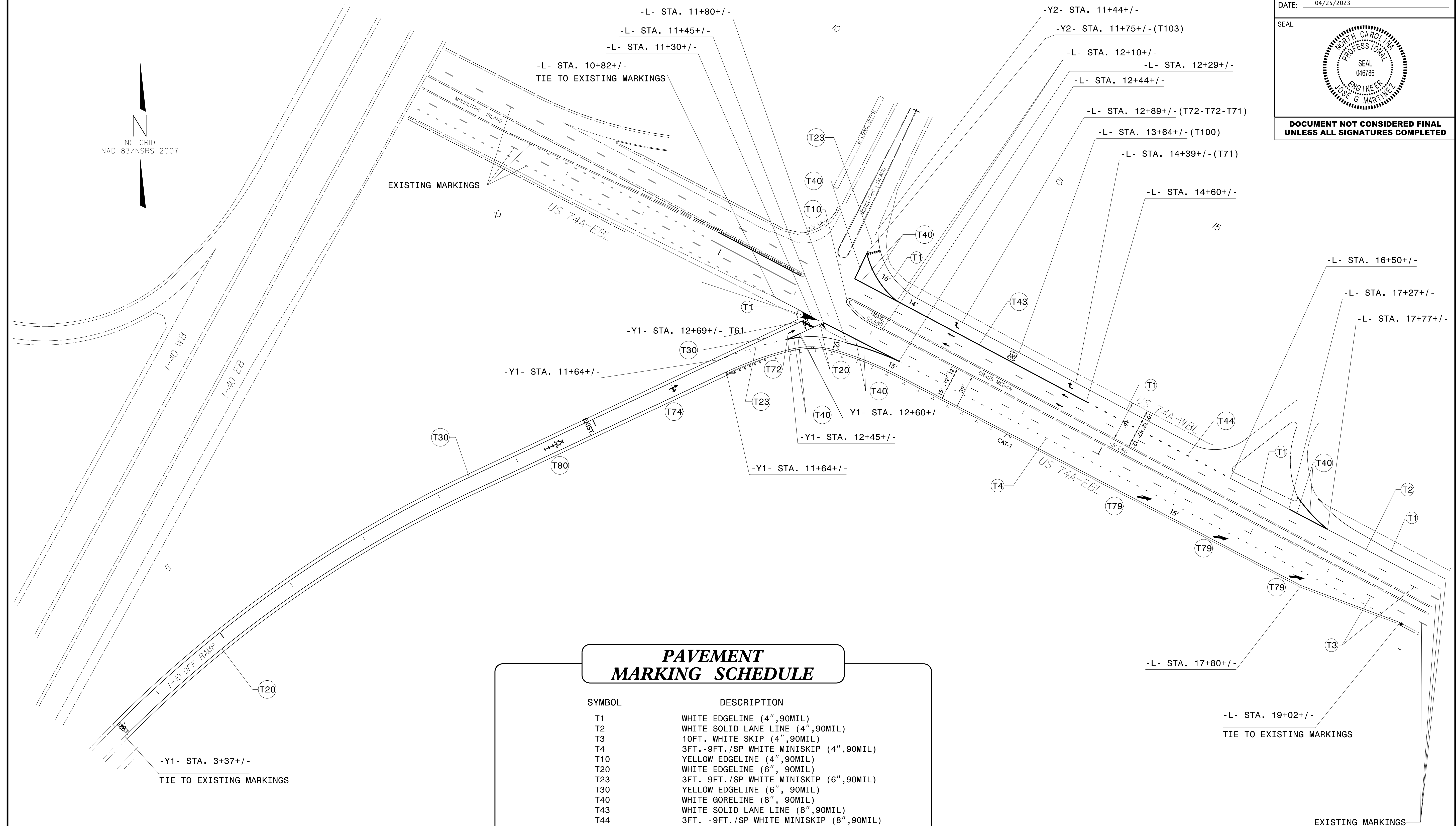
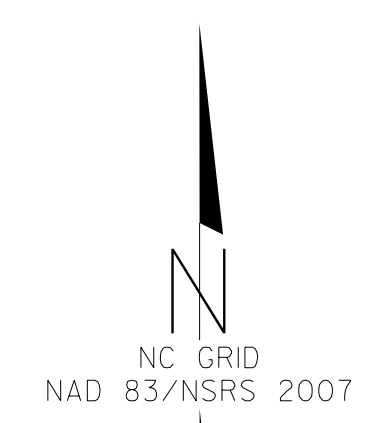
INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-2-	PAVEMENT MARKING DETAIL

PLAN PREPARED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

K.L. JORDAN SIGNING & DELINEATION REGIONAL ENGINEER
 J.G. MARTINEZ, PE SIGNING & DELINEATION PROJECT DESIGN ENGINEER/TECHNICIAN





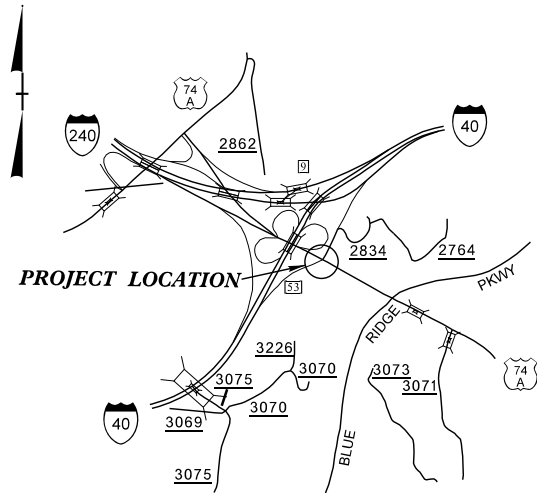
PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
T1	WHITE EDGELINE (4", 90MIL)
T2	WHITE SOLID LANE LINE (4", 90MIL)
T3	10FT. WHITE SKIP (4", 90MIL)
T4	3FT.-9FT./SP WHITE MINISKIP (4", 90MIL)
T10	YELLOW EDGELINE (4", 90MIL)
T20	WHITE EDGELINE (6", 90MIL)
T23	3FT.-9FT./SP WHITE MINISKIP (6", 90MIL)
T30	YELLOW EDGELINE (6", 90MIL)
T40	WHITE GORELINE (8", 90MIL)
T43	WHITE SOLID LANE LINE (8", 90MIL)
T44	3FT.-9FT./SP WHITE MINISKIP (8", 90MIL)
T61	WHITE STOPBAR (24", 90MIL)
T71	RIGHT TURN ARROW (90MIL)
T72	STRAIGHT ARROW (90MIL)
T74	COMBO. RIGHT/STRAIGHT ARROW (90MIL)
T79	MERGE ARROW (90MIL)
T80	WRONG-WAY RAMP ARROW (90MIL)
T100	ALPHANUMERIC CHAR. (90MIL)
T103	24" YIELD LINE TRIANGLE (90MIL)
MF	SNOWPLOWABLE MARKERS (Crystal & Red)

PAVEMENT MARKING DETAIL

04/25/23
 U:\Projects\2022 Sign Designs\Div 13\SM-5713G\SM-5713G_PMP.dgn
 User: jgmartinez

TIP PROJECT: SM-5713G



VICINITY MAP

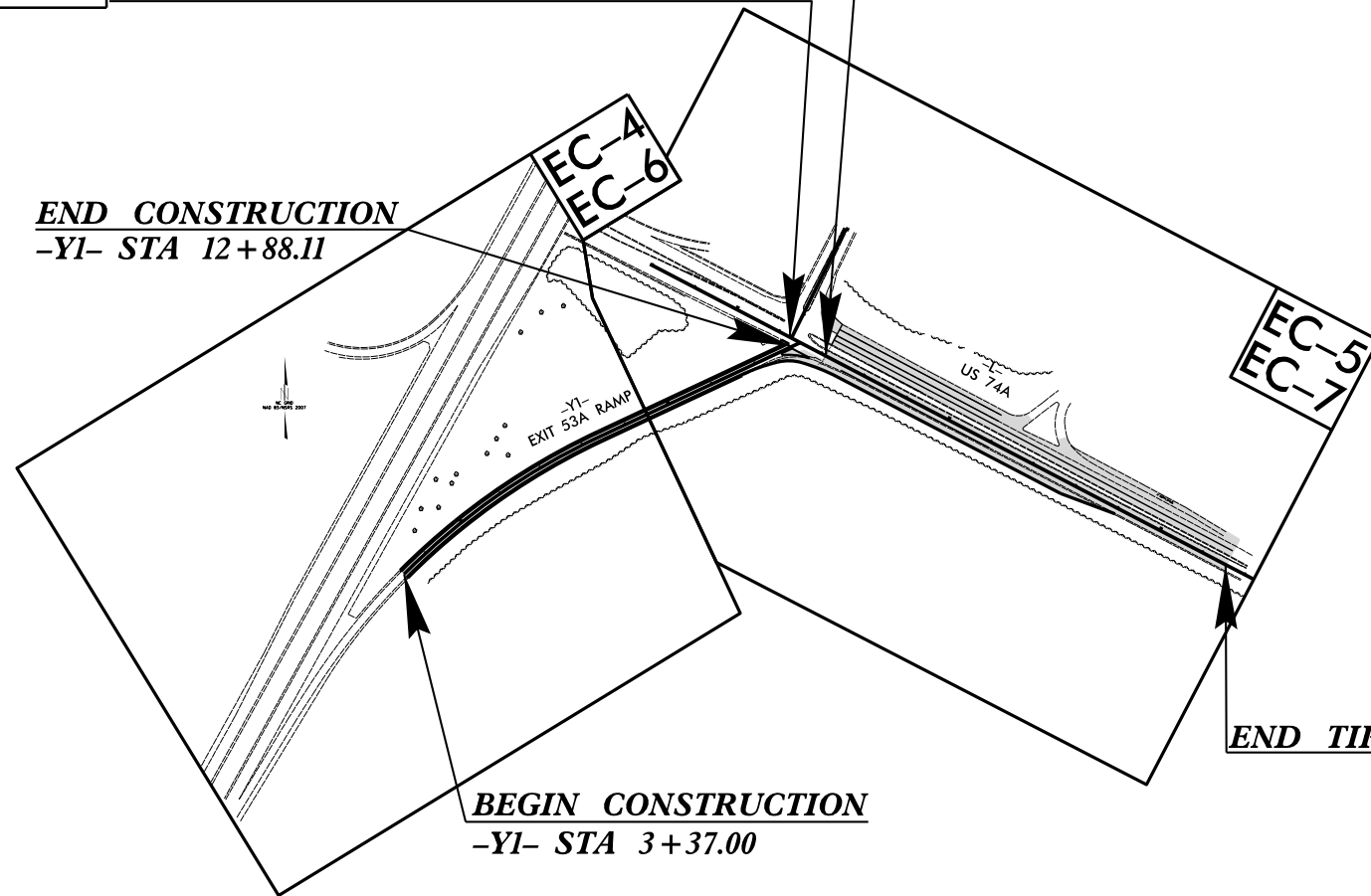
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
**PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL**

**LOCATION: I-40 EB EXIT 53A OFF RAMP AND US 74A
TYPE OF WORK: GRADING, DRAINAGE, AND PAVING**

BEGIN TIP PROJECT -L- STA 12+09.70

BEGIN CONSTRUCTION -L- STA 11+25.00

**END CONSTRUCTION
-YI- STA 12+88.11**



**BEGIN CONSTRUCTION
-YI- STA 3+37.00**

END TIP PROJECT -L- STA 21+55.00

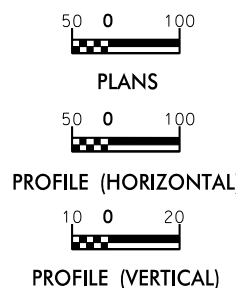
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	SM-5713G	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	III III III
1622.01	Temporary Berms and Slope Drains	TD
1630.02	Silt Basin Type B	TD
1633.01	Temporary Rock Silt Check Type-A	TD
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TD
1633.02	Temporary Rock Silt Check Type-B	TD
	Wattle/Coir Fiber Wattle	TD
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	TD
1634.01	Temporary Rock Sediment Dam Type-A	TD
1634.02	Temporary Rock Sediment Dam Type-B	TD
1635.01	Rock Pipe Inlet Sediment Trap Type-A	TD
1635.02	Rock Pipe Inlet Sediment Trap Type-B	TD
1630.04	Stilling Basin	TD
1630.06	Special Stilling Basin	TD
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	TD
	Tiered Skimmer Basin	TD
	Infiltration Basin	TD

THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.

GRAPHIC SCALE



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:
DIVISION 13 DDC
55 Orange St.
Asheville, NC 28801

2018 STANDARD SPECIFICATIONS

Designed by:
Hampton Fletcher 3382
NAME LEVEL III CERTIFICATION NO.

Reviewed In the Office of:
ROADSIDE ENVIROMENTAL UNIT
693 Mountain Rd.
Hendersonville, NC 28791

2018 STANDARD SPECIFICATIONS

Reviewed by:
Reid Whitehead PE, CPESC
NAME

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 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type J
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type J
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type J	1634.02 Temporary Rock Sediment Dam Type J
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type J
1630.05 Temporary Diversion	1640.01 Coir Fiber Jaffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

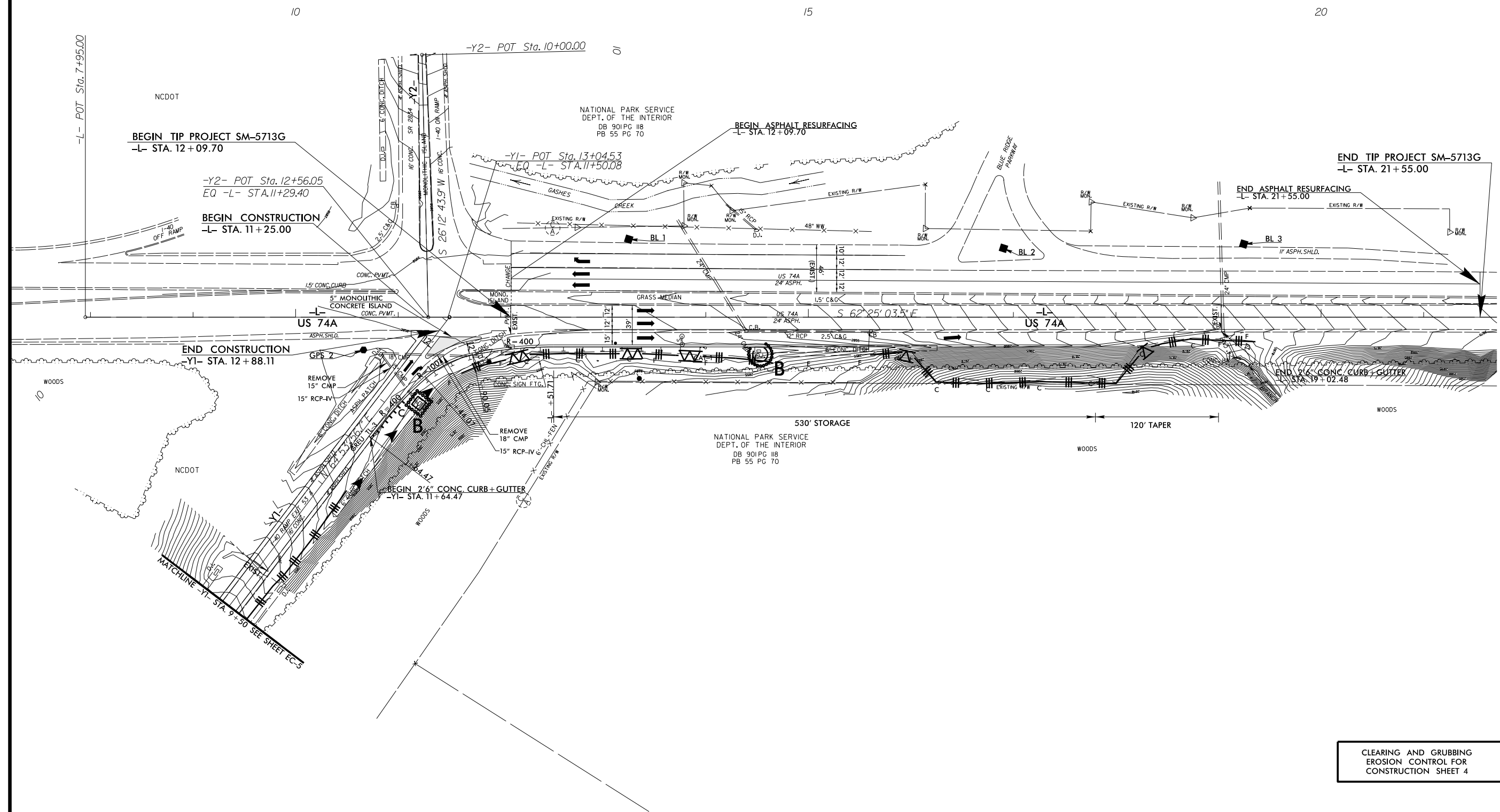
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
<i>SM-5713G</i>	<i>EC-3A</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

