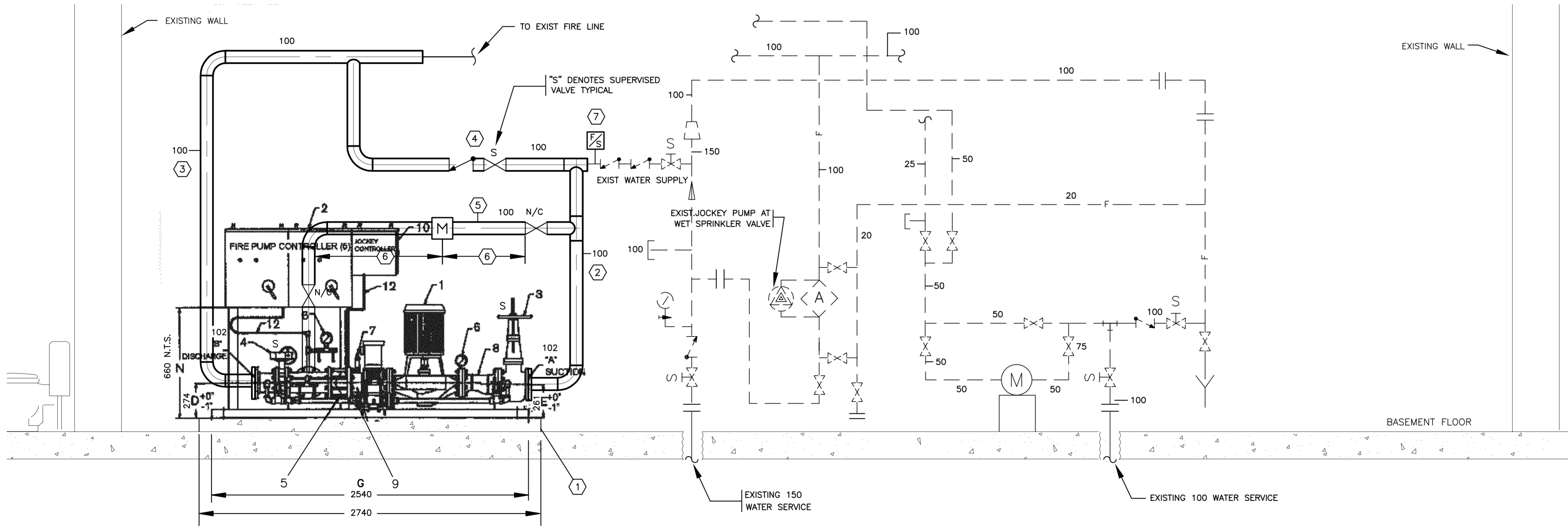


DIMENSION TABLE (mm):												
A	B	C	D	E	F	G BASE	H	K	L (MAX)	M	T	N (MIN)
102	102	0	274	261	1585	2540	1978	305	660	165	102	660

2 BASEMENT WATER METER ROOM – FLOOR PLAN PIPING RENOVATION
SCALE 1:20



LEGEND:	
PUMP	
ELBOW RISING	
ALARM VALVE	
BOTTOM TAKE-OFF	
ELBOW DROPPING	
ISOLATION VALVE	
SUPERVISED ISOLATION VALVE	
CHECK VALVE	
2-WAY CONTROL VALVE	
PRESSURE GAUGE	
CAP OR PLUG	

NEW FIRE PUMP PACKAGE:	
P-1	ARMSTRONG FIREPAK ULTRA PLUS F4516, VIL-3x3x8FM-15hp, 946LPM AT 344.7kpa (250gpm@850psi) 3500rpm MOTOR, 15hp, 575V/3ph/60Hz, C/W Tornatech-GPA-GPU-575/15/3/60 CONTROLLER AND TRANSFER SWITCH.
JP-1	ARMSTRONG 4700 VMS-03/04, 18.9LPM AT 413kpa (50gpm@60psi) 3450rpm MOTOR, 1hp, 115V/1ph/60Hz, C/W Tornatech-JP1-120/1/1/60 CONTROLLER.
REFER TO SPECIFICATION SECTION 232100	
APPROVED MANUFACTURERS:	
-AURORA	
-ITT	
INSTALLATION AND START-UP MUST BE IN COMPLIANCE WITH MANUFACTURER RECOMMENDATIONS	

KEY NOTES:	
1	PROVIDE 100mm THICK CONCRETE HOUSEKEEPING PAD FOR FIRE PUMP. REFER TO STRUCTURAL SPECIFICATION. POSITION PUMP TO PROVIDE SUFFICIENT CLEARANCE TO INSTALL TEST TEE PIPING. OFFSET PIPING GENTLY (NOT MORE THAN 30°) TO RECONNECT PIPE IF NECESSARY. USE WELDED PIPE JOINT.
2	PROVIDE 100mm SUCTION PIPE CONNECTIONS.
3	PROVIDE 100mm DISCHARGE PIPE TO CONNECT TO EXISTING FIRE LINE.
4	RE-INSTALL EXISTING 100mm BYPASS PIPE WITH EXISTING SHUTOFF VALVE AND CHECK VALVE.
5	PROVIDE 100mm TEST LOOP CONNECTED TO TEST TEE WITH FLOW METER AND TWO NORMALLY CLOSED VALVES.
6	DIMENSION FOR LOCATION OF METER AS PER PUMP MANUFACTURERS RECOMMENDATION.
7	PROVIDE FLOW SWITCH.

LEGEND	
1.	FIRE PUMP
2.	FIRE PUMP CONTROLLER
3.	GATE VALVE
4.	BUTTERFLY VALVE
5.	CHECK VALVE
6.	GAUGES
7.	CASING RELIEF VALVE
8.	EXCENTRIC REDUCER (IF APP.)
9.	CONCENTRIC INCREASER (IF APP.)
10.	JOCKEY CONTROLLER
11.	JOCKEY PUMP
12.	SENSING LINE NFPA 20
13.	TEST TEE

1 BASEMENT WATER METER ROOM – SECTION PIPING RENOVATION
SCALE 1:20

IMPORTANT NOTES

DO NOT SCALE THIS DRAWING

CONTRACTOR TO VERIFY ALL DIMENSIONS ON-SITE PRIOR TO COMMENCEMENT OF WORK AND REPORT ANY DISCREPANCIES TO THE CONSULTANT FOR CLARIFICATION

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3	MAR.28/13	ISSUED FOR TENDER
2	DEC.7/12	ISSUED FOR 100% REVIEW
1	OCT.23/12	ISSUED FOR 50% REVIEW

no.	date	revision
consultant		

ENGINEERING INC.

CONSULTING ENGINEERS

EDMONTON • CALGARY •

#202, 838 - 11th Avenue SW, Calgary Alberta, T2R 0E5

TEL (403) 245-6448 FAX (403) 244-0191

C12083

seal/permit

PROFESSIONAL ENGINEER ALBERTA

RAYMOND W. CHAN

280313

PERMIT NUMBER: P 4520

project

J.D. HIGINBOTHAM EMERGENCY SYSTEMS UPGRADES

LETHBRIDGE, ALBERTA

title

BASEMENT FLOOR PLAN FIRE PUMP REPLACEMENT MECHANICAL

date	DEC. 2012	drawn by	scale	AS NOTED
checked by		approved by		project no.
revision		drawing no.		

M2