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CONTRACT: DN01088

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

HELENE
EMERGENCY REPAIRS

COUNTY HENDERSON
PROJECT DESCRIPTION 7 SITES ON POT SHOALS RD



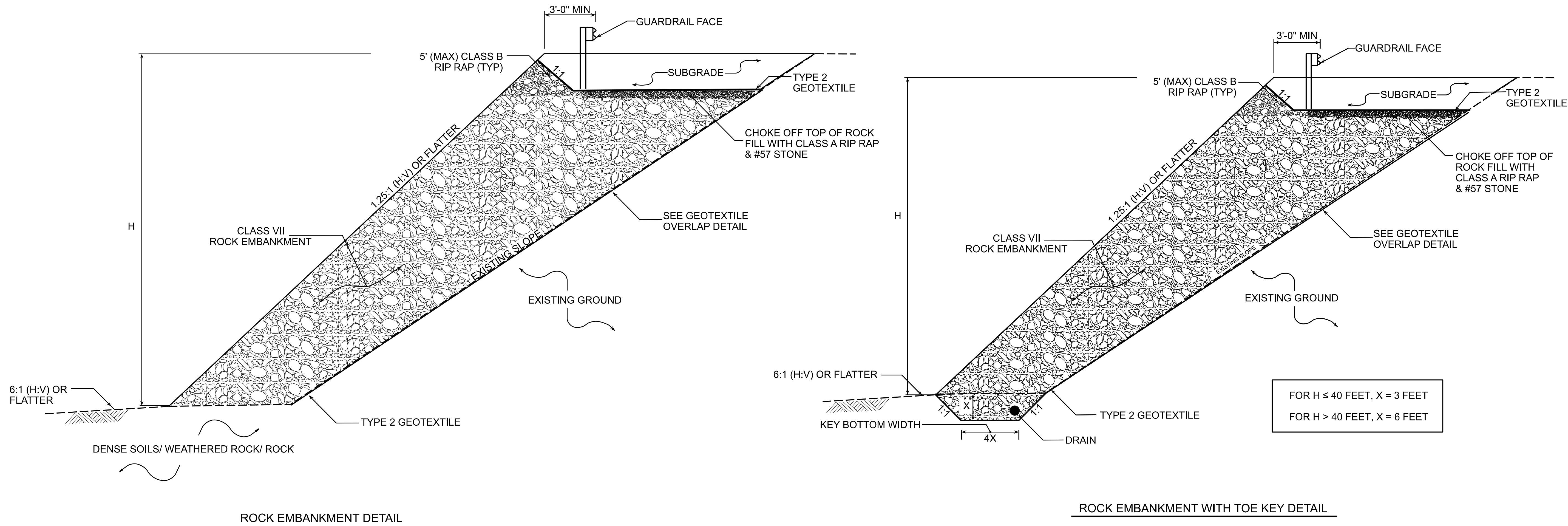
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Dean Hardister 12/02/2024
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ROUTE	SITE #	SITE LATITUDE	SITE LONGITUDE	REPAIR OPTION 1	REPAIR OPTION 2	REPAIR OPTION 3
SR-1835 Pot Shoals Rd	2002	35.24089608	-82.39675472	1.25:1 Rock Embankment with Toe Key		
	2003	35.24288597	-82.39374255	Clean Existing Slope. Soil Nail Shoulder Buildout		
	2005	35.24624873	-82.39009523	FILL SLOPE - 1.25:1 Rock Embankment with Toe Key		
	2006	35.24450705	-82.39104913	1.25:1 Rock Embankment with Toe Key	1.25:1 Rock Embankment with Micropile Knee Wall	Soil Nail Shoulder Buildout
	2009	35.25081706	-82.38518346	UPPER - 1.25:1 Rock Embankment with Toe Key		
	2010	35.25192689	-82.38375701	1.25:1 Rock Embankment with Toe Key		
	2011	35.25572	-82.3781479	1.25:1 Rock Embankment with Toe Key		

WHEN MULTIPLE REPAIR OPTIONS ARE AVAILABLE AT A SITE LOCATION, THE CONTRACTOR SHALL PROCEED IN SEQUENTIAL ORDER AND CHOOSE THE FIRST OPTION THAT FITS WITHIN SITE CONSTRAINTS

PRIOR TO CONSTRUCTING THE GEOTECHNICAL REPAIRS, AN ON-SITE MEETING WITH THE PRIME CONTRACTOR, THE GEOTECHNICAL SPECIALTY SUBCONTRACTOR (IF APPLICABLE), THE DIVISION CONSTRUCTION REPRESENTATIVE AND THE GEOTECHNICAL OPERATIONS GROUP REPRESENTATIVE SHALL BE CONDUCTED

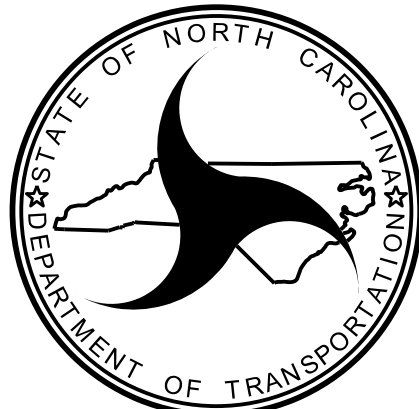


- NOTES:
1. THE MAXIMUM ALLOWABLE HEIGHT FOR THE ROCK EMBANKMENT DETAIL IS 80'.
 2. FOR ROCK EMBANKMENT, BENCH EXISTING SLOPE IN ACCORDANCE WITH SECTION 235 OF THE STANDARD SPECIFICATIONS, WHERE POSSIBLE.

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REVIEWED BY:	DATE:

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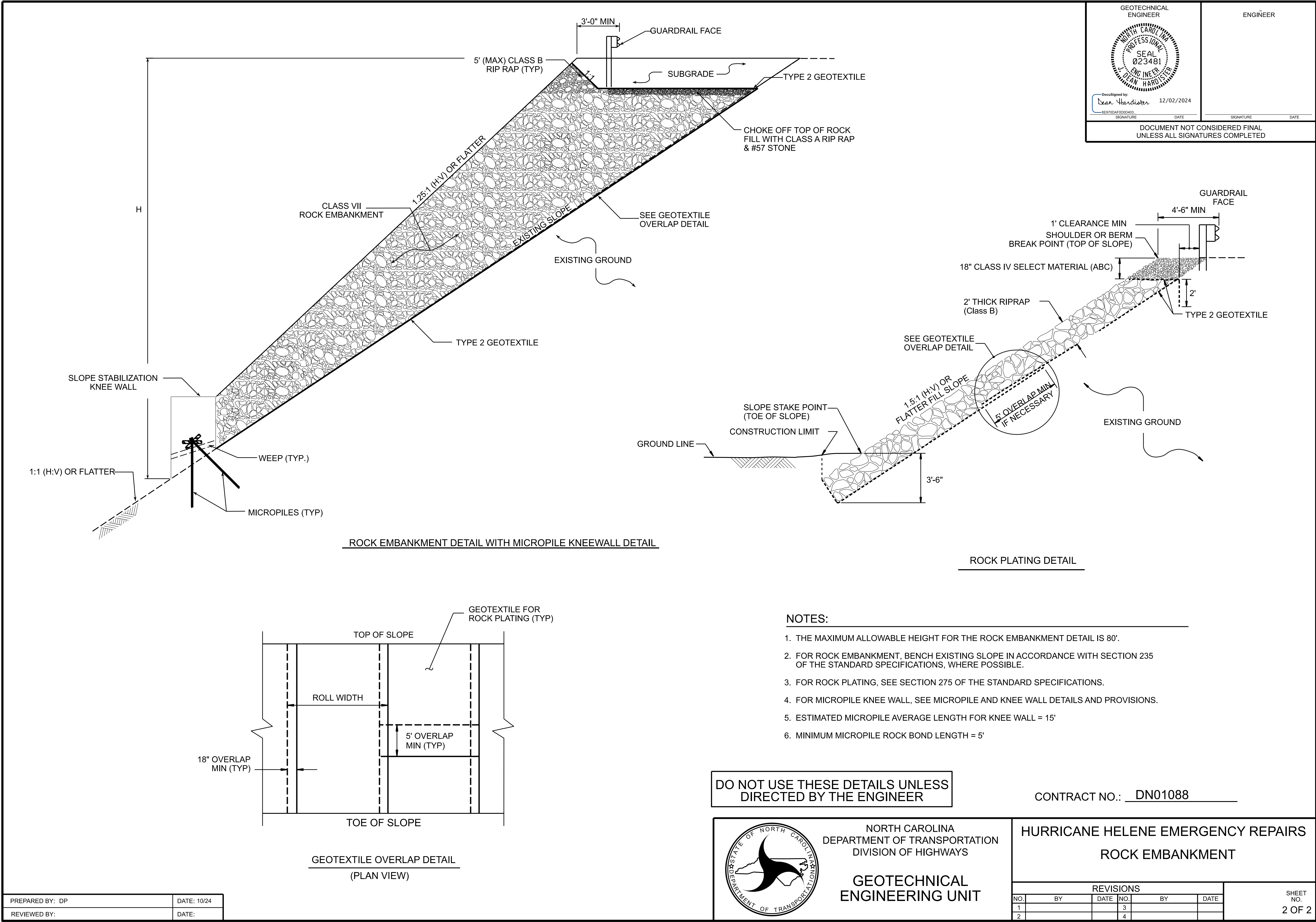
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DIVISION OF HIGHWAYS

