

CFIA - MECHANICAL MAIN CHILLER WATER PIPING REPLACEMENT

OTTAWA FALLOWFIELD LABORATORY - 3851 FALLOWFIELD ROAD
MECHANICAL

DRAWING LIST

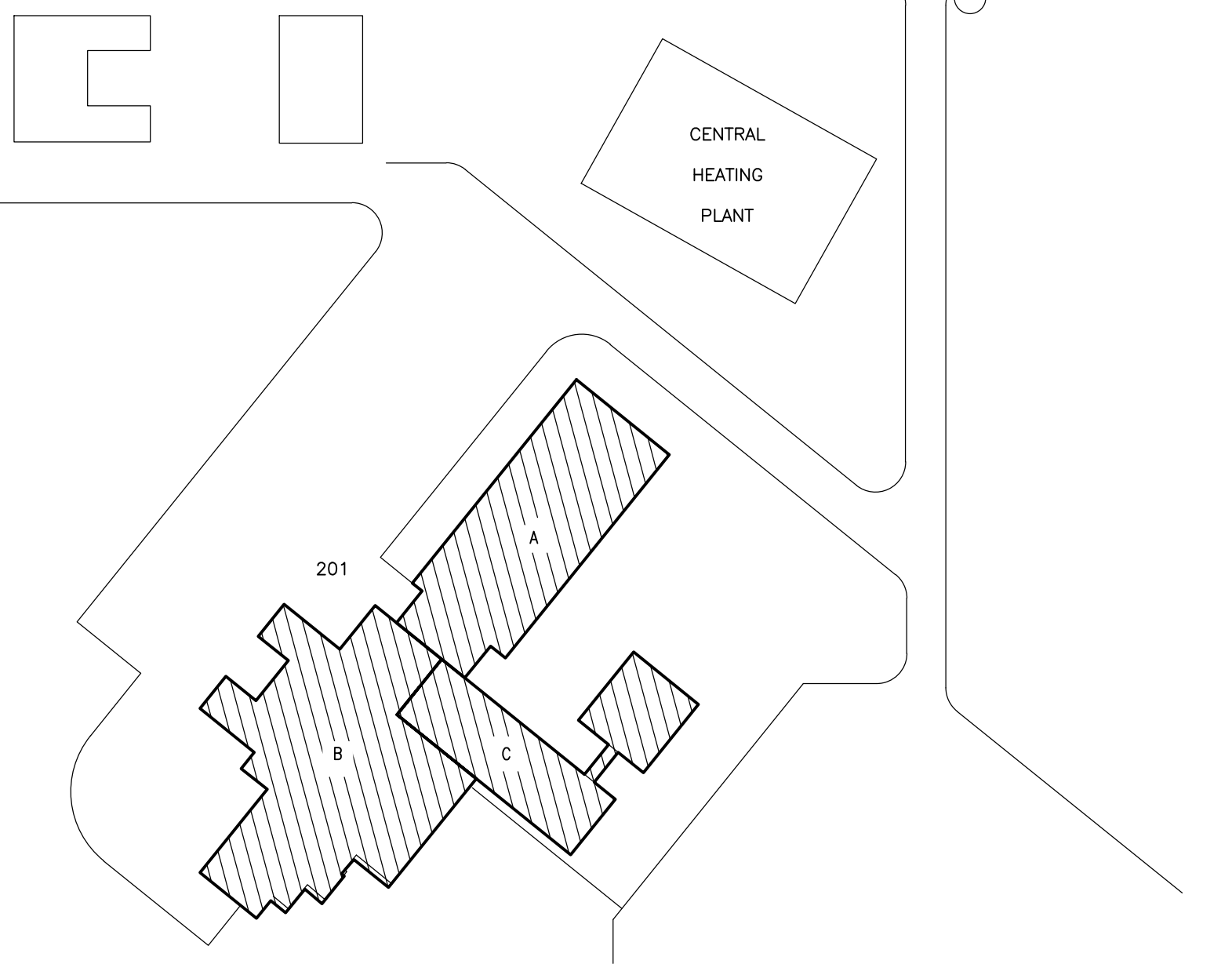
SYMBOL	DESCRIPTION
M1	MECHANICAL DRAWING LIST, LEGEND, KEY PLAN & DETAILS
M2	MECHANICAL BASEMENT DEMOLITION
M3	MECHANICAL BASEMENT NEW WORK
M4	MECHANICAL BASEMENT DEMOLITION & NEW WORK
M5	MECHANICAL FIRST & SECOND FLOOR DEMOLITION
M6	MECHANICAL FIRST & SECOND FLOOR NEW WORK
M7	MECHANICAL THIRD FLOOR DEMOLITION & NEW WORK
M8	MECHANICAL FOURTH FLOOR DEMOLITION & NEW WORK
M9	MECHANICAL FIFTH FLOOR DEMOLITION & NEW WORK
M10	MECHANICAL HEATING PLANT TO BASEMENT DEMOLITION & NEW WORK

