



PERMIT NO.
24969

CITY OF NEW BEDFORD
SEWER AND/OR STORM DRAIN PERMIT

DATE 9-28-2022
Expire date: 9-28-2021

This certifies that permission is granted to

MBTA 10 Park Plaza #3830 Boston MA 02116 617-716-9368
Property Owner Address Tel.

To connect a sewer and/or storm drain located at Wamsutter St 106 ft west of a street ave
Assessor's Plot 72 Lot 3.15 to the sewer and/or storm drain in Wamsutter St Street

Connecting into DWH of 2x5' concrete box culvert drainage main

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 Sebastian Pacheco - Sr. Engineer Tel. 617-352-8075

Mailing Address 100 Wamsutter St, Wamsutter, MA 02116

The Bonded Contractor/Drain Layer authorized to perform this work is:

S.E.P. Contractors 100 Wamsutter St, Wamsutter, MA 02116 617-352-8075

Name S.E.P. Contractors Address 100 Wamsutter St, Wamsutter, MA 02116 Tel. 617-352-8075

Type of Pipe Required: 18" RCP

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 \$....., plus an Entrance Fee of \$..... where applicable, must accompany this application.

Bank# Waived Check# 24969 Date

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

Sebastian Pacheco City Engineer
Asst. City Engineer
Signature of Property Owner or Representative

INSPECTOR'S REPORT

INSPECTED BY: _____

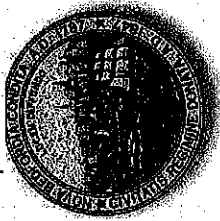
DATE: _____

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

72 138, 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

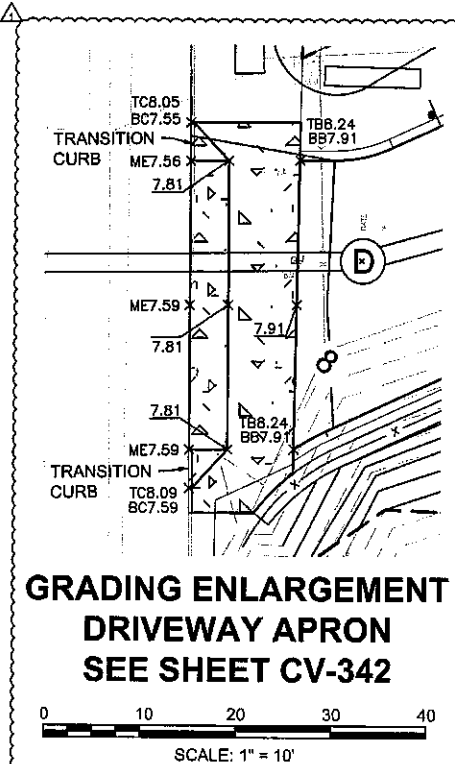
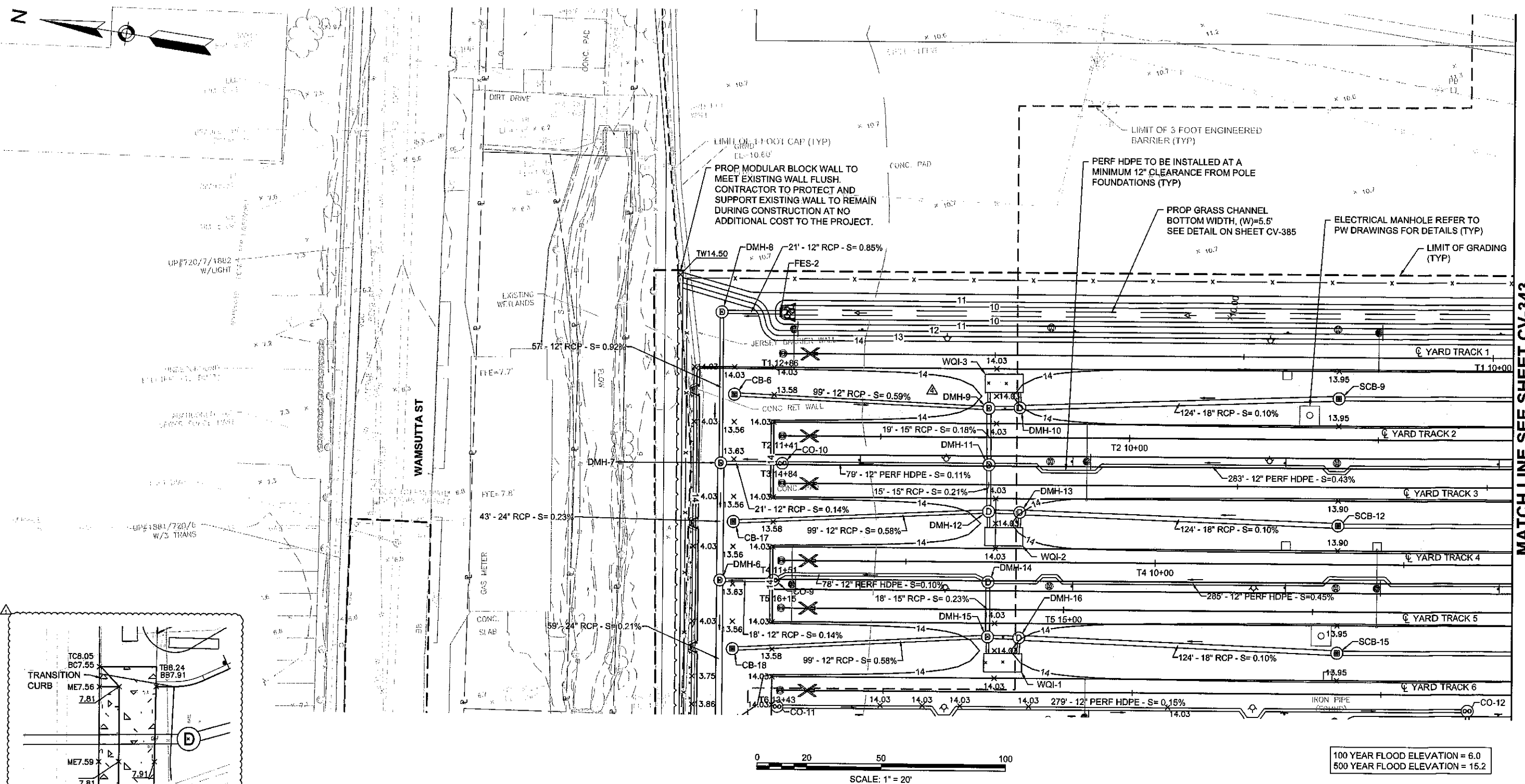
I further agree to conform to, and abide by, All City rules and ask regulations applicable to the permit (s) being applied for:

DocuSigned by:
Name Kimberly M. Dobosz Signature
8458995856C406

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



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-346
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 WAMSUTTA GEOTECHNICAL REPORT DATED MAY 1, 2019.
9. ALL PROPOSED RCP SHALL BE CLASS V.

