



Driller: T. McGovern	Connecticut DOT Boring Report			Hole No.: SLR-1			
Inspector: D. LaMesa	Town: Putnam			Sta./Offset: N/A			
Engineer: SLR Consulting	Project No.: 0115-0122			Northing: Not Available			
Start Date: 8/11/2022	Route No.: 44			Eastings: Not Available			
Finish Date: 8/11/2022	Bridge No.: Surface Elevation: 238' +/-						
Project Description: Replacement of Retaining Wall along Route 44							
Casing Size/Type: 4" ID FJ (HW) Sampler Type/Size: 1 3/8" ID SS							
Hammer Wt.: 300 Fall: 24in. Hammer Wt.: 140 Fall: 30in.							
Groundwater Observations: Groundwater Not Measured Due to Drilling Methods							
SAMPLES							
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)			
				RQD %			
5	S-1	8 9 9 14 24	23				
10	S-2	6 12 15 23 24	19				
15	S-3	12 18 25 27 24	18				
20	S-4	12 28 24 28 24	24				
25	S-5	12 16 21 25 24	24				
30	S-6	13 18 22 26 24	17				
35	S-7	12 15 18 21 24	19				
40	S-8	15 21 23 37 24	14				
45	S-9	11 15 18 20 24	16				
Material Description and Notes							
Elevation (ft)							
PAVEMENT STR.							
4.5" Asphalt							
Light brown, F SAND, some Silt							
- 233' +/-							
GRAVELLY SAND							
Brown, C-F SAND and M-F GRAVEL, trace Silt							
- 264' +/-							
SILTY SAND							
Light brown, F SAND, trace Silt							
- 228' +/-							
SILTY SAND							
Orange brown, F SAND, little Silt, wet							
- 223' +/-							
SILTY SAND							
Light brown, F SAND, little Silt, wet							
- 218' +/-							
SILTY SAND							
Light brown, F SAND, little Silt							
- 213' +/-							
SILTY SAND							
Gray-brown, F SAND, little Silt							
- 208' +/-							
SILTY SAND							
Gray-brown, F SAND, little Silt							
- 203' +/-							
SILTY SAND							
Gray-brown, F SAND and SILT							
- 198' +/-							
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test							
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%							
Total Penetration in Earth: 50ft Rock: Off							
NOTES: 1) Flush-point casing advanced to 10 feet below grade (bog) prior to introducing bentonite drilling mud and continuing bore open-hole. 2) Stratification lines represent approx. boundaries between soil types, transitions may be gradual. 3) Water level readings have been made at times and under conditions stated, fluctuations may occur due to other factors.							
Sheet 1 of 2							

Driller: T. McGovern	Connecticut DOT Boring Report			Hole No.: SLR-2			
Inspector: D. LaMesa	Town: Putnam			Sta./Offset: N/A			
Engineer: SLR Consulting	Project No.: 0115-0122			Northing: Not Available			
Start Date: 8/1/2022	Route No.: 44			Eastings: Not Available			
Finish Date: 8/10/2022	Bridge No.: Surface Elevation: 268' +/-						
Project Description: Replacement of Retaining Wall along Route 44							
Casing Size/Type: 4" ID FJ (HW) Sampler Type/Size: 1 3/8" ID SS							
Hammer Wt.: 300 Fall: 24in. Hammer Wt.: 140 Fall: 30in.							
Groundwater Observations: Groundwater Not Measured Due to Drilling Methods							
SAMPLES							
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)			
				RQD %			
5	S-1	8 9 9 14 24	23				
10	S-2	6 12 15 23 24	19				
15	S-3	12 18 25 27 24	18				
20	S-4	12 28 24 28 24	24				
25	S-5	12 16 21 25 24	24				
30	S-6	14 18 18 16 24	8				
35	S-7	11 16 21 28 24	10				
40	S-8	13 18 19 26 24	4				
45	S-9	19 29 47 40 24	17				
Material Description and Notes							
Elevation (ft)							
PAVEMENT STR.							
4" Asphalt							
Light brown, F SAND and SILT							
- 239' +/-							
GRAVELLY SAND							
Brown, C-F SAND and M-F GRAVEL, trace Silt							
- 264' +/-							
SILTY SAND							
Light brown, F SAND, trace Silt							
- 259' +/-							
SILTY SAND							
Gray-brown, F SAND, little Silt							
- 254' +/-							
SILTY SAND							
Gray-brown, F SAND, little Silt							
- 249' +/-							
SILTY SAND							
Light brown, SILT, little F Sand, wet							
- 244' +/-							
SILTY SAND							
Light brown, F SAND and SILT							
- 234' +/-							
SILTY SAND							
Light brown, F SAND and SILT							
- 229' +/-							
SILTY SAND							
Light brown, F SAND, little Silt, wet							
- 224' +/-							
SILTY SAND							
Light brown, F SAND and SILT							
- 219' +/-							
SILTY SAND							
Light brown, F SAND, little Silt							
- 214' +/-							
SILTY SAND							
Light brown, F SAND and SILT							
- 209' +/-							
SILTY SAND							
END OF BORING AT 35ft							
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test							
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%							
Total Penetration in Earth: 70ft Rock: Off							
NOTES: 1) Stratification lines represent approx. boundaries between soil types, transitions may be gradual. 2) Water level readings have been made at times and under conditions stated, fluctuations may occur due to other factors. 3) Drilling chatter observed from about 38 to 39.5ft							

Connecticut DOT Boring Report																	
Driller: N. Kenney		Inspector: G. Arzt		Project No.: 0170-3234		Start Date: 4-27-17		Finish Date: 4-28-17									
Town: Putnam		Town: Putnam		Northing: 894901		Easting: 1227680		Surface Elevation: 271.9									
Project Description: Retaining Wall on Route 44		Casing Size/Type: 4" HSA		Sampler Type/Size: SS 1 3/8" ID		Core Barrel Type:											
Hammer Wt.: Fall: in		Hammer Wt.: 140		Fall: 30in													
Groundwater Observations: @Dry after 0 hours																	
SAMPLES																	
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RDD %	Generalized Strata Description	Material Description and Notes		Elevation (ft)								
0	S-1	14 14 13 13	24	18		Pavement Structure Gravely Sand	Brown F-C SAND, and C-F GRAVEL, trace Silt		-270								
5	S-2	9 12 11 12	24	20		Brown C-F SAND, little F-C Gravel, trace Silt											
10	S-3	8 7 12 21	24	16		Brown C-F SAND, and C-F GRAVEL, trace Silt	Brown C-F SAND, and C-F GRAVEL, trace Silt		-265								
15	S-4	22 23 21 26	24	16		Tan C-F GRAVEL, and C-F SAND, trace Silt	Tan C-F GRAVEL, and C-F SAND, trace Silt		-265								
20	S-5	4 4 4 5	24	16		Tan-Gray F-C SAND, and SILT	Tan-Gray F-C SAND, and SILT		-260								
25	S-6	5 6 7 7	24	18		Tan-Gray F-C SAND, and SILT	Tan-Gray F-C SAND, and SILT		-255								
30	S-7	9 13 14 15	24	0		Tan-Gray F-C SAND, and SILT	Tan-Gray F-C SAND, and SILT		-255								
35	S-8	16 12 10 10	24	0		Tan-Gray F-C SAND, and SILT	Tan-Gray F-C SAND, and SILT		-255								
40	S-9	8 9 10 12	24	20		Tan-Gray SILT, and F-C SAND	Tan-Gray SILT, and F-C SAND		-250								
45	S-10	5 6 7 8	24	24		Tan-Gray F-C SAND, and C-F GRAVEL, trace Silt	Tan-Gray F-C SAND, and C-F GRAVEL, trace Silt		-250								
50	S-11	7 8 8 8	24	23		Tan-Gray F-C SAND, some Silt	Tan-Gray F-C SAND, some Silt		-245								
55	S-12	5 5 7 8	24	24		Tan-Gray F-C SAND, little Silt	Tan-Gray F-C SAND, little Silt		-245								
60	S-13	7 9 11 12	24	23		Tan-Gray F-C SAND, little Silt	Tan-Gray F-C SAND, little Silt		-245								
	S-14	6 5 7 7	24	24		Tan-Gray SILT, and F-C SAND	Tan-Gray SILT, and F-C SAND										

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test  
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%  
Total Penetration in Earth: 52ft Rock: Off  
No. of Soil Samples: 20 No. of Core Runs: 0

Connecticut DOT Boring Report																	
Driller: N. Kenney		Inspector: G. Arzt		Project No.: 0170-3234		Start Date: 4-26-17		Finish Date: 4-27-17									
Town: Putnam		Town: Putnam		Northing: 894920		Easting: 1227701		Surface Elevation: 271.4									
Project Description: Retaining Wall on Route 44		Casing Size/Type: 4" HSA		Sampler Type/Size: SS 1 3/8" ID		Core Barrel Type:											
Hammer Wt.: Fall: in		Hammer Wt.: 140		Fall: 30in													
Groundwater Observations: @Dry after 0 hours																	
SAMPLES																	
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RDD %	Generalized Strata Description	Material Description and Notes		Elevation (ft)								
0	S-1	10 18 19 20	24	14		Pavement Structure Sandy Gravel	Tan C-F GRAVEL, some F-C Sand, trace Silt		-270								
5	S-2	19 20 28 24	24	15		Tan C-F GRAVEL, some C-F Sand, trace Silt	Tan C-F GRAVEL, some C-F Sand, trace Silt										
10	S-3	12 27 16 15	24	14		Tan-Brown C-F GRAVEL, some F-C Sand, trace Silt	Tan-Brown C-F GRAVEL, some F-C Sand, trace Silt		-265								
15	S-4	14 7 7 9	24	13		Tan C-F SAND, and C-F GRAVEL, trace Silt	Tan C-F SAND, and C-F GRAVEL, trace Silt		-265								
20	S-5	6 6 10 7	24	4		Tan C-F GRAVEL, some C-F Sand, trace Silt	Tan C-F GRAVEL, some C-F Sand, trace Silt		-260								
25	S-6	5 5 7 8	24	4		Tan C-F GRAVEL, and C-F SAND, trace Silt	Tan C-F GRAVEL, and C-F SAND, trace Silt		-255								
30	S-7	6 6 6 6	24	13		Tan F-C SAND, and SILT	Tan F-C SAND, and SILT		-255								
35	S-8	7 8 9 10	24	0		Tan F-C SAND, and SILT	Tan F-C SAND, and SILT		-255								
40	S-9	5 5 6 7	24	16		Tan SILT, and F-C SAND	Tan SILT, and F-C SAND		-250								
45	S-10	7 6 8 7	24	21		Tan F-C SAND, and SILT	Tan F-C SAND, and SILT		-250								
50	S-11	7 8 10 10	24	20		Tan F-C SAND, some Silt	Tan F-C SAND, some Silt		-245								
55	S-12	7 7 7 9	24	20		Tan F-C SAND, little Silt	Tan F-C SAND, little Silt		-245								
60	S-13	7 9 11 12	24	22		Tan F-C SAND, some Silt	Tan F-C SAND, some Silt		-245								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test  
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%  
Total Penetration in Earth: 52ft Rock: Off  
No. of Soil Samples: 20 No. of Core Runs: 0

Connecticut DOT Boring Report																	
Driller: N. Kenney		Inspector: G. Arzt		Project No.: 0170-3234		Start Date: 4-25-17		Finish Date: 4-26-17									
Town: Putnam		Town: Putnam		Northing: 894948		Easting: 1227735		Surface Elevation: 270.4									
Project Description: Retaining Wall on Route 44		Casing Size/Type: 4" HSA		Sampler Type/Size: SS 1 3/8" ID		Core Barrel Type:											
Hammer Wt.: Fall: in		Hammer Wt.: 140		Fall: 30in													
Groundwater Observations: @Dry after 0 hours																	
SAMPLES																	
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RDD %	Generalized Strata Description	Material Description and Notes		Elevation (ft)								
0	S-1	7 4 5 8	24	1		Pavement Structure Sandy Gravel	Tan-Brown F-C SAND, some C-F Gravel, trace Silt		-270								
5	S-2	13 10 9 15	24	16		Tan-Brown F-C SAND, some C-F Gravel, trace Silt	Tan-Brown F-C SAND, some C-F Gravel, trace Silt		-265								
10	S-3																