GEOTECHNICAL
ENGINEERING UNIT

HURRICANE HELENE EMERGENCY REPAIRS

ROCK EMBANKMENT

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



GEOTECHNICAL ENGINEER



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12/02/2024

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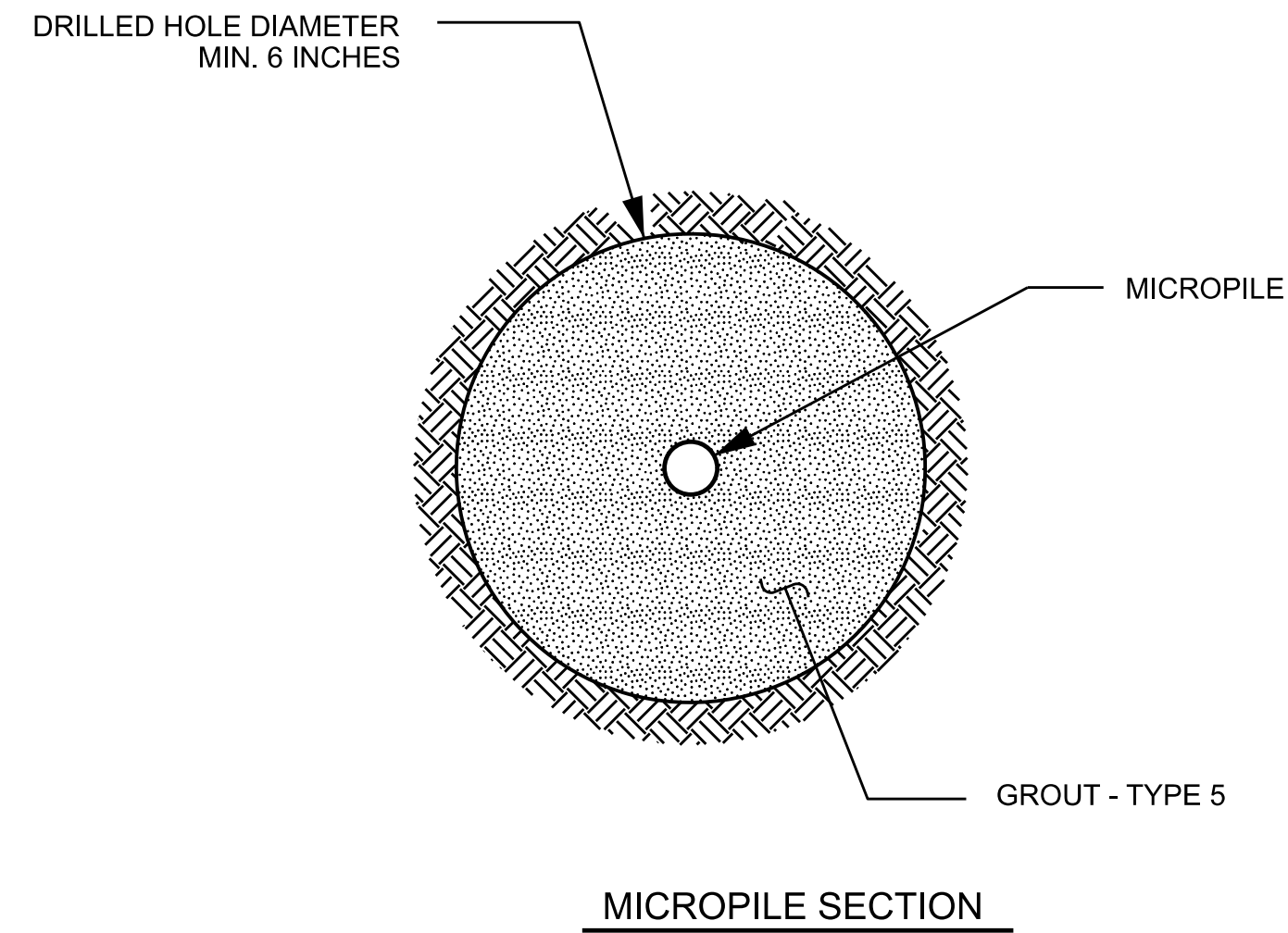
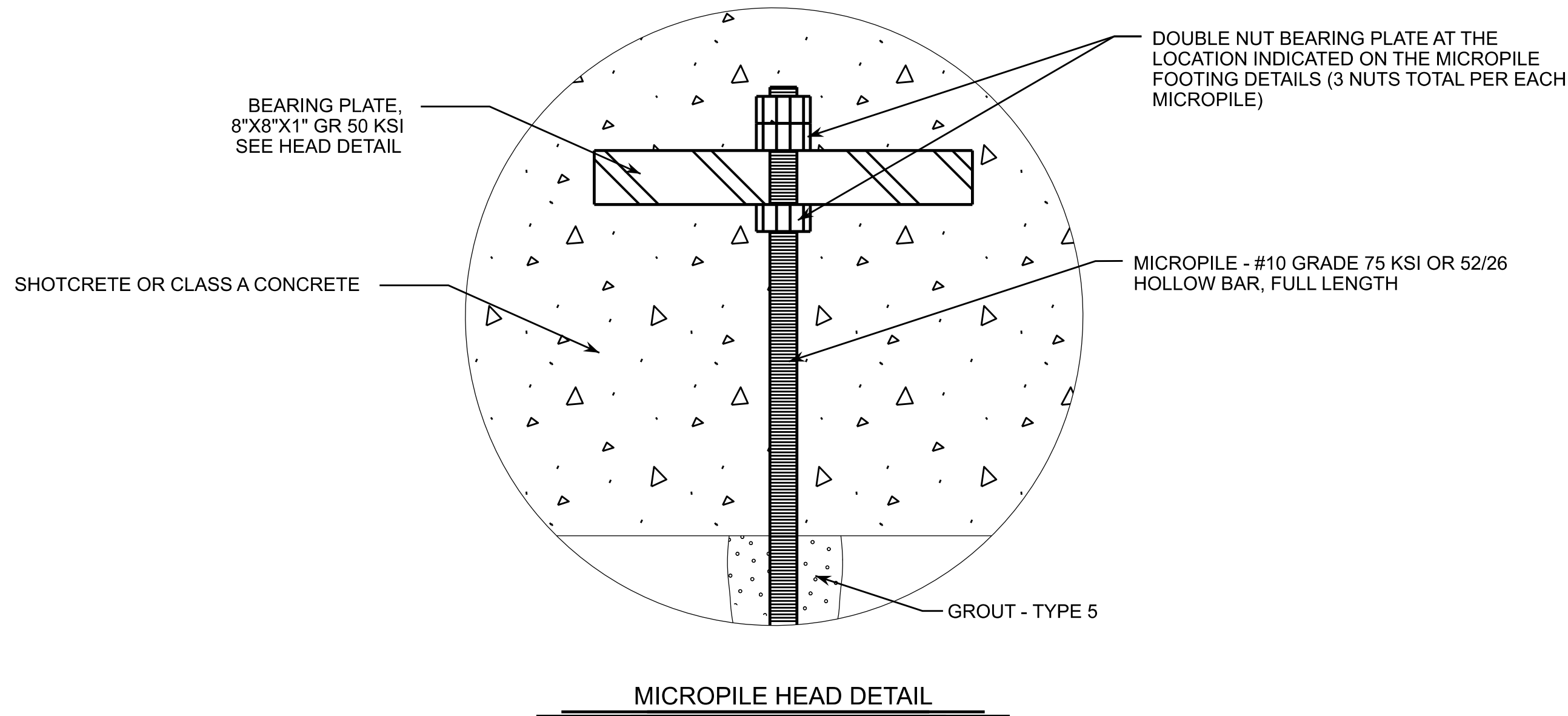
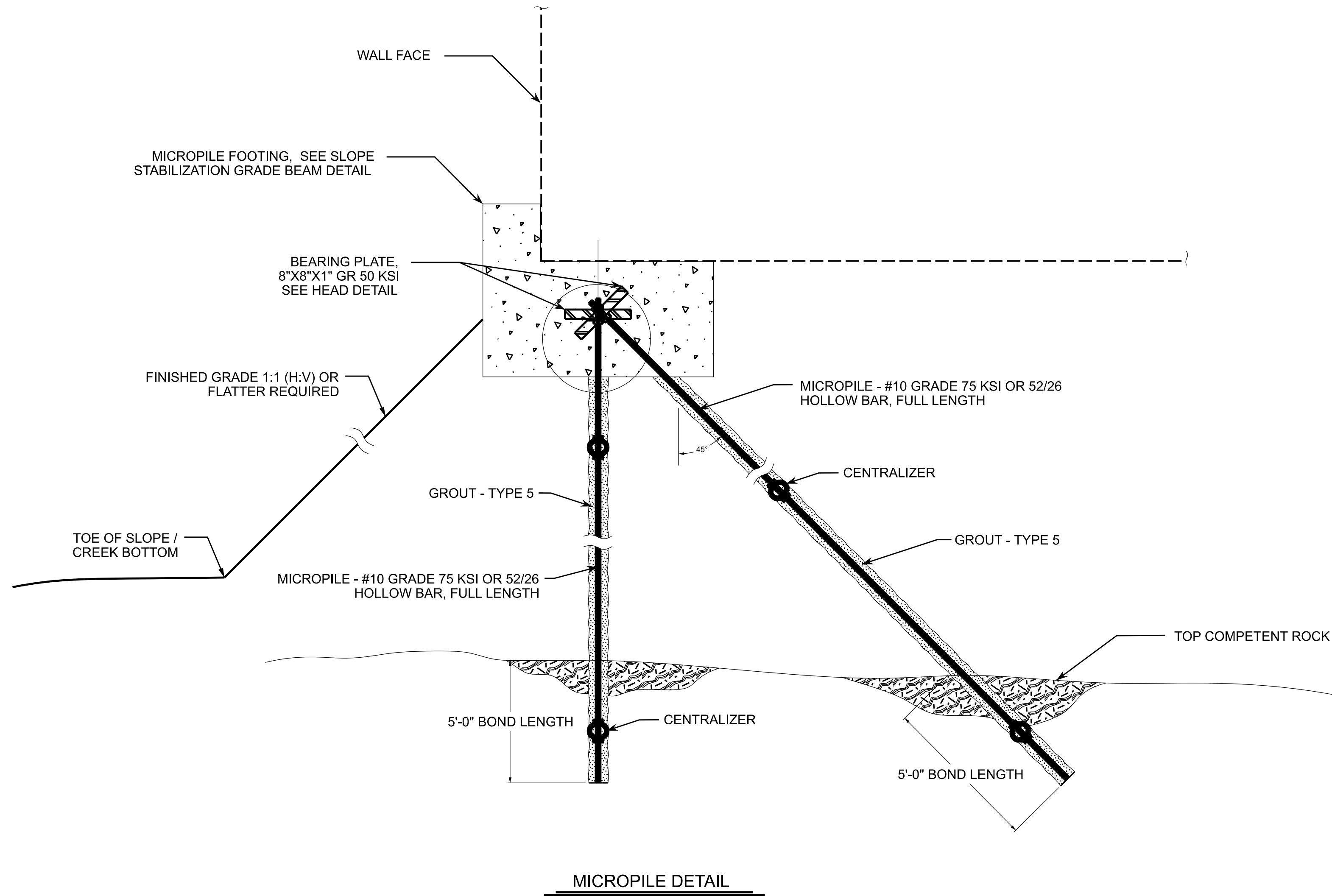
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NOTES:

GENERAL NOTES:

THE MICROPILES HAVE BEEN DESIGNED IN GENERAL ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE MICROPILE FOUNDATIONS HAVE BEEN DESIGNED TO SUPPORT A LOAD OF 60 KIPS IN COMPRESSION AND TENSION.

LAYOUT OF THE PILES SHALL BE BY THE GENERAL CONTRACTOR. MICROPILE LAYOUT IS BASED ON PILE LOCATION AT THE BOTTOM OF THE MICROPILE CAP. GENERAL CONTRACTOR SHALL LAY OUT PILES BASED ON DRILLING ELEVATION SUCH THAT THE MICROPILE LOCATION WILL BE AT THE PLANNED LOCATION AT THE BOTTOM OF THE PILE CAP.

MATERIAL SPECIFICATIONS:

FOR MICROPILE USE TYPE 5 GROUT, SEE SECTION 1003 OF THE STANDARD SPECIFICATIONS.

PROVIDE STEEL PLATES THAT MEET ASTM A572 GRADE 50 KSI.

ALL THREAD MICROPILE REINFORCEMENT SHALL BE MINIMUM GRADE 75 KSI.

MICROPILE NUTS WILL BE MANUFACTURED BY THE BAR MANUFACTURER AND COMPATIBLE WITH THE BAR TYPE SPECIFIED.

CENTRALIZERS- PLASTIC, STAINLESS STEEL, OR OTHER NON-DELETERIOUS MATERIAL WHICH WILL MAINTAIN SHAPE AND LOCATION TO KEEP REINFORCEMENT BAR IN CENTRAL PORTION OF THE DRILL HOLE.

TYPICAL MICROPILE CONSTRUCTION SEQUENCE:

WHERE POSSIBLE LEVEL AREA OF MICROPILE FOOTING PRIOR TO DRILLING.

IF REQUIRED, INSTALL AND TEST PILES IN ACCORDANCE AASHTO GUIDLINES AS DIRECTED BY THE ENGINEER.

ROTARY FLUSH TEMPORARY CASING TO TOP OF ROCK USING AIR OR WATER AS FLUSHING MEDIUM. CARE SHALL BE TAKEN SO MINIMAL LOSS OF MATERIALS OUTSIDE THE THE TEMPORARY CASING OCCURS.

USE ROTARY PERCUSSIVE DRILLING TO DRILL ROCK SOCKET TO REQUIRED DEPTH. MINIMUM BOND LENGTH IS 5 FEET INTO COMPETENT ROCK, WITH A MINIMUM OVERALL LENGTH OF AT LEAST 10 FT.

PLACE GROUT FOR MICROPILES BY TREMIE METHOD FROM BOTTOM OF THE HOLE.

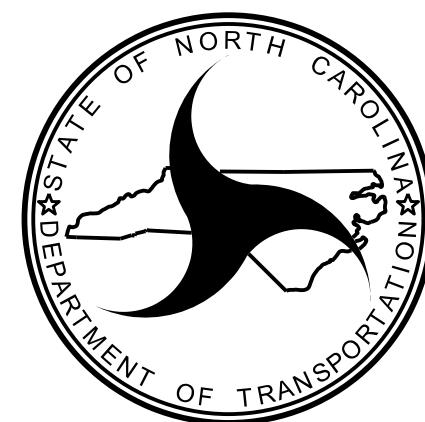
FOR SOLID BAR MICROPILES, INSTALL CENTER CORE REINFORCEMENT STEEL (STEEL MAY BE PLACED PRIOR TO OR IMMEDIATELY AFTER GROUTING).

CUT TOPS OF PILES TO FINAL ELEVATION AND INSTALL PLATES. FOR MICROPILES AND MICROPILE FOOTING, SEE MICROPILE SLOPE STABILIZATION PROVISION.

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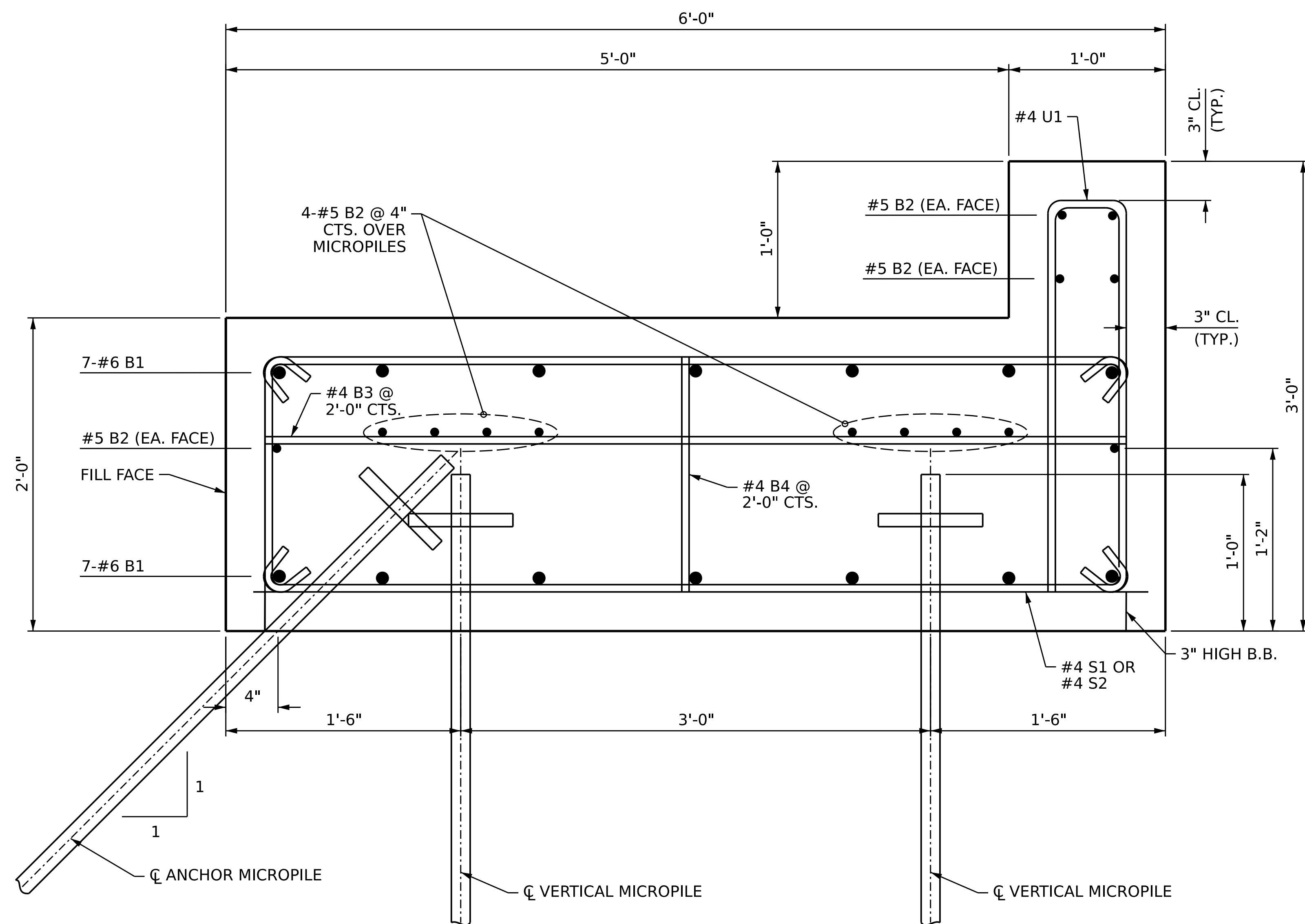
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ENGINEERING UNIT