DCR-013

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT
MIDDLEBOROUGH TO NEW BEDFORD, MA
CONTRACT NO. K78CN04

**NEW BEDFORD MAIN LINE
WAMSUTTA LAYOVER YARD
GRADING AND DRAINAGE PLAN 1**

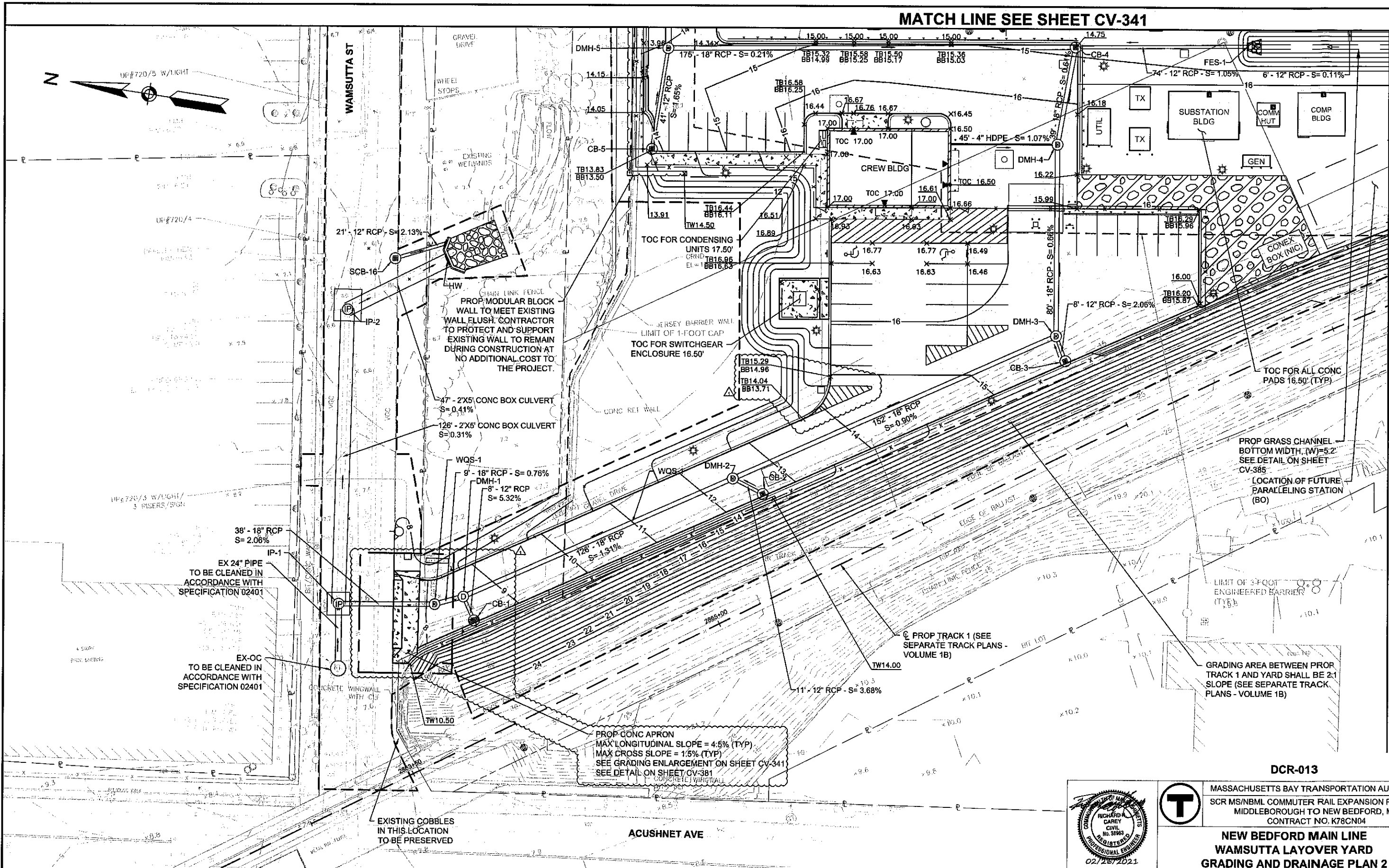
Vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION
AUTHORITY

APPROVED BY:

DATE	DESCRIPTION	BY	CHK	APP.	PROJECT MANAGER	DATE	PROJECT MANAGER	DATE
02/19/2021	DCR-013	JT	WR	KC	HORIZ: AS SHOWN	08/18/2020	PLAN NO. 312266	ISSUE 1
					VERT: AS SHOWN			
					DATE: 08/18/2020		SHEET CV-341	

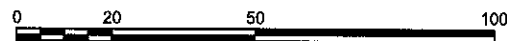
MATCH LINE SEE SHEET CV-343



NOTES:

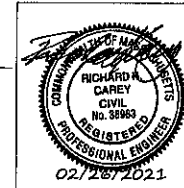
1. TOP OF BALLAST ELEV. IN YARD = 14.03 (UNLESS OTHERWISE NOTED)
2. TOP OF RAIL ELEV. IN YARD = 14.70 (UNLESS OTHERWISE NOTED)
3. GRASS CHANNEL SIDE SLOPES ARE 2:1, SEE TYPICAL SECTIONS
4. FOR DRAINAGE STRUCTURE TABLE SEE SHEET CV-346
5. REFER TO PW, CM AND UTILITY PLANS FOR ALL OTHER UTILITY INFORMATION
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 WAMSUTTA 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'

100 YEAR FLOOD ELEVATION = 6.0
500 YEAR FLOOD ELEVATION = 15.2



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT
MIDDLEBOROUGH TO NEW BEDFORD, MA
CONTRACT NO. K78CN04

**NEW BEDFORD MAIN LINE
WAMSUTTA LAYOVER YARD
GRADING AND DRAINAGE PLAN 2**

vhb HNTB
88 HIGH STREET
BOSTON, MA 02110
(617) 728-1777

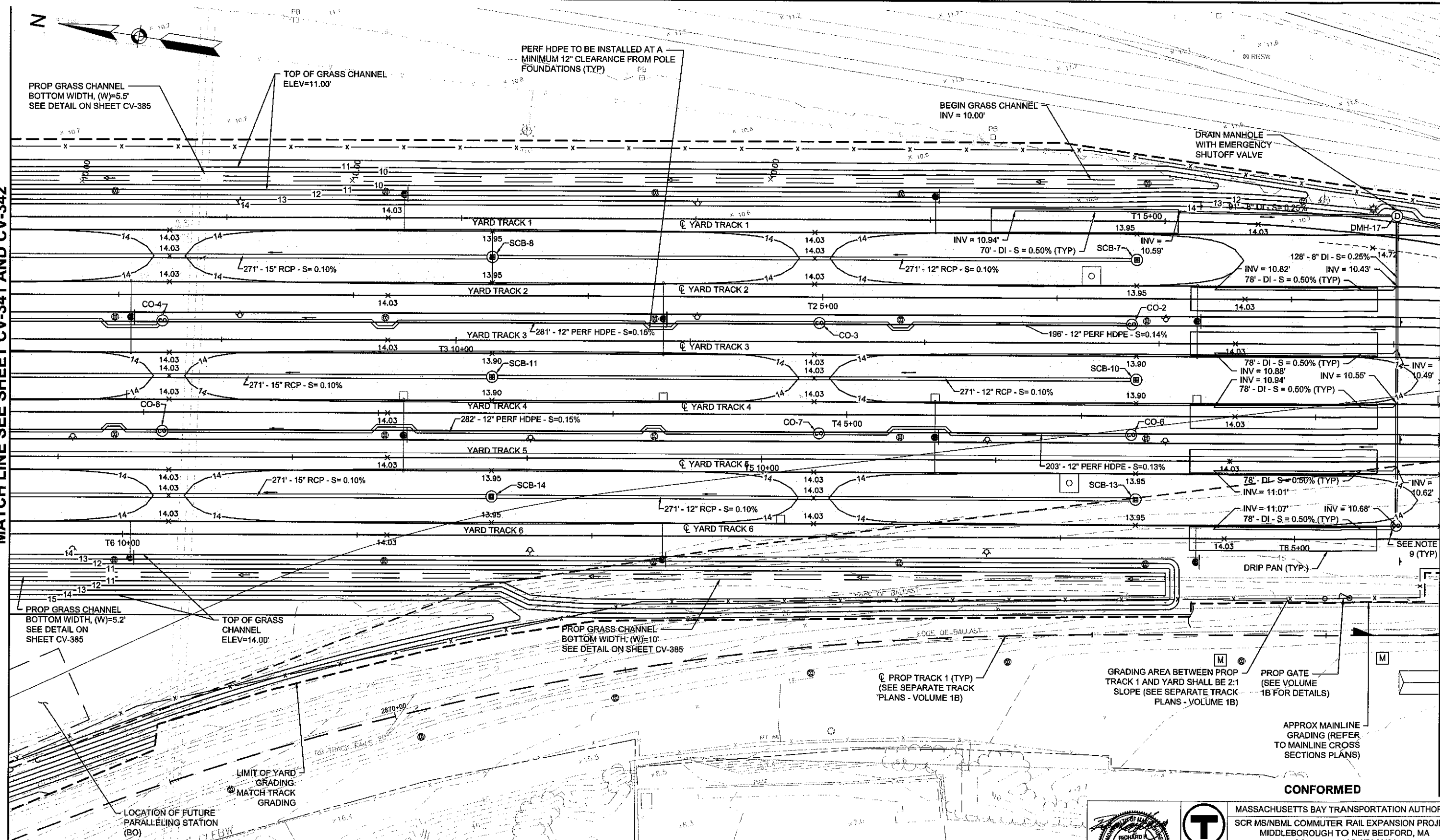
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

