



Extension

PERMIT NO.
24968

CITY OF NEW BEDFORD
SEWER AND/OR STORM DRAIN PERMIT

DATE 9-8-02
Expire date: 9-8-02

This certifies that permission is granted to

Property Owner M.B.A. 10 Park Plaza #333 Boston, MA 02116-9248 Tel. 617-216-9248
Address Wamsutta St West West of Taunton Ave
To connect a sewer and/or storm drain located at 135-140 Street
Assessor's Plot 72 Lot 205 to the sewer and/or storm drain in Wamsutta
Extending 135 ft drainage manhole existing 24" pipe on Wamsutta @ Ashford Ave

To be laid in accordance with the conditions in this application and the City of New Bedford ordinances.
TYPE OF USE: RESIDENTIAL COMMERCIAL INDUSTRIAL FLOW G.P.D.

If applicant other than actual property owner, attach Letter of Authorization from Property Owner.
Name Anthony P. Pappas - S.P.A. Construction Tel. 617-352-8075
Mailing Address 130 Longwell St Taunton, MA 01905
The Bonded Contractor/Drain Layer authorized to perform this work is:
S.P.A. Construction 130 Longwell St Taunton, MA 01905 617-352-8075
Name S.P.A. Construction Address 130 Longwell St Tel. 617-352-8075
Type of Pipe Required: 24" concrete box culvert w/ 1 DMH & 1 high wall to catch

PERMIT EXPIRES ONE YEAR AFTER DATE OF ISSUE

- Requires separate connections for sewage and storm drain where applicable. Storm water cannot be discharged to a sanitary sewer.
 - All work must be inspected and approved by a D.P.I. inspector before backfilling.
 - If this connection is to be part of a private service shared jointly with other building owners, attach copy of Recorded Joint Maintenance Agreement.
 - Permits can be issued to Industrial and/or Commercial Applicants only upon receipt and approval by the Commissioner of Public Infrastructure of required plans and supplemental information.
 - In addition, a City-issued Industrial User Discharge Permit and/or a Sewer Extension/Connection Permit issued by the Commonwealth of Massachusetts D.E.P. shall be required by the City for Industrial Discharge into the sewer system.
- Industrial User Discharge Permit No. Date

Comm. Mass. Sewer Conn./Ext. Permit No. Date

A Filing and Inspection Fee of \$ 200, plus an Entrance Fee of \$ 0 where applicable, must accompany this application.

Bank# Waver Check# Waver Date Waver Receipt#

Other requirements:

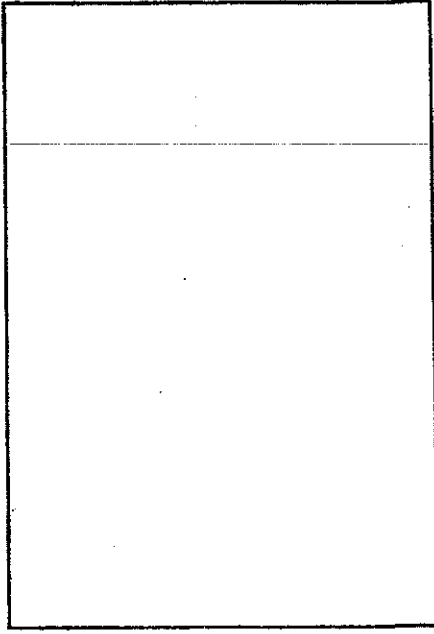
Connection made to Sewer Part of jointly-shared private line YES NO
Storm Drain

Applicant agrees to abide by the above terms, as well as all pertinent ordinances of the City of New Bedford, and such other special rules as the Commissioner of Public Infrastructure and/or City Engineer may deem necessary

Stephen Carpenter * Signature of Property Owner or Representative
Asst. City Engineer

INSPECTOR'S REPORT

INSPECTED BY: _____
DATE: _____
COMMENTS: _____
APPROVED _____ DISAPPROVED _____
SIGNATURE _____



SKETCH PLAN



Department of Public Infrastructure

Jamie Ponte
Commissioner

Water
Wastewater
Highways
Engineering
Cemeteries
Park Maintenance
Forestry
Energy

CITY OF NEW BEDFORD
Jonathan F. Mitchell, Mayor

To Whom It May Concern:

I Kim Dobosz, MBTA SCR Dir. of Constr., 10 Park Plaza, #3830, Boston, MA, being
(Name) (Mailing Address)

Owner of property located at

498 Herman Melville BLVD, New Bedford MA 02740

138, 140 & 375

Plot #564, Lot #01655, hereby agree to allow Zachary Burkhart (SCR Constructors)
(Name)

120 Ingell Street, Taunton MA 02780, to act on my behalf including affixing my
(Mailing Address)

signature in securing permit for:

- ☒ Sewer/Drain Service Permits
- ☒ Water Service Permits
- ☒ Driveway Installation Permits
- ☒ Sidewalk Installation Permits

I further agree to conform to, and abide by, All City rules and ask regulations applicable to the permit (s) being applied for:

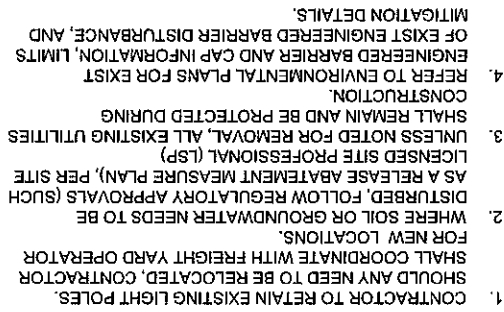
DocuSigned by:

