

EQUIPMENT TAGS	
AHU-#	AIR HANDLING UNIT
AS-#	AIR SEPARATOR
B-#	BOILER
CP-#	CONDENSATE PUMP
CPF-#	CHEMICAL POT FEEDER
CU-#	CONDENSING UNIT
BFP-#	BACKFLOW PREVENTER
DWH-#	DOMESTIC WATER HEATER
EF-#	EXHAUST FAN
EXP-#	EXPANSION TANK
ERV-#	ENERGY RECOVERY VENTILATOR
FF-#	FORCE FLOW
GMU-#	GLYCOL MAKE-UP UNIT
G-#	GRILLE
HF-#	HYDRONIC FILTER
HP-#	HEAT PUMP
HS-#	HYDRAULIC SEPARATOR
MNF-#	INFLOOR HEATING MANIFOLD
MUA-#	MAKE-UP AIR UNIT
PU-#	PUMP
RAD-#	RADIATOR
RCP-#	RECIRC PUMP
RHD-#	RANGE HOOD
SK-#	SINK
UH-#	UNIT HEATER
WM-#	WATER METER
WS-#	WATER SOFTENER

ABBREVIATIONS LIST	
C	CONDENSATE
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRC
HGR	HOT GLYCOL RETURN
HGS	HOT GLYCOL SUPPLY
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
NG	NATURAL GAS
RL	REFRIGERANT LIQUID
RS	REFRIGERANT STEAM
SAN	SANITARY SEWER

PIPING/PLUMBING SYMBOLS	
	NEW PLUMBING EQUIPMENT
	NEW PIPING
	EXISTING PLUMBING EQUIPMENT/PIPING
	UNDER SLAB PIPING
	INSULATED PIPE
	PIPE DOWN
	PIPE UP
	3-WAY VALVE
	BALANCE VALVE
	BALL VALVE (NORMALLY CLOSED)
	BALL VALVE
	BUTTERFLY VALVE
	CAP / SANITARY CLEANOUT
	CHECK VALVE
	CHEMICAL POT FEEDER
	2-WAY CONTROL VALVE
	DRAIN
	FILTER
	FLANGE
	FLEXIBLE CONNECTION
	GATE VALVE (NORMALLY CLOSED)
	GATE VALVE
	HOSE BIBB
	PRESSURE REDUCING VALVE
	REDUCER
	PRESSURE RELIEF VALVE
	SITE GLASS
	STRAINER
	THERMOMETER
	PRESSURE GAUGE
	TRIPLE DUTY VALVE (RIGHT ANGLE PATTERN)
	UNION
	ARROW FLOW DIRECTION

HVAC SYMBOLS	
	NEW HVAC EQUIPMENT
	NEW DUCTWORK
	EXISTING HVAC EQUIPMENT/DUCTWORK
	ACCOUSTICALLY INSULATED DUCTWORK
	RETURN/EXHAUST DUCT DOWN
	RETURN/EXHAUST DUCT UP
	SUPPLY DUCT DOWN
	SUPPLY DUCT UP
	BACKDRAFT DAMPER C/W DUCT ACCESS DOOR
	MOTORIZED DAMPER C/W DUCT ACCESS DOOR
	AIR FLOW DIRECTION

CONTROLS SYMBOLS	
	CONTROL WIRING
	FLOW SWITCH
	PRESSURE SENSOR
	TEMPERATURE SENSOR
	THERMOSTAT

DEMOLITION SYMBOLS	
	EQUIPMENT/MATERIALS TO REMAIN
	EQUIPMENT/MATERIALS TO BE REMOVED

DEMOLITION GENERAL NOTES	
1.	PERFORM WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
2.	EQUIPMENT LOCATIONS AND PIPE ROUTING INDICATED ON THE DRAWINGS IS APPROXIMATE ONLY. CONFIRM IN THE FIELD. REROUTE PIPING AS REQUIRED TO ELIMINATE FIELD INTERFERENCES, WITH BUILDING STRUCTURES, ELECTRICAL, ETC.. CONFIRM CHANGES WITH CONSULTANT. CO-ORDINATE WORK WITH ALL SUBTRADES. WHERE DIMENSIONS ARE INDICATED FOR PIPING EQUIPMENT SIZES, ETC. THESE ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING EQUIPMENT AND COMMENCING INSTALLATION WITHOUT EXTRA CHARGES TO THE PROJECT. THE CONTRACTOR IS RESPONSIBLE TO ENSURE ALL EQUIPMENT, DUCTWORK AND PIPING FITS IN THE SPACE AVAILABLE AND TO MAINTAIN THE GENERAL DESIGN INTENT FOR THE SYSTEMS.
3.	ALL REMOVED EQUIPMENT SHALL BE DISPOSED OFF SITE. CONFIRM WORK WITH OWNER IF ANY MATERIAL SHALL BE TURNED OVER TO OWNER.
4.	SEAL ALL OPENINGS REMAINING FROM REMOVED EQUIPMENT, DUCTWORK, AND PIPING AND MAKE GOOD.
5.	IN THE EVENT THERE ARE DISCREPANCIES ON THE DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL REQUEST CLARIFICATION FROM THE CONSULTANT PRIOR TO CLOSE OF TENDERS AND PRIOR TO PROCEEDING WITH CONSTRUCTION. CLARIFICATION WILL BE PROVIDED WITH THE INTENT OF ELIMINATING EXTRA COST TO THE CONTRACT.

PLUMBING GENERAL NOTES	
1.	CONFORM TO MANITOBA PLUMBING CODE AND ALL LOCAL CODES AND AUTHORITY HAVING JURISDICTION FOR DESIGN, SUPPLY AND INSTALLATION OF PLUMBING AND VENT SYSTEM. VENT CONCEALED INSIDE WALLS ACCORDING TO CODE. MINIMIZE ROOF PENETRATIONS.
2.	EQUIPMENT LOCATIONS AND PIPE ROUTING INDICATED ON THE DRAWINGS IS APPROXIMATE ONLY. CONFIRM IN THE FIELD. REROUTE PIPING AS REQUIRED TO ELIMINATE FIELD INTERFERENCES, WITH BUILDING STRUCTURES, ELECTRICAL, ETC.. CONFIRM CHANGES WITH CONSULTANT. CO-ORDINATE WORK WITH ALL SUBTRADES. WHERE DIMENSIONS ARE INDICATED FOR PIPING EQUIPMENT SIZES, ETC. THESE ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING EQUIPMENT AND COMMENCING INSTALLATION WITHOUT EXTRA CHARGES TO THE PROJECT. THE CONTRACTOR IS RESPONSIBLE TO ENSURE ALL EQUIPMENT, DUCTWORK AND PIPING FITS IN THE SPACE AVAILABLE AND TO MAINTAIN THE GENERAL DESIGN INTENT FOR THE SYSTEMS.
3.	CONFIRM ADEQUATE PIPE SLOPES EXIST FOR ALL NEW DRAINAGE PIPING.
4.	PROVIDE TRAPS & TRAP PRIMERS FOR ALL NEW FLOOR DRAINS.
5.	PROVIDE CLEANOUTS AS PER PLUMBING CODE. LOCATE IN CEILING SPACE OR CRAWLSPACE WHEREVER POSSIBLE TO AVOID WALL PLATES.
6.	INSULATE DOMESTIC HOT WATER (DHW), DOMESTIC WATER RECIRCULATION (DHWR) AND DOMESTIC COLD WATER (DCW) PIPING. RUN PIPING IN CEILING SPACE DOWN TO FIXTURES INSIDE PLUMBING WALLS.
7.	PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR NEW PIPING (WATER AND DRAINAGE). FINISH ALL PENETRATIONS AND MAKE GOOD.
8.	PROVIDE SHUT-OFF VALVES AT ALL FIXTURES, WATER TANKS, AND WATER HAMMER ARRESTERS AT ENDS OF ALL PIPE RUNS.
9.	IN THE EVENT THERE ARE DISCREPANCIES ON THE DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL REQUEST CLARIFICATION FROM THE CONSULTANT PRIOR TO CLOSE OF TENDERS AND PRIOR TO PROCEEDING WITH CONSTRUCTION. CLARIFICATION WILL BE PROVIDED WITH THE INTENT OF ELIMINATING EXTRA COST TO THE CONTRACT.
10.	VENTING FOR DRAINAGE SYSTEM MAY NOT BE SHOWN. PROVIDE VENTING FOR DRAINAGE SYSTEM IN ACCORDANCE WITH THE MANITOBA PLUMBING CODE. ARRANGE TO MINIMIZE NUMBER OF ROOF PENETRATIONS.
11.	PLUMBING TRAPS FOR DRAINAGE SYSTEM MAY NOT BE SHOWN. PROVIDE TRAPS FOR DRAINAGE SYSTEM IN ACCORDANCE WITH APPLICABLE PLUMBING CODE.

HVAC GENERAL NOTES	
1.	PERFORM WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
2.	REVIEW EQUIPMENT LOCATIONS WITH CONSULTANT PRIOR TO INSTALLATION.
3.	EQUIPMENT LOCATIONS, DUCT, AND PIPE ROUTING INDICATED ON THE DRAWINGS IS APPROXIMATE ONLY. CONFIRM IN THE FIELD. REROUTE DUCTWORK AND PIPING AS REQUIRED TO ELIMINATE FIELD INTERFERENCES. WITH BUILDING STRUCTURES, ELECTRICAL, ETC. CONFIRM CHANGES WITH CONSULTANT. COORDINATE WORK WITH ALL SUBTRADES. WHERE DIMENSIONS ARE INDICATED FOR PIPING, DUCTWORK, DUCT SIZES, EQUIPMENT SIZES, ETC. THESE ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING EQUIPMENT AND COMMENCING INSTALLATION WITHOUT EXTRA CHARGES TO THE PROJECT. THE CONTRACTOR IS RESPONSIBLE TO ENSURE ALL EQUIPMENT, DUCTWORK, AND PIPING FITS IN THE SPACE AVAILABLE AND TO MAINTAIN THE GENERAL DESIGN INTENT FOR THE SYSTEMS.
4.	CONFORM TO SMACNA STANDARDS FOR SUPPLY AND INSTALLATION OF DUCTWORK. SEAL ALL DUCT JOINTS.
5.	SEAL ALL FLOOR, ROOF AND WALL PENETRATIONS WATER AND AIR TIGHT.
6.	FIRE SEAL ALL PENETRATIONS THROUGH FIRE SEPARATIONS.
7.	MAINTAIN SERVICE CLEARANCES FOR ALL EQUIPMENT AS PER SUPPLIER RECOMMENDATIONS.
8.	CONFORM TO NATIONAL GAS INSTALLATION CODE CAN/CGA-B149.1 AND MANITOBA GAS NOTICES FOR INSTALLATION OF GAS PIPING. OBTAIN APPROVAL FOR INSTALLATION OF EQUIPMENT FROM THE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.
9.	IN THE EVENT THERE ARE DISCREPANCIES ON THE DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL REQUEST CLARIFICATION FROM THE CONSULTANT PRIOR TO CLOSE OF TENDERS AND PRIOR TO PROCEEDING WITH CONSTRUCTION. CLARIFICATION WILL BE PROVIDED WITH THE INTENT OF ELIMINATING EXTRA COST TO THE CONTRACT

MECHANICAL DRAWINGS LIST	
DWG. NO.	DESCRIPTION
2-M0-00	GENERAL NOTES, SYMBOLS LEGENDS & DRAWING LIST
2-M0-01	MECHANICAL EQUIPMENT SCHEDULES SHEET 1
2-M0-02	MECHANICAL EQUIPMENT SCHEDULES SHEET 2
2-M1-00	MECHANICAL DEMOLITION
2-M2-00	UNDERSLAB PLUMBING NEW CONSTRUCTION
2-M2-01	PLUMBING NEW CONSTRUCTION
2-M3-00	HVAC NEW CONSTRUCTION
2-M3-01	HVAC NEW NATURAL GAS
2-M4-00	HYDRONIC NEW CONSTRUCTION
2-M5-00	MECHANICAL MEZZANINE NEW CONSTRUCTION
2-M5-01	MECHANICAL ROOF PLAN
2-M6-00	MECHANICAL SCHEMATIC SHEET 1
2-M6-01	MECHANICAL SCHEMATIC SHEET 2
2-M7-00	MECHANICAL DETAILS SHEET 1
2-M7-01	MECHANICAL DETAILS SHEET 2
DRAWING QUANTITY: 15	

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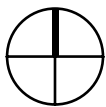
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NOTES

A	2026.06.03	ISSUED FOR TENDER/PERMIT
REV	DATE	DESCRIPTION

PROJECT NORTH



PERMIT / STAMP

OWNER

Owner

PROJECT NAME & ADDRESS

GRUNTHAL ARENA EXPANSION
GRUNTHAL, MB

TITLE

GENERAL NOTES, SYMBOLS
LEGENDS & DRAWING LIST

SCALE 1 : 1

PROJECT NUMBER 25-1962-003

DRAWN BY SLR

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2-M0-00

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NOTES

BOILER SCHEDULE															
TAG	DESCRIPTION	INPUT	OUTPUT	GAS PRESSURE		WATER VOLUME	EWT	LWT	RELIEF VALVE PRESSURE	ELECTRICAL	DIMENSIONS				MAKE / MODEL
				MINIMUM	MAXIMUM						WIDTH	HEIGHT	DEPTH	WEIGHT	
		(MBH)	(MBH)	(IN. H2O)	(IN. H2O)	(USGAL)	(°F)	(°F)	(PSI)	(V/Ph./Hz)	(IN.)	(IN.)	(IN.)	(LBS)	
B-1	DIRECT VENT CONDENSING NATURAL GAS BOILER	120	110	3.5	10.5	0.88	105	125	30	120/1/60	19	26	11	65	RINNAI / IP120S
B-2	DIRECT VENT CONDENSING NATURAL GAS BOILER	120	110	3.5	10.5	0.88	105	125	30	120/1/60	19	26	11	65	RINNAI / IP120S
B-3	DIRECT VENT CONDENSING NATURAL GAS BOILER	120	110	3.5	10.5	0.88	105	125	30	120/1/60	19	26	11	65	RINNAI / IP120S
NOTES: 1. PROVIDE BOILERS WITH TEKMAR 406 CASCADE CONTROLLER															

EXPANSION TANK SCHEDULE							
TAG	DESCRIPTION	TANK VOLUME	ACCEPTANCE VOLUME	DIMENSIONS			MAKE / MODEL
		(USGAL)	(USGAL)	DIAMETER	HEIGHT	WEIGHT	
EXP-1	DOMESTIC HOT WATER EXPANSION TANK	11	5	14	30	105.0	TACO / PAX42
EXP-2	HYDRONIC EXPANSION TANK	8	5	14	22	90.0	TACO / CBX30-125

PUMP SCHEDULE											
TAG	DESCRIPTION	FLUID	PERFORMANCE		MOTOR		DIMENSIONS				MAKE / MODEL
			FLOW	HEAD	POWER	ELECTRICAL	FLANGE TO FLANGE	WIDTH	HEIGHT	WEIGHT	
			(USGPM)	(FT. H2O)	(HP)	(V/Ph./Hz)	(IN.)	(IN.)	(IN.)	(LBS)	
PU-1	MAIN LOOP	WATER	30.0	40.0	1.00	208/3/60	15	10	11	132.5	TACO / KV1506D
PU-2	MAIN LOOP	WATER	30.0	40.0	1.00	208/3/60	15	10	11	132.5	TACO / KV1506D
PU-3	BOILER PUMP	WATER	11.0	4.5	0.04	120/1/60	6	5	6	9.0	TACO / 008-IFC
PU-4	BOILER PUMP	WATER	11.0	4.5	0.04	120/1/60	6	5	6	9.0	TACO / 008-IFC
PU-5	BOILER PUMP	WATER	11.0	4.5	0.04	120/1/60	6	5	6	9.0	TACO / 008-IFC
PU-6	INCLUDED AS INTEGRAL TO MNF-1	WATER	5.22	1.7	0.12	120/1/60	7	4	5	3.3	GRUNDFOS / UPS15-58
PU-7	INCLUDED AS INTEGRAL TO MNF-2	WATER	2.21	0.6	0.12	120/1/60	7	4	5	3.3	GRUNDFOS / UPS15-58
PU-8	INCLUDED AS INTEGRAL TO MNF-3	WATER	2.76	5.1	0.12	120/1/60	7	4	5	3.3	GRUNDFOS / UPS15-58
PU-9	INCLUDED AS INTEGRAL TO MNF-4	WATER	5.29	5.3	0.12	120/1/60	7	4	5	3.3	GRUNDFOS / UPS15-58
PU-10	INCLUDED AS INTEGRAL TO MNF-5	WATER	1.14	1.7	0.12	120/1/60	7	4	5	3.3	GRUNDFOS / UPS15-58

IN-FLOOR HEATING MANIFOLD SCHEDULE												
TAG	FLUID	FLOW	HEAD LOSS	TEMPERATURE			TOTAL LOAD	DIMENSIONS			MAKE / MODEL	COMMENTS
				SUPPLY TEMP	RETURN TEMP	SLAB TEMP.		HEIGHT	WIDTH	DEPTH		
		(GPM)	(FT of Water)	(°F)	(°F)	(°F)	(BTUH)	(IN.)	(IN.)	(IN.)		
MNF-1	WATER	5.22	1.7	128	108	84	52,072	28 1/2	46 1/2	5 7/8	HEATLINK / SSTMR112TG-CN111	12 LOOP MANIFOLD
MNF-2	WATER	2.21	0.6	95	75	84	22,000	28 1/2	42 1/2	5 7/8	HEATLINK / SSTMR108TG-CN108	8 LOOP MANIFOLD
MNF-3	WATER	2.76	5.1	128	108	84	27,500	28 1/2	34 1/2	5 7/8	HEATLINK / SSTMR104TG-BN100	3 LOOP MANIFOLD
MNF-4	WATER	5.29	5.3	128	108	84	52,800	28 1/2	34 1/2	5 7/8	HEATLINK / SSTMR106TG-CN106	6 LOOP MANIFOLD
MNF-5	WATER	1.14	1.7	128	108	84	14,036	28 1/2	34 1/2	5 7/8	HEATLINK / SSTMR104TG-BN100	2 LOOP MANIFOLD
NOTES: 1. RECESSED STAINLESS STEEL HOUSING COMPLETE WITH INTEGRAL ISOLATION VALVES, 3-WAY MIXING VALVE, PUMP AND CONTROLS. REFER TO PUMP SCHEDULE FOR INFO 2. BOTTOM MAIN FEED CONFIGURATION 3. BYPASS & AUTO AIR VENT 4. INDOOR/OUTDOOR RESET CONTROLLER WITH FLOATING ACTION MIXING VALVE MOTOR, STATLINK #40414												

AIR SEPARATOR SCHEDULE					
TAG	FLUID FLOW	ALLOWABLE PRESSURE DROP	CONNECTION SIZE		COMMENTS
			INLET	OUTLET	
	(GPM)	(IN. H2O)	(IN.)	(IN.)	
AS-1	30	3	2	2	TACO / AC02F-125 C/W STRAINER