Connecticut DOT Boring Report																	
Driller: B. Perry		Inspector: G. Arzt		Town: Putnam		Project No.: 0170-3234		Hole No.: B-5									
Engineer: R. Pion		Start Date: 5-2-17		Route No.: 44		Nothing: 894999		Stat./Offset:									
Bridge No.: 44		Easting: 1227800		Surface Elevation: 269.1													
Project Description: Retaining Wall on Route 44																	
Casing Size/Type: 4" HSA		Sampler Type/Size: SS 1 3/8" ID		Core Barrel Type:													
Hammer WL: Fall: in.		Hammer WL: Fall: 30in															
Groundwater Observations: @Dry after 0 hours																	
SAMPLES																	
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes		Elevation (ft)								
0	S-1	3 3 4 4	24	6	60	Pavement Structure Sandy Gravel	Brown C-F GRAVEL, and C-F SAND, trace Silt										
5	S-2	6 6 4 6	24	7	60	Tan F-C SAND, some C-F Gravel, trace Silt	Tan-Brown C-F GRAVEL, and C-F SAND, trace Silt		-265								
10	S-3	2 4 4 3	24	7	60	Tan-Gray C-F GRAVEL, and C-F SAND, trace Silt	Silty Sand		-260								
15	S-4	5 4 4 5	24	16	60	Tan-Gray F-C SAND, and SILT	Tan F-C SAND, and SILT		-260								
20	S-5	12 8 5 6	24	14	60	Tan-Gray F-C SAND, and SILT	Tan F-C SAND, and SILT		-260								
25	S-6	5 6 7 6	24	20	60	Tan-Gray F-C SAND, and SILT	Tan-Gray F-C SAND, some Silt		-255								
30	S-7	3 4 5 5	24	15	60	Tan-Gray F-C SAND, and SILT	Tan-Gray F-C SAND, some Silt		-255								
35	S-8	4 4 5 6	24	22	60	Tan-Gray F-C SAND, some Silt	Tan-Gray F-C SAND, some Silt		-250								
40	S-9	7 8 9 11	24	18	60	Tan-Gray F-C SAND, and SILT	Sandy Silt		-250								
45	S-10	5 6 5 5	24	22	60	Tan-Gray SILT, some F-C Sand	Sandy Silt		-250								
50	S-11	5 9 9 10	24	21	60	Tan-Gray SILT, little F-C Sand	Sand		-250								
55	S-12	5 6 8 7	24	24	60	Tan-Gray F-C SAND, some Silt	Sandy Silt		-245								
60	S-13	4 6 8 7	24	22	60	Tan-Gray SILT, and F-C SAND	Silty Sand		-245								
	S-14	8 11 12 12	24	21	60	Tan-Gray F-C SAND, and SILT	Tan-Gray F-C SAND, little Silt		-240								
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test																	
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%																	
Total Penetration in	NOTES: Pavement structure consists of 8" of bituminous concrete pavement on 6" of Portland cement concrete pavement with no discernable subbase		Sheet 1 of 2														
Earth: 52ft	Rock: 0ft																
No. of Soil Samples: 21	No. of Core Runs: 0																
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Connecticut DOT Boring Report																	
Driller: B. Perry		Inspector: G. Arzt		Town: Putnam		Project No.: 0170-3234		Hole No.: B-5									
Engineer: R. Pion		Start Date: 5-2-17		Route No.: 44		Nothing: 894999		Stat./Offset:									
Bridge No.: 44		Easting: 1227800		Surface Elevation: 269.1													
Project Description: Retaining Wall on Route 44																	
Casing Size/Type: 4" HSA		Sampler Type/Size: SS 1 3/8" ID		Core Barrel Type:													
Hammer WL: Fall: in.		Hammer WL: Fall: 30in															
Groundwater Observations: @Dry after 0 hours																	
SAMPLES																	
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes		Elevation (ft)								
30	S-15	5 6 8 9	24	18	60	Silty Sand (cont)	Tan-Gray F-C SAND, some Silt										
35	S-16	8 8 8 11	24	20	60	Tan-Gray F-C SAND, little Silt	Tan-Gray F-C SAND, little Silt		-235								
40	S-17	7 9 12 12	24	15	60	Tan-Gray F-C SAND, some Silt	Tan-Gray F-C SAND, little Silt		-235								
45	S-18	10 13 14 16	24	19	60	Tan-Gray F-C SAND, some Silt	Tan-Gray F-C SAND, little Silt		-230								
50	S-19	5 7 10 12	24	18	60	Tan-Gray F-C SAND, some Silt	Tan-Gray F-C SAND, trace Silt		-225								
55	S-20	4 4 6 7	24	20	60	Brown F-C SAND, some Silt	Brown F-C SAND, little Silt		-220								
60	S-21	4 6 12 12	24	24	60	Brown F-C SAND, little Silt	Brown F-C GRAVEL, some Silt, some F-C Sand		-215								
	END OF BORING 52ft																
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test																	
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%																	
Total Penetration in	NOTES: Pavement structure consists of 8" of bituminous concrete pavement on 6" of Portland cement concrete pavement with no discernable subbase		Sheet 2 of 2														
Earth: 52ft	Rock: 0ft																
No. of Soil Samples: 21	No. of Core Runs: 0																
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Connecticut DOT Boring Report									
Driller: B. Perry		Inspector: G. Arzt		Town: Putnam		Project No.: 0170-3234			

Connecticut DOT Boring Report																	
Driller: B. Perry		Inspector: G. Arzt		Town: Putnam		Project No.: 0170-3234		Northing: 895104									
Engineer: R. Pion		Start Date: 5-4-17		Route No.: 44		Easting: 1227931		Surface Elevation: 267.2									
Project Description: Retaining Wall on Route 44		Casing Size/Type: 4" HSA		Sampler Type/Size: SS 1 3/8" ID		Core Barrel Type:											
Hammer Wt.: Fall: in. Hammer Wt.: 140 Fall: 30in																	
Groundwater Observations: @Dry after 0 hours																	
SAMPLES																	
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in)	Rec. (in)	RQD %	Generalized Strata Description	Material Description and Notes		Elevation (ft)								
0	S-1	6 13 12 9	24	12		Pavement Structure Sandy Gravel	Brown-Tan C-F GRAVEL, and C-F SAND, trace Silt		265								
5	S-2	13 5 6 7	24	14		Sandy Silt	Tan-Gray SILT, and F-C SAND, trace C-F Gravel										
5	S-3	9 6 5 5	24	15		Silty Sand	Tan-Gray F-C SAND, and SILT		260								
8	S-4	7 8 8	24	14		Sandy Silt	Tan-Gray SILT, and F-C SAND										
10	S-5	3 3 4 6	24	17			Tan-Gray SILT, some F-C Sand										
10	S-6	4 6 5 6	24	24		Silty Sand	Tan-Gray SILT, and F-C SAND		255								
15	S-7	4 4 4 5	24	16			Tan-Gray F-C SAND, little Silt										
15	S-8	4 4 4 6	24	16			Tan-Gray F-C SAND, little Silt		250								
15	S-9	4 4 5 6	24	19			Tan-Gray F-C SAND, some Silt										
20	S-10	4 5 6 8	24	16			Tan F-C SAND, little Silt										
20	S-11	7 7 7 7	24	21			Tan-Gray F-C SAND, little Silt		245								
20	S-12	4 6 8 10	24	20			Tan-Gray F-C SAND, little Silt										
25	S-13	5 8 8 8	24	16		Sand	Tan-Gray F-C SAND, trace Silt		240								
25	S-14	5 7 8 9	24	18			Tan-Gray F-C SAND, trace Silt										
30																	

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test  
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 37ft Rock: 0ft

No. of Soil Samples: 19 No. of Core Runs: 0

Sheet 1 of 2

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Connecticut DOT Boring Report																	
Driller: B. Perry		Inspector: G. Arzt		Town: Putnam		Project No.: 0170-3234		Northing: 895137									
Engineer: R. Pion		Start Date: 5-5-17		Route No.: 44		Easting: 1227972		Surface Elevation: 266.7									
Project Description: Retaining Wall on Route 44		Casing Size/Type: 4" HSA		Sampler Type/Size: SS 1 3/8" ID		Core Barrel Type:											
Hammer Wt.: Fall: in. Hammer Wt.: 140 Fall: 30in																	
Groundwater Observations: @Dry after 0 hours																	
SAMPLES																	
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in)	Rec. (in)	RQD %	Generalized Strata Description	Material Description and Notes		Elevation (ft)								
0	S-1	12 13 14 13	24	10		Pavement Structure Sandy Gravel	Tan C-F GRAVEL, and C-F SAND, trace Silt		265								
5	S-2	8 10 6 6	24	12		Silty Sand	Gray-Tan F-C SAND, and SILT, trace C-F Gravel										
5	S-3	9 6 5 7	24	14		Sandy Silt	Gray-Tan SILT, and F-C SAND		260								
8	S-4	7 8 8	24	14			Gray-Tan SILT, trace F-C Sand										
10	S-5	3 3 4 6	24	17			Gray-Tan SILT, and F-C SAND										
10	S-6	4 6 5 6	24	24		Silty Sand	Gray-Tan F-C SAND, some Silt		255								
15	S-7	4 4 4 5	24	16			Gray-Tan F-C SAND, little Silt										
15	S-8	4 4 4 6	24	16			Gray-Tan F-C SAND, little Silt		250								
15	S-9	4 4 5 6	24	19			Gray-Tan F-C SAND, some Silt										
20	S-10	4 5 6 8	24	16			Gray-Tan F-C SAND, trace Silt		245								
20	S-11	7 8 10 11	24	20			Gray-Tan F-C SAND, trace Silt										
20	S-12	5 7 9 9	24	19			Gray-Tan F-C SAND, trace Silt		240								
25	S-13	5 6 7 8	24	20			Gray-Tan F-C SAND, trace C-F Gravel, trace Silt										
25	S-14	5 9 8 9	24	16			Gray-Tan F-C SAND, trace Silt										
30																	

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test  
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

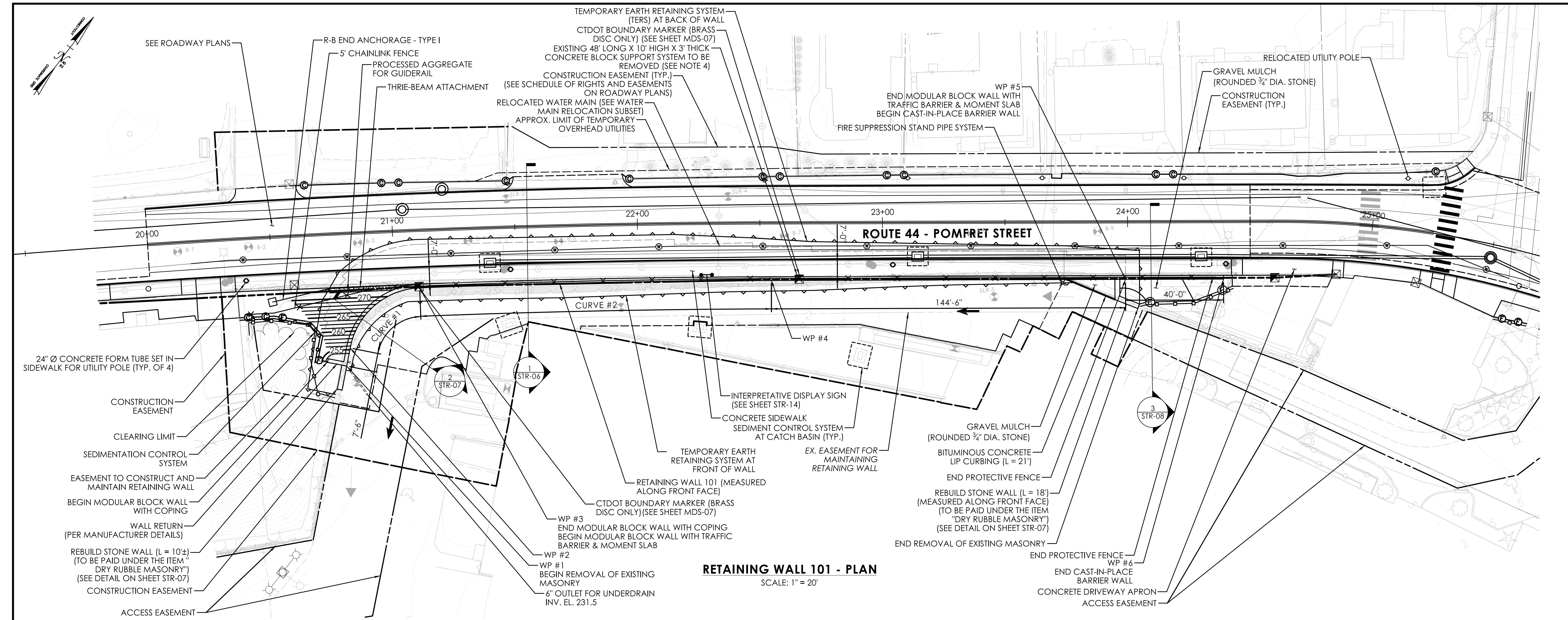
Total Penetration in Earth: 34.5ft Rock: 0ft

