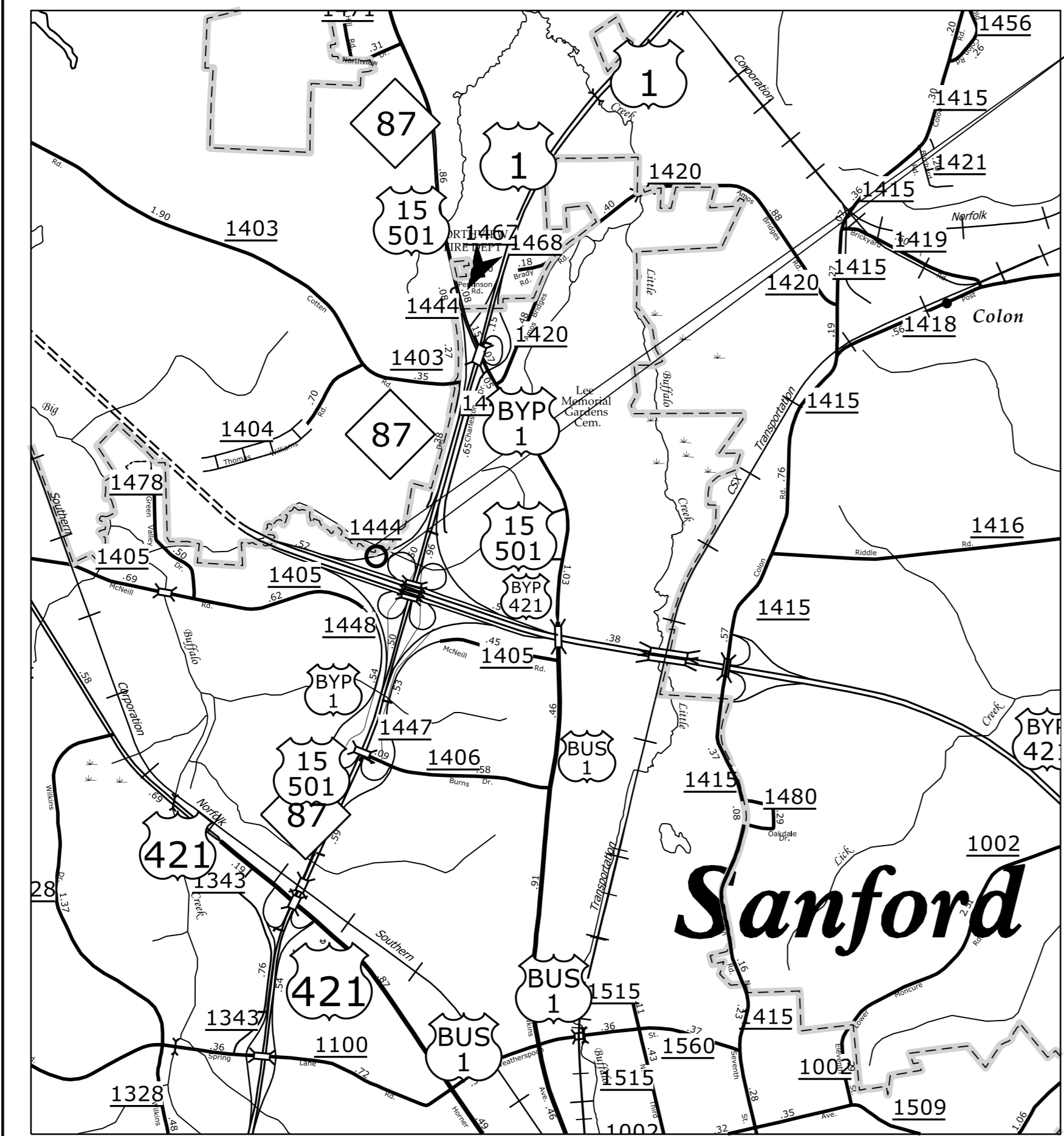


09/08/19

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols

TIP NUMBER R-2417AA PROJECT: US 421 NB RAMP SLOPE FAILURE



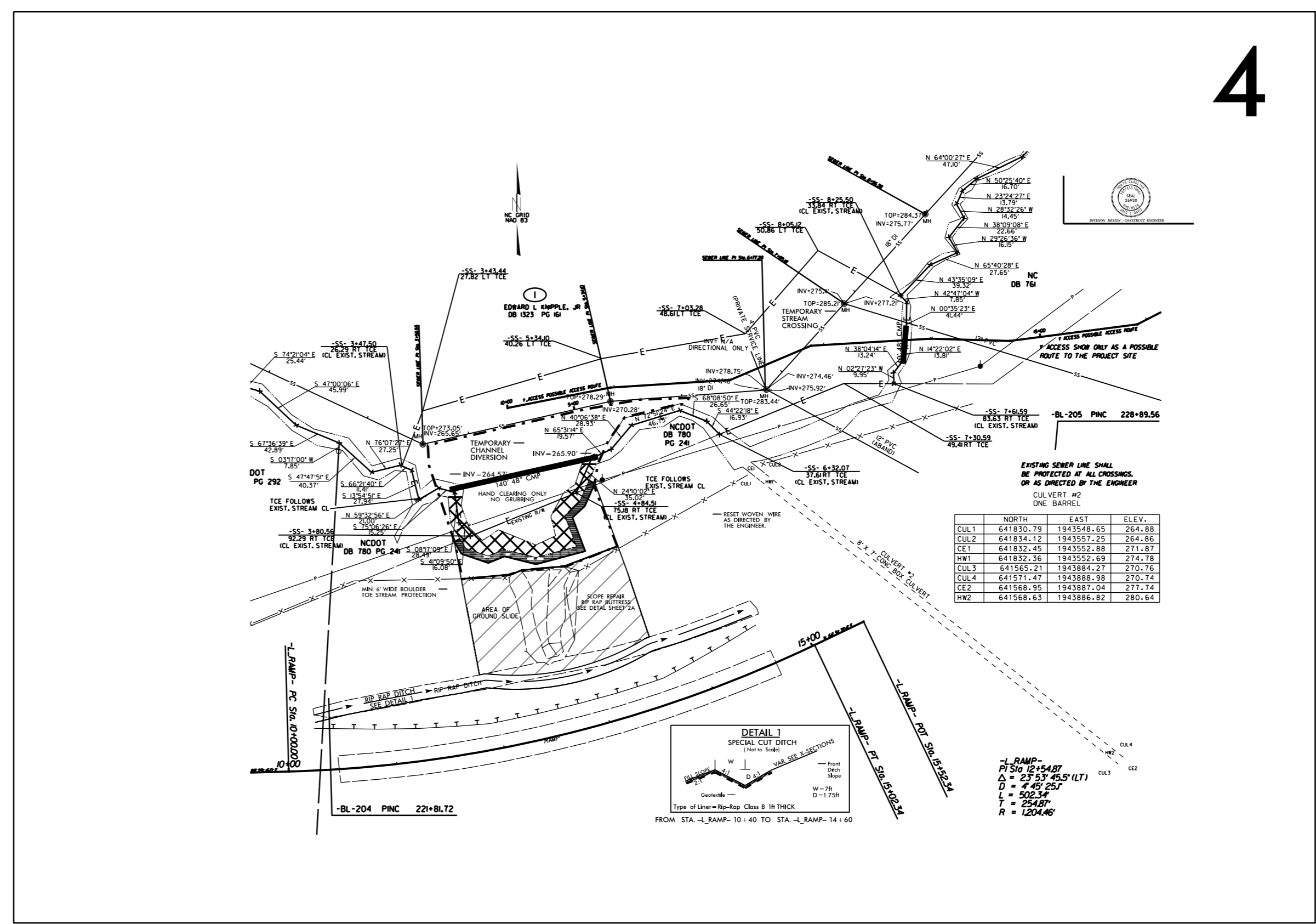
VICINITY MAP

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
LEE COUNTY

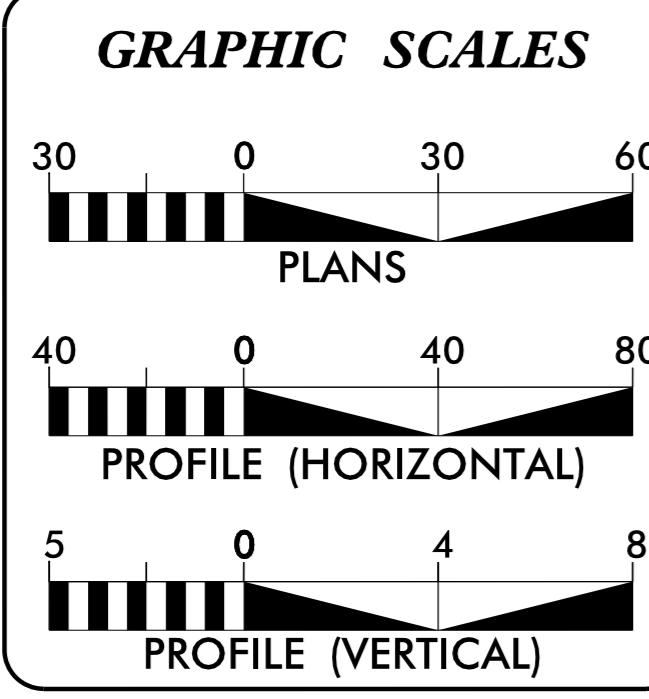
LOCATION: THE NORTH BOUND OFF RAMP FROM US 1 SB FOR US 421 BYP NORTH IN SANFORD

TYPE OF WORK: GRADING, DRAINAGE, AND EROSION CONTROL

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2417AA	1	
WBS ELEMENT	F.A. PROJ. NO.	DESCRIPTION	
34431.3.7		PE, RW, CONST.	



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



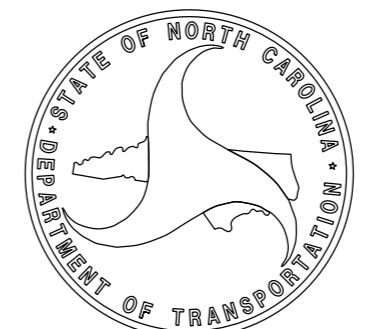
Prepared in the Office of:
DIVISION OF HIGHWAYS
DIVISION 8 DESIGN & CONSTRUCT UNIT
 902 N. SANDHILLS BLVD.
 ABERDEEN NC 28315
 PLANS PREPARED BY: MRT

PROJECT LENGTH
 ROADWAY: 0.1 MILES
 STRUCTURE: _____ MILES
 TOTAL: 0.1 MILES

DIVISION OF HIGHWAYS
 2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: _____

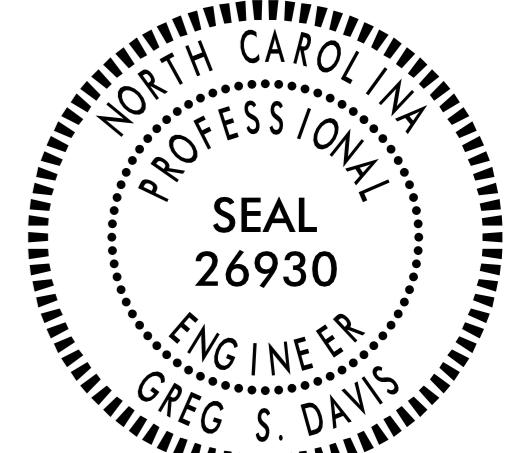
LETTING DATE: _____



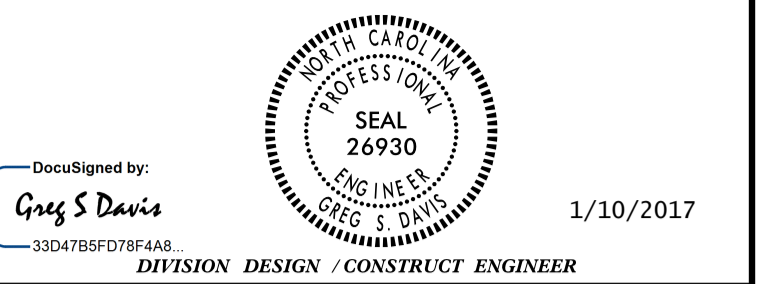
DIVISION DESIGN & CONSTRUCT ENGINEER

DocuSigned by:
 Greg S Davis
 1/10/2017 P.E.

DIVISION DESIGN & CONSTRUCT ENGINEER



\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DCN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

PROJECT REFERENCE NO.	SHEET NO.
R-2417AA	1-A
	

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 II.

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 EXCEPT AS NOTED IN PLANS, WILL BE ACCOMPLISHED BY OTHERS PRIOR TO THE DATE OF AVAILABILITY.

INDEX OF SHEETS

<u>SHEET NUMBER</u>	<u>SHEET</u>
1	TITLE SHEET
1-A	INDEX OF SHEETS
1-B	CONVENTIONAL SYMBOLS
2	ROCK BUTTRESS DETAIL
2A	TYPICAL SECTION
3	SUMMARY OF QUANTITIES
3A	SUMMARY OF EARTHWORKS
4	PLAN SHEET
5 THRU 9	VERTICAL PROFILES
TMP-1 THRU TMP-5	TRAFFIC MANAGEMENT PLAN
EC-1 THRU EC-4	EROSION CONTROL PLAN
X-A THRU X-20	CROSS SECTIONS

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 17, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

<u>STD.NO.</u>	<u>TITLE</u>
200.02	Method of Clearing – Method II
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
654.01	Pavement Repairs
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structural Anchor Unit
876.01	Rip Rap in Channels

8/17/99

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STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale *S.U.E. = *Subsurface Utility Engineering*

04/06/15

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Property Corner	-----
Property Monument	□ ECM
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	--- WLB
Proposed Wetland Boundary	--- WLB
Existing Endangered Animal Boundary	--- EAB
Existing Endangered Plant Boundary	--- EPB
Existing Historic Property Boundary	--- HPB
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	○ S
Well	○ W
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	← FLOW
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	○ R/W
Proposed Right of Way Line with Iron Pin and Cap Marker	○ R/W ▲
Proposed Right of Way Line with Concrete or Granite R/W Marker	○ R/W ▲
Proposed Control of Access Line with Concrete CA Marker	○ R/W ▲
Existing Control of Access	○ CA
Proposed Control of Access	○ CA
Existing Easement Line	--- E
Proposed Temporary Construction Easement	--- E
Proposed Temporary Drainage Easement	--- TDE
Proposed Permanent Drainage Easement	--- PDE
Proposed Permanent Drainage / Utility Easement	--- DUE
Proposed Permanent Utility Easement	--- PUE
Proposed Temporary Utility Easement	--- TUE
Proposed Aerial Utility Easement	--- AUE
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	--- C
Proposed Slope Stakes Fill	--- F
Proposed Curb Ramp	○ CR
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	□ Vineyard

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	□ CONC
Bridge Wing Wall, Head Wall and End Wall	┌ CONC WW ─┐
MINOR:	
Head and End Wall	┌ CONC HW ─┐
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	⊕
Storm Sewer	--- S

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.*)	--- P
U/G Power Line LOS C (S.U.E.*)	--- P
U/G Power Line LOS D (S.U.E.*)	--- P

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.*)	--- T
U/G Telephone Cable LOS C (S.U.E.*)	--- T
U/G Telephone Cable LOS D (S.U.E.*)	--- T
U/G Telephone Conduit LOS B (S.U.E.*)	--- TC
U/G Telephone Conduit LOS C (S.U.E.*)	--- TC
U/G Telephone Conduit LOS D (S.U.E.*)	--- TC
U/G Fiber Optics Cable LOS B (S.U.E.*)	--- T FO
U/G Fiber Optics Cable LOS C (S.U.E.*)	--- T FO
U/G Fiber Optics Cable LOS D (S.U.E.*)	--- T FO

WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	--- W
U/G Water Line LOS C (S.U.E.*)	--- W
U/G Water Line LOS D (S.U.E.*)	--- W
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.*)	--- TV
U/G TV Cable LOS C (S.U.E.*)	--- TV
U/G TV Cable LOS D (S.U.E.*)	--- TV
U/G Fiber Optic Cable LOS B (S.U.E.*)	--- TV FO
U/G Fiber Optic Cable LOS C (S.U.E.*)	--- TV FO
U/G Fiber Optic Cable LOS D (S.U.E.*)	--- TV FO

GAS:

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

SANITARY SEWER:

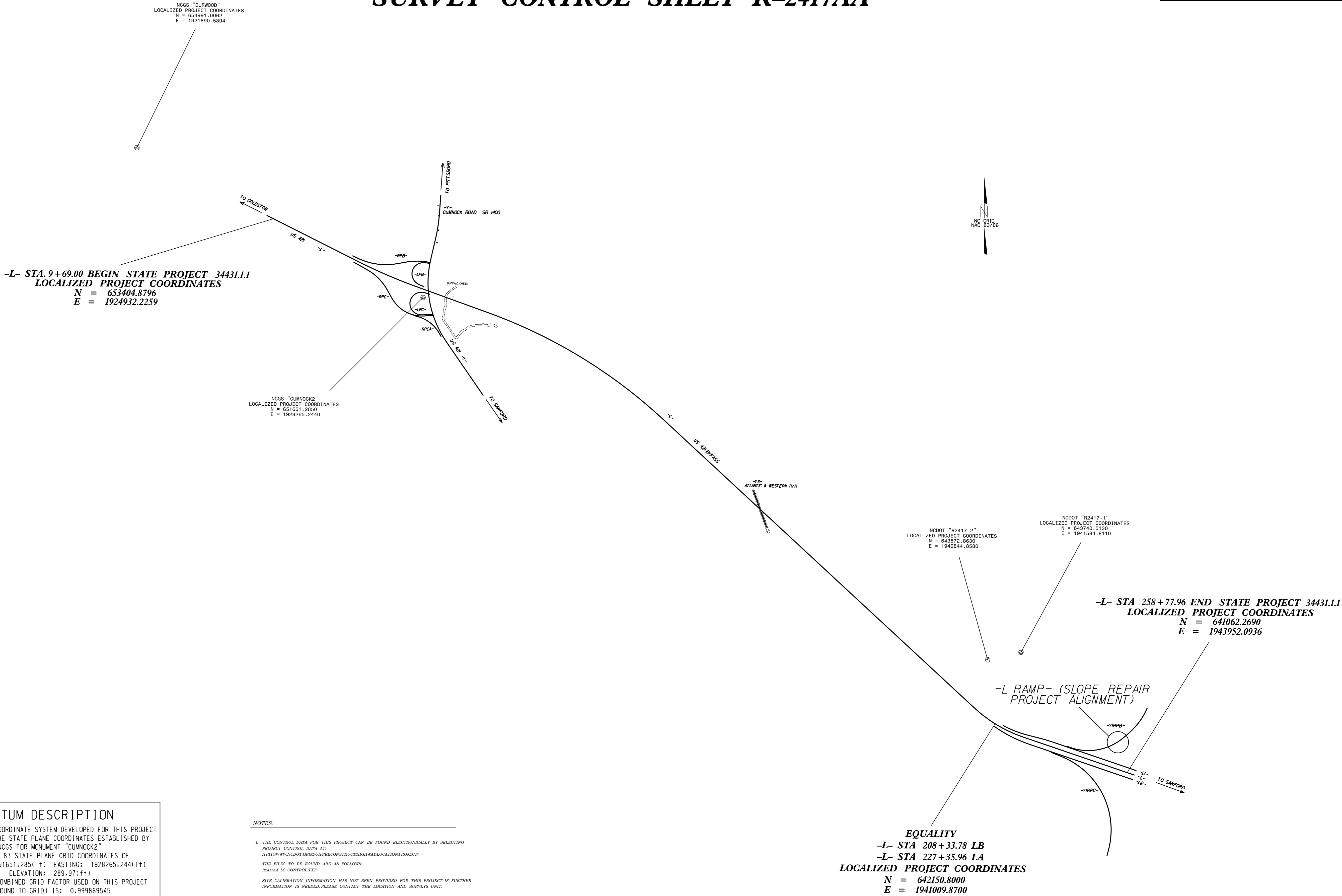
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	--- SS
Above Ground Sanitary Sewer	--- A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	--- FSS
SS Forced Main Line LOS C (S.U.E.*)	--- FSS
SS Forced Main Line LOS D (S.U.E.*)	--- FSS

MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line LOS B (S.U.E.*)	--- UTL
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	AATUR
End of Information	E.O.I.

SURVEY CONTROL SHEET R-2417AA

6/2/99



**-L- STA. 9+69.00 BEGIN STATE PROJECT 34431.1.1
LOCALIZED PROJECT COORDINATES**
N = 653404.8796
E = 1924932.2259

NCGS "CUMNOCK2"
LOCALIZED PROJECT COORDINATES
N = 651651.2850
E = 1928265.2440

NC DOT "R2417-2"
LOCALIZED PROJECT COORDINATES
N = 643572.8630
E = 1940844.8580

NC DOT "R2417-1"
LOCALIZED PROJECT COORDINATES
N = 643740.5130
E = 1941584.8110

**-L- STA 258+77.96 END STATE PROJECT 34431.1.1
LOCALIZED PROJECT COORDINATES**
N = 641062.2690
E = 1943952.0936

EQUALITY
-L- STA 208+33.78 LB
-L- STA 227+35.96 LA
LOCALIZED PROJECT COORDINATES
N = 642150.8000
E = 1941009.8700

DATUM DESCRIPTION
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NC GS FOR MONUMENT "CUMNOCK2" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 651651.285(ft) EASTING: 1928265.244(ft) ELEVATION: 289.97(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999869545 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CUMNOCK2" TO -L- STATION 9+69.00 IS N 62 14 59.6 W 3766.179' ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NGVD 29

NOTES:
1. THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT: [HTTP://WWW.NCDOT.ORG/ohp/reconstruct/highway/location/project/](http://www.ncdot.org/ohp/reconstruct/highway/location/project/) THE FILES TO BE FOUND ARE AS FOLLOWS: R2417AA_SCONTROL.TXT SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
O INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT. PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM & EXISTING NC GS MONUMENTATION.