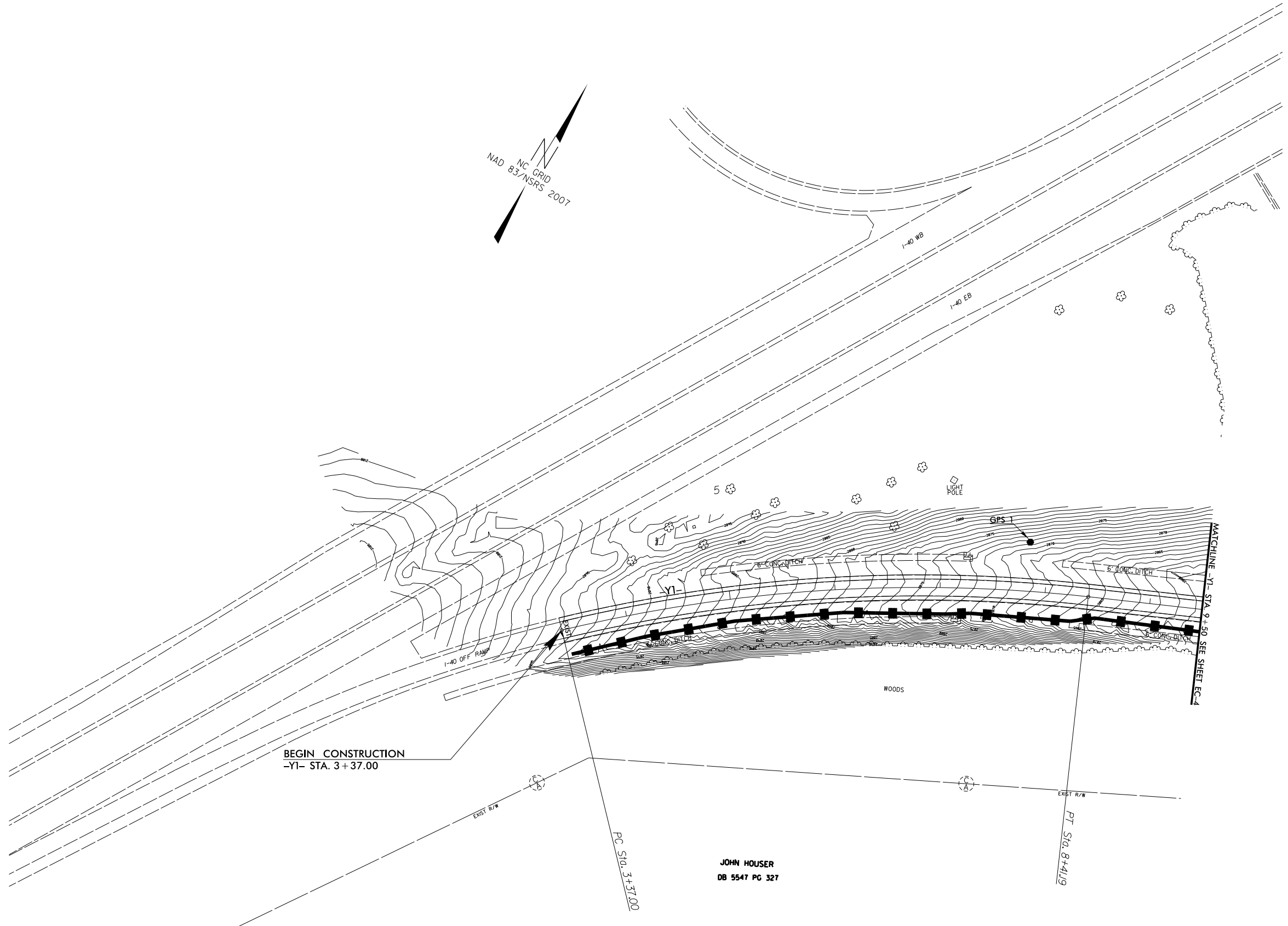
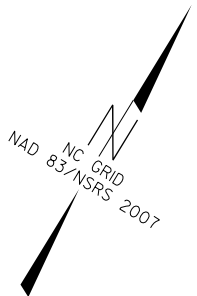
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 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.

PROJECT REFERENCE NO. SM-5713G	SHEET NO. EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

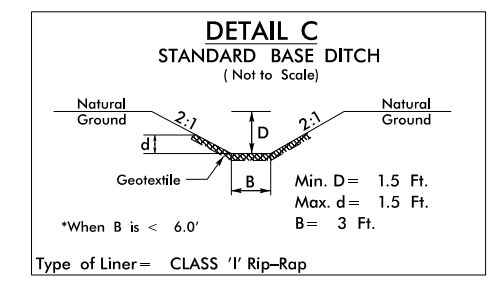
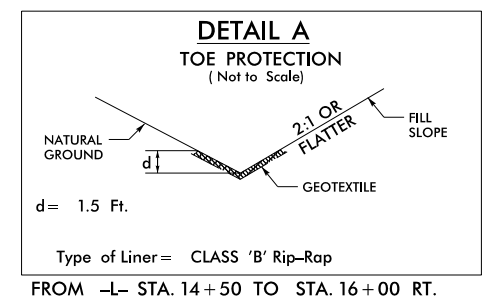
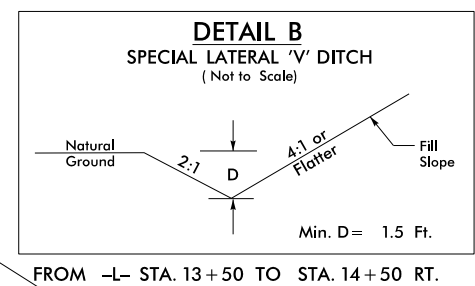
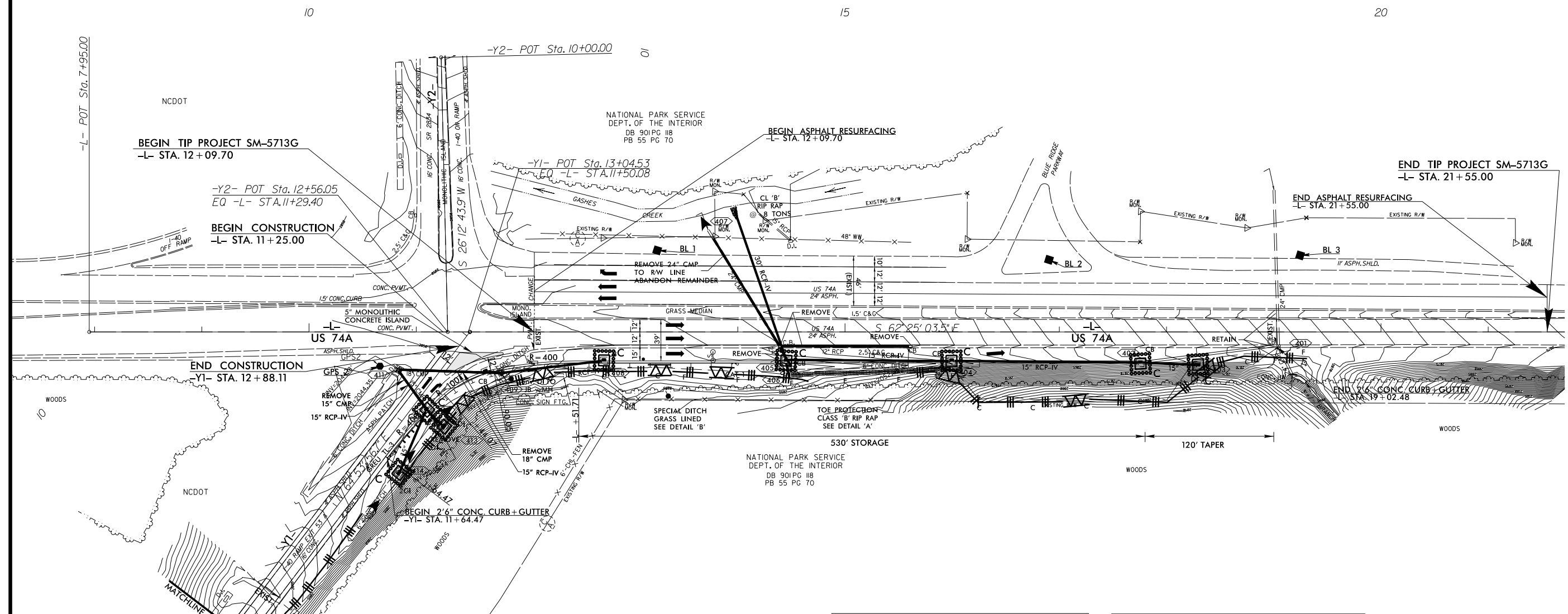
PROJECT REFERENCE NO.	SHEET NO.
SM-5713G	EC-5/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



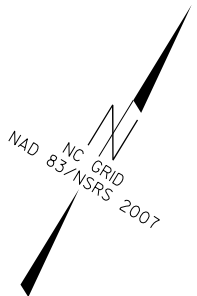
JOHN HOUSER
DB 5547 PG 327

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

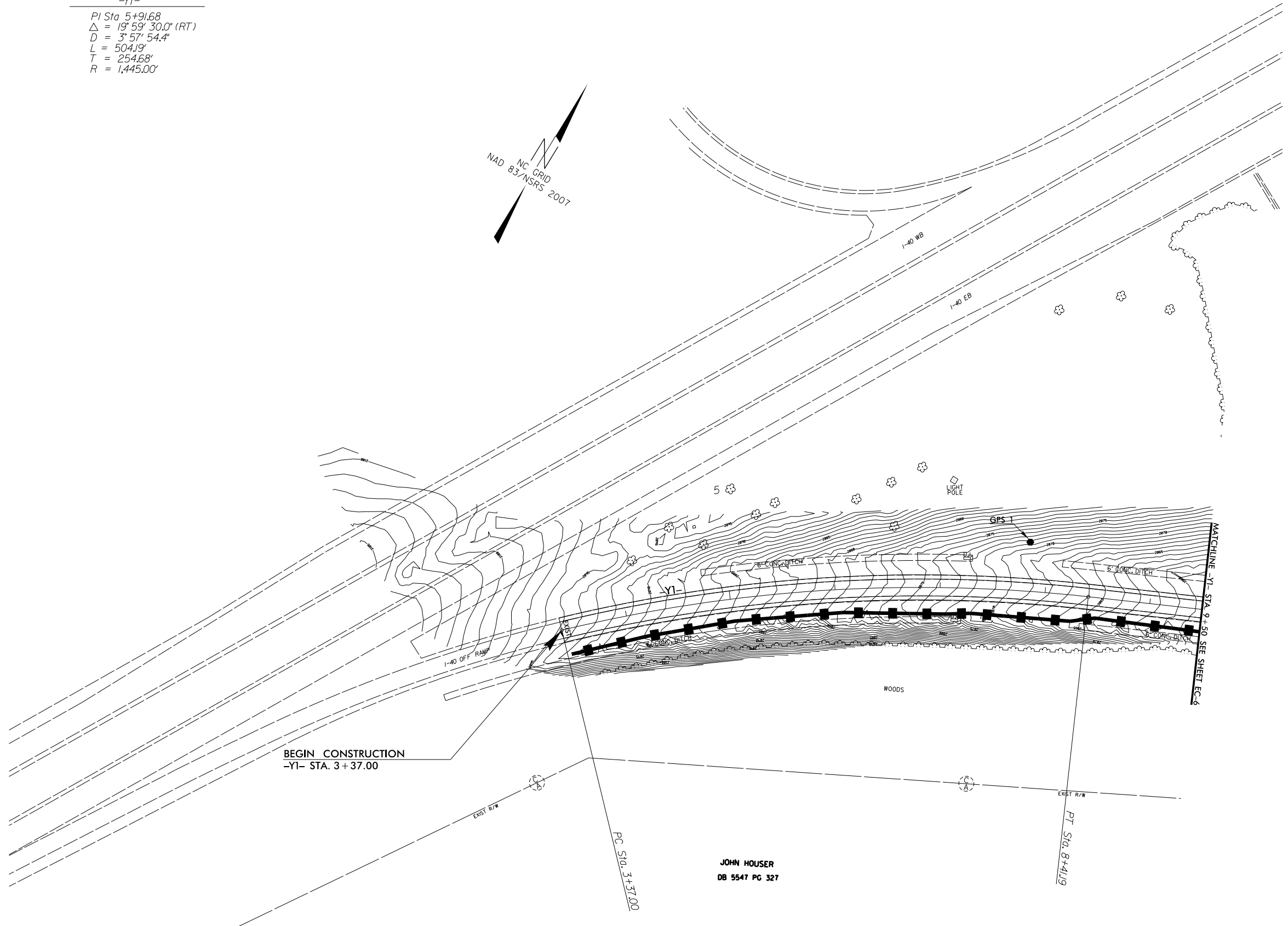
PROJECT REFERENCE NO. SM-5713G	SHEET NO. EC-6/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-Y1-
 PI Sta 5+91.68
 $\Delta = 19^{\circ} 59' 30.0''$ (RT)
 $D = 3^{\circ} 57' 54.4''$
 $L = 504.19'$
 $T = 254.68'$
 $R = 1,445.00'$



PROJECT REFERENCE NO.	SHEET NO.
SM-5713G	EC-7/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



BEGIN CONSTRUCTION
 -Y1- STA. 3+37.00

JOHN HOUSER
 DB 5547 PG 327

MATCHLINE -Y1- STA. 9+50 SEE SHEET EC-4

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
BUNCOMBE COUNTY**

LOCATION: I-40 EXIT 53A OFF-RAMP ACCELERATION LANE

<small>PROJECT REFERENCE NO.</small> SM-5713G	<small>SHEET NO.</small> SIGN-01
<small>APPROVED:</small> <small>DocuSigned by: Jose G. Martinez 647DB418C886461</small>	
<small>DATE:</small> 02/09/2023	
<small>SEAL</small> 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

T.I.P.: SM-5713G

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR 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:

<u>STD. NO.</u>	<u>TITLE</u>
901.10	TYPE 'A' SIGNS
901.20	TYPE 'B' SIGNS
901.50	ARROWS AND SHIELDS
901.70	SIGN STRINGERS AND SUPPORT SPACING
901.80	SIGN MOUNTING DETAILS - FOR TYPE A AND TYPE B SIGNS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

GENERAL NOTES

- . SIGNS FURNISHED BY STATE
- . CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . EXISTING SIGNS NOT SHOWN SHALL BE RETAINED IN PLACE.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE GRADE C REFLECTIVE SHEETING.
- . DO NOT BEGIN FABRICATION FOR TYPES A & B SIGNS MOUNTED ON OVERHEAD STRUCTURES OR STEEL SUPPORTS UNTIL "S" DIMENSIONS HAVE BEEN FIELD VERIFIED.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

SUMMARY OF QUANTITIES

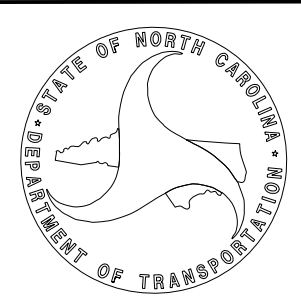
ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	310	L.F.
4082000000	903	SUPPORTS, WOOD	34	L.F.
4096000000	904	SIGN ERECTION, TYPE D	1	EA.
4102000000	904	SIGN ERECTION, TYPE E	13	EA.
4108000000	904	SIGN ERECTION, TYPE F	2	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE B (GROUND MOUNTED)	1	EA.
4141000000	907	DISPOSAL OF SUPPORT, WOOD	2	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	7	EA.
4238000000	907	DISPOSAL OF SIGN, D, E OR F	1	EA.