HURRICANE HELENE EMERGENCY REPAIRS

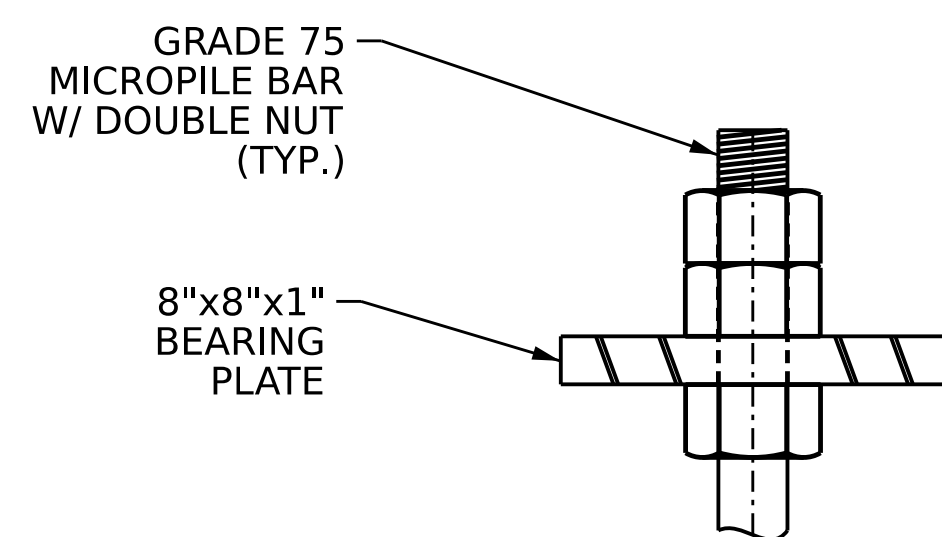
MICROPILES

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1			3		
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NO.
2 OF 2

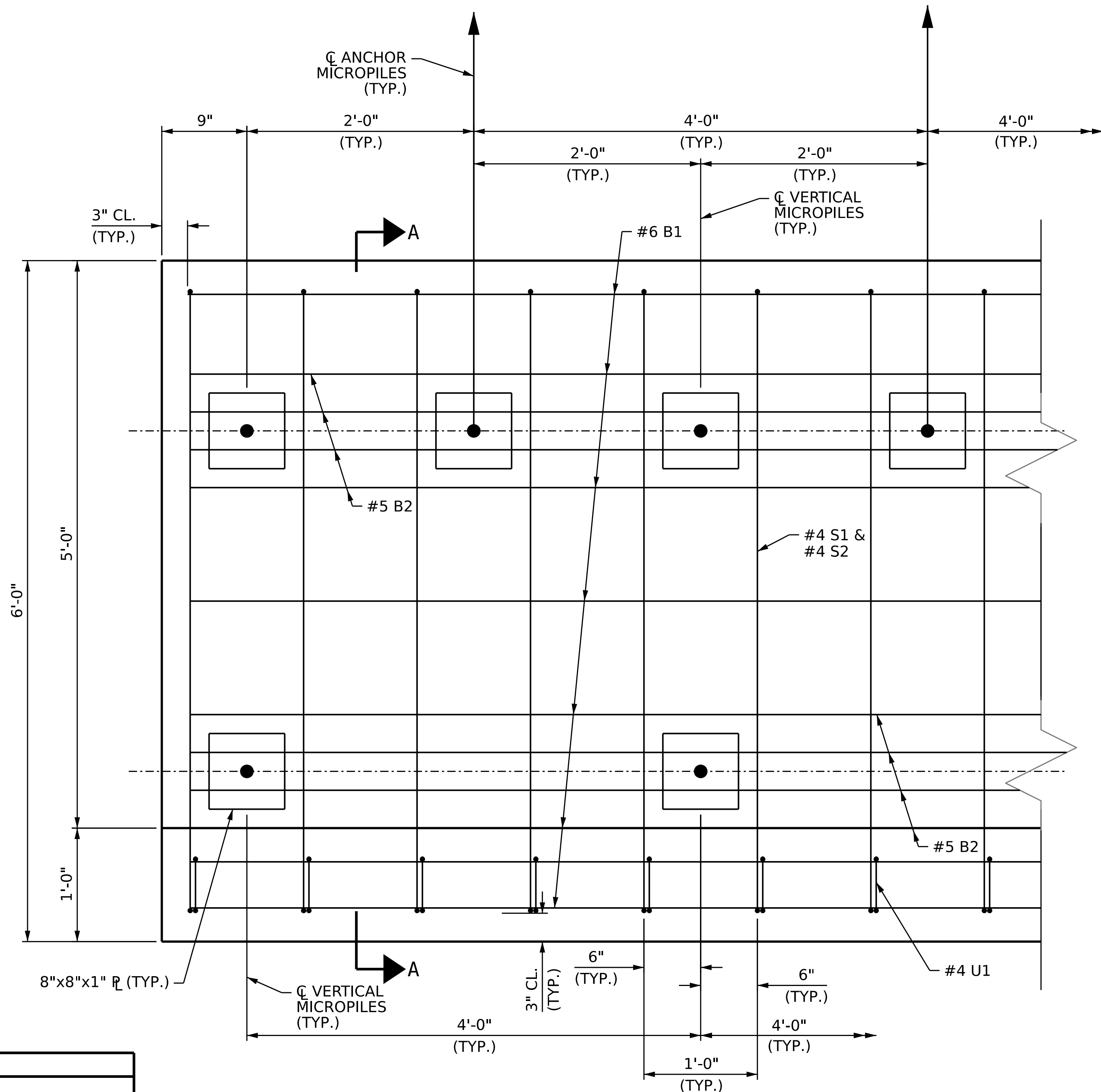


SECTION A-A



MICROPILE DETAIL

BAR TYPES			
ALL BAR DIMENSIONS ARE OUT TO OUT			
BILL OF MATERIAL			
BAR	SIZE	TYPE	LENGTH
B1	#7	STR.	-
B2	#5	STR.	-
B3	#4	STR.	5'-6"
B4	#4	STR.	2'-6"
-	-	-	-
S1	#4	1	9'-5"
S2	#4	2	6'-5"
-	-	-	-
U1	#4	3	5'-6"
REINFORCING STEEL =			64 LBS./LIN.FT.
CLASS A CONCRETE =			0.5 CU.YD./LIN.FT.



PLAN

NOTES

DESIGN ASSUMPTIONS:

- ANCHOR/VERTICAL MICROPILE LOAD OF 55 KIPS.
- VERTICAL LOAD OF 4.6 KIPS/SQFT.
- LATERAL LOAD OF 4.9 KIPS/SQFT.

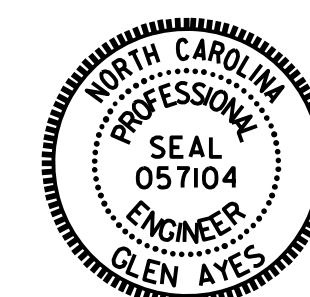
INVERT ALTERNATE STIRRUPS AS SHOWN.

STIRRUPS MAY BE SHIFTED SLIGHTLY AS NECESSARY TO CLEAR MICROPILES.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE MCP DETAILS.

BEARING PLATES SHALL BE GRADE 50STEEL.

CONTRACT NO. : DN01088



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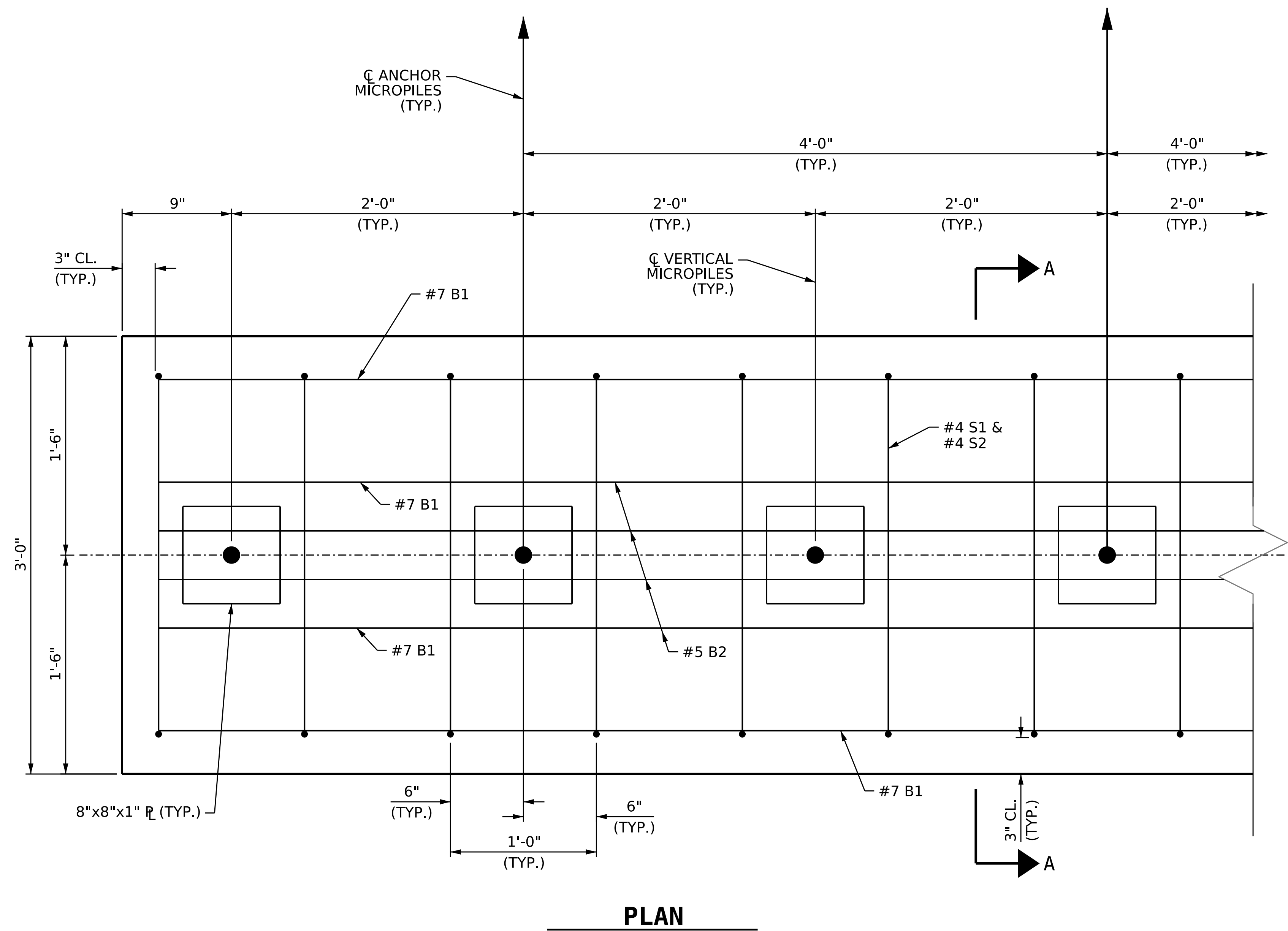
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DEPARTMENT OF TRANSPORTATION
RALEIGH

SLOPE STABILIZATION
2'-0" X 6'-0"
GRADE BEAM

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DRAWN BY : _____ DATE : _____
CHECKED BY : _____ DATE : _____
DESIGN ENGINEER OF RECORD: _____ DATE : _____



NOTES

DESIGN ASSUMPTIONS:

- ANCHOR/VERTICAL MICROPILE LOAD OF 55 KIPS.
- VERTICAL LOAD OF 4.6 KIPS/SQFT.
- LATERAL LOAD OF 4.9 KIPS/SQFT.

INVERT ALTERNATE STIRRUPS AS SHOWN.

STIRRUPS MAY BE SHIFTED SLIGHTLY AS NECESSARY TO CLEAR MICROPILES.

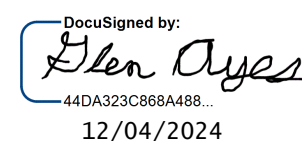
FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE MCP DETAILS.

BEARING PLATES SHALL BE GRADE 50 STEEL.