DATE	DESCRIPTION	BY	CHKD.	APP.	PROJECT MANAGER	DATE	PROJECT MANAGER	DATE	ISSUE
02/19/2021	DCR-013	JT	WR	KC					
					HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY	
					VERT: AS SHOWN	MC	MC	WR	
					DATE: 09/18/2020				
					PLAN NO. 312267				
					SHEET CV-342				1

MATCH LINE SEE SHEET CV-343

MATCH LINE SEE SHEET CV-341 AND CV-342



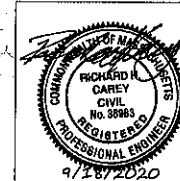
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2. TOP OF RAIL ELEV. IN YARD = 14.70 (UNLESS OTHERWISE NOTED)
3. GRASS CHANNEL SIDE SLOPES ARE 2:1. SEE TYPICAL SECTIONS
4. FOR DRAINAGE STRUCTURE TABLE SEE SHEET CV-346
5. REFER TO PW, CM AND UTILITY PLANS FOR ALL OTHER UTILITY INFORMATION
6. FLOOD 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

100 YEAR FLOOD ELEVATION = 6.0
500 YEAR FLOOD ELEVATION = 15.2

8. CONTRACTOR SHALL PLACE FILL IN CONFORMANCE WITH REQUIREMENTS STATED IN FINAL WAMSUTTA GEOTECHNICAL REPORT DATED MAY 1, 2019.
9. CONTRACTOR SHALL CONNECT OIL DRIP PANS TO DUCTILE IRON PIPES IN CONFORMANCE WITH MANUFACTURER RECOMMENDATIONS AND AS APPROVED BY THE ENGINEER. SEE DETAILS ON SHEET CV-384 FOR MORE INFORMATION.
10. ALL PROPOSED RCP SHALL BE CLASS V.

0 20 50 100
SCALE: 1" = 20'



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT
MIDDLEBOROUGH TO NEW BEDFORD, MA
CONTRACT NO. K78CN04

**NEW BEDFORD MAIN LINE
WAMSUTTA LAYOVER YARD
GRADING AND DRAINAGE PLAN 3**

vhb HNTB
69 HIGH STREET
BOSTON, MA 02110
(617) 729-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

PROJECT MANAGER
DATE

APPROVED BY:
PROJECT MANAGER
DATE

HORIZ: AS SHOWN
VERT: AS SHOWN
DATE: 09/18/2020

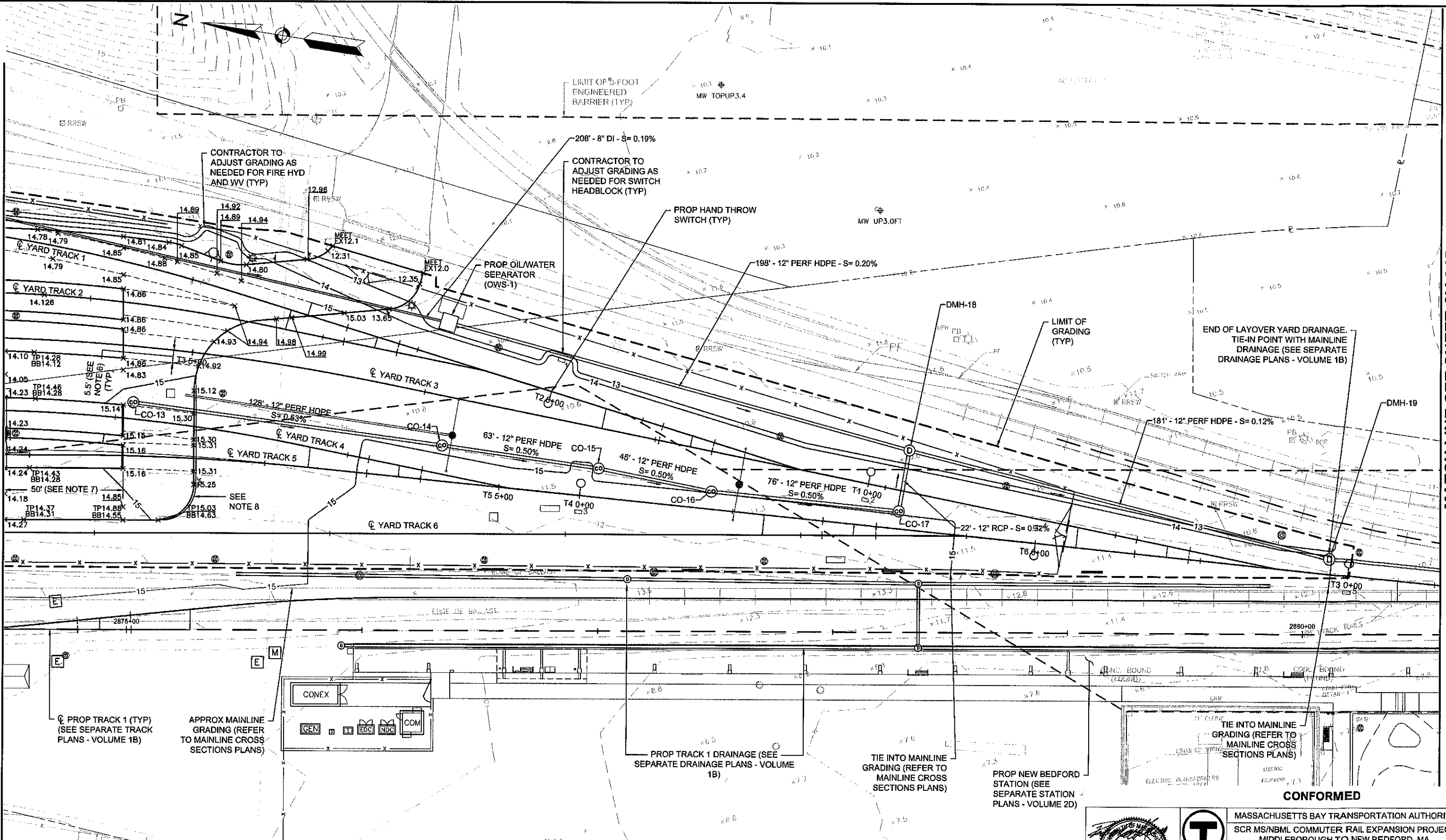
DES. BY: MC
DRA. BY: MC
CHK. BY: WR

PLAN NO. 312268
SHEET CV-343

MATCH LINE SEE SHEET CV-344

MATCH LINE SEE SHEET CV-343

MATCH LINE SEE SHEET CV-345

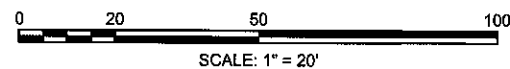


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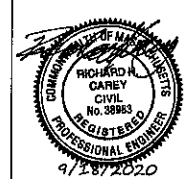
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2. TOP OF RAIL ELEV. IN YARD = 14.70 (UNLESS OTHERWISE NOTED)
3. GRASS CHANNEL SIDE SLOPES ARE 2:1, SEE TYPICAL SECTIONS
4. FOR DRAINAGE STRUCTURE TABLE SEE SHEET CV-346
5. REFER TO PW, CM AND UTILITY PLANS FOR ALL OTHER UTILITY INFORMATION
6. WHERE A TRACK CROSSES ACCESS ROAD, A MINIMUM OF 5.5' ON EITHER SIDE OF CENTERLINE OF TRACK SHALL BE GRADED TO THE SAME GRADE AS THE TOP OF RAIL
7. 50' TRANSITION FROM GRADE CROSSING, WHERE PAVEMENT IS AT THE SAME GRADE AS TOP OF RAIL, TO PAVEMENT 7" BELOW TOP OF RAIL
8. GRADE 3:1 FROM TOP OF ACCESS ROAD TO TOP OF BALLAST
9. FLOOD INFORMATION SHOWN OBTAINED FROM FEMA FLOOD INSURANCE STUDY FOR BRISTOL COUNTY, MASSACHUSETTS (ALL JURISDICTIONS) VOLUME 1 OF 4 DATED JULY 2015