Name Kimberly M. Dobosz
Signature

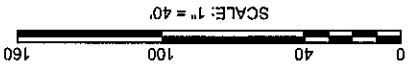
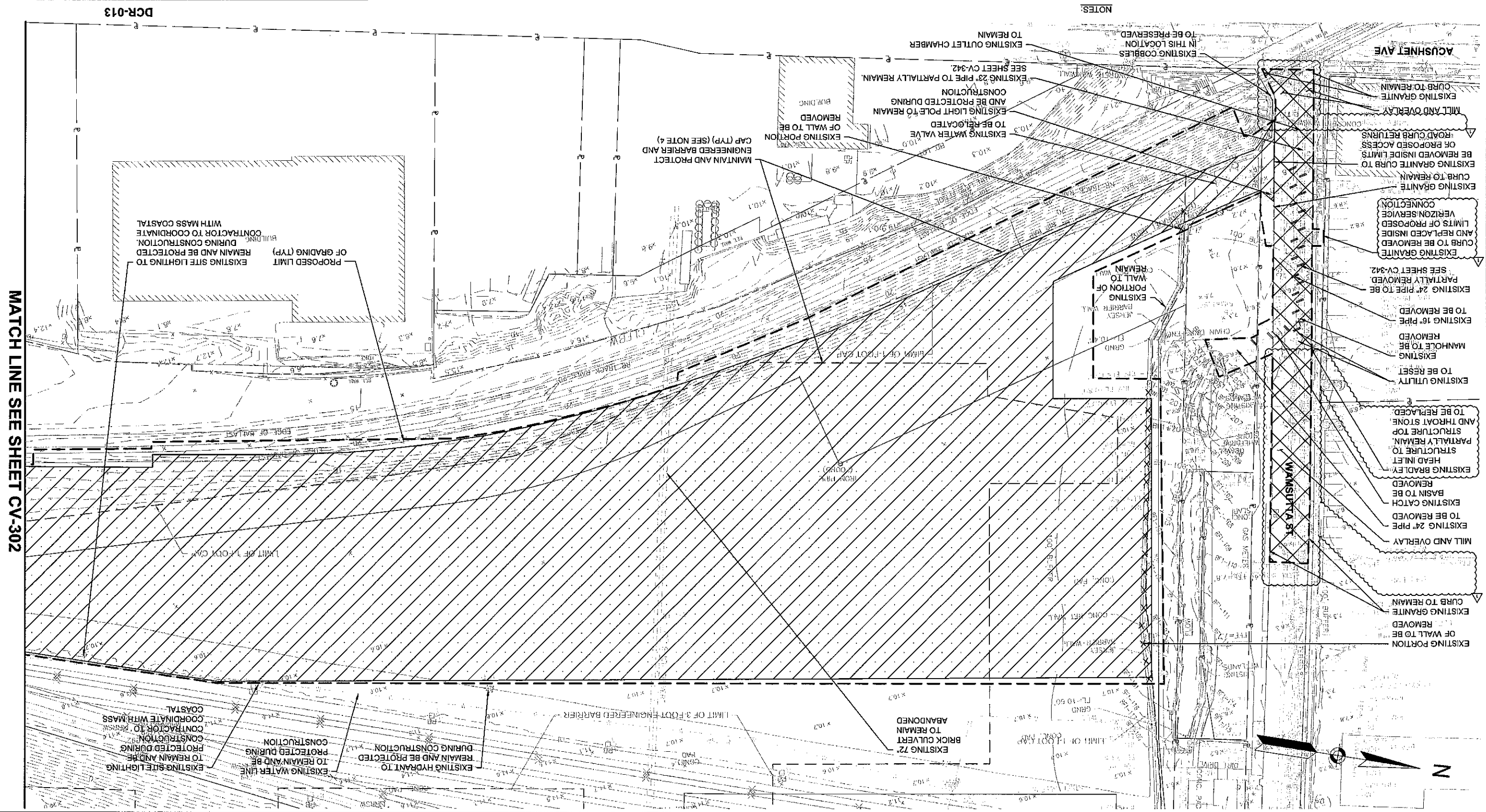
10 Park Plaza, General Manager's Suite 3830, Boston, MA 02116
Address

6/9/2021 617-716-9268
Date Telephone Number

1105 Shawmut Avenue, New Bedford, MA 02746 Telephone 508-979-1550 Fax 1-508-961-3054



5. CONTRACTOR SHALL PRELOAD FILL AREAS IN ACCORDANCE WITH EARTHWORK SPECIFICATION 02300
6. ANY SIDEWALK REPLACEMENT SHALL BE PERFORMED AT EXISTING EXPANSION JOINTS.
7. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING WATER MAIN AND ALL ASSOCIATED CONNECTIONS PRIOR TO ANY WATER MAIN SHUTOFF, DEMOLITION, PURCHASE OR CONSTRUCTION ACTIVITIES
8. CONTRACTOR TO SAWCUT EXISTING PAVEMENT WHERE NECESSARY TO PERFORM UTILITY WORK AND DRIVEWAY APRON INSTALLATION

[illegible]

- NOTES:
1. TOP OF BALLAST ELEV. IN YARD = 14.03 (UNLESS OTHERWISE NOTED)
 2. TOP OF RAIL ELEV. IN YARD = 14.70 (UNLESS OTHERWISE NOTED)
 3. GRASS CHANNEL SIDE SLOPES ARE 2:1 (SEE TYPICAL SECTIONS)
 4. FOR DRAINAGE STRUCTURE TABLE SEE SHEET CV-348
 5. REFER TO PW, CM AND UTILITY PLANS FOR ALL OTHER UTILITY INFORMATION
 6. FLOOD INFORMATION SHOWN OBTAINED FROM FEMA FLOOD INSURANCE STUDY FOR BRISTOL COUNTY, MASSACHUSETTS (ALL JURISDICTIONS) VOLUME 1 OF 4 DATED JULY 2015

7. CONTRACTOR SHALL PRELOAD FILL AREAS IN ACCORDANCE WITH EARTHWORK SPECIFICATION 02300
8. CONTRACTOR SHALL PLACE FILL IN CONFORMANCE WITH REQUIREMENTS STATED IN FINAL WAMUSUTTA GEOTECHNICAL REPORT DATED MAY 1, 2019.
9. ALL PROPOSED RCP SHALL BE CLASS V.
10. CONTRACTOR TO COORDINATE LOCATION OF SIGN FOUNDATIONS WITH VERIZON. CONTRACTOR IS RESPONSIBLE FOR PROPER COORDINATION.

SCALE: 1" = 20'

