

PERMIT/CONSTRUCTION: 2025-05-08

Soil Erosion Control Construction Sequence: (all dates are approximate)

- 15 Aug 2025 : Install soil erosion control measures
- 16-19 Apr. 2025 : Grade site & start building construction
- 24-30 Apr. 2025 : Install Storm Sewer
- 1-3 Oct 2025 : Finish Grade Site
- 4-6 Oct 2025 : Install Base
- 7-30 Oct 2025 : Install Asphalt & Concrete, Curing Time
- 12-15 May 2026 : Remove soil erosion control measures & install sod

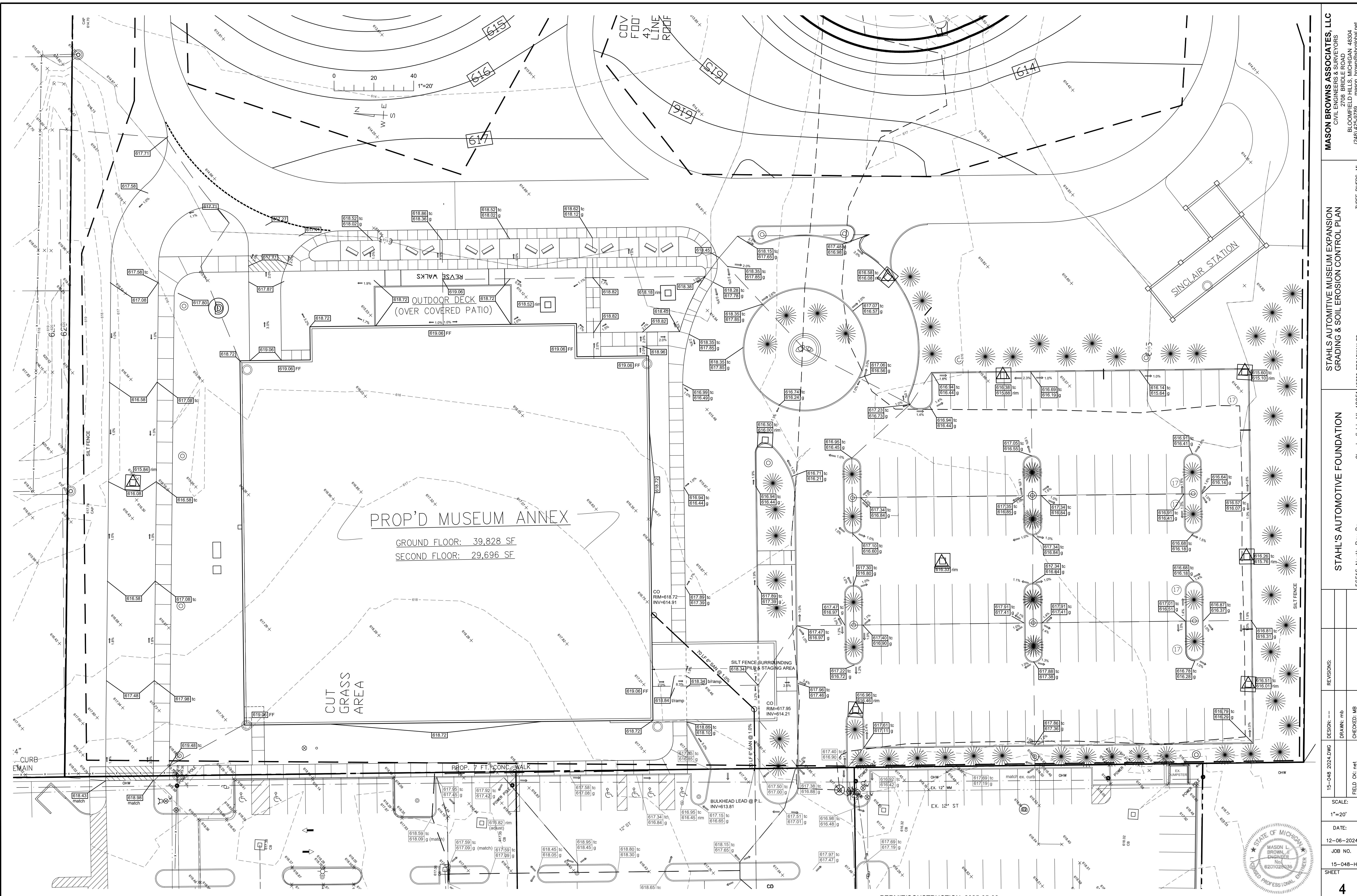
Name(s) and phone number(s) for the person(s) responsible for the maintenance of all temporary soil erosion control measures: Scott Culver 248-930-2312
Name(s) and phone number(s) for the person(s) responsible for the permanent soil erosion control measures: Scott Culver 248-930-2312
Approximate Start date: 04-15-2025
Approximate Completion date: 05-15-2025
Total Acres Disturbed = 3.2 acres

MASON BROWNS ASSOCIATES, LLC
CIVIL ENGINEERS & SURVEYORS
2078 BRIDGE ROAD
BLOOMFIELD HILLS, MICHIGAN 48304
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STAHL'S AUTOMOTIVE FOUNDATION
STORM SEWER AND TRACK ELEVATIONS PLAN
FROM DETENTION SYSTEM TO OUTLET
THREE RIVERS, MI

15-048 2024-DWG DESIGN: -- DRAWN: mb CHECKED: MB
FIELD OK: net
REVISIONS:
SCALE: 1"=40'
DATE: 12-06-2024
JOB NO.: 15-048-H
SHEET 3





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STORM

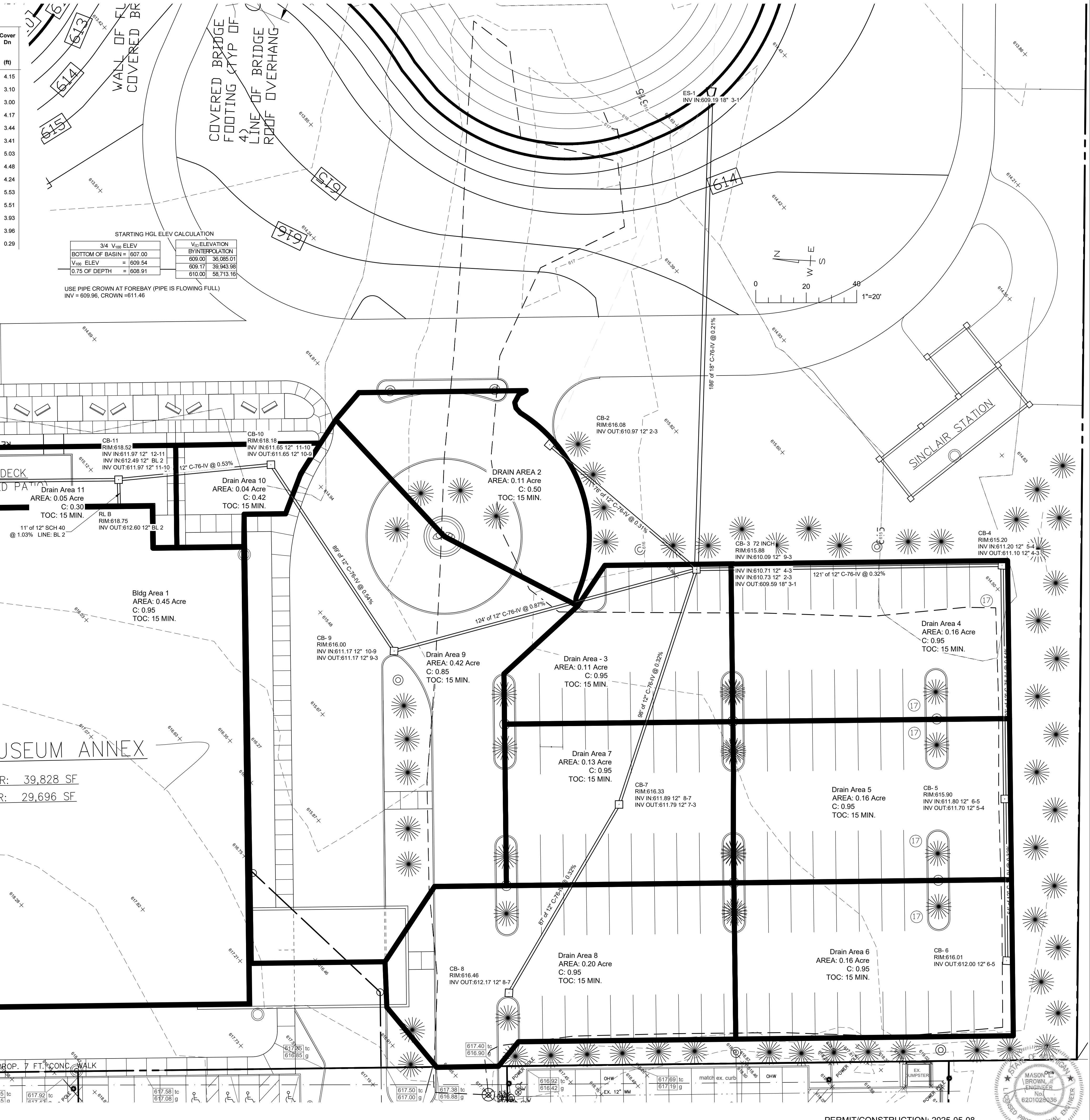
Line No.	Line ID	Inlet ID	Dmg Area	Runoff Coeff	Incr CxA	Total Cx A	Tc	i Sys	Total Runoff	Capac Full	Line Size	Line Length	Line Slope	Vel Ave	Pipe Travel	HGL Up	HGL Dn	Invert Up	Invert Dn	Gnd/Bnd/Rim E/Up/Down	Cover Up	Cover Dn	
			(ac)	(C)		(min)	(in/hr)	(cfs)	(ft)	(%)	(ft/s)	(min)	(ft)	(ft/s)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
14	2-3	CB-2	0.11	0.50	0.06	0.06	15.0	2.40	0.13	2.00	12	76	0.31	0.17	7.57	612.00	612.00	610.73	610.97	616.03/5.88	4.11	4.15	
13	6-5	CB-6	0.16	0.95	0.15	0.15	15.0	2.40	0.36	2.01	12	64	0.32	0.49	2.35	612.80	612.80	611.01	611.80	615.90/5.20	3.10	3.00	
12	5-4	CB-5	0.16	0.95	0.15	0.30	17.4	2.23	0.67	2.61	12	93	0.54	1.20	1.70	612.24	612.20	611.70	611.20	615.20/5.20	3.20	3.00	
11	4-3	CB-4	0.16	0.95	0.15	0.45	19.1	2.12	0.95	2.01	12	121	0.32	1.22	1.52	612.08	612.00	611.10	610.71	615.20/5.88	3.10	4.17	
10	8-7	CB-8	0.20	0.95	0.19	0.19	15.0	2.40	0.45	2.01	12	87	0.32	0.64	2.54	612.91	612.89	612.17	611.89	615.48/6.33	3.29	3.44	
9	7-3	CB-7	0.13	0.95	0.13	0.31	17.5	2.21	0.89	2.02	12	98	0.32	1.01	1.75	612.51	612.47	611.79	611.47	615.30/5.88	3.54	3.41	
8	BL 2	RL B	0.45	0.95	0.43	0.43	15.0	2.40	1.03	3.62	12	11	1.03	1.31	0.14	614.65	614.64	612.80	612.49	615.28/8.52	5.15	5.03	
7	13-12	CB-13	0.62	0.50	0.31	0.31	15.0	2.40	0.74	2.01	12	96	0.32	0.95	1.72	615.12	615.08	612.83	612.52	615.30/8.00	2.01	4.48	
6	BL 1	RL A	0.45	0.95	0.43	0.43	15.0	2.40	1.03	3.57	12	30	1.01	1.31	0.38	615.10	615.08	613.06	612.76	614.26/8.00	0.23	4.24	
5	12-11	MH 12	0.00	0.00	0.00	0.00	16.7	2.27	1.67	2.02	12	165	0.32	2.13	1.25	615.01	614.64	612.52	611.99	616.00/8.52	4.48	5.53	
4	11-10	CB-11	0.05	0.30	0.01	1.18	18.0	2.18	2.57	2.59	12	89	0.68	3.29	0.43	613.85	613.38	611.67	610.99	615.28/8.18	5.53	5.51	
3	10-9	CB-10	0.04	0.42	0.06	1.19	18.3	2.16	2.59	2.93	12	89	0.68	3.29	0.43	613.85	613.38	611.67	610.97	615.18/6.00	5.51	3.93	
2	9-2	CB-9	0.42	0.85	0.36	1.55	18.7	2.14	3.31	3.32	12	124	0.87	4.24	0.48	612.97	612.00	610.92	610.37	609.96	615.00/5.88	3.00	3.96
1	3-1	CB-3	0.11	0.95	0.10	2.47	22.6	1.92	4.76	4.84	18	192	0.21	2.70	1.07	611.83	611.46	610.37	609.96	615.00/1.75	4.01	0.29	

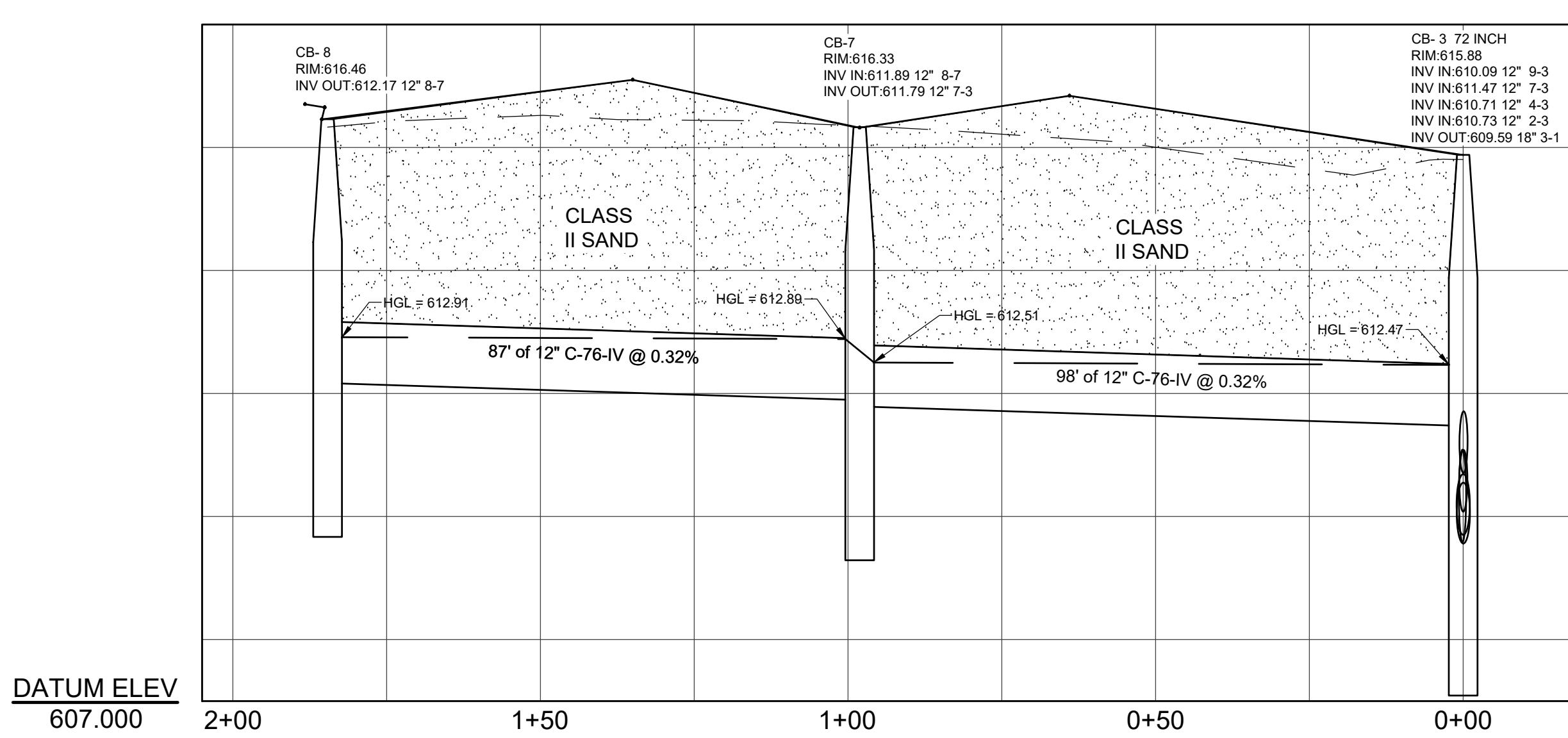
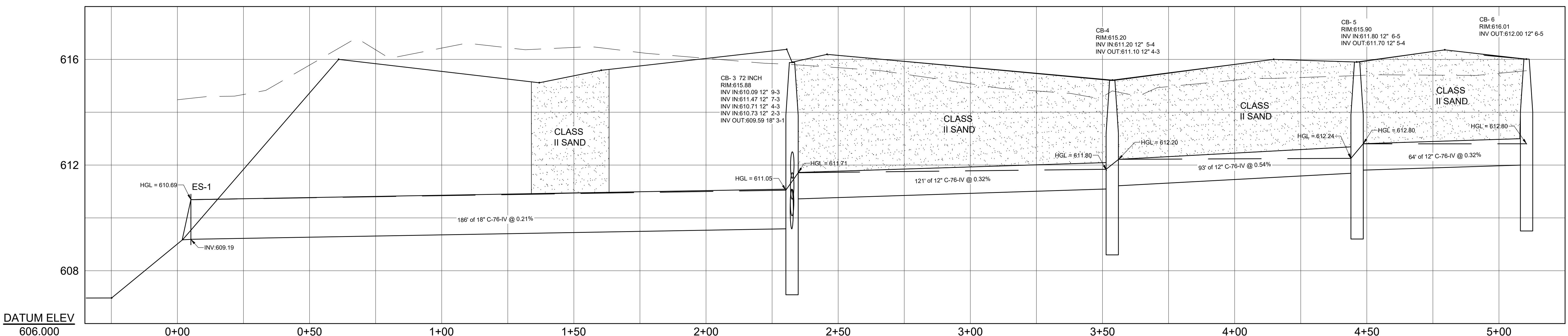
Project File: storm design test 7 2025-03-26.atm

Number of lines: 14

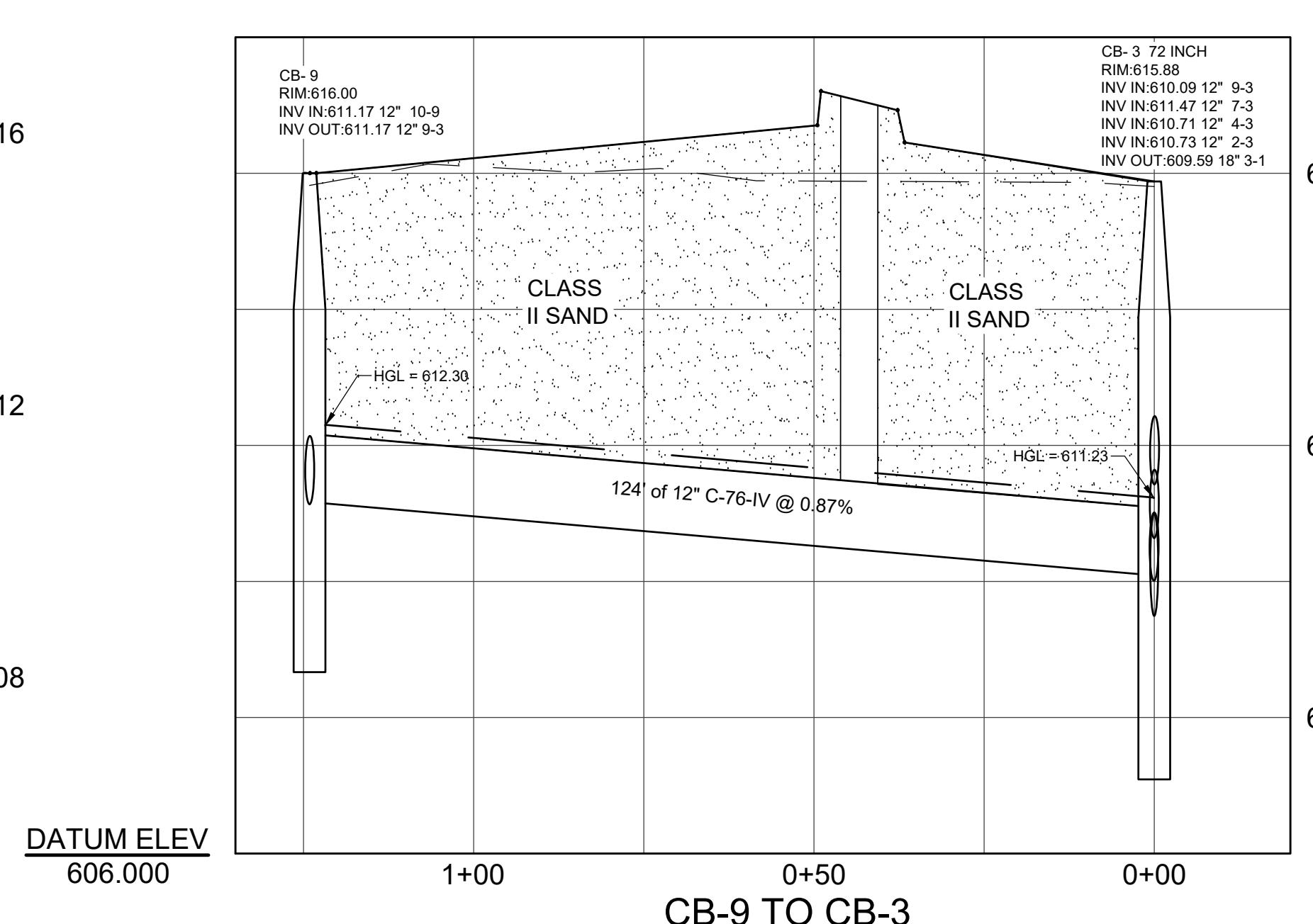
Date: 3/26/2025

NOTES: Intensity = 31.66 / (Inlet time + 9.17) ^ 0.81 - Return period = 10 Yrs.; ** Critical depth

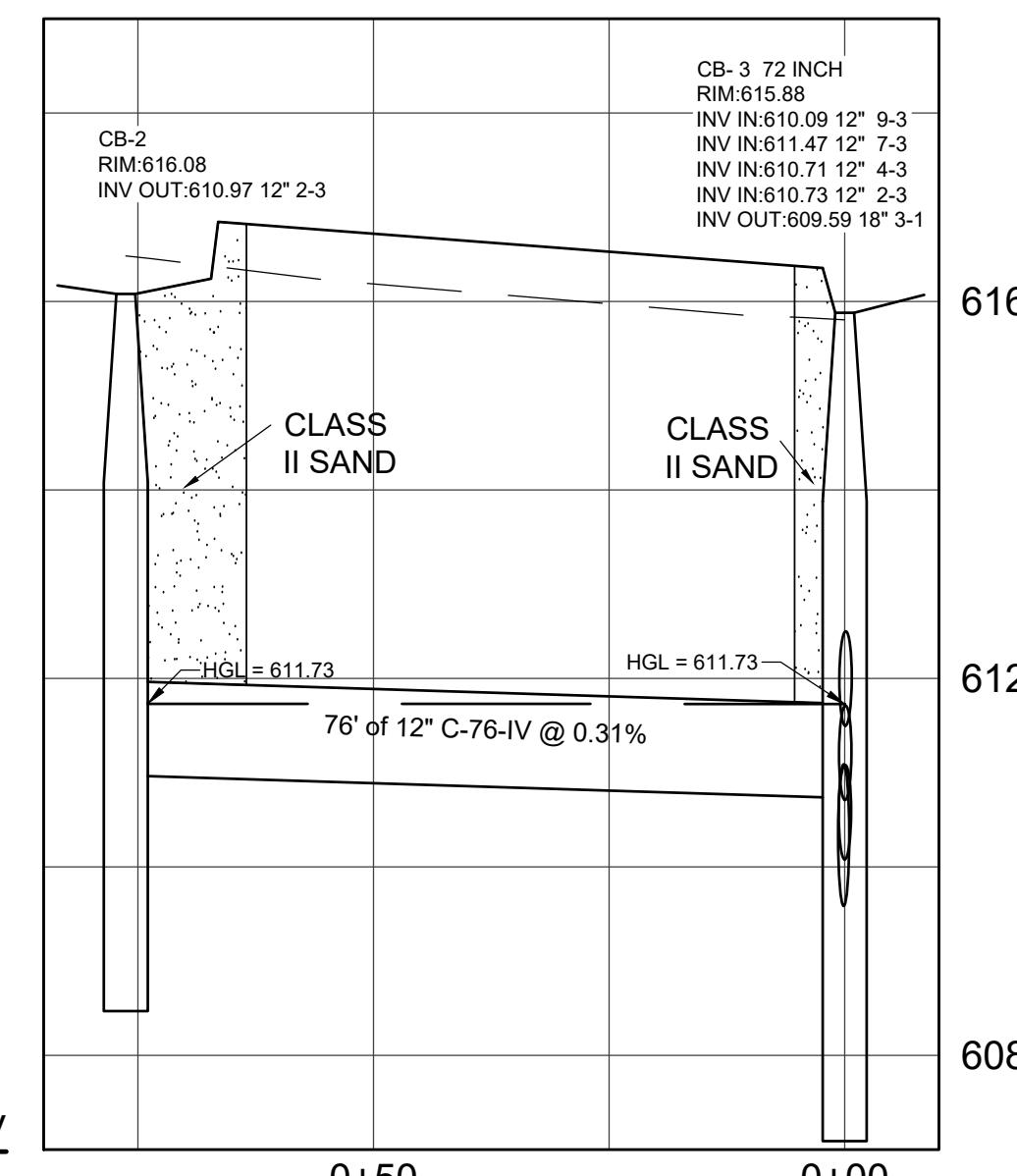




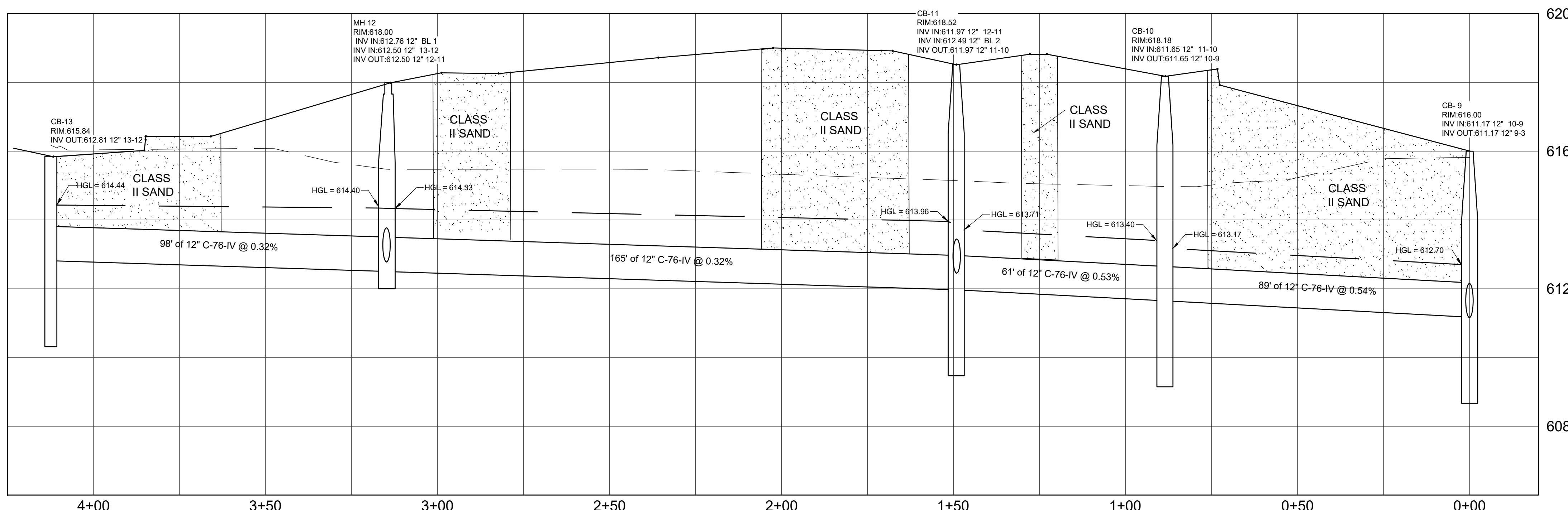
CB-6 TO ES-1



CB-9 TO CB-3

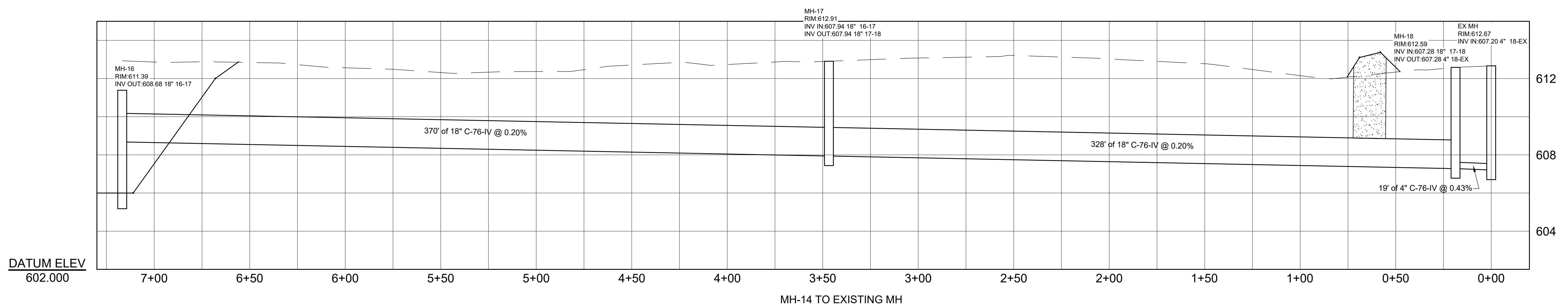
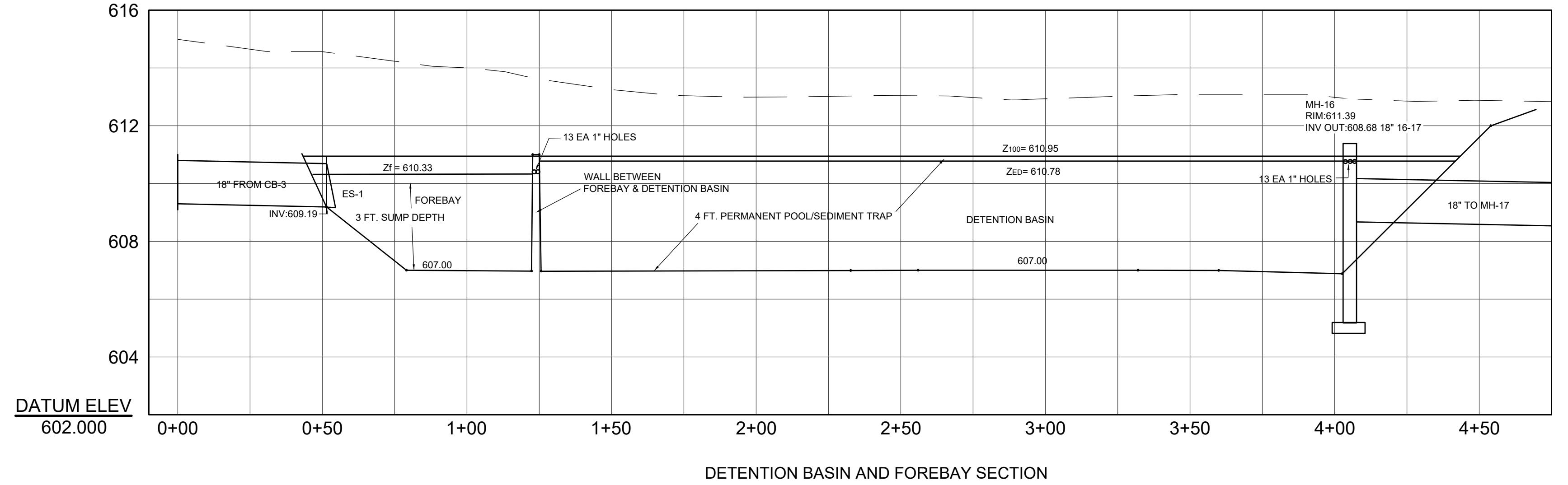


CB-2 TO CB-3



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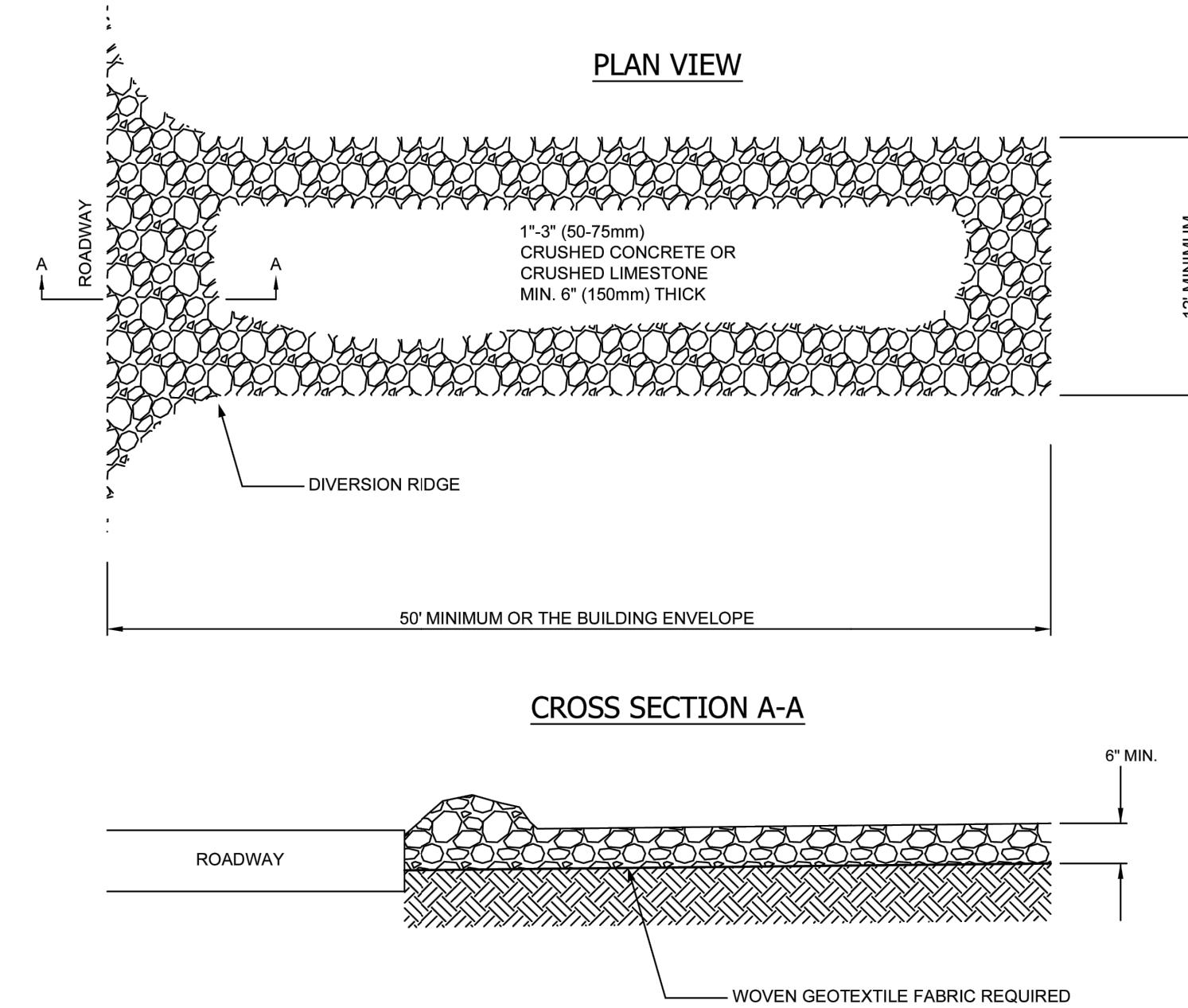


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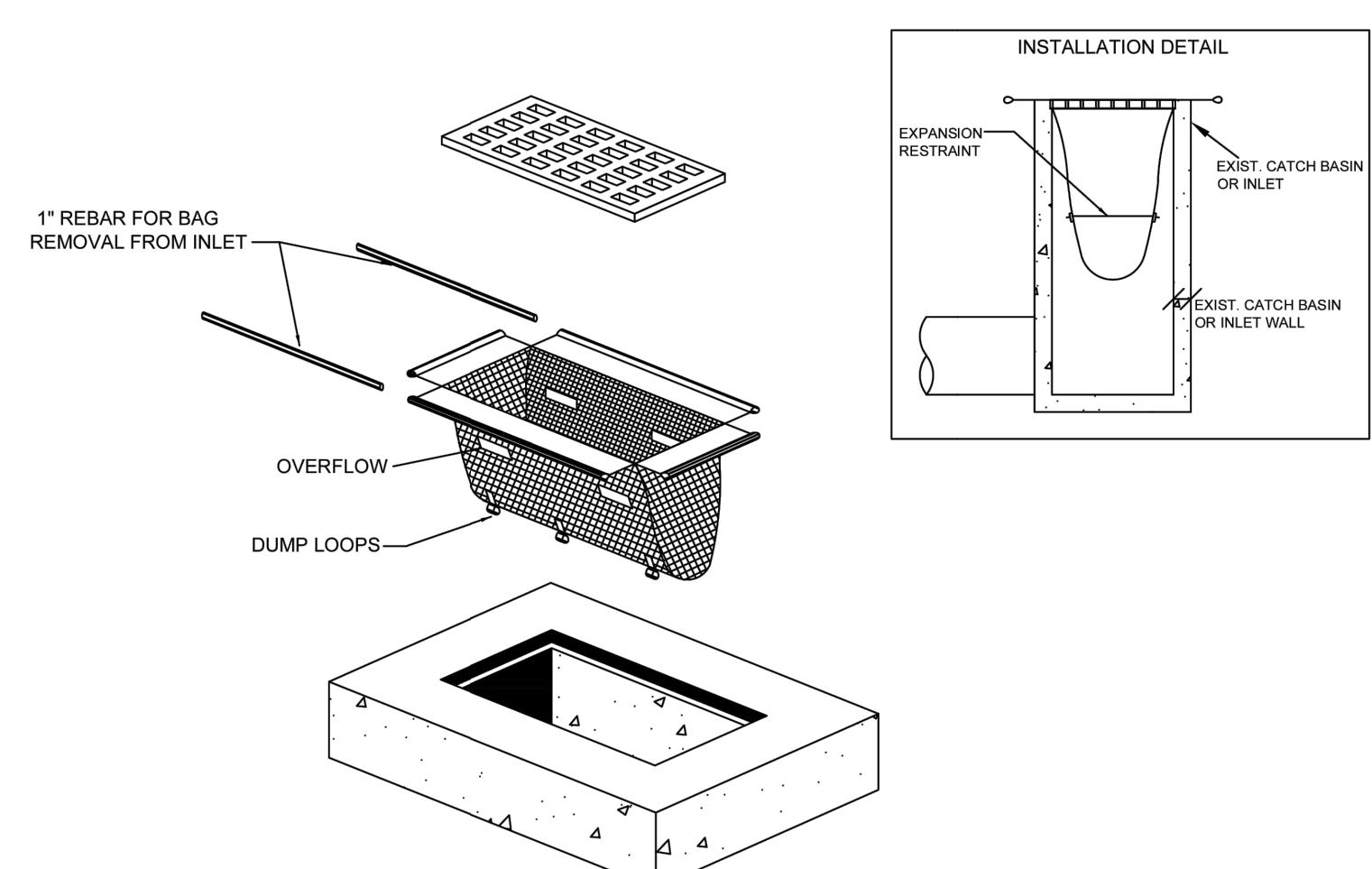
<p>MASON BROWNS ASSOCIATES, LLC</p> <p>CIVIL ENGINEERS & SURVEYORS 2708 BRIDLE ROAD BLOOMFIELD HILLS, MICHIGAN 48304 (248) 425-9789</p>
<p>STAHL'S AUTOMOTIVE MUSEUM EXPANSION STORM SEWER PROFILES AND DETENTION/FOREBAY SECTION</p> <p>THREE RIVERS, MI</p>

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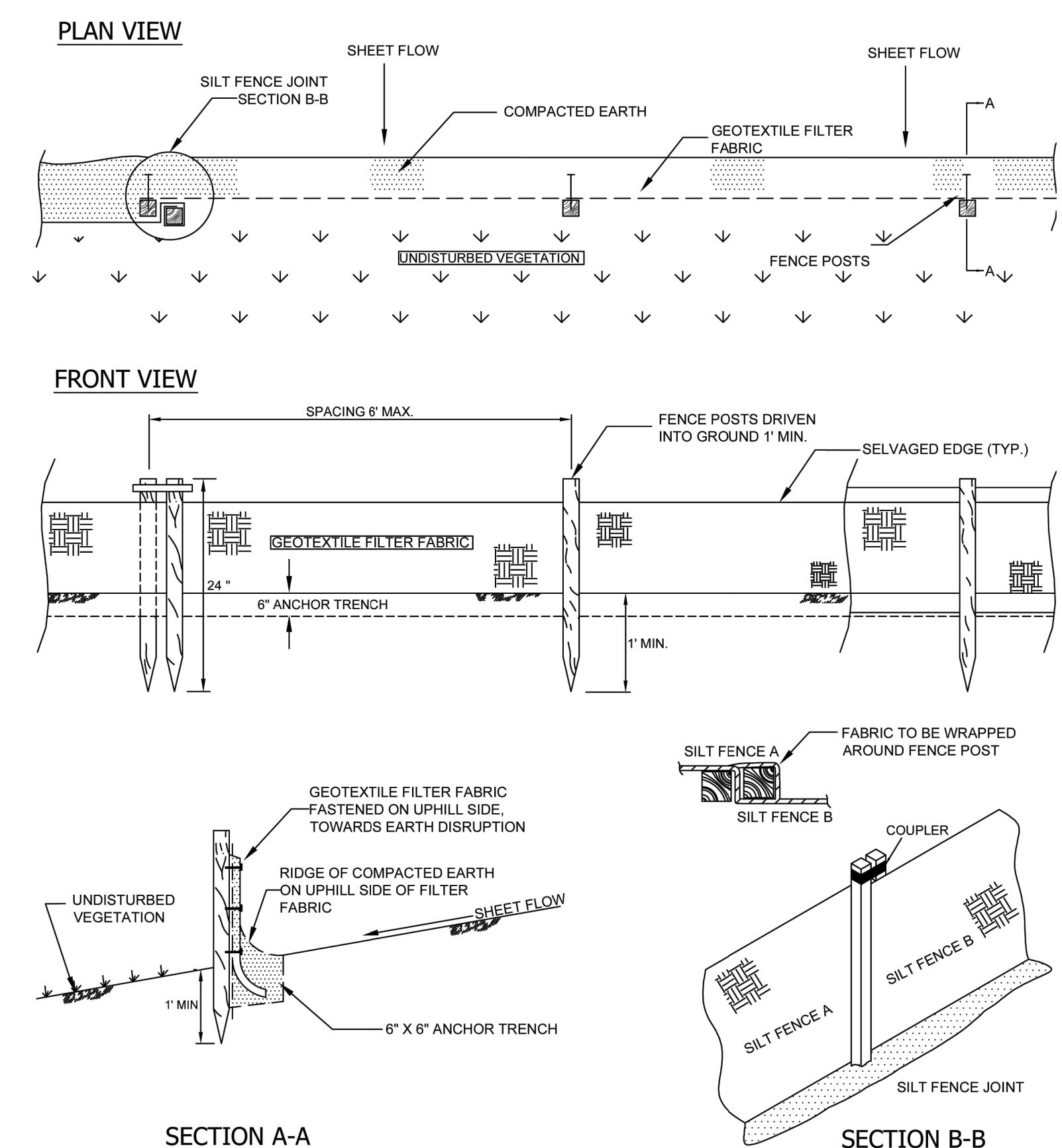
TEMPORARY STONE ACCESS DRIVE
(SESC-12)



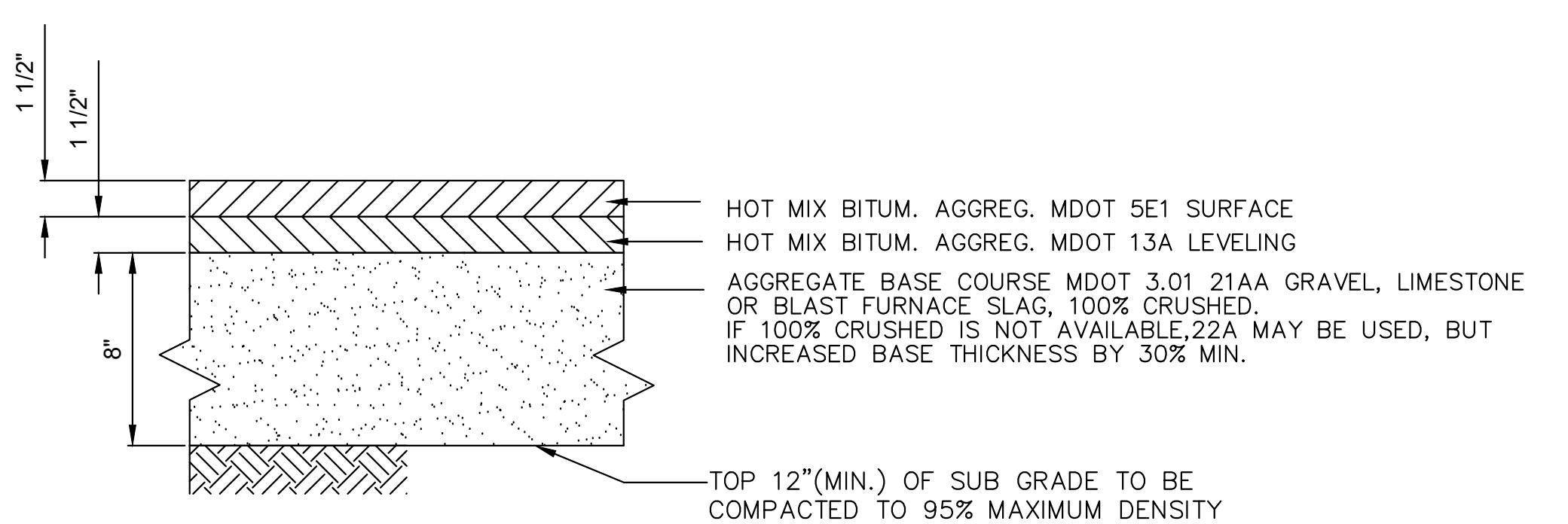
SACK TYPE INLET FILTER
(SESC-3)



SILT FENCE WITHOUT SUPPORT FENCE
(SESC-6)



CONCRETE PAVING DETAIL PARKING LOT AND DRIVEWAYS
N.T.S.



ASPHALT PAVING DETAIL

N.T.S.

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