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Providence, RI 02903
tel: 401 751-5360
fax: 401 457-0321

March 1, 2022

Dennis Audette, Chairman
New Bedford Conservation Commission
133 William Street
New Bedford, Massachusetts 02740

Subject: Phase 4 Transmission Main Replacement Project
Applicant: City of New Bedford, Department of Public Infrastructure

Dear Mr. Audette:

On behalf of the City of New Bedford Department of Public Infrastructure (DPI), CDM Smith Inc. (CDM Smith) is notifying the New Bedford Conservation Commission (the Commission) of the upcoming work for the New Bedford Phase 4 Transmission Main Replacement Project (the Project). The project area is located approximately 75-feet east of 55 Samuel Barnet Boulevard, at the intersection of the roadway and the railroad tracks in New Bedford, Massachusetts.

The Project consists of the replacement of approximately 150 linear feet (LF) of existing 16-inch diameter cast iron water main with 16-inch diameter ductile iron water main under an existing Massachusetts Bay Transit Authority (MBTA) railroad track in New Bedford, Massachusetts. The water main is located within the existing Samuel Barnet Boulevard right-of-way, and the transmission main rail crossing is located within an MBTA railroad right-of-way.

This work is proposed adjacent to the roadway, within the grass shoulder. A perennial stream flows north/south on the eastern side of the railroad tracks, approximately 30 feet from the eastern edge of the proposed work area. The perennial stream has an associated 200-foot Riverfront Area and 100-foot Buffer Zone to Inland Bank, which extend into the proposed project area. See **Figure 1** and **Figure 2** for project location details.

A primary driver of this project is MBTA's South Coast Rail (SCR) railroad upgrades project that is providing rail transit connections between southeastern Massachusetts and Boston. DPI is taking a proactive approach in replacing their water main at these railroad crossings prior to MBTA's railroad construction, which is scheduled for early 2022.

As mentioned above, this project includes the replacement of a section of transmission mains under an MBTA train track. DPI wishes to replace the transmission mains at these locations as part of their long term transmission main replacement and rehabilitation project and address deficiencies to facilitate uninterrupted water supply to the City.





New Bedford Conservation Commission Notification Letter

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Based on the project limits for the proposed replacement water main, approximately 1,500 square feet of 200-foot Riverfront Area, as well as 770 sf of 100-foot Buffer Zone of Inland Bank will be temporarily impacted for the proposed work. The work consists of open trench replacement of the existing water main within the existing right of ways. Sedimentation and erosion controls will be installed along the perimeter of the project limit of disturbance to prevent washout and sediment runoff. Given that the project is proposed adjacent to the roadway in maintained lawn, permanent adverse impacts to jurisdictional resource areas are not anticipated as a result of the proposed work.

The Massachusetts Wetlands Protection Act (the Act) (Mass General Law Chapter 131, 40) was updated in August 2012 under Chapter 238 of the Act of 2012 to include an exemption for maintaining, repairing, or replacing water main without substantially changing or enlarging an existing and lawfully located structure used in public service. The New Bedford Code of Ordinances, Article VII, Section 15-103 also states that:

“The permit and application required by this ordinance shall not be required for maintaining, repairing, or replacing an existing and lawfully located structure or facility used in the service of the public to provide electric, gas, water, telephone, telegraph, or other telecommunication services, provided that the structure or facility is not substantially changed or enlarged, provided that written notice has been given to the conservation commission prior to commencement of work, and provided that work conforms to the performance standards and design specifications in regulations adopted by the conservation commission.”

As described herein, the proposed water main work consists of open trench replacement of existing water main within the existing easements. CDM Smith, on behalf of the City, is providing the Commission with this letter of project notification. Please review the proposed project work and provide comment regarding the Commission’s opinion on this project’s adherence to the above-described exemption.



New Bedford Conservation Commission Notification Letter

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The proposed project is anticipated to start in the summer of 2022 and the water main replacement work will take approximately 18 months.

Please contact me at (401) 457-0321 or Marc Weller at (401) 457-0311 if you have any questions that you may have regarding the proposed work or the Act.

Very truly yours,

A handwritten signature in cursive script that reads "Danielle Gallant".

Danielle Gallant, PWS, QEP
Environmental Scientist
CDM Smith Inc.

cc: Shawn Syde, P.E. – City of New Bedford, Department of Public Infrastructure
Ymane Galotti, P.E. – City of New Bedford, Department of Public Infrastructure
Brendan Ennis, P.E. – CDM Smith
Marc Weller, P.E. – CDM Smith Inc.

Enclosures:
Figure 1
Photographs
Project Plans



Figure 1 . USGS Project Location Map
 Samuel Barnet Boulevard Location
 Phase 4 Transmission Main Reinforcement Project
 City of New Bedford, Massachusetts



Photograph 1: Aerial Photograph of project area during MBTA culvert construction in 2019.

**CITY OF NEW BEDFORD, MASSACHUSETTS
WATER SYSTEM IMPROVEMENTS**

**PHASE 4 TRANSMISSION MAIN
REINFORCEMENT PROJECT**

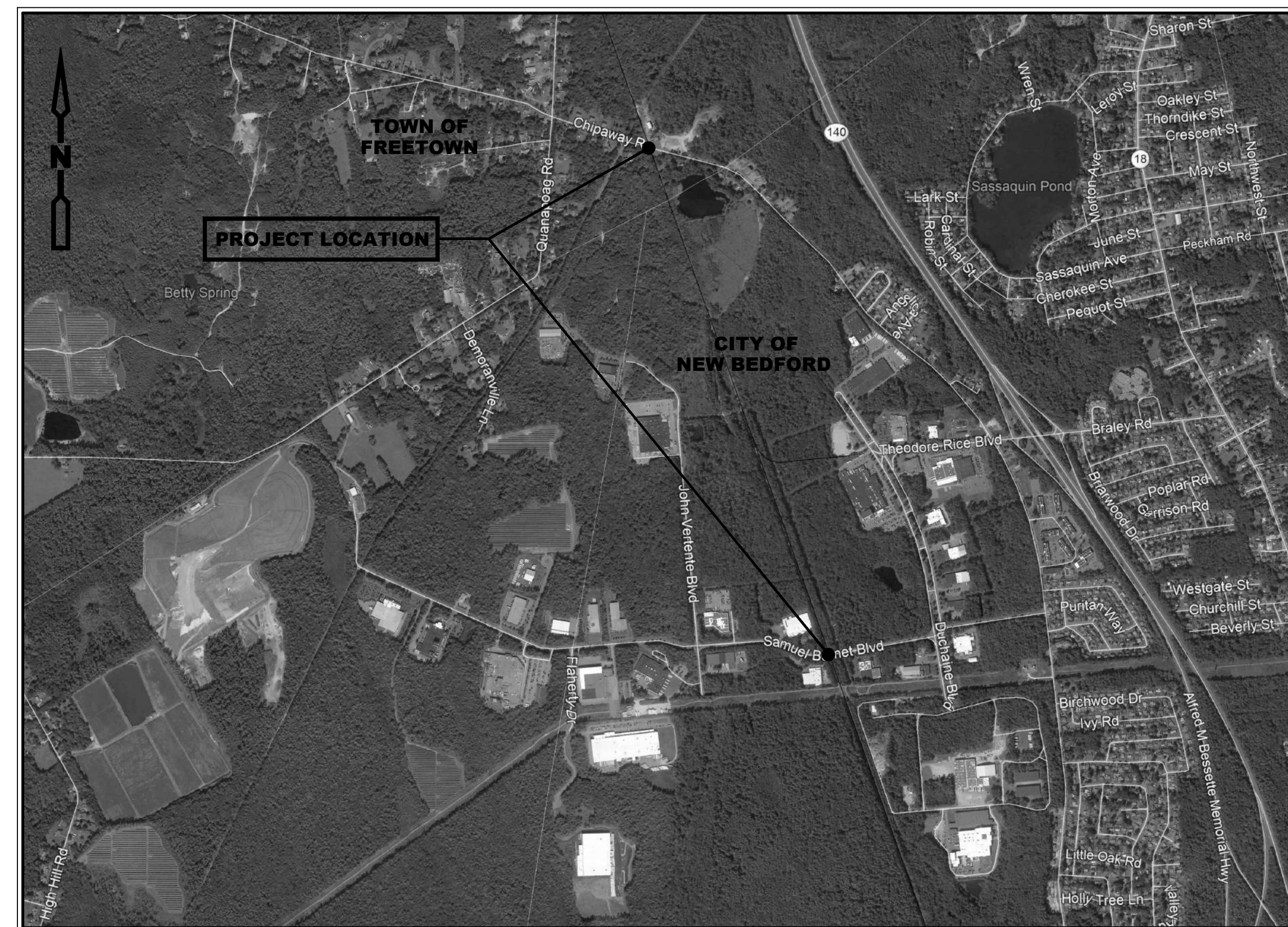
**CONTRACT NO. 1
PROJECT NO. DWSRF-6847
BID NO. 21434072**

MAYOR

HONORABLE JONATHAN F. MITCHELL

**DEPARTMENT OF PUBLIC
INFRASTRUCTURE**

JAMIE PONTE (COMMISSIONER)
JUSTIN CHICCA (DEPUTY COMMISSIONER)
YMANE J. GALLOTI, P.E. (SUPERINTENDENT OF WATER)
SHAWN T. SYDE, P.E. (CITY ENGINEER)



LOCATION PLAN
NOT TO SCALE

LIST OF DRAWINGS

<u>SHEET</u>	<u>TITLE</u>
G-1	LEGEND, GENERAL NOTES AND ABBREVIATIONS
G-2	TRANSMISSION MAIN MAPPING (NOT INCLUDED)
C-1	BRALEY STATION – EXISTING CONDITIONS PLAN
C-2	BRALEY STATION – TRANSMISSION MAIN PLAN
C-3	BRALEY STATION – TRANSMISSION MAIN PROFILE
C-4	SAMUEL BARNET BLVD. – EXISTING CONDITIONS PLAN
C-5	SAMUEL BARNET BLVD. – TRANSMISSION MAIN PLAN
C-6	SAMUEL BARNET BLVD. – TRANSMISSION MAIN PROFILE
CD-1	CIVIL DETAILS I
CD-2	CIVIL DETAILS II
CD-3	BORING LOGS I
CD-4	BORING LOGS II
T-1	TRAFFIC MANAGEMENT PLAN – SAMUEL BARNET BLVD.

JANUARY 2022

**60% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION**



PROVIDENCE, RHODE ISLAND

Water

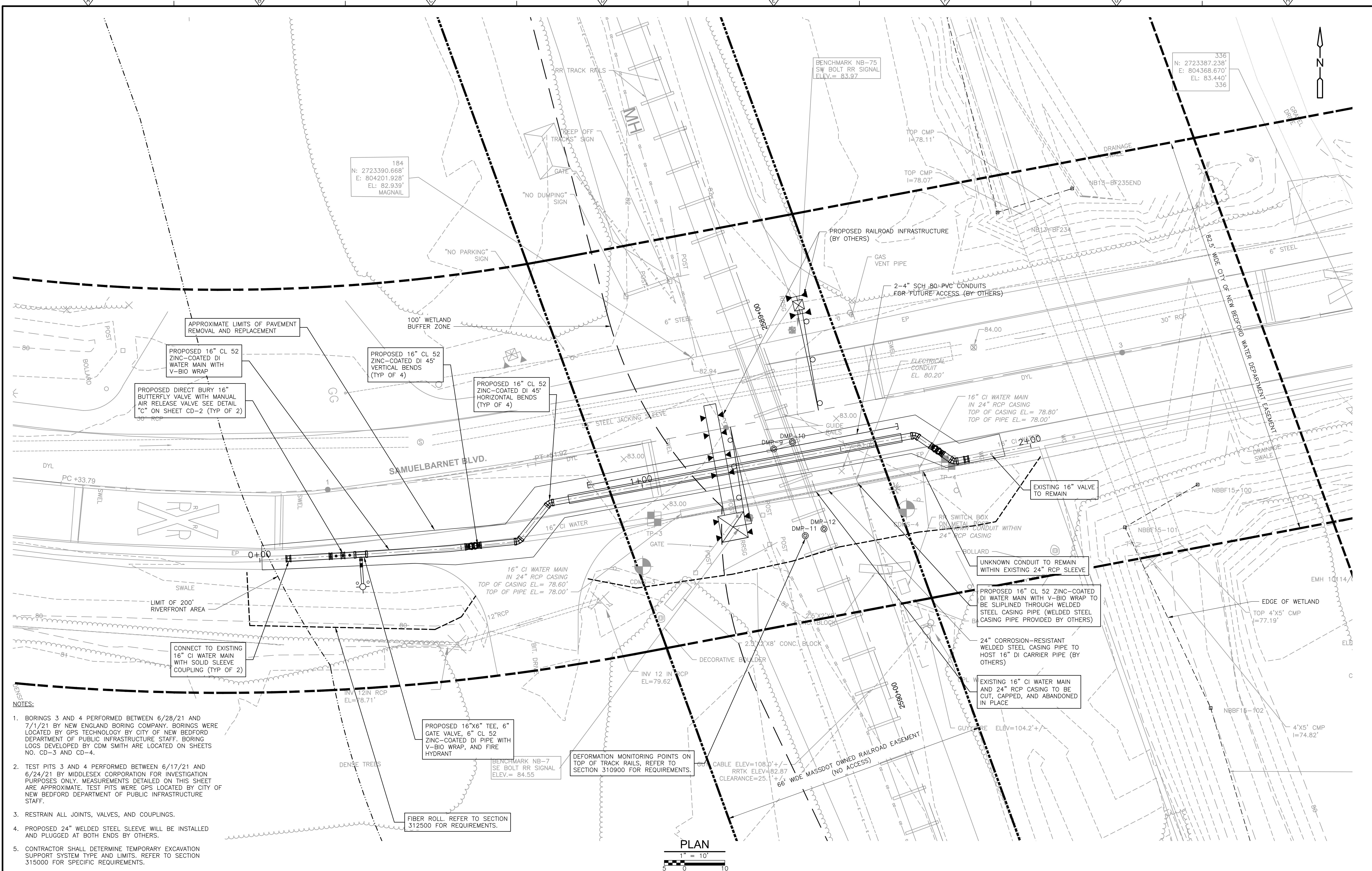
Environment

Transportation

Energy

Facilities

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- NOTES:**
- BORINGS 3 AND 4 PERFORMED BETWEEN 6/28/21 AND 7/1/21 BY NEW ENGLAND BORING COMPANY. BORINGS WERE LOCATED BY GPS TECHNOLOGY BY CITY OF NEW BEDFORD DEPARTMENT OF PUBLIC INFRASTRUCTURE STAFF. BORING LOGS DEVELOPED BY CDM SMITH ARE LOCATED ON SHEETS NO. CD-3 AND CD-4.
 - TEST PITS 3 AND 4 PERFORMED BETWEEN 6/17/21 AND 6/24/21 BY MIDDLESEX CORPORATION FOR INVESTIGATION PURPOSES ONLY. MEASUREMENTS DETAILED ON THIS SHEET ARE APPROXIMATE. TEST PITS WERE GPS LOCATED BY CITY OF NEW BEDFORD DEPARTMENT OF PUBLIC INFRASTRUCTURE STAFF.
 - RESTRAIN ALL JOINTS, VALVES, AND COUPLINGS.
 - PROPOSED 24" WELDED STEEL SLEEVE WILL BE INSTALLED AND PLUGGED AT BOTH ENDS BY OTHERS.
 - CONTRACTOR SHALL DETERMINE TEMPORARY EXCAVATION SUPPORT SYSTEM TYPE AND LIMITS. REFER TO SECTION 315000 FOR SPECIFIC REQUIREMENTS.

REV. NO.	DATE	DRWN	CHKD	REMARKS

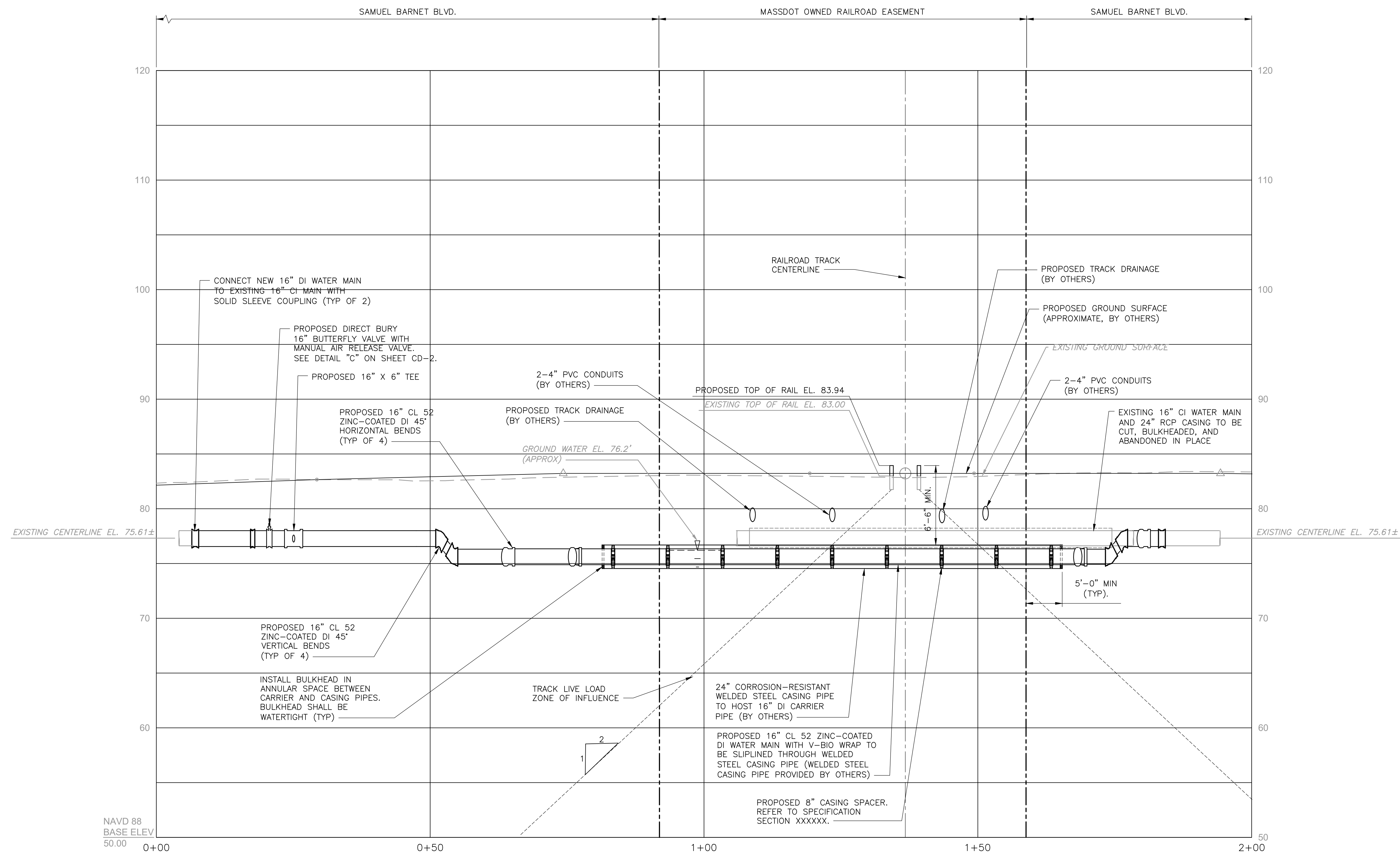
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 DRAWN BY: A. WELDON
 SHEET CHK'D BY: M. WELLER
 CROSS CHK'D BY: X
 APPROVED BY: X
 DATE: JANUARY 2022



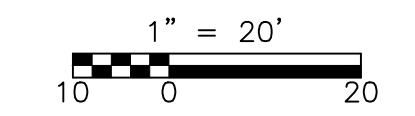
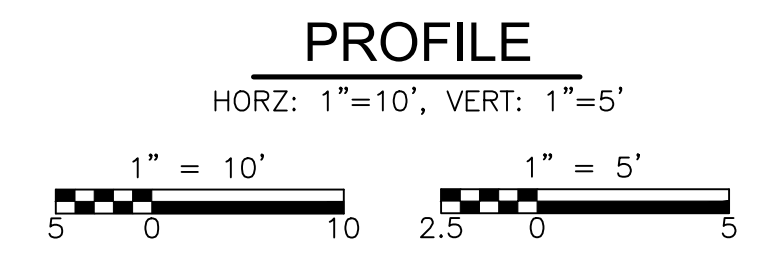
CITY OF NEW BEDFORD, MASSACHUSETTS
 WATER SYSTEM IMPROVEMENTS
 PHASE 4 TRANSMISSION MAIN
 REINFORCEMENT PROJECT

PROJECT NO. 0309-262802
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 SHEET NO. C-5

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- NOTES:
1. RESTRAIN ALL JOINTS, VALVES, AND COUPLINGS.
 2. ELEVATIONS DETAILED IN PROFILE ARE APPROXIMATE. PRIOR TO INSTALLING TRANSMISSION MAIN, CONTRACTOR SHALL FIELD VERIFY ELEVATION OF EXISTING 16" CI PIPE FOR PROPER CONNECTION BETWEEN NEW AND EXISTING.



REV. NO.	DATE	DRWN	CHKD	REMARKS

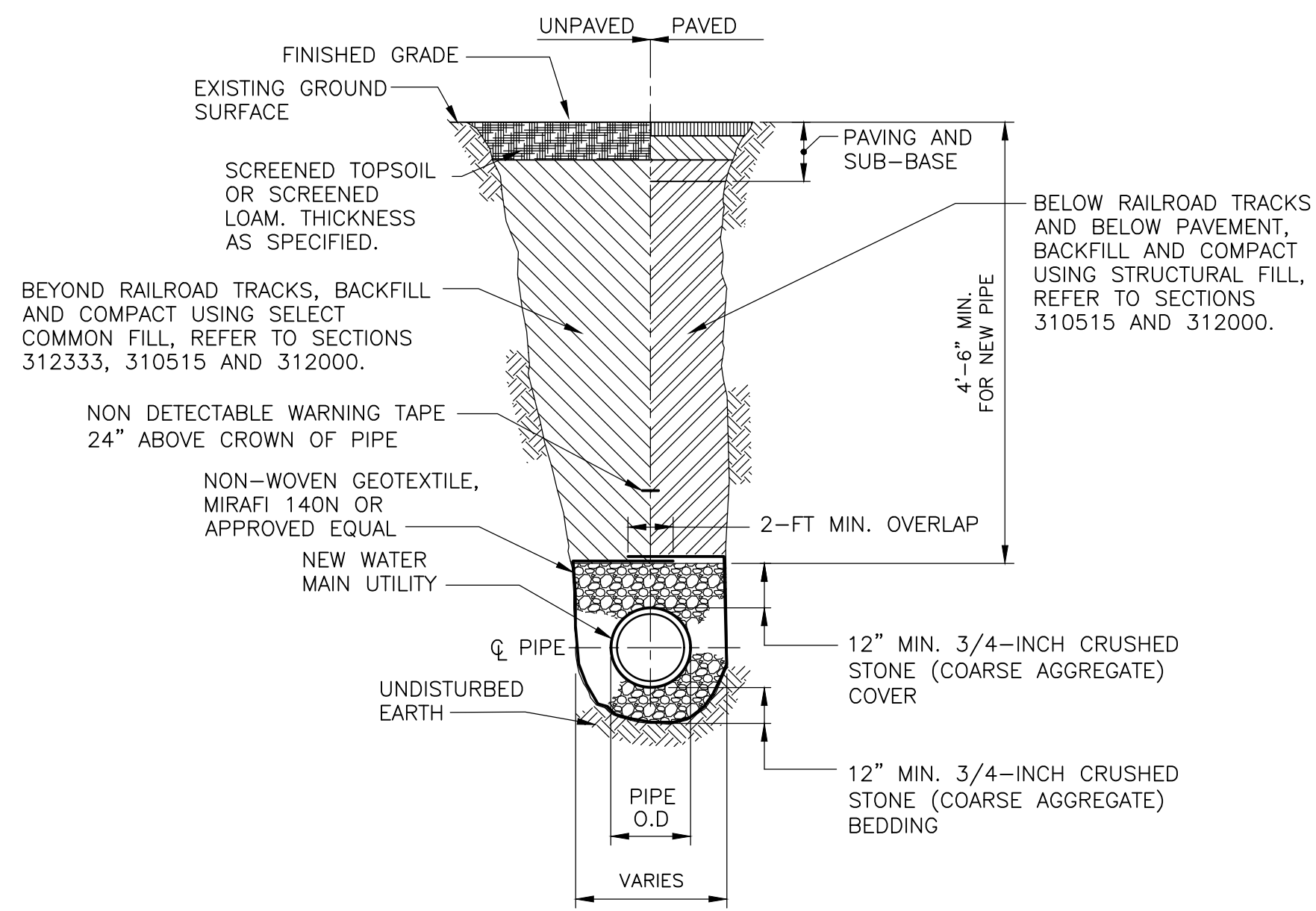
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 DRAWN BY: A. WELDON
 SHEET CHK'D BY: M. WELLER
 CROSS CHK'D BY: X
 APPROVED BY: X
 DATE: JANUARY 2022



CITY OF NEW BEDFORD, MASSACHUSETTS
 WATER SYSTEM IMPROVEMENTS
 PHASE 4 TRANSMISSION MAIN
 REINFORCEMENT PROJECT

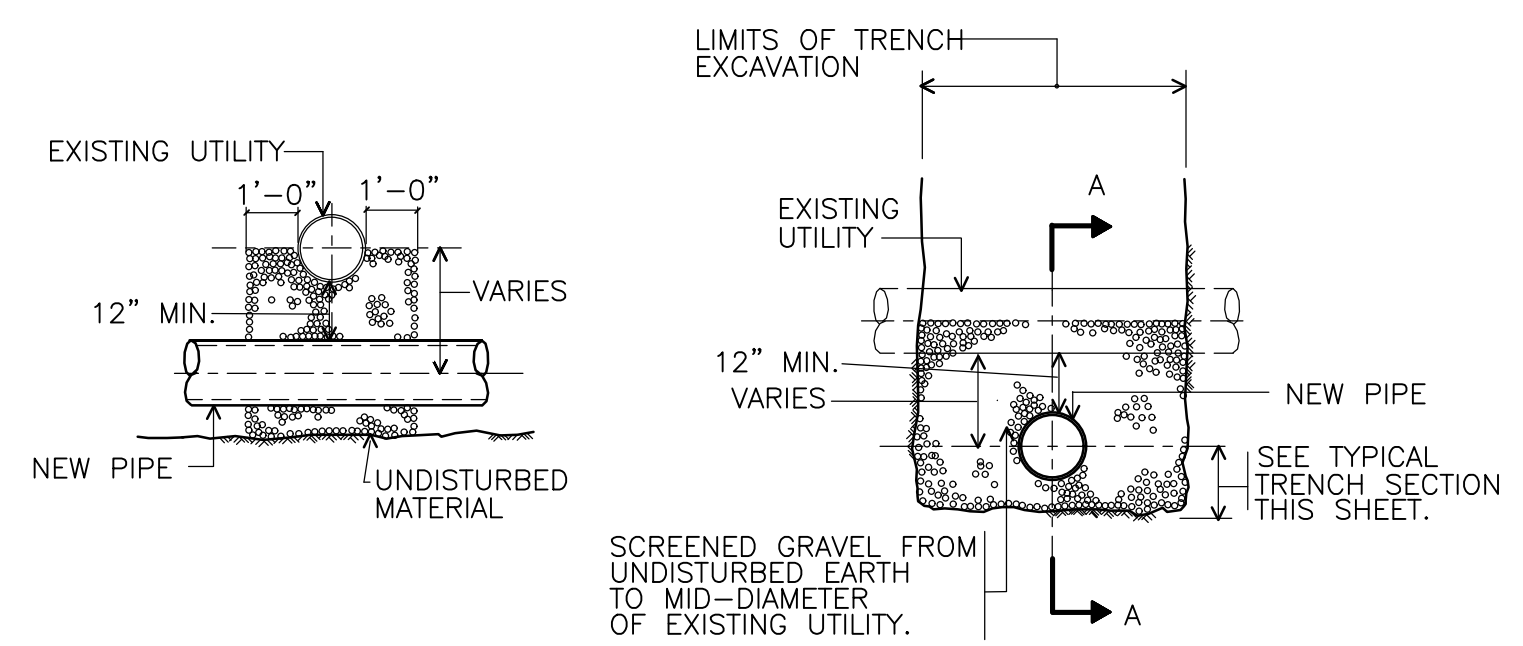
**SAMUEL BARNET BLVD
 TRANSMISSION MAIN
 PROFILE**

PROJECT NO. 0309-262802
 FILE NAME: C006STPL.DWG
 SHEET NO.
C-6

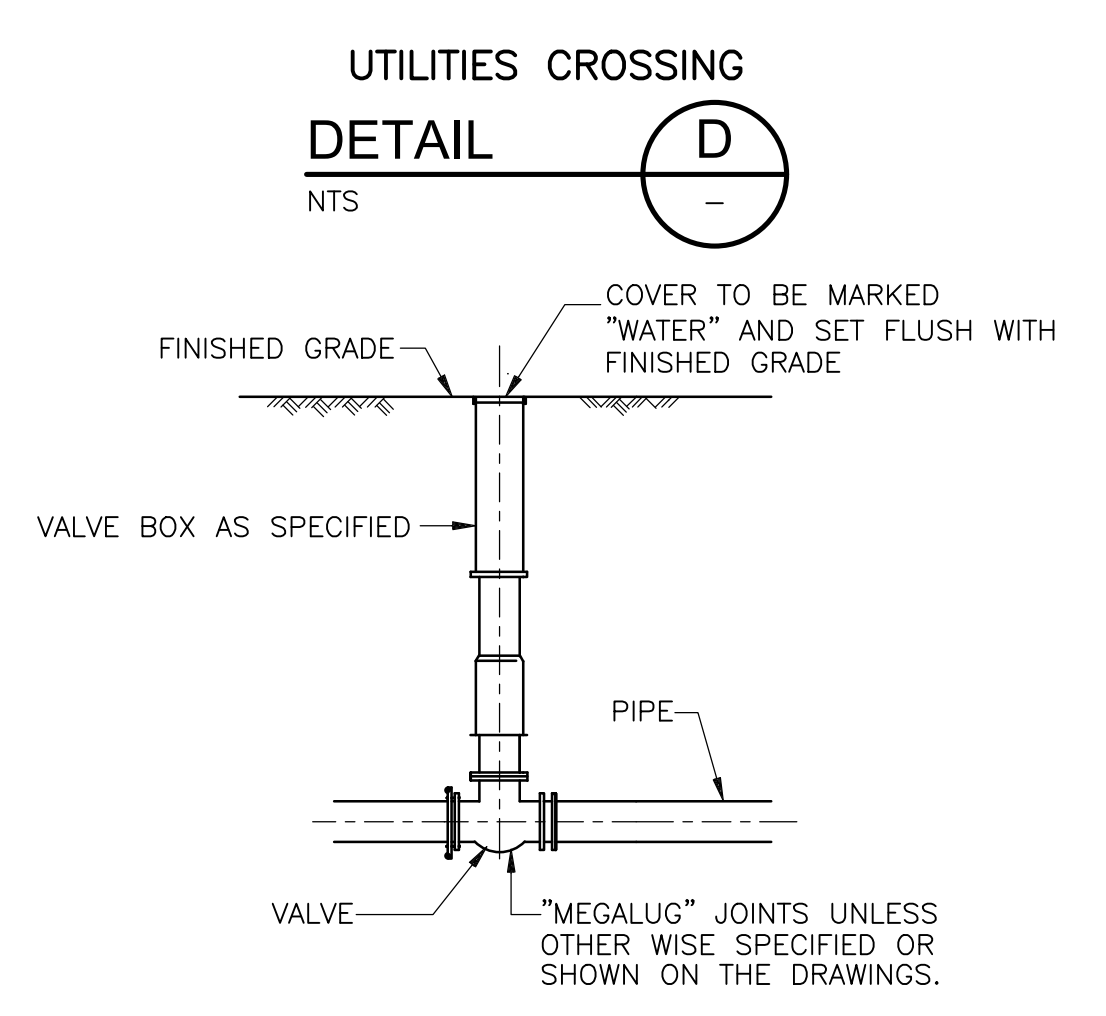


- NOTES:**
- SEE TEMPORARY PAVEMENT RESTORATION DETAIL FOR PAVEMENT RESTORATION.
 - BEDDING AND BACKFILL MATERIALS SHALL BE AS SPECIFIED AND PLACED IN MAXIMUM 12-INCH LIFTS COMPACTED TO MINIMUM STANDARD PROCTOR AS SPECIFIED IN SECTION 310515.
 - ALL TRENCHES WITHIN ROADWAY SHALL BE SAWCUT PRIOR TO EXCAVATION.

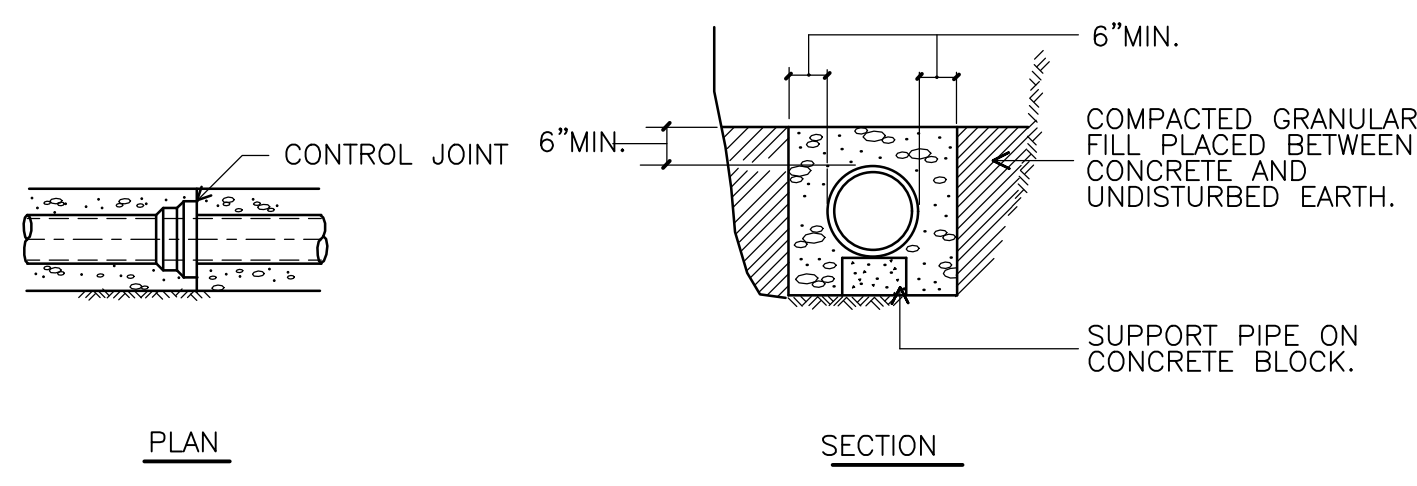
TYPICAL TRENCH DETAIL FOR WATER PIPE
DETAIL A
 NTS



SECTION A-A **TYPICAL ELEVATION**

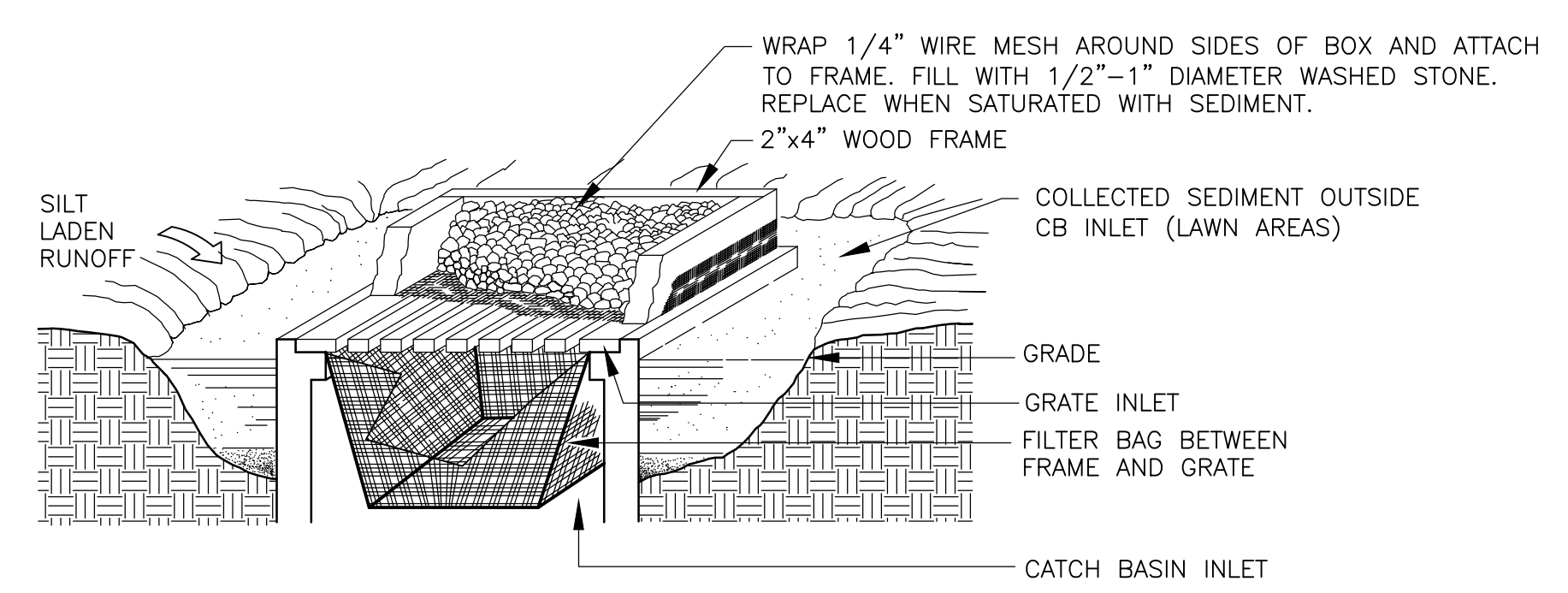


TYPICAL GATE VALVE AND BOX
DETAIL F
 NTS



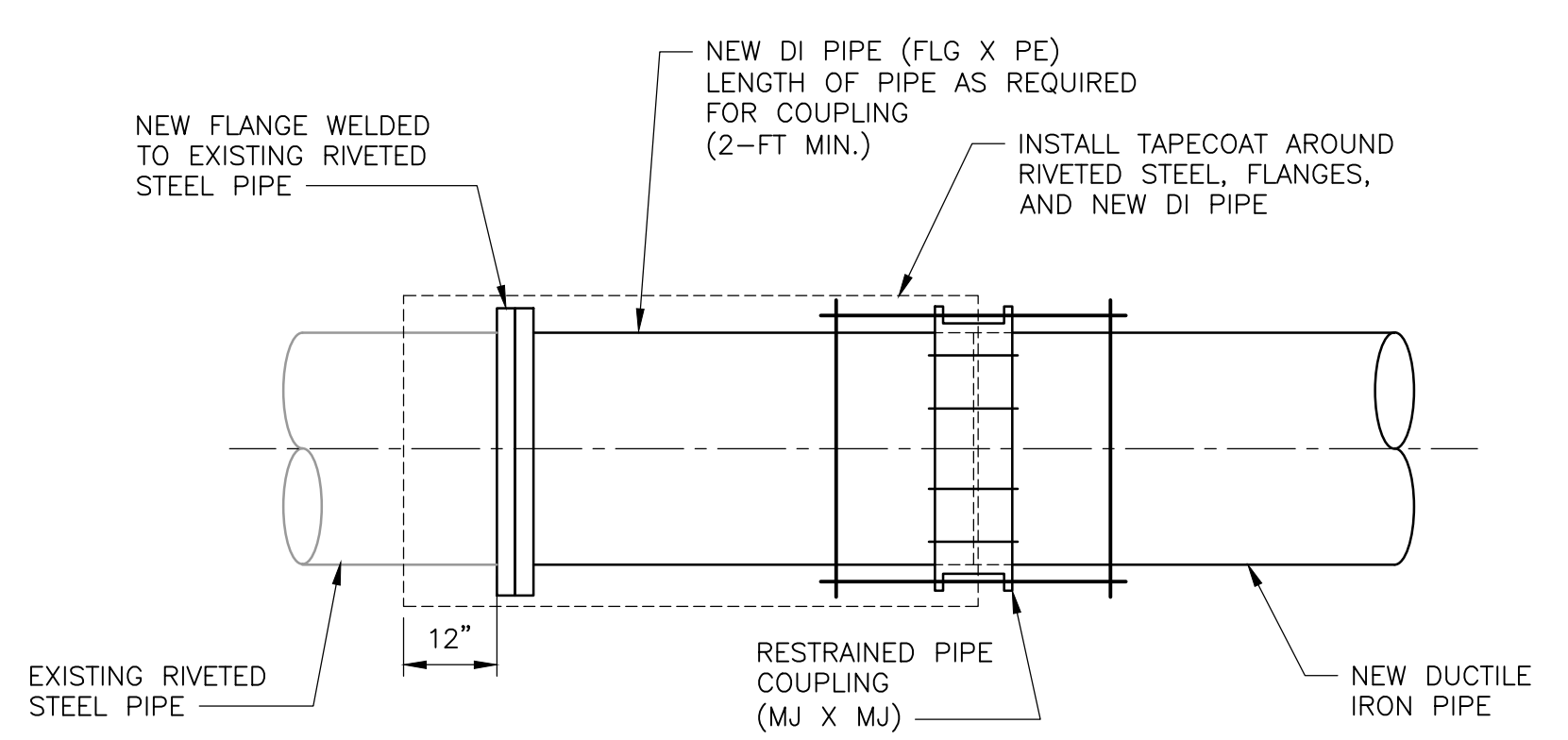
- NOTE:**
- CONTROL JOINTS AND PIPE JOINTS FOR ENCASEMENT SHALL COINCIDE FOR SPACING. MAX. DISTANCE BETWEEN CONTROL JOINTS SHALL BE 24'.

CONCRETE ENCASUREMENT
DETAIL B
 NTS



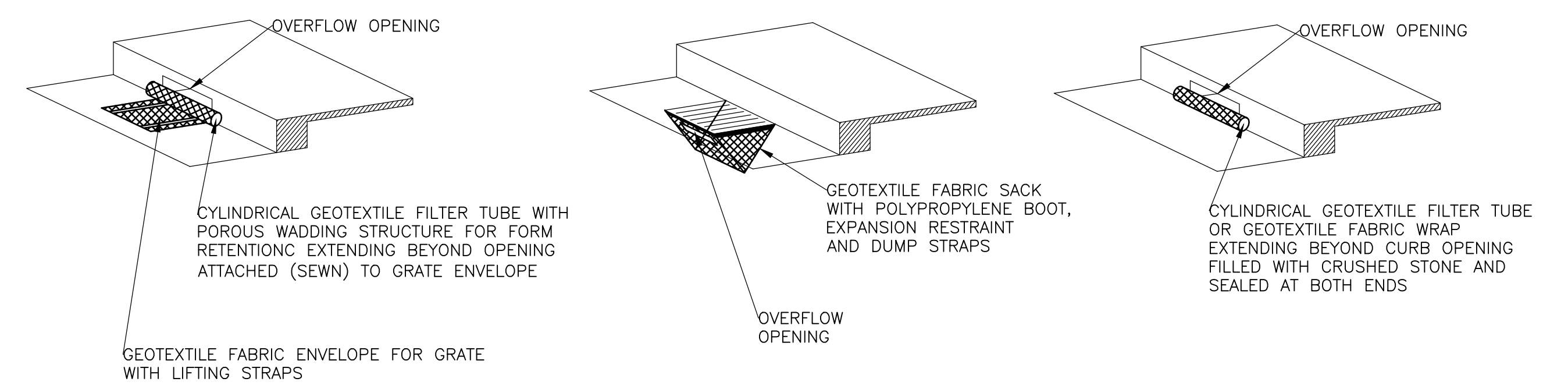
- NOTES:**
- IN LAWN AREAS, USE MESH, WOOD FRAME BOX, AND STONE FOR INLET PROTECTION (NO BAG REQUIRED) IN PAVEMENT AREAS, ONLY FILTER BAG REQUIRED.
 - IN CONTAINMENT AREAS, USE FILTER BAG FOR INLET PROTECTION (NO MESH, BOX STONE REQUIRED).
 - INSTALL CATCH BASIN SEDIMENT FILTERS WITHIN EACH CATCH BASIN IN AND ADJACENT TO (WITHIN 50') THE LIMITS OF WORK AS WELL AS THOSE IMMEDIATELY DOWN GRADIENT OF THE LIMIT OF WORK AREAS.

CATCH BASIN SEDIMENT FILTER
DETAIL E
 NTS



- NOTES:**
- CONTRACTOR SHALL CONFIRM CONNECTION LOCATION. SEE SPECIFICATION SECTION XXXX.
 - CONTRACTOR SHALL CONFIRM BOLT PATTERN FOR NEW FLANGE CONNECTION.

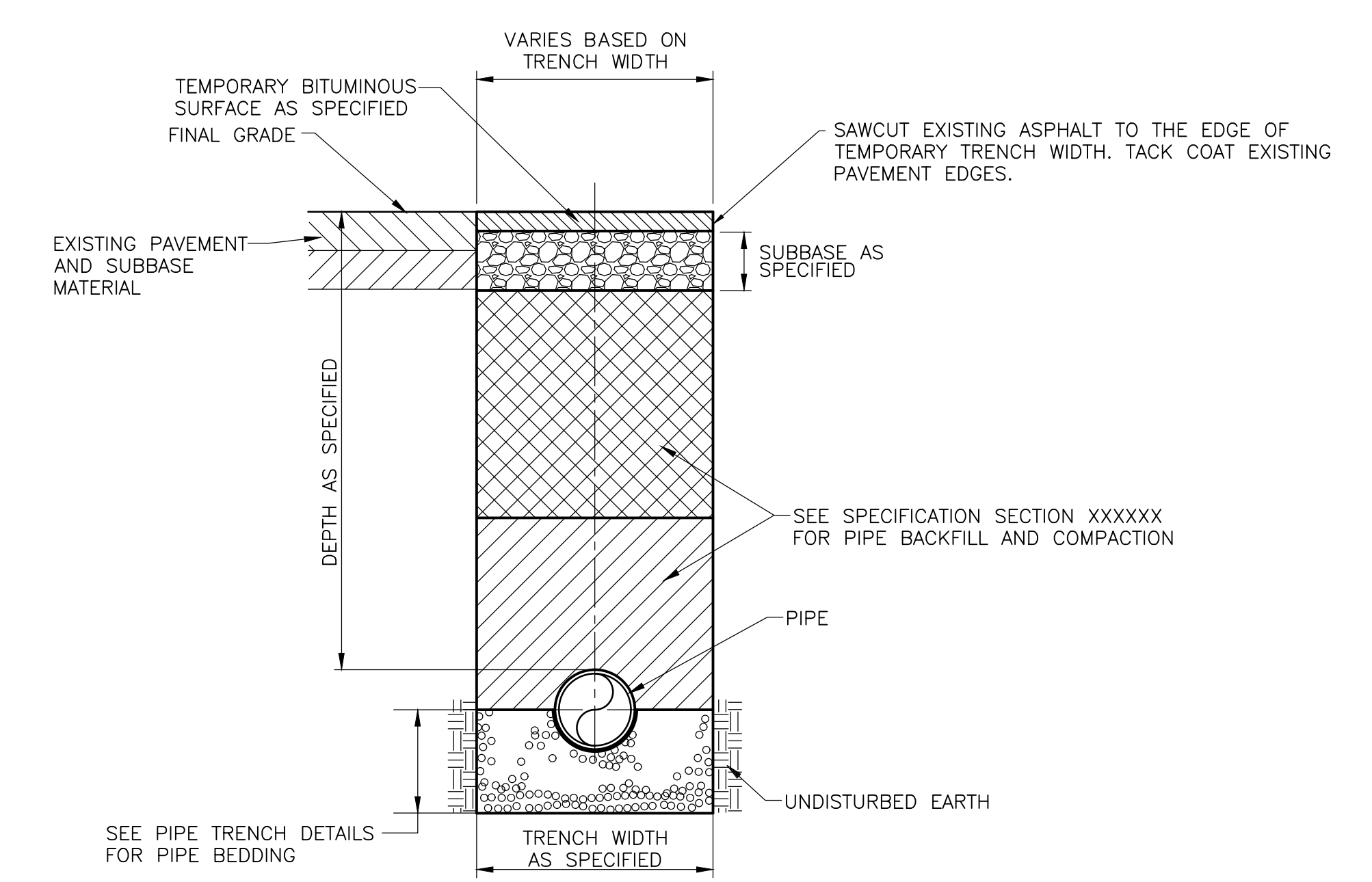
CONNECTION TO EXISTING RIVETED STEEL PIPE
DETAIL G
 NTS



CATCH BASIN WITH CURB INLET **CATCH BASIN NO CURB INLET** **CATCH BASIN MUNICIPAL STANDARD**

- NOTE:**
- GEOTEXTILE FABRIC USED SHALL CONFORM TO REQUIREMENTS OF AASHTO M 288 FOR THE INTENDED APPLICATION. SEDIMENT SHALL BE REMOVED ONCE DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT. REFER TO SPECIFICATIONS.

INLET PROTECTION
DETAIL C
 NTS



- NOTES:**
- BACKFILL, COMPACTION AND PAVEMENT RESTORATION SHALL BE AS SPECIFIED.
 - SEE PIPE TRENCH DETAILS FOR PIPE BEDDING, BACKFILL AND COMPACTION.
 - NEW PAVEMENT SHALL BE HMA BASE/INTERMEDIATE COURSE AND A MINIMUM 4-INCHES THICK.
 - TRENCH PAVEMENT SHALL BE THE SAME FOR ROADWAY, DRIVEWAY, AND SIDEWALK.

TEMPORARY PAVEMENT RESTORATION
DETAIL H
 NTS

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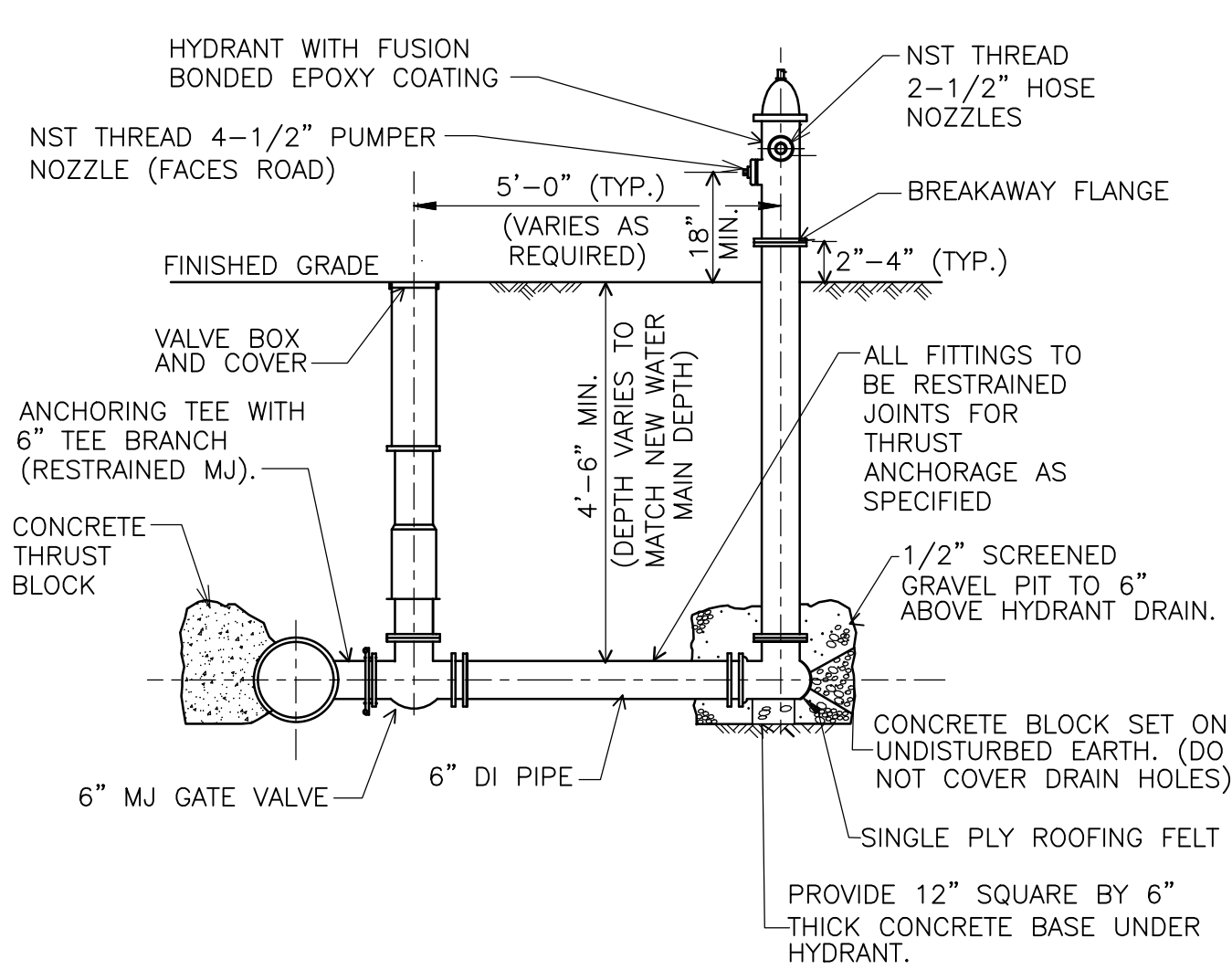
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: T. JOHNSON
 DRAWN BY: A. WELDON
 SHEET CHK'D BY: M. WELLER
 CROSS CHK'D BY: X
 APPROVED BY: X
 DATE: JANUARY 2022



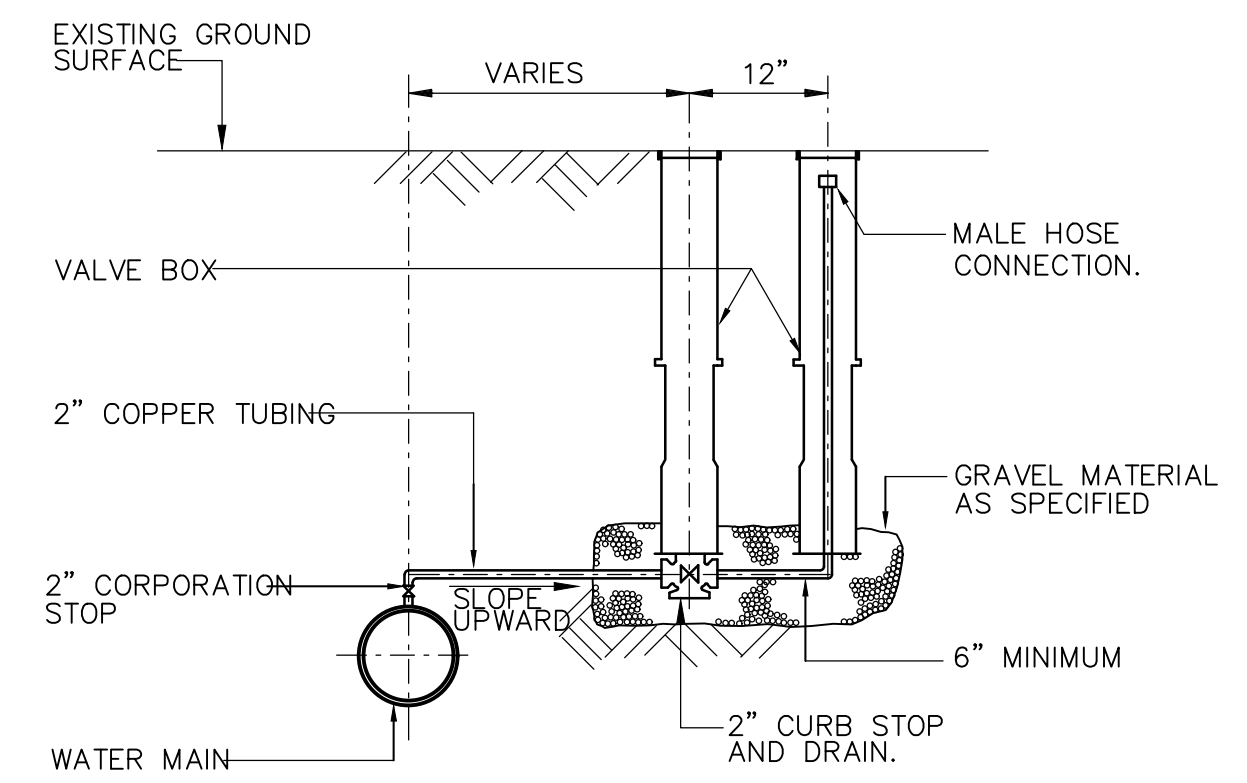
CITY OF NEW BEDFORD, MASSACHUSETTS
 WATER SYSTEM IMPROVEMENTS
 PHASE 4 TRANSMISSION MAIN
 REINFORCEMENT PROJECT

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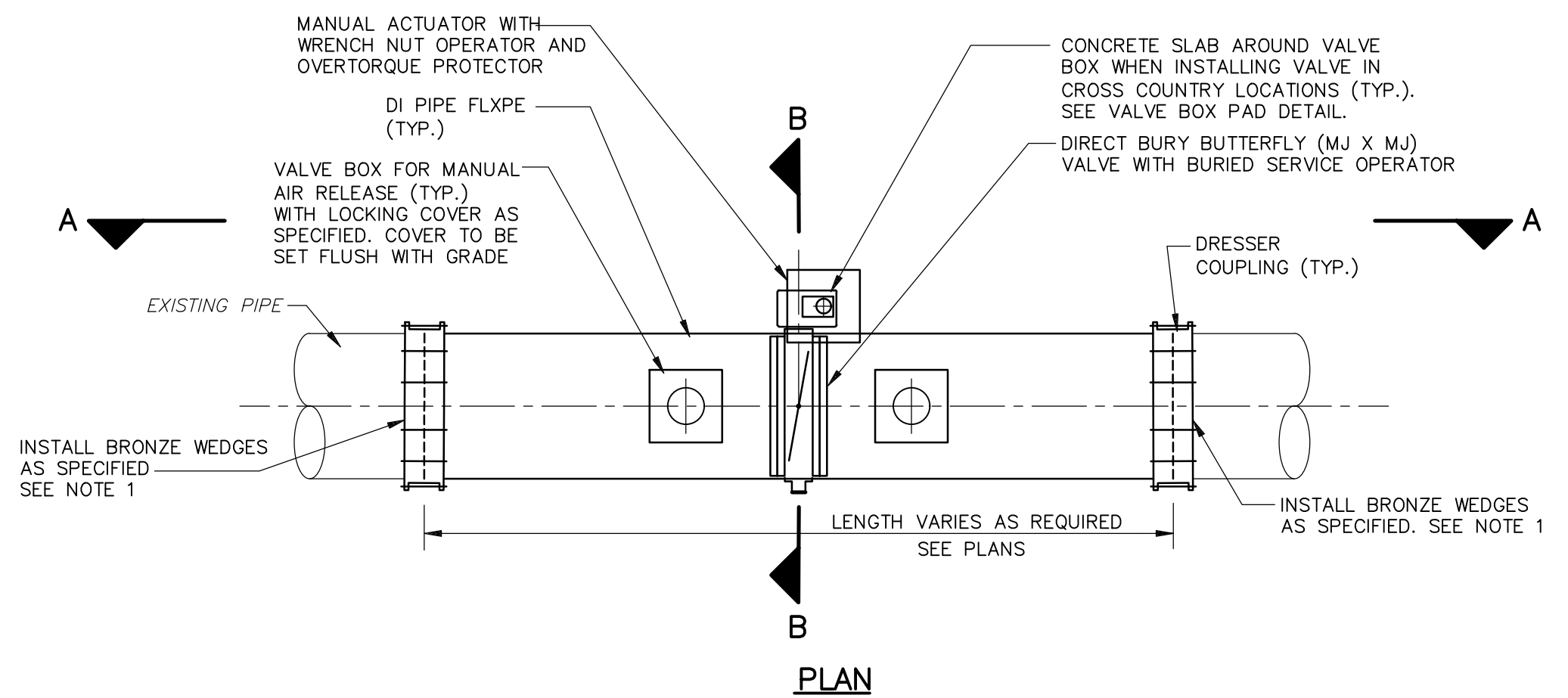


- NOTES:**
1. HYDRANTS SHOULD NOT BE INSTALLED WHERE THERE MAY BE SUBJECT TO DAMAGE FROM TRAFFIC, PLOWING, ETC.
 2. HYDRANTS SHALL BE LOCATED TO ALLOW COMPLETE/FREE TURNING OF A STANDARD HYDRANT WRENCH.
 3. SHOULD FIELD ADJUSTMENTS BE REQUIRED TO PROPOSED HYDRANT LOCATIONS SHOWN ON THE DRAWINGS, CONTRACTOR SHALL CONSULT WITH THE OWNER/ENGINEER FOR REVIEW AND APPROVAL.
 4. CONCRETE THRUST BLOCKS TO BE USED ONLY WHERE THEY WILL BEAR UPON UNDISTURBED EARTH. USE RESTRAINED JOINTS (MECHANICAL JOINT RETAINER GLANDS) FOR ALL HYDRANTS.
 5. CONTRACTOR TO VERIFY DEPTH OF WATER MAIN PRIOR TO ORDERING HYDRANTS.

FIRE HYDRANT-STANDARD CONNECTION
DETAIL A
 NTS

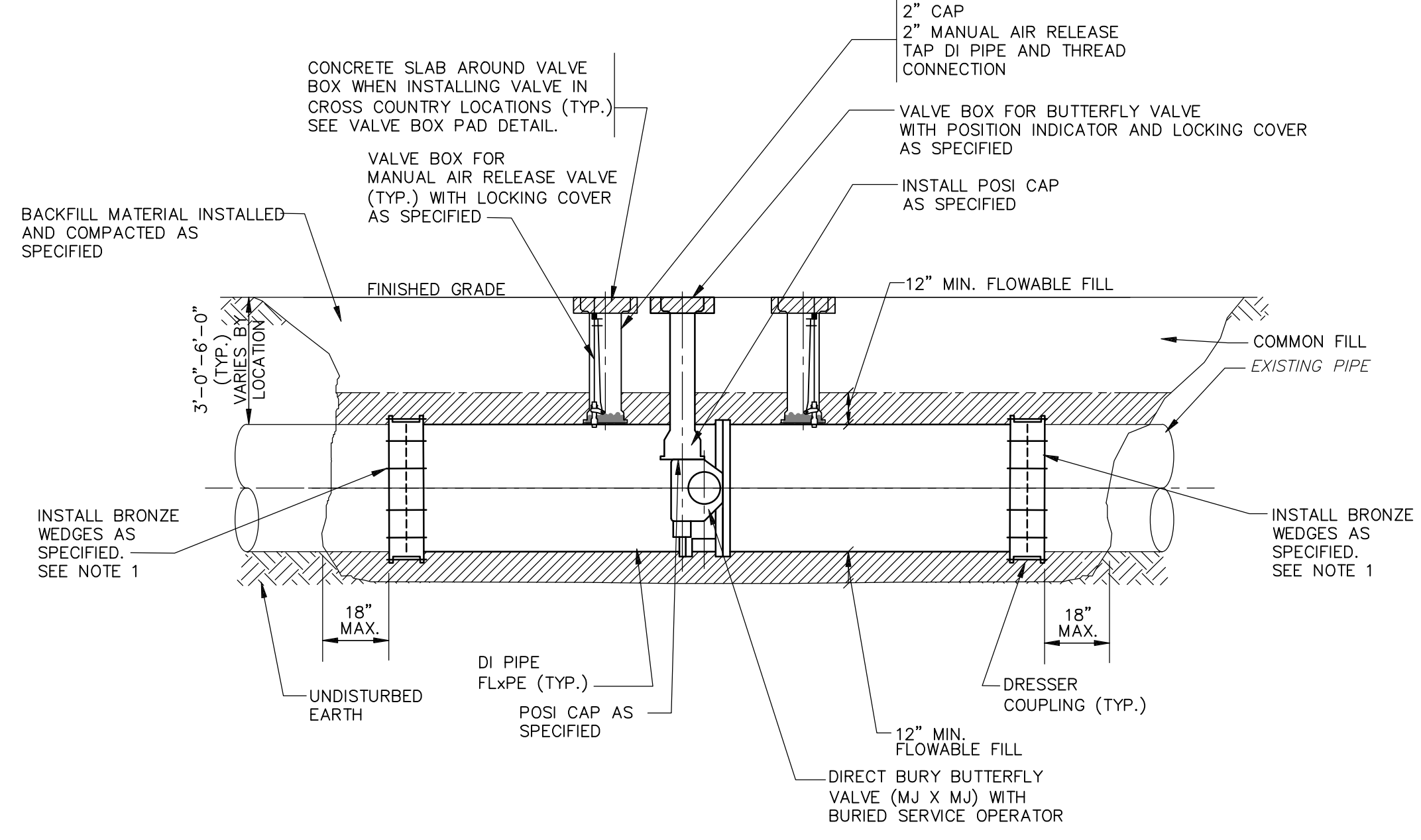


MANUAL AIR RELEASE
DETAIL B
 NTS

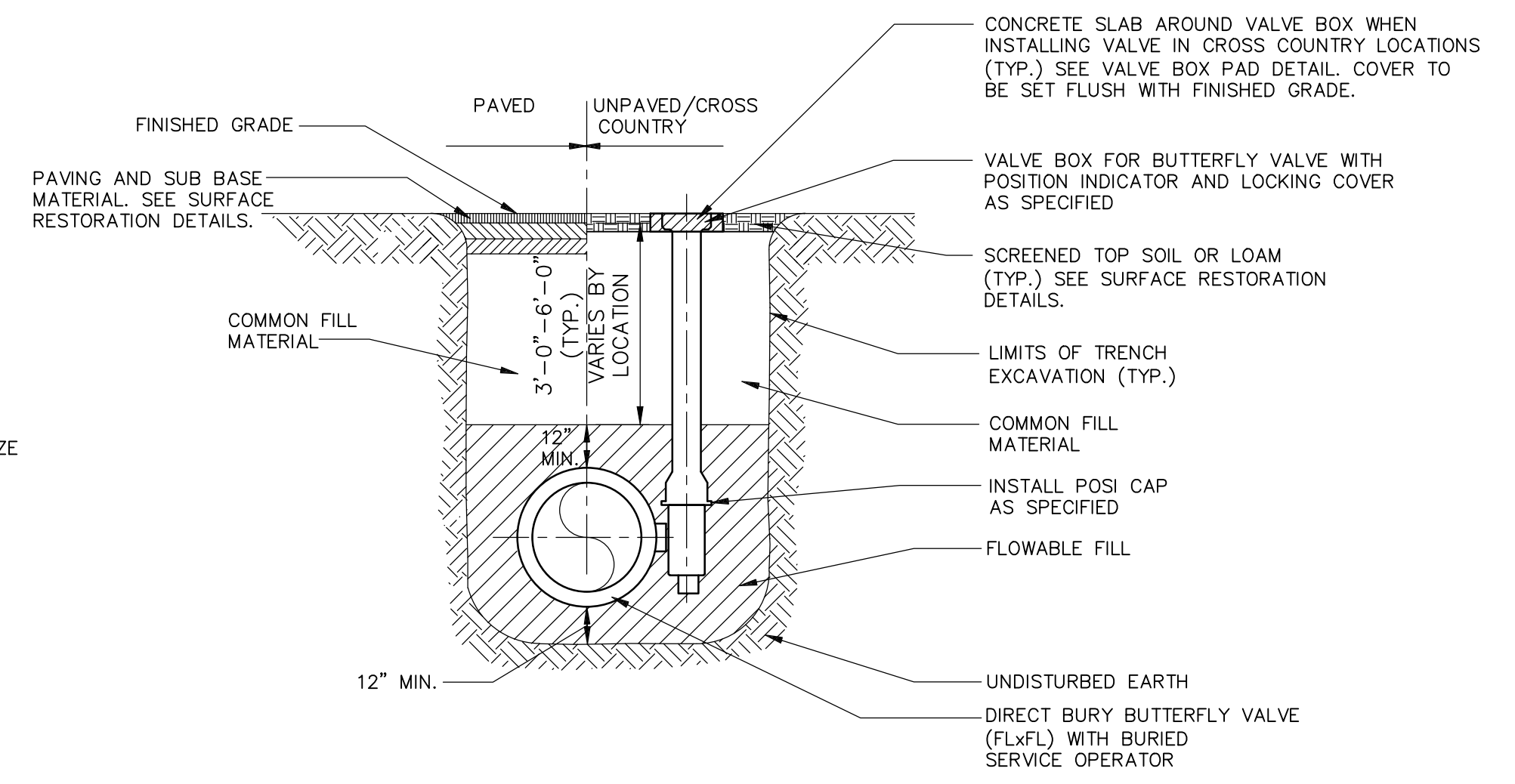


PLAN

- NOTES:**
1. INSTALL TWO (2) BRONZE WEDGES PER JOINT FOR 3" THROUGH 12" PIPE AND FOUR (4) BRONZE WEDGES PER JOINT FOR PIPES GREATER THAN 12".
 2. ALL BUTTERFLY VALVES SHALL PASS THE SPECIFIED ON-SITE PRESSURE TESTING PRIOR TO INSTALLATION.
 3. ALL PIPE, FITTING AND VALVE JOINTS SHALL BE RESTRAINED.
 4. MANUAL AIR RELEASE VALVES SHALL BE PROVIDED AT EACH BUTTERFLY VALVE INSTALLATION FOR ALL 24", 36" AND 42" BUTTERFLY VALVES.
 5. THIS IS A TYPICAL VALVE REPLACEMENT DETAIL. SEE WORK AREAS FOR SPECIFIC PIPING AND FITTING THAT VARY TO SUIT EACH SPECIFIC LOCATION.
 6. CONTRACTOR SHALL EXCAVATE TEST PITS AS REQUIRED TO CONFIRM ALL DIMENSIONS, MEASUREMENTS AND PIPE OUTSIDE DIAMETER PRIOR TO ORDERING AND FABRICATION OF NEW MATERIALS.

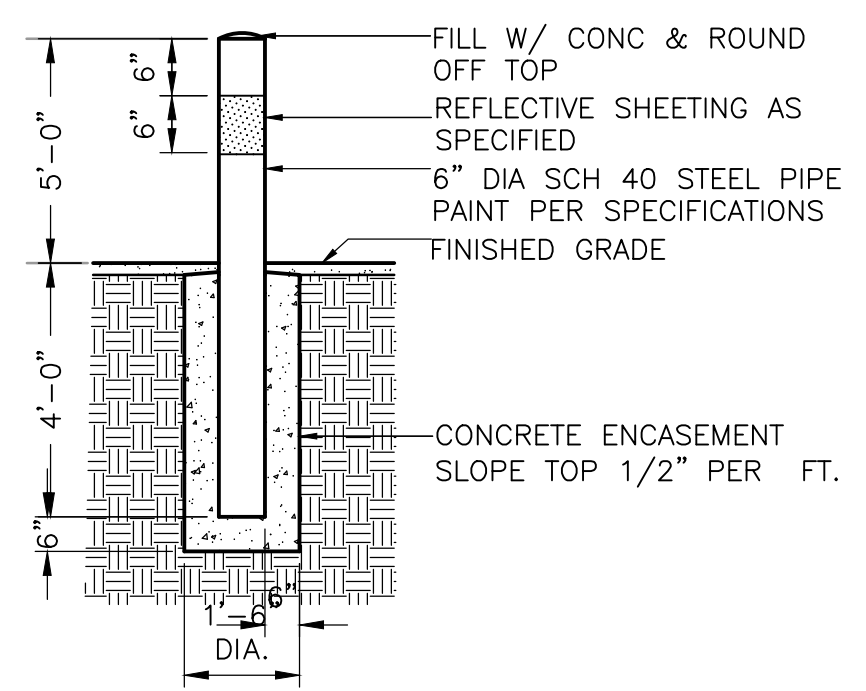


SECTION A-A



SECTION B-B

BUTTERFLY VALVE INSTALLATION (24-INCH TO 48-INCH)
DETAIL C
 NTS



STEEL PIPE BOLLARD
DETAIL D
 NTS

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 DRAWN BY: A. WELDON
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 CROSS CHK'D BY: X
 APPROVED BY: X
 DATE: JANUARY 2022



CITY OF NEW BEDFORD, MASSACHUSETTS
 WATER SYSTEM IMPROVEMENTS
 PHASE 4 TRANSMISSION MAIN
 REINFORCEMENT PROJECT

CIVIL DETAILS II
 SHEET NO.
CD-2

PROJECT NO. 0309-262802
 FILE NAME: CD02STD.DWG
 SHEET NO.
CD-2