

CFIA - REPLACEMENT OF MAIN FIRE PUMP

BASEMENT

3851 FALLOWFIELD RD, OTTAWA

MECHANICAL

Project
REPLACEMENT OF MAIN FIRE PUMP

Prepared For
Canadian Food Inspection Agency

Contract No: C0091/3000711732

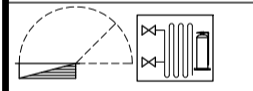
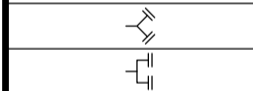
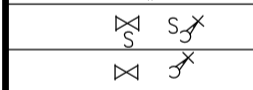
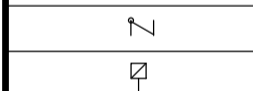
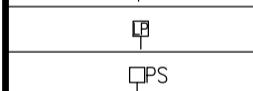
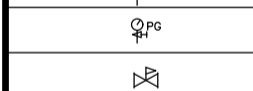
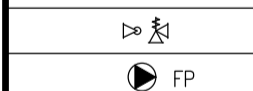

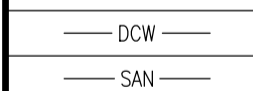
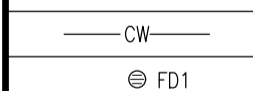
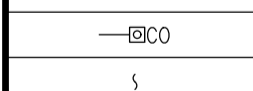
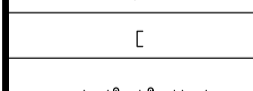
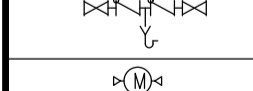
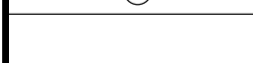
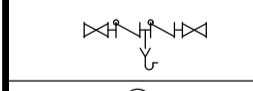
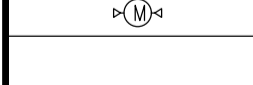

Goodkey Weedmark
Consulting Engineers

1688 Woodward Drive,
 Ottawa, Ontario K2C 3R8
 t +1 613 727 5111
 GWAL PROJECT # 2020-408

In Association with

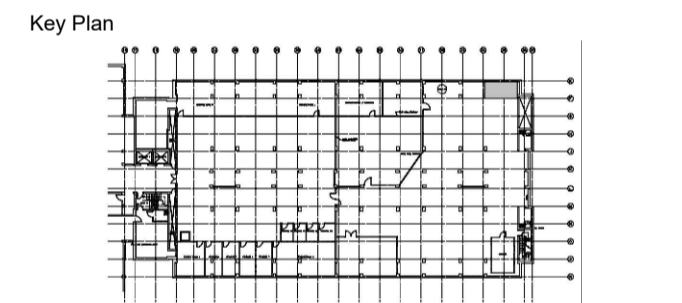
GENERAL LEGEND	
SYMBOL	DESCRIPTION
— — — — —	EXISTING PIPING/DUCTWORK/EQUIPMENT
- - - - -	EXISTING PIPING/DUCTWORK/EQUIPMENT TO BE REMOVED/RELOCATED
— — — — —	NEW/RELOCATED PIPING/DUCTWORK/EQUIPMENT
- - - - -	EXISTING PIPING/DUCTWORK/EQUIPMENT BELOW SLAB
- - - - -	NEW PIPING/DUCTWORK/EQUIPMENT BELOW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

DRAWING LIST	
SYMBOL	DESCRIPTION
M1	MECHANICAL DRAWING LIST, LEGENDS, & SCHEDULES
M2	MECHANICAL BASEMENT WING-A REMOVAL
M3	MECHANICAL BASEMENT WING-A FIRE NEW WORK

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
— F —	FIRE STANDPIPE
— S —	SPRINKLER PIPE
— F/S —	COMBINED STANDPIPE-SPRINKLER PIPE
— FDC —	FIRE DEPARTMENT CONNECTION PIPE
— FP1 —	FIRE PUMP TEST PIPE
○	SEMI-RECESSED SPRINKLER
⊙	UPRIGHT SPRINKLER
○ —	PIPE UP
○ —	PIPE DOWN
⊙	FIRE EXTINGUISHER C/W MOUNTING BRACKET
	FIRE HOSE CABINET
	FIRE DEPARTMENT SIAMESE CONNECTION
	TEST HEADER (500 U.S. GPM) (32 L/S)
	SUPERVISED ISOLATION VALVES
	ISOLATION VALVES
	CHECK VALVE
	FLOW SWITCH
	LOW PRESSURE SWITCH
	PRESSURE SWITCH
	PRESSURE GAUGE
	PRESSURE REDUCING VALVE (PRV)
	RELIEF VALVE
	FIRE PUMP (FP)
	JOCKEY PUMP (JP)
— — — — —	PIPING BELOW GRADE/SLAB
— DCW —	DOMESTIC COLD WATER PIPING
— SAN —	SANITARY PIPING
— CW —	CITY WATER PIPING
⊙ FD1	FLOOR DRAIN (TYPE)
— BCO	FLOOR CLEAN OUT
⊙	PIPE BREAK
⊔	CAP
	BACK FLOW PREVENTER (TYPE)
	WATER METER