NOTE: DRAWING NOT TO SCALE

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SURVEY CONTROL SHEET R-2417AA

BL POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET	
101	BL-101	653221.8810	1925296.1050	241.84	13+76.30	0.51 LT	
102	BL-102	652644.4740	1926449.5990	242.25	26+66.24	4.54 LT	BMI ELEVATION = 246.84
103	BL-103	652213.3160	1927388.1710	242.58	36+56.92	5.42 RT	N 653454 E 1924970
104	BL-104	651959.7680	1927932.8770	278.26	43+01.02	0.66 RT	L STATION 9+81.00 61 LEFT
105	BL-105	651861.4560	1928199.3140	298.16	45+85.01	0.81 RT	PK NAIL IN SE W/ OF BRIDGE OVER DEEP RIVER
106	BL-106	651784.6740	1928415.5520	288.82	48+14.47	0.87 LT	
107	BL-107	651722.8540	1928637.8370	278.35	50+44.50	18.67 LT	
108	BL-108	651638.6190	1928841.9200	226.38	52+65.08	9.19 LT	
109	BL-109	651518.2060	1929156.1190	250.18	56+01.51	3.30 LT	BMP ELEVATION = 256.96
110	BL-110	651395.8230	1929488.9760	257.93	59+56.42	11.20 LT	N 651772 E 1927724
111	BL-111	651300.8080	1929734.2480	267.73	62+19.13	3.60 RT	L STATION 41+75.00 251 RIGHT
112	BL-112	651211.4230	1929965.9800	252.14	64+67.60	5.72 RT	RR SPIKE IN BASE OF 15 INCH PINE
113	BL-113	651096.8870	1930253.6590	264.63	67+96.60	0.20 RT	
114	BL-114	650896.2210	1930723.9970	292.99	72+87.49	5.87 LT	
115	BL-115	650615.9550	1931228.5160	296.39	78+65.81	10.77 RT	BMP ELEVATION = 254.49
116	BL-116	650508.7820	1931440.2120	292.58	81+03.26	10.68 RT	N 651239 E 1928027
117	BL-117	650376.3780	1931882.2840	282.71	83+99.28	3.89 RT	L STATION 56+22.00 286 RIGHT
118	BL-118	649894.1730	1932468.7170	290.08	93+00.97	21.38 LT	RR SPIKE IN BASE OF 6 INCH PINE
119	BL-119	649516.8220	1932927.0180	252.99	98+93.68	5.54 RT	
120	BL-120	649239.8340	1933274.4770	244.28	103+39.26	0.89 LT	
121	BL-121	648776.4150	1933788.5370	248.30	110+30.19	2.20 LT	BMP ELEVATION = 297.16
122	BL-122	648523.8550	1934068.0740	249.94	114+01.02	1.67 LT	N 651394 E 1930818
123	BL-123	648264.8660	1934338.0460	255.54	117+75.08	4.63 RT	L STATION 64+50.00 183 LEFT
124	BL-124	648031.6970	1934605.5760	246.29	121+30.99	1.83 RT	RR SPIKE IN BASE OF 10 INCH OAK
125	BL-125	647776.4630	1934863.0930	248.83	124+98.83	0.25 RT	
126	BL-126	647435.4460	1935248.9280	246.85	130+12.82	12.89 LT	BMP ELEVATION = 304.25
127	BL-127	647111.5430	1935716.7280	250.38	134+73.42	2.49 RT	N 651285 E 1930883
128	BL-128	646918.0590	1935806.7120	255.42	137+73.62	12.85 LT	L STATION 72+74.00 339 LEFT
129	BL-129	646681.6770	1936044.0710	253.56	141+08.39	0.14 LT	RR SPIKE IN BASE OF 10 INCH PINE
130	BL-130	646510.6880	1936234.9680	252.46	143+64.68	4.52 LT	
131	BL-131	646315.9540	1936448.9620	246.29	146+48.36	1.59 LT	
132	BL-132	646042.1870	1936729.0880	251.49	150+45.51	2.91 RT	BMP ELEVATION = 256.56
133	BL-133	645799.7140	1936990.5540	247.14	154+02.18	2.89 RT	N 650863 E 1931610
134	BL-134	645585.5080	1937241.6840	246.84	157+31.89	10.83 LT	L STATION 84+88.00 310 RIGHT
135	BL-135	645315.8450	1937515.1320	250.00	161+15.76	0.94 RT	RR SPIKE IN BASE OF 10 INCH PINE
136	BL-136	645088.8560	1937761.8840	263.04	164+51.03	0.43 LT	
137	BL-137	644755.4380	1938149.2820	263.68	169+61.88	19.41 LT	
138	BL-138	644495.8310	1938445.8290	261.30	173+82.38	0.85 LT	BMP ELEVATION = 298.58
139	BL-139	644194.0540	1938725.3470	248.85	177+65.92	0.47 RT	N 649925 E 1932919
140	BL-140	644039.3270	1938994.5460	272.81	179+95.19	1.15 LT	L STATION 96+41.00 312 LEFT
141	BY-141	651208.0960	1928308.7410	280.84	37+05.44	195.33 RT	RR SPIKE IN BASE OF 6 INCH CEDAR
142	BY-142	650716.5280	1928759.0570	280.85	43+23.31	7.89 LT	
143	BY-143	649383.9690	1929676.4430	256.46	OUTSIDE PROJECT LIMITS		
201	BL-201	642187.2780	1941887.2220	279.44	228+24.72	2.67 LT	BMP ELEVATION = 256.13
202	BL-202	641976.1240	1941768.1370	296.92	235+07.82	155.54 LT	N 648267 E 1934700
203	BL-203	641765.1990	1942448.9270	319.20	242+28.22	178.85 LT	L STATION 128+45.00 248 LEFT
204	BL-204	641626.8090	1943155.4480	328.85	7+31.56	29.84 LT	RR SPIKE IN BASE OF 15 INCH PINE
205	BL-205	641855.3180	1943825.3920	319.18	14+59.85	25.81 LT	
206	BL-206	642401.1950	1944365.9670	315.49	22+39.53	12.31 RT	
207	BL-207	643034.8780	1944561.1140	338.97	OUTSIDE PROJECT LIMITS		
BY	POINT	DESC.	NORTH	EAST	ELEVATION	Y STATION	OFFSET
104	BL-104	651959.7680	1927932.8770	278.26	30+00.39	443.44 RT	
141	BY-141	651208.0960	1928308.7410	280.84	37+05.44	195.33 RT	
142	BY-142	650716.5280	1928759.0570	280.85	43+23.31	7.89 LT	
143	BY-143	649383.9690	1929676.4430	256.46	OUTSIDE PROJECT LIMITS		
BY1	POINT	DESC.	NORTH	EAST	ELEVATION	Y STATION	OFFSET
160	BY1-160	653825.7860	1928636.8670	273.82	11+12.35	15.82 RT	
144	BY1-144	653171.8842	1928577.5129	269.85	17+78.46	4.57 RT	
106	BL-106	651784.6740	1928415.5520	288.82	31+80.06	31.68 LT	
BY2	POINT	DESC.	NORTH	EAST	ELEVATION	Y3 STATION	OFFSET
145	BY2-145	647248.1890	1935651.1840	268.99	10+00.13	9.20 RT	
128	BL-128	646918.0590	1935806.7120	255.42	13+63.36	25.18 LT	
146	BY2-146	646529.1530	1935911.5260	252.91	17+64.77	8.10 RT	
RAMP	POINT	DESC.	NORTH	EAST	ELEVATION	L AB STATION	OFFSET
201	BL-201	642187.2780	1941887.2220	279.44	228+24.72	2.67 LT	
208	RPC-208	641682.1610	1941969.8530	303.41	238+27.65	138.48 RT	
RPC	POINT	DESC.	NORTH	EAST	ELEVATION	YIRPC STATION	OFFSET
209	RPC-209	641213.1450	1943004.8080	348.26	7+95.44	84.84 LT	
210	RPC-210	640837.9870	1943412.2110	341.74	13+16.49	134.80 LT	
211	RPC-211	640434.1580	1943829.6270	341.81	17+41.94	146.14 LT	
212	RPC-212	639883.3280	1943646.3610	323.58	22+57.73	53.16 LT	

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCOS FOR MONUMENT "CUMNOCK2" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 651651.285(ft) EASTING: 1928265.244(ft) ELEVATION: 289.97(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999869545 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CUMNOCK2" TO -L- STATION 9+69.00 IS N 62 14 59.6 W 3766.179' ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NGVD 29

NOTES:

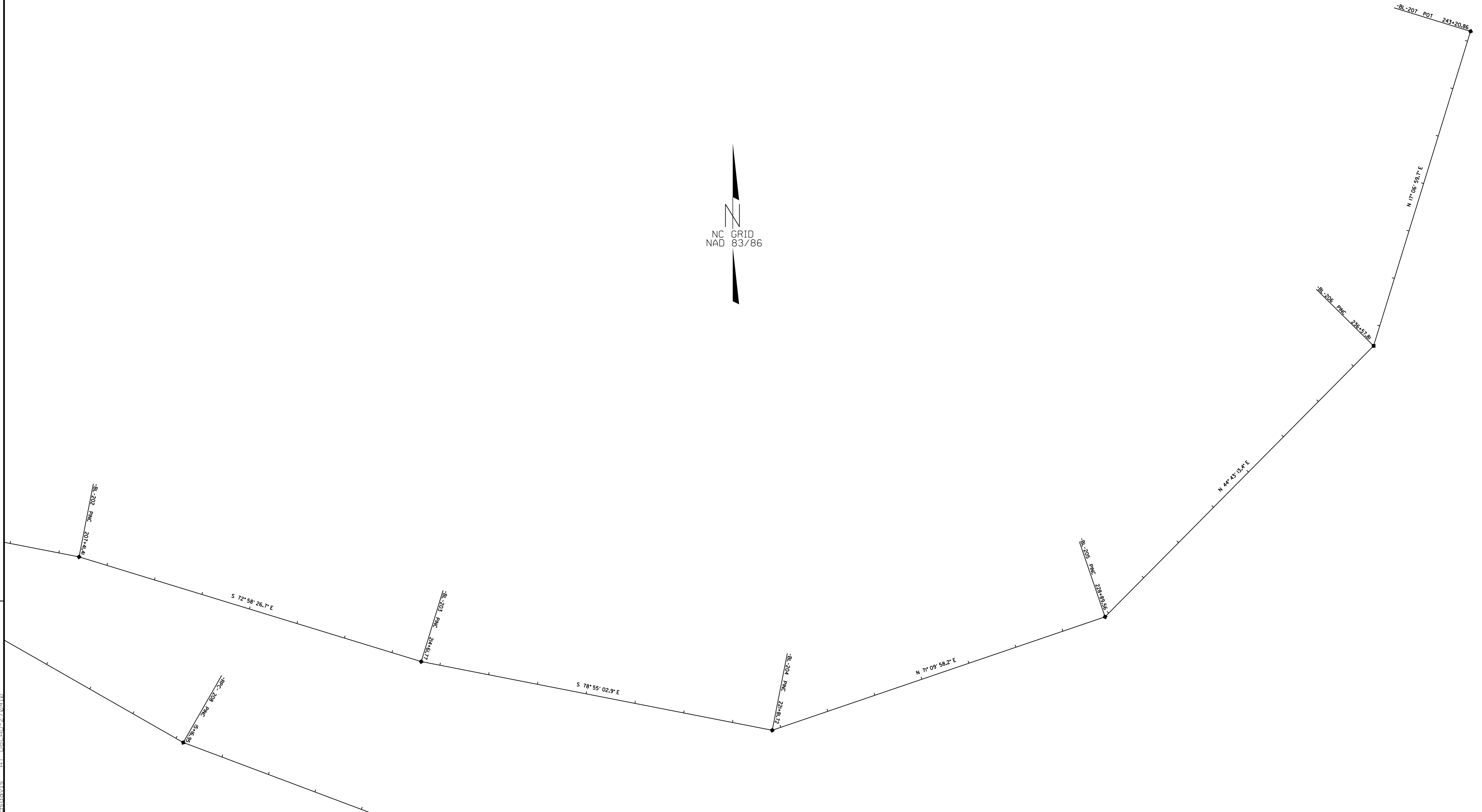
- THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT: [HTTP://WWW.NCDOT.ORG/ohp/ohpconstruct/highway/location/project/](http://www.ncdot.org/ohp/ohpconstruct/highway/location/project/)
- THE FILES TO BE FOUND ARE AS FOLLOWS: R2417AA_SCONTROL.TXT
- SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- 0 INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM & EXISTING NCOS MONUMENTATION.

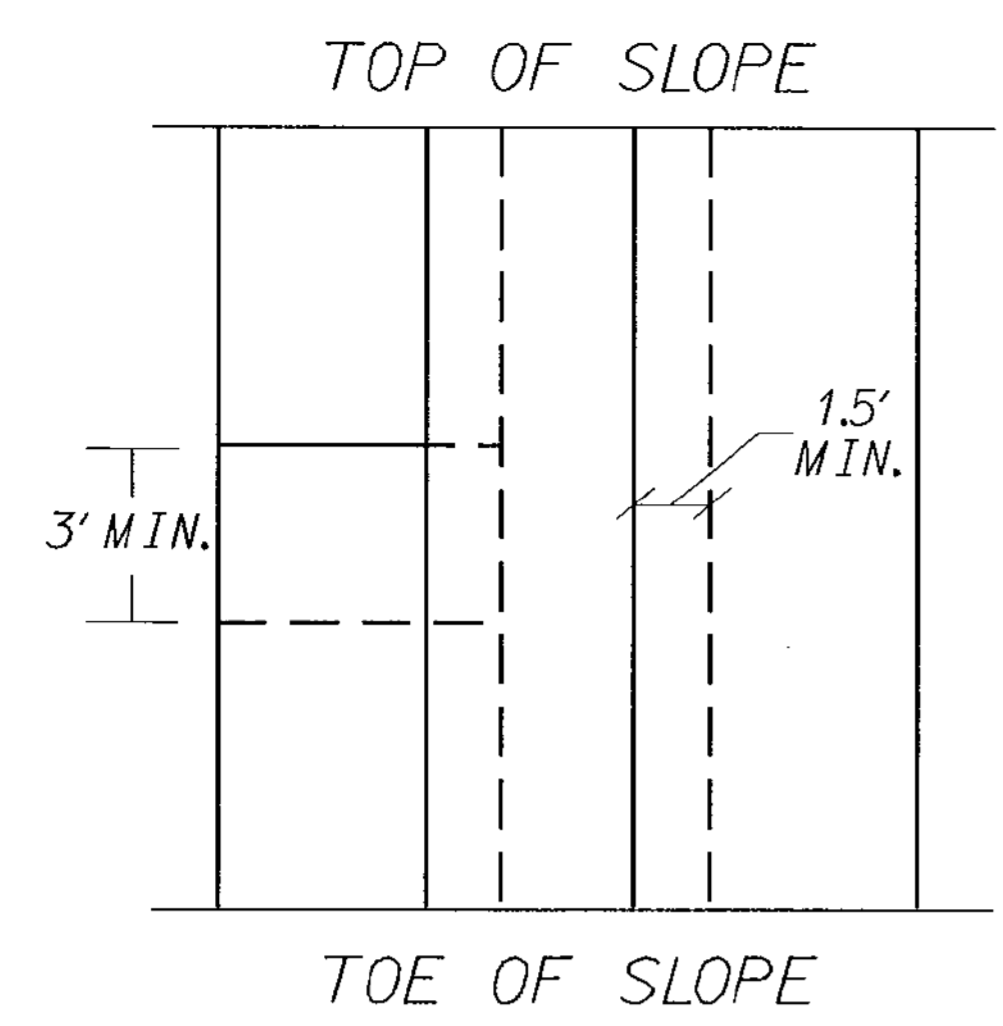
NOTE: DRAWING NOT TO SCALE

6/2/99
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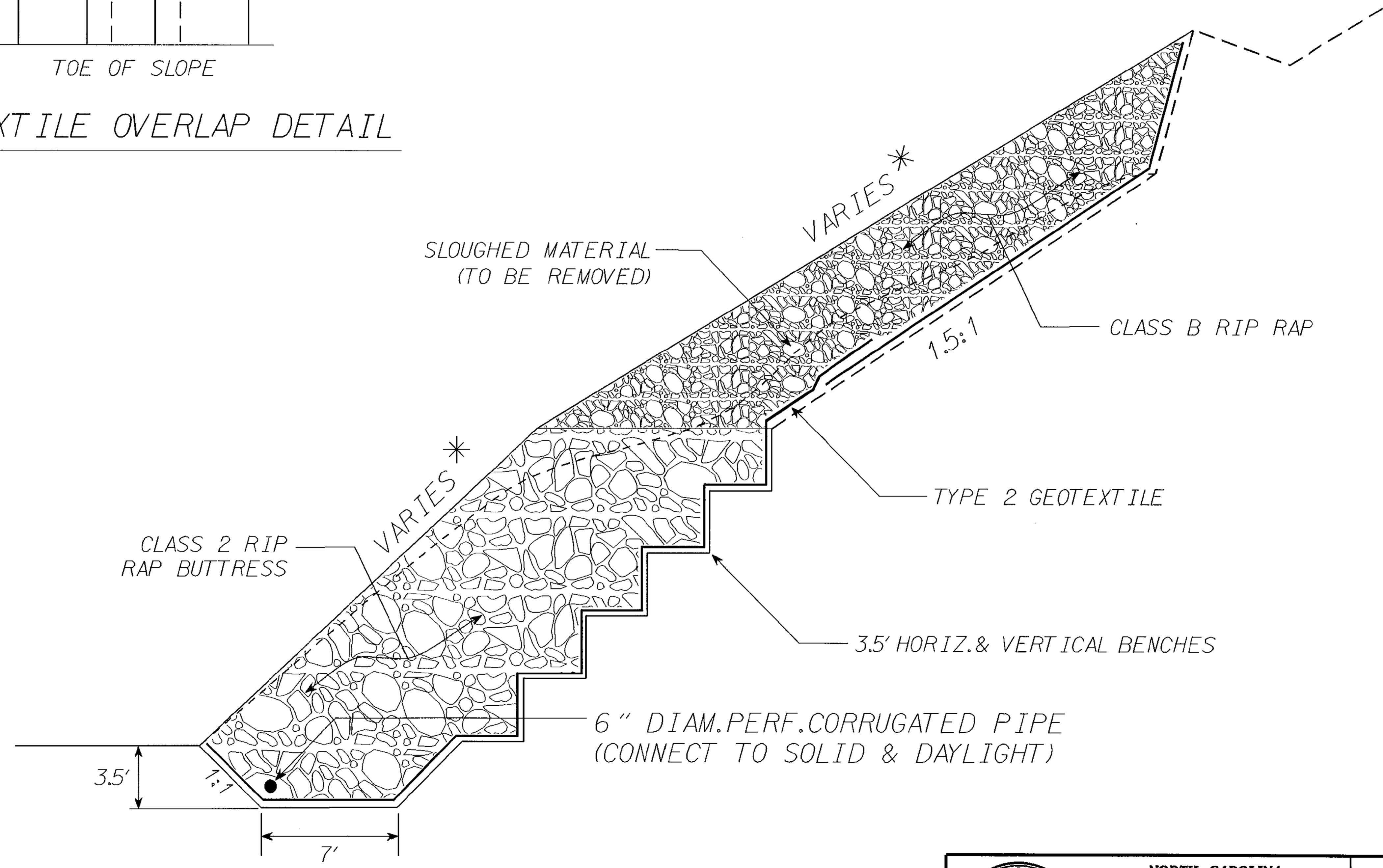
REVISIONS

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 10/17/99






GEOTEXTILE OVERLAP DETAIL



*SEE ROADWAY PLANS & CROSS-SECTIONS

PREPARED BY: D. Hardister, PE DATE: 8/1/16
 REVIEWED BY: DATE:



**NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**


**GEOTECHNICAL
ENGINEERING UNIT**

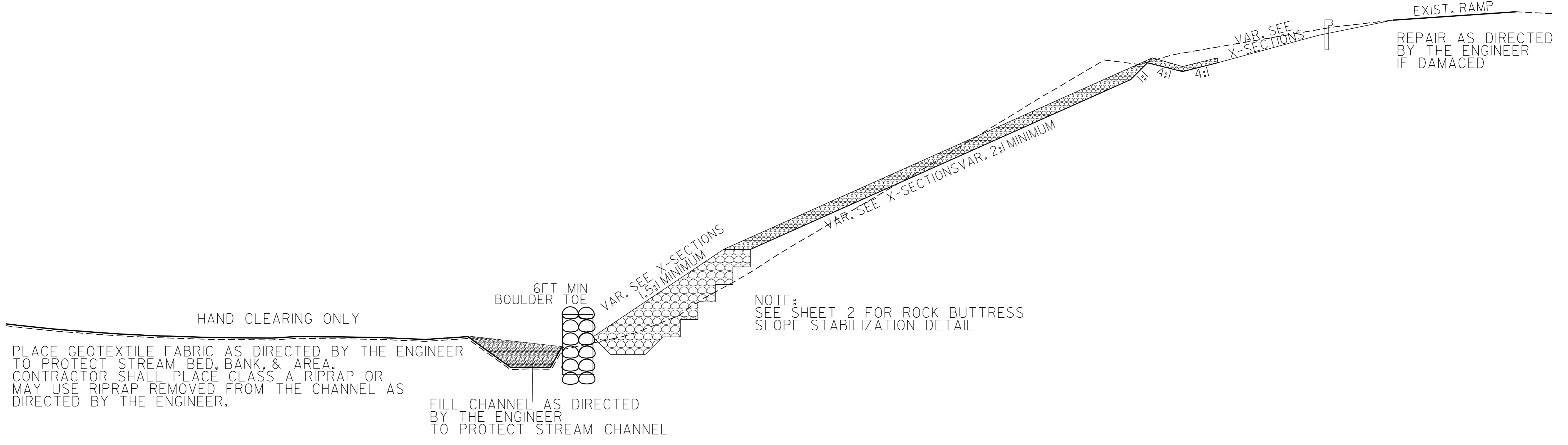
**ROCK BUTTRESS SLOPE STABILIZATION
US 1 SOUTHBOUND TO
US 421 NORTHBOUND - RAMP B
LEE COUNTY**

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

5/14/99

TYPICAL CROSS SECTION

PROJECT REFERENCE NO. R-2417AA	SHEET NO. 2A
R/W SHEET NO.	
	
DocuSigned by: Greg S Davis 3304785FD78E448	1/10/2017
DIVISION DESIGN / CONSTRUCT ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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NOT TO SCALE

PROJECT NO.	SHEET NO.	TOTAL NO.
34431.3.7	3	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	CLEARING & GRUBBING (0.80 ACRES) LS	UNCLASSIFIED EXCAVATION CY	UNDERCUT EXCAVATION CY	BORROW EXCAVATION CY	GEOTEXTILE FOR ROCK EMBANKMENT SY	GENERIC GRADING ITEM CONSTRUCT, MAINTAIN, REMOVAL OF TEMPORARY ACCESS LS	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES TON	FOUNDATION CONDITIONING GEOTEXTILE SY	48" DRAINAGE PIPE LF	PIPE REMOVAL LF	#57 STONE TON	FINE GRADING LS	REMOVE & RESET EXISTING GUARDRAIL LF	WOVEN WIRE FENCE RESET LF	RIP RAP CLASS II TON	RIP RAP, CLASS A TON	RIP RAP, CLASS B TON	BOULDERS TON	GEOTEXTILE FOR DRAINAGE SY
34431.3.7	Lee	1	US 421 RAMP	SLOPE REPAIR ON NB RAMP OF US 421 BYPASS AT US 1 INTERCHANGE	1	3,350	300	1,255	2,730	1	15	50	140	140	115	1.00	425.00	300.00	2,705	300	3,350	535	1,600
TOTAL FOR MAP NO. 1					1	3,350	300	1,255	2,730	1	15	50	140	140	115	1.00	425.00	300.00	2,705	300	3,350	535	1,600
TOTAL FOR PROJ NO. 34431.3.7					1	3,350	300	1,255	2,730	1	15	50	140	140	115	1.00	425.00	300.00	2,705	300	3,350	535	1,600
GRAND TOTAL					1	3,350	300	1,255	2,730	1	15	50	140	140	115	1.00	425.00	300.00	2,705	300	3,350	535	1,600

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	18" GRAVITY SEWER LF	TEMPORARY SILT FENCE LF	EROSION CONTROL STONE, CLASS B TON	SEDIMENT CONTROL STONE TON	TEMPORARY MULCHING ACR	TEMPORARY SLOPE DRAINS LF	MATTING (EROSION CONTROL) SY	COIR FIBER MAT SY	1/4" HARDWARE CLOTH LF	WATTLE LF	POLYACRYLAMIDE (PAM) LB	COIR FIBER BAFFLES LF	SEED & MULCHING AC	SEED FOR REPAIR SEEDING LB	FERTILIZER FOR REPAIR SEEDING TON	IMPERVIOUS DIKE LF	RESPONSE FOR EROSION CONTROL EA	TEMPORARY TRAFFIC CONTROL LS	4399000000-N
34431.3.7	Lee	1	US 421 RAMP	SLOPE REPAIR ON NB RAMP OF US 421 BYPASS AT US 1 INTERCHANGE	100	1,320	45	30	0.25	160	12,850	1,200	210	120	10	85	2.00	100	0.50	60	7	1	
TOTAL FOR MAP NO. 1					100	1,320	45	30	0.25	160	12,850	1,200	210	120	10	85	2.00	100	0.50	60	7	1	
TOTAL FOR PROJ NO. 34431.3.7					100	1,320	45	30	0.25	160	12,850	1,200	210	120	10	85	2.00	100	0.50	60	7	1	
GRAND TOTAL					100	1,320	45	30	0.25	160	12,850	1,200	210	120	10	85	2.00	100	0.50	60	7	1	

