LEGEN	D - HVAC
	ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.
REFER	DESCRIPTION
—E(NAME)—	EXISTING PIPING TO REMAIN
—— RS ——	REFRIGERANT SUCTION
—— RL ——	REFRIGERANT LIQUID
<u> </u>	PIPING RISER UP
	PIPING DROP
	PIPING RISER UP & DOWN
,	TEE
,	ELBOW - 90°
×	ELBOW - 45°
,	WYE
	REDUCER
	UNION
	FLANGE
	PUMP
 	VERTICAL INLINE PUMP
	STRAINER
*	SAFETY (S) OR RELIEF (R) VALVE
Ž DC	DRAIN COCK
	SOLENOID ELECTRIC VALVE
	VACUUM BREAKER
	BACKFLOW PREVENTOR
	POSITIVE PRESSURE (SUPPLY) DUCT UP
	POSITIVE PRESSURE (SUPPLY) DUCT UP
	NEGATIVE PRESSURE (RETURN) DUCT UP
ĮX.	POSITIVE PRESSURE (SUPPLY) DUCT DOWN
S	POSITIVE PRESSURE (SUPPLY) DUCT DOWN
	NEGATIVE PRESSURE (RETURN) DUCT DOWN
1	EXISTING DUCTWORK TO BE REMOVED
	EXISTING DUCTWORK TO REMAIN
1	NEW DUCTWORK
	SUPPLY AIR DIFFUSER (SQUARE)
	SUPPLY AIR DIFFUSER (ROUND)
	SIDEWALL GRILLE
	RETURN/EXHAUST GRILLE
£ 1	FULL RADIUS DUCT CONNECTION
 	TAP-IN DUCT CONNECTION
	ROUND DUCT CONNECTION
	TURNING VANES
₹ NFD →	FIRE DAMPER
MD	MOTORIZED DAMPER
BD	BALANCING DAMPER
OBBD	OPPOSED BLADE BALANCING DAMPER
OED	OPEN ENDED DUCT
Ō	THERMOSTAT
⊕RAT	REVERSE ACTING THERMOSTAT
Ō	THERMOSTAT c/w TAMPERPROOF COVER
CAP —	CAP

	D - PLUMBING
	ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.
REFER	DESCRIPTION EVICTING DIDING
——E——	EXISTING PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER RECIRC. PIPING
V	VENT PIPING
	SANITARY PIPING ABOVE FLOOR
	SANITARY PIPING BELOW GRADE OR FLOOR
——s—	STORM PIPING ABOVE FLOOR
—-s—-	STORM PIPING BELOW GRADE OR FLOOR
—— NP——	NON-PORTABLE WATER PIPING
—т—	TEMPERED WATER PIPING
——GAS—	GAS PIPING
***********	PIPING TO BE REMOVED
·······	HEAT TRACED PIPING
—Е——	CONNECTION OF NEW AND EXISTING PIPING
	CAPPED PIPE
⊘ FD	FLOOR DRAIN
● FFD	FUNNEL FLOOR DRAIN
⊘ нр	HUB DRAIN
● RD	ROOF DRAIN
● RD	ROOF DRAIN ABOVE
⊕ CD	CANOPY DRAIN
	CLEANOUT IN FLOOR
——I co	CLEANOUT IN LINE OR STACK
(M)	WATER METER
M	GAS METER .
NFWH	NON-FREEZE WALL HYDRANT c/w VACUUM BREAKER
—Ы нв	HOSE BIBB c/w VACUUM BREAKER
$\longrightarrow \bigvee$	ISOLATION VALVE
─ ₩	THROTTLING VALVE
<u></u>	CHECK VALVE
──├ \	CHECK VALVE c/w BALL DRIP VALVE
	STRAINER
▼	GAS VALVE
— RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
——RJPVB	VACUUM BREAKER - PRESSURE TYPE
———PRV	PRESSURE REDUCING VALVE (WATER)
\bowtie	3-WAY VALVE
\$ 1	TEMPERATURE & PRESSURE RELIEF VALVE
-	SOLENOID VALVE
	UNION
O PG	PRESSURE GAUGE
T	THERMOMETER
СВ	CATCH BASIN
S ESV	ELECTRICALLY SUPERVISED VALVE
	DRAIN/TEST VALVE
□FS	FLOW SWITCH
	PUMP
	PIPE DOWN
<u> </u>	PIPE UP
•	PIPE UP & DOWN
	PIPE TEE
E	DENOTES EXISTING
——Е—	EXISTING PIPING
——F——	STANDPIPE PIPING
—— SP ——	SPRINKLER PIPING
S ESV	ELECTRICALLY SUPERVISED VALVE
	DRAIN/TEST VALVE
Fs	FLOW SWITCH
*	FIRE DEPARTMENT PUMPER CONNECTION
€ FEX	FIRE EXTINGUISHER - SURFACE MOUNTED
- 1 - ^	
	FIRE EXTINGUISHER — CABINET
FEC FEC	
	SECURE FIRE EXTINGUISHER CABINET
FEC	

SPRINKLER HEAD - SIDEWALL

	MECHANICAL DRAWING LIST
M1.0	MECHANICAL LEAD SHEET
M2.0	DRAINAGE FLOOR PLAN
м3.0	PLUMBING FLOOR PLAN
M4.0	SPRINKLER FLOOR PLAN
м5.0	HVAC FLOOR PLAN
м6.0	MECHANICAL SCHEDULES
м7.0	MECHANICAL DETAILS - 1
М7.1	MECHANICAL DETAILS - 2

GENERAL NOTES

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR COORDINATION OF GRILLES, DIFFUSERS AND OTHER ELEMENTS.

IN ALL INSTANCES THE NEED FOR ACCESS DOORS IN GWB CEILINGS SHOULD BE AVOIDED IF POSSIBLE. WHERE INSTALLATION OF COMPONENTS WHICH REQUIRE ACCESS CANNOT BE AVOIDED, SUBMIT (DIMENSIONED) LAYOUT ON ARCHITECTURAL REFLECTED CEILING PLANS TO CONSULTANTS FOR APPROVAL PRIOR TO INSTALLATION OF COMPONENT.

EXISTING ITEMS TO BE REMOVED REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DELIVERED TO A LOCATION ON SITE DESIGNATED BY THE OWNER. IF THE OWNER DECLARES NO INTEREST IN THE REMOVED ITEMS, ASSUME OWNERSHIP AND REMOVE THE ITEMS FROM THE SITE.

REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATION FOR PHASING AND STAGING.

PLUMBING NOTES

- CONTRACTOR IS TO VERIFY CONNECTION POINTS TO SERVICES WITH OTHER TRADES ON SITE.
- 2. CONTRACTOR IS TO CLEAR DUCTWORK WHEN INSTALLING NEW PIPING.
- CLEARANCES TO BE VERIFIED ON SITE.
- PROVIDE A CLEANOUT AT THE BOTTOM OF EVERY SOIL AND WASTE STACK THAT CONNECTS TO A HORIZONTAL DRAINAGE PIPE.
- 4. PROVIDE A CLEANOUT FROM EACH PLUMBING FIXTURE WHERE REQUIRED BY ONTARIO BUILDING CODE, PART 7 PLUMBING.
- 5. CHECK AND VERIFY LOCATION OF ALL PIPES, DUCTS AND EQUIPMENT WITH ALL OTHER TRADES TO PREVENT INTERFERENCE. REMOVAL OR RELOCATION OF ANY SUCH WORK INTERFERING WITH WORK OF OTHER TRADES IS THE RESPONSIBILITY OF THE MECHANICAL TRADE CONCERNED UNLESS OTHERWISE APPROVED IN WRITING.
- ALL PLUMBING FIXTURES INCLUDING FLOOR DRAINS (HUB, FUNNEL FLOOR DRAINS) TO BE TRAPPED AND VENTED AS REQUIRED BY ONTARIO BUILDING CODE, PART 7 — PLUMBING.
- 7. FOR MOUNTING HEIGHT OF ALL PLUMBING FIXTURES REFER TO
- ARCHITECTURAL DRAWINGS.

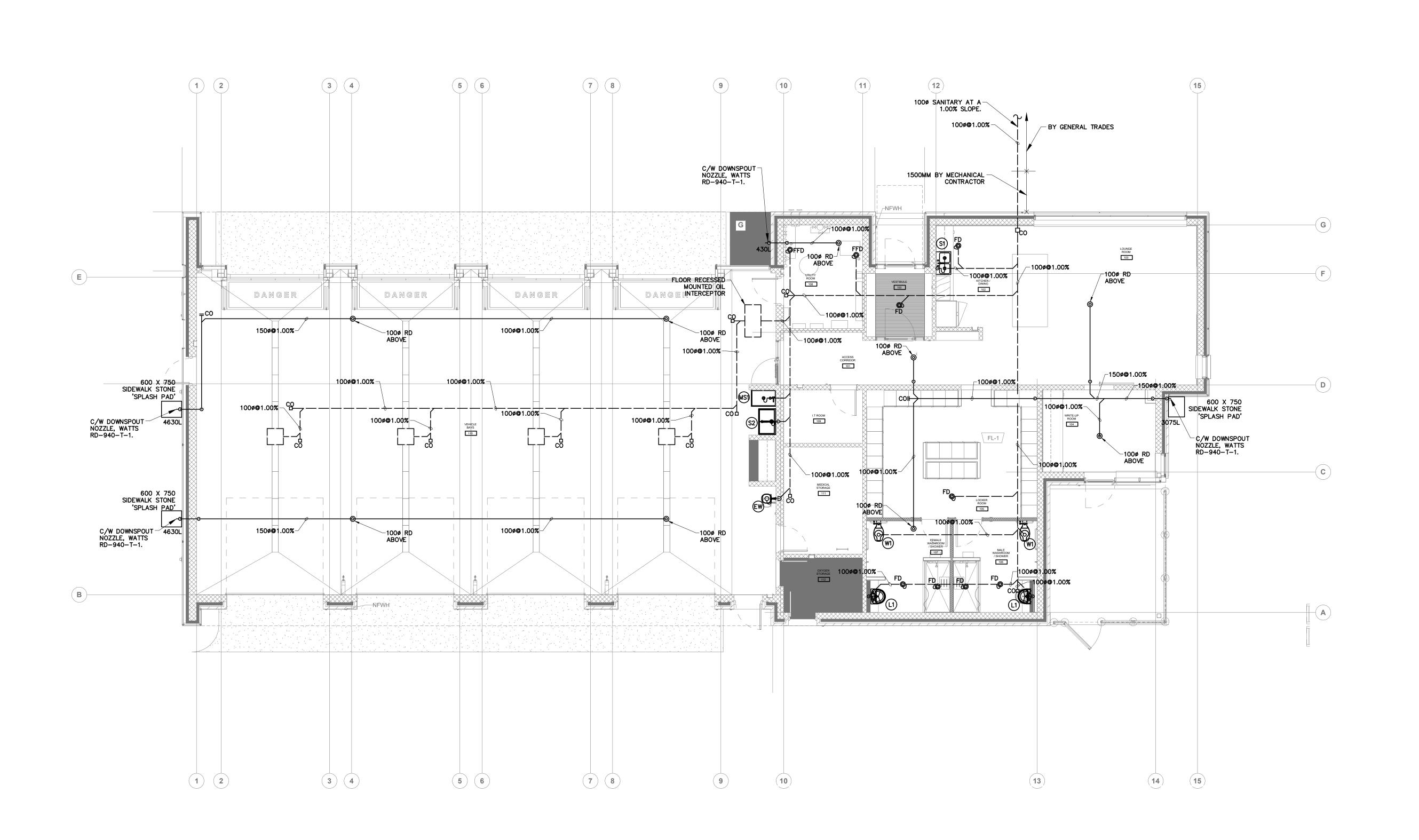
 8. PROVIDE ACCESS DOOR FOR ALL VALVES LOCATED ABOVE DRY WALL
- CEILING.
- 9. PROVIDE ACCESS DOOR FOR ALL CLEANOUTS LOCATED ABOVE DRY WALL CEILING.
- 10. IN ALL INSTANCES THE NEED FOR ACCESS DOOR IN GWB CEILINGS SHOULD BE AVOIDED IF POSSIBLE. WHERE INSTALLATION OF COMPONENTS WHICH REQUIRE ACCESS CANNOT BE AVOIDED, SUBMIT (DIMENSIONED) LAYOUT ON ARCHITECTURAL REFLECTED CEILING PLANS TO CONSULTANTS FOR APPROVAL PRIOR TO INSTALLATION OF COMPONENT.
- 11. PROVIDE SIGN IDENTIFYING LOCATION OF ALL VALVES INSTALLED IN CEILING SPACE.
- 12. ALL WATER, SANITARY, SEWER AND VENT COPPER PIPING WITH SOLDER JOINTS SHALL BE LEAD FREE. DO NOT INSTALL WATER LINES IN OUTSIDE WALL WHERE THEY MAY FREEZE, UNLESS BOTH THE WALL AND THE PIPES ARE PROPERLY INSULATED.
- 13. INSTALL SHUT-OFF VALVES AT EACH PLUMBING FIXTURE.
- 14. REFER TO ARCHITECTURAL FOR OWNER SUPPLIED EQUIPMENT. CONFIRM ALL MECHANICAL REQUIREMENTS AND PROVIDE TO SUIT.

