

**SITE PLAN**  
SCALE: 1" = 20'

**GENERAL NOTES**

1. SURVEY PROVIDED BY VTTRANS.
2. EXPLORATORY EXCAVATION IS REQUIRED TO LOCATE UNDERGROUND UTILITIES. CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION TO LOCATE EXISTING WATER MAIN AT POINT OF CONNECTIONS TO NEW MAIN. CONTRACTOR SHALL USE EXTREME CAUTION TO PREVENT DAMAGE TO EXISTING UTILITIES. CONTRACTOR SHALL COORDINATE WITH DIG SAFE (1-888-DIG SAFE) A MINIMUM OF 72 HOURS PRIOR TO EXCAVATION. THE EXISTING WATER MAIN IS OWNED BY THE CITY OF BARRE.
3. ALL WORK TO BE DONE SHALL BE IN PUBLIC RIGHT-OF-WAY OR EASEMENT AREAS. RIGHT-OF-WAY INFORMATION PROVIDED BY VTTRANS.
4. LISTING OF ADAPTERS, FITTINGS, NIPPLES, ETC. IS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. ADDITIONAL MATERIAL MAY BE REQUIRED.
5. SOLID SLEEVE COUPLINGS OR TRANSITION COUPLINGS MAY ALSO BE REQUIRED FOR CONNECTION TO EXISTING MAINS. THESE COUPLINGS ARE INCLUDED IN THIS WORK AND NOT PAID FOR INDIVIDUALLY.
6. MINIMUM VERTICAL CLEARANCE BETWEEN NEW WATER MAINS AND ALL EXISTING UTILITIES, EXCEPT SEWERS AND STORM DRAINS TO BE SIX (6) INCHES AT CROSSING LOCATIONS. FOR SEWERS AND STORM DRAINS SEE NOTES AND DETAILS ON SHEET 2 OF 2.
7. ALL BURIED FITTINGS MUST UTILIZE CONCRETE THRUST BLOCK RESTRAINTS. REFER TO THRUST BLOCK DETAILS, HYDRANT ASSEMBLY DETAIL, AND TRENCH DETAIL SHOWN ON SHEET 2 OF 2.
8. MECHANICAL JOINT RESTRAINTS AND ROD TIE BACKS SHALL BE USED WHERE WATER MAIN VALVES WILL BE SUBJECTED TO SERVICE PRESSURES ON ONE SIDE BEFORE BEING FULLY INCORPORATED INTO THE DISTRIBUTION SYSTEM. PUSH-ON JOINTS SHALL BE PROPERLY RESTRAINED IN ACCORDANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION GUIDANCE MATERIAL.
9. WATER MAINS TO HAVE 6.0 FEET MINIMUM COVER UNLESS OTHERWISE STATED OR SHOWN ON THE PROFILES. WHEN 6.0 FEET OF COVER CANNOT BE MAINTAINED 4" RIGID BOARD INSULATION SHALL BE USED. DEPTH OF COVER SHALL NOT BE LESS THAN 4 FEET EVEN WITH INSULATION.
10. ALL MECHANICAL JOINT, PIPE, FITTINGS, VALVES AND HYDRANTS SHALL INCORPORATE A WEDGE TYPE RETAINER CLAND INSTEAD OF THE COMMON FOLLOWER GLAND.
11. ALL EXISTING UNDERGROUND UTILITIES WERE LOCATED USING THE BEST AVAILABLE INFORMATION. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL UTILITIES WHETHER OR NOT THEY ARE SHOWN ON THE PLANS. ALL REPAIRS TO DAMAGED UTILITIES SHALL BE MADE BY THE CONTRACTOR USING MATERIALS APPROVED BY THE ENGINEER PRIOR TO INSTALLATION AND AT NO ADDITIONAL COST TO THE OWNER.
12. WATER SERVICE SHALL NOT BE INTERRUPTED FOR MORE THAN FOUR (4) HOURS. ALL CUSTOMERS THAT MAY BE TEMPORARILY OUT OF WATER SHALL BE NOTIFIED TWENTY-FOUR (24) HOURS PRIOR TO ACTIVITY BY THE CONTRACTOR. THE CITY SHALL BE GIVEN THE SAME NOTICE TO PREPARE FOR ALL SYSTEM SHUTDOWNS. CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION TO LOCATE EXISTING WATER MAIN AT POINT OF CONNECTIONS TO NEW MAIN.
13. ALL CHLORINATED WATER FROM DEWATERING, TESTING, OR ANY OTHER CONSTRUCTION ACTIVITIES SHALL BE DECHLORINATED AND DISPOSED OF IN AN APPROVED MANNER. NO CHLORINATED WATER SHALL BE DISCHARGED TO WATERS OF THE STATE.
14. WHENEVER A SOLID SLEEVE IS INDICATED ON THE DRAWINGS, THE CONTRACTOR MAY BE REQUIRED TO USE A TRANSITION COUPLING DEPENDING ON THE MATERIAL OF THE EXISTING PIPE. THE CONTRACTOR SHALL CONFIRM THE EXISTING MATERIAL AND CONFIRM COMPATIBILITY PRIOR TO CUTTING THE PIPE. SHOULD A TRANSITION COUPLING BE REQUIRED IN LIEU OF A SOLID SLEEVE, THE TRANSITION COUPLING SHALL BE PAID FOR AS A SOLID SLEEVE AT THE UNIT PRICE IN THE BID.