INDEX

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
SIGN-1	TITLE SHEET
SIGN-2	SUPPORT INFORMATION
SIGN-3	E AND F SHEETS
SIGN-4	SIGN DESIGNS
SIGN-5-6	SIGNING PLAN SHEETS

PLAN PREPARED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

K.L. JORDAN SIGNING & DELINEATION REGIONAL ENGINEER
J.G. MARTINEZ, PE SIGNING & DELINEATION PROJECT DESIGN ENGINEER



PROJECT REFERENCE NO. SM-5713G	SHEET NO. SIGN-02
APPROVED:  4470B418C886461	
DATE: 02/09/2023	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

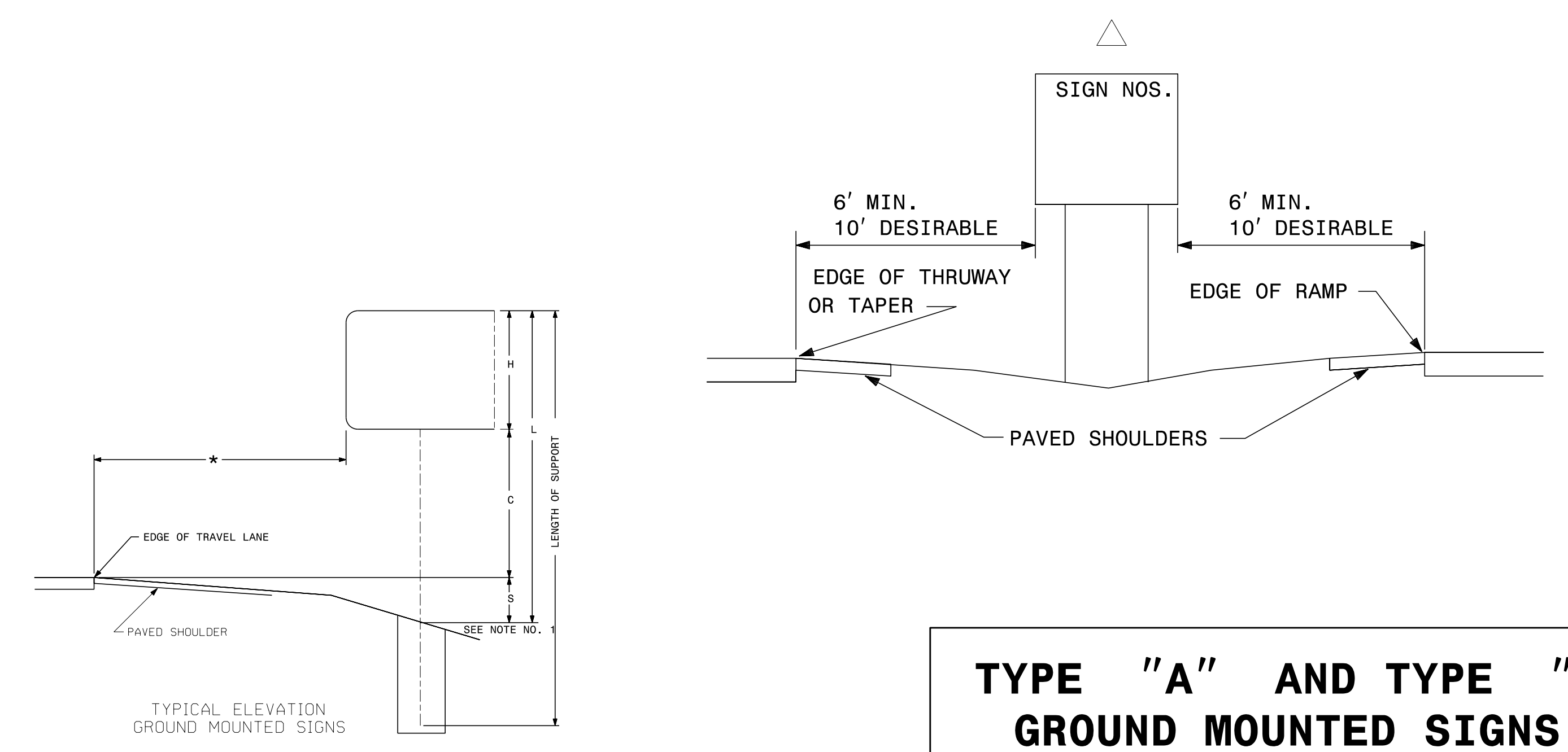
NUMBER	SIGN TYPE	SIGN SIZE (in.)			ROADWAY STATION	NUMBER OF SUPPORTS	BEAM SECTION	SUPPORT TYPE BA or S	ATTACHMENT METHOD	MOUNTING METHOD	HORIZONTAL CLEARANCE* (ft.)	SUPPORT SPACING	LENGTH (ft)			LEFT SUPPORT (ft)			CENTER SUPPORT (ft)			RIGHT SUPPORT (ft)			WOOD SUPPORT (LF)	FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)
		w	x	h									SNS HT	MTG HT	EMBED-MENT	S	L	LENGTH	S	L	LENGTH	S	L	LENGTH		
		H	C	MENT									S	L	LENGTH	S	L	LENGTH	S	L	LENGTH					
901	B	96	x	42	Sta 19+10+/-	2	4in x 6in	BA	N/A	N/A	6.00	4.69	3.50	7.00	4.50	1.00	11.50	16.00	0.00	0.00	0.00	2.00	12.50	17.00	33.00	_____

TOTAL
33.00

USE: 34.00

NOTES

- DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF TRAVEL LANE.
- FIELD VERIFICATIONS SHALL BE REQUIRED FOR ALL SUPPORTS, SEE (*) ARTICLE 903-3. FABRICATORS SHALL BE AISC CERTIFIED IN CATEGORY 1, SEE (*) ARTICLE 1072-1. (*) = N.C.D.O.T. STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES
- PLAN LOCATIONS FOR EXISTING UTILITIES ARE BASED ON THE BEST AVAILABLE INFORMATION AND, THEREFORE MAY NOT BE PRECISELY ACCURATE. THEREFORE, IT IS INCUMBENT UPON THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF UTILITIES BEFORE BEGINNING WORK IN A LOCATION.



**TYPE "A" AND TYPE "B"
GROUND MOUNTED SIGNS**

02/09/23 U:\Projects\2022 Sign Designs\Div 13\SM-5713G\SM-5713G_Signing.dgn Jserf.comartinez

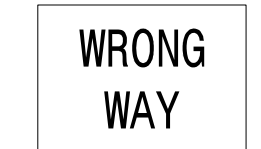
401 QUANTITY REQ'D 2



54 X 18
R6-1 (R)

TWO "U" POSTS PER SIGN

406 QUANTITY REQ'D 2



42 X 30
R5-1a

TWO "U" POSTS PER SIGN

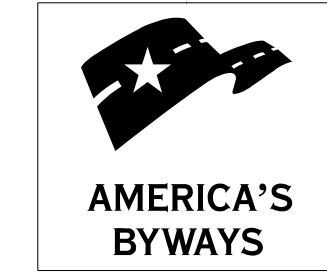
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54 X 18
R6-1 (L)

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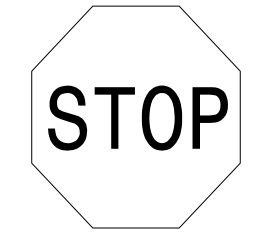
407 QUANTITY REQ'D 1



24 X 24
D6-4

ONE "U" POST PER SIGN

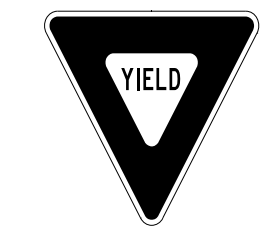
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36 X 36
R1-1

ONE "U" POST PER SIGN

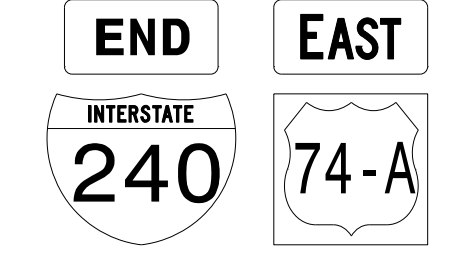
408 QUANTITY REQ'D 1



36 X 36 X 36
R1-2

ONE "U" POST PER SIGN

501



2-24 X 12
2-30 X 24

TWO "U" POSTS

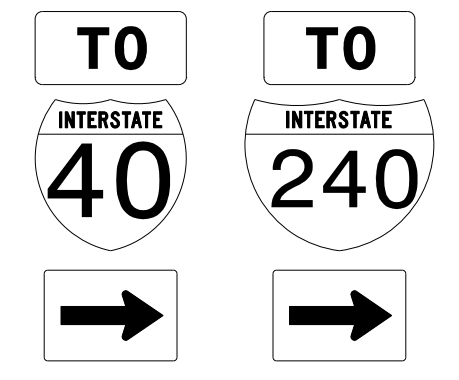
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24 X 24
R3-2

MOUNT BELOW SIGN 403
IN 2 INSTALLATIONS

502



2-24 X 12
24 X 24
30 X 24
2-21 X 15

MOUNT BELOW SIGN 302
IN 1 INSTALLATIONS

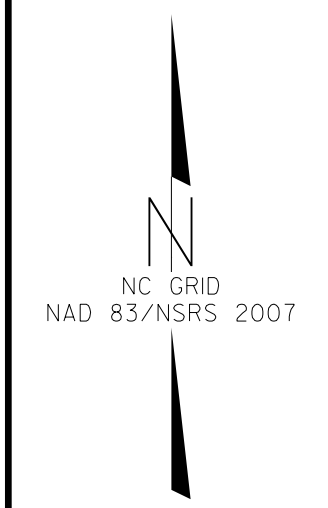
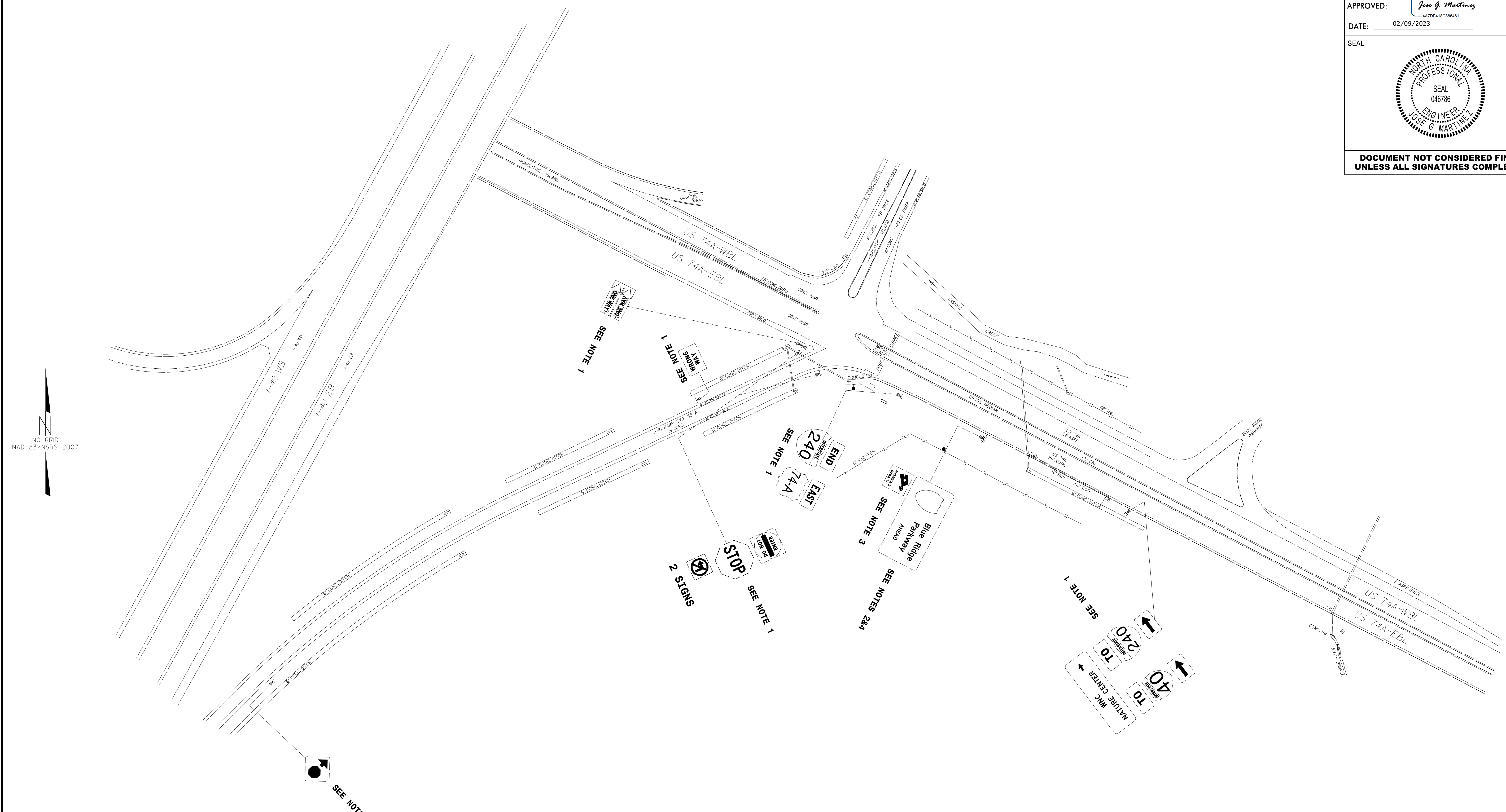
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36 X 36
R5-1

MOUNT BEHIND SIGN 403
IN 2 INSTALLATIONS

TYPE "E" & "F" SIGNS



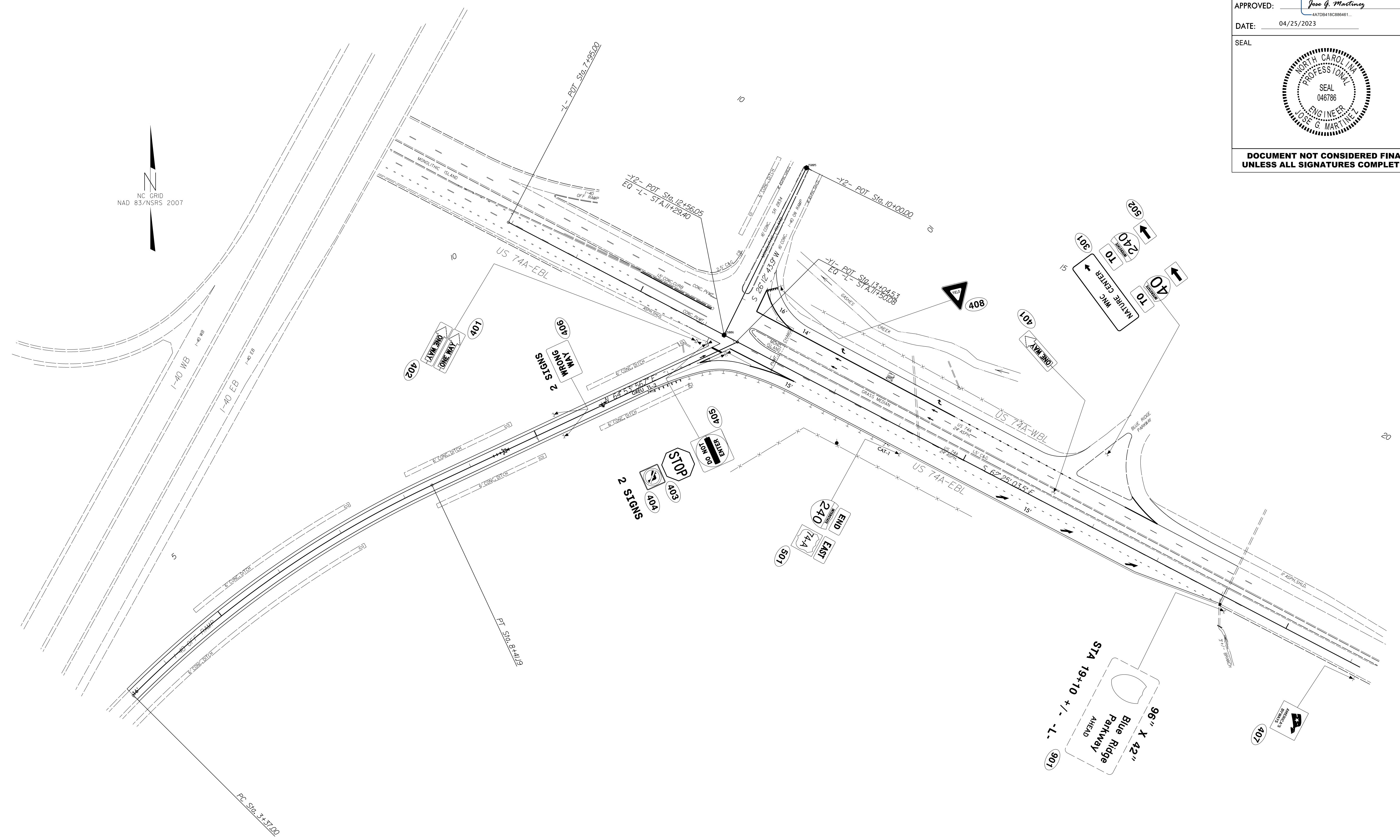
PROJECT NOTES

- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 2 RELOCATE SIGN, TYPE B (GROUND MOUNTED)
- 3 DISPOSAL OF SIGN, D, E OR F
- 4 DISPOSAL OF SUPPORT, WOOD