FIRE SUPPRESSION NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL BUILDING CODE, NFPA STANDARDS AND THE ONTARIO BUILDING CODE.



2016-147



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NO. ISSUED FOR DATE

1 ISSUED FOR REVIEW 2018-05-14

2 ISSUED FOR 80% REVIEW 2018-10-02

3 ISSUED FOR 90% DESIGN DEVELOPMENT 2018-11-21

4 ISSUED FOR REVIEW 2019-01-03

5 ISSUED FOR BUILDING PERMIT 2019-03-14

6 ISSUED FOR ADDENDUM ME-1 2019-08-20

7 ISSUED FOR CONSTRUCTION 2020-02-24

ORK REGION PROTATION #29

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CONSULTING MECHANICAL & ELECTRICAL ENGINEERS
2359 Royal Windsor Drive, Suite 201, Misissauga, Ontario L5J 4S9
PHONE: (905)855–3010
www.regal-eng.com



THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

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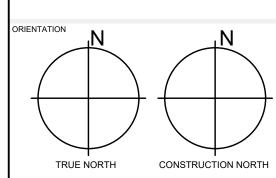
PROFESSIONAL SEAL

Approval to Proceed

Project Phase

Authorization (signature)

DRAINAGE FLOOR
PLAN



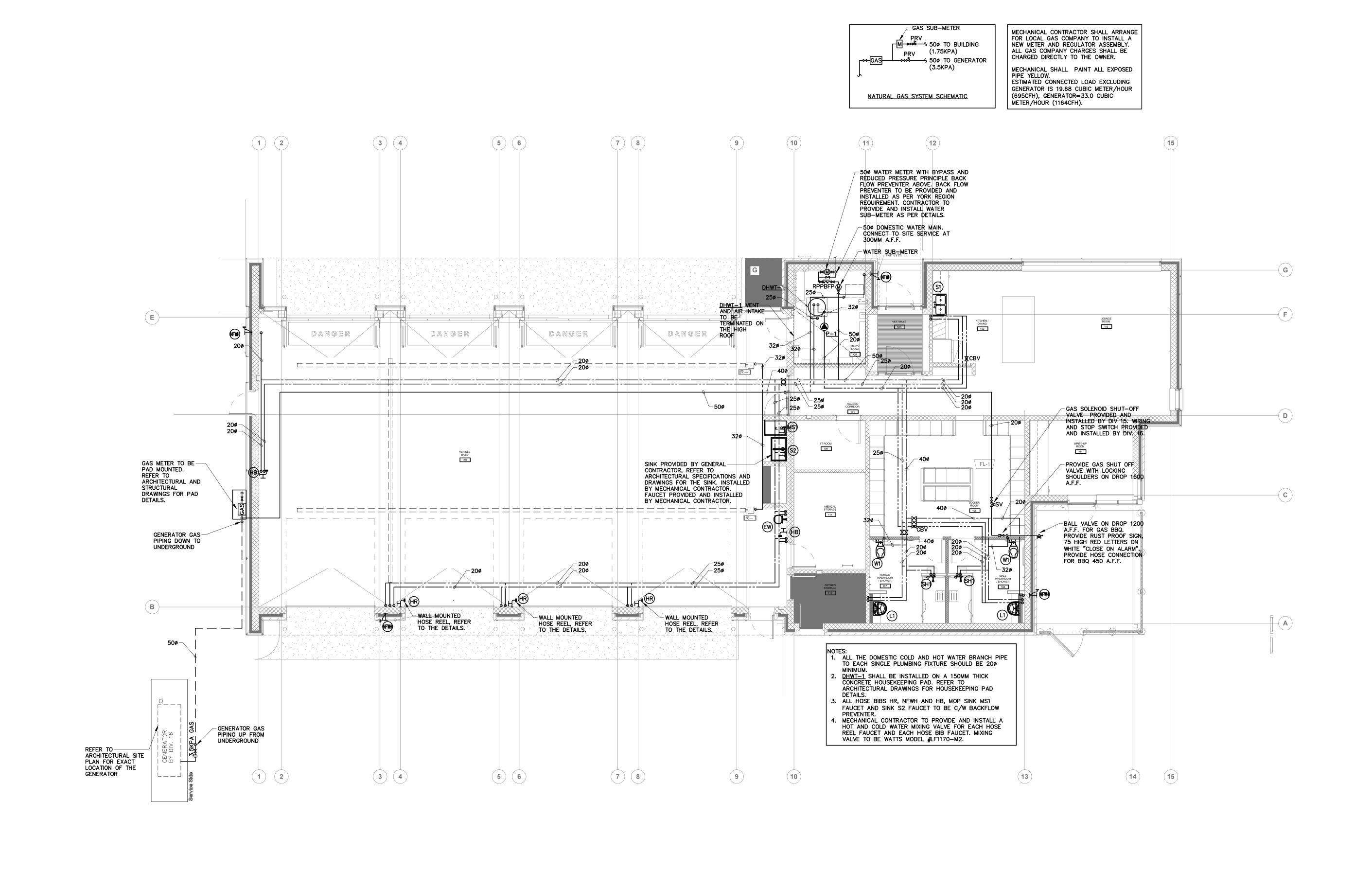
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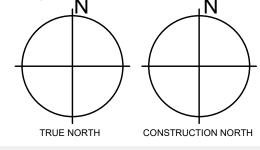
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Project Phase

Authorization (signature)