10. CONTRACTOR SHALL PRELOAD FILL AREAS IN ACCORDANCE WITH EARTHWORK SPECIFICATION 02300
11. CONTRACTOR SHALL PLACE FILL IN CONFORMANCE WITH REQUIREMENTS STATED IN FINAL WAMSUTTA GEOTECHNICAL REPORT DATED MAY 1, 2019.
12. ALL PROPOSED RCP SHALL BE CLASS V.

100 YEAR FLOOD ELEVATION = 6.0
500 YEAR FLOOD ELEVATION = 15.2



CONFORMED



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT
MIDDLEBOROUGH TO NEW BEDFORD, MA
CONTRACT NO. K78CN04

**NEW BEDFORD MAIN LINE
WAMSUTTA LAYOVER YARD
GRADING AND DRAINAGE PLAN 4**

99 HIGHL STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER
Date

PROJECT MANAGER Date

HORIZ: AS SHOWN

DES BY

CHK BY

DATE

VERT: AS SHOWN

MC

MC

WR

DATE: 09/18/2020

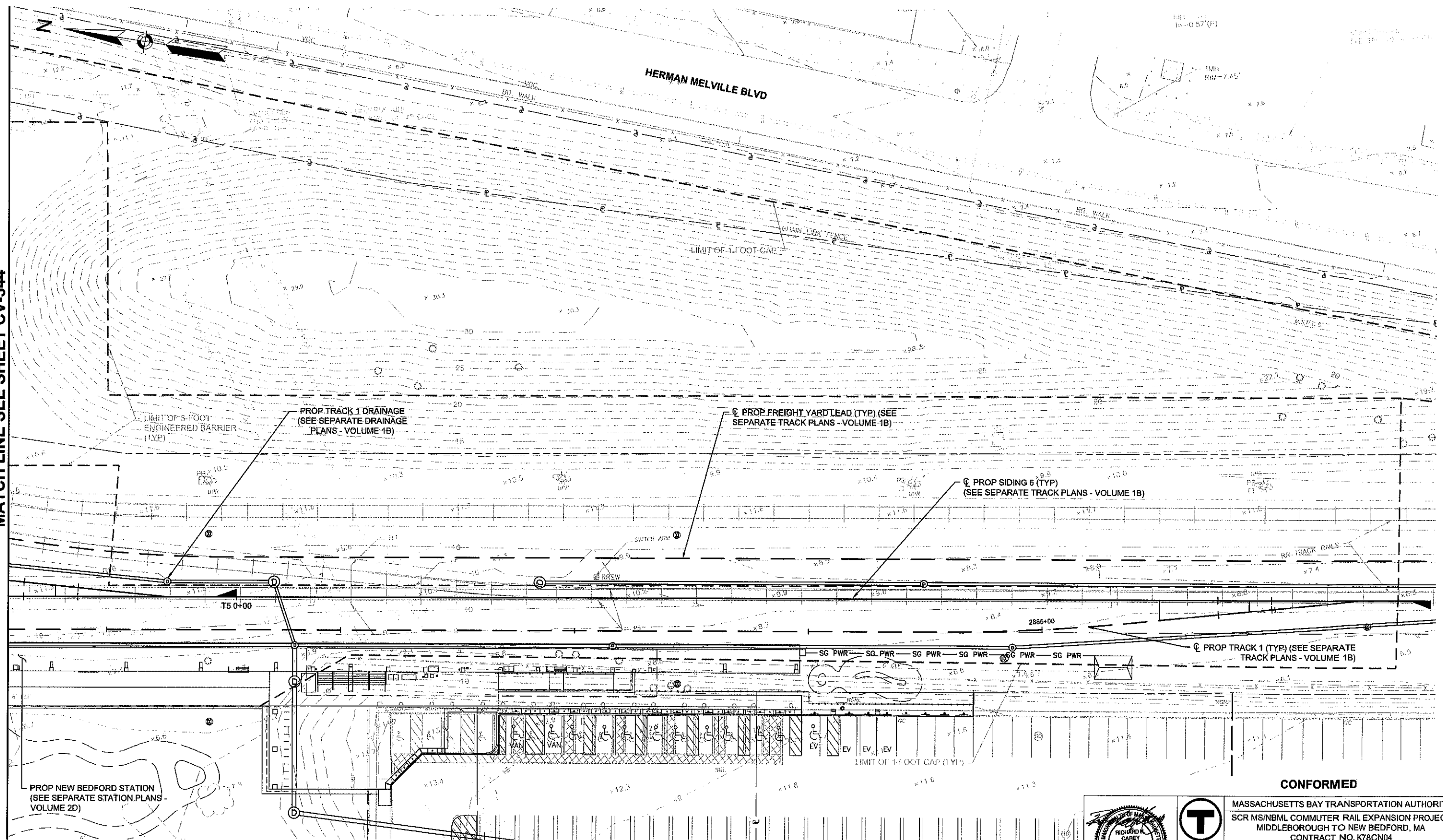
PLAN NO. 312269

SHEET CV-344

ISSUE

0

MATCH LINE SEE SHEET CV-344



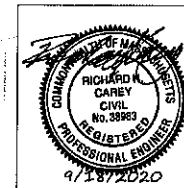
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4. FOR DRAINAGE STRUCTURE TABLE SEE SHEET CV-346
5. REFER TO PW, CM AND UTILITY PLANS FOR ALL OTHER UTILITY INFORMATION
6. FLOOD INFORMATION SHOWN OBTAINED FROM FEMA FLOOD INSURANCE STUDY FOR BRISTOL COUNTY, MASSACHUSETTS (ALL JURISDICTIONS) VOLUME 1 OF 4 DATED JULY 2015
7. CONTRACTOR SHALL PLACE FILL IN CONFORMANCE WITH REQUIREMENTS STATED IN FINAL WAMSUTTA GEOTECHNICAL REPORT DATED MAY 1, 2019.
8. ALL PROPOSED RCP SHALL BE CLASS V.

100 YEAR FLOOD ELEVATION = 6.0
500 YEAR FLOOD ELEVATION = 15.2

0 20 50 100
SCALE: 1" = 20'

CONFORMED



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT
MIDDLEBOROUGH TO NEW BEDFORD, MA
CONTRACT NO. K78CN04

**NEW BEDFORD MAIN LINE
WAMSUTTA LAYOVER YARD
GRADING AND DRAINAGE PLAN 5**

99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION
AUTHORITY

APPROVED BY:

Richard Carey
PROJECT MANAGER

PROJECT MANAGER

HORIZ: AS SHOWN

DES. BY: MC

DATE: 09/18/2020

DATE: 09/18/2020

DATE: 09/18/2020

PLAN NO. 312270

SHEET CV-345

ISSUE

0

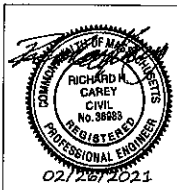
DRAINAGE STRUCTURE TABLE					
NAME	RIM	INCOMING PIPES	OUTGOING PIPES	NORTHING	EASTING
CB-1	8.52		I=4.30' (DMH-1)	2697442.8984	812820.3512
CB-2	12.50		I=8.00' (DMH-2)	2697325.9377	812895.3580
CB-3	15.30		I=8.00' (DMH-3)	2697203.4516	812974.2113
CB-4	14.76	I=10.20' (FES-1) I=7.80' (DMH-5)	I=7.80' (DMH-4)	2697220.9388	813111.1302
CB-5	13.52		I=9.80' (DMH-5)	2697398.1931	813037.5248
CB-6	13.50		I=10.00' (DMH-9)	2697414.0559	813219.2676
CB-17	13.50		I=10.00' (DMH-12)	2697406.2896	813168.8577
CB-18	13.50		I=10.00' (DMH-15)	2697398.3755	813118.4754
SCB-7	13.40		I=10.40' (SCB-8)	2696630.5064	813341.1034
SCB-8	13.40	I=10.13' (SCB-7)	I=10.13' (SCB-9)	2696902.2409	813298.8504
SCB-9	13.40	I=9.86' (SCB-8)	I=9.86' (DMH-10)	2697173.9755	813256.5972
SCB-10	13.40		I=10.40' (SCB-11)	2696622.6691	813290.7100
SCB-11	13.40	I=10.13' (SCB-10)	I=10.13' (SCB-12)	2696894.4036	813248.4562
SCB-12	13.40	I=9.86' (SCB-11)	I=9.86' (DMH-13)	2697166.1392	813206.2099
SCB-13	13.40		I=10.40' (SCB-14)	2696614.8311	813240.3158
SCB-14	13.40	I=10.13' (SCB-13)	I=10.13' (SCB-15)	2696886.5661	813198.0620
SCB-15	13.40	I=9.86' (SCB-14)	I=9.86' (DMH-16)	2697158.3007	813155.8088
SCB-16	5.86		I=2.49' (HW-2)	2697502.2483	812972.2904

DRAINAGE STRUCTURE TABLE					
NAME	RIM	INCOMING PIPES	OUTGOING PIPES	NORTHING	EASTING
DMH-1	8.40	I=3.90' (DMH-2) I=3.90' (CB-1)	I=3.90' (WQS-1)	2697449.1755	812830.0027
DMH-2	12.60	I=7.60' (CB-2) I=5.60' (DMH-3)	I=5.60' (DMH-1)	2697340.0524	812900.0478
DMH-3	15.35	I=7.00' (DMH-4) I=7.84' (CB-3)	I=7.00' (DMH-2)	2697209.2681	812984.4411
DMH-4	16.25	I=10.52' (ROOF LEADERS) I=7.56' (CB-4)	I=7.56' (DMH-3)	2697221.9910	813067.6885
DMH-5	14.03	I=8.17' (DMH-6) I=9.12' (CB-5)	I=8.17' (CB-4) WEIR I=10.09'	2697398.0932	813082.4389
DMH-6	13.64	I=8.30' (DMH-7) I=8.39' (CO-9)	I=8.30' (DMH-5)	2697407.7967	813144.8436
DMH-7	13.64	I=8.41' (CO-10) I=9.24' (DMH-8)	I=8.41' (DMH-6)	2697415.0182	813191.2865
DMH-8	14.00	I=9.80' (FES-2)	I=9.80' (DMH-7)	2697424.3158	813251.0807
DMH-9	14.03	I=8.56' (WQI-3) I=9.40' (CB-6) I=9.40' (DMH-10)	I=8.56' (DMH-11)	2697312.1075	813230.2717
DMH-10	14.00	I=9.73' (SCB-9)	I=8.81' (WQI-3) I=9.48' (DMH-9)	2697299.7676	813232.4104
DMH-11	14.00	I=8.52' (DMH-9) I=9.35' (CO-4) I=8.52' (DMH-12)	I=8.52' (CO-10)	2697308.4205	813207.8617
DMH-12	14.02	I=9.40' (CB-17) I=9.40' (DMH-13) I=8.56' (WQI-2)	I=8.56' (DMH-11)	2697305.5467	813189.3803
DMH-13	14.00	I=9.73' (SCB-12)	I=9.48' (DMH-12) I=8.81' (WQI-2)	2697293.0719	813191.0313
DMH-14	14.02	I=8.51' (CO-8) I=8.51' (DMH-15)	I=8.51' (CO-9)	2697301.1991	813161.4198
DMH-15	14.03	I=9.40' (CB-18) I=8.56' (WQI-1) I=9.40' (DMH-16)	I=8.56' (DMH-14)	2697297.8263	813139.7294
DMH-16	14.00	I=9.73' (SCB-15)	I=8.81' (WQI-1) I=9.48' (DMH-15)	2697285.2989	813141.3504
DMH-17	13.49	I=10.35' (DP CO-1) I=10.35' (DP CO-2)	I=10.35' (OWS-1)	2696523.8418	813376.9756
DMH-18	12.85	I=9.29' (CO-17) I=9.28' (OWS-1)	I=9.29' (DMH-19)	2696109.8473	813338.7575
DMH-19	14.03	I=9.06' (DMH-18)		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)	I=10.18' (CO-4)	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)	2696752.8417	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)	2696438.6263	813307.0991
CO-14	15.00	I=10.30' (CO-13)	I=10.30' (CO-15)	2696306.3120	813309.5651
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	15.00	I=9.38' (CO-16)	I=9.38' (DMH-18)	2696110.1887	813312.5843
DP CO-2	14.03		I=10.68' (DMH-17)	2696503.5844	813246.6970

DRAINAGE STRUCTURE TABLE					
NAME	RIM	INCOMING PIPES	OUTGOING PIPES	NORTHING	EASTING
EX-OC	7.70		I=2.70' (IP-1)	2697498.5809	812790.1455
FES-1	12.67		I=11.00' (CB-4)	2697146.1125	813123.4998
FES-2	11.67		I=10.00' (DMH-8)	2697401.0926	813254.6876
HW	5.00	I=2.00 (IP-2) I=2.00 (SCB-16)		2697479.5041	812975.1449
IP-1	7.70	I=2.93' (WQS-1) I=2.60' (EX-OC)	I=2.60' (IP-2)	2697502.9465	812818.2161
IP-2	6.20	I=2.20' (IP-1)	I=2.20' (HW)	2697519.4900	812946.8301
OWS-1	12.80	I=9.94' (DMH-17)	I=9.68' (DMH-18)	2696311.6734	813361.4011
WQI-1	13.70	I=8.81' (DMH-16)	I=8.56' (DMH-15)	2697284.1822	813131.5418
WQI-2	13.37	I=8.81' (DMH-13)	I=8.56' (DMH-12)	2697291.9258	813181.4466
WQI-3	13.37	I=8.81' (DMH-10)	I=8.56' (DMH-9)	2697301.5755	813241.8131
WQS-1	8.03	I=3.80' (DMH-1)	I=3.80' (IP-1)	2697461.1777	812824.7121

DCR-013

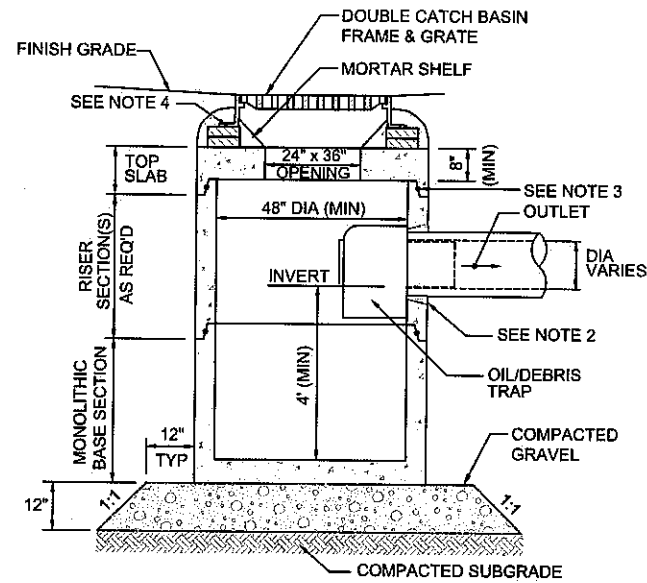


MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT
MIDDLEBOROUGH TO NEW BEDFORD, MA
CONTRACT NO. K78CN04

**NEW BEDFORD MAIN LINE
WAMsutta LAYOVER YARD
GRADING AND DRAINAGE STRUCTURE TABLES**

		99 HIGH STREET BOSTON, MA 02110 (617) 728-7777		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
APPROVED BY:		APPROVED BY:		DATE	
PROJECT MANAGER		DATE		PROJECT MANAGER	
HORIZ: AS SHOWN		DES. BY	CHK. BY	PLAN NO. 312271	
VERT: AS SHOWN		MC	MC	WR	ISSUE
DATE: 09/18/2020				SHEET CV-346	

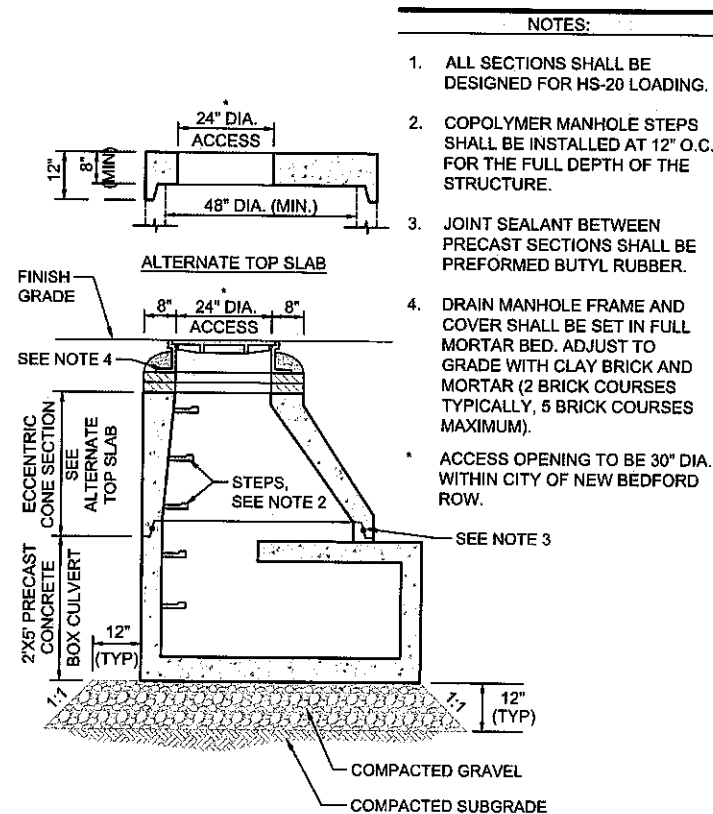
1



- NOTES:**
1. ALL SECTIONS WITHIN THE TRACK 1:1 ZONE OF INFLUENCE SHALL BE DESIGNED FOR COOPER E-80 LOADING, OTHERWISE THEY SHALL BE DESIGNED FOR HS-20 LOADING.
 2. PROVIDE OPENINGS FOR PIPES WITH 2" MAX CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
 3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
 4. DOUBLE CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICKS COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).

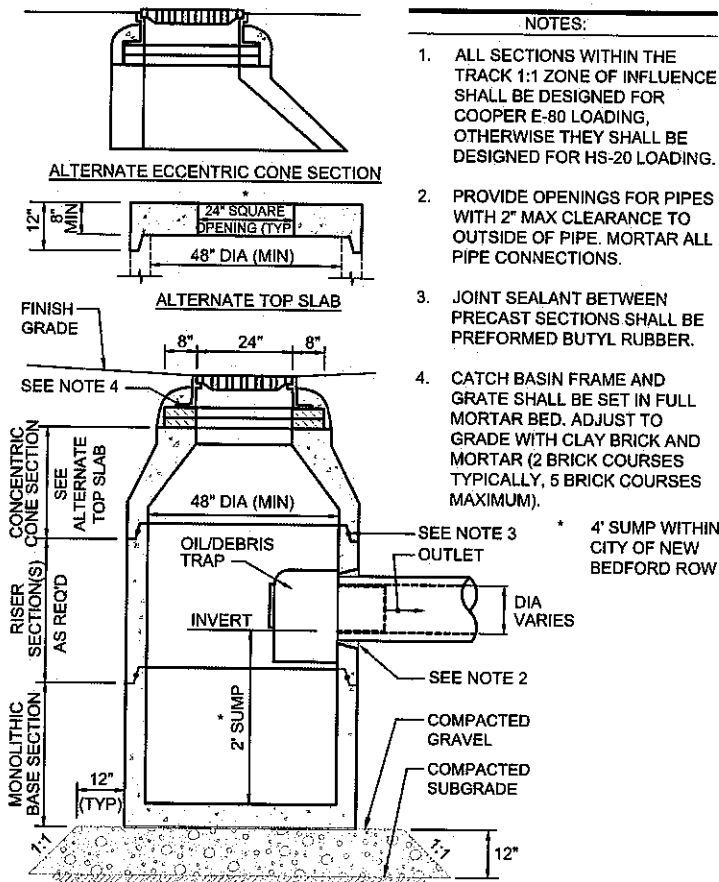
DOUBLE GRATE CATCH BASIN (DCB) WITH OIL/DEBRIS TRAP (COOPER E-80)

SCALE: N.T.S.



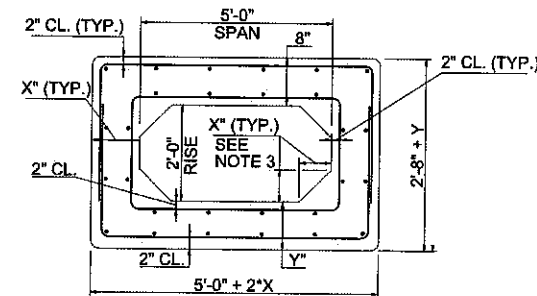
INSPECTION PORTAL (IP)

SCALE: N.T.S.



CATCH BASIN (CB) WITH OIL/DEBRIS TRAP - 2' SUMP (COOPER E-80)

SCALE: N.T.S.

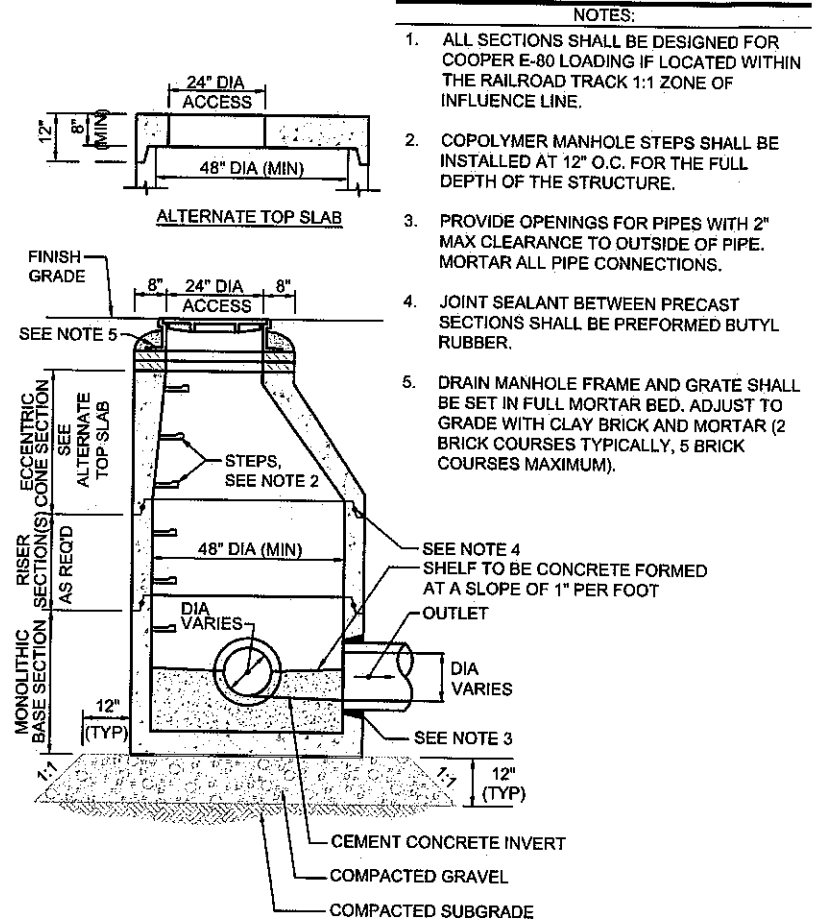


SECTION THRU BARREL
SCALE: N.T.S.
5'-0" W X 2'-0" H BOX CULVERT

- NOTES:**
1. BOX CULVERT SHALL BE DESIGNED FOR HS-20 LOADING IN ACCORDANCE WITH AASHTO.
 2. TRANSVERSE REINFORCING SHALL BE PLACED NORMAL TO THE CENTERLINE OF THE CULVERT.
 3. HAUNCH DIMENSION TO MATCH SIDE WALL DIMENSION.
 4. PRECAST BOX CULVERT, CURTAIN WALL, WINGWALL AND FOOTING SYSTEM TO BE DESIGNED BY CONTRACTOR.
 5. REINFORCEMENT SHOWN IS SCHEMATIC. REINFORCEMENT TO BE DESIGNED BY CONTRACTOR.
 6. APPLY BITUMINOUS DAMP-PROOFING TO ALL EXTERIOR SIDES OF BOX CULVERT.
 7. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

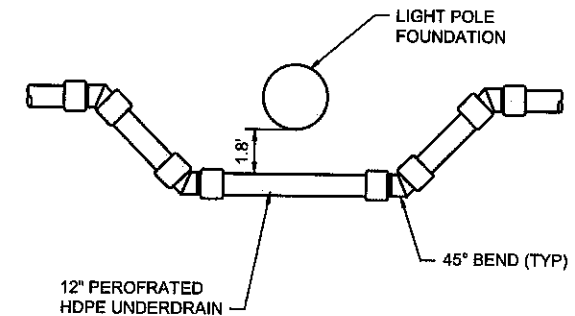
BOX CULVERT SECTION

SCALE: N.T.S.



DRAIN MANHOLE (DMH) (COOPER E-80)

SCALE: N.T.S.



PLAN VIEW

UNDERDRAIN BENDS AROUND LIGHT POLES

SCALE: N.T.S.

CONFORMED

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT MIDDLEBOROUGH TO NEW BEDFORD, MA CONTRACT NO. K78CN04	
NEW BEDFORD MAIN LINE WAMISUTTA LAYOVER YARD UTILITY DETAILS 1		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY: _____ PROJECT MANAGER _____ Date _____	
PROJECT MANAGER HORIZ: AS SHOWN VERT: AS SHOWN DATE: 09/18/2020	DES. BY: CG DR. BY: CG CHK. BY: WR	PLAN NO. 312306 SHEET UT-321	ISSUE 0

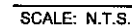


- UTILITY TRENCH** 8" WITHIN CITY OF BEDFORD ROW

8" WITHIN CITY OF
BEDFORD ROW



- ### UNDERDRAIN (UD)

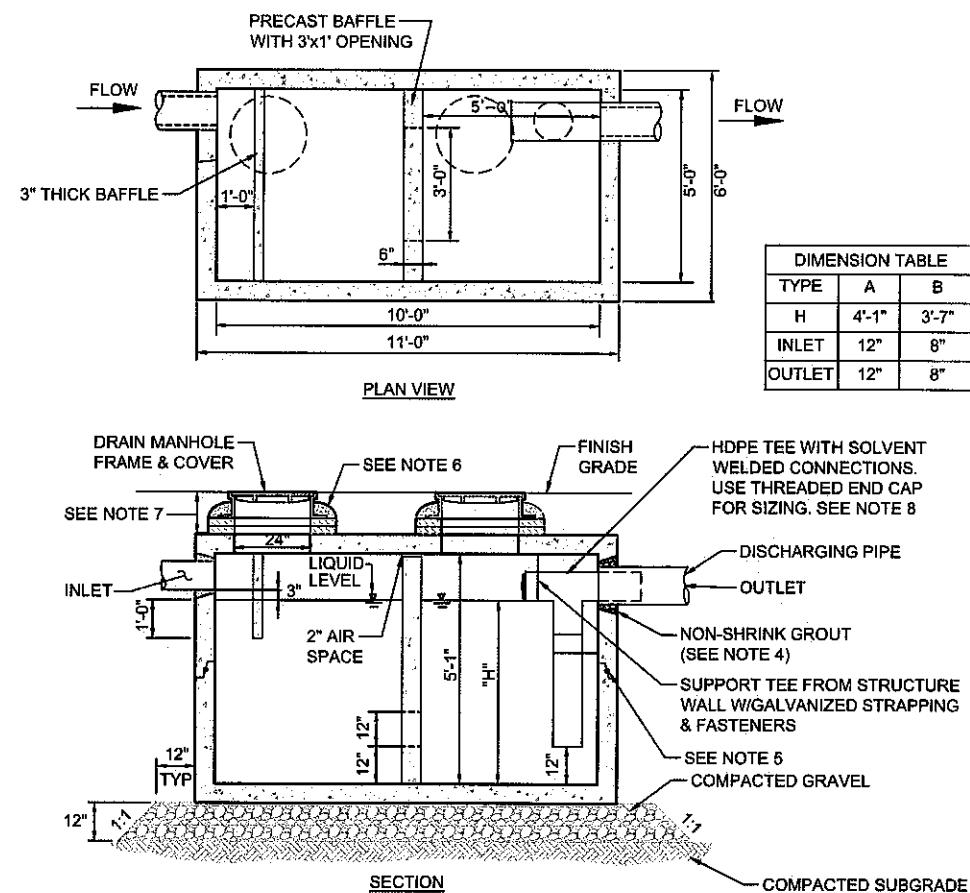


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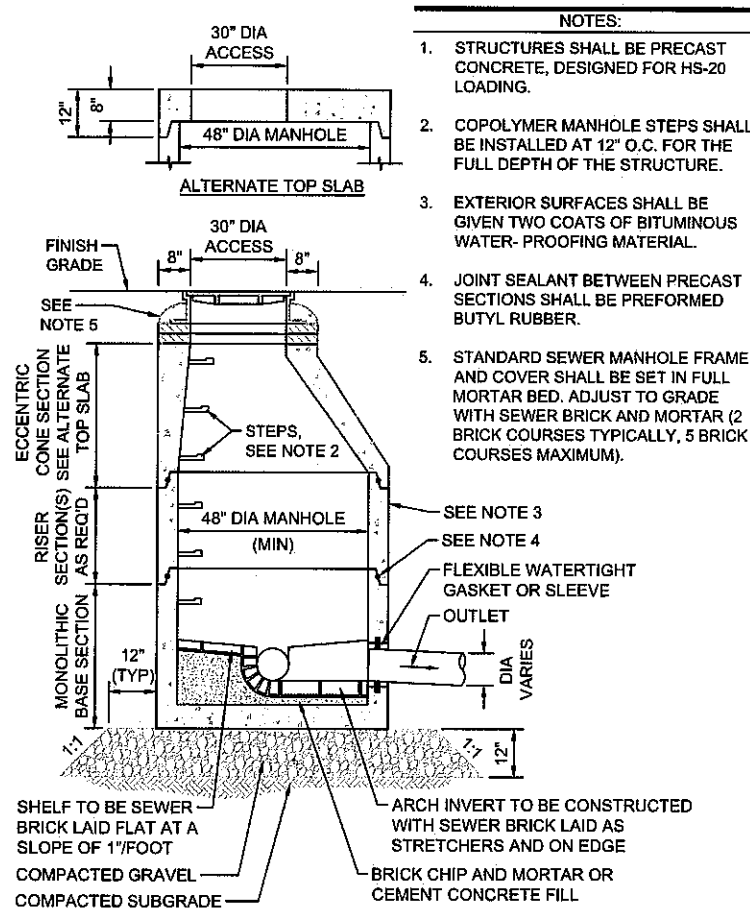
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OIL/WATER SEPARATOR (OWS)

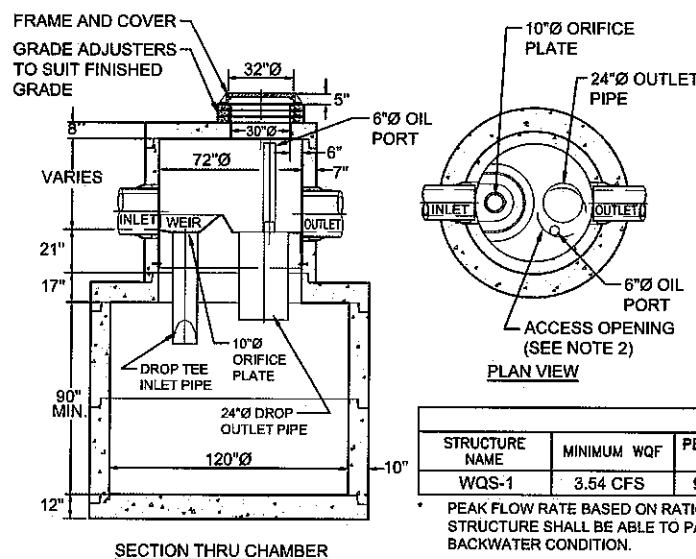
SCALE: N.T.S.



SANITARY MANHOLE (SMH)

SCALE: N.T.S.

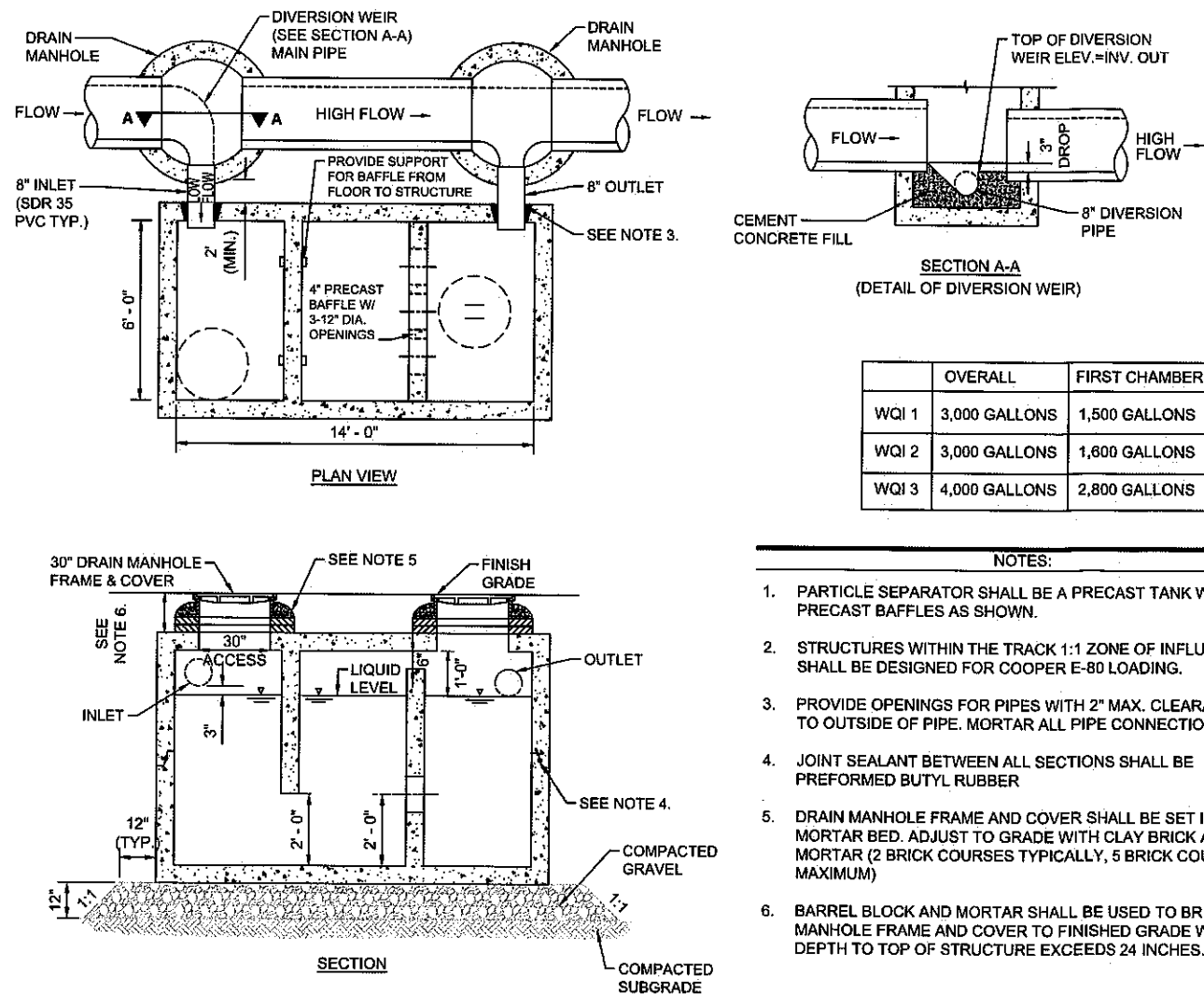
- NOTES:
- OIL/WATER SEPARATOR SHALL BE A STANDARD PRECAST SEPTIC TANK WITH PRECAST BAFFLES AS SHOWN OR APPROVED EQUAL.
 - STRUCTURE SECTIONS WITHIN THE TRACK 1:1 ZONE OF INFLUENCE SHALL BE DESIGNED FOR COOPER E-80 LOADING.
 - SEE PLANS FOR ACTUAL DISPOSITION OF PIPING LAYOUT FOR COORDINATION OF MANHOLE 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.



- NOTES:
- THE USE OF FLEXIBLE CONNECTION IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
 - THE COVER SHOULD BE POSITIONED OVER THE OUTLET DROP PIPE AND THE OIL PORT.
 - ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
 - JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
 - MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICKS TYPICALLY, 5 BRICK COURSES MAX).
 - PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL CONNECTIONS.
 - OR APPROVED EQUIVALENT.

WATER QUALITY STRUCTURE 1 (WQS-1)

SCALE: N.T.S.

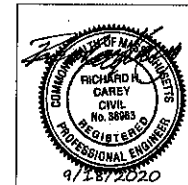


WATER QUALITY INLET TANK

SCALE: N.T.S.

- NOTES:
- PARTICLE SEPARATOR SHALL BE A PRECAST TANK WITH PRECAST BAFFLES AS SHOWN.
 - STRUCTURES WITHIN THE TRACK 1:1 ZONE OF INFLUENCE SHALL BE DESIGNED FOR COOPER E-80 LOADING.
 - 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.
 - 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).
 - 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.

CONFORMED



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT
MIDDLEBOROUGH TO NEW BEDFORD, MA
CONTRACT NO. K78CN04

NEW BEDFORD MAIN LINE
WAMSUTTA LAYOVER YARD
UTILITY DETAILS 3

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.	PROJECT MANAGER	DATE	PROJECT MANAGER	DATE
						Horiz: AS SHOWN	DES BY	DR BY	CHK BY
						VERT: AS SHOWN	CG	CG	WR
						DATE: 09/18/2020			
						PLAN NO. 312310			
						SHEET UT-323			