HYDRAULIC SEPARATOR SCHEDULE								
TAG	FLUID	FLUID FLOW	PIPE SIZE	DIMENSIONS			WEIGHT	MAKE / MODEL
				DIAMETER	HEIGHT	FLANGE TO FLANGE		
		(GPM)	(IN.)	(IN.)	(IN.)	(IN.)	(LBS)	
HS-1	WATER	30	2	7	35	17	100	TACO / 5902A-41

HYDRONIC FILTER SCHEDULE								
TAG	FLUID	PIPE SIZE	FLOW RATE		FILTER SIZE	VESSEL VOLUME	DIMENSIONS	
			MIN.	MAX.			HEIGHT	WEIGHT
		(IN.)	(GPM)	(GPM)	(IN.)	(GAL)	(IN.)	(LBS)
HF-1	WATER	3/4	1	10	10	0.4	14	10
								AXIOM / SPF-10

CHEMICAL POT FEEDER SCHEDULE							
TAG	FLUID	PIPE SIZE	PRESSURE VESSEL VOLUME	MAX. PRESSURE	DIMENSIONS		
					DIAMETER	HEIGHT	WEIGHT
		(IN.)	(GAL)	(PSI)	(IN.)	(IN.)	(LBS)
CPF-1	WATER	3/4	2	265	6	34	26
							AXIOM / CBF-2

GAS DOMESTIC WATER HEATER SCHEDULE											
TAG	DESCRIPTION	HEATING		RECOVERY CAPACITY	STORAGE CAPACITY	GAS PRESSURE		ELECTRICAL	DIMENSIONS		
		CAPACITY	EFFICIENCY			MINIMUM	MAXIMUM		DIAMETER	HEIGHT	WEIGHT
		(BTUH)	(%)	(USGPH)	(USGAL)	(IN. H2O)	(IN. H2O)	(V/Ph./Hz)	(IN.)	(IN.)	(LBS)
DWH-1	DOMESTIC WATER HEATER	199,000	95	234	119	3.5	10.5	120/1/60	28	69	431
DWH-2	DOMESTIC WATER HEATER	199,000	95	234	119	3.5	10.5	120/1/60	28	69	431
									RINNAI / CHS199100HCXIN		

WATER SOFTENER SCHEDULE									
TAG	RESIN VOLUME	CRITICAL FLOW	MAX FLOW TO DRAIN	ELECTRICAL	MINERAL TANK DIMENSIONS		BRINE TANK DIMENSIONS		MAKE/MODEL
	(CUB. FT)	(GPM)	(GPM)		DIAMETER	HEIGHT	DIAMETER	HEIGHT	
					(IN.)	(IN.)	(IN.)	(IN.)	
WS-1	5	25	9	120/1/60	18	65	24	37	CANATURE WATERGROUP / 95MTS 150
NOTES: 1. DUPLEX RESPONSIVE SOFTENER COMPLETE WITH ONE MAIN 95 MTS CONTROLLER 2. TWO 95 SERIES 1.25" CONTROL VALVES WITH ELECTRONIC TIMERS AND METERS 3. TWO 18"x65" MINERAL TANKS WITH INTERNAL DISTRIBUTION 4. TWO BRINE TANKS C/W GRID AND SAFETY FLOAT 5. TWO MEDIA BEDS WITH 5CF OF AQUAFINE SOFTENING RESIN ON SUPPORT BEDS 6. TWO ELECTRIC BALL VALVES FOR SYSTEM OUTLETS									

CONDENSATE PUMP SCHEDULE								
TAG	PERFORMANCE		MOTOR		DIMENSIONS			
	MAX. FLOW	MAX. HEAD	POWER	ELECTRICAL	FLANGE TO FLANGE	WIDTH	HEIGHT	WEIGHT
	(GPH)	(FT. H2O)	(HP)	(V/Ph./Hz)	(IN.)	(IN.)	(IN.)	(LBS)
CP-1	1.6	33.0	0.02	120/1/60	6	1	1	1.5
								ASPEN PUMPS / DACA-CP1-1

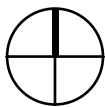
DOMESTIC HOT WATER RECIRCULATION PUMP								
TAG	DESCRIPTION	PERFORMANCE		DIMENSIONS				
		FLOW	HEAD	ELECTRICAL	FLANGE TO FLANGE	WIDTH	HEIGHT	WEIGHT
		(USGPM)	(FT. H2O)					
RCP-1	DOMESTIC HOT WATER RECIRCULATION PUMP	3.0	10.0	120/1/60	5	5	6	3.5
								TACO / 006e3

PLUMBING FIXTURE SCHEDULE				
TAG	DESCRIPTION	CONNECTION SIZES		
		DCW	DHW	SAN
		(IN.)	(IN.)	(IN.)
WC-1	WATER CLOSET	1	-	3
WC-2	UNIVERSAL ACCESS WATER CLOSET	1	-	3
UR-1	UNIVERSAL ACCESS URINAL	3/4	-	2
LAV-1	WALL HUNG LAVATORY	1/2	1/2	1 1/4
LAV-2	UNIVERSAL ACCESS WALL HUNG LAVATORY	1/2	1/2	1 1/4
LAV-3	WALL HUNG LAVATORY	1/2	1/2	1 1/4
SH-1	SHOWER	1/2	1/2	1 1/2
SH-2	UNIVERSAL ACCESS SHOWER	1/2	1/2	1 1/2
SK-1	TRIPLE BOWL SINK	1/2	1/2	1 1/2
SK-2	HAND WASH SINK	1/2	1/2	1 1/2
SK-3	COUNTER MOUNT SINK	1/2	1/2	1 1/2
GI-1	GREASE INTERCEPTOR	-	-	4
JS-1	JANITOR SINK	1/2	1/2	1 1/2
DF-1	DRINKING FOUNTAIN	1/2	-	1 1/4
FD-1	FLOOR DRAIN	-	-	3
FFD-1	FUNNEL FLOOR DRAIN	-	-	3
HB-1	NON-FREEZE HOSE BIBB	3/4	-	-

GREASE INTERCEPTOR									
TAG	FLOW	LIQUID CAPACITY	GREASE CAPACITY	SOLID CAPACITY	DIMENSIONS			WEIGHT	MAKE / MODEL
	(USGPM)	(GAL)	(GAL)	(GAL)	LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)		
GI-1	35.0	20.0	16.3	1.8	35	23	41337	49.0	SCHIER / GB2
NOTES:									
1. 4" INLET/OUTLETS WITH 3" PLAIN END ADAPTORS									
2. PEDESTRAIN RATED COVER									
3. PROVIDE REQUIRED RISERS TO ACCESS COVER TO SUIT									

0	2026.04.10	ISSUED FOR CONSTRUCTION
REV	DATE	DESCRIPTION

PROJECT NORTH



PERMIT / STAMP

OWNER
Owner

PROJECT NAME & ADDRESS
GRUNTHAL ARENA EXPANSION
GRUNTHAL, MB

TITLE
MECHANICAL EQUIPMENT
SCHEDULES SHEET 1
SCALE
PROJECT NUMBER
DRAWN BY

25-1962-003
SLR

FOR TENDER ONLY
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2-M0-01

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NOTES

AIR HANDLING UNIT SCHEDULE															
TAG	LOCATION	ASSOCIATED CONDENSING UNIT	OUTSIDE AIR (CFM)	SUPPLY FAN			COOLING CAPACITY (TONS)	ELECTRICAL			DIMENSIONS				MAKE / MODEL
				TOTAL AIRFLOW (CFM)	E.S.P (IN. H2O)	MOTOR POWER (HP)		POWER (V/Ph./Hz)	MCA (AMPS)	MOCP (AMPS)	LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)	WEIGHT (LBS)	
AHU-1	HALL	CU-1	575	2,000	0.5	0.26	5.0	208/1/60	8.0	15.0	22	21	57	140	RHEEM/FRIEDRICH / RHMVY6021SEACAJ
AHU-2	HALL	CU-2	575	2,000	0.5	0.26	5.0	208/1/60	8.0	15.0	22	21	57	140	RHEEM/FRIEDRICH / RHMVY6021SEACAJ
AHU-3	LK ROOM 1 & 4	CU-3	400	1,600	0.5	0.22	4.0	208/1/60	8.0	15.0	22	21	57	140	RHEEM/FRIEDRICH / RHMVY4821SEACAJ
AHU-4	LK ROOM 2, 4, 5	CU-4	350	1,600	0.5	0.22	4.0	208/1/60	8.0	15.0	22	21	57	140	RHEEM/FRIEDRICH / RHMVY4821SEACAJ
AHU-5	VIEWING STANDS	CU-5	650	1,600	0.5	0.22	4.0	208/1/60	8.0	15.0	22	21	57	140	RHEEM/FRIEDRICH / RHMVY4821SEACAJ

ENERGY RECOVERY VENTILATOR SCHEDULE																			
TAG	DESCRIPTION	SUPPLY FAN			RETURN FAN			WINTER PERFORMANCE				SUMMER PERFORMANCE				FILTRATION	ELECTRICAL		
		AIRFLOW	E.S.P.	POWER	AIRFLOW	E.S.P.	POWER	EFFECTIVENESS	ENERGY RECOVERED	O/A EAT	O/A LAT	EFFECTIVENESS	ENERGY RECOVERED	O/A EAT	O/A LAT		POWER	MCA	MOCP
		(CFM)	(IN. H2O)	(HP)	(CFM)	(IN. H2O)	(HP)	(%)	(BTUH)	(°F)	(DB / WB) (°F)	(%)	(BTUH)	(DB / WB) (°F)	(DB / WB) (°F)		(V/Ph./Hz)	(AMPS)	(AMPS)
ERV-1	INDOOR ENTHALPY CORE	2,250	0.5	1.5	2,250	0.5	1.5	64.6	143,200	-31	52 / 45	52.7	44,400	84 / 73	78 / 68	MERV8	575/3/60	52.5	60.0
NOTES: 1. INTEGRAL ERV CONTROLLER COMPLETE WITH 24/7 PROGRAMMABLE TIMER WITH REMOTE KEYPAD DISPLAY. 2. INTEGRAL O/A AND E/A MOTORIZED DAMPERS CONTROLLED VIA THE ERV CONTROLLER 3. INTEGRAL 37 KW ELECTRIC PREHEAT COIL,C/W SSR CONTROL CONTROLLED VIA THE ERV CONTROLLER 4. INTEGRAL 49 MBH POST HEAT HYDRONIC HEATING COIL CONTROLLED VIA THE ERV CONTROLLER. 5. INTEGRAL SUPPLY AND EXHAUST VFDS FOR THREE PRESET SPEEDS.																			

MAKE-UP AIR UNIT SCHEDULE																				
TAG	DESCRIPTION	AREA SERVED	SUPPLY FAN			HEATING				GAS PRESSURE		FILTRATION	ELECTRICAL			DIMENSIONS				MAKE / MODEL
			AIRFLOW	E.S.P	MOTOR	INPUT	OUTPUT	EFFICIENCY	TEMP. RISE	MINIMUM	MAXIMUM		POWER	MCA	MOCP	LENGTH	WIDTH	HEIGHT	WEIGHT	
			(CFM)	(IN. H2O)	(HP)	(MBH)	(MBH)	(%)	(°F)	(IN. H2O)	(IN. H2O)		(V/Ph./Hz)	(AMPS)	(AMPS)	(IN.)	(IN.)	(IN.)	(LBS)	
MUA-1	DIRECT FIRED NATURAL GAS	KITCHEN	2,138	0.5	1.7	259.7	239	92	110.0	7	14	V-BANK FILTER	208/1/60	13.2	20.0	106	27	30	560	CAPTIVEAIRE / A1-D.250-18Z
NOTES: 1. INDOOR INSTALLATION WITH SIDE DISCHARGE 2. INTEGRAL MOTORIZED BACKDRAFT DAMPER 3. COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK 4. CLOGGED FILTER SWITCH 5. FREEZE STAT 6. CURRENT SENSOR FOR USE WITH PREWIRE PROVING 7. ECM WIRING PACKAGE																				

KITCHEN EXHAUST HOOD SCHEDULE													
TAG	AREA SERVED	OUTLET SIZE	MAX COOKING TEMP	TYPE	DESIGN (CFM/FT)	TOTAL EXHAUST (CFM)	SUPPLY PLENUM (CFM)	ELECTRICAL	DIMENSIONS				MAKE / MODEL
		(IN.)	(DEG C)					POWER	LENGTH	DEPTH	HEIGHT	WEIGHT	
								(V/Ph./Hz)	(IN.)	(IN.)	(IN.)	(LBS)	
RHD-1	KITCHEN	16	600	1	225	2,250	2,138	120/1/60	120	54	24	817	
NOTES: 1. INTEGRAL FRONT PERFORATED MAKEUP AIR SUPPLY PLENUM WITH FIVE 16" RISER CONNECTIONS 2. 430 STAINLESS STEEL HOOD CONSTRUCTION 3. INTEGRAL WET CHEMICAL FIRE SUPPRESSION SYSTEM AND PIPING 4. INTEGRAL RECESSED ROUND LIGHTING 5. CAPTIVE AIR SOLO FILTERS QTY 7 WITH 85% EFFICIENCY AT 7 MICRONS 6. INTEGRAL COMMERCIAL KITCHEN CONTROLLER COMPLETE WITH INTERLOCKS FOR MUA-1 AND EF-1													

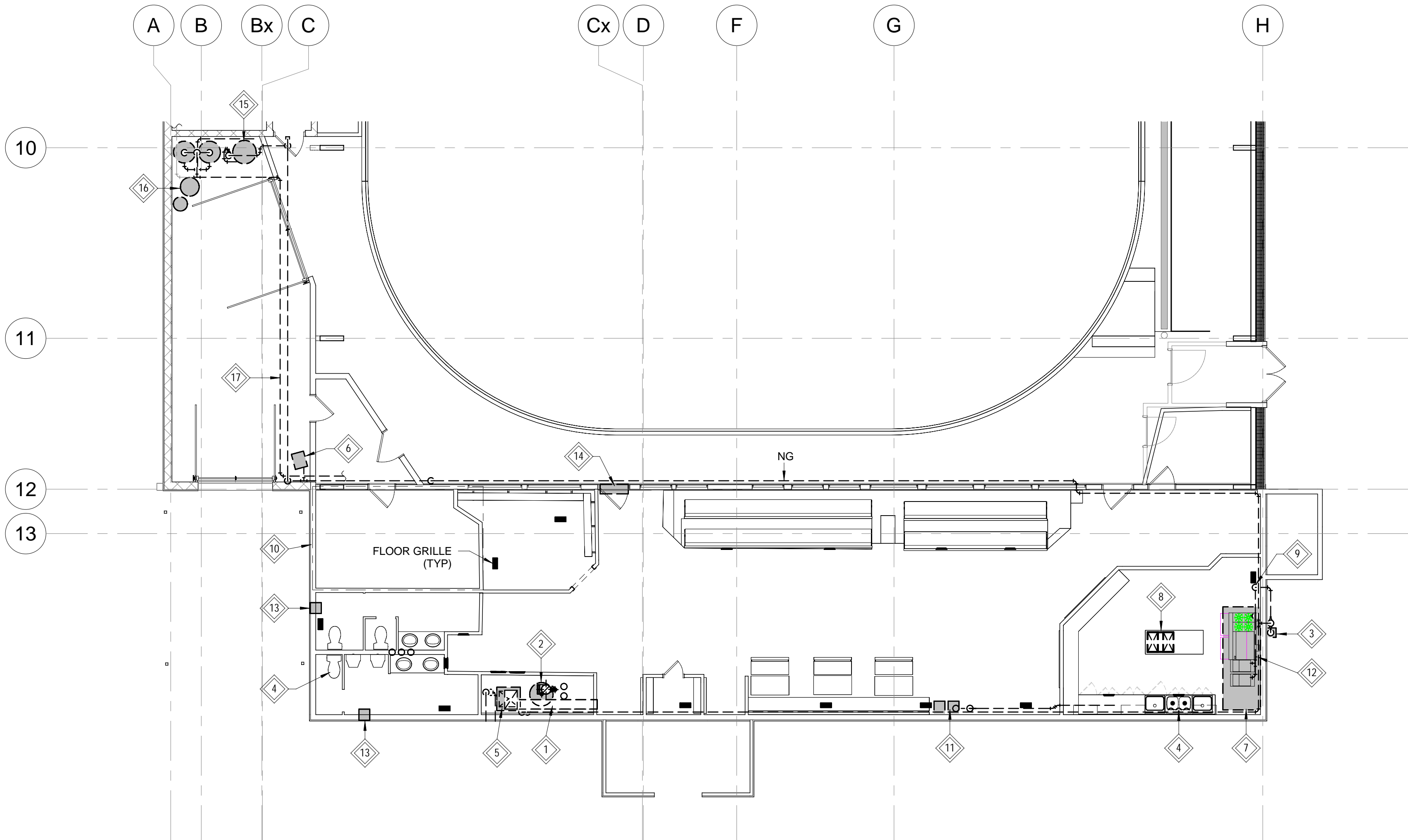
FAN SCHEDULE															
TAG	DESCRIPTION	AREA SERVED	FAN				MOTOR	ELECTRICAL		DIMENSIONS				MAKE / MODEL	NOTES
			AIRFLOW (CFM)	E.S.P. (IN. H2O)	POWER (BHP)	SOUND LEVEL (SONES)	POWER (HP)	POWER (V./Ph./Hz.)	FLA (AMPS)	LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)	WEIGHT (LBS)		
EF-1	KITCHEN EXHAUST FAN	KITCHEN	2,250	1.50	1.18	16.0	3.0	208/1/60	22.1	27	27	24	144	CAPTIVEAIRE / DU180HFA	1,2,3,4
EF-2	COOLING EXHAUST FAN	ELECTRICAL ROOM	450	0.25	0.07	0.3	0.073	120V/1/60	4.1	12	24	12	39	GREENHECK / CSP-A700-VG	5
EF-3	COOLING EXHAUST FAN	MECHANICAL ATTIC	450	0.25	0.07	0.3	0.073	120V/1/60	4.1	12	24	12	39	GREENHECK / CSP-A700-VG	5
NOTES: 1. COMPLETE WITH 20 GAUGE STEEL CONSTRUCTION VENTED ROOF CURB WITH HINGE KIT 2. INTEGRAL GREASE BOX 3. CURRENT SENSOR MOUNTED IN EXHAUST FAN FOR USE WITH PREWIRE PROVING 4. ECM WIRING PACKAGE 5. SPEED CONTROLLER															

HYDRONIC UNIT HEATER SCHEDULE													
TAG	HEATING COIL PERFORMANCE					WORKING FLUID	FAN		ELECTRICAL	DIMENSIONS			
	CAPACITY	FLUID FLOW	EWI	LWT	Δ P		AIRFLOW	MOTOR		LENGTH	WIDTH	HEIGHT	WEIGHT
	(BTUH)	(USGPM)	(°F)	(°F)	(FT. H2O)		(CFM)	(HP)		(IN.)	(IN.)	(IN.)	(LBS)
UH-1	21,900	2.2	120	100	0.1	WATER	1,340	1/10	120/1/60	13	26	19	63
UH-2	21,900	2.2	120	100	0.1	WATER	1,340	1/10	120/1/60	13	26	19	63
ZEHNDER RITTLING / RH-86													