FIRE PUMP SCHEDULE										
TAG	LOCATION	FUNCTION	TYPE	SUCTION ORIENTATION	PUMP DATA			ELECTRICAL DATA		REMARKS
					DESIGN FLOW (GPM)	DESIGN HEAD (PSI)	RPM	MOTOR SIZE (HP)	V/PH/Hz	
FP1	NEW PUMP ROOM	FIRE PUMP	VERTICAL INLINE	RIGHT	500	75	3600	40	575/3/60	C/W FIRE PUMP CONTROLLER & ATS CONTROLLER COMBINATION WITH SOFT START/STOP
JP1	NEW PUMP ROOM	JOCKEY PUMP	VERTICAL INLINE	RIGHT	5	85	—	1	575/3/60	—

NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.
 2. MAX BHP SHALL BE LESS THAN MOTOR HP.
 3. CONTROLLER FOR EMERGENCY POWER ULC LISTED.



No.	Description	Date
A	ISSUED FOR 66% REVIEW	13-11-2020
B	ISSUED FOR 99% REVIEW	11-12-2020
C	ISSUED FOR TENDER	19-02-2021
D		
E		
F		
G		
H		

Drawn by: J.CHENG Reviewed by: S.HAMILTON

Project No: C0091

Sheet Title:
MECHANICAL BASEMENT - WING A FIRE PROTECTION REMOVAL

Original drawing is A1. Do not scale contents of this drawing.

