



TOWNSHIP of HOPEWELL
MERCER COUNTY

201 WASHINGTON CROSSING – PENNINGTON ROAD
TITUSVILLE, NEW JERSEY 08560-1410

PROJECT / APPLICATION

BLOCK:

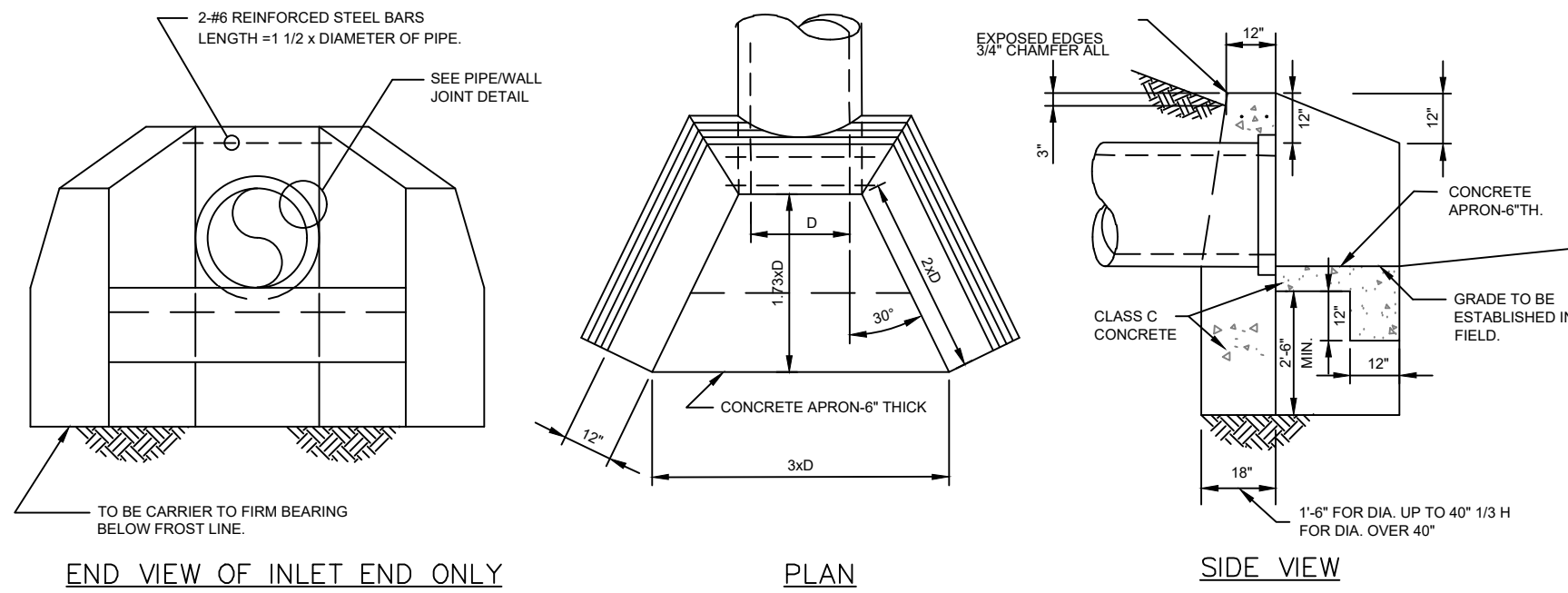
LOT:

ADDRESS:

PROJECT NAME:

CONSTRUCTION DETAILS 10/10/25

V:\081391 - Nursery Road-Hopewell\081391-01-001 (DWG) - Venue at Hopewell SP Engineering\Engineering Plans\02 Site Plans\081391-SP-DET.dwg 10/13/25 03:45:35PM jres, LAYOUT, SHI--186-UTILITY