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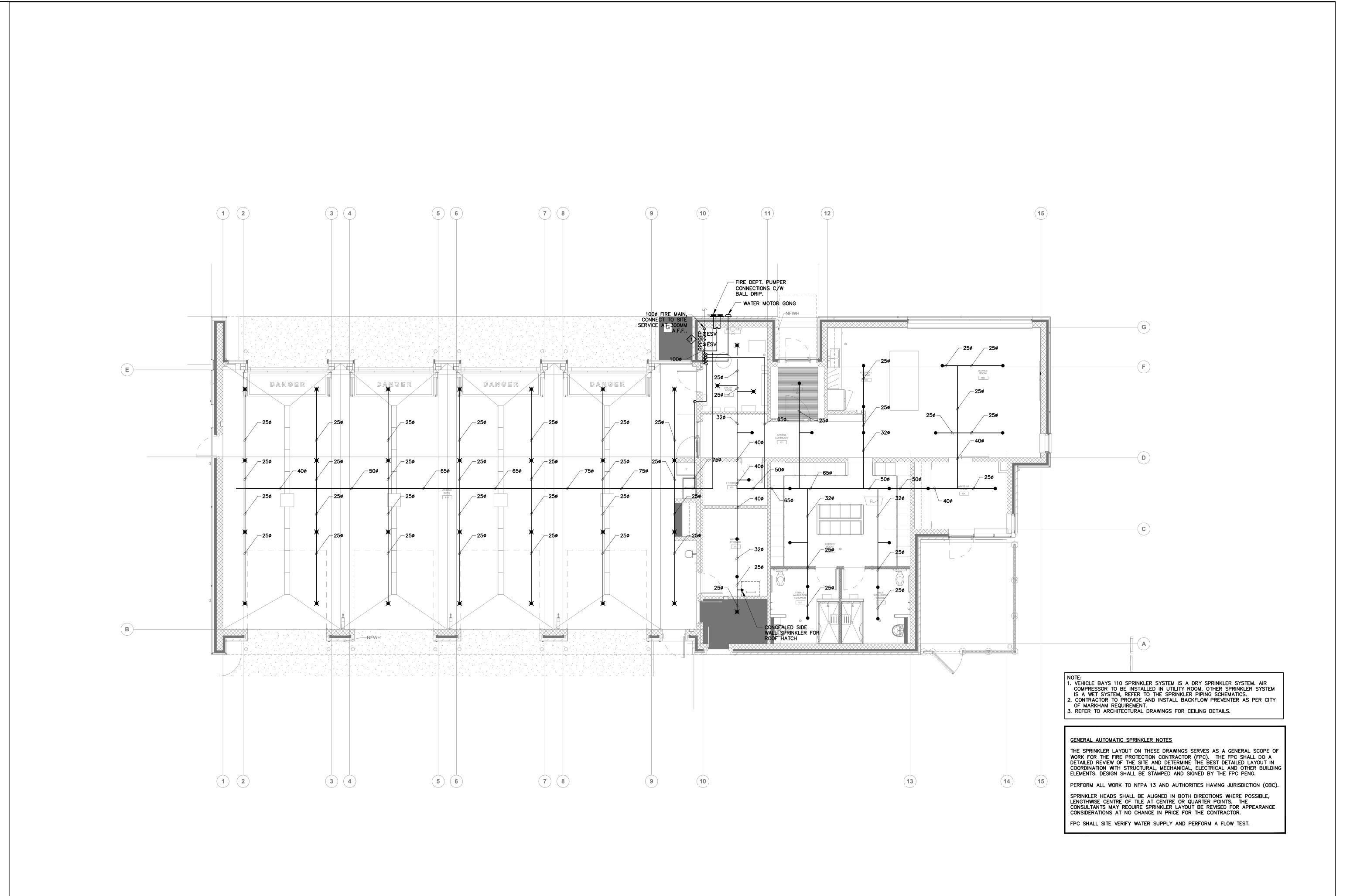
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6 ISSUED FOR ADDENDUM ME-1 7 ISSUED FOR CONSTRUCTION



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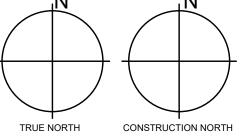
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Authorization (signature)