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STATE OF NORTH CAROLINA
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SLOPE STABILIZATION KNEE WALL



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ENGINEER



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ENGINEER

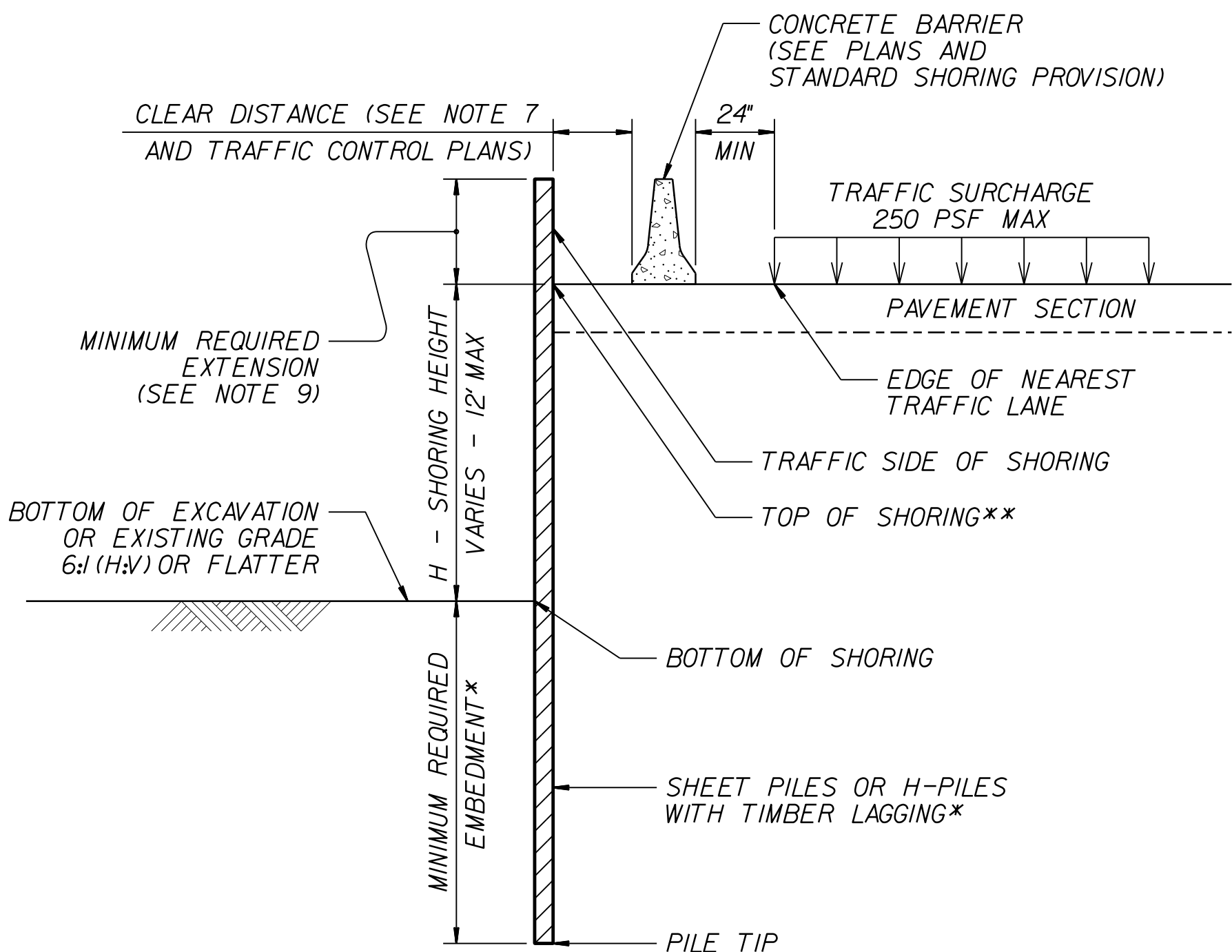
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NOTES:

1. AT THE CONTRACTOR'S OPTION,USE STANDARD TEMPORARY SHORING AS NOTED IN THE PLANS.
2. FOR STANDARD TEMPORARY SHORING,SEE STANDARD SHORING PROVISION.
3. STANDARD TEMPORARY SHORING IS BASED ON THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS:
UNIT WEIGHT, γ = 120 PCF
FRICTION ANGLE, ϕ = 30 DEGREES
COHESION, c = 0 PSF
4. DO NOT USE STANDARD TEMPORARY SHORING IF ASSUMED SOIL PARAMETERS ARE NOT APPLICABLE.
5. DO NOT USE STANDARD TEMPORARY SHORING WHEN VERY LOOSE OR SOFT SOIL OR MUCK IS WITHIN THE EMBEDMENT DEPTH.
6. USE GROUNDWATER ELEVATION NOTED IN THE PLANS,IF NO GROUNDWATER ELEVATION IS SHOWN IN THE PLANS,USE "GROUNDWATER ELEVATION BETWEEN BOTTOM OF SHORING AND PILE TIP" FOR GROUNDWATER CONDITION.DO NOT USE STANDARD TEMPORARY SHORING IF GROUNDWATER IS ABOVE BOTTOM OF SHORING.
7. AT THE CONTRACTOR'S OPTION OR IF AVAILABLE CLEAR DISTANCE IS LESS THAN THE MINIMUM REQUIRED FOR CONCRETE BARRIER,SET BARRIER NEXT TO AND UP AGAINST TRAFFIC SIDE OF PILES AND USE "SURCHARGE CASE WITH TRAFFIC IMPACT".
8. AT THE CONTRACTOR'S OPTION OR IF AVAILABLE CLEAR DISTANCE IS LESS THAN 4' FOR TEMPORARY GUARDRAIL,ATTACH GUARDRAIL TO TRAFFIC SIDE OF PILES AS SHOWN IN THE PLANS AND USE "SURCHARGE CASE WITH TRAFFIC IMPACT".
9. MINIMUM REQUIRED EXTENSION IS 6" FOR "SLOPE OR SURCHARGE CASE WITH NO TRAFFIC IMPACT" AND 32" FOR "SURCHARGE CASE WITH TRAFFIC IMPACT".
10. MINIMUM REQUIRED EMBEDMENT FOR H-PILES WITH TIMBER LAGGING IS BASED ON DRIVEN H-PILES AT MAXIMUM 6' SPACING,AT THE CONTRACTOR'S OPTION,EMBEDMENT DEPTHS MAY BE REDUCED BY 25% FOR DRILLED-IN H-PILES.
11. SUBMIT A "STANDARD TEMPORARY SHORING SELECTION FORM" AT LEAST 7 DAYS BEFORE STARTING TEMPORARY SHORING CONSTRUCTION.UP TO 3 SHORING LOCATIONS MAY BE INCLUDED ON EACH FORM. STANDARD SHORING SELECTION FORMS ARE AVAILABLE FROM:
connect.ncdot.gov/resources/Geological/Pages/Geotech_Forms_Details.aspx
12. CONTACT THE ENGINEER IF PILES DO NOT ATTAIN THE MINIMUM REQUIRED EMBEDMENT.

MINIMUM REQUIRED EMBEDMENT AND SECTION MODULUS

*DO NOT USE H-PILES WITH TIMBER LAGGING FOR
GROUNDWATER CONDITION, SHORING HEIGHT AND H-PILE
SIZE SHOWN IF MINIMUM REQUIRED EMBEDMENT IS "—".

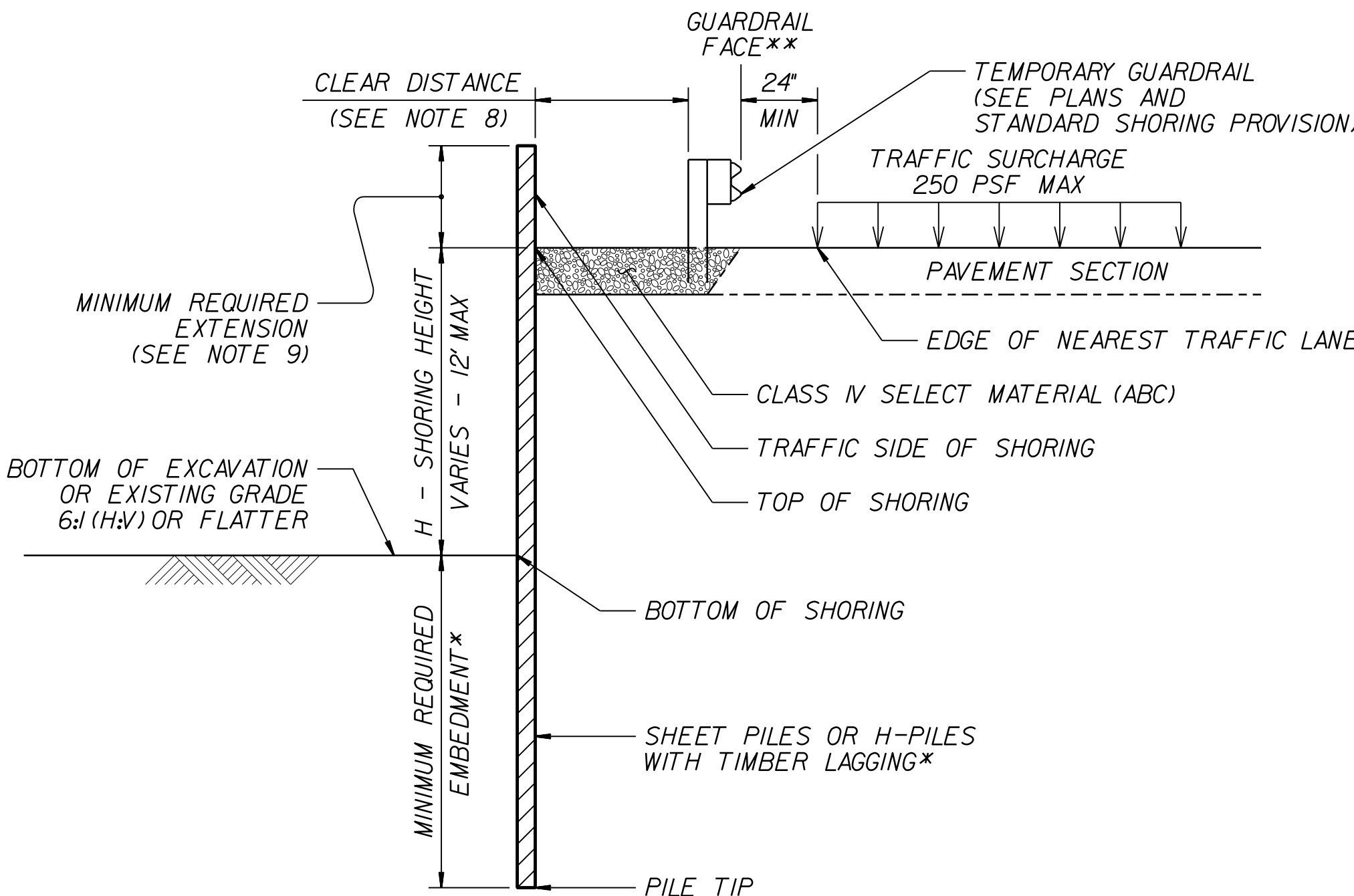


CONCRETE BARRIER

**TOP OF SHORING =
EDGE OF PAVEMENT

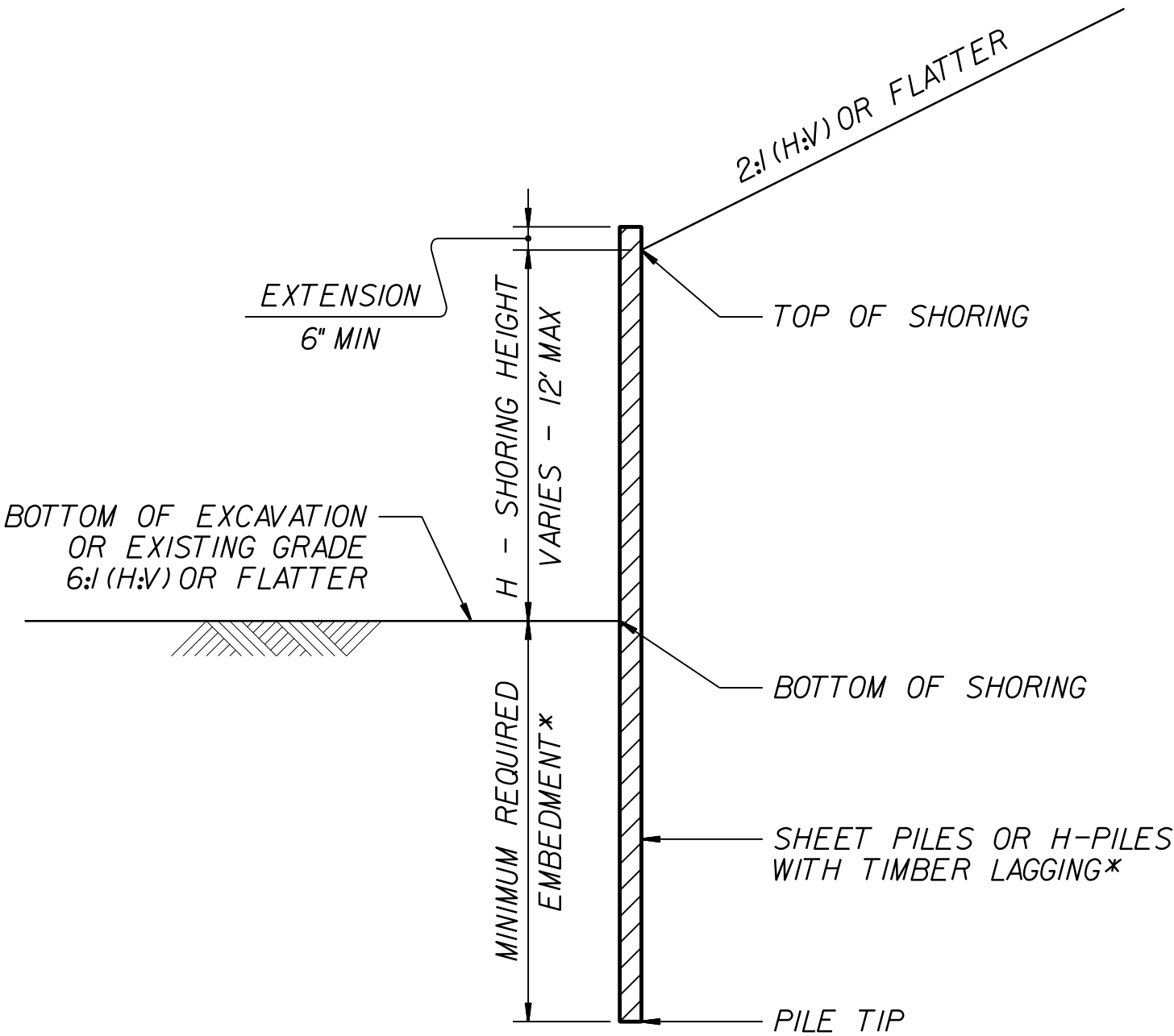
STANDARD TEMPORARY SHORING

(SURCHARGE CASE)
*SEE TABLE ABOVE.