NOTE: EXISTING SIGNS NOT SHOWN SHALL BE RETAINED IN PLACE

EXISTING SIGNS

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04/25/23
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 User: jmartinez

PROPOSED SIGNS

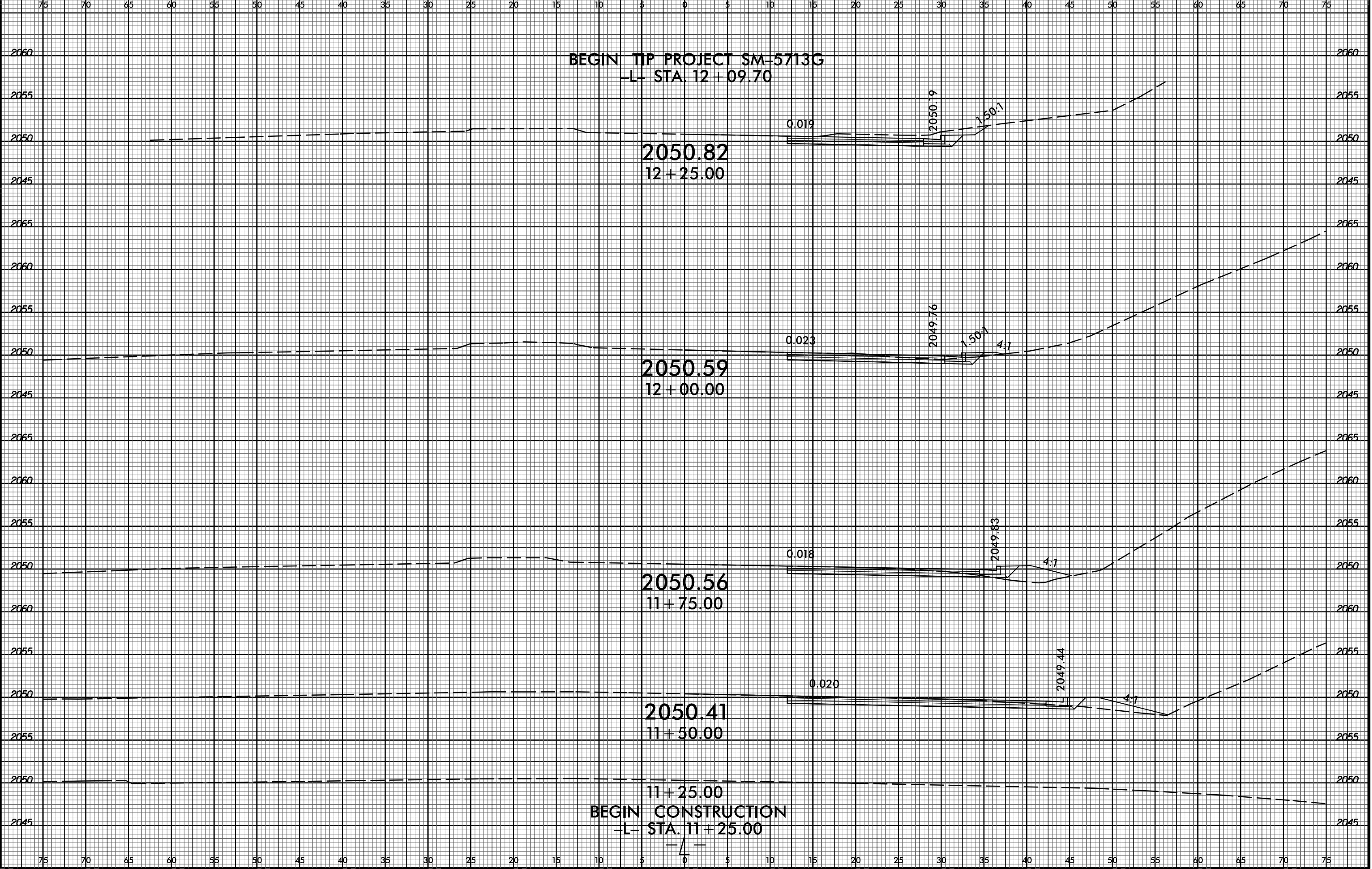
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

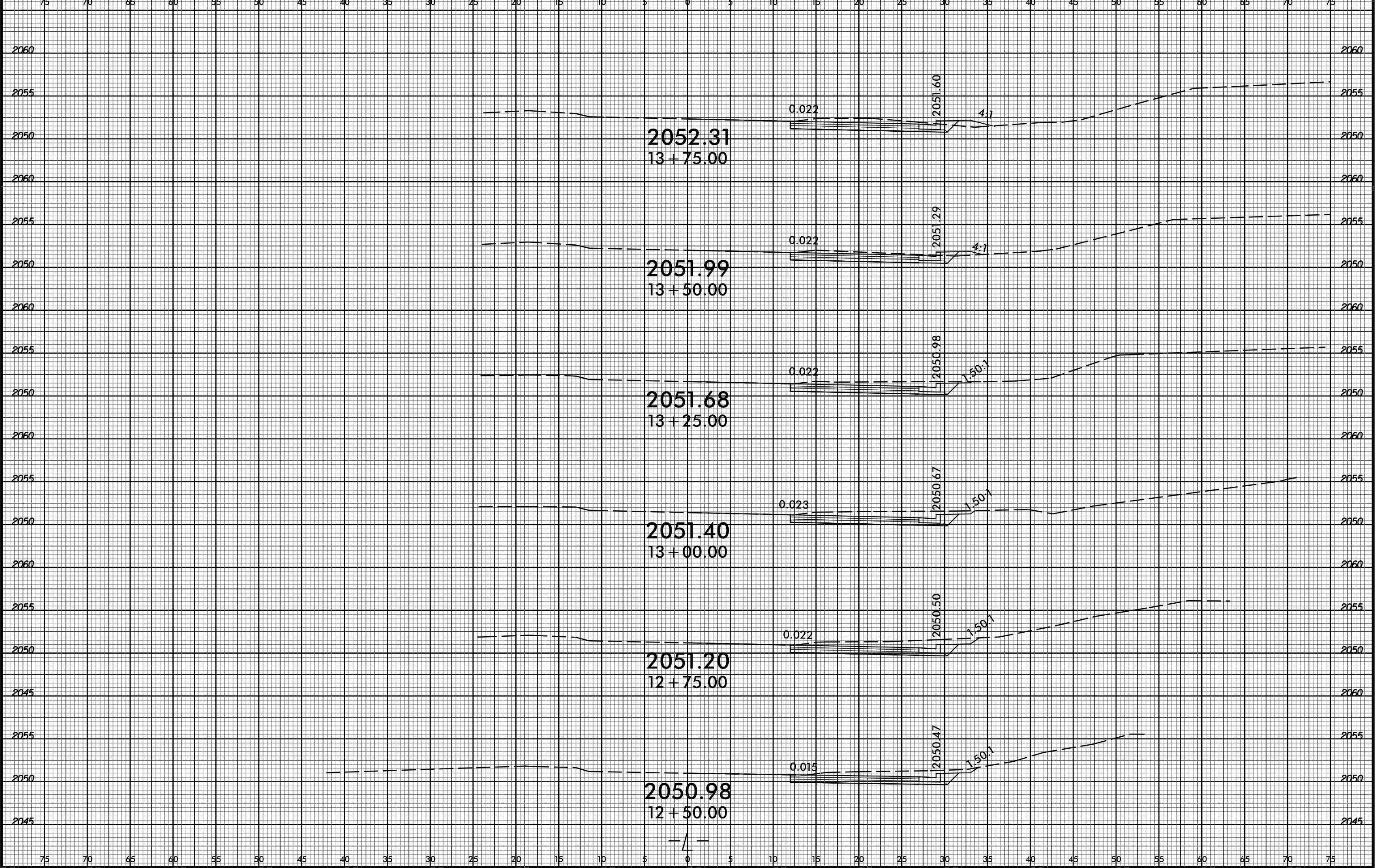
CROSS SECTION INDEX OF SHEETS		
	CROSS-SECTION SUMMARY	X-B
-L-	11+25.00 TO 21+55.00	X-1 THRU X-13
-Y1-	3+37.00 TO 12+88.11	X-12 THRU X-23

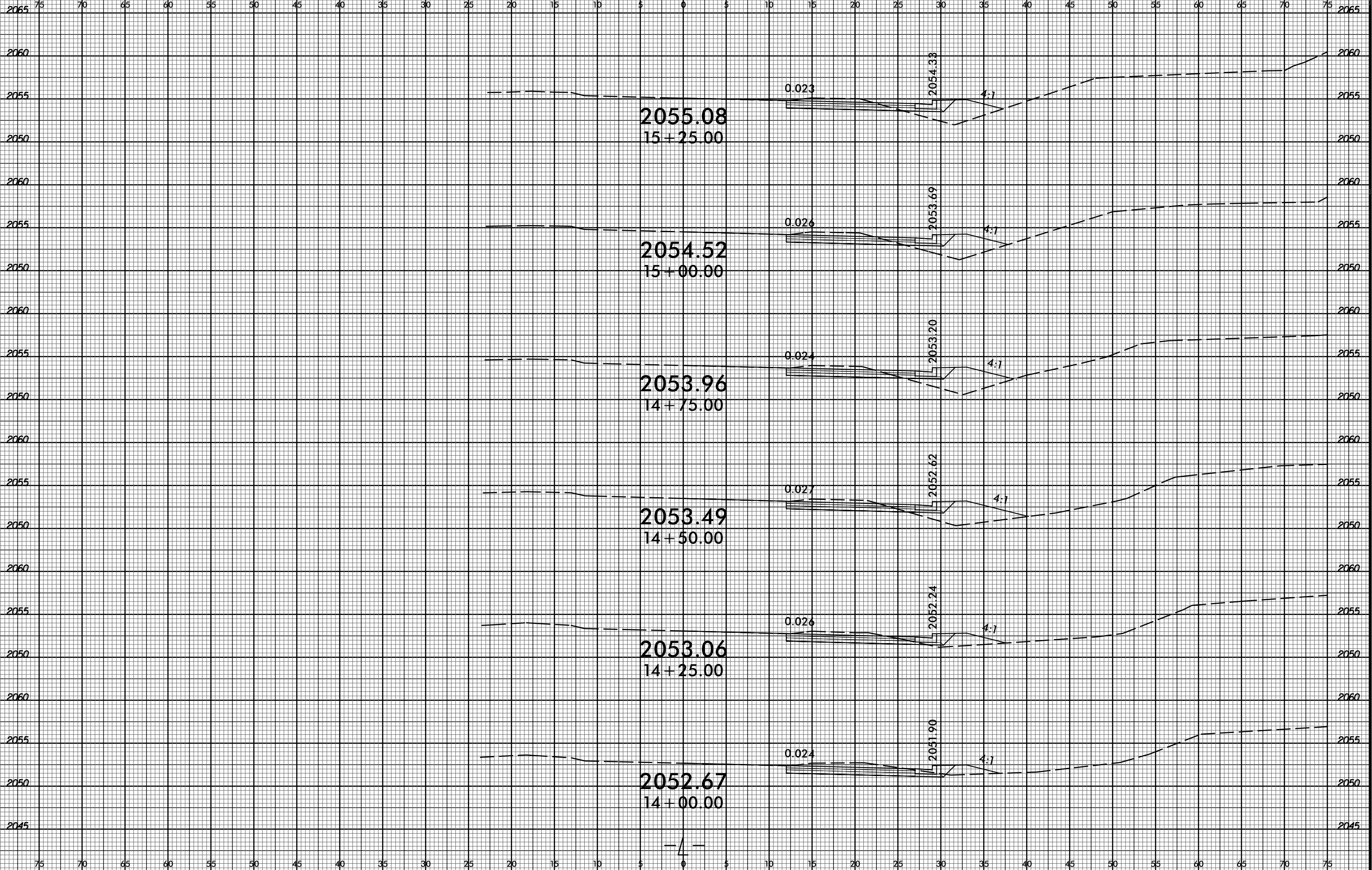
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6/23/16
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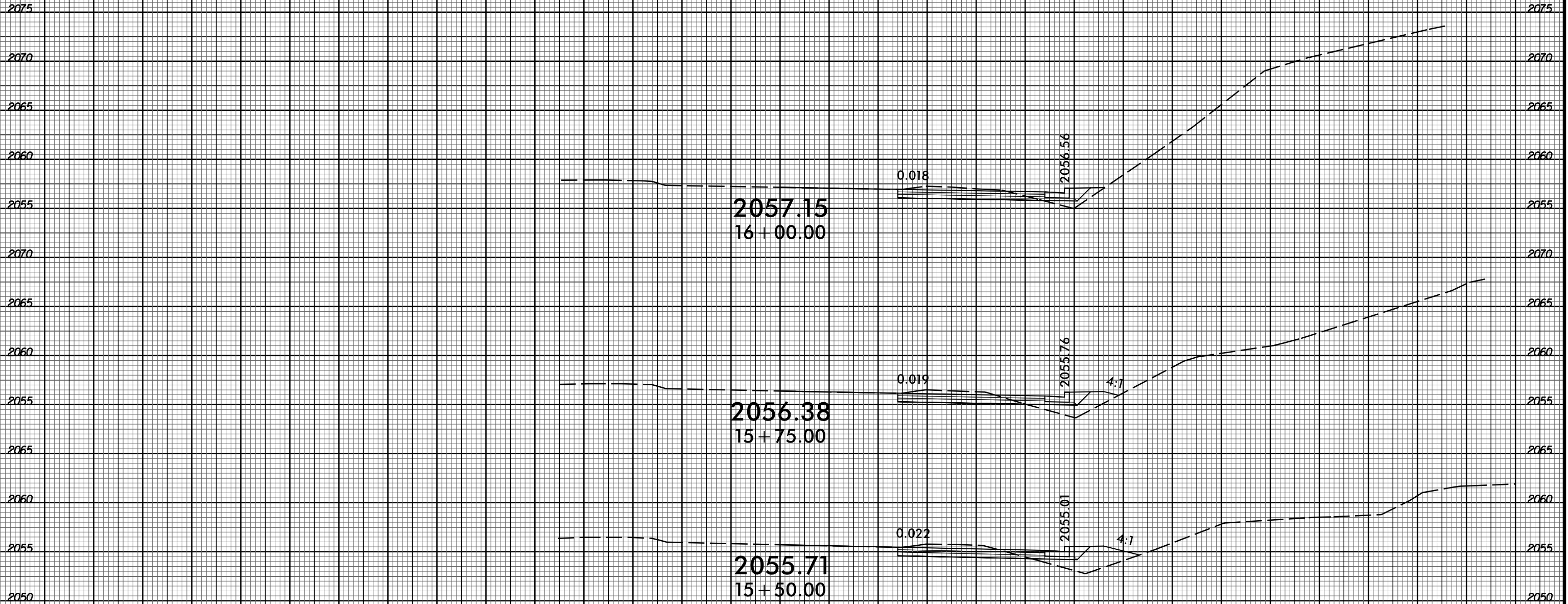