500 YEAR FLOOD ELEVATION = 15.2

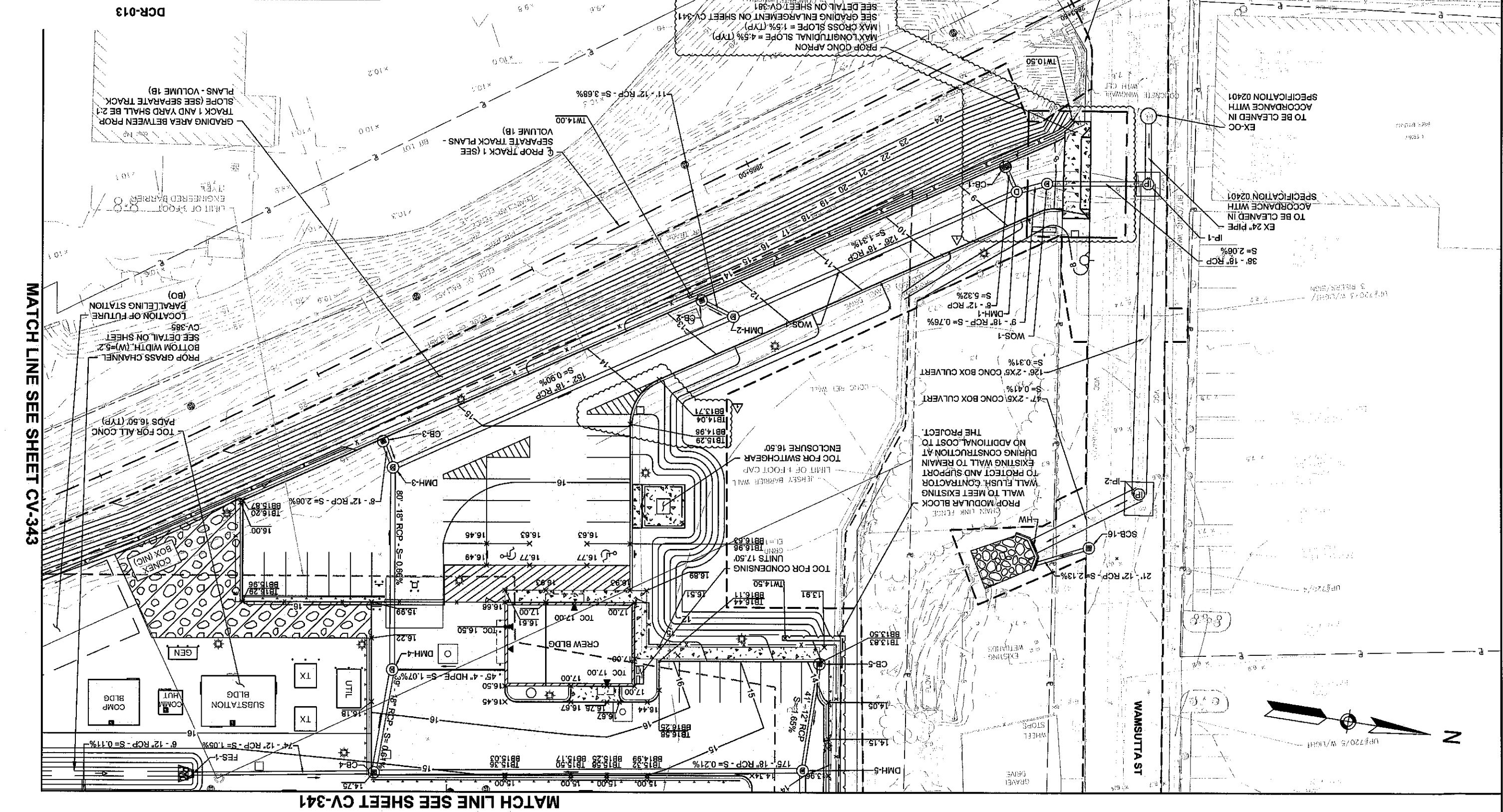
100 YEAR FLOOD ELEVATION = 6.0



DATE: 08/18/2020	MC	MC	WR	DATE: 08/18/2020
VERT: AS SHOWN	MC	MC	WR	DATE: 08/18/2020
HORIZ: AS SHOWN	MC	MC	WR	DATE: 08/18/2020
PLAN NO. 312287	MC	MC	WR	DATE: 08/18/2020
SHEET CV-342	MC	MC	WR	DATE: 08/18/2020
ISSUE	MC	MC	WR	DATE: 08/18/2020

PROJECT MANAGER
APPROVED BY:
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SCR MS/NBL COMMUTER RAIL EXPANSION PROJECT
MIDDLEBOROUGH TO NEW BEDFORD, MA
CONTRACT NO. K78CNC04
NEW BEDFORD MAIN LINE
WAMUSUTTA LAYOVER YARD
GRADING AND DRAINAGE PLAN 2



MATCH LINE SEE SHEET CV-341

MATCH LINE SEE SHEET CV-343

NAME	RIM	INCOMING PIPES	OUTGOING PIPES	NORTHING	EASTING
CB-1	8.52	▽	=4.30' (DMH-1)	2697442.8884	812820.3512
CB-2	12.50		=8.00' (DMH-2)	2697325.9377	812895.3580
CB-3	15.30		=8.00' (DMH-3)	2697203.4516	812974.2113
CB-4	14.76	=10.20' (FES-1) =7.80' (DMH-5)	=7.80' (DMH-4)	2697220.9388	813111.1302
CB-5	13.52		=9.80' (DMH-5)	2697398.1931	813037.5248
CB-6	13.50		=10.00' (DMH-9)	2697414.0559	813219.2676
CB-17	13.50		=10.00' (DMH-12)	2697406.2896	813168.8577
CB-18	13.50		=10.00' (DMH-15)	2697398.3755	813118.4754
SCB-7	13.40		=10.40' (SCB-8)	2696630.5064	813431.1034
SCB-8	13.40	=10.13' (SCB-7)	=10.13' (SCB-9)	2696902.2409	813298.8504
SCB-9	13.40	=9.86' (SCB-8)	=9.86' (DMH-10)	2697173.9755	813256.5972
SCB-10	13.40		=10.40' (SCB-11)	2696622.6691	813290.7100
SCB-11	13.40	=10.13' (SCB-10)	=10.13' (SCB-12)	2696894.4036	813248.4562
SCB-12	13.40	=9.86' (SCB-11)	=9.86' (DMH-13)	2697166.1392	813206.2099
SCB-13	13.40		=10.40' (SCB-14)	2696614.8311	813240.3158
SCB-14	13.40	=10.13' (SCB-13)	=10.13' (SCB-15)	2696886.5661	813198.0620
SCB-15	13.40	=9.86' (SCB-14)	=9.86' (DMH-16)	2697158.3007	813155.8098
SCB-16	5.86		=2.49' (HM-2)	2697502.2483	812972.2904