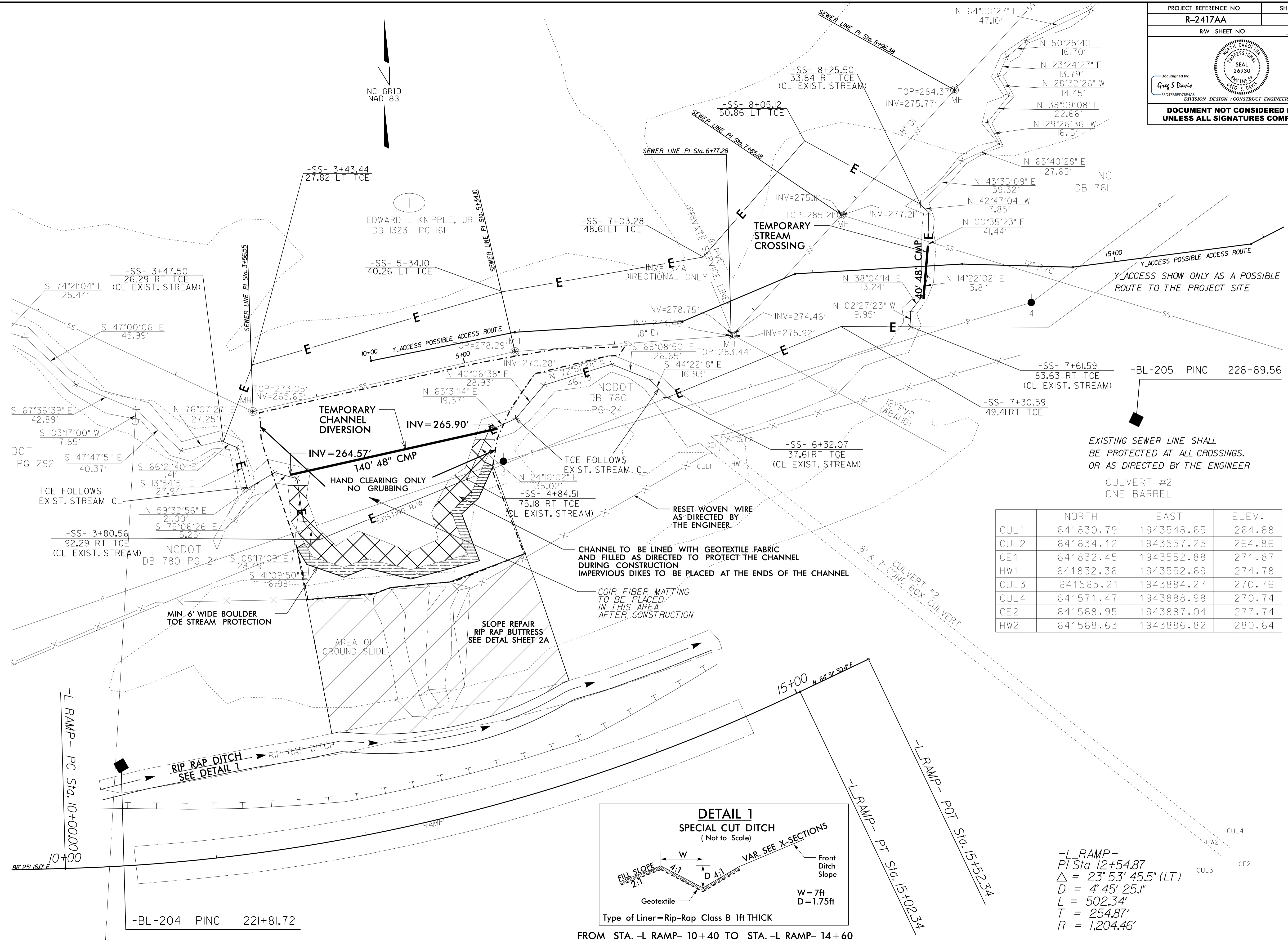
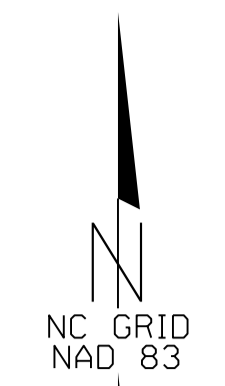
D8CAD21437

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

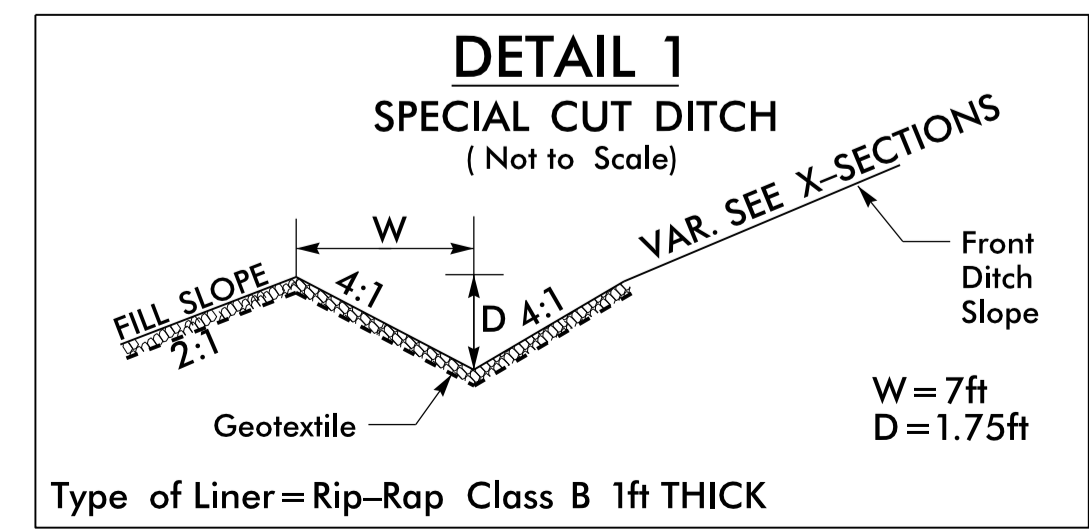
SUMMARY OF EARTHWORK

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
-L- 10+40	-L- 14+60	3343	1254		2089
SUBTOTALS:		3343			2089
EST. 5% from Borrow Pit					
GRAND TOTALS:		3343	1254		2089
SAY:		3350	1255		2090

Quantities are approximate only. The Resident Engineer will recross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.



	NORTH	EAST	ELEV.
CUL1	641830.79	1943548.65	264.88
CUL2	641834.12	1943557.25	264.86
CE1	641832.45	1943552.88	271.87
HW1	641832.36	1943552.69	274.78
CUL3	641565.21	1943884.27	270.76
CUL4	641571.47	1943888.98	270.74
CE2	641568.95	1943887.04	277.74
HW2	641568.63	1943886.82	280.64



FROM STA. -L_RAMP- 10+40 TO STA. -L_RAMP- 14+60

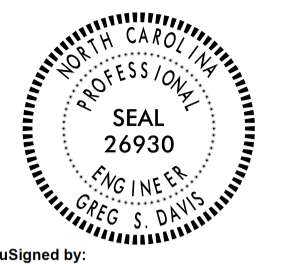
-L_RAMP-
 PI Sta 12+54.87
 $\Delta = 23^{\circ} 53' 45.5''$ (LT)
 $D = 4' 45.25''$
 $L = 502.34'$
 $T = 254.87'$
 $R = 1,204.46'$

REVISIONS

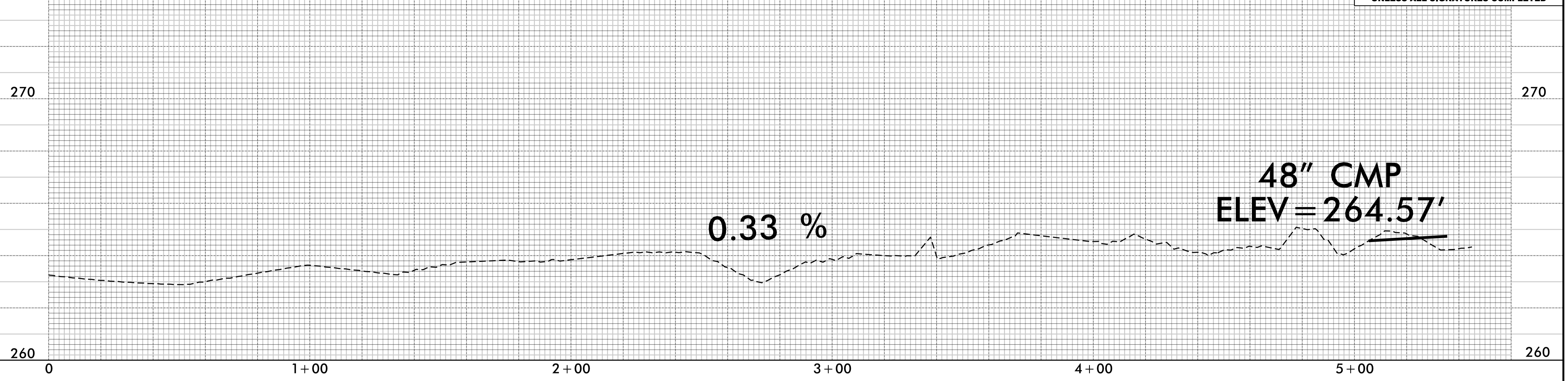
8/17/99

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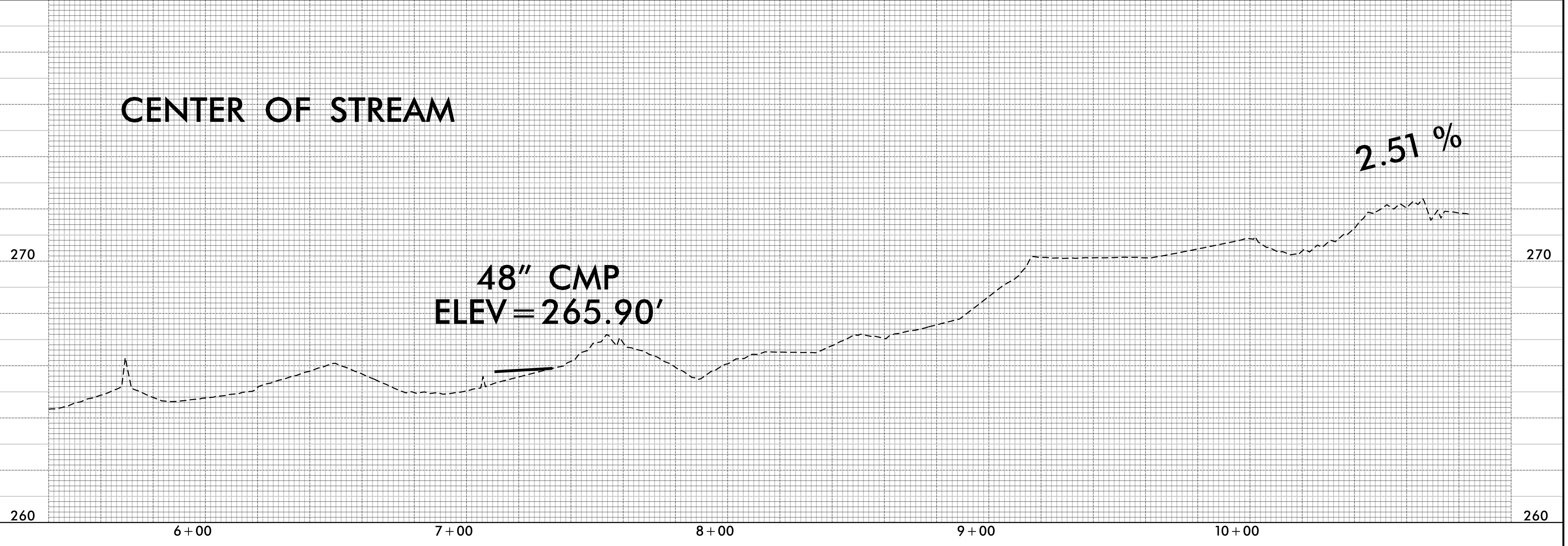
5/28/99

PROJECT REFERENCE NO. R-2417AA	SHEET NO. 7
DIVISION DESIGN / CONSTRUCT. ENGINEER	
	
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

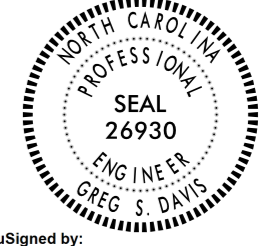
CENTER OF STREAM



CENTER OF STREAM



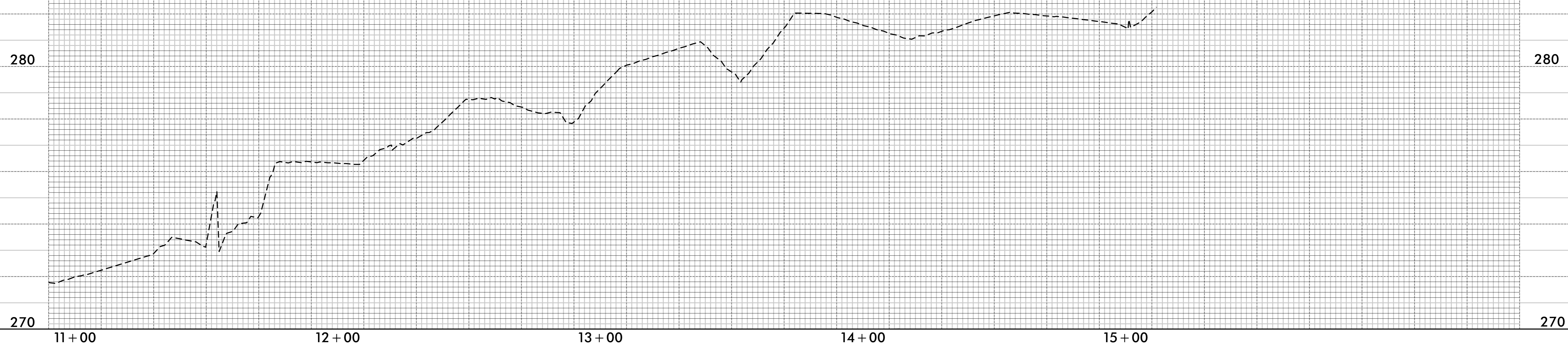
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Designed by: **Greg S. Davis** 1/10/2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CENTER OF STREAM



5/28/99

PROJECT REFERENCE NO.

R-2417AA

SHEET NO.

9

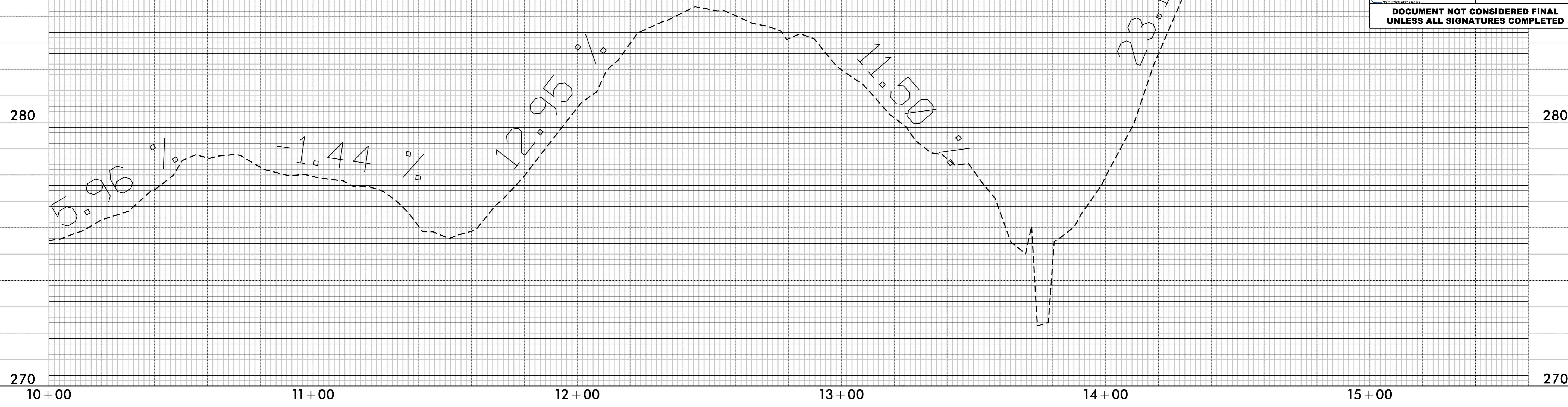
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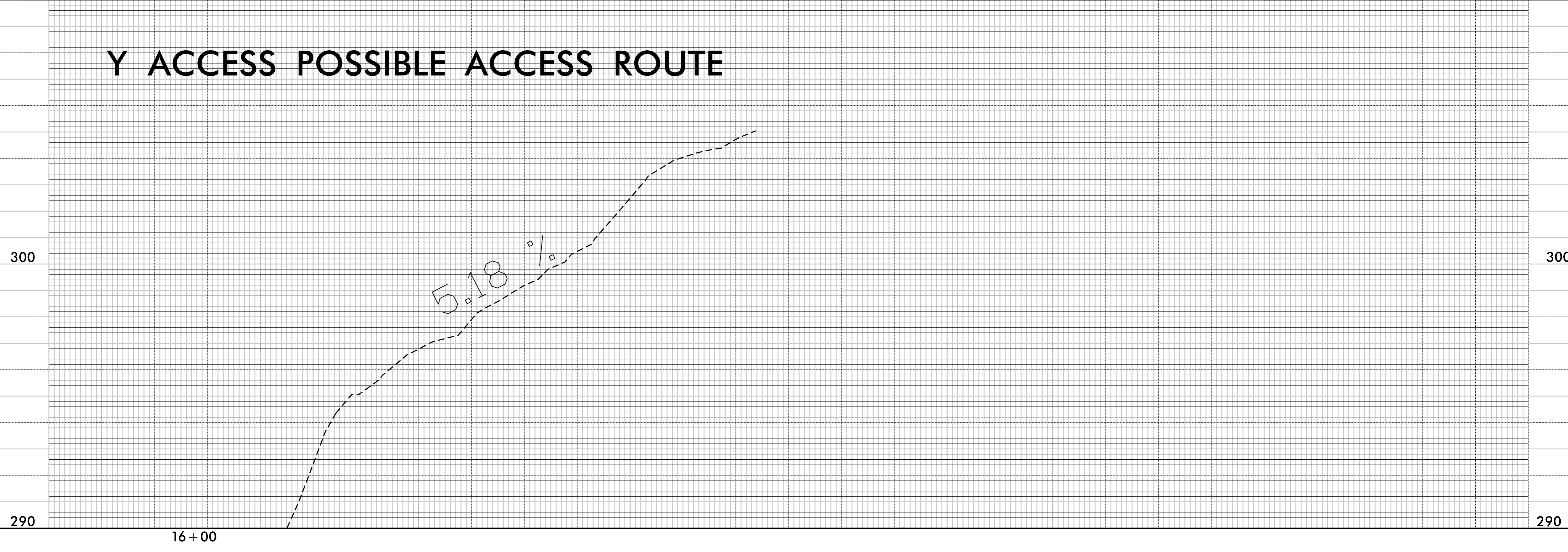
Designed by: Greg S. Davis 1/10/2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Y ACCESS POSSIBLE ACCESS ROUTE



Y ACCESS POSSIBLE ACCESS ROUTE

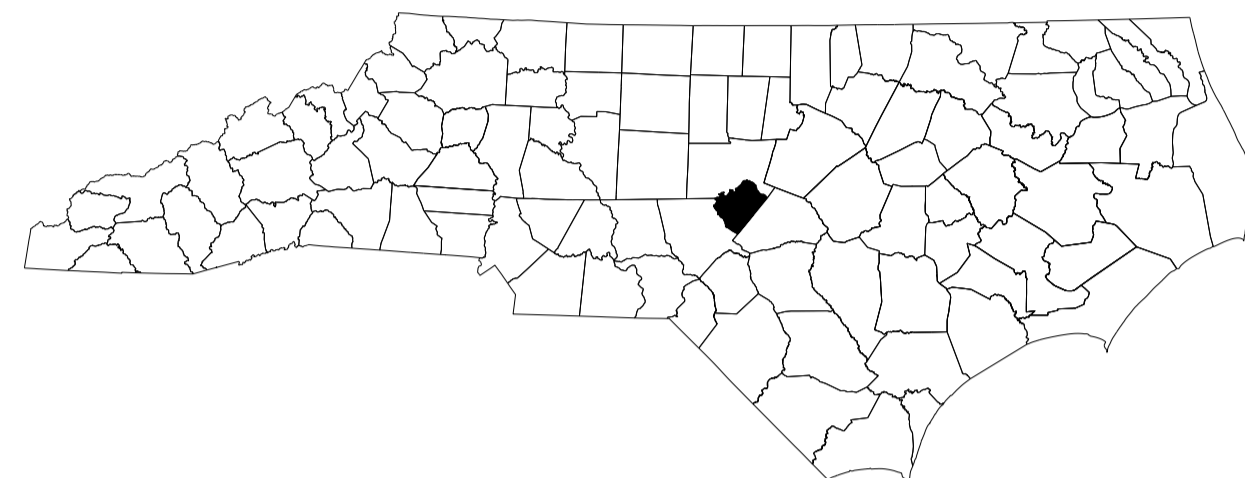


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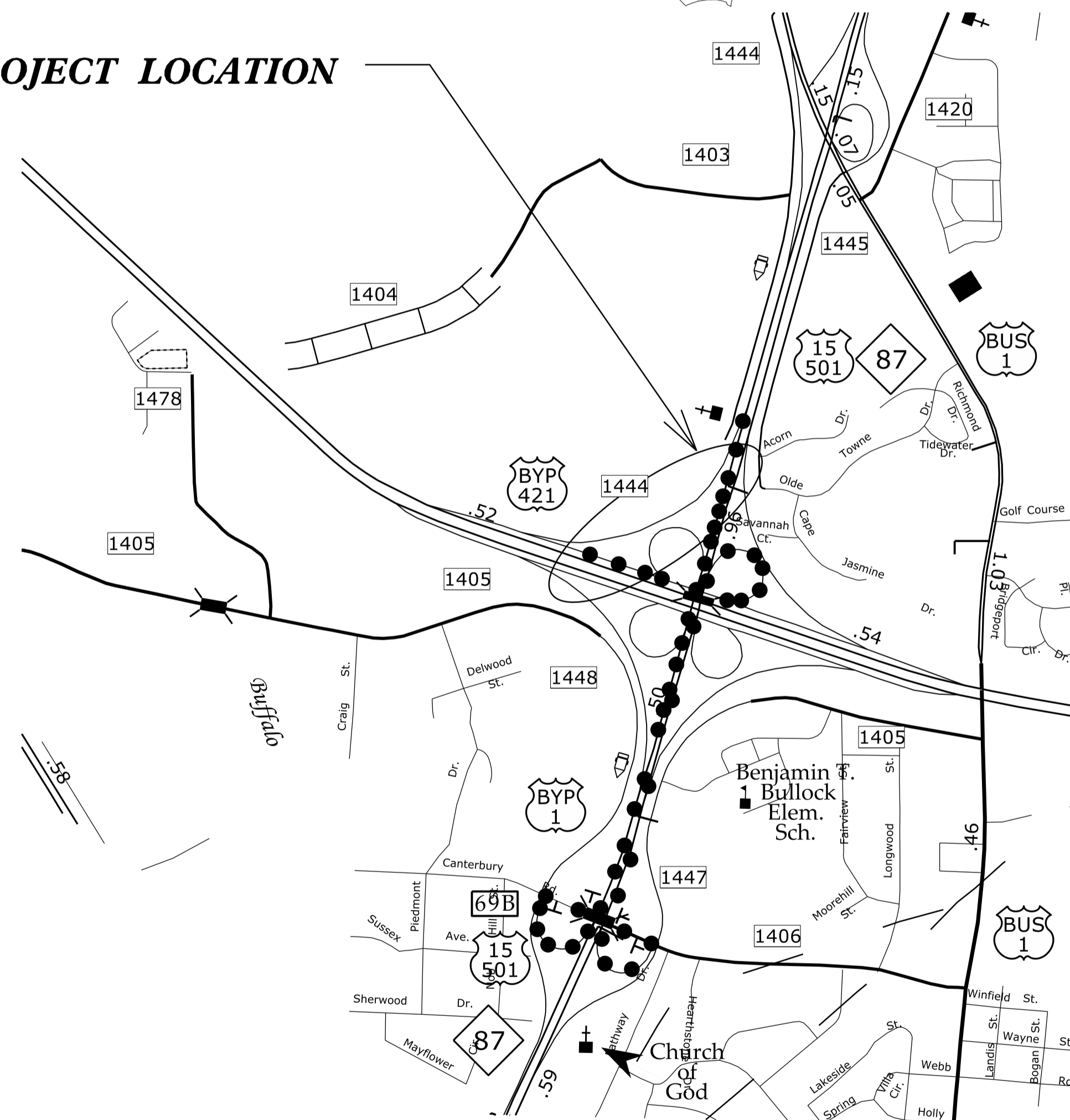
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

LEE COUNTY



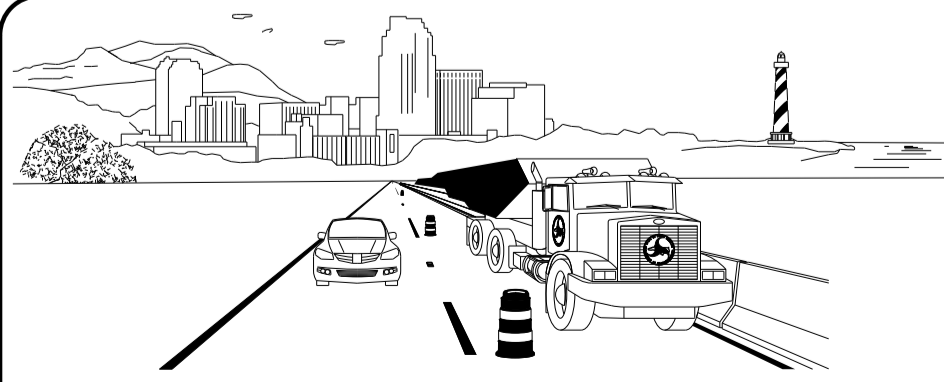
PROJECT LOCATION



SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-2	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND PHASING)
TMP-3	US 421 BYP. NB RAMP DETOUR OVERVIEW
TMP-4	US 421 BYP. NB RAMP DETOUR DETAIL #1
TMP-5	US 421 BYP. NB RAMP DETOUR DETAIL #2

SHEET NO.
TMP-1

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gsdavis AT D8CAD-270410



WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

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



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UNLESS ALL SIGNATURES COMPLETED

APPROVED: Greg S Davis
DATE: 1/10/2017

SEAL



TIP PROJECT: R-2417AA

MANAGEMENT STRATEGIES

- US 421 BYP. NB RAMP TO BE CLOSED FOR NO MORE THAN 150 DAYS WHILE SLOPE FAILURE REPAIR IS COMPLETED.