No. of Soil Samples: 18 No. of Core Runs: 0

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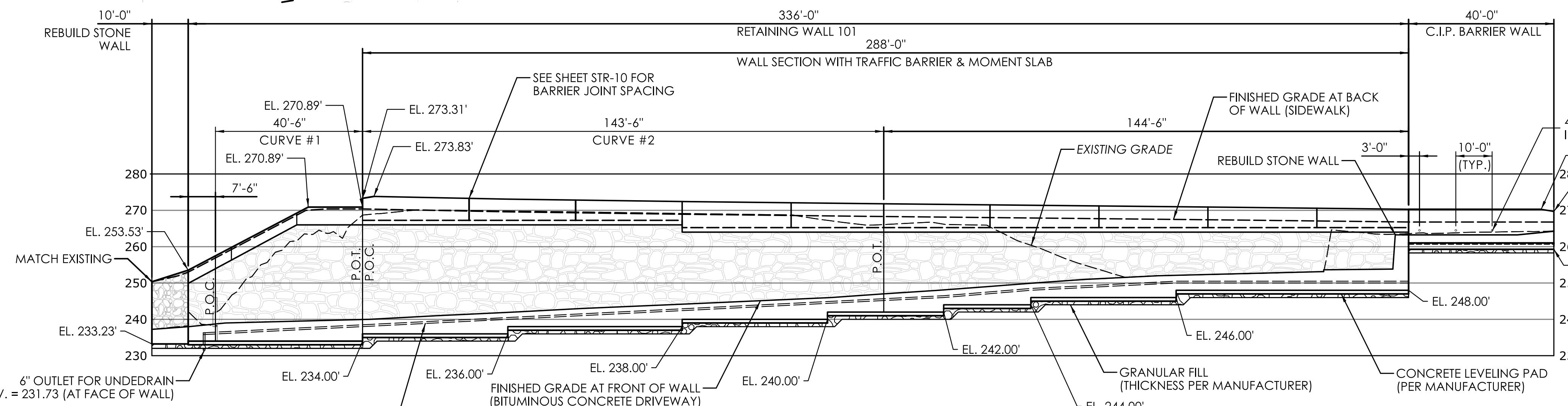
SM-001-M REV. 1/02

Connecticut DOT Boring Report																	
Driller: B. Perry		Inspector: G. Arzt		Town: Putnam		Project No.: 0170-3234		Northing: 895104									
Engineer: R. Pion		Start Date: 5-5-17		Route No.: 44		Easting: 1227931		Surface Elevation: 267.2									
Project Description: Retaining Wall on Route 44		Casing Size/Type: 4" HSA		Sampler Type/Size: SS 1 3/8" ID		Core Barrel Type:											
Hammer Wt.: Fall: in. Hammer Wt.: 140 Fall: 30in																	
Groundwater Observations: @Dry after 0 hours																	
SAMPLES																	
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in)	Rec. (in)	RQD %	Generalized Strata Description	Material Description and Notes		Elevation (ft)								
30	S-15	7 12 10 9	24	18		Sand (cont) Silty Sand	Tan-Gray F-C SAND, trace Silt, trace F-C Gravel										
30	S-16	15 15 19 22	24	22		Sandy Gravel	Tan-Gray F-C SAND, little Silt		235								
35	S-17	6 14 16 27	24	18			Tan-Gray C-F GRAVEL, some F-C Sand, some Silt										
35	S-18	22 38 47 90/															



## **RETAINING WALL 101 - PLAN**

SCALE: 1" = 20'



## RETAINING WALL 101 - ELEVATION

SCALE 1" = 20'-0"

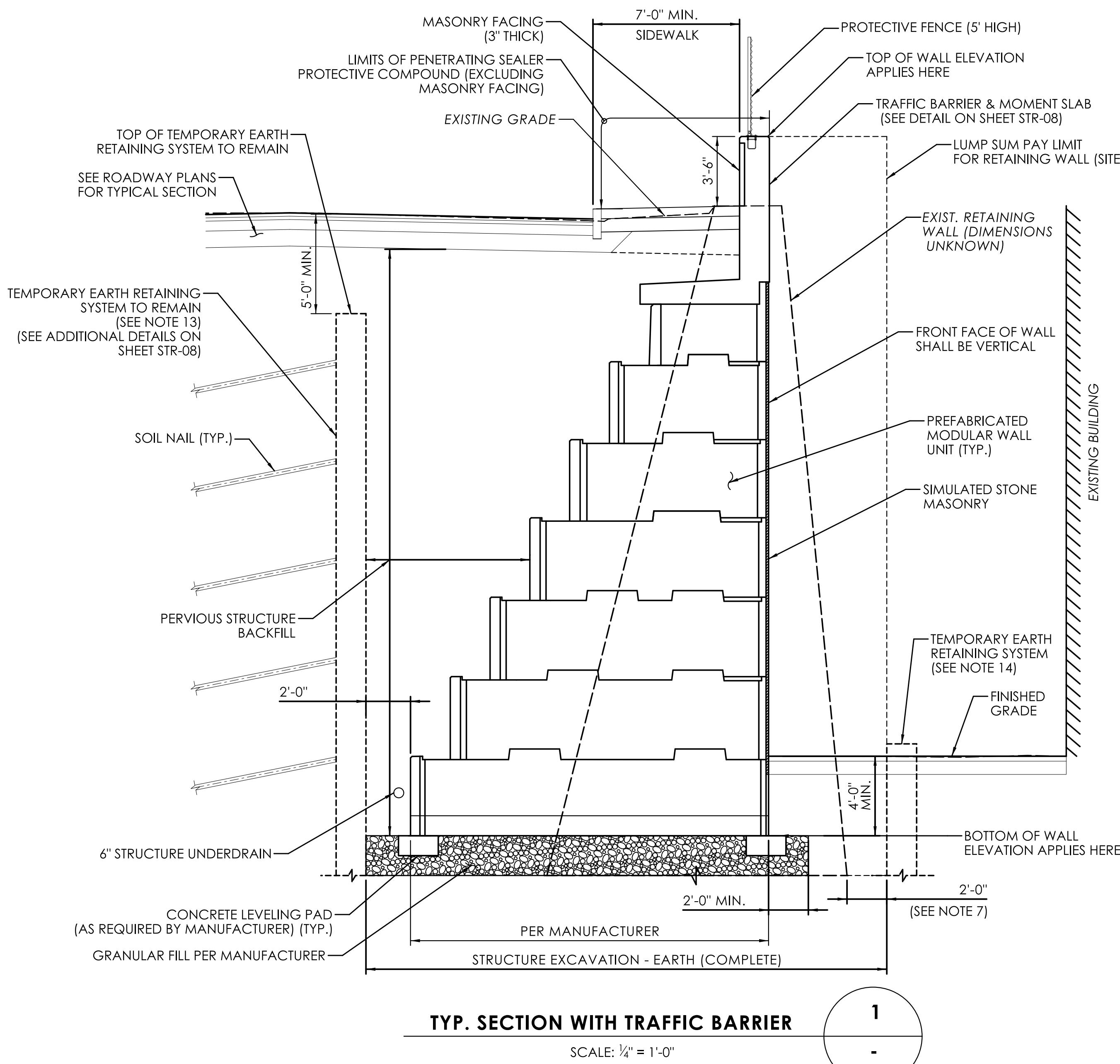
<b>WALL CURVE DATA TABLE</b>		
	CURVE #1	CURVE #2
L	40'-6"	143'-6"
R	30'-0"	3975'-6"
DELTA	266° 35' 34.8"	4° 43' 37.2"

TABLE OF COORDINATES		
WP #	NORTHING	EASTING
1	894906.25	1227762.93
2	894912.95	1227759.56
3	894949.69	1227767.01
4	895039.67	1227878.82
5	895128.21	1227993.01
6	895152.72	1228024.42

## NOTES:

**NOTES.**

- 1. LOCATION OF STEPS, BOTTOM OF TRAFFIC BARRIER, AND BOTTOM OF CONCRETE COPING MAY VARY BASED ON THE MANUFACTURER SELECTED. WORKING POINTS SHOWN ARE TAKEN AT THE BASE OF THE WALL AT FINISHED GRADE.
- 2. PROTECTIVE FENCE (5' HIGH) NOT SHOWN FOR CLARITY. SEE SHEET STR-10 FOR POST LOCATIONS, SPACING, AND DETAILS.
- 3. REMOVAL AND SALVAGE OF THE CONCRETE BLOCK SUPPORT SYSTEM THAT IS CURRENTLY IN PLACE SUPPORTING THE WALL SHALL BE PAID UNDER THE ITEM "REMOVAL OF THE EXISTING MASONRY." THE CONTRACTOR SHALL COORDINATE WITH DOT FOR DELIVERY OF THE SALVAGED MATERIALS. SEE NOTICE TO CONTRACTOR



**TYP. SECTION WITH TRAFFIC BARRIER**

SCALE:  $\frac{1}{4}$ " = 1'-0"

**PREFABRICATED MODULAR WALL NOTES:**

1. THE CONTRACTOR SHALL SELECT, DESIGN, AND CONSTRUCT ONE OF THE FOLLOWING WALL OPTIONS IN ACCORDANCE WITH THE SPECIAL PROVISION "RETAINING WALL (SITE NO. 1)".  
DOUBLEWAL - STANDARD MODULE  
DOUBLEWAL CORPORATION  
7 WEST MAIN STREET  
PLAINVILLE, CT 06062  
GRAVIX DOT PRECAST WALL SYSTEM  
EARTH WALL PRODUCTS  
1349 OLD 41 HIGHWAY NW, SUITE 135  
MARIETTA, GA 30060
2. TEMPORARY EARTH RETAINING SYSTEM INCLUDING THOSE BELOW PAYLIMITS AND ANY TIEBACKS AND BRACING ASSOCIATED WITH SAME SHALL BE INCLUDED ON THE LUMP SUM COST OF THE WALL.
3. DETAILS SHOWN ON THIS SHEET ARE NOT SPECIFIC. THE CONTRACTOR'S DESIGNER SHALL MODIFY TO MEET THE CONDITIONS OF THE SITE.
4. REINFORCING SHALL HAVE 2" COVER EXCEPT WHERE SHOWN OTHERWISE
5. ALL DIMENSIONS ARE SPECIFIED WITH THE APPLICABLE UNITS OF MEASUREMENT.
6. ANY ADDITIONAL PERVERSUS STRUCTURE BACKFILL REQUIRED OUTSIDE THIS LIMIT SHALL ALSO BE INCLUDED IN THE LUMP SUM PRICE OF THE WALL.