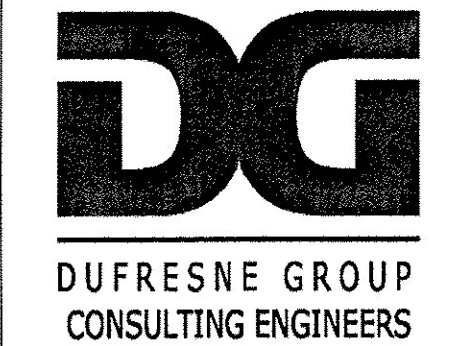
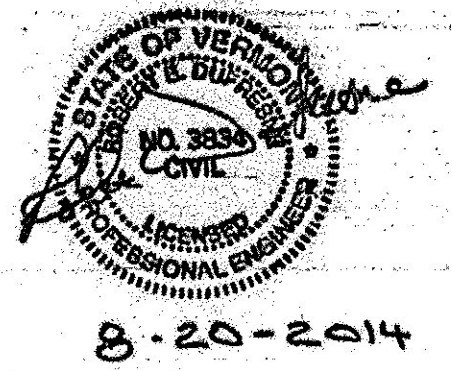
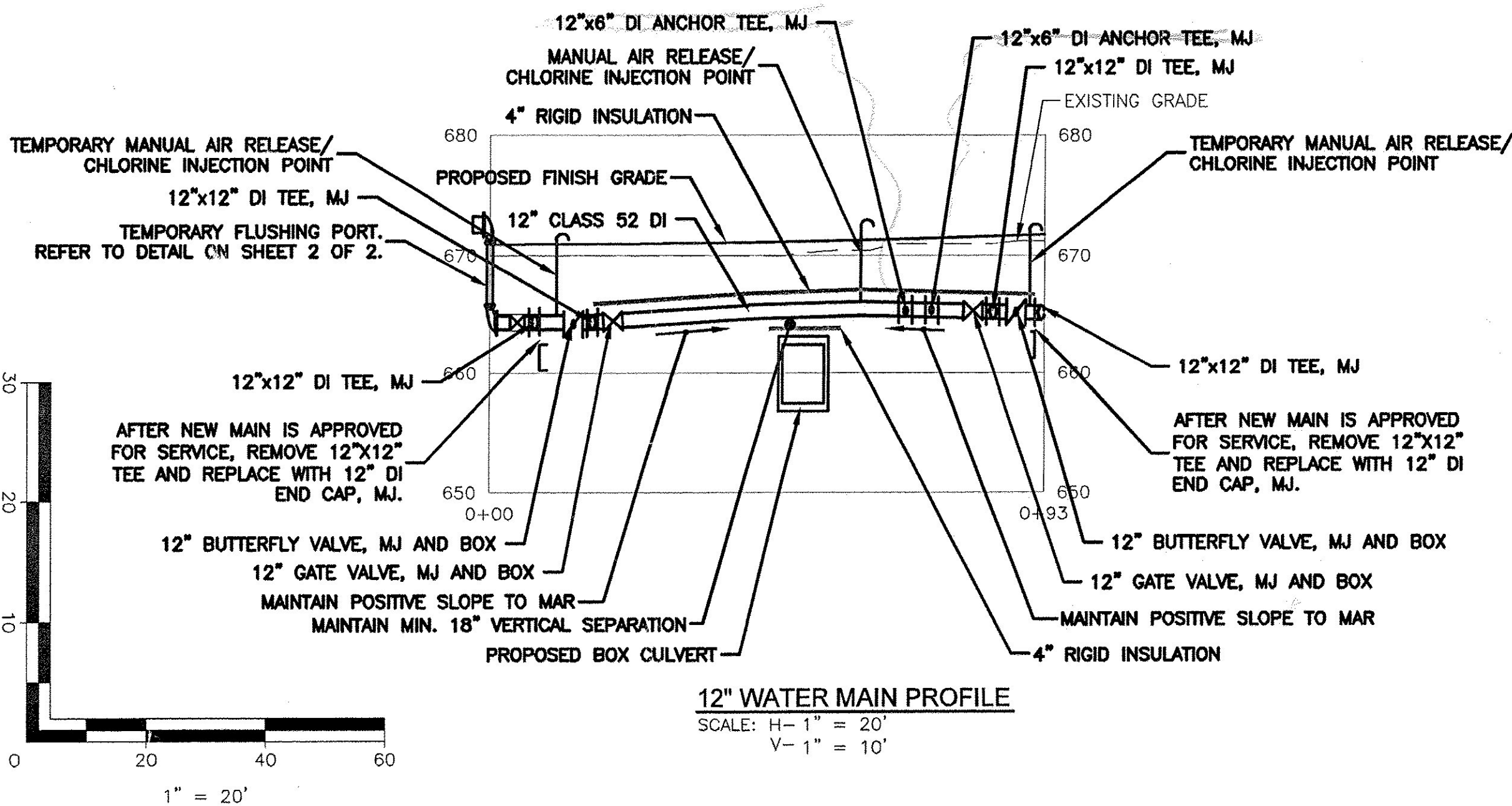
15. CONTRACTOR IS RESPONSIBLE FOR FLUSHING, PRESSURE TESTING AND DISINFECTING ALL NEW WATER MAIN. CHLORINE INJECTION POINTS SHALL BE INSTALLED WHERE REQUIRED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION AND REMOVED UPON COMPLETION OF TESTING. CONTRACTOR TO DISCUSS PROCEDURES WITH ENGINEER PRIOR TO COMMENCEMENT OF TESTING ACTIVITIES. ALL CHLORINATION INJECTION POINTS SHALL BE WITHIN 10- FEET FROM THE SOURCE OF WATER. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
16. CONTRACTOR SHALL VERIFY LOCATION OF ALL OVERHEAD AND UNDERGROUND ELECTRIC, CABLE AND TELEPHONE LINES AND TAKE NECESSARY PRECAUTIONS IN STRICT ACCORDANCE WITH OSHA STANDARDS DURING CONSTRUCTION. CONTRACTOR SHALL CONTACT THE LOCAL POWER UTILITY AND TELEPHONE UTILITY REGARDING ANY NECESSARY SUPPORT OF ANY UTILITY POLES DURING CONSTRUCTION. LOCAL ELECTRIC UTILITY IS GREEN MOUNTAIN POWER. LOCAL PHONE UTILITY IS FAIRPOINT COMMUNICATIONS.
17. CONTRACTOR TO PROVIDE CAPS FOR ALL ABANDONED PIPING THAT IS SHOWN TO BE LEFT IN PLACE. ALL TYPES OF PIPE CAPPING TO BE PAID FOR UNDER CHANGE ORDER LUMP SUM. ALL PIPE TO BE ABANDONED SHALL BE DRAINED OF WATER AND CAPPED UNLESS SHOWN TO BE REMOVED.
18. GENERALLY HEAVY OR DARK LINE WORK OR NOTES REFER TO PROPOSED IMPROVEMENTS INCLUDED IN THIS CONTRACT. LIGHT LINE WORK OR SCREENED GENERALLY DENOTES EXISTING FACILITIES AND FEATURES.
19. TECHNICAL SPECIFICATIONS PROVIDE NECESSARY INFORMATION AND ARE PART OF THE CONTRACT DOCUMENTS FOR THIS PROJECT.
20. CONTRACTOR SHALL LOCATE AND CONNECT WATER SERVICES TO ALL WATER USERS WITHIN PROJECT AREA UPON COMPLETION OF INSTALLATION OF WATER MAIN. SUCCESSFUL PRESSURE TEST AS DISCUSSED IN THE SPECIFICATIONS AND RECEIPT OF TWO CONSECUTIVE SUCCESSFUL BACTERIOLOGICAL TESTS. WATER SERVICE CONNECTIONS SHALL NOT BE MADE WITHOUT APPROVAL OF THE ENGINEER.
21. TEMPORARY WATER MAIN IS SHOWN APPROXIMATELY AND FUSION WELDED RADI OR FITTINGS MAY BE REQUIRED.

