



ADDENDUM NO. 1

TO: ALL CONTRACT DOCUMENT HOLDERS OF RECORD
ALL PROSPECTIVE BIDDERS

FROM: CDM SMITH INC.
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DATE ISSUED: FEBRUARY 26, 2015

RE: NEW BEDFORD, MASSACHUSETTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
PART II – 36-INCH TRANSMISSION MAINS
DWSRF-3870
BID NO. 15450041

BID OPENING DATE: MARCH 5, 2015 AT 2:00 PM

BID OPENING LOCATION: PURCHASING DEPARTMENT
CITY HALL, ROOM 208
133 WILLIAMS STREET
NEW BEDFORD, MASSACHUSETTS 02740

LAST WRITTEN QUESTIONS DUE: FEBRUARY 23, 2015

This Addendum No. 1, including all referenced attachments, modifies, amends, and supplements designated parts of the Contract Documents to the above-referenced project and shall be part of the Contract Documents as provided in the "Instructions To Bidders" for the above-referenced project.

Acknowledge receipt of this Addendum by inserting its number and date on page 00300-1 of the Bid Form. Failure to do so may subject the Bidder to disqualification.

The Contract Documents are hereby modified, amended and supplemented as follows:

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ATTACHMENTS

The following attachments are included with this addendum:

1. Pre-bid conference meeting report, including the attendance/sign-in sheet and City of New Bedford Equal Employment Opportunity Contract Compliance information.
2. Boring Log for Coggeshall Street at Jean Street.
3. Massachusetts Department of Transportation Sidewalk Replacement Details.
4. Revised Specification Table Of Contents.
5. Revised Section 00300 – Bid Form consisting of 21 pages, with additional forms and attachments.
6. Revised Specification Section 01014 – Construction Sequence and Special Work Requirements consisting of 10 pages.
7. Revised Specification Section 01025 – Measurement and Payment consisting of 15 pages.
8. Revised Specification Section 01500 – Temporary Facilities consisting of 10 pages.
9. Revised Specification Section 02666 – Temporary Services consisting of 5 pages.
10. Revised Specification Section 02901 – Miscellaneous Work and Cleanup consisting of 6 pages.
11. Revised Specification Appendix C – Bid Form (2 copies) printed on yellow paper for submittal of Bid Proposals.
12. Revised Drawing C-1 – Valve Work Areas I.
13. Revised Drawing C-2 – Valve Work Areas II.
14. Revised Drawing C-3 – Valve Work Areas III.
15. Revised Drawing C-4 – Valve Work Areas IV.
16. Revised Drawing C-5 – Valve Work Areas V.

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17. Revised Drawing C-9 – Coggeshall Street.

GENERAL

1. Changes and modifications in revised Specification sections are generally shown in bold/italics. Changes and modifications to Drawings are generally bubbled. This has been done for contractors' and potential bidders' convenience during review of the revised documents. It is not warranted that all changes, modifications, revisions, deletions or additions are bold/italicized or bubbled. All potential bidders should carefully review all revised documents in their entirety.

PRE-BID CONFERENCE

1. The meeting report with attendance/sign-in list and City of New Bedford Equal Employment Opportunity Contract Compliance information from the pre-bid conference held on Tuesday, February 19, 2015 at 2:00 PM at the New Bedford Wastewater Treatment Plant is attached to and included with this addendum.

SPECIFICATIONS

1. **TABLE OF CONTENTS** – **REPLACE** the Table Of Contents in the Specifications with the attached revised Specification Table of Contents.
2. **SECTION 00020 – INVITATION TO BID:** On Page 00020-2, **REPLACE** the tenth paragraph with the following revised paragraph:

“Disadvantaged Business Enterprise (DBE) goals of the Commonwealth of Massachusetts and the City of New Bedford are applicable to the total dollars paid to the construction contract. The Commonwealth of Massachusetts goals for this project are a minimum of 3.40 percent D/MBE participation and 3.80 percent D/WBE participation by certified DBEs. **The City of New Bedford goals for this project are a minimum of 11.00 percent D/MBE participation and 5.00 percent D/WBE participation by certified DBEs. The higher of the two DBE participation goals shall govern. The City of New Bedford also has minimum goals for employment (workforce utilization) of 18.00% minority and 6.90% female participation and a goal of 50% of the total employee man-hours in each trade performed by residents of the City of New Bedford.** Bidders shall submit all required completed City of New Bedford forms and completed Massachusetts Department of Environmental Protection DBE forms (EEO DEP 190, EEO-DEP-191 and the DBE Certification of United States Citizenship form) with their bid. Failure to comply with the requirements of this paragraph may be deemed to render a proposal non-responsive. No waiver of any provision of this section will be granted unless

approved by the Department of Environmental Protection (MassDEP) and the City of New Bedford, Massachusetts.”

3. **SECTION 00300 – BID FORM: REPLACE** Section 00300 – Bid Form in its entirety with the attached revised Section 00300 – Bid Form.
4. **SECTION 00500 – AGREEMENT:** On Page 00500-4, **REPLACE** Article 11.1 with the following revised Article 11.1:

“11.1 The fair share goals for disadvantaged business enterprise (DBE) participation for this contract are a minimum of 11.00 percent Disadvantaged Minority Business Enterprise D/MBE participation and 5.00 percent Disadvantaged Women Business Enterprise D/WBE participation, applicable to the total dollar amount paid for the construction contract. The City of New Bedford goals for employment (workforce utilization) for this project are 18.00% minority and 6.90% female participation and the City of New Bedford goal for the total man-hours in each trade performed by residents of the City of New Bedford for this project is 50%. The CONTRACTOR shall take all affirmative steps necessary to achieve these goals, and shall provide reports documenting the portion of contract and subcontract dollars paid to DBEs, and its efforts to achieve the goals, with each invoice submitted or at such greater intervals as specified by the Owner. The CONTRACTOR shall require similar reports from its subcontractors.”
5. **SECTION 00800 – SUPPLEMENTARY CONDITIONS:** On Page 00800-13, **DELETE** “SC-11.02A.” and **DELETE** the text that reads “Delete Article 11.02 of the General Conditions in its entirety.”
6. **SECTION 01014 – CONSTRUCTION SEQUENCE AND SPECIAL WORK REQUIREMENTS:** **REPLACE** Section 01014 – Construction Sequence And Special Work Requirements in its entirety with the attached revised Section 01014 – Construction Sequence And Special Work Requirements.
7. **SECTION 01025 – MEASUREMENT AND PAYMENT: REPLACE** Section 01025 – Measurement and Payment with the attached revised Section 01025 – Measurement and Payment.
8. **SECTION 01046 – CONTROL OF WORK:** On Page 01046-1, Paragraph 1.03.A, **REPLACE** the last sentence with the following revise sentences that read “The Owner and Engineer reserve the right to review and approve the Contractor’s proposed temporary bypass piping plan and layout for all work areas to verify that the proposed amount of existing system piping shut down and the amount of temporary bypass piping proposed for installation at any one time is in

direct proportion to the required areas of existing water mains required to be shut down to facilitate the installation of new work. The safety and integrity of the water system is of prime importance.”

9. **SECTION 01046 – CONTROL OF WORK:** On Page 01046-4, Paragraph 1.09.F, **ADD** a new sentence at the end of this paragraph that reads “Payment for this work to replace any traffic loops and signals disturbed by Contractor’s operations and required construction shall be included in the Contractor’s price for Miscellaneous Work and Cleanup.”

10. **SECTION 01046 – CONTROL OF WORK:** On Page 01046-5, **ADD** a new Paragraph 1.13.D that reads as follows:

“D. Snow plowing, removal and disposal, if required prior to or during construction, shall be performed by the Contractor in accordance with all local, State and Federal requirements.”

11. **SECTION 01445 – PIPELINE TESTING AND CLEANING:** On Page 01445-2, **REPLACE** Paragraph 3.04.B in its entirety with the following revised Paragraph 3.04.B:

“B. For Valve Work Areas shown on the Drawings, it is understood that the new valves are being installed with small sections of new piping to connect to existing water mains. The Contractor is not responsible for pressure and leakage testing the sections of existing pipelines that were shut down to facilitate installation of new work. Once the pipelines are reactivated following successful installation and testing of all new piping, fittings and valves and following cleaning and disinfection as required by AWWA 651 standards, the Contractor shall at minimum visually observe all new couplings and connection points between new piping installed and existing piping for the presence of any leaks. If any leaks are discovered, they shall be repaired by the Contractor at his/her expense, including all dewatering, cleaning, and disinfection to reactivate the pipelines once the problems have been corrected.”

12. **SECTION 01500 – TEMPORARY FACILITIES:** **REPLACE** Section 01500 – Temporary Facilities in its entirety with the attached revised Section 01500 – Temporary Facilities.

13. **SECTION 01570 – TRAFFIC REGULATION:** On Page 01570-1, **REPLACE** Paragraph 1.01.H with the following revised paragraph:

“H. Special work hour limitations are discussed in Section 01046, Section 01014, and on the Contract Plans.”

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14. **SECTION 01720 – PROJECT RECORD DOCUMENTS:** On Page 01720-1, **ADD** a new Paragraph 1.01.C that reads as follows:

“C. Engineer will provide as-built record drawings to Owner as specified in MassDEP’s Policy Memorandum No. CG-4 – Record Drawings. Contractor shall provide information as specified in this Section 01720 for Engineer’s use in preparing final as-built record drawings for the Owner.”

15. **SECTION 01720 – PROJECT RECORD DOCUMENTS:** On Page 01720-3, Paragraph 1.03.C.6.a, 5th line, **REPLACE** “commonwealth” with “Commonwealth”.

16. **SECTION 02221 – TRENCHING, BACKFILLING AND COMPACTION:** On Page 02221-1, **REPLACE** Paragraph 1.01.E in its entirety with the following revised paragraph:

“E. Wherever the requirement for 95 percent compaction is referred to herein it shall mean at least 95 percent of maximum density as determined by ASTM D1557, Method D.”

17. **SECTION 02221 – TRENCHING, BACKFILLING AND COMPACTION:** On Page 02221-5, Paragraph 3.06.D, 3rd and 4th line, **REPLACE** “of bank-run gravel” with “as shown on the Drawing details and”.

18. **SECTION 02221 – TRENCHING, BACKFILLING AND COMPACTION:** On Page 02221-5, Paragraph 3.06.F, 3rd line, **REPLACE** “92” with “95”.

19. **SECTION 02230 – GRANULAR FILL MATERIALS:** In Paragraph 2.01 – Materials, **RELABEL** all subparagraphs A through K to correct the sequential paragraph labels in this Paragraph 2.01.

20. **SECTION 02230 – GRANULAR FILL MATERIALS:** On Page 02230-3, **REPLACE** relabeled Paragraph 2.01.F in its entirety with the following revised paragraph:

“F. Crushed Stone, processed gravel, bank-run gravel and any other granular materials shown on the Drawings and not explicitly specified herein shall conform to the Massachusetts Department of Transportation Standard Specifications for Highways and Bridges, current edition, and all addenda and supplements thereto.”

21. **SECTION 02576 – PAVEMENT REPAIR AND RESURFACING:** On Page 02576-1, **REPLACE** Paragraph 1.01.C in its entirety with the following revised Paragraph 1.01.C:

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“C. The following areas shall consist of initial pavement over trenches followed by cold planing and final 1-1/2-inch pavement overlay over the entire are of limits of pavement restoration as shown on the Drawings:

1. Valve Work Area 1
2. Valve Work Area 2
3. Valve Work Area 3
4. Valve Work Area 4
5. Valve Work Area 5
6. Valve Work Area 6
7. Valve Work Area 7 (intersection of Mount Pleasant Street at Nash Road)
8. Valve Work Area 8
9. Valve Work Area 10 (intersection of Ashley Boulevard at Tarkiln Hill Road)
10. Valve Work Area 11 (intersection of Ashley Boulevard at Park Avenue)
11. Valve Work Area 12
12. Valve Work Area 13 (intersection of Ashley Boulevard at Nash Road)
13. Valve Work Area 14 (intersection of Ashley Boulevard at Deane Street)

All other areas not listed in this section shall consist of initial pavement over trenches and final bituminous pavement over trenches, including but not limited to Valve Work Area 9, Valve Work Area 15, Line Stop Work Area 1, Tarkiln Hill Road and Coggeshall Street. Valve Work Area 16 is located in a cross-country easement and shall be loamed and seeded and restored as specified.”

22. **SECTION 02576 – PAVEMENT REPAIR AND RESURFACING:** On Page 02576-6, **REPLACE** the heading for Paragraph 3.04 that currently reads “PAVEMENT MARKINGS” with the revised “PAVEMENT MARKINGS AND TRAFFIC SIGNAL EQUIPMENT”.

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23. **SECTION 02576 – PAVEMENT REPAIR AND RESURFACING:** On Page 02576-6, **ADD** a new Paragraph 3.04.B that reads as follows:

“B. Replace traffic loops and signals, if disturbed during the performance of the work, at no additional cost to the Owner. Payment for this work shall be included in the Contractor’s price for Miscellaneous Work and Cleanup.”

24. **SECTION 02616 – DUCTILE IRON PIPE AND FITTINGS:** On Page 02616-2, **ADD** a new Paragraph 1.03.I that reads as follows:

“I. Submit certified compliance statements from manufacturers verifying compliance with the American Iron and Steel (AIS) requirements of this project.”

25. **SECTION 02616 – DUCTILE IRON PIPE AND FITTINGS:** On Page 02616-6, Paragraph 2.02.A, **REPLACE** the last sentence in its entirety with the following revised sentence that reads “Gasket shall be Nitrile (NBR).”

26. **SECTION 02616 – DUCTILE IRON PIPE AND FITTINGS:** On Page 02616-8, Paragraph 2.02.D.2, **REPLACE** “SBR” with “Nitrile (NBR)”.

27. **SECTION 02640 – VALVES, HYDRANTS AND APPURTENANCES:** On Page 02640-2, **ADD** a new Paragraph 1.03.D.2 that reads as follows:

“2. Submit certified compliance statements from manufacturers verifying compliance with the American Iron and Steel (AIS) requirements of this project.”

28. **SECTION 02640 – VALVES, HYDRANTS AND APPURTENANCES:** On Page 02640-5, Paragraph 2.01.H, **REPLACE** “12-inchs” with “12-inches”.

29. **SECTION 02640 – VALVES, HYDRANTS AND APPURTENANCES:** On Page 02640-7, Paragraph 2.05.B, **REPLACE** the 5th sentence in its entirety with the revised sentence that reads “Other buried butterfly valves 20-inches and smaller shall be mechanical joint end conforming to ANSI C111.”

30. **SECTION 02640 – VALVES, HYDRANTS AND APPURTENANCES:** On Page 02640-9, Paragraph 2.06.O.2, **REPLACE** “Darling B62” with “Darling B62B”.

31. **SECTION 02640 – VALVES, HYDRANTS AND APPURTENANCES:** On Page 02640-9, **RENUMBER** Paragraph “2.08” to “2.09” and **INSERT** a new Paragraph 2.08 as follows:

“2.08 INSERTION VALVES

- A. Insertion valves shall be of a standard duty, clamp-on type, stainless steel, designated for working pressure not less than 200 psi. Insertion valve shall be capable for use on pipes ranging in size from 4 inches through 12 inches of various materials including but not limited to steel, cast iron, ductile iron, asbestos cement, PVC and PE and shall be by Hydra-Stop or approved equal.
- B. Valves shall be provided with a standard AWWA 2-inch nut and valve shall open to the right.
- C. Valve gate shall be made of SBR rubber and provide for unobstructed flow of water. Valve stem shall be made to AWWA C 500-93 Section 3.12 standards.
- D. Valve housing flange shall be heavy duty ANSI A-105, 150 lbs. rated flange.”

32. **SECTION 02640 – VALVES, HYDRANTS AND APPURTENANCES:** On Page 02640-11, **INSERT** the following new Paragraph 3.03 and **RENUMBER** all subsequent paragraphs accordingly to 3.04, 3.05, 3.06, 3.07, 3.08, and 3.09. New Paragraph 3.03 shall read as follows:

“3.03 INSTALLATION OF INSERTION VALVES

- A. The Owner shall be contacted and their permission granted prior to tapping a "live" line. The required procedures and time table shall be followed exactly.
- B. Installation shall be made under pressure and flow shall be maintained.
- C. The entire operation shall be conducted by workers experienced in the installation of insertion valves/tapping sleeves and valves. The tapping machine shall be furnished by the Contractor.
- D. Determine the location of the line to be tapped to confirm that the proposed location will be satisfactory and that no interference will be encountered such as joints or fittings. No tap or sleeve will be made closer than three feet from a pipe joint. The exact location of the tap is subject to approval by the Engineer.

- E. Prior to completing the tap, the valve shall be swabbed with chlorine solution to ensure that the valve seat is clean. All proper regulatory procedures shall be followed exactly.
 - F. Insertion valve with boxes shall be set squarely centered on the line to be tapped. Adequate support shall be provided under the sleeve and valve during the tapping operation. Thrust blocks or other permanent restraint acceptable to the Engineer shall be provided behind all tapping sleeves. Proper tamping of supporting pipe bedding material around and under the valve and sleeve is mandatory for buried installations.
 - G. After completing the tap, the valve shall be flushed to ensure that the valve seat is clean. All proper regulatory procedures (including disinfection) shall be followed exactly.
 - H. Follow manufacturer’s instructions pertaining to the installation of the tapping sleeve and tapping saddle.”
33. **SECTION 02666 – TEMPORARY SERVICES: REPLACE** Section 02666 – Temporary Services in its entirety with the attached revised Section 02666 – Temporary Services.
34. **SECTION 02901 – MISCELLANEOUS WORK AND CLEANUP: REPLACE** Section 02901 – Miscellaneous Work And Cleanup in its entirety with the attached revised Section 02901 – Miscellaneous Work And Cleanup.
35. **APPENDIX C – BID FORM (2 COPIES): REPLACE** the two copies of Section 00300 – Bid Form printed on blue paper in Appendix C with the attached two copies of revised Section 00300 – Bid Form printed on yellow paper. The revised Bid Form printed on yellow paper issued with this Addendum No. 1 shall be submitted with all Bid Proposals.

DRAWINGS

1. **LGN – LEGEND AND GENERAL NOTES:** In the GENERAL NOTES, **DELETE** “AND POLICING” in Note No. 2.
2. **LGN – LEGEND AND GENERAL NOTES:** In the GENERAL NOTES, **REPLACE** Note No. 3 with the following revised Note No. 3:

“3. THE PROJECT AREAS ARE LOCATED IN THE CITY OF NEW BEDFORD, MASSACHUSETTS AND IN THE CITY’S WATER EASEMENT IN THE TOWN OF DARTMOUTH, MASSACHUSETTS.”

3. **LGN – LEGEND AND GENERAL NOTES:** In the GENERAL NOTES, **ADD** new sentences at the end of Note No. 5 that read “TO CONVERT FROM NEW BEDFORD CITY DATUM TO N.G.V.D. (1929) MEAN SEA LEVEL DATUM ADD 2.55 FEET. TO CONVERT FROM NEW BEDFORD CITY DATUM TO N.A.V.D. (1988) ADD 1.72 FEET.”
4. **LGN – LEGEND AND GENERAL NOTES:** In the LEGEND – EXISTING symbols, **REPLACE** the “PK NAIL, WATERLINE” label with the revised “PK NAIL” label.
5. **DRAWING GP-1 – GENERAL PLAN I:** **ADD** a new Valve Work Area No. 16 in the New Bedford water easement between High Hill Reservoir and Shawmut Avenue. The new Valve Work Area No. 16 shall correspond to the same area as Existing Valve Nos. 1A, 1B and 1C. **ADD** a new note pointing to this new Valve Work Area No. 16 that reads as follows:

“**VALVE WORK AREA NO. 16 (SHEET C-5)**
REMOVE AND REPLACE NORTH TRANSMISSION MAIN, SOUTH TRANSMISSION MAIN AND INTERCONNECTION VALVES.”
6. **DRAWING GP-1 – GENERAL PLAN I:** In the note describing new work at Valve Work Area No. 2, **REPLACE** “(SHEET C-2)” with “(SHEET C-1)”.
7. **DRAWING GP-2 – GENERAL PLAN II:** In the note describing existing Valve No. 21 on the north transmission main, **REPLACE** “36-INCH” with “30-INCH”.
8. **DRAWING GP-2 – GENERAL PLAN II:** In the note describing new work at Valve Work Area No. 15, **REPLACE** “(SHEET C-6)” with “(SHEET C-5)”.
9. **DRAWING C-1 – VALVE WORK AREAS I:** **REPLACE** Drawing C-1 in its entirety with the attached revised Drawing C-1. Revisions to this Drawing include but are not necessarily limited to the following:
 - **Valve Work Area 1:** Addition of replacement of existing hydrants (one each on the north and south 36-inch transmission mains).
 - **Valve Work Area 1:** Addition of pavement restoration limits.

- **Valve Work Area 2:** Relocation of the new hydrant installation on the north 36-inch transmission main to correspond to the same location of the existing hydrant being replaced.
 - **Valve Work Area 2:** Addition of a new hydrant installation on the south 36-inch transmission main.
 - **Valve Work Area 2:** Addition of pavement restoration limits.
10. **DRAWING C-2 – VALVE WORK AREAS II: REPLACE** Drawing C-2 in its entirety with the attached revised Drawing C-2. Revisions to this Drawing include but are not necessarily limited to the following:
- **Valve Work Area 3:** Addition of pavement restoration limits.
 - **Valve Work Area 3:** Revision to note boxes to clarify that the 36-inch by 8-inch tees angled down at 45-degrees are for the new blowoff manhole.
 - **Valve Work Area 4:** Addition of pavement restoration limits.
 - **Valve Work Area 5:** Addition of pavement restoration limits.
11. **DRAWING C-3 – VALVE WORK AREAS III: REPLACE** Drawing C-3 in its entirety with the attached revised Drawing C-3. Revisions to this Drawing include but are not necessarily limited to the following:
- **Valve Work Area 6:** Addition of pavement restoration limits.
 - **Valve Work Area 7:** Addition of a new note regarding coordination of work with Owner.
 - **Valve Work Area 7:** Revisions to notes to specify both pavement restoration and sidewalk replacement within the paving limits shown.
 - **Valve Work Area 8:** Addition of the replacement of an existing hydrant.
 - **Valve Work Area 8:** Addition of pavement restoration limits.
 - **Valve Work Area 9:** Revisions to two note boxes regarding new water main work.
 - **Valve Work Area 10:** Addition of a new note regarding coordination of work with Owner.
 - **Valve Work Area 10:** Revisions to notes to specify both pavement restoration and sidewalk replacement within the paving limits shown.

12. **DRAWING C-4 – VALVE WORK AREAS IV: REPLACE** Drawing C-4 in its entirety with the attached revised Drawing C-4. Revisions to this Drawing include but are not necessarily limited to the following:

- **Valve Work Area 11:** Revision to a note box to clarify that the 36-inch by 8-inch tee angled down at 45-degrees is for the new blowoff manhole.
- **Valve Work Area 11:** Revisions to notes to specify both pavement restoration and sidewalk replacement within the paving limits shown.
- **Valve Work Area 12:** Addition of pavement restoration limits.
- **Valve Work Area 13:** Addition of a new note regarding coordination of work with Owner.
- **Valve Work Area 13:** Revision to a note pertaining to water main work, where Contractor is to remove an existing valve and install two new valves at this location.
- **Valve Work Area 13:** Revisions to notes to specify both pavement restoration and sidewalk replacement within the paving limits shown.

13. **DRAWING C-5 – VALVE WORK AREAS V: REPLACE** Drawing C-5 in its entirety with the attached revised Drawing C-5. Revisions to this Drawing include but are not necessarily limited to the following:

- **Valve Work Area 14:** Revisions to a note pertaining to new water main fittings.
- **Valve Work Area 14:** Addition of a new note regarding coordination of work with Owner.
- **Valve Work Area 14:** Revisions to notes to specify both pavement restoration and sidewalk replacement within the paving limits shown.
- **Valve Work Area 15:** Revisions to three note boxes pertaining to new work.
- **Valve Work Area 16:** Addition of Valve Work Area 16 to this Drawing, for replacement of existing valves in the easement between High Hill Reservoir and Shawmut Avenue at the same area corresponding to Existing Valve Nos. 1A, 1B and 1C (as shown on GP-1, General Plan I).

14. **DRAWING C-6 – LINE STOP WORK AREAS I:** At Line Stop Work Area 1, **REPLACE** the note that reads “LINE STOP WITH CONCRETE THRUST BLOCK. SUBMIT DESIGN CALCULATION AND REQUIRED SIZE BASED UPON LINE STOP REQUIREMENTS AS SPECIFIED.” with the following revised note that reads “LINE STOP WITH CONCRETE THRUST BLOCK. SUBMIT DESIGN

CALCULATIONS AND REQUIRED SIZE BASED UPON LINE STOP REQUIREMENTS AS SPECIFIED. EXACT LOCATION FOR LINE STOP AND CONCRETE THRUST BLOCK TO BE DETERMINED IN THE FIELD BASED UPON TEST PIT EXCAVATIONS AND LOCATIONS OF EXISTING PIPELINE JOINTS. THE EXACT LOCATION IS SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.”

15. **DRAWING C-9 – COGGESHALL STREET:** **REPLACE** Drawing C-9 in its entirety with the attached revised Drawing C-9. Revisions to this Drawing include but are not necessarily limited to the following:
 - **Jean Street:** Addition of a new note regarding coordination of work with the Coggeshall Street Sewer Separation – Phase I project.
 - **Intersection with Ashley Boulevard:** Reprinted to correspond to the same survey information shown on Drawing C-5 and addition of a note regarding coordination of work with the Coggeshall Street Sewer Separation – Phase I project.
16. **DRAWING CD-3 – WATER MAIN DETAILS II:** In the BUTTERFLY VALVE AND BOX DETAIL (BUTTERFLY VALVES 16” TO 20”), SECTION 1, **REPLACE** “5’-0”” with “4’-0”” for the minimum depth of cover from finished grade to the top/crown of the new valve.
17. **DRAWING CD-4 – VALVE DEMOLITION AND INSTALLATION DETAILS:** In the REMOVAL OF EXISTING VALVE AND MANHOLE DETAIL, **REPLACE** the note that reads “CUT AND REMOVE EXISTING WATER MAIN, VALVE, VALVE OPERATOR MANHOLE (IF PRESENT) AND BYPASS PIPING . (NOT SHOWN IF PRESENT) REPLACE WITH NEW DI PIPING VALVE AND COUPLING PER THE SPECIFIED WORK AREAS.” with the revised note that reads “CUT AND REMOVE EXISTING WATER MAIN, VALVE, VALVE OPERATOR MANHOLE (IF PRESENT) AND BYPASS PIPING (NOT SHOWN IF PRESENT). REPLACE WITH NEW DI PIPING, VALVE, FITTINGS, AND COUPLINGS PER THE SPECIFIED WORK AREAS.”
18. **DRAWING CD-6 – THRUST RESTRAINT DETAILS:** In the table of RESTRAINT LENGTH VALUES FOR DUCTILE IRON TEES, **DELETE** the thrust restraint requirements for a tee with 8-inch run diameter with 10-inch branch diameter.
19. **DRAWING CD-7 – CONCRETE THRUST BLOCK DETAILS:** **REPLACE** the two tables for THRUST BLOCK BEARING AREAS FOR DUCTILE IRON TEES with the following revised tables for THRUST BLOCK BEARING AREAS FOR HORIZONTAL BENDS and THRUST BLOCK BEARING AREAS FOR DUCTILE IRON TEES.

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PIPE DIAMETER (INCHES)	BEND ANGLE (DEGREES)	BEARING AREA (SQURE FEET)
6	11.25	1
	22.5	1
	45	2
	90	3
8	11.25	1
	22.5	2
	45	3
	90	6
10	11.25	2
	22.5	3
	45	5
	90	9
12	11.25	2
	22.5	4
	45	7
	90	12
20	11.25	5
	22.5	10
	45	19
	90	34
24	11.25	7
	22.5	14
	45	26
	90	48
30	11.25	11
	22.5	21
	45	41
	90	75
36	11.25	15
	22.5	30
	45	59
	90	108

NEW BEDFORD, MASSACHUSETTS
 TRANSMISSION MAIN REINFORCEMENT PROGRAM
 PART II - 36-INCH TRANSMISSION MAINS
 DWSRF-3870
 BID NO. 15450041
 ADDENDUM NO. 1
 FEBRUARY 26, 2015
 Page 16 of 18

THRUST BLOCK BEARING AREAS FOR DUCTILE IRON TEES		
RUN DIAMETER (INCHES)	BRANCH DIAMETER (INCHES)	BEARING AREA (SQUARE FEET)
6	4	1
	6	3
8	6	3
	8	4
10	6	3
	8	4
	10	6
12	6	3
	8	4
	10	6
	12	9
16	6	3
	8	4
	10	6
	12	9
	16	16
24	6	3
	8	4
	10	6
	12	9
	16	16
	20	24
	24	34
36	6	3
	8	4
	10	6
	12	9
	16	16
	24	34
	30	54
	36	77

WRITTEN QUESTIONS AND COMMENTS SUBMITTED

1. **QUESTION/COMMENT:** Due to the past and pending inclement weather, we request a two week postponement of the bid to the City of New Bedford.

RESPONSE: The bid opening date remains as specified. The construction contract must be awarded by April 1, 2015 based on requirements of the DWSRF program. Submit bids in accordance with the advertised date and time and in accordance with the Instructions To Bidders.

2. **QUESTION/COMMENT:** Item #6, what are the limits of the temporary service pipes required for this project?

RESPONSE: See the revisions to Section 00300 – Bid Form and Section 02666 – Temporary Services issued with this Addendum.

3. **QUESTION/COMMENT:** What buildings will be serviced by temporary mains and what is the size of service pipes and fire pipes for these buildings?

RESPONSE: See the revisions to Section 00300 – Bid Form and Section 02666 – Temporary Services issued with this Addendum.

4. **QUESTION/COMMENT:** What is the minimum size of temporary main allowed for bypass?

RESPONSE: See the revisions to Section 02666 – Temporary Services issued with this Addendum.

5. **QUESTION/COMMENT:** What sections of the 36” main can be taken out of service and how long can it be out of service?

RESPONSE: Refer to Specification Section 01014 – Construction Sequence and Special Work Requirements. This section includes detailed requirements for the Contractor to plan work accordingly.

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6. **QUESTION/COMMENT:** Bid items 11B and 11C mention infra-red pavement repairs which are not described in the Measurement and Payment. Please clarify.

RESPONSE: See the revised Section 00300 – Bid Form issued with this Addendum, which removes the infra-red pavement repairs from these bid items.

NOTE: Written responses to questions and comments received at the pre-bid meeting are included in the pre-bid meeting report issued with this Addendum.

-END OF ADDENDUM NO. 1-

Compliance; and David Ankener, representing the Massachusetts Department of Environmental Protection (MassDEP).

City of New Bedford Requirements

- Eric Cohen reviewed City of New Bedford equal employment opportunity and contract compliance requirements (see attached), prevailing wage rate requirements, certified payroll requirements and City of New Bedford requirements for affirmative action issues and residency participation.
- Bids must be submitted in accordance with the specified Instructions To Bidders and must include all required forms.

General

- Resident inspection and construction oversight will be provided by CDM Smith throughout the construction duration.
- There are requirements for contractor qualifications that potential bidders must meet. The Contractor must have experience with installation of large diameter pressurized ductile-iron water mains and valves – at least 3 projects where pressurized ductile-iron pipe, 16-inch diameter or larger was installed, including at least one project with 24-inch or larger pipe, fittings and valves (see Specification Section 02616).
- The project is funded by the MassDEP Drinking Water State Revolving Fund (DWSRF) program.
- The Contractor must meet the Disadvantaged Minority Business Enterprise (D/MBE) and Disadvantaged Women Business Enterprise (D/WBE) requirements of **BOTH** MassDEP and the City of New Bedford and must submit all required forms and documentation with their Bid Proposal as specified.
- American Iron and Steel Requirements of the DWSRF program apply to this project, as specified.
- The Bid Form must be submitted in accordance with Instructions To Bidders, including all required forms.

Project Schedule

- February 26, 2015: Last addendum issued.
- March 5, 2015: Bid opening at 2:00 PM at New Bedford City Hall, Purchasing Department.

- April 1, 2015: Anticipated award and execution of construction contract.
- The contract time is 730 calendar days.
- No work is allowed from November 1st through April 15th due to the need for temporary bypass piping to maintain water supply to users affected by shut downs.
- There are specified liquidated damages if construction is not completed within the specified contract time. Liquidated damages are \$2,500/day for each day that work is incomplete beyond the specified contract time.

Project Background and History

- The existing 36-inch cast-iron (CI) water transmission mains are owned by the City of New Bedford and operated and maintained by the City's Department of Public Infrastructure (DPI). They were originally installed in 1896 (south main) and 1910 (north main).
 - The 36-inch transmission mains begin at the City's 75-Million-Gallon (MG) High Hill Reservoir finished water storage facility in the Town of Dartmouth and travel in parallel east and southeast, through the New Bedford Regional Airport, where they then split at the intersection of Old Plainville Road/Mount Pleasant Street/Tarkiln Hill Road – the south main continues southerly along Mount Pleasant Street and the north main continues southeast along Tarkiln Hill Road and Park Avenue and then southerly along Ashley Boulevard (refer to the General Plans in the project Drawings).
 - The 36-inch transmission mains supply over 130,000 people in New Bedford and the surrounding communities that the City supplies with potable water and fire protection (combined they supply about 40% of New Bedford's total daily water system demands).
 - New valves were installed on the 36-inch transmission mains at the New Bedford Regional Airport in 2012/2013.
 - The new valves that are to be installed as part of this project are needed to replace existing, inoperable valves for proper isolation and flow control along these transmission mains.

Project Summary

The work for this project includes, but is not necessarily limited to the following:

- Installation of temporary bypass piping, hydrants and service connections to maintain water supply. The anticipated extent of water main shut downs and affected areas are defined on the Drawings and in the Specifications.

- Removal of existing valves and installation of new main line and interconnection valves (with manual air release valves) at several locations along the 36-inch transmission mains downstream of High Hill Reservoir (see the General Plans on the Drawings).
- Installation of two new blow-off/pump-out manholes at two Valve Work Areas.
- Replacement of the existing water main in Tarkiln Hill Road from Park Avenue/Worcester Street to Ashely Boulevard.
- Replacement of the existing water main in Coggeshall Street from Ashley Boulevard to just east of Purchase Street.
- Replacement of existing lead service connections in project work areas, if encountered during construction.
- Installation of one line stop with concrete thrust block to facilitate shut down of the existing south 36-inch transmission main for Valve Work Areas.
- All required pipeline dewatering, testing, disinfection and refilling as specified.
- On-site pressure and leakage pressure testing of all new 24- and 36-inch butterfly valves before installation.
- Pavement restoration as specified.

Construction Sequence and Special Work Requirements

- Construction Sequence and Special Work Requirements are specified in Section 01014.
- Submittals that are required from Contractor for Engineer and Owner review and approval include, but are not limited to:
 - Construction schedules and proposed sequences of work
 - Shut down and isolation plans for all work areas
 - Temporary bypassing piping and water supply plans for all work areas
 - Dewatering plans for all existing water mains and work areas
 - Traffic management and detour plans for all work areas

- Construction of the Coggeshall Street Sewer Separation – Phase I project will occur simultaneously as this project and some work areas overlap the two projects. The Contractor is required to coordinate all work with the concurrent Coggeshall Street Sewer Separation – Phase I project.
- One 36-inch transmission main must be in service at all times during construction (except Valve Work Area No. 3 at Old Plainville Road/Mount Pleasant Street/Tarkiln Hill Road) to maintain water supply and fire protection to the City’s water distribution system.
- In general, only one work area will be allowed to be constructed at a time, unless work areas require the same isolation and shut down extents.
- Valve Work Area No. 3 (Old Plainville Road/Mount Pleasant Street/Tarkiln Hill Road) can only be constructed if both 36-inch mains are offline. Therefore, this is the only work area where both 36-inch transmission mains will be allowed to be shut down at the same time. However, the work at Valve Work Area No. 3 cannot occur from June through mid-September during high water demands and work at Valve Work Area No. 3 also cannot occur when the 48-inch water main in Belleville Avenue is offline for the Coggeshall Street Sewer Separation – Phase I project.
- The 42-inch transmission main from High Hill Reservoir must always be in service at all times during construction.
- Construction work along Tarkiln Hill Road and Ashley Boulevard will occur directly adjacent to New Bedford Fire Station No. 9 and Police Station No. 3. Fire, Police and EMS personnel, equipment and vehicles must always have access to and from Fire Station No. 9 and Police Station No. 3 along Ashley Boulevard and Tarkiln Hill Road at all times during construction.
- Due to high traffic volume, night work is required at:
 - Mount Pleasant Street at Nash Road
 - Ashley Boulevard at Tarkiln Hill Road
 - Ashley Boulevard at Nash Road
 - Ashley Boulevard at Deane Street
 - Ashley Boulevard at Coggeshall Street

General Discussion and Questions

CDM Smith encouraged all potential bidders to visit the project areas and sites prior to submitting a Bid Proposal.

All attendees were reminded that only questions answered by formal written Addenda are binding in accordance with the Instructions To Bidders in the Specifications. Oral and other clarifications or interpretations (including those asked and any responses at the pre-bid meeting) are without legal effect. Questions received at today's pre-bid meeting will be answered in the meeting report issued by formal written Addenda. All attendees were also asked to submit any verbal question from today's pre-bid meeting in writing. All written questions must be received in writing by CDM Smith, 260 West Exchange Street, Suite 300, Providence, Rhode Island 02903 Attn: Matthew P. Gallant, P.E., gallantmp@cdmsmith.com, Fax: 401-457-0316 at least ten days (by Monday, February 23rd) before the date set for the opening of bids. It is the responsibility of the persons submitting questions to verify that their questions are received.

1. **QUESTION/COMMENT:** There is a conflict between City and MassDEP bid form submittal requirements for DBE forms that are due with the bid and those due within three days of the bid opening.

RESPONSE: See the revisions made to the Specifications by Addenda for clarification.

2. **QUESTION/COMMENT:** Is there an allowance for bypass piping linear footage, any anticipated bypass piping plan, anticipated number of service connections that will need to be supplied by the temporary bypass piping, any anticipated inoperable side line/side street water main valves? Do side line valves operate and have they been working? Can you provide distribution maps for the sideline valves and service connections for work areas? The temporary bypass piping is a large part of this project.

RESPONSE: See the revisions to Section 00300 – Bid Form and Section 02666 – Temporary Services issued by Addenda. Water distribution system records and plans are available for examination by contacting the City of New Bedford Department of Public Infrastructure during their normal business hours. Regarding side line valves, see the response to a subsequent question herein.

3. **QUESTION/COMMENT:** In the recent bid for the City's on-call contract, there were bid items included for valve replacements. Has any work been done recently under the City's on-call contract to replace any valves along the 36-inch water transmission mains? Provide as-built drawings if relevant to this project.

RESPONSE: No work was done under the City’s recent on-call contract to replace existing valves on the 36-inch water transmission mains and therefore there are no as-built drawings available.

4. **QUESTION/COMMENT:** What is the outside diameter of the existing 36-inch water transmission mains?

RESPONSE: As required on the Drawings and in the Specifications, the Contractor is required to excavate test pits to measure the outside diameter of the existing 36-inch water transmission mains at all work locations for the purpose of ordering and fabricating new materials needed for this project.

5. **QUESTION/COMMENT:** What is the anticipated depth of the existing 36-inch water transmission mains? Are any profiles of the existing pipelines available, specifically profiles that show the depths at the work areas?

RESPONSE: There are currently no profiles available of the existing 100-year old, 36-inch water transmission mains. When new valves were installed on the 36-inch transmission mains at the New Bedford Regional Airport in 2012/2013, the depth of the top of existing 36-inch transmission mains at the Airport was found to generally be between two and six feet. Contractor shall excavate test pits as needed and as specified to confirm depths of existing water transmission mains.

6. **QUESTION/COMMENT:** How long are temporary shutdowns allowed of existing water mains without the need to install temporary bypass piping and service connections?

RESPONSE: See Section 01046 – Control Of Work, Paragraph 1.03.B.

7. **QUESTION/COMMENT:** Can additional line stops be added at the Contractor’s discretion and expense?

RESPONSE: If the Contractor wishes to install additional line stops at their discretion and expense, including to reduce the amount of temporary bypass piping to be installed, the Contractor shall be sure to include the cost of such line stops in their total bid price for the project based on their proposed means and methods to complete the project. All line stops and concrete thrust blocks shall be designed by the Contractor’s registered Professional Engineer as specified, for a pressure of 100 psi as specified in Section 02767 – Pipeline Hot Tapping and Line Stopping. Locations of proposed additional line stops are subject to the review and approval of the Engineer and Owner during construction.

8. **QUESTION/COMMENT:** Can solid sleeves and couplings be added at the Contractor’s discretion?

RESPONSE: The location of required couplings is shown on the Drawings. The use of couplings and solid sleeves shall be as specified. The locations that Contractor proposes for any additional couplings or solid sleeves is subject to the review and approval of the Engineer and Owner during construction. All specified thrust restraint requirements on the Drawings and in the Specifications shall be met by the Contractor.

9. **QUESTION/COMMENT:** What are the anticipated pressures along the existing 36-inch water transmission mains?

RESPONSE: The average operating pressures along the existing 36-inch water transmission mains range from 60 to 100 pounds per square inch (psi).

10. **QUESTION/COMMENT:** Can the Contractor perform additional night work at their request at other areas that are not required to be constructed at night? Will this be considered overtime? What is the rate for the Engineer’s resident inspection services that the Contractor must pay for work in excess of 8 hours per day? How is additional overtime determined?

RESPONSE: Refer to Section 00800 – Supplementary Conditions, Page 00800-7, SC-6.02, which defines regular working hours, overtime, and the rate that Contractor is required to reimburse the Owner for additional engineering services for any overtime. Additional night work other than what is specified is subject to the review and approval of the Engineer and Owner on a case-by-case basis during construction based on, but not limited to, the areas proposed for night work by the Contractor, locations (i.e., residential, business, commercial, etc. areas), traffic management, potential noise from construction equipment, the safety and integrity of the water system, and the special work requirements and special provisions as stipulated in the Specifications.

11. **QUESTION/COMMENT:** When will the City perform shut downs of existing water mains? Will the City start shut downs of existing water mains during off hours?

RESPONSE: Shut downs and isolation of existing water mains shall be coordinated with the Owner during construction based on the Contractor’s water main isolation and dewatering needs for their proposed approach and sequence of work.

12. **QUESTION/COMMENT:** Will the City perform test shut downs prior to the Contractor’s mobilization to perform the work?

RESPONSE: The Owner will attempt to operate all valves needed for shut downs and dewatering prior to construction. The existing 30- and 36-inch water transmission main

valves were just inspected in 2014 and their anticipated operability status is shown on the General Plans.

13. **QUESTION/COMMENT:** If shut down is greater than the specified 100 gallons per minute leakage rate that the Contractor is required to handle, how is this handled? Change Order?

RESPONSE: This will be handled on a case-by-case basis during construction, should any leakage rate actually exceed the specified 100 gallons per minute.

14. **QUESTION/COMMENT:** Are there any borings available for the work along Coggeshall Street? Is there any anticipated cobblestone or trolley tracks beneath the roadways in any of the project areas?

RESPONSE: There is a boring available for the intersection of Coggeshall Street at Jean Street. This boring log will be provided by Addenda. Cobblestones and trolley tracks are not anticipated in the areas of this project. However, if they are encountered, their removal will be paid for as rock excavation and removal as specified.

15. **QUESTION/COMMENT:** As it relates to surface restoration, what exists (pavement, sidewalks, grass, etc.) at the various work areas?

RESPONSE: Required restoration areas are as shown on the survey on the Drawings. As specified in Section 00100 – Instructions To Bidders, Paragraph 3.2, “Before submitting a Bid, Bidders may, at their own expense, make such additional investigations and tests as they may deem necessary to determine their Bid for performance of the Work in accordance with the time, price and other terms and conditions of the Contract Documents.”

16. **QUESTION/COMMENT:** Who pays for the services of needed police details?

RESPONSE: Policing shall be as specified in Section 01576 – Policing and in accordance with Policy Memorandum No. CG-15 in Section 00800 – Supplementary Conditions. In accordance with Policy Memorandum No. CG-15 in Section 00800 – Supplementary Conditions, it is the Owner’s responsibility to pay for police details.

17. **QUESTION/COMMENT:** There is a conflict with the sizes of required temporary bypass piping in the Specifications.

RESPONSE: See the revisions to Section 02666 – Temporary Services issued by Addenda.

18. **QUESTION/COMMENT:** Is there a limit for the maximum amount of temporary bypass piping that will be allowed to be installed and active during construction?

RESPONSE: See the revisions to Section 02666 – Temporary Services issued by Addenda.

19. **QUESTION/COMMENT:** What is the estimated cost of this project?

RESPONSE: The estimated cost of this project is between \$4 million and \$6 million.

20. **QUESTION/COMMENT:** What are the pressure testing requirements for new piping, butterfly valves, fittings, couplings, etc.? Do any of these requirements pertain to existing piping that the new butterfly valves will be connected? Is pressure testing where new butterfly valves and piping connect to existing piping limited to the butterfly valves only?

RESPONSE: Pressure testing for the new 24-, 30- and 36-inch water transmission main valves is specified in Section 01445 – Pipeline Testing and Cleaning, Paragraph 3.04. Additional pressure testing requirements for new piping, valves and fittings in other areas shall be as specified in Section 01445 – Pipeline Testing and Cleaning and Section 02616 – Ductile Iron Pipe and Fittings.

21. **QUESTION/COMMENT:** Is swabbing allowed to disinfect the connections to existing water mains for 1-day tie-ins?

RESPONSE: All disinfection shall be in accordance with AWWA C651 – Disinfecting Water Mains. As specified in several locations throughout the Specifications, where reference is made to a specified standard, “the revision in effect at the time of bid opening shall apply.”

22. **QUESTION/COMMENT:** What is the anticipated pressure at the proposed line stop location?

RESPONSE: The average operating pressure at the proposed Line Stop Work Area 1 is about 65-70 psi. Design requirements for line stops and associated concrete thrust blocks is specified in Section 02767 – Pipeline Hot Tapping and Line Stopping, Page 02767-2, Paragraphs 1.04.C and 2.01.B.

23. **QUESTION/COMMENT:** Will alternative line stops be acceptable, especially if they require a smaller cut into the pipe, less concrete for the thrust block and saves time?

RESPONSE: The Engineer and Owner will evaluate potential line stop alternatives for potential modifications to the project Specifications provided that any proposed alternate line stops with supporting information are submitted prior to the last day for written questions as specified in the Instructions To Bidders. Otherwise, line stops shall be as specified.

24. **QUESTION/COMMENT:** What street opening permits are required and is there a cost to the Contractor? Will the City's permit fees be waived?

RESPONSE: City of New Bedford Permits are defined in Section 01170 – Special Provisions, Paragraphs 1.07.C and 1.07.D. The Contractor is responsible for paying all permitting fees required by the City of New Bedford. Additional information on City permits can be obtained by the Contractor by requesting a copy of the latest City of New Bedford Construction Specifications through the New Bedford Department of Public Infrastructure.

25. **QUESTION/COMMENT:** Are there areas where night work would specifically be prohibited?

RESPONSE: At this time, there are no work areas that would specifically be prohibited for night work. However, additional night work proposed by the Contractor other than what is specified to be constructed at night is subject to the review and approval of the Engineer and Owner on a case-by-case basis during construction. Engineer and Owner review during construction will be based on, but not limited to, the areas proposed for night work by the Contractor, locations (i.e., residential, business, commercial, etc. areas), time of year, traffic management, potential noise from construction equipment, safety and protection of the water system, and the special work requirements and special provisions as stipulated in the Specifications.

26. **QUESTION/COMMENT:** There is a 22 week lead time on the specified large diameter butterfly valves. Is this considered in the project schedule and contract time?

RESPONSE: The contract time is as specified. Contractor shall plan work accordingly, including procuring required materials, as needed, to meet the materials specifications and the specified contract time.

27. **QUESTION/COMMENT:** The specified Pratt butterfly valve bodies are made in China and assembled in the United States. Please advise regarding meeting the required American Iron and Steel requirements of the project.

RESPONSE: CDM Smith contacted several valve manufacturers, including Pratt and Mueller, which are the two specified manufacturers for butterfly valves. Valve manufacturers indicated that they can make butterfly valves to comply with the specified American Iron and Steel requirements. Contractor shall plan work accordingly, including procuring required materials with their associated lead times, to meet the Specifications and the specified contract time.

28. **QUESTION/COMMENT:** Is there a linear foot allowance for temporary bypass piping?

RESPONSE: See the revisions to Section 00300 – Bid Form and revisions to Section 02666 – Temporary Services issued by Addenda.

29. **QUESTION/COMMENT:** What size of temporary bypassing piping and service connections are anticipated? The lump sum bid item for all temporary bypass piping is hard to plan the required temporary bypass piping.

RESPONSE: See the revisions to Section 00300 – Bid Form and revisions to Section 02666 – Temporary Services issued by Addenda.

30. **QUESTION/COMMENT:** Are the temporary bypass piping street crossings to be restored with pavement patches?

RESPONSE: Temporary bypass piping street crossings are to be restored with initial and permanent trench-width paving.

31. **QUESTION/COMMENT:** Can 36-inch anchor tees be used for the installation of new 36-inch valves and interconnection valves at the Valve Work Areas?

RESPONSE: No. Anchor tees cannot be used for the installation of new 24-, 30-, and 36-inch valves at the Valve Work Areas.

32. **QUESTION/COMMENT:** Please clarify in further detail the length of restraint required for the various work areas.

RESPONSE: The Contractor is responsible for restraining all of the pipe, fittings and valves that they install as part of new work for this project as shown on the Drawings and as specified.

33. **QUESTION/COMMENT:** Can lock gaskets be used as a restraint?

RESPONSE: Acceptable thrust restraint shall be as specified in Section 02616 – Ductile Iron Pipe and Fittings, Page 02616-7, Paragraph 2.02.C. This paragraph states “Restraint for push on joint pipe shall be positive locking "Locked-type" joints manufactured by the pipe and fitting manufacturer that utilize restraint independent of the joint gasket.” Alternatively, as specified in Section 02616, Page 02616-7, Paragraph 2.02.C.6, EBAA Iron Megalug Series 1100 or approved equal is also acceptable for restraint of pipe, fitting and valve joints.

34. **QUESTION/COMMENT:** Can tapping sleeves be used in the appropriate situation?

RESPONSE: Yes, tapping sleeves can be used as specified for the situations defined in the project Drawings and Specifications. If there are other “situations” where Contractor wishes

to propose the installation of tapping sleeves for other purposes, these shall be reviewed on a case-by-case basis by Engineer and Owner during construction.

35. **QUESTION/COMMENT:** Please provide an updated bidders list.

RESPONSE: The City of New Bedford Purchasing Department is handling distribution of the Contract Documents. The updated bidders list can be obtained by contacting the New Bedford Purchasing Department at City Hall, 133 Williams Street, Room 208, New Bedford, MA 02740, Phone: 508-979-1432.

NOTE: The information contained in this report reflects our understanding of topics discussed and the verbal questions submitted at the above meeting.

CITY OF NEW BEDFORD, MASSACHUSETTS
 TRANSMISSION MAIN REINFORCEMENT PROGRAM
 PART II - 36-INCH TRANSMISSION MAINS

DWSRF-3870

BID NO. 15450041

PRE-BID CONFERENCE MEETING

THURSDAY, FEBRUARY 19, 2015 AT 2:00 PM

NEW BEDFORD WASTEWATER TREATMENT PLANT

1000 EAST RODNEY FRENCH BOULEVARD, NEW BEDFORD, MASSACHUSETTS

ATTENDANCE LIST

<u>NAME</u>	<u>AGENCY/COMPANY NAME & ADDRESS</u>	<u>PHONE</u>	<u>FAX</u>	<u>EMAIL</u>
Math Gallant	CDM Smith 360 W. Exchange St., Suite 300 Providence, RI 02903	401-457-0316	401-457-0316	gallantmp@cdmsmith.com
ROLA HASSOUN	CDM SMITH 260 W. EXCHANGE ST. SUITE 300 PROVIDENCE, RI 02903	401-457-0381		hassoun.rh@cdmsmith.com
DAVID ANKENER	MA DEP	617 292 5896 781 254 2273	617 292 5850	David.A.anker@state.ma.us
Edward Almeida	The Dow Company	978-682-1414	978-654-5191	bdow@thedow.com
ALAN BISZKO	BISZKO CONTRACTING COMP	508-679-0518	508-679-9144	ABISZKO@BISZKO CORP.COM
Michael Biszko	Biszko Contracting Comp	508-679-0518	508-679-9144	Mike B @ BFSZKOcorp.com
John Barb	Fed Corp	774-217-2621		vbauld@ FedCorporation.com
Domina D'Amore	South Shore Pipeline Services	781-829-9373	781-829-9373	SSPipeline@ SSP.com
SEAN HARTT	510 GORHAM CONTRACTING 14 PENNAK AVE WILKPOLE	508-328-8736	508-660-8602	SH@ss.com
James Ricci	City of New Bedford	508-979-1603		James.Ricci@ NewBedford-ma.gov

CITY OF NEW BEDFORD, MASSACHUSETTS
 TRANSMISSION MAIN REINFORCEMENT PROGRAM
 PART II - 36-INCH TRANSMISSION MAINS
 DWSRF-3870

BID NO. 15450041

PRE-BID CONFERENCE MEETING

THURSDAY, FEBRUARY 19, 2015 AT 2:00 PM

NEW BEDFORD WASTEWATER TREATMENT PLANT

1000 EAST RODNEY FRENCH BOULEVARD, NEW BEDFORD, MASSACHUSETTS

ATTENDANCE LIST

<u>NAME</u>	<u>AGENCY/COMPANY NAME & ADDRESS</u>	<u>PHONE</u>	<u>FAX</u>	<u>EMAIL</u>
Bob Rion	John Roaching Corp 514 Main Street Rochester, NY	701-944-5565	701-944-5310	Bob.Rion@JohnRoachingCorp.com

**City of New Bedford
Equal Employment Opportunity
Contract Compliance**

PREBID CONFERENCE

All potential bidders (contractors and subcontractors) for City of New Bedford public works Construction projects, must adhere to the Equal Employment Opportunity / Affirmative Action (EEO/AA) requirements throughout the life of the contract. These include, but are not limited to:

- a. **ANY PROJECT OVER \$50,000. MUST HAVE PARTICIPATION OF MINORITY BUSINESS ENTERPRISES (MBE) AT 11 % OF THE TOTAL BID, AND WOMEN BUSINESS ENTERPRISES (WBE) AT 5 % OF THE TOTAL BID. AIRPORT PROJECTS MUST HAVE A 4% DISADVANTAGED BUSINESS ENTERPRISES PARTICIPATION.**
- b. **EMPLOYEE WORK-HOURS ON ALL PROJECTS HAVE MINIMUM GOALS OF 18% MINORITY PARTICIPATION, 6.9% FEMALE PARTICIPATION AND FOR PROJECTS \$100,000.+, 50% CITY OF NEW BEDFORD RESIDENTS;**
- c. **ALL SUB-CONTRACTORS ARE OBLIGATED BY THESE REQUIREMENTS AND ARE RESPONSIBLE TO THE PRIME CONTRACTOR;**
- d. **ALL THE EEO/AA DOCUMENTS INCLUDED IN THE "INSTRUCTIONS TO BIDDERS FOR AFFIRMATIVE ACTION" SECTION OF THE CONTRACT MUST BE COMPLETED AND SIGNED AND PRESENTED AT THE TIME OF THE BID SUBMISSION;**
- e. **ANY CONTRACTOR REQUIRING ASSISTANCE IN ATTAINING THE STATED GOALS FOR MBE/WBE/DBE COMPLIANCE MAY CONTACT THE STATE OFFICE OF MINORITY AND WOMEN BUSINESS ASSISTANCE (SOMWBA) AT (617)727-8692.**
- f. **GENERAL CONTRACTORS AND SUBCONTRACTORS ARE ENCOURAGED TO PAY PARTICULAR ATTENTION TO SECTION AA.03 CITY OF NEW BEDFORD ORDINANCES- SYNOPSIS WHICH IS INCLUDED IN THE "INSTRUCTIONS TO BIDDERS PACKAGE". (ESPECIALLY, THE REQUIREMENT FOR A BONAFIDE APPRENTICESHIP PROGRAM.)**

Please refer to the "Instructions to Bidders for Affirmative Action" section for further details. Any questions regarding EEO/AA requirements may be directed to:

Contract Compliance Manager
133 William St. Room 208
New Bedford, MA 02740
Telephone: (508)979-1446
Fax No.: (508)991-6148

TEST BORING LOG

SHEET

Soil Exploration Corp.
 Geotechnical Drilling
 Groundwater Monitor Well
 148 Pioneer Drive
 Leominster, MA 01453
 978 840-0391

Camp Dresser & McKee, Inc.
Site: Sewer Separation Project
New Bedford, MA

BORING B-CS-31

PROJECT NO. 05-0339

DATE: May 3, 2005

Ground Elevation:
 Date Started: April 28, 2005
 Date Finished: April 28, 2005
 Driller: GG
 Soil Engineer/Geologist:

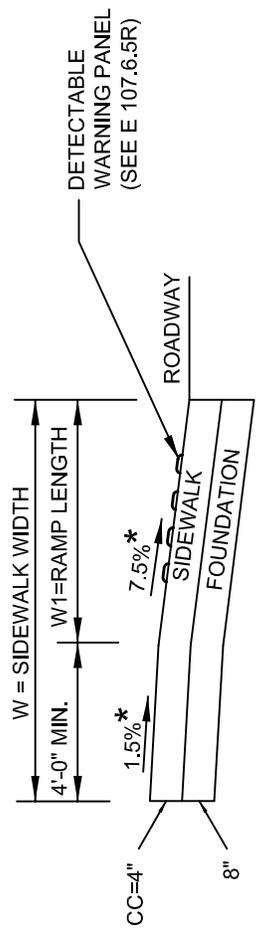
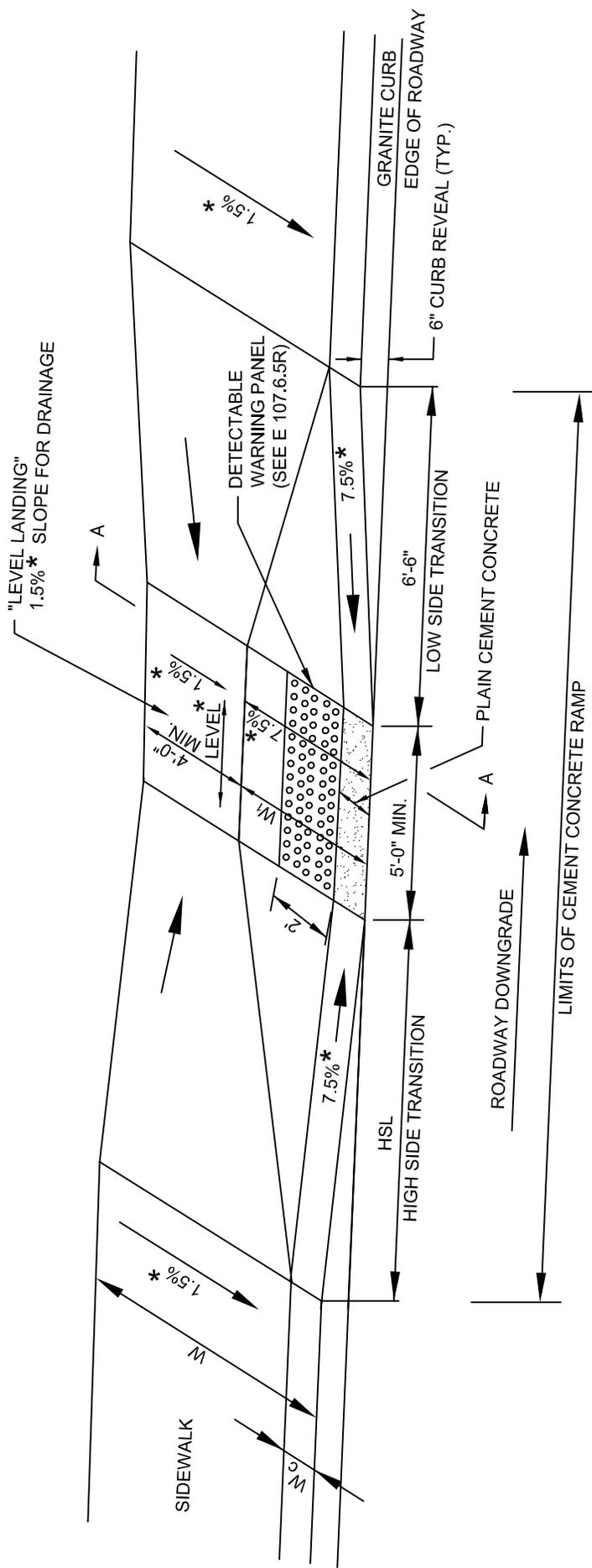
GROUNDWATER OBSERVATIONS

DATE	DEPTH	CASING	STABILIZATION

Depth Ft.	Casing bl/ft	Sample				Strata	Visual Identification of Soil and / or Rock Sample
		No.	Pen/Rec	Depth	Blows/6"		
1		1		0'1"-2'1"	11-12-12-12	0'1"	Asphalt - 0'1"
		2		2'1"-4'1"	9-9-11-9		Medium dense, dry, fine to coarse sand, trace fine to medium gravel, trace inorganic silt.
5		3		5'0"-7'0"	5-7-7-7	5'0"	Medium dense, wet, fine to coarse sand, trace fine to coarse gravel, some organic silt.
						7'0"	
10		4		10'0"-12'0"	12-15-17-20	12'0"	Dense, wet, fine to coarse sand and gravel, trace cobbles, trace inorganic silt.
15							End of boring at 12'0" with hollow stem auger. Water level at 6'0 upon completion.
20							
25							
30							
35							
39							

Notes: Hollow Stem Auger Size - 4-1/4"

Cohesionless: 0 - 4 V. Loose, 4 - 10 Loose, 10 -30 M Dense, 30 -50 Dense, 50+ V Dense. Cohesive: 0 -2 V Soft, 2 -4 Soft, 4 -8 M Stiff 8 -15 Stiff, 15 -30 V. Stiff, 30 + Hard.	Trace 0 to 10% Little 10 to 20% Some 20 to 35% And 35% to 50%	ID SIZE (IN) HAMMER WGT (LB) HAMMER FALL (IN)	CASING SAMPLE CORE TYPE	S/S 140 Lb. 30"
---	--	---	-------------------------------	-----------------------



LEGEND

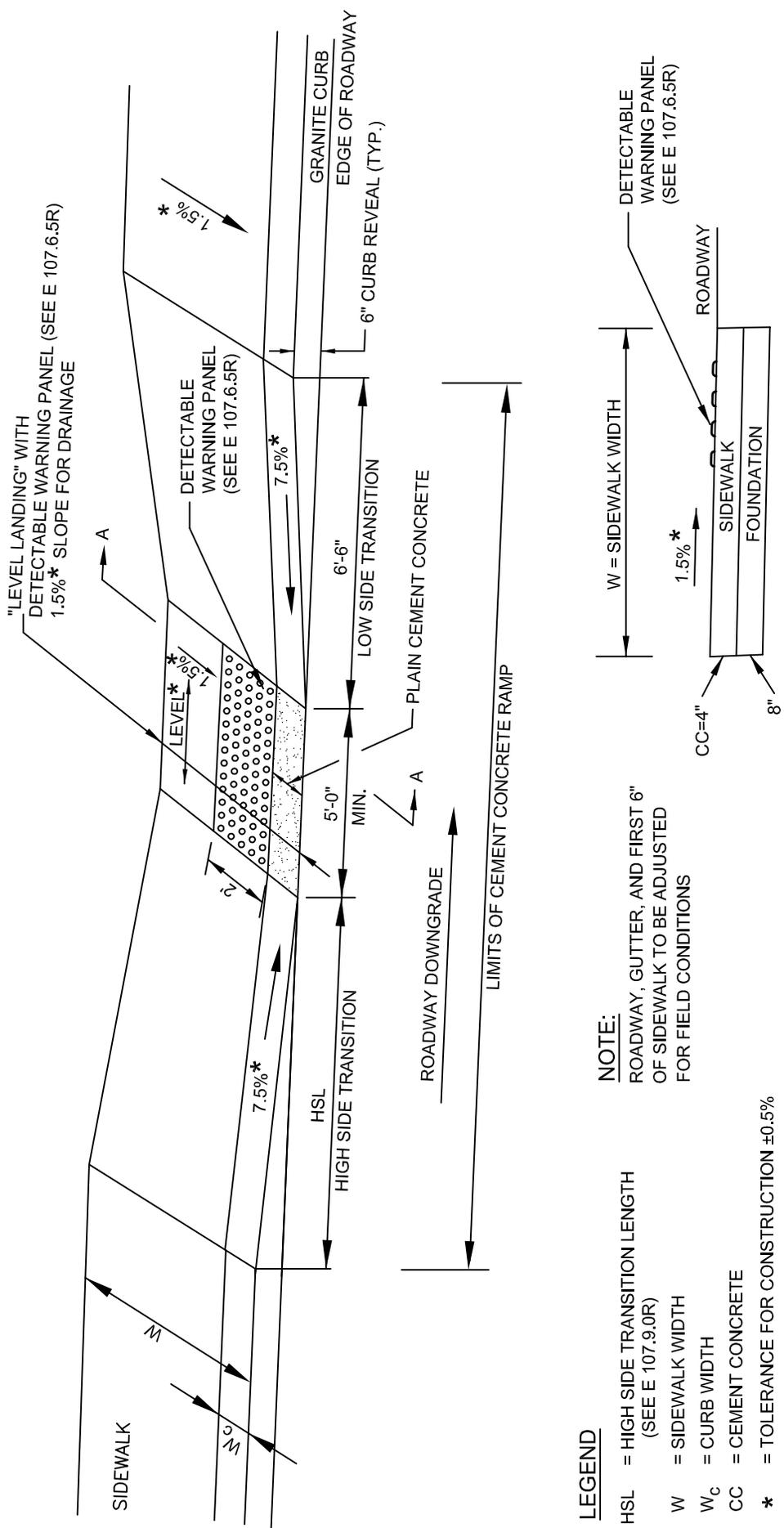
- HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.9.0R)
 - W = SIDEWALK WIDTH
 - W_C = CURB WIDTH
 - W₁ = PERPENDICULAR RAMP LENGTH
 - CC = CEMENT CONCRETE
 - * = TOLERANCE FOR CONSTRUCTION ±0.5%
- USABLE SIDEWALK WIDTH PER AAB = W-W_C
 RAMP LENGTH, W₁ = W-4'-0" Min



WHEELCHAIR RAMPS LESS THAN 12'-4" SIDEWALK

DATE OF ISSUE
JUNE 2014

DRAWING NUMBER
E 107.2.0

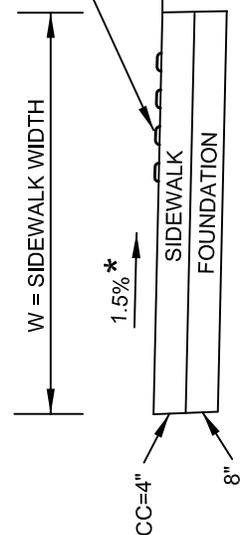


NOTE:
 ROADWAY, GUTTER, AND FIRST 6"
 OF SIDEWALK TO BE ADJUSTED
 FOR FIELD CONDITIONS

LEGEND

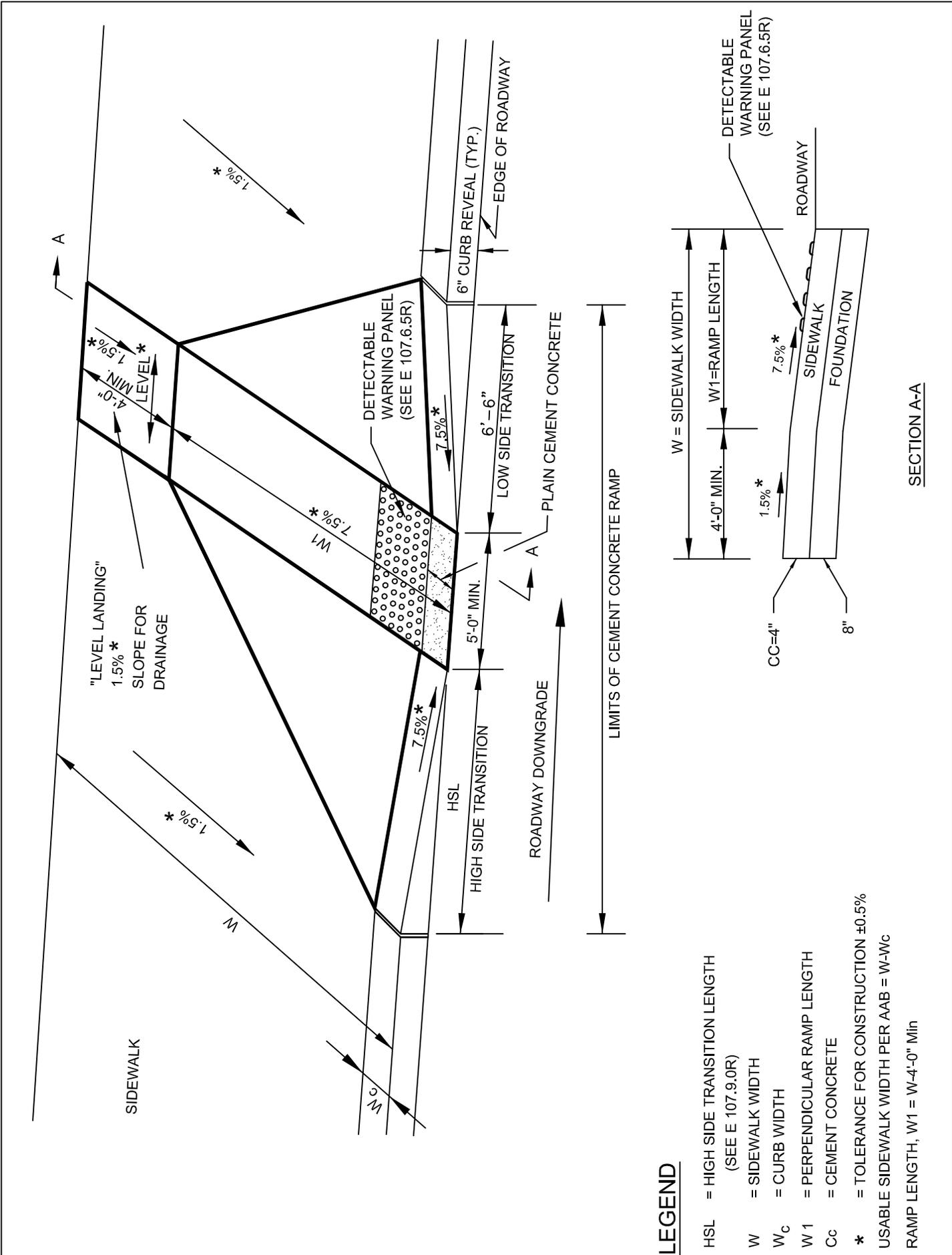
- HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.9.0R)
- W = SIDEWALK WIDTH
- W_C = CURB WIDTH
- CC = CEMENT CONCRETE
- * = TOLERANCE FOR CONSTRUCTION ±0.5%

USABLE SIDEWALK WIDTH PER AAB = W-W_C
 USABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'0"
 SEE E 107.6.5R FOR DETAILS OF DETECTABLE WARNING PANEL



SECTION A-A

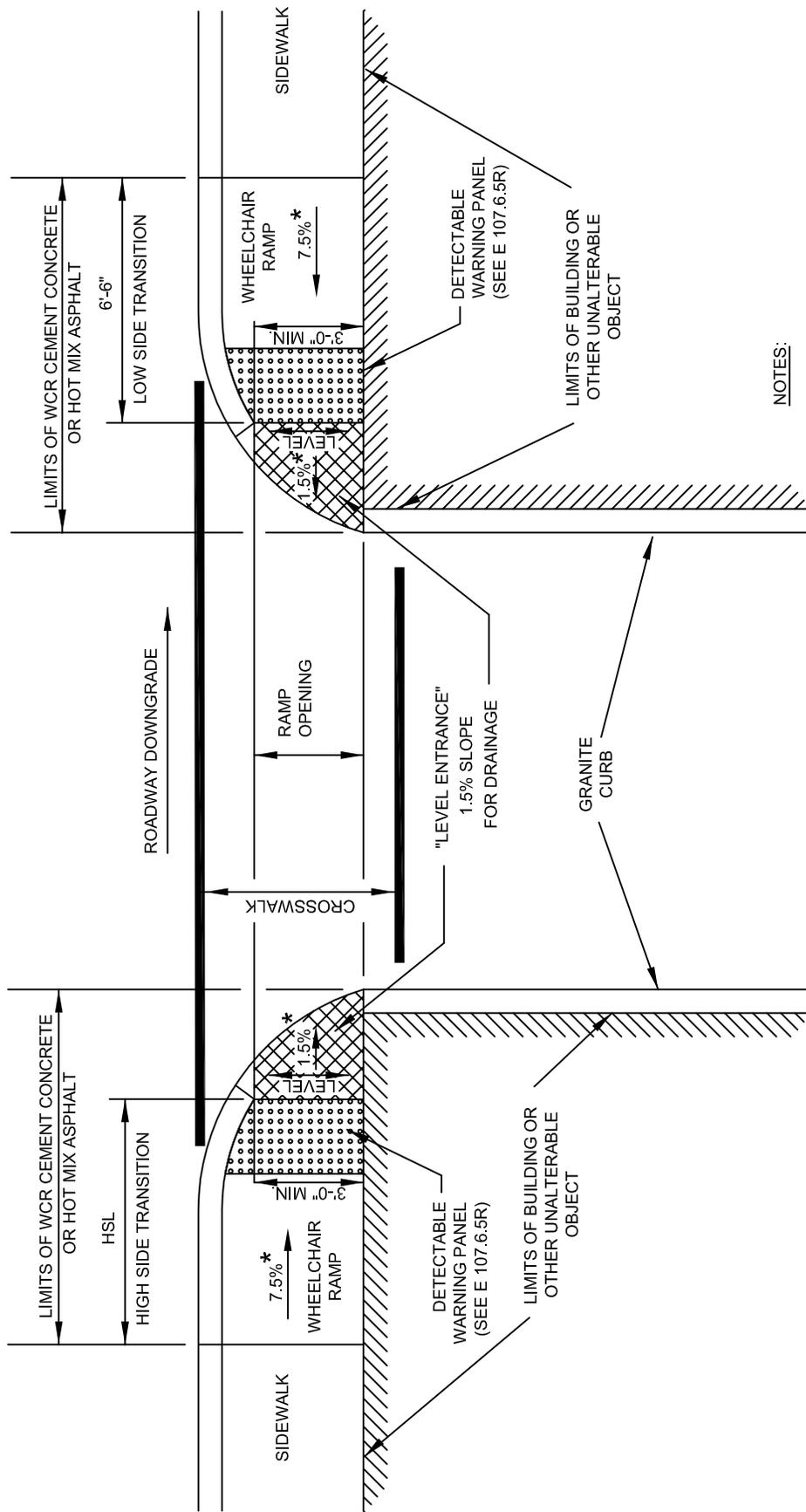
WHEELCHAIR RAMP ON NARROW SIDEWALK WITH DETECTABLE WARNING PANEL



WHEELCHAIR RAMPS GREATER THAN 12'-4" SIDEWALK

DATE OF ISSUE JUNE 2014
DRAWING NUMBER E 107.3.0

SECTION A-A



NOTES:

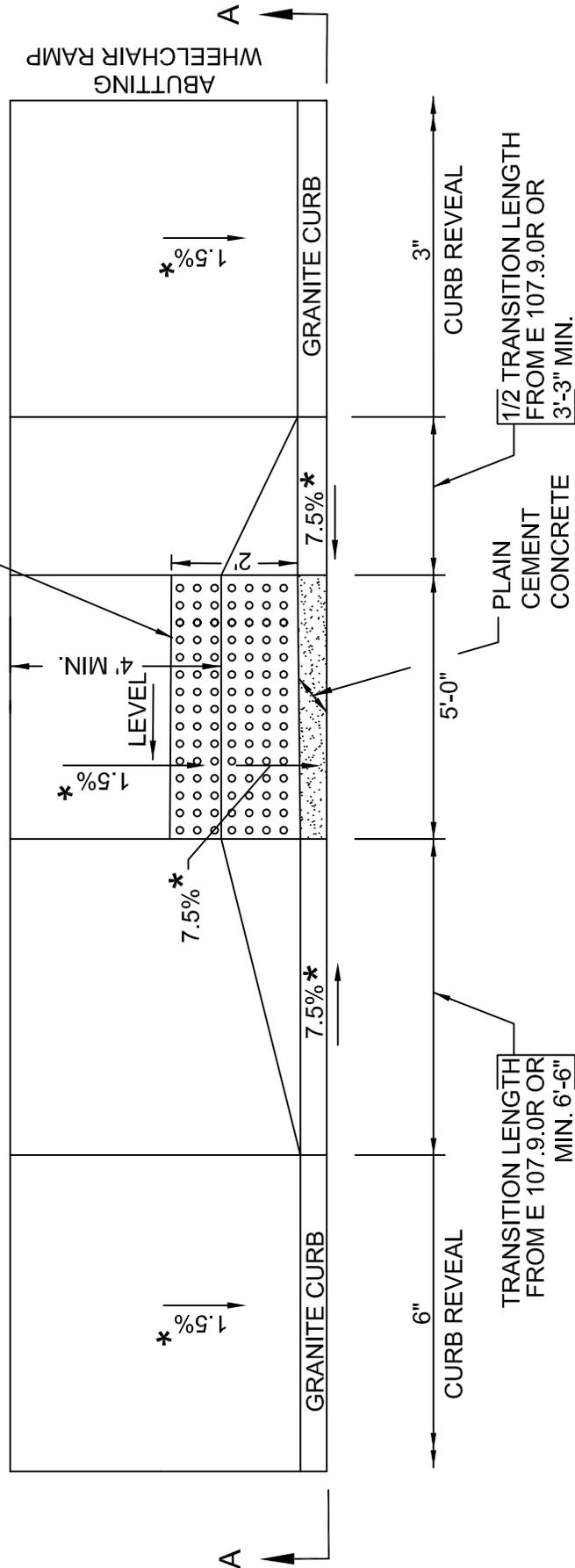
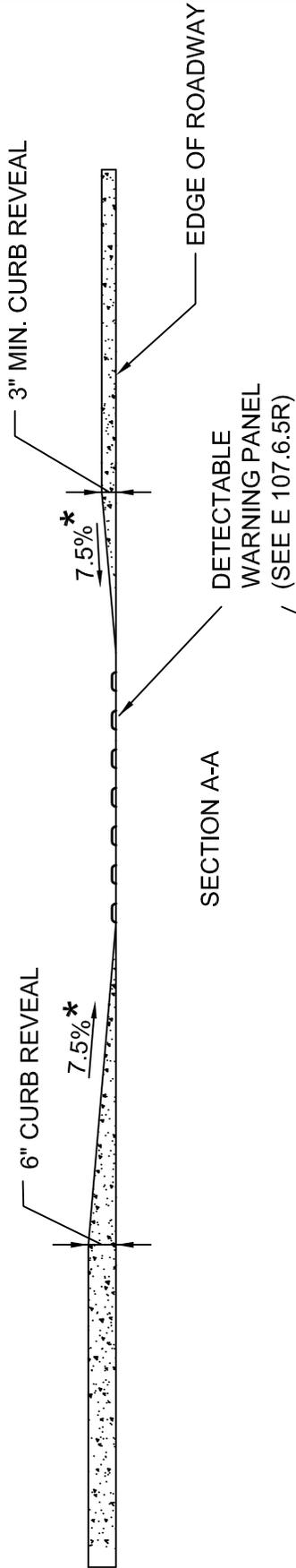
DETECTABLE WARNING PANEL
 LOCATED NOT LESS THAN 6" OR MORE THAN 24"
 FROM ROADWAY EDGE (GUTTER LINE). TRUNCATED
 DOMES TO BE ALIGNED WITH DIRECTION OF TRAVEL.
 FOR DETAILS OF TRUNCATED DOMES SEE DRAWING
 E 107.6.5R.
 ROADWAY, GUTTER, AND FIRST 6" OF SIDEWALK TO
 BE ADJUSTED FOR FIELD CONDITIONS.

LEGEND

HSL = HIGH SIDE TRANSITION LENGTH
 (SEE E 107.9.0R)

* = TOLERANCE FOR CONSTRUCTION ±0.5%

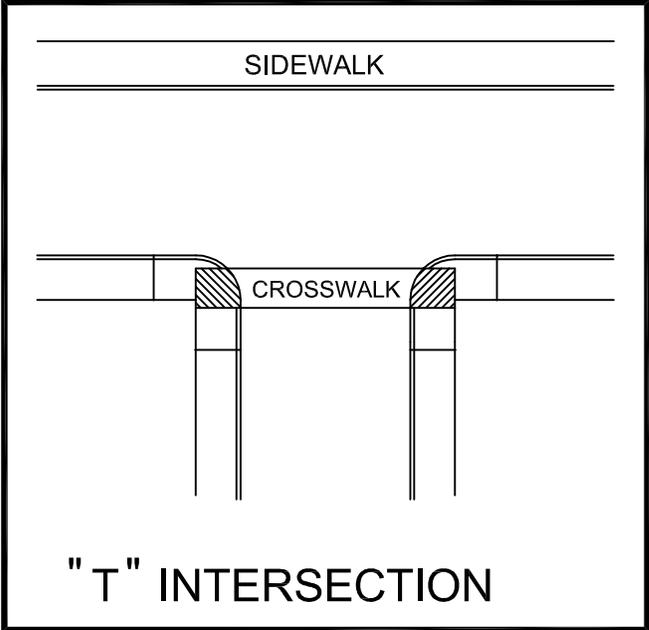
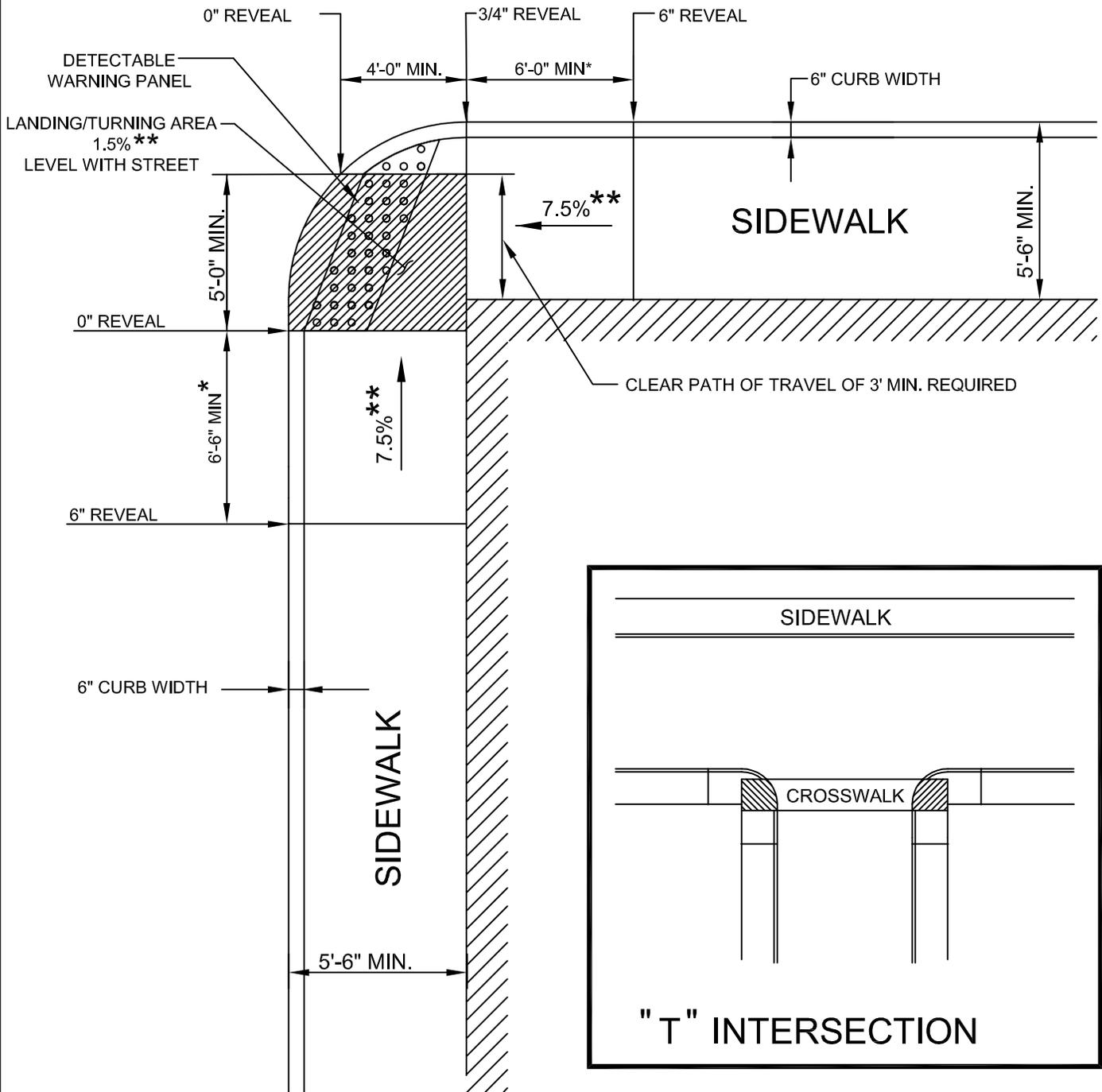
WHEELCHAIR RAMP FOR ONE CONTINUOUS DIRECTION OF PEDESTRIAN TRAVEL



LEGEND

HSL = HIGH SIDE TRANSITION LENGTH
SEE E 107.9.0R

* = TOLERANCE FOR CONSTRUCTION ±0.5%



LEGEND

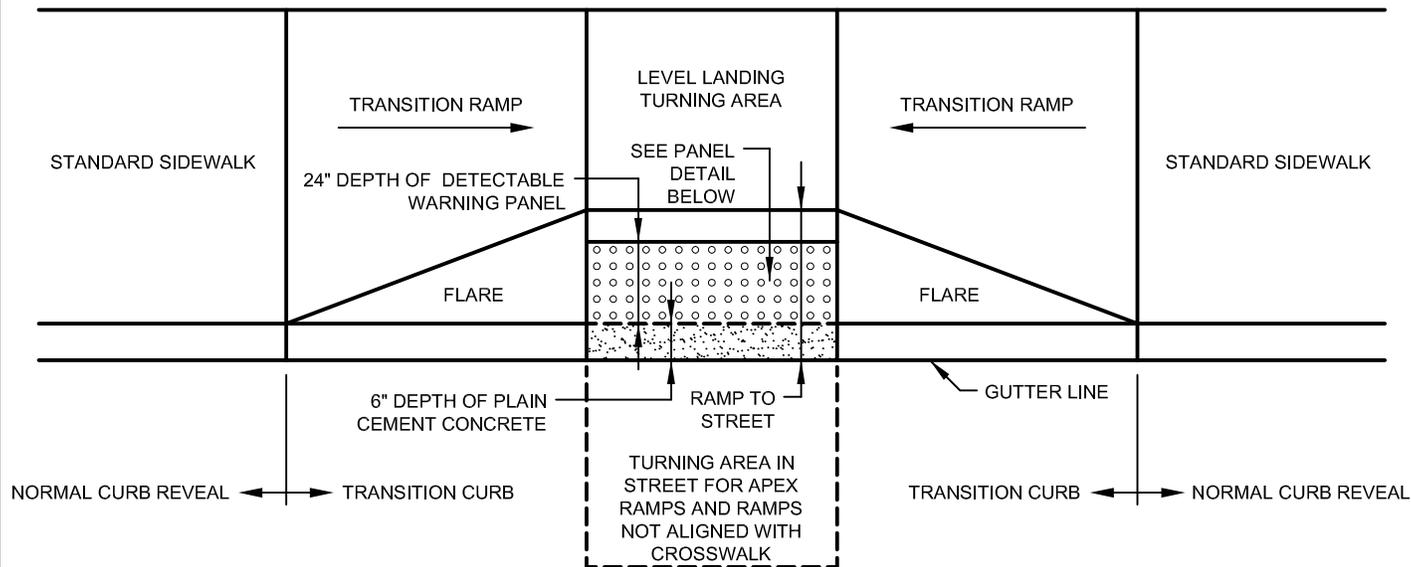
 BUILDING OR OTHER UNALTERABLE CONDITION

* TRANSITION LENGTH SHOWN IS MINIMUM.
(SEE E 107.9.0R)

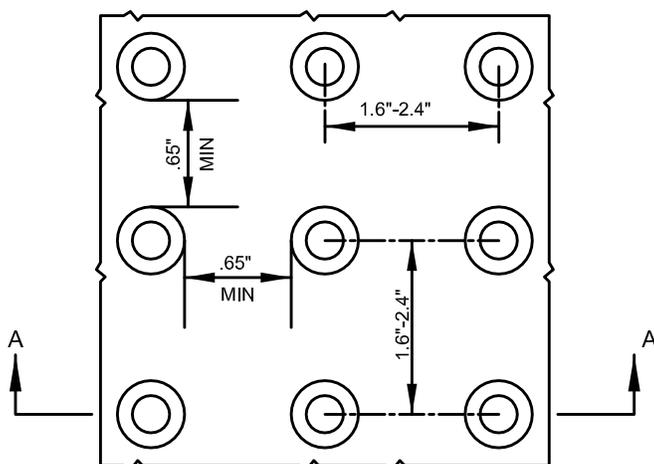
** TOLERANCE FOR CONSTRUCTION ±0.5%

NOTE:

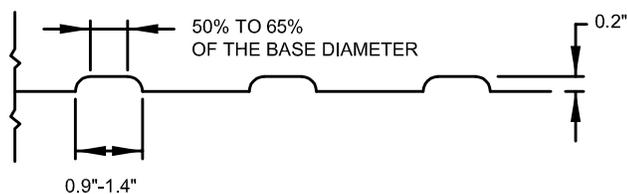
ROADWAY, GUTTER, AND FIRST 6" OF SIDEWALK TO BE ADJUSTED FOR FIELD CONDITIONS



TYPICAL INSTALLATION



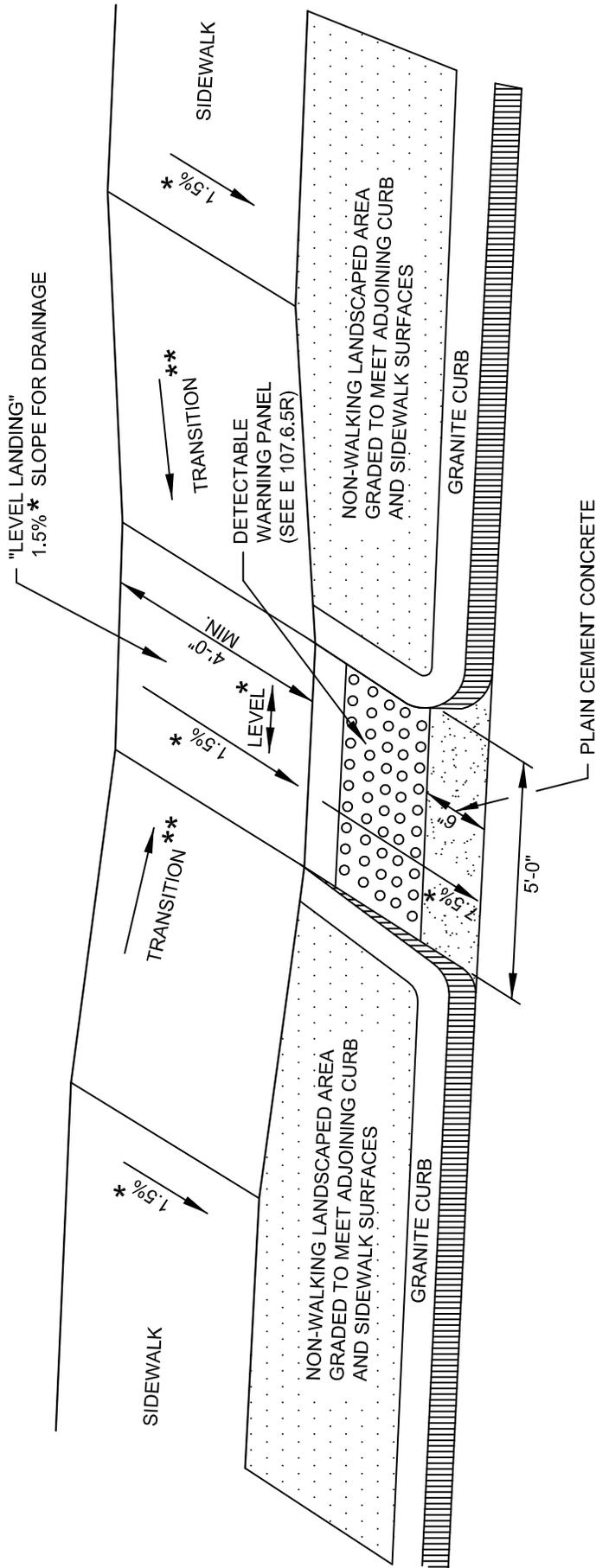
DETAIL OF DETECTABLE WARNING PANEL



SECTION A-A

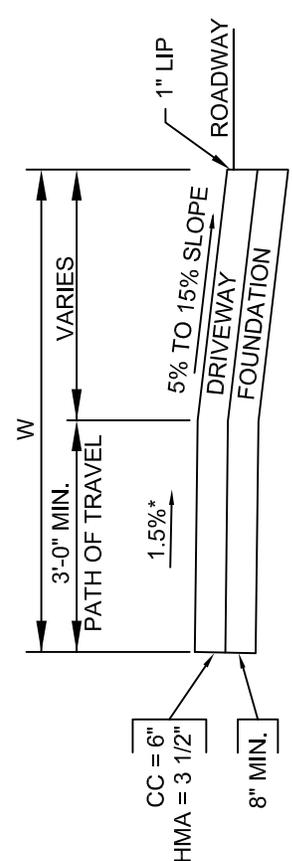
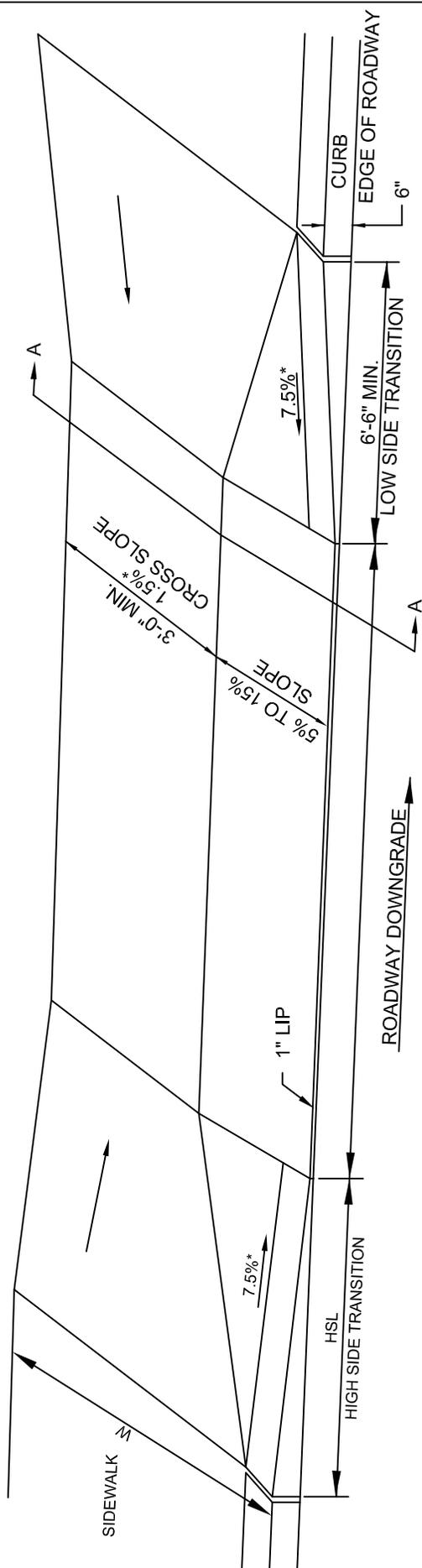
NOTE:

PANELS MAY BE CONCRETE PRECAST OR CAST IN PLACE OR OTHER SUITABLE MATERIAL PERMANENTLY APPLIED TO THE RAMP. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.



LEGEND

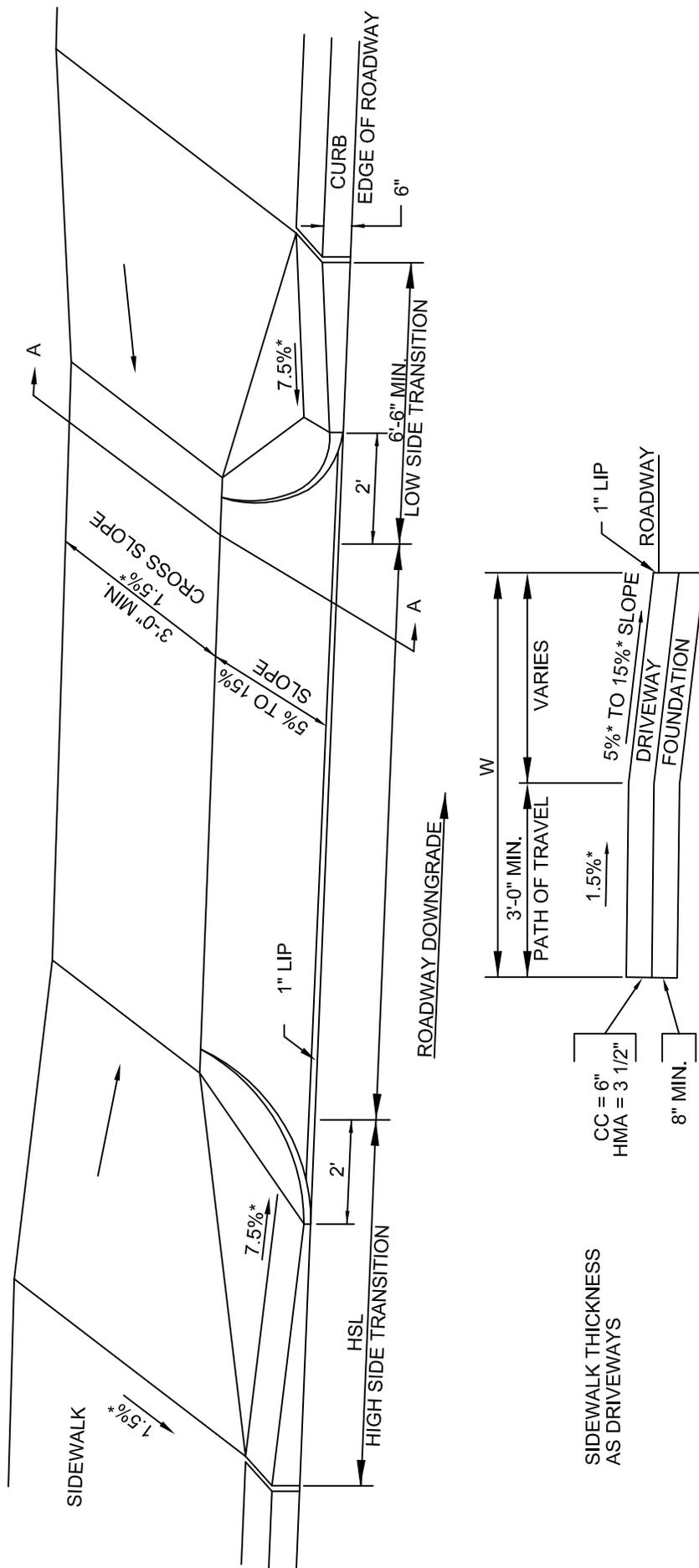
- * = TOLERANCE FOR CONSTRUCTION ±0.5%
- ** = SEE E 107.9R FOR TRANSITION LENGTH



SECTION A-A

LEGEND

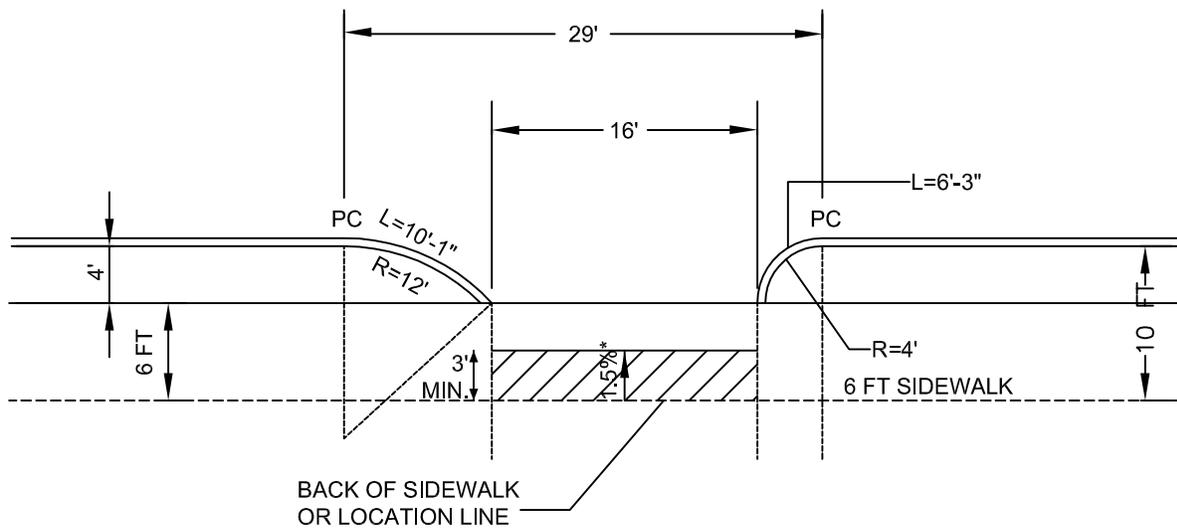
- HSL = HIGH SIDE TRANSITION LENGTH. SEE E 107.9.0
- W = SIDEWALK WIDTH
- * = TOLERANCE FOR CONSTRUCTION ±0.5%
- CC = CEMENT CONCRETE
- HMA = HOT MIX ASPHALT



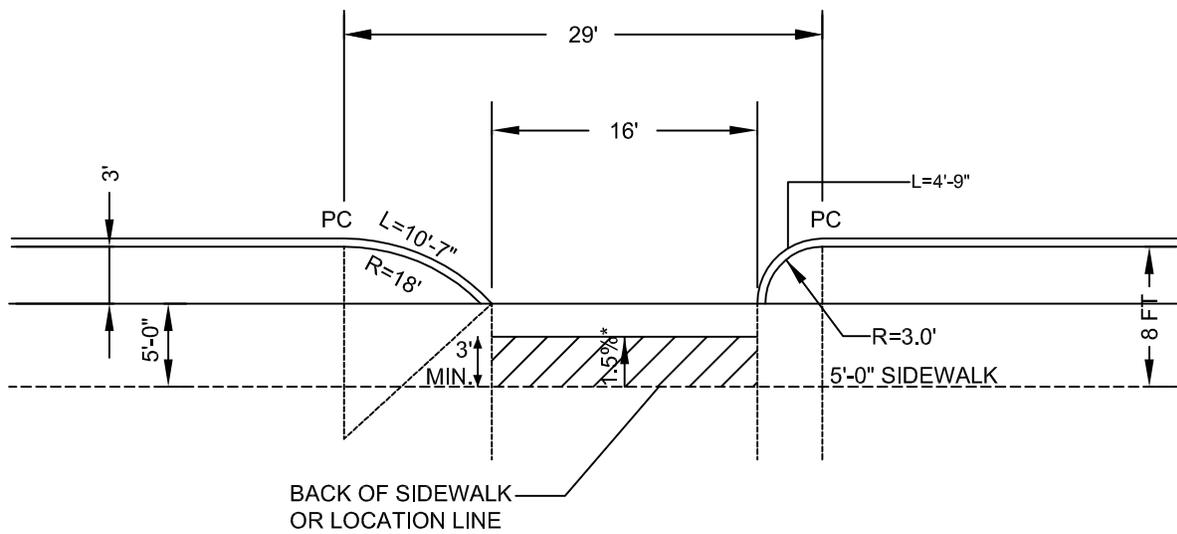
SECTION A-A

LEGEND

- HSL = HIGH SIDE TRANSITION LENGTH
- W = SIDEWALK WIDTH
- * = TOLERANCE FOR CONSTRUCTION ±0.5%
- CC = CEMENT CONCRETE
- HMA = HOT MIX ASPHALT



10 FT SIDEWALK LAYOUT



8 FT SIDEWALK LAYOUT

NOTES:

1. WHEN THE SIDEWALK IS PAVED TO THE CURB LINE, USE SHORT CURB RETURNS AT THE HIGHWAY CURB LINE PC'S, SHOWN IN THESE DESIGNS.



*MUST MAINTAIN PATH OF TRAVEL WITH 1.5% CROSS SLOPE ($\pm 0.5\%$ CONSTRUCTION TOLERANCE)

CURB TRANSITION LENGTH FOR WHEELCHAIR RAMPS

ROADWAY PROFILE GRADE	* HIGH SIDE TRANSITION LENGTH
%	ENGLISH UNITS
=0%	6'-6"
>0% TO 1%	7'-8"
>1% TO 2%	9'-0"
>2% TO 3%	11'-0"
>3% TO 4%	14'-0"
>4% TO 5%	15'-0" Max

NOTE:

* BASED ON A DESIGN SLOPE OF 7.5% AND A REVEAL OF 6".

**CITY OF NEW BEDFORD, MASSACHUSETTS
WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
PART II – 36-INCH TRANSMISSION MAINS
PROJECT NO. DWSRF-3870
BID NO. 15450041**

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00800	Supplementary Conditions	19+ Attachments

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01740	Warranties and Bonds	2

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**CITY OF NEW BEDFORD, MASSACHUSETTS
WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
PART II – 36-INCH TRANSMISSION MAINS
PROJECT NO. DWSRF-3870
BID NO. 15450041**

TABLE OF CONTENTS

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 APPENDICES		
A	Massachusetts Water Resource Authority (MWRA) Standard Operating Procedures for Performing Construction Work on Pipelines – Dechloramination Information and Tables	
B	Inspection Forms for Existing Transmission Main Valves	
C	Bid Form (2 copies)	

**BID FORM
TO
CITY OF NEW BEDFORD, MASSACHUSETTS
WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
PART II – 36-INCH TRANSMISSION MAINS
PROJECT NO. DWSRF-3870
BID NO. 15450041**

The undersigned declares that the only persons or parties interested in this Bid as principals are as stated; that the Bid is made without any collusion with other persons, firms, or corporations; that all the Contract Documents as prepared by CDM Smith, 260 West Exchange Street, Suite 300, Providence, Rhode Island 02903 and dated February 2015 have been carefully examined; that the undersigned is fully informed in regard to all conditions pertaining to the Work and the place where it is to be done, and from them the undersigned makes this Bid. These prices shall cover all expenses incurred in performing the Work required under the Contract Documents, of which this Bid Form is a part.

The time period for holding bids, where Federal approval is not required is 30 days, Saturdays, Sundays and legal holidays excluded, after the opening of bids and where Federal approved is required, the time period for holding bids is 30 days, Saturdays, Sundays and holidays excluded after Federal approval.

The Bid Security accompanying this Bid shall be in the amount of five percent of the Bid.

If a Notice of Award accompanied by at least six unsigned copies of the Agreement and all other applicable Contract Documents is delivered to the undersigned within thirty days, excluding Saturdays, Sundays, and legal holidays, after the actual date of the opening of the Bids, the undersigned will within five days, excluding Saturdays, Sundays, and legal holidays, after the date of receipt of such notification, execute and return all copies of the Agreement and all other applicable Contract Documents to Owner. The premiums for all Bonds required shall be paid by Contractor and shall be included in the Contract Price. The undersigned Bidder further agrees that the Bid Security accompanying this Bid shall become the property of Owner if the Bidder fails to execute the Agreement as stated above.

The Bid Security shall be sealed in a separate envelope from the Bid and then attached to the envelope containing the Bid.

The undersigned hereby agrees that the Contract Time shall commence twenty days following the Effective Date of the Agreement and to fully complete the Work within 730 Calendar Days and in accordance with the terms as stated in the Agreement. The undersigned further agrees to pay OWNER, as liquidated damages, \$2,500 per day for each calendar day beyond the Contract Time Limit or extension thereof that the Work remains incomplete, in accordance with the terms of the Agreement.

The undersigned acknowledges receipt of addenda numbered:

In accordance with the above understanding, the undersigned proposes to perform the Work, furnish all materials and complete the Work in its entirety in the manner and under the conditions required at the prices listed as follows:

**CITY OF NEW BEDFORD, MASSACHUSETTS
WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
PART II - 36-INCH TRANSMISSION MAINS
PROJECT NO. DWSRF-3870
BID NO. 15450041**

BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
1A	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 1	\$ _____	\$ _____
		Lump Sum		
1B	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 2	\$ _____	\$ _____
		Lump Sum		
1C	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 3	\$ _____	\$ _____
		Lump Sum		

**CITY OF NEW BEDFORD, MASSACHUSETTS
 WATER SYSTEM IMPROVEMENTS
 TRANSMISSION MAIN REINFORCEMENT PROGRAM
 PART II - 36-INCH TRANSMISSION MAINS
 PROJECT NO. DWSRF-3870
 BID NO. 15450041**

BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
1D	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 4	\$ _____	\$ _____
		Lump Sum		
1E	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 5	\$ _____	\$ _____
		Lump Sum		
1F	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 6	\$ _____	\$ _____
		Lump Sum		

**CITY OF NEW BEDFORD, MASSACHUSETTS
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BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
1G	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 7	\$ _____	\$ _____
		Lump Sum		
1H	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 8	\$ _____	\$ _____
		Lump Sum		
1I	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 9	\$ _____	\$ _____
		Lump Sum		

CITY OF NEW BEDFORD, MASSACHUSETTS
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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
1J	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 10	\$ _____	\$ _____
		Lump Sum		
1K	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 11	\$ _____	\$ _____
		Lump Sum		
1L	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 12	\$ _____	\$ _____
		Lump Sum		

**CITY OF NEW BEDFORD, MASSACHUSETTS
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 PROJECT NO. DWSRF-3870
 BID NO. 15450041**

BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
1M	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 13	\$ _____	\$ _____
		Lump Sum		
1N	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 14	\$ _____	\$ _____
		Lump Sum		
1O	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 15	\$ _____	\$ _____
		Lump Sum		

**CITY OF NEW BEDFORD, MASSACHUSETTS
 WATER SYSTEM IMPROVEMENTS
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BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
1P	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 16	\$ _____	\$ _____
		Lump Sum		
2	1 each	Furnish and install 36-inch line stops with concrete thrust blocks as shown on the Drawings and remove line stops at completion of construction	\$ _____	\$ _____
		each		
3A	2,200 linear feet	Furnish and install 16-inch, Class 52, cement-lined ductile-iron water pipe, including earth excavation and backfill	\$ _____	\$ _____
		per linear foot		
3B	120 linear feet	Furnish and install 12-inch, Class 52, cement-lined ductile-iron water pipe, including earth excavation and backfill	\$ _____	\$ _____
		per linear foot		

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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
3C	10 linear feet	Furnish and install 10-inch, Class 52, cement-lined ductile-iron water pipe, including earth excavation and backfill	\$ _____	\$ _____
		per linear foot		
3D	640 linear feet	Furnish and install 8-inch, Class 52, cement-lined ductile-iron water pipe, including earth excavation and backfill	\$ _____	\$ _____
		per linear foot		
3E	60 linear feet	Furnish and install 6-inch, Class 52, cement-lined ductile-iron water pipe, including earth excavation and backfill	\$ _____	\$ _____
		per linear foot		
3F	10 linear feet	Furnish and install 4-inch, Class 52, cement-lined ductile-iron water pipe, including earth excavation and backfill	\$ _____	\$ _____
		per linear foot		
3G	6,100 pounds	Furnish and install ductile-iron fittings	\$ _____	\$ _____
		per pound		

CITY OF NEW BEDFORD, MASSACHUSETTS
WATER SYSTEM IMPROVEMENTS
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BID NO. 15450041

BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
3H	1 each	Furnish and install 12-inch couplings	\$ _____	\$ _____
		each		
3I	1 each	Furnish and install 10-inch couplings	\$ _____	\$ _____
		each		
3J	3 each	Furnish and install 8-inch couplings	\$ _____	\$ _____
		each		
3K	10 each	Furnish and install 6-inch couplings	\$ _____	\$ _____
		each		
3L	1 each	Furnish and install 4-inch couplings	\$ _____	\$ _____
		each		

CITY OF NEW BEDFORD, MASSACHUSETTS
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PROJECT NO. DWSRF-3870
BID NO. 15450041

BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
4A	15 each	Furnish and install 16-inch butterfly valves and boxes _____	\$ _____	\$ _____
		each		
4B	2 each	Furnish and install 12-inch gate valves and boxes _____	\$ _____	\$ _____
		each		
4C	12 each	Furnish and install 8-inch gate valves and boxes _____	\$ _____	\$ _____
		each		
4D	8 each	Furnish and install new fire hydrant assemblies including all associated fittings, connecting pipe, gate valves, thrust restraint and joint restraint as necessary _____	\$ _____	\$ _____
		each		
5A	20 each	Furnish and install-1 inch corporation stops _____	\$ _____	\$ _____
		each		

CITY OF NEW BEDFORD, MASSACHUSETTS
WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
PART II - 36-INCH TRANSMISSION MAINS
PROJECT NO. DWSRF-3870
BID NO. 15450041

BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
5B	10 each	Furnish and install 2-inch corporation stops	\$ _____	\$ _____
		each		
5C	5 each	Furnish and install curb stops for 1-inch service connections including all required fittings	\$ _____	\$ _____
		each		
5D	5 each	Furnish and install curb stops for 2-inch service connections including all required fittings	\$ _____	\$ _____
		each		
5E	350 linear feet	Furnish and install 1-inch copper service tubing	\$ _____	\$ _____
		per linear foot		
5F	250 linear feet	Furnish and install 2-inch copper service tubing	\$ _____	\$ _____
		per linear foot		

CITY OF NEW BEDFORD, MASSACHUSETTS
WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
PART II - 36-INCH TRANSMISSION MAINS
PROJECT NO. DWSRF-3870
BID NO. 15450041

BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
6A	84,000 linear feet	Furnish, install and remove 6-inch temporary service pipe including all service connections _____	\$ _____	\$ _____
		per linear foot		
6B	89,000 linear feet	Furnish, install and remove 4-inch temporary service pipe including all service connections _____	\$ _____	\$ _____
		per linear foot		
6C	80,000 linear feet	Furnish, install and remove 2-inch temporary service pipe including all service connections _____	\$ _____	\$ _____
		per linear foot		
6D	220 each	Furnish, install and remove temporary hydrants _____	\$ _____	\$ _____
		each		
6E	30 each	Furnish and install tap holes and backfill tap hole excavations for temporary service connections _____	\$ _____	\$ _____
		each		

CITY OF NEW BEDFORD, MASSACHUSETTS
WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
PART II - 36-INCH TRANSMISSION MAINS
PROJECT NO. DWSRF-3870
BID NO. 15450041

BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
6F	2 each	Furnish and install 12-inch insertion valves for shut down of existing water mains if inoperable side line valves are encountered	\$ _____	\$ _____
		each		
6G	1 each	Furnish and install 10-inch insertion valves for shut down of existing water mains if inoperable side line valves are encountered	\$ _____	\$ _____
		each		
6H	5 each	Furnish and install 8-inch insertion valves for shut down of existing water mains if inoperable side line valves are encountered	\$ _____	\$ _____
		each		
6I	5 each	Furnish and install 6-inch insertion valves for shut down of existing water mains if inoperable side line valves are encountered	\$ _____	\$ _____
		each		

**CITY OF NEW BEDFORD, MASSACHUSETTS
 WATER SYSTEM IMPROVEMENTS
 TRANSMISSION MAIN REINFORCEMENT PROGRAM
 PART II - 36-INCH TRANSMISSION MAINS
 PROJECT NO. DWSRF-3870
 BID NO. 15450041**

BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
7A	150 cubic yards	Rock excavation _____	\$ _____	\$ _____
		per cubic yard		
7B	150 cubic yards	Boulder excavation _____	\$ _____	\$ _____
		per cubic yard		
7C	150 cubic yards	Excavating below normal grade including gravel refill _____	\$ _____	\$ _____
		per cubic yard		
8	50 linear feet	Remove and dispose of existing asbestos cement water main _____	\$ _____	\$ _____
		per linear foot		
9A	2,500 cubic yards	Gravel for pavement, driveway and sidewalk base and subbase _____	\$ _____	\$ _____
		per cubic yard		
9B	250 cubic yards	Screened gravel _____	\$ _____	\$ _____
		per cubic yard		

**CITY OF NEW BEDFORD, MASSACHUSETTS
 WATER SYSTEM IMPROVEMENTS
 TRANSMISSION MAIN REINFORCEMENT PROGRAM
 PART II - 36-INCH TRANSMISSION MAINS
 PROJECT NO. DWSRF-3870
 BID NO. 15450041**

BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
9C	100 cubic yards	Controlled Density Fill (CDF)/Controlled Low Strength Material (CLSM)	\$ _____	\$ _____
		per cubic yard		
10	100 cubic yards	Miscellaneous concrete	\$ _____	\$ _____
		per cubic yard		
11A	5,000 square yards	Furnish and install initial trench-width pavement in City streets, which includes 3 inch thick hot mix asphalt bituminous binder course	\$ _____	\$ _____
		per square yard		
11B	5,000 square yards	Furnish and install permanent trench-width pavement in City streets, which includes 1-1/2 inch thick hot mix asphalt bituminous binder course and 1-1/2 inch thick hot mix asphalt bituminous top course	\$ _____	\$ _____
		per square yard		

CITY OF NEW BEDFORD, MASSACHUSETTS
WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
PART II - 36-INCH TRANSMISSION MAINS
PROJECT NO. DWSRF-3870
BID NO. 15450041

BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
11C	7,000 square yards	Furnish and install permanent curb-to-curb pavement in City streets, which includes cold planing existing paving as specified and 1-1/2 inch thick hot mix asphalt bituminous top course overlay	\$ _____	\$ _____
		per square yard		
11D	150 each	Adjustment or realignment of curb and valve boxes	\$ _____	\$ _____
		each		
12	1 Lump Sum	Equipment for traffic management	\$ _____	\$ _____
		Lump Sum		
13	500 cubic yards	Test pits	\$ _____	\$ _____
		per cubic yard		
14	1 Lump Sum	Miscellaneous work and clean-up	\$ _____	\$ _____
		Lump Sum		

CITY OF NEW BEDFORD, MASSACHUSETTS
WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
PART II - 36-INCH TRANSMISSION MAINS
PROJECT NO. DWSRF-3870
BID NO. 15450041

BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
15	1 Lump Sum	Mobilization (no more than 5% of the Base Bid Price)		
		Lump Sum	\$ _____	\$ _____

**CITY OF NEW BEDFORD, MASSACHUSETTS
WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
PART II - 36-INCH TRANSMISSION MAINS
PROJECT NO. DWSRF-3870
BID NO. 15450041**

BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

SUBTOTAL PAGE 00300-2:	\$ _____
SUBTOTAL PAGE 00300-3:	\$ _____
SUBTOTAL PAGE 00300-4:	\$ _____
SUBTOTAL PAGE 00300-5:	\$ _____
SUBTOTAL PAGE 00300-6:	\$ _____
SUBTOTAL PAGE 00300-7:	\$ _____
SUBTOTAL PAGE 00300-8:	\$ _____
SUBTOTAL PAGE 00300-9:	\$ _____
SUBTOTAL PAGE 00300-10:	\$ _____
SUBTOTAL PAGE 00300-11:	\$ _____
SUBTOTAL PAGE 00300-12:	\$ _____
SUBTOTAL PAGE 00300-13:	\$ _____
SUBTOTAL PAGE 00300-14:	\$ _____
SUBTOTAL PAGE 00300-15:	\$ _____
SUBTOTAL PAGE 00300-16:	\$ _____
SUBTOTAL PAGE 00300-17:	\$ _____
TOTAL BID PRICE	\$ _____

The undersigned agrees that extra work, if any, will be performed in accordance with Article 10 of the Conditions of the Contract and will be paid for in accordance with Article 11 of the Conditions of the Contract.

The bidding and award of this Contract will be in accordance with M.G.L. Chapter 30, Section 39M.

The undersigned must furnish a 100 percent Performance Bond and a 100 percent Payment Bond with a surety company acceptable to Owner.

Amounts shall be shown in both words and figures, where indicated. In case of discrepancy, the amount shown in words will govern.

The above prices shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance and incidentals required to complete the Work.

The names and residences of all persons and parties interested in the foregoing Bid as principals are as follows:

(Give first and last names in full. In the case of a corporation, see Article 8.3 of the Instructions to Bidders, in the case of a limited liability company (LLC), see Article 8.4 of the Instructions to Bidders, in the case of a partnership, see Article 8.5 of the Instructions to Bidders.)

The attached Department of Environmental Protection Diesel Retrofit Program Form **and DBE Forms** must be completed and submitted as part of the Bid Proposal.

The City of New Bedford, Massachusetts Non-Collusion and Tax Compliance, Vote of Corporation Authorizing Execution of Corporate Agreements, OSHA Certification Requirement, Contractor Certification, Bidder Certificate of Understanding, Schedule of Participation Disadvantaged/Minority/Woman Business Enterprises, Letter of Intent from DBE/MBE/WBE, Minority/Woman Business Enterprise Program Contractor Identification Statement, Bidders Certification, Minority/Woman Business Enterprises Unavailability Certifications, and Minority/Woman Business Enterprises Request for Waiver forms must be completed and submitted as part of the Bid Proposal.

Pursuant to M.G.L. Ch. 62C, sec. 49A, I certify under the penalties of perjury that I, to my best knowledge and belief, have filed all state tax returns and paid all state taxes required under law.

The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee.

The undersigned bidder hereby certifies he/she will comply with the specific affirmative action steps contained in the Equal Employment Opportunity/Affirmative Action (EEO/AA) provisions of this Contract, including compliance with the Disadvantaged Business Enterprise provisions as required under these contract provisions. The Contractor receiving the award of the contract shall incorporate the EEO/AA provisions of this contract into all subcontracts and purchase orders so that such provisions will be binding upon each subcontractor or vendor.

Bidders must fully comply with Subpart C of 2 CFR Part 180 and 2 CFR Part 1532, entitled Responsibilities of Participants Regarding Transactions (Doing Business with Other Persons). Contractors, subcontractors, or suppliers that appear on the Excluded Parties List System at www.epls.gov are not eligible for award of any contracts funded by the Massachusetts State Revolving Fund.

The undersigned hereby certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this section, the word "person" shall mean any natural person, joint venture, partnership, corporation, limited liability company, or other business or legal entity. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of Section Twenty-nine F of Chapter Twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder; and is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.

Social Security Number
or Federal Identification
Number

Signature of Individual or
Corporate Name

By: _____
Corporate Officer (if applicable)

Notice of acceptance should be mailed, faxed, or delivered to the following:

(Name)

By: _____
(Title)

(Business Address)

(City and State)

Date: _____

If the Bidder is a corporation, indicate State of incorporation under signature, and affix corporate seal; if a partnership, give full names and residential addresses, if different from business address.

APPENDIX – B DIESEL RETROFIT PROGRAM

The Department of Environmental Protection (“DEP”) has developed the Diesel Retrofit Program in response to increasing public health concerns with the emissions from diesel engines and vehicles.

Diesel Construction Equipment Standard

All diesel powered non-road construction equipment and vehicles greater than 50 brake horsepower which will be used in the performance of the work under the Contract (hereinafter “Diesel Construction Equipment”) must have the following pollution control device installed unless exempt as provided below:

1. Emission control technology verified by U.S. Environmental Protection Agency (“EPA”) or the California Air Resources Board (“CARB”) for use with non-road engines;
2. Emission control technology verified by EPA or CARB for use with on-road engines provided that such equipment is operated with diesel fuel that has no more than 15 parts per million sulfur content (i.e. Ultra Low Sulfur Diesel fuel); or
3. Emission control technology certified by the manufacturer that such technology meets or exceeds the emission reductions provided by on-road or off-road emission control technology verified by EPA or CARB, i.e. that a Diesel Oxidation Catalyst is achieving the following minimum emission reductions: particulate matter 20%; carbon monoxide 40%; volatile organic compounds 50%; or a Diesel Particulate Filter is achieving a minimum of 85% emission reductions for particulate matter.

Emission control devices, such as oxidation catalysts or particulate filters, shall be installed on the exhaust system side of the Diesel Construction Equipment. The Contractor shall be responsible to insure that the emissions control technology is operated, maintained, and serviced as recommended by the manufacturer.

For the latest up-to-date list of EPA verified-technologies, see:

<http://www.epa.gov/otaq/retrofit/retroverifiedlist.htm>

For the latest up-to-date list of CARB verified technologies, see:

<http://www.arb.ca.gov/diesel/verdev/verifiedtechnologies/vt.htm>

Exemptions

The following Diesel Construction Equipment shall be exempt from the standard above. The Contractor shall include such Diesel Construction Equipment in the required recordkeeping:

1. Diesel Construction Equipment not owned by the Contractor and used in the performance of the work under this Contract for 30 calendar days (cumulative days but not necessarily consecutive) or less;
2. Unless otherwise exempt, additional Diesel Construction Equipment originally not anticipated to be used under the Contract or used as permanent replacement after the work under the Contract has commenced, for 15 calendar days from the date such Diesel Construction Equipment is brought on site;

**APPENDIX – B (cont.)
DIESEL RETROFIT PROGRAM**

3. Diesel Construction Equipment with an engine that meets the EPA particulate matter (PM) Tier emission standards in effect at the start of the Contract for non-road diesel engines for the applicable engine power group (e.g., as of January 1, 2009, a piece of Diesel Construction Equipment with a Tier 3 engine is exempt from meeting the standard until the piece of Diesel Construction Equipment is available with a Tier 4 engine) provided that if such emissions standards are superseded during the Contract then such Diesel Construction Equipment must be retrofitted in accordance with the standards above prior to the end of the Contract;
4. A large crane (e.g. a sky crane or link belt crane which is responsible for critical lift operations) if such device would adversely affect the operation of the crane provided the Contractor submits to the municipality's project engineer written technical justification documenting the adverse impact on operation; and
5. Diesel Construction Equipment that the project engineer has determined is necessary to control a compelling emergency including but not limited to, the need for rescue vehicles or other equipment to prevent harm to human beings or additional equipment required to address a catastrophic emergency such as structure collapse or imminent collapse. After the compelling emergency is controlled, such non-compliant equipment must be removed from the Contract site and may not be used in further performance of the work under this Contract. Meeting Contract deadlines is not a compelling emergency.

Contractor Certification

Each bidder shall submit as part of its bid, the Statement of Intent to Comply. Within 10 days of being notified that it has been awarded a contract, the bidder and each of its Contractors and Subcontractors shall submit a Diesel Retrofit Program Contractor Certification. Each such Certification shall contain the following information for each piece of Diesel Construction Equipment:

1. Contractor or Subcontractor name;
2. Equipment type, make, model;
3. Vehicle Identification Number or VIN;
4. Engine model and year of manufacture;
5. Engine HP rating;
6. Emission Control Device (ECD) type (Diesel Oxidation Catalyst or Diesel Particulate Filter);
7. ECD make, model, and manufacturer;
8. ECD EPA or CARB Verification Number or manufacturer's certification that the DOC or DPF meets or exceeds emission reductions provided by similar emission control technology verified by EPA or CARB;
9. ECD installation date;
10. Type of fuel to be used; and
11. Whether the equipment is owned or rented.

Recordkeeping

Each Contractor and Subcontractor shall maintain detailed records of all Diesel Construction Equipment used under the Contract, including the dates and duration times the Diesel Construction Equipment is

APPENDIX – B (cont.)
DIESEL RETROFIT PROGRAM

used at the Contract site. Records shall be available for inspection by DEP. Each Contractor and Subcontractor shall notify DEP within 48 hours of any new Diesel Construction Equipment brought onto the Contract site.

For Diesel Construction Equipment that has an emissions control device with a manufacturer's certification, the Contractor shall maintain records of all supporting emissions test data and test procedures. If upon review the emissions reductions are not supported by the test data and test procedures, then the emissions control device may need to be replaced with a compliant retrofit device.

Project Regulatory Agreement

The following language shall be included section 4 (Covenants of the Borrower) of the municipality's Project Regulatory Agreement if it receives funds from the State Revolving Fund:

The Borrower shall require each Contractor and Subcontractor to submit the Diesel Retrofit Program Contractor Certification to DEP and the Borrower prior to commencing work on the Project. The Borrower shall not allow any Contractor or Subcontractor to commence work at the Project site prior to submitting such Certification.

**APPENDIX – B (cont.)
DIESEL RETROFIT PROGRAM**

STATEMENT OF INTENT TO COMPLY

This form must be signed and submitted by the bidder as part of the bid.

Local Governmental Unit _____ **SRF Project No.** _____

Contract No. _____ **Contact Title** _____

Bidder _____

The undersigned, on behalf of the above-named Bidder, agrees that, if awarded the Contract:

- 1. the Bidder shall comply with the Department of Environmental Protection’s (“DEP”) Diesel Retrofit Program by ensuring that all diesel powered non-road construction equipment and vehicles greater than 50 brake horsepower which will be used in the performance of the work under the Contract are equipped or retrofitted with a pollution control device in accordance with the Diesel Retrofit Program Standard;**
- 2. the Bidder shall require all Subcontractors to comply with DEP’s Diesel Retrofit Program by ensuring all diesel powered non-road construction equipment and vehicles greater than 50 brake horsepower which will be used in the performance of the work under the Contract are equipped or retrofitted with a pollution control device in accordance with the Diesel Retrofit Program Standard; and**
- 3. The Bidder shall submit and shall require each Subcontractor to submit a Diesel Retrofit Program Contractor Certification (form attached) with a Diesel Retrofit List to DEP (NAME and ADDRESS) and the Bidder within 10 days of the bidder being notified that it has been awarded the Contract. The Bidder shall require each Subcontractor to update such Certification and List within 2 days of using additional Diesel Construction Equipment on the project under the Contract.**

(Signature of Bidder’s Authorized Representative)

(Date)

**CITY OF NEW BEDFORD
MASSACHUSETTS**

NON-COLLUSION AND TAX COMPLIANCE FORM

CERTIFICATE OF NON-COLLUSION

The undersigned certified under penalties of perjury that this bid has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club or other organization, entity or group of individuals.

Signature of individual submitting bid

Name of business/organization

TAX COMPLIANCE CERTIFICATION

Pursuant to M.G.L. c. 62C, §49A, I certify under the penalties of perjury that, to the best of my knowledge and belief, I am in compliance with all laws of the Commonwealth relating to taxes reporting of employees and contractor, and withholding and remitting child support.

Signature of person submitting bid

Name of business

**CITY OF NEW BEDFORD
MASSACHUSETTS**

**VOTE OF CORPORATION AUTHORIZING
EXECUTION OF CORPORATE AGREEMENTS**

At a meeting of the Board of Directors of _____ duly called and held on _____, 20____ at which a quorum was present and acting throughout, the following vote was duly adopted.

VOTED: That _____, the _____ of the corporation, be and hereby is authorized to affix the Corporate Seal, sign and deliver in the name and behalf of the corporation contract documents with the City of New Bedford, the above mentioned documents to include but not be limited to Bids, Proposals, Deeds, Purchase and Sales Agreements, Agreements, Contracts, Leases, Licenses, Releases and Indemnifications; and also to seal and execute, as above, surety company bonds to secure bids and proposals and the performance of said contract and payment for labor and materials, all in such form and on such terms and conditions as he/she, by the execution thereof, shall deem proper. A true copy

ATTEST:

Name (printed)

Signature (Affix Corporate Seal)

Title

Date

OSHA CERTIFICATION REQUIREMENT

Effective **July 1, 2006**, all employees of a contractor to be employed on **public building and public works** worksites must have successfully completed at least a 10 hour course in construction safety and health approved by OSHA at the time the employee begins work.

I, _____, as _____, of the
(Print Name) (Position with the entity submitting bid)

joint venture/corporation/partnership or other legal entity submitting this bid for a public works project falling under §39M of Chapter 30 of the Massachusetts General Laws and Chapter 149 of the same, do hereby certify that any and all employees found on my worksite for this project have, or will have by the start of their work on the project, successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that was at least 10 hours in duration.

A copy of the OSHA completion cards for each employee must be submitted to the City of New Bedford before work on this project is to begin and must be supplemented as new employees are hired or contracted to work on this project.

_____, as
Signature

_____, of
Position

_____, on
Company/Corporation/Joint Venture/Partnership/Etc.

Date

CONTRACTOR CERTIFICATION

As evidenced by the signature of the Contractor's Authorized signatory below, the Contractor certifies under the pains and penalties of perjury that the Contractor shall not knowingly use undocumented workers in connection with the performance of any City contract; that pursuant to federal and state requirements, the Contractor shall verify the immigration status of all workers assigned to such contracts without engaging in unlawful discrimination; and that the Contractor shall not knowingly or recklessly alter, falsify, or accept altered or falsified documents from any such worker(s). The Contractor understands and agrees that breach of any of these terms during the period of each contract may be regarded as a material breach, subjecting the Contractor to sanctions, including but not limited to monetary penalties, withholding of payments, contract suspension or termination.

Contractor Authorized Signature

Printed Name

Date

Title: _____ Telephone: _____

Fax: _____ Email: _____

APPENDIX A
BID SUBMISSION DOCUMENTS



Bid Submission Checklist

THE GENERAL BIDDER SHALL SUBMIT ALL THE FOLLOWING FORMS AS A PART OF ITS BID SUBMISSION, AND SHALL SUBMIT A COPY OF SUCH TO:

The City of New Bedford
Office of Equal Opportunity
133 William Street Room 208
New Bedford, MA 02740
ph: 979-1446 / fax: 508-991-6148

- (1) Certificate of Understanding: Certification of Compliance with Executive Order 11246"
- (2) Schedule of Participation for Minority, Woman & Disadvantaged Business Enterprises
- (3) Letter of Intent - for each MBE/WBE/DBE Participation
- (4) MBE/WBE Contractor Identification Statement - for each MBE/WBE/DBE
- (5) Bidder's Certification - must be completed and signed by the General Contractor and all Subcontractors who will work on the project (to include MBE/WBE/DBE **and** non-MBE/WBE/DBEs)
- (6) If applicable, a completed and signed MBE/WBE/DBE Unavailability Certification in the event that the work listed on the Schedule is not sufficient to fulfill the Requirement for MBE/WBE/DBE Participation. This certification must include a statement by the bidder of the reasons why it believes it is in compliance with this Provision, and a list of the names, addresses, telephone numbers and reason given for unavailability of the Minority /Woman/ Disadvantaged Contractor who was contacted by the Bidder with respect to the performance of work under the contract.

NOTE: FAILURE TO FULLY COMPLETE AND/OR TO SUBMIT ANY OF THE ABOVE-REFERENCED DOCUMENTS AT THE TIME OF THE BID SUBMISSION MAY RESULT IN THE BID BEING CONSIDERED NON RESPONSIVE

Commonwealth of Massachusetts

BIDDERS CERTIFICATE OF UNDERSTANDING

Equal Employment Opportunity Provisions

Contractor _____ Project _____

Address _____ Tel. # _____ Project # _____

_____ Fax # _____

I, the undersigned, understand that:

- A. Minority Business Enterprises are to be awarded at least 11% of the total contract amount for construction/public works projects.
- B. Woman Business Enterprises are to be awarded at least 5% of the total contract amount for construction/public works projects.
- C. Disadvantaged Business Enterprises are to be awarded at least 4% of the total contract amount for airport projects.
- D. All required MBE/WBE/DBE forms included in Instructions to Bidders are to be completed and submitted with the bid.
- E. Prior to award of the contract, a pre-construction conference must be held (to be attended by the general contractor and all subcontractors, regardless of tier) at which time the following requirements will be discussed:
 - 1. Weekly Workforce Utilization Reports (Form CAD85) are to be submitted weekly with payroll reports within five (5) days of last payroll;
 - 2. Quarterly Manpower Projection Tables (Form CAD85-1) are to be submitted with the Start of Construction notification;
 - 3. Any project in the amount of \$100,000+ is subject to the New Bedford Resident Hiring and the Responsible Employer Plan ordinances;
 - 4. A minimum goal of 18% minority manpower utilization, in terms of total work hours in the aggregate workforce, in each trade or craft, on each project, will be maintained. The goal for female manpower utilization will be maintained at 6.9% according to regulations;
 - 5. Minority and female work hours are to be uniform in each trade, and minorities and females are to be employed evenly on each project;
 - 6. Minority or female employees are not be transferred from project to project for the purpose of meeting goals;
 - 7. A roster of all minority and/or female applicants for employment must be maintained at each project site (Federal & Non-Federal) in the New Bedford Hometown Plan Area.
- E. The submission of the above reports and adherence to hiring practices and equal opportunity performance of subcontractors is the responsibility of the prime contractor.

The bidder hereby certifies that he/she shall comply with the minority manpower ratio and specific affirmative action steps contained in the EEO above, including compliance with the minority contractor compliance specifications. The Contractor receiving the award of the contract shall be required to obtain from each of its subcontractors, and submit to the contracting or administering agency prior to the performance of any work under said contract, a certification by said sub-contractor, regardless of tier, that it will comply with the minority manpower ratio and specific affirmative action steps contained in this appendix.

Authorized Signature

Date

Name (Please Print or Type)

Title

**SCHEDULE OF PARTICIPATION
DISADVANTAGED/MINORITY / WOMAN BUSINESS ENTERPRISES
*to be completed by the Bidder***

Item I - Minority Or Disadvantaged Business Enterprise Participation

1. Name: _____

Address: _____

Nature of Participation: _____

Dollar Value / % of Bid: _____

2. Name: _____

Address: _____

Nature of Participation: _____

Dollar Value / % of Bid: _____

TOTAL BID PRICE	TOTAL DBE or MBE COMMITMENT	%
\$ _____	\$ _____	_____

Item II – Woman Or Disadvantaged Business Enterprise Participation

1. Name: _____

Address: _____

Nature of Participation: _____

Dollar Value / % of Bid: _____

2. Name: _____

Address: _____

Nature of Participation: _____

Dollar Value / % of Bid: _____

TOTAL BID PRICE	TOTAL WBE or DBE COMMITMENT	%
\$ _____	\$ _____	_____

The bidder agrees to furnish implementation reports, as required by the awarding authority, to indicate the MBE/WBE or DBE which it has used or intends to use. Breach of this commitment constitutes a breach of the contract.

General Bidder: _____

Signature: _____ Date: _____

LETTER OF INTENT

to be completed by the DBE/MBE/WBE

This form is to be completed by the DBE or MBE and WBE and must be submitted by the General Bidder as part of the Bid Proposal. A separate form must be completed for each MBE, WBE or DBE involved in the project.

Project Title: _____ Project Location: _____

To: _____
(Name of Bidder)

From: _____ Indicate DBE/MBE/WBE Status
(Name of DBE/MBE/WBE)

I / we intend to perform work in connection with the above project as (Check One)

- an individual
- a partnership
- a corporation
- a joint venture with: _____
- other (explain): _____

It is understood that if you are awarded the contract, you intend to enter into an agreement to perform the activity described below for the prices indicated.

DBE/MBE/WBE PARTICIPATION:

Description of Activity	Project Start Date	\$ Amount	% of Bid Price
_____	_____	_____	_____

The undersigned certify that they will enter into a formal agreement upon execution of the contract for the above-referenced Project

BIDDER		DBE/MBE / WBE	
Authorized Signature	Date	Authorized Signature	Date
_____	_____	_____	_____
Address	_____	Address	_____
_____	_____	_____	_____
Telephone / Fax	_____	Telephone / Fax	_____
_____	_____	_____	_____

MINORITY / WOMAN BUSINESS ENTERPRISE PROGRAM

CONTRACTOR IDENTIFICATION STATEMENT

Project Name: _____ Project #: _____

Total Bid Price: \$ _____ Bid Date: _____

In accordance with the New Bedford Minority Business Enterprise Program, the undersigned bidder certifies that he/she:

1. is a bona fide Minority/Woman/Disadvantaged Business Enterprise currently certified by the State Office of Minority/Woman Business Assistance (SOMWBA); and such SOMWBA certification has not changed; and in the event of said status changing, it will immediately forward written notification to the City of New Bedford and SOMWBA; and
2. intends to perform certain work (specified by formal bid proposal) under a contract in connection with the above-named project, and that work will not be sublet to any company at any tier; and
3. will comply with the minority/woman workforce ratio and specific affirmative action steps contained in the EEO/AA Contract Provisions and shall obtain from each of its subcontractors a copy of the bidder's certification and submit to the administering agency, prior to the award of such subcontract, regardless of tier, that he/she will comply with the minority/woman workforce ratio and specific affirmative action steps contained in these and the EEO/AA Contract Provisions.

SOMWBA CERTIFICATION CATEGORY: _____

CONTRACTORS NAME: _____
{ } MBE { } WBE { } DBE

ADDRESS: _____

TELEPHONE #: _____ FAX #: _____

REPRESENTATIVE NAME & TITLE: _____

AUTHORIZED SIGNATURE: _____

GENERAL BIDDERS NAME: _____

BIDDERS CERTIFICATION

to be completed by General Contractor & each of its Subcontractors (MBE/WBE/DBE and non-MBE/WBE/DBE)

The undersigned bidder hereby certifies that he/she will comply with the Minority/Woman Workforce Ratio and Specific Affirmative Action Steps contained in the EEO/AA Provisions of this contract, including compliance with the Minority/Woman/Disadvantaged Business Enterprise as required under these contract provisions.

The contractor receiving the award of the contract shall be required to obtain, from each of its subcontractors, regardless of tier, a copy of this Bidder's Certification indicating that it will comply with the Minority/Woman Workforce Ratio and Specific Affirmative Action Steps contained in these EEO/AA Contract Provisions, and submit it to the contracting agency prior to the award of such contract and subcontract.

Name of General Contractor

Name of Subcontractor
{ } MBE { } WBE { } DBE { } Non-MBE/WBE

Signature of Authorized Representative

Signature of Authorized Representative

Name & Title (Printed or Typed)

Name & Title (Printed or Typed)

Date

Date

**MINORITY / WOMAN BUSINESS ENTERPRISES
UNAVAILABILITY CERTIFICATIONS**

to be completed by General Contractor

*(the Bidder shall prepare additional copies of this information form
in the quantity necessary to comply with the bidding requirements)*

I, _____, _____
Name Title

of _____
Contractor Name

certify that on _____, I contacted the below listed MBE/WBE/DBE
Date of Contact
requesting a bid for

Project _____ as an { } MBE, { } WBE or { } DBE for the provision of
{ } Goods & Services or { } Labor to accomplish _____
Subcontract Work Offered to this MBE/WBE/DBE Company

Name of Prospective Sub-Contractor

Address City and State Telephone #

Contact was made by { } Telephone { } In Person

Said sub-contractor was unavailable for work on this project or unable to prepare a bid for the following reason(s):
(check appropriate answer):

{ } MBE/WBE/DBE Firm Declined Job

{ } MBE/WBE/DBE Firm offered to do a job at the price of \$_____, which was not
acceptable because: _____

{ } Other _____

The above information is accurate and complete, to the best of my knowledge and belief. Signed under the pains and
penalties of perjury.

Signature of Authorized Representative, General Contractor Date

MINORITY / WOMAN/DISADVANTAGED BUSINESS ENTERPRISES

REQUEST FOR WAIVER

Upon exhausting all known sources and making every possible effort to meet the minimum requirements for MBE/WBE/DBE participation, the Contractor may seek relief from these requirements by filing this form (completed) NO LATER THAN FIVE (5) working days following the bid opening. Failure to comply with this process shall be cause the bidder to be rejected, thereby rendering the contractor not eligible for award of the contract.

General Information

Project Title: _____ Location: _____

Bid Opening (time/date): _____ Location: _____

Bidder: _____

Mailing Address: _____

Contact Person: _____

Telephone No.: (_____) _____ Ext. _____

Minimum Requirements

The contractor must show that good faith efforts were undertaken to comply with the percentage goals, as specified. The bidder seeking relief must show that such efforts were taken appropriately, in advance of the time set for opening bid proposals, to allow adequate time for response(s) by submitting the following: *(please check all that apply and attach applicable documentation)*

- A. A detailed record of the effort made to contact and negotiate with minority, woman or disadvantaged business enterprises, to include:
- () 1. Names, addresses and telephone numbers of all such companies contacted;
 - () 2. Copies of written notice(s) which were sent to MBE/WBE/DBE potential subcontractors prior to bid opening;
 - () 3. Copies of advertisements prior to bid opening, as appearing in general publications, trade-oriented publications, and applicable minority/women focused media detailing the opportunities for participation.
 - () 4. A detailed statement as to why each subcontractor contacted (a) was not willing to do the job or (b) was not qualified to perform the work as solicited; and
 - () 5. In the case(s) where a negotiated price could not be reached, the bidder should detail what efforts were made to reach an agreement on a competitive price
 - () 6. Contractor certifies that 100% of the project is to be carried out with his/her own workforce. no subcontractors are to be utilized.

- B. The Agency may require the contractor to produce such additional information, as it deems appropriate and may obtain whatever other information it deems necessary to reach a conclusion from any source.
- C. No later than fifteen (15) days after receipt of all necessary information and documentation, a decision will be made in writing to the bidder. If the waiver request is denied, the facts upon which a denial is based will be set forth. A contractor who is dissatisfied with the decision may then appeal that decision to the Equal Opportunity Employment Agency.

Certification

The undersigned herewith certified that the above information and appropriate attachments are true and accurate to the best of my ability, and that I have been authorized to act on behalf of the bidder in this matter.

(authorized original signature)

Date

Submit to: Equal Employment Opportunity
Compliance Officer
133 William Street, Room 208
New Bedford, MA 02740

To be completed by the City of New Bedford's EEO

Bid Date

Date Received by EEO

Initials

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
 MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF MUNICIPAL SERVICES

SCHEDULE OF PARTICIPATION FOR SRF CONSTRUCTION

Project Title: _____ **Project Location:** _____

Disadvantaged Minority Business Enterprise Participation in the SRF Loan Work

Name & Address of D/MBE	Nature of Participation	Dollar Value of Participation
1.		
2.		
3.		
Total D/MBE Commitment:		\$
Percentage D/MBE Participation = (Total D/MBE Commitment) / (Bid Price) =		%

Disadvantaged Women Business Enterprise Participation in the SRF Loan Work

Name & Address of D/WBE	Nature of Participation	Dollar Value of Participation
1.		
2.		
3.		
Total D/WBE Commitment:		\$
Percentage D/WBE Participation = (Total D/WBE Commitment) / (Bid Price) =		%

The Bidder agrees to furnish implementation reports as required by MassDEP to indicate the D/MBEs and D/WBE(s) which it has used or intends to use. Breach of this commitment constitutes a breach of the contract.

Name of Bidder: _____

Date: _____ By: _____
Signature

NOTE: Participation of a DBE may be counted in only their certified category; the same dollar participation cannot be used in computing the percentage of D/MBE participation and again of D/WBE participation.

DBE CERTIFICATION OF UNITED STATES CITIZENSHIP

For the SRF program, under the EPA Disadvantage Business Enterprise (DBE) Rule, a DBE must be owned or controlled by a socially and economically disadvantaged person that is also a **citizen of the United States** (See 40 CFR 33.202). “Ownership” is defined at 13 CFR 124.105 and “control” is defined at 13 CFR 124.106.

DBEs are certified for the SRF program through the Supplier Diversity Office using the federal Department of Transportation (DOT) DBE rules. EPA allows the use of DBEs certified under the DOT rules as long as they are also United States citizens. To ensure compliance with the EPA rule, MassDEP must verify United States citizenship through the completion of the following form for each DBE used on the project.

SRF Project Number _____

Contract Number _____

Contract Title _____

DBE Subcontractor _____

The undersigned, on behalf of the above named DBE subcontractor, hereby certifies that the DBE firm is either owned or controlled by a person or persons that are citizens of the United States.

Printed Name and Title of DBE Signatory

DBE Signature

Date

SECTION 01014
CONSTRUCTION SEQUENCE AND SPECIAL WORK REQUIREMENTS

PART 1 GENERAL

1.01 GENERAL REQUIREMENTS

- A. The water distribution system must provide continuous service to all customers during the construction period and meet all demands required under normal service conditions. Furnish and install temporary bypass piping, valves, hydrants and service connections for this purpose as specified.
- B. Contractor must submit a proposed construction sequence with detailed sequence of work, and for each and every work area Contractor shall also submit for Engineer and Owner review:
 - 1. Shut down and isolation plan for existing water mains.
 - 2. Plan for temporary bypass piping to maintain water supply to all water customers affected by water mains to be shut down.
 - 3. Plan to dewater existing water mains to facilitate construction of new work.
 - 4. Traffic management and detour plans.

Submit proposed construction sequence with detailed sequence of work, shut down and isolation plan for existing water mains, temporary bypass piping plans, pipeline dewatering plans and traffic management and detour plans in accordance with the requirements of Section 01300.

- C. In general, no work which affects or could affect system operations shall be performed without a specific detailed plan by the Contractor approved in advance by the Engineer and the Owner. All requests shall be in writing to the Owner and Engineer.
- D. Construction progress schedules required shall reflect the conditions presented in this section.

1.02 DEFINITIONS AND TERMS

- A. System Operational Constraints: The constraints to performance of the work required because of system operations which must be maintained at all times are identified in this section. These constraints shall be included in the Contractor's progress schedule and plans.
- B. Construction Scheduling Constraints: The constraints to performance of the work required because of special sequencing with other parts of the work, calendar time constraints and special testing, commissioning and work procedures are identified in this Section. These constraints are in addition to the standard procedural constraints such as shop drawings, testing, commissioning, training, etc. and the above plant operational constraints. These constraints shall be included in the Contractor's progress schedule.
- C. Special Conditions: Certain special conditions, if any, related to performance of the work are identified in this section. If they affect the scheduling of the work, they shall be included in the Contractor's progress schedule.

1.03 SUBMITTALS

- A. Submit, in accordance with Section 01300, shop drawings showing details of all temporary services, bypasses and tie-ins to existing systems.
- B. Submit proposed construction sequence with detailed sequence of work, shut down and isolation plan for existing water mains, temporary bypass piping plans, pipeline dewatering plans and traffic management and detour plans in accordance with the requirements of Section 01300 for Engineer and Owner review and approval prior to starting construction.

1.04 NOTIFICATION REQUIREMENT

- A. Give a minimum of 7 days advance notice to the Engineer of each component proposed for shutdown or disruption, all of which shall be subject to Owner approval and limitations.

1.05 TIE-IN PREPARATIONS

- A. Where new piping shall be tied-into existing piping, which are required to be shutdown to make the tie-in, the new piping shall be fully prepared in anticipation of the tie-in to minimize downtime of the existing system. The new piping shall be fully tested to the maximum extent possible prior to the tie-in. Measurements shall be taken to ensure that the new piping is of the correct size, length and alignment to complete the tie-in. Supply a list of all materials and equipment needed to accomplish the tie-in and shall review the proposed tie-in with the Engineer and Owner.
 - 1. Once initiated, work shall continue until the tie-in is completed. Ensure that all materials, labor and equipment required to complete the work are available at the site of the tie-in prior to the initiation of work.

1.06 SITE CONDITIONS

- A. The 36-inch water transmission mains convey potable water for consumption and fire protection to the Owner's water distribution system from the High Hill Reservoir storage facility. The south 36-inch transmission main is cast-iron and was originally installed in 1896. The north 36-inch transmission main is cast-iron and was originally installed in 1910. Many of the existing main line valves are original to the pipelines. There are direct service connections, hydrants and branch water distribution mains connected directly to these 36-inch water transmission mains along their entire length from High Hill Reservoir and through the water distribution system. The 36-inch water transmission mains also supply a 42-inch water transmission main at High Hill Reservoir (see General Plans on the Drawings).
- B. Coordinate the activities with the other contractors, if any, to allow orderly and timely completion of all the work.
- C. Work areas will depend on the closure of existing valves. Many of these valves are old and may not seal properly. Coordinate with the Owner personnel prior to any such closure and handle leakage as specified in Section 02120 to perform the work at no additional cost to the Owner.

1.07 OPERATIONAL CONSTRAINTS

- A. The following is a list of operational constraints to consider in developing the overall plan of construction. This list is not intended to release the Contractor from the responsibility to coordinate the work in any manner which will ensure project completion within the time allowed or to complete the work while maintaining the safety and integrity of the water system. These requirements are such that the Owner can maintain proper flow, pressures and fire flows to the water system at all times. The safety and integrity of the water system is of prime importance.
1. Continuous water service must be maintained in one 36-inch water transmission main at all times during construction. Only one 36-inch transmission main is allowed to be offline at any time during construction and one 36-inch water transmission main must always be in service at all times unless otherwise specified herein. At no time will both 36-inch transmission mains be allowed to concurrently be out of service during construction – one 36-inch transmission main must always be online to supply the water system and the 42-inch transmission main at High Hill Reservoir.
 2. The 42-inch transmission main that is supplied by the 36-inch transmission mains at High Hill Reservoir must be in service at all times during construction and continuous, uninterrupted supply must be maintained in this 42-inch transmission main at all times.
 3. Valve Work Area No. 3 is the only work area where permission will be given to the Contractor to shut down both 36-inch transmission mains at the same time to complete required work at Valve Work Area No. 3, provided that the Construction Scheduling Constraints specified herein are met. This work area cannot be isolated without concurrently shutting down both 36-inch transmission mains. In constructing Valve Work Area No. 3, Contractor shall perform construction in such a manner that will restore supply in one 36-inch transmission main as quickly as possible, including the proper disinfection of all Work Area No. 3 components, while the remaining work is being completed.
 4. The Coggeshall Street Sewer Separation – Phase I project will be ongoing at the same time as this project and it requires shut down of the City’s 48-inch transmission main in Belleville Avenue to complete a tie-in to a new water main. Valve Work Area No. 3 will not be allowed under any circumstances to be constructed at the same time as the 48-inch water main shut down in Belleville Avenue to prevent both 36-inch transmission mains from being offline at the same time as the 48-inch transmission main in Belleville Avenue. Contractor shall coordinate with the Owner and Engineer an acceptable schedule for when the work can be done.
 5. Existing valves that can be used to shut down the existing 36-inch transmission mains are shown on the General Plans of the Drawings along with their anticipated current operational status. It is not warranted that existing valves will be operable at the time of construction. Contractor is required to handle leakage at each isolation valve that is closed or line stop that is installed to accomplish the work as specified in Section 02120.
 6. In general, each Valve Work Area shall be constructed one at a time and fully completed with all piping, fittings and valves tested, disinfected and reactivated before the Contractor begins construction on another Valve Work Area. The Contractor will be allowed to complete multiple Work Areas at the same time if these Work Areas require that the same

valves be shut down to isolate the same sections of existing water mains required to complete construction of the Work Areas.

1.08 CONSTRUCTION SCHEDULING CONSTRAINTS

- A. The following is a list of scheduling constraints to consider in developing the overall plan of construction. This list is not intended to release the Contractor from the responsibility to coordinate the work in any manner which will ensure project completion within the time allowed. The following areas are not necessarily listed in their order of priority or required sequence of construction.
1. Contractor is required to coordinate activities with other contractors as specified to allow orderly and timely completion of all required work. Contractor shall coordinate all work with the contractor performing the concurrent Coggeshall Street Sewer Separation – Phase I project.
 2. Temporary bypass piping and service connections are not allowed to be used between November 1st and April 15th in order to prevent freezing of the temporary bypass supply system. Since all work areas require the use of temporary bypass piping and service connections to maintain supply to water system customers, no work will be allowed from November 1st to April 15th.
 3. Under no circumstances will the Contractor be allowed to construct Valve Work Area No. 3 (which requires that both 36-inch transmission mains be shut down concurrently) at the same time as the shut down of the 48-inch water transmission main in Belleville Avenue that is part of the concurrent Coggeshall Street Sewer Separation – Phase I project.
 4. Since Valve Work Area No. 3 requires that both 36-inch transmission mains be shut down concurrently to complete the work at this area, Valve Work Area No. 3 will not be allowed to be constructed during the higher water demand time periods of June, July, August and from September 1 to September 15. Valve Work Area No. 3 must be constructed in April, May, late September, or October.
 5. Following installation of the line stop at Line Stop Work Area No. 1 to facilitate shut downs to accomplish new construction, new valves shall be installed at Valve Work Area No. 4 so that the line stop can be removed as soon as possible.
 6. ***Contractor shall be aware of certain festivals and activities that occur in the City in general proximity to some of the project areas. These activities may cause changes in traffic patterns and road closures in areas of the City. Contractor is made aware of the following activities and shall coordinate all construction work, their construction sequence and traffic management with the Owner accordingly in order to accommodate these activities:***
 - a. ***Day of Portugal Feast (June 5-8 in 2015; dates for 2016 To Be Determined)***
 - b. ***Feast of the Blessed Sacrament (July 30 to August 2 in 2015; dates for 2016 To Be Determined)***
 - c. ***Whaling City Youth Baseball League annual opening day parade (generally a Sunday in April each year)***
 7. ***Restrictions for placement of final, permanent paving is as specified in Section 02576.***

1.09 SPECIAL CONDITIONS

- A. The following is a list of special conditions to consider in developing the overall plan of construction. This list is not intended to release the Contractor from the responsibility to coordinate the work in any manner which will ensure project completion within the time allowed. The following areas are not necessarily listed in their order of priority or required sequence of construction.
1. Work at the intersection of Ashley Boulevard and Tarkiln Hill Road and along Tarkiln Hill Road is directly adjacent to the City of New Bedford Fire Station No. 9 and Police Station No. 3. Contractor shall coordinate all construction activities with the Fire and Police Departments. All fire, police and medical vehicles, apparatus, and personnel shall have access into and out of Fire Station No. 9 and Police Station No. 3 at all times during construction. No equipment or materials shall block driveways, entrances or exits to Fire Station No. 9 or Police Station No. 3 at any time.
 2. All work shall be constructed during normal working hours as specified, except for the areas listed below. To minimize disruption to traffic in heavily traveled areas, the following areas shall be constructed at night during the hours of **8:00 PM** to 5:00 AM:
 - a. Mount Pleasant Street at Nash Road (Valve Work Area No. 7)
 - b. Ashley Boulevard at Tarkiln Hill Road (Valve Work Area No. 10)
 - c. Ashley Boulevard at Nash Road (Valve Work Area No. 13)
 - d. Ashley Boulevard at Deane Street (Valve Work Area No. 14)
 - e. Ashley Boulevard at Coggeshall Street (Valve Work Area No. 15)
 3. All new butterfly valves 24- to 36-inches in size shall be pressure and leakage tested on-site prior to installation as specified in Section 02640.
 4. It is recommended, but not required, that the Contractor complete all work required at Valve Work Area No. 3 early in the project to avoid conflict with the Coggeshall Street Sewer Separation – Phase I project.
 5. ***It is recommended for the City's water supply and distribution purposes that the Contractor complete work required on the south 36-inch transmission main to restore it to full service as soon as possible within Contractor's proposed sequence of work and project schedule.***
 6. ***The existing 36-inch transmission mains shall be protected at all times during construction while they are active and online. In no case shall the Contractor stockpile soil or other material above the existing 36-inch water transmission mains.***

1.10 ISOLATION OF WATER TRANSMISSION MAINS FOR NEW WORK

The following is a suggested approach for shutting down and isolating the 36-inch water transmission mains to facilitate new work (refer to the General Plans included with the Drawings). This suggested list is not intended to release the Contractor from the responsibility to coordinate the work in any manner which will ensure project completion within the time allowed. The following areas are listed sequentially and not necessarily listed in their sequence of construction, and they may need to be adjusted based on other constraints specified herein and the Contractor's proposed sequence of work. This list is provided to the Contractor as a guide and does not relieve the Contractor from the responsibility of developing a detailed

sequence of construction to complete the proposed work nor does it preclude the Contractor from proposing a different sequence that *meets* the specified constraints to accomplish the work. Side line/side street water mains required for shut downs are also listed as a guide to the Contractor and the Contractor shall coordinate with the Owner valves on these side line water mains to be shut down to fully isolate all water mains needed to facilitate construction of new work. Side line/side street water mains may need to be restrained to facilitate shut downs and this is the Contractor's responsibility. It is not warranted that all side line/side street water mains are listed – Contractor shall examine Owner's water system plans to determine the extent of required water main shut downs for all Work Areas.

1. Valve Work Area No. 1
 - a. The south 36-inch transmission main can be isolated as follows:
 - 1) Close existing valves at High Hill Reservoir or close Existing Valves 2A or 3A.
 - 2) Close Existing Interconnection Valve 3C.
 - 3) Close the existing valve that was installed in 2012/2013 at the New Bedford Regional Airport.
 - 4) Close the existing interconnection valve that was installed in 2012/2013 at the New Bedford Regional Airport.
 - b. The north 36-inch transmission main can be isolated as follows:
 - 1) Close existing valves at High Hill Reservoir.
 - 2) Close Existing Interconnection Valve 3C.
 - 3) Close the existing valve that was installed in 2012/2013 at the New Bedford Regional Airport.
 - 4) Close the existing interconnection valve that was installed in 2012/2013 at the New Bedford Regional Airport.
 - c. In addition to the main line water mains shut down, side line/side street water mains that may also require isolation and temporary bypass supply include but are not limited to: Shawmut Avenue, Plainville Road, Falmouth Street, and Leboeuf Street.
 - d. Note: Work Area Nos. 1 and 2 require the same shut down extents.
2. Valve Work Area No. 2
 - a. The south 36-inch transmission main can be isolated as follows:
 - 1) Close existing valves at High Hill Reservoir or close Existing Valves 2A or 3A.
 - 2) Close Existing Interconnection Valve 3C.
 - 3) Close the existing valve that was installed in 2012/2013 at the New Bedford Regional Airport.
 - 4) Close the existing interconnection valve that was installed in 2012/2013 at the New Bedford Regional Airport.
 - b. The north 36-inch transmission main can be isolated as follows:
 - 1) Close existing valves at High Hill Reservoir.
 - 2) Close Existing Interconnection Valve 3C.
 - 3) Close the existing valve that was installed in 2012/2013 at the New Bedford Regional Airport.
 - 4) Close the existing interconnection valve that was installed in 2012/2013 at the New Bedford Regional Airport.
 - c. In addition to the main line water mains shut down, side line/side street water mains that may also require isolation and temporary bypass supply include but are not limited to: Shawmut Avenue, Plainville Road, Falmouth Street, and Leboeuf Street.
 - d. Note: Work Area Nos. 1 and 2 require the same shut down extents.

3. Valve Work Area No. 3
 - a. The south 36-inch transmission main can be isolated as follows:
 - 1) Furnish and install line stop at Line Stop Work Area No. 1 on the south 36-inch transmission main.
 - 2) Close the existing valve that was installed in 2012/2013 at the New Bedford Regional Airport.
 - 3) Close the existing interconnection valve that was installed in 2012/2013 at the New Bedford Regional Airport.
 - 4) Close Existing Valve 13 on the north 36-inch transmission main.
 - b. The north 36-inch transmission main can be isolated as follows:
 - 1) Furnish and install line stop at Line Stop Work Area No. 1 on the south 36-inch transmission main.
 - 2) Close the existing valve that was installed in 2012/2013 at the New Bedford Regional Airport.
 - 3) Close the existing interconnection valve that was installed in 2012/2013 at the New Bedford Regional Airport.
 - 4) Close Existing Valve 13 on the north 36-inch transmission main.
 - c. In addition to the main line water mains shut down, side line/side street water mains that may also require isolation and temporary bypass supply include but are not limited to: Lang Street, Pelletier Street, Rayno Street, Jones Street, Aviation Way, Bonin Street, Whitelock Street, New Plainville Road, Dana Street, Lambeth Street and Kings Highway.
 - d. Work shall be constructed to reactivate one 36-inch transmission main as quickly as possible while remaining work on the other 36-inch transmission main is completed. For water supply purposes, it is recommended that the south 36-inch transmission main be reactivated first.
4. Valve Work Area No. 4
 - a. The south 36-inch transmission main can be isolated as follows:
 - 1) Furnish and install line stop at Line Stop Work Area No. 1 on the south 36-inch transmission main.
 - 2) Close the existing valve that was installed in 2012/2013 at the New Bedford Regional Airport.
 - 3) Close the existing interconnection valve that was installed in 2012/2013 at the New Bedford Regional Airport.
 - 4) Close Existing Valve 13 on the north 36-inch transmission main.
 - b. In addition to the main line water mains shut down, side line/side street water mains that may also require isolation and temporary bypass supply include but are not limited to: Lang Street, Pelletier Street, Rayno Street, Jones Street, Aviation Way, Bonin Street, Whitelock Street, New Plainville Road, Dana Street, Lambeth Street and Kings Highway.
 - c. Note: Work Area Nos. 3 and 4 require the same shut down extents.
 - d. Note: Following installation of the line stop at Line Stop Work Area No. 1 to facilitate shut downs to accomplish new construction, new valves shall be installed at Valve Work Area No. 4 so that the line stop can be removed as soon as possible and the new valves at Valve Work Area No. 4 can be utilized for water main shut downs.
5. Valve Work Area No. 5
 - a. The south 36-inch transmission main can be isolated as follows:
 - 1) Close new valves installed at Valve Work Area No. 4.
 - 2) Close Existing Valve 9.

- b. In addition to the main line water mains shut down, side line/side street water mains that may also require isolation and temporary bypass supply include but are not limited to: England Street, Hammond Street, Cox Street, Haskell Street, and Downey Street.
 - c. Note: Work Area Nos. 5 and 6 require the same shut down extents.
6. Valve Work Area No. 6
- a. The south 36-inch transmission main can be isolated as follows:
 - 1) Close new valves installed at Valve Work Area No. 4.
 - 2) Close Existing Valve 9.
 - b. In addition to the main line water mains shut down, side line/side street water mains that may also require isolation and temporary bypass supply include but are not limited to: England Street, Hammond Street, Cox Street, Haskell Street, and Downey Street.
 - c. Note: Work Area Nos. 5 and 6 require the same shut down extents.
7. Valve Work Area No. 7
- a. The south 36-inch transmission main can be isolated as follows:
 - 1) Close new valves installed at Valve Work Area No. 6.
 - 2) Close existing valve in Mount Pleasant Street at Nauset Street.
 - b. In addition to the main line water mains shut down, side line/side street water mains that may also require isolation and temporary bypass supply include but are not limited to: Nash Road, Newcomb Street, Stanley Street, Hathaway Road, and Nauset Street.
8. Valve Work Area No. 8
- a. The north 36-inch transmission main can be isolated as follows:
 - 1) Close new valves and interconnection valves installed at Valve Work Area No. 3.
 - 2) Close Existing Valve 13 on the north 36-inch transmission main.
 - b. In addition to the main line water mains shut down, side line/side street water mains that may also require isolation and temporary bypass supply include but are not limited to: New Plainville Road, Dana Street, Lambeth Road and Kings Highway.
9. Valve Work Area No. 9
- a. The 36-inch transmission mains can be isolated as follows:
 - 1) Close Existing Valve 13 on the north 36-inch transmission main.
 - 2) Close Existing Valve 18 on the north 36-inch transmission main.
 - 3) Close existing 36-inch valve in Ashley Boulevard at Maryland Street.
 - b. In addition to the main line water mains shut down, side line/side street water mains that may also require isolation and temporary bypass supply include but are not limited to: Worcester Street, Church Street, Oliver Street, Seabury Street, Prescott Street, Maywood Street, Hawes Street, Lafayette Street, Milford Street, Lawrence Street, Mary Street, Rochambeau Street, Lowell Street, Hersom Street, Wood Street, Brooklawn Street, Carlisle Street, Irvington Street, Illinois Street, Ohio Street, Jarry Street, and Maryland Street.
 - c. Note: Work Area Nos. 9, 10 and 11 require the same shut down extents.
 - d. Note: Water main replacement in Tarkiln Hill Road requires the same shut down extents.

10. Valve Work Area No. 10
 - a. The 36-inch transmission mains can be isolated as follows:
 - 1) Close Existing Valve 13 on the north 36-inch transmission main.
 - 2) Close Existing Valve 18 on the north 36-inch transmission main.
 - 3) Close existing 36-inch valve in Ashley Boulevard at Maryland Street.
 - b. In addition to the main line water mains shut down, side line/side street water mains that may also require isolation and temporary bypass supply include but are not limited to: Worcester Street, Church Street, Oliver Street, Seabury Street, Prescott Street, Maywood Street, Hawes Street, Lafayette Street, Milford Street, Lawrence Street, Mary Street, Rochambeau Street, Lowell Street, Hersom Street, Wood Street, Brooklawn Street, Carlisle Street, Irvington Street, Illinois Street, Ohio Street, Jarry Street, and Maryland Street.
 - c. Note: Work Area Nos. 9, 10 and 11 require the same shut down extents.
 - d. Note: Water main replacement in Tarkiln Hill Road requires the same shut down extents.

11. Valve Work Area No. 11
 - a. The 36-inch transmission mains can be isolated as follows:
 - 1) Close Existing Valve 13 on the north 36-inch transmission main.
 - 2) Close Existing Valve 18 on the north 36-inch transmission main.
 - 3) Close existing 36-inch valve in Ashley Boulevard at Maryland Street.
 - b. In addition to the main line water mains shut down, side line/side street water mains that may also require isolation and temporary bypass supply include but are not limited to: Worcester Street, Church Street, Oliver Street, Seabury Street, Prescott Street, Maywood Street, Hawes Street, Lafayette Street, Milford Street, Lawrence Street, Mary Street, Rochambeau Street, Lowell Street, Hersom Street, Wood Street, Brooklawn Street, Carlisle Street, Irvington Street, Illinois Street, Ohio Street, Jarry Street, and Maryland Street.
 - c. Note: Work Area Nos. 9, 10 and 11 require the same shut down extents.
 - d. Note: Water main replacement in Tarkiln Hill Road requires the same shut down extents.

12. Valve Work Area No. 12
 - a. The north 36-inch transmission main can be isolated as follows:
 - 1) Close new valves installed at Valve Work Area No. 11.
 - 2) Close Existing Valve 23 on the north 36-inch transmission main.
 - b. In addition to the main line water mains shut down, side line/side street water mains that may also require isolation and temporary bypass supply include but are not limited to: Hersom Street, Wood Street, Brooklawn Street, Carlisle Street, Irvington Street, Princeton Street, Clifford Street, Shaw Street, Central Avenue, Query Street, Glennon Street, Belleville Road, Eugenia Street, Whitman Street, and Nash Road.

13. Valve Work Area No. 13
 - a. The 30- and 36-inch transmission main can be isolated as follow:
 - 1) Close the new valves installed at Valve Work Area No. 12 (or Existing Valve 18 if new valves not yet installed).
 - 2) Close Existing Valve 22 on the 30-inch transmission main.
 - b. In addition to the main line water mains shut down, side line/side street water mains that may also require isolation and temporary bypass supply include but are not limited to: Irvington Street, Princeton Street, Clifford Street, Shaw Street, Central

Avenue, Query Street, Glennon Street, Belleville Road, Eugenia Street, Whitman Street, Nash Road, Tinkham Street, Hathaway Street, Earle Street and Davis Street.

14. Valve Work Area No. 14
 - a. The 30-inch transmission main can be isolated as follows:
 - 1) Close Existing Valve **22** on the 30-inch transmission main.
 - 2) Close Existing Valve **25** on the 30-inch transmission main.
 - b. In addition to the main line water mains shut down, side line/side street water mains that may also require isolation and temporary bypass supply include but are not limited to: Davis Street, Collette Street, Phillips Avenue, Coffin Avenue, Deane Street, Bullard Street, Nye Street, Tallman Street, and Holly Street.

15. Valve Work Area No. 15
 - a. The 30-inch transmission main can be isolated as follows:
 - 1) Close Existing Valve **26** on the 30-inch transmission main.
 - 2) Close the existing valve on the 30-inch transmission main south of Coggeshall Street.
 - b. In addition to the main line water mains shut down, side line/side street water mains that may also require isolation and temporary bypass supply include but are not limited to: Sawyer Street, Beetle Street, Bentley Street, and Coggeshall Street.
 - c. Note: Construction of Valve Work Area No. 15 requires coordination with other contractors as specified.

16. Tarkiln Hill Road
 - a. Water main replacement in Tarkiln Hill Road requires the same shut down extents as Valve Work Area Nos. 9, 10 and 11.

17. Coggeshall Street Water Main Replacement
 - a. Water main replacement in Coggeshall Street requires the same shut down extents as Valve Work Area No. 15.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 01025
MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.01 REMOVAL OF EXISTING WATER TRANSMISSION MAIN VALVES AND
INSTALLATION OF NEW TRANSMISSION MAIN VALVES (ITEMS 1A THROUGH *1P*)

A. Measurement

1. Removal of existing water transmission main valves, piping and manholes and the installation of new valves, pipe, fittings, couplings, manholes, appurtenances and all other required work for all Valve Work Areas (Valve Work Areas 1 through *16*) as shown on the Drawings shall be measured at the Lump Sum prices for each area installed and accepted by the Engineer under Items 1A through *1P* in the Bid Form.

B. Payment

1. Payment for removing existing water transmission main valves, piping and manhole assemblies and furnishing and installing new water transmission main valves, pipe, fittings, couplings, manholes, appurtenances and all other required work of the sizes and types shown on the Drawings and as specified for Valve Work Areas 1 through *16* will be made for the respective quantities as above determined, at the applicable price bid under Items 1A through *1P* in the Bid Form. Such price and payment shall be full compensation for all work as shown on the Drawings, which includes but is not limited to environmental protection procedures; erosion and sedimentation control; all needed test pits for the Valve Work Areas (whether shown on or not specifically called for on the Drawings) to confirm depth and location of existing utilities and/or take measurements and determine pipe outside diameters for materials fabrication; saw cutting existing pavement; trench excavation of all material of every description and of whatever substance encountered (excluding rock and boulder excavation *and excavation below normal grade*, which will be paid for under separate bid items); sheeting and bracing; excavation support and protection; protection and support of existing utilities; dust control; dewatering and drainage; dewatering and dechlorinating/dechloraminating all existing water mains shut down to facilitate construction of new work; handling leakage in water mains as specified; furnishing and installing any geotextile filter fabric required; disposal of excess excavated material; removal and disposal of existing water main piping, valves, and manhole structures where noted on the Drawings or as required by Engineer; capping and restraining existing water mains if required; capping existing water mains shut down to prevent debris intrusion during construction; hydrostatically and leakage testing new butterfly valves in accordance with Section 02640 prior to installation; furnishing, laying and jointing new butterfly valves and manual air release assemblies, including specified pipe and couplings, brass wedges, all pipe and fittings; furnishing and installing all required joint restraints and thrust blocks (all joints must be restrained); furnishing, laying and installing bypass piping, fittings, gate valves and appurtenances of the sizes and types specified for new transmission main valves as shown on the Drawings; furnishing and installing position indicators and overtorque protectors required for new valves as specified; furnishing and installing any flanged coupling adapters or other fittings and adapters necessary to complete connections of new interconnection piping based on Contractor's specific proposed sequence of work, whether or not they are shown on the Drawings; *removing existing hydrants and* furnishing and installing *new* fire hydrants (if

new hydrants are shown within work area payment limits); furnishing and installing blowoff/pumpout piping, manholes and accessories (if shown within Valve Work Area payment limits); furnishing and installing joint restraints or thrust blocks for existing water mains as required; testing of all pipe, valves, fittings and appurtenances *in accordance with Section 01445* prior to backfilling for leaks as specified; cleaning and disinfection of all pipe, fittings, valves and appurtenances as specified to clean and disinfect new pipes and existing pipes shut down to facilitate new work, all of which shall be performed in accordance with AWWA standards as specified; filling of all dewatered sections *of existing and new piping* and the flushing and dechloramination of one complete volume of the section; bacteriological testing of the section and rechlorination of the section if bacteriological tests fail and the repeat flushing, disinfection and testing as required at no additional cost to the Owner; furnishing and installing valve boxes and covers, extension shafts, and position indicators; furnishing, installing and placing controlled density fill (CDF)/controlled low strength material (CLSM) as shown on the Drawings for trench backfill; furnishing and installing granular fill materials as shown on the Drawings and as specified; compaction and backfilling; restoring the trench to surface grade; restoring all physical features to grade and to the condition existing prior to construction; and all other work necessary to complete the Valve Work Areas. Loaming and seeding will be paid for under Miscellaneous Work and Cleanup. Furnishing and installing *gravel for pavement subbase*, initial pavement, permanent trench-width pavement and cold planing and full-width pavement overlay as specified herein for any pavement disturbed during construction will be made under the separate and respective bid items included in the Bid Form. *Replacement of sidewalks and curbing damaged during construction or replacement of sidewalks and curbing within limits of new pavement as specified will be paid for under Miscellaneous Work and Cleanup.* Temporary service pipe, hydrants and service connections will be paid for under the separate and respective items in the Bid Form.

1.02 LINE STOPS TO FACILITATE SHUT DOWNS FOR WATER TRANSMISSION MAIN VALVE REMOVAL AND INSTALLATION OF NEW WATER TRANSMISSION MAIN VALVES (ITEM 2)

A. Measurement

1. Line stops and concrete thrust blocks to facilitate water transmission main valve removal and installation of new water transmission main valves shall be measured as the number of each line stop and concrete thrust block installed and accepted by the Engineer under Item 2 in the Bid Form.

B. Payment

1. Payment for furnishing and installing 36-inch line stops of the class and size specified will be made for the respective quantities as above determined, at the applicable price bid under Item 2 in the Bid Form. Such price and payment shall be full compensation for all work as specified in Section 02767, which includes but is not limited to trench excavation of all material of every description and of whatever substance encountered (excluding rock and boulder excavation *and excavation below normal grade*); sheeting and bracing; excavation support and protection; dust control; dewatering and drainage; all measures necessary for environmental protection; disposal of excess excavated material; supporting and protecting existing utility lines in the trench; installing concrete thrust blocks as required to restrain existing water mains; furnishing and installing the tapping sleeve and line stops as specified; disinfecting and testing the line stop; maintaining the line stop location

throughout the required construction duration; removing the line stops when work is complete as specified; furnishing and installing all backfill material including common fill and select common fill; backfilling; compaction; restoring the trench surface to grade; restoring all physical features to grade and to the condition existing prior to construction; cleaning; and all else incidental thereto for which separate payment is not provided under other Items in the Bid Form. Loaming and seeding will be paid for under Miscellaneous Work and Cleanup. Furnishing and installing initial pavement, permanent trench-width pavement and cold planing and full-width pavement overlay as specified herein for any pavement disturbed during construction will be made under the separate and respective bid items included in the Bid Form.

1.03 DUCTILE IRON WATER MAIN AND FITTINGS (ITEMS 3A THROUGH 3L)

A. Measurement

1. Ductile iron water mains of the size and type specified on the Bid Form (Items 3A through 3F) for the Tarkiln Hill Road and Coggeshall Street water main replacements will be measured in place on a linear foot basis. Measurement for payment does not signify that the water main is accepted. Measurement for length of ductile iron water main will be along the horizontal centerline of the pipe, with no deductions for valves or fittings. Measurement will be to the nearest tenth of a foot. Ductile iron water mains for Valve Work Areas will be paid for under the Lump Sum items for the Valve Work Areas in the Bid Form and no payment will be included in Bid Items 3A through 3F for piping installed at Valve Work Areas.
2. Cast or ductile iron fittings (tees, bends, crosses, reducers, caps/plugs, etc.) installed in the completed project (Item 3G) for the Tarkiln Hill Road and Coggeshall Street water main replacements shall be measured by the pound, excluding cement lining, based on tabular weights obtained from the current ANSI Standards. The weight of the fittings shall not include the weight of glands, bolts, nuts, gaskets or accessories. Fittings for Valve Work Areas will be paid for under the Lump Sum items for the Valve Work Areas in the Bid Form and no payment will be included in Bid Items 3G for fittings installed at Valve Work Areas.
3. Couplings (Item 3H through 3L) will be measured as the actual number of each size of coupling installed in the completed project and accepted by the Engineer. Couplings for Valve Work Areas will be paid for under the Lump Sum items for the Valve Work Areas in the Bid Form and no payment will be included in Bid Items 3H through 3L for couplings installed at Valve Work Areas.

B. Payment

1. Payment for furnishing and installing ductile iron pipe of the class and size specified will be made for the respective quantities as above determined, at the applicable price per linear foot bid under Items 3A through 3F in the Bid Form. Such price and payment shall be full compensation for saw cutting existing pavement; trench excavation of all material of every description and of whatever substance encountered (excluding rock and boulder excavation and excavation below normal grade); sheeting and bracing; excavation support and protection; dewatering and drainage; disposal of excess excavated and unacceptable material; dewatering and removing and disposing of existing water mains and valves; supporting existing utility lines in the trench; furnishing, laying and jointing the pipe

including all restrained joints and concrete thrust blocks required and as specified; concrete encasement of water mains, if necessary; furnishing and installing all backfill material as shown on the Drawings including common fill and select common fill; backfilling; compaction; restoring the trench surface to grade (excluding loaming and seeding and pavement); restoring all physical features to grade; cleaning, flushing, chlorinating and testing the pipe, including water quality sampling; and all else incidental thereto for which separate payment is not provided under other Items in the Bid Form. Loaming and seeding will be paid for under Miscellaneous Work and Cleanup. Furnishing and installing initial pavement, permanent trench-width pavement and cold planing and full-width pavement overlay as specified herein for any pavement disturbed during construction will be made under the separate and respective bid items included in the Bid Form. ***Replacement of sidewalks and curbing damaged during construction or replacement of sidewalks and curbing within limits of new pavement as specified will be paid for under Miscellaneous Work and Cleanup.***

2. Payment for furnishing and installing fittings based on weights as herein specified will be made under Item 3G. Payment shall not include weight of glands, bolts, nuts, gaskets or accessories. Price and payment shall be full compensation for furnishing and installing the fitting with cement lining, glands, bolts, nuts, gaskets, jointing and all work required for, or incidental to the satisfactory completion of the Item for which payment is not provided under other items in the Bid Form.
3. Payment for furnishing and installing couplings of the required size will be made for the respective quantities determined above at the applicable unit price bid under Items 3H through 3L in the Bid Form. Price and payment shall be full compensation for furnishing and installing the couplings, glands, gaskets, bolts, nuts, jointing and all work required for or incidental to the satisfactory completion of the Item for which payment is not provided under other items in the Bid Form.
4. Payment for Rock and Boulder Excavation, Excavation Below Normal Grade, ***Gravel Subbase for Paving*** and Paving will be made under the respective Bid Items in the Bid Form. Loaming and Seeding ***and replacement of sidewalks and curbing damaged during construction and the replacement of sidewalks and curbing within limits of new pavement*** will be paid for under Miscellaneous Work and Cleanup.

1.04 VALVES AND HYDRANTS (ITEMS 4A THROUGH 4D)

A. Measurement

1. Butterfly valves (Item 4A) for the Tarkiln Hill Road and Coggeshall Street water main replacements shall be measured as the number of each at sizes actually installed in the completed project and accepted by the Engineer. Butterfly valves for the Valve Work Areas will be paid under the Valve Work Area Lump Sum Items in the Bid Form and will not be measured for payment under Item 4A.
2. Gate valves (Items 4B through 4C) for the Tarkiln Hill Road and Coggeshall Street water main replacements shall be measured as the number of each at sizes actually installed in the completed project and accepted by the Engineer. Gate valves for the Valve Work Areas will be paid under the Valve Work Area Lump Sum Items in the Bid Form and will not be measured for payment under Items 4B through 4D.

3. Hydrants (Item 4D) for the Tarkiln Hill Road and Coggeshall Street water main replacements shall be measured as the actual number of new hydrant assemblies installed and accepted by the Engineer. Hydrants within the Valve Work Areas will be paid under the Valve Work Area Lump Sum Items in the Bid Form and will not be measured for payment under Item 4D.

B. Payment

1. Payment for furnishing and installing butterfly valves (Item 4A) shall include furnishing and installing butterfly valves with boxes, restraints and covers as specified. Price and payment will be full compensation for cutting existing pavement; all excavation (excluding rock and boulder excavation and excavation below normal grade); excavation support and protection; dewatering and drainage; furnishing and placing screened gravel where required; setting; jointing; providing screened gravel drainage pocket; tie rods; furnishing and installing restrained joints and fittings; **furnishing and installing sample taps as shown on the Drawings**; furnishing and installing concrete **valve supports and** thrust blocks as required; backfilling and compaction; cleaning; testing; chlorinating; and all work required for or incidental to the satisfactory completion of the Items for which separate payment is not provided under other items in the Bid Form.
2. Payment for furnishing and installing gate valves (Items 4B through 4C) shall include furnishing and installing gate valves with boxes, restraints and covers as specified. Price and payment will be full compensation for cutting existing pavement; all excavation (excluding rock and boulder excavation and excavation below normal grade); excavation support and protection; dewatering and drainage; furnishing and placing screened gravel where required; setting; jointing; providing screened gravel drainage pocket; tie rods; furnishing and installing restrained joints and fittings; **furnishing and installing sample taps as shown on the Drawings**; furnishing and installing concrete **valve supports and** thrust blocks; backfilling and compaction; cleaning; testing; chlorinating; and all work required for or incidental to the satisfactory completion of the Items for which separate payment is not provided under other items in the Bid Form.
3. Payment for furnishing and installing hydrants (Item 4D) shall include all work as specified and as shown on the Drawings. Payment shall include cutting existing pavement; all excavation (excluding rock and boulder excavation and excavation below normal grade); excavation support and protection; dewatering and drainage; removing and disposing of or delivering existing hydrants that are property of the Owner to an area designated by the Owner; installation of the main line tee of the size required with anchoring, gate valve, new pipe, fittings, connections, hydrant, concrete thrust blocks for main line tee and hydrant; furnishing and installing restrained joints and fittings; furnishing and installing concrete thrust blocks; placing screened gravel and crushed stone; cleaning; testing; chlorinating; and all other work **as shown on the Drawing details** to complete the installation.
4. Payment for Rock and Boulder Excavation, Excavation Below Normal Grade, **Gravel for Pavement Subbase** and Paving will be made under the respective Bid Items in the Bid Form. Payment for Loaming and Seeding **and replacement of sidewalks and curbing damaged during construction and the replacement of sidewalks and curbing within limits of new pavement** will be made under Miscellaneous Work and Cleanup.

1.05 WATER SERVICE CONNECTIONS (ITEMS 5A THROUGH 5F)

A. Measurement

1. Corporation stops (Items 5A and 5B) for the Tarkiln Hill Road and Coggeshall Street water main replacements will be measured as the actual number of each size of corporation stop installed in the completed project and accepted by the Engineer. Corporation stops for the Valve Work Areas, if required, will be made under the Valve Work Area Lump Sum Items in the Bid Form.
2. Curb stops (Items 5C and 5D) for the Tarkiln Hill Road and Coggeshall Street water main replacements will be measured as the actual number of each size of curb stops with boxes installed in the completed project and accepted by the Engineer. Curb stops for the Valve Work Areas, if required, will be made under the Valve Work Area Lump Sum Items in the Bid Form.
3. Copper tubing (Items 5E and 5F) for the Tarkiln Hill Road and Coggeshall Street water main replacements for water service connections installed in streets and sidewalk areas will be measured as the actual number of linear feet of each size of tubing installed in the completed project as measured from the centerline of the water main to the property line. Copper service tubing needed for the Valve Work Areas will be made under the Valve Work Area Lump Sum Items in the Bid Form.

B. Payment

1. Payment for furnishing and installing corporation stops of the required size will be made for the respective quantities as determined above at the applicable unit price bid under Items 5A and 5B of the Bid Form. Price and payment shall be full compensation for all work of all cutting existing pavement and excavation (excluding rock and boulder excavation and excavation below normal grade); excavation support and protection; dewatering and drainage; furnishing and installing the corporation stops and appurtenances; tapping; saddles where required; jacking or other means of installation that does not require pavement excavation where directed by the Engineer; backfilling; compaction; restoring the trench surface to grade excluding pavement; restoring all physical features to grade; cleaning, chlorinating; and all else incidental thereto for which payment is not provided under other items in the Bid Form.
2. Payment for furnishing and installing curb stops of the required size will be made for at the respective quantities as determined above at the applicable unit price bid under Items 5C and 5D of the Bid Form. Price and payment shall be full compensation for cutting existing pavement and all excavation (excluding rock and boulder excavation and excavation below normal grade); excavation support and protection; dewatering and drainage; furnishing and installing the curb stops with boxes; backfilling; compaction; restoring the trench surface to grade excluding pavement; restoring all physical features to grade; cleaning, chlorinating; setting boxes; and all else incidental thereto for which payment is not provided under other items in the Bid Form.
3. Payment for furnishing and installing copper tubing for service connections of the required type and size will be made for the respective quantities as determined above at the applicable price under Items 5E and 5F of the Bid Form. Price and payment shall be full compensation for cutting existing pavement; all trench excavation (excluding rock and

boulder excavation and excavation below normal grade); excavation support and protection; dewatering and drainage; furnishing and installing the tubing and all required adapters, reducers, fittings and appurtenances of the necessary size required; chlorinating; backfilling; restoring the trench surface to grade; restoring physical features to their original condition; disposal of excavated materials; and all work required for or incidental to the satisfactory completion of the Items for which payment is not provided under other items in the Bid Form.

4. Payment for Rock and Boulder Excavation, Excavation Below Normal Grade, ***Gravel for Pavement Subbase***, and Paving will be made under the respective Bid Items in the Bid Form. Loaming and Seeding ***and replacement of sidewalks and curbing damaged during construction and the replacement of sidewalks and curbing within limits of new pavement*** is paid for under Miscellaneous Work and Cleanup.

1.06 ***TEMPORARY SERVICE PIPE, HYDRANTS AND SERVICE CONNECTIONS AND INSERTION VALVES TO REPLACE INOPERABLE VALVES (ITEMS 6A THROUGH 6I)***

A. ***Measurement***

1. ***The temporary service pipe actually furnished, installed and removed by the Contractor under Items 6A, 6B and 6C will be measured for payment along the centerline of the pipe on a linear foot basis, including fittings and valves. Pipes and temporary hose smaller than 2-inches in size which are provided for temporary service connections or other purposes will not be measured for payment. Pipe not ordered installed by the Engineer, but employed by the Contractor solely for his own convenience and use, will not be measured for payment.***
2. ***Measurement for furnishing, installing and removing temporary fire hydrants as directed by the Engineer and under Item 6D will be on an each basis. If the Contractor installs any temporary hydrants directly on the outlets of permanent hydrants, those temporary hydrants will not be measured for payment.***
3. ***Measurement for furnishing, installing, and removing temporary service connections to buildings and houses, for which no measurement or additional payment will be made, includes temporary service pipe (however made by the Contractor) and other temporary service connections (however made by the Contractor) to commercial or other non-residential buildings normally served by permanent water service connections. Temporary service connections to all buildings and houses as specified in Section 02666 shall be included in the price and payment for furnishing and installing temporary bypass piping in items 6A, 6B and 6C.***
4. ***Measurement for furnishing and installing tap holes and backfilling of tap hole excavations for temporary service piping (Item 6E) as described in Section 02666 and as directed by the Engineer will be on an each basis.***
5. ***Measurement for furnishing and installing insertion valves for shut down of existing water mains if inoperable side line valves are encountered (Items 6F through 6I) as directed by the Engineer will be on an each basis.***

B. Payment

1. *Payment for furnishing, installing and removing temporary service pipe of the size required will be made for the quantity above determined at the contract price per linear foot of the appropriate size of the pipe as bid in the Bid Form in Items 6A, 6B, and 6C, which price and payment shall be full compensation for furnishing all labor, equipment and materials for installing the pipe and pressure reducers, if required, service pipe fittings, and wye branches at sill cocks for customer's outdoor watering; for all excavation including cutting and removing existing pavement systems; sheeting and bracing; decking; protecting the temporary pipe during the construction period; furnishing, installing and connecting temporary service pipes with hydrants and other facilities required in connection with the temporary service piping; furnishing, installing and removing all temporary services to buildings and houses; disinfecting, flushing and pressure testing all temporary pipe; performing and coordinating all required water quality sampling and testing of temporary piping water samples; placement of cold patch; removal of temporary pipe when construction is completed; furnishing and installing temporary and permanent trench-width pavement as specified to restore the surface to grade where temporary service pipe was installed during construction; and restoring lawns and other surfaces in private property disturbed by the Contractor's operations, all as specified. The Contractor is required to submit a daily log as specified in Section 02666 of all building addresses where temporary service connections have been installed and removed. No payment will be made under Item 6A, 6B, and 6C until the Contractor has submitted to the Engineer all required and acceptable temporary service connection installation and removal logs as specified in Section 02666 (this requirement is so that the Owner can have a record of when existing service connections are on temporary bypass pipe and not metered).*
2. *Payment for furnishing, installing and removing temporary fire hydrants will be made for the quantity as above determined at the contract price bid in the Bid Form under Item 6D, which price and payment shall be full compensation for furnishing all labor, equipment and materials for installing the temporary fire hydrants including the necessary valves, fittings and other furnishings required; disinfecting, flushing and pressure testing all temporary hydrant; performing and coordinating all required water quality sampling and testing of temporary hydrant water samples; maintaining the hydrant in service during the water main rehabilitation work; and removing the hydrants when the work is completed. The Contractor shall notify the Owner and local Fire Departments of all existing hydrants taken out of service. All out-of-service hydrants shall be covered with bags that are clearly labeled "Out Of Service" or "Not In Service". If the Contractor installs any temporary hydrants directly on the outlets of permanent hydrants, no payment will be made for those temporary hydrants. No payment will be made under this Item until the Contractor makes all proper notifications as described above to notify the Owner and local Fire Departments as to which hydrants have been taken out of service. No payment will be made under this Item until the Contractor confirms with the Fire Departments that the temporary hydrants are compatible with equipment used by the Fire Departments.*
3. *Payment for providing tap holes for temporary service connections when specifically ordered in writing by the Engineer will be made for the quantity as determined at the unit price bid for each tap hole, under Item 6E in the Bid Form, which price and payment shall be full compensation for furnishing all labor, equipment and materials for all excavating; cutting and removing existing pavement; furnishing, placing and*

removing sheeting, bracing and steel decking; tapping and installing tapping sleeve and valve or any other means to make proper connection to existing water main; maintaining and backfilling excavation for tap hole; backfilling; compaction; furnishing and installing temporary and permanent trench-width pavement as specified to restore the surface to grade; and all additional costs and expenses incurred for maintenance in connection therewith and incidental thereto for which payment is not included under other items.

4. *Price and payment for furnishing and installing insertion valves of the type and size required and as specified to isolate and shut down side line/side street water mains where inoperable valves are encountered or that do not completely shut (Items 6F through 6I) shall include shall include furnishing and installing insertion valves as specified and payment will also be full compensation for cutting existing pavement; all excavation (excluding rock and boulder excavation and excavation below normal grade); excavation support and protection; dewatering and drainage; furnishing and placing screened gravel where required; setting; installing insertion valves; providing screened gravel drainage where needed; furnishing and installing restraints or concrete thrust blocks as required; backfilling and compaction; cleaning; testing; chlorinating; and all work required for or incidental to the satisfactory completion of the Items for which separate payment is not provided under other items in the Bid Form.*
5. *Prices bid under Items 6A through 6I shall include all costs to furnish install all temporary bypass piping, hydrants, service connections and insertion valves as specified in Sections 02640 and 02666.*

1.07 **ROCK AND BOULDER EXCAVATION AND EXCVATION BELOW NORMAL GRADE (ITEMS 7A, 7B AND 7C)**

A. Measurement

1. When rock is encountered, the material shall be uncovered and the Engineer notified. The Engineer will take cross sections of the rock surface. If the Contractor fails to uncover the rock and notify the Engineer to allow ample time for cross-sectioning the undisturbed material, the Contractor shall have no right-of-claim to any classification other than that allowed by the Engineer. Removal of old concrete foundations, reinforced concrete subbase, *cobblestones and trolley tracks* found beneath roadway pavement, if any, shall be classified as rock.
2. Measurements of rock excavation will extend 12 inches below the bottom of the pipe. Maximum trench widths will be indicated in Section 01046 (maximum trench width corresponds to initial trench paving).
3. Boulders of more than 1 cubic yard in volume when encountered in earth or trench excavation will be measured for payment.
4. The quantity of rock and boulder excavation to be paid for will be the number of cubic yards of rock or boulders measured in place, as directed by the Engineer, within the limits herein specified.
5. Measurement of earth excavation and refill below normal grade (Item 7C) will extend only downward from a normal grade to a depth determined by the Engineer in the field, for a

maximum width of trench as specified in Section 01046 (maximum trench width corresponds to initial trench paving).

6. If the trench bottom is below normal grade through error by the Contractor or if improper drainage softens the subgrade and additional excavation in the trench is required before laying the pipe, such removal and replacement of material will not be measured for payment under Item 7C. No allowance will be made for shrinkage or compaction of gravel in place. Measurement by truck count will not be permitted.
7. Screened gravel used in accordance with the Specifications to replace excavation below normal grade or for rock and boulder removal is a part of this work and will not be measured for separate payment under the Bid Item for Screened Gravel.

B. Payment

1. Payment for rock and boulder excavation (Items 7A and 7B) will be made for the quantities as above determined, measured in cubic yards, at the unit price bid in the Bid Form, which price and payment will be full compensation for excavation; breaking and disposing of rock, following all requirements of other utility agencies to protect other utilities (i.e., gas, electric, cable, telephone, etc.) in adjacent trenches; backfilling and providing screened gravel for any deficiency of trench backfill; and all work incidental thereto, for which payment is not provided under other items.
2. Old concrete foundations, reinforced concrete subbase, ***cobblestones and trolley tracks***, if any are encountered during excavation, will be measured and paid for as rock excavation and removal. ***Price and payment shall include delivery of removed cobblestones and trolley tracks removed to the Owner at a location designated by the Owner.***
3. Payment for earth excavation and refill below normal grade will be made for the quantity as above-determined at the price per cubic yard bid for Item 7C in the Bid Form. Price and payment shall be full compensation for excavation and disposal of all materials below normal grade; furnishing, placing and compacting screened gravel; and all other work incidental thereto for which separate payment is not provided under other items in the Bid Form.

1.08 REMOVAL AND DISPOSAL OF EXISTING ASBESTOS CEMENT (A.C.) WATER MAINS (ITEM 8)

A. Measurement

1. Removal of existing asbestos cement (A.C.) water main (Item 8) will be measured on a linear foot basis.

B. Payment

1. Payment for removal of asbestos cement (A.C.) water main will be made for the respective quantities as above determined at the applicable bid price under Item 8 in the Bid Form. Such price and payment shall be full compensation for cutting, capping, removing and properly disposing of the asbestos cement pipe in accordance with all applicable federal, state and local laws and regulations. The Contractor is solely responsible for the proper

disposal of all asbestos cement pipe removed in accordance with all applicable federal, state and local regulations.

1.09 FILL MATERIALS (ITEMS 9A THROUGH 9C)

A. Measurement

1. Gravel (Item 9A) for pavement, driveway, and sidewalk base and subbase as shown on the Drawing and Drawing details of the type required and specified will be measured in cubic yards to the depth and width, to 1/10 of a cubic yard in accuracy as specified in Section 01046. When used for pavement subbase, the maximum width measured for payment shall be as specified in Section 01046 for paving subbase. The width measured for payment shall be centered horizontally along the center of the pipe. Maximum depth measured for payment shall be 1 foot. No allowance will be made for loss from consolidation of material. Truck measurement will not be permitted.
2. Screened gravel (Item 9B) when used for unspecified and miscellaneous purposes and for utility crossings and incorporated in the work will be measured as directed by the Engineer. Under no circumstances will measurement for payment under this item be made unless specifically ordered by the Engineer.
3. Controlled Density Fill (CDF)/Controlled Low Strength Material (CLSM) used in conjunction with utility crossings and at other miscellaneous locations when its use is ordered by the Engineer under Item 9C will be measured in cubic yards at actual in-place dimensions as determined by the Engineer. If used in trenches, the payment limits shall not exceed the trench widths as Specified in Section 01046 for initial trench paving. CDF/CLSM used for trench backfill as part of Valve Work Areas will be paid for under the respective Valve Work Areas and will not be measured for separate payment under Bid Item 9C.

B. Payment

1. Payment for furnishing and placing gravel for pavement, driveway and sidewalk base and subbase and for screened gravel will be made for the quantity determined above at the respective unit prices bid for Items 9A and 9B, respectively. Price and payment shall be full compensation for furnishing, hauling, placing, and compacting gravel and all else incidental thereto for which separate payment is not provided under other items in the Bid Form.
2. Payment for furnishing and placing Controlled Density Fill (CDF)/Controlled Low Strength Material (CLSM) as specified locations when its use is ordered by the Engineer will be made for the quantity determined above at the respective unit prices bid for Item 9C in the Bid Form. Price and payment shall be full compensation for furnishing, hauling, and placing or pumping CDF/CLSM, and all else incidental thereto for which separate payment is not provided under other items in the Bid Form.

1.10 MISCELLANEOUS CONCRETE (ITEM 10)

A. Measurement

1. Concrete (Item 10) shall be measured in place in the completed work by average dimensions in each of three planes. Slip measurement shall not be allowed.

B. Payment

1. Payment for concrete used for miscellaneous purposes when ordered by the Engineer shall be made for the quantity measured in place (cubic yards) at the unit price bid in the Bid Form for Item 10 and shall be full compensation for all work required for, or incidental to the satisfactory completion of the Item as specified herein for which separate payment is not provided under other items in the Bid Form.

1.11 PAVEMENT REPAIR AND RESURFACING (ITEMS 11A THROUGH 11D)

A. Measurement

1. Measurement for initial trench-width pavement in City Streets, 3-inch thick hot mix asphalt bituminous binder course (Item 11A), will be in square yards as actually placed, within the limits established in Section 01046. Measurement shall be horizontally centered along the center of the pipe.
2. Measurement for permanent trench-width pavement in City Streets, 1-1/2 inch thick hot mix asphalt bituminous binder course and 1-1/2 inch thick hot mix asphalt bituminous surface course (Item 11B), will be in square yards as actually placed, within the limits established in Section 01046. Measurement shall be horizontally centered along the center of the pipe.
3. Measurement for permanent curb-to-curb pavement in City Streets, including cold planing existing paving surface as specified and 1-1/2 inch thick hot mix asphalt bituminous surface course overlay (Item 11C), will be in square yards as actually placed.
4. Measurement under Item 11D shall be of the actual number of existing curb stop boxes and existing valve boxes adjusted or realigned and accepted by the Engineer.

B. Payment

1. Payment for 3-inch thick hot mix asphalt bituminous binder course initial trench-width pavement in City Streets, complete in place and approved by the Engineer, will be made for the quantity determined above and in accordance with all work as specified in Section 02576 at the price bid for Item 11A in the Bid Form. This price and payment shall be full compensation for cleaning and priming the edges of the existing pavement; cleaning and preparing the surface of the gravel base; furnishing, placing and maintaining the initial pavement, including labor, materials, calcium chloride for dust control, maintenance of traffic and all else incidental thereto for which payment is not provided under other items in the Bid Form.
2. Payment for permanent trench-width pavement in City Streets, including 1-1/2 inch thick hot mix asphalt bituminous binder course and 1-1/2 inch thick hot mix asphalt bituminous

surface course, will be made for the quantity as above determined and in accordance with all work as specified in Section 02576 **and as shown on the Drawing details** at the price bid for Item 11B in the Bid Form, which price and payment shall be full compensation for removal of initial trench pavement; saw cutting 1 foot on both sides of trench; reshaping and removing, replacing and rolling gravel subbase to 3 inches below existing pavement; resetting all castings; priming the edges of pavement and tack coat; furnishing, placing and compacting bituminous concrete courses, and applying bitumen tack coat, hot poured rubberized asphalt sealer; maintenance of traffic; calcium chloride for dust control; water for dust control; **replacement of pavement markings**; and performing all finishing work and all else incidental thereto.

3. Payment for permanent curb-to-curb overlay pavement in City Streets as specified in Section 02576, including cold planing existing pavement and overlaying with 1-1/2 inch thick hot mix asphalt bituminous surface course, will be made for the quantity as above determined at the price bid for Item 11C in the Bid Form, which price and payment shall be full compensation for cold planing existing pavement as specified; resetting all castings; priming the edges of pavement and tack coat; furnishing, placing and compacting bituminous concrete courses; applying bitumen tack coat, hot poured rubberized asphalt sealer; **leveling depressions in initial pavement with bituminous material**; maintenance of traffic; calcium chloride for dust control; water for dust control; **replacement of pavement markings**; and performing all finishing work and all else incidental thereto.
4. Payment under Items 11A through 11C shall include all costs of furnishing, storing and applying calcium chloride and maintenance of traffic as required for dust control.
5. Payment under Items 11A through 11C shall include all costs to meet all requirements of Section 02576.
6. Payment for restoring driveways and sidewalks of whatever type encountered **and to replace existing sidewalks and curbing within limits shown on the Drawing** will be made under the item for Miscellaneous Work and Cleanup.
7. If the thickness of pavement ordered placed by the Engineer is greater than that specified, payment will be prorated on the basis of the thickness of material actually ordered placed. No payment will be made for any additional pavement not specifically ordered in writing by Engineer.
8. Payment for gravel subbase is included in Item 9A.
9. Payment for each unit under Item 11D shall include all work needed to adjust or align existing curb stop boxes and existing valve boxes that are found to be misaligned so the existing curb stop or existing valve can be operated. Payment shall include excavation, (excluding rock and boulder excavation and excavation below normal grade); realignment of existing curb stop or existing valve box; placement and compaction of backfill; all necessary work to obtain proper shutdown of existing curb stop or valve; and all other work to obtain proper alignment and shutdown of existing curb stops and valve.
10. **Payment for replacing traffic loops and conduit that are damaged during construction and paving operations is included in Miscellaneous Work and Cleanup.**

1.12 EQUIPMENT FOR TRAFFIC MANAGEMENT (ITEM 12)

A. Measurement and Payment

1. Payment for furnishing, installing and maintaining traffic control measures and equipment (Item 12) for all Valve Work Areas and the Tarkiln Hill Road and Coggeshall Street water main replacements will be made at the Lump Sum price in the Bid Form. Such price and payment shall be full compensation for successful control of traffic and furnishing, installing, maintaining, protecting, and removal of all traffic control devices, equipment, measures and all else incidental thereto for which separate payment is not provided under other Items in the Bid Form.

1.13 TEST PITS (ITEM 13)

A. Measurement and Payment

1. Test pits for the purpose of locating underground utilities; exposing, repairing and replacing existing valves; determining pavement depth/material and for other purposes as ordered by the Engineer or as shown on the Drawings are specified under Section 02221. Test pits shall be made where shown on the Drawings and as directed by the Engineer. Test pits shall be paid at the unit price bid in Item 13 in the Bid Form and shall be full compensation for cutting pavement; all excavation (excluding rock and boulder excavation); sheeting and bracing; excavation support and protection; backfilling and compaction; and all other work required for or incidental to the satisfactory completion of this Item. The measured quantity of excavation for test pits will be in cubic yards in accordance with the following test pit depths and established volumes per vertical foot:

Test Pit Depth	Cubic Yards per Vertical Foot
0 to 8 feet	1.5
Over 8 feet	2.0

2. Test pits for Valve Work Areas will not be measured and paid for under Item 13 and shall be included under the respective Lump Sum Bid Items in the Bid Form.

1.14 MISCELLANEOUS WORK AND CLEANUP (ITEM 14)

A. Measurement and Payment

1. Payment for Miscellaneous Work and Cleanup (Item 14) will be made at the lump sum price bid in the Bid Form. This price shall include costs incurred by the Contractor for usage of public supply water as specified and defined in Section 01046, and shall be full compensation for all labor, materials, equipment and incidentals required to do all the work specified in Section 02901 including work not specifically included under other items but which are obviously necessary for the proper completion of the Contract. ***Work under Miscellaneous Work and Cleanup is as specified in Section 02901 and includes job photographs; furnishing and providing temporary facilities in accordance with Section 01500, including the procuring all required equipment as specified in Section 01500; staked haybales, silt fences and catch basin drop inlet sediment filters; coordinating Owner obtaining required police details for Contractor's work; coordination with other***

contractors and connection to work by others; crossing and relocating existing utilities; repair of existing utilities damaged during construction; restoration and replacement of driveways, sidewalks, fences and curbing disturbed by construction, including the replacement of sidewalks and curbing where noted within new paving limits as shown on the Drawings; protection and/or removal and reinstallation of signs, lampposts and mailboxes; protection and bracing of utility poles; restoring easements and Right-Of-Ways; loaming and seeding; cleaning up; all work to weld manhole and valve covers for existing, inoperable valves as specified and as directed by Engineer; and all other incidental work required for the successful completion of the project.

1.15 MOBILIZATION (ITEM 15)

A. Measurement

1. Measurement for payment of mobilization costs shall be on a Lump Sum basis but the cost shall not exceed five percent of the base bid.

B. Payment

Payment of the Lump Sum price bid in the Bid form for Item 15 shall be full compensation for all costs associated with initiating the Contract, exclusive of the cost of materials. Payment shall include compensation for all insurance, bonds, *permits*, project signs, site preparation, and in general the costs associated with establishing the work on-site and to ensure that the construction will proceed in a continuous manner.

END OF SECTION

**SECTION 01500
TEMPORARY FACILITIES**

PART 1 GENERAL

1.01 SCOPE OF WORK

- A. *Contractor shall provide offices to be used for the duration of the Contract for its own personnel and its subcontractors on the job site. Such offices shall be maintained in a clean, orderly condition. An authorized representative shall be present at all times the Work is in progress. Instructions received there from the Engineer shall be considered as delivered to the Contractor.*
- B. *Furnish all labor, equipment, materials, and incidentals necessary and provide separate temporary facilities for the Contractor's use and the Engineer's use, as specified herein and as shown on the drawings.*
- C. *Operate and maintain temporary facilities for the duration of the project and as directed by the Engineer. All cost and use charges for temporary facilities shall be included in the Contract Price.*
- D. *Engineer's Office: Contractor shall provide a temporary office facility for exclusive use by the Engineer for the duration of the project. The Contractor may provide as an alternate to the on-site trailer, a separate office space in a building adjacent to the project area that is at least equal area as specified for use by the Engineer.*
- E. *All temporary offices shall be installed in accordance with the local codes including permitting, and ADA accessibility, if applicable. Contractor is responsible for paying all fees.*
- F. *Contractor shall connect temporary trailers and/or office space to municipal water and wastewater service (if available). Otherwise, provide septage pumping and bottled water service.*

1.02 RELATED WORK

- A. *Control of Work is included in Section 01046.*
- B. *Miscellaneous Work is included in Section 02901.*
- C. *Special Provisions is included in Section 01170.*

1.03 SUBMITTALS

- A. *Submit shop drawings and product data, in accordance with Section 01300, showing materials of construction and details of installation for:*
 - 1. *Site Plan: Show the proposed locations for temporary facilities including offices, temporary utilities, storage containers/buildings, vehicle access and parking areas, material laydown and staging areas, temporary fencing, and other security measures.*

2. ***Engineer's Field Office: Dimensioned floor plan, office systems, furnishings, and equipment.***
3. ***Temporary Fence: Layout drawings which indicate dimensions, access to fire hydrants, gate locations and opening sizes, and other site specific requirements.***
4. ***Project Sign: Layout, graphics, and wording.***

B. ***Submittals shall be received by the Engineer no later than the date of the Preconstruction Meeting.***

1.04 ***QUALITY ASSURANCE***

- A. ***Temporary facilities shall comply with all applicable state and local ordinances, codes and regulations.***
- B. ***Coordinate with authorities having jurisdiction to inspect (and test if required) temporary facilities.***
- C. ***Obtain all required permits for temporary facilities.***

1.05 ***DEFINITIONS***

- A. ***Duration of the project: The period of time from the date of the Notice to Proceed to the date of Final Completion, inclusive.***

PART 2 ***PRODUCTS***

2.01 ***MATERIALS***

- A. ***Temporary Fence: Fabric shall be No. 9 gauge galvanized wire woven in 2-inch diamond mesh with top and bottom twisted selvage. Intermediate and terminal posts shall be galvanized steel H or pipe, minimum 2-3/8-inch OD line posts, 2-7/8-inch OD corner and pull posts, and 1-5/8-inch OD top rails.***
- B. ***Project Sign: Plywood shall be A-A EXT-APA grade, 1-inch thick. Posts and braces shall be pressure treated lumber.***

2.02 ***EQUIPMENT***

- A. ***Fire Extinguishers: Provide portable, UL-rated with class and extinguishing agent required by locations and classes of fire exposure. Provide at least two for each trailer/office.***
- B. ***Temporary Heat: Provide vented, self-contained, liquid propane gas or fuel oil heaters with individual space thermostatic control. Equipment shall be listed and labeled for type of fuel consumed and marked for intended use.***

2.03 ***ENGINEER'S FIELD OFFICE***

- A. ***Provide minimum 12-feet by 50-feet office trailer for the Engineer's exclusive use for the duration of the project. Field office trailer shall have at least one office, one conference***

room, one bathroom, one closet, and two exterior doors. Alternatively, provide a separate building office space divided into three rooms and a lavatory.

- B. *Provide separate toilet facilities for the exclusive use of the Engineer. The lavatory door shall be equipped with a lock. The bathroom shall include toilet, sink and faucet, and faucet, medicine cabinet with mirror, paper towel holder, light fixture, five-gallon capacity water heater, exhaust fan and vent.*
- C. *The conference room shall include built-in plan table.*
- D. *The engineer's field office shall be weather-tight construction with floor, walls, and ceiling completely insulated. Ceilings shall be 8-feet high with acoustical tile. Interior walls shall be 3/8-inch architectural wooden panels. All floors shall be covered with industrial grade vinyl composition tile. Each room shall have a door. Each room shall have at least one operating window. Each window shall have a venetian blind and full insect screen. All windows shall be Thermo pane glazed. Provide fully insulated skirting on all sides of the field office trailer. Provide steps, platforms, handrails, and boot scrapers for each exterior door.*
- E. *The trailer shall be provided with two exterior doors provided with Medeco lock systems (or equal), keyed alike. The Engineer shall be provided with four keys for all exterior doors. At each entrance, a wooden stairway with railing and 6-foot by 6-foot platform shall be provided. Each platform shall be provided with one McMaster-Carr Model 6255T14 Shoe and Boot Scraper securely mounted to the platform.*
- F. *Field office trailer shall be Mobile Mini, ModSpace, Williams Scotsman, or equal. Converted storage or box containers will not be acceptable.*
- G. *Furnishings*
 - 1. *Contractor shall provide the following furnishings for the Engineer's temporary field office for the duration of the project. All furnishings shall be new – or in very good condition – subject to approval of the Engineer.*
 - a. *Four 60-inch by 30-inch desks with file drawer and 5 drawers, all lockable with upholstered swivel type chair with arms for each desk.*
 - b. *One 30-inch by 84-inch conference table*
 - c. *Eight armless side chairs (stacking type)*
 - d. *Two 54-inch by 30-inch folding tables*
 - e. *Six file cabinet, 4 drawer, legal size, Hon No. HN-315C, or equal*
 - f. *Four wastebaskets*
 - g. *One rolling plan storage rack, 10-stick capacity*
 - h. *One plan table/drafting table and elevated drafting chair with light*
 - i. *One lockable storage cabinet, 72-inch high, 36-inch wide, and 18-inch deep*
 - j. *Two steel bookcase units, 4 shelves high, Hon No. HN-S48 ABC, or equal*
 - k. *One digital telephone answering machine*
 - l. *24 painted steel coat hangers*
 - m. *One electric bottled water dispenser with hot and cold outlets and refrigerator unit. Adequate water bottles shall be provided (and paid for by the Contractor) until Final Completion*
 - n. *One wall-mounted first aid kit, McMaster-Carr 9501T1 or equal*
 - o. *Two smoke detectors, with batteries*

- p. *Two dry erase boards, aluminum frame, 36-inch by 60-inch, markers and eraser, Quartet Model No. TS-S 535 or equal*
- q. *One 1000-watt minimum 1.4-cubic-foot microwave oven*
- r. *One 6-cubic-foot refrigerator*
- s. *Commercial duty cross-cut shredder with basket, designed for 3 to 5 users, Fellowes Powershred SB-125i, or equal*
- t. *One first aid kit, OSHA (1910.151.b) and ANSI (Z308.1-2003) compliant, suitable for ten people.*
- u. *One coffeemaker Keurig K45 Elite Brewing System with K-cups for the duration of the project (at least two types of K-cups) with an estimated usage rate of 2 boxes of each type of K-cups per week, as well as creamers, sugar, and non-sugar sweeteners.*

H. *Equipment*

1. *Contractor shall provide the following equipment for the Engineer's temporary field office for the duration of the project. All equipment shall be new.*
 - a. *A multifunction photocopier, printer, facsimile and scanner with 50 sheet auto-feeder, capable of copying and printing letter-sized, legal-sized and 11x17-inch documents in both color and black and white.*
 - b. *Contractor to provide paper and ink cartridges, as required, for the duration of the project.*
2. *Answering machine with digital recorder.*
3. *Digital Camera: provide one new digital camera for the Engineer's use for the project duration. Camera shall be a major brand name (e.g., Minolta, Cannon, Olympic, Pentax, etc. – subject to the Engineer's approval) and shall have an automatic date function, 16 Megapixel or greater, 12x optical/4x digital zoom or better, and at least one GB of memory (on board or supplemental memory card). Contractor shall also provide 2-64 GB memory cards, Class 10 or greater, by SanDisk or approved equal. The camera shall come complete with carrying case, memory storage card, rechargeable batteries, battery charger, flash memory reader, USB cables and all necessary software for download to the site computers. After completion of project the camera will become the property of the Owner.*
4. *Four 8-outlet surge protectors with six foot cord and minimum 1800-joule energy rating or greater; as manufactured by Belkin, or equal.*
5. *Computer System with Printers*
 - a. *Provide computer systems with printers as specified. All computer and related items are to be new. All programs and peripherals to be properly and fully loaded, connected, and operational (to become property of Owner):*
 - 1) *Two IBM/PC compatible laptop by Dell or approved equal as follows (minimum requirements):*
 - a) *I7-3820QM Processor*
 - b) *16 GB RAM*
 - c) *NVIDIA Quadro K3100M graphics*
 - d) *256 GB SSD hard drive*
 - e) *Bluetooth*
 - f) *17.3 FHD 1920X1080 screen*

- g) *16x DVD +/- RW*
 - h) *Camera*
 - i) *Intel6300 wireless*
 - j) *Vpro*
 - k) *Wireless keyboard/Bluetooth*
 - l) *Wireless mouse w/ wheel and Bluetooth*
 - 2) *Provide a protective carrying case for each computer.*
 - 3) *Two 22-inch VGA color display monitor, auxiliary keyboard, and docking station (one for each new computer)*
 - 4) *Two Microsoft® Windows 7 (Windows 8 is not an approved equal) (one for each new computer)*
 - 5) *Two McAfee Anti-Virus latest edition (one for each new computer)*
 - 6) *Two 4-Terabyte external hard drive by MyBook or equal (USB 3.0)*
 - 7) *Two Microsoft® Office 2013 Professional Edition™, latest version (one for each new computer)*
 - 8) *One Printer: Hewlett Packard color laser printer (Pro MFP M476dw) or equal. Include black and color ink cartridges.*
 - 9) *Three 5-Plug power directors*
 - 10) *8 surge protectors.*
 - 11) *All cables necessary for the docking stations, monitors, keyboards, printers, telephones, network, connection of four computers to printer and any other external devices and all services to provide an interconnected office computer system.*
6. *Tablets (to be turned over to Owner) with both Wi-Fi and cellular service capabilities to match Owner's current cellular service provider:*
- a. *Three iPad Air 2, 64-GB (to be turned over to the Owner).*
 - b. *Three iPad mini 3, 64-GB (to be turned over to the Owner).*
 - c. *Color of tablets to be selected by the Owner. Coordinate these requirements with the Owner prior to purchase.*
7. *Allowance for Miscellaneous Audio/Visual Equipment*
- a. *Contractor shall include \$40,000 in their bid price for Miscellaneous Work and Cleanup specifically for furnishing Owner required audio/visual equipment.*
- I. *Services*
- 1. *Provide the following services for the duration of the project. Services shall include all costs for installation, use, maintenance, and removal of all products, services and equipment billed by each provider for each service specified herein.*
 - 2. *Field office shall have complete and fully functional electrical, plumbing, and HVAC systems. Provide at least two smoke detectors hard-wired into the electrical system. Perform all scheduled and unscheduled maintenance for all systems and as directed by the Engineer.*
 - 3. *Weather protection: Contractor shall furnish, install and maintain temporary heat and enclosures to provide adequate working areas for personnel during the cold weather months. The Contractor shall furnish temporary heating units (UL or FM listed) to maintain reasonable temperatures within temporary enclosures.*

4. ***Electrical System: Provide connection to temporary electric service. Comply with the electrical requirements of the furnished office trailer. Provide main circuit panel, sufficient GFCI outlets and lighting in each room, exterior lights at each exterior door, and proper grounding of entire electrical system. Installation shall include entrance connectors, grounding, enclosed fused service switches and branch circuit fuse boxes. Separate circuits shall be provided for lighting and other electrically operated items. Separate circuits shall be provided for the water heater, the photocopier and three separate circuits for computers. Minimum circuit size shall be two-conductor No. 12 AWG. Use heavier conductors where required. The entire electrical system and trailer shall be properly grounded.***
 - a. ***Contractor shall furnish temporary light and power, including 220 Volt service for welding, complete with wiring, lamps and similar equipment as required to adequately light all work areas and with sufficient power capacity to meet the project needs. Make all necessary arrangements with the local electric company for temporary electric service and pay all expenses in connection therewith.***
 - b. ***Provide connections to existing facilities sized to provide service required for power and lighting. Contractor shall pay the costs of power used.***
 - c. ***Provide properly configured NEMA polarized outlets to prevent insertion of 110-120 Volt plugs into higher voltage outlets. For connection of power tools and equipment, provide outlets equipped with ground-fault circuit interrupters, reset button and pilot light.***
 - d. ***Provide grounded extension cords. Use heavy duty cords where exposed to abrasion and traffic. Provide waterproof connectors to connect separate lengths of electric cords if more than one length is required.***
 - e. ***Provide general service incandescent lamps as required for adequate illumination. Provide guard cages or tempered glass enclosures where exposed to breakage. Provide exterior fixtures where exposed to moisture.***
5. ***Plumbing system: Connect to existing potable water supply. Provide hot water heater and hot and cold water to each fixture. A shutoff valve shall be installed at each fixture or appliance. All fixtures shall be approved house type and shall be vented and trapped. Connect waste pipes to existing sanitary system or a waste holding tank. All wastes shall be connected into one 4-inch line which shall be run into the existing sanitary system or waste holding tank(s). Heat trace and insulate exterior piping to prevent freezing. Where potable water service is not available, Contractor shall provide bottle water service with water chiller/dispenser. All plumbing and fixtures shall be in accordance with local laws and codes.***
6. ***Lighting and outlets: Lighting shall be provided by fluorescent ceiling fixtures furnishing 20 foot-candles at desk height, uniform throughout. Each room shall be provided with a wall switch for ceiling fixtures. Each area shall be provided with two duplex convenience outlets. These outlets are in addition to the circuits provided for the appliances specified herein.***
7. ***HVAC System: Provide central heating and air conditioning system with programmable thermostat. System shall be capable of maintaining an interior temperature of 70°F when the exterior temperature is 0°F and an interior temperature of 75°F when the exterior temperature is 100°F. The system shall be thermostatically controlled with a thermostat located on an interior partition, the exact location of which to be approved by the Engineer.***

8. **Temporary Air, Steam and Water:** Provide all air, steam and water, including temporary piping and appurtenances required for cleaning and testing pipelines and equipment as required. Remove temporary piping and appurtenances upon approval of equipment being tested.
 9. **Bottled water service:** Provide bottled water service complete with dispenser with hot and cold water taps and regular bottle and cup replenishment as directed by the Engineer.
 10. **Janitorial service:** Provide janitorial services (at least weekly) that include dusting, sweeping, vacuuming, mopping, disinfection, and trash removal.
 11. **Sanitary service:** Provide self-contained, single-occupant toilet units of the chemical, aerated recirculation, or combustion type, properly vented and fully enclosed in a fiberglass or other approved non-absorbent shell. Provide regular pumping of waste holding tank, if applicable, as needed.
 12. **Communications**
 - a. **Install two telephone lines in the Engineer's field office for the Engineer's exclusive use:**
 - 1) one voice grade line with caller ID and call-waiting features
 - 2) a second line for a dedicated fax line.
 13. **Internet Access**
 - a. Provide a high-speed Cable, DSL data line or T1 cable line with internet access for the duration of the project.
 - b. Provide high speed internet access in the Engineer's Field Office for the Engineer's exclusive use. High speed internet access at minimum shall be capable of 5 mbps upload and 25 mbps download speeds. High speed internet access for Engineer's use shall be Cable, DSL, or T-1 type Service.
 - c. Provide wireless internet capabilities within Engineer's field office.
 14. **Pay all costs for installation, maintenance, and removal of the telephone and internet service and instruments, including cellular phone service. The monthly cost of all calls made and received by the Engineer, including toll and long distance calls, shall be paid for by the Contractor for the duration of the project.**
- J. **Supplies:** Provide the following supplies for the duration of the project: copy paper, toner, toilet paper, paper towels, soap, light bulbs, coffee, and other consumables as required by the Engineer.

PART 3 EXECUTION

3.01 ENGINEER'S OFFICE

- A. **Engineer's trailer shall be set up and ready for occupancy within 30 days of the Notice to Proceed and prior to commencement of Work at the site. All systems, furnishings, equipment, and services specified herein shall be furnished, installed, and completely operational for the field office to be considered established.**
 1. **Provide regular office cleaning services for the duration of the project.**

2. *Provide supplies including, but not limited to restroom supplies (toilet tissue paper, paper towel, and soap), as well as light bulbs, air conditioner filters, water, coffee, etc.*
3. *Provide office supplies for printers and fax machines, etc.*
4. *Supply all fuel for heating and pay all utility bills.*

B. *Install field office plumb and level.*

C. *Engineer's trailer shall be removed and the site shall be cleaned up and restored before Final Completion of the project.*

3.02 **CONTRACTOR'S FIELD OFFICE**

A. *Provide a temporary field office(s) for the Contractor's use for the duration of the project. An authorized representative of the Contractor shall be present at all times while the Work is in progress. Instructions received at the Contractor's field office from the Engineer shall be considered delivered to the Contractor.*

B. *Locate field office(s) in accordance with approved shop drawings and as directed by the Owner.*

C. *Establish and occupy field office within 30 days of the Notice to Proceed, unless otherwise approved by the Engineer or Owner.*

3.03 **TEMPORARY POWER AND LIGHT**

A. *The Contractor shall furnish temporary light and power, including 220 Volt service for welding, complete with wiring, lamps and similar equipment as required to adequately light all work areas and with sufficient power capacity to meet the project needs. Make all necessary arrangements with the local electric company for temporary electric service and pay all expenses in connection therewith.*

B. *Provide connections to existing facilities sized to provide service required for power and lighting. Contractor shall pay the costs of power used.*

C. *Provide properly configured NEMA polarized outlets to prevent insertion of 110-120 Volt plugs into higher voltage outlets. For connection of power tools and equipment, provide outlets equipped with ground-fault circuit interrupters, reset button and pilot light.*

D. *Provide grounded extension cords. Use heavy duty cords where exposed to abrasion and traffic. Provide waterproof connectors to connect separate lengths of electric cords if more than one length is required.*

E. *Provide general service incandescent lamps as required for adequate illumination. Provide guard cages or tempered glass enclosures where exposed to breakage. Provide exterior fixtures where exposed to moisture.*

3.04 **TEMPORARY HEAT**

- A. *Provide heat as may be necessary for thawing out and heating the ground or materials and for proper execution, protection and drying-out of the Work.*

3.05 **WEATHER PROTECTION**

- A. *Contractor shall furnish, install and maintain temporary heat and enclosures to provide adequate working areas for personnel during the cold weather months.*
- B. *The Contractor shall furnish temporary heating units (UL or FM listed) to maintain reasonable temperatures within temporary enclosures.*
- C. *Weather protection shall comply with M.G.L. Chapter 149 Section 44G.*

3.06 **TEMPORARY AIR, STEAM AND WATER**

- A. *Provide all air, steam and water, including temporary piping and appurtenances required for cleaning and testing pipelines and equipment. Remove temporary piping and appurtenances upon approval of equipment being tested.*

3.07 **SANITARY FACILITIES**

- A. *Provide self-contained, single occupant toilet units of the chemical, aerated recirculation, or combustion type, properly vented and fully enclosed in a fiberglass or other approved non-absorbent shell.*

3.08 **CONSTRUCTION AIDS**

- A. *Provide temporary elevators, hoists, cranes, scaffolding and platforms as necessary to perform the Work. Provide temporary stairs where ladders are not adequate. Protect permanent stairs from damage from construction operations.*

3.09 **VEHICLE ACCESS AND PARKING**

- A. *Provide temporary access roads, parking areas, traffic control devices and staging areas as approved by the Engineer and Owner.*
- B. *Provide minimum 12-feet by 24-feet by 6-inch deep dense graded crushed stone or paved parking area adjacent to Engineer's field office for exclusive use by the Engineer for the duration of the project.*
- C. *Clear snow and ice from all drives, walks, and stairs to maintain safe vehicle and pedestrian access to the site and facilities as directed by the Engineer.*

3.10 **TEMPORARY FENCE**

- A. *Provide temporary fence as shown on the Drawings, as specified herein, and as the Contractor requires for site security.*

1. *Provide 6-foot high chain link fence with at least two vehicle and two pedestrian access gates. Gates shall be equipped with locking hardware and padlocks. Furnish two sets of keys to Engineer and Owner. Coordinate with local first responders for access during non-work hours.*
2. *Fence installation shall comply with ASTM F567. Post spacing shall not exceed 8-feet on center. Posts shall be set plumb in concrete footings.*
3. *Perform daily inspections of fence and immediately repair or replace damaged or compromised sections and as directed by the Engineer.*

3.11 **WASTE MANAGEMENT**

- A. *Provide covered dumpster, minimum 4-cubic yards, dedicated for field office waste. Provide separate covered dumpster of adequate size for construction debris. Empty dumpsters on a regular basis and as directed by the Engineer. Dumpsters shall not exceed their capacities at any time.*

3.12 **PROJECT SIGNS**

- A. *Furnish and install the project signs indicated in the Contract Documents. Signs shall be placed as directed by the Engineer; and, shall remain maintained in good condition for the life of the construction period.*
- B. *Remove signs at final acceptance, unless otherwise directed.*

3.13 **REMOVAL AND RESTORATION**

- A. *Remove each temporary facility complete when need for its service has ended and as approved by the Engineer. Coordinate removal of temporary facilities with authorities having jurisdiction.*
- B. *Restore all improvements damaged by the installation, operation, and removal of the temporary facilities. Obtain prior approval from Owner and Engineer for restoration work. Comply with the restoration requirements of Section 01046.*

END OF SECTION

SECTION 02666
TEMPORARY SERVICES

PART 1 GENERAL

1.01 SCOPE OF WORK

- A. Furnish all labor, materials, equipment and incidentals required and install and remove bypass and temporary service pipe and fire hydrants of the sizes required to provide adequate service to all water consumers whose service will be interrupted by new water main installation and to fulfill fire service requirements. Existing fire hydrants connected to pipe being replaced and serving as temporary fire hydrants shall be connected to the temporary pipe at locations directed by the Engineer.
- B. Where the existing 36-inch water transmission mains are in parallel with one another, one transmission main will always be in service and the in-service main can be tapped to provide a supply to temporary bypass piping systems. Hydrants on the parallel in-service 36-inch transmission main can also be used to supply temporary bypass piping.
- C. Furnish all labor, materials, equipment, and incidentals required for providing tap holes for temporary service by as required by the Engineer/Owner. The work to be done, without limiting the generality thereof, shall be as follows:
 - 1. Excavate all tap holes as required.
 - 2. Provide at no additional cost, sheeting and bracing, and decking as required.
 - 3. Make taps in existing water mains of the necessary size required as approved by the Engineer.
 - 4. Install tapping sleeve and valve at existing main.
 - 5. Backfill all tap holes as required.
 - 6. Restore the excavated surface.
- D. The Contractor shall notify the Owner and all respective Fire Department(s) of all existing hydrants taken out of service. The Contractor shall cover all out-of-service hydrants with bags clearly labeled “Not In Service” or “Out Of Service”.
- E. The Contractor is responsible for ensuring that all temporary hydrants are compatible with equipment used by the Owner’s Fire Department and any other affected Fire Departments in where hydrants are taken out of service.
- F. The Contractor shall provide temporary water service to one and two family residences and to other water customers with small diameter services currently connected to mains to be shut off, in order to facilitate the work, by means of temporary hose connections. All hoses shall be 1-inch minimum diameter and shall be capable of withstanding at least 1.5 times the normal working pressure. All hoses that are to supply potable water to buildings are to be NSF 61 and/or FDA approved for contact with drinking water. These temporary service connections shall be made to sill stops outside the buildings or to temporary connections at the meter inside

the buildings, as may be required or directed. All temporary piping and service connections to be installed shall be included in the respective bid prices included on the Bid Form. Payment for temporary services shall be included in the prices for furnishing and installing the various sizes of temporary pipe.

- G. In cases where access to the building water meter is not possible or where temporary service connection using hoses would not provide adequate supply capacity a temporary service connection shall be made to the existing service pipe in the street between the shutoff valve at the main and the property line, or in the sidewalk area between the shutoff valve and the service shut off valves inside the building. Payment for temporary service connections shall be included in the unit Bid Price for furnishing and installing the various sizes of temporary pipe.
- H. The work of relocating existing service and of furnishing and installing temporary service pipe, temporary customer services and other branches, maintaining the same, providing suitable safety precautions and removal of the temporary service pipe system shall be the sole responsibility and expense of the Contractor.
- I. Temporary services shall not be used between November 1st and April 15th in order to prevent freezing.
- J. The Contractor shall submit to the Engineer a daily log of all building/house addresses where temporary service connections have been installed and removed. These forms are included at the end of this section. Payment for temporary service connections and submittal of these daily logs shall be included in the unit Bid Price for furnishing and installing the various sizes of temporary pipe. No payment will be made for furnishing and installing the various sizes of temporary pipe until the Contractor has submitted all daily logs of buildings/houses transferred to and removed from temporary service pipe.
- K. ***Size requirements for temporary bypass piping and temporary bypass piping water supply layouts shall be as follows:***
 - 1. ***The minimum size of temporary bypass piping shall be 2-inches.***
 - 2. ***The minimum size of temporary bypass piping that supplies temporary fire hydrants shall be 4-inches (6-inches for areas/streets where existing hydrants are supplied directly by the existing 30-/36-inch water transmission mains).***
 - 3. ***Contractor shall make 6-inch temporary taps into existing water mains, if required, to facilitate supply to the temporary bypass piping layout.***
 - 4. ***Temporary hydrants shall be attached to temporary bypass piping that is at least 4-inches in size. If 4-inch temporary bypass piping is not looped and is supplied at one end only, the length shall not exceed 400 feet. For 4-inch temporary bypass piping that is looped and supplied at both ends, the length shall not exceed 1,200 feet. Temporary bypass piping that is 6-inches in size shall be used when the bypass piping lengths exceed 400 feet if bypass piping is supplied at one end only or when lengths exceed 1,200 feet when bypass piping is supplied at both ends.***
 - 5. ***All areas/streets where the existing 30-/36-inch transmission mains are located that have service connections and hydrants supplied directly by the existing 30-/36-inch water transmission mains shall be supplied as follows:***

- a. *Hydrants shall be connected to temporary bypass piping that is minimum 6-inches in diameter for these areas. Where the 36-inch transmission mains are in parallel, existing hydrants are located on both 36-inch transmission mains and therefore these areas/streets will require 6-inch temporary bypass piping on both sides of streets. After the 36-inch transmission mains split downstream of Valve Work Area No. 3, 6-inch temporary bypass piping shall be used on one side of the street to supply all fire hydrants and if bypass piping is needed on the opposite side of the street to supply additional service connections, it shall be minimum 4-inches (unless hydrants are located on both sides of the street, in which case 6-inch bypass piping shall be used on both sides of the street).*
 - b. *The requirements of Paragraph 1.01.K.4 herein shall also apply when determining bypass piping sizes.*
6. *Side line/side street water mains that are connected to and supplied by the 30-/36-inch water transmission mains shall be supplied as follows:*
- a. *Temporary bypass piping installed on the side of the street that supplies existing hydrants shall be minimum 4-inches. Hydrants shall be connected to temporary bypass piping that is minimum 4-inches in diameter for these areas/streets.*
 - b. *If bypass piping is needed to supply service connections on the side of the street opposite existing hydrants, it shall be minimum 2-inches in diameter.*
 - c. *The requirements of Paragraph 1.01.K.4 herein shall also apply when determining bypass piping sizes.*
7. *Contractor shall review Owner records to determine all water service locations and sizes that need to be supplied by temporary bypass piping. Contractor shall anticipate needing to provide temporary water supply to at least (not all continuously at one time – these are approximate totals for the entire project):*
- a. *A minimum of 2,200 domestic service connections to houses/buildings.*
 - b. *A minimum of five 4-inch fire service connections.*
 - c. *A minimum of five 6-inch fire service connections.*
 - d. *A minimum of ten 8-inch fire service connections.*
 - e. *A minimum of two 10-inch fire service connections.*
 - f. *A minimum of 220 existing fire hydrants on water mains taken out of service. Contractor shall consult with the Owner to confirm locations of all affected water mains, hydrants and service connections within anticipated shut down limits.*
- L. *Construction sequence and special work requirements are included in Section 01014.*
- M. *Contractor shall submit, in accordance with Section 01300:*
1. *Plans for temporary bypass piping.*
 2. *Proposed temporary bypass piping layouts to maintain water supply to all water customers affected by water mains to be shut down for each and every work area and proposed.*
 3. *Materials to be used for temporary bypass water supply shall be submitted for Engineer's review and approval.*

4. ***Engineer and Owner reserve the right to review Contractor's proposed temporary bypass water supply plans and layouts. The safety and integrity of the water system is of prime importance.***

N. ***If after installation of temporary bypass piping there are problems with water supply to any areas, Contractor shall make necessary changes to temporary bypass piping layouts as directed by Engineer. The safety and integrity of the water supply system is of prime importance.***

1.02 RELATED WORK

A. Excavation and backfill is included under Section 02221.

1.03 REFERENCE STANDARDS

A. American Water Works Association (AWWA)

1. AWWA C651 - Disinfecting Water Mains.

B. National Sanitation Foundation (NSF)

1. NSF 61 – Drinking Water System Components Health Effects.

C. Where reference is made to the above standards, the revision in effect at the time of bid opening shall apply.

PART 2 PRODUCTS

2.01 TEMPORARY SERVICE PIPE

A. Taps for temporary service pipe - six inch tap with tapping sleeve and valve. Furnish and install 6-inch blind flange when tap is abandoned.

B. The temporary service pipe, connections and branches shall be of the highest quality and shall be fully adequate to withstand the pressures and all conditions of use. Contractor shall provide wye connections at all customer sill cocks so customer has access to water supply for outdoor watering. All hoses shall be minimum 1-inch diameter and shall be capable of withstanding at least 1.5 times the normal working pressure. All hoses that are to supply potable water to buildings shall be NSF 61 approved for contact with drinking water.

PART 3 EXECUTION

3.01 INSTALLATION

A. Temporary service pipe shall not be installed without the prior approval of the Engineer.

B. The Contractor shall submit a plan for the proposed layout of the temporary service pipe and connections to the existing distribution system for the Engineer's approval. This plan shall be drawn on a clean set of project drawings or Owner' water distribution system drawings and the temporary service pipe layout shall be consistent with the Contractor's proposed sequence of

operations. Proposed changes in the layout of temporary service piping that the Contractor wishes to make, as the work proceeds, shall also be submitted for the Engineer's approval.

- C. Make the required taps using approved methods as directed by the Engineer.
- D. Wet tap connections (6-inch) will be installed for temporary water supply to users where interruption to water is deemed impossible. Contractor shall furnish all labor, material, equipment and incidentals required to install the connection. Wet tap connections will be made only at the discretion of the Engineer. Contractor shall disinfect tapping sleeve, valve and piping prior to installation as specified herein.
- E. Generally, temporary service pipe shall be laid in gutters; however in business areas the Contractor shall, if directed by the Engineer, lay temporary service pipe behind buildings. At driveways, pipe crossings shall be protected by cold patch cover or other approved method. At street intersections, the Contractor shall cut a straight line in the existing bituminous paving and lay the temporary service pipe in a shallow trench covered with temporary surfacing. At the Engineer's options, the Contractor may be allowed to use hose to come around bends or to cross driveways. Sanitary precautions shall be satisfactory to the Engineer and shall meet all requirements of the public health authorities having jurisdiction. The installation shall be watertight. Care shall be exercised throughout to avoid any possible pollution of mains, house services, or the temporary service pipe. The interior of temporary service pipe, temporary hoses and any other connection pipe to convey water for potable use shall be disinfected prior to its use in accordance with AWWA C651.
- F. All temporary pipe shall be suitably valved and meet the approval of the Engineer. A valve shall be provided at each hydrant connection and each tap hole connection. Valves shall be located no further than 500-feet apart when directed by the Engineer.
- G. Contractor at minimum shall provide a temporary fire hydrant for each existing fire hydrant connected to water mains taken out of service to facilitate new work.
- H. Whether it is being installed, in service, or being removed, the amount of temporary service pipe kept on the job shall be the minimum that will allow the work to continue at a reasonable rate. ***The Owner and Engineer reserve the right to review and approve the Contractor's proposed temporary bypass piping plan and layout for all work areas to verify that the proposed amount of existing system piping shut down and the amount of temporary bypass piping proposed for installation at any one time is in direct proportion to the required areas of existing water mains required to be shut down to facilitate the installation of new work. The safety and integrity of the water system is of prime importance.***

END OF SECTION

SECTION 02901
MISCELLANEOUS WORK AND CLEANUP

PART 1 GENERAL

1.01 SCOPE OF WORK

- A. Furnish all labor, materials, equipment and incidentals required and perform the miscellaneous work not specified in other Sections but obviously necessary for the proper completion of the work as shown on the Drawings.
- B. When applicable, perform the work in accordance with other related Sections. When no applicable specification exists, perform the work in accordance with the best modern practice and/or as directed by the Engineer.
- C. The work of this Section includes, but is not limited to, the following:
 - 1. Job photographs
 - 2. Temporary facilities
 - 3. Staked haybales, silt fences and catch basin drop inlet sediment filters
 - 4. Coordination of policing *with Owner*
 - 5. Coordination with other contractors and connection to work by others
 - 6. Crossing and relocating existing utilities
 - 7. Repair of existing utilities damaged during construction
 - 8. Restoration and replacement of driveways, sidewalks, fences and curbing
 - 9. Protection and/or removal and reinstallation of signs, lampposts and mailboxes
 - 10. Protection and bracing of utility poles
 - 11. Restoring easements and Right-Of-Ways
 - 12. Loaming and seeding
 - 13. Cleaning up
 - 14. ***Welding of manhole and valve covers for existing, inoperable transmission main valves***
 - 15. Incidental work

1.02 SUBMITTALS

- A. Submit, in accordance with Article 2.05B of the General Conditions, a breakdown of the lump sum for the above items.

1.03 PHOTOGRAPHS OF PROJECT

- A. Provide photographs of the project areas as specified in Section 01322.

1.04 TEMPORARY FACILITIES

- A. Furnish, install, maintain and remove all temporary facilities required for construction as specified in Section 01500.

1.05 STAKED HAYBALES, SILT FENCES AND DROP INLET SEDIMENT FILTERS

- A. The Contractor shall be responsible for furnishing and installing staked haybales, silt fences and catch basin drop inlet sediment filters for construction near wetlands and in environmentally sensitive areas as directed by the Engineer.

1.06 COORDINATION OF POLICING *WITH OWNER*

- A. *The Contractor shall be responsible for coordinating with the Owner all requirements for proper policing manpower. The Contractor shall coordinate all policing with the Owner. Any costs incurred by the Contractor for coordination for policing shall be reimbursed under the Miscellaneous Work and Cleanup item. All invoices for policing will be made to the Owner and the Owner shall pay expenses incurred, including the salaries of the assigned police personnel.*

1.07 COORDINATION WITH OTHER CONTRACTORS AND CONNECTION TO WORK BY OTHERS

- A. At some locations, construction on other contracts may be carried on during the same period as construction under this Contract. It will be necessary for the Contractor to plan his/her work and cooperate with the other Contractor insofar as connections required to each other's work and to prevent any interference and delay for which he/she shall receive no other compensation than that agreed upon for this Item.

1.08 CROSSING AND RELOCATING EXISTING UTILITIES

- A. Perform any extra work required in crossing culverts, water courses including brooks and drainage ditches, drains, gas mains, water mains and water services and other utilities. This work shall include: bracing, hand excavation, backfill (except screened gravel) and any other work required for crossing the utility or obstruction not included for payment in other items of the Bid Form. Notification of Utility Companies shall be as specified in Section 01046.
- B. In locations where existing utilities cannot be crossed without interfering with the construction of the work as shown on the Drawings, remove and relocate the utility as directed by the Engineer or cooperate with the Utility Companies concerned if they relocate their own utility. The Contractor will be responsible for coordinating any and all utility relocations with the respective Utility Company, whether or not these relocations are shown on the Drawings.
- C. At pipe crossings and where designated by the Engineer, furnish and place screened gravel bedding so that the existing utility or pipe is firmly supported for its entire exposed length. The bedding shall extend to the mid-diameter of the pipe crossed. Payment for screened gravel at pipe crossings will be made according to the unit price bid established in the Bid Form.

1.09 REPAIR OF EXISTING UTILITIES DAMAGED DURING CONSTRUCTION

- A. The Contractor shall assume full responsibility for the protection of all buildings, structures, utilities, public or private, including poles, signs, services to buildings, utilities in the street, gas pipes, water pipes, hydrants, sewers, drains, manholes, catch basins, electric ducts, cable ducts, and telephone ducts, whether or not they are shown on the Drawings. The Contractors shall carefully support and protect all structures and utilities from damage of any kind during construction. Any damage resulting from the Contractor's operations shall be repaired by him/her at his/her expense. Any costs incurred by the Contractor for repairing utilities or structures damaged during construction shall be reimbursed under the Miscellaneous Work and Cleanup item.
- B. ***Protection and/or Removal and Replacement of Traffic Signal Conduit, Wiring and Loop Detectors and City Fire Box Wiring that are damaged during construction:***
1. ***Existing traffic signal conduit, wiring and loop detectors and fire box wiring conduit and wiring that are damaged or removed during construction shall be reconstructed, restored in "like new" working condition, and approved by Owner and Engineer in the same location from which they were removed.***
 2. ***Temporary loop detectors shall be placed in temporary patching and as directed by the Engineer. Permanent loop detectors shall be placed in permanent trench patch areas, final binder course or as directed by the Engineer.***
 3. ***The Contractor shall test all replaced loop detectors following installation in accordance with the MHSSHB and IMSA testing procedures in the presence of the Engineer and submit a copy of the testing results to the City of New Bedford.***

1.10 RESTORING DRIVEWAYS, SIDEWALKS, CURBING AND FENCES

- A. Restoration, repair and replacement of existing driveways, sidewalks, curbing and fences shall be in accordance with Owner's Construction Specifications, latest edition, which is hereby incorporated by reference. It is the responsibility of the Contractor to obtain copies of Owner's Construction Specifications to fully comply with these requirements.
- B. Existing public and private driveways disturbed by construction shall be replaced. Paved drives shall be repaved to the limits and thicknesses existing prior to construction. Gravel dirt roads and drives shall be replaced and regraded in kind. Bituminous driveways shall be saw cut across the full width at the limits of construction prior to excavation, the entire width shall be excavated and re-constructed to match the limits and thickness existing prior to construction. Cement concrete driveways shall be saw cut across the full width at the nearest expansion or construction joint beyond the limits of construction prior to excavation, the entire width shall be excavated and re-constructed to match the limits and thickness existing prior to construction.
- C. Existing public and private sidewalks disturbed by the construction shall be replaced with sidewalks of equal quality and dimension. All concrete sidewalks shall be saw cut at the nearest expansion or construction joint across the entire sidewalk width and replaced. The entire concrete sidewalk panel shall be removed and replaced with a concrete sidewalk of equal quality and dimension. All bituminous sidewalks shall be saw cut at the limits of disturbance across the entire sidewalk width and replaced with a bituminous sidewalk of equal quality and dimension.

- D. Existing concrete, bituminous, timber or granite curbing shall be protected. If necessary, curbing shall be removed and replaced after backfilling. Curbing that is damaged during construction shall be replaced with curbing of equal quality and dimension at the Contractor's expense. Granite curbing removed and reset shall conform to Owner's Construction Specifications. Joints between sections shall be pointed as required after resetting. Bituminous berms shall conform to Owner's Construction Specifications.
- E. Fences in the vicinity of the work shall be protected from damage under this item. If damaged, fences shall be replaced in condition equal to that prior to being damaged and the work shall be satisfactory to the Engineer.
- F. ***Contractor shall fully replace sidewalks and curbing within the limits shown on the Drawings at the areas listed below in accordance with City of New Bedford Construction Specifications, latest edition, which are hereby incorporated by reference and available from the City of New Bedford Department of Public Infrastructure. New sidewalks shall also be in accordance with Massachusetts Department of Transportation specifications and details and American with Disabilities Acts (ADA) standards and requirements. Contractor shall provide the services of a registered Professional Engineer in the Commonwealth of Massachusetts to design new sidewalks within the limits shown on the Drawings to meet these requirements at the following locations:***
 - 1. ***Mount Pleasant Street at Nash Road***
 - 2. ***Ashley Boulevard at Tarkiln Hill Road***
 - 3. ***Ashley Boulevard at Park Avenue***
 - 4. ***Ashley Boulevard at Nash Road***
 - 5. ***Ashley Boulevard at Deane Street***

Curbing shall be replaced with curbing of at least equal quality and dimension at these locations to correspond with limits of pavement and sidewalk replacement. Owner will be utilizing different funding sources to replace the underground traffic signal conduits and traffic signals at these locations. Contractor shall coordinate all work with Owner to allow for the installation of all required traffic signal conduits and equipment (by others) to occur prior to Contractor's final paving and sidewalk and curbing replacement that are required under this project as part of Contractor's work.

- 1.11 PROTECTION AND/OR REMOVAL AND REINSTALLATION OF SIGNS, LAMPPOSTS AND MAILBOXES
 - A. Existing signs, lampposts and mailboxes which may be damaged or removed during the course of the work shall be reinstalled in a vertical position at the same location from which they were removed. Replace damaged items with items of equal or better quality than the damaged items. Provide a concrete anchor as necessary, to ensure a rigid alignment. Exercise care in the reinstallation of all items to prevent damage to the newly installed pipelines.

1.12 PROTECTION AND BRACING OF UTILITY POLES

- A. Make all arrangements with the proper utility companies for bracing and protection of all utility poles that may be damaged or endangered by the operations. Work under this item shall include that related to removal and reinstallation of guy wires, or support poles whether shown on the Drawings or not.

1.13 RESTORING EASEMENTS AND RIGHTS-OF-WAY

- A. Contractor is responsible for all damage to private property due to construction operations. Protect from injury all walls, fences, cultivated shrubbery and vegetables, fruit trees, pavement, underground facilities, such as water pipe, or other utilities that may be encountered along the easement. If removal and replacement are required, it shall be done in a workmanlike manner so that replacement is equivalent to that which existed prior to construction.
- B. Existing lawn and sod surfaces damaged by construction in easements shall be replaced. Cut and replace the lawn and sod, restore the areas with an equivalent depth and quality of loam, seeded and fertilized as specified in Section 02930. These areas shall be maintained and reseeded, if necessary, until all work under this Contract has been completed and accepted. Any additional work required to restore easements to their original condition shall be performed.
- C. Existing trees, shrubs, plants and bushes outside of easements shall be fully protected as specified in Section 01046. The work shall also include replacing those trees, shrubs and bushes that are damaged during construction with an item in kind to the satisfaction of the Engineer and Owner. Be fully responsible for ensuring that any and all trees, bushes and shrubs planted "take" and return to a viable state. Any planted item that fails to "take" or that is so damaged as to be unsuitable shall be replaced, at no additional cost to the Owner, with a tree, bush or shrub equal to the one removed.
- D. The Engineer will inspect all work for provisional acceptance upon the written request received at least 10 days before the anticipated date of inspection.
 - 1. After all necessary corrective work has been completed, the Engineer will certify in writing the provisional acceptance of the planting.
- E. All plants, shrubs and trees shall be guaranteed for not less than 1 full year from the time of provisional acceptance.
 - 1. At the end of this period, any plant that is missing, dead, or not in satisfactory growth, as determined by the Engineer, shall be replaced.
 - 2. All replacements shall be plants of the same kind and size. They shall be furnished and planted as specified herein. The cost of replacement shall be borne except where it can be definitely shown that loss resulted from vandalism or the Owner's failure to maintain planting as instructed.
 - 3. At the end of the guarantee period, inspection will be made by the Engineer upon written request submitted by the landscape contractor at least 10 days before the anticipated date.
 - 4. After all necessary corrective work has been completed and tree staking has been removed, the Engineer will certify in writing the final acceptance of the planting.

1.14 LOAMING AND SEEDING

- A. The Contractor shall be responsible for replacing all loamed and seeded areas that are disturbed during construction. Damaged areas shall be restored to conditions equal to or better than the original conditions. The Contractor shall be responsible for the condition of the restored area for a period of one year.

1.15 CLEANING UP

- A. Remove all construction material, excess excavation, buildings, equipment and other debris remaining on the job as a result of construction operations and restore the site of the work to a neat and orderly condition.

1.16 ***WELDING OF MANHOLE AND VALVE COVERS FOR EXISTING, INOPERABLE TRANSMISSION MAIN VALVES***

- A. ***At Engineer's direction during construction for selected existing, inoperable transmission main valves that are to remain and that are not being removed as part of this work, Contractor shall weld manhole and valve covers shut. Contractor shall be prepared to weld manhole and valve covers for up to 20 existing manhole and valve covers at locations as directed by the Engineer during construction.***

1.17 INCIDENTAL WORK

- A. Do all incidental work not otherwise specified, but obviously necessary to the proper completion of the work as shown on the Drawings and as specified herein.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Materials required for this Section shall be the same quality of materials that are to be restored or as otherwise specified. Where possible and only if approved by the Engineer, reuse existing materials that are removed. If materials are not specified herein, Contractor shall use materials as specified in Owner's Construction Standards, latest edition, which are hereby incorporated by reference.

PART 3 EXECUTION (NOT USED)

END OF SECTION

**BID FORM
TO
CITY OF NEW BEDFORD, MASSACHUSETTS
WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
PART II – 36-INCH TRANSMISSION MAINS
PROJECT NO. DWSRF-3870
BID NO. 15450041**

The undersigned declares that the only persons or parties interested in this Bid as principals are as stated; that the Bid is made without any collusion with other persons, firms, or corporations; that all the Contract Documents as prepared by CDM Smith, 260 West Exchange Street, Suite 300, Providence, Rhode Island 02903 and dated February 2015 have been carefully examined; that the undersigned is fully informed in regard to all conditions pertaining to the Work and the place where it is to be done, and from them the undersigned makes this Bid. These prices shall cover all expenses incurred in performing the Work required under the Contract Documents, of which this Bid Form is a part.

The time period for holding bids, where Federal approval is not required is 30 days, Saturdays, Sundays and legal holidays excluded, after the opening of bids and where Federal approved is required, the time period for holding bids is 30 days, Saturdays, Sundays and holidays excluded after Federal approval.

The Bid Security accompanying this Bid shall be in the amount of five percent of the Bid.

If a Notice of Award accompanied by at least six unsigned copies of the Agreement and all other applicable Contract Documents is delivered to the undersigned within thirty days, excluding Saturdays, Sundays, and legal holidays, after the actual date of the opening of the Bids, the undersigned will within five days, excluding Saturdays, Sundays, and legal holidays, after the date of receipt of such notification, execute and return all copies of the Agreement and all other applicable Contract Documents to Owner. The premiums for all Bonds required shall be paid by Contractor and shall be included in the Contract Price. The undersigned Bidder further agrees that the Bid Security accompanying this Bid shall become the property of Owner if the Bidder fails to execute the Agreement as stated above.

The Bid Security shall be sealed in a separate envelope from the Bid and then attached to the envelope containing the Bid.

The undersigned hereby agrees that the Contract Time shall commence twenty days following the Effective Date of the Agreement and to fully complete the Work within 730 Calendar Days and in accordance with the terms as stated in the Agreement. The undersigned further agrees to pay OWNER, as liquidated damages, \$2,500 per day for each calendar day beyond the Contract Time Limit or extension thereof that the Work remains incomplete, in accordance with the terms of the Agreement.

The undersigned acknowledges receipt of addenda numbered:

In accordance with the above understanding, the undersigned proposes to perform the Work, furnish all materials and complete the Work in its entirety in the manner and under the conditions required at the prices listed as follows:

**CITY OF NEW BEDFORD, MASSACHUSETTS
WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
PART II - 36-INCH TRANSMISSION MAINS
PROJECT NO. DWSRF-3870
BID NO. 15450041**

BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
1A	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 1	\$ _____	\$ _____
		Lump Sum		
1B	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 2	\$ _____	\$ _____
		Lump Sum		
1C	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 3	\$ _____	\$ _____
		Lump Sum		

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BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
1D	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 4	\$ _____	\$ _____
		Lump Sum		
1E	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 5	\$ _____	\$ _____
		Lump Sum		
1F	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 6	\$ _____	\$ _____
		Lump Sum		

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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
1G	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 7	\$ _____	\$ _____
		Lump Sum		
1H	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 8	\$ _____	\$ _____
		Lump Sum		
1I	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 9	\$ _____	\$ _____
		Lump Sum		

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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
1J	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 10	\$ _____	\$ _____
		Lump Sum		
1K	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 11	\$ _____	\$ _____
		Lump Sum		
1L	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 12	\$ _____	\$ _____
		Lump Sum		

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 BID NO. 15450041**

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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
1M	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 13	\$ _____	\$ _____
		Lump Sum		
1N	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 14	\$ _____	\$ _____
		Lump Sum		
1O	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 15	\$ _____	\$ _____
		Lump Sum		

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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
1P	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 16	\$ _____	\$ _____
		Lump Sum		
2	1 each	Furnish and install 36-inch line stops with concrete thrust blocks as shown on the Drawings and remove line stops at completion of construction	\$ _____	\$ _____
		each		
3A	2,200 linear feet	Furnish and install 16-inch, Class 52, cement-lined ductile-iron water pipe, including earth excavation and backfill	\$ _____	\$ _____
		per linear foot		
3B	120 linear feet	Furnish and install 12-inch, Class 52, cement-lined ductile-iron water pipe, including earth excavation and backfill	\$ _____	\$ _____
		per linear foot		

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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
3C	10 linear feet	Furnish and install 10-inch, Class 52, cement-lined ductile-iron water pipe, including earth excavation and backfill	\$ _____	\$ _____
		per linear foot		
3D	640 linear feet	Furnish and install 8-inch, Class 52, cement- lined ductile-iron water pipe, including earth excavation and backfill	\$ _____	\$ _____
		per linear foot		
3E	60 linear feet	Furnish and install 6-inch, Class 52, cement- lined ductile-iron water pipe, including earth excavation and backfill	\$ _____	\$ _____
		per linear foot		
3F	10 linear feet	Furnish and install 4-inch, Class 52, cement- lined ductile-iron water pipe, including earth excavation and backfill	\$ _____	\$ _____
		per linear foot		
3G	6,100 pounds	Furnish and install ductile-iron fittings	\$ _____	\$ _____
		per pound		

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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
3H	1 each	Furnish and install 12-inch couplings	\$ _____	\$ _____
		each		
3I	1 each	Furnish and install 10-inch couplings	\$ _____	\$ _____
		each		
3J	3 each	Furnish and install 8-inch couplings	\$ _____	\$ _____
		each		
3K	10 each	Furnish and install 6-inch couplings	\$ _____	\$ _____
		each		
3L	1 each	Furnish and install 4-inch couplings	\$ _____	\$ _____
		each		

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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
4A	15 each	Furnish and install 16-inch butterfly valves and boxes	\$ _____	\$ _____
		each		
4B	2 each	Furnish and install 12-inch gate valves and boxes	\$ _____	\$ _____
		each		
4C	12 each	Furnish and install 8-inch gate valves and boxes	\$ _____	\$ _____
		each		
4D	8 each	Furnish and install new fire hydrant assemblies including all associated fittings, connecting pipe, gate valves, thrust restraint and joint restraint as necessary	\$ _____	\$ _____
		each		
5A	20 each	Furnish and install-1 inch corporation stops	\$ _____	\$ _____
		each		

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5B	10 each	Furnish and install 2-inch corporation stops _____	\$ _____	\$ _____
		each		
5C	5 each	Furnish and install curb stops for 1-inch service connections including all required fittings _____	\$ _____	\$ _____
		each		
5D	5 each	Furnish and install curb stops for 2-inch service connections including all required fittings _____	\$ _____	\$ _____
		each		
5E	350 linear feet	Furnish and install 1-inch copper service tubing _____	\$ _____	\$ _____
		per linear foot		
5F	250 linear feet	Furnish and install 2-inch copper service tubing _____	\$ _____	\$ _____
		per linear foot		

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6A	84,000 linear feet	Furnish, install and remove 6-inch temporary service pipe including all service connections	\$ _____	\$ _____
		per linear foot	\$ _____	\$ _____
6B	89,000 linear feet	Furnish, install and remove 4-inch temporary service pipe including all service connections	\$ _____	\$ _____
		per linear foot	\$ _____	\$ _____
6C	80,000 linear feet	Furnish, install and remove 2-inch temporary service pipe including all service connections	\$ _____	\$ _____
		per linear foot	\$ _____	\$ _____
6D	220 each	Furnish, install and remove temporary hydrants	\$ _____	\$ _____
		each	\$ _____	\$ _____
6E	30 each	Furnish and install tap holes and backfill tap hole excavations for temporary service connections	\$ _____	\$ _____
		each	\$ _____	\$ _____

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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
6F	2 each	Furnish and install 12-inch insertion valves for shut down of existing water mains if inoperable side line valves are encountered	\$ _____	\$ _____
		each		
6G	1 each	Furnish and install 10-inch insertion valves for shut down of existing water mains if inoperable side line valves are encountered	\$ _____	\$ _____
		each		
6H	5 each	Furnish and install 8-inch insertion valves for shut down of existing water mains if inoperable side line valves are encountered	\$ _____	\$ _____
		each		
6I	5 each	Furnish and install 6-inch insertion valves for shut down of existing water mains if inoperable side line valves are encountered	\$ _____	\$ _____
		each		

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7A	150 cubic yards	Rock excavation _____	\$ _____	\$ _____
		per cubic yard		
7B	150 cubic yards	Boulder excavation _____	\$ _____	\$ _____
		per cubic yard		
7C	150 cubic yards	Excavating below normal grade including gravel refill _____	\$ _____	\$ _____
		per cubic yard		
8	50 linear feet	Remove and dispose of existing asbestos cement water main _____	\$ _____	\$ _____
		per linear foot		
9A	2,500 cubic yards	Gravel for pavement, driveway and sidewalk base and subbase _____	\$ _____	\$ _____
		per cubic yard		
9B	250 cubic yards	Screened gravel _____	\$ _____	\$ _____
		per cubic yard		

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9C	100 cubic yards	Controlled Density Fill (CDF)/Controlled Low Strength Material (CLSM)	\$ _____	\$ _____
		per cubic yard		
10	100 cubic yards	Miscellaneous concrete	\$ _____	\$ _____
		per cubic yard		
11A	5,000 square yards	Furnish and install initial trench-width pavement in City streets, which includes 3 inch thick hot mix asphalt bituminous binder course	\$ _____	\$ _____
		per square yard		
11B	5,000 square yards	Furnish and install permanent trench-width pavement in City streets, which includes 1-1/2 inch thick hot mix asphalt bituminous binder course and 1-1/2 inch thick hot mix asphalt bituminous top course	\$ _____	\$ _____
		per square yard		

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11C	7,000 square yards	Furnish and install permanent curb-to-curb pavement in City streets, which includes cold planing existing paving as specified and 1-1/2 inch thick hot mix asphalt bituminous top course overlay	\$ _____	\$ _____
		per square yard		
11D	150 each	Adjustment or realignment of curb and valve boxes	\$ _____	\$ _____
		each		
12	1 Lump Sum	Equipment for traffic management	\$ _____	\$ _____
		Lump Sum		
13	500 cubic yards	Test pits	\$ _____	\$ _____
		per cubic yard		
14	1 Lump Sum	Miscellaneous work and clean-up	\$ _____	\$ _____
		Lump Sum		

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<u>ITEM NO.</u>	<u>ESTIMATED QUANTITY</u>	<u>BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS</u>	<u>UNIT BID PRICE IN FIGURES</u>	<u>AMOUNT IN FIGURES</u>
15	1 Lump Sum	Mobilization (no more than 5% of the Base Bid Price)		
		Lump Sum	\$ _____	\$ _____

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SUBTOTAL PAGE 00300-2:	\$ _____
SUBTOTAL PAGE 00300-3:	\$ _____
SUBTOTAL PAGE 00300-4:	\$ _____
SUBTOTAL PAGE 00300-5:	\$ _____
SUBTOTAL PAGE 00300-6:	\$ _____
SUBTOTAL PAGE 00300-7:	\$ _____
SUBTOTAL PAGE 00300-8:	\$ _____
SUBTOTAL PAGE 00300-9:	\$ _____
SUBTOTAL PAGE 00300-10:	\$ _____
SUBTOTAL PAGE 00300-11:	\$ _____
SUBTOTAL PAGE 00300-12:	\$ _____
SUBTOTAL PAGE 00300-13:	\$ _____
SUBTOTAL PAGE 00300-14:	\$ _____
SUBTOTAL PAGE 00300-15:	\$ _____
SUBTOTAL PAGE 00300-16:	\$ _____
SUBTOTAL PAGE 00300-17:	\$ _____
TOTAL BID PRICE	\$ _____

The undersigned agrees that extra work, if any, will be performed in accordance with Article 10 of the Conditions of the Contract and will be paid for in accordance with Article 11 of the Conditions of the Contract.

The bidding and award of this Contract will be in accordance with M.G.L. Chapter 30, Section 39M.

The undersigned must furnish a 100 percent Performance Bond and a 100 percent Payment Bond with a surety company acceptable to Owner.

Amounts shall be shown in both words and figures, where indicated. In case of discrepancy, the amount shown in words will govern.

The above prices shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance and incidentals required to complete the Work.

The names and residences of all persons and parties interested in the foregoing Bid as principals are as follows:

(Give first and last names in full. In the case of a corporation, see Article 8.3 of the Instructions to Bidders, in the case of a limited liability company (LLC), see Article 8.4 of the Instructions to Bidders, in the case of a partnership, see Article 8.5 of the Instructions to Bidders.)

The attached Department of Environmental Protection Diesel Retrofit Program Form *and DBE Forms* must be completed and submitted as part of the Bid Proposal.

The City of New Bedford, Massachusetts Non-Collusion and Tax Compliance, Vote of Corporation Authorizing Execution of Corporate Agreements, OSHA Certification Requirement, Contractor Certification, Bidder Certificate of Understanding, Schedule of Participation Disadvantaged/Minority/Woman Business Enterprises, Letter of Intent from DBE/MBE/WBE, Minority/Woman Business Enterprise Program Contractor Identification Statement, Bidders Certification, Minority/Woman Business Enterprises Unavailability Certifications, and Minority/Woman Business Enterprises Request for Waiver forms must be completed and submitted as part of the Bid Proposal.

Pursuant to M.G.L. Ch. 62C, sec. 49A, I certify under the penalties of perjury that I, to my best knowledge and belief, have filed all state tax returns and paid all state taxes required under law.

The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee.

The undersigned bidder hereby certifies he/she will comply with the specific affirmative action steps contained in the Equal Employment Opportunity/Affirmative Action (EEO/AA) provisions of this Contract, including compliance with the Disadvantaged Business Enterprise provisions as required under these contract provisions. The Contractor receiving the award of the contract shall incorporate the EEO/AA provisions of this contract into all subcontracts and purchase orders so that such provisions will be binding upon each subcontractor or vendor.

Bidders must fully comply with Subpart C of 2 CFR Part 180 and 2 CFR Part 1532, entitled Responsibilities of Participants Regarding Transactions (Doing Business with Other Persons). Contractors, subcontractors, or suppliers that appear on the Excluded Parties List System at www.epls.gov are not eligible for award of any contracts funded by the Massachusetts State Revolving Fund.

The undersigned hereby certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this section, the word "person" shall mean any natural person, joint venture, partnership, corporation, limited liability company, or other business or legal entity. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of Section Twenty-nine F of Chapter Twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder; and is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.

Social Security Number
or Federal Identification
Number

Signature of Individual or
Corporate Name

By: _____
Corporate Officer (if applicable)

Notice of acceptance should be mailed, faxed, or delivered to the following:

(Name)

By: _____
(Title)

(Business Address)

(City and State)

Date: _____

If the Bidder is a corporation, indicate State of incorporation under signature, and affix corporate seal; if a partnership, give full names and residential addresses, if different from business address.

APPENDIX – B DIESEL RETROFIT PROGRAM

The Department of Environmental Protection (“DEP”) has developed the Diesel Retrofit Program in response to increasing public health concerns with the emissions from diesel engines and vehicles.

Diesel Construction Equipment Standard

All diesel powered non-road construction equipment and vehicles greater than 50 brake horsepower which will be used in the performance of the work under the Contract (hereinafter “Diesel Construction Equipment”) must have the following pollution control device installed unless exempt as provided below:

1. Emission control technology verified by U.S. Environmental Protection Agency (“EPA”) or the California Air Resources Board (“CARB”) for use with non-road engines;
2. Emission control technology verified by EPA or CARB for use with on-road engines provided that such equipment is operated with diesel fuel that has no more than 15 parts per million sulfur content (i.e. Ultra Low Sulfur Diesel fuel); or
3. Emission control technology certified by the manufacturer that such technology meets or exceeds the emission reductions provided by on-road or off-road emission control technology verified by EPA or CARB, i.e. that a Diesel Oxidation Catalyst is achieving the following minimum emission reductions: particulate matter 20%; carbon monoxide 40%; volatile organic compounds 50%; or a Diesel Particulate Filter is achieving a minimum of 85% emission reductions for particulate matter.

Emission control devices, such as oxidation catalysts or particulate filters, shall be installed on the exhaust system side of the Diesel Construction Equipment. The Contractor shall be responsible to insure that the emissions control technology is operated, maintained, and serviced as recommended by the manufacturer.

For the latest up-to-date list of EPA verified-technologies, see:

<http://www.epa.gov/otaq/retrofit/retroverifiedlist.htm>

For the latest up-to-date list of CARB verified technologies, see:

<http://www.arb.ca.gov/diesel/verdev/verifiedtechnologies/vt.htm>

Exemptions

The following Diesel Construction Equipment shall be exempt from the standard above. The Contractor shall include such Diesel Construction Equipment in the required recordkeeping:

1. Diesel Construction Equipment not owned by the Contractor and used in the performance of the work under this Contract for 30 calendar days (cumulative days but not necessarily consecutive) or less;
2. Unless otherwise exempt, additional Diesel Construction Equipment originally not anticipated to be used under the Contract or used as permanent replacement after the work under the Contract has commenced, for 15 calendar days from the date such Diesel Construction Equipment is brought on site;

**APPENDIX – B (cont.)
DIESEL RETROFIT PROGRAM**

3. Diesel Construction Equipment with an engine that meets the EPA particulate matter (PM) Tier emission standards in effect at the start of the Contract for non-road diesel engines for the applicable engine power group (e.g., as of January 1, 2009, a piece of Diesel Construction Equipment with a Tier 3 engine is exempt from meeting the standard until the piece of Diesel Construction Equipment is available with a Tier 4 engine) provided that if such emissions standards are superseded during the Contract then such Diesel Construction Equipment must be retrofitted in accordance with the standards above prior to the end of the Contract;
4. A large crane (e.g. a sky crane or link belt crane which is responsible for critical lift operations) if such device would adversely affect the operation of the crane provided the Contractor submits to the municipality's project engineer written technical justification documenting the adverse impact on operation; and
5. Diesel Construction Equipment that the project engineer has determined is necessary to control a compelling emergency including but not limited to, the need for rescue vehicles or other equipment to prevent harm to human beings or additional equipment required to address a catastrophic emergency such as structure collapse or imminent collapse. After the compelling emergency is controlled, such non-compliant equipment must be removed from the Contract site and may not be used in further performance of the work under this Contract. Meeting Contract deadlines is not a compelling emergency.

Contractor Certification

Each bidder shall submit as part of its bid, the Statement of Intent to Comply. Within 10 days of being notified that it has been awarded a contract, the bidder and each of its Contractors and Subcontractors shall submit a Diesel Retrofit Program Contractor Certification. Each such Certification shall contain the following information for each piece of Diesel Construction Equipment:

1. Contractor or Subcontractor name;
2. Equipment type, make, model;
3. Vehicle Identification Number or VIN;
4. Engine model and year of manufacture;
5. Engine HP rating;
6. Emission Control Device (ECD) type (Diesel Oxidation Catalyst or Diesel Particulate Filter);
7. ECD make, model, and manufacturer;
8. ECD EPA or CARB Verification Number or manufacturer's certification that the DOC or DPF meets or exceeds emission reductions provided by similar emission control technology verified by EPA or CARB;
9. ECD installation date;
10. Type of fuel to be used; and
11. Whether the equipment is owned or rented.

Recordkeeping

Each Contractor and Subcontractor shall maintain detailed records of all Diesel Construction Equipment used under the Contract, including the dates and duration times the Diesel Construction Equipment is

APPENDIX – B (cont.)
DIESEL RETROFIT PROGRAM

used at the Contract site. Records shall be available for inspection by DEP. Each Contractor and Subcontractor shall notify DEP within 48 hours of any new Diesel Construction Equipment brought onto the Contract site.

For Diesel Construction Equipment that has an emissions control device with a manufacturer's certification, the Contractor shall maintain records of all supporting emissions test data and test procedures. If upon review the emissions reductions are not supported by the test data and test procedures, then the emissions control device may need to be replaced with a compliant retrofit device.

Project Regulatory Agreement

The following language shall be included section 4 (Covenants of the Borrower) of the municipality's Project Regulatory Agreement if it receives funds from the State Revolving Fund:

The Borrower shall require each Contractor and Subcontractor to submit the Diesel Retrofit Program Contractor Certification to DEP and the Borrower prior to commencing work on the Project. The Borrower shall not allow any Contractor or Subcontractor to commence work at the Project site prior to submitting such Certification.

**APPENDIX – B (cont.)
DIESEL RETROFIT PROGRAM**

STATEMENT OF INTENT TO COMPLY

This form must be signed and submitted by the bidder as part of the bid.

Local Governmental Unit _____ **SRF Project No.** _____

Contract No. _____ **Contact Title** _____

Bidder _____

The undersigned, on behalf of the above-named Bidder, agrees that, if awarded the Contract:

- 1. the Bidder shall comply with the Department of Environmental Protection’s (“DEP”) Diesel Retrofit Program by ensuring that all diesel powered non-road construction equipment and vehicles greater than 50 brake horsepower which will be used in the performance of the work under the Contract are equipped or retrofitted with a pollution control device in accordance with the Diesel Retrofit Program Standard;**
- 2. the Bidder shall require all Subcontractors to comply with DEP’s Diesel Retrofit Program by ensuring all diesel powered non-road construction equipment and vehicles greater than 50 brake horsepower which will be used in the performance of the work under the Contract are equipped or retrofitted with a pollution control device in accordance with the Diesel Retrofit Program Standard; and**
- 3. The Bidder shall submit and shall require each Subcontractor to submit a Diesel Retrofit Program Contractor Certification (form attached) with a Diesel Retrofit List to DEP (NAME and ADDRESS) and the Bidder within 10 days of the bidder being notified that it has been awarded the Contract. The Bidder shall require each Subcontractor to update such Certification and List within 2 days of using additional Diesel Construction Equipment on the project under the Contract.**

(Signature of Bidder’s Authorized Representative)

(Date)

**CITY OF NEW BEDFORD
MASSACHUSETTS**

NON-COLLUSION AND TAX COMPLIANCE FORM

CERTIFICATE OF NON-COLLUSION

The undersigned certified under penalties of perjury that this bid has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club or other organization, entity or group of individuals.

Signature of individual submitting bid

Name of business/organization

TAX COMPLIANCE CERTIFICATION

Pursuant to M.G.L. c. 62C, §49A, I certify under the penalties of perjury that, to the best of my knowledge and belief, I am in compliance with all laws of the Commonwealth relating to taxes reporting of employees and contractor, and withholding and remitting child support.

Signature of person submitting bid

Name of business

**CITY OF NEW BEDFORD
MASSACHUSETTS**

**VOTE OF CORPORATION AUTHORIZING
EXECUTION OF CORPORATE AGREEMENTS**

At a meeting of the Board of Directors of _____ duly called and held on _____, 20____ at which a quorum was present and acting throughout, the following vote was duly adopted.

VOTED: That _____, the _____ of the corporation, be and hereby is authorized to affix the Corporate Seal, sign and deliver in the name and behalf of the corporation contract documents with the City of New Bedford, the above mentioned documents to include but not be limited to Bids, Proposals, Deeds, Purchase and Sales Agreements, Agreements, Contracts, Leases, Licenses, Releases and Indemnifications; and also to seal and execute, as above, surety company bonds to secure bids and proposals and the performance of said contract and payment for labor and materials, all in such form and on such terms and conditions as he/she, by the execution thereof, shall deem proper. A true copy

ATTEST:

Name (printed)

Signature (Affix Corporate Seal)

Title

Date

OSHA CERTIFICATION REQUIREMENT

Effective **July 1, 2006**, all employees of a contractor to be employed on **public building and public works** worksites must have successfully completed at least a 10 hour course in construction safety and health approved by OSHA at the time the employee begins work.

I, _____, as _____, of the
(Print Name) (Position with the entity submitting bid)

joint venture/corporation/partnership or other legal entity submitting this bid for a public works project falling under §39M of Chapter 30 of the Massachusetts General Laws and Chapter 149 of the same, do hereby certify that any and all employees found on my worksite for this project have, or will have by the start of their work on the project, successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that was at least 10 hours in duration.

A copy of the OSHA completion cards for each employee must be submitted to the City of New Bedford before work on this project is to begin and must be supplemented as new employees are hired or contracted to work on this project.

_____, as
Signature

_____, of
Position

_____, on
Company/Corporation/Joint Venture/Partnership/Etc.

Date

CONTRACTOR CERTIFICATION

As evidenced by the signature of the Contractor's Authorized signatory below, the Contractor certifies under the pains and penalties of perjury that the Contractor shall not knowingly use undocumented workers in connection with the performance of any City contract; that pursuant to federal and state requirements, the Contractor shall verify the immigration status of all workers assigned to such contracts without engaging in unlawful discrimination; and that the Contractor shall not knowingly or recklessly alter, falsify, or accept altered or falsified documents from any such worker(s). The Contractor understands and agrees that breach of any of these terms during the period of each contract may be regarded as a material breach, subjecting the Contractor to sanctions, including but not limited to monetary penalties, withholding of payments, contract suspension or termination.

Contractor Authorized Signature

Printed Name

Date

Title: _____ Telephone: _____

Fax: _____ Email: _____

APPENDIX A
BID SUBMISSION DOCUMENTS



Bid Submission Checklist

THE GENERAL BIDDER SHALL SUBMIT ALL THE FOLLOWING FORMS AS A PART OF ITS BID SUBMISSION, AND SHALL SUBMIT A COPY OF SUCH TO:

The City of New Bedford
Office of Equal Opportunity
133 William Street Room 208
New Bedford, MA 02740
ph: 979-1446 / fax: 508-991-6148

- (1) Certificate of Understanding: Certification of Compliance with Executive Order 11246"
- (2) Schedule of Participation for Minority, Woman & Disadvantaged Business Enterprises
- (3) Letter of Intent - for each MBE/WBE/DBE Participation
- (4) MBE/WBE Contractor Identification Statement - for each MBE/WBE/DBE
- (5) Bidder's Certification - must be completed and signed by the General Contractor and all Subcontractors who will work on the project (to include MBE/WBE/DBE **and** non-MBE/WBE/DBEs)
- (6) If applicable, a completed and signed MBE/WBE/DBE Unavailability Certification in the event that the work listed on the Schedule is not sufficient to fulfill the Requirement for MBE/WBE/DBE Participation. This certification must include a statement by the bidder of the reasons why it believes it is in compliance with this Provision, and a list of the names, addresses, telephone numbers and reason given for unavailability of the Minority /Woman/ Disadvantaged Contractor who was contacted by the Bidder with respect to the performance of work under the contract.

NOTE: FAILURE TO FULLY COMPLETE AND/OR TO SUBMIT ANY OF THE ABOVE-REFERENCED DOCUMENTS AT THE TIME OF THE BID SUBMISSION MAY RESULT IN THE BID BEING CONSIDERED NON RESPONSIVE

Commonwealth of Massachusetts

BIDDERS CERTIFICATE OF UNDERSTANDING

Equal Employment Opportunity Provisions

Contractor _____ Project _____

Address _____ Tel. # _____ Project # _____

_____ Fax # _____

I, the undersigned, understand that:

- A. Minority Business Enterprises are to be awarded at least 11% of the total contract amount for construction/public works projects.
- B. Woman Business Enterprises are to be awarded at least 5% of the total contract amount for construction/public works projects.
- C. Disadvantaged Business Enterprises are to be awarded at least 4% of the total contract amount for airport projects.
- D. All required MBE/WBE/DBE forms included in Instructions to Bidders are to be completed and submitted with the bid.
- E. Prior to award of the contract, a pre-construction conference must be held (to be attended by the general contractor and all subcontractors, regardless of tier) at which time the following requirements will be discussed:
 - 1. Weekly Workforce Utilization Reports (Form CAD85) are to be submitted weekly with payroll reports within five (5) days of last payroll;
 - 2. Quarterly Manpower Projection Tables (Form CAD85-1) are to be submitted with the Start of Construction notification;
 - 3. Any project in the amount of \$100,000+ is subject to the New Bedford Resident Hiring and the Responsible Employer Plan ordinances;
 - 4. A minimum goal of 18% minority manpower utilization, in terms of total work hours in the aggregate workforce, in each trade or craft, on each project, will be maintained. The goal for female manpower utilization will be maintained at 6.9% according to regulations;
 - 5. Minority and female work hours are to be uniform in each trade, and minorities and females are to be employed evenly on each project;
 - 6. Minority or female employees are not be transferred from project to project for the purpose of meeting goals;
 - 7. A roster of all minority and/or female applicants for employment must be maintained at each project site (Federal & Non-Federal) in the New Bedford Hometown Plan Area.
- E. The submission of the above reports and adherence to hiring practices and equal opportunity performance of subcontractors is the responsibility of the prime contractor.

The bidder hereby certifies that he/she shall comply with the minority manpower ratio and specific affirmative action steps contained in the EEO above, including compliance with the minority contractor compliance specifications. The Contractor receiving the award of the contract shall be required to obtain from each of its subcontractors, and submit to the contracting or administering agency prior to the performance of any work under said contract, a certification by said sub-contractor, regardless of tier, that it will comply with the minority manpower ratio and specific affirmative action steps contained in this appendix.

Authorized Signature

Date

Name (Please Print or Type)

Title

**SCHEDULE OF PARTICIPATION
DISADVANTAGED/MINORITY / WOMAN BUSINESS ENTERPRISES
*to be completed by the Bidder***

Item I - Minority Or Disadvantaged Business Enterprise Participation

1. Name: _____

Address: _____

Nature of Participation: _____

Dollar Value / % of Bid: _____

2. Name: _____

Address: _____

Nature of Participation: _____

Dollar Value / % of Bid: _____

TOTAL BID PRICE	TOTAL DBE or MBE COMMITMENT	%
\$ _____	\$ _____	_____

Item II – Woman Or Disadvantaged Business Enterprise Participation

1. Name: _____

Address: _____

Nature of Participation: _____

Dollar Value / % of Bid: _____

2. Name: _____

Address: _____

Nature of Participation: _____

Dollar Value / % of Bid: _____

TOTAL BID PRICE	TOTAL WBE or DBE COMMITMENT	%
\$ _____	\$ _____	_____

The bidder agrees to furnish implementation reports, as required by the awarding authority, to indicate the MBE/WBE or DBE which it has used or intends to use. Breach of this commitment constitutes a breach of the contract.

General Bidder: _____

Signature: _____ Date: _____

LETTER OF INTENT

to be completed by the DBE/MBE/WBE

This form is to be completed by the DBE or MBE and WBE and must be submitted by the General Bidder as part of the Bid Proposal. A separate form must be completed for each MBE, WBE or DBE involved in the project.

Project Title: _____ Project Location: _____

To: _____
(Name of Bidder)

From: _____
(Name of DBE/MBE/WBE) Indicate DBE/MBE/WBE Status

I / we intend to perform work in connection with the above project as (Check One)

- an individual
- a partnership
- a corporation
- a joint venture with: _____
- other (explain): _____

It is understood that if you are awarded the contract, you intend to enter into an agreement to perform the activity described below for the prices indicated.

DBE/MBE/WBE PARTICIPATION:

Description of Activity	Project Start Date	\$ Amount	% of Bid Price
_____	_____	_____	_____

The undersigned certify that they will enter into a formal agreement upon execution of the contract for the above-referenced Project

BIDDER		DBE/MBE / WBE	
Authorized Signature	Date	Authorized Signature	Date
_____	_____	_____	_____
Address	_____	Address	_____
_____	_____	_____	_____
Telephone / Fax	_____	Telephone / Fax	_____
_____	_____	_____	_____

MINORITY / WOMAN BUSINESS ENTERPRISE PROGRAM

CONTRACTOR IDENTIFICATION STATEMENT

Project Name: _____ Project #: _____

Total Bid Price: \$ _____ Bid Date: _____

In accordance with the New Bedford Minority Business Enterprise Program, the undersigned bidder certifies that he/she:

1. is a bona fide Minority/Woman/Disadvantaged Business Enterprise currently certified by the State Office of Minority/Woman Business Assistance (SOMWBA); and such SOMWBA certification has not changed; and in the event of said status changing, it will immediately forward written notification to the City of New Bedford and SOMWBA; and
2. intends to perform certain work (specified by formal bid proposal) under a contract in connection with the above-named project, and that work will not be sublet to any company at any tier; and
3. will comply with the minority/woman workforce ratio and specific affirmative action steps contained in the EEO/AA Contract Provisions and shall obtain from each of its subcontractors a copy of the bidder's certification and submit to the administering agency, prior to the award of such subcontract, regardless of tier, that he/she will comply with the minority/woman workforce ratio and specific affirmative action steps contained in these and the EEO/AA Contract Provisions.

SOMWBA CERTIFICATION CATEGORY: _____

CONTRACTORS NAME: _____
{ } MBE { } WBE { } DBE

ADDRESS: _____

TELEPHONE #: _____ FAX #: _____

REPRESENTATIVE NAME & TITLE: _____

AUTHORIZED SIGNATURE: _____

GENERAL BIDDERS NAME: _____

BIDDERS CERTIFICATION

to be completed by General Contractor & each of its Subcontractors (MBE/WBE/DBE and non-MBE/WBE/DBE)

The undersigned bidder hereby certifies that he/she will comply with the Minority/Woman Workforce Ratio and Specific Affirmative Action Steps contained in the EEO/AA Provisions of this contract, including compliance with the Minority/Woman/Disadvantaged Business Enterprise as required under these contract provisions.

The contractor receiving the award of the contract shall be required to obtain, from each of its subcontractors, regardless of tier, a copy of this Bidder's Certification indicating that it will comply with the Minority/Woman Workforce Ratio and Specific Affirmative Action Steps contained in these EEO/AA Contract Provisions, and submit it to the contracting agency prior to the award of such contract and subcontract.

Name of General Contractor

Name of Subcontractor
{ } MBE { } WBE { } DBE { } Non-MBE/WBE

Signature of Authorized Representative

Signature of Authorized Representative

Name & Title (Printed or Typed)

Name & Title (Printed or Typed)

Date

Date

**MINORITY / WOMAN BUSINESS ENTERPRISES
UNAVAILABILITY CERTIFICATIONS**

to be completed by General Contractor

*(the Bidder shall prepare additional copies of this information form
in the quantity necessary to comply with the bidding requirements)*

I, _____, _____
Name Title

of _____
Contractor Name

certify that on _____, I contacted the below listed MBE/WBE/DBE
Date of Contact
requesting a bid for

Project _____ as an { } MBE, { } WBE or { } DBE for the provision of
{ } Goods & Services or { } Labor to accomplish _____
Subcontract Work Offered to this MBE/WBE/DBE Company

Name of Prospective Sub-Contractor

Address City and State Telephone #

Contact was made by { } Telephone { } In Person

Said sub-contractor was unavailable for work on this project or unable to prepare a bid for the following reason(s):
(check appropriate answer):

{ } MBE/WBE/DBE Firm Declined Job

{ } MBE/WBE/DBE Firm offered to do a job at the price of \$_____, which was not
acceptable because: _____

{ } Other _____

The above information is accurate and complete, to the best of my knowledge and belief. Signed under the pains and
penalties of perjury.

Signature of Authorized Representative, General Contractor Date

MINORITY / WOMAN/DISADVANTAGED BUSINESS ENTERPRISES

REQUEST FOR WAIVER

Upon exhausting all known sources and making every possible effort to meet the minimum requirements for MBE/WBE/DBE participation, the Contractor may seek relief from these requirements by filing this form (completed) NO LATER THAN FIVE (5) working days following the bid opening. Failure to comply with this process shall be cause the bidder to be rejected, thereby rendering the contractor not eligible for award of the contract.

General Information

Project Title: _____ Location: _____

Bid Opening (time/date): _____ Location: _____

Bidder: _____

Mailing Address: _____

Contact Person: _____

Telephone No.: (_____) _____ Ext. _____

Minimum Requirements

The contractor must show that good faith efforts were undertaken to comply with the percentage goals, as specified. The bidder seeking relief must show that such efforts were taken appropriately, in advance of the time set for opening bid proposals, to allow adequate time for response(s) by submitting the following: *(please check all that apply and attach applicable documentation)*

- A. A detailed record of the effort made to contact and negotiate with minority, woman or disadvantaged business enterprises, to include:
- () 1. Names, addresses and telephone numbers of all such companies contacted;
 - () 2. Copies of written notice(s) which were sent to MBE/WBE/DBE potential subcontractors prior to bid opening;
 - () 3. Copies of advertisements prior to bid opening, as appearing in general publications, trade-oriented publications, and applicable minority/women focused media detailing the opportunities for participation.
 - () 4. A detailed statement as to why each subcontractor contacted (a) was not willing to do the job or (b) was not qualified to perform the work as solicited; and
 - () 5. In the case(s) where a negotiated price could not be reached, the bidder should detail what efforts were made to reach an agreement on a competitive price
 - () 6. Contractor certifies that 100% of the project is to be carried out with his/her own workforce. no subcontractors are to be utilized.

- B. The Agency may require the contractor to produce such additional information, as it deems appropriate and may obtain whatever other information it deems necessary to reach a conclusion from any source.
- C. No later than fifteen (15) days after receipt of all necessary information and documentation, a decision will be made in writing to the bidder. If the waiver request is denied, the facts upon which a denial is based will be set forth. A contractor who is dissatisfied with the decision may then appeal that decision to the Equal Opportunity Employment Agency.

Certification

The undersigned herewith certified that the above information and appropriate attachments are true and accurate to the best of my ability, and that I have been authorized to act on behalf of the bidder in this matter.

(authorized original signature)

Date

Submit to: Equal Employment Opportunity
Compliance Officer
133 William Street, Room 208
New Bedford, MA 02740

To be completed by the City of New Bedford's EEO

Bid Date

Date Received by EEO

Initials

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
 MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF MUNICIPAL SERVICES

SCHEDULE OF PARTICIPATION FOR SRF CONSTRUCTION

Project Title: _____ **Project Location:** _____

Disadvantaged Minority Business Enterprise Participation in the SRF Loan Work

Name & Address of D/MBE	Nature of Participation	Dollar Value of Participation
1.		
2.		
3.		
Total D/MBE Commitment:		\$
Percentage D/MBE Participation = (Total D/MBE Commitment) / (Bid Price) =		%

Disadvantaged Women Business Enterprise Participation in the SRF Loan Work

Name & Address of D/WBE	Nature of Participation	Dollar Value of Participation
1.		
2.		
3.		
Total D/WBE Commitment:		\$
Percentage D/WBE Participation = (Total D/WBE Commitment) / (Bid Price) =		%

The Bidder agrees to furnish implementation reports as required by MassDEP to indicate the D/MBEs and D/WBE(s) which it has used or intends to use. Breach of this commitment constitutes a breach of the contract.

Name of Bidder: _____

Date: _____ By: _____
Signature

NOTE: Participation of a DBE may be counted in only their certified category; the same dollar participation cannot be used in computing the percentage of D/MBE participation and again of D/WBE participation.

DBE CERTIFICATION OF UNITED STATES CITIZENSHIP

For the SRF program, under the EPA Disadvantage Business Enterprise (DBE) Rule, a DBE must be owned or controlled by a socially and economically disadvantaged person that is also a **citizen of the United States** (See 40 CFR 33.202). “Ownership” is defined at 13 CFR 124.105 and “control” is defined at 13 CFR 124.106.

DBEs are certified for the SRF program through the Supplier Diversity Office using the federal Department of Transportation (DOT) DBE rules. EPA allows the use of DBEs certified under the DOT rules as long as they are also United States citizens. To ensure compliance with the EPA rule, MassDEP must verify United States citizenship through the completion of the following form for each DBE used on the project.

SRF Project Number _____

Contract Number _____

Contract Title _____

DBE Subcontractor _____

The undersigned, on behalf of the above named DBE subcontractor, hereby certifies that the DBE firm is either owned or controlled by a person or persons that are citizens of the United States.

Printed Name and Title of DBE Signatory

DBE Signature

Date

**BID FORM
TO
CITY OF NEW BEDFORD, MASSACHUSETTS
WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
PART II – 36-INCH TRANSMISSION MAINS
PROJECT NO. DWSRF-3870
BID NO. 15450041**

The undersigned declares that the only persons or parties interested in this Bid as principals are as stated; that the Bid is made without any collusion with other persons, firms, or corporations; that all the Contract Documents as prepared by CDM Smith, 260 West Exchange Street, Suite 300, Providence, Rhode Island 02903 and dated February 2015 have been carefully examined; that the undersigned is fully informed in regard to all conditions pertaining to the Work and the place where it is to be done, and from them the undersigned makes this Bid. These prices shall cover all expenses incurred in performing the Work required under the Contract Documents, of which this Bid Form is a part.

The time period for holding bids, where Federal approval is not required is 30 days, Saturdays, Sundays and legal holidays excluded, after the opening of bids and where Federal approved is required, the time period for holding bids is 30 days, Saturdays, Sundays and holidays excluded after Federal approval.

The Bid Security accompanying this Bid shall be in the amount of five percent of the Bid.

If a Notice of Award accompanied by at least six unsigned copies of the Agreement and all other applicable Contract Documents is delivered to the undersigned within thirty days, excluding Saturdays, Sundays, and legal holidays, after the actual date of the opening of the Bids, the undersigned will within five days, excluding Saturdays, Sundays, and legal holidays, after the date of receipt of such notification, execute and return all copies of the Agreement and all other applicable Contract Documents to Owner. The premiums for all Bonds required shall be paid by Contractor and shall be included in the Contract Price. The undersigned Bidder further agrees that the Bid Security accompanying this Bid shall become the property of Owner if the Bidder fails to execute the Agreement as stated above.

The Bid Security shall be sealed in a separate envelope from the Bid and then attached to the envelope containing the Bid.

The undersigned hereby agrees that the Contract Time shall commence twenty days following the Effective Date of the Agreement and to fully complete the Work within 730 Calendar Days and in accordance with the terms as stated in the Agreement. The undersigned further agrees to pay OWNER, as liquidated damages, \$2,500 per day for each calendar day beyond the Contract Time Limit or extension thereof that the Work remains incomplete, in accordance with the terms of the Agreement.

The undersigned acknowledges receipt of addenda numbered:

In accordance with the above understanding, the undersigned proposes to perform the Work, furnish all materials and complete the Work in its entirety in the manner and under the conditions required at the prices listed as follows:

**CITY OF NEW BEDFORD, MASSACHUSETTS
WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
PART II - 36-INCH TRANSMISSION MAINS
PROJECT NO. DWSRF-3870
BID NO. 15450041**

BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
1A	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 1	\$ _____	\$ _____
		Lump Sum		
1B	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 2	\$ _____	\$ _____
		Lump Sum		
1C	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 3	\$ _____	\$ _____
		Lump Sum		

**CITY OF NEW BEDFORD, MASSACHUSETTS
 WATER SYSTEM IMPROVEMENTS
 TRANSMISSION MAIN REINFORCEMENT PROGRAM
 PART II - 36-INCH TRANSMISSION MAINS
 PROJECT NO. DWSRF-3870
 BID NO. 15450041**

BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
1D	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 4	\$ _____	\$ _____
		Lump Sum		
1E	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 5	\$ _____	\$ _____
		Lump Sum		
1F	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 6	\$ _____	\$ _____
		Lump Sum		

**CITY OF NEW BEDFORD, MASSACHUSETTS
WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
PART II - 36-INCH TRANSMISSION MAINS
PROJECT NO. DWSRF-3870
BID NO. 15450041**

BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
1G	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 7	\$ _____	\$ _____
		Lump Sum		
1H	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 8	\$ _____	\$ _____
		Lump Sum		
1I	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 9	\$ _____	\$ _____
		Lump Sum		

CITY OF NEW BEDFORD, MASSACHUSETTS
WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
PART II - 36-INCH TRANSMISSION MAINS
PROJECT NO. DWSRF-3870
BID NO. 15450041

BID FORM - REVISED - ADDENDUM NO. 1 - FEBRUARY 26, 2015

ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
1J	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 10	\$ _____	\$ _____
		Lump Sum		
1K	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 11	\$ _____	\$ _____
		Lump Sum		
1L	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 12	\$ _____	\$ _____
		Lump Sum		

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 BID NO. 15450041**

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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
1M	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 13	\$ _____	\$ _____
		Lump Sum		
1N	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 14	\$ _____	\$ _____
		Lump Sum		
1O	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 15	\$ _____	\$ _____
		Lump Sum		

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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
1P	1 Lump Sum	Furnish and install all work shown on the Drawings to remove and replace existing piping, valves and manholes and install new valves, piping, fittings, couplings, manholes, appurtenances and all other required work for Valve Work Area No. 16	\$ _____	\$ _____
		Lump Sum		
2	1 each	Furnish and install 36-inch line stops with concrete thrust blocks as shown on the Drawings and remove line stops at completion of construction	\$ _____	\$ _____
		each		
3A	2,200 linear feet	Furnish and install 16-inch, Class 52, cement-lined ductile-iron water pipe, including earth excavation and backfill	\$ _____	\$ _____
		per linear foot		
3B	120 linear feet	Furnish and install 12-inch, Class 52, cement-lined ductile-iron water pipe, including earth excavation and backfill	\$ _____	\$ _____
		per linear foot		

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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
3C	10 linear feet	Furnish and install 10-inch, Class 52, cement-lined ductile-iron water pipe, including earth excavation and backfill	\$ _____	\$ _____
		per linear foot		
3D	640 linear feet	Furnish and install 8-inch, Class 52, cement- lined ductile-iron water pipe, including earth excavation and backfill	\$ _____	\$ _____
		per linear foot		
3E	60 linear feet	Furnish and install 6-inch, Class 52, cement- lined ductile-iron water pipe, including earth excavation and backfill	\$ _____	\$ _____
		per linear foot		
3F	10 linear feet	Furnish and install 4-inch, Class 52, cement- lined ductile-iron water pipe, including earth excavation and backfill	\$ _____	\$ _____
		per linear foot		
3G	6,100 pounds	Furnish and install ductile-iron fittings	\$ _____	\$ _____
		per pound		

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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
3H	1 each	Furnish and install 12-inch couplings	\$ _____	\$ _____
		each		
3I	1 each	Furnish and install 10-inch couplings	\$ _____	\$ _____
		each		
3J	3 each	Furnish and install 8-inch couplings	\$ _____	\$ _____
		each		
3K	10 each	Furnish and install 6-inch couplings	\$ _____	\$ _____
		each		
3L	1 each	Furnish and install 4-inch couplings	\$ _____	\$ _____
		each		

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BID NO. 15450041

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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
4A	15 each	Furnish and install 16-inch butterfly valves and boxes _____ each	\$ _____	\$ _____
4B	2 each	Furnish and install 12-inch gate valves and boxes _____ each	\$ _____	\$ _____
4C	12 each	Furnish and install 8-inch gate valves and boxes _____ each	\$ _____	\$ _____
4D	8 each	Furnish and install new fire hydrant assemblies including all associated fittings, connecting pipe, gate valves, thrust restraint and joint restraint as necessary _____ each	\$ _____	\$ _____
5A	20 each	Furnish and install-1 inch corporation stops _____ each	\$ _____	\$ _____

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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
5B	10 each	Furnish and install 2-inch corporation stops _____ each	\$ _____	\$ _____
5C	5 each	Furnish and install curb stops for 1-inch service connections including all required fittings _____ each	\$ _____	\$ _____
5D	5 each	Furnish and install curb stops for 2-inch service connections including all required fittings _____ each	\$ _____	\$ _____
5E	350 linear feet	Furnish and install 1-inch copper service tubing _____ per linear foot	\$ _____	\$ _____
5F	250 linear feet	Furnish and install 2-inch copper service tubing _____ per linear foot	\$ _____	\$ _____

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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
6A	84,000 linear feet	Furnish, install and remove 6-inch temporary service pipe including all service connections _____	\$ _____	\$ _____
		per linear foot		
6B	89,000 linear feet	Furnish, install and remove 4-inch temporary service pipe including all service connections _____	\$ _____	\$ _____
		per linear foot		
6C	80,000 linear feet	Furnish, install and remove 2-inch temporary service pipe including all service connections _____	\$ _____	\$ _____
		per linear foot		
6D	220 each	Furnish, install and remove temporary hydrants _____	\$ _____	\$ _____
		each		
6E	30 each	Furnish and install tap holes and backfill tap hole excavations for temporary service connections _____	\$ _____	\$ _____
		each		

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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
6F	2 each	Furnish and install 12-inch insertion valves for shut down of existing water mains if inoperable side line valves are encountered	\$ _____	\$ _____
		each		
6G	1 each	Furnish and install 10-inch insertion valves for shut down of existing water mains if inoperable side line valves are encountered	\$ _____	\$ _____
		each		
6H	5 each	Furnish and install 8-inch insertion valves for shut down of existing water mains if inoperable side line valves are encountered	\$ _____	\$ _____
		each		
6I	5 each	Furnish and install 6-inch insertion valves for shut down of existing water mains if inoperable side line valves are encountered	\$ _____	\$ _____
		each		

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ITEM NO.	ESTIMATED QUANTITY	BRIEF DESCRIPTION OF ITEMS WITH UNIT BID PRICE IN WORDS	UNIT BID PRICE IN FIGURES	AMOUNT IN FIGURES
7A	150 cubic yards	Rock excavation _____	\$ _____	\$ _____
		per cubic yard		
7B	150 cubic yards	Boulder excavation _____	\$ _____	\$ _____
		per cubic yard		
7C	150 cubic yards	Excavating below normal grade including gravel refill _____	\$ _____	\$ _____
		per cubic yard		
8	50 linear feet	Remove and dispose of existing asbestos cement water main _____	\$ _____	\$ _____
		per linear foot		
9A	2,500 cubic yards	Gravel for pavement, driveway and sidewalk base and subbase _____	\$ _____	\$ _____
		per cubic yard		
9B	250 cubic yards	Screened gravel _____	\$ _____	\$ _____
		per cubic yard		

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9C	100 cubic yards	Controlled Density Fill (CDF)/Controlled Low Strength Material (CLSM)	\$ _____	\$ _____
		per cubic yard		
10	100 cubic yards	Miscellaneous concrete	\$ _____	\$ _____
		per cubic yard		
11A	5,000 square yards	Furnish and install initial trench-width pavement in City streets, which includes 3 inch thick hot mix asphalt bituminous binder course	\$ _____	\$ _____
		per square yard		
11B	5,000 square yards	Furnish and install permanent trench-width pavement in City streets, which includes 1-1/2 inch thick hot mix asphalt bituminous binder course and 1-1/2 inch thick hot mix asphalt bituminous top course	\$ _____	\$ _____
		per square yard		

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11C	7,000 square yards	Furnish and install permanent curb-to-curb pavement in City streets, which includes cold planing existing paving as specified and 1-1/2 inch thick hot mix asphalt bituminous top course overlay	\$ _____	\$ _____
		per square yard		
11D	150 each	Adjustment or realignment of curb and valve boxes	\$ _____	\$ _____
		each		
12	1 Lump Sum	Equipment for traffic management	\$ _____	\$ _____
		Lump Sum		
13	500 cubic yards	Test pits	\$ _____	\$ _____
		per cubic yard		
14	1 Lump Sum	Miscellaneous work and clean-up	\$ _____	\$ _____
		Lump Sum		

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15	1 Lump Sum	Mobilization (no more than 5% of the Base Bid Price)		
		Lump Sum	\$ _____	\$ _____

**CITY OF NEW BEDFORD, MASSACHUSETTS
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SUBTOTAL PAGE 00300-2:	\$ _____
SUBTOTAL PAGE 00300-3:	\$ _____
SUBTOTAL PAGE 00300-4:	\$ _____
SUBTOTAL PAGE 00300-5:	\$ _____
SUBTOTAL PAGE 00300-6:	\$ _____
SUBTOTAL PAGE 00300-7:	\$ _____
SUBTOTAL PAGE 00300-8:	\$ _____
SUBTOTAL PAGE 00300-9:	\$ _____
SUBTOTAL PAGE 00300-10:	\$ _____
SUBTOTAL PAGE 00300-11:	\$ _____
SUBTOTAL PAGE 00300-12:	\$ _____
SUBTOTAL PAGE 00300-13:	\$ _____
SUBTOTAL PAGE 00300-14:	\$ _____
SUBTOTAL PAGE 00300-15:	\$ _____
SUBTOTAL PAGE 00300-16:	\$ _____
SUBTOTAL PAGE 00300-17:	\$ _____
TOTAL BID PRICE	\$ _____

The undersigned agrees that extra work, if any, will be performed in accordance with Article 10 of the Conditions of the Contract and will be paid for in accordance with Article 11 of the Conditions of the Contract.

The bidding and award of this Contract will be in accordance with M.G.L. Chapter 30, Section 39M.

The undersigned must furnish a 100 percent Performance Bond and a 100 percent Payment Bond with a surety company acceptable to Owner.

Amounts shall be shown in both words and figures, where indicated. In case of discrepancy, the amount shown in words will govern.

The above prices shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance and incidentals required to complete the Work.

The names and residences of all persons and parties interested in the foregoing Bid as principals are as follows:

(Give first and last names in full. In the case of a corporation, see Article 8.3 of the Instructions to Bidders, in the case of a limited liability company (LLC), see Article 8.4 of the Instructions to Bidders, in the case of a partnership, see Article 8.5 of the Instructions to Bidders.)

The attached Department of Environmental Protection Diesel Retrofit Program Form *and DBE Forms* must be completed and submitted as part of the Bid Proposal.

The City of New Bedford, Massachusetts Non-Collusion and Tax Compliance, Vote of Corporation Authorizing Execution of Corporate Agreements, OSHA Certification Requirement, Contractor Certification, Bidder Certificate of Understanding, Schedule of Participation Disadvantaged/Minority/Woman Business Enterprises, Letter of Intent from DBE/MBE/WBE, Minority/Woman Business Enterprise Program Contractor Identification Statement, Bidders Certification, Minority/Woman Business Enterprises Unavailability Certifications, and Minority/Woman Business Enterprises Request for Waiver forms must be completed and submitted as part of the Bid Proposal.

Pursuant to M.G.L. Ch. 62C, sec. 49A, I certify under the penalties of perjury that I, to my best knowledge and belief, have filed all state tax returns and paid all state taxes required under law.

The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee.

The undersigned bidder hereby certifies he/she will comply with the specific affirmative action steps contained in the Equal Employment Opportunity/Affirmative Action (EEO/AA) provisions of this Contract, including compliance with the Disadvantaged Business Enterprise provisions as required under these contract provisions. The Contractor receiving the award of the contract shall incorporate the EEO/AA provisions of this contract into all subcontracts and purchase orders so that such provisions will be binding upon each subcontractor or vendor.

Bidders must fully comply with Subpart C of 2 CFR Part 180 and 2 CFR Part 1532, entitled Responsibilities of Participants Regarding Transactions (Doing Business with Other Persons). Contractors, subcontractors, or suppliers that appear on the Excluded Parties List System at www.epls.gov are not eligible for award of any contracts funded by the Massachusetts State Revolving Fund.

The undersigned hereby certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this section, the word "person" shall mean any natural person, joint venture, partnership, corporation, limited liability company, or other business or legal entity. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of Section Twenty-nine F of Chapter Twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder; and is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.

Social Security Number
or Federal Identification
Number

Signature of Individual or
Corporate Name

By: _____
Corporate Officer (if applicable)

Notice of acceptance should be mailed, faxed, or delivered to the following:

(Name)

By: _____
(Title)

(Business Address)

(City and State)

Date: _____

If the Bidder is a corporation, indicate State of incorporation under signature, and affix corporate seal; if a partnership, give full names and residential addresses, if different from business address.

APPENDIX – B DIESEL RETROFIT PROGRAM

The Department of Environmental Protection (“DEP”) has developed the Diesel Retrofit Program in response to increasing public health concerns with the emissions from diesel engines and vehicles.

Diesel Construction Equipment Standard

All diesel powered non-road construction equipment and vehicles greater than 50 brake horsepower which will be used in the performance of the work under the Contract (hereinafter “Diesel Construction Equipment”) must have the following pollution control device installed unless exempt as provided below:

1. Emission control technology verified by U.S. Environmental Protection Agency (“EPA”) or the California Air Resources Board (“CARB”) for use with non-road engines;
2. Emission control technology verified by EPA or CARB for use with on-road engines provided that such equipment is operated with diesel fuel that has no more than 15 parts per million sulfur content (i.e. Ultra Low Sulfur Diesel fuel); or
3. Emission control technology certified by the manufacturer that such technology meets or exceeds the emission reductions provided by on-road or off-road emission control technology verified by EPA or CARB, i.e. that a Diesel Oxidation Catalyst is achieving the following minimum emission reductions: particulate matter 20%; carbon monoxide 40%; volatile organic compounds 50%; or a Diesel Particulate Filter is achieving a minimum of 85% emission reductions for particulate matter.

Emission control devices, such as oxidation catalysts or particulate filters, shall be installed on the exhaust system side of the Diesel Construction Equipment. The Contractor shall be responsible to insure that the emissions control technology is operated, maintained, and serviced as recommended by the manufacturer.

For the latest up-to-date list of EPA verified-technologies, see:

<http://www.epa.gov/otaq/retrofit/retroverifiedlist.htm>

For the latest up-to-date list of CARB verified technologies, see:

<http://www.arb.ca.gov/diesel/verdev/verifiedtechnologies/vt.htm>

Exemptions

The following Diesel Construction Equipment shall be exempt from the standard above. The Contractor shall include such Diesel Construction Equipment in the required recordkeeping:

1. Diesel Construction Equipment not owned by the Contractor and used in the performance of the work under this Contract for 30 calendar days (cumulative days but not necessarily consecutive) or less;
2. Unless otherwise exempt, additional Diesel Construction Equipment originally not anticipated to be used under the Contract or used as permanent replacement after the work under the Contract has commenced, for 15 calendar days from the date such Diesel Construction Equipment is brought on site;

APPENDIX – B (cont.)
DIESEL RETROFIT PROGRAM

3. Diesel Construction Equipment with an engine that meets the EPA particulate matter (PM) Tier emission standards in effect at the start of the Contract for non-road diesel engines for the applicable engine power group_(e.g., as of January 1, 2009, a piece of Diesel Construction Equipment with a Tier 3 engine is exempt from meeting the standard until the piece of Diesel Construction Equipment is available with a Tier 4 engine) provided that if such emissions standards are superseded during the Contract then such Diesel Construction Equipment must be retrofitted in accordance with the standards above prior to the end of the Contract;
4. A large crane (e.g. a sky crane or link belt crane which is responsible for critical lift operations) if such device would adversely affect the operation of the crane provided the Contractor submits to the municipality's project engineer written technical justification documenting the adverse impact on operation; and
5. Diesel Construction Equipment that the project engineer has determined is necessary to control a compelling emergency including but not limited to, the need for rescue vehicles or other equipment to prevent harm to human beings or additional equipment required to address a catastrophic emergency such as structure collapse or imminent collapse. After the compelling emergency is controlled, such non-compliant equipment must be removed from the Contract site and may not be used in further performance of the work under this Contract. Meeting Contract deadlines is not a compelling emergency.

Contractor Certification

Each bidder shall submit as part of its bid, the Statement of Intent to Comply. Within 10 days of being notified that it has been awarded a contract, the bidder and each of its Contractors and Subcontractors shall submit a Diesel Retrofit Program Contractor Certification. Each such Certification shall contain the following information for each piece of Diesel Construction Equipment:

1. Contractor or Subcontractor name;
2. Equipment type, make, model;
3. Vehicle Identification Number or VIN;
4. Engine model and year of manufacture;
5. Engine HP rating;
6. Emission Control Device (ECD) type (Diesel Oxidation Catalyst or Diesel Particulate Filter);
7. ECD make, model, and manufacturer;
8. ECD EPA or CARB Verification Number or manufacturer's certification that the DOC or DPF meets or exceeds emission reductions provided by similar emission control technology verified by EPA or CARB;
9. ECD installation date;
10. Type of fuel to be used; and
11. Whether the equipment is owned or rented.

Recordkeeping

Each Contractor and Subcontractor shall maintain detailed records of all Diesel Construction Equipment used under the Contract, including the dates and duration times the Diesel Construction Equipment is

APPENDIX – B (cont.)
DIESEL RETROFIT PROGRAM

used at the Contract site. Records shall be available for inspection by DEP. Each Contractor and Subcontractor shall notify DEP within 48 hours of any new Diesel Construction Equipment brought onto the Contract site.

For Diesel Construction Equipment that has an emissions control device with a manufacturer's certification, the Contractor shall maintain records of all supporting emissions test data and test procedures. If upon review the emissions reductions are not supported by the test data and test procedures, then the emissions control device may need to be replaced with a compliant retrofit device.

Project Regulatory Agreement

The following language shall be included section 4 (Covenants of the Borrower) of the municipality's Project Regulatory Agreement if it receives funds from the State Revolving Fund:

The Borrower shall require each Contractor and Subcontractor to submit the Diesel Retrofit Program Contractor Certification to DEP and the Borrower prior to commencing work on the Project. The Borrower shall not allow any Contractor or Subcontractor to commence work at the Project site prior to submitting such Certification.

**APPENDIX – B (cont.)
DIESEL RETROFIT PROGRAM**

STATEMENT OF INTENT TO COMPLY

This form must be signed and submitted by the bidder as part of the bid.

Local Governmental Unit _____ **SRF Project No.** _____

Contract No. _____ **Contact Title** _____

Bidder _____

The undersigned, on behalf of the above-named Bidder, agrees that, if awarded the Contract:

- 1. the Bidder shall comply with the Department of Environmental Protection’s (“DEP”) Diesel Retrofit Program by ensuring that all diesel powered non-road construction equipment and vehicles greater than 50 brake horsepower which will be used in the performance of the work under the Contract are equipped or retrofitted with a pollution control device in accordance with the Diesel Retrofit Program Standard;**
- 2. the Bidder shall require all Subcontractors to comply with DEP’s Diesel Retrofit Program by ensuring all diesel powered non-road construction equipment and vehicles greater than 50 brake horsepower which will be used in the performance of the work under the Contract are equipped or retrofitted with a pollution control device in accordance with the Diesel Retrofit Program Standard; and**
- 3. The Bidder shall submit and shall require each Subcontractor to submit a Diesel Retrofit Program Contractor Certification (form attached) with a Diesel Retrofit List to DEP (NAME and ADDRESS) and the Bidder within 10 days of the bidder being notified that it has been awarded the Contract. The Bidder shall require each Subcontractor to update such Certification and List within 2 days of using additional Diesel Construction Equipment on the project under the Contract.**

(Signature of Bidder’s Authorized Representative)

(Date)

**CITY OF NEW BEDFORD
MASSACHUSETTS**

NON-COLLUSION AND TAX COMPLIANCE FORM

CERTIFICATE OF NON-COLLUSION

The undersigned certified under penalties of perjury that this bid has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word “person” shall mean any natural person, business, partnership, corporation, union, committee, club or other organization, entity or group of individuals.

Signature of individual submitting bid

Name of business/organization

TAX COMPLIANCE CERTIFICATION

Pursuant to M.G.L. c. 62C, §49A, I certify under the penalties of perjury that, to the best of my knowledge and belief, I am in compliance with all laws of the Commonwealth relating to taxes reporting of employees and contractor, and withholding and remitting child support.

Signature of person submitting bid

Name of business

**CITY OF NEW BEDFORD
MASSACHUSETTS**

**VOTE OF CORPORATION AUTHORIZING
EXECUTION OF CORPORATE AGREEMENTS**

At a meeting of the Board of Directors of _____ duly called and held on _____, 20____ at which a quorum was present and acting throughout, the following vote was duly adopted.

VOTED: That _____, the _____ of the corporation, be and hereby is authorized to affix the Corporate Seal, sign and deliver in the name and behalf of the corporation contract documents with the City of New Bedford, the above mentioned documents to include but not be limited to Bids, Proposals, Deeds, Purchase and Sales Agreements, Agreements, Contracts, Leases, Licenses, Releases and Indemnifications; and also to seal and execute, as above, surety company bonds to secure bids and proposals and the performance of said contract and payment for labor and materials, all in such form and on such terms and conditions as he/she, by the execution thereof, shall deem proper. A true copy

ATTEST:

Name (printed)

Signature (Affix Corporate Seal)

Title

Date

OSHA CERTIFICATION REQUIREMENT

Effective **July 1, 2006**, all employees of a contractor to be employed on **public building and public works** worksites must have successfully completed at least a 10 hour course in construction safety and health approved by OSHA at the time the employee begins work.

I, _____, as _____, of the
(Print Name) (Position with the entity submitting bid)

joint venture/corporation/partnership or other legal entity submitting this bid for a public works project falling under §39M of Chapter 30 of the Massachusetts General Laws and Chapter 149 of the same, do hereby certify that any and all employees found on my worksite for this project have, or will have by the start of their work on the project, successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that was at least 10 hours in duration.

A copy of the OSHA completion cards for each employee must be submitted to the City of New Bedford before work on this project is to begin and must be supplemented as new employees are hired or contracted to work on this project.

_____, as
Signature

_____, of
Position

_____, on
Company/Corporation/Joint Venture/Partnership/Etc.

Date

CONTRACTOR CERTIFICATION

As evidenced by the signature of the Contractor's Authorized signatory below, the Contractor certifies under the pains and penalties of perjury that the Contractor shall not knowingly use undocumented workers in connection with the performance of any City contract; that pursuant to federal and state requirements, the Contractor shall verify the immigration status of all workers assigned to such contracts without engaging in unlawful discrimination; and that the Contractor shall not knowingly or recklessly alter, falsify, or accept altered or falsified documents from any such worker(s). The Contractor understands and agrees that breach of any of these terms during the period of each contract may be regarded as a material breach, subjecting the Contractor to sanctions, including but not limited to monetary penalties, withholding of payments, contract suspension or termination.

Contractor Authorized Signature

Printed Name

Date

Title: _____ Telephone: _____

Fax: _____ Email: _____

APPENDIX A
BID SUBMISSION DOCUMENTS



Bid Submission Checklist

THE GENERAL BIDDER SHALL SUBMIT ALL THE FOLLOWING FORMS AS A PART OF ITS BID SUBMISSION, AND SHALL SUBMIT A COPY OF SUCH TO:

The City of New Bedford
Office of Equal Opportunity
133 William Street Room 208
New Bedford, MA 02740
ph: 979-1446 / fax: 508-991-6148

- (1) Certificate of Understanding: Certification of Compliance with Executive Order 11246"
- (2) Schedule of Participation for Minority, Woman & Disadvantaged Business Enterprises
- (3) Letter of Intent - for each MBE/WBE/DBE Participation
- (4) MBE/WBE Contractor Identification Statement - for each MBE/WBE/DBE
- (5) Bidder's Certification - must be completed and signed by the General Contractor and all Subcontractors who will work on the project (to include MBE/WBE/DBE **and** non-MBE/WBE/DBEs)
- (6) If applicable, a completed and signed MBE/WBE/DBE Unavailability Certification in the event that the work listed on the Schedule is not sufficient to fulfill the Requirement for MBE/WBE/DBE Participation. This certification must include a statement by the bidder of the reasons why it believes it is in compliance with this Provision, and a list of the names, addresses, telephone numbers and reason given for unavailability of the Minority /Woman/ Disadvantaged Contractor who was contacted by the Bidder with respect to the performance of work under the contract.

NOTE: FAILURE TO FULLY COMPLETE AND/OR TO SUBMIT ANY OF THE ABOVE-REFERENCED DOCUMENTS AT THE TIME OF THE BID SUBMISSION MAY RESULT IN THE BID BEING CONSIDERED NON RESPONSIVE

Commonwealth of Massachusetts

BIDDERS CERTIFICATE OF UNDERSTANDING

Equal Employment Opportunity Provisions

Contractor _____ Project _____

Address _____ Tel. # _____ Project # _____

_____ Fax # _____

I, the undersigned, understand that:

- A. Minority Business Enterprises are to be awarded at least 11% of the total contract amount for construction/public works projects.
- B. Woman Business Enterprises are to be awarded at least 5% of the total contract amount for construction/public works projects.
- C. Disadvantaged Business Enterprises are to be awarded at least 4% of the total contract amount for airport projects.
- D. All required MBE/WBE/DBE forms included in Instructions to Bidders are to be completed and submitted with the bid.
- E. Prior to award of the contract, a pre-construction conference must be held (to be attended by the general contractor and all subcontractors, regardless of tier) at which time the following requirements will be discussed:
 - 1. Weekly Workforce Utilization Reports (Form CAD85) are to be submitted weekly with payroll reports within five (5) days of last payroll;
 - 2. Quarterly Manpower Projection Tables (Form CAD85-1) are to be submitted with the Start of Construction notification;
 - 3. Any project in the amount of \$100,000+ is subject to the New Bedford Resident Hiring and the Responsible Employer Plan ordinances;
 - 4. A minimum goal of 18% minority manpower utilization, in terms of total work hours in the aggregate workforce, in each trade or craft, on each project, will be maintained. The goal for female manpower utilization will be maintained at 6.9% according to regulations;
 - 5. Minority and female work hours are to be uniform in each trade, and minorities and females are to be employed evenly on each project;
 - 6. Minority or female employees are not be transferred from project to project for the purpose of meeting goals;
 - 7. A roster of all minority and/or female applicants for employment must be maintained at each project site (Federal & Non-Federal) in the New Bedford Hometown Plan Area.
- E. The submission of the above reports and adherence to hiring practices and equal opportunity performance of subcontractors is the responsibility of the prime contractor.

The bidder hereby certifies that he/she shall comply with the minority manpower ratio and specific affirmative action steps contained in the EEO above, including compliance with the minority contractor compliance specifications. The Contractor receiving the award of the contract shall be required to obtain from each of its subcontractors, and submit to the contracting or administering agency prior to the performance of any work under said contract, a certification by said sub-contractor, regardless of tier, that it will comply with the minority manpower ratio and specific affirmative action steps contained in this appendix.

Authorized Signature

Date

Name (Please Print or Type)

Title

**SCHEDULE OF PARTICIPATION
DISADVANTAGED/MINORITY / WOMAN BUSINESS ENTERPRISES
*to be completed by the Bidder***

Item I - Minority Or Disadvantaged Business Enterprise Participation

1. Name: _____

Address: _____

Nature of Participation: _____

Dollar Value / % of Bid: _____

2. Name: _____

Address: _____

Nature of Participation: _____

Dollar Value / % of Bid: _____

TOTAL BID PRICE	TOTAL DBE or MBE COMMITMENT	%
\$ _____	\$ _____	_____

Item II – Woman Or Disadvantaged Business Enterprise Participation

1. Name: _____

Address: _____

Nature of Participation: _____

Dollar Value / % of Bid: _____

2. Name: _____

Address: _____

Nature of Participation: _____

Dollar Value / % of Bid: _____

TOTAL BID PRICE	TOTAL WBE or DBE COMMITMENT	%
\$ _____	\$ _____	_____

The bidder agrees to furnish implementation reports, as required by the awarding authority, to indicate the MBE/WBE or DBE which it has used or intends to use. Breach of this commitment constitutes a breach of the contract.

General Bidder: _____

Signature: _____ Date: _____

LETTER OF INTENT

to be completed by the DBE/MBE/WBE

This form is to be completed by the DBE or MBE and WBE and must be submitted by the General Bidder as part of the Bid Proposal. A separate form must be completed for each MBE, WBE or DBE involved in the project.

Project Title: _____ Project Location: _____

To: _____
(Name of Bidder)

From: _____
(Name of DBE/MBE/WBE) Indicate DBE/MBE/WBE Status

I / we intend to perform work in connection with the above project as (Check One)

- an individual
- a partnership
- a corporation
- a joint venture with: _____
- other (explain): _____

It is understood that if you are awarded the contract, you intend to enter into an agreement to perform the activity described below for the prices indicated.

DBE/MBE/WBE PARTICIPATION:

Description of Activity	Project Start Date	\$ Amount	% of Bid Price
_____	_____	_____	_____

The undersigned certify that they will enter into a formal agreement upon execution of the contract for the above-referenced Project

BIDDER

DBE/MBE / WBE

Authorized Signature _____ Date _____

Authorized Signature _____ Date _____

Address _____

Address _____

Telephone / Fax _____

Telephone / Fax _____

MINORITY / WOMAN BUSINESS ENTERPRISE PROGRAM

CONTRACTOR IDENTIFICATION STATEMENT

Project Name: _____ Project #: _____

Total Bid Price: \$ _____ Bid Date: _____

In accordance with the New Bedford Minority Business Enterprise Program, the undersigned bidder certifies that he/she:

1. is a bona fide Minority/Woman/Disadvantaged Business Enterprise currently certified by the State Office of Minority/Woman Business Assistance (SOMWBA); and such SOMWBA certification has not changed; and in the event of said status changing, it will immediately forward written notification to the City of New Bedford and SOMWBA; and
2. intends to perform certain work (specified by formal bid proposal) under a contract in connection with the above-named project, and that work will not be sublet to any company at any tier; and
3. will comply with the minority/woman workforce ratio and specific affirmative action steps contained in the EEO/AA Contract Provisions and shall obtain from each of its subcontractors a copy of the bidder's certification and submit to the administering agency, prior to the award of such subcontract, regardless of tier, that he/she will comply with the minority/woman workforce ratio and specific affirmative action steps contained in these and the EEO/AA Contract Provisions.

SOMWBA CERTIFICATION CATEGORY: _____

CONTRACTORS NAME: _____
{ } MBE { } WBE { } DBE

ADDRESS: _____

TELEPHONE #: _____ FAX #: _____

REPRESENTATIVE NAME & TITLE: _____

AUTHORIZED SIGNATURE: _____

GENERAL BIDDERS NAME: _____

BIDDERS CERTIFICATION

to be completed by General Contractor & each of its Subcontractors (MBE/WBE/DBE and non-MBE/WBE/DBE)

The undersigned bidder hereby certifies that he/she will comply with the Minority/Woman Workforce Ratio and Specific Affirmative Action Steps contained in the EEO/AA Provisions of this contract, including compliance with the Minority/Woman/Disadvantaged Business Enterprise as required under these contract provisions.

The contractor receiving the award of the contract shall be required to obtain, from each of its subcontractors, regardless of tier, a copy of this Bidder's Certification indicating that it will comply with the Minority/Woman Workforce Ratio and Specific Affirmative Action Steps contained in these EEO/AA Contract Provisions, and submit it to the contracting agency prior to the award of such contract and subcontract.

Name of General Contractor

Name of Subcontractor
{ } MBE { } WBE { } DBE { } Non-MBE/WBE

Signature of Authorized Representative

Signature of Authorized Representative

Name & Title (Printed or Typed)

Name & Title (Printed or Typed)

Date

Date

**MINORITY / WOMAN BUSINESS ENTERPRISES
UNAVAILABILITY CERTIFICATIONS**

to be completed by General Contractor

*(the Bidder shall prepare additional copies of this information form
in the quantity necessary to comply with the bidding requirements)*

I, _____, _____
Name Title

of _____
Contractor Name

certify that on _____, I contacted the below listed MBE/WBE/DBE
Date of Contact
requesting a bid for

Project _____ as an { } MBE, { } WBE or { } DBE for the provision of
{ } Goods & Services or { } Labor to accomplish _____
Subcontract Work Offered to this MBE/WBE/DBE Company

Name of Prospective Sub-Contractor

Address City and State Telephone #

Contact was made by { } Telephone { } In Person

Said sub-contractor was unavailable for work on this project or unable to prepare a bid for the following reason(s):
(check appropriate answer):

{ } MBE/WBE/DBE Firm Declined Job

{ } MBE/WBE/DBE Firm offered to do a job at the price of \$_____, which was not
acceptable because: _____

{ } Other _____

The above information is accurate and complete, to the best of my knowledge and belief. Signed under the pains and
penalties of perjury.

Signature of Authorized Representative, General Contractor Date

MINORITY / WOMAN/DISADVANTAGED BUSINESS ENTERPRISES

REQUEST FOR WAIVER

Upon exhausting all known sources and making every possible effort to meet the minimum requirements for MBE/WBE/DBE participation, the Contractor may seek relief from these requirements by filing this form (completed) NO LATER THAN FIVE (5) working days following the bid opening. Failure to comply with this process shall be cause the bidder to be rejected, thereby rendering the contractor not eligible for award of the contract.

General Information

Project Title: _____ Location: _____

Bid Opening (time/date): _____ Location: _____

Bidder: _____

Mailing Address: _____

Contact Person: _____

Telephone No.: (_____) _____ Ext. _____

Minimum Requirements

The contractor must show that good faith efforts were undertaken to comply with the percentage goals, as specified. The bidder seeking relief must show that such efforts were taken appropriately, in advance of the time set for opening bid proposals, to allow adequate time for response(s) by submitting the following: *(please check all that apply and attach applicable documentation)*

- A. A detailed record of the effort made to contact and negotiate with minority, woman or disadvantaged business enterprises, to include:
- () 1. Names, addresses and telephone numbers of all such companies contacted;
 - () 2. Copies of written notice(s) which were sent to MBE/WBE/DBE potential subcontractors prior to bid opening;
 - () 3. Copies of advertisements prior to bid opening, as appearing in general publications, trade-oriented publications, and applicable minority/women focused media detailing the opportunities for participation.
 - () 4. A detailed statement as to why each subcontractor contacted (a) was not willing to do the job or (b) was not qualified to perform the work as solicited; and
 - () 5. In the case(s) where a negotiated price could not be reached, the bidder should detail what efforts were made to reach an agreement on a competitive price
 - () 6. Contractor certifies that 100% of the project is to be carried out with his/her own workforce. no subcontractors are to be utilized.

- B. The Agency may require the contractor to produce such additional information, as it deems appropriate and may obtain whatever other information it deems necessary to reach a conclusion from any source.
- C. No later than fifteen (15) days after receipt of all necessary information and documentation, a decision will be made in writing to the bidder. If the waiver request is denied, the facts upon which a denial is based will be set forth. A contractor who is dissatisfied with the decision may then appeal that decision to the Equal Opportunity Employment Agency.

Certification

The undersigned herewith certified that the above information and appropriate attachments are true and accurate to the best of my ability, and that I have been authorized to act on behalf of the bidder in this matter.

(authorized original signature)

Date

Submit to: Equal Employment Opportunity
Compliance Officer
133 William Street, Room 208
New Bedford, MA 02740

To be completed by the City of New Bedford's EEO

Bid Date

Date Received by EEO

Initials

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
 MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF MUNICIPAL SERVICES

SCHEDULE OF PARTICIPATION FOR SRF CONSTRUCTION

Project Title: _____ **Project Location:** _____

Disadvantaged Minority Business Enterprise Participation in the SRF Loan Work

Name & Address of D/MBE	Nature of Participation	Dollar Value of Participation
1.		
2.		
3.		
Total D/MBE Commitment:		\$
Percentage D/MBE Participation = (Total D/MBE Commitment) / (Bid Price) =		%

Disadvantaged Women Business Enterprise Participation in the SRF Loan Work

Name & Address of D/WBE	Nature of Participation	Dollar Value of Participation
1.		
2.		
3.		
Total D/WBE Commitment:		\$
Percentage D/WBE Participation = (Total D/WBE Commitment) / (Bid Price) =		%

The Bidder agrees to furnish implementation reports as required by MassDEP to indicate the D/MBEs and D/WBE(s) which it has used or intends to use. Breach of this commitment constitutes a breach of the contract.

Name of Bidder: _____

Date: _____ By: _____
Signature

NOTE: Participation of a DBE may be counted in only their certified category; the same dollar participation cannot be used in computing the percentage of D/MBE participation and again of D/WBE participation.

DBE CERTIFICATION OF UNITED STATES CITIZENSHIP

For the SRF program, under the EPA Disadvantage Business Enterprise (DBE) Rule, a DBE must be owned or controlled by a socially and economically disadvantaged person that is also a **citizen of the United States** (See 40 CFR 33.202). “Ownership” is defined at 13 CFR 124.105 and “control” is defined at 13 CFR 124.106.

DBEs are certified for the SRF program through the Supplier Diversity Office using the federal Department of Transportation (DOT) DBE rules. EPA allows the use of DBEs certified under the DOT rules as long as they are also United States citizens. To ensure compliance with the EPA rule, MassDEP must verify United States citizenship through the completion of the following form for each DBE used on the project.

SRF Project Number _____

Contract Number _____

Contract Title _____

DBE Subcontractor _____

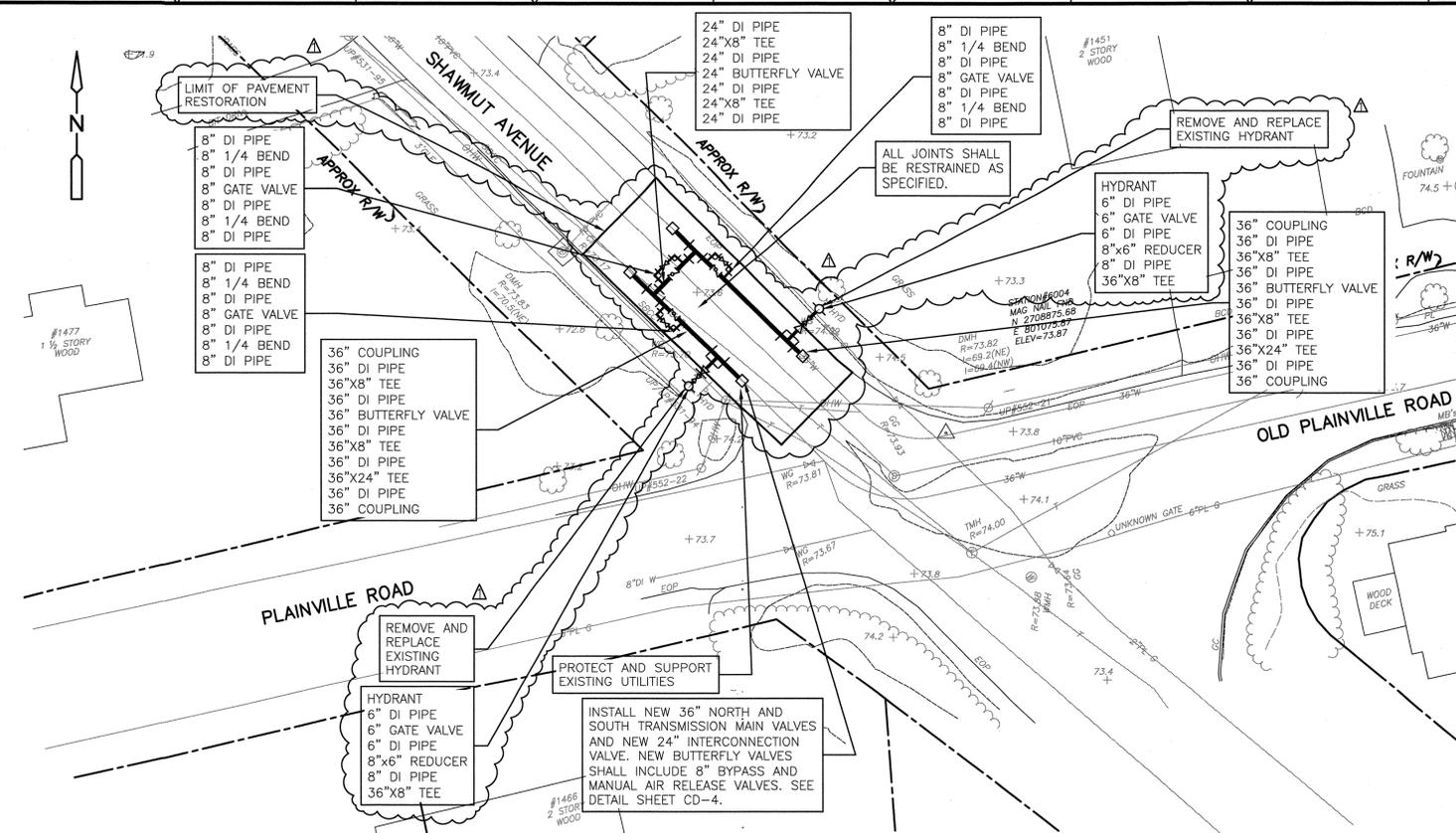
The undersigned, on behalf of the above named DBE subcontractor, hereby certifies that the DBE firm is either owned or controlled by a person or persons that are citizens of the United States.

Printed Name and Title of DBE Signatory

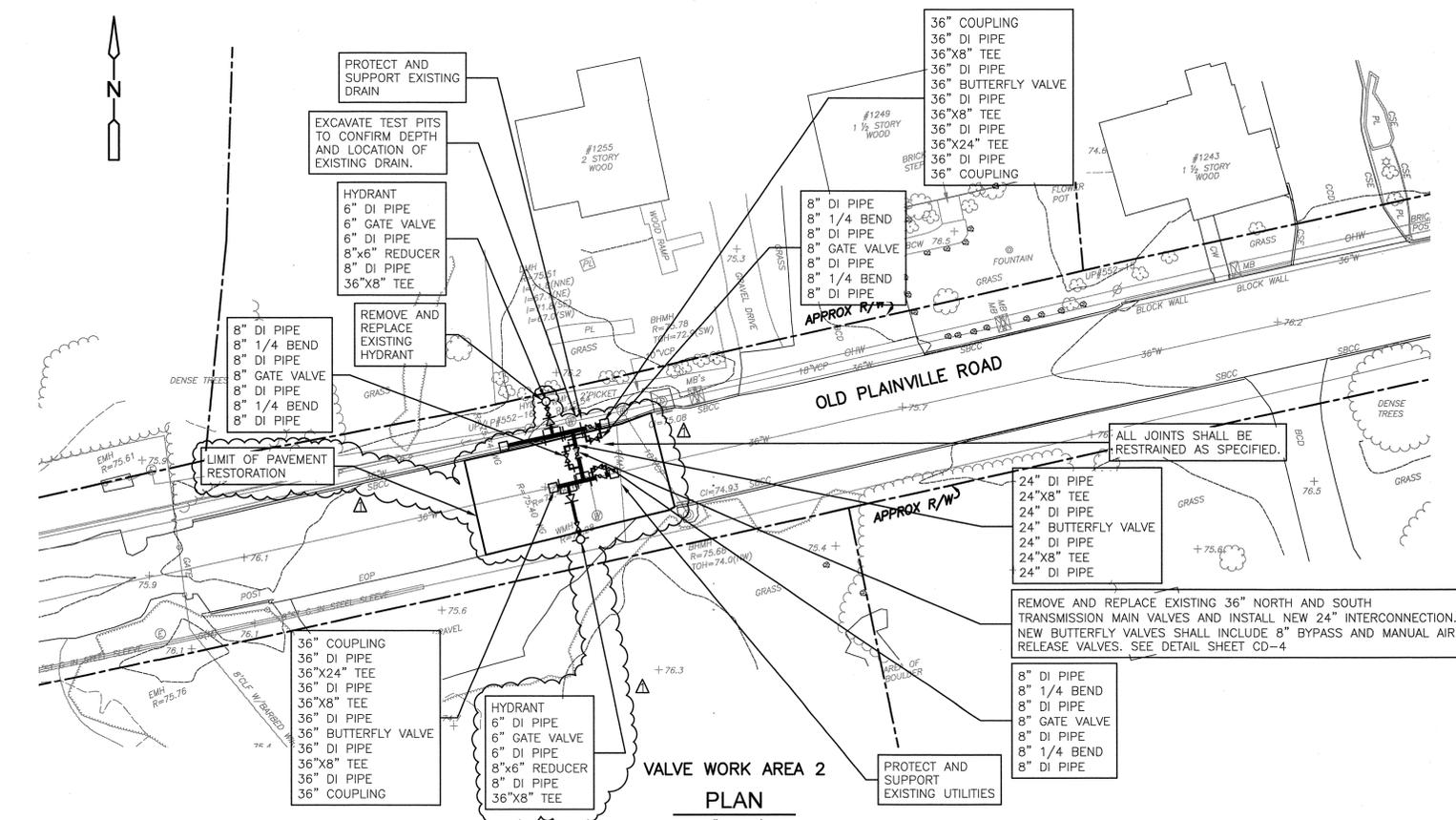
DBE Signature

Date

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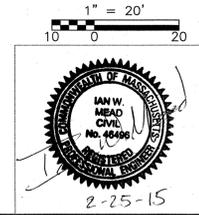


VALVE WORK AREA 1
 PLAN
 1" = 20'



VALVE WORK AREA 2
 PLAN
 1" = 20'

- NOTES:
- PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL EXCAVATE TEST PITS AS NEEDED TO CONFIRM ALL DIMENSIONS AND MEASUREMENTS NEEDED FOR FABRICATION AND ORDERING OF NEW MATERIALS.
 - ALL PIPE, FITTING AND VALVE JOINTS SHALL BE RESTRAINED.



REV. NO.	DATE	DRWN	CHKD	REMARKS
1	02/15	J.C.	R.H.	REVISED PER ADDEDNDUM NO. 1

DESIGNED BY: R. HASSOUN
 DRAWN BY: J. CABRERA
 SHEET CHK'D BY: M. GALLANT
 CROSS CHK'D BY: J. KEANEY
 APPROVED BY: I. MEAD
 DATE: FEBRUARY 2015

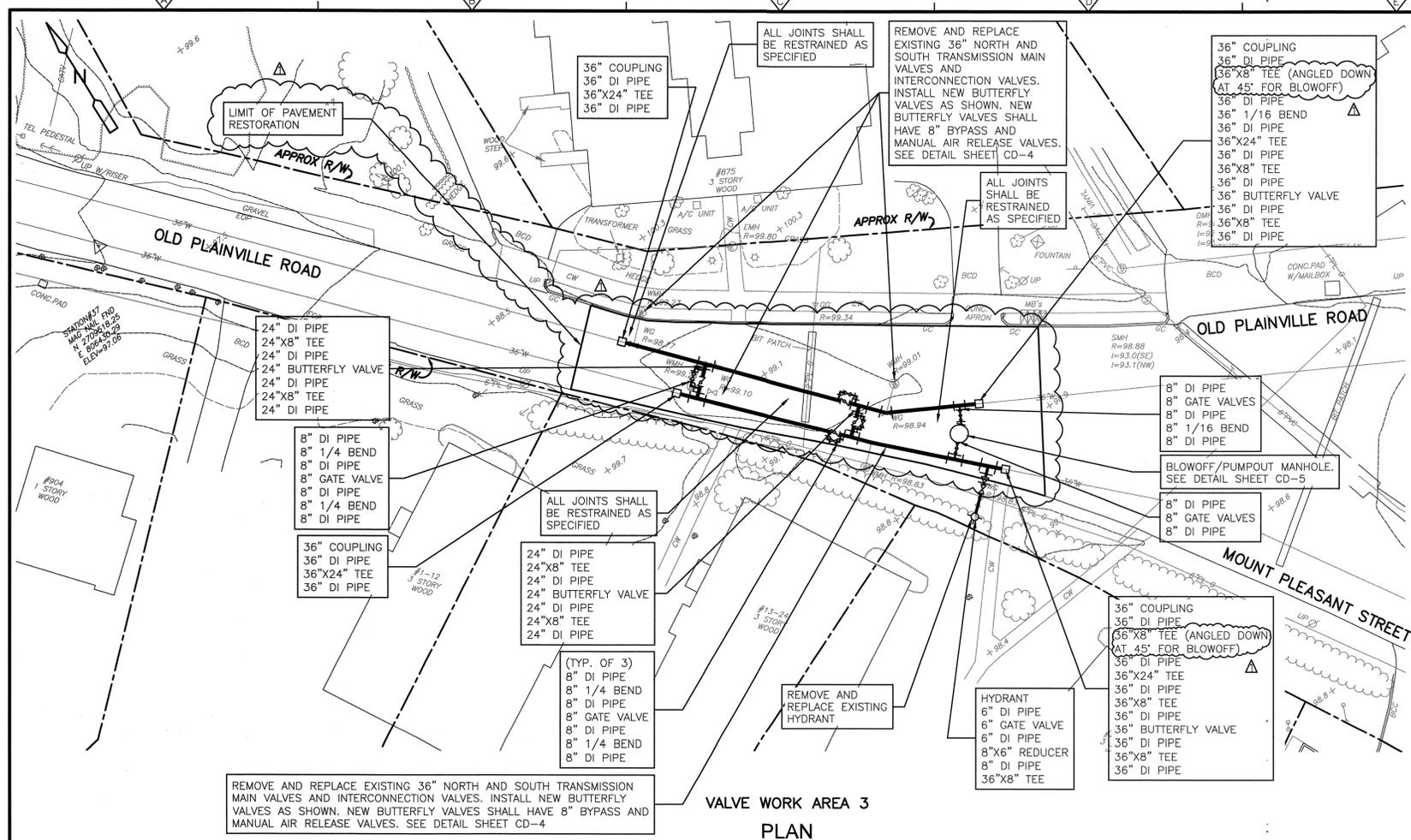


CITY OF NEW BEDFORD, MASSACHUSETTS
 WATER SYSTEM IMPROVEMENTS
 TRANSMISSION MAIN REINFORCEMENT PROGRAM
 PART II - 36-INCH TRANSMISSION MAINS

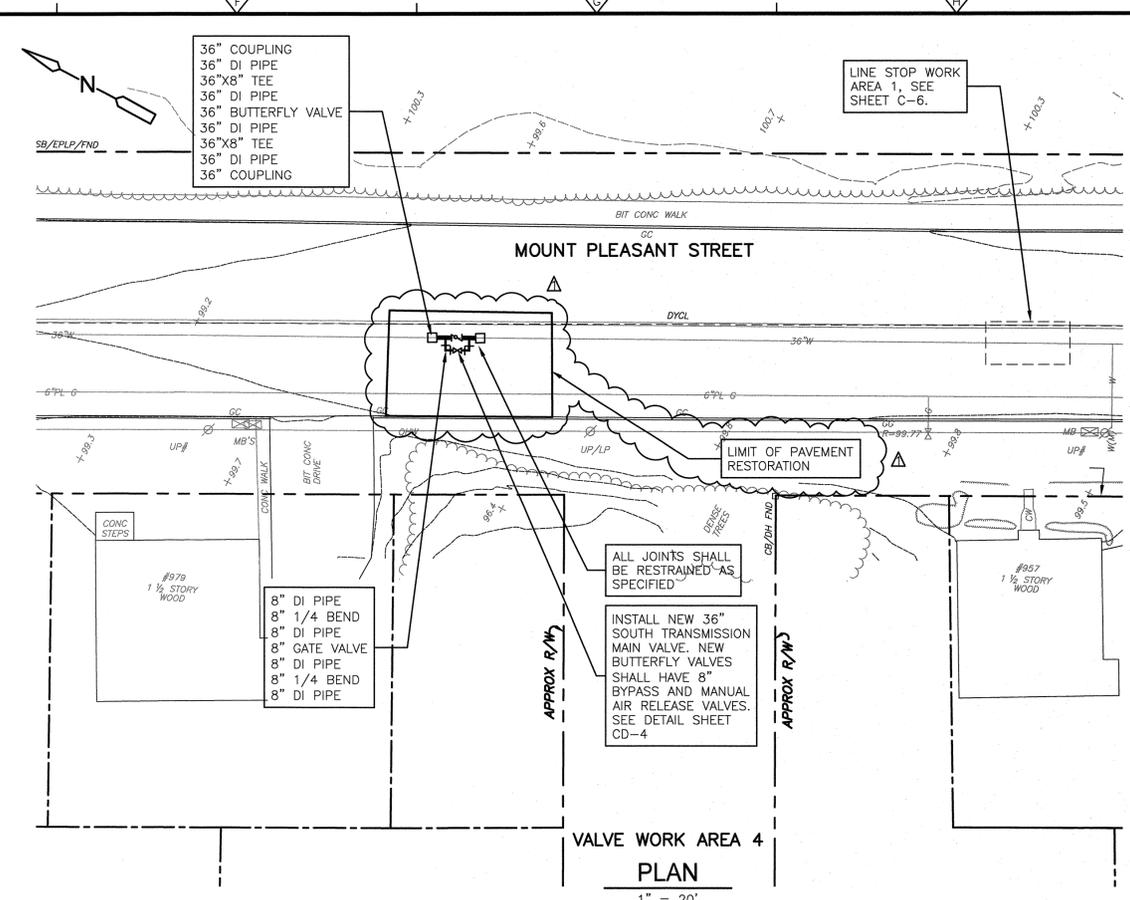
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 Accession No: 0309-P-4541

PROJECT NO. 0309-104084
 FILE NAME: CSTPL001
 SHEET NO. C-1
 Accession No: 0309-P-4541

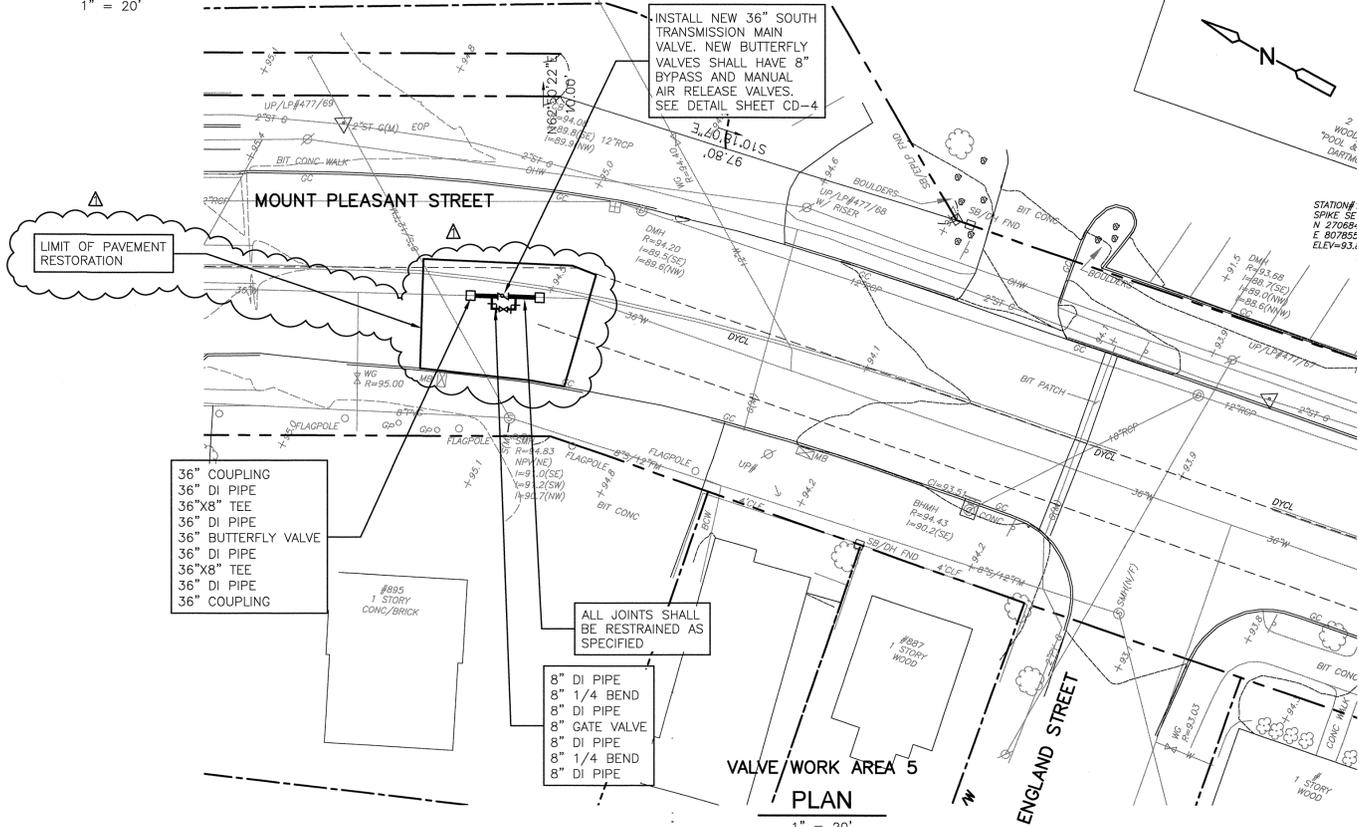
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VALVE WORK AREA 3
PLAN
 1" = 20'



VALVE WORK AREA 4
PLAN
 1" = 20'



VALVE WORK AREA 5
PLAN
 1" = 20'

- NOTES:**
1. PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL EXCAVATE TEST PITS AS NEEDED TO CONFIRM ALL DIMENSIONS AND MEASUREMENTS NEEDED FOR FABRICATION AND ORDERING OF NEW MATERIALS.
 2. ALL PIPE, FITTING AND VALVE JOINTS SHALL BE RESTRAINED.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	02/15	J.C.	R.H.	REVISED PER ADDENDUM NO. 1

DESIGNED BY: R. HASSOUN
 DRAWN BY: J. CABRERA
 SHEET CHK'D BY: M. GALLANT
 CROSS CHK'D BY: J. KEANEY
 APPROVED BY: I. MEAD
 DATE: FEBRUARY 2015

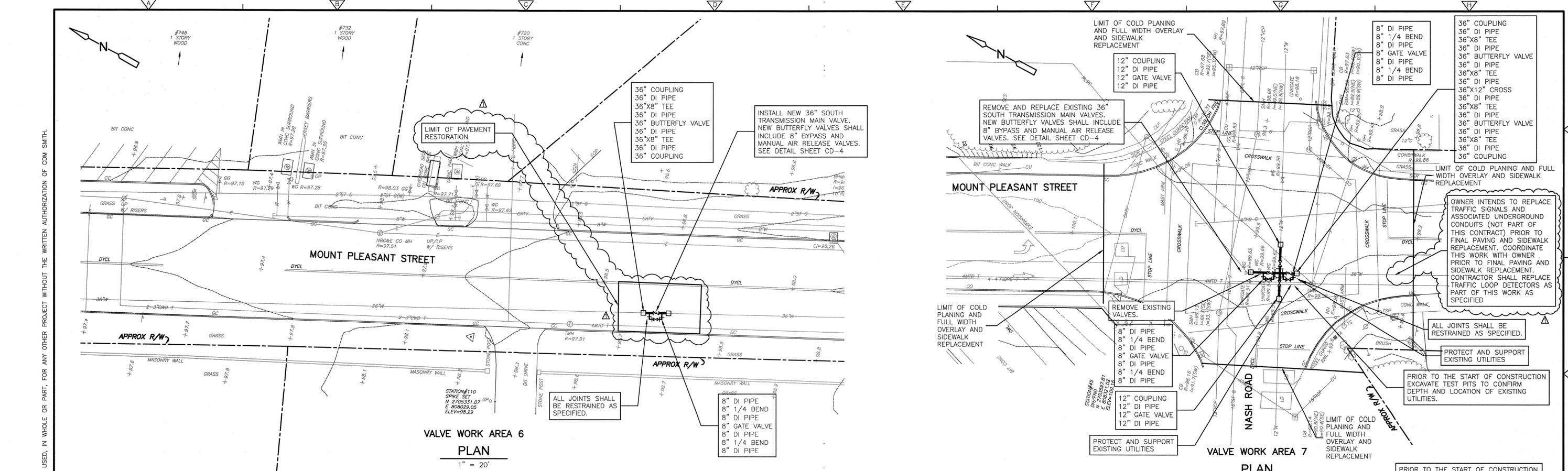


CITY OF NEW BEDFORD, MASSACHUSETTS
 WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
PART II - 36-INCH TRANSMISSION MAINS

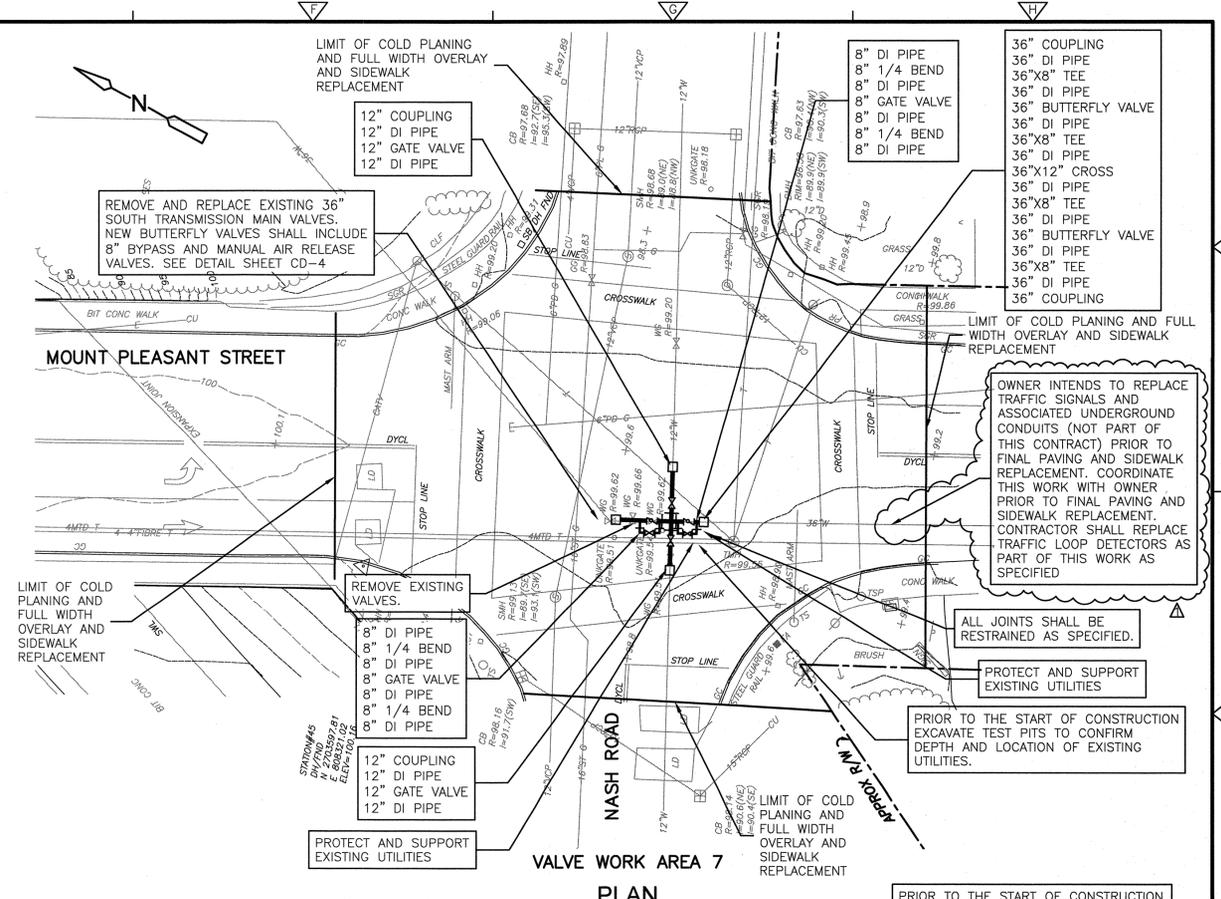
VALVE WORK AREAS II

1" = 20'

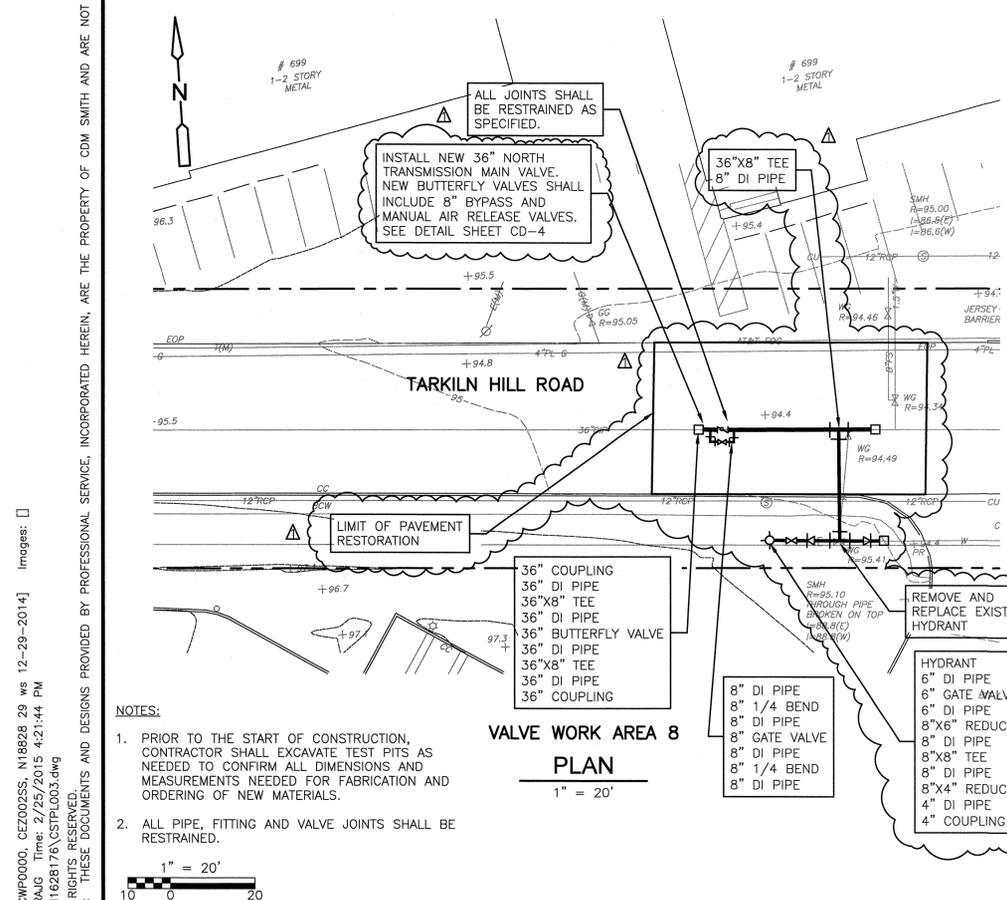
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 FILE NAME: CSTPL002
 SHEET NO. **C-2**
 Accession No: 0309-P-4542



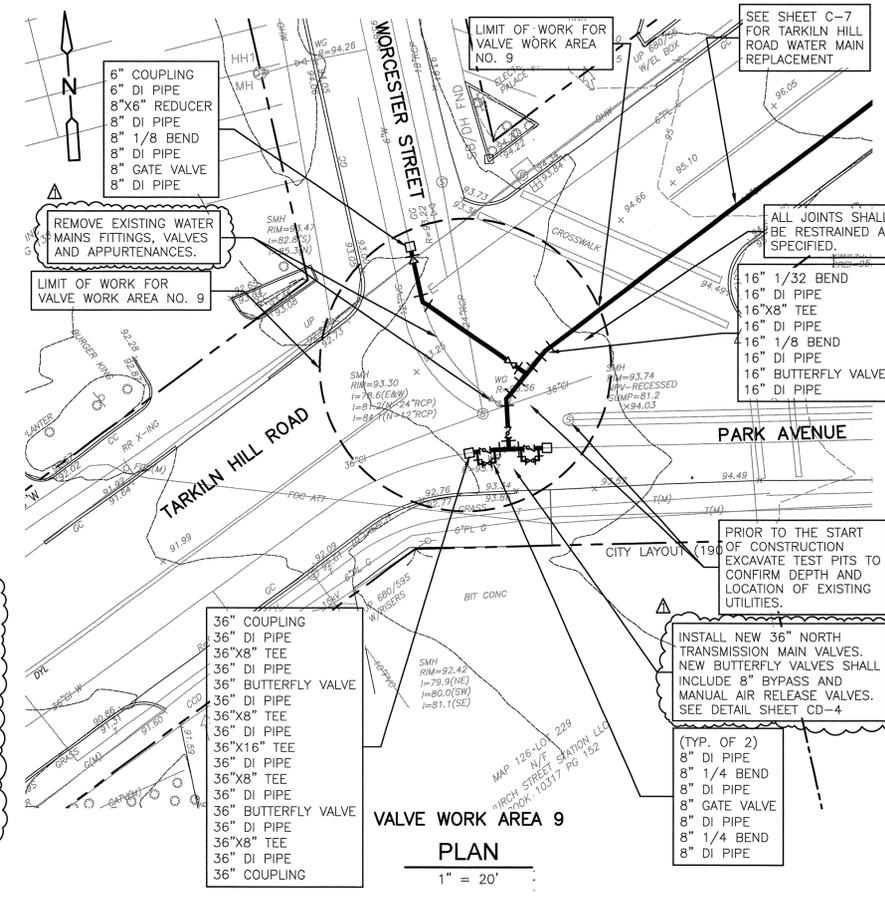
VALVE WORK AREA 6
PLAN
1" = 20'



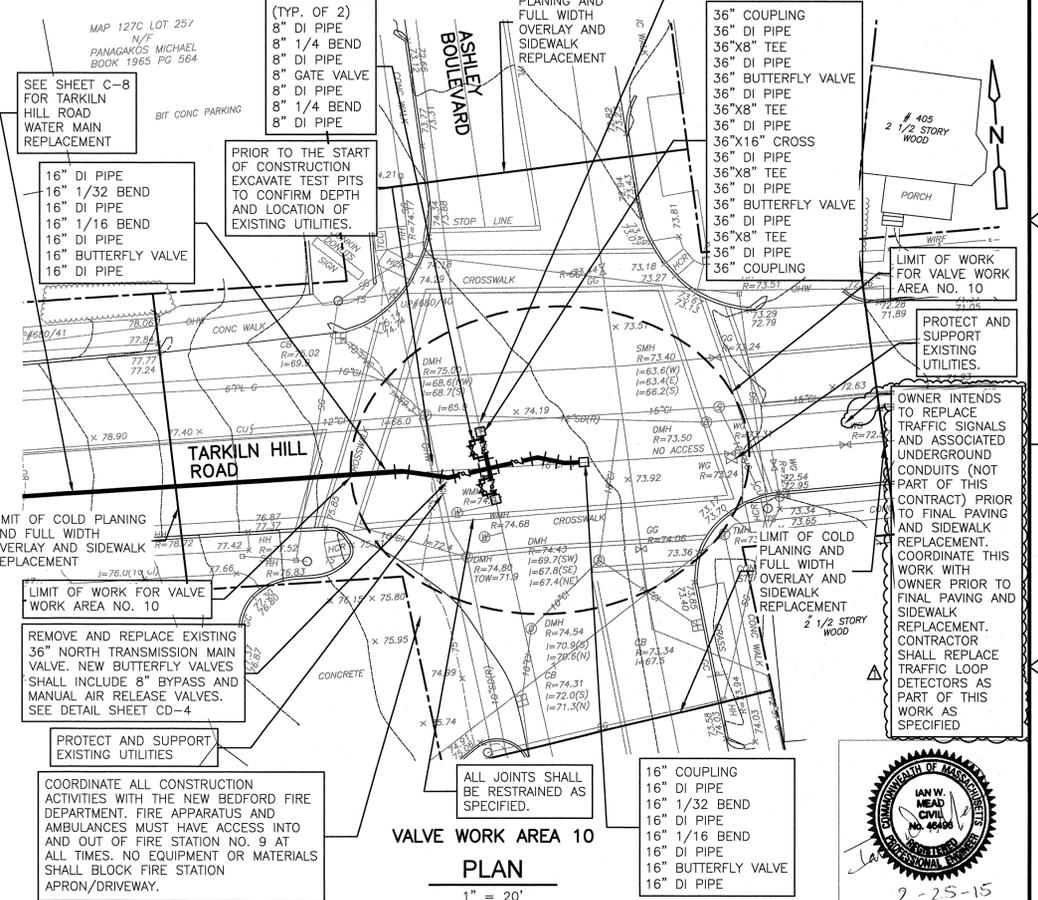
VALVE WORK AREA 7
PLAN
1" = 20'



VALVE WORK AREA 8
PLAN
1" = 20'



VALVE WORK AREA 9
PLAN
1" = 20'



VALVE WORK AREA 10
PLAN
1" = 20'

- NOTES:
- PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL EXCAVATE TEST PITS AS NEEDED TO CONFIRM ALL DIMENSIONS AND MEASUREMENTS NEEDED FOR FABRICATION AND ORDERING OF NEW MATERIALS.
 - ALL PIPE, FITTING AND VALVE JOINTS SHALL BE RESTRAINED.

XREFs: [CDMS_2436, CWP0000, CEZ00255, N18928 29 ws 12-29-2014] Images: []
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DESIGNED BY: R. HASSOUN
 DRAWN BY: J. CABRERA
 SHEET CHK'D BY: M. GALLANT
 CROSS CHK'D BY: J. KEANEY
 APPROVED BY: I. MEAD
 DATE: FEBRUARY 2015

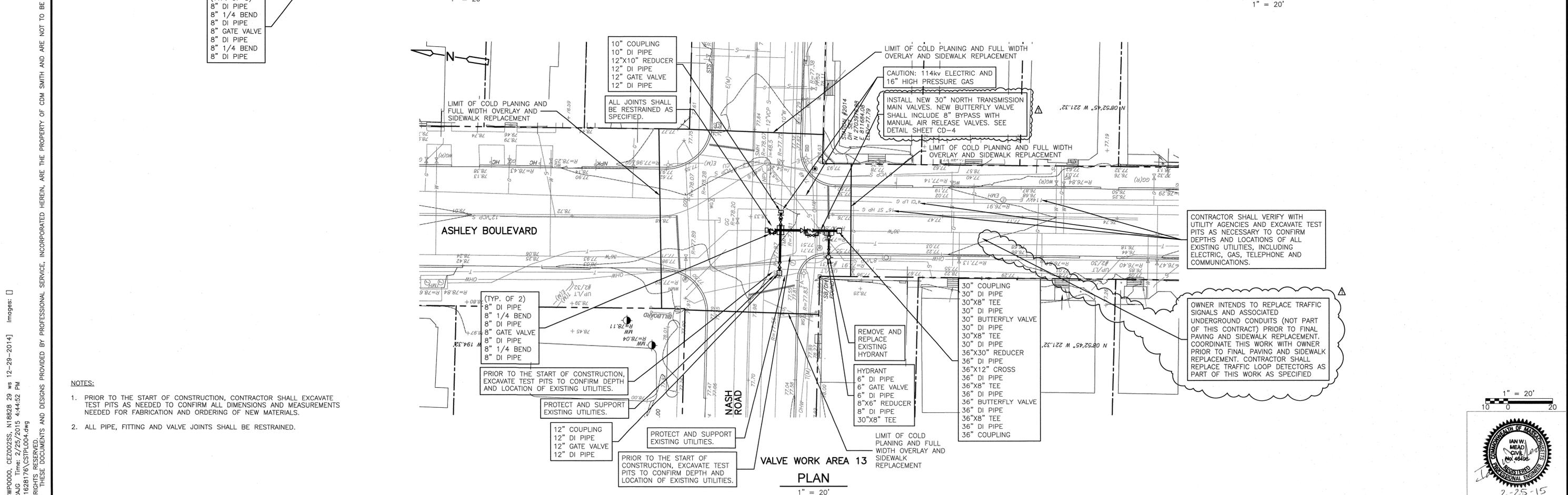
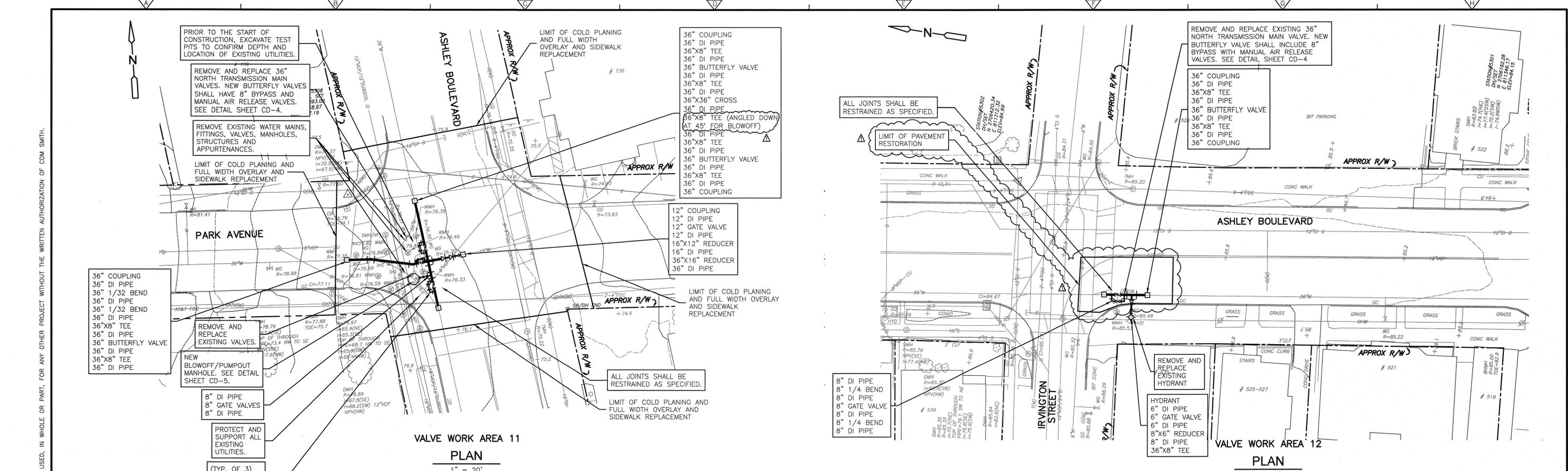


CITY OF NEW BEDFORD, MASSACHUSETTS
 WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
 PART II - 36-INCH TRANSMISSION MAINS

VALVE WORK AREAS III



PROJECT NO. 0309-104084
 FILE NAME: CDSTPL003
 SHEET NO. **C-3**
 Accession No 0309-P-4543



NOTES:

- PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL EXCAVATE TEST PITS AS NEEDED TO CONFIRM ALL DIMENSIONS AND MEASUREMENTS NEEDED FOR FABRICATION AND ORDERING OF NEW MATERIALS.
- ALL PIPE, FITTING AND VALVE JOINTS SHALL BE RESTRAINED.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	02/15	J.C.	R.H.	REVISED PER ADDENDUM NO. 1

DESIGNED BY: R. HASSOUN
 DRAWN BY: J. CABRERA
 SHEET CHK'D BY: M. GALLANT
 CROSS CHK'D BY: J. KEANEY
 APPROVED BY: I. MEAD
 DATE: FEBRUARY 2015

CDM Smith
 260 West Exchange Street, Suite 300
 Providence, RI 02903
 Tel: (401) 751-5300

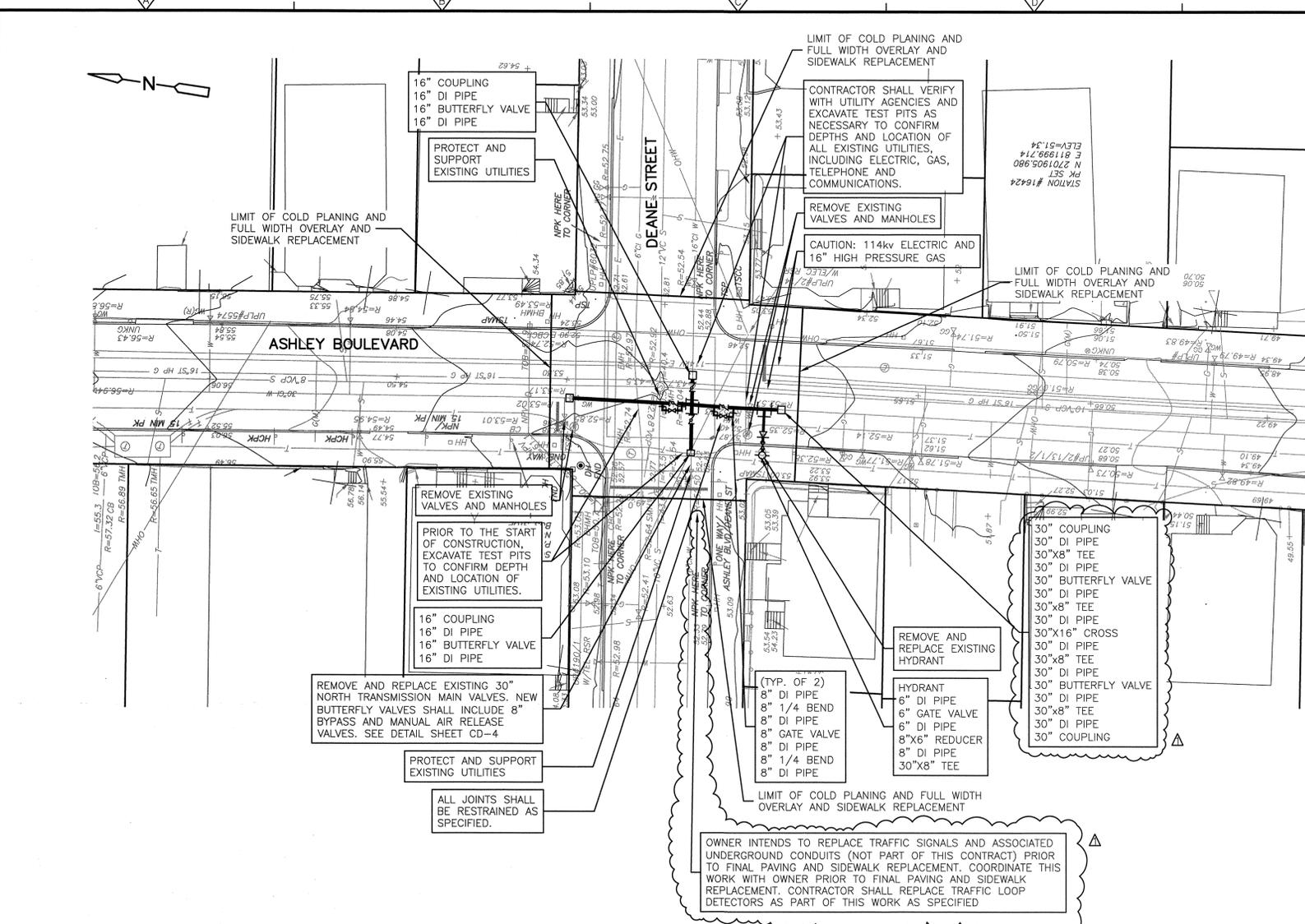
CITY OF NEW BEDFORD, MASSACHUSETTS
 WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
 PART II - 36-INCH TRANSMISSION MAINS

VALVE WORK AREAS IV

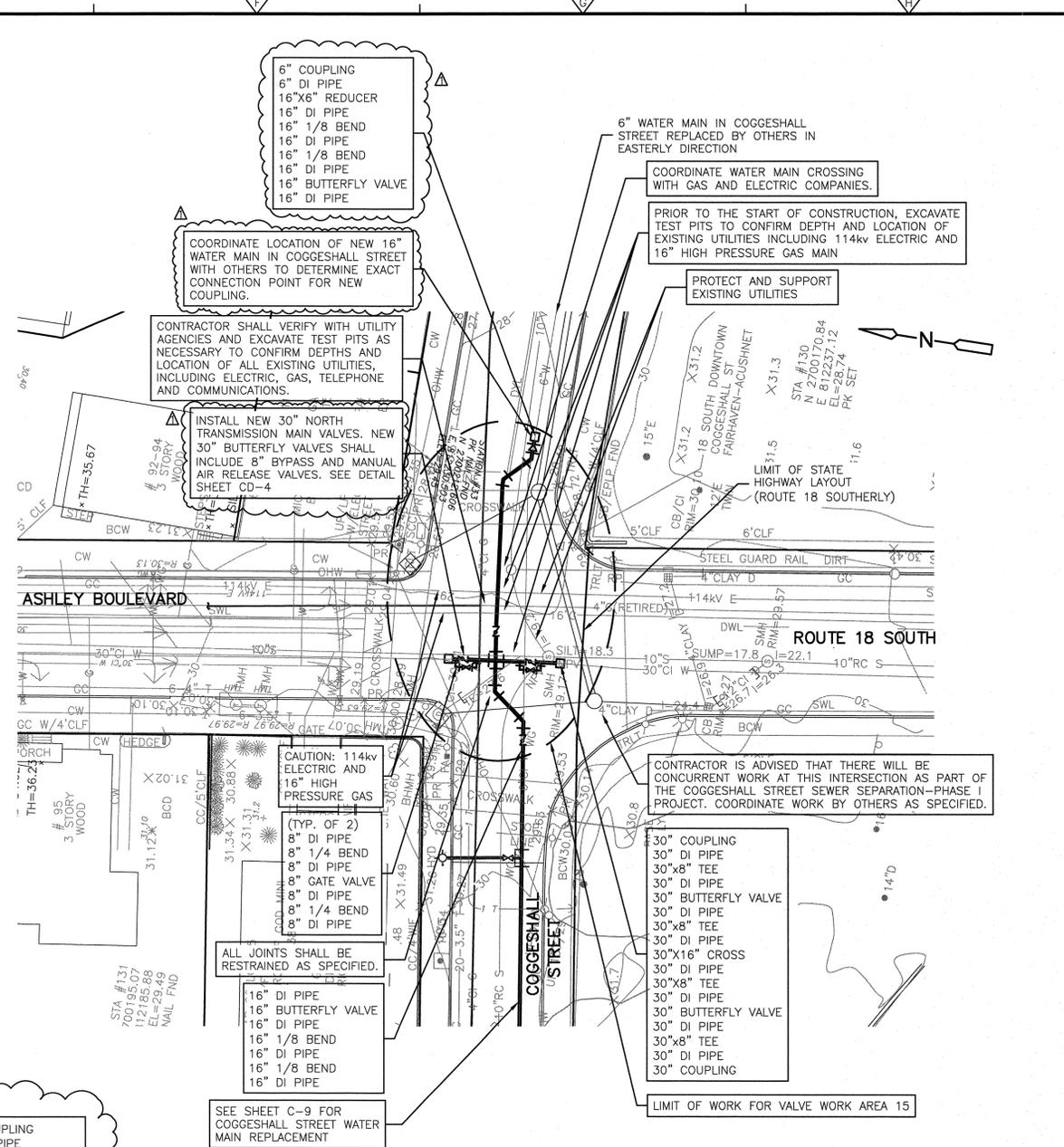
PROJECT NO. 0309-104084
 FILE NAME: CSTPL004
 SHEET NO. **C-4**
 Accession No: 0309-P-4544

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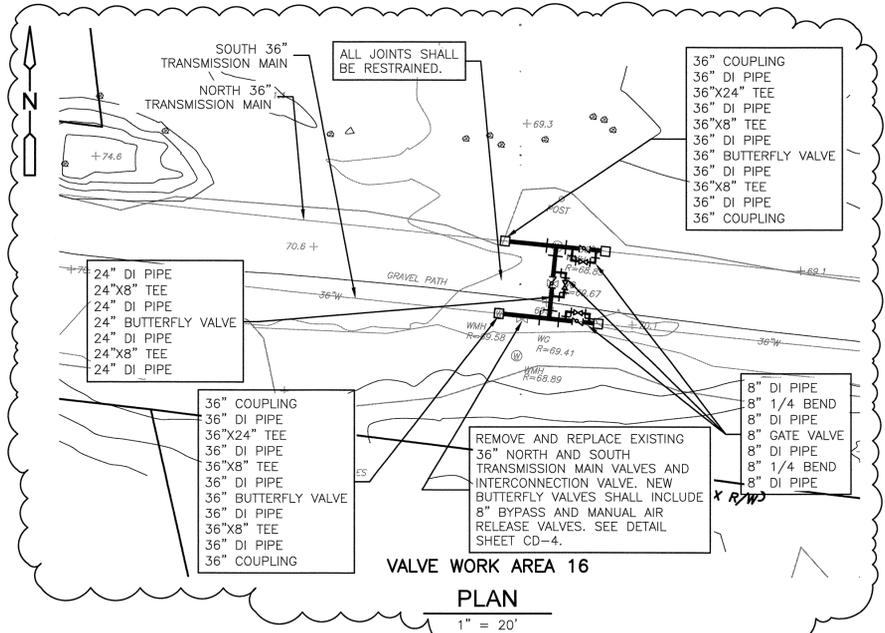
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VALVE WORK AREA 14
 PLAN
 1" = 20'



VALVE WORK AREA 15
 PLAN
 1" = 20'



VALVE WORK AREA 16
 PLAN
 1" = 20'

- NOTES:**
- PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL EXCAVATE TEST PITS AS NEEDED TO CONFIRM ALL DIMENSIONS AND MEASUREMENTS NEEDED FOR FABRICATION AND ORDERING OF NEW MATERIALS.
 - ALL PIPE, FITTING AND VALVE JOINTS SHALL BE RESTRAINED.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	02/15	J.C.	R.H.	REVISED PER ADDENDUM NO. 1

DESIGNED BY: R. HASSOUN
 DRAWN BY: J. CABRERA
 SHEET CHK'D BY: M. GALLANT
 CROSS CHK'D BY: J. KEANEY
 APPROVED BY: I. MEAD
 DATE: FEBRUARY 2015

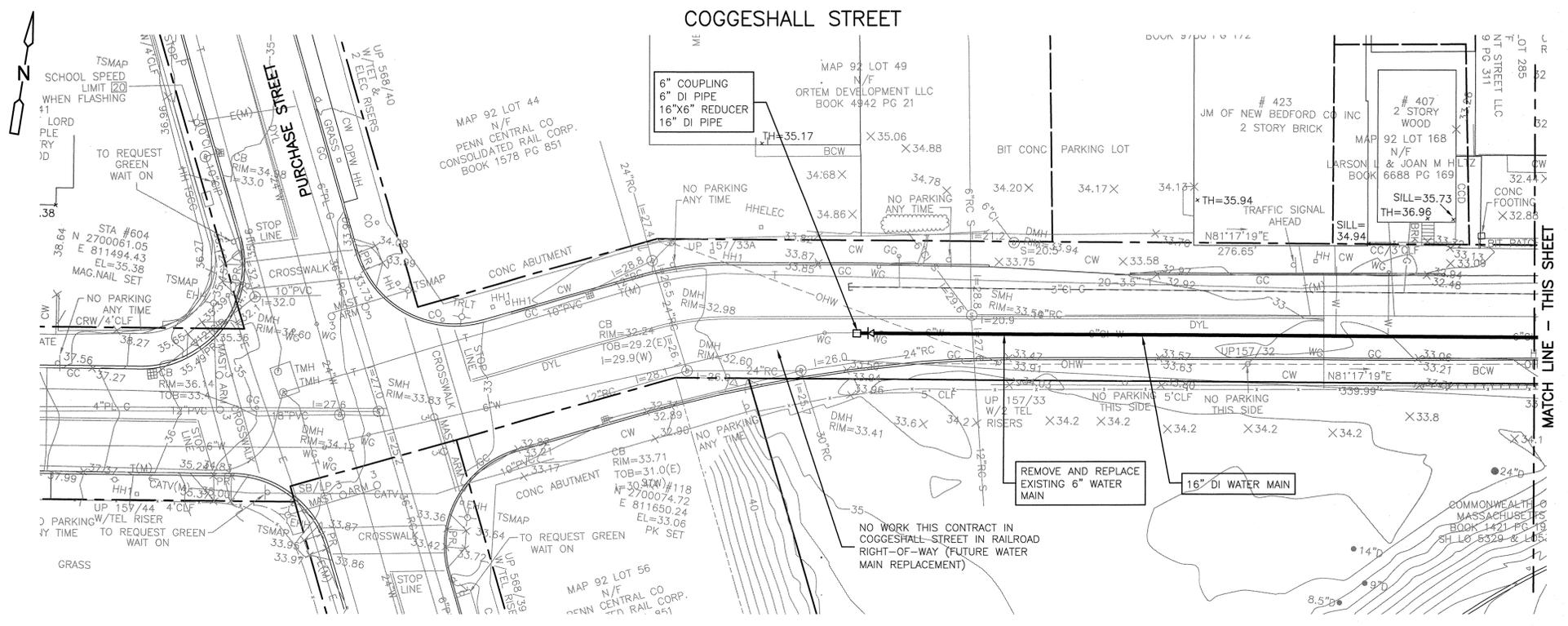


CITY OF NEW BEDFORD, MASSACHUSETTS
 WATER SYSTEM IMPROVEMENTS
 TRANSMISSION MAIN REINFORCEMENT PROGRAM
 PART II - 36-INCH TRANSMISSION MAINS

VALVE WORK AREAS V

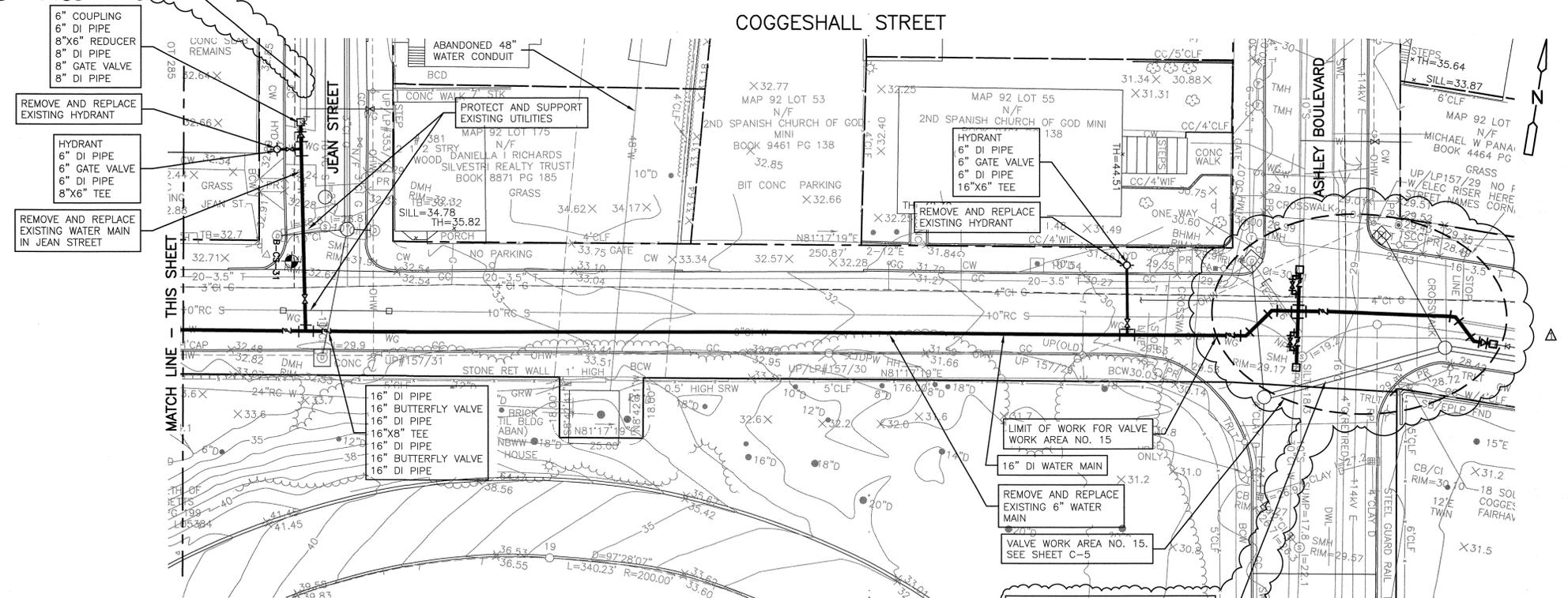
1" = 20'

 PROJECT NO. 0309-104084
 FILE NAME: CSTPL005
 SHEET NO. C-5
 Accession No. 0309-P-4545



PLAN
1" = 20'

CONTRACTOR IS ADVISED THAT THERE WILL BE CONCURRENT WORK IN JEAN STREET AS PART OF THE COGGESHALL STREET SEWER SEPARATION-PHASE I PROJECT. COORDINATE WORK BY OTHERS AS SPECIFIED



PLAN
1" = 20'

NOTE:
1. ALL EXISTING LEAD SERVICE CONNECTIONS SHALL BE REPLACED BY THE CONTRACTOR IF ENCOUNTERED DURING CONSTRUCTION, WHETHER OR NOT THEY ARE SHOWN ON THE DRAWINGS. EXISTING COPPER SERVICE CONNECTIONS ARE TO REMAIN AND MUST BE RECONNECTED TO NEW WATER MAINS BY THE CONTRACTOR. LEAD SERVICES SHALL BE REPLACED FROM THE WATER MAIN TO THE PROPERTY LINE WITH A NEW CORPORATION STOP, COPPER SERVICE TUBING, CURB STOP AND ADAPTERS AND FITTINGS OF THE NECESSARY SIZE REQUIRED. EXISTING COPPER SERVICE CONNECTIONS SHALL BE RECONNECTED TO NEW WATER MAINS WITH A NEW CORPORATION STOP, COPPER SERVICE TUBING AND ADAPTERS AND FITTINGS OF THE NECESSARY SIZE REQUIRED.

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REV. NO.	DATE	DRWN	CHKD	REMARKS
1	02/15	J.C.	R.H.	REVISED PER ADDENDUM NO. 1

DESIGNED BY: R. HASSOUN
 DRAWN BY: J. CABRERA
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CITY OF NEW BEDFORD, MASSACHUSETTS
 WATER SYSTEM IMPROVEMENTS
TRANSMISSION MAIN REINFORCEMENT PROGRAM
 PART II - 36-INCH TRANSMISSION MAINS

COGGESHALL STREET
 SHEET NO. **C-9**

PROJECT NO. 0309-104084
 FILE NAME: CSTPL009
 SHEET NO. C-9
 Accession No: 0309-P-4549