GENERAL NOTES

TRAFFIC PATTERN ALTERATIONS

- A) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- B) CONTRACTOR SHALL INSTALL ALL SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

CONTRACTOR SHALL INSTALL ALL SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

- C) CONTRACTOR SHALL COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

CONTRACTOR SHALL COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

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

PHASING

STEP 1: - CONTRACTOR SHALL INSTALL OFF-SITE DETOUR ROUTE SIGN ASSEMBLIES FOR THE CLOSING OF US 421 BYP. NB RAMP (SEE TMP-3 THRU TMP-5).


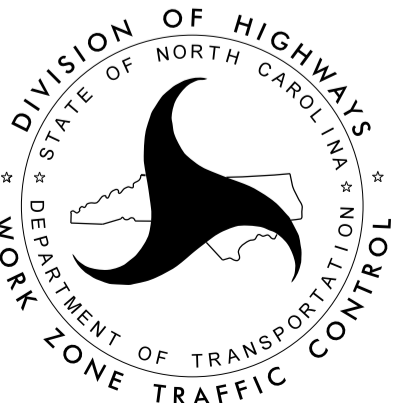
- USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEETS 2 OF 9, TMP-3 THRU TMP-5, CLOSE US 421 BYP. NB RAMP TO TRAFFIC AND SHIFT TRAFFIC ONTO OFFSITE DETOUR.

STEP 2: - CONTRACTOR SHALL CONSTRUCT SLOPE FAILURE REPAIR ON US 421 BYP. NB RAMP. SEE CONSTRUCTION PLANS.

STEP 3: - CONTRACTOR SHALL REMOVE WORK ZONE ALL TRAFFIC CONTROL DEVICES, SIGNING AND DETOUR ROUTE SIGNING.

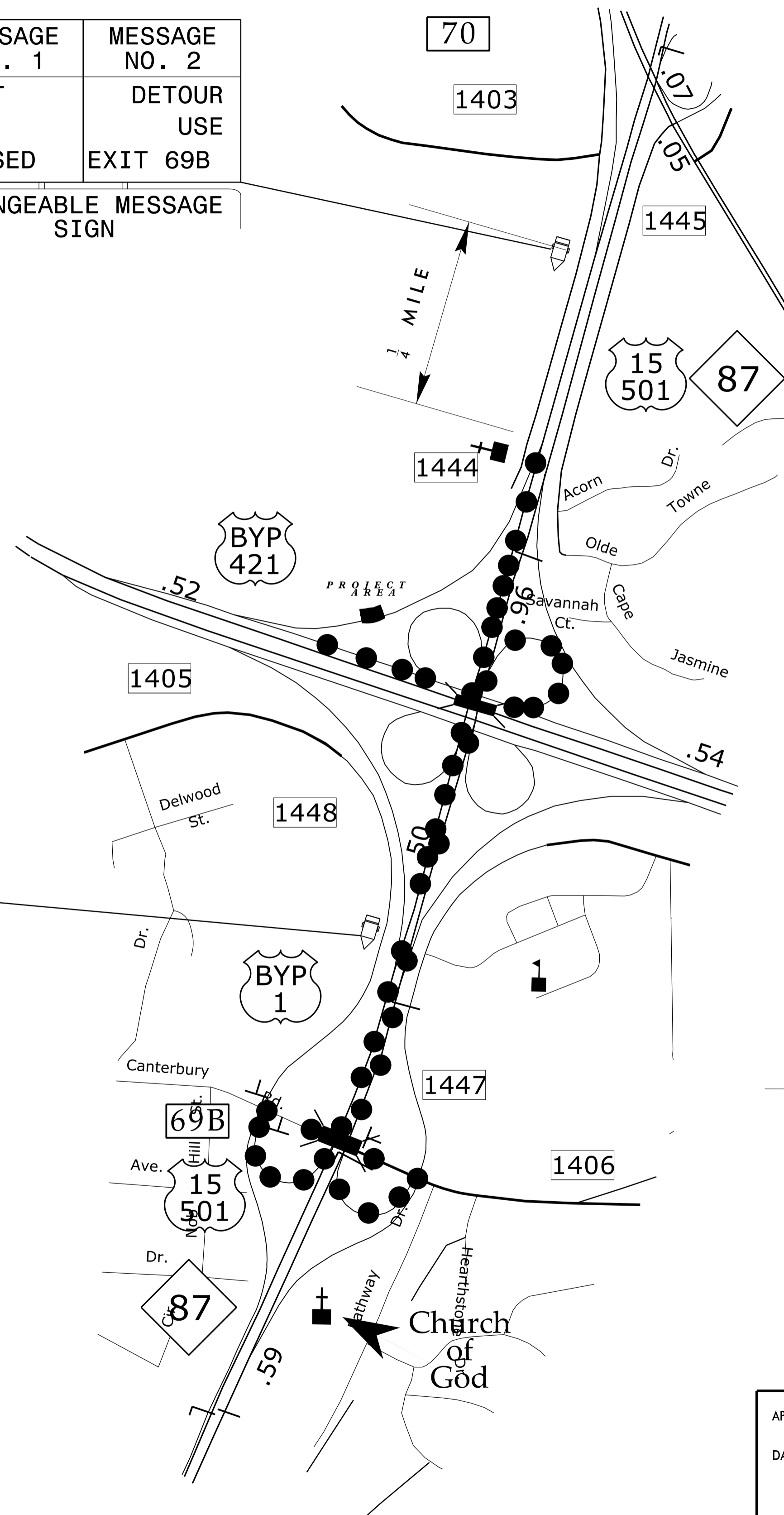
- OPEN US 421 BYP. NB RAMP TO FINAL TRAFFIC PATTERN.

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 gsdavis AT DBCAD-270410

APPROVED: <i>Greg S. Davis</i> DATE: 1/10/2017 		<h1 style="margin: 0;">TRAFFIC OPERATIONS PLAN</h1>
---	---	---

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 70B CLOSED	DETOUR USE EXIT 69B
CHANGEABLE MESSAGE SIGN	

MESSAGE NO. 1	MESSAGE NO. 2
TO US 421 NORTH	DETOUR USE EXIT 69B
CHANGEABLE MESSAGE SIGN	



●●●●● PROPOSED DETOUR ROUTE

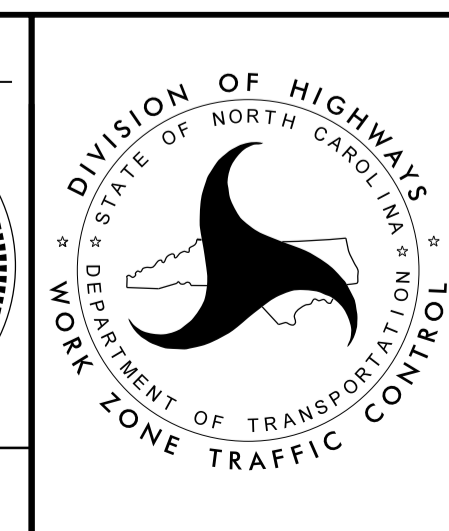
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 gsdavis AT D8CAD-270410

APPROVED: _____

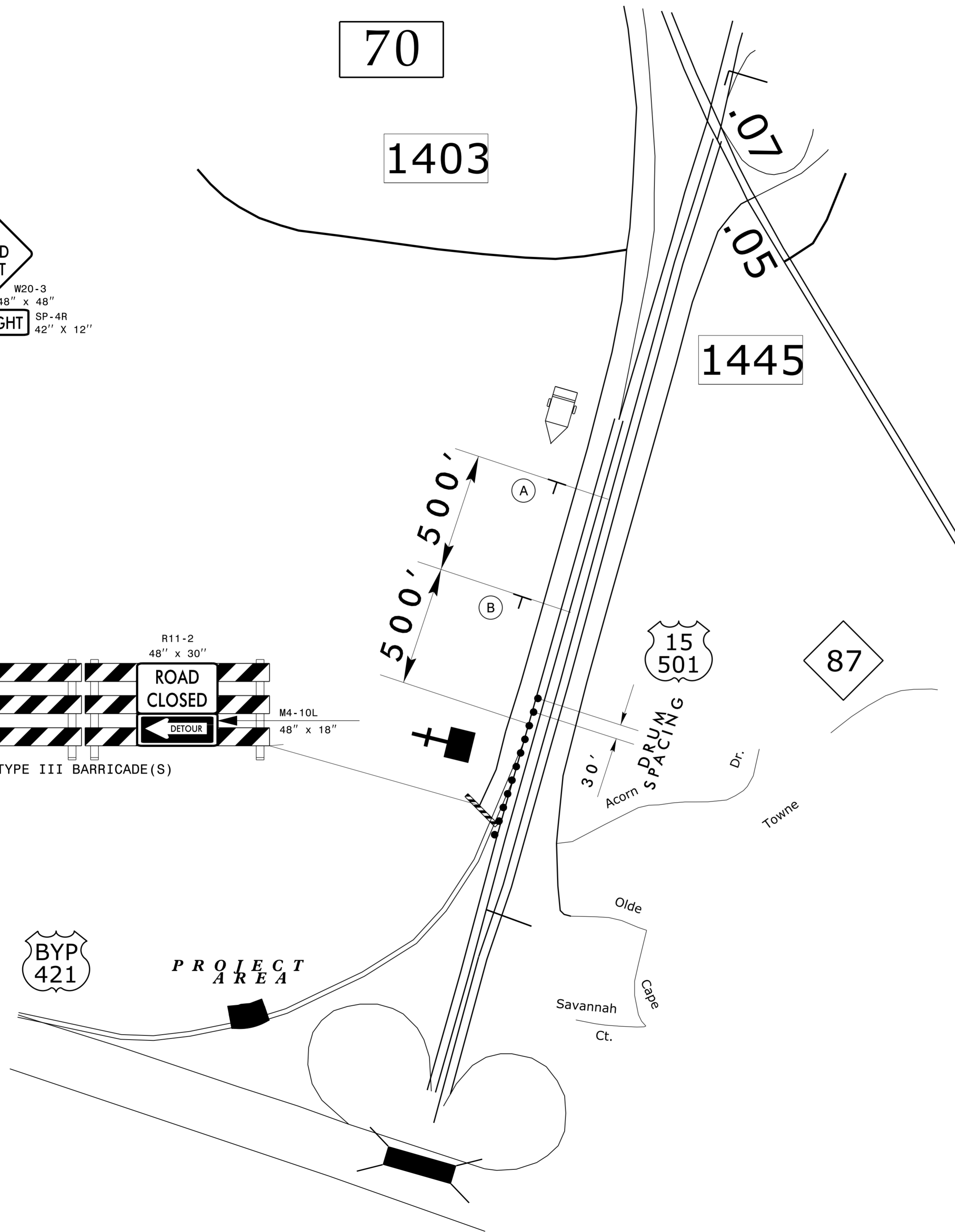
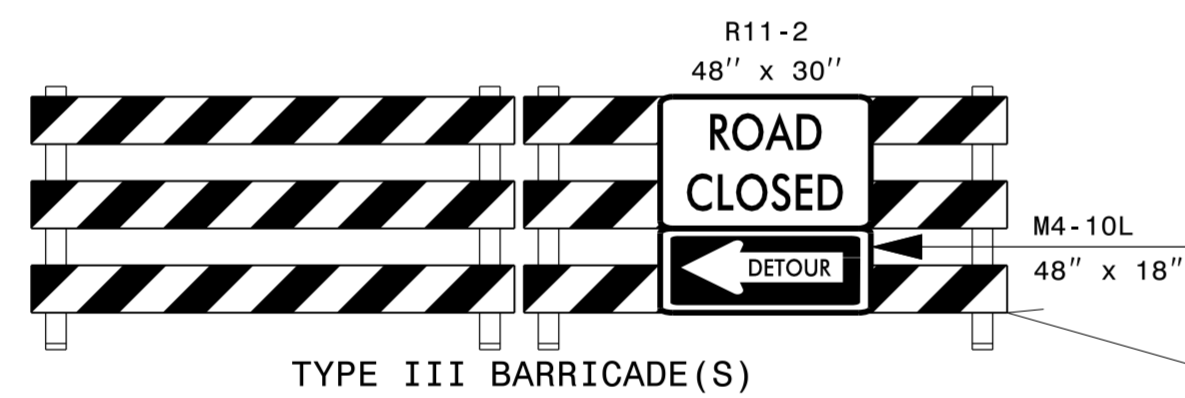
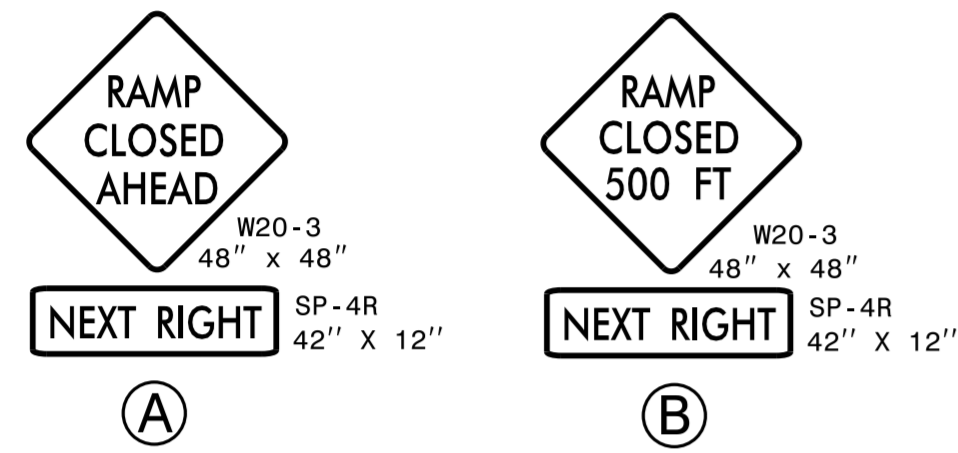
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SEAL

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



**US 421 BYP.
NB RAMP
DETOUR
OVERVIEW**

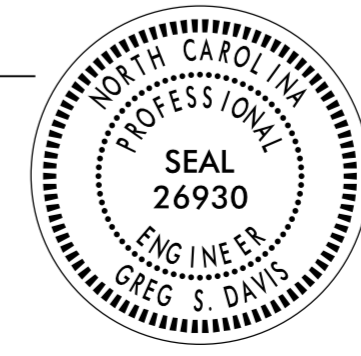


APPROVED: *Greg S Davis*

DATE: 1/10/2017

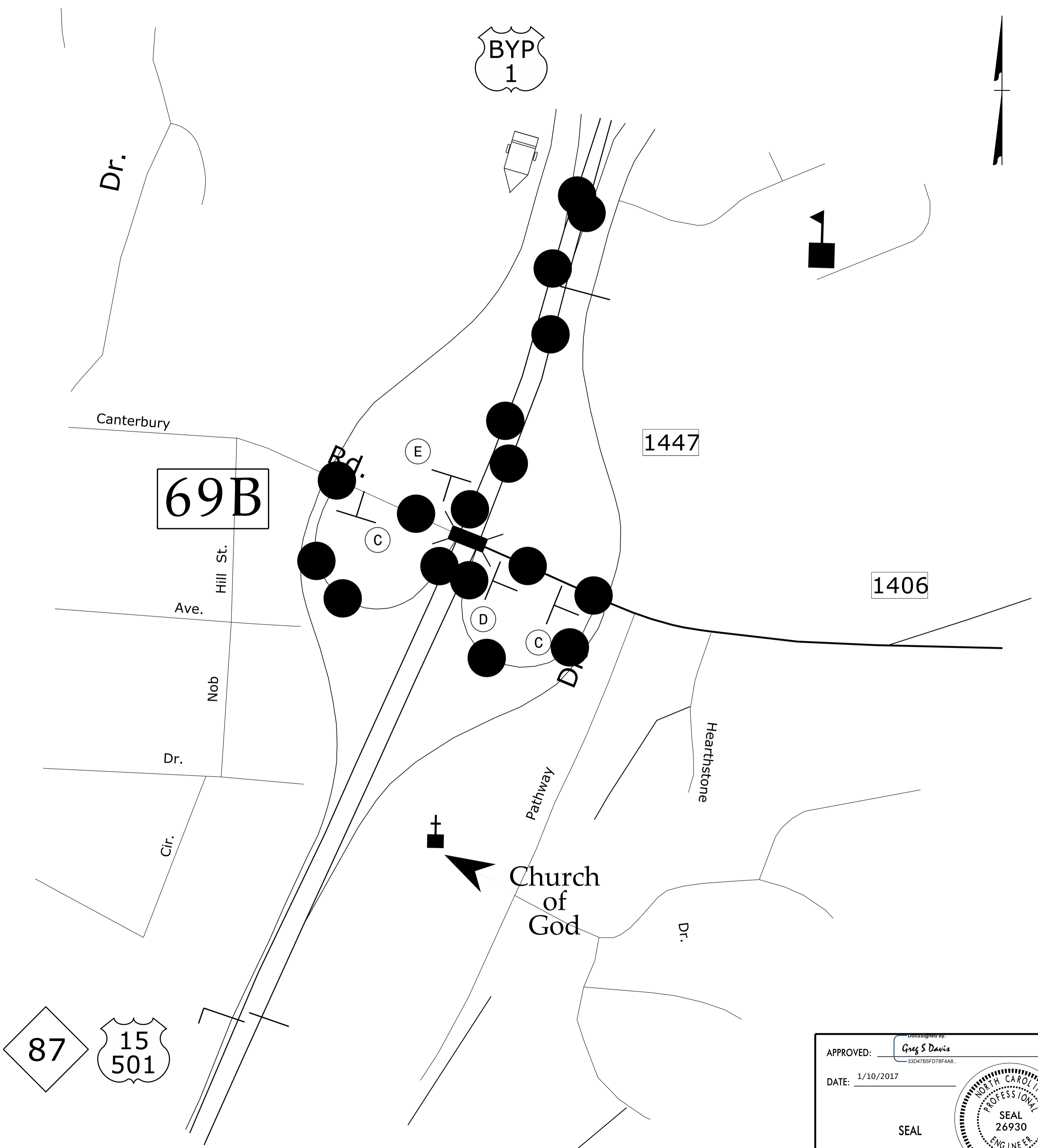
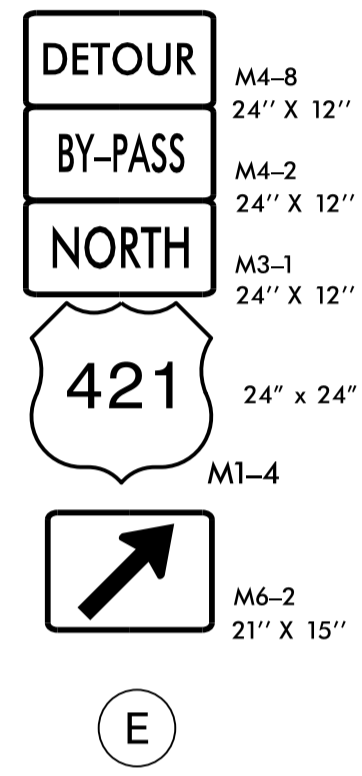
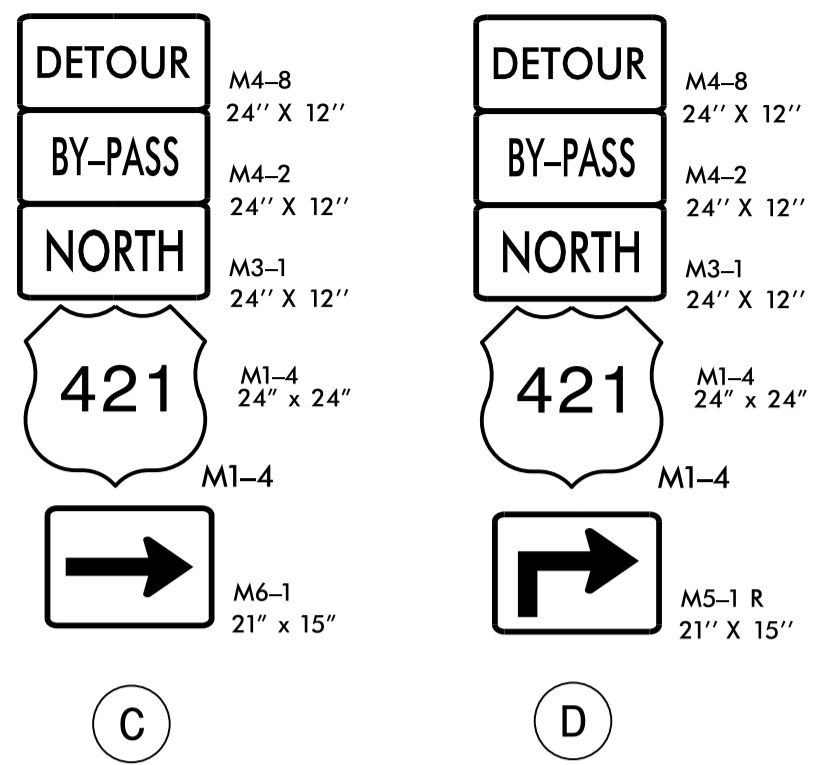
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



**US 421 BYP.
NB RAMP
DETOUR
DETAIL #1**

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gsdavis AT DSCAD-210410

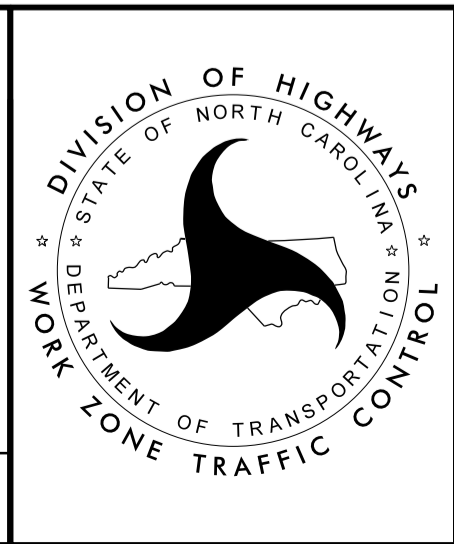


APPROVED: *Greg S. Davis*
3304785F078F448...