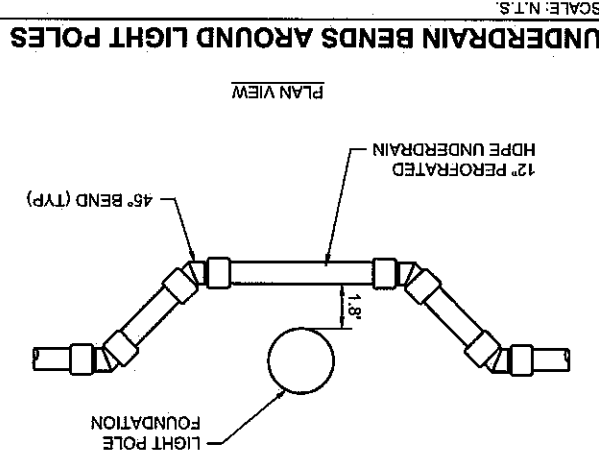
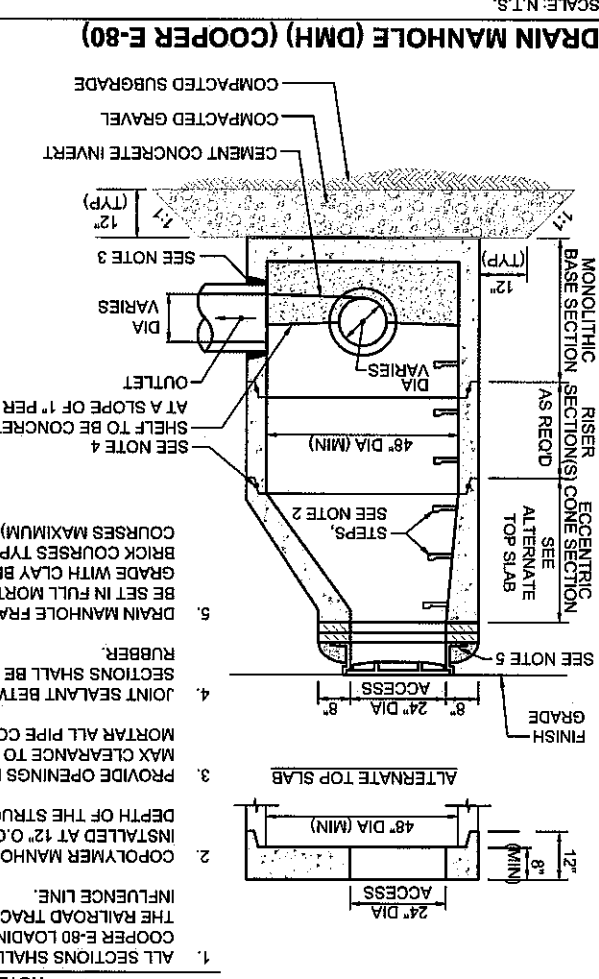
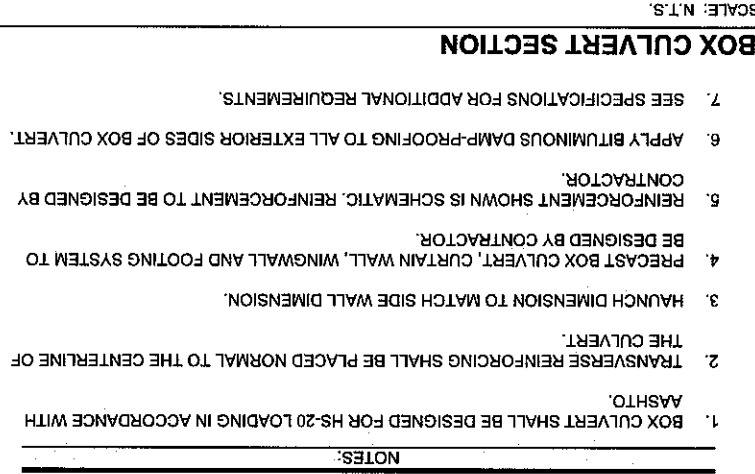
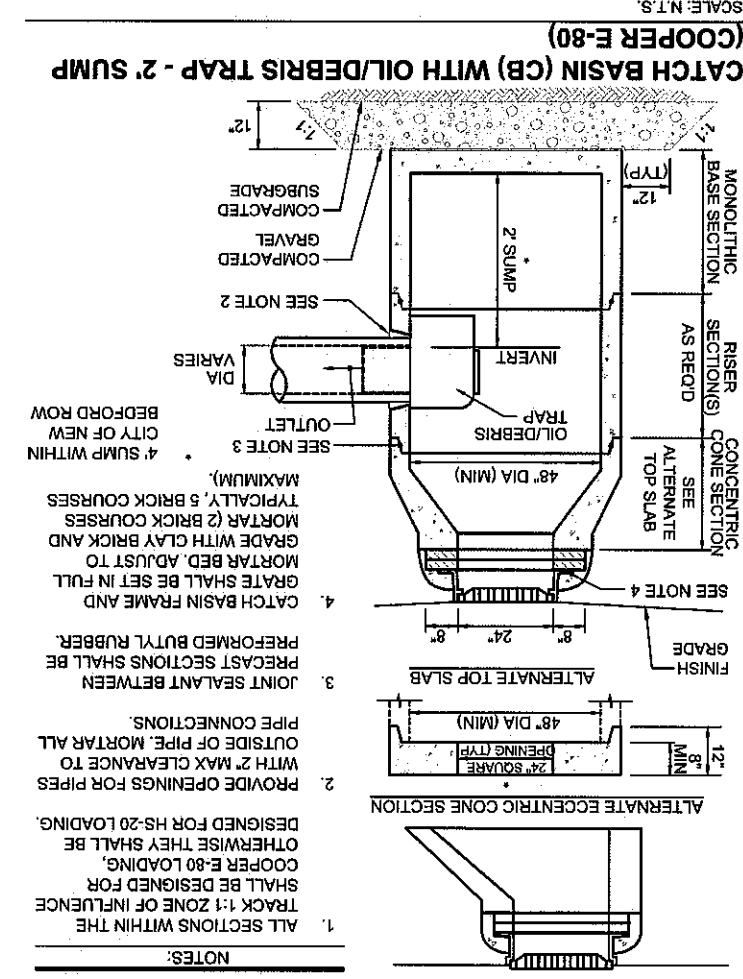
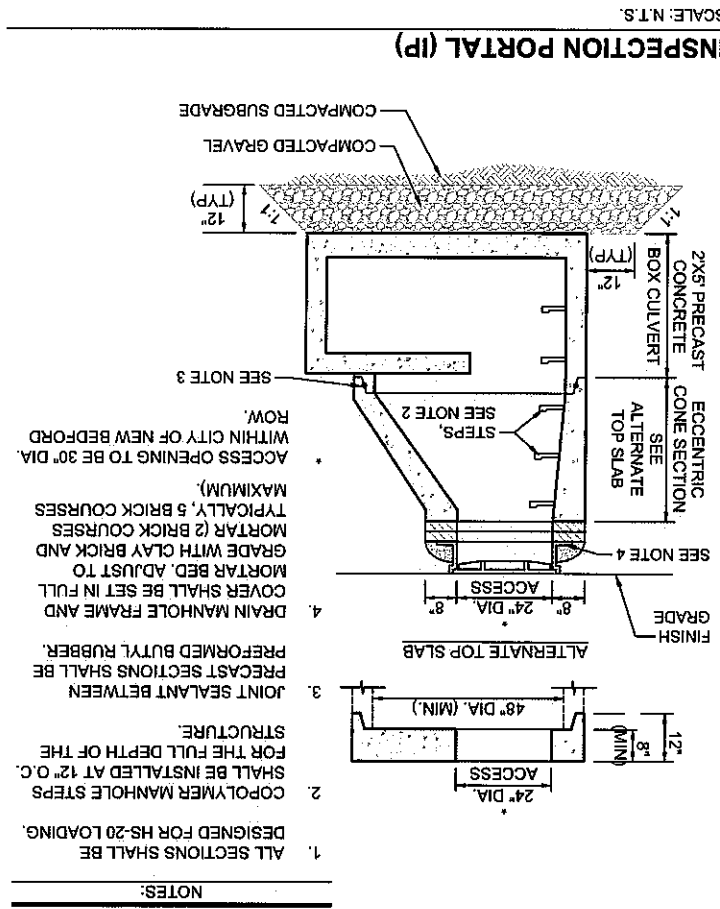
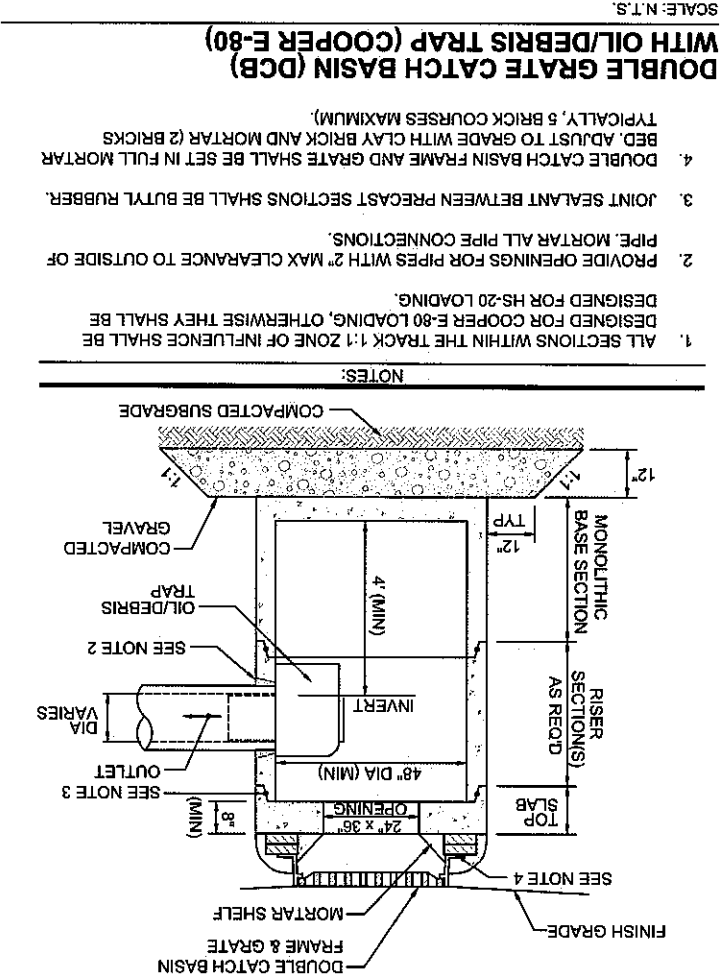
DRAINAGE STRUCTURE TABLE

