

VALVE 5610-02 INSTALLATION

NATIONAL GRID GAS ENGINEERING

GENERAL NOTES:

- 1) ALL EXISTING UTILITIES NOTED ON DRAWINGS ARE APPROXIMATE LOCATIONS AND ARE TO BE LOCATED AND MARKED PRIOR TO THE START OF CONSTRUCTION. ANY TEST HOLES REQUIRED FOR EXACT LOCATION ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2) CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND SUPPORTING EXISTING UTILITIES AND STRUCTURES.
- 3) CONTRACTOR SHALL DIG TEST HOLES AND LOCATE PIPING AT TIE-IN POINTS TO DETERMINE/VERIFY THE REQUIRED TIE-IN FABRICATION MATERIALS AND TO ESTABLISH PIPE ALIGNMENT.
- 4) CONTRACTOR WILL BE RESPONSIBLE FOR EXPOSING PIPE IN ORDER THAT NATIONAL GRID CAN LOCATE/INSTALL FITTINGS FOR PURPOSES OF TIE-INS/RETIREMENTS.
- 5) INSTALL GAS MAINS AT 3 FT. OF COVER FROM FINISHED GRADE UNLESS OTHERWISE NOTED.
- 6)- THE CONTRACTOR SHALL VERIFY THE LAYOUT CAN BE CONSTRUCTED AS SHOWN ON ALL N-GRID AND VENDOR EQUIPMENT DRAWINGS. IF CONFLICTS ARE FOUND, CHANGES MUST BE APPROVED BY A N-GRID FIELD REP. AND GAS ENGINEERING PRIOR TO CONSTRUCTION.
- 7) FABRICATE PER FIELD CONDITIONS AND VERIFY ALL DIMENSIONS IN FIELD.
- 8) DEFLECT GAS MAIN UNDER OR OVER EXISTING UTILITIES AS REQUIRED (IE: FITTINGS), WHILE MAINTAINING DESIGN DEPTH AND MINIMUM CLEARANCE PER STD ENG04001 (DISTR./ENG03001 (PIPELINE).
- 9) VERIFY CATHODIC PROTECTION AT ALL TIE-INS TO EXISTING STEEL FACILITIES. NOTIFY METER & TEST IF PIPE TO SOIL READINGS ARE UNACCEPTABLE AND INSTALL ANODES AND/OR TEST STATIONS AS INDICATED ON DRAWINGS AND PER STD COR01000.
- 10) ALL UNDERGROUND PIPE AND FITTINGS SHALL BE PROTECTED PER STD. COR02001/030031-CS.
- 11) REMOVAL OR ABANDONMENT OF GAS FACILITIES SHALL BE PERFORMED IN ACCORDANCE WITH SHE02001
- 12) CONTRACTOR IS RESPONSIBLE FOR RESTORATION IN KIND.
- 13) ALL WELDING TO BE DONE IN ACCORDANCE WITH US GDx DOCUMENT MANUAL WELDING POLICY CNST05002.
ALL WELDS ON HIGH PRESSURE (125 or greater) PIPING 2" AND LARGER SHALL BE X-RAYED
- 14) BAG, PURGE AND TEST POINTS SHALL BE INSTALLED PER STD. CNST3002.
- 15) CORROSION PROTECTION:
CORROSION WIRE PER STD COR04004
TEST STATION TYPES PER STD COR04003/COR04001/030026-CS
- 16) REMOVAL AND HANDLING OF COAL TAR WRAPPED PIPE SHALL BE DONE IN ACCORDANCE WITH GDx F-617
- 17) CONTRACTOR IS RESPONSIBLE TO PLAN PRESSURE TESTING AND NOTIFY NG OF ADDITIONAL PIPING, BLIND FLANGES AND FITTINGS REQUIRED.
- 18) CONTRACTOR SHALL USE ALL NECESSARY MEANS TO ENSURE SAFE AND PROPER TRAFFIC FLOW DURING CONSTRUCTION IN ACCORDANCE WITH NATIONAL GRID AND NYS DOT STANDARDS, INCLUDING NYS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE CODE OF FEDERAL REGULATIONS TITLE 29, PART 1926 SUBPART G-SIGNS, SIGNALS AND BARRICADES. (GDx Q-1702)
- 19) ALL CAST IN PLACE CONCRETE SHALL BE 4000 PSI PER ACI-318.
- 20) FINAL TUBING CONNECTIONS BY NATIONAL GRID.
- 21) ALL UNDERGROUND PIPE AND FITTINGS SHALL BE PROTECTED WITH 3M-323 EPOXY BRUSH GRADE (25mls). INSTALL PER MANUFACTURERS REQUIREMENTS. THE CONTRACTOR SHALL SANDBLAST PIPE TO A SSPC10 LEVEL OF CLEANLINESS.
- 22) SAFETY WORKING CLEARANCES ON ELECTRIC RIGHT OF WAY, SEE SECTION 31.41 PIPELINE HIGH VOLTAGE PROTECTION DURING CONSTRUCTION, SECTION 31.3.
- 23) ALL PIPE SHALL BE HOLIDAY TESTED PER STANDARD COR03001
- 24) ALL EXPOSED PIPE SHALL BE COATED PER THE FOLLOWING: (BEFORE GOING INTO SERVICE)**
 - A 1.5 - 3.5 mil SURFACE PROFILE USING MEDIUM COARSE GARNET.
 - INTERMEDIATE COLD TEMPERATURE EPOXY CARBOGUARD 635
 - PIGMENTED FINISH CARBOTHANE 134HG
 - HIGH GLOSS LEVEL III ACRYLIC POLYURETHANE CARBOTHANE 130**ALL FLANGES SHALL BE SEALED (Install after Line is In-Service)**

PRESSURE TEST

PL-56 960 psig HYDRO
MIN. 1440 psig HYDRO

DESIGN CONDITIONS

PL-56 960 psig ORIGINAL
CURRENT MAOP 650 psig

GENERAL SCOPE OF PROJECT:

- 1) REMOVE & RETIRE A SECTION OF PL-56 FOR THE INSTALLATION OF V-5610-02.
- 2) INSTALL NEW V-5610-02 VALVE WITH BLOWDOWN VALVES AND FOUNDATIONS TDW INSTALLATION & TESTING
- 3) INSTALL FENCING WITH GROUNDING GRID & GATES
- 4) PERFORM SITE WORK INCLUDING GENERAL GRADING AND INSTALLATION OF DRIVEWAY.

ACCOUNT NUMBER

90000151902 VALVE 5610-02 INSTALLATION

FOR CONSTRUCTION

CONTACTS:

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| PIPELINE 56 | DATE | 04/18/2015 |
| V-5610-02 ROV | REV | 12.2-14-G1 |
| GENERAL NOTES | GROUP | D-66234-C |
| TOWN OF WILNA JEFFERSON CO. | | |

| REFERENCE DESCRIPTION | DRAWING NUMBER | DATE | DESCRIPTION OF ISSUE OR REVISION | DR. | CC. | APP. | DATE | DESCRIPTION OF ISSUE OR REVISION | DR. | CC. | APP. | DATE |
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