GENERAL LEGEND

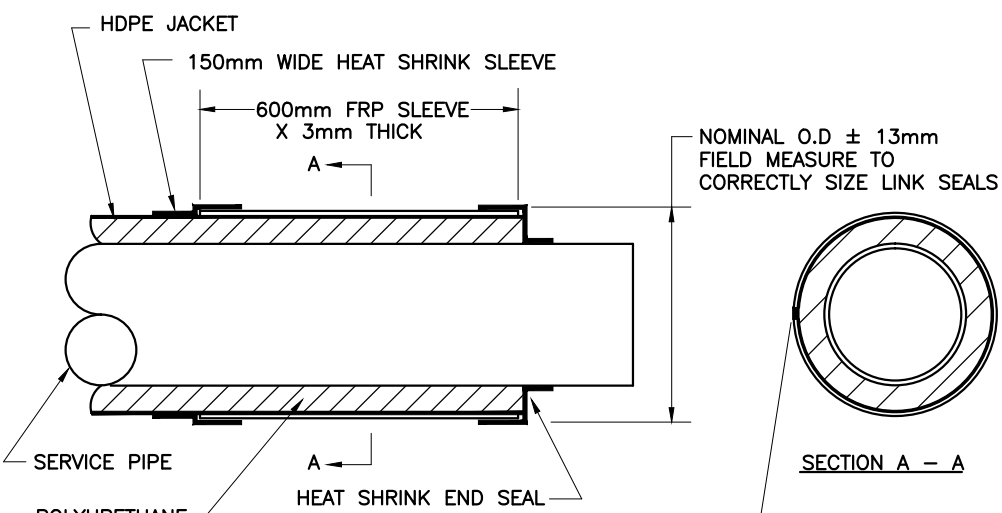
SYMBOL	DESCRIPTION
---	EXISTING PIPING/DUCTWORK/EQUIPMENT
----	EXISTING PIPING/DUCTWORK/EQUIPMENT TO BE REMOVED/RELOCATED
---	NEW/RELOCATED PIPING/DUCTWORK/EQUIPMENT
(E)	DENOTES EXISTING EQUIPMENT
(R)	DENOTES RELOCATED EQUIPMENT
(N)	DENOTES NEW EQUIPMENT
(X)	DENOTES EQUIPMENT TO BE REMOVED

MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
---	PIPING BELOW GRADE/SLAB	—○—	PIPING UP
—CHWS—	CHILLED WATER SUPPLY	— —	FLEXIBLE CONNECTION
—CHWR—	CHILLED WATER RETURN	— —	REDUCER
—T—	THERMOMETER	— —	CAP
—P—	PRESSURE GAUGE C/W VALVE	— —	ISOLATION VALVES
—AV—	AUTOMATIC AIR VENT C/W VALVE	— —	CIRCUIT BALANCING VALVE (CBV)
—O—	PIPING OFFSET	— —	UNION
—B—	BRANCH PIPING DOWN	— —	DRAIN VALVE C/W CAP & CHAIN
—D—	PIPING DOWN	—P—	PUMP (P)
—C—	COOLING COIL	—S—	STRAINER