SPRINKLER FLOOR PLAN

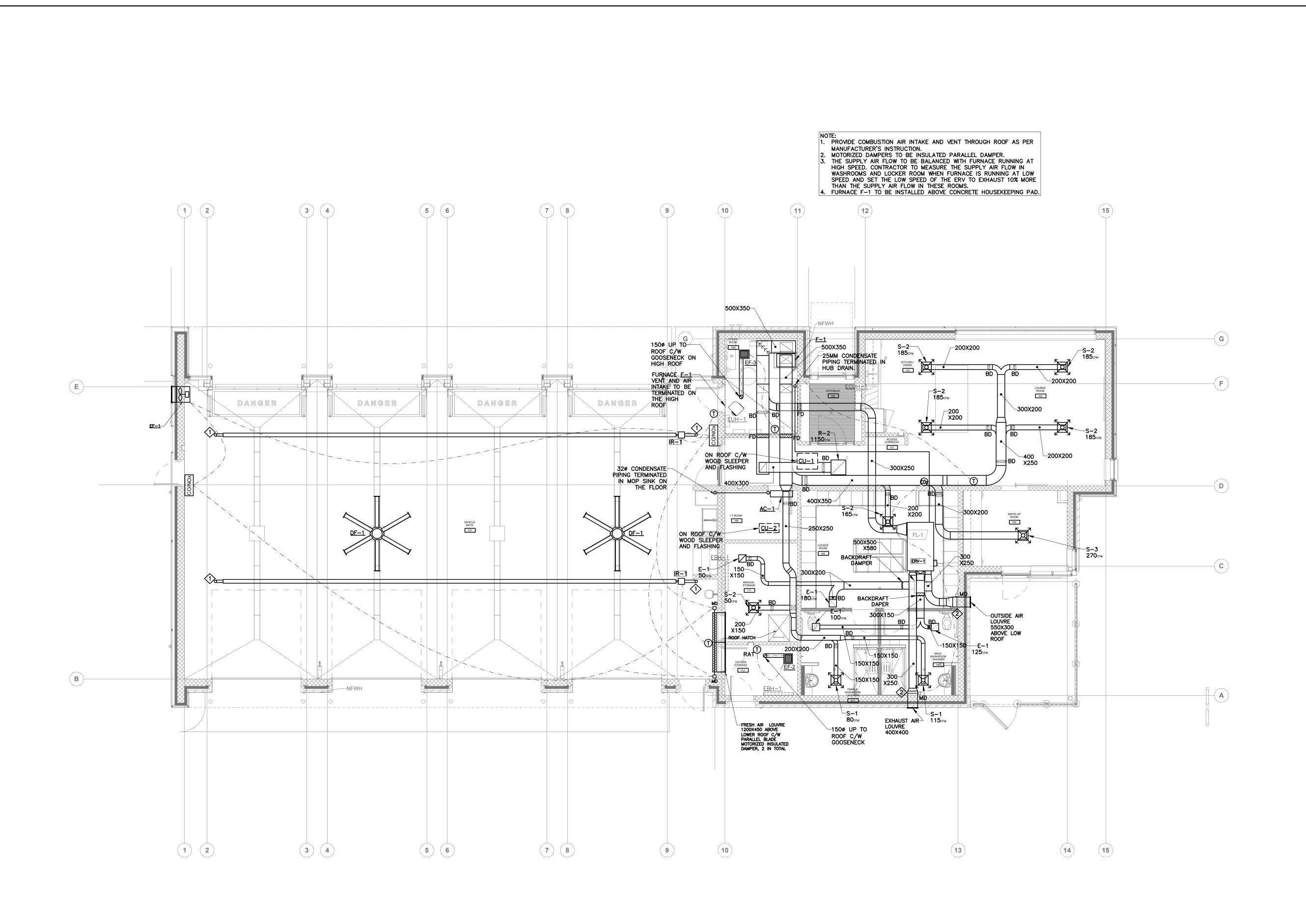




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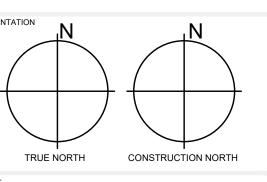
ARCHITECT

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HVAC FLOOR PLAN



Jan. 03, 2019

1:75 DIMC STATUS:

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M5.0

FURNACE	UNIT S	CHEDUL	E									
REFER	AIRFLOW	E.S.P.		COOLING				ELECTRICAL				MANUFACTURER, MODEL AND ACCESSORIES
neren	LPS (CFM)	Pa (IN.W.C.)	TOTAL KW (MBH)	SENSIBLE KW (MBH)	EER	REFRIGERANT	TOTAL KW (MBH)	MOTOR SIZE HP	VOLTAGE	M.C.A.	M.O.C.P.	MANOFACTORER, MODEL AND ACCESSORIES
<u>E1</u>	670 (1420)	175 (0.7)	14.1 (48.0)	-	_	R410a	29.31 (100)	1.0	120V/1/60Hz	14.7	20	CARRIER 59TP6A100E21-20 AND CASED VERTICAL N-COIL CNPVP4821ALA WITH FACTORY INSTALLED THERMOSTATIC EXPANSION VALVE. FURNACE TO BE CONTROLLED BY BAS. OUTSIDE AIR 480 CFM PROVIDED BY ERV.
<u>CU-1</u>		'		_		R410a	-	_	208V/1/60Hz	26.1	40	CARRIER 24ABC648A003

NOTES: 1. ACCEPTABLE ALTERNATES SUBJECT TO SHOP DRAWING REVIEW: TRANE, YORK. 2. REFER TO THE CONTROL SCHEMATICS AND SEQUENCES OF OPERATION.

	AREA	AIR FLOW	E.S.P.		ELECTRICAL		FAN	OPERATING		MANUEL OTUDED MODEL AND AGGEOGOPIEG
REFER	SERVED	LPS (CFM)		MOTOR SIZE	VOLTAGE	DRIVE	SPEED RPM	WEIGHT KG (LBS)	SONES	MANUFACTURER, MODEL AND ACCESSORIES
EF-1	VEHICLE BAYS [128]	1558.1 (3300)	63.5 (0.25)	3/4 HP	115V/1ø/60Hz	BELT	1188	49.5 (109)	8.9	COOK XPD, 18XP29D132; COMPLETE WITH PRE-WIRED FLEX-CONDT, GRAVITY BACKDRAFT DAMPER ALUM, SHUTTER GUARD-STL, FAN SPEED CONTROLLER.
EF-2	OXYGEN STORAGE [112]	47 (100)	127 (0.5)	86 WATTS	115V/1ø/60Hz	DIRECT	900	-	2.7	COOK GEMINI GC-144; COMPLETE WITH WHITE METAL FACE GRILL, 100 SERIES DAMPER AND ISOLATOR KIT. C/W LINE VOLTAGE REVERSE ACTING THERMOSTAT
EF-3	UПLITY ROOM [108]	47 (100)	127 (0.5)	86 WATTS	115V/1ø/60Hz	DIRECT	900	-	2.7	COOK GEMINI GC-144; COMPLETE WITH WHITE METAL FACE GRILL, 100 SERIES DAMPER AND ISOLATOR KIT. CONTROL BY BAS VIA TEMPERATURE SENSOR. MECHANICAL CONTRACTOR TO PROVIDE HAND-OFF-AUTO STARTER INSTALLED IN THE ROOM BY ELECTRICAL CONTRACTOR.

NOTES: 1. ALL FANS SHALL INCLUDE VIBRATION ISLOATION AND STARTERS.
2. REFER TO THE CONTROL SCHEMATICS AND SEQUENCES OF OPERATION.
3. ACCEPTABLE ALTERNATES SUBJECT TI SHOP DRAWING REVIEW: COOK, CARNES, GREENHECK, REVERSOMATIC, BROAN.

HE	EAT RE	COVE	RY VEN	TILAT	FOR												
SYMBOL	SUPPLY FAN EXHAUST FAN							T TEMP. EFFICIENCY EI		ELEC	CTRICAL	DEMARKO					
STMBOL	AIR VOLUME (CFM)	EXT. S.P. (IN.WG.)	AIR VOLUME (CFM)	EXT. S.P. (IN.WG.)	I	SUMMER DB/WB(°F)		SUMMER DB/WB(°F)		SUMMER DB/WB(°F)			WINTER	SUMMER	VOLTAGE	MCA MOP	REMARKS
ERV-1	480	0.5	455	0.5	-5.0/ -5.0	88.0/ 73.0	72.0/ 55.0	75.0/ 63.0	62.4/ 47.5	78.0/ 70.2	34.9/ 7.7	-5.2	87.5%	77.1%	208/3/60	11 0 15 0	TEMPEFF RGSP 600 C/W EC MOTOR, MODULATION CONTROLLED BY BAS. ERV TO BE WITH REMOVABLE PANELS FOR ACCESS THE CORES ON THE SIDE OF THE UNIT.