7. THE HORIZONTAL LIMITS OF STRUCTURE EXCAVATION SHALL BE 2 FEET FROM THE FRONT FACE OF THE PROPOSED WALL OR 2 FEET FROM THE FRONT FACE OF THE EXISTING WALL, WHICHEVER IS LESS, TO THE FRONT FACE OF THE TEMPORARY EARTH RETAINING SYSTEM.
8. THE COST OF FURNISHING AND INSTALLING THE PERVERSUS STRUCTURE BACKFILL SHALL BE INCLUDED IN THE LUMP SUM COST OF THE ITEM "RETAINING WALL (SITE NO. 1)".
9. THE COST OF FURNISHING AND INSTALLING THE 6" STRUCTURE UNDERDRAIN SHALL BE INCLUDED IN THE LUMP SUM COST OF THE ITEM "RETAINING WALL (SITE NO. 1)." THE OUTLET FOR THE UNDERDRAIN FROM THE FRONT FACE OF THE WALL TO THE MANHOLE SHALL BE PAID UNDER THE ITEM "6" OUTLET FOR UNDERDRAIN".
10. THICKNESS OF GRANULAR FILL AND DIMENSIONS OF CONCRETE LEVELING PADS, IF REQUIRED, SHALL BE PROVIDED BY THE WALL MANUFACTURER AND INCLUDED IN THE COST OF THE ITEM "RETAINING WALL (SITE NO. 1)".
11. THE COST TO REMOVE THE EXISTING WALL AND EXISTING CONCRETE BLOCK SUPPORT SYSTEM SHALL BE INCLUDED IN THE COST OF THE ITEM "REMOVAL OF EXISTING MASONRY STONE FROM THE EXISTING WALL TO BE REMOVED SHALL BE STOCKPILED FOR REUSE IN THE RECONSTRUCTION OF THE EXISTING STONE WALL AT EITHER END OR THE MODULAR BLOCK WALL. THE MATERIALS FROM THE CONCRETE BLOCK SUPPORT SYSTEM SHALL BE SALVAGED IN ACCORDANCE WITH "NOTICE TO CONTRACTOR - SALVAGE".
12. THE COST OF THE TRAFFIC BARRIER SHALL BE INCLUDED IN THE LUMP SUM COST OF "RETAINING WALL (SITE NO. 1)".
13. THE TEMPORARY EARTH RETAINING SYSTEM AT THE BACK OF WALL SHALL BE REMOVED TO A DEPTH OF AT LEAST 5 FEET BELOW FINISHED GRADE. THE REMAINING SYSTEM IS TO BE ABANDONED IN PLACE. (SEE SHEET STR-09)
14. THE TEMPORARY EARTH RETAINING SYSTEM AT THE TOE OF THE WALL SHALL BE REMOVED IN ITS ENTIRETY UPON COMPLETION OF THE WALL.

**GENERAL NOTES**

1. SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 819 (2024) SUPPLEMENTAL SPECIFICATIONS DATED JANUARY 2025, AND SPECIAL PROVISIONS.
2. DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 10TH EDITION, 2024, AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE AND ROADWAY STRUCTURES DESIGN MANUAL (RELEASE 1).
3. MATERIAL STRENGTHS:  
CONCRETE:  
CLASS PCC03340..... $f'_c$  = 3,000 PSI  
CLASS PCC03360..... $f'_c$  = 3,000 PSI  
CLASS PCC04462..... $f'_c$  = 4,000 PSI  
CLASS PRC05060..... $f'_c$  = 5,000 PSI  
THE CONCRETE STRENGTH,  $f'_c$ , USED IN DESIGN OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF 6.01 - CONCRETE FOR STRUCTURES AND M.03 - PORTLAND CEMENT CONCRETE.
4. REINFORCEMENT:  
ASTM A615 GRADE 60..... $f_y$  = 60,000 PSI
5. DIMENSIONS: WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.
6. UTILITIES: THE FOLLOWING UTILITIES ARE LOCATED WITHIN THE PROJECT LIMITS AND SHALL BE PROTECTED DURING CONSTRUCTION:  
- BREEZELINE  
- CROWN CASTLE FIBER, LLC  
- FRONTIER COMMUNICATIONS OF CONNECTICUT  
- EVERSOURCE ENERGY - ELECTRIC  
- EVERSOURCE ENERGY - GAS  
- TOWN OF PUTNAM WATER POLLUTION CONTROL AUTHORITY  
THE CONTRACTOR SHALL COORDINATE ALL WORK RELATED TO UTILITY RELOCATION WITH THE RESPECTIVE UTILITY COMPANIES.
7. MASH TEST LEVEL: THE TRAFFIC BARRIER SHALL MEET THE TL-4 CRITERIA FOR MASH 2016.

**CONCRETE NOTES**

1. THE FOLLOWING PAY ITEMS AND CONCRETE CLASSES ARE REQUIRED FOR CAST-IN-PLACE COMPONENTS:

ITEM	WALL COMPONENTS	PCC CLASS
FOOTING CONCRETE	CAST-IN-PLACE BARRIER WALL FOOTING	PCC03340
BARRIER WALL CONCRETE	CAST-IN-PLACE BARRIER WALL STEM	PCC04462

2. EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1"X1" UNLESS DIMENSIONED OTHERWISE.
3. CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES OF COVER UNLESS DIMENSIONED OTHERWISE.
4. REINFORCEMENT: ALL REINFORCEMENT SHALL BE GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS. THE COST OF FURNISHING AND PLACING THIS REINFORCEMENT SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS - GALVANIZED".
5. PREFORMED EXPANSION JOINT FILLER: THE COST OF FURNISHING AND INSTALLING PREFORMED EXPANSION JOINT FILLER IS PAID FOR AS "1/2" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES."
6. CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

REV.	DATE	REVISION DESCRIPTION

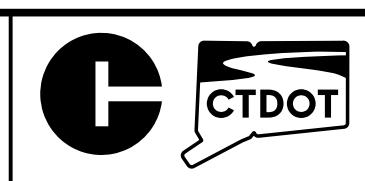
SIGNATURE BLOCK:  
**SLR**

99 REALTY DRIVE  
CINCINNATI, OH 45410  
203.271.1773  
SURCONSULTING.COM



DESIGNER/DRAFTER: L. BUCHELI

CHECKED BY: S. PLUDE



CONNECTICUT  
DEPARTMENT OF  
TRANSPORTATION

PROJECT TITLE:

REPLACEMENT OF RETAINING WALL ALONG ROUTE 44

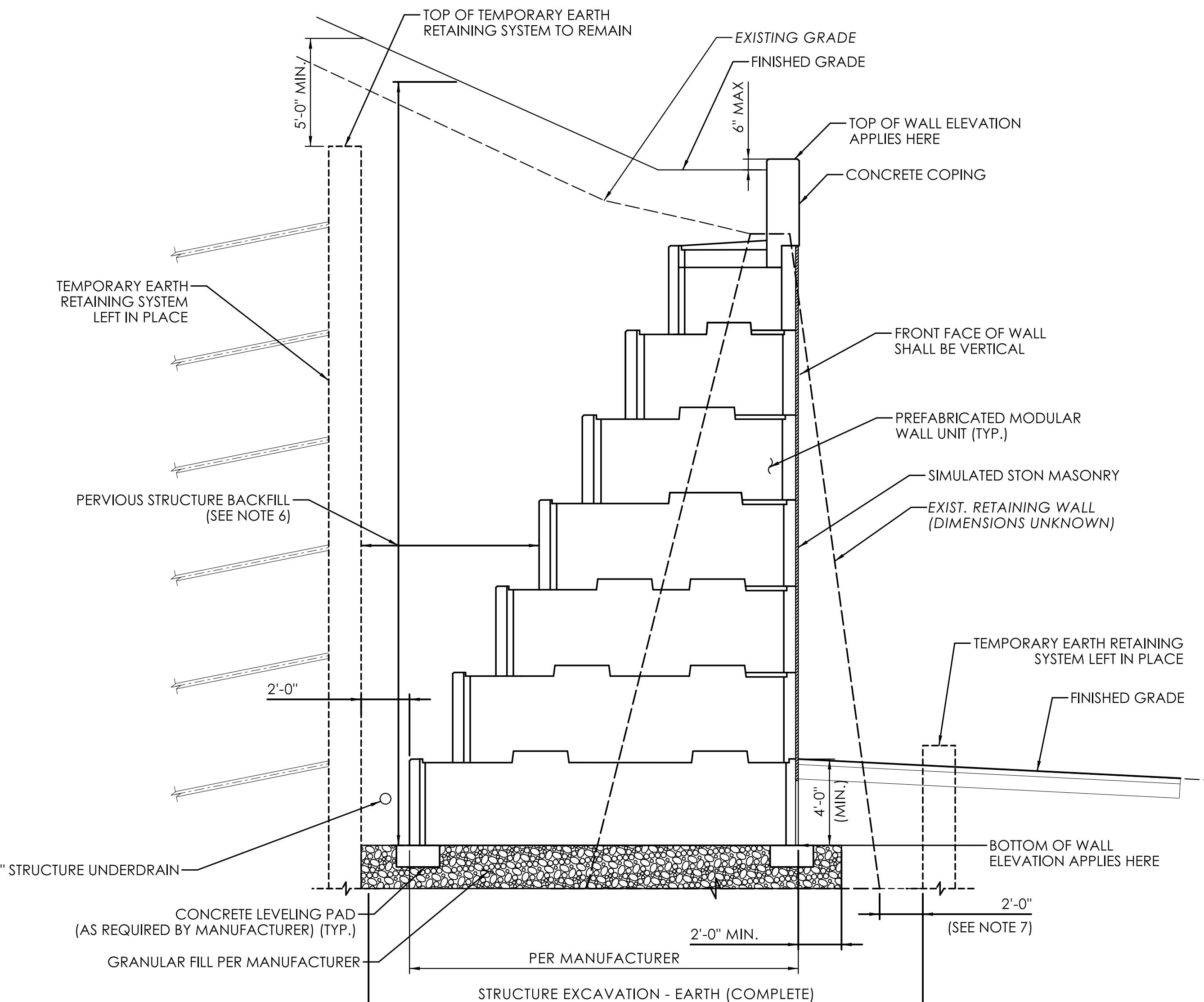
TOWN(S):

PUTNAM

DRAWING TITLE:  
**RETAINING WALL 101 -  
NOTES & TYPICAL  
SECTION**

PROJECT NO.:  
**0115-0122**

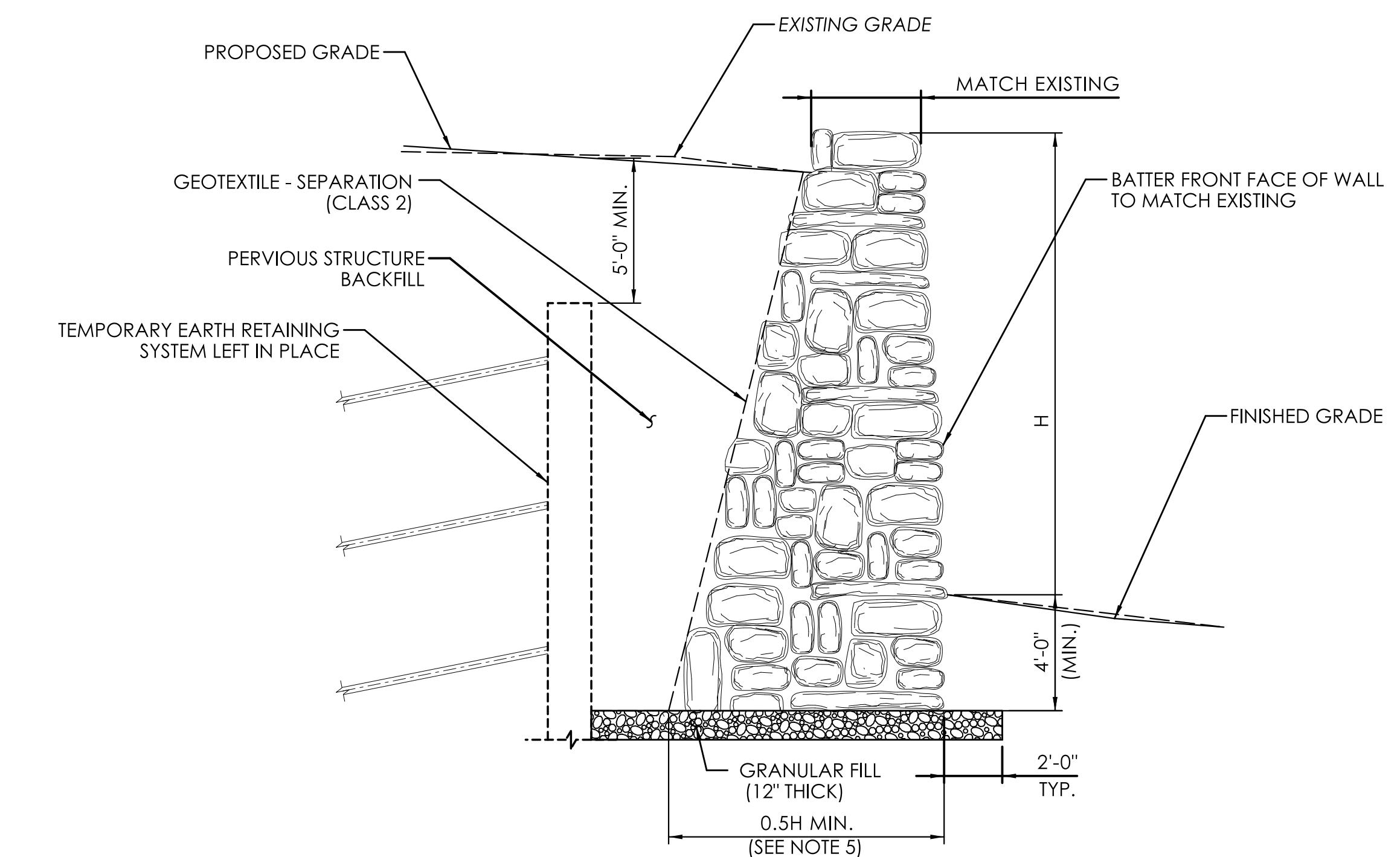
DRAWING NO.:  
**STR-06**  
SHEET NO.:  
**04.07**