**LOCAL VALVE OPERATION**

1. EXISTING AND PROPOSED MAIN LINE GATE VALVES AND BUTTERFLY VALVES SHALL OPEN RIGHT OR CLOCKWISE. OPERATION OF ALL VALVES WILL BE PERFORMED BY THE OWNER'S STAFF ONLY.
2. ALL INTERCONNECTIONS TO THE EXISTING SYSTEM CAN ONLY BE MADE WITH THE WRITTEN PERMISSION OF THE FIELD ENGINEER.

LEGEND	
	WATER MAIN
	TEMPORARY WATER
	FITTINGS
	BUTTERFLY VALVE
	GATE VALVE
	MANUAL AIR RELEASE
	TAPPING SLEEVE AND VALVE

ABBREVIATIONS	
CI	CAST IRON PIPE
CIP	CHLORINE INJECTION POINT
DI	DUCTILE IRON PIPE
HYD	FIRE HYDRANT
MAR	MANUAL AIR RELEASE
MJ	MECHANICAL JOINT



PROJECT NAME: BARRE TOWN WATER MAIN RELOCATION  
 PROJECT NUMBER: STP SCR(10)  
 FILE NAME: WATER MAIN PLAN  
 PROJECT LEADER: K UPMAL  
 DESIGNED BY: B.L. BAKER  
 PLOT DATE: 8/20/14  
 DRAWN BY: B.L. BAKER  
 CHECKED BY: R.E. DUFRESNE  
 SHEET 1 OF 2