DATE: 1/10/2017

SEAL

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



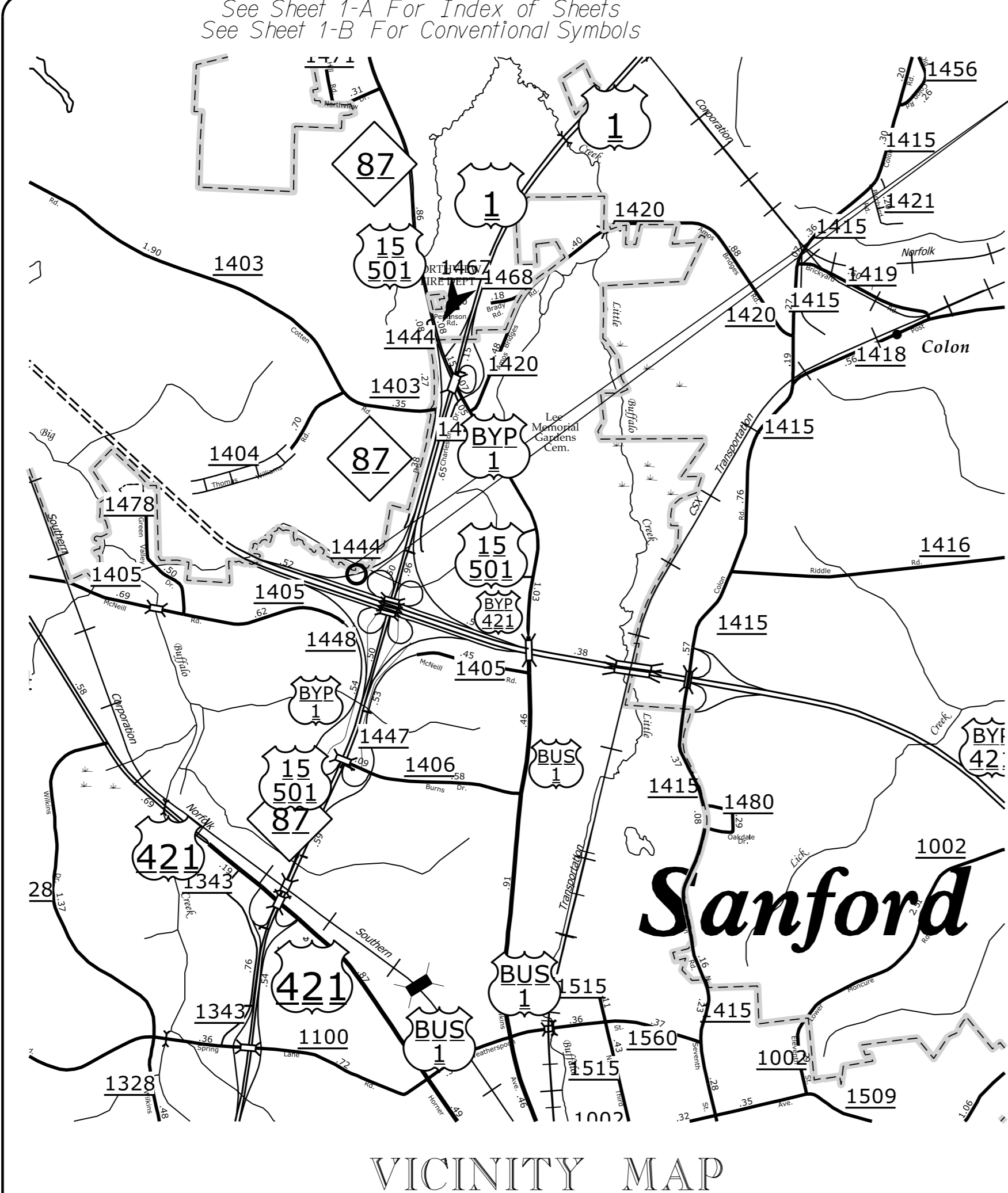
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NB RAMP
DETOUR
DETAIL #2**

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 gsdavis AT DBCAD-270410

09/08/19

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols

TIP NUMBER R-2417AA PROJECT: US 421 NB RAMP SLOPE FAILURE

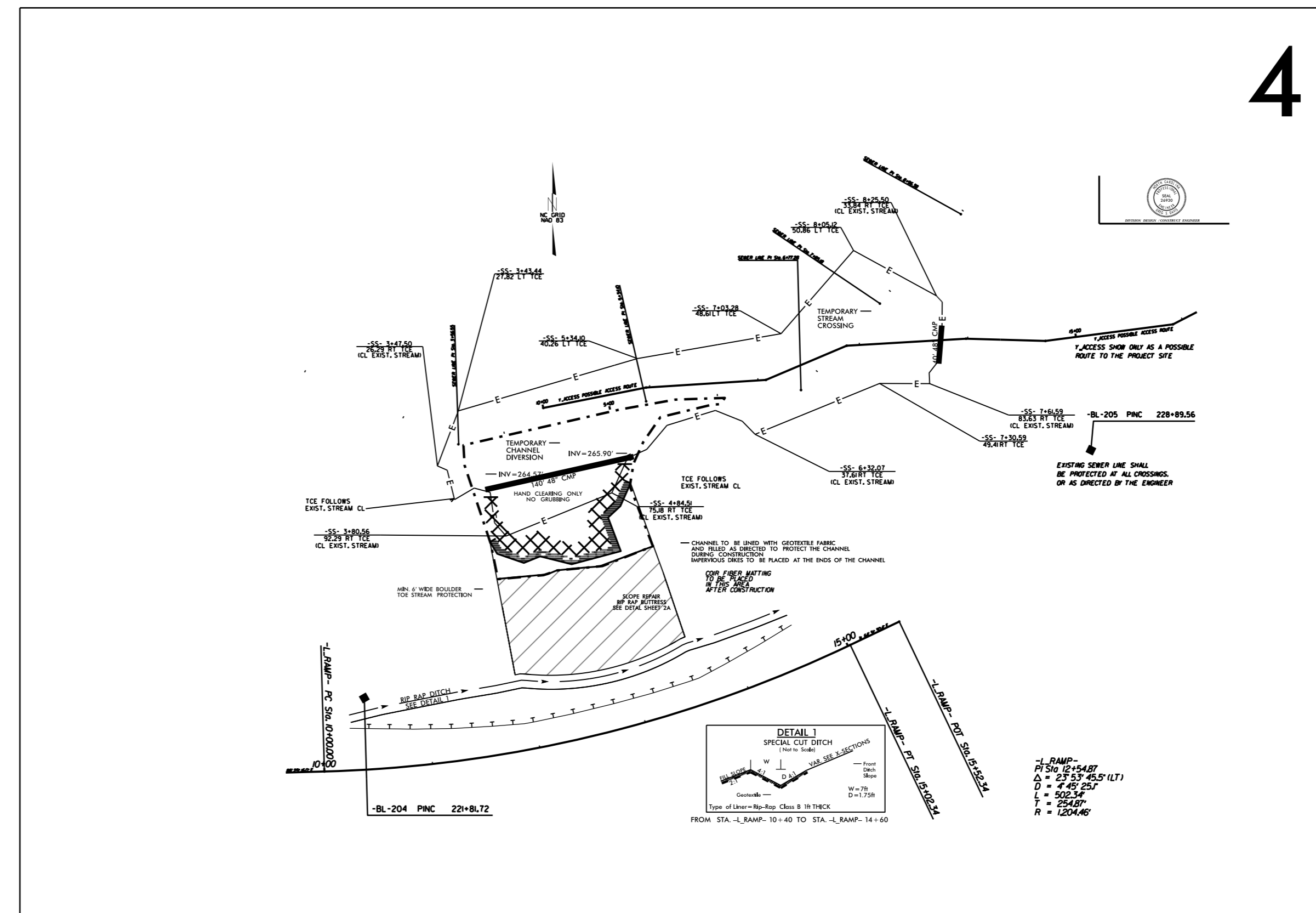


VICINITY MAP

PROJECT LOCATION

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

**LOCATION: THE NORTH BOUND OFF RAMP FROM US 1 SB
 FOR US 421 BYP NORTH IN SANFORD**
TYPE OF WORK: GRADING, DRAINAGE, AND EROSION CONTROL



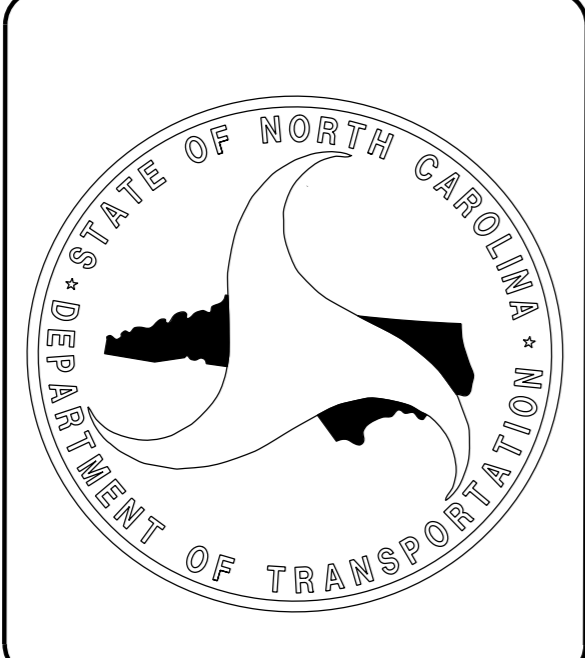
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STATE	WBS ELEMENT	SHEET NO.	TOTAL SHEETS
N.C.	R-2417AA	EC-1	
WBS ELEMENT	F.A. PROJ. NO.	DESCRIPTION	
WBS #	34431.3.7	PE, RW, CONST.	

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	— T —
1630.05	Temporary Diversion	— T —
1630.06	Special Stilling Basin	— T —
1632.03	Rock Inlet Sediment Trap Type C	□
1635.01	Temporary Rock Silt Check Type-A	▨
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▨
	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	⌋

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

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DCN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$



Prepared By:
 Michael Trotter
 Level III A #3149
 December 31, 2017
 PROJECT CONTACTS:
 District Engineer Travis Morgan, PE
 Design & Construct Engineer Greg S. Davis, PE
 Resident Engineer Garry Phillips

PROJECT LENGTH
 0.1 mi.

Prepared in the Office of:
DIVISION EIGHT
DESIGN & CONSTRUCT UNIT
 902 N Sandhills Blvd.
 PO Box 1067
 Aberdeen, 28315
2012 STANDARD SPECIFICATIONS

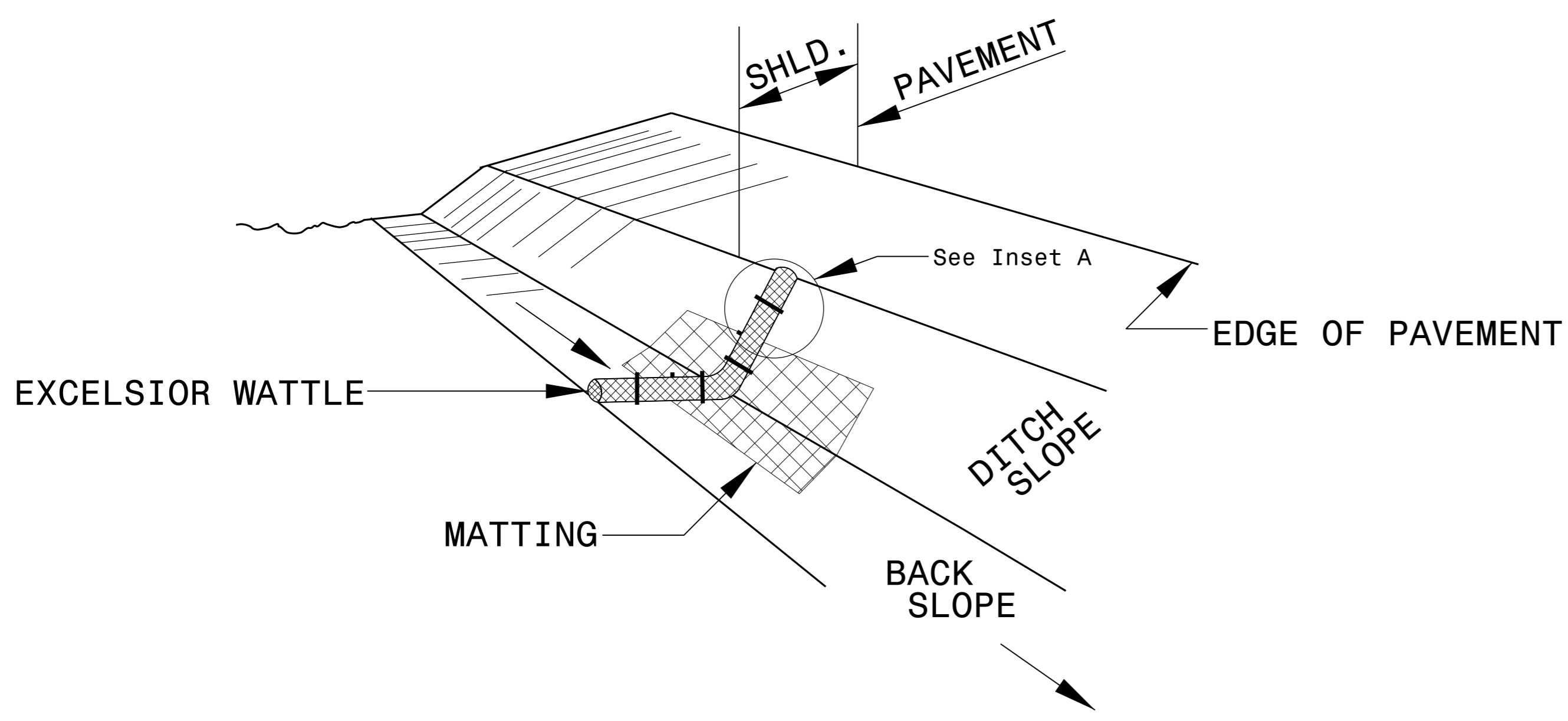
Roadway Standard Drawings
 The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 17, 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered 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

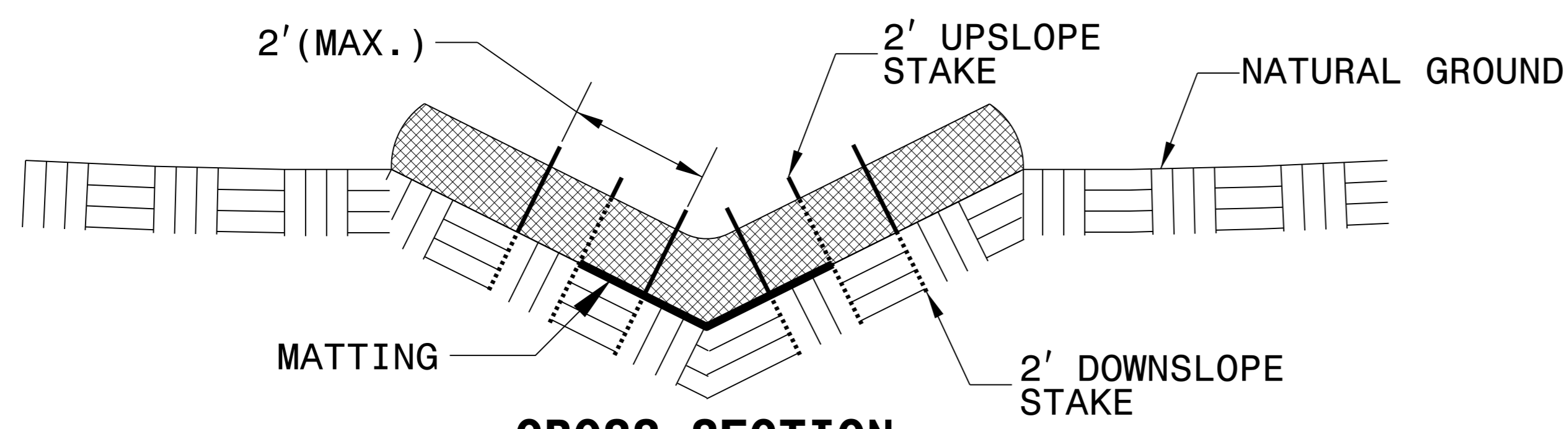
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

NOTES:

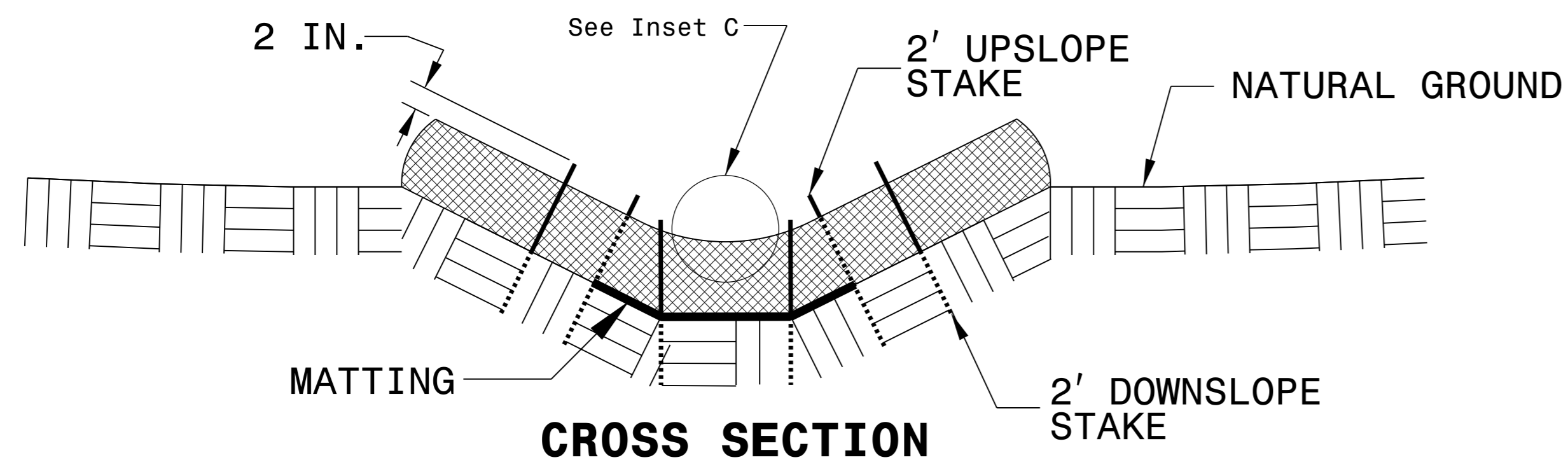
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
- PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
- INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
- PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
- INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



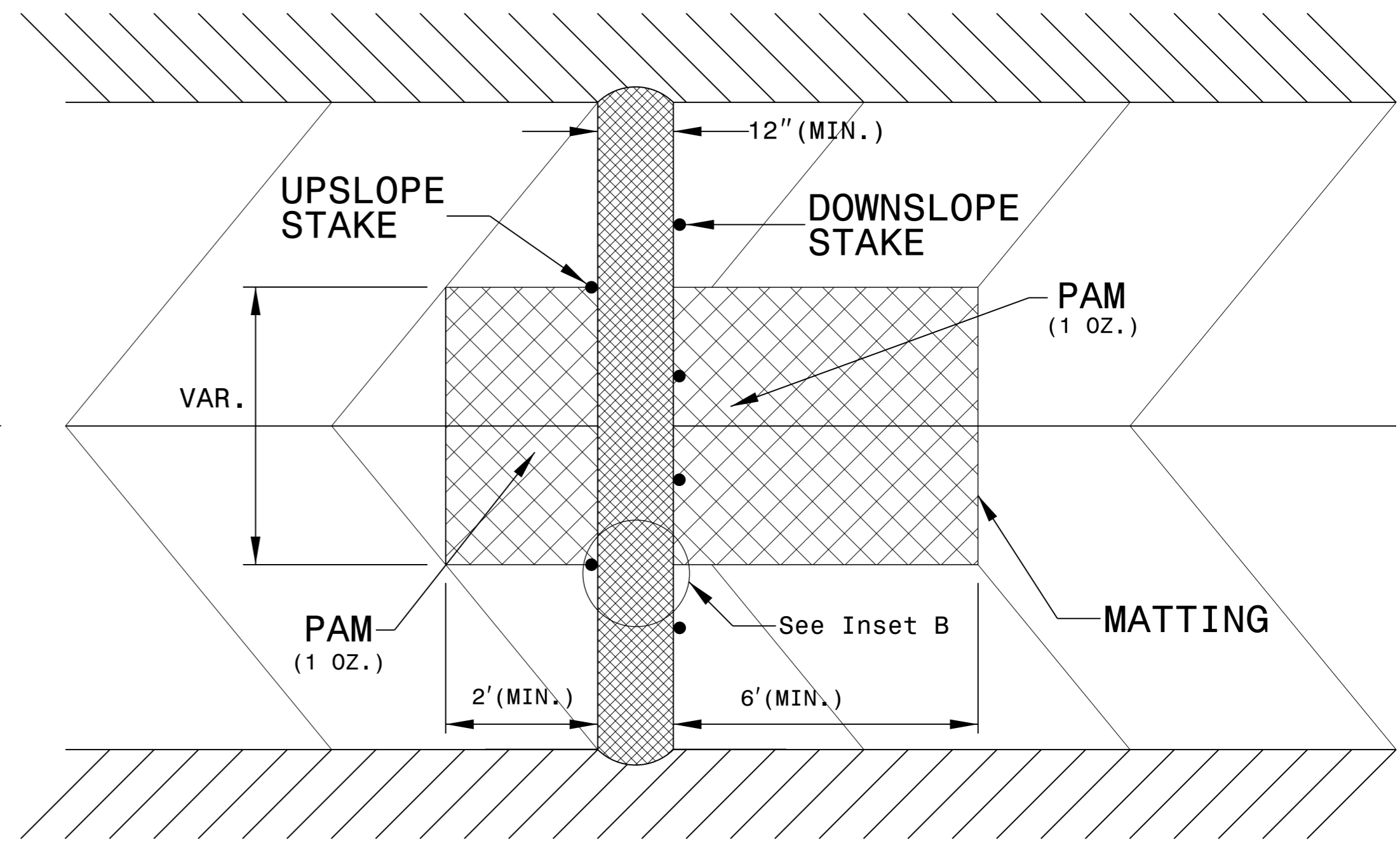
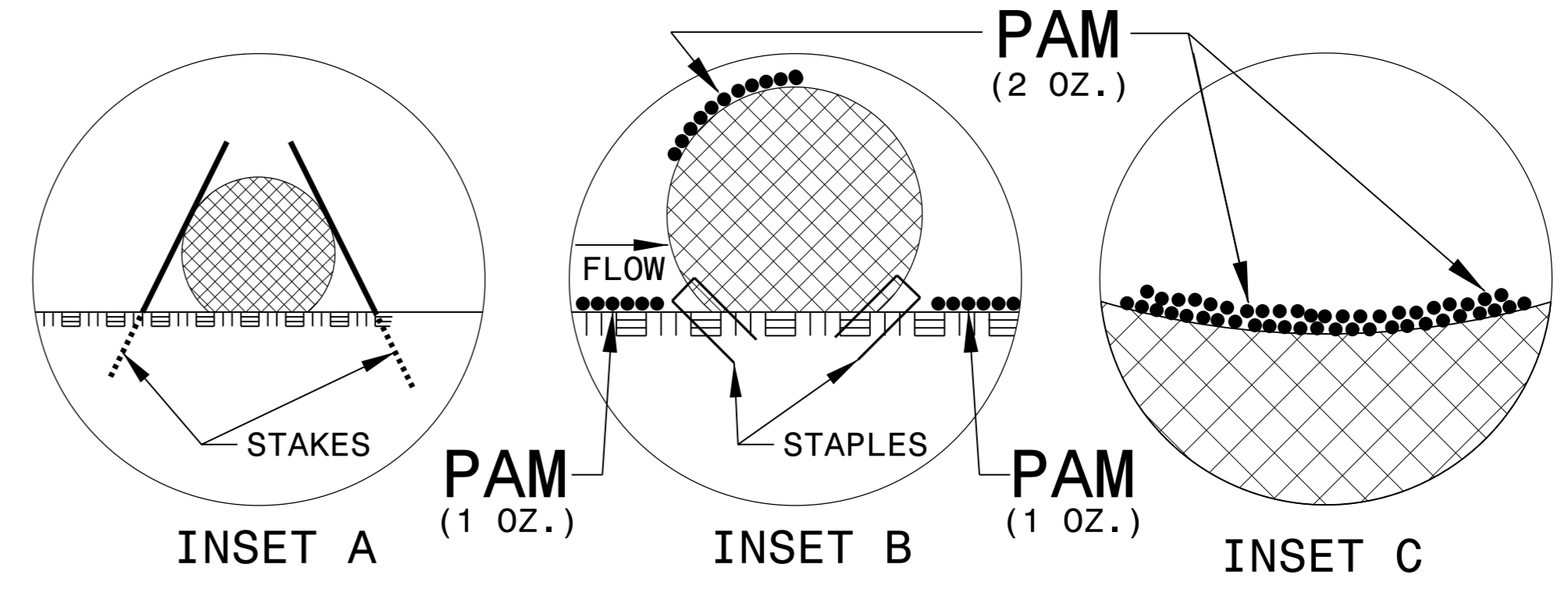
ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH



TOP VIEW

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

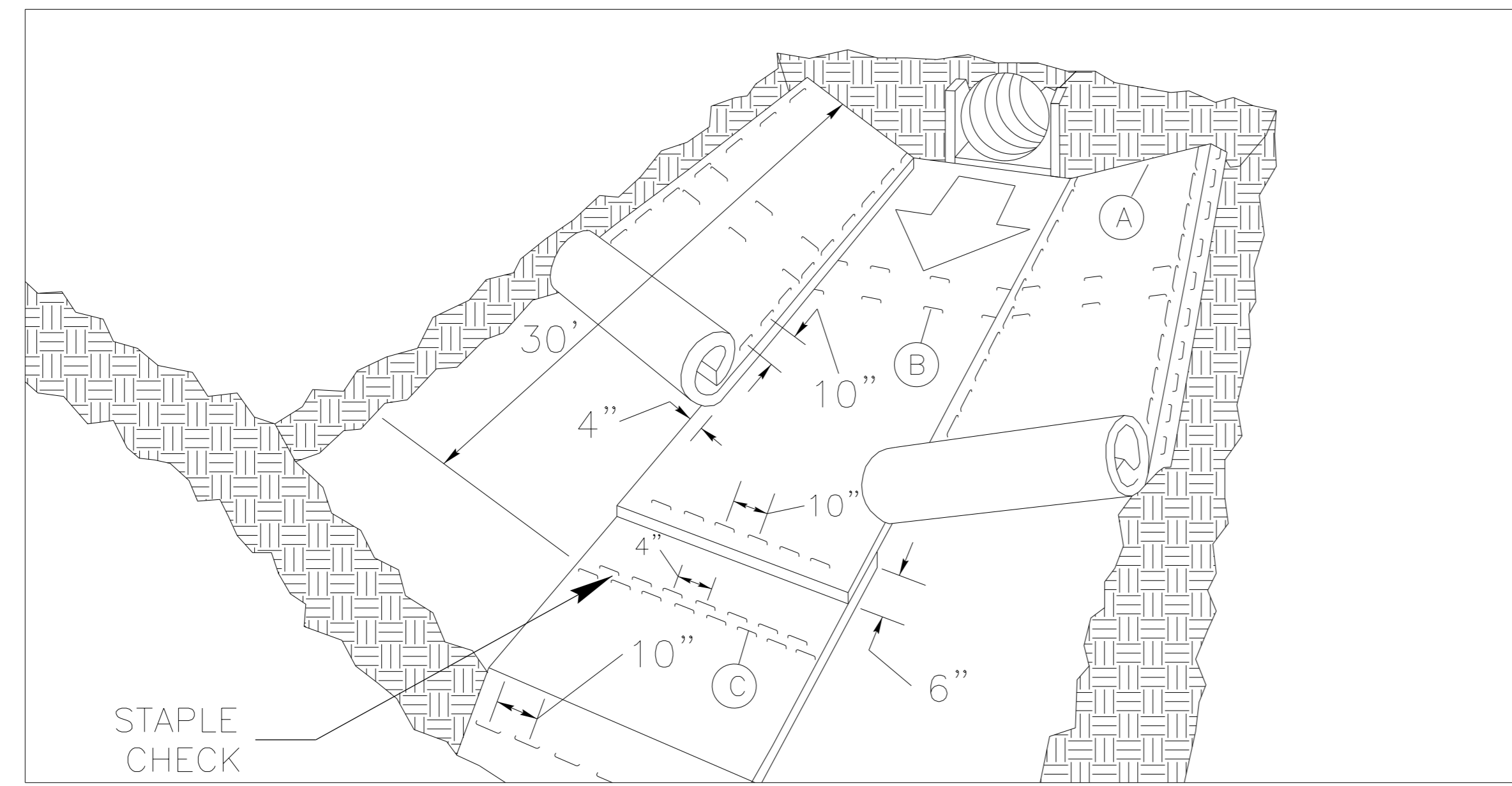
COIR FIBER MATTING FOR EROSION CONTROL

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
EC-4	TEMPORARY CHANNEL				1020
	DIVERSION HAND				
	CLEARED AREA				
			SUBTOTAL		1020
	MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER				
			TOTAL		1020
			SAY		1100

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
EC-4	-L RAMP-	10+00	15+50	LT	3080
	ACCESS ROUTE	8+50	16+00	BOTH	6500
	SHOULDER ON RAMP				2620
			SUBTOTAL		12200
	MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER				650
			TOTAL		12200
			SAY		12850

MATTING INSTALLATION DETAIL



MATTING IN DITCHES

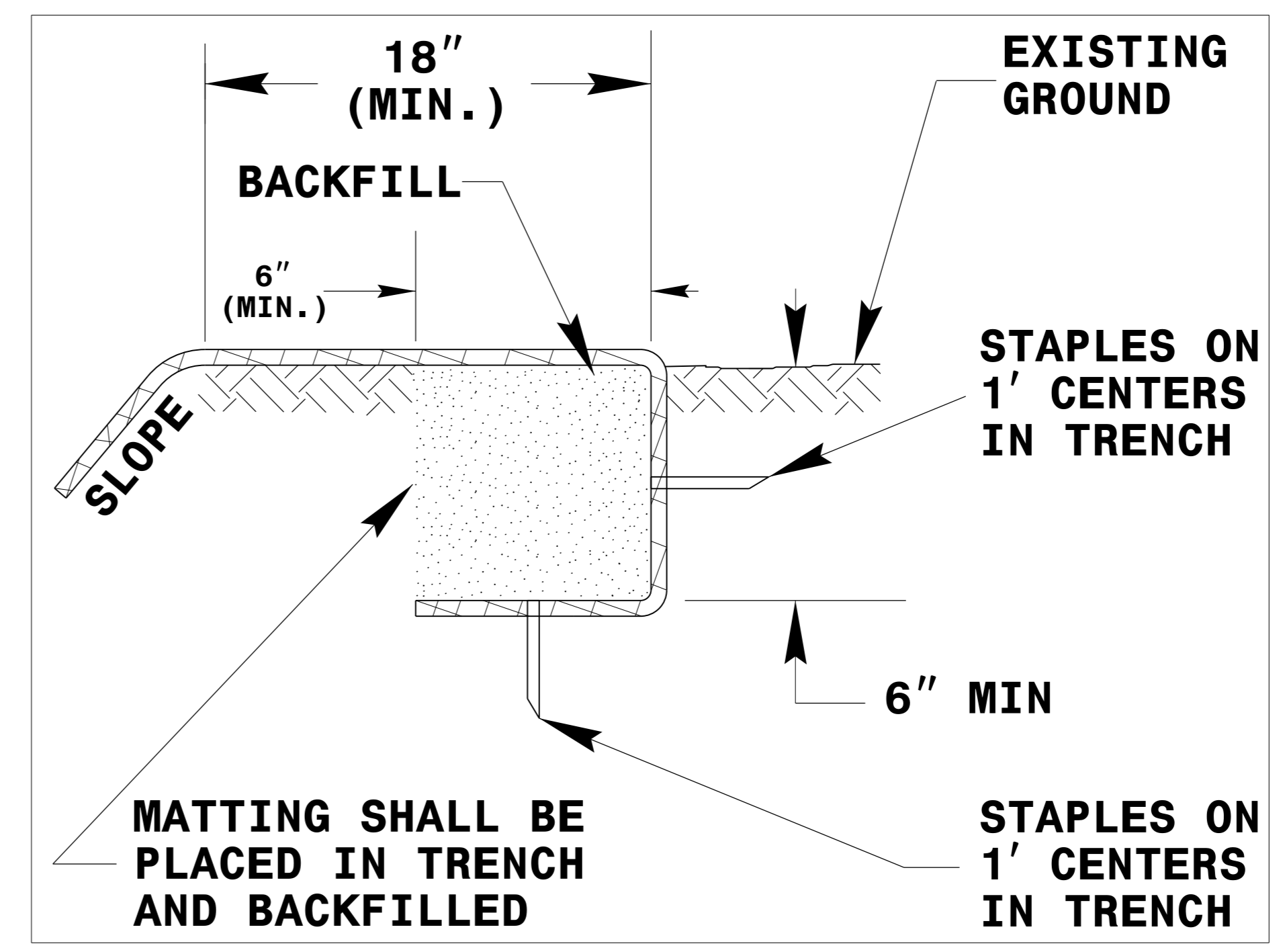
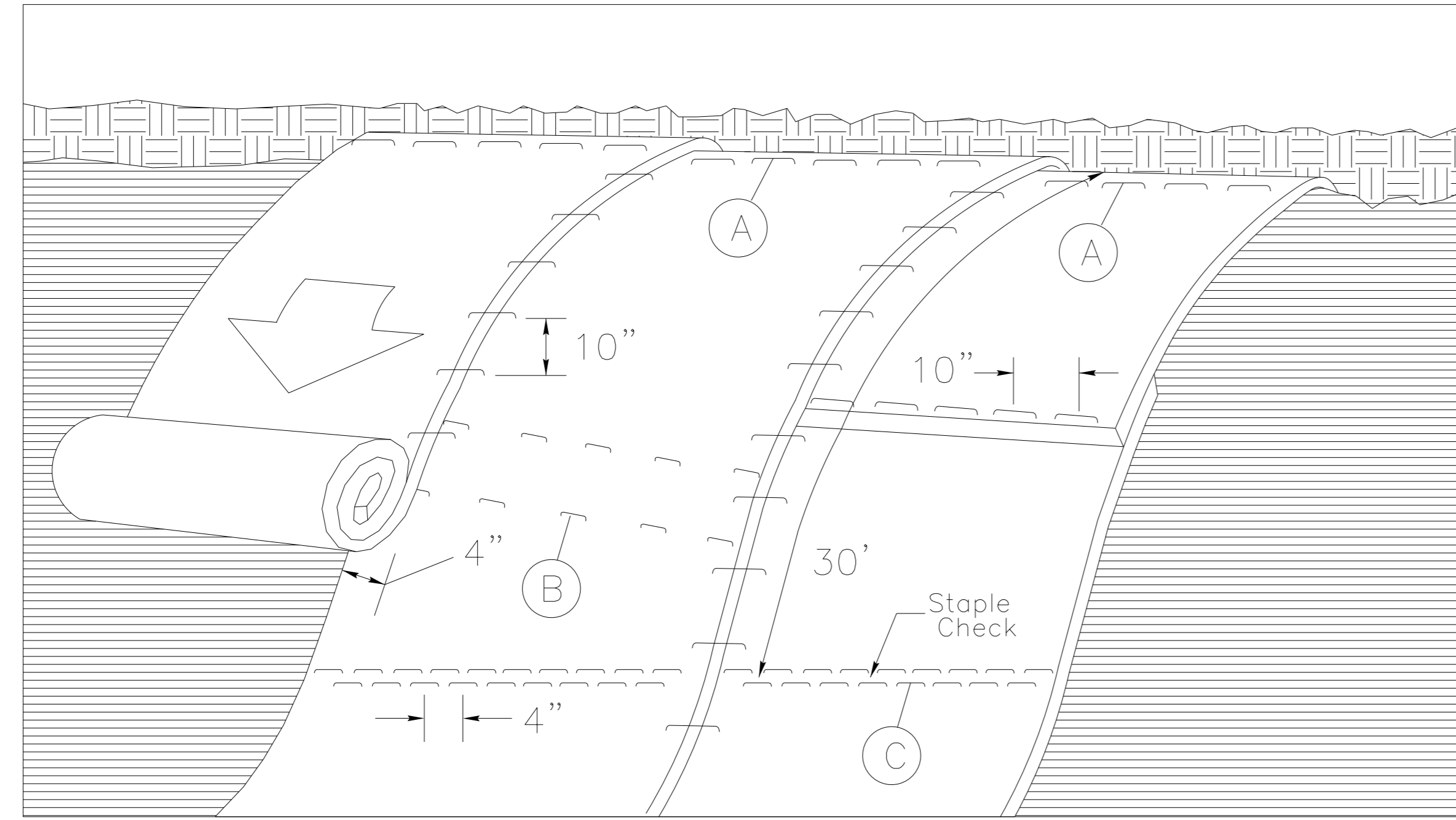


DIAGRAM (A)



MATTING ON SLOPES

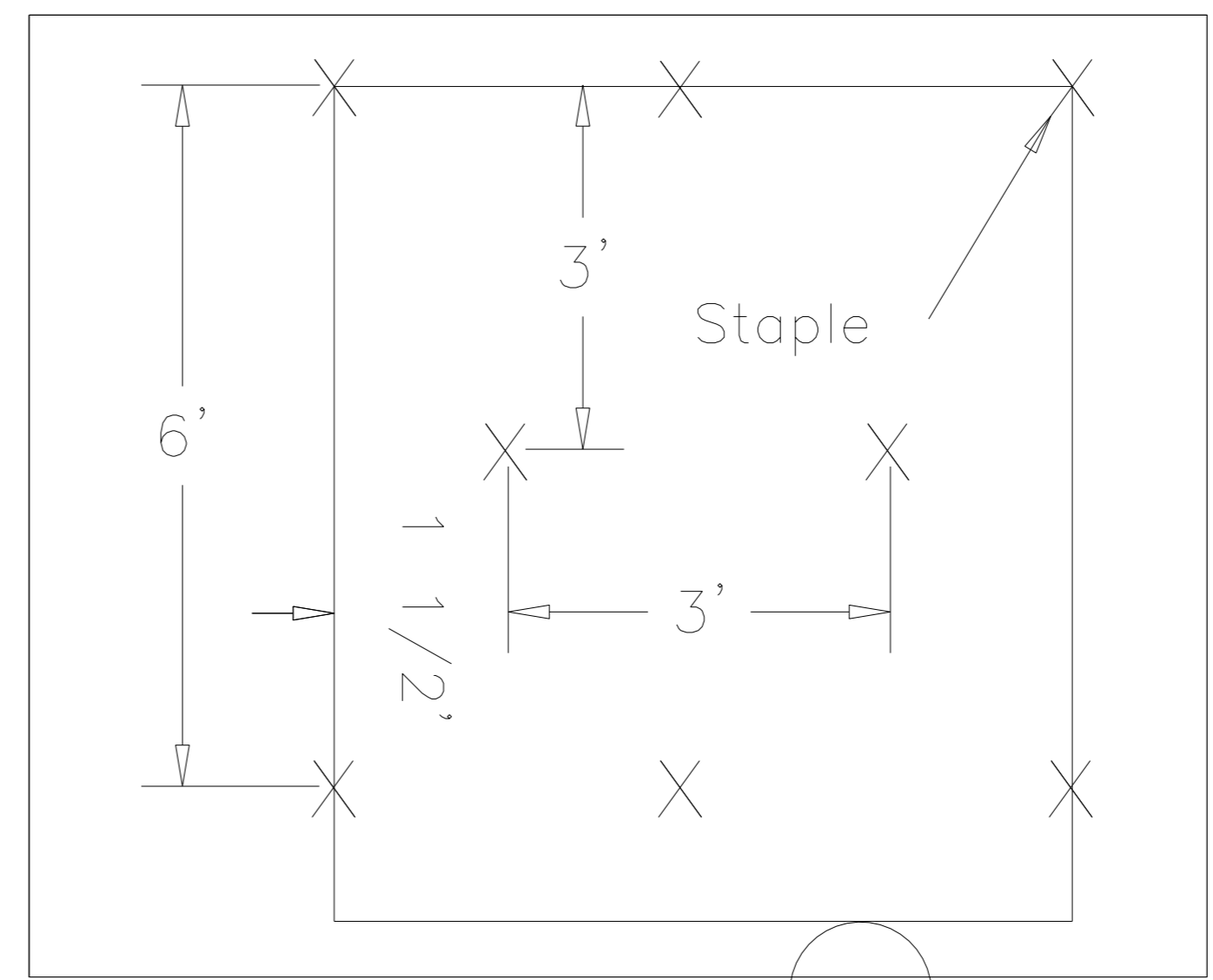


DIAGRAM (B)

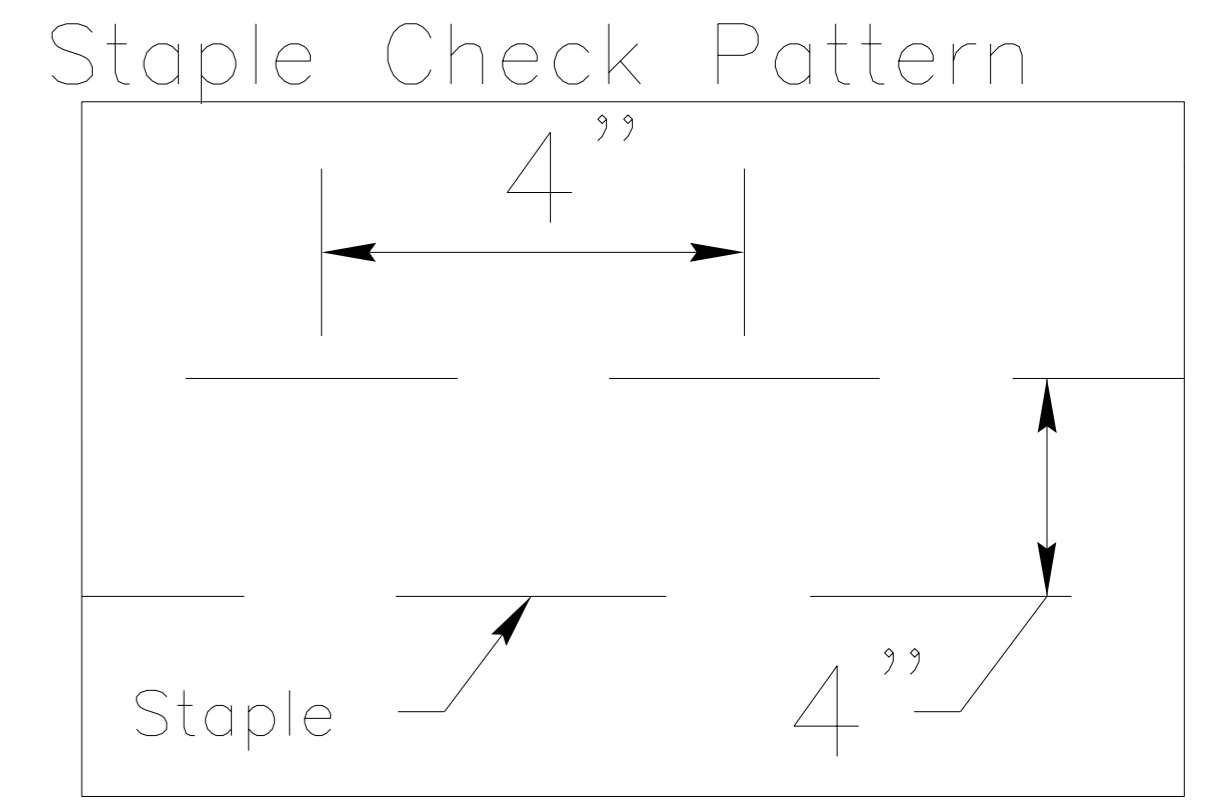
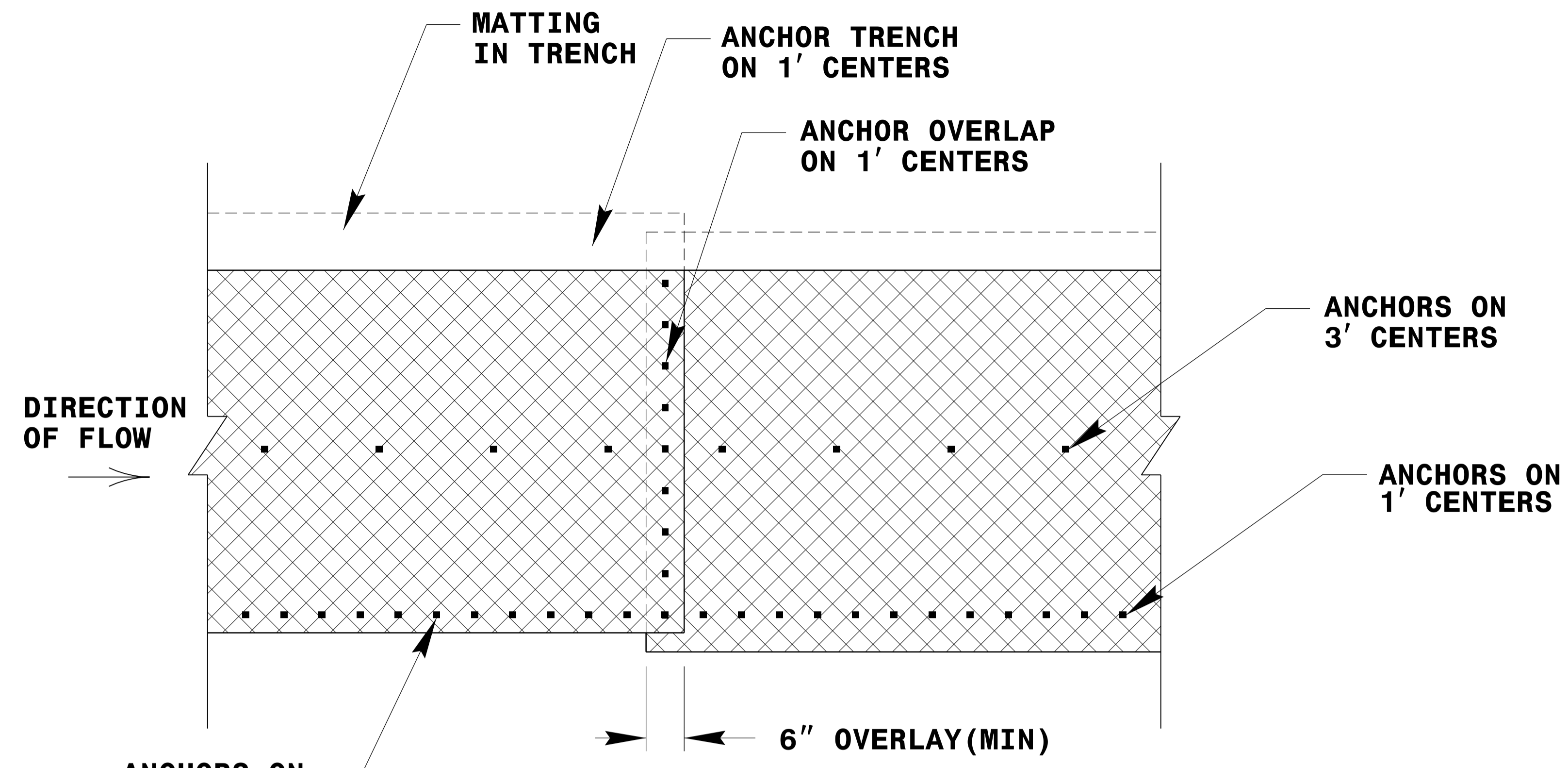


DIAGRAM (C)

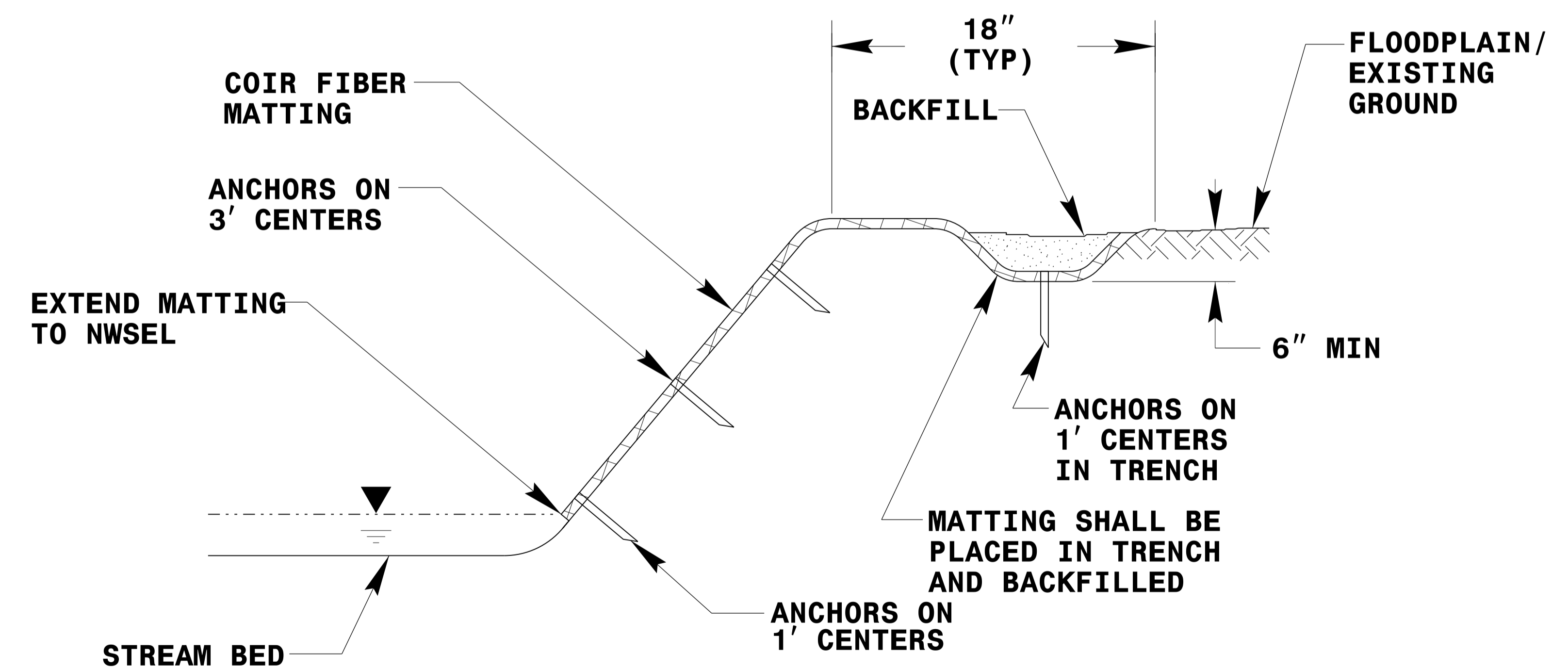
NOTES:

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.