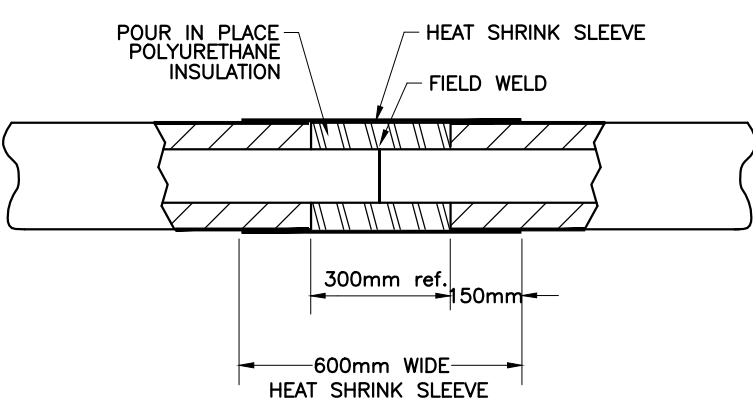


1 KEY PLAN
M1 N.T.S.



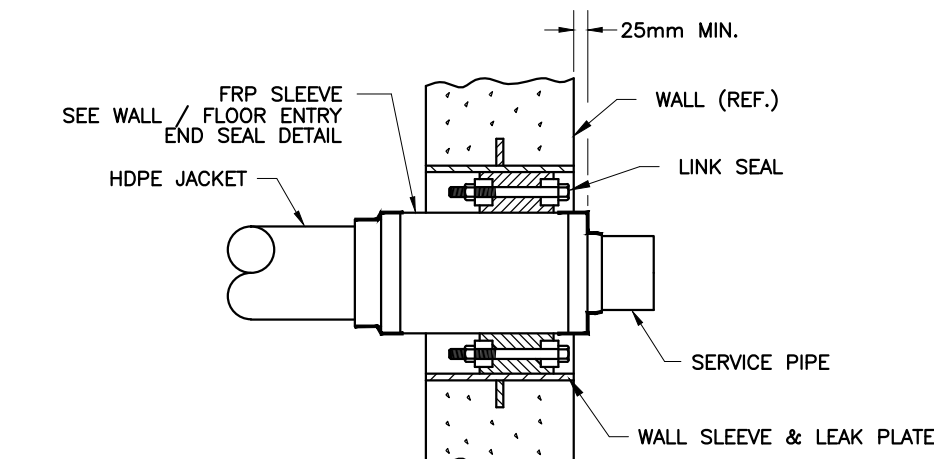
NOTES:
1. THE FOLLOWING MATERIALS SUPPLIED BY PIPE MANUFACTURER:
FRP SLEEVE
ADHESIVE
HEAT SHRINK SLEEVE
HEAT SHRINK END SEAL

2 UNDERGROUND PIPE
WALL/FLOOR ENTRY END SEAL FIELD KIT
M1 N.T.S.

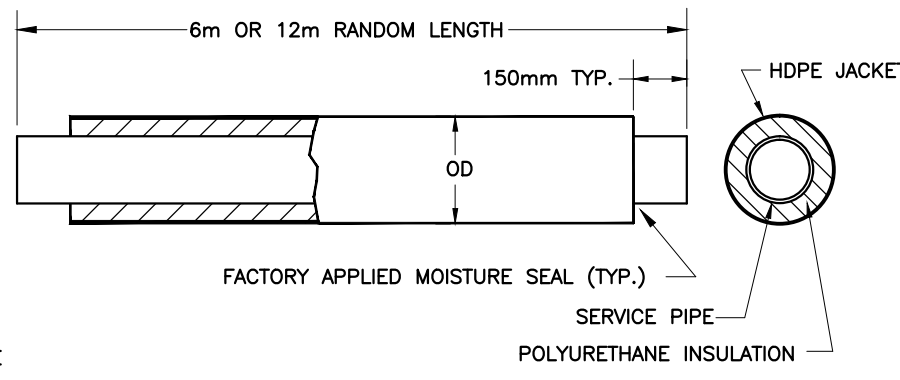


NOTES:
1. SOCKET WELD COUPLINGS, IF REQUIRED SUPPLIED BY INSTALLER
2. THE FOLLOWING FIELD JOINT MATERIAL SUPPLIED BY PIPE MANUFACTURER
POUR IN PLACE POLYURETHANE INSULATION MOLD FOR POUR IN PLACE HEAT SHRINK SLEEVE
STORE ALL CHEMICALS AT 15°C TO 30°C
3. DIFFERENCES IN HDPE JACKET O.D.'S BETWEEN PIECES ARE ACCOMMODATED BY A TAPER ACROSS THE FIELD JOINT

