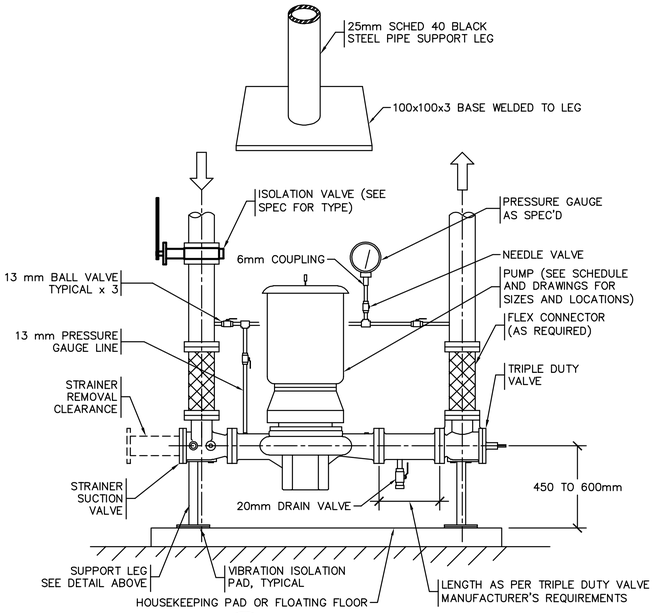
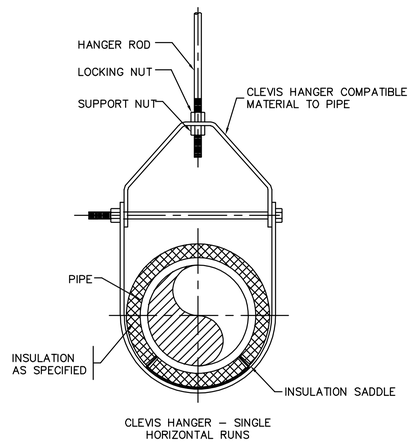
SHEET: COW-A1 (05/2005)

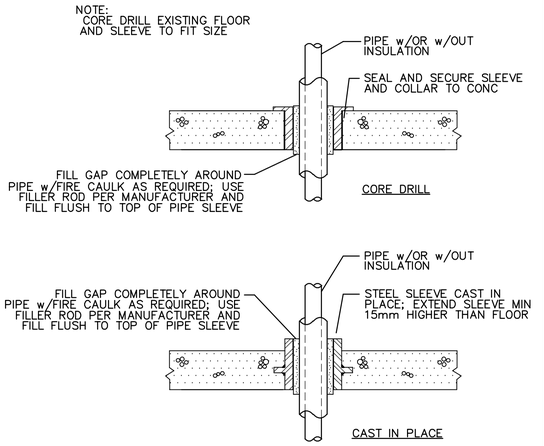


1 – N.T.S. VERTICAL INLINE PUMP DETAIL

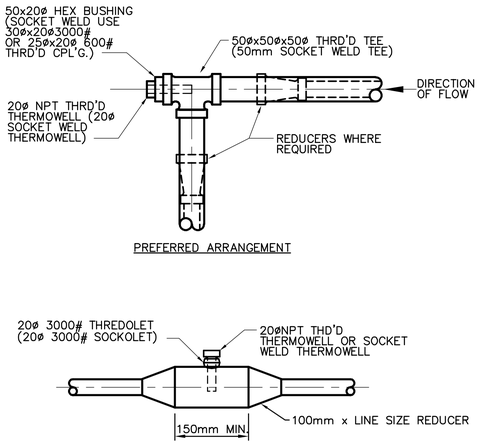


CLEVIS HANGER – SINGLE HORIZONTAL RUNS

2 – N.T.S. PIPE CLEVIS HANGER DETAIL LOWER ATTACHEMENT



3 – N.T.S. PIPE PENETRATION THROUGH CONCRETE DETAIL



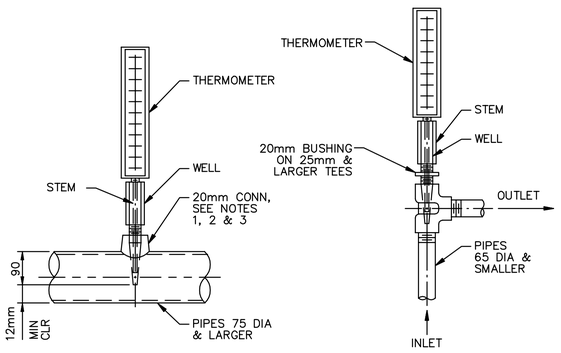
4 – N.T.S. THERMOWELL INSTALLATION DETAIL IN 50ø & SMALLER LINES