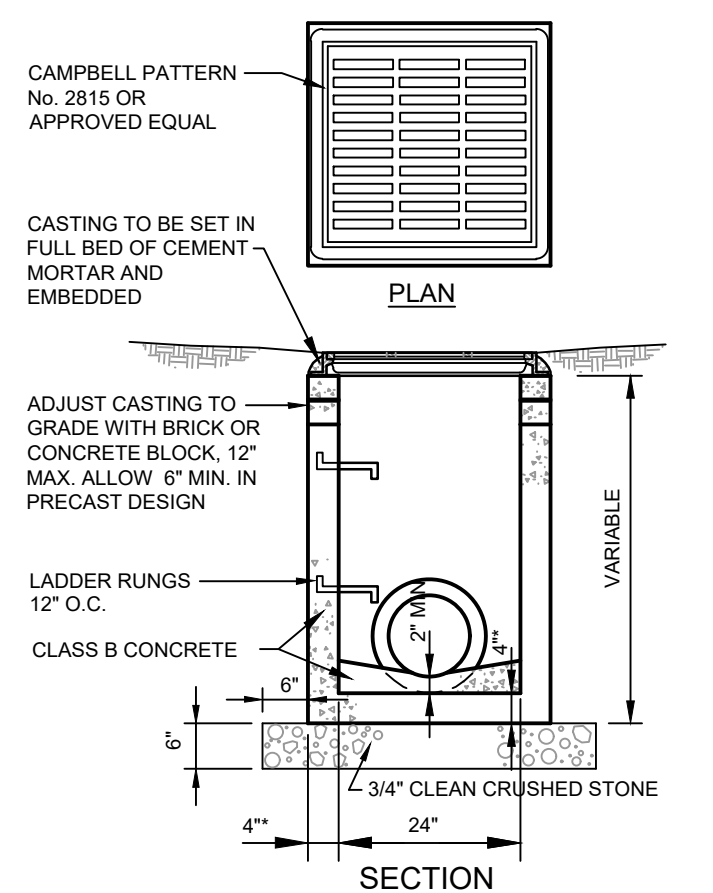


GENERAL NOTES

1. ALL EDGES TO BE CHAMFERED 1".
2. THE RUBBING OF HEADWALLS TO REMOVE FORM MARKS AS REQUIRED IN SUBSECTIONS 501.14 FOR CONCRETE STRUCTURES. WILL NOT BE REQUIRED FOR HEADWALLS AT THE BOTTOM OF EMBANKMENTS IN RURAL AREAS.
3. FOR SLOPE DRAIN HEADWALLS, DIMENSIONS AND APRON GRADES SHALL BE SET BY ENGINEER.
4. FOR MORE THAN ONE PIPE, SET THE PERMANENT OF ONE FOOT AMOUNT OUTSIDE BARRIS TO OUTSIDE BARREL. THERE SHALL BE 12" ABOVE THE TOP OF A PIPE IN A WINGWALL. THE TERMINUS OF THE WINGWALL SHALL BE 30 FROM THE CENTERLINE OF THE PIPE IN A WINGWALL.
5. THE TERMINUS FOR OUTLET AND INLET APRONS SHALL BE SET BY EXTENDING THE PIPE GRADE HEAD AND BACK RESPECTIVELY.
6. FOR ARCH PIPE, THE SPAN SHALL BE SUBSTITUTED FOR D.
7. IF PRECAST HEADWALLS ARE TO BE USED, SHOP DRAWINGS OF THE UNITS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW AND APPROVAL.