6 UNDERGROUND PIPE
FIELD JOINT, HEAT SHRINK SLEEVE
M1 N.T.S.

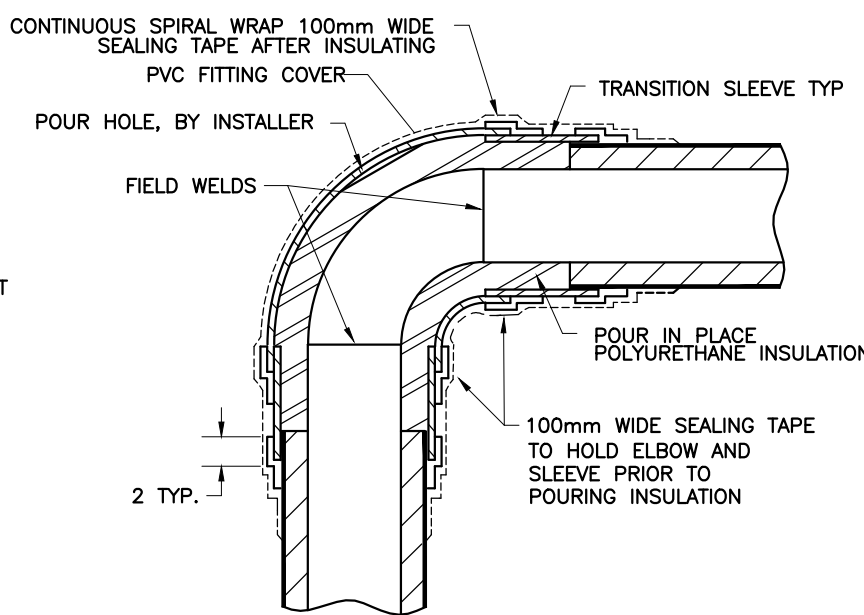


3 UNDERGROUND PIPE
LINK SEAL/WALL SLEEVE TABULATION
M1 N.T.S.



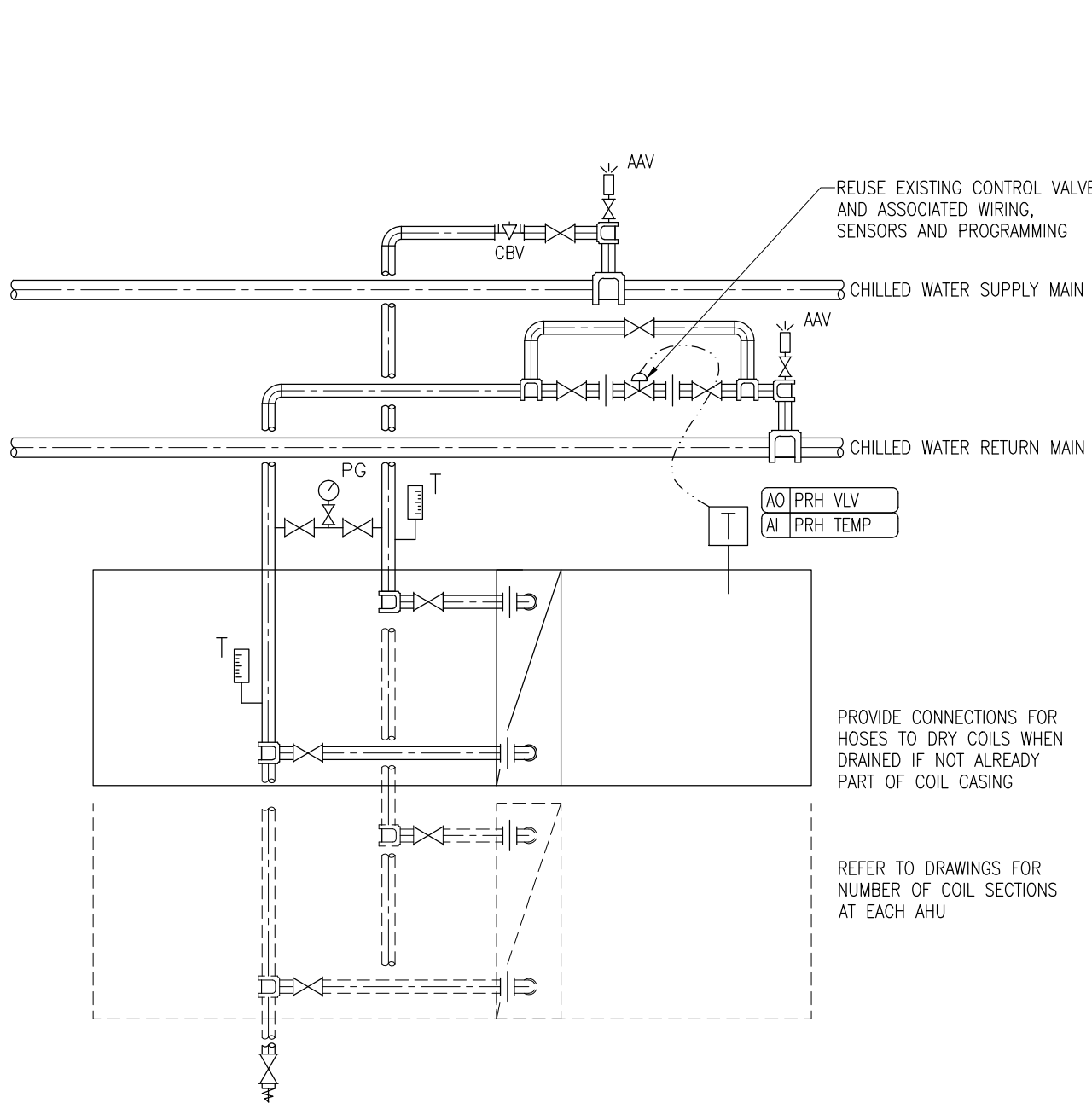
NOTE:
1. FOR 50mm AND SMALLER PIPE: SQUARE ENDS
FOR 65mm AND LARGER PIPE: BEVELED ENDS