					PLUMB	NG FIXT	TURE CO	ONNECT	TON SC	HEDULI		
T10	EWEL PALAMAS	SANI	TARY	VE	NT	DC	WS	DH	WS	TEMP	PERED	REMARKS
TAG	FIXTURN NAME	ММ	INS	MM	INS	ММ	INS	MM	INS	ММ	INS	
W1	BARRIER FREE FLUSH VALVE WATER CLOSET	75	3.00	38	1.50	32	1.25	-	-	-	-	
L1	BARRIER FREE COUNTERTOP LAVATORY	32	1.25	32	1.25	13	0.50	13	0.50	13	0.5	
SH1	BARRIER FREE SHOWER	-	-	1	-	13	0.50	13	0.50	19	0.75	
SH1	SHOWER HEAD SET	-	-	-	-	13	0.50	13	0.50	19	0.75	
S1	SINGLE COMPARTMENT STAINLESS STEEL SINK	38	1.50	32	1.25	13	0.50	13	0.50	-	-	
S2	SINK PROVIDED BY GENERAL CONTRACTOR, REFER TO ARCHITECTURAL SPECIFICATIONS, FAUCET PROVIDE BY MECHANICAL CONTRACTOR	38	1.50	32	1.25	13	0.50	13	0.50	-	-	
MS1	MOP SINK	75	3.00	38	1.50	19	0.75	19	0.75	-	-	
EW	EMERGENCY EYE WASH	32	1.25	32	1.25	19	0.75	19	0.75	19	0.75	
НВ	HOSE BIB	-	-	-	-	13	0.50	13	0.50	13	0.50	
HR	HOSE REEL	-	-	-	-	13	0.50	13	1.50	13	1.50	
NFWH	NON-FROZEN WALL HYDRANT	-	-	-	-	13	0.50	-	-	-	-	
FD	FLOOR DRAIN	75	3.00	38	1.50	10	0.38	-	-	-	-	
FFD	FUNNEL FLOOR DRAIN	75	3.00	38	1.50	10	0.38	-	-	-	-	
TSP	TRAP SEAL PRIMER	-	-	-	-	10/13	0.38/0.50	-	-	-	-	ONE - 10MM/0.38" PER FD, FFD, HD, PD

AC	AC UNIT SCHEDULE											
REFER	AIRFLOW	E.S.P.		COOLING				ELECTRICAL				MANUFACTURER, MODEL AND ACCESSORIES
HEFER	CFM	IN.W.C.	TOTAL MBH	SENSIBLE MBH	EER	REFRIGERANT	TOTAL MBH	MOTOR SIZE KW	VOLTAGE	M.C.A.	M.O.C.P.	MANUFACTURER, MODEL AND ACCESSORIES
AC-1	425	_	18.0	_	-	R410a	_	0.03	230V/1/60Hz, FROM CU-3	_	_	MITSUBISHI PKA-A18HA6
<u>CU-2</u>	ı	_	18.0	_	_	R410a	_	_	230V/1/60Hz	13	15	MITSUBISHI PUY-A18NHA6. C/W ULTRA LOW AMBIENT KIT (-40°F)

NOTES: BASIS IF DESIGN IS MITSUBISHI. EQUIVALENT PRODUCT MATCHING THE SPECIFICATIONS BY SAMSUNG, LG DAIKIN TO BE TREATED AS EQUAL.

RETU	RN/ EXHAU	ST GRILLE	SCHE	DULE		
SYMBOL	SIZE MM x MM (IN. x IN.)	APPLICATION	NECK SIZE MM+ (INS+)	AIRFLOW RANGE CFM	NC RANGE	MANUFACTURER AND MODEL (BASIS OF DEISN: E.H. PRICE)
R-1 E-1 CFM CFM	300x300 (12x12)	CEILING GRILLE	-	<450	<30	80D
R-2 CFM	600x600 (24x24)	CEILING GRILLE	-	<1600	<30	80D

NOTE(S): 1. ACCEPTABLE ALTERNATES SUBJECT TO SHOP DRAWING REVIEW: TITUS, METALAIRE, KRUEGER.

DIFFU	JSER SCHE	DULE				
SYMBOL	SIZE MM x MM (IN. x IN.)	APPLICATION	NECK SIZE MM+ (INS+)	AIRFLOW RANGE CFM	NC RANGE	MANUFACTURER AND MODEL (BASIS OF DEISN: E.H. PRICE)
S-1 CFM	600x600 (24x24)	4 WAY CEILING DIFFUSER	150 (6)	0-135	<30	SCD
S-2 CFM	600x600 (24x24)	4 WAY CEILING DIFFUSER	200 (8)	136-250	<30	SCD
S-3 CFM	600x600 (24x24)	4 WAY CEILING DIFFUSER	200 (10)	251-350	<30	SCD

NOTE(S): 1. ACCEPTABLE ALTERNATES SUBJECT TO SHOP DRAWING REVIEW: TITUS, METALAIRE, KRUEGER.

ELECT	ELECTRIC CABINET UNIT HEATER SCHEDULE									
SYMBOL	CAPACITY (KW)	REMARK								
ECUH-1	3.00	PROVIDED AND INSTALLED BY DIV. 16								

ELECT	ELECTRIC BASEBOARD HEATER SCHEDULE								
SYMBOL	CAPACITY (KW)	REMARK							
EBH-1	0.75	PROVIDED AND INSTALLED BY DIV. 16. CONTROLLED BE BAS.							

ELECT	ELECTRIC UNIT HEATER SCHEDULE							
SYMBOL	CAPACITY (KW)	REMARK						
EUH-1	2.0	PROVIDED AND INSTALLED BY DIV. 16. CONTROLLED BY BAS.						