Sheet Number

M1

Project
REPLACEMENT OF MAIN FIRE PUMP

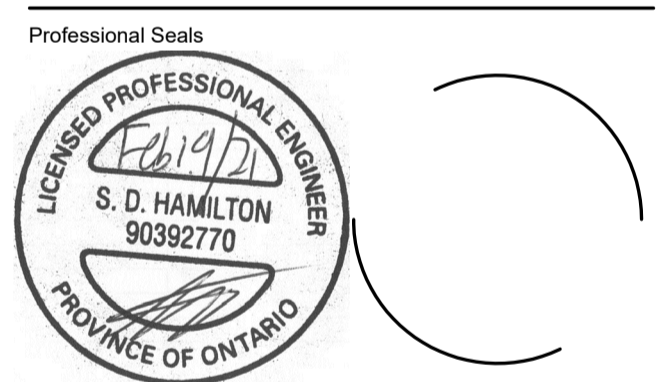
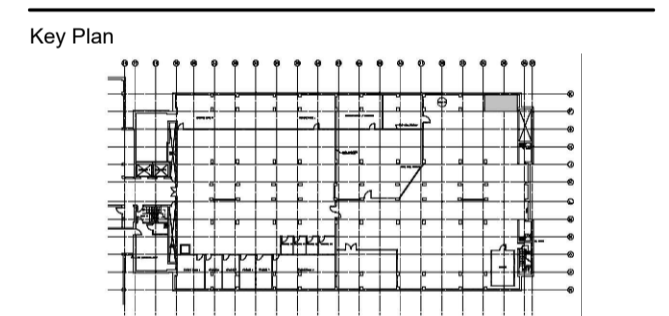
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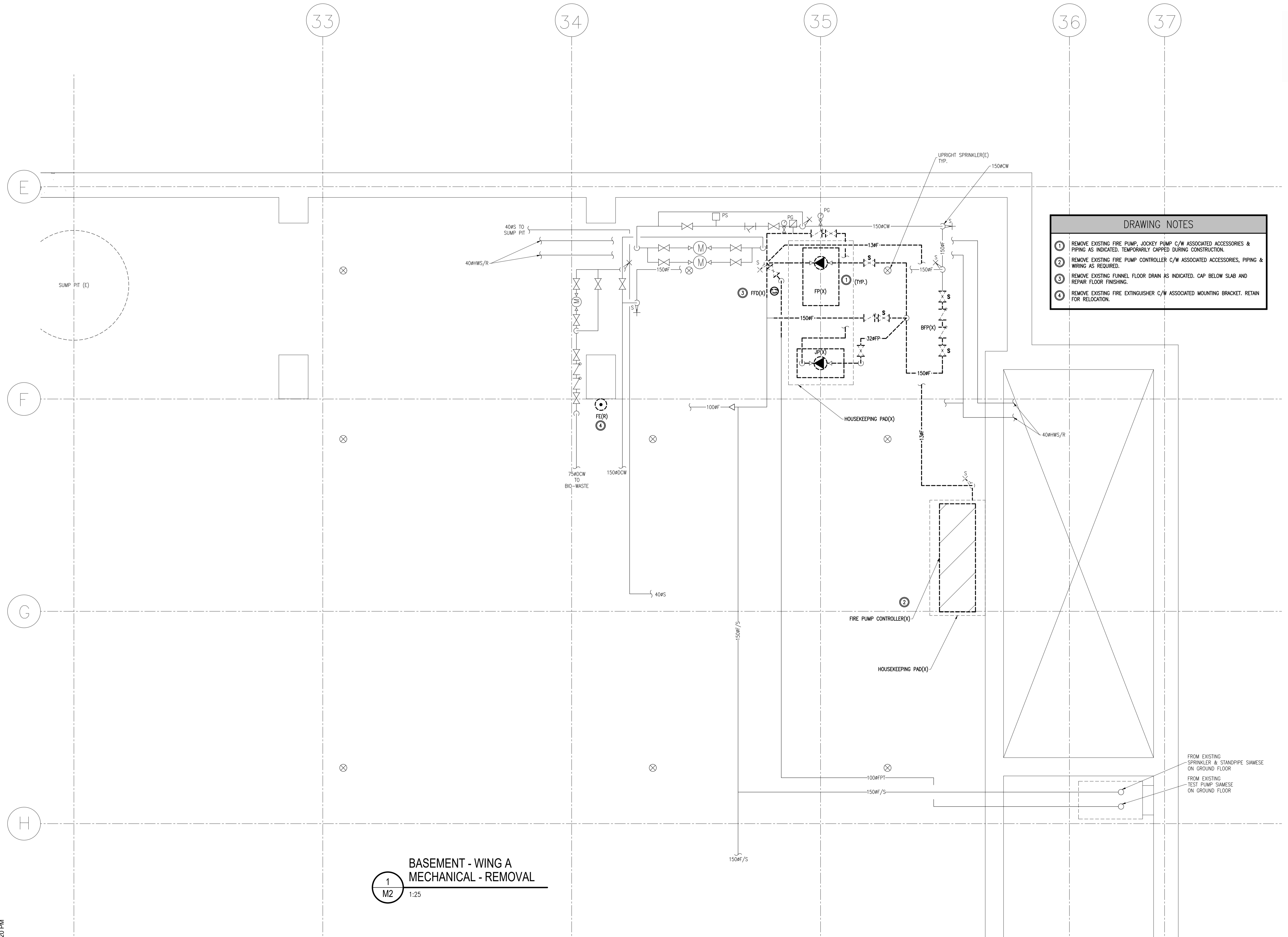
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MECHANICAL BASEMENT - WING A REMOVAL

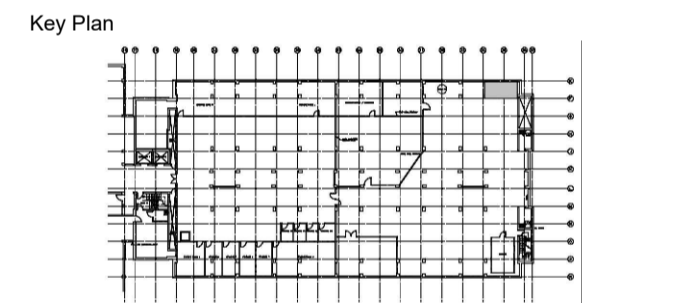
Original drawing is A1. Do not scale contents of this drawing.
 Sheet Number

M2



- DRAWING NOTES**
- REMOVE EXISTING FIRE PUMP, JOCKEY PUMP C/W ASSOCIATED ACCESSORIES & PIPING AS INDICATED. TEMPORARILY CAPPED DURING CONSTRUCTION.
 - REMOVE EXISTING FIRE PUMP CONTROLLER C/W ASSOCIATED ACCESSORIES, PIPING & WIRING AS REQUIRED.
 - REMOVE EXISTING FUNNEL FLOOR DRAIN AS INDICATED. CAP BELOW SLAB AND REPAIR FLOOR FINISHING.
 - REMOVE EXISTING FIRE EXTINGUISHER C/W ASSOCIATED MOUNTING BRACKET. RETAIN FOR RELOCATION.