TEMPORARY GUARDRAIL

**GUARDRAIL FACE =
EDGE OF PAVEMENT



STANDARD TEMPORARY SHORING

(SLOPE CASE)

*SEE TABLE ABOVE.



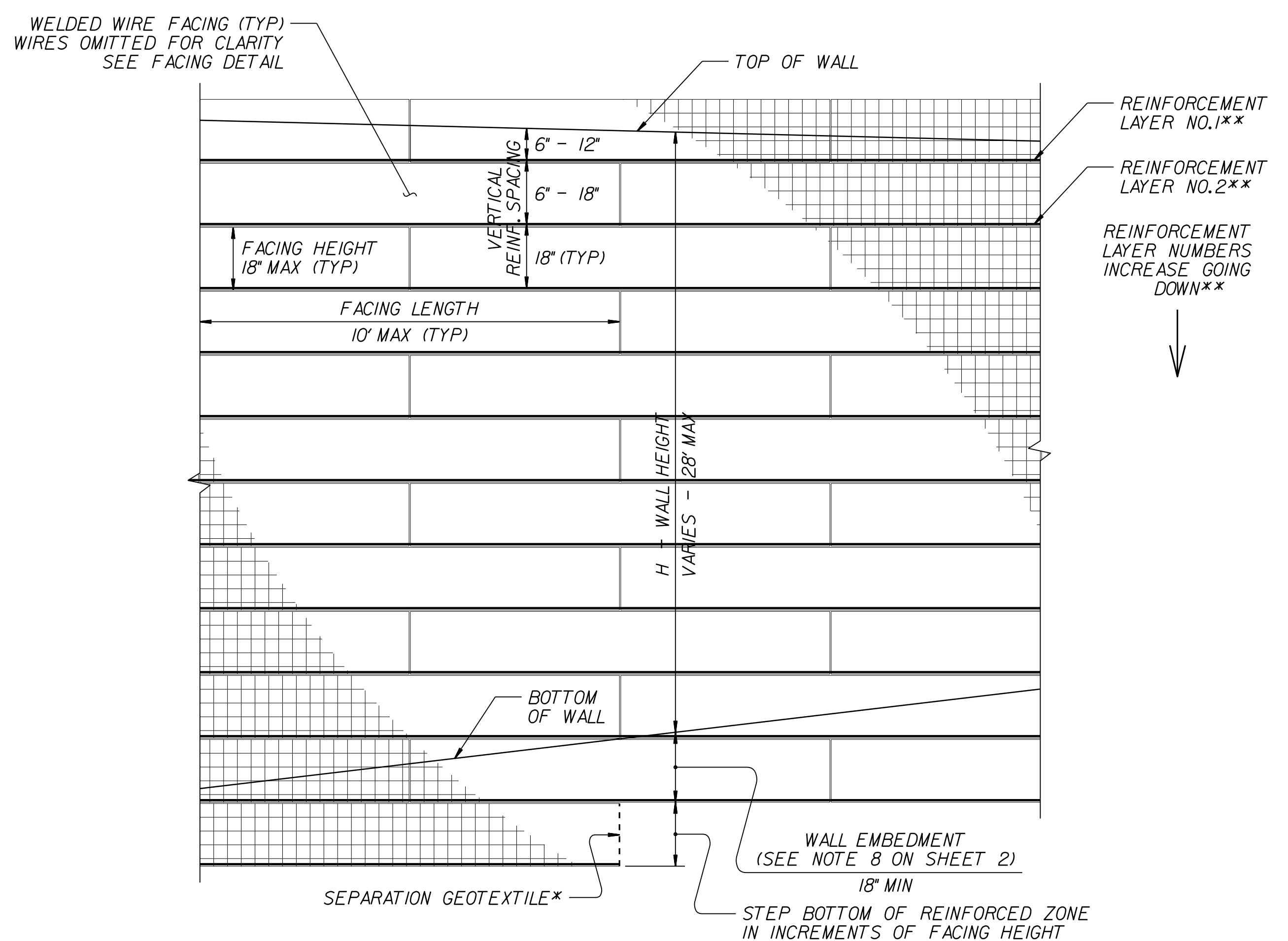
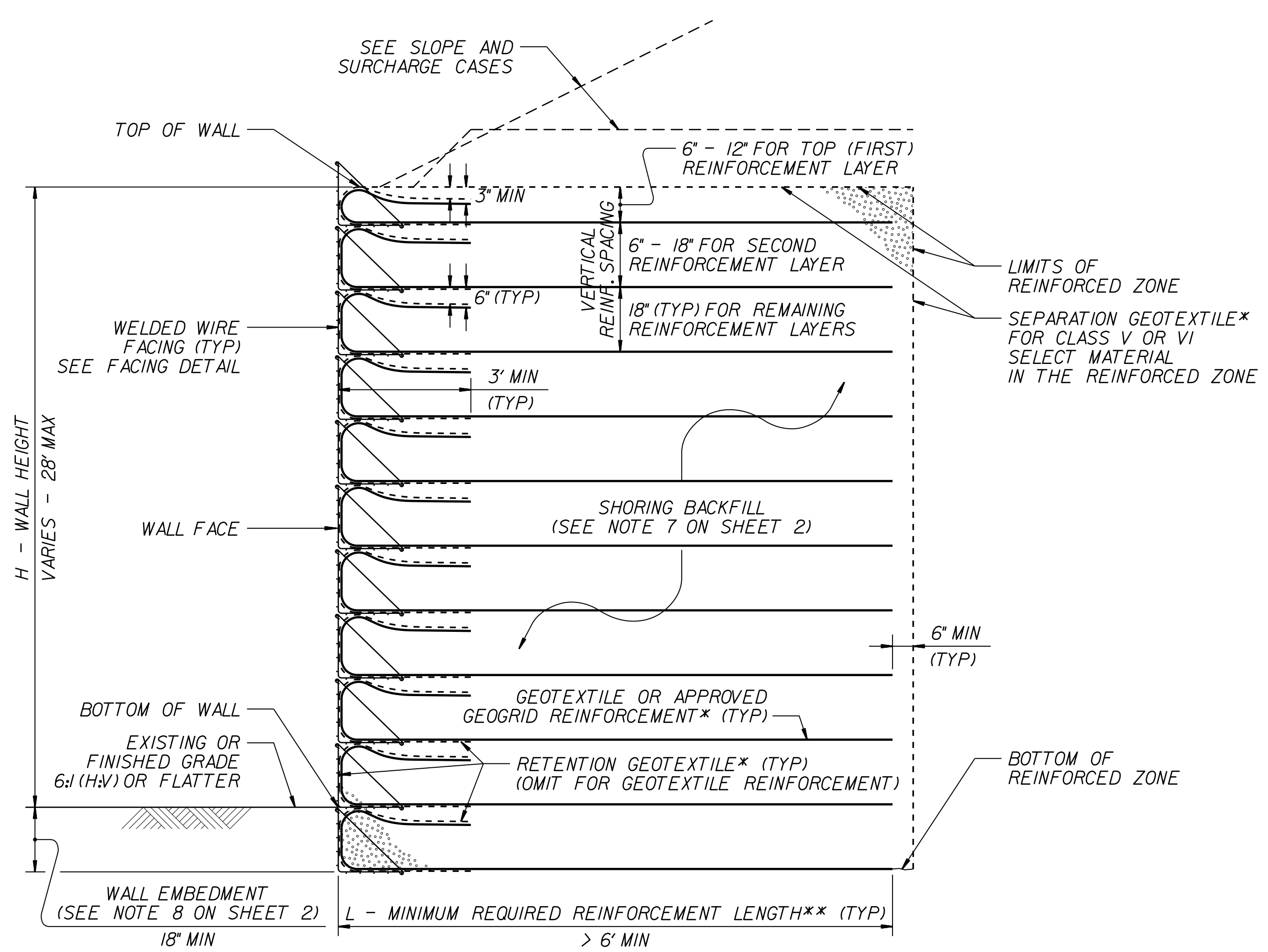
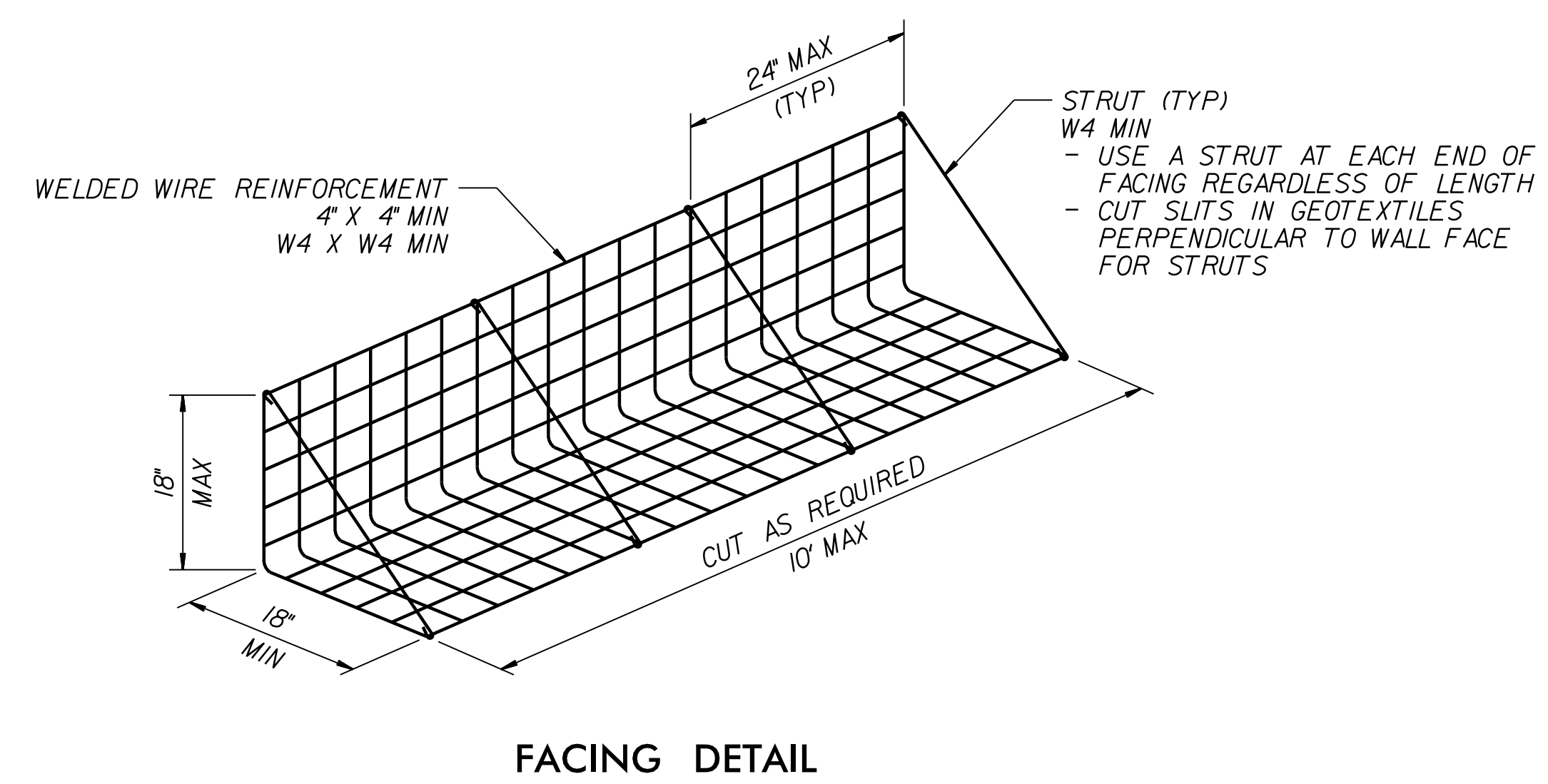
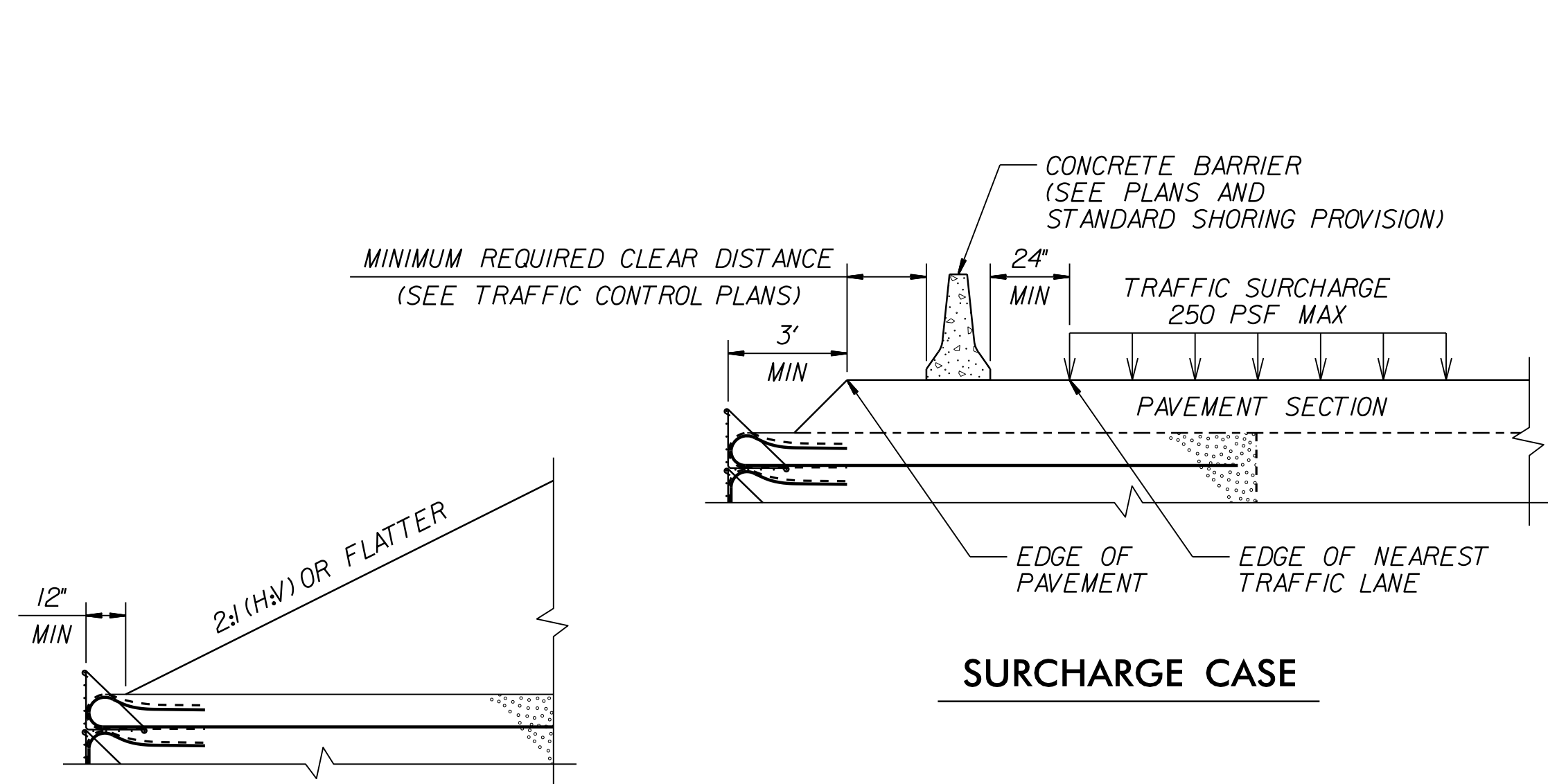
NORTH CAROLINA
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DIVISION OF HIGHWAYS