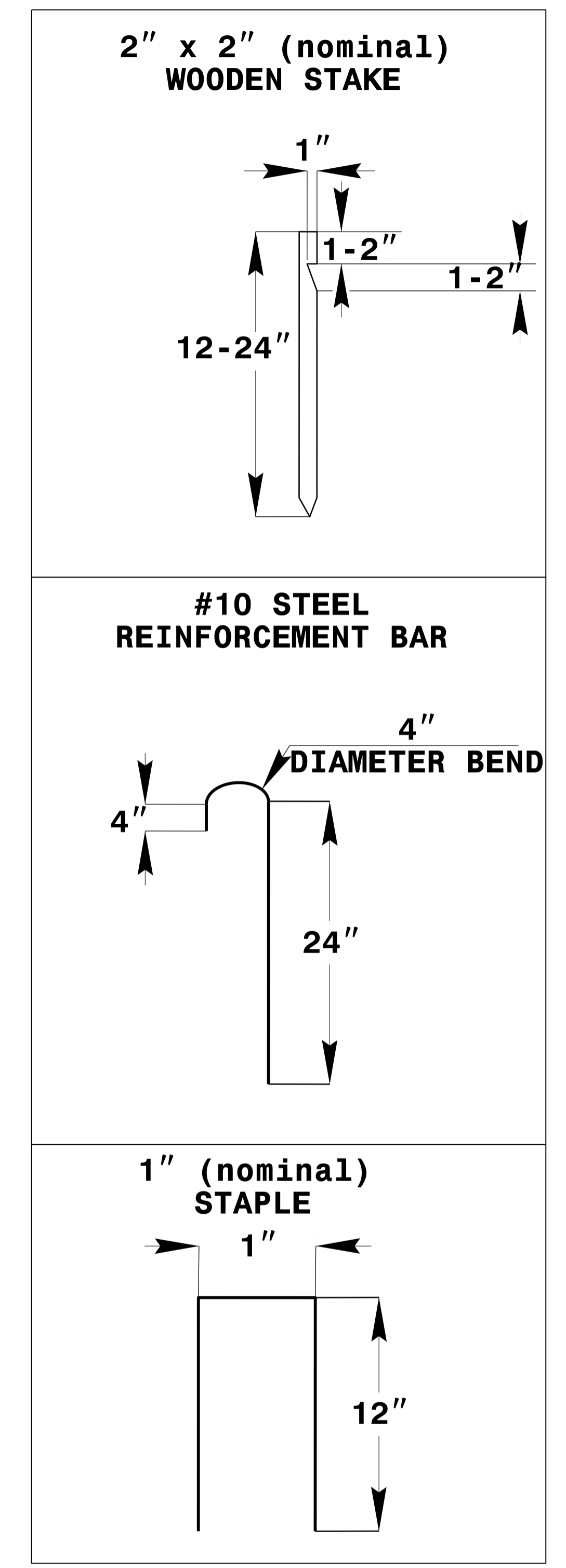
PROJECT REFERENCE NO. R-2417AA	SHEET NO. EC-3C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



PLAN VIEW



TYPICAL CROSS SECTION



ANCHOR OPTIONS

COIR FIBER MATTING DETAIL

NOT TO SCALE

COIR FIBER MATTING DETAIL

N.C.D.O.T. - ROADSIDE ENVIRONMENTAL UNIT

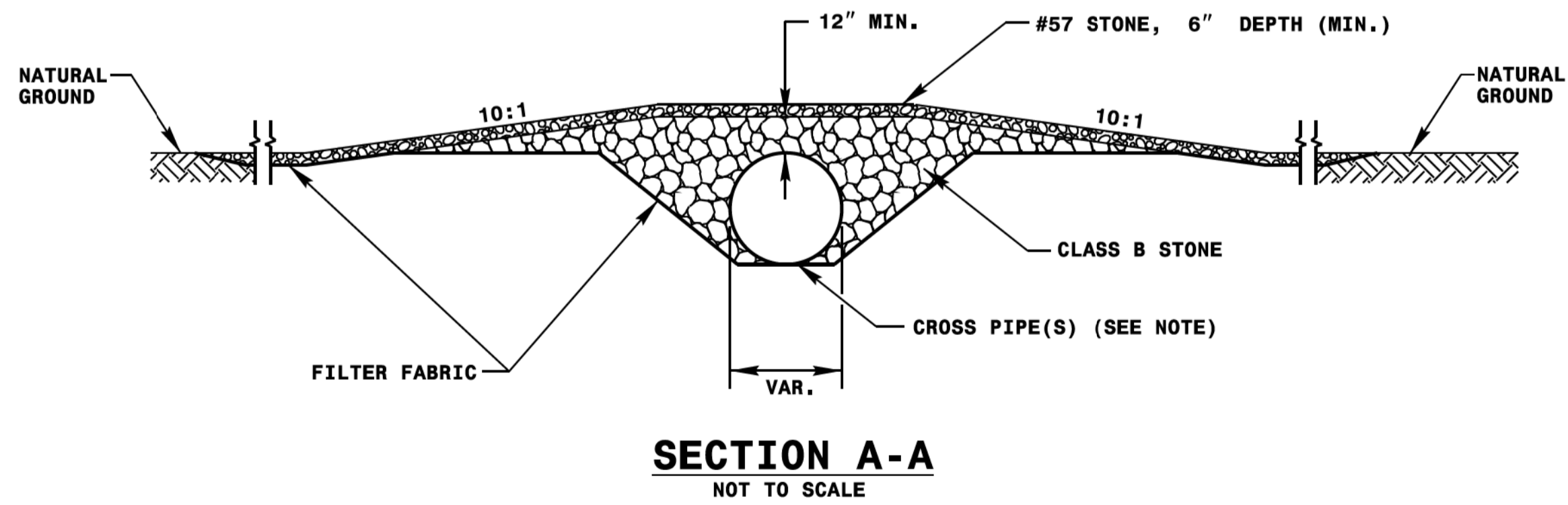
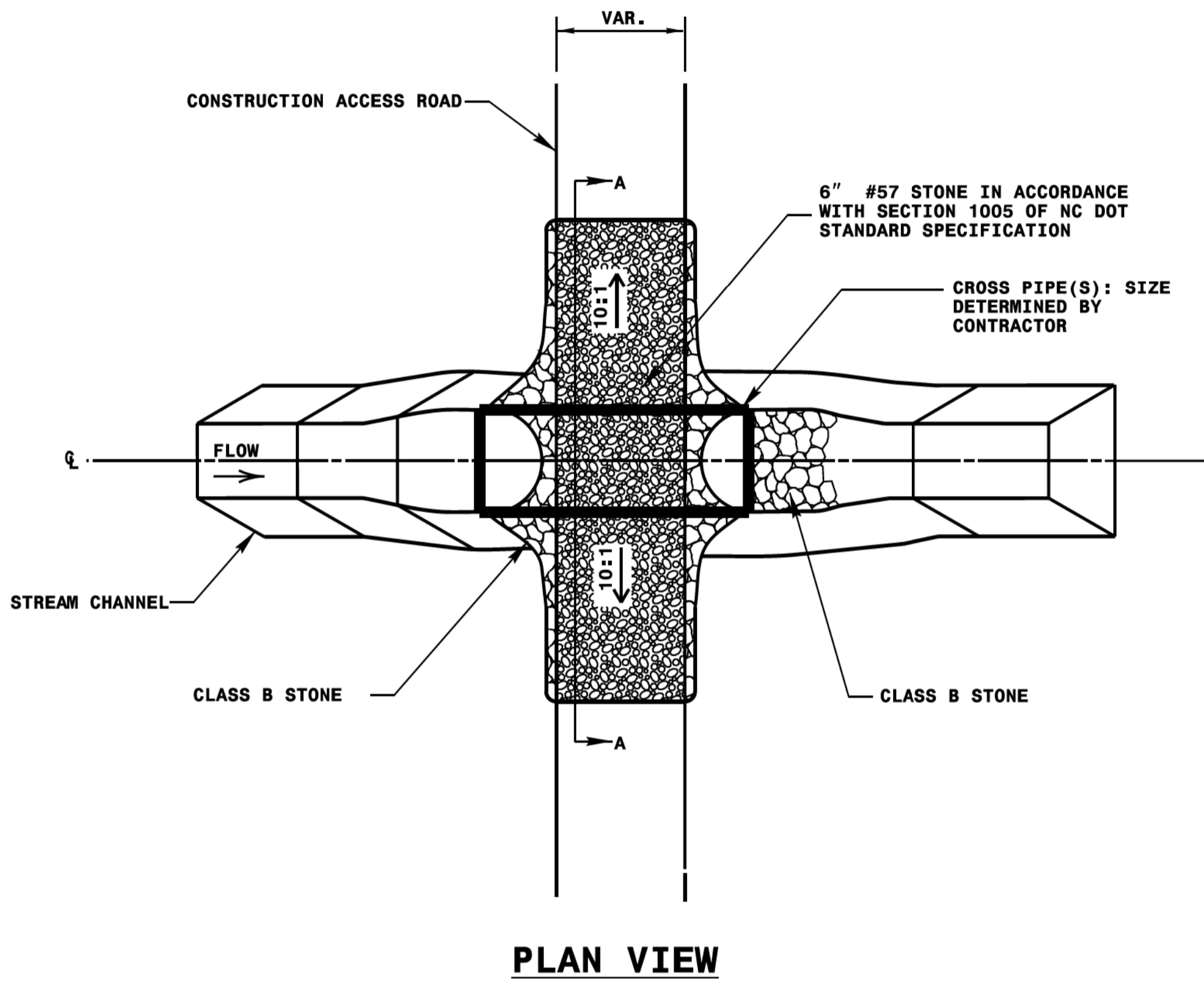
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
TEMPORARY STREAM CROSSING

SHEET 1 OF 1

1645.01



NOTE: PIPE(S) FOR TEMPORARY STREAM CROSSING SHALL BE DESIGNED TO PASS THE PEAK OR BANKFULL FLOW, WHICHEVER IS LESS, FROM A 2-YEAR PEAK STORM, WITHOUT OVER TOPPING.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

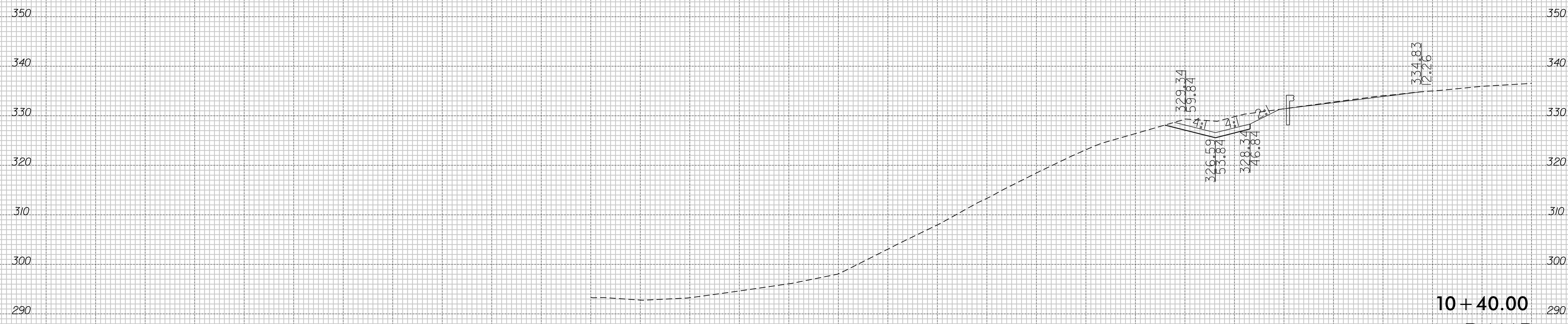
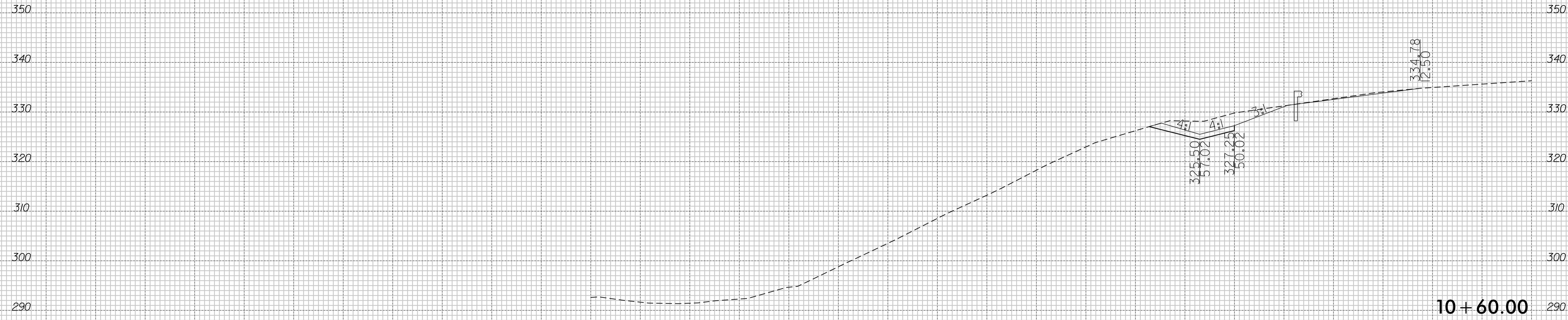
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ENGLISH STANDARD DRAWING FOR
TEMPORARY STREAM CROSSING

SHEET 1 OF 1

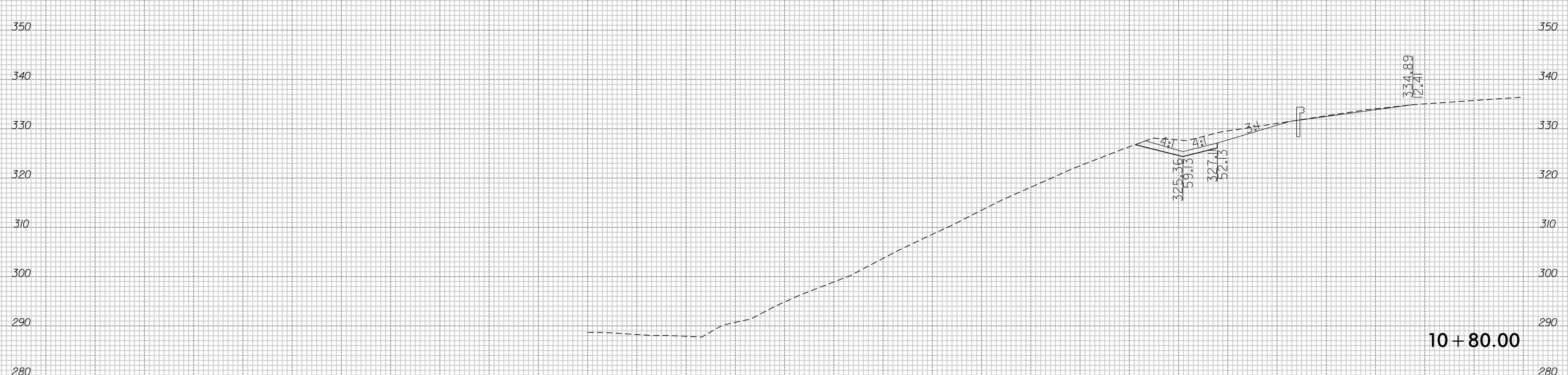
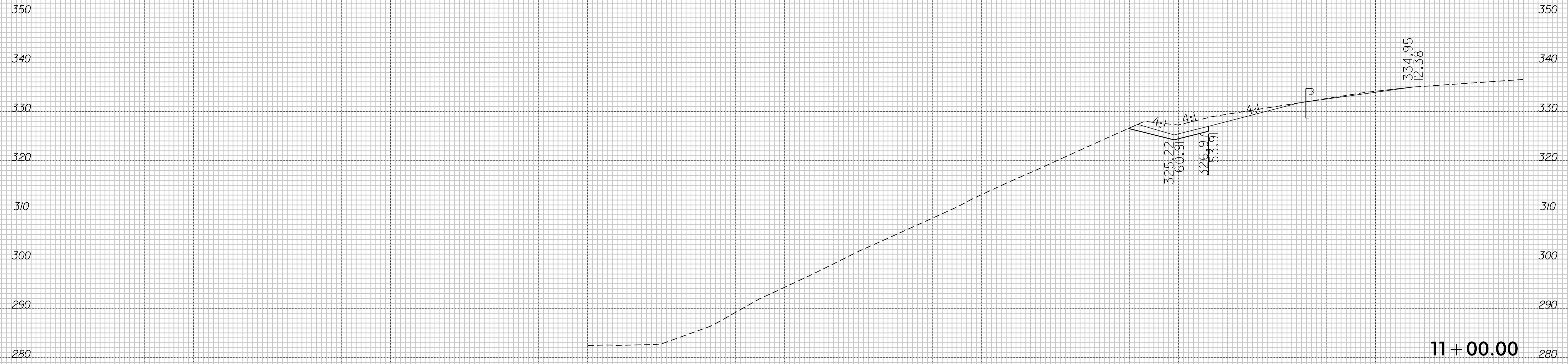
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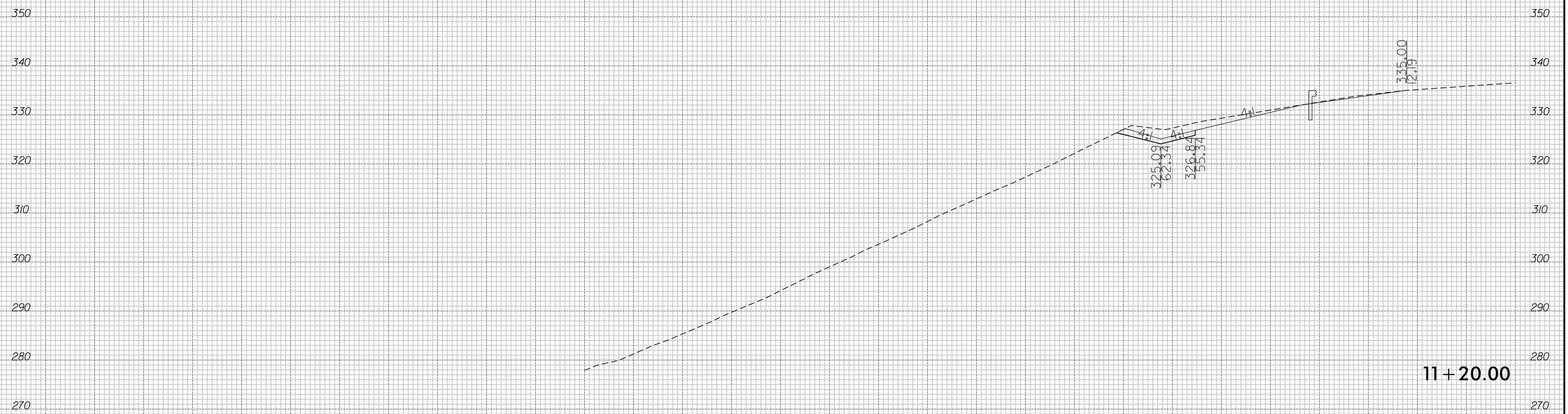
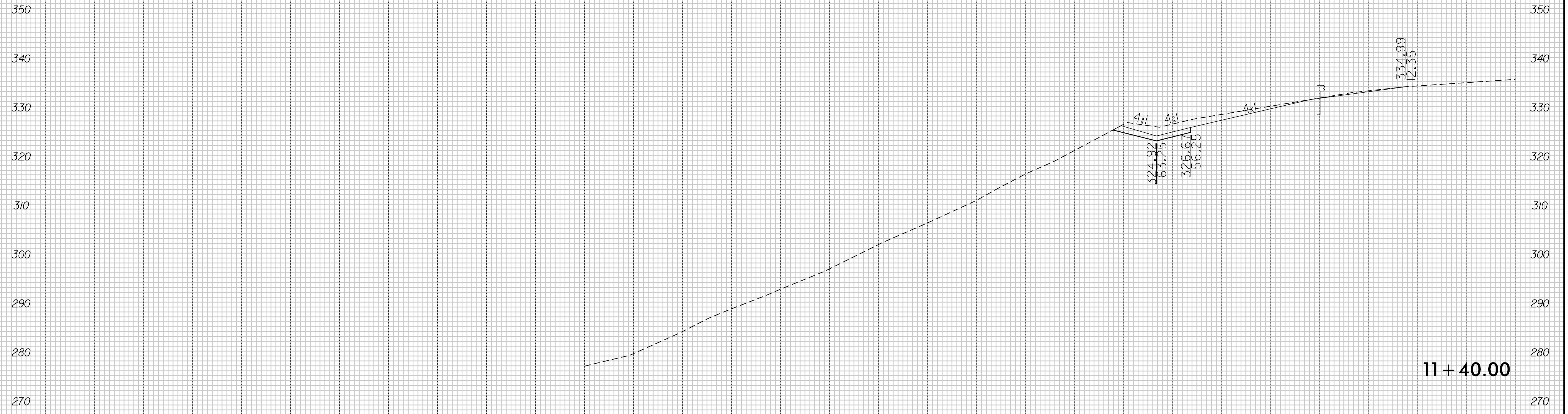
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11 + 40.00

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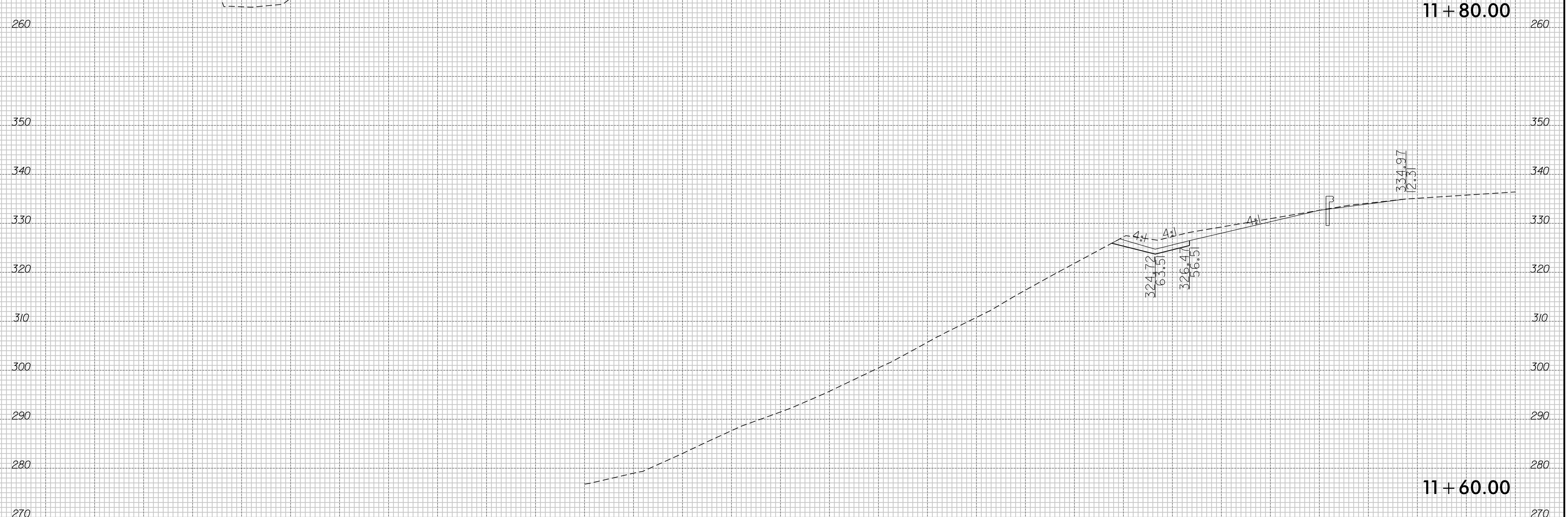
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11 + 80.00