PRECAST CONCRETE HEADWALL WITH WINGWALLS

NOT TO SCALE

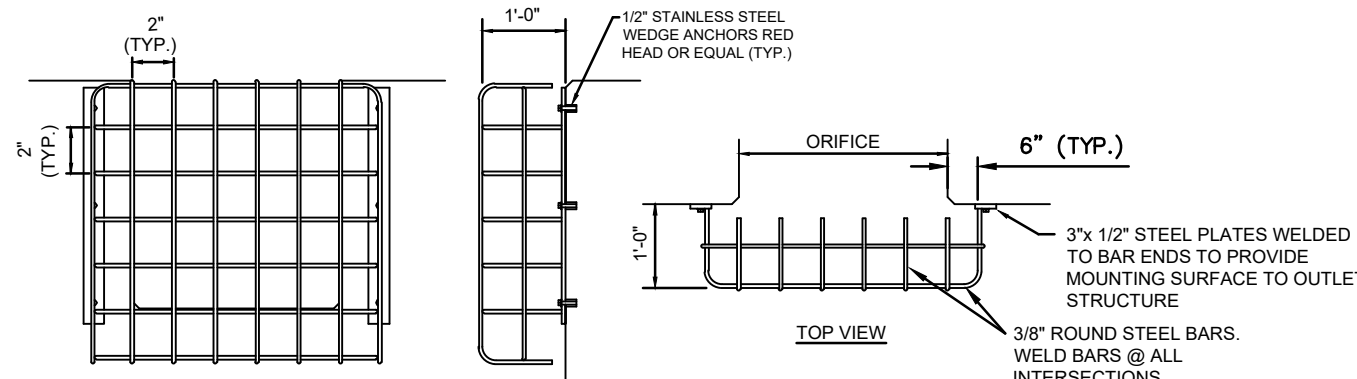


1. THIS INLET MAY BE CONSTRUCTED OF BRICK, CONCRETE OR CONCRETE BLOCK. IF BRICK OR CONCRETE BLOCK IS USED THE BOTTOM SHALL BE AS SHOWN FOR CONCRETE.
2. "WALLS SHALL BE 4" MIN. IF PRECAST AND 6" MIN. IF BLOCK.

CONCRETE YARD INLET 2'x2'

N.T.S.

PIPE SIZE	CORR. STEEL PIPE IN C.Y.	REIN. CONC. PIPE IN C.Y.	APRONS IN C.Y.
12"	1.4	1.4	0.2
15"	1.7	1.7	0.2
18"	2.1	2.1	0.3
21"	2.5	2.5	0.4
24"	2.9	2.9	0.5
27"	3.3	3.4	0.6
30"	3.7	3.8	0.7
36"	4.7	4.8	0.9
42"	5.8	6.3	1.2
48"	7.6	8.4	1.5
54"	9.7	10.7	1.8
60"	12.2	13.4	2.1
66"	15.0	16.4	2.5
72"	18.1	19.9	3.0

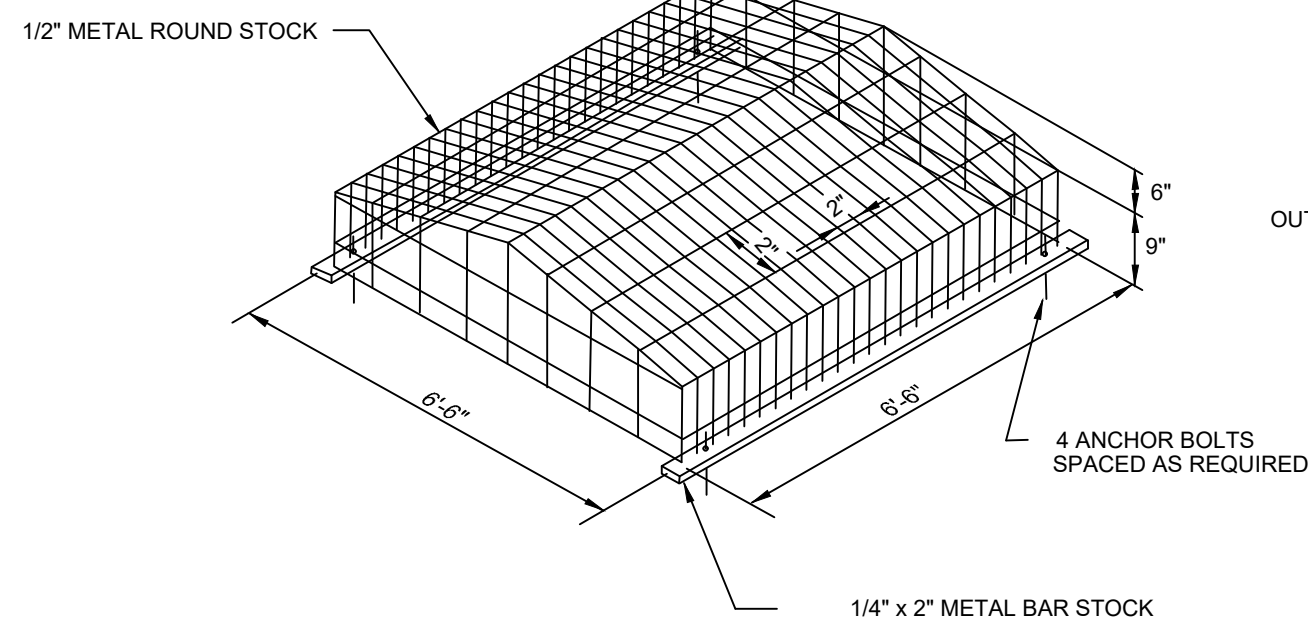


NOTES:

1. ALL JOINTS SHALL BE WELDED.
2. ALL METAL SHALL CONSIST OF STAINLESS STEEL OR GALVANIZED STEEL.

ORIFICE TRASH RACK DETAIL

NOT TO SCALE



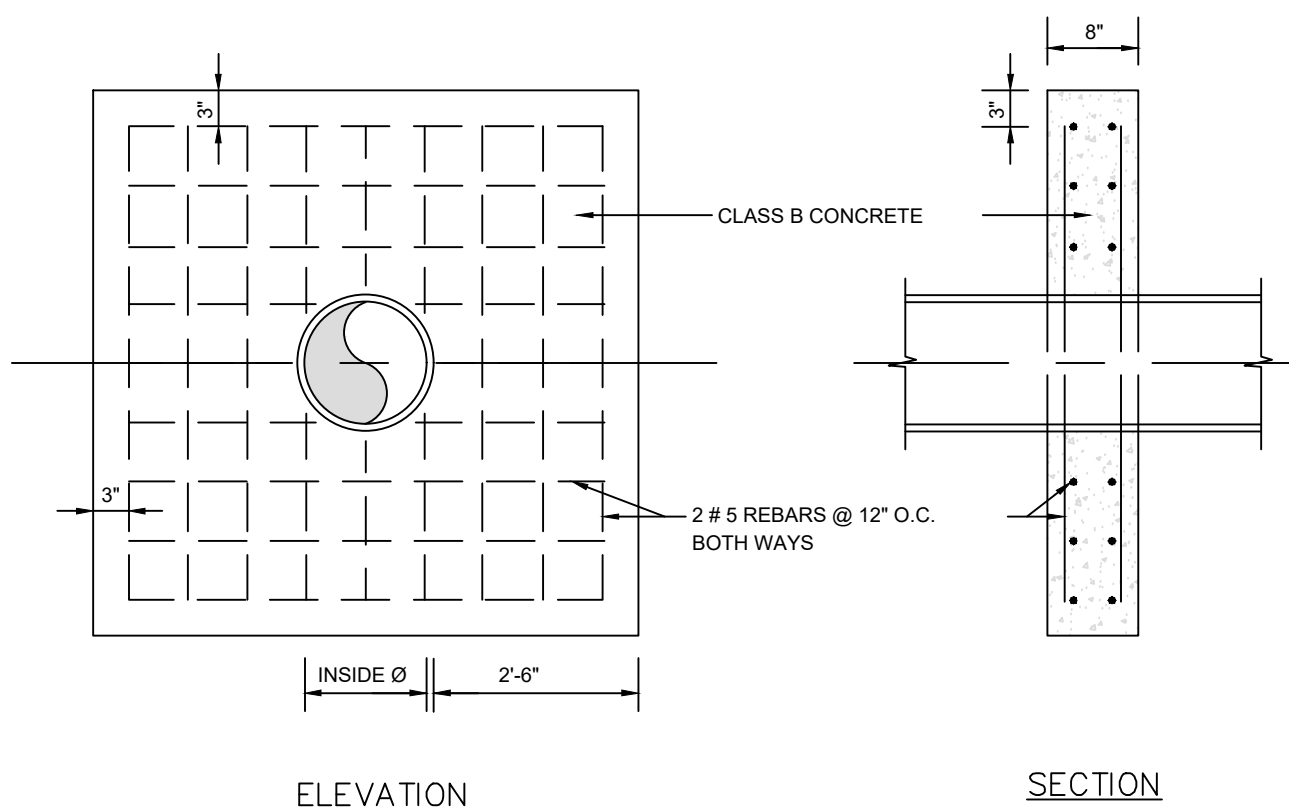
NOTES:

1. ALL JOINTS SHALL BE WELDED.
2. ALL METAL SHALL CONSIST OF STAINLESS STEEL OR GALVANIZED STEEL.

TOP OF STRUCTURE TRASH RACK

NOT TO SCALE

BASIN	ID	ELEV. "A"	WEIR LENGTH	ELEV. "B"	ORIFICE SIZE	ELEV. "C"	OUTLET PIPE SIZE	ELEV. "D"	WEIR 2 LENGTH	ELEV. "E"	ORIFICE 2 SIZE	ELEV. "F"
1	OS 1	210.86	4'	209.67	2.5"	209.17	30"	208.86				
2	OS 669	211.00	4'	210.20	2.5"	209.05	18"	208.12				
3	OS 39	217.00	4'	215.50	2.5"	212.90	18"	208.00				
4A	OS 670	206.00	4'	205.00	36" L x 12" H	203.85	18"	202.00				
4B	OS 671	206.00	4'	205.00	36" L x 12" H	203.77	18"	202.00				
5	OS 11	202.21	4'	201.25	2.5"	200.02	30"	200.00				
6	OS 28	203.00	4'	200.10	2.5"	199.50	24"	198.65				
7	OS 30	208.86	4'	207.99	2.5"	207.17	30"	206.65				
8	OS 35	183.00	4'	179.79	2.5"	179.17	18"	178.65				
9	OS 32	183.00	4'	179.93	2.5"	179.30	24"	178.65				
10	OS 568	183.00	4'	182.00	2' L x 0.16' H	179.88	18"	179.00				
11	OS 57	184.00	4'	182.75	2.5"	181.00	24"	180.00				
12	OS 91	205.00	4'	203.02	7.5"	201.90	30"	200.65				
13	OS 84	196.00	4'	193.95	2.5"	192.70	18"	191.30				
14	OS 104	194.21	4'	193.45	2.5"	192.40	24"	192.00				
15	OS 105	197.86	4'	198.58	6.5"	197.35	30"	195.30				
16A	OS 668	182.00	4'	179.91	24" L x 4" H	179.16	18"	178.65				
16B	OS 59	182.00	4'	180.00	2' L x 0.16' H	179.00	18"	178.00				
17A	OS 657	183.00	4'	182.00	2.5"	179.18	18"	178.65				
17B	OS 144	183.00	4'	179.86	2.5"	179.35	18"	179.00				
18	OS 121	190.00	4'	189.34	2.5"	187.25	24"	186.00				
19	OS 379	199.00	4'	197.75	2.5"	196.00	15"	194.30				
20	OS 431	154.00	4'	152.75	2.5"	151.68	30"	151.00				
21	OS 433	154.00	4'	152.33	2.5"	150.68	24"	149.30				
22	OS 664	152.00	4'	149.47	2.5"	148.15	18"	147.30				
23	OS 534	149.00	4'	146.50	2.5"	145.28	18"	144.30				
24	OS 532	149.00	4'	146.25	5"	145.17	18"	144.30				
25	OS 530	148.00	4'	145.95	4.5"	144.42	18"	144.00				
26	OS 508	148.00	4'	146.00	2.5"	144.36	24"	143.65				
27	OS 592	172.00	4'	172.25	8"	170.47	15"	167.65	2'	171.75		
28	OS 593	168.40	4'	170.00	2.5' L x 0.75' H	167.87	24"	165.65	1'	169.50		
29	OS 461	188.21	4'	187.49	2.5"	186.87	18"	186.00				
30	OS 462	180.00	4'	179.00	2.5"	175.93	18"	176.00				
31	OS 459	197.00	4'	195.00	2.5"	192.97	24"	192.30				
32	OS 861	196.21	4'	197.00	3' L x 0.5' H	194.53	24"	195.00				
33	OS 443	191.00	4'	186.25	2.5"	184.96	18"	184.00				
34	OS 616	195.00	4'	192.33	2.5"	191.09	15"	190.00				
35	OS 617	194.00	4'	193.05	2.5"	191.44	15"	189.65				
36A	OS 672	195.00	4'	194.00	4"	192.24	18"	190.50				
36B	OS 367	195.00	4'	193.55	3' L x 0.2' H	192.53	15"	190.65				
37A	OS 620	198.00	4'	196.48	2.5"	194.77	15"	193.65				
37B	OS 358	195.86	4'	196.63	2.5"	194.81	18"	193.00				
38	OS 315	209.00	4'	206.69	2.5"	205.26	18"	205.00				
39	OS 629	205.00	4'	203.04	6"	201.71	15"	200.65				
40	OS 630	205.00	4'	204.67	2' L x 0.5' H	202.65	15"	201.65				
41	OS 269	186.00	4'	184.13	2.5"	182.50	24"	182.00				
42	OS 272	185.00	4'	184.01	2.5"	182.60	18"	181.00				
43	OS 285	181.00	4'	178.58	2.5"	177.62	24"	177.00				
44	OS 289	170.00	4'	167.50	2.5"	166.41	24"	166.00				
45	OS 290	170.00	4'	169.00	2.5"	167.25	18"	166.00				
46A	OS 673	184.00	4'	183.84	2.5"	180.77	18"	181.28				
46B	OS 280	184.00	4'	184.45	2.5"	183.82	18"	179.65				
47	OS 262	189.00	4'	189.52	2.5"	186.84	18"	189.00				
48	OS 242	195.00	4'	193.00	2.5"	191.40	24"	191.00				
49	OS 841	187.00	4'	184.74	2.5"	183.55	24"	183.00				
50	OS 240	188.00	4'	185.30	2.5"	184.32	24"	183.65				
51	OS 238	191.00	4'	185.71	4' L x 1' H	184.05	30"	184.00				
52	OS 633	199.00	4'	195.72	3' L x 0.5' H	195.08	18"	195.00				
53	OS 665	204.00	4'	201.91	2' L x 0.33' H	201.02	24"	201.00				
54	OS 666	203.00	4'	202.42	2' L x 0.33' H	201.40	24"	201.00				
55	OS 227	196.00	4'	193.82	1.83' L x 0.2' H	192.80	18"	191.65				
56	OS 230	196.00	4'	193.62	3' L x 0.5' H	192.19	18"	191.65				
57	OS 203	206.00	4'	203.60	2.5"	202.34	36"	202.00				
58	OS 207	203.00	4'	199.91	2.5"	198.97	36"	199.00				