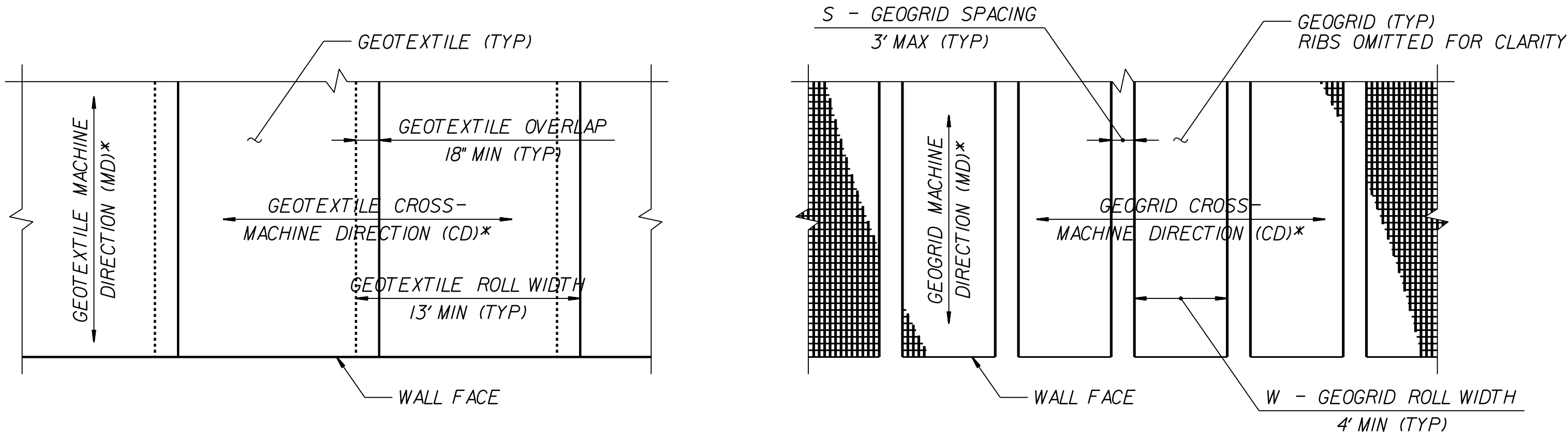
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STANDARD DETAIL NO. 1801.01

STANDARD
TEMPORARY SHORING

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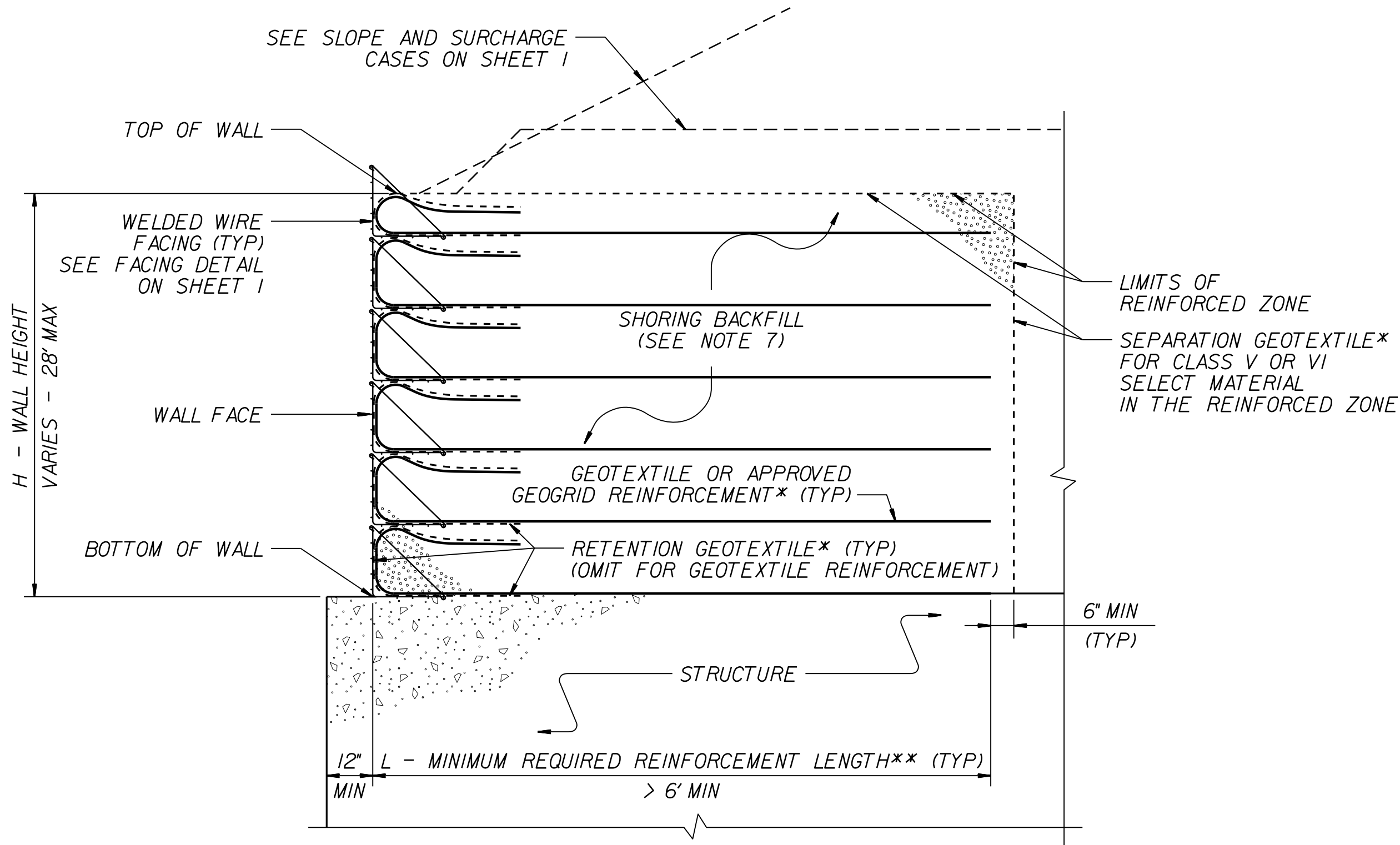




GEOTEXTILE PLACEMENT
(100% COVERAGE MIN FOR
GEOTEXTILE REINFORCEMENT)

GEOGRID PLACEMENT
(80% COVERAGE MIN FOR
GEOGRID REINFORCEMENT –
 $\frac{W}{W+S} \times 100 \geq 80\%$,
SEE NOTE 11)

GEOSYNTHETIC PLACEMENT DETAILS
(PLAN VIEW)
*SEE NOTE 12.



TEMPORARY WALL ON STRUCTURE DETAIL
*SEE GEOSYNTHETIC PLACEMENT DETAILS.
**SEE REINFORCEMENT TABLES ON SHEET 3.

- NOTES:
1. AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALLS AS NOTED IN THE PLANS.
 2. FOR STANDARD TEMPORARY WALLS, SEE STANDARD SHORING PROVISION.
 3. STANDARD TEMPORARY WALLS ARE BASED ON THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS:
UNIT WEIGHT, γ = 120 PCF
FRICTION ANGLE, ϕ = 30 DEGREES
COHESION, c = 0 PSF
 4. DO NOT USE STANDARD TEMPORARY WALLS IF ASSUMED SOIL PARAMETERS ARE NOT APPLICABLE.
 5. DO NOT USE STANDARD TEMPORARY WALLS WHEN VERY LOOSE OR SOFT SOIL OR MUCK IS BELOW TEMPORARY WALLS.
 6. USE GROUNDWATER ELEVATION NOTED IN THE PLANS. IF NO GROUNDWATER ELEVATION IS SHOWN IN THE PLANS, ASSUME GROUNDWATER DEPTH IS LESS THAN 7' BELOW BOTTOM OF REINFORCED ZONE. DO NOT USE STANDARD TEMPORARY WALLS IF GROUNDWATER OR FLOOD ELEVATION IS ABOVE BOTTOM OF REINFORCED ZONE.
 7. DO NOT USE A-2-4 SOIL FOR STANDARD TEMPORARY WALLS AROUND CULVERTS OR IN THE REINFORCED ZONE OF STANDARD TEMPORARY WALLS FOR SLOPE CASES. DO NOT USE CLASS VI SELECT MATERIAL IN THE REINFORCED ZONE OF STANDARD TEMPORARY WALLS WITH GEOTEXTILE REINFORCEMENT.
 8. WALL EMBEDMENT IS NOT REQUIRED FOR STANDARD TEMPORARY WALLS ON STRUCTURES OR ROCK AS DETERMINED BY THE ENGINEER.
 9. DO NOT USE MORE THAN 4 DIFFERENT REINFORCEMENT STRENGTHS FOR EACH STANDARD TEMPORARY WALL.
 10. GEOGRIDS FOR GEOGRID REINFORCEMENT ARE APPROVED FOR SHORT TERM DESIGN STRENGTHS (3-YEAR DESIGN LIFE) IN THE MD AND CD BASED ON MATERIAL TYPE. THE LIST OF APPROVED GEOGRIDS WITH DESIGN STRENGTHS IS AVAILABLE FROM: connect.ncdot.gov/resources/Geological/Pages/Products.aspx. DEFINE MATERIAL TYPE FROM THE WEBSITE ABOVE FOR SHORING BACKFILL AS FOLLOWS:

MATERIAL TYPE	SHORING BACKFILL
BORROW	A-2-4 SOIL
FINE AGGREGATE	CLASS II, TYPE I OR CLASS III SELECT MATERIAL
COARSE AGGREGATE	CLASS V OR VI SELECT MATERIAL

11. FOR GEOGRID REINFORCEMENT WITH LESS THAN 100% COVERAGE, STAGGER REINFORCEMENT SO GEOGRIDS ARE CENTERED OVER GAPS IN THE REINFORCEMENT LAYER BELOW.
12. AT THE CONTRACTOR'S OPTION, REINFORCEMENT MAY BE INSTALLED WITH THE MD PARALLEL TO THE WALL FACE IF BOTH OF THE FOLLOWING CONDITIONS OCCUR:
- W (REINFORCEMENT ROLL WIDTH) $\geq$ (MINIMUM REQUIRED REINFORCEMENT LENGTH) + 4.5' AND
- REINFORCEMENT STRENGTH IN CD $\geq$ MINIMUM REQUIRED REINFORCEMENT STRENGTH IN MD.
13. SUBMIT A "STANDARD TEMPORARY WALL SELECTION FORM" AT LEAST 7 DAYS BEFORE STARTING TEMPORARY WALL CONSTRUCTION. STANDARD SHORING SELECTION FORMS ARE AVAILABLE FROM: connect.ncdot.gov/resources/Geological/Pages/Geotech_Forms_Details.aspx
14. DO NOT PLACE SHORING BACKFILL OR REINFORCEMENT UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.
15. FOR STANDARD TEMPORARY WALLS WITH PILE FOUNDATIONS IN THE REINFORCED ZONE, DRIVE PILES THROUGH REINFORCEMENT AFTER CONSTRUCTING TEMPORARY WALLS.
16. DO NOT SPLICE OR OVERLAP REINFORCEMENT SO SEAMS ARE PARALLEL TO THE WALL FACE.
17. CONTACT THE ENGINEER WHEN EXISTING OR FUTURE OBSTRUCTIONS SUCH AS FOUNDATIONS, PAVEMENTS, PIPES, INLETS OR UTILITIES WILL INTERFERE WITH REINFORCEMENT.
18. FOR STANDARD TEMPORARY WALLS WITH INTERIOR ANGLES LESS THAN 90 DEGREES, WRAP GEOSYNTHETICS AT ACUTE CORNERS AS DIRECTED BY THE ENGINEER.
19. FOR STANDARD TEMPORARY WALLS WITH TOP OF WALL WITHIN 5' OF FINISHED GRADE, REMOVE TOP FACING AND INCORPORATE TOP REINFORCEMENT LAYER INTO FILL WHEN PLACING FILL IN FRONT OF WALL.