DRAINAGE STRUCTURE TABLE					
NAME	RIM	INCOMING PIPES	OUTGOING PIPES	NORTHING	EASTING
DMH-1	8.40	=3.90' (DMH-2) =3.90' (CB-1)	=3.90' (WOS-1)	2697449.1755	812830.0027
DMH-2	12.50	=7.60' (CB-2) =5.60' (DMH-3)	=5.60' (DMH-1)	2697340.0524	812900.0478
DMH-3	15.35	=7.00' (DMH-4) =7.84' (CB-3)	=7.00' (DMH-2)	2697209.2681	812984.4411
DMH-4	16.25	=10.52' (ROOF LEADERS) =7.56' (CB-4)	=7.56' (DMH-3)	2697221.9910	813067.6885
DMH-5	14.03	=8.17' (DMH-6) =9.12' (CB-5)	=8.17' (CB-4) WEIR =10.09'	2697398.0932	813082.4389
DMH-6	13.64	=8.30' (DMH-7) =8.39' (CO-9)	=8.30' (DMH-5)	2697407.7967	813144.8436
DMH-7	13.64	=8.41' (CO-10) =9.24' (DMH-8)	=8.41' (DMH-6)	2697415.0182	813191.2865
DMH-8	14.00	=9.80' (FES-2)	=9.80' (DMH-7)	2697424.3156	813251.0807
DMH-9	14.03	=8.56' (WQI-3) =9.40' (CB-6) =9.40' (DMH-10)	=8.56' (DMH-11)	2697312.1075	813230.2717
DMH-10	14.00	=9.73' (SCB-9) =8.52' (DMH-9)	=8.81' (WQI-3) =9.48' (DMH-9)	2697299.7676	813232.4104
DMH-11	14.00	=8.52' (DMH-9) =9.35' (CO-4) =5.52' (DMH-12)	=8.52' (CO-10)	2697308.4205	813207.8617
DMH-12	14.02	=9.40' (CB-17) =9.40' (DMH-13) =8.56' (WQI-2)	=8.56' (DMH-11)	2697305.5467	813189.3803
DMH-13	14.00	=9.73' (SCB-12) =8.51' (CO-8)	=9.48' (DMH-12) =8.81' (WQI-2)	2697293.0719	813191.0313
DMH-14	14.02	=8.51' (CO-8) =9.40' (CB-18)	=8.51' (CO-9)	2697301.1991	813161.4198
DMH-15	14.03	=9.40' (CB-18) =8.56' (WQI-1) =9.40' (DMH-16)	=8.56' (DMH-14)	2697297.8263	813139.7294
DMH-16	14.00	=9.73' (SCB-15) =10.35' (DP CO-1) =10.35' (DP CO-2)	=8.81' (WQI-1) =9.48' (DMH-15)	2697285.2989	813141.3504
DMH-17	13.49	=10.35' (DP CO-1) =9.29' (CO-17)	=10.35' (OWS-1)	2696523.8418	813376.9756
DMH-18	12.85	=9.28' (OWS-1) =9.06' (DMH-18)	=9.29' (DMH-19)	2696109.8473	813338.7575
DMH-19	14.03			2695926.1115	813321.5960

DRAINAGE STRUCTURE TABLE					
NAME	RIM	INCOMING PIPES	OUTGOING PIPES	NORTHING	EASTING
CO-2	14.03	I=10.37' (CO-3)		2696628.2275	813313.6286
CO-3	14.03	I=10.18' (CO-2)		2696760.0646	813293.1275
CO-4	14.03	I=9.76' (CO-3)	I=9.76' (DMH-11)	2697036.7398	813250.1063
CO-6	14.03		I=10.36' (CO-7)	2696621.0059	813267.1854
CO-7	14.03	I=10.18' (CO-6)	I=10.18' (CO-8)	2696762.8417	813246.6858
CO-8	14.03	I=9.76' (CO-7)	I=9.76' (DMH-14)	2697029.5170	813203.6646
CO-9	14.03	I=8.42' (DMH-14)	I=8.42' (DMH-6)	2697386.5053	813148.2773
CO-10	14.03	I=8.44' (DMH-11)	I=8.44' (DMH-7)	2697390.5648	813195.0888
CO-11	14.03		I=11.43' (CO-12)	2697376.8151	813098.5551
CO-12	14.00	I=11.01' (CO-11)	I=11.01' (DITCH)	2697103.1701	813141.1052
CO-13	15.13		I=11.00' (CO-14)	2696436.6263	813307.0991
CO-14	15.00	I=10.30' (CO-13)	I=10.30' (CO-15)	2696306.3120	813308.5651
CO-15	15.00	I=9.98' (CO-14)	I=9.98' (CO-16)	2696239.2546	813310.3489
CO-16	15.00	I=9.76' (CO-15)	I=9.76' (CO-17)	2696190.1451	813308.2349
CO-17	16.00	I=9.38' (CO-16)	I=9.38' (DMH-18)	2696110.1887	813312.6843
DP CO-2	14.03		I=10.68' (DMH-17)	2696503.5644	813246.6970

DRAINAGE STRUCTURE TABLE					
NAME	RIM	INCOMING PIPES	OUTGOING PIPES	NORTHING	EASTING
CO-2	14.03	I=10.37' (CO-3)		2696628.2275	813313.6286
CO-3	14.03	I=10.18' (CO-2)		2696760.0646	813293.1275
CO-4	14.03	I=9.76' (CO-3)	I=9.76' (DMH-11)	2697036.7398	813250.1063
CO-6	14.03		I=10.36' (CO-7)	2696621.0059	813267.1854
CO-7	14.03	I=10.18' (CO-6)	I=10.18' (CO-8)	2696762.8417	813246.6858
CO-8	14.03	I=9.76' (CO-7)	I=9.76' (DMH-14)	2697029.5170	813203.6646
CO-9	14.03	I=8.42' (DMH-14)	I=8.42' (DMH-6)	2697386.5053	813148.2773
CO-10	14.03	I=8.44' (DMH-11)	I=8.44' (DMH-7)	2697390.5648	813195.0888
CO-11	14.03		I=11.43' (CO-12)	2697376.8151	813098.5551
CO-12	14.00	I=11.01' (CO-11)	I=11.01' (DITCH)	2697103.1701	813141.1052
CO-13	15.13		I=11.00' (CO-14)	2696436.6263	813307.0991
CO-14	15.00	I=10.30' (CO-13)	I=10.30' (CO-15)	2696306.3120	813308.5651
CO-15	15.00	I=9.98' (CO-14)	I=9.98' (CO-16)	2696239.2546	813310.3489
CO-16	15.00	I=9.76' (CO-15)	I=9.76' (CO-17)	2696190.1451	813308.2349
CO-17	16.00	I=9.38' (CO-16)	I=9.38' (DMH-18)	2696110.1887	813312.6843
DP CO-2	14.03		I=10.68' (DMH-17)	2696503.5644	813246.6970