NATURAL GAS UNIT HEATER SCHEDULE													
TAG	HEATING			GAS PRESSURE		FAN		ELECTRICAL	DIMENSIONS				MAKE / MODEL
	INPUT	OUTPUT	EFFICIENCY	MINIMUM	MAXIMUM	AIRFLOW	MOTOR		WIDTH	HEIGHT	DEPTH	WEIGHT	
	(MBH)	(MBH)	(%)	(IN. H2O)	(IN. H2O)	(CFM)	(HP)		(IN.)	(IN.)	(IN.)	(LBS)	
UH-3	60	49.2	82	6	7	990	1/12	120/1/60	26.8	18	34.5	80	MODINE / HDS-60
SEPARATED COMBUSTION C/W VERTICAL CONCENTRIC VENT													

WALL MOUNTED HEAT PUMP SCHEDULE																			
TAG	COOLING				REFRIGERANT TYPE	HEATING		ELECTRICAL			INDOOR UNIT DIMENSIONS				OUTDOOR UNIT DIMENSIONS				MAKE / MODEL
	NOMINAL CAPACITY	EFFICIENCY	SEER 2	EER 2		TOTAL	DESIGN COP	POWER	MCA	MOCP	WIDTH	HEIGHT	DEPTH	WEIGHT	WIDTH	HEIGHT	DEPTH	WEIGHT	
	(TONS)					(BTUH)		(V/Ph./Hz)	(AMPS)	(AMPS)	(IN.)	(IN.)	(IN.)	(LBS)	(IN.)	(IN.)	(IN.)	(LBS)	
HP-1	3	21.0	10.6		R32	34,000	3.1	208/1/60	23	35	42	13	10	40.8	39	29	17	133.0	GREE / GWH36ATEXH-D6DNA1G

CONDENSING UNIT SCHEDULE														
TAG	ASSOCIATED EQUIPMENT	NOMINAL CAPACITY	EFFICIENCY		REFRIGERANT TYPE	ELECTRICAL			DIMENSIONS				MAKE / MODEL	
			TONS	SEER2		EER2	POWER (V/Ph./Hz)	MCA (AMPS)	MOCP (AMPS)	LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)		WEIGHT (LBS)
CU-1	AHU-1	5.0	17.5	10.5	R454B	208/1/60	30	50	36	36	51	307	RHEEM/FRIEDRICH / RA19AY60AJVCA	
CU-2	AHU-2	5.0	17.5	10.5	R454B	208/1/60	30	50	36	36	51	307	RHEEM/FRIEDRICH / RA19AY60AJVCA	
CU-3	AHU-3	4.0	19.0	12.0	R454B	208/1/60	24	40	36	36	51	255	RHEEM/FRIEDRICH / RA19AY48AJVCA	
CU-4	AHU-4	4.0	19.0	12.0	R454B	208/1/60	24	40	36	36	51	255	RHEEM/FRIEDRICH / RA19AY48AJVCA	
CU-5	AHU-5	4.0	19.0	12.0	R454B	208/1/60	24	40	36	36	51	255	RHEEM/FRIEDRICH / RA19AY48AJVCA	
CU-6	HP-1	2.8	21.0	10.6	R32	208/1/60	23	35	39	17	29	133	GREE / GWH36ATEXH-D6DNA1G/I	



1 SOUTH MECHANICAL DEMOLITION
SCALE: 1 : 100

- KEYNOTES**
- DEMOLISH EXISTING INCOMING WATER SERVICE COMPLETE WITH ASSOCIATED WATER METER. COORDINATE DEMOLITION WITH SITE SERVICES.
 - DEMOILSH EXISTING DOMESTIC HOT WATER TANK COMPLETE WITH ALL ASSOCIATED DOMESTIC WATER PIPING AND VENTING. DEMOLISH NATURAL GAS PIPING BACK TO EXISTING METER.
 - DEMOLISH EXISTING NATURAL GAS METER COMPLETE WITH ALL ASSOCIATED NATURAL GAS PIPING. COORDINATE DEMOLITION OF GAS METER WITH MANITOBA HYDRO.
 - DEMOLISH ALL PLUMBING FIXTURES COMPLETE WITH ASSOCIATED DOMESTIC WATER AND SANITARY DRAINAGE PIPING. DEMOLISH ALL SANITARY PIPING AND COORDINATE REMOVAL OF MAIN SANITARY SERVICE WITH SITE SERVICES. CONTRACTOR TO VERIFY EXISTING ROUTING ON SITE.
 - DEMOLISH EXISTING NATURAL GAS FURNACE COMPLETE WITH ALL ASSOCIATED DUCTWORK BELOW SLAB AND FLOOR GRILLES. DEMOLISH ASSOCIATED NATURAL GAS PIPING AND VENTING.
 - DEMOLISH EXISTING NATURAL GAS UNIT HEATER COMPLETE WITH ASSOCIATED NATURAL GAS PIPING AND VENTING.
 - REMOVE EXISTING KITCHEN EXHAUST HOOD AND TURN OVER TO OWNER. DEMOLISH ASSOCIATED EXHAUST DUCTWORK AND EXHAUST FAN ON ROOF.
 - DEMOLISH ASSOCIATED KITCHEN OUTSIDE AIR INTAKE DUCT.
 - DEMOLISH EXISTING WET CHEMICAL FIRE SUPPRESSION SYSTEM COMPLETE WITH ASSOCIATED PIPING AND CONTROLS.
 - EXISTING ICE PLANT EQUIPMENT ROOM WITH ALL ASSOCIATED EQUIPMENT TO BE DEMOLISHED BY OTHERS.
 - DEMOLISH EXISTING DRINKING FOUNTAIN COMPLETE WITH ASSOCIATE WATER AND SANITARY DRAIN PIPING.
 - DEMOLISH ALL EXISTING NATURAL GAS PIPING SERVING KITCHEN COOKING EQUIPMENT. COOKING EQUIPMENT TO BE TURNED OVER TO OWNER.
 - DEMOLISH ALL EXISTING EXHAUST FANS SERVING WASHROOMS. COORDINATE DEMOLITION WITH ELECTRICIAN.
 - TEMPORARILY REMOVE EXISTING ARENA EXHAUST FAN AND RELOCATE AS SHOWN ON THE NEW DRAWINGS TO ACCOMMODATE THE NEW BUILDING ADDITION. COORDINATE RELOCATION WITH ELECTRICIAN.
 - DEMOLISH EXISTING NATURAL GAS HOT WATER TANK COMPLETE WITH ALL ASSOCIATED NATURAL GAS PIPING AND VENTING. DEMOLISH ADJACENT HOT WATER STORAGE TANKS COMPLETE WITH ALL ASSOCIATED DOMESTIC WATER PIPING AND RECIRCULATION PUMP.
 - DEMOLISH EXISTING WATER SOFTENER COMPLETE WITH ASSOCIATED BRINE TANK AND CONTROLS. DEMOLISH ASSOCIATED DOMESTIC WATER PIPING.
 - DEMOLISH EXISTING DOMESTIC COLD WATER SERVICE BACK TO ZAMBONI ROOM AND RETAIN FOR RECONNECTION TO NEW SOUTH ADDITION BUILDINGS WATER SERVICE.

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NOTES

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PROJECT NORTH		

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PROJECT NAME & ADDRESS
**GRUNTHAL ARENA EXPANSION
GRUNTHAL, MB**

TITLE
MECHANICAL DEMOLITION

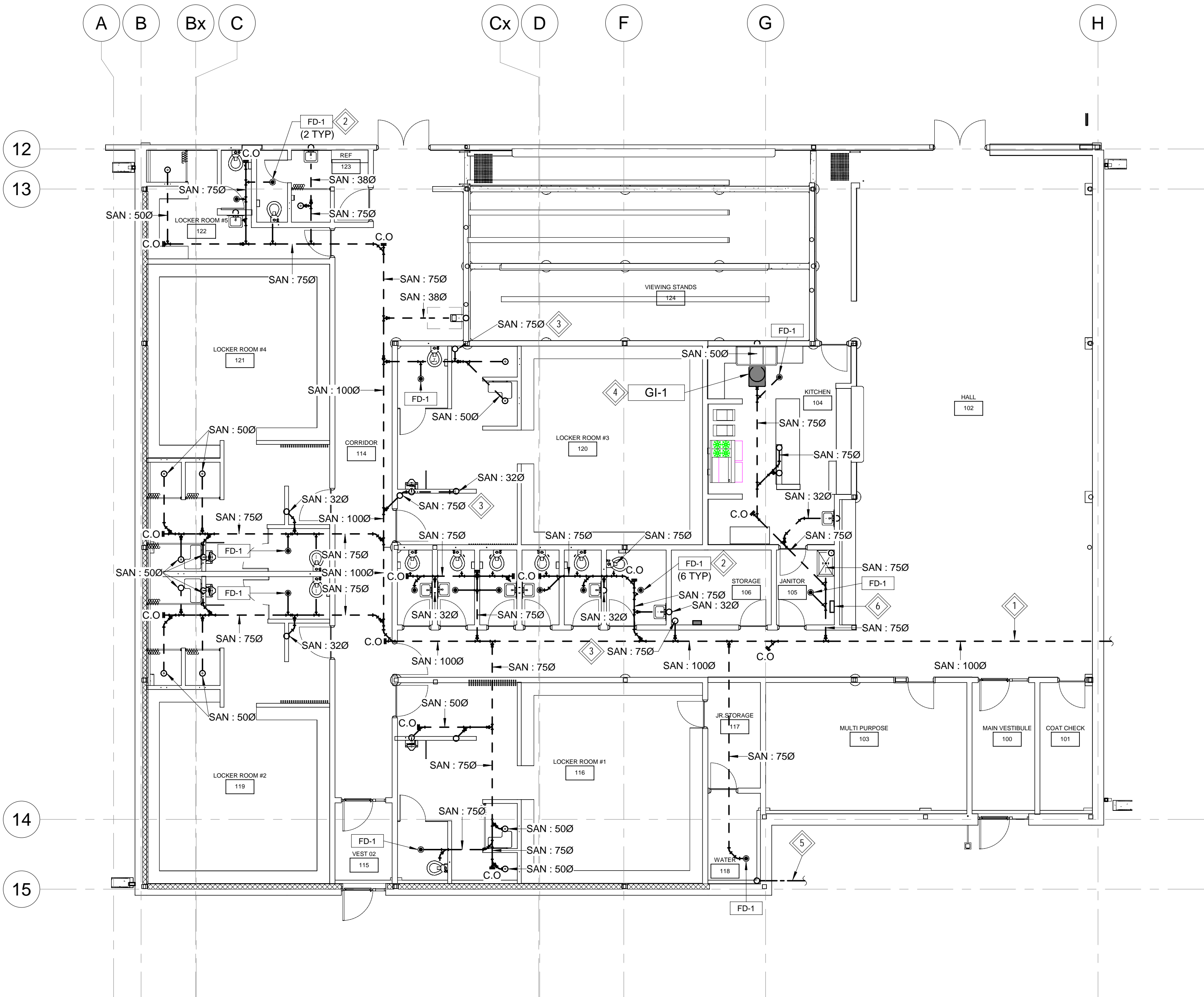
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2-M1-00

KEYNOTES

- 1 PROVIDE NEW SANITARY PIPING AS SHOWN. RUN ALL NEW SANITARY PIPING BELOW SLAB. COORDINATE CONNECTION TO WASTE WATER SEWER WITH SITE SERVICES.
- 2 PROVIDE NEW FLOOR DRAINS (FD-1) THROUGHOUT THE SOUTH ADDITION AS SHOWN. ALL FLOOR DRAINS TO BE PROVIDED WITH TRAP SEAL PRIMERS.
- 3 PROVIDE SANITARY RISERS TO SERVE DRAINAGE FROM FLOOR DRAINS IN MEZZANINE ABOVE. REFER TO MEZZANINE PLAN FOR FLOOR DRAIN LOCATIONS. ROUTE SANITARY DRAINAGE PIPING TIGHT TO CORNER OF WALL.
- 4 PROVIDE NEW GREASE SEPARATOR RECESSED BELOW FLOOR. INSTALL IN ACCORDANCE WITH MANUFACTURE INSTALLATION REQUIREMENTS AND PROVIDE FLOOR ACCESS COVER FLUSH WITH FINISHED FLOOR. REFER TO DETAILS.
- 5 NEW 150MM COMBINED DOMESTIC WATER AND FIRE PROTECTION SERVICE. COORDINATE CONNECTION WITH SITE SERVICES. PROVIDE NEW WATER SERVICE COMPLETE WITH FROST BOX, THRUST BLOCK AND MAIN SUPERVISED PREMISE ISOLATION VALVE. REFER TO DETAILS.
- 6 FLOOR DRAIN ELECTRONIC TRAP PRIMING MANIFOLD. ROUTE ALL NEW FLOOR DRAIN SERVING THE MAIN FLOOR TO TRAP PRIMING MANIFOLD.



1 MAINFLOOR UNDERSLAB PLUMBING

2-M2-00
SCALE: 1 : 100

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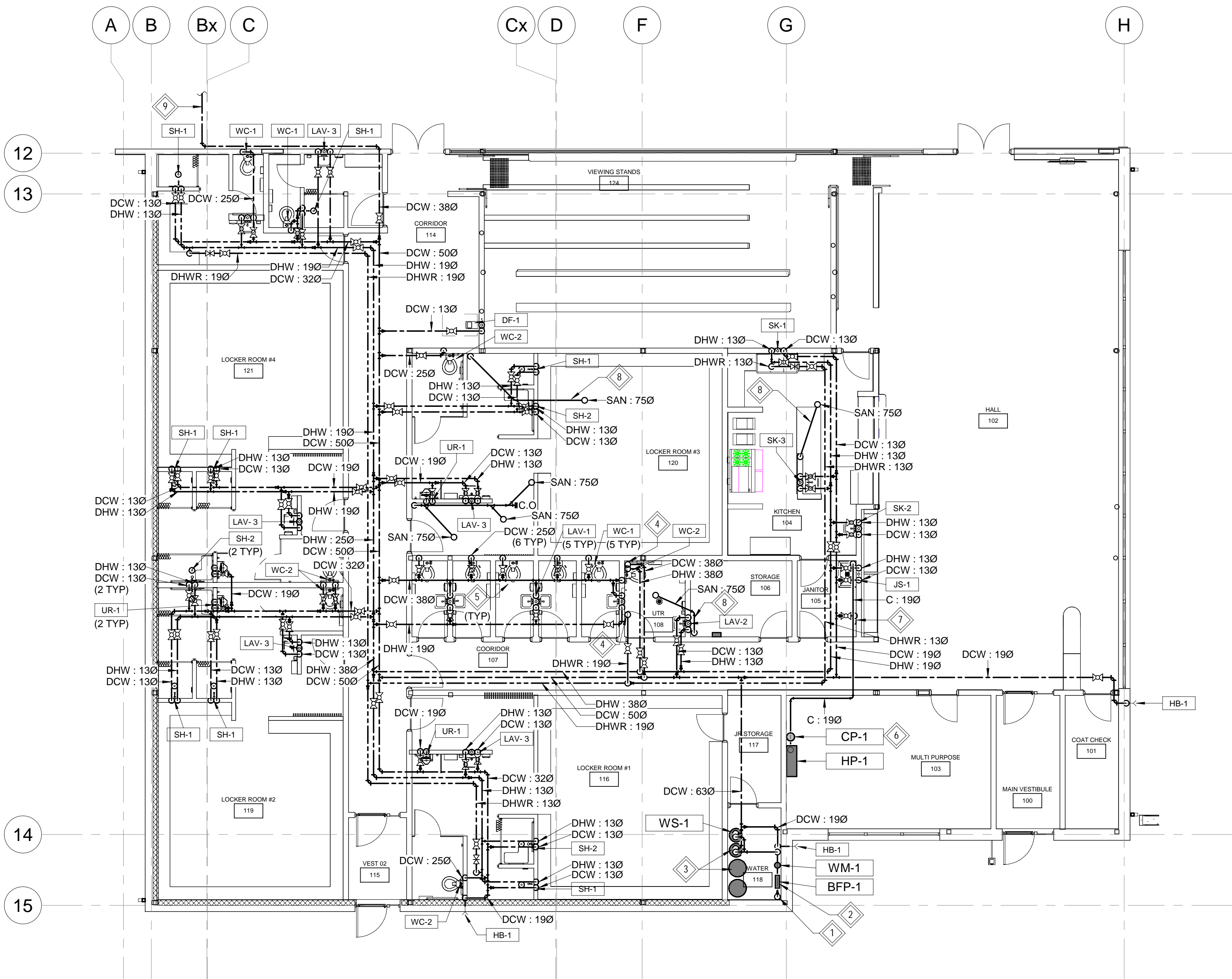
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1 MAIN FLOOR PLUMBING
2-M2-01
SCALE: 1 : 100

KEYNOTES

- 1 NEW 150MM COMBINED DOMESTIC WATER AND FIRE PROTECTION SERVICE. COORDINATE CONNECTION WITH SITE SERVICES. PROVIDE NEW WATER SERVICE COMPLETE WITH FROST BOX, THRUST BLOCK AND MAIN SUPERVISED PREMISE ISOLATION VALVE. REFER TO DETAILS AND SCHEMATICS.
- 2 PROVIDE DUAL CHECK BACKFLOW PREVENTER AND WATER METER COMPLETE WITH MANUAL BYPASS. COORDINATE WATER METER REQUIREMENTS WITH LOCAL AHJ. REFER TO SCHEMATICS AND DETAILS FOR ADDITIONAL INFORMATION.
- 3 PROVIDE WATER SOFTENER COMPLETE WITH BRINE TANKS. COORDINATE WITH ELECTRICAL FOR POWER AND ROUTE DRAIN TO FLOOR DRAIN COMPLETE WITH AIR GAP.
- 4 DCW, DHW AND DHWR ROUTED UP INTO MEZZANINE SPACE ABOVE. REFER TO 2-M5-00 MEZZANINE PLAN FOR CONTINUATION.
- 5 PROVIDE ALL PLUMBING FIXTURES THROUGHOUT BUILDING IN ACCORDANCE WITH THE SPECIFICATIONS COMPLETE WITH ASSOCIATED DOMESTIC WATER AND SHUT OFF VALVES FOR EACH FIXTURE. MECHANICAL CONTRACTOR TO COORDINATE ROUTING OF NEW PLUMBING SERVICES WITHIN CONCRETE BLOCK WALLS WITH MASONRY TRADE. REFER TO ARCHITECTURAL FOR ALL WALLS THAT ARE SCHEDULED AS CONCRETE BLOCK WALLS.
- 6 PROVIDE CONDENSATE PUMP COMPLETE WITH ASSOCIATED PIPING. ROUTING CONDENSATE PIPING TO INDIRECTLY DRAIN INTO JANITOR SINK.
- 7 PROVIDE FLOOR DRAIN ELECTRONIC TRAP PRIMING MANIFOLD MOUNTED TO WALL. COORDINATE POWER REQUIREMENTS WITH ELECTRICIAN.
- 8 PROVIDE SANITARY PIPING IN CEILING SPACE TO SERVE FLOOR DRAINS IN MEZZANINE ABOVE. ROUTE RISERS IN CORNER OF WALLS OR WITHIN WALLS WHERE SHOWN. FIRESTOP ALL PIPING PENETRATIONS THROUGH MEZZANINE FLOOR.
- 9 RECONNECT TO EXISTING DOMESTIC COLD WATER SERVICE RETAINED IN THE OLD ZAMBONI ROOM TO REFEED WATER SERVICE TO EXISTING LOCKER ROOM PLUMBING FIXTURES. CONTRACTOR TO CONFIRM EXACT ROUTING AND LOCATION ON SITE FROM DEMOLITION.

