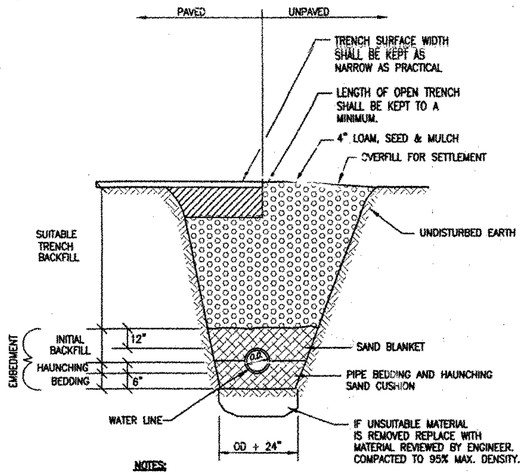
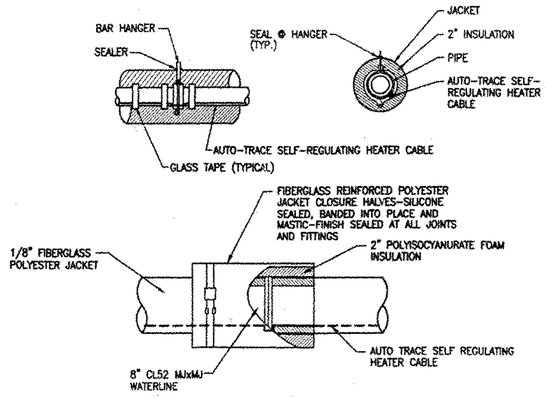


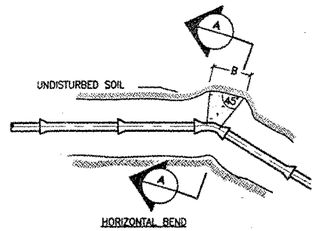
NOTES:

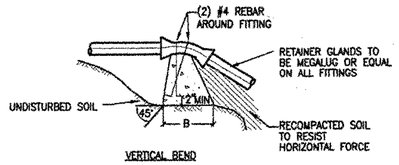
1. NO MECHANICAL TAMPERS SHALL BE USED DIRECTLY OVER PIPE TO INSURE PIPE IS NOT DAMAGED.
2. BEDDING TO PROVIDE A FIRM , STABLE, CONTINUOUS AND UNIFORM SUPPORT FOR THE FULL LENGTH OF PIPE.

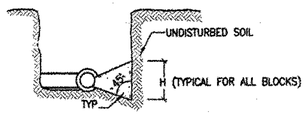
A / C4 TYPICAL WATERLINE TRENCH DETAIL
SCALE: NONE



C / C4 WATERLINE INSULATION DETAIL AT PIPE JOINTS
SCALE: NONE







NOTES:

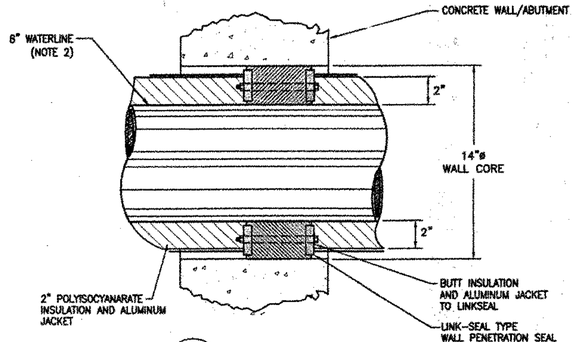
1. ALL THRUST BLOCKS SHALL BE "CONCRETE HIGH PERFORMANCE, CLASS B".
2. CONCRETE SHALL BE PLACED SO AS TO AS NOT TO HAMPER THE FUTURE REMOVAL OF A FITTING.
3. ALL FITTINGS ARE TO BE WRAPPED WITH POLYETHYLENE.

