

GENERAL NOTES:

1. SURVEY PROVIDED BY DUFRESNE & ASSOCIATES, P.C. JANUARY 2004 USING A NICOM TOTAL STATION PROCEDURE. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE BASED ON INFORMATION PROVIDED BY THE CITY OF BARRE. THIS IS NOT A BOUNDARY SURVEY. ELEVATIONS ARE BASED ON USGS MEAN SEA LEVEL DATUM.
2. ALL WORK WAS DONE IN PUBLIC RIGHT-OF-WAY OR EASEMENT AREAS. INFORMATION PROVIDED BY CITY OF BARRE.
3. MINIMUM VERTICAL CLEARANCE BETWEEN NEW WATER MAINS AND ALL EXISTING UTILITIES, EXCEPT SEWERS AND STORM DRAINS IS SIX (6) INCHES AT CROSSING LOCATIONS.
4. ALL BURIED FITTINGS ARE BLOCKED. REFER TO THRUST BLOCK DETAILS, AND TRENCH DETAIL SHOWN ON DRAWING 5.
5. MECHANICAL JOINT RESTRAINTS WERE USED WHERE VALVES WERE SUBJECTED TO SERVICE PRESSURES ON ONE SIDE BEFORE BEING FULLY INCORPORATED INTO THE DISTRIBUTION SYSTEM.
6. WATER MAINS HAVE A MINIMUM 5.5 FEET OF COVER UNLESS OTHERWISE STATED OR SHOWN ON THE PROFILES. WHEN 5.5 FEET OF COVER WAS NOT MAINTAINED, 4" RIGID BOARD INSULATION WAS USED. SEE MATERIAL SPECIFICATION SECTION 735.01.
7. ALL MECHANICAL JOINT FITTINGS AND VALVES INCORPORATED A MEGA-LUG RETAINER GLAND INSTEAD OF THE COMMON FOLLOWER GLAND.
8. ALL EXISTING UNDERGROUND UTILITIES WERE LOCATED USING THE BEST AVAILABLE INFORMATION. CONTRACTOR WAS RESPONSIBLE FOR PROTECTION OF ALL UTILITIES WHETHER OR NOT THEY ARE SHOWN ON THE PLANS. ALL REPAIRS TO DAMAGED UTILITIES WERE MADE BY THE CONTRACTOR USING MATERIALS APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
9. CONTRACTOR FLUSHED, PRESSURE TESTED AND DISINFECTED ALL NEW WATER MAIN CHLORINE INJECTION POINTS INSTALLED WHERE REQUIRED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION WERE REMOVED UPON COMPLETION OF TESTING.
10. GENERALLY HEAVY OR DARK LINE WORK OR NOTES REFER TO COMPLETED IMPROVEMENTS. LIGHT LINE WORK OR SCREENED GENERALLY DENOTES EXISTING FEATURES.
11. TECHNICAL SPECIFICATIONS PROVIDE NECESSARY INFORMATION AND ARE PART OF THE CONTRACT DOCUMENTS FOR THIS PROJECT.

LOCAL VALVE OPERATION

1. EXISTING AND NEW MAIN LINE GATE VALVES SHALL OPEN RIGHT OR CLOCKWISE. OPERATION OF GATE VALVES WILL BE PERFORMED BY THE OWNER'S STAFF ONLY.

ABBREVIATIONS	
CI	CAST IRON PIPE
CMP	CORREGATED METAL PIPE
CPP	CORREGATED PLASTIC PIPE
CU	COPPER PIPE
DI	DUCTILE IRON PIPE
EL	ELEVATION
ER	EROSION
HYD	FIRE HYDRANT
INV	INVERT
IP	IRON PIPE
MJ	MECHANICAL JOINT
P	ELECTRICAL POWER
ROW	RIGHT OF WAY
STA	STATION
TBM	TEMPORARY BENCH MARK
TYP	TYPICAL
W	WATER MAIN
WSO	WATER SHUT OFF
WV	WATER VALVE