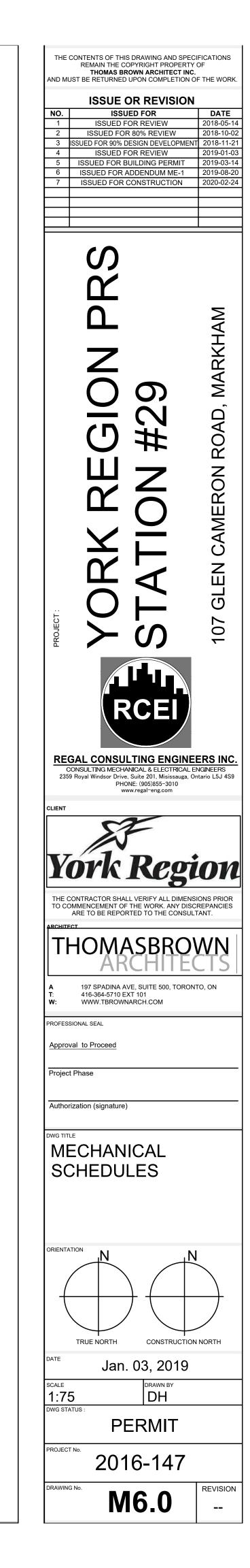
DE	DE-STRATIFICATION FAN SCHEDULE										
SYMBOL				MOTOR		MODEL					
DF-1	APPARATUS BAY	CEILING SUSPENDED	1.0	120/1/60	ONBOARD VFD CONTROLLER	124	BIG ASS BASIC 6, FAN DIAMETER 3000MM, C/W WALL-MOUNTED KEYPAD SAFETY CABLE. INSTALLATION HEIGHT TO BE CONFIRMED ON SITE.				

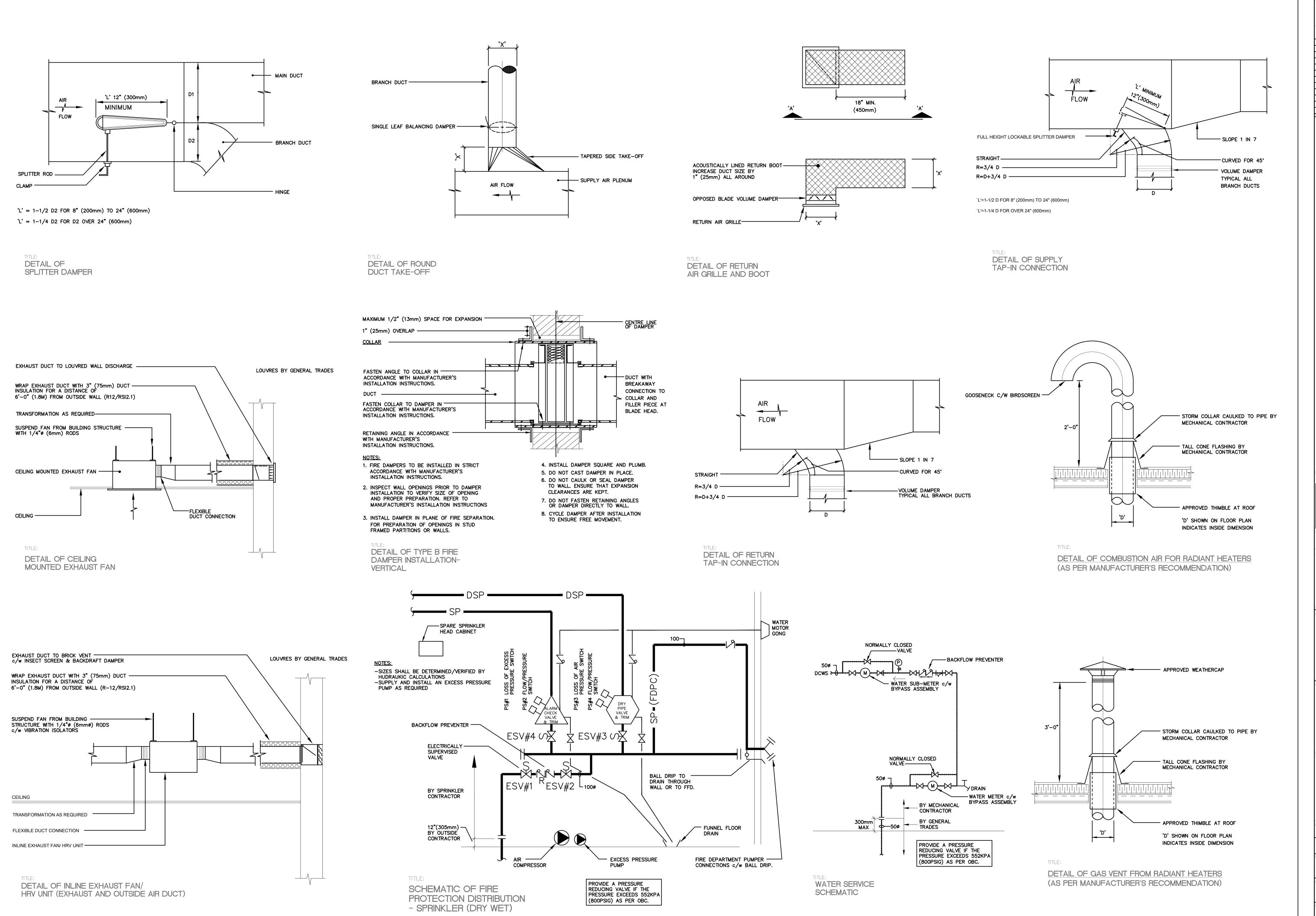
RADIANT TUBE HEATER SCHEDULE									
OVADOL	CAPACITY	ELECTRICAL		OPRATING	MODEL (DAGIO OF DEGICAL COLUMNA)				
SYMBOL	GAS INPUT MBH	AMPS	VOLTAGE	WEIGHT LBS	MODEL (BASIS OF DESIGN: SCHWANK				
IR-1	200	145VA	120/1/60	518	SCHWANK MODEL UHE 200-60. HEATERS ARE TO BE MOUNTED HORIZONTALLY. EACH RADIANT TUBE HEATER TO BE CONTROLLED BY A SCHWANK TRUTEMP MEAN RADIANT TEMPERATURE THERMOSTAT THROUGH BAS AND INTERLOCKED WITH OVERHEAD DOORS AND FOLDING DOORS THROUGH BAS.				