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY SCR MS/NBML COMPUTER RAIL EXPANSION PROJECT CONTRACT NO. K78CN04 NEW BEDFORD MAIN LINE WAMUATA LAYOVER YARD GRADING AND DRAINAGE STRUCTURE TABLES		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY 99 HIGH STREET BOSTON, MA 02110 (617) 728-7777		APPROVED BY: MASSACHUSETTS BAY TRANSPORTATION AUTHORITY VHB HNTB 99 HIGH STREET BOSTON, MA 02110 (617) 728-7777		DATE: 02/12/2021 PROJECT MANAGER DATE: 02/12/2021 PROJECT MANAGER	
DATE: 02/12/2021 PROJECT MANAGER DATE: 02/12/2021 PROJECT MANAGER		DATE: 02/12/2021 PROJECT MANAGER DATE: 02/12/2021 PROJECT MANAGER		DATE: 02/12/2021 PROJECT MANAGER DATE: 02/12/2021 PROJECT MANAGER		DATE: 02/12/2021 PROJECT MANAGER DATE: 02/12/2021 PROJECT MANAGER	



DATE: 09/18/2020
VERT: AS SHOWN
HORIZ: AS SHOWN
PROJECT MANAGER: [Signature]
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
CONTRACT NO. K78CND4
MIDDLEBOROUGH TO NEW BEDFORD, MA
SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
CONFORMED

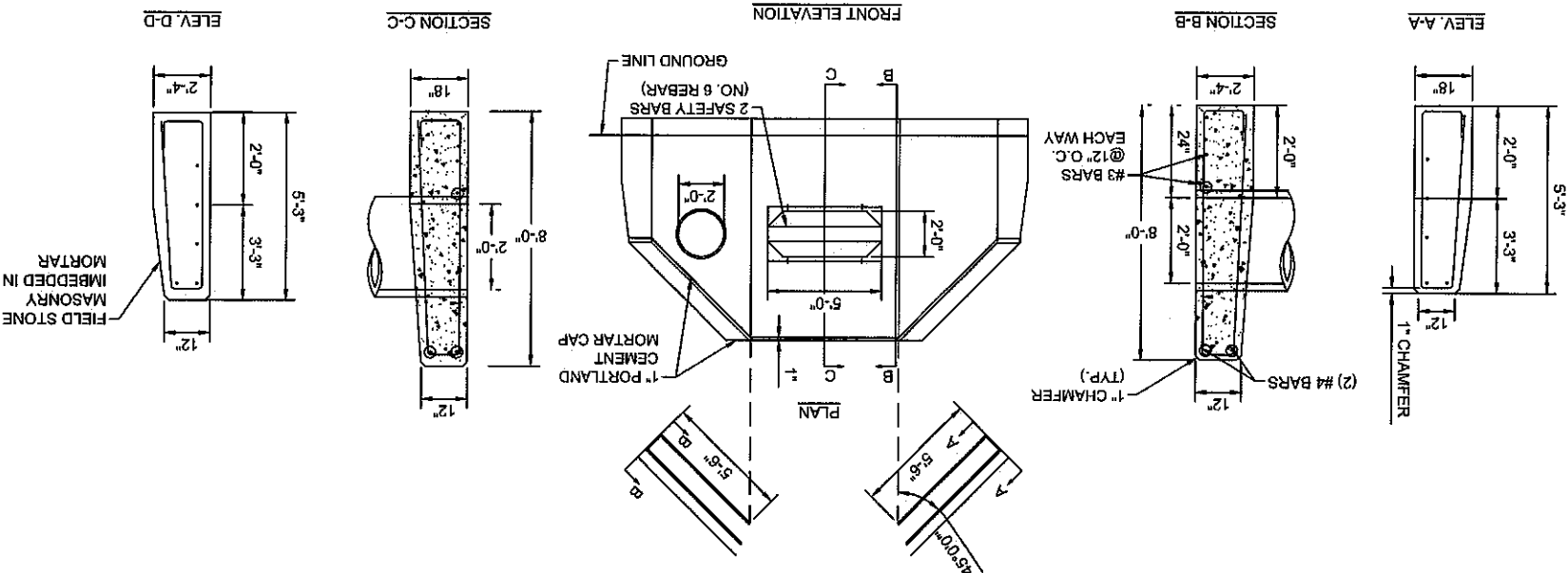
DATE: 09/18/2020
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PROJECT MANAGER: [Signature]
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
CONTRACT NO. K78CND4
MIDDLEBOROUGH TO NEW BEDFORD, MA
SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
CONFORMED

CONCRETE HEADWALL (WAMSUBTUA)

SCALE: N.T.S.

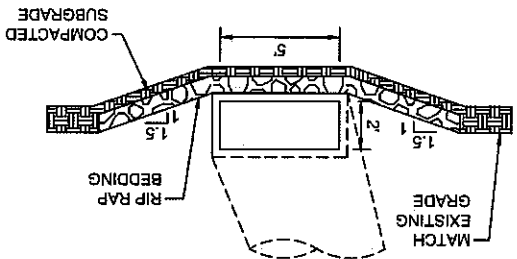
1. CONCRETE SHALL BE 4,000 PSI CEMENT CONCRETE.
2. SEE SHEET CV-322 FOR LOCATION OF HEADWALL.

NOTES:



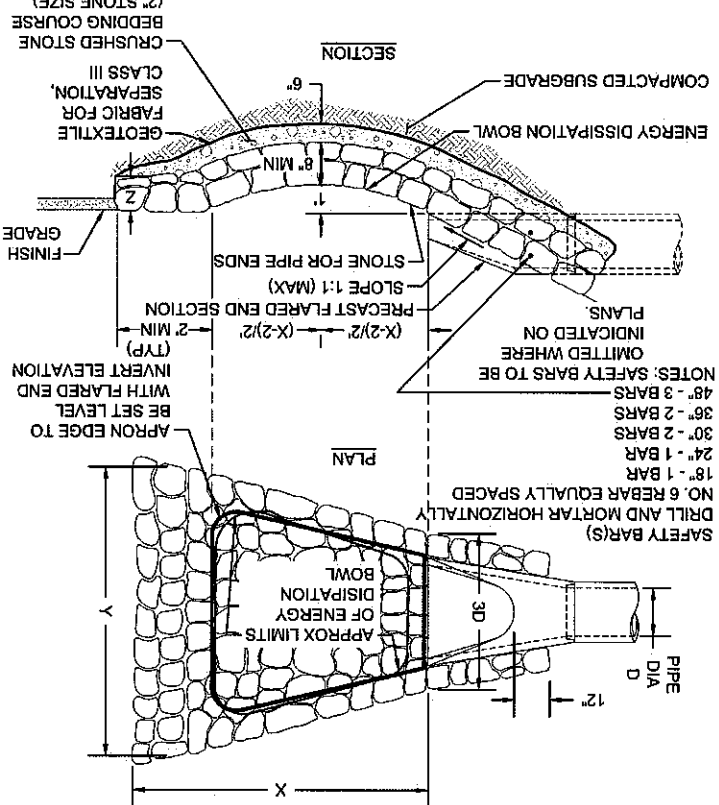
CHANNEL OUTLET SECTION

SCALE: N.T.S.



STONE PROTECTION (F.E./FES) WITH FLARED END SECTION

SCALE: N.T.S.