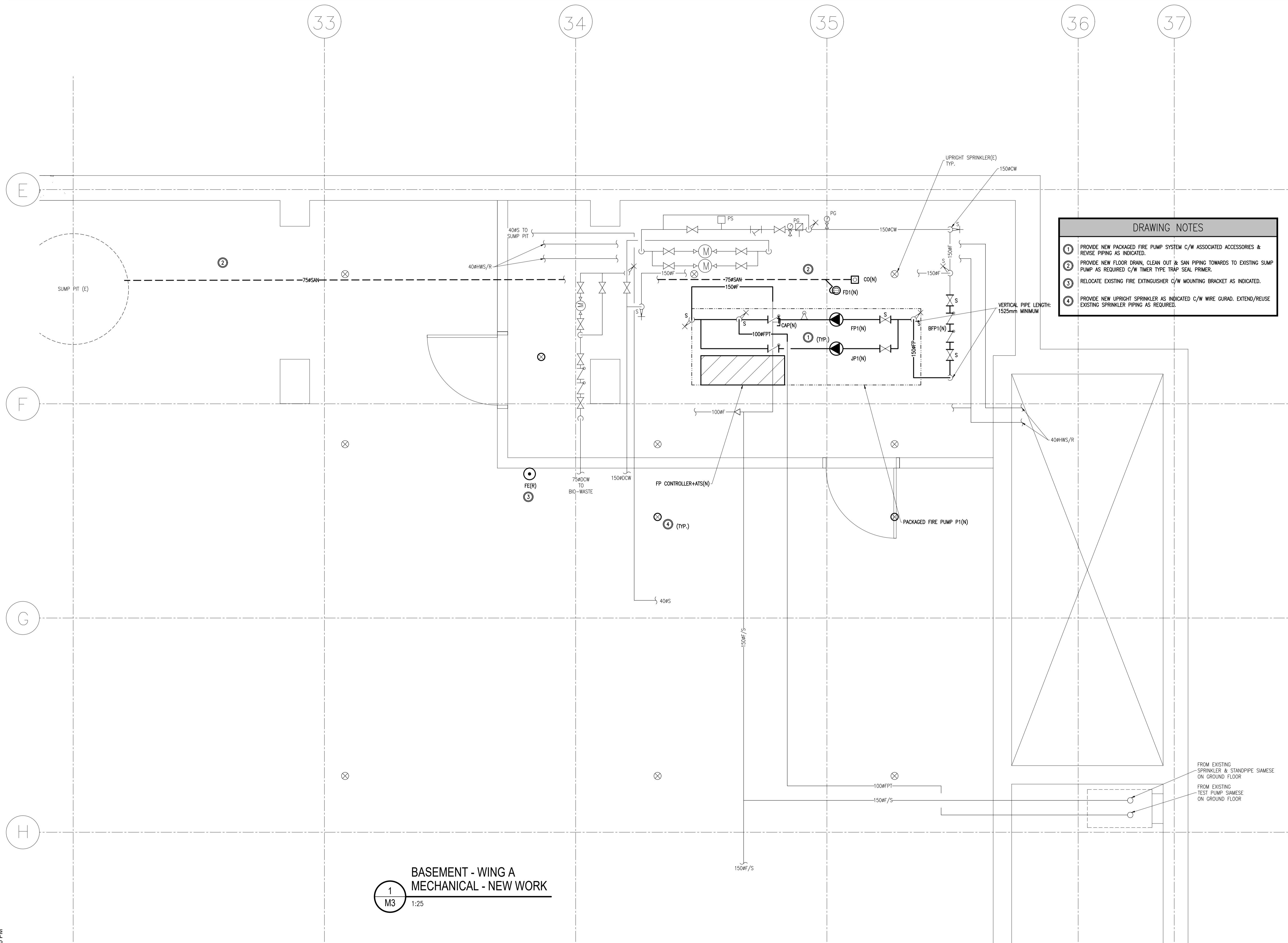
BASEMENT - WING A MECHANICAL - REMOVAL
 1 M2 1:25



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Drawn by: J.CHENG Reviewed by: S.HAMILTON
 Project No: C0091

Sheet Title:
MECHANICAL BASEMENT - WING A NEW WORK



DRAWING NOTES

- PROVIDE NEW PACKAGED FIRE PUMP SYSTEM C/W ASSOCIATED ACCESSORIES & REVISE PIPING AS INDICATED.
- PROVIDE NEW FLOOR DRAIN, CLEAN OUT & SAN PIPING TOWARDS TO EXISTING SUMP PUMP AS REQUIRED C/W TIMER TYPE TRAP SEAL PRIMER.
- RELOCATE EXISTING FIRE EXTINGUISHER C/W MOUNTING BRACKET AS INDICATED.
- PROVIDE NEW UPRIGHT SPRINKLER AS INDICATED C/W WIRE GUARD. EXTEND/REUSE EXISTING SPRINKLER PIPING AS REQUIRED.

BASEMENT - WING A MECHANICAL - NEW WORK
 1 M3 1:25