LEGEND	
EXISTING:	
	MAJOR CONTOURS
	MINOR CONTOURS
	EDGE OF ASPHALT
	EDGE OF GRAVEL
	TREE LINE
	WATERLINE
	STONEWALL
	POWERLINE
	FENCE
	GUARDRAIL
	SHRUB
	EVERGREEN TREE
	DICIDUOUS TREE
	STUMP
	UTILITY POLE
	GUY WIRE
	LIGHT
	MAILBOX
	WELL
	FIRE HYDRANT
	WATER SHUT OFF
	WATER VALVE
	STORM MANHOLE
	PROPERTY CORNER
	ROAD SIGN
	RIGHT-OF-WAY
PROPOSED:	
	WATERLINE
	FIRE HYDRANT
	WATER VALVE
	WATER SHUT OFF
	BORING LOCATION
	M.J. PIPE FITTINGS
	END CAP
	MANUAL AIR RELEASE
	SOLID SLEEVE

MATERIAL SCHEDULE			
ITEM	DESCRIPTION	UNITS	QUANTITY
629.60	GALVANIZED STEEL BRIDGE SUPPORTS	LBS	3000
629.60	BRIDGE ROLLERS FOR PIPE	EA	9
629.60	INSULATED PIPE	LF	135
629.60	PIPE TERMINATIONS AT ABUTMENTS	EA	2
629.60	PIPE EXPANSION JOINT	EA	1
629.60	AIR RELEASES - INSULATED	EA	1
629.42	12" D.I. WATERMAIN	LF	300
629.42	8" D.I. WATERMAIN	LF	40
629.42	6" D.I. WATERMAIN	LF	50
629.42	FITTINGS	LBS	3000
629.42	12" BUTTERFLY VALVE WITH BOX	EA	2
629.42	8" R.S. VALVE WITH BOX	EA	1
629.42	6" R.S. VALVE WITH BOX	EA	1
629.42	3/4" MANUAL AIR RELEASE WITH BOXES	EA	4
629.42	LEDGE ROCK EXCAVATION	CY	10
629.42	BOULDER EXCAVATION	CY	40
629.42	EXPLORATORY EXCAVATION	CY	150
629.42	CRUSHED GRAVEL	CY	50
629.42	EXCAVATION BELOW GRADE WITH GRAVEL REFILL	CY	25
629.42	INTERCONNECTIONS TO EXISTING SYSTEMS	LS	1
629.42	TRENCH EXCAVATION	CY	300
629.42	TEMPORARY PAVING	SY	400
629.42	FULL WIDTH OVERLAY	TON	130
629.42	ELECTRICAL WORK FOR PIPE TRACING	LS	1
629.42	MISCELLANEOUS WORK AND CLEANUP	LS	1



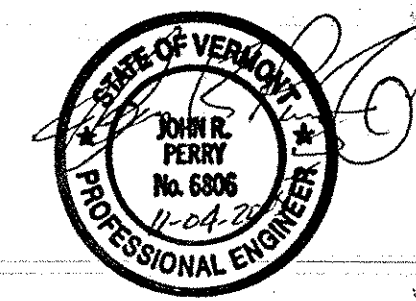
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Project # 413025
 Project Mgr. JRP
 Design JRP
 Drawn GJW
 Checked by RNG
 Date OCTOBER 5, 2004
 Scale AS SHOWN
 Approved by JRP

Revisions:

THE DRAWINGS FOR THIS PROJECT SHALL NOT BE REUSED OR ALTERED IN ANY WAY WITHOUT THE WRITTEN APPROVAL AND AUTHORITY OF DUFRESNE & ASSOCIATES, P.C. ANY REVISIONS SHALL BE MADE BY THE ENGINEER.

Dufresne & Associates, P.C.



GRANITE STREET BRIDGE IMPROVEMENTS
 RECORD DRAWINGS NOTES AND LEGENDS
 BARRE, VERMONT

THE RESIDENT PROJECT REPRESENTATIVE FOR THE WATER MAIN INSTALLATION PORTION OF THIS PROJECT WAS RANDY GOODWIN. THE WATER MAIN RECORD DRAWING INFORMATION, AS DRAFTED, WAS RECORDED BY RANDY GOODWIN AND IS DEEMED REPRESENTATIVE OF ACTUAL WATER MAIN CONDITIONS BASED ON THE FIELD INFORMATION AVAILABLE

SIGNED: Randy Goodwin
 R.N. GOODWIN, RPR, DUFRESNE & ASSOCIATES, PC

RECORD DRAWINGS

R1

DWG. NO. --- 085 WL
 059 WL
 SHEET 1 OF 5