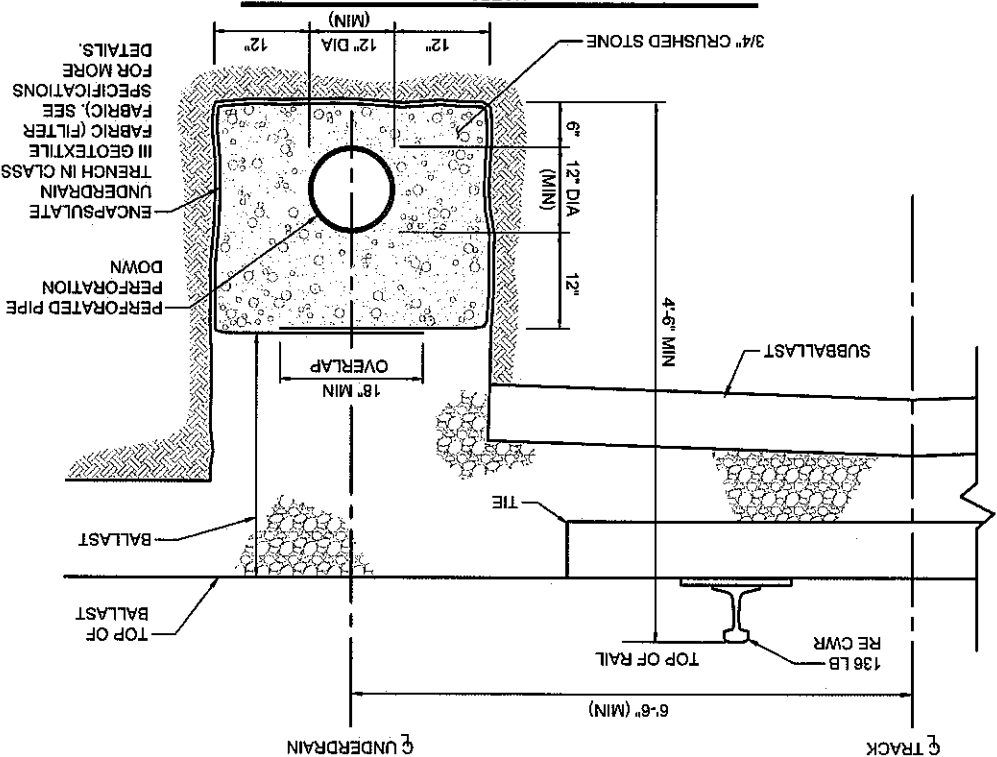


UNDERDRAIN (UD)

SCALE: N.T.S.

1. FOR UNDERDRAINS WITHIN LAYOVER YARD, APPLY FILTER FABRIC INSTALLATION AS SHOWN HERE. ALIGNMENT OF PIPE SHALL BE AS SHOWN ON PLANS.

NOTES:

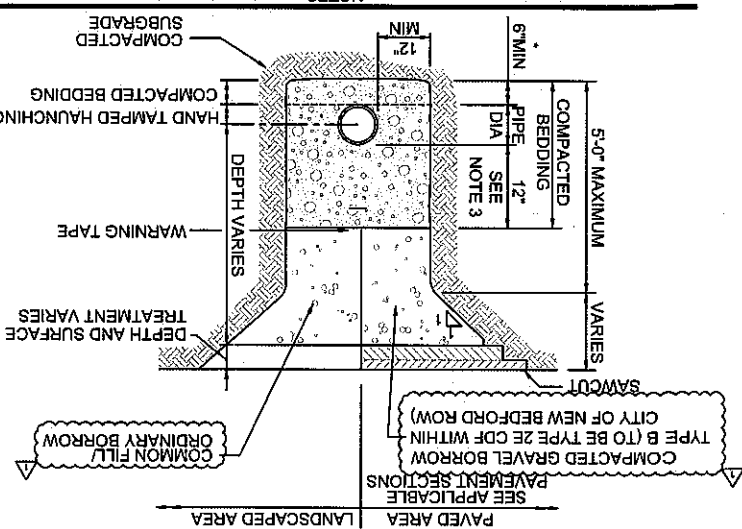


UTILITY TRENCH

SCALE: N.T.S.

1. WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERM OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
2. USE METALLIC TRACING WARNING TAPE OVER ALL PIPES.
3. FOR HOPE PIPE, DIMENSION IS 24 INCHES.
4. UTILITY TRENCH FOR GAS PIPING SHALL COMPLY WITH GAS COMPANY REQUIREMENTS INCLUDING BUT NOT LIMITED TO THE USE OF SAND BEDDING AND WARNING TAPE PLACEMENT.
5. REFER TO SPECIFICATION SECTION 02300-EARTHWORK FOR MORE DETAILS.
6. WHERE TRENCHING OCCURS IN EXISTING PAVED SURFACES, SAWCUT JOINTS SHALL BE STAGGERED IN ACCORDANCE WITH MASSDOT SPECIFICATIONS.
7. JOINTS BETWEEN NEW BITUMINOUS CONCRETE ROADWAY PAVEMENT AND SAWCUT OF EXISTING PAVEMENT SHALL BE SEALED WITH HOT POURED RUBBERIZED ASPHALT SEALER AND BACKSAND.
8. THE PIPE SHALL BE LAID WITH THE MINIMUM COVER REQUIRED BY MUNICIPALITY STANDARDS. IF MUNICIPALITY STANDARDS DO NOT INDICATE A REQUIRED COVER OR DEPTH, THE PIPE SHALL BE LAID WITH A MINIMUM COVER OF 5 FEET BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. IF COVER IS LESS THAN MUNICIPALITY STANDARD, WATER MAIN SHALL BE INSULATED.

NOTES:



DATE: 08/18/2020	VERT: AS SHOWN	HORIZ: AS SHOWN	DATE: 02/19/2021	DESCRIPTION: DCR-013	BY: JT	CHK: KC	APP: KC
DATE: 08/18/2020	VERT: AS SHOWN	HORIZ: AS SHOWN	DATE: 02/19/2021	DESCRIPTION: DCR-013	BY: JT	CHK: KC	APP: KC
DATE: 08/18/2020	VERT: AS SHOWN	HORIZ: AS SHOWN	DATE: 02/19/2021	DESCRIPTION: DCR-013	BY: JT	CHK: KC	APP: KC
DATE: 08/18/2020	VERT: AS SHOWN	HORIZ: AS SHOWN	DATE: 02/19/2021	DESCRIPTION: DCR-013	BY: JT	CHK: KC	APP: KC
DATE: 08/18/2020	VERT: AS SHOWN	HORIZ: AS SHOWN	DATE: 02/19/2021	DESCRIPTION: DCR-013	BY: JT	CHK: KC	APP: KC
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DCR-013

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

CONTRACT NO. K78CNO4

SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT

MIDDLEBOROUGH TO NEW BEDFORD, MA

UTILITY DETAILS 2

WAMSUBTUA LAYOVER YARD

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER

PLAN NO. 312309

SHEET UT-322

ISSUE

1

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The diagram illustrates two types of sewer manhole construction:

- MONOLITHIC SECTION (AS RECD):** This section shows a standard sewer manhole frame. It includes a base section, riser, cone section, and top slab. Key features include:
 - A 48" DIA MANHOLE.
 - STEPS (SEE NOTE 2).
 - OUTLET.
 - GASKET OR SLEEVE.
 - FLEXIBLE WATERTIGHT (SEE NOTE 4).
 - SEE NOTE 3.
 - SEE NOTE 5.
 - FINISH GRADE.
 - ACCESS (8").
 - 30" DIA.
- ECCENTRIC CONE SECTION (SEE ALTERNATE TOP SLAB):** This section shows an alternative design for the top slab. It includes:
 - A 48" DIA MANHOLE.
 - ACCESS (8").
 - 30" DIA.
 - 12" height dimension.