PROJECT REFERENCE NO.

DN01088

SHEET NO.

2G-4

GEOTECHNICAL ENGINEER



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12/03/2024

ENGINEER

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WALL HEIGHT (H) + WALL EMBEDMENT (FT)	NUMBER OF REINFORCEMENT LAYERS*
2.5 - 4	3
4 - 5.5	4
5.5 - 7	5
7 - 8.5	6
8.5 - 10	7
10 - 11.5	8
11.5 - 13	9
13 - 14.5	10
14.5 - 16	11
16 - 17.5	12
17.5 - 19	13
19 - 20.5	14
20.5 - 22	15
22 - 23.5	16
23.5 - 25	17
25 - 26.5	18
26.5 - 28	19
28 - 29.5	20

*BASED ON VERTICAL REINFORCEMENT SPACING SHOWN ON SHEET 1.

SLOPE OR SURCHARGE CASE	GROUNDWATER DEPTH BELOW BOTTOM OF REINFORCED ZONE (SEE NOTE 6 ON SHEET 2) (FT)	SHORING BACKFILL TYPE IN THE REINFORCED ZONE (SEE NOTE 7 ON SHEET 2)	H - WALL HEIGHT (FT)																									
			< 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
SLOPE CASE	> 0	CLASS II,TYPE I, CLASS III,CLASS V OR CLASS VI SELECT MATERIAL	6	6	7	8	9	11	12	13	13	14	15	16	17	18	19	20	21	22	23	24	24	25	26	27	27	
SURCHARGE CASE	> 0 TO 7 FOR H < 20' > 0 TO 10 FOR H ≥ 20'	ALL SHORING BACKFILL TYPES	6	7	7	8	8	9	9	10	11	11	12	12	13	14	14	15	16	17	17	18	19	19	20	21	22	
	> 7 FOR H < 20' > 10 FOR H ≥ 20'	A-2-4 SOIL	6	6	7	8	8	9	9	10	11	11	12	12	13	14	14	15	16	16	17	18	18	19	20	20	21	
		CLASS II,TYPE I OR CLASS III SELECT MATERIAL	6	6	7	7	8	8	9	10	10	11	11	12	12	13	14	15	15	16	16	17	17	18	18	19	20	
		CLASS V OR CLASS VI SELECT MATERIAL	6	6	7	7	7	8	8	9	9	10	10	11	12	13	13	14	14	15	15	16	17	17	18	19	19	

L – MINIMUM REQUIRED REINFORCEMENT LENGTH (FT)
(FOR ALL REINFORCEMENT TYPES)

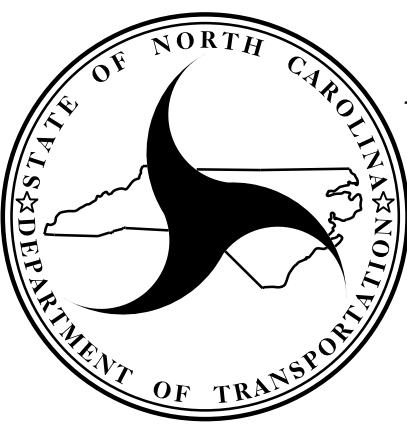
REINFORCEMENT LAYER NUMBER*	SHORING BACKFILL TYPE IN THE REINFORCED ZONE (SEE NOTE 7 ON SHEET 2)				
	SLOPE CASE		SURCHARGE CASE		
	CLASS II,TYPE I OR CLASS III SELECT MATERIAL	CLASS V SELECT MATERIAL	A-2-4 SOIL	CLASS II,TYPE I OR CLASS III SELECT MATERIAL	CLASS V SELECT MATERIAL
1	2400	2400	2400	2400	2400
2	2400	2400	2400	2400	2400
3	2400	2400	2400	2400	2400
4	2400	2400	2500	2400	2400
5	2500	2400	3000	2400	2400
6	3000	2400	3500	2800	2400
7	3500	2700	4000	3200	2600
8	4000	3100	4500	3600	2900
9	4500	3500	5000	4000	3200
10	5000	3900	5500	4400	3500
11	5500	4300	6000	4800	3800
12	6000	4700	6500	5200	4100
13	6500	5100	7000	5600	4400
14	7000	5400	7500	6000	4700
15	7500	5800	8000	6400	5000
16	8000	6200	8500	6800	5300
17	8500	6600	9000	7200	5600
18	9000	7000	9500	7600	5900
19	9500	7400	10000	8000	6200
20	10000	7800	10500	8400	6500

GEOTEXTILE REINFORCEMENT
ULTIMATE TENSILE STRENGTH (LB/FT)

REINFORCEMENT LAYER NUMBER*	SHORING BACKFILL TYPE IN THE REINFORCED ZONE (SEE NOTE 7 ON SHEET 2)				
	SLOPE CASE		SURCHARGE CASE		
	CLASS II,TYPE I OR CLASS III SELECT MATERIAL	CLASS V OR CLASS VI SELECT MATERIAL	A-2-4 SOIL	CLASS II,TYPE I OR CLASS III SELECT MATERIAL	CLASS V OR CLASS VI SELECT MATERIAL
1	240	200	340	290	240
2	380	310	520	430	350
3	530	420	700	570	460
4	690	550	870	720	570
5	860	690	1050	860	680
6	1030	830	1220	1000	790
7	1200	970	1400	1150	900
8	1370	1110	1580	1290	1010
9	1550	1240	1750	1430	1120
10	1720	1380	1930	1580	1230
11	1890	1520	2100	1720	1340
12	2060	1660	2280	1860	1450
13	2240	1800	2450	2010	1560
14	2410	1940	2630	2150	1670
15	2580	2080	2800	2290	1780
16	2750	2220	2980	2440	1890
17	2930	2360	3160	2580	2000
18	3100	2500	3330	2720	2110
19	3270	2640	3510	2860	2220
20	3440	2780	3690	3000	2330

GEOGRID REINFORCEMENT
SHORT-TERM DESIGN STRENGTH (LB/FT)
(SEE NOTE 10 ON SHEET 2.)

MINIMUM REQUIRED REINFORCEMENT STRENGTH IN MD
(SEE NOTE 9 ON SHEET 2.)
*SEE PARTIAL ELEVATION ON SHEET 1
FOR REINFORCEMENT LAYER NUMBERING.



NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL
ENGINEERING UNIT

STANDARD DETAIL NO. 1801.02

STANDARD
TEMPORARY WALL
SHEET 3 OF 3

DATE: 11-19-13

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	1491000000-E BASE COURSE, B25.0C	1523000000-E SURFACE COURSE, S9.5C	1575000000-E ASPHALT BINDER FOR PLANT MIX
						MI	FT			TONS	TONS	TONS
DF18314.2045056	Henderson	1	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.94	4.02			
TOTAL FOR MAP NO. 1						0.08						
TOTAL FOR PROJ NO. DF18314.2045056						0.08						
DF18314.2045069	Henderson	2	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.29	3.37			
TOTAL FOR MAP NO. 2						0.08						
TOTAL FOR PROJ NO. DF18314.2045069						0.08						
DF18314.2045070	Henderson	3	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.52	3.6			
TOTAL FOR MAP NO. 3						0.08						
TOTAL FOR PROJ NO. DF18314.2045070						0.08						
DF18314.2045071	Henderson	4	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.61	3.69			
TOTAL FOR MAP NO. 4						0.08						
TOTAL FOR PROJ NO. DF18314.2045071						0.08						
DF18314.2045072	Henderson	5	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.88	3.96	80	40	6
TOTAL FOR MAP NO. 5						0.08				80	40	6
TOTAL FOR PROJ NO. DF18314.2045072						0.08				80	40	6
DF18314.2045073	Henderson	6	SR-1836 / POT SHOALS RD	2	2WU	0.07	18	4.09	4.16	200	100	15
TOTAL FOR MAP NO. 6						0.07				200	100	15
TOTAL FOR PROJ NO. DF18314.2045073						0.07				200	100	15
DF18314.2045074	Henderson	7	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	4.44	4.52		30	2
TOTAL FOR MAP NO. 7						0.08					30	2
TOTAL FOR PROJ NO. DF18314.2045074						0.08					30	2
DF18314.2045075	Henderson	8	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	4.58	4.66			
TOTAL FOR MAP NO. 8						0.08						
TOTAL FOR PROJ NO. DF18314.2045075						0.08						
DF18314.2045286	Henderson	9	SR-1836 / POT SHOALS RD	2	2WU	0.07	18	3.75	3.82			
TOTAL FOR MAP NO. 9						0.07						
TOTAL FOR PROJ NO. DF18314.2045286						0.07						
DF18314.2045419	Henderson	11	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	5.1	5.18			
TOTAL FOR MAP NO. 11						0.08						
TOTAL FOR PROJ NO. DF18314.2045419						0.08						
GRAND TOTAL						0.78				280	170	23

SUMMARY OF QUANTITIES

										6000000000-E	6006000000-E	6009000000-E	6029000000-E	6012000000-E	6036000000-E	6042000000-E	6071010000-E	6084000000-E	6117000000-N	6117500000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	TEMPORARY SILT FENCE	STONE FOR EROSION CONTROL, CLASS A	STONE FOR EROSION CONTROL, CLASS B	SAFETY FENCE	SEDIMENT CONTROL STONE	MATTING FOR EROSION CONTROL	1/4" HARDWARE CLOTH	WATTLE	SEED & MULCHING	RESPONSE FOR EROSION CONTROL	CONCRETE WASHOUT STRUCTURE
						MI	FT			LF	TON	TON	LF	TON	SY	LF	LF	AC	EA	EA
DF18314.2045056	Henderson	1	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.94	4.02											
TOTAL FOR MAP NO. 1						0.08														
TOTAL FOR PROJ NO. DF18314.2045056						0.08														
DF18314.2045069	Henderson	2	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.29	3.37	180	15	15		15	100	20	10	0.10	2	
TOTAL FOR MAP NO. 2						0.08				180	15	15		15	100	20	10	0.10	2	
TOTAL FOR PROJ NO. DF18314.2045069						0.08				180	15	15		15	100	20	10	0.10	2	
DF18314.2045070	Henderson	3	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.52	3.6	100	15	15	100	15	167	20	10	0.25	1	1
TOTAL FOR MAP NO. 3						0.08				100	15	15	100	15	167	20	10	0.25	1	1
TOTAL FOR PROJ NO. DF18314.2045070						0.08				100	15	15	100	15	167	20	10	0.25	1	1
DF18314.2045071	Henderson	4	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.61	3.69	100	15	15		15	786	20	10	0.25	2	
TOTAL FOR MAP NO. 4						0.08				100	15	15		15	786	20	10	0.25	2	
TOTAL FOR PROJ NO. DF18314.2045071						0.08				100	15	15		15	786	20	10	0.25	2	
DF18314.2045072	Henderson	5	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.88	3.96	100	15	15		15	275	20	10	0.25	2	
TOTAL FOR MAP NO. 5						0.08				100	15	15		15	275	20	10	0.25	2	
TOTAL FOR PROJ NO. DF18314.2045072						0.08				100	15	15		15	275	20	10	0.25	2	
DF18314.2045073	Henderson	6	SR-1836 / POT SHOALS RD	2	2WU	0.07	18	4.09	4.16	300	25	25		25	645	120	125	0.25	1	
TOTAL FOR MAP NO. 6						0.07				300	25	25		25	645	120	125	0.25	1	
TOTAL FOR PROJ NO. DF18314.2045073						0.07				300	25	25		25	645	120	125	0.25	1	
DF18314.2045074	Henderson	7	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	4.44	4.52	1,500	15	45		45	12,000	100	400	5.50	5	
TOTAL FOR MAP NO. 7						0.08				1,500	15	45		45	12,000	100	400	5.50	5	
TOTAL FOR PROJ NO. DF18314.2045074						0.08				1,500	15	45		45	12,000	100	400	5.50	5	
DF18314.2045075	Henderson	8	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	4.58	4.66	100	20	15		15	600	100	64	0.25	1	
TOTAL FOR MAP NO. 8						0.08				100	20	15		15	600	100	64	0.25	1	
TOTAL FOR PROJ NO. DF18314.2045075						0.08				100	20	15		15	600	100	64	0.25	1	
DF18314.2045286	Henderson	9	SR-1836 / POT SHOALS RD	2	2WU	0.07	18	3.75	3.82	100	15	15	100	15		20	10		1	1
TOTAL FOR MAP NO. 9						0.07				100	15	15	100	15		20	10		1	1
TOTAL FOR PROJ NO. DF18314.2045286						0.07				100	15	15	100	15		20	10		1	1
DF18314.2045419	Henderson	11	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	5.1	5.18	50		15		15	25	20	32	0.10	1	
TOTAL FOR MAP NO. 11						0.08				50		15		15	25	20	32	0.10	1	
TOTAL FOR PROJ NO. DF18314.2045419						0.08				50		15		15	25	20	32	0.10	1	
GRAND TOTAL						0.78				2,530	135	175	200	175	14,598	440	671	6.95	16	2