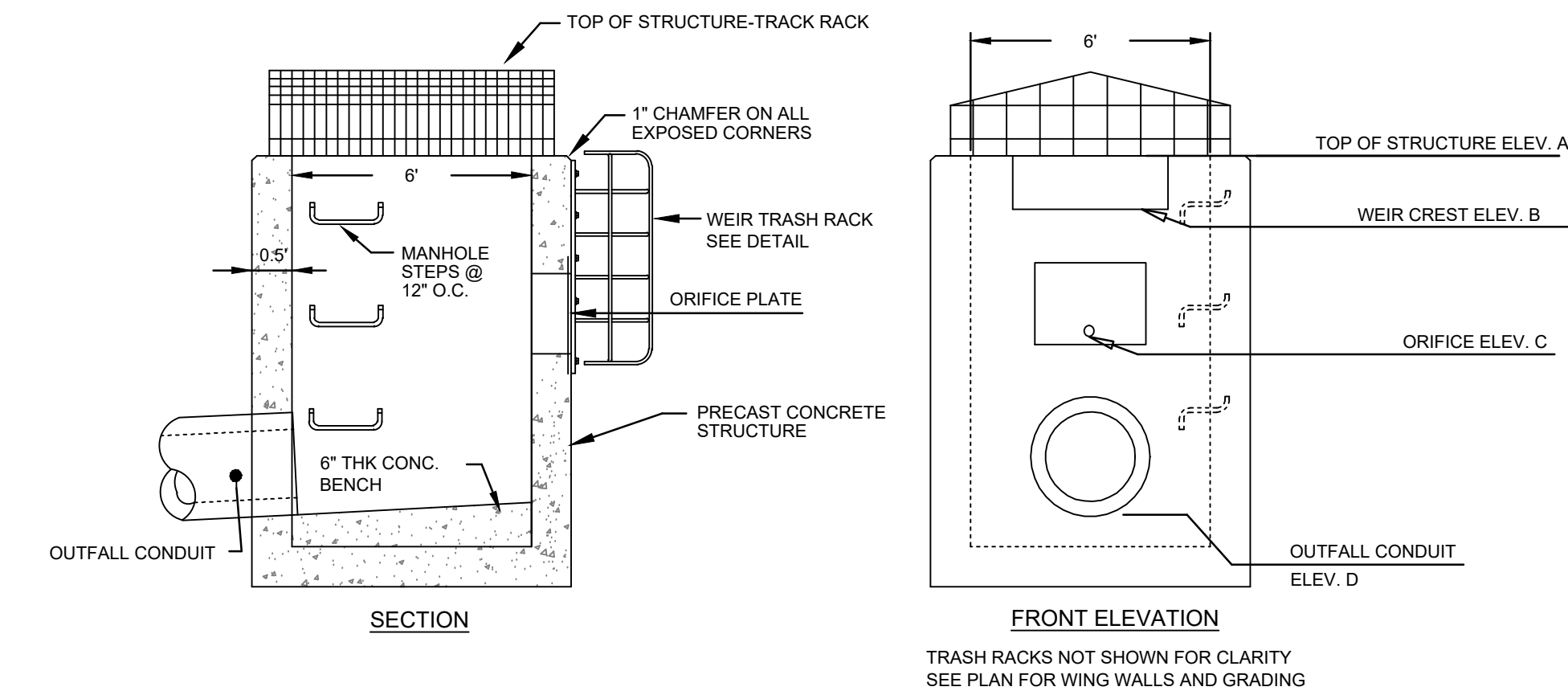


NOTES:

1. PRIOR TO CONSTRUCTION OF COLLAR, THE OUTSIDE OF THE PIPE SHALL BE CLEANED.
2. ALL REINFORCING STEEL SHALL BE GRADE 40.
3. ANTI-SEEP COLLARS SHALL BE INSTALLED ON ALL BASIN DISCHARGE PIPES IN ACCORDANCE WITH CLAY CORE DETAILS. DOWNSTREAM OF CLAY CORE, ANTI-SEEP COLLARS SHALL BE INSTALLED AT MAX. 50' INTERVALS TO DISCHARGE POINT.
4. ALL DIMENSIONS APPLY FOR R.C.P., H.E.R.C.P., CONCRETE BOX CULVERTS, ETC.

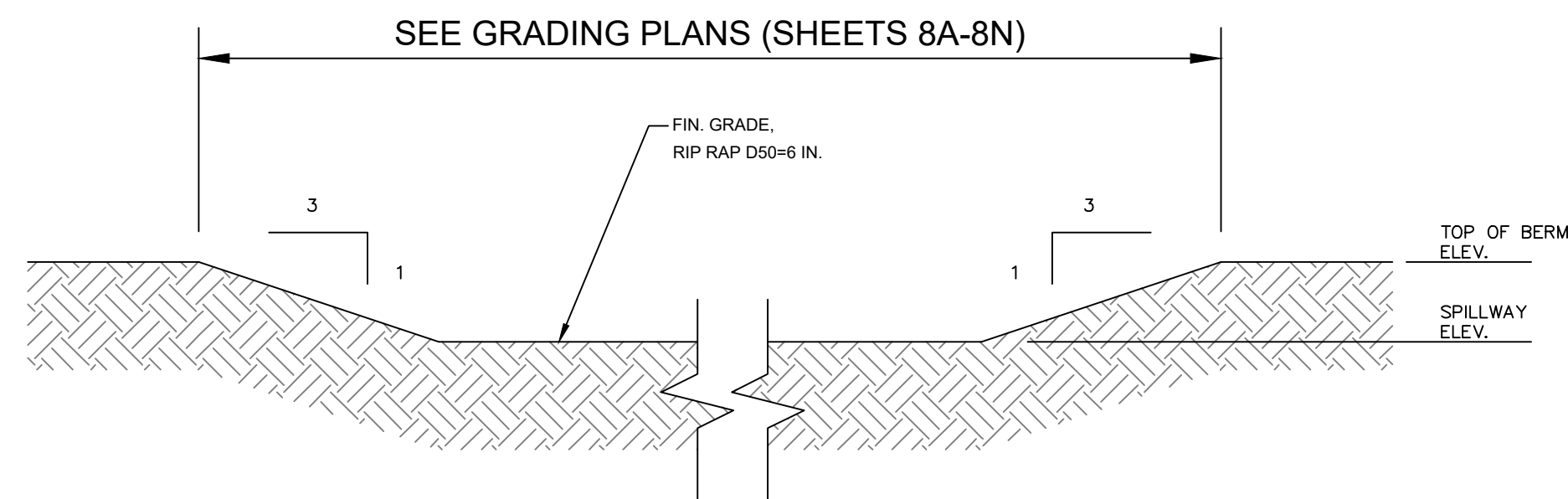
TYPICAL ANTI-SEEP COLLAR (OR APPROVED EQUAL)

