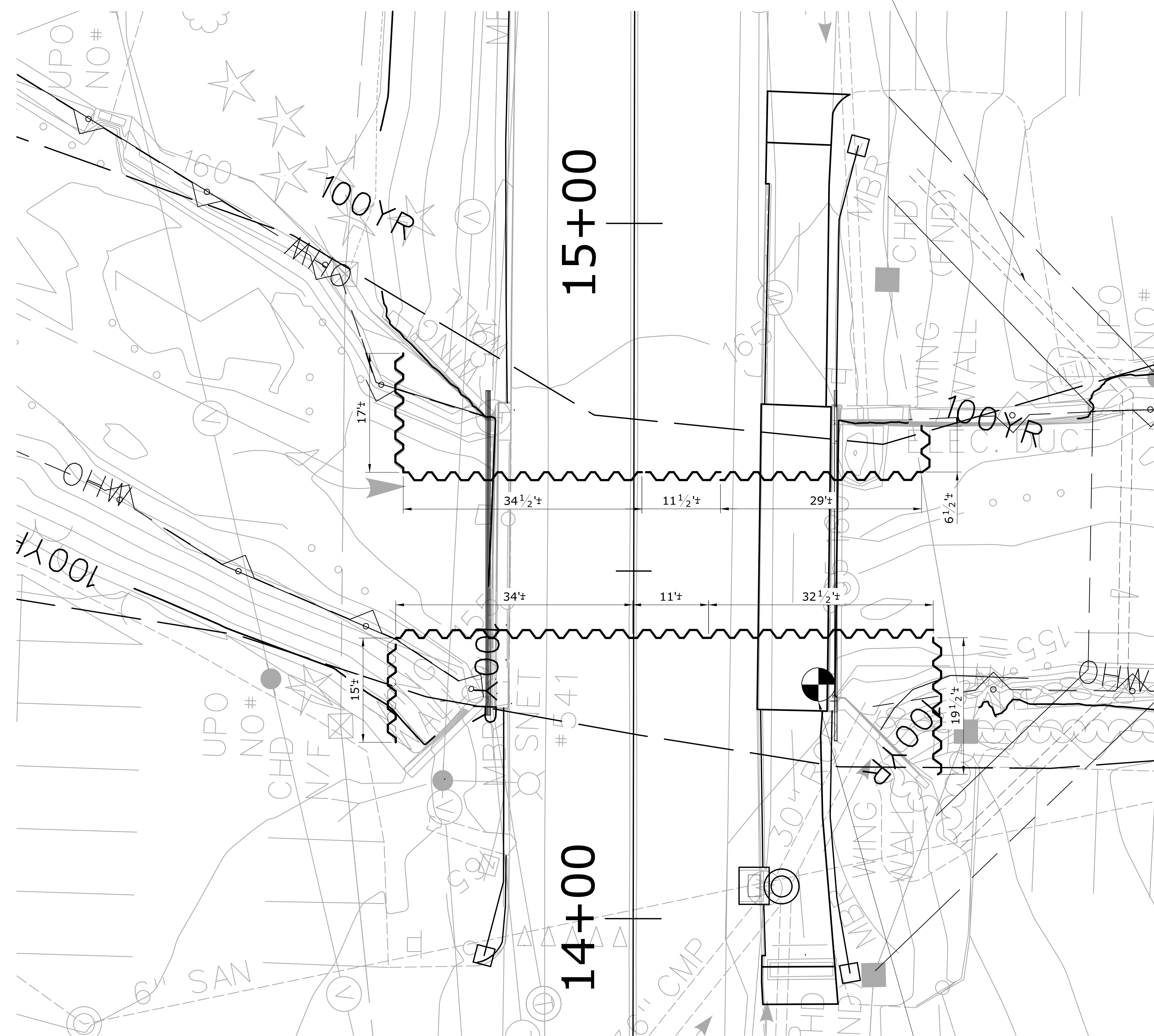
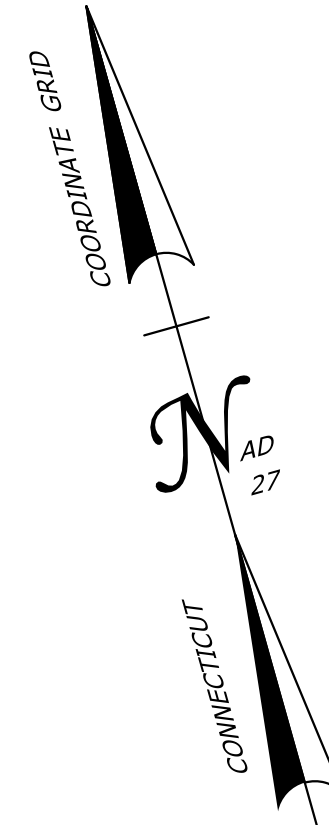


CALCULATED STEEL SHEET PILING PROPERTIES AND ELEVATIONS

	Fy (KSI)	SECTION	SECTION MODULUS IN ² /FT	LENGTH (FT)	TOP ELEVATION	TIP ELEVATION
ABUT 1	65	NZ42	90.8	33.4	153	119.6
ABUT 2	65	NZ42	90.8	33.4	153	119.6



Driller: S. Lukie		Connecticut DOT Boring Report		Hole No.: #1	
Inspector:	Town: Simsbury	Project No.: 128-153	Stat./Offset: 14+30/24 FT Right	Start Date: 4-9-56	Northing: 377098
Engineer:	Route No.: 10	Finish Date: 4-9-56	Bridge No.: 00653	Surface Elevation: 160.6	Easting: 584634
Project Description: Rehabilitation of Bridge No. 00653, Hopmeadow Stree (Route 10) over Hop Brook					

Casing Size/Type: 4-inch		Sampler Type/Size: 3.5-inch		Core Barrel Type:	
Hammer Wt.: Fall: 12	Hammer Wt.: 350	Fall:			
Groundwater Observations: @3 after 2 hours					

Depth (ft)	Sample Type/No	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Soil Description	Material Description and Notes	Elevation (ft)
0						[Misc. Fill]	Flood Sediment over Bituminous Concrete Pavement over Portland Cement Concrete Pavement with medium Boulders	160
5						[Gravelly Sand]		155
10	S-1	29	12				Red f-c SAND and f-c GRAVEL, little silt	150
15	S-2	42	12			[Silty Sand]	Red c-f SAND, some silt, some clay, trace gravel	145
20	S-3	39	12			[Silty Sand]		140
25	S-4	28	12				Red and Gray c-f SAND, some silt	135
30						[Gravelly Sand]		130
35							Red and Gray c-f SAND and f-c GRAVEL, some silt	125
40							END OF BORING 40ft	120
45								115
50								110

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: 40ft	Rock: 0ft	NOTES: Driller's Note: Drive 35' of 4-inch casing. [The number of blows on the sampler were counted per 12-inches instead of per 6-inches.]	Sheet 1 of 1
No. of Soil Samples: 4	No. of Core Runs: 0		SM-001-M REV. 1/02

LEGEND

- PERMANENT STEEL SHEET PILING
- FEMA 100-YR FLOOD (CALCULATED)
- FEMA FLOODWAY
- BORING LOCATION

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

TRANSPORTATION PRINCIPAL ENGINEER

NOTES:

- PERMANENT STEEL SHEET PILING SHALL BE PAID UNDER ITEM #0713040 "PERMANENT STEEL SHEET PILING".
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT THE UTILITIES LOCATED WITHIN THE PROJECT LIMITS.

ADDENDUM NO. 1

10/08/2020 SHEET PILING SIZE AND TYPE REVISED REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 10/8/2021	DESIGNER/DRAFTER: IV CHECKED BY: SAB SCALE: 1" = 10'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION FILENAME: ...S-28 - Permanent Steel Sheet Piling.dgn	SIGNATURE/BLOCK: OFFICE OF ENGINEERING APPROVED BY: <i>Andrew J. Cardullo</i>	PROJECT TITLE: REHABILITATION OF BR. NO. 00653 HOPMEADOW ST. (ROUTE 10) OVER HOP BROOK	TOWN: SIMSBURY PROJECT NO.: 0128-0153 DRAWING NO.: S-28 SHEET NO.: 04.28.A1
	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.				DRAWING TITLE: PERMANENT STEEL SHEET PILING