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GRUNTHAL ARENA EXPANSION
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PROVIDE SUPPLY DUCTWORK FROM THE AIR HANDLING UNITS LOCATED IN MEZZANINE COMPLETE WITH COMBINATION FIRE/SMOKE DAMPERS. ROUTE DUCTWORK AS HIGH AS POSSIBLE. REFER TO 2-M5-00 MEZZANINE PLAN FOR CONTINUATION. PAINT ALL EXPOSED DUCTWORK AS PER ARCHITECTURAL.

PROVIDE NEW RETURN GRILLE AT HIGH LEVEL COMPLETE WITH COMBINATION FIRE SMOKE DAMPER. REFER TO 2-M5-00 MEZZANINE PLAN FOR CONTINUATION.

PROVIDE NEW EXHAUST DUCTWORK FOR LOCKER ROOMS AND WASHROOMS AND ROUTE TO ERV LOCATED IN MEZZANINE. ROUTE ALL EXHAUST DUCTWORK AS HIGH AS POSSIBLE TO AVOID DAMAGE. ALL EXHAUST DUCTWORK LOCATED IN LOCKER ROOMS TO HAVE HEAVY GAUGE CONSTRUCTION FOR DURABILITY. REFER TO SPECIFICATIONS. PAINT ALL EXPOSED DUCTWORK AS PER ARCHITECTURAL.

MOUNT CONDENSING UNITS FOR AIR HANDLING UNITS TO WALL COMPLETE WITH WALL BRACKET. ROUTE ASSOCIATED INSULATED REFRIGERANT PIPING AT HIGH LEVEL INTO IN LOCKER ROOMS TO AVOID RISK OF DAMAGE. CONTRACTOR SHALL DESIGN AND SIZE ALL REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURER INSTALLATION REQUIREMENTS. PROVIDE ALUMINUM JACKETING FOR ALL REFRIGERANT PIPING LOCATED OUTDOORS AND PVC JACKETING FOR ALL EXPOSED REFRIGERANT PIPING INDOORS.

PROVIDE WALL MOUNTED HEAT PUMP COMPLETE WITH CONDENSATE PUMP.

PROVIDE NEW TYPE 1 COMMERCIAL KITCHEN GREASE HOOD COMPLETE WITH INTEGRAL WET CHEMICAL FIRE SUPPRESSION SYSTEM, CONTROLS AND MAKEUP AIR SUPPLY PLENUM.

PROVIDE NEW INSULATED MAKEUP AIR DUCT FROM MEZZANINE ABOVE COMPLETE WITH COMBINATION FIRE SMOKE DAMPER. MAINTAIN STRAIGHT DUCT LENGTHS TO PERMIT INSTALLATION OF ASSOCIATED DUCT MOUNTED SMOKE DETECTOR. CONNECT MAKEUP AIR DUCT TO COMMERCIAL KITCHEN EXHAUST HOOD PLENUM.

PROVIDE FACTORY-BUILT DOUBLE WALL GREASE EXHAUST DUCTWORK TO PROVIDE 0 CLEARANCE TO COMBUSTIBLE RATING. REFER TO SPECIFICATIONS. INSTALL EXHAUST DUCTWORK IN ACCORDANCE WITH NFPA 96.


PROVIDE ACOUSTICALLY INSULATED RETURN TRANSFER ELBOWS AT HIGH LEVEL FOR EACH LOCKER ROOM COMPLETE WITH GRILLE ON THE FACE OF THE CORRIDOR WALL (4 TYP).

PROVIDE WALL MOUNTED THERMOSTAT TO CONTROL BOTH IN-FLOOR HEATING MANIFOLDS AND FURNACES/HEAT PUMP. PROVIDE VANDAL PROOF PROTECTIVE COVER FOR ALL THERMOSTATS (TYP).

PROVIDE NEW CEILING HUNG INLINE EXHAUST FAN COMPLETE WITH VIBRATION ISOLATORS AND FLEXIBLE DUCTWORK CONNECTIONS. ROUTE DUCTWORK THROUGH EXTERIOR WALL COMPLETE WITH BACKDRAFT DAMPER AND WALL CAP. EXHAUST FAN TO BE CONTROLLED FROM ROOM COOLING THERMOSTAT.

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GRUNTHAL, MB

HVAC NEW CONSTRUCTION

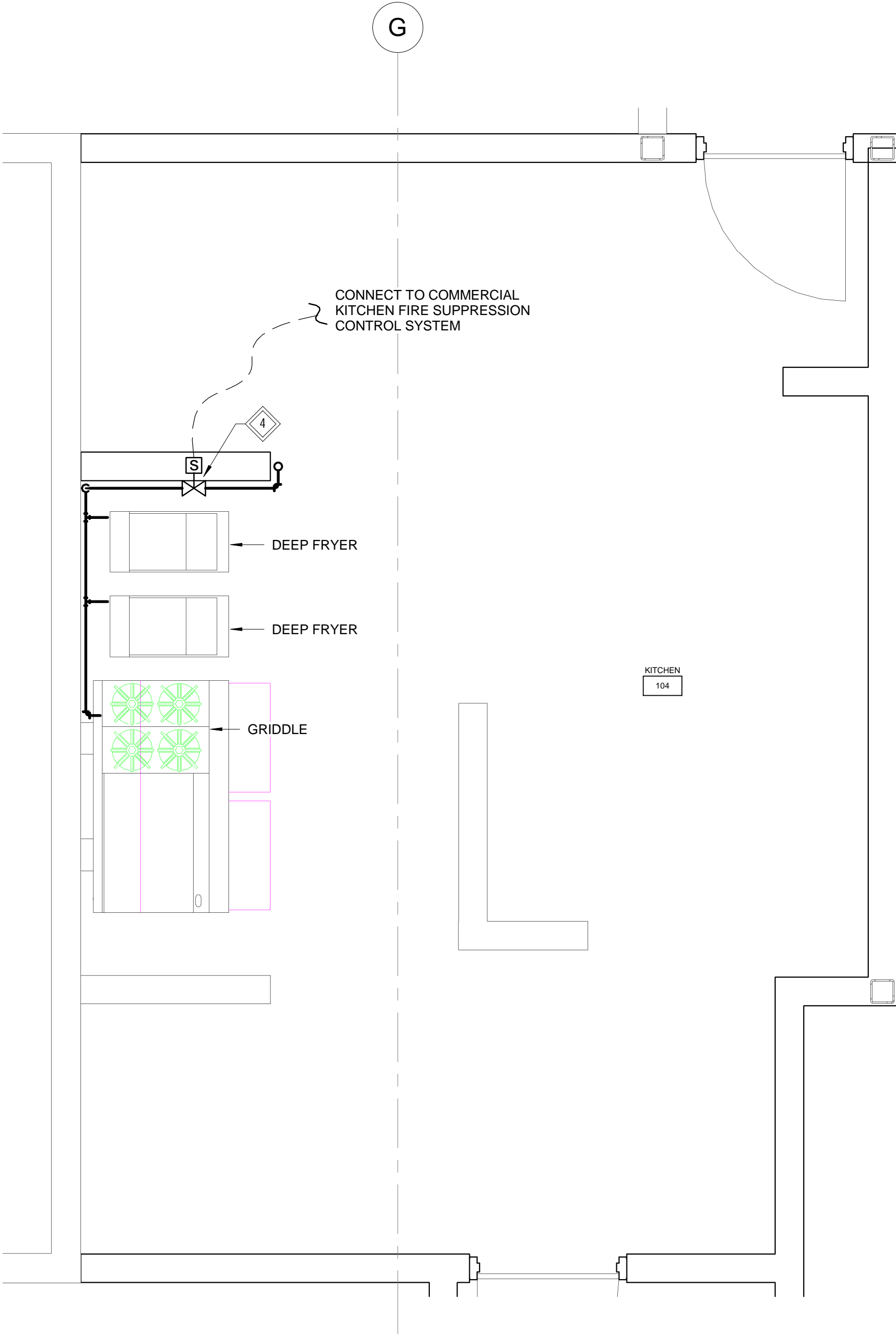
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2-M3-00

KEYNOTES

- 1
- CONNECT INTO EXISTING 50MM 5LB NATURAL GAS SERVICE. REFER TO MECHANICAL DRAWING 2M6-01 NATURAL GAS SCHEMATIC FOR SIZING. ALL NATURAL GAS PIPING SHALL BE SIZED AND ROUTED IN ACCORDANCE WITH CSA B149.1. ROUTE ALL NATURAL GAS PIPING AT HIGH LEVEL. PAINT ALL NATURAL GAS PIPING YELLOW.
- 2
- ROUTE NATURAL GAS PIPING INTO MECHANICAL EQUIPMENT LOCATED IN MEZZANINE SPACE.
- 3
- NATURAL GAS PIPING DOWN TO KITCHEN EQUIPMENT BELOW. REFER TO DETAIL 2 ON THIS DRAWING FOR CONTINUATION.
- 4
- PROVIDE EMERGENCY NATURAL GAS SHUT OFF SOLENOID VALVE FOR COMMERCIAL COOKING EQUIPMENT AND CONNECT TO COMMERCIAL KITCHEN FIRE SUPPRESSION CONTROL SYSTEM.
- 5
- PROVIDE CEILING HUNG NATURAL GAS UNIT HEATER TO SERVE OLD ZAMBONI ROOM AND CONNECT TO NEW GAS SERVICE. PROVIDE ASSOCIATED VENTING THROUGH ROOF COMPLETE WITH CONCENTRIC VENTING KIT.

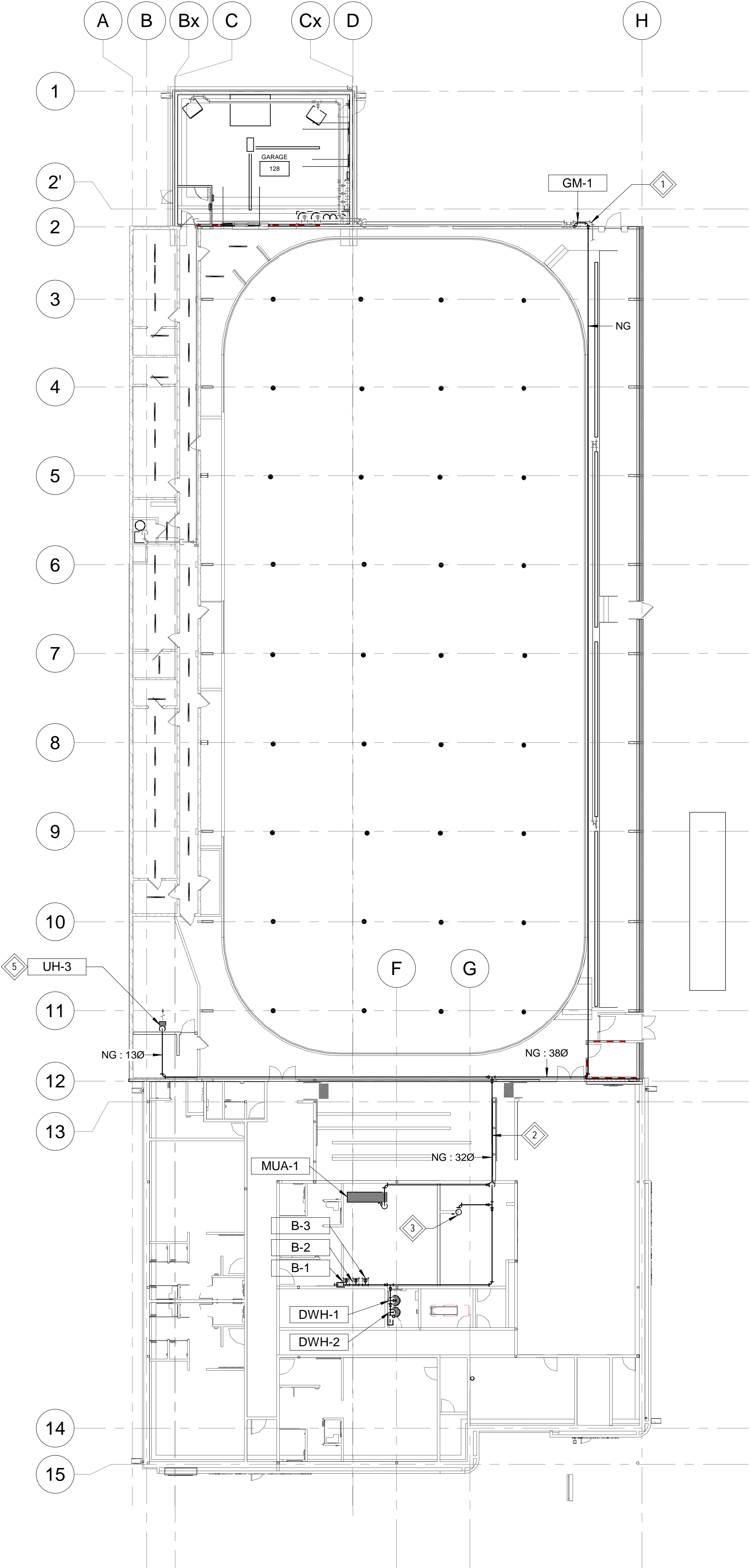


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2-M3-01

KITCHEN FLOOR PLAN - NATURAL GAS

SCALE: 1 : 25



1

2-M3-01

OVERALL BUILDING - NATURAL GAS

SCALE: 1 : 200

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GRUNTHAL ARENA EXPANSION
GRUNTHAL, MB

TITLE
HVAC NEW NATURAL GAS

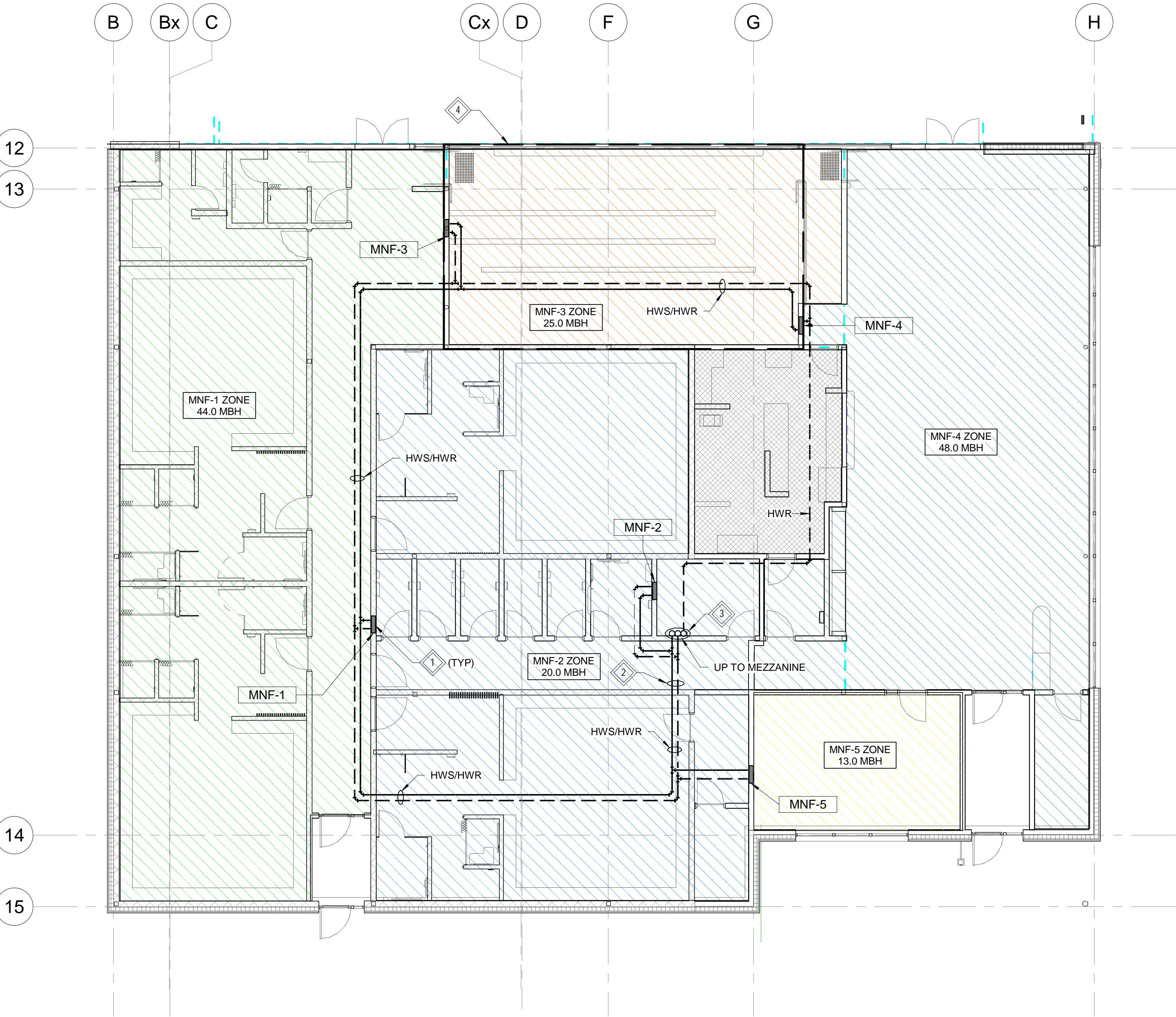
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- KEYNOTES**
- 1 RECESSED IN-FLOOR HEATING MANIFOLD IN WALL COMPLETE WITH STAINLESS STEEL LOCKABLE ENCLOSURE. COORDINATE REQUIRED OPENING SIZES WITHIN MASONRY WALLS.
 - 2 HYDRONIC PIPING ROUTED BELOW SLAB TO EACH MANIFOLD LOCATION. REFER TO MECHANICAL DRAWING 2-M6-00 HYDRONIC SCHEMATIC FOR SIZES.
 - 3 HYDRONIC RISERS UP INTO MEZZANINE ABOVE. ROUTE HYDRONIC PIPING TIGHT TO WALL.
 - 4 INFLOOR HEATING PIPING TO BE ROUTED WITHIN RAISED TIERED SEATING AREA. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL FOR ROUTING INFLOOR HEATING TUBING WITHIN VOID SPACE BELOW. TO EACH SEATING TIER PROVIDE WIRE MESH ON TOP OF STEEL DECKING FOR MOUNTING INFLOOR HEATING TUBING AS PER MANUFACTURER RECOMMENDED INSTALLATION GUIDELINES.



1 BELOW SLAB PIPING - HYDRONICS
2-M4-00
SCALE: 1 : 100

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GRUNTHAL, MB

TITLE
HYDRONIC NEW
CONSTRUCTION
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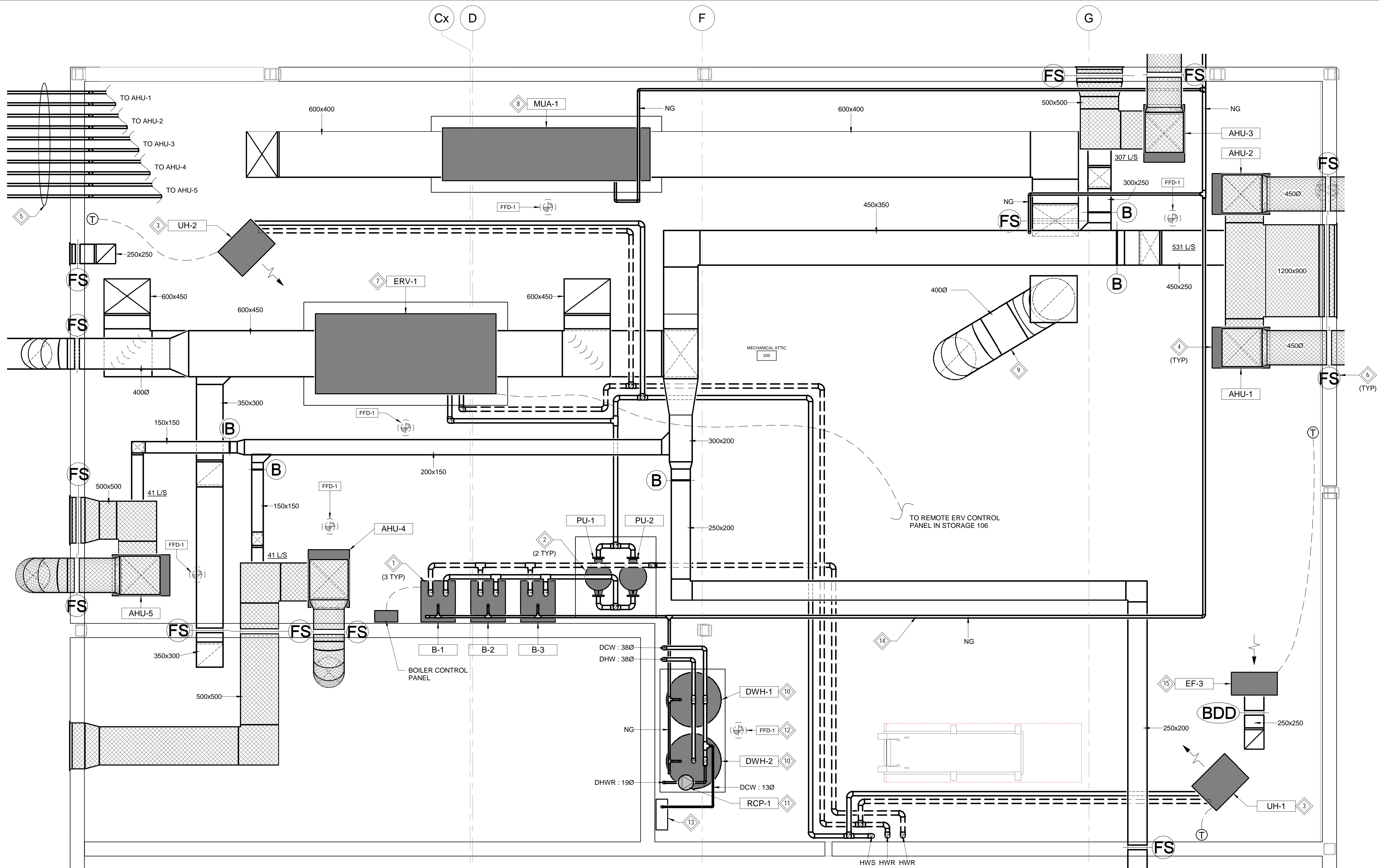
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GRUNTHAL, MB

TITLE
MECHANICAL MEZZANINE NEW
CONSTRUCTION
SCALE
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2-M5-00



1 MECHANICAL MEZZANINE FLOOR PLAN
2-M5-00
SCALE: 1 : 25

- KEYNOTES**

 - PROVIDE WALL MOUNTED NATURAL GAS BOILERS COMPLETE WITH ASSOCIATED HYDRONIC PIPING. PROVIDE DIRECT VENT AND ROUTE THROUGH ROOF IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. MAINTAIN CLEARANCES TO BUILDING INTAKES AND OPENINGS IN ACCORDANCE WITH CSA B149.1.
 - PROVIDE INLINE HYDRONIC CIRCULATION PUMPS ON NEW HOUSEKEEPING PAD COMPLETE WITH ALL ASSOCIATED ANCILLARIES. REFER TO MECHANICAL DRAWING 2-M6-00 HYDRONIC SCHEMATICS FOR SIZES AND ADDITIONAL DETAILS.
 - PROVIDE CEILING HUNG HYDRONIC UNIT HEATER COMPLETE WITH ASSOCIATED HYDRONIC PIPING AND THERMOSTAT.
 - PROVIDE FLOOR MOUNTED AIR HANDLING UNIT COMPLETE WITH ASSOCIATED SUPPLY AND RETURN DUCTWORK AS SHOWN. ACOUSTICALLY INSULATE ALL ASSOCIATED RETURN AND SUPPLY DUCTWORK AND PROVIDE FLEXIBLE DUCTWORK CONNECTIONS (REFER TO SPECIFICATIONS).
 - INSULATED REFRIGERANT PIPING TO BE ROUTED TO EACH AIR HANDLING UNIT. ROUTING NOT SHOWN FOR CLARITY.
- KEYNOTES**

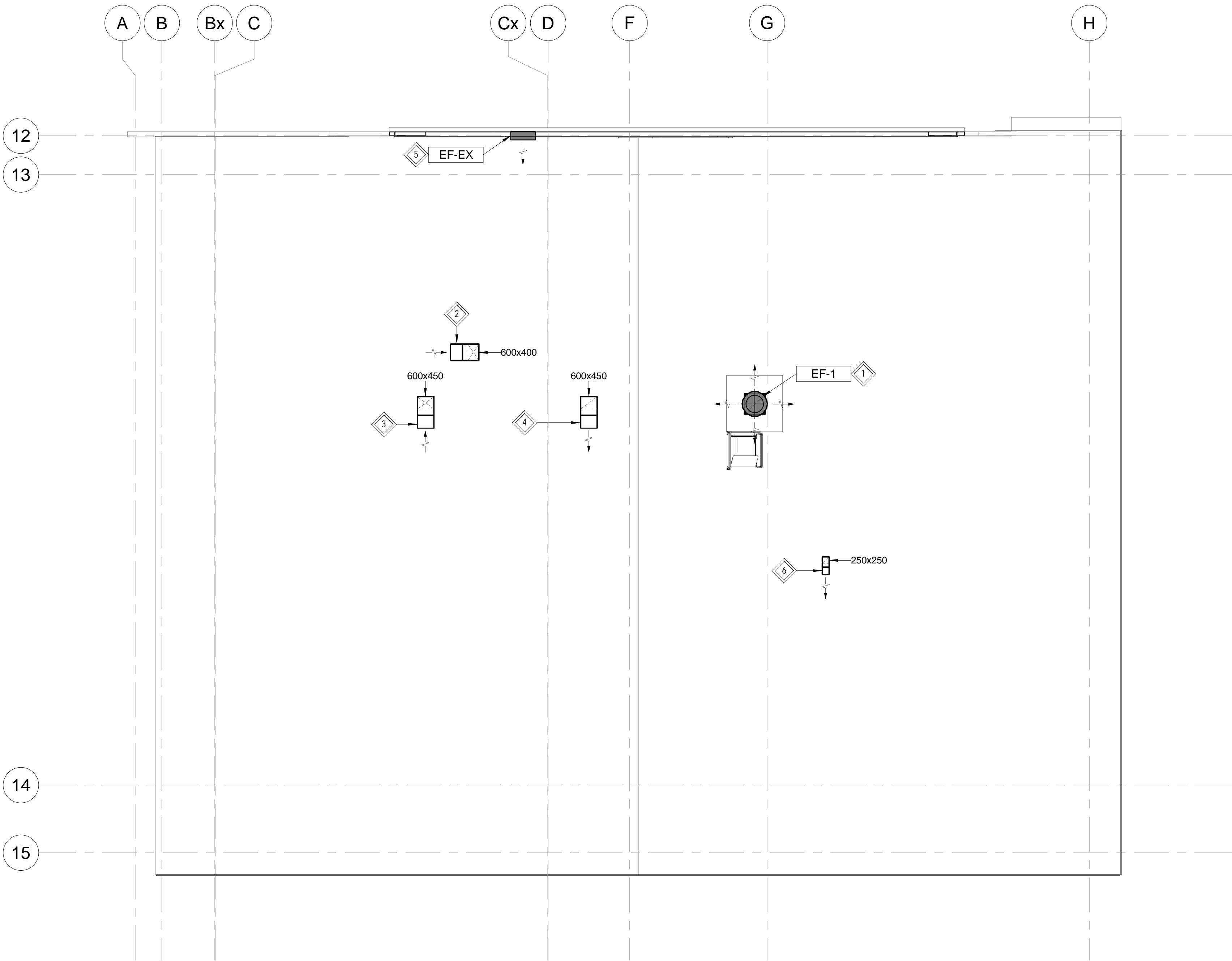
 - INSTALL COMBINATION FIRE SMOKE DAMPERS FOR ALL DUCTWORK PENETRATIONS THROUGH MEZZANINE WALL/FLOOR. REFER TO DETAIL 1 ON MECHANICAL DRAWING 2-M7-00 FOR ADDITIONAL DETAILS. COORDINATE WITH ELECTRICIAN FOR REQUIRED DUCT MOUNTED SMOKE DETECTOR INSTALLATION AND ACTUATOR POWER REQUIREMENTS.
 - PROVIDE FLOOR MOUNTED ERV ON HOUSEKEEPING PAD COMPLETE WITH ASSOCIATED DUCTWORK AND FLEXIBLE DUCTWORK CONNECTIONS. INSULATE ALL OUTSIDE AIR, EXHAUST AIR AND SUPPLY AIR DUCTWORK (REFER TO SPECIFICATIONS). BALANCE SUPPLY AIR TO AIRFLOW RATE SHOWN FOR EACH AIR HANDLING UNIT. CONNECT TO HYDRONIC SYSTEM FOR POST HEATING COIL.
 - PROVIDE NEW FLOOR MOUNTED INDOOR DIRECT FIRED MAKEUP AIR UNIT ON HOUSEKEEPING PAD TO SERVE KITCHEN HOOD COMPLETE WITH FLEXIBLE DUCTWORK CONNECTIONS. MAKEUP AIR UNIT SHALL BE CONTROLLED VIA THE COMMERCIAL KITCHEN HOOD CONTROL SYSTEM AND REVERSE DOUBLE INTERLOCKED WITH KITCHEN EXHAUST FAN EF-1 ON ROOF.
- KEYNOTES**

 - PROVIDE CAPTIVE AIR DW-3Z UL2221 LISTED FACTORY-BUILT DOUBLE WALL GREASE DUCT WITH 0 CLEARANCE TO COMBUSTIBLES AND 2HR FIRE RESISTIVE RATING. PROVIDE DUCT ACCESS DOOR FOR CLEANING AT EVERY CHANGE IN AIRFLOW DIRECTION AND PITCH ALL HORIZONTAL DUCTWORK MINIMUM 2% TOWARD THE HOOD TO DRAIN GREASE IN ACCORDANCE WITH NFPA 96.
 - PROVIDE NATURAL GAS DOMESTIC WATER HEATERS. PROVIDE DIRECT VENT AND ROUTE THROUGH ROOF IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. MAINTAIN CLEARANCES TO TO BUILDING INTAKES AND OPENINGS IN ACCORDANCES WITH CSA B149.1. INSTALL WATER HEATERS ON NEW HOUSEKEEPING PAD.
 - PROVIDE DOMESTIC HOT WATER RECIRCULATION PUMP COMPLETE WITH 24/7 SCHEDULE TIMER AND AQUASTAT CONTROLS.
 - PROVIDE FUNNEL FLOOR DRAINS FOR ALL MECHANICAL EQUIPMENT IN MEZZANINE. PROVIDE TRAP PRIMER CONNECTIONS FOR ALL FLOOR DRAINS.
- KEYNOTES**

 - FLOOR DRAIN ELECTRONIC TRAP PRIMING MANIFOLD. ROUTE ALL NEW FLOOR DRAINS SERVING THE MEZZANINE FLOOR TO TRAP PRIMING MANIFOLD.
 - PROVIDE NATURAL GAS PIPING TO ALL GAS FIRED EQUIPMENT. REFER TO MECHANICAL DRAWING 2-M6-01 NATURAL GAS SCHEMATIC FOR SIZES AND DETAILS.
 - PROVIDE NEW CEILING HUNG INLINE EXHAUST FAN COMPLETE WITH VIBRATION ISOLATORS AND FLEXIBLE DUCTWORK CONNECTIONS. ROUTE DUCTWORK THROUGH ROOF COMPLETE WITH BACKDRAFT DAMPER AND GOOSNECK HOOD. EXHAUST FAN TO BE CONTROLLED FROM ROOM COOLING THERMOSTAT.

KEYNOTES

- 1 PROVIDE NEW KITCHEN EXHAUST FAN ON ROOF COMPLETE WITH VENTED ROOF CURB. KITCHEN EXHAUST FAN SHALL BE INSTALLED WITH ACCESS PLATFORM COMPLETE WITH GUARDRAIL AROUND ALL SIDES OF THE FAN FOR ACCESS (REFER TO ARCHITECTURAL FOR DETAILS). MAINTAIN CLEARANCES TO COMBUSTIBLE CONSTRUCTION IN ACCORDANCE WITH NFPA 96.
- 2 PROVIDE GOOSENECK HOOD FOR MUA-1 OUTSIDE AIR INTAKE. MAINTAIN MINIMUM 30 FEET CLEARANCE FROM KITCHEN EXHAUST FAN (EF-1).
- 3 PROVIDE GOOSENECK HOOD FOR ERV-1 OUTSIDE AIR INTAKE. MAINTAIN MINIMUM 30 FEET CLEARANCE FROM KITCHEN EXHAUST FAN (EF-1).
- 4 PROVIDE GOOSENECK HOOD FOR ERV-1 EXHAUST.
- 5 REINSTALL EXISTING ARENA EXHAUST FAN AT HIGHER ELEVATION TO ACCOMMODATE NEW SOUTHERN BUILDING ADDITION. COORDINATE WITH ELECTRICIAN.
- 6 PROVIDE GOOSENECK HOOD FOR EF-3 EXHAUST.



1 MECHANICAL ROOF PLAN
2-M5-01
SCALE: 1 : 100

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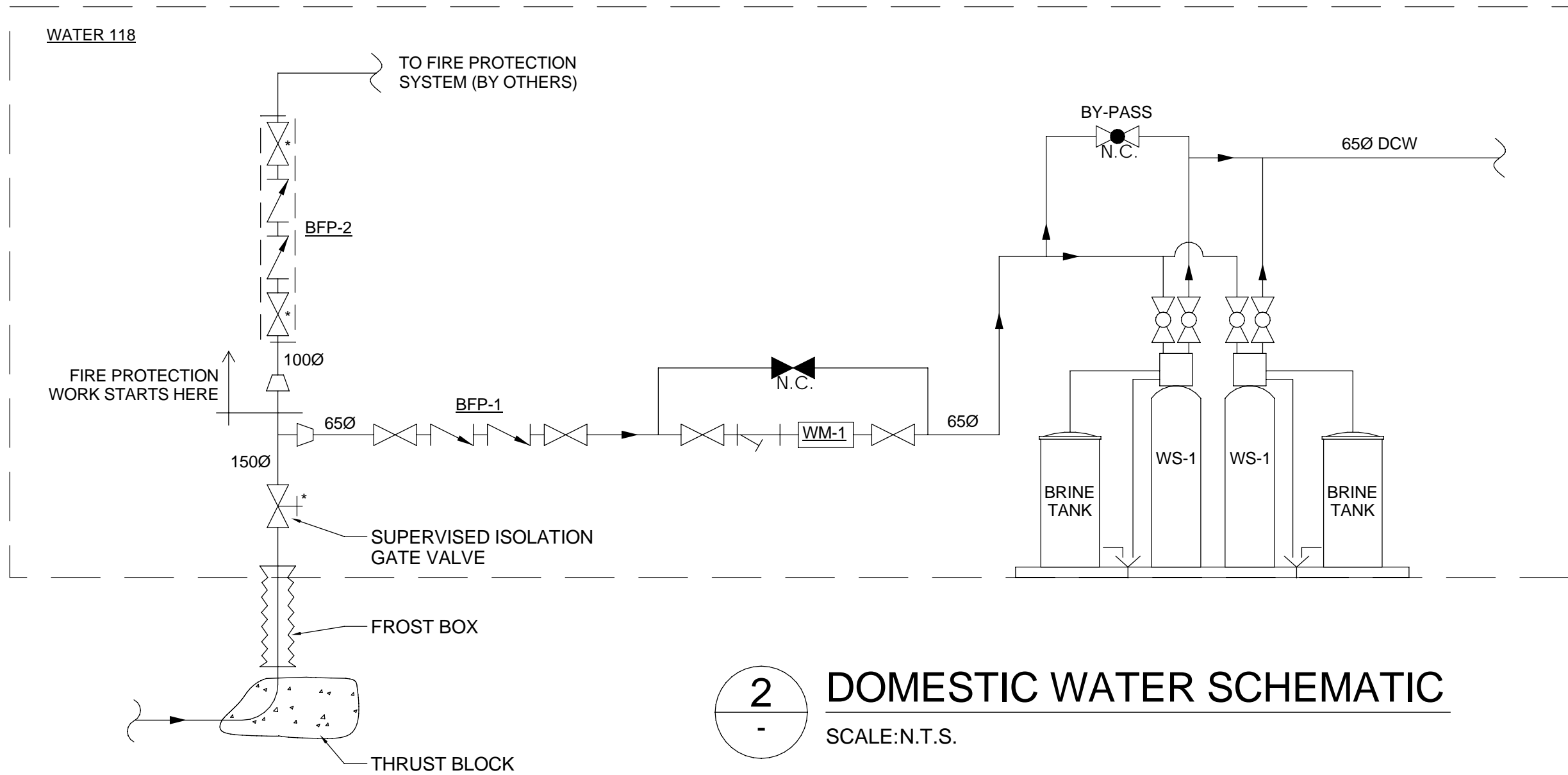
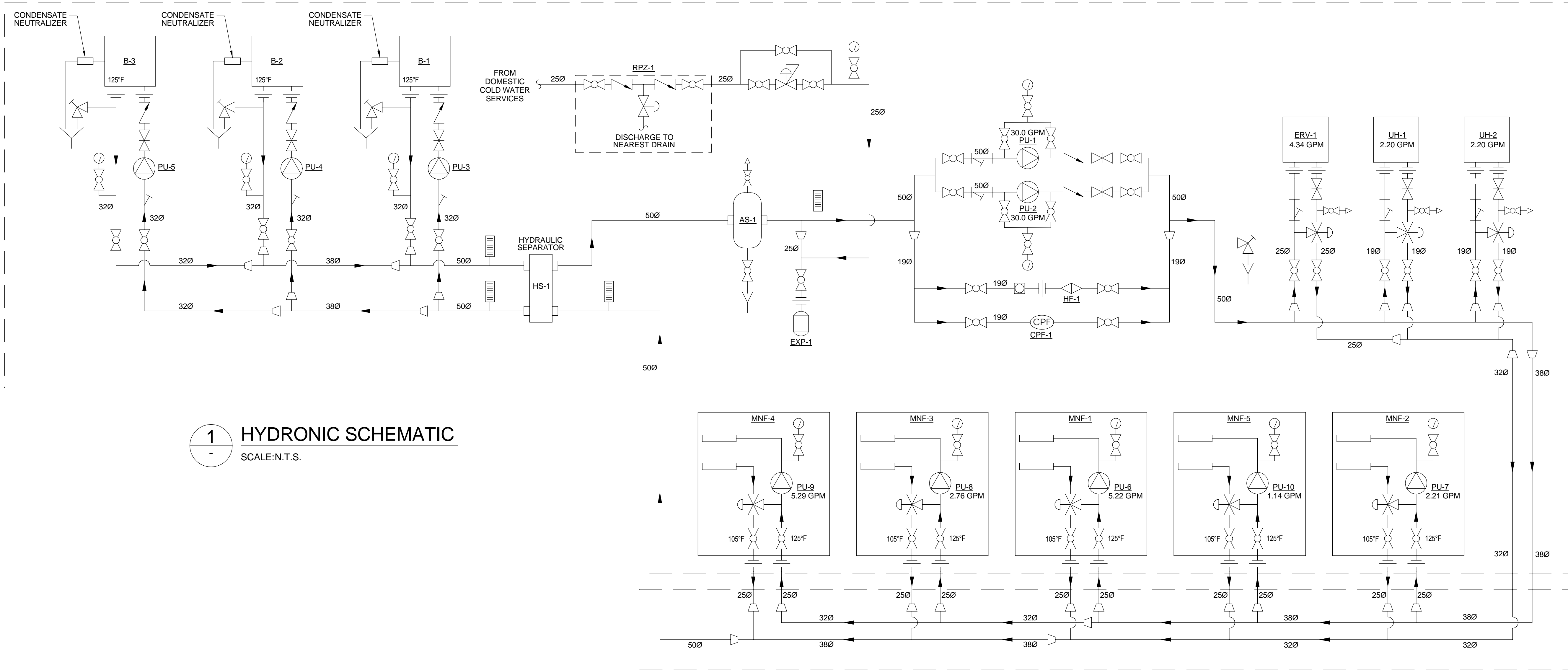
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MECHANICAL SCHEMATIC
SHEET 1
SCALE
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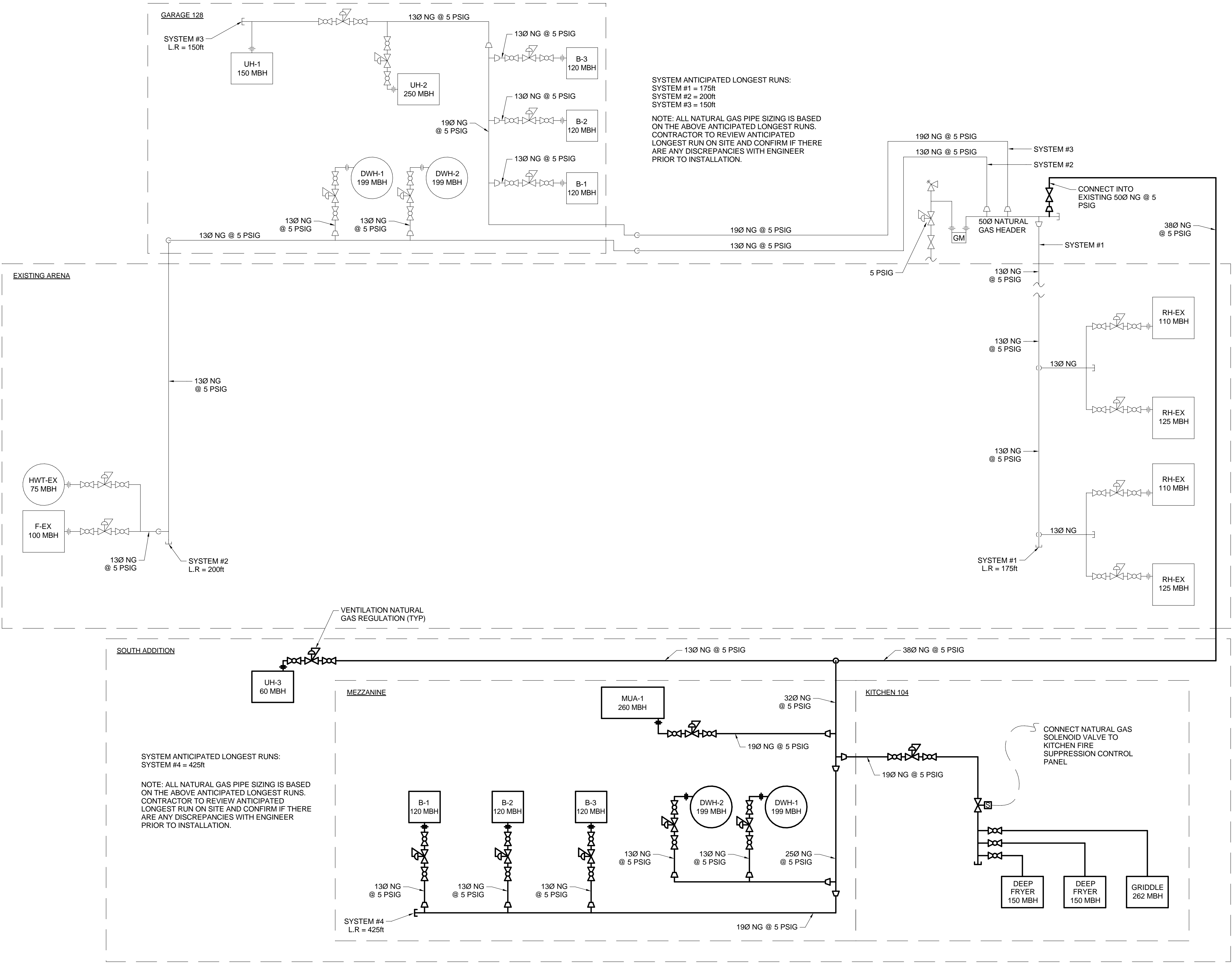
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MECHANICAL SCHEMATIC
SHEET 2

SCALE

PROJECT NUMBER 25-1962-003
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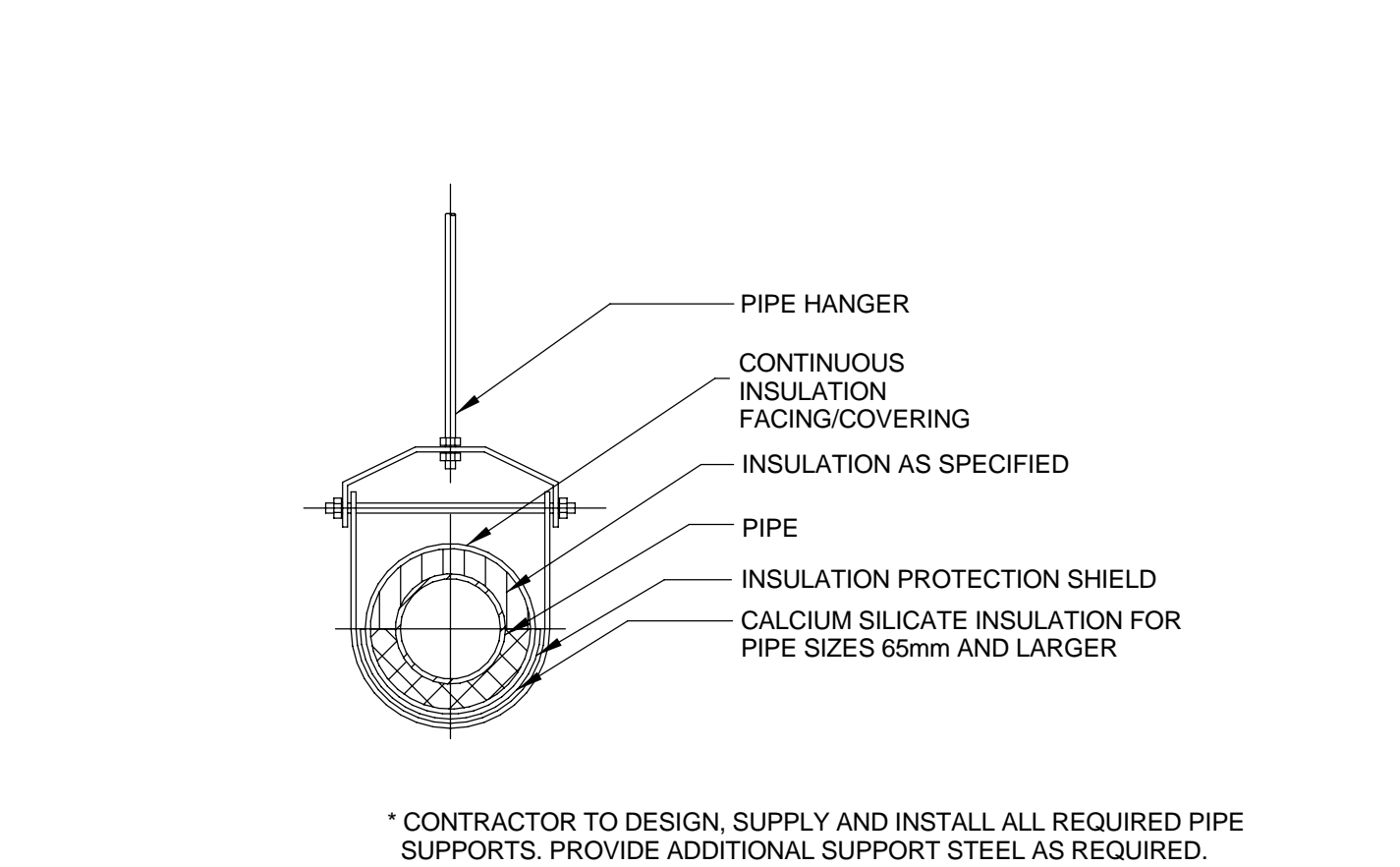
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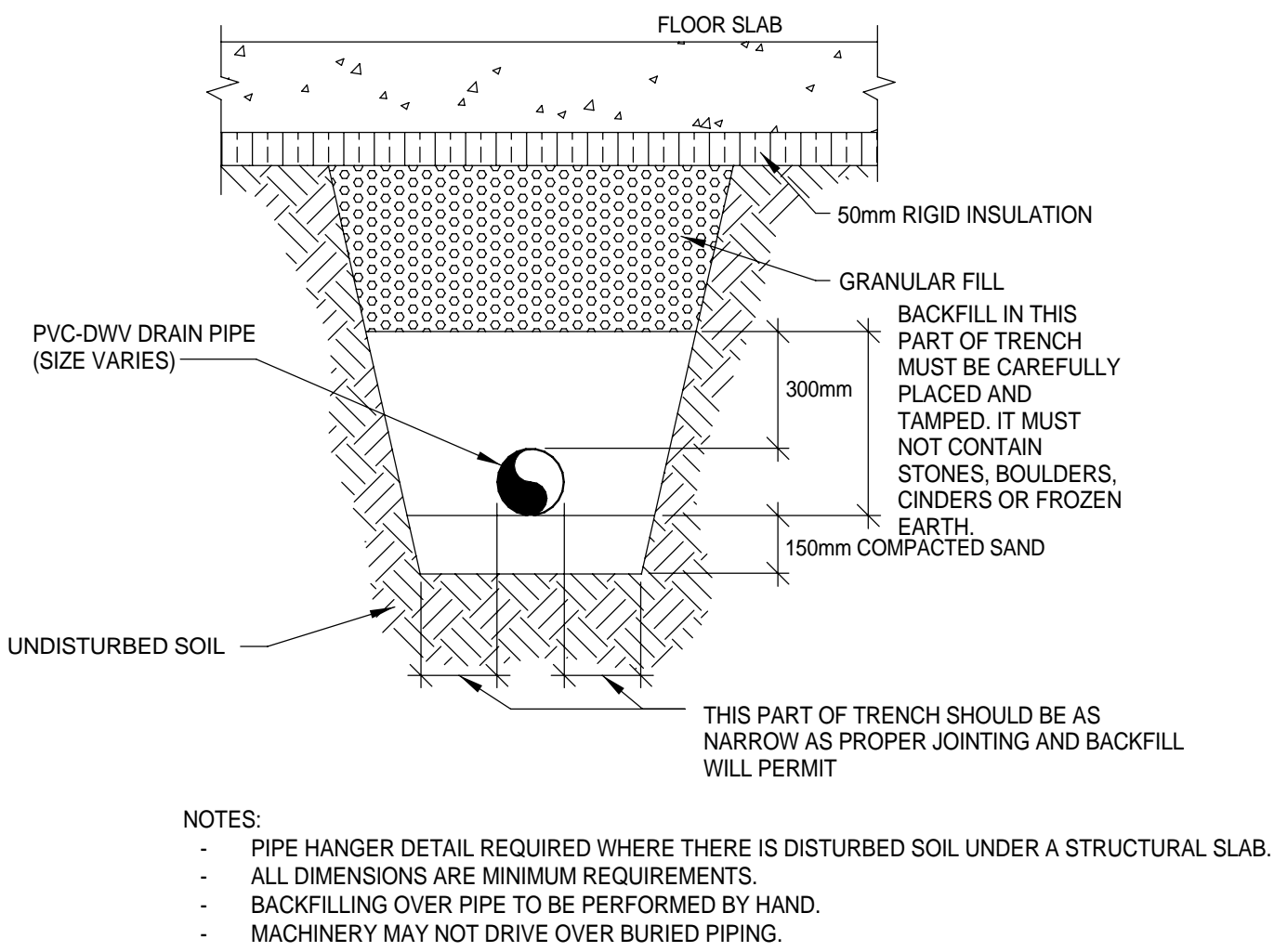
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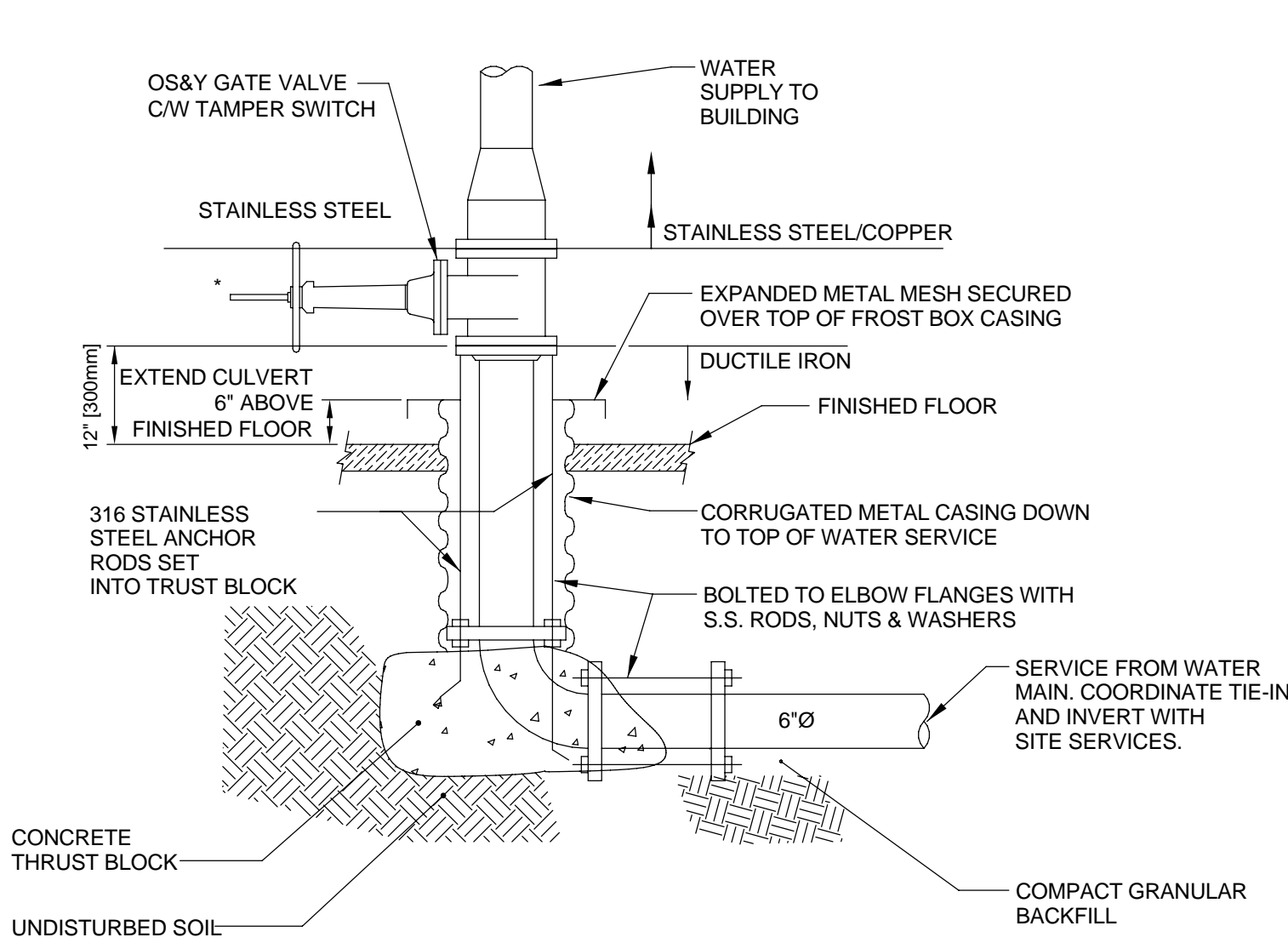
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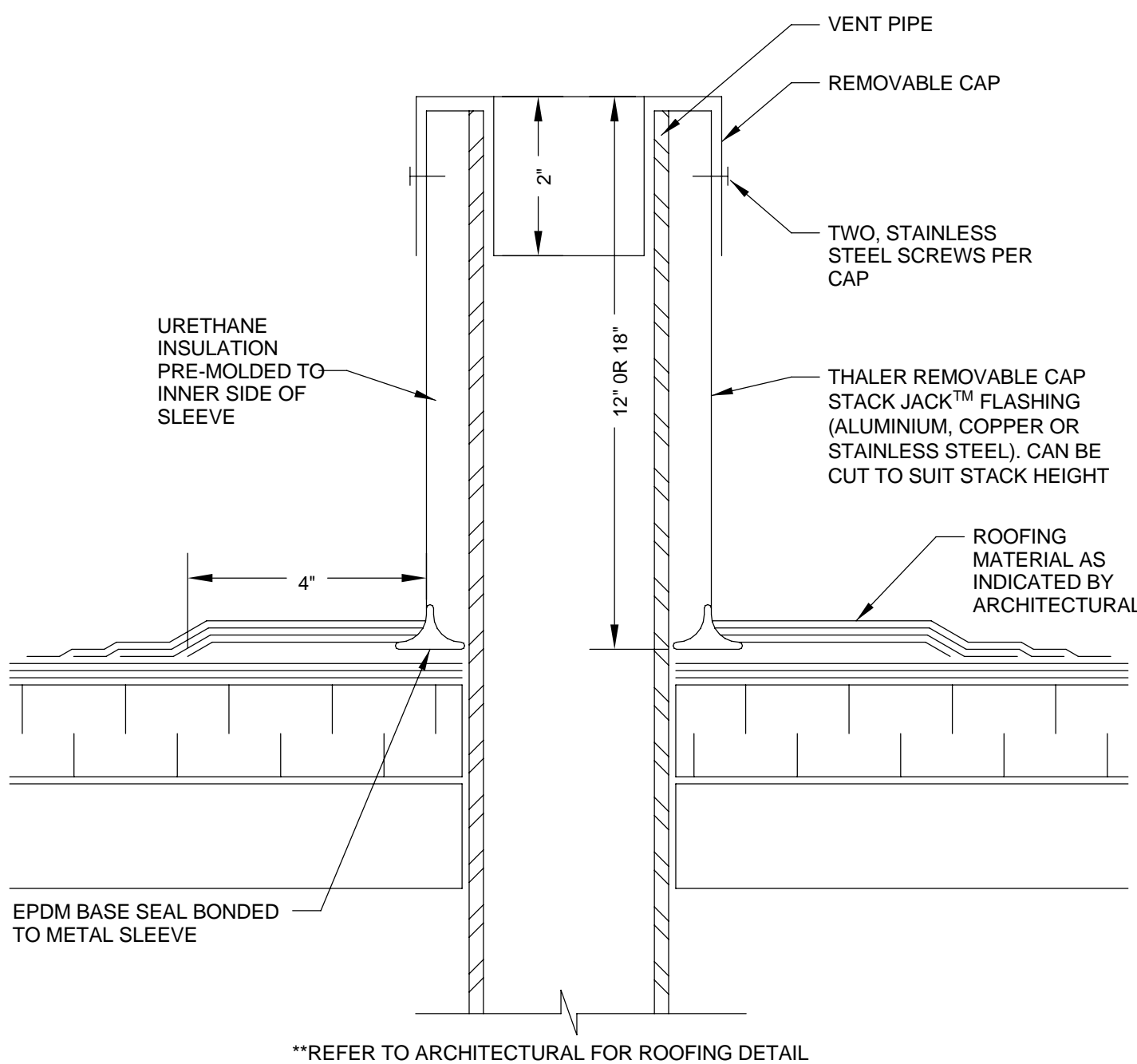
1 INSULATION/PIPE HANGER DETAIL (TYP.)
SCALE: N.T.S.



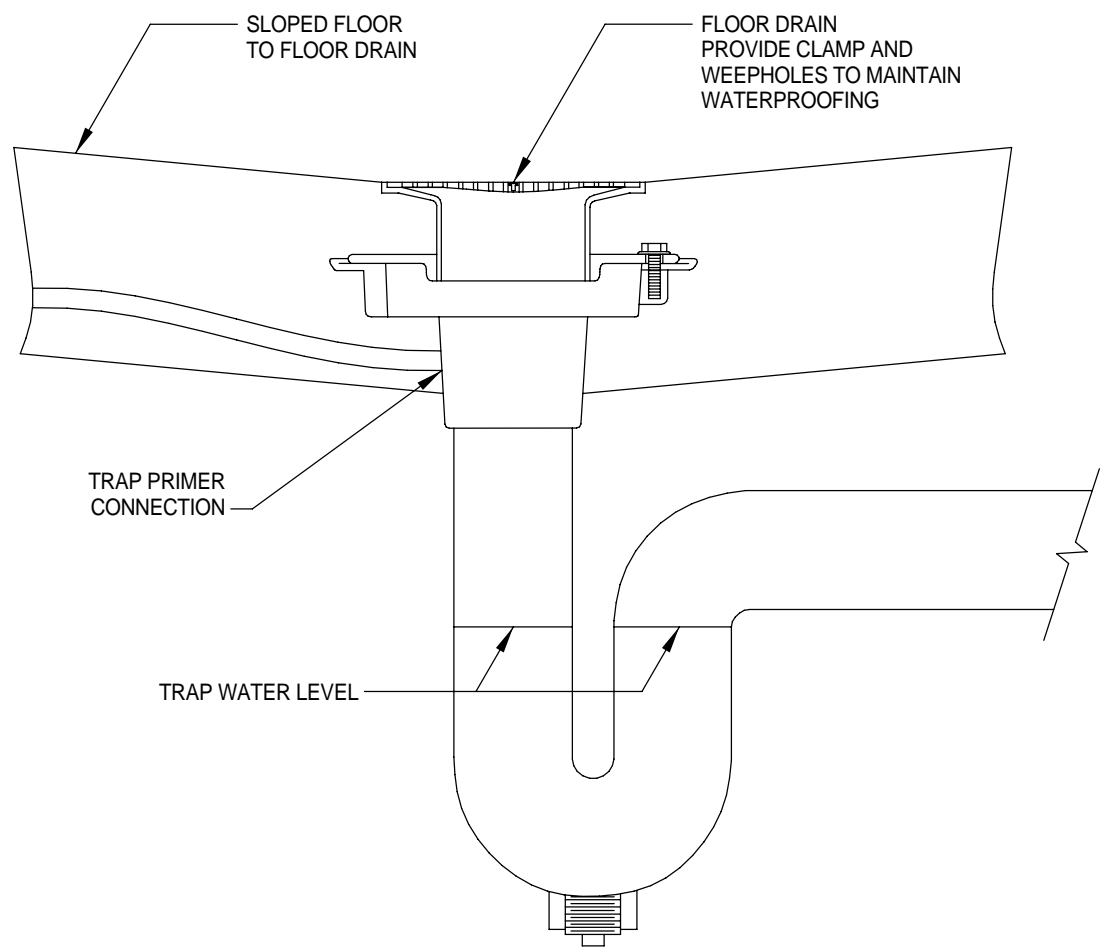
2 SLAB-ON-GRADE UNDERSLAB DRAINAGE PIPING DETAIL
SCALE: N.T.S.



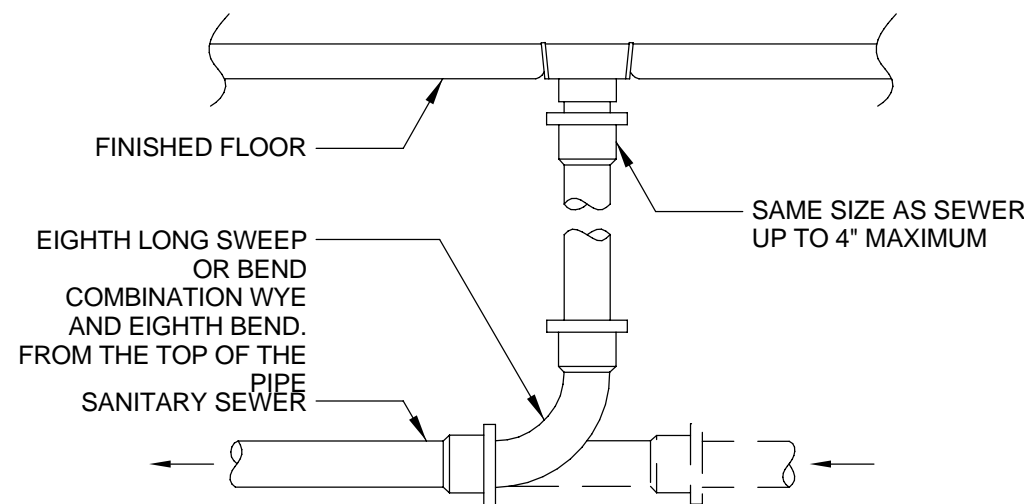
3 DOMESTIC COLD WATER FROST BOX DETAIL
SCALE: N.T.S.



4 TYPICAL ROOF VENT DETAIL
SCALE: N.T.S.



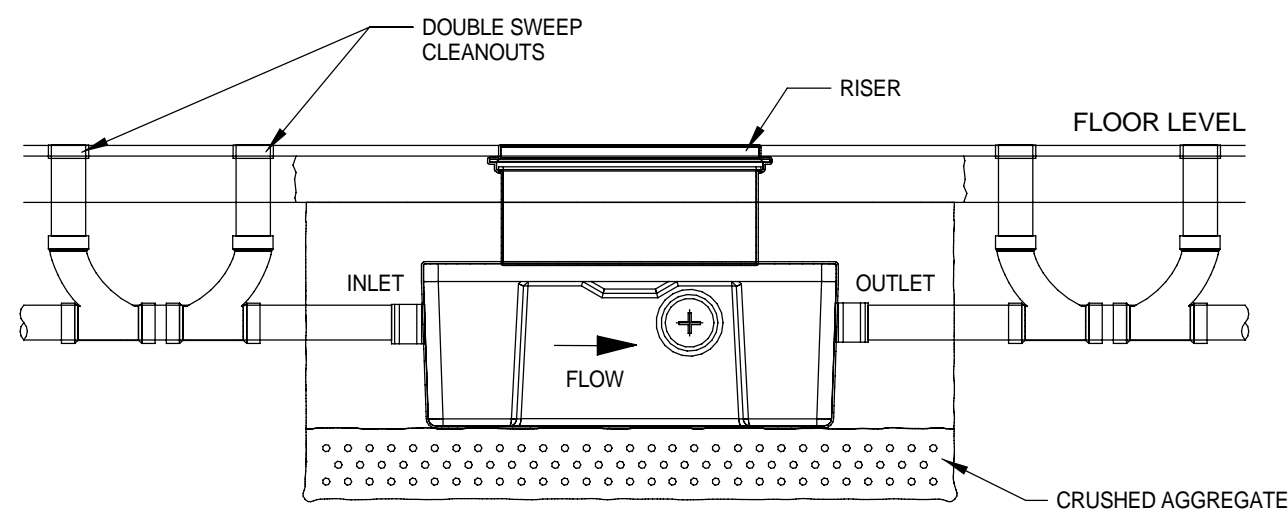
5 FLOOR DRAIN DETAIL
SCALE: N.T.S.



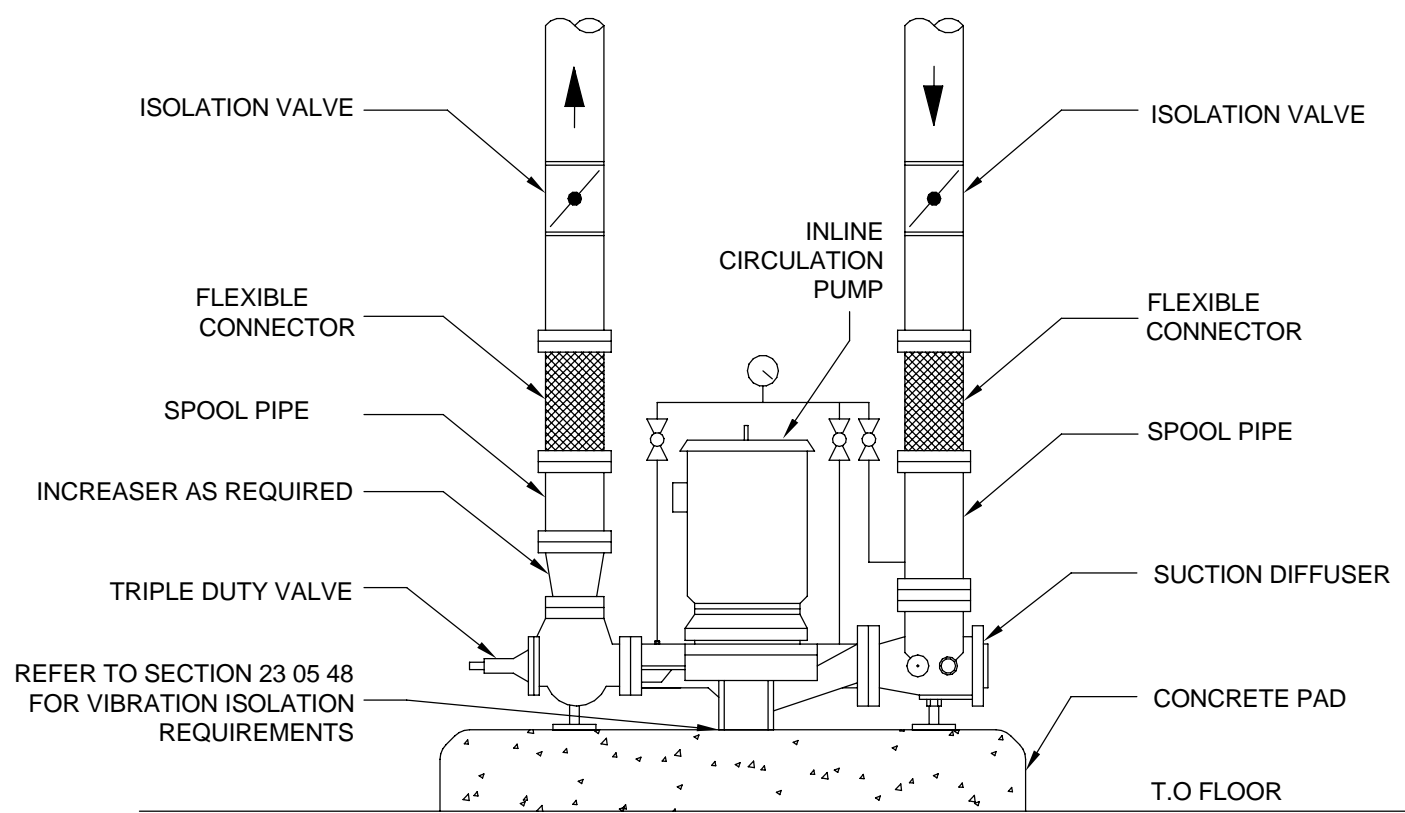
NOTE:

PROVIDE FLOOR CLEANOUTS WHERE SHOWN ON PLANS. LOCATED CLEANOUTS WHERE THERE IS 18" CLEAR AROUND. PROVIDE ROUND SECURED ADJUSTABLE TOP WITH "CO" ON COVER THAT IS SUITABLE FOR THE FLOOR FINISH (CARPET MARKER, RECESSED FOR TILE, SCORRIATED FOR UNFINISHED FLOORS AND ASSOCIATED WATERPROOFING SYSTEM).

6 FLOOR CLEANOUT DETAIL
SCALE: N.T.S.



7 GREASE INTERCEPTOR DETAIL
SCALE: N.T.S.



8 PUMP PIPING DETAIL
SCALE: N.T.S.

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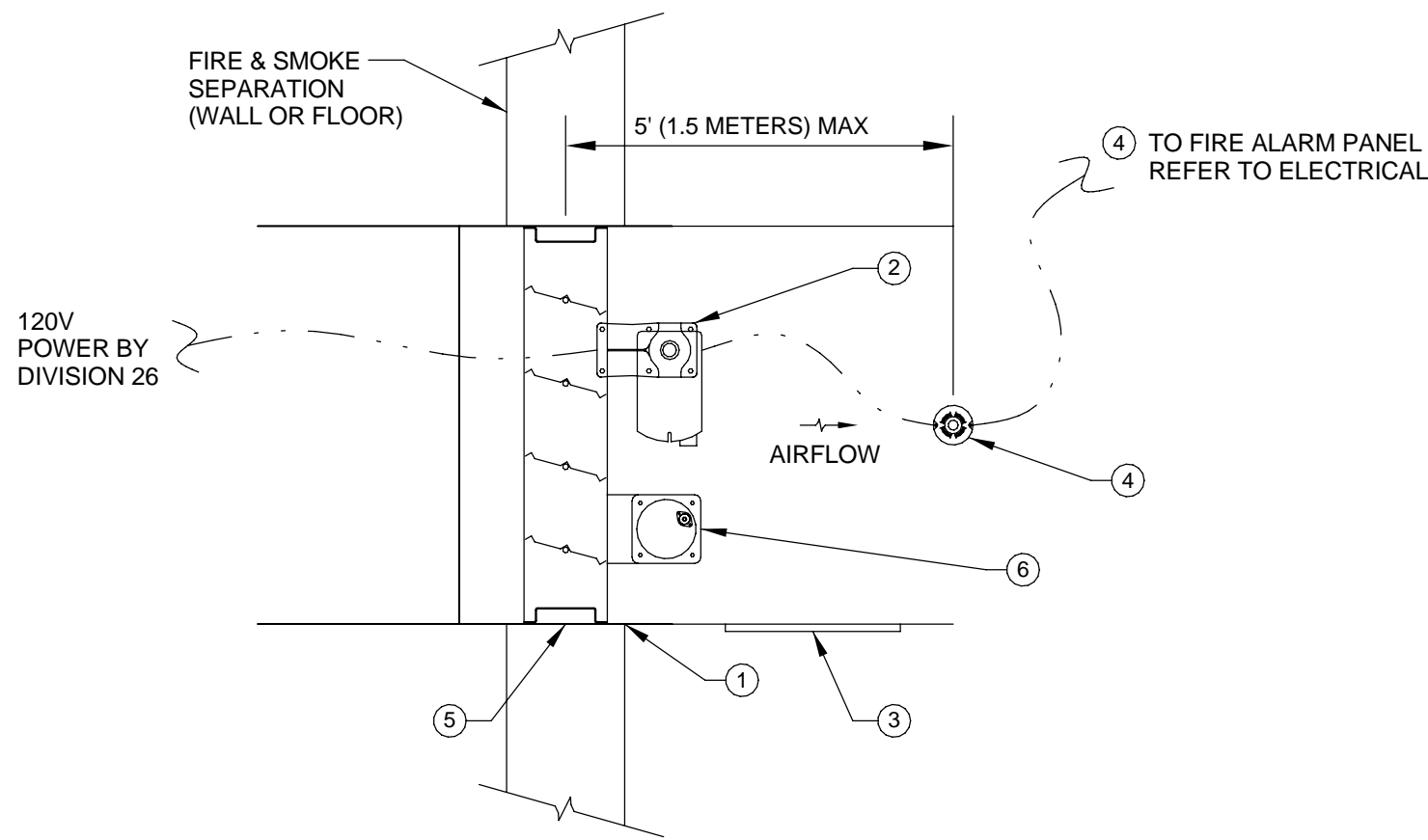
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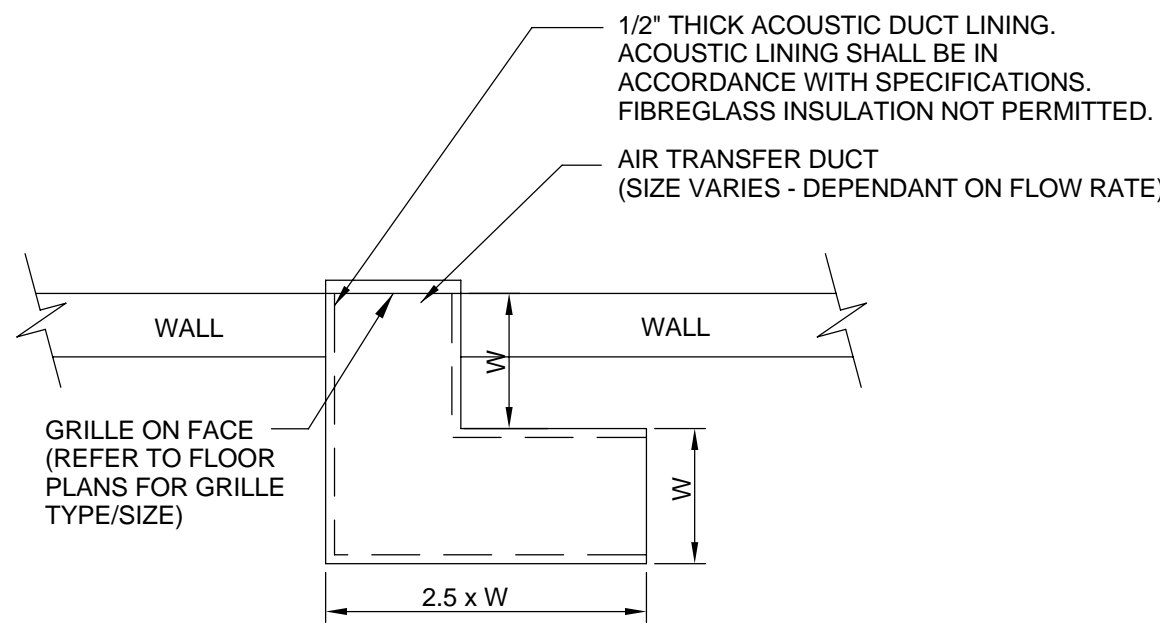
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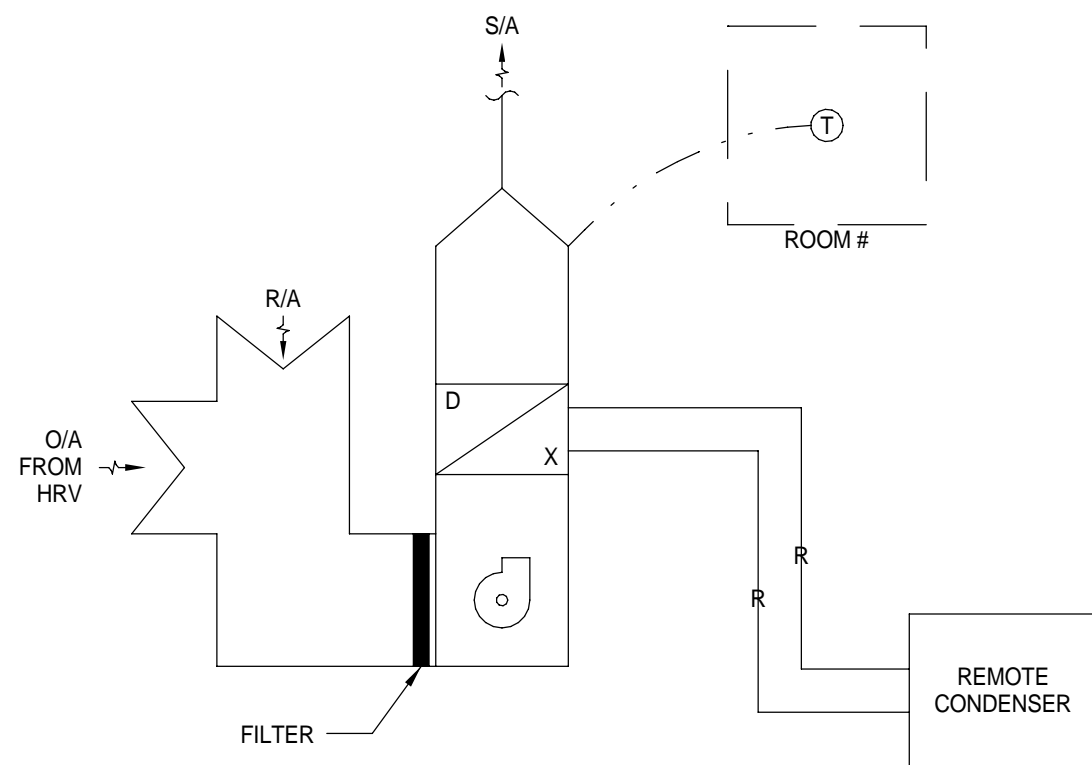


- THIS DETAIL IS FOR GENERAL INFORMATION PURPOSES ONLY. ALWAYS FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS TO SUIT THE SPECIFIC APPLICATION. ALL COMBINATION FIRE/SMOKE DAMPERS SHALL BE UL 555 AND UL 555S LISTED AND MEET THE REQUIREMENTS OF NFPA 80, 90A, 92, 101 & 105.
 - 120V ELECTRONIC ACTUATOR BY FIRE/SMOKE DAMPER MANUFACTURER. COORDINATE POWER REQUIREMENTS WITH DIVISION 26 AND PROVIDE NECESSARY TRANSFORMERS AS REQUIRED. CONTRACTOR TO CONFIRM LEFT HAND OR RIGHT HAND OPERATION TO SUIT ON SITE CONDITIONS PRIOR TO ORDER.
 - PROVIDE TIGHTLY FITTED GASKETED ACCESS DOOR WITH CAM LOCK LATCHES FOR VISUAL INSPECTION AND RESETTING OF THE RELEASE DEVICE. ACCESS DOOR TO BE LABELLED "FIRE/SMOKE DAMPER" IN LETTERS NOT LESS THAN 1/2" (13MM) IN HEIGHT.
 - DUCT MOUNTED SMOKE DETECTOR C/W AIR SAMPLING TUBE PROVIDED BY DIVISION 26 IN ACCORDANCE WITH NFPA 72. INSTALL SMOKE DETECTOR WITHIN 5 FEET (1.5 METERS) DOWNSTREAM FROM THE FIRE/SMOKE DAMPER IN ACCORDANCE WITH CANULC-S524 FOR DUCTED SYSTEMS. PROVIDE SMOKE DETECTION ON BOTH SIDES FOR AIR TRANSFER OPENINGS. SMOKE DETECTOR SHALL BE ULC LISTED.
 - IN WALL OR OUT OF WALL (TO SUIT APPLICATION), COMBINATION FIRE/SMOKE DAMPERS TO BE INSTALLED WITHIN 24" (610MM) OF THE PARTITION.
 - ACCESSORY OPTIONS:
 - RRL & OCI (RESETTABLE REUSABLE LINK & OPEN CLOSE INDICATOR)COORDINATE POWER WITH DIVISION 26 FOR ALL FIRE DAMPER ACCESSORY OPTIONS PROVIDED.
- ** CONTRACTOR SHALL NOT PAINT COMBINATION FIRE/SMOKE DAMPER ASSEMBLY OR ANY ASSOCIATED COMPONENTS. PROTECT IN ACCORDANCE WITH MANUFACTURER INSTALLATION REQUIREMENTS.

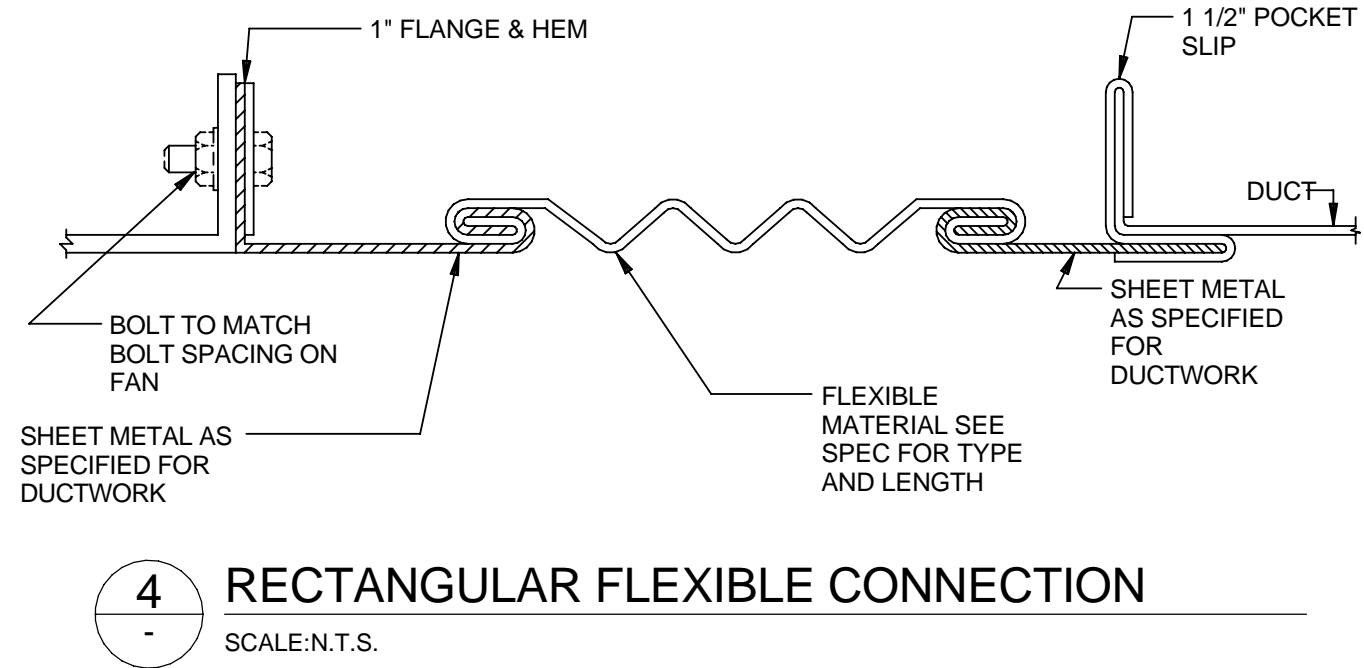
1 COMBINATION FIRE SMOKE DAMPER
SCALE: N.T.S.



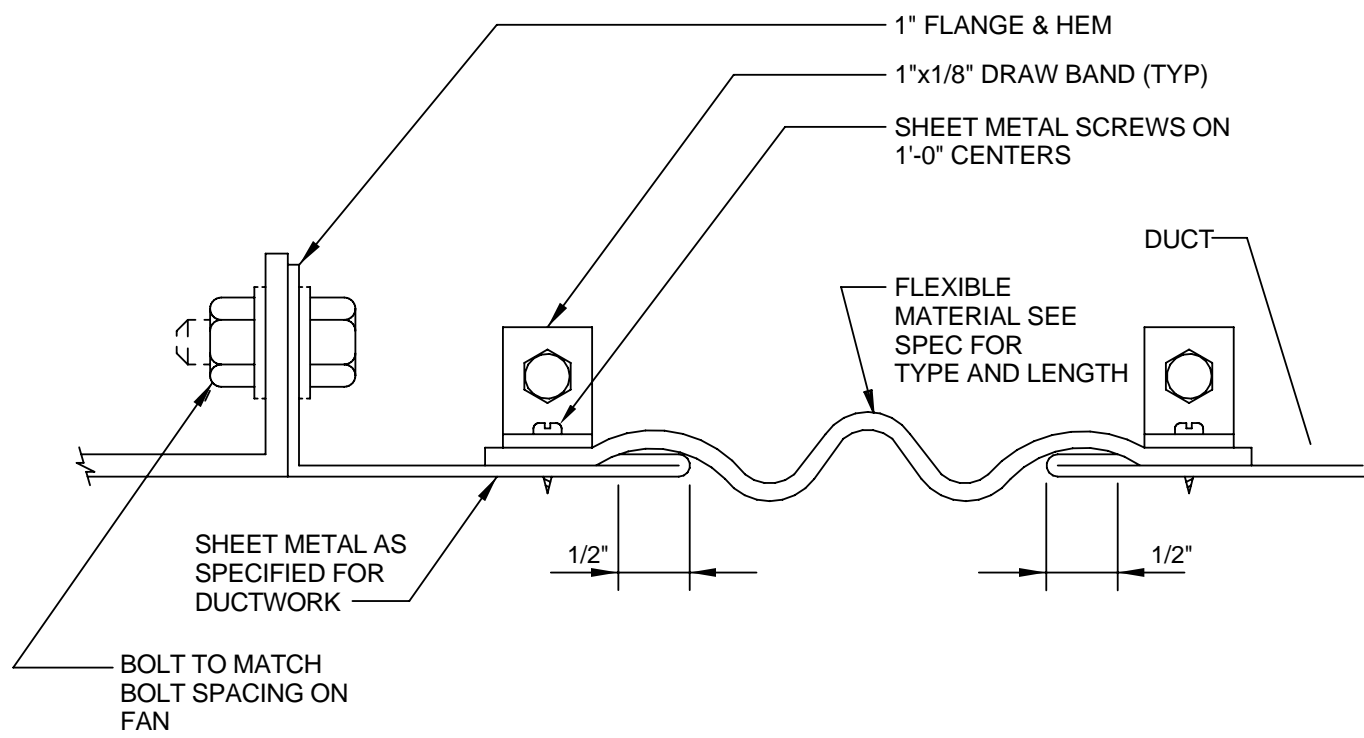
2 TRANSFER AIR DUCT DETAIL
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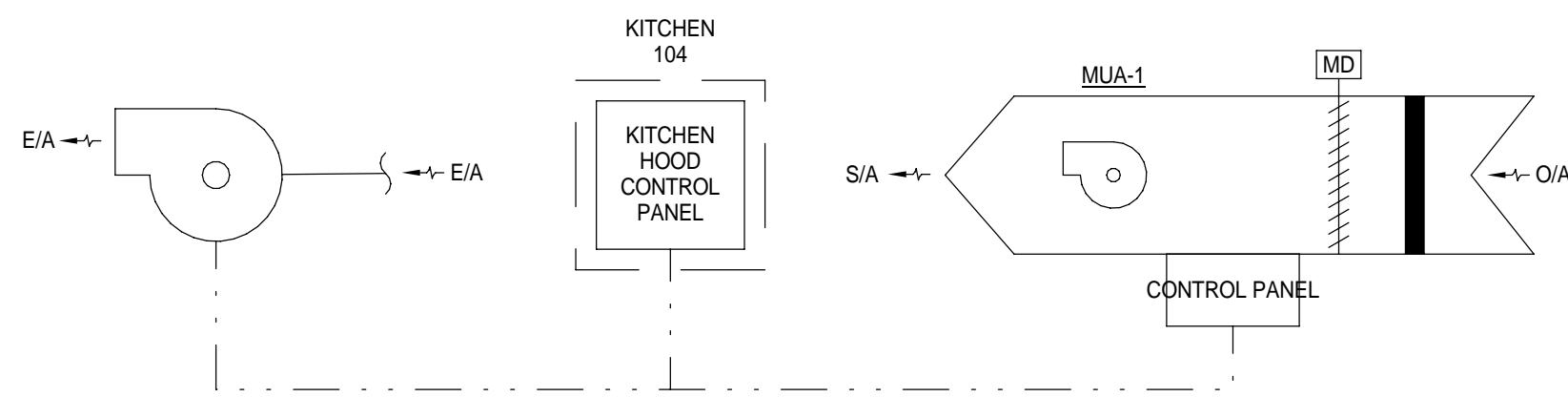
3 FURNACE CONTROL SCHEMATIC (TYP.)
SCALE: N. T. S.



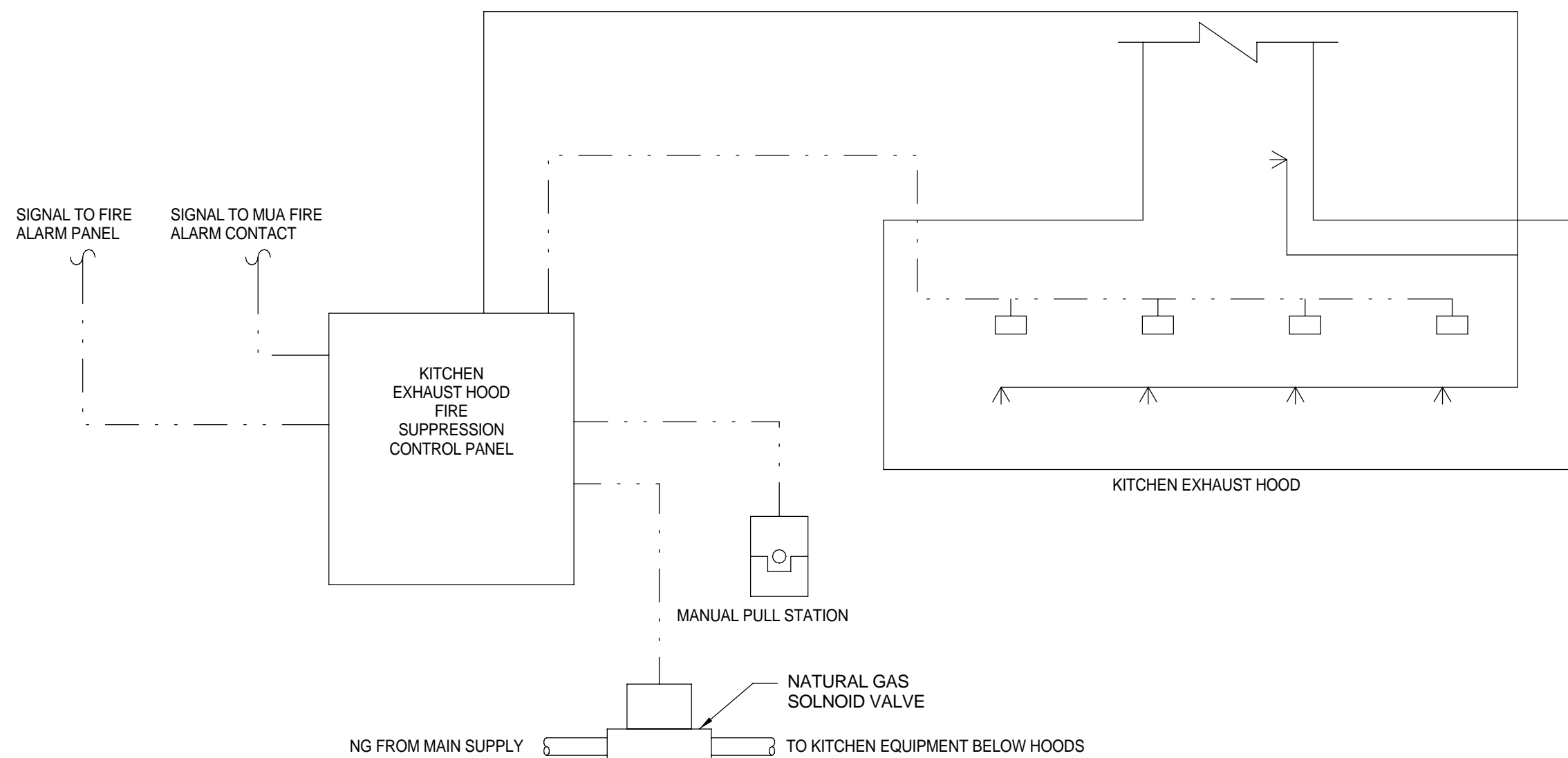
4 RECTANGULAR FLEXIBLE CONNECTION
SCALE: N.T.S.