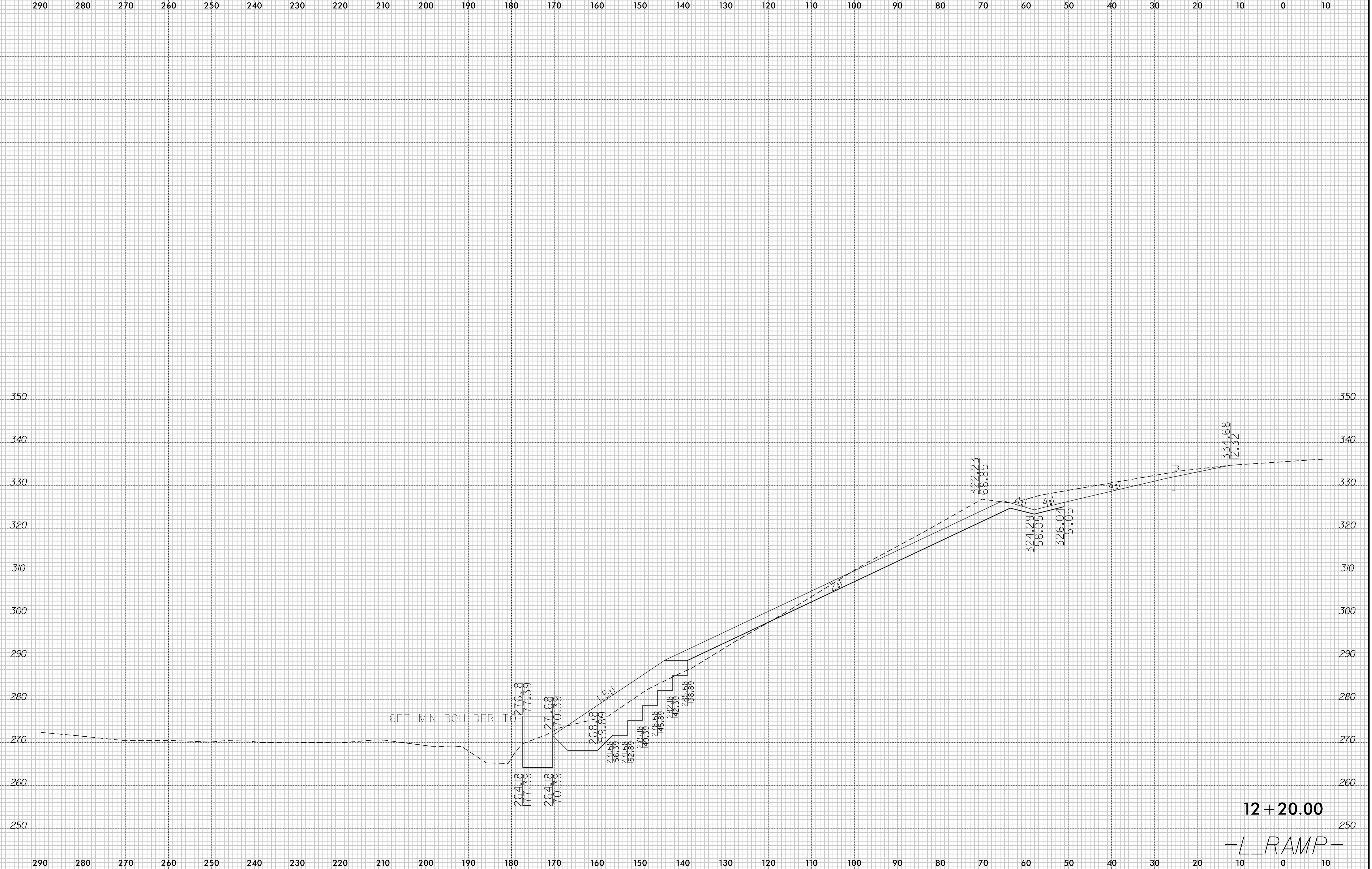
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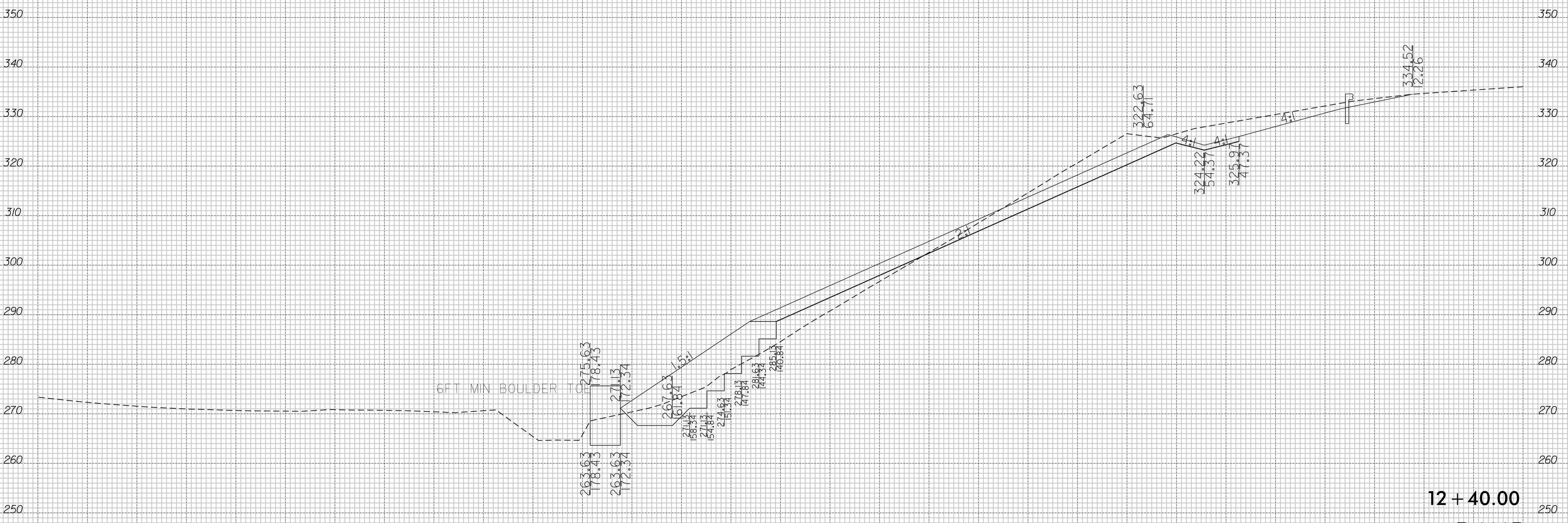
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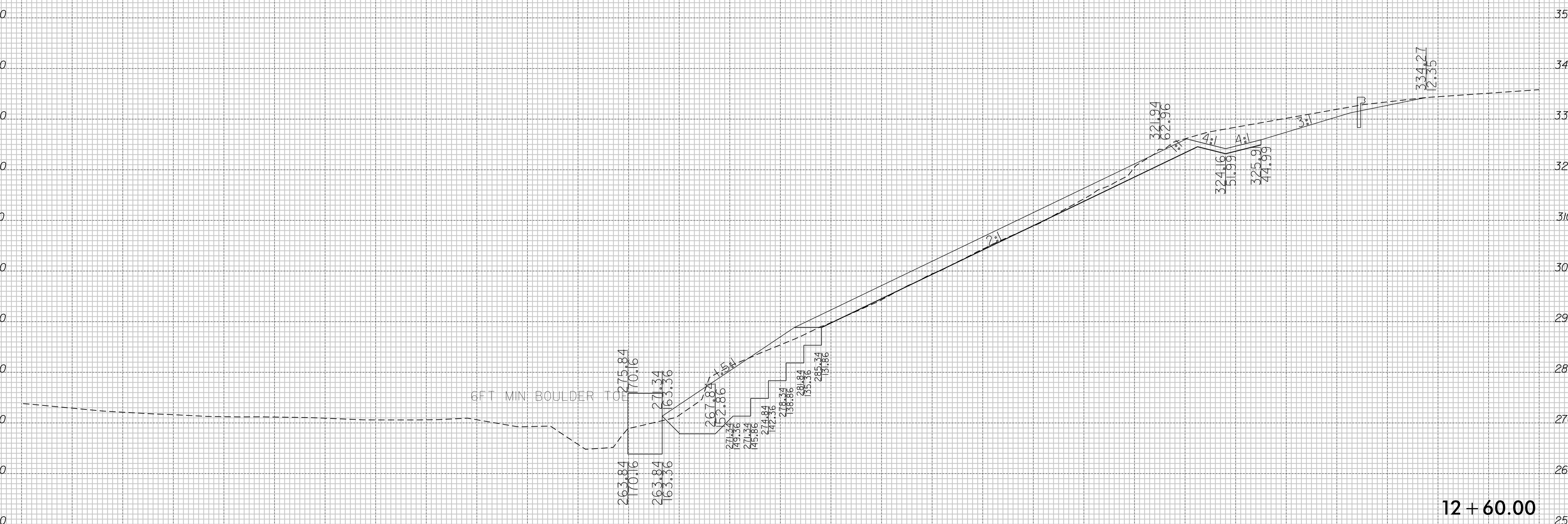
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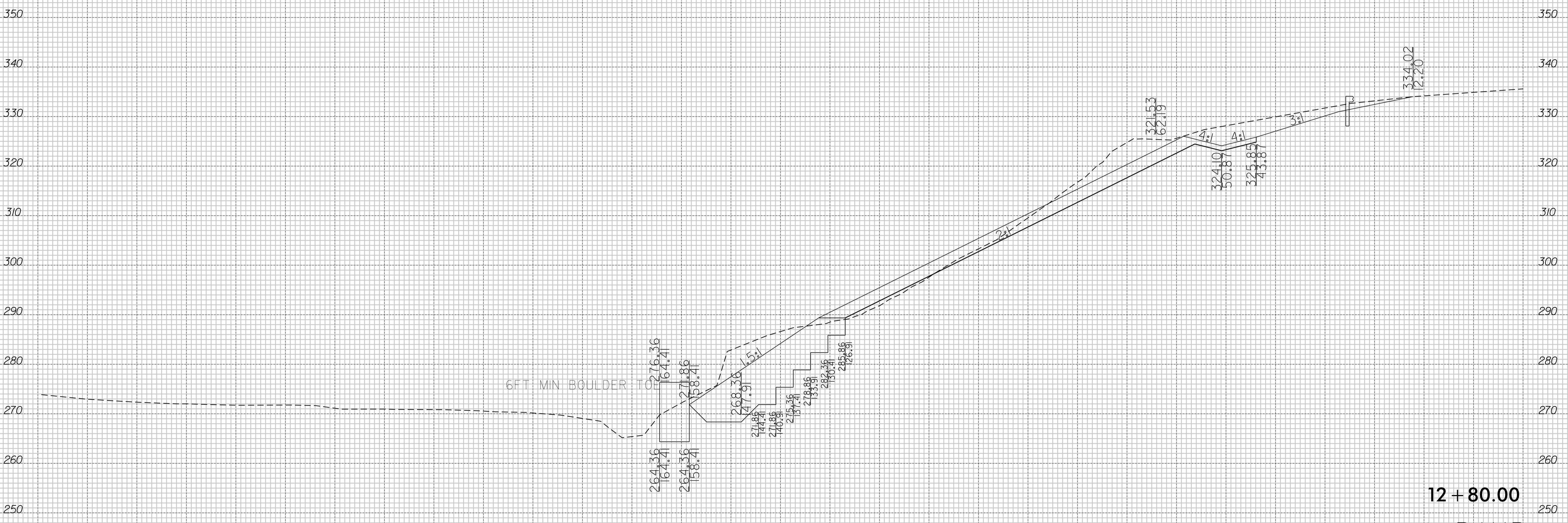
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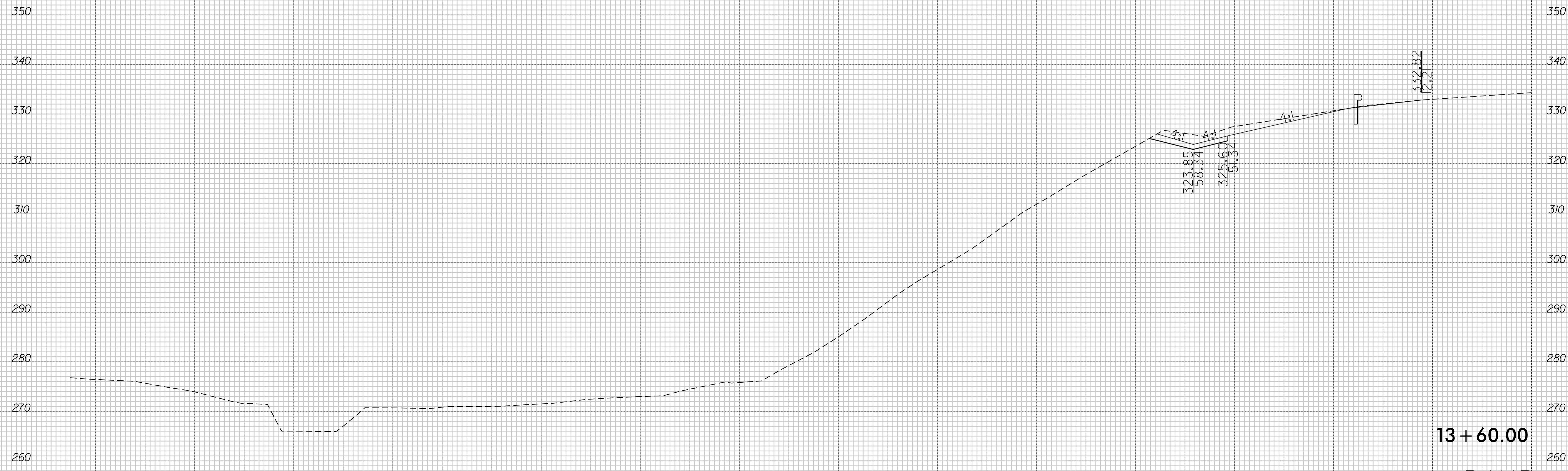
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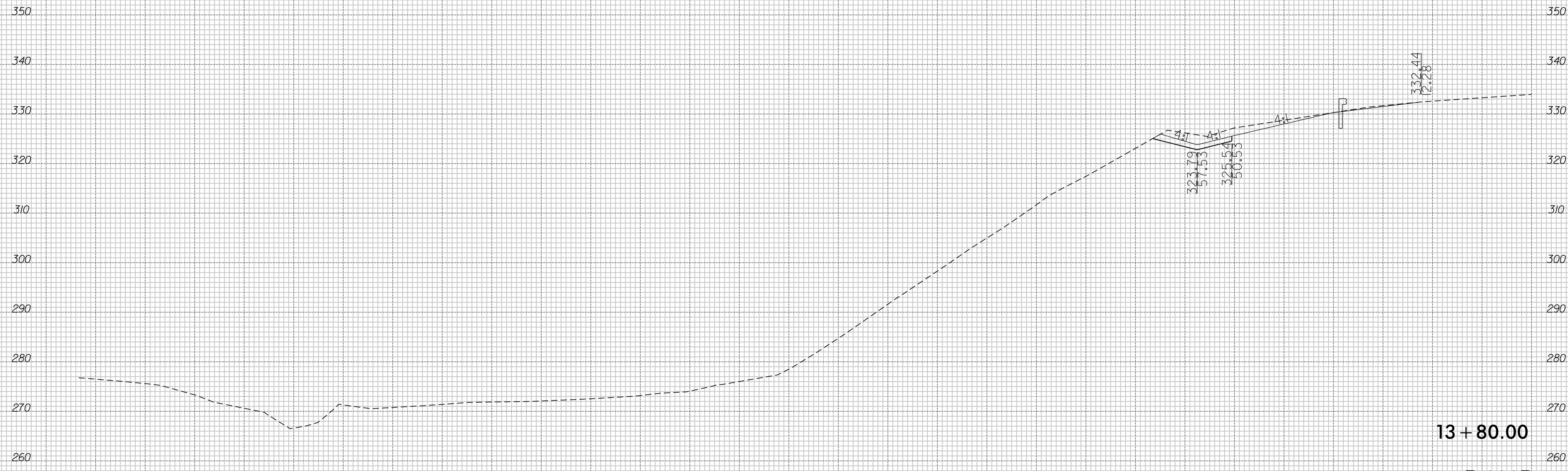


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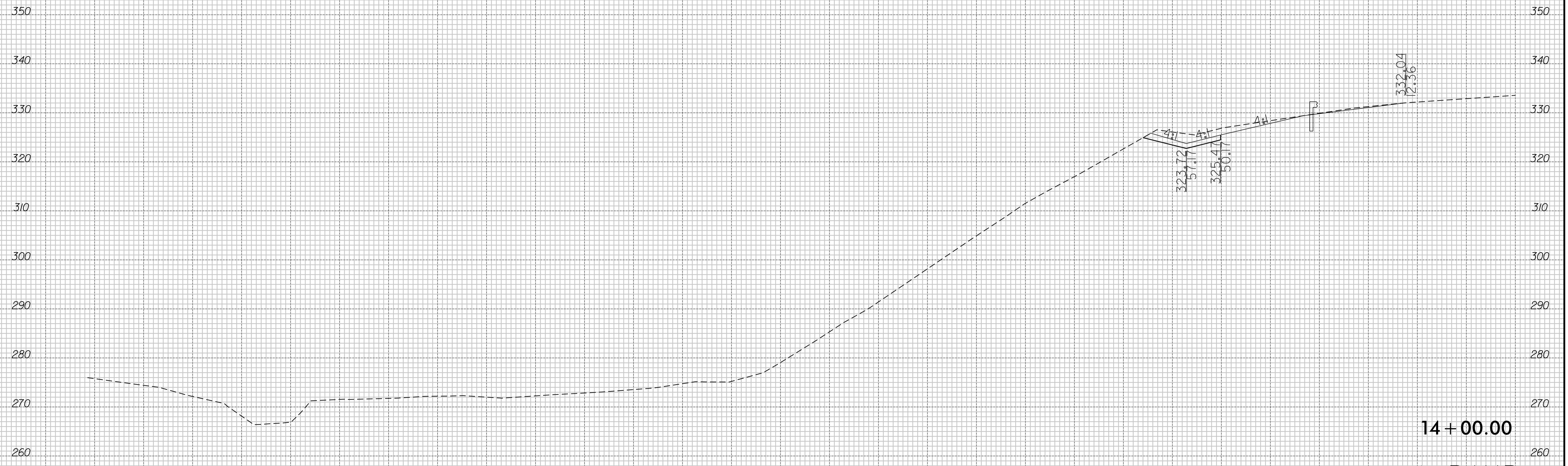
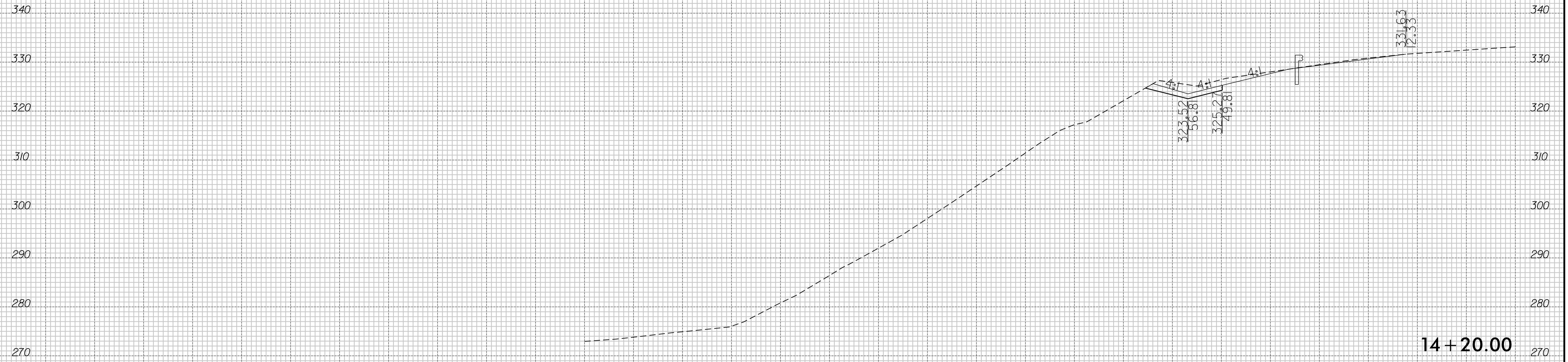


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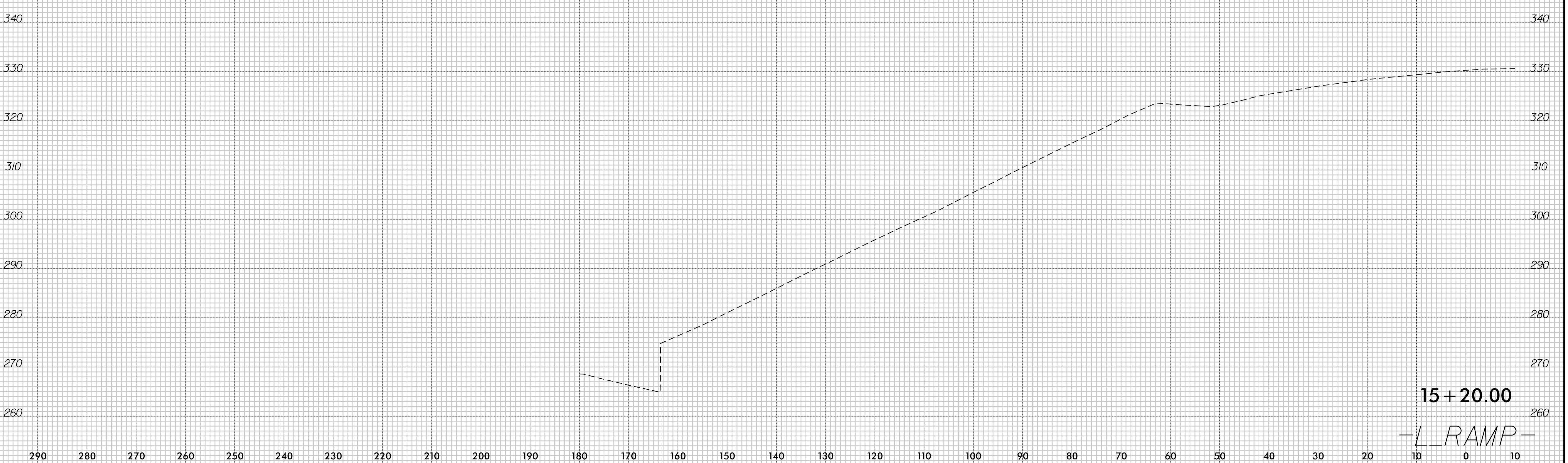
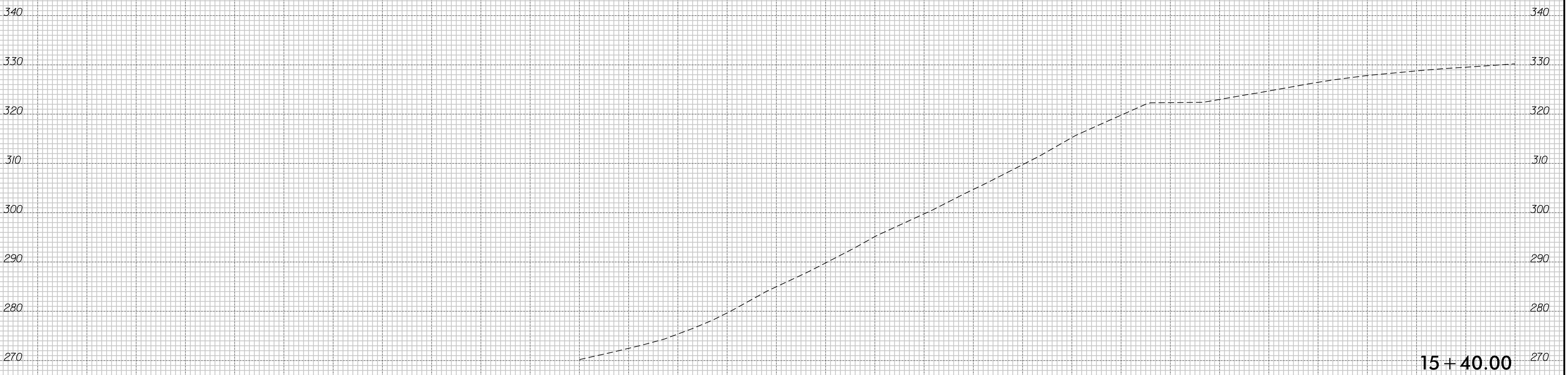


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