**TYP. SECTION WITH COPING**

SCALE:  $\frac{1}{4}$ " = 1'-0"

2  
-



**REBUILD STONE WALL TYPICAL SECTION**

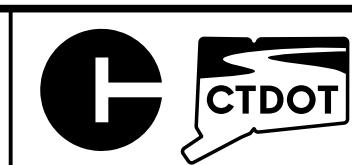
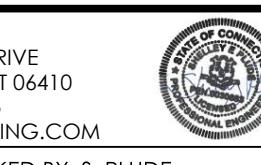
SCALE:  $\frac{1}{4}$ " = 1'-0"

**REBUILD STONE WALL NOTES:**

1. CONTRACTOR SHALL REMOVE EXISTING WALLS TO THE LIMITS SHOWN ON THE PLANS. THE CONTRACTOR SHALL STOCKPILE SUFFICIENT STONE FROM THE REMOVAL OF THE WALL TO BE REUSED IN THE PORTIONS OF THE WALLS TO BE REBUILT. THIS WORK SHALL BE PAID FOR UNDER THE ITEM "REMOVAL OF EXISTING MASONRY." EXCAVATION FOR THE REMOVAL OF THE WALL SHALL BE INCLUDED IN THE COST OF THE ITEM "RETAINING WALL (SITE NO. 1)".
2. METHODS AND MATERIALS USED IN RECONSTRUCTION OF THE STONE WALLS SHALL MATCH THE EXISTING WALLS TO REMAIN AS CLOSELY AS POSSIBLE (I.E. ANY REPLACEMENT STONE REQUIRED SHOULD BE OF SIMILAR TYPE, SIZE, AND COLOR TO THE ORIGINAL).
3. FOR THE RECONSTRUCTION OF THE STONE MASONRY WALL SECTIONS, THE COST OF THE PERVERSUS STRUCTURE BACKFILL, GEOTEXTILE - SEPARATION (CLASS 2), AND GRANULAR FILL SHALL BE PAID UNDER THEIR RESPECTIVE ITEMS.
4. RECONSTRUCTION OF THE STONE WALL WITH STONE TAKEN FROM THE REMOVAL OF THE EXISTING WALL SHALL BE PAID UNDER THE ITEM "DRY RUBBLE MASONRY".
5. IF EXISTING WALL GEOMETRY (I.E. BACK BATTER, BASE WIDTH) EXCEED THE DIMENSIONS SHOWN ON THE DETAIL, THE CONTRACTOR SHALL MATCH EXISTING DIMENSIONS.

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:  
**SLR**  
99 REALTY DRIVE  
QUESHIKE, CT 06410  
203.271.1773  
SLRCONSULTING.COM  
DESIGNER/DRAFTER: L. BUCHELI  
CHECKED BY: S. PLUDE



CONNECTICUT  
DEPARTMENT OF  
TRANSPORTATION

PROJECT TITLE:

REPLACEMENT OF RETAINING WALL ALONG ROUTE 44

TOWN(S):

PUTNAM

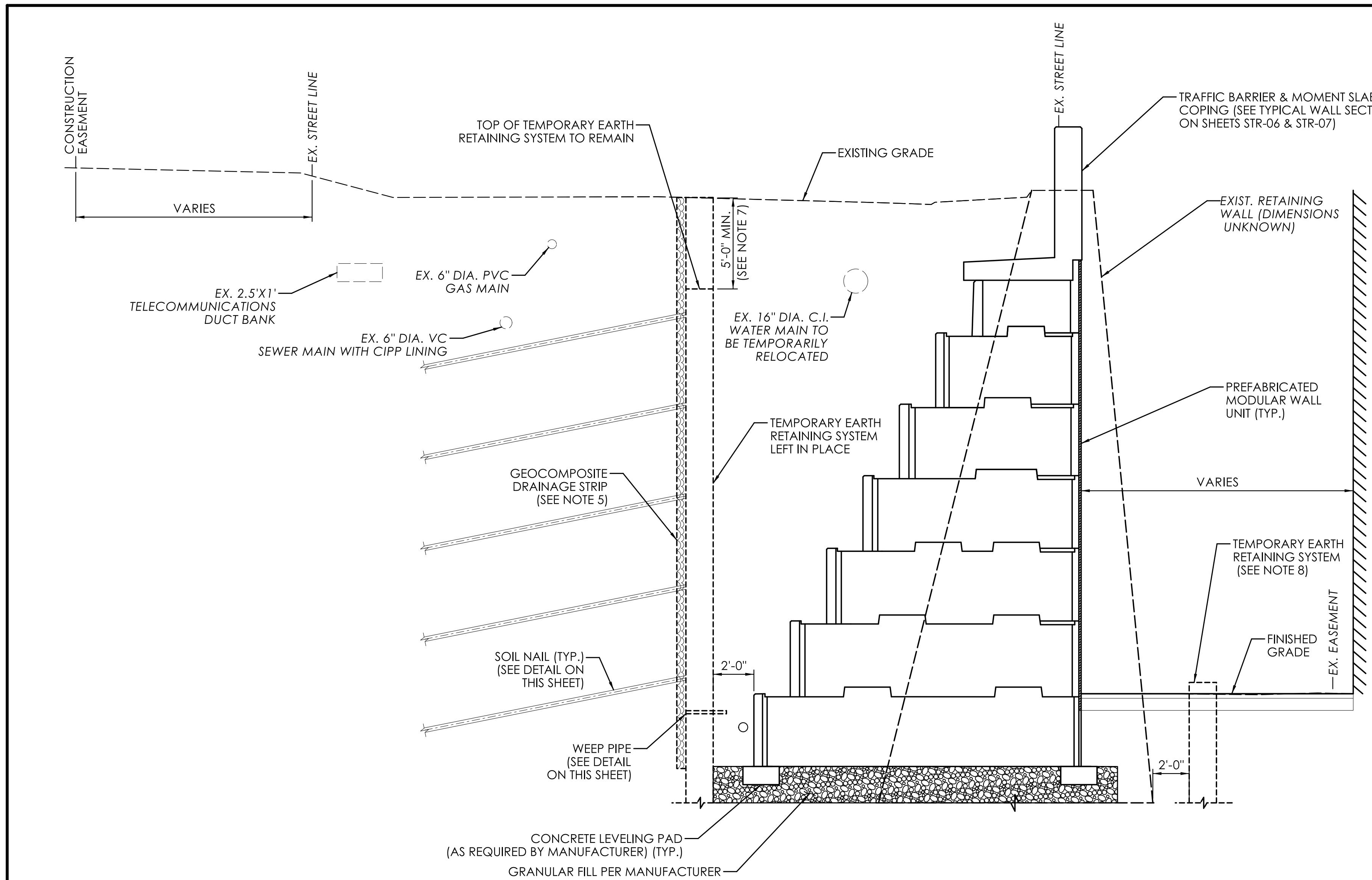
DRAWING TITLE:

RETAINING WALL 101 -  
TYPICAL SECTIONS

PROJECT NO.:  
**0115-0122**

DRAWING NO.:  
**STR-07**  
SHEET NO.:  
04.08



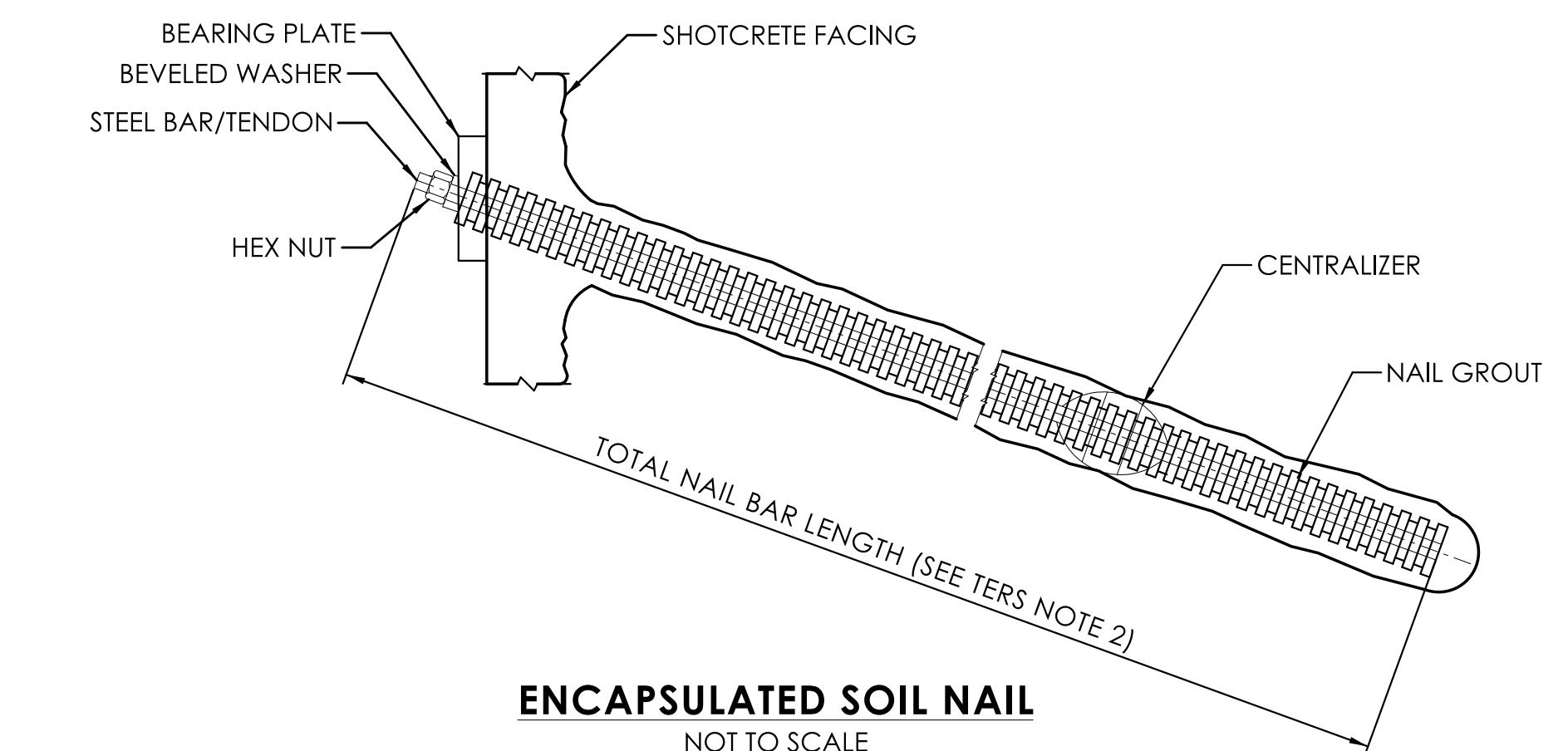


**TEMPORARY EARTH RETAINING SYSTEM TYPICAL SECTION**

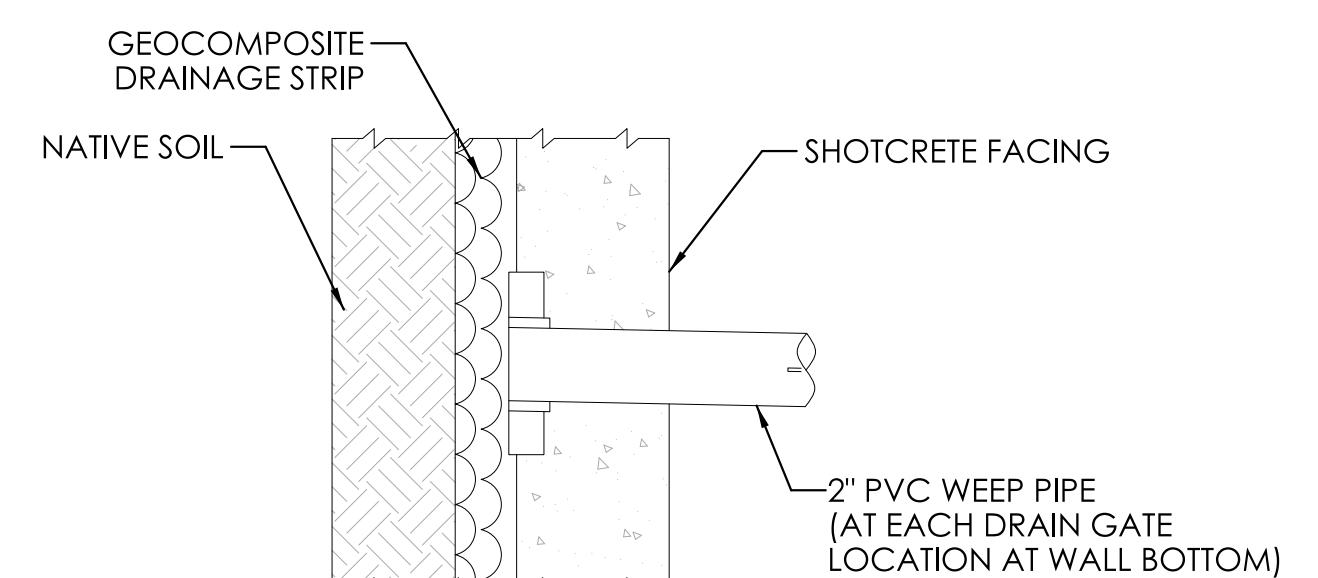
SCALE:  $\frac{1}{4}$ " = 1'-0"

**TEMPORARY EARTH RETAINING SYSTEM (TERS) NOTES:**

1. A SOIL NAIL WALL (SNW) IS RECOMMENDED TO BE USED FOR THE TERS BEHIND THE PROPOSED WALL. THE CONTRACTOR MAY PROPOSE AN ALTERNATE TERS TYPE IN ACCORDANCE WITH FHWA/CDOT GUIDELINES.
2. THE CONTRACTOR SHALL DESIGN AND SUBMIT TO THE ENGINEER FOR APPROVAL OF THE SNW DRILLING METHOD, GROUTING METHOD, FINAL SOIL NAIL LENGTH, SOIL NAIL DIAMETER, AND STRENGTH/SIZE OF THE STRESSING TENDON/BAR. THE MAXIMUM SOIL NAIL LENGTH SHALL NOT EXCEED PROJECT EASEMENT LIMITS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING STABLE DRILL HOLES OF APPROVED DIAMETER WITHOUT HOLE CAVING BEFORE OR DURING NAIL INSTALLATION AND GROUTING.
4. THE NAIL LAYOUT SHALL BE DETERMINED BY THE CONTRACTOR, BUT SHALL BE UNIFORMLY SPACED TO THE EXTENT POSSIBLE. SOIL NAILS OR TIE BACKS SHALL BE DESIGNED TO STAY WITHIN THE CONSTRUCTION EASEMENTS SHOWN ON THE PLANS.
5. TERS DESIGN SHALL INCLUDE A MEANS FOR RELIEVING HYDROSTATIC PRESSURE IN THE BACKFILL. TYPE, SIZE, AND SPACING SHALL BE INCLUDED IN THE DESIGN FOR THE TERS.
6. THE TEMPORARY EARTH RETAINING SYSTEM SHALL BE REMOVED TO A DEPTH OF AT LEAST 5 FEET BELOW FINISHED GRADE. THE REMAINING SYSTEM IS TO BE ABANDONED IN PLACE.
7. WHERE SOIL NAILS ARE ENCOUNTERED WITHIN THE UPPER 5 FEET OF THE WALL TO BE REMOVED, THE CONTRACTOR SHALL RELEASE THE TENSION ON THE SOIL NAIL PRIOR TO DEMOLISHING THE FACING. THE SOIL NAIL MAY THEN BE ABANDONED IN PLACE.
8. THE TEMPORARY EARTH RETAINING SYSTEM AT THE TOE OF THE WALL SHALL BE REMOVED IN ITS ENTIRETY UPON COMPLETION OF THE WALL.
9. THE COST TO DESIGN AND CONSTRUCT THE TEMPORARY EARTH RETAINING SYSTEM SHALL BE INCLUDED IN THE LUMP SUM COST OF THE ITEM "RETAINING WALL (SITE NO. 1)".
10. THE COST TO PARTIALLY DEMOLISH AND ABANDON IN PLACE THE TERS BEHIND THE PROPOSED WALL AND THE COST TO REMOVE THE TERS AT THE TOE OF THE PROPOSED WALL SHALL BE INCLUDED IN THE LUMP SUM COST OF THE ITEM "RETAINING WALL (SITE NO. 1)".
11. THE TERA BEHIND THE PROPOSED WALL SHALL BE SUBJECT TO "BUY AMERICA" REQUIREMENTS AS IT IS TO BE ABANDONED IN PLACE.



**ENCAPSULATED SOIL NAIL**  
NOT TO SCALE



**2" PVC WEPP PIPE DETAIL**  
NOT TO SCALE

REV.	DATE	REVISION DESCRIPTION



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LAST SAVED BY: joyce.kabumba FILE NAME: W:\CADDesign\CTDOT\_Projects\0115-0122\Struct\_Bridge\MSla\_Design\\$B\_C8\_0155-0122\_RetainingWall101.dgn

PLOTTED DATE: 12/2/2025



CONNECTICUT  
DEPARTMENT OF  
TRANSPORTATION

PROJECT TITLE:

REPLACEMENT OF RETAINING WALL ALONG ROUTE 44

TOWN(S):

PUTNAM

DRAWING TITLE:

RETAINING WALL 101 -  
TERS DETAILS

PROJECT NO.:

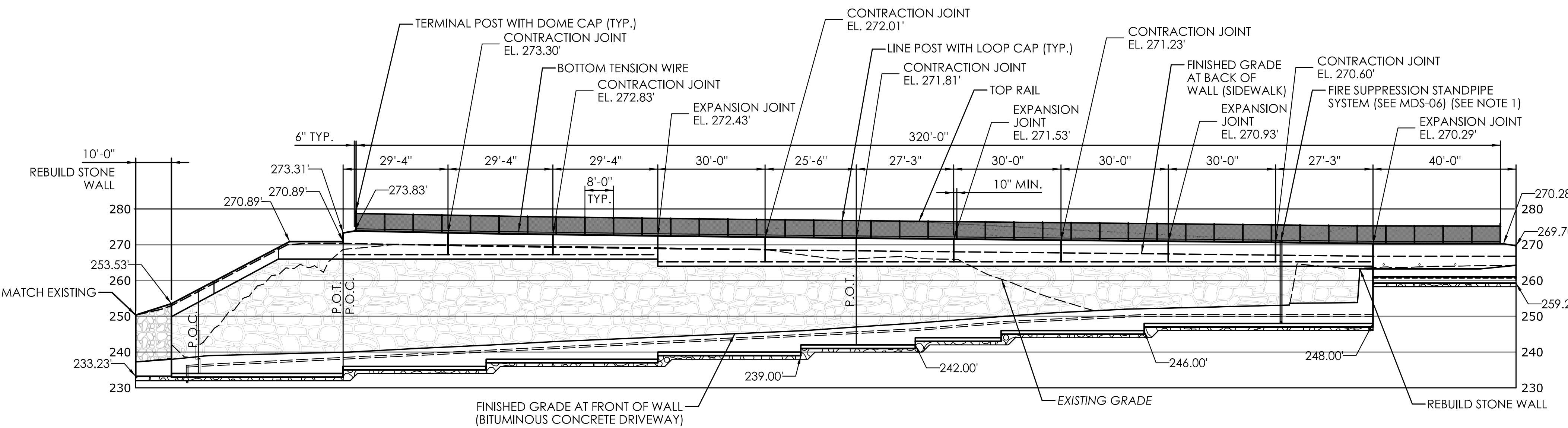
0115-0122

DRAWING NO.:

STR-09

SHEET NO.:

04.10

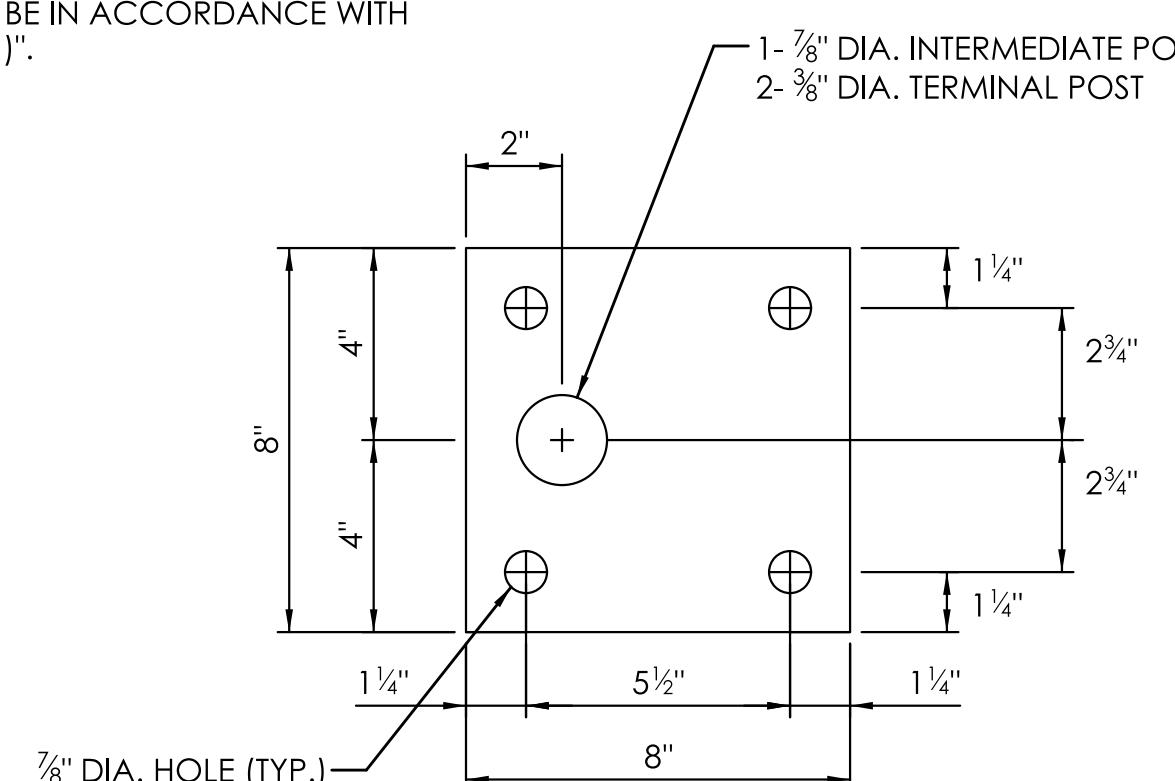


**RETAINING WALL 101 - TRAFFIC BARRIER & PROTECTIVE FENCE ELEVATION**

**NOTES:**

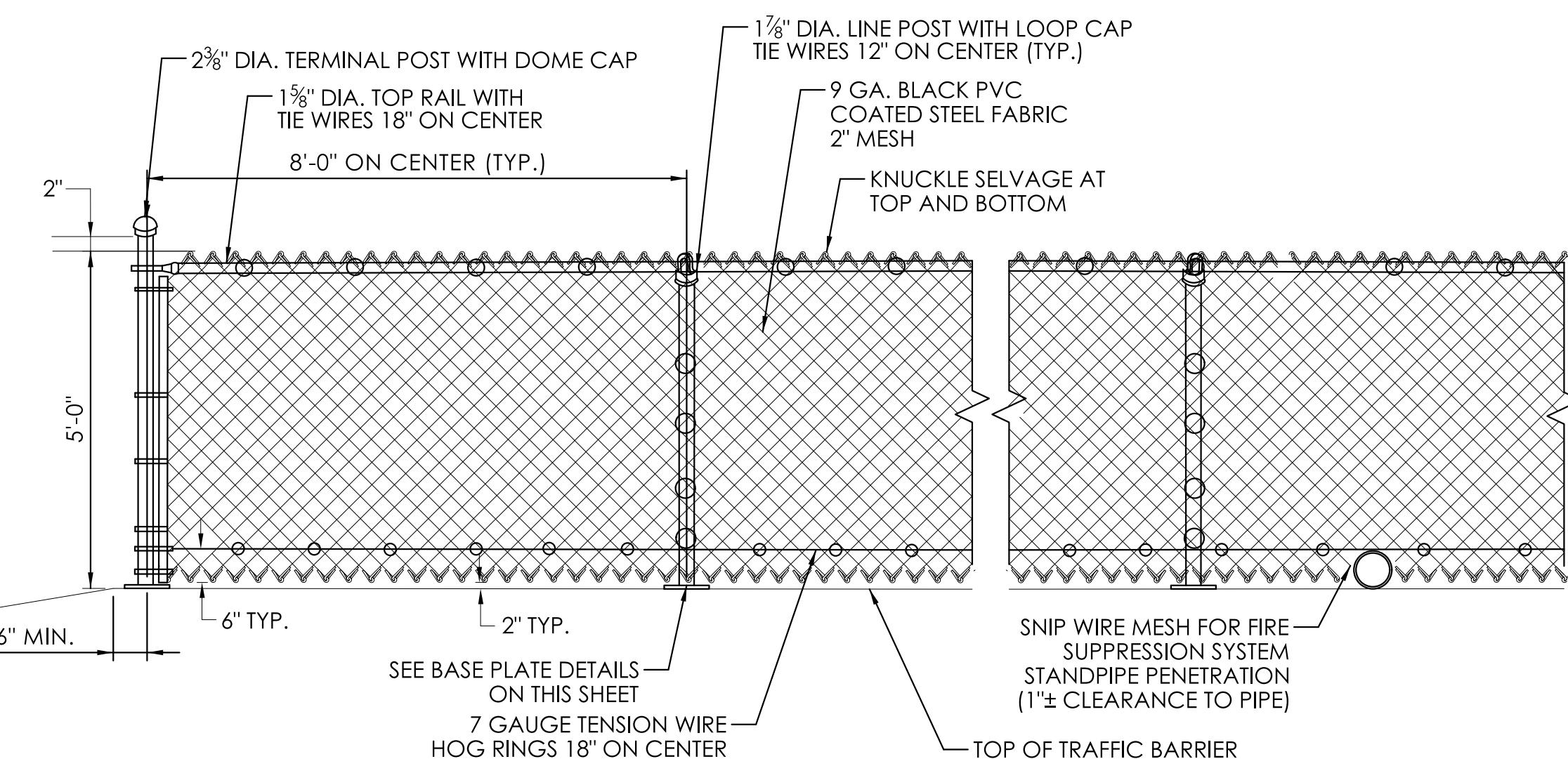
1. WHERE FIRE SUPPRESSION STANDPIPE SYSTEM PASSES OVER THE TOP OF THE PARAPET, THE WIRE MESH SHALL BE CLIPPED TO ALLOW A MINIMUM OF 1-INCH GAP ON ALL SIDES OF THE STANDPIPE.
2. THE JOINT SPACING SHOWN IS BASED ON A CAST-IN-PLACE TRAFFIC BARRIER. IF A PRECAST BARRIER IS SELECTED, THE JOINT SPACING SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISION FOR "RETAINING WALL (SITE NO. 1)".

SCALE: 1" = 20'-0"



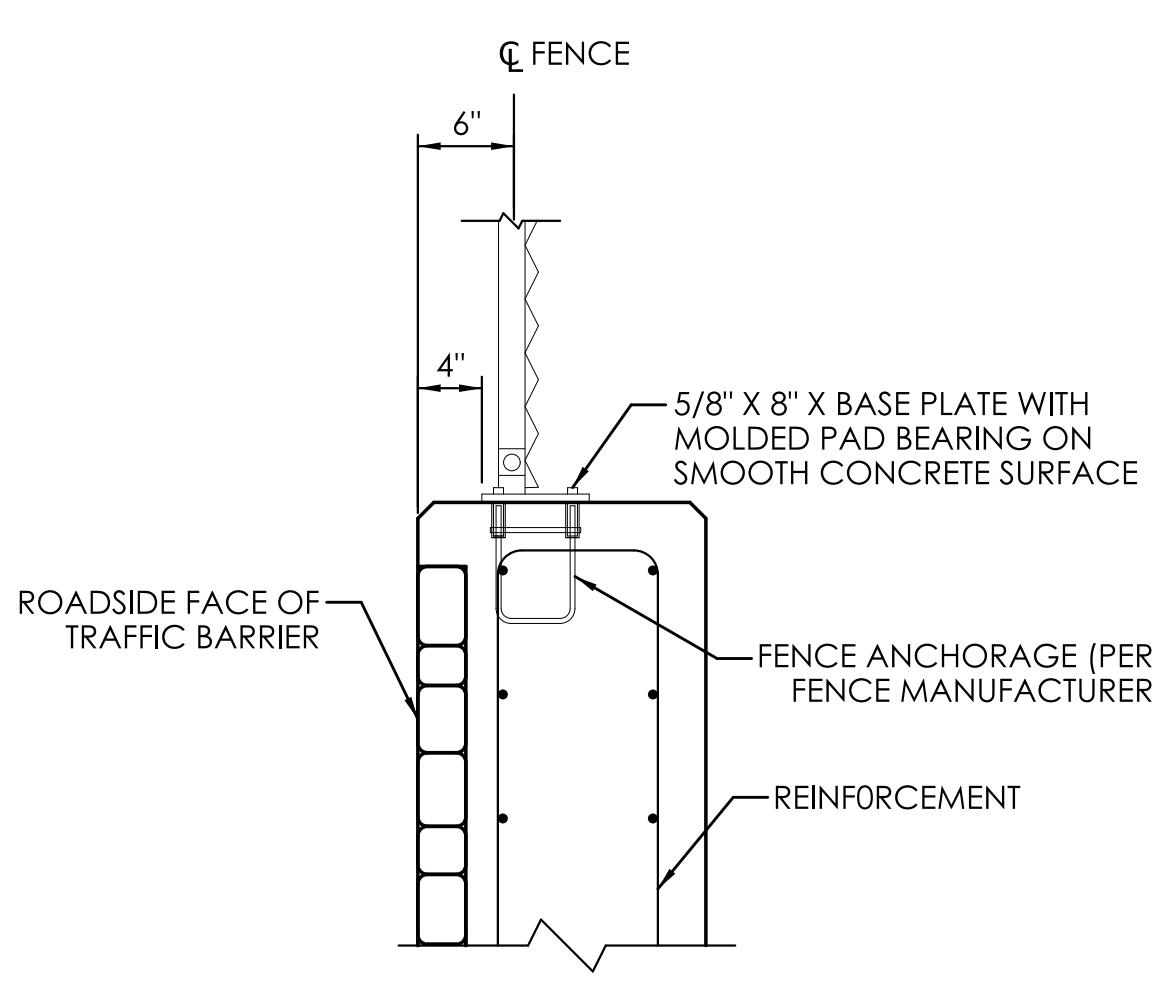
**BASE PLATE**

SCALE: 3/4" = 1'-0"



**PROTECTIVE FENCE (5' HIGH) DETAIL**

SCALE: 1/2" = 1'-0"



**SECTION A-A**

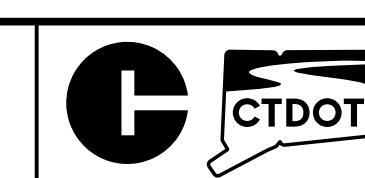
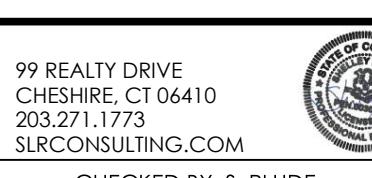
SCALE: 1" = 1'-0"

**TYPICAL FENCE ANCHORAGE SPACING / ORIENTATION**

SCALE: 3/4" = 1'-0"

**NOTE**  
TRAFFIC REINFORCING MAY REQUIRE  
MINOR ADJUSTMENTS TO ACCOMODATE  
FENCE ANCHORAGE

REV.	DATE	REVISION DESCRIPTION



PROJECT TITLE:

REPLACEMENT OF RETAINING WALL ALONG ROUTE 44

TOWN(S):

PUTNAM

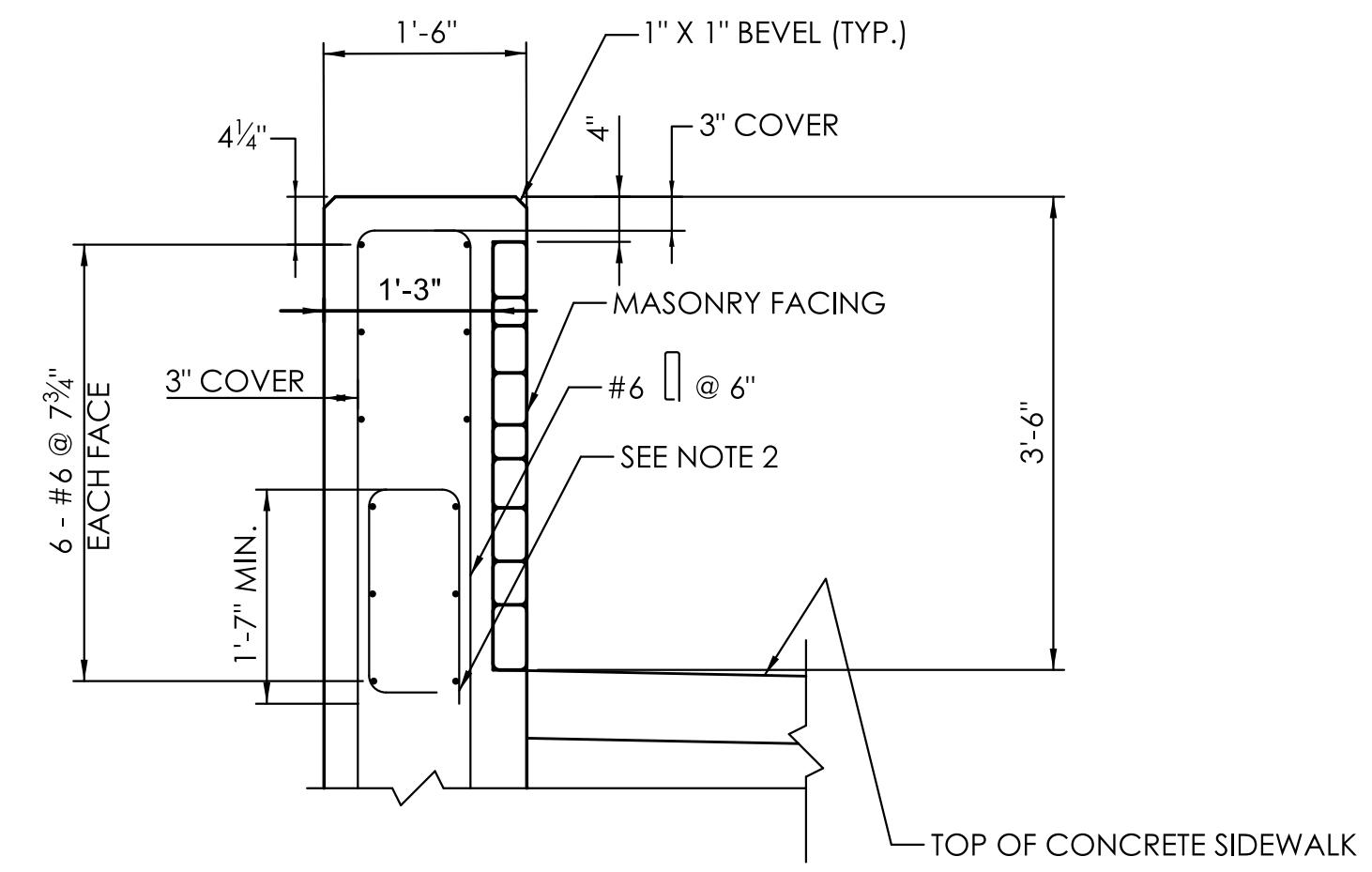
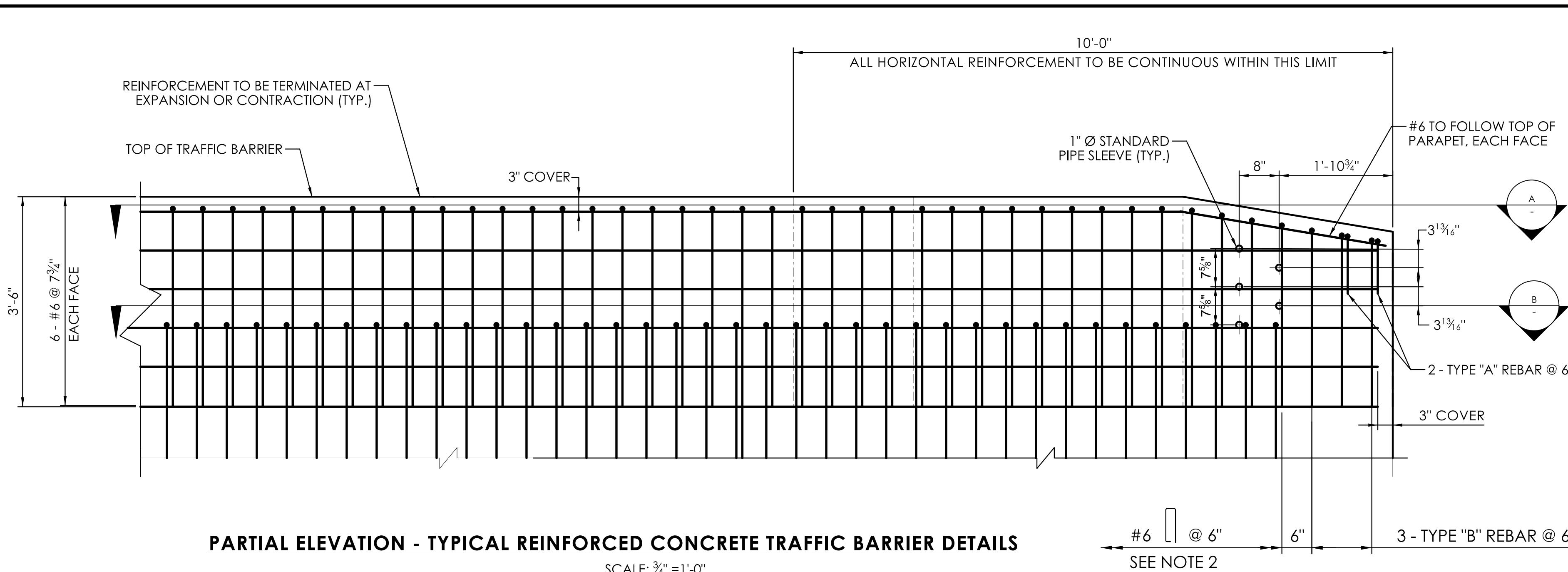
DRAWING TITLE:

**RETAINING WALL 101 -  
PROTECTIVE FENCE  
ELEVATION & DETAILS**

PROJECT NO.:  
**0115-0122**

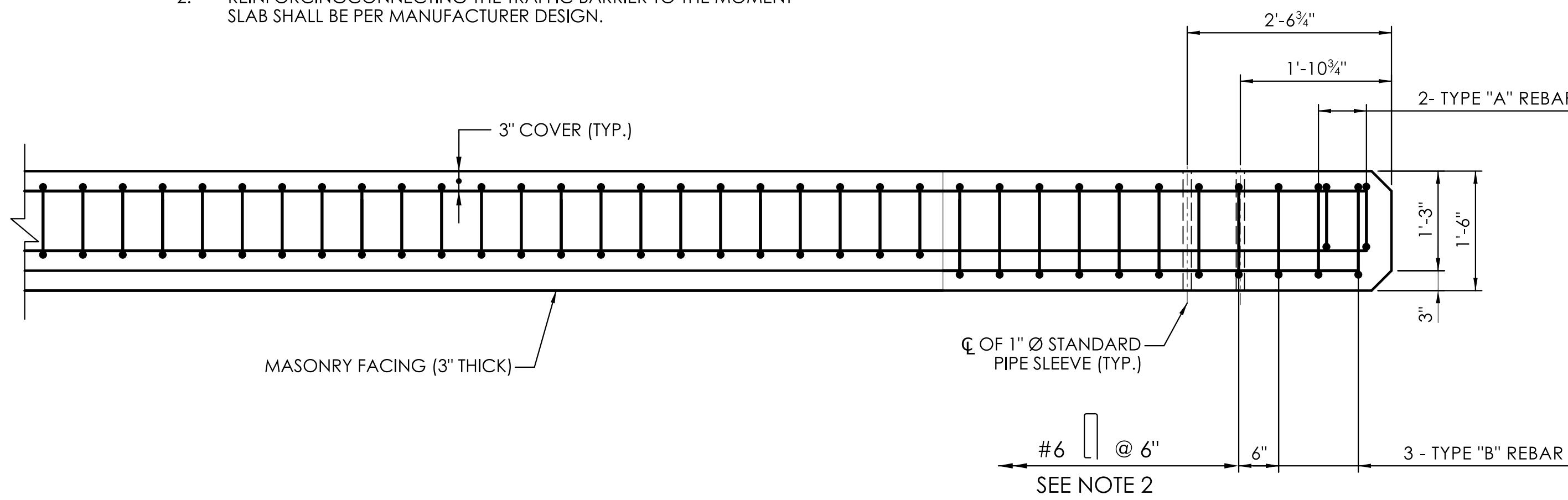
DRAWING NO.:  
**STR-10**  
SHEET NO.:  
**04.11**





#### NOTES

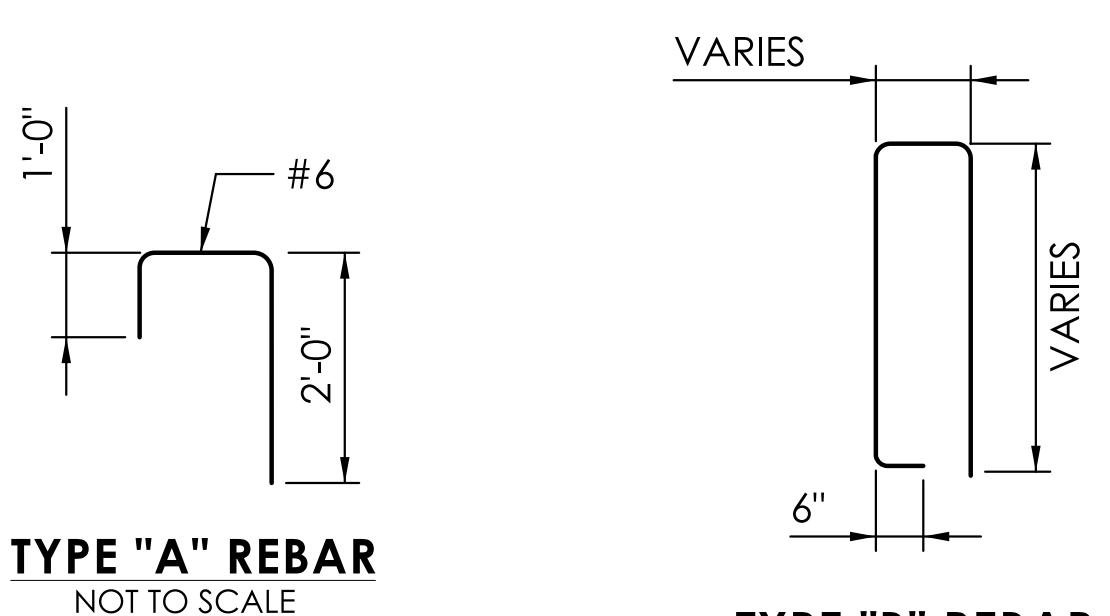
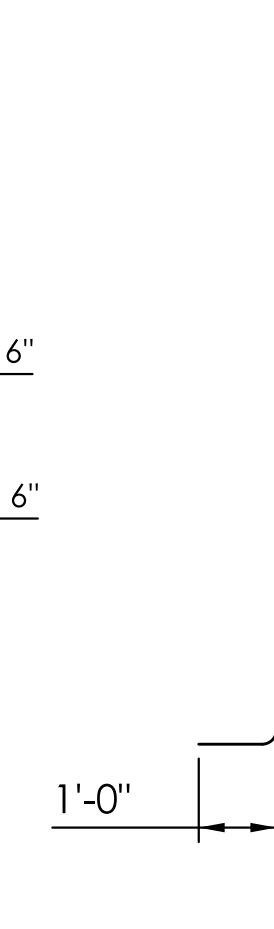
1. THE TRAFFIC BARRIER SHALL BE DETAILED AS SHOWN ON THE PLANS ABOVE FINISHED GRADE. LOCATIONS OF CONTRACTION AND EXPANSION JOINTS MAY VARY IF THE BARRIER IS PRECAST. SEE SPECIAL PROVISION FOR "RETAINING WALL (SITE NO. 1)".
2. REINFORCING CONNECTING THE TRAFFIC BARRIER TO THE MOMENT SLAB SHALL BE PER MANUFACTURER DESIGN.



#### REINFORCEMENT SPLICE NOTES

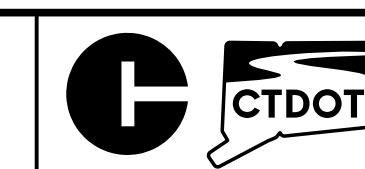
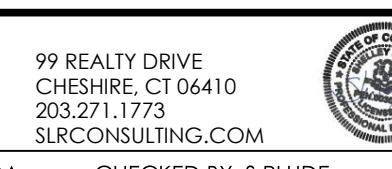
1. THE SPLICE LENGTH FOR THE REINFORCEMENT IN THE PARAPETS SHALL BE AS FOLLOWS UNLESS DIMENSIONED OTHERWISE:
 

BAR SIZE	SPLICE LENGTH
#6	2'-6"
2. THE SPLICES SHALL BE ALTERNATED SO THAT 50% OR LESS OF THE LONGITUDINAL BARS ARE SPLICED AT THE SAME LOCATION.



REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:  
 SLR  
 99 REALTY DRIVE  
 OXFORD, CT 06410  
 203.271.1773  
 SURCONSULTING.COM  
 DESIGNER/DRAFTER: J.KABUMBA  
 CHECKED BY: S.PLUME



CONNECTICUT  
 DEPARTMENT OF  
 TRANSPORTATION

PROJECT TITLE:

REPLACEMENT OF RETAINING WALL ALONG ROUTE 44

TOWN(S):

PUTNAM

DRAWING TITLE:

TRAFFIC BARRIER AT  
 SIDEWALK - DETAILS

PROJECT NO.:  
**0115-0122**

DRAWING NO.:  
**STR-12**  
 SHEET NO.:  
**04.13**