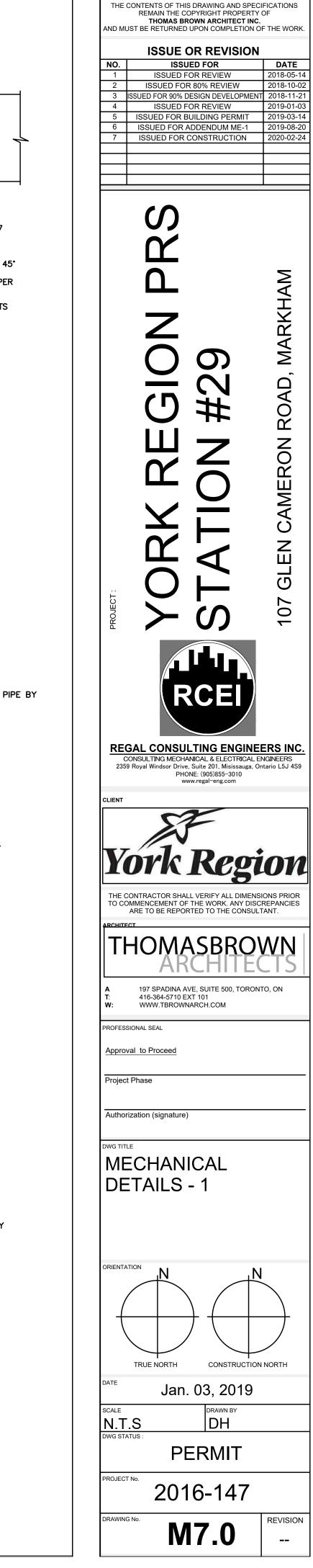
DOMESTIC HOT WATER TANK									
SYMBOL/AREA	INPUT STORAGE CAPACITY		RECOVERY RATE • 100°F RISE		REMARKS				
	мвн	GALLON	GPH	VOLTAGE	TIENALIKO				
DHWT-1	120	60	138	120/1/60	A.O. SMITH CYCLONE MXI BTH-120(A). NATURAL GAS.				

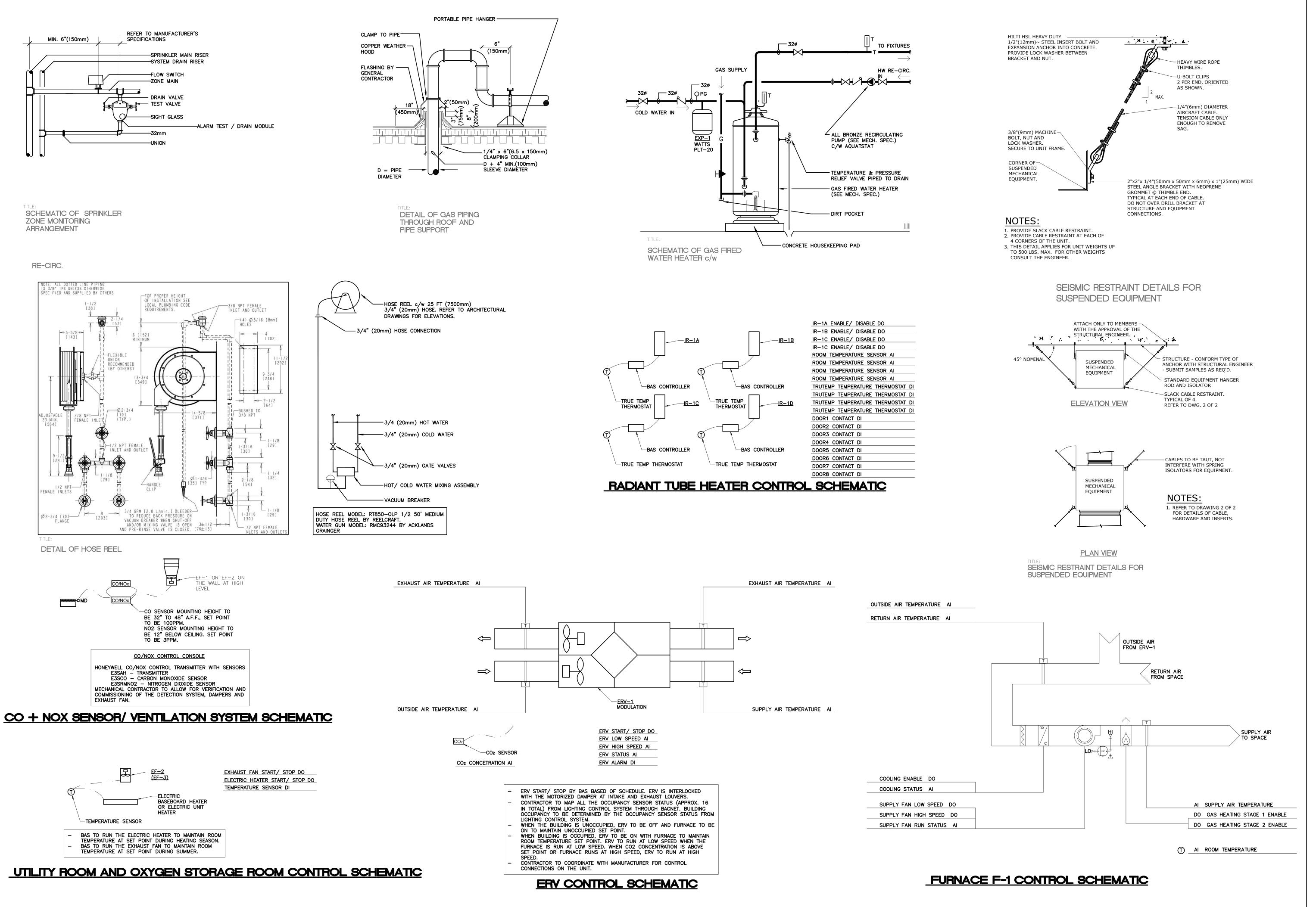
PUMF	SCHEDULE							
REF:	SYSTEM	PERFORMANCE			ELECTRICAL DATA			DENAADKO
		FLUID	GPM	FT. HEAD	RPM	MOTOR HP	VOLTAGE	REMARKS
P-1	DOMESTIC HOT WATER RECIRCULATING PUMP	WATER	4.0	3.0	1800	1/40	120/1/60	TACO MODEL PLUMB 'n' PLUG C/W AQUASTAT OR APPROVED EQUIVALENT. CONTROLLED BY BAS.

EXPANSION TANK SCHEDULE								
SYMBOL	LOCATION/SERVICE	ON/SERVICE MODEL No.		ACCEPTANCE VOLUME LITERS (GAL.)	REMARKS			
EXP-1	MECH/ELEC ROOM 111 DOMESTIC HOT WATER RETURN	PLT-20	32.1 (8.5)	12.9 (3.4)	WATTS PLT-20			









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M7.1