SUMMARY OF QUANTITIES

										8252000000-E	8834000000-N					8839000000-E			8848000000-E	8853000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	REINFORCING STEEL (RETAINING WALL)	SOIL NAIL, AVG LENGTH	SOIL NAIL PROOF TEST	WIRE BASKET FORMS	MICROPILE, AVERAGE LENGTH	MICROPILE PROOF TESTS	GEOCOMPOSITE DRAINS	SOIL NAIL, ADDITIONAL LENGTH OVER AVERAGE	MICROPILE, ADDITIONAL LENGTH OVER AVERAGE	GEOTEXTILE FOR TEMPORARY WALL	SHOTCRETE
						MI	FT			LB	EA	EA	EA	EA	EA	LF	LF	LF	SY	CY
DF18314.2045056	Henderson	1	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.94	4.02											
TOTAL FOR MAP NO. 1						0.08														
TOTAL FOR PROJ NO. DF18314.2045056						0.08														
DF18314.2045069	Henderson	2	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.29	3.37											
TOTAL FOR MAP NO. 2						0.08														
TOTAL FOR PROJ NO. DF18314.2045069						0.08														
DF18314.2045070	Henderson	3	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.52	3.6	450	76	6	50			450	60		500	150
TOTAL FOR MAP NO. 3						0.08				450	76	6	50			450	60		500	150
TOTAL FOR PROJ NO. DF18314.2045070						0.08				450	76	6	50			450	60		500	150
DF18314.2045071	Henderson	4	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.61	3.69											
TOTAL FOR MAP NO. 4						0.08														
TOTAL FOR PROJ NO. DF18314.2045071						0.08														
DF18314.2045072	Henderson	5	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.88	3.96											
TOTAL FOR MAP NO. 5						0.08														
TOTAL FOR PROJ NO. DF18314.2045072						0.08														
DF18314.2045073	Henderson	6	SR-1836 / POT SHOALS RD	2	2WU	0.07	18	4.09	4.16											
TOTAL FOR MAP NO. 6						0.07														
TOTAL FOR PROJ NO. DF18314.2045073						0.07														
DF18314.2045074	Henderson	7	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	4.44	4.52											
TOTAL FOR MAP NO. 7						0.08														
TOTAL FOR PROJ NO. DF18314.2045074						0.08														
DF18314.2045075	Henderson	8	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	4.58	4.66											
TOTAL FOR MAP NO. 8						0.08														
TOTAL FOR PROJ NO. DF18314.2045075						0.08														
DF18314.2045286	Henderson	9	SR-1836 / POT SHOALS RD	2	2WU	0.07	18	3.75	3.82	100	12	1	50	400	2	60	9	100	500	12
TOTAL FOR MAP NO. 9						0.07				100	12	1	50	400	2	60	9	100	500	12
TOTAL FOR PROJ NO. DF18314.2045286						0.07				100	12	1	50	400	2	60	9	100	500	12
DF18314.2045419	Henderson	11	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	5.1	5.18											
TOTAL FOR MAP NO. 11						0.08														
TOTAL FOR PROJ NO. DF18314.2045419						0.08														
GRAND TOTAL						0.78				550	88	7	100	400	2	510	69	100	1,000	161.5

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	CONSTRUCTION SURVEYING	GRADING	BORROW	DRAINAGE DITCH EXCAVATION	REMOVAL OF EXISTING ASPHALT PAVEMENT	GEOTEXTILE FOR ROCK EMBANKMENTS	SELECT MATERIAL, CLASS (VI)	SELECT MATERIAL, CLASS (VII)	24" DRAINAGE PIPE	PIPE CLEAN OUT	#57 STONE	INCIDENTAL STONE BASE	6" PERFORATED SUBDRAIN PIPE	6" OUTLET PIPE	RIP RAP, CLASS A	RIP RAP, CLASS B	VEGETATIVE DEBRIS REMOVAL AND DISPOSAL															
						MI	FT									LS	LS										CY	CY	SY	SY	TON	TON	LF	EA	TON	TONS	LF	LF	TON	TON	CY
						0.08	18	3.94	4.02							0.10	0.10																								
DF18314.2045056	Henderson	1	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.94	4.02	0.10	0.10										10				50																
TOTAL FOR MAP NO. 1						0.08				0.10	0.10									10				50																	
TOTAL FOR PROJ NO. DF18314.2045056						0.08				0.10	0.10									10				50																	
DF18314.2045069	Henderson	2	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.29	3.37	0.10	0.10		37		840	300	425		1	200	10	500	200	200	75																
TOTAL FOR MAP NO. 2						0.08				0.10	0.10		37		840	300	425		1	200	10	500	200	200	75																
TOTAL FOR PROJ NO. DF18314.2045069						0.08				0.10	0.10		37		840	300	425		1	200	10	500	200	200	75																
DF18314.2045070	Henderson	3	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.52	3.6	0.10	0.10	2,000							2		10				105																
TOTAL FOR MAP NO. 3						0.08				0.10	0.10	2,000							2		10				105																
TOTAL FOR PROJ NO. DF18314.2045070						0.08				0.10	0.10	2,000							2		10				105																
DF18314.2045071	Henderson	4	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.61	3.69	0.10	0.10		10						1		10				60																
TOTAL FOR MAP NO. 4						0.08				0.10	0.10		10						1		10				60																
TOTAL FOR PROJ NO. DF18314.2045071						0.08				0.10	0.10		10						1		10				60																
DF18314.2045072	Henderson	5	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.88	3.96	0.10	0.10		38	30	600	25	50		1	20	20	400	150	20	20	45															
TOTAL FOR MAP NO. 5						0.08				0.10	0.10		38	30	600	25	50		1	20	20	400	150	20	20	45															
TOTAL FOR PROJ NO. DF18314.2045072						0.08				0.10	0.10		38	30	600	25	50		1	20	20	400	150	20	20	45															
DF18314.2045073	Henderson	6	SR-1836 / POT SHOALS RD	2	2WU	0.07	18	4.09	4.16	0.10	0.10	4,800	57	715					2		75																				
TOTAL FOR MAP NO. 6						0.07				0.10	0.10	4,800	57	715					2		75																				
TOTAL FOR PROJ NO. DF18314.2045073						0.07				0.10	0.10	4,800	57	715					2		75																				
DF18314.2045074	Henderson	7	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	4.44	4.52	0.10	0.10			196	600	25	50	60	3	20	65	400	150	20	20	450															
TOTAL FOR MAP NO. 7						0.08				0.10	0.10			196	600	25	50	60	3	20	65	400	150	20	20	450															
TOTAL FOR PROJ NO. DF18314.2045074						0.08				0.10	0.10			196	600	25	50	60	3	20	65	400	150	20	20	450															
DF18314.2045075	Henderson	8	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	4.58	4.66	0.10	0.10		30		625	250	295		1	150		1,000	300	150	150																
TOTAL FOR MAP NO. 8						0.08				0.10	0.10		30		625	250	295		1	150		1,000	300	150	150																
TOTAL FOR PROJ NO. DF18314.2045075						0.08				0.10	0.10		30		625	250	295		1	150		1,000	300	150	150																
DF18314.2045286	Henderson	9	SR-1836 / POT SHOALS RD	2	2WU	0.07	18	3.75	3.82	0.10	0.10	2,000			300	125	150	10	1	75	10	500	150	75	75																
TOTAL FOR MAP NO. 9						0.07				0.10	0.10	2,000			300	125	150	10	1	75	10	500	150	75	75																
TOTAL FOR PROJ NO. DF18314.2045286						0.07				0.10	0.10	2,000			300	125	150	10	1	75	10	500	150	75	75																
DF18314.2045419	Henderson	11	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	5.1	5.18	0.10	0.10				600	25	50		2	20		400	150	20	20	150															
TOTAL FOR MAP NO. 11						0.08				0.10	0.10				600	25	50		2	20		400	150	20	20	150															
TOTAL FOR PROJ NO. DF18314.2045419						0.08				0.10	0.10				600	25	50		2	20		400	150	20	20	150															
GRAND TOTAL						0.78				1	1	8,800	172	941	3,565	750	1,020	70	14	485	210	3,200	1,100	485	485	935															

SUMMARY OF QUANTITIES

										3030000000-E	3288000000-N	3360000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	STEEL BEAM GUARDRAIL	GUARDRAIL END UNITS, TYPE TL-2	REMOVE EXISTING GUARDRAIL
						MI	FT			LF	EA	LF
DF18314.2045056	Henderson	1	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.94	4.02	50	1	50
TOTAL FOR MAP NO. 1						0.08				50	1	50
TOTAL FOR PROJ NO. DF18314.2045056						0.08				50	1	50
DF18314.2045069	Henderson	2	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.29	3.37			
TOTAL FOR MAP NO. 2						0.08						
TOTAL FOR PROJ NO. DF18314.2045069						0.08						
DF18314.2045070	Henderson	3	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.52	3.6			
TOTAL FOR MAP NO. 3						0.08						
TOTAL FOR PROJ NO. DF18314.2045070						0.08						
DF18314.2045071	Henderson	4	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.61	3.69			
TOTAL FOR MAP NO. 4						0.08						
TOTAL FOR PROJ NO. DF18314.2045071						0.08						
DF18314.2045072	Henderson	5	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.88	3.96	25	1	25
TOTAL FOR MAP NO. 5						0.08				25	1	25
TOTAL FOR PROJ NO. DF18314.2045072						0.08				25	1	25
DF18314.2045073	Henderson	6	SR-1836 / POT SHOALS RD	2	2WU	0.07	18	4.09	4.16			
TOTAL FOR MAP NO. 6						0.07						
TOTAL FOR PROJ NO. DF18314.2045073						0.07						
DF18314.2045074	Henderson	7	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	4.44	4.52			
TOTAL FOR MAP NO. 7						0.08						
TOTAL FOR PROJ NO. DF18314.2045074						0.08						
DF18314.2045075	Henderson	8	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	4.58	4.66			
TOTAL FOR MAP NO. 8						0.08						
TOTAL FOR PROJ NO. DF18314.2045075						0.08						
DF18314.2045286	Henderson	9	SR-1836 / POT SHOALS RD	2	2WU	0.07	18	3.75	3.82			
TOTAL FOR MAP NO. 9						0.07						
TOTAL FOR PROJ NO. DF18314.2045286						0.07						
DF18314.2045419	Henderson	11	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	5.1	5.18			
TOTAL FOR MAP NO. 11						0.08						
TOTAL FOR PROJ NO. DF18314.2045419						0.08						
GRAND TOTAL						0.78				75	2	75

SUMMARY OF QUANTITIES

										4400000000-E	4405000000-E	4420000000-N	4424500000-N	4430000000-N	4455000000-N	4465000000-N	4490000000-E	4815000000-E	4815000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	STATIONARY WORK ZONE SIGN	PORTABLE WORK ZONE SIGN	PORTABLE CHANGEABLE MESSAGE SIGN	TEMPORARY PORTABLE TRAFFIC SIGNAL SYSTEM	DRUMS	FLAGGER (DAILY)	TEMPORARY CRASH CUSHIONS	PORTABLE CONCRETE BARRIER (ANCHORED)	6" WHITE PAINT	6" YELLOW PAINT
						MI	FT			SF	SF	EA	EA	EA	MD	EA	LF	LF	LF
DF18314.2045056	Henderson	1	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.94	4.02	32									
TOTAL FOR MAP NO. 1						0.08				32									
TOTAL FOR PROJ NO. DF18314.2045056						0.08				32									
DF18314.2045069	Henderson	2	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.29	3.37	16	16	1		10	8			8	8
TOTAL FOR MAP NO. 2						0.08				16	16	1		10	8			8	8
TOTAL FOR PROJ NO. DF18314.2045069						0.08				16	16	1		10	8			8	8
DF18314.2045070	Henderson	3	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.52	3.6	16	16			10	10				
TOTAL FOR MAP NO. 3						0.08				16	16			10	10				
TOTAL FOR PROJ NO. DF18314.2045070						0.08				16	16			10	10				
DF18314.2045071	Henderson	4	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.61	3.69	16	16			10	6				
TOTAL FOR MAP NO. 4						0.08				16	16			10	6				
TOTAL FOR PROJ NO. DF18314.2045071						0.08				16	16			10	6				
DF18314.2045072	Henderson	5	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	3.88	3.96	16	16			10	10			120	120
TOTAL FOR MAP NO. 5						0.08				16	16			10	10			120	120
TOTAL FOR PROJ NO. DF18314.2045072						0.08				16	16			10	10			120	120
DF18314.2045073	Henderson	6	SR-1836 / POT SHOALS RD	2	2WU	0.07	18	4.09	4.16	16	16			10				2,320	2,320
TOTAL FOR MAP NO. 6						0.07				16	16			10				2,320	2,320
TOTAL FOR PROJ NO. DF18314.2045073						0.07				16	16			10				2,320	2,320
DF18314.2045074	Henderson	7	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	4.44	4.52	16	16		1	25		2	150	200	200
TOTAL FOR MAP NO. 7						0.08				16	16		1	25		2	150	200	200
TOTAL FOR PROJ NO. DF18314.2045074						0.08				16	16		1	25		2	150	200	200
DF18314.2045075	Henderson	8	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	4.58	4.66	16	16			10	6				
TOTAL FOR MAP NO. 8						0.08				16	16			10	6				
TOTAL FOR PROJ NO. DF18314.2045075						0.08				16	16			10	6				
DF18314.2045286	Henderson	9	SR-1836 / POT SHOALS RD	2	2WU	0.07	18	3.75	3.82	16	16			10	10				
TOTAL FOR MAP NO. 9						0.07				16	16			10	10				
TOTAL FOR PROJ NO. DF18314.2045286						0.07				16	16			10	10				
DF18314.2045419	Henderson	11	SR-1836 / POT SHOALS RD	2	2WU	0.08	18	5.1	5.18	16	16	1		10	4				
TOTAL FOR MAP NO. 11						0.08				16	16	1		10	4				
TOTAL FOR PROJ NO. DF18314.2045419						0.08				16	16	1		10	4				
GRAND TOTAL						0.78				176	144	2	1	105	54	2	150	2,648	2,648