4 UNDERGROUND PIPE
6M / 12M RL STRAIGHT LENGTH
M1 N.T.S.

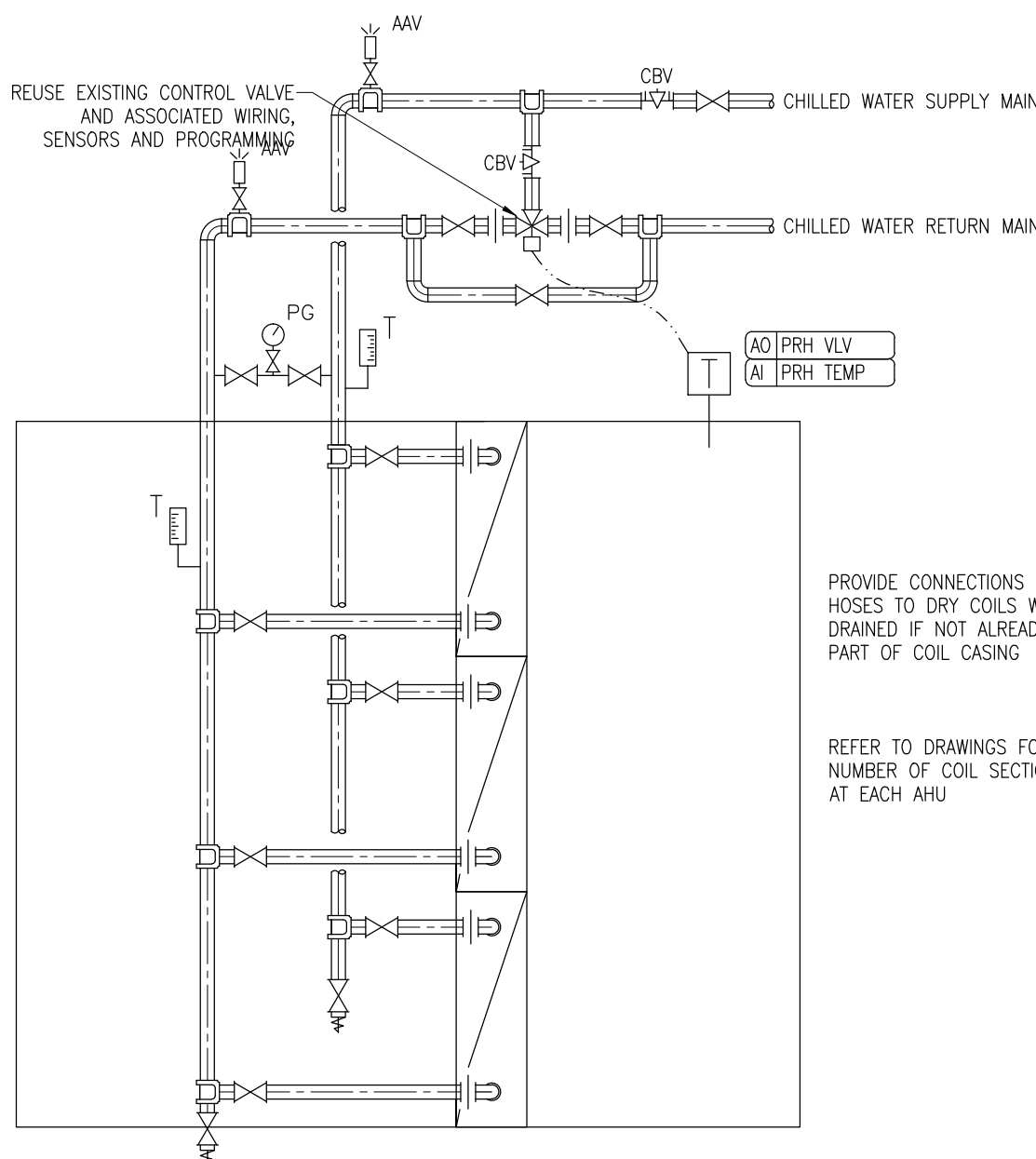


NOTES:
1. SERVICE PIPE ELBOWS SUPPLIED BY INSTALLER
2. THE FOLLOWING MATERIALS SUPPLIED BY PIPE MANUFACTURER
POUR IN PLACE POLYURETHANE INSULATION
TRANSITION SLEEVES
PVC FITTING COVER
SEALING TAPE
STORE ALL CHEMICALS AT 15°C TO 30°C

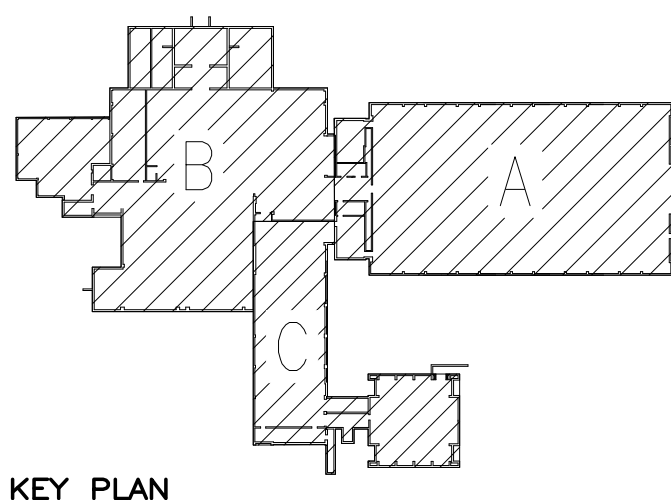
5 UNDERGROUND PIPE
ELBOW INSULATION FIELD KIT
M1 N.T.S.



8 NEW CHILLED WATER PIPING
2-WAY VALVE DETAIL
M1 N.T.S.



9 NEW CHILLED WATER PIPING
3-WAY VALVE DETAIL
M1 N.T.S.



KEY PLAN

05	ISSUED FOR TENDER	25/11/2015
04	ISSUED FOR TENDER	16/09/2015
03	ISSUED FOR 100% REVIEW	14/08/2015
02	ISSUED FOR 99% REVIEW	29/07/2015
01	ISSUED FOR 66% REVIEW	10/07/2015
revision		date

A	A detail no. no. du detail	A
C	B location drawing no. no. de localisation	BC
	C drawing no. no. du dessin	

project

CFIA – MECHANICAL
MAIN CHILLER WATER
PIPING REPLACEMENT

drawing

MECHANICAL
DRAWING LIST, LEGEND,
KEY PLAN & DETAILS

designed	S.VALLIER JUNE 2015	confu
date		
drawn	S.VALLIER JUNE 2015	dessin?
date		
revised	S.HAMILTON JUNE 2015	revise?
date		
approved	S.HAMILTON JUNE 2015	approuv?
date		
tender	J.JOSS	soumission
PWC Project Manager	Administrateur de projets TPC	
project no.	M10138	no. du projet
drawing no.	M1	no. du dessin