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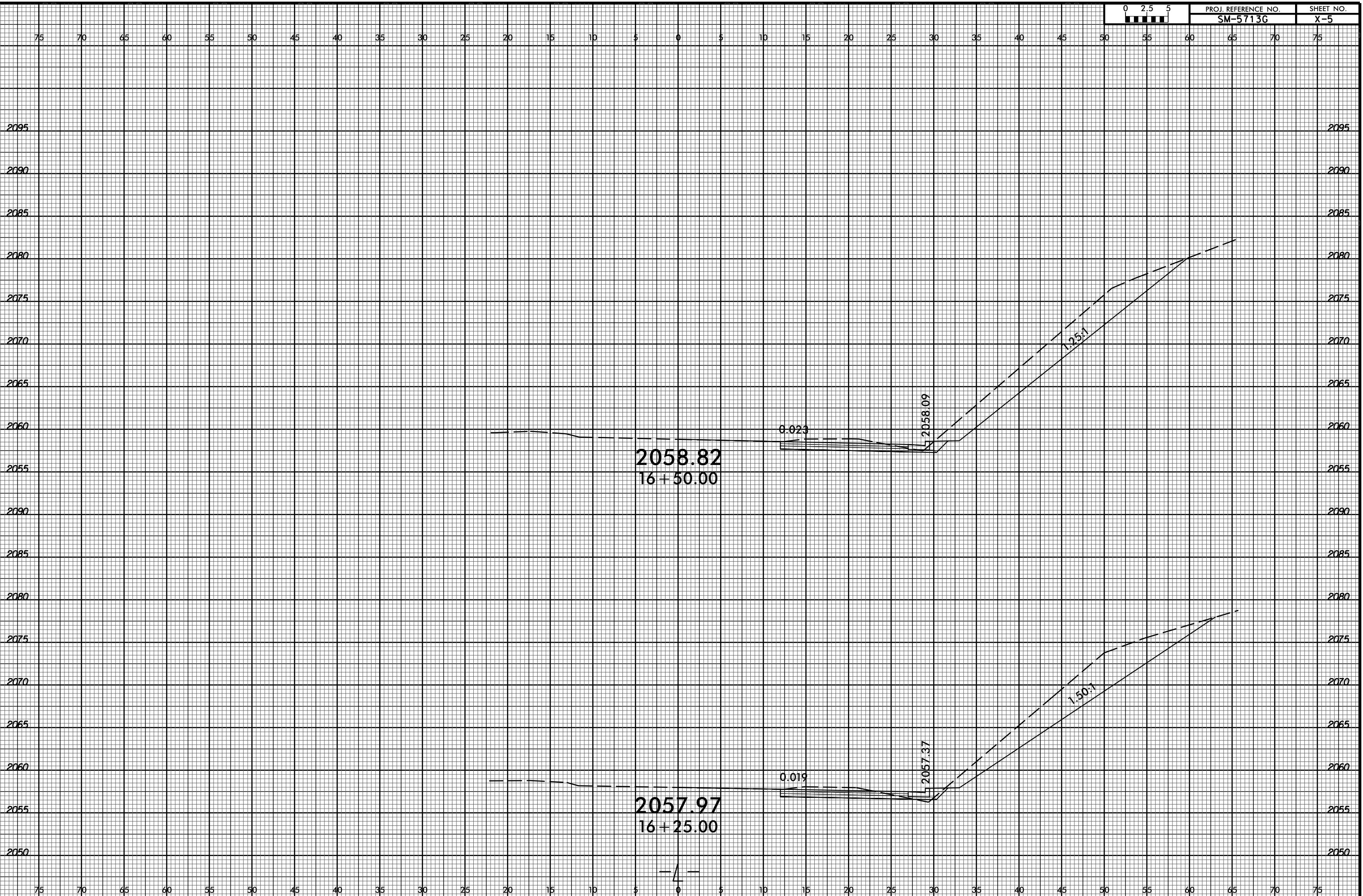
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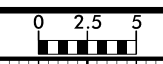
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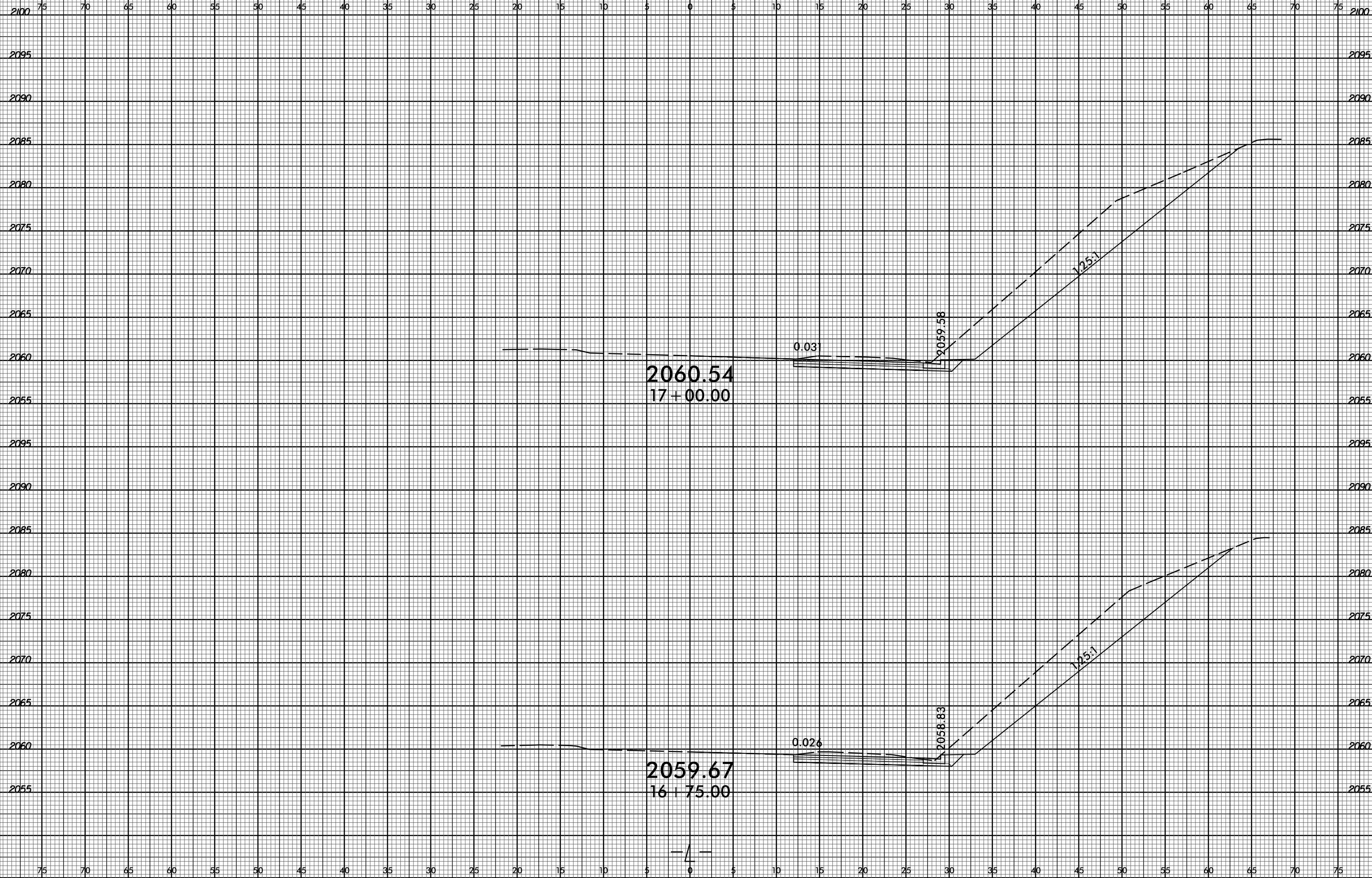
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6/23/16

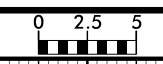


PROJ. REFERENCE NO.	SHEET NO.
SM-5713G	X-6



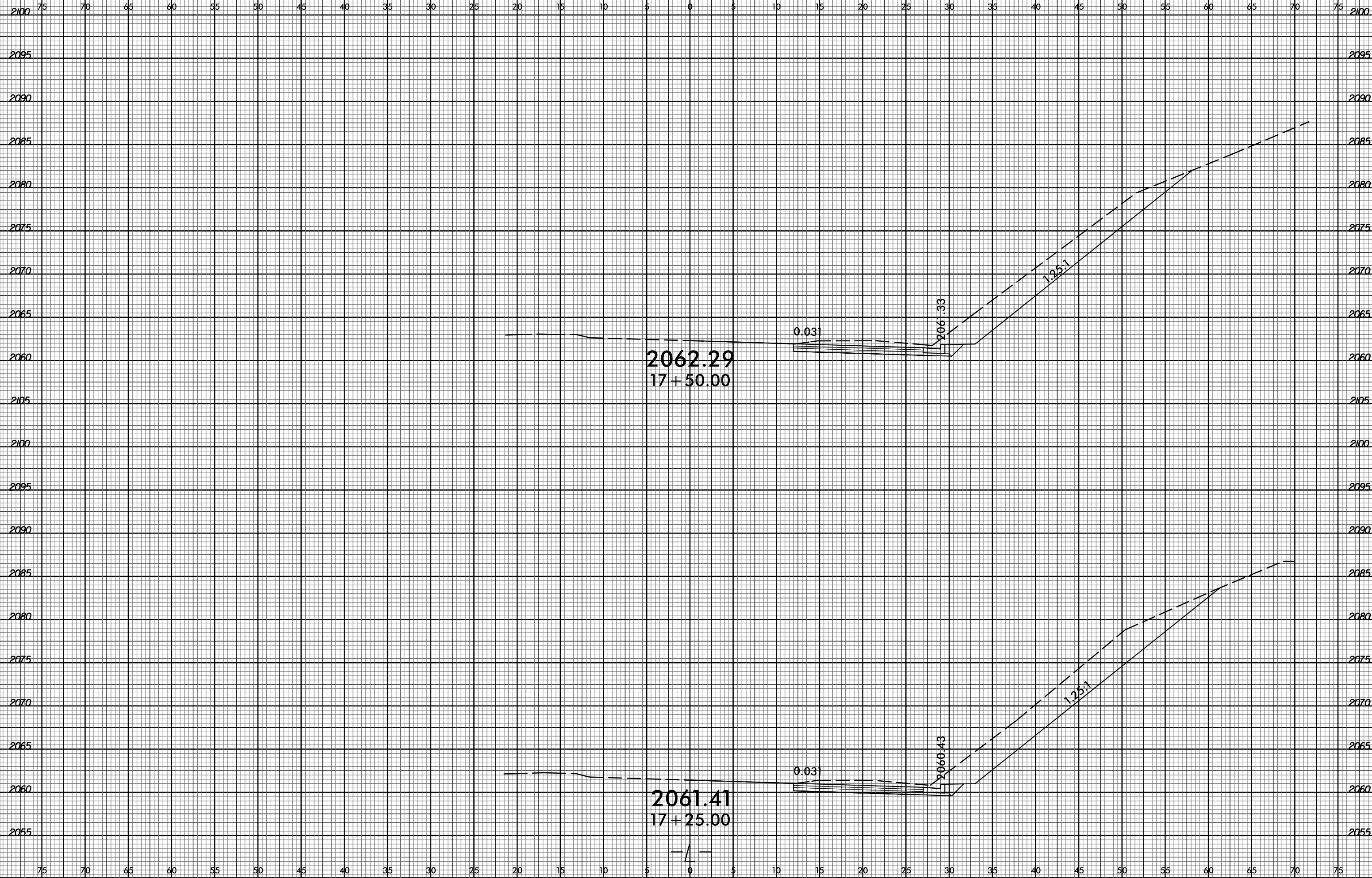
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6/23/16



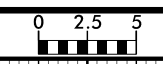
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SM-5713G

SHEET NO.
X-7



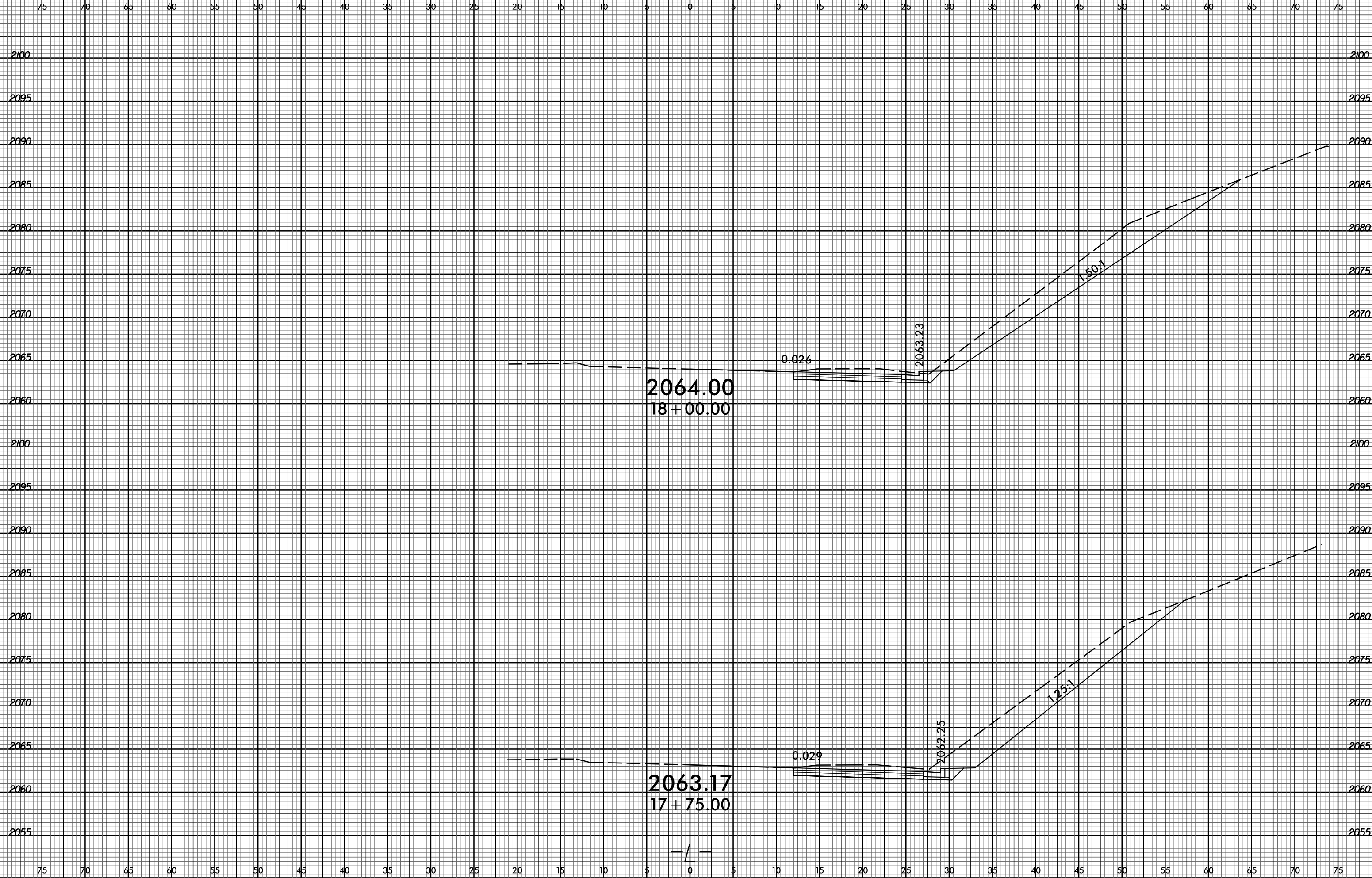
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6/23/16