L (MAXIMUM MOVEMENT): 152 FOR PIPE SIZES UP TO 150
203 FOR PIPE SIZES OVER 150

GUIDE SIZE NO	P – PIPE SIZE (mm) / T – INSULATION THICKNESS (mm)					
	25	40	50	65	75	100
A	25–40	25–40	25–40			
B	50–75	50–75	50–75	50–65		
C	100 & 130	100 & 130	100 & 130	25 & 100	25–50 & 100	25–50
D	150	150	150	75 & 150	65–75 & 150	65 & 100
E		200	200	130 & 200	130 & 200	130 & 150
F		250 & 300	250 & 300	250 & 300	250 & 300	200 & 250

GUIDE SIZE NO	DIMENSIONS (mm)							
	A	B	C	D	E	F	G	H
A	224	171	200	110	171	38	102	16
B	275	222	251	135	187	38	102	16
C	349	286	316	168	200	51	152	16
D	403	340	376	202	248	51	152	19
E	457	394	433	231	248	51	152	25
F	565	502	535	279	359	102	203	25

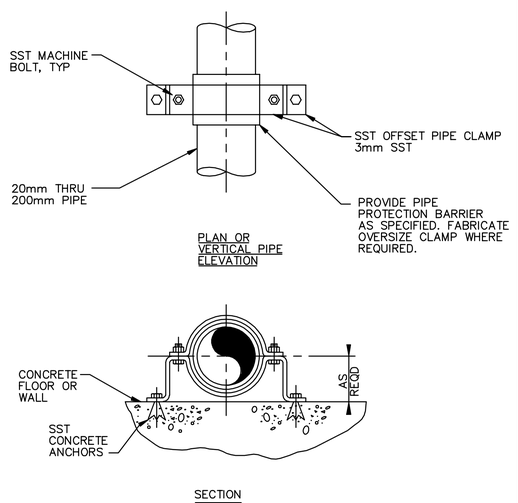
5 – N.T.S. PIPE GUIDE DETAIL



NOTES:

1. ALL DIMENSIONS IN MILLIMETRES, UNLESS OTHERWISE NOTED.
2. FOR STEEL, GALVANIZED STEEL AND PVC 65mm AND SMALLER, USE A 20mm BUSHING IN TEE.
3. FOR DUCTILE IRON AND FIBERGLASS REINFORCED PLASTIC PIPE, ALL SIZES, USE A 20 mm OUTLET PIPE SADDLE.
4. FOR STEEL AND STAINLESS STEEL PIPES 80mm AND LARGER, AND PRESSURE VESSELS, USE 20mm THRED–O–LETS AS SHOWN.

6 – N.T.S. THERMOMETER MOUNTING



NOTES :

1. ALL DIMENSIONS IN MILLIMETRES, UNLESS OTHERWISE NOTED.

7 – N.T.S. PIPE SUPPORT – WALL MOUNTED

APEGM
Certificate of Authorization
CH2M HILL Canada Ltd.
No. 1441 Expiry: April 30, 2006

B.M. ELEV.

NO.	REVISIONS	DATE	BY
00	ISSUED FOR TENDER	06/03/29	TT

CH2MHILL Fredericksen Cooper ARCHITECTS — EarthTech, A Tyco International Ltd. Company

DESIGNED BY	TT	CHECKED BY	DL
DRAWN BY	AM	APPROVED BY	AHL
SCALE:	NTS	RELEASED FOR CONSTRUCTION BY:	R. SOROKOWSKI
DATE	2005/07/04	DATE	2006/03/29

ENGINEER'S SEAL
ORIGINAL SIGNED BY
D.K. CUDDINGTON
2006/03/29

CONSULTANT DRAWING NO.
WB–H0451

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

WATER TREATMENT PLANT
MAIN BUILDING
MECHANICAL AND ELECTRICAL

HVAC

STANDARD DETAILS

CITY FILE NUMBER
SHEET OF
CITY DRAWING NUMBER
1–0601B–A–H0451–001–00D

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