Additional notes and labels include:

- SHEET TO BE SEWER SLOPE OF 1"/FOOT.
- BRICK LAID FLAT AT A COMPACTED GRAVEL.
- ARCH INVERT TO BE CONSTRUCTED WITH SEWER BRICK LAID AS STRETCHERS AND ON EDGE.
- BRICK CHIP AND MORTAR OR CEMENT CONCRETE FILL.
- COURSES MAXIMUM). BRICK COURSES TYPICALLY, 5 BRICK WITH SEWER BRICK AND MORTAR (2) AND COVER SHALL BE SET IN FULL MORTAR BED, ADJUST TO GRADE.
- STANDARD SEWER MANHOLE FRAME.
- BUTYL RUBBER.
- JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PERFORMED WATER-PROOFING MATERIAL.
- EXTERIOR SURFACES SHALL BE GIVEN TWO COATS OF BITUMINOUS FULL DEPTH OF THE STRUCTURE.
- COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE LOADING.
- CONCRETE, DESIGNED FOR HS-20.
- STRUCTURES SHALL BE PRECAST.

[illegible]

NOTES:

- OILWATER SEPARATOR SHALL BE A STANDARD PRECAST SEPTIC TANK WITH PRECAST BAFFLES AS SHOWN OR APPROVED EQUAL.
- STRUCTURE SECTIONS WITHIN THE TRACK 1:1 ZONE OF INFLUENCE SHALL BE DESIGNED FOR COOPER E-80 LOADING.
- SEE PLANS FOR ACTUAL DISPOSITION OF PIPING LAYOUT FOR COORDINATION OF MANHOLE ACCESS AND BAFFLE.
- PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE, MORTAR ALL PIPE CONNECTIONS.
- JOINT SEALANT BETWEEN ALL SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
- STANDARD DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).
- STANDARD BARREL BLOCK AND MORTAR SHALL BE USED TO BRING MANHOLE FRAME AND COVER TO FINISHED GRADE WHEN DEPTH TO TOP OF STRUCTURE EXCEEDS 18 INCHES.
- WHEN CONNECTING TO DISCHARGE PIPE THE HDPE OUTLET TEE AND PIPE SHALL BE SIZED TO FIT SNUGGLY INSIDE THE DISCHARGE PIPE AND THE JOINT SHALL BE SEALED WITH NON-SHRINK CEMENT GROUT.
- GEOMETRY OF PIPING AND LOCATION OF BAFFLES AND MANHOLE ACCESS TO BE CONSISTENT WITH UTILITY PLAN.

DIMENSION TABLE			
TYPE	A	B	
H	4'-1"	3'-7"	
INLET	12"	8"	
OUTLET	12"	8"	

WATER QUALITY INLET TANK

SCALE: N.T.S.

SECTION

1. PARTICLE SEPARATOR SHALL BE A PRECAST TANK WITH PRECAST BAFFLES AS SHOWN.

2. STRUCTURES WITHIN THE TANK 1:1 ZONE OF INFLUENCE SHALL BE DESIGNED FOR COOPER E-80 LOADING.

3. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.

4. JOINT SEALANT BETWEEN ALL SECTIONS SHALL BE PREFORMED BUTYL RUBBER.

5. DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).

6. BARREL BLOCK AND MORTAR SHALL BE USED TO BRING MANHOLE FRAME AND COVER TO FINISHED GRADE WHEN DEPTH TO TOP OF STRUCTURE EXCEEDS 24 INCHES.

PLAN VIEW

1. INLET (SDR 35 PVC TYP.)

2. (MIN.)

3. PROVIDE SUPPORT FOR BAFFLE FROM FLOOR TO STRUCTURE

4. PRECAST BAFFLE WITH 3-12" DIA. OPENINGS

5. 8" OUTLET

6. 8" DIVERSION PIPE

7. DRAIN MANHOLE

8. HIGH FLOW

9. MAIN PIPE (SEE SECTION A-A)

10. DIVERSION WEIR (SEE SECTION A-A)

11. TOP OF DIVERSION WEIR ELEV. = INV. OUT

12. DRAIN MANHOLE

13. HIGH FLOW

14. MAIN PIPE

15. DIVERSION WEIR

16. TOP OF DIVERSION WEIR ELEV. = INV. OUT

17. DRAIN MANHOLE

18. HIGH FLOW

19. MAIN PIPE

20. DIVERSION WEIR

21. TOP OF DIVERSION WEIR ELEV. = INV. OUT

22. DRAIN MANHOLE

23. HIGH FLOW

24. MAIN PIPE

25. DIVERSION WEIR

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28. HIGH FLOW

29. MAIN PIPE

30. DIVERSION WEIR

31. TOP OF DIVERSION WEIR ELEV. = INV. OUT

32. DRAIN MANHOLE

33. HIGH FLOW

34. MAIN PIPE

35. DIVERSION WEIR

36. TOP OF DIVERSION WEIR ELEV. = INV. OUT

37. DRAIN MANHOLE

38. HIGH FLOW

39. MAIN PIPE

40. DIVERSION WEIR

41. TOP OF DIVERSION WEIR ELEV. = INV. OUT

42. DRAIN MANHOLE

43. HIGH FLOW

44. MAIN PIPE

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57. DRAIN MANHOLE

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82. DRAIN MANHOLE

83. HIGH FLOW

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243. HIGH FLOW

244. MAIN PIPE

245. DIVERSION WEIR

246. TOP OF DIVERSION WEIR ELEV. = INV. OUT

247. DRAIN MANHOLE

248. HIGH FLOW

249. MAIN PIPE

250. DIVERSION WEIR

251. TOP OF DIVERSION WEIR E

SECTION

12' TYP

30" INLET

ACCESS

3"

LIQUID LEVEL

1'-0"

6"

30" OUTLET

FINISH GRADE

SEE NOTE 5

SEE NOTE 6

30" DRAIN MANHOLE FRAME & COVER

1. PARTICLE SEPARATOR SHALL BE A PRECAST TANK WITH PRECAST BAFFLES AS SHOWN.

2. STRUCTURES WITHIN THE TRACK 1:1 ZONE OF INFLUENCE SHALL BE DESIGNED FOR COOPER E-80 LOADING.

3. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.

4. JOINT SEALANT BETWEEN ALL SECTIONS SHALL BE PREFORMED BUTYL RUBBER

5. DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)

6. BARREL BLOCK AND MORTAR SHALL BE USED TO BRING DEPTH TO TOP OF STRUCTURE EXCEEDS 24 INCHES.

COMPACTED GRAVEL

7:1

12"

7:1

COMPACTED SUBGRADE

WQ1 3	4,000 GALLONS	2,800 GALLONS
WQ1 2	3,000 GALLONS	1,600 GALLONS
WQ1 1	3,000 GALLONS	1,500 GALLONS
OVERALL		FIRST CHAMBER