PROJ. REFERENCE NO.
SM-5713G

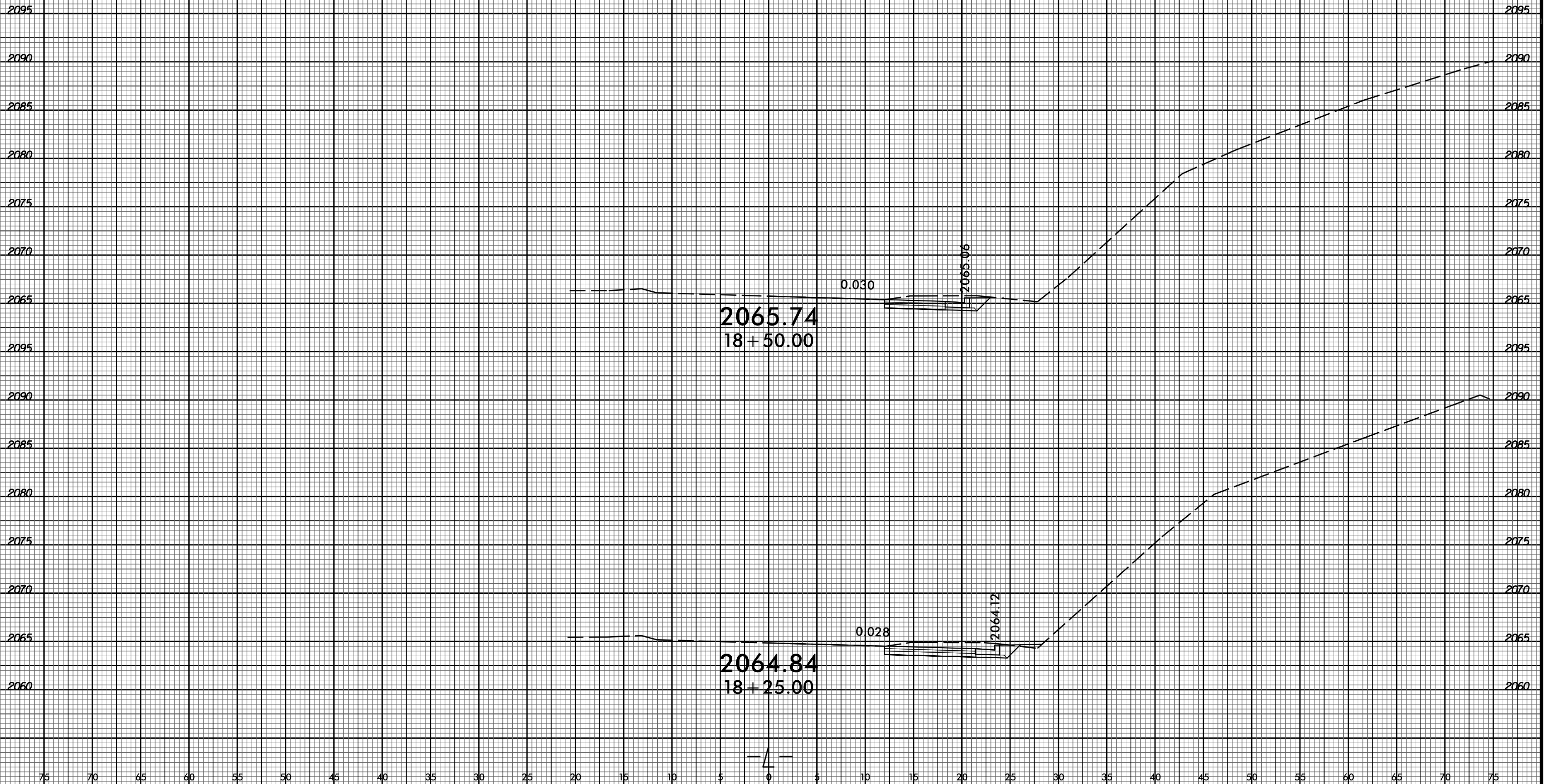
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X-8



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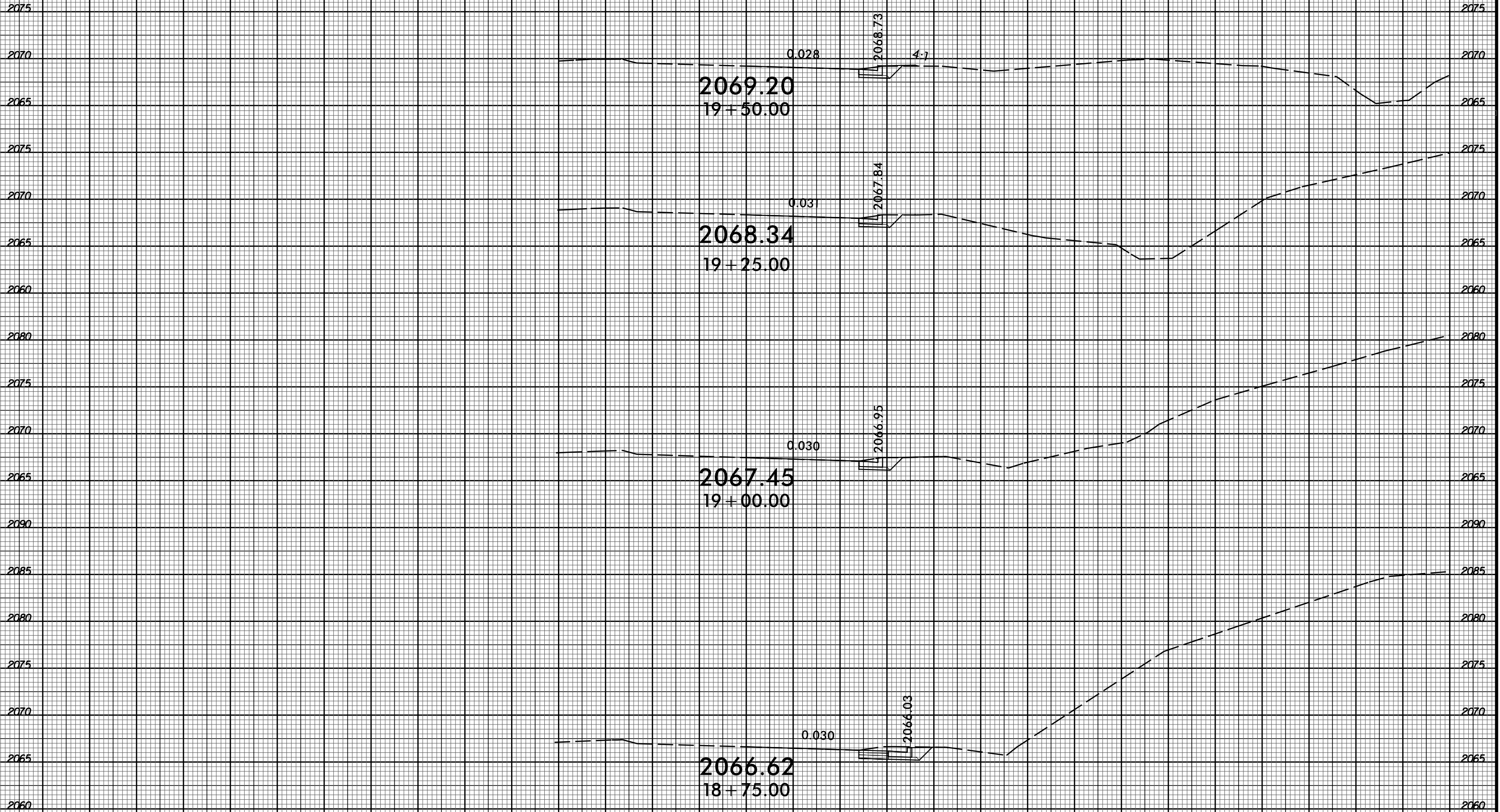
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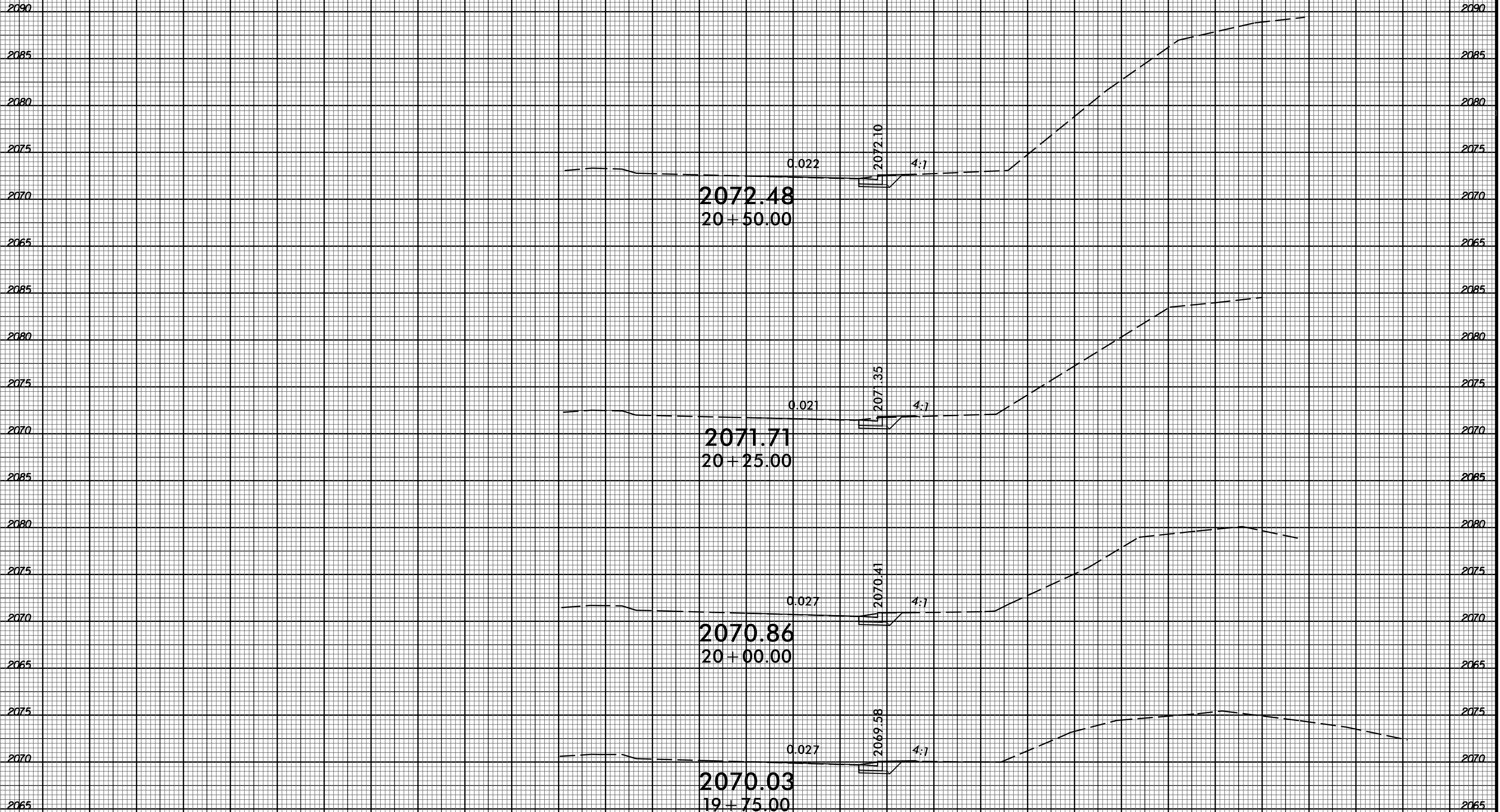
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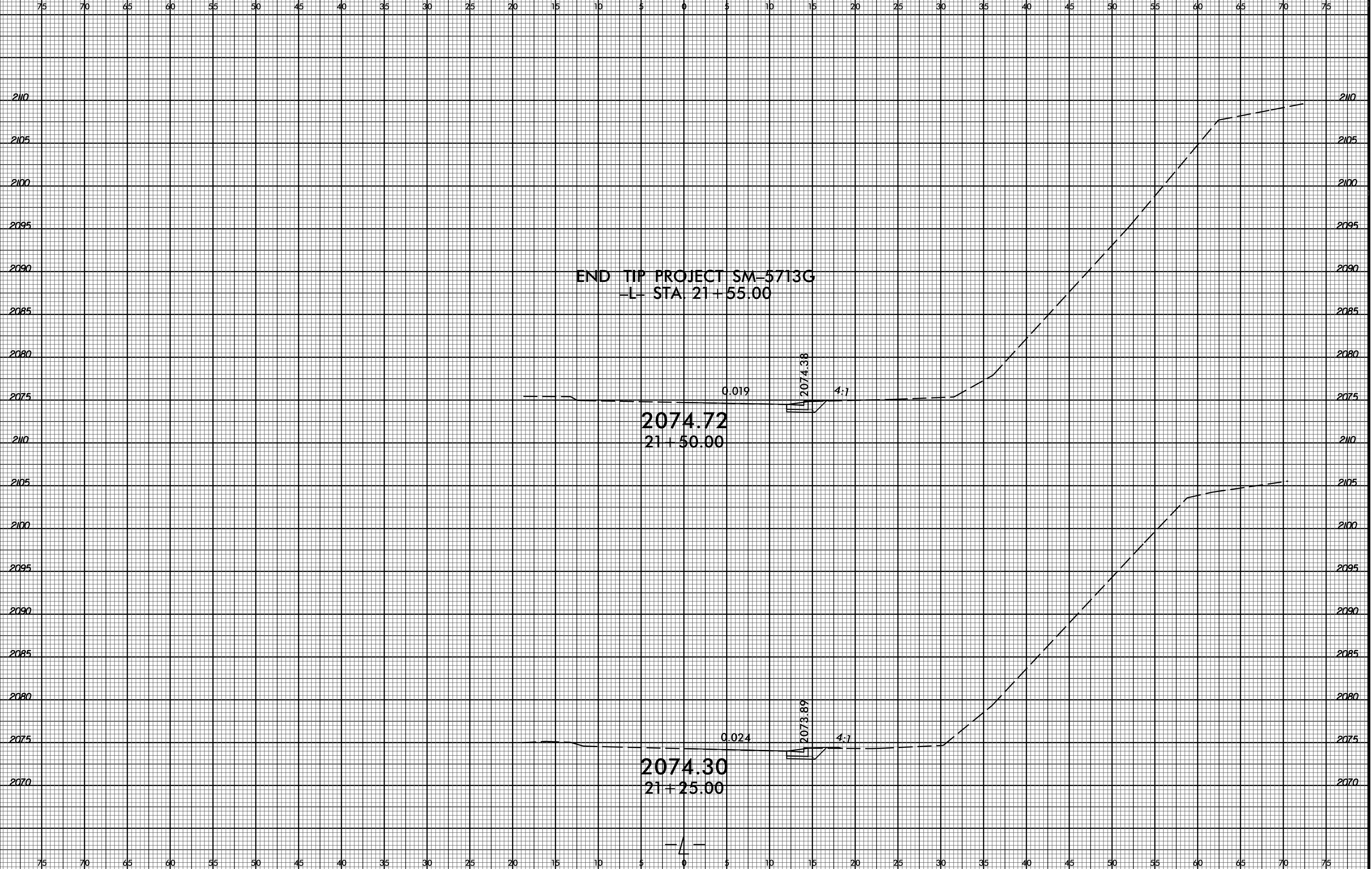
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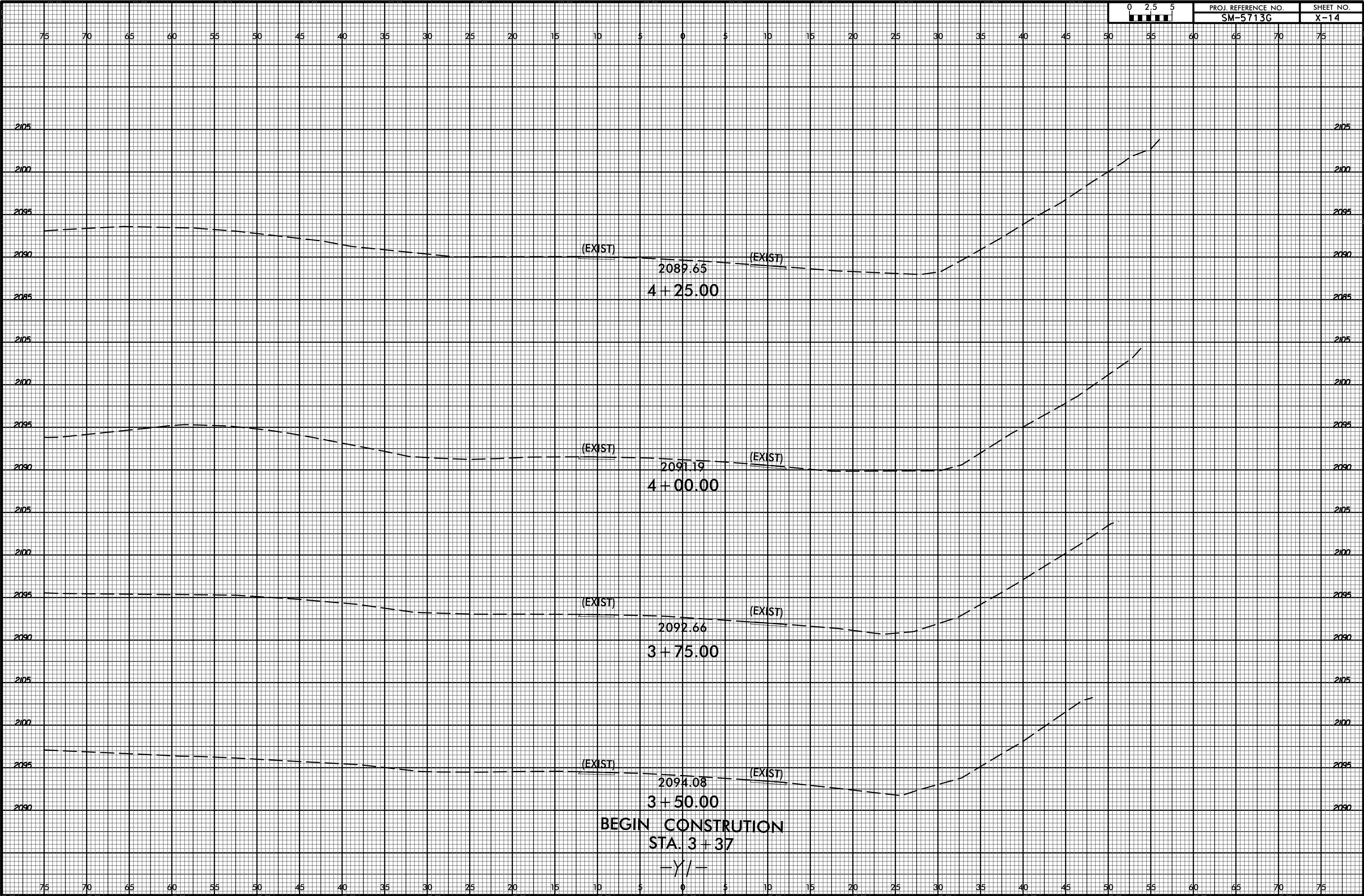


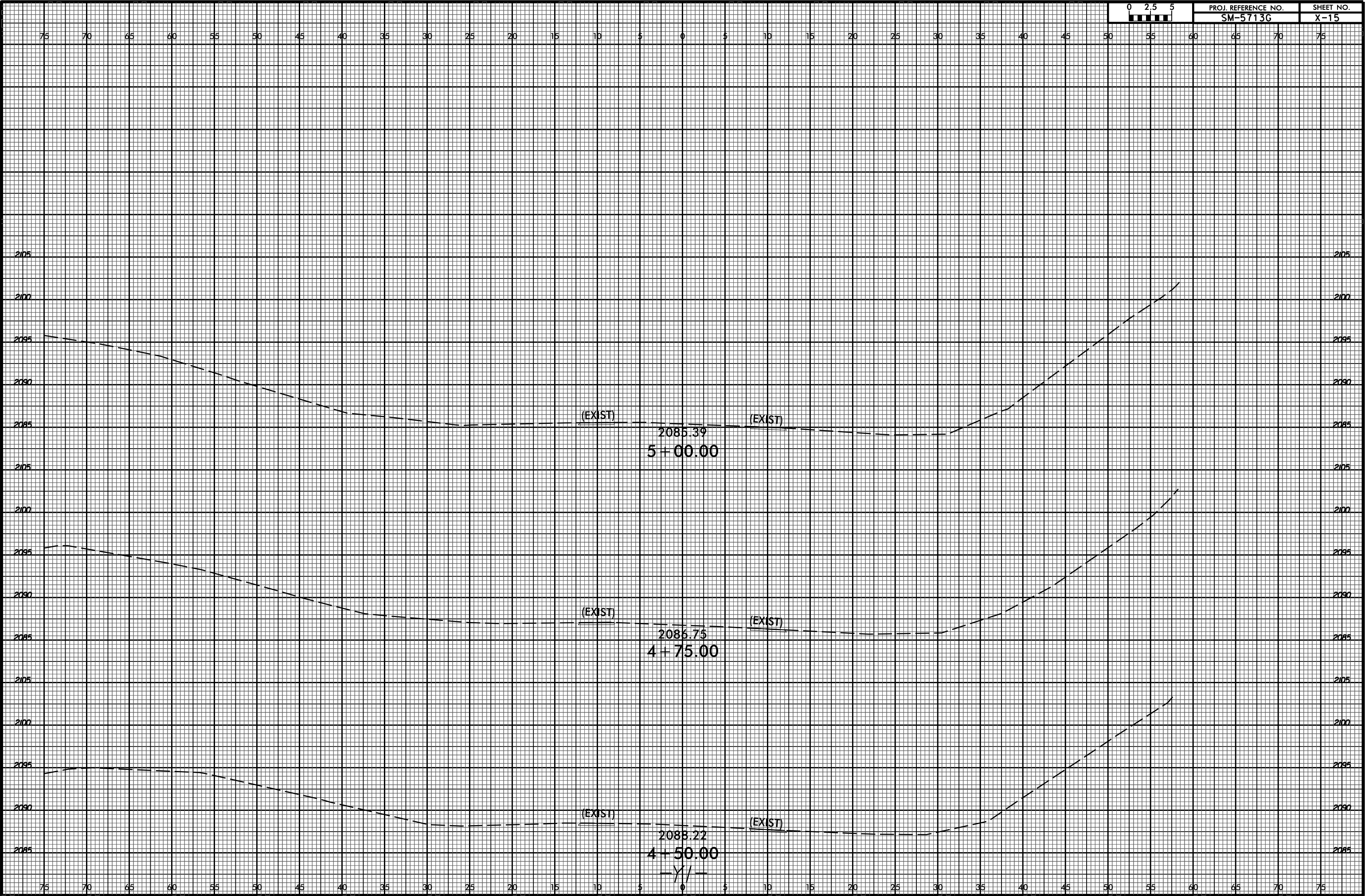
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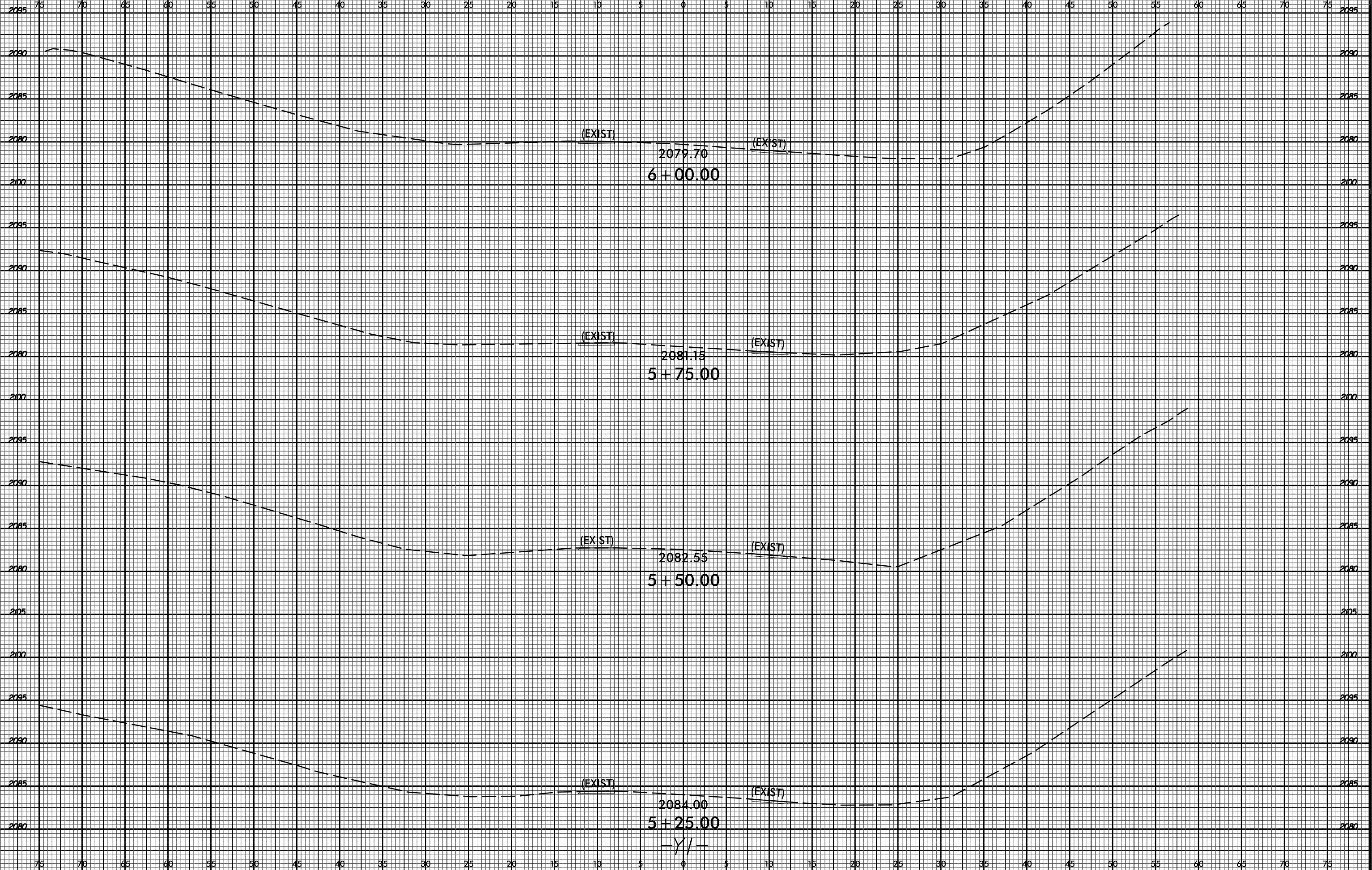


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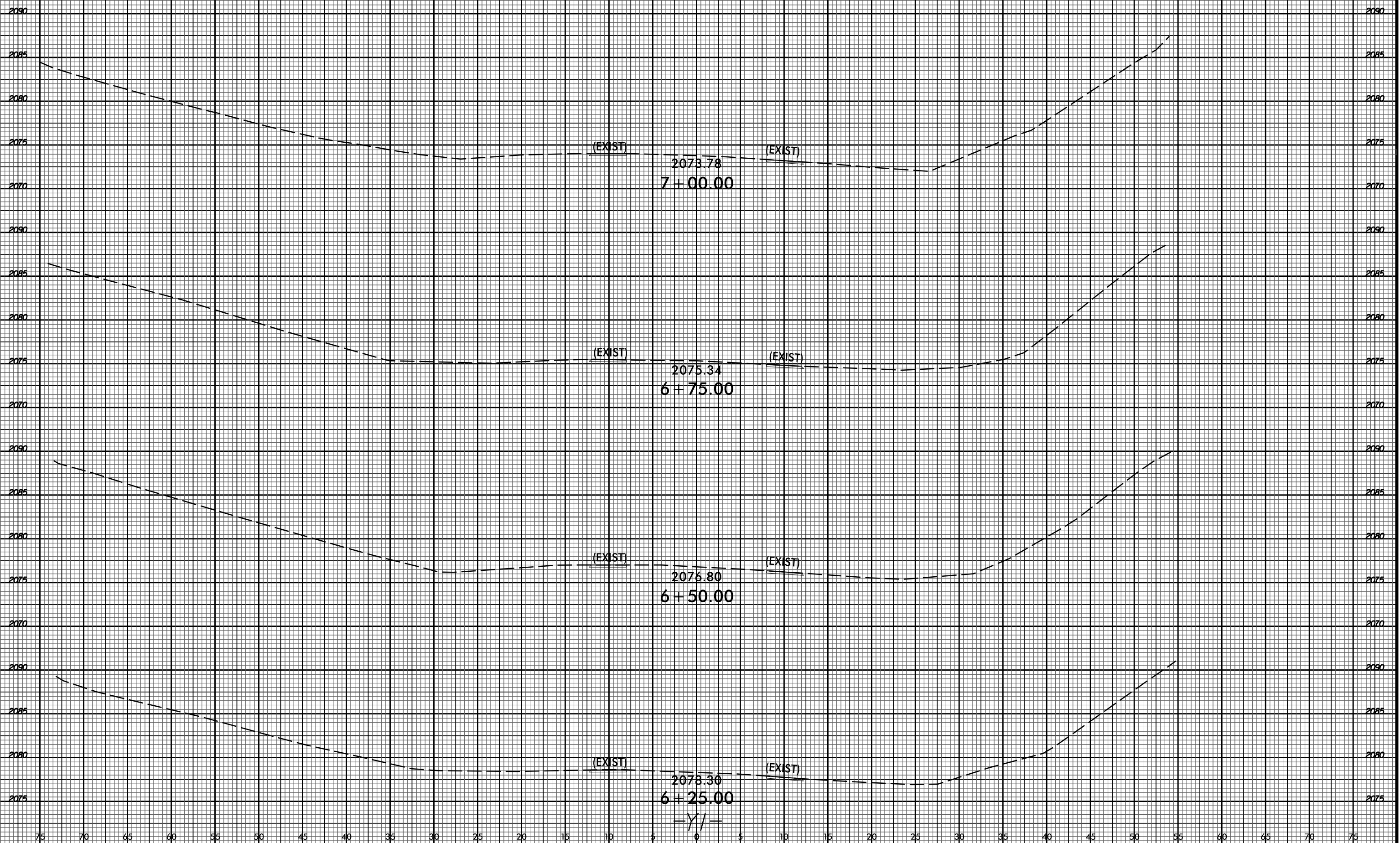






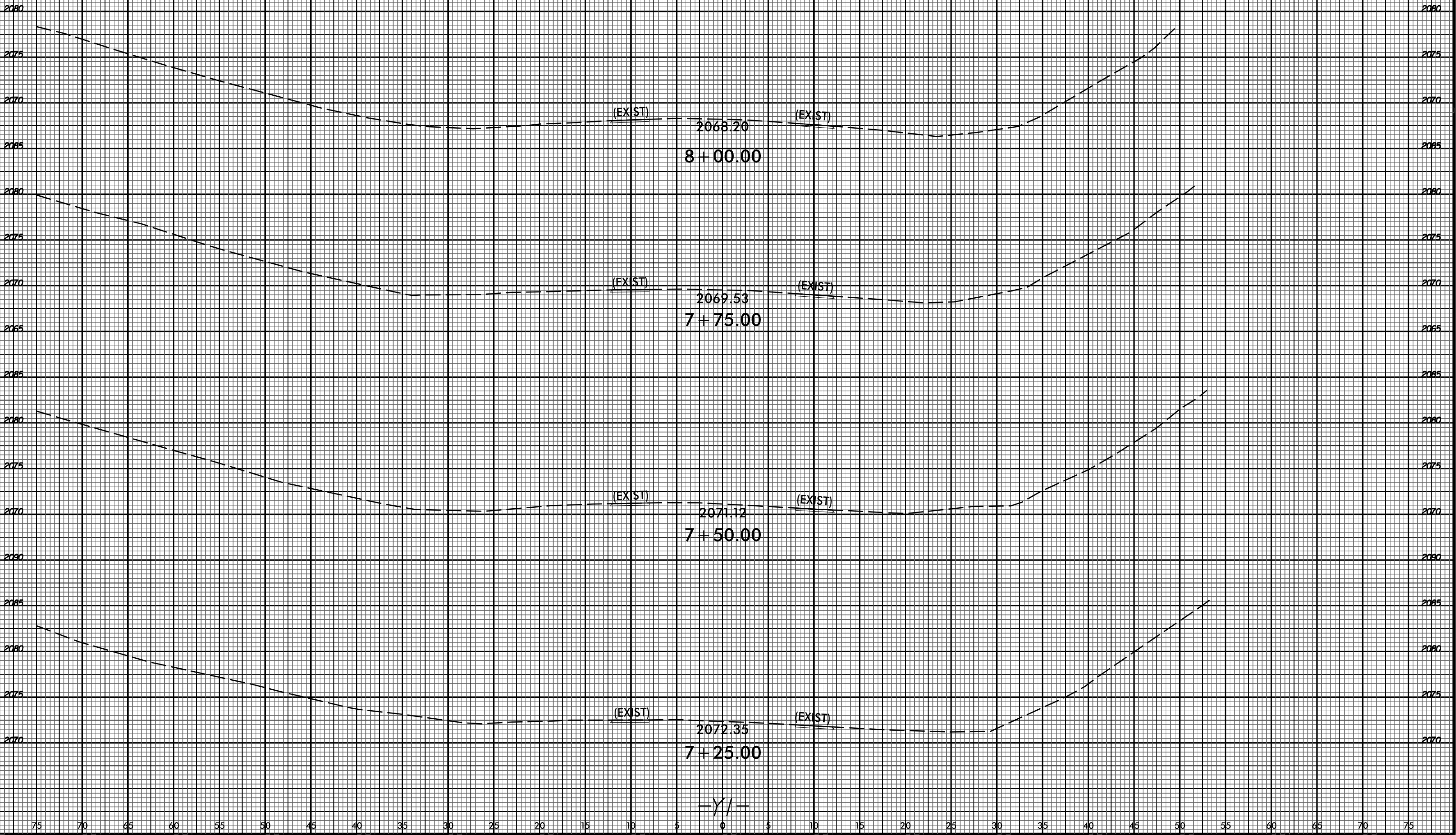


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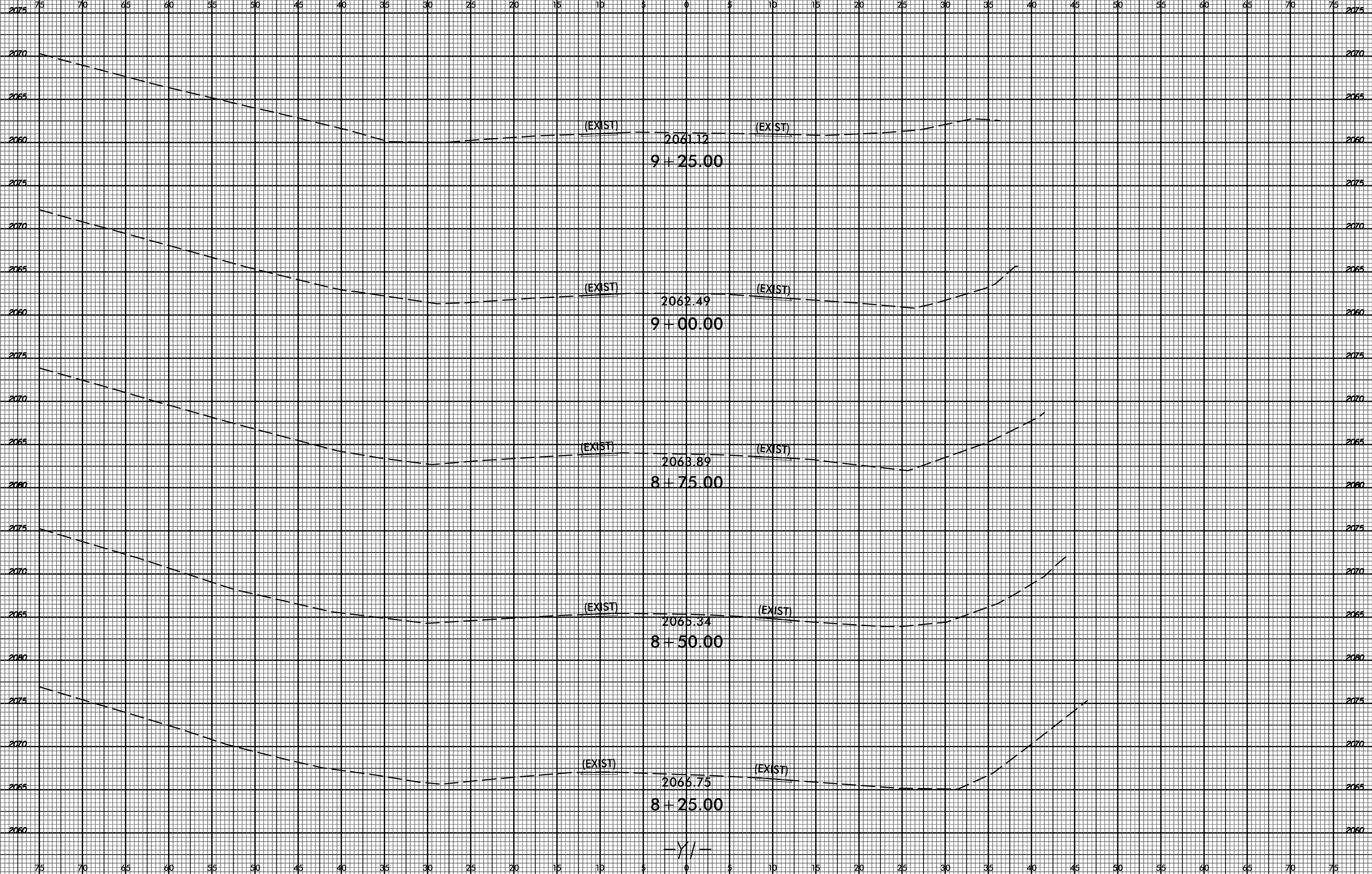




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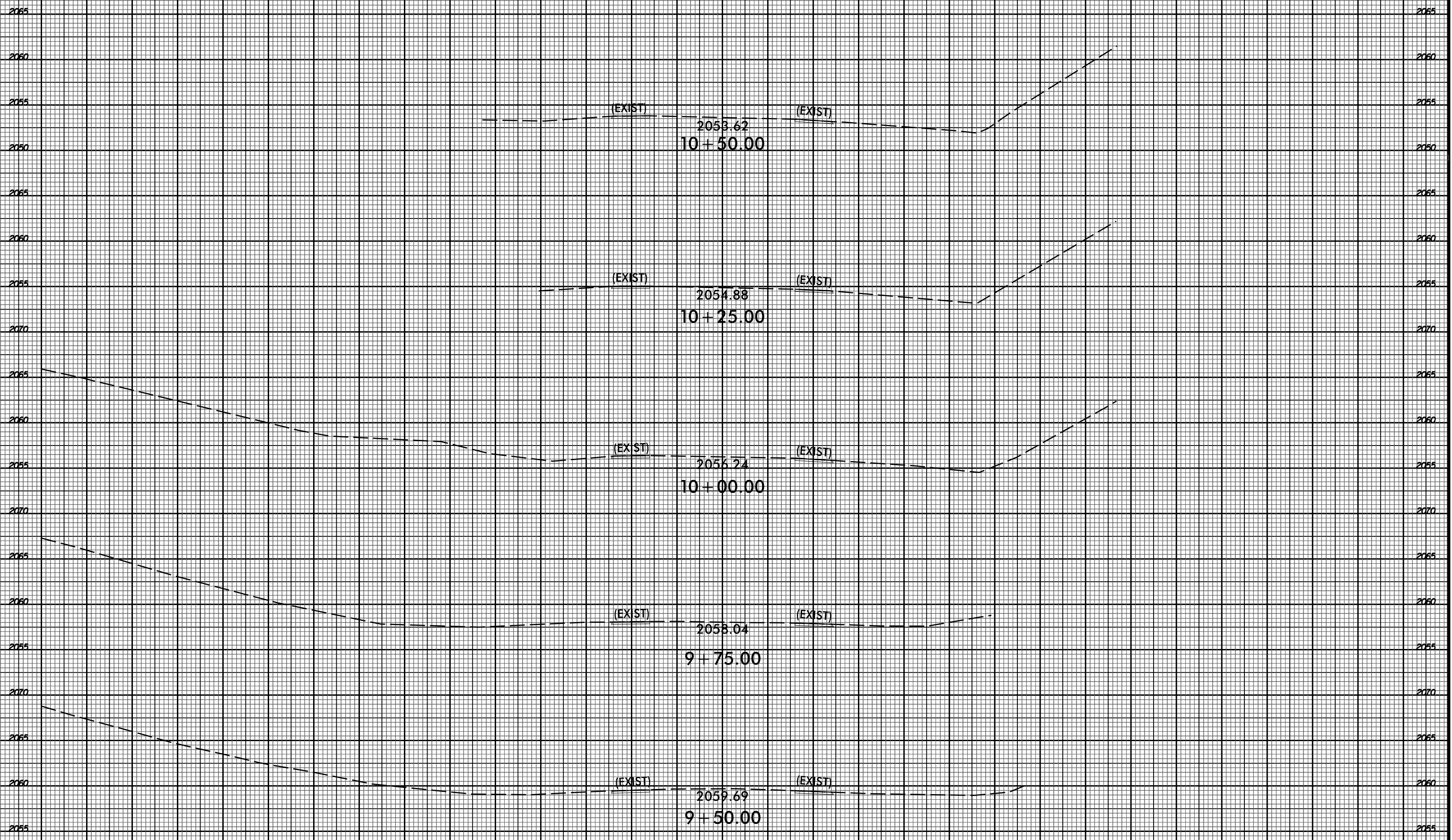


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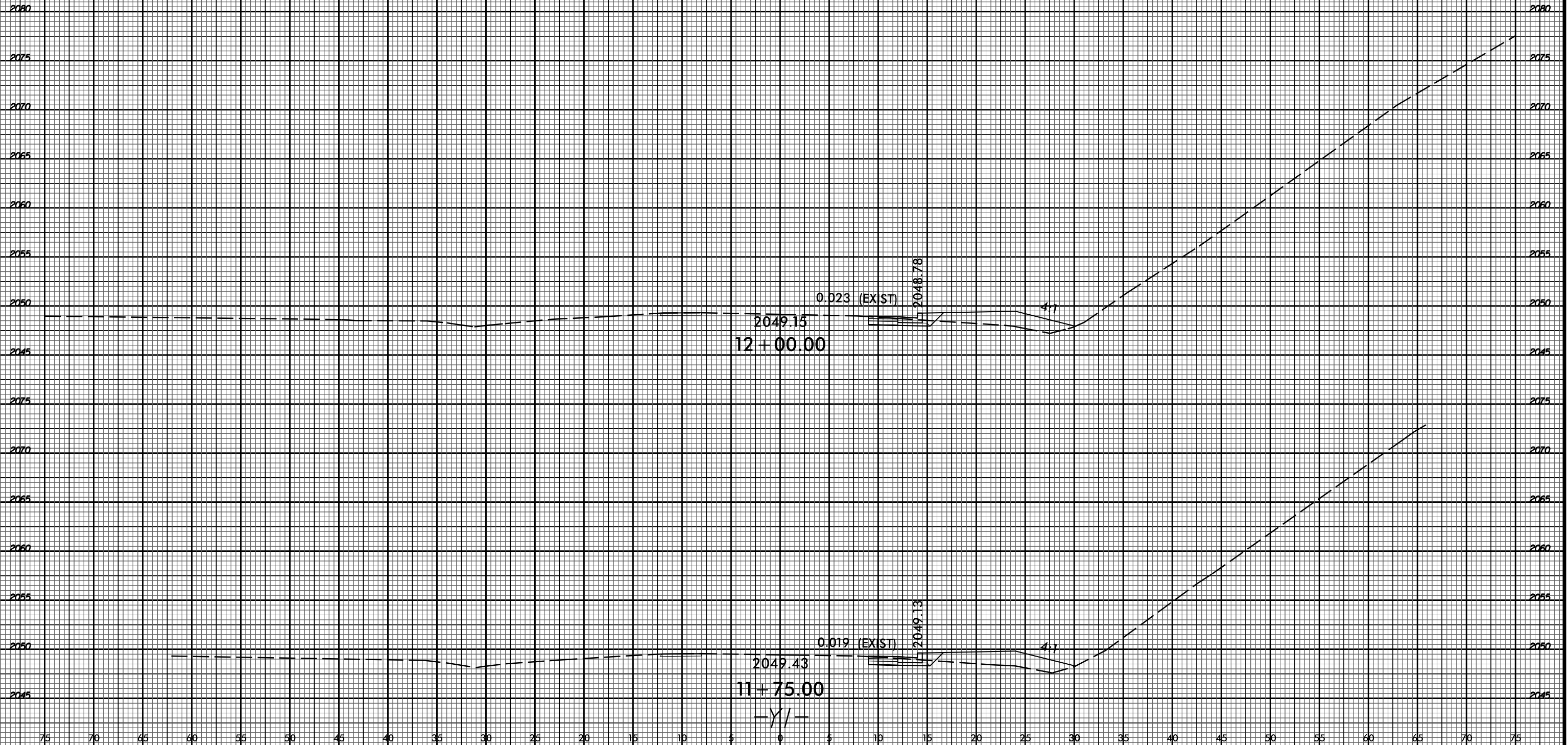
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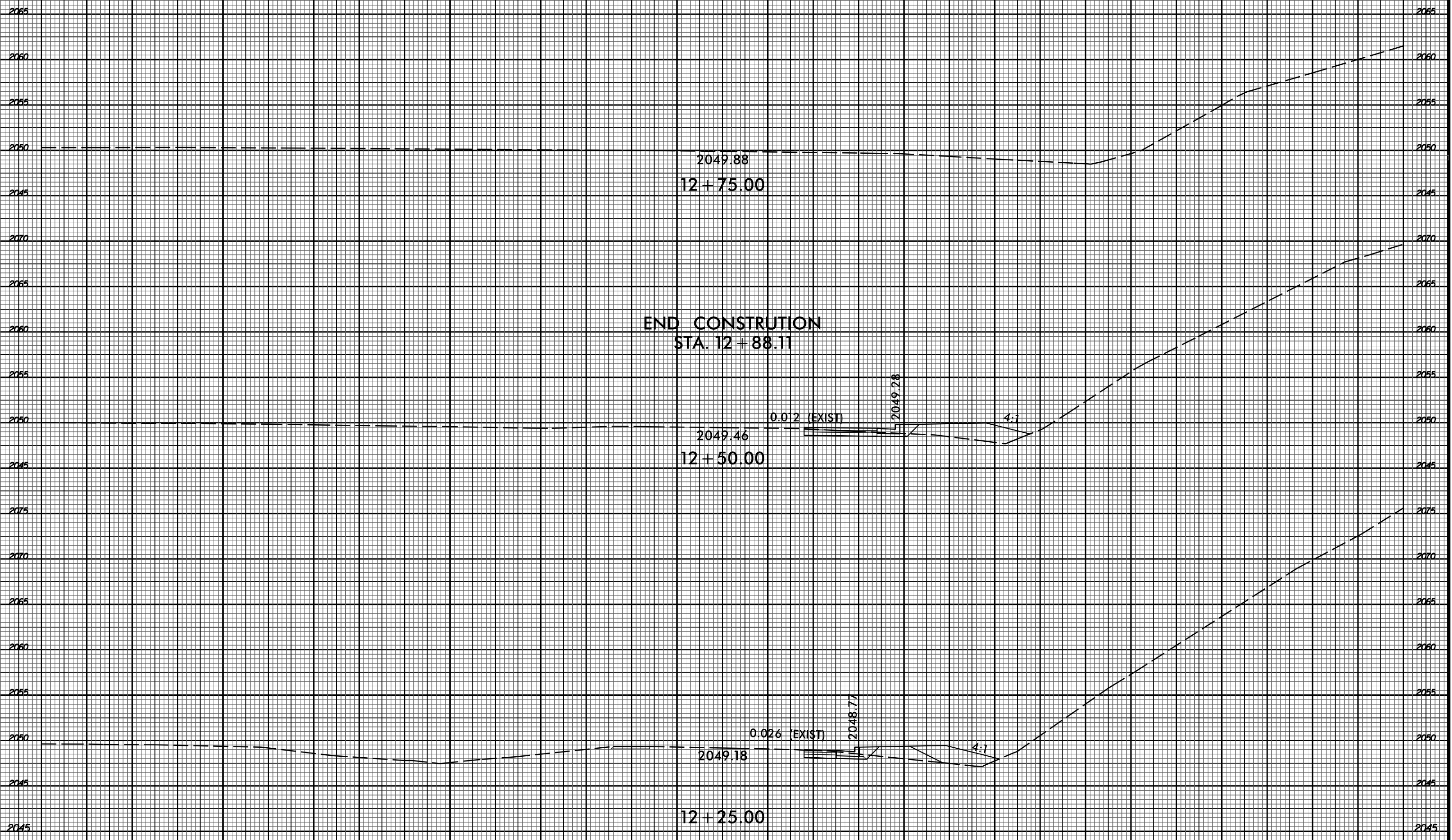
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SHEET NO.
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