MINIMUM BEARING FACE "HEIGHTS AND WIDTHS" FOR CONCRETE THRUST BLOCKS (TEST PRESSURE = 150 PSI)

PIPELINE SIZE	HEIGHT (H) AND WIDTH (B) OF BEARING FACE FOR FITTING TO BE RESTRAINED											
	11 1/4° BEND H	11 1/4° BEND B	22 1/2° BEND H	22 1/2° BEND B	45° BEND H	45° BEND B	90° BEND H	90° BEND B	TEES & PLUGS H	TEES & PLUGS B	WYES H	WYES B
8"	1.0	1.0	1.0	1.75	1.5	2.25	1.75	3.5	1.5	3.0	1.5	2.25

1. HYDROSTATIC AND LEAKAGE TEST PRESSURE PER SPECIFICATIONS.
2. UNDISTURBED EARTH. SIDE OF TRENCH OR OTHER EXCAVATION.
3. SEE DIAGRAM FOR H AND B LOCATION REFERENCE. H AND B IN FEET.
4. PLACE 4 MIL POLYETHYLENE BETWEEN FITTINGS AND THRUST BLOCKS.
5. MINIMUM BEARING FACE IS BASED ON A SOIL TYPE WITH AASHTO CLASSIFICATION OF GROUP A-1 AND A-2 FOR GRANULAR MATERIALS. OTHER SOIL TYPES MAY REQUIRE AN INCREASE IN THE BEARING FACES, AS IDENTIFIED DURING CONSTRUCTION.

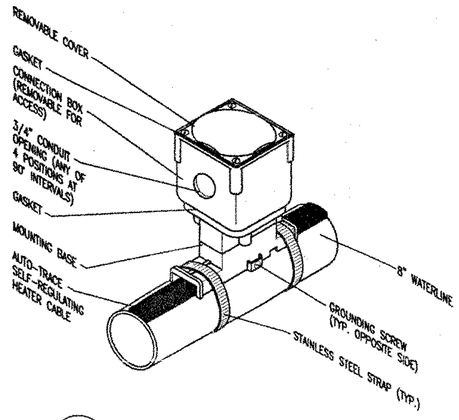
E / C4 THRUST BLOCK DETAILS
SCALE: NONE



B / C4 LINK-SEAL DETAIL
SCALE: NONE

NOTES:

1. DEMONSTRATE TO ENGINEER THAT LINKSEAL HAS BEEN PROPERLY INSTALLED AND TIGHTENED BEFORE INSTALLING INSULATION ALUMINUM JACKET.
2. EXTEND THE WATERLINE 2'-0" MINIMUM BEYOND BRIDGE ABUTMENT BEFORE INSTALLING ELBOW TO TRANSITION ELEVATION OF WATERLINE TO LOWER DEPTH. TYPICAL AT BOTH ENDS OF BRIDGE.



D / C4 HEAT TRACE DETAIL
SCALE: NONE

NOTES:

1. HEAT TRACE CABLE SHALL BE RAYCHEM SELF REGULATING HEATING CABLE (#5BTV-1-CE) AND RAYCHEM ACCESSORIES OR APPROVED EQUAL.

PROJECT NAME: JOHNSON	DESIGNED CGM	PROJECT NO. 98013
PROJECT NUMBER: BHO 1448(18)	DRAWN JRB	DRAWING NO. C4
HIGHWAY NO.: TH 2 BRIDGE NO.: 6 OVER: THE LAMOILLE RIVER	CHECKED BFA	
SHEET 53 OF 73	DATE APR. 2002	SHEET 4 OF 4

NO. | DATE | REVISION DESCRIPTION | CHECKED

MISCELLANEOUS DETAILS

VILLAGE OF JOHNSON
JOHNSON, VERMONT

RAILROAD STREET BRIDGE AND UTILITY IMPROVEMENTS

Forcier Aldrich & Associates
Consulting Engineers
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(802) 879-7733
(802) 879-1742 (Fax)

STATE OF VERMONT * FORCIER ALDRICH * No. 8264 * REGISTERED PROFESSIONAL ENGINEER

FA&A

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