NOT TO SCALE



OUTLET CONTROL STRUCTURE DETAIL

NOT TO SCALE



EMERGENCY SPILLWAY DETAIL

NOT TO SCALE

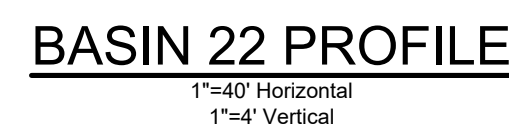
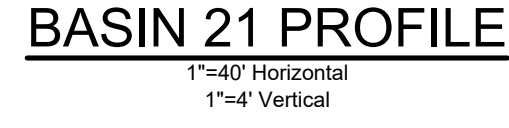
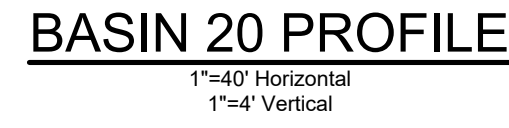
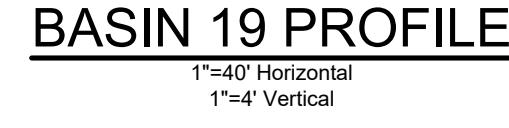
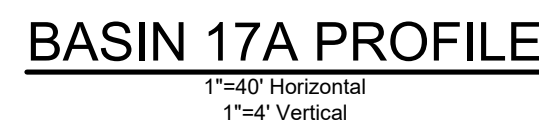
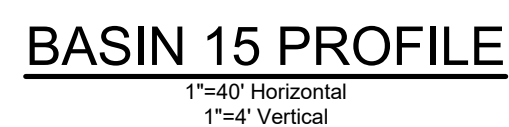
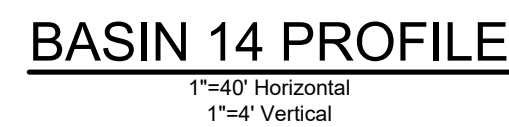
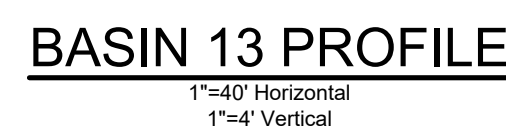
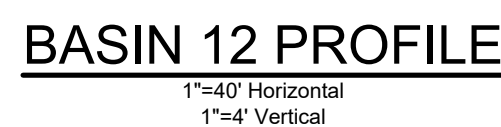
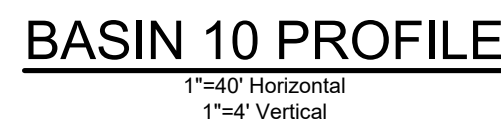
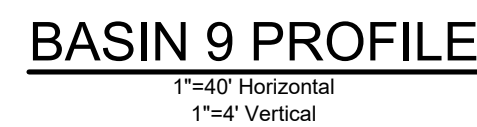
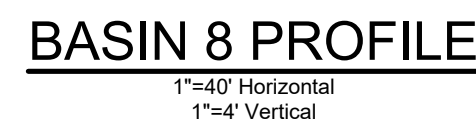
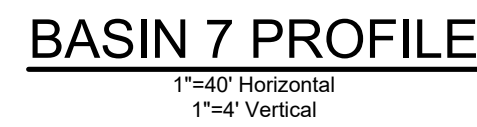
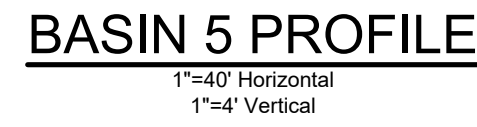
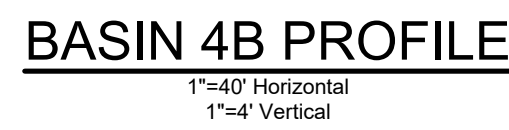
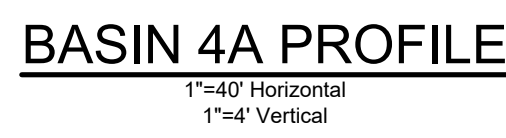
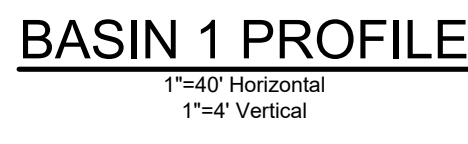
PRELIMINARY AND FINAL MAJOR SUBDIVISION & FILLWATER AND EROSION CONTROL PLAN FOR VENUE AT HOPEWELL CONSTRUCTION DETAILS

SEAN A. DELANY, N.J. Professional Engineer, Lic. 24GED447100

18G

REVISION

NO.	DATE	DESCRIPTION
1	10/10/25	REVISED PER ENGINEERING COMMENTS
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PROJ: 081391-01-001
DATE: 06/25/2024
CHKD: SAD

Freehold, New Jersey 07728
bowman.com
E-mail: Nj@Bowman.com
FAX: 732-965-5501
NJ Certificate of Authorization
No. 24GA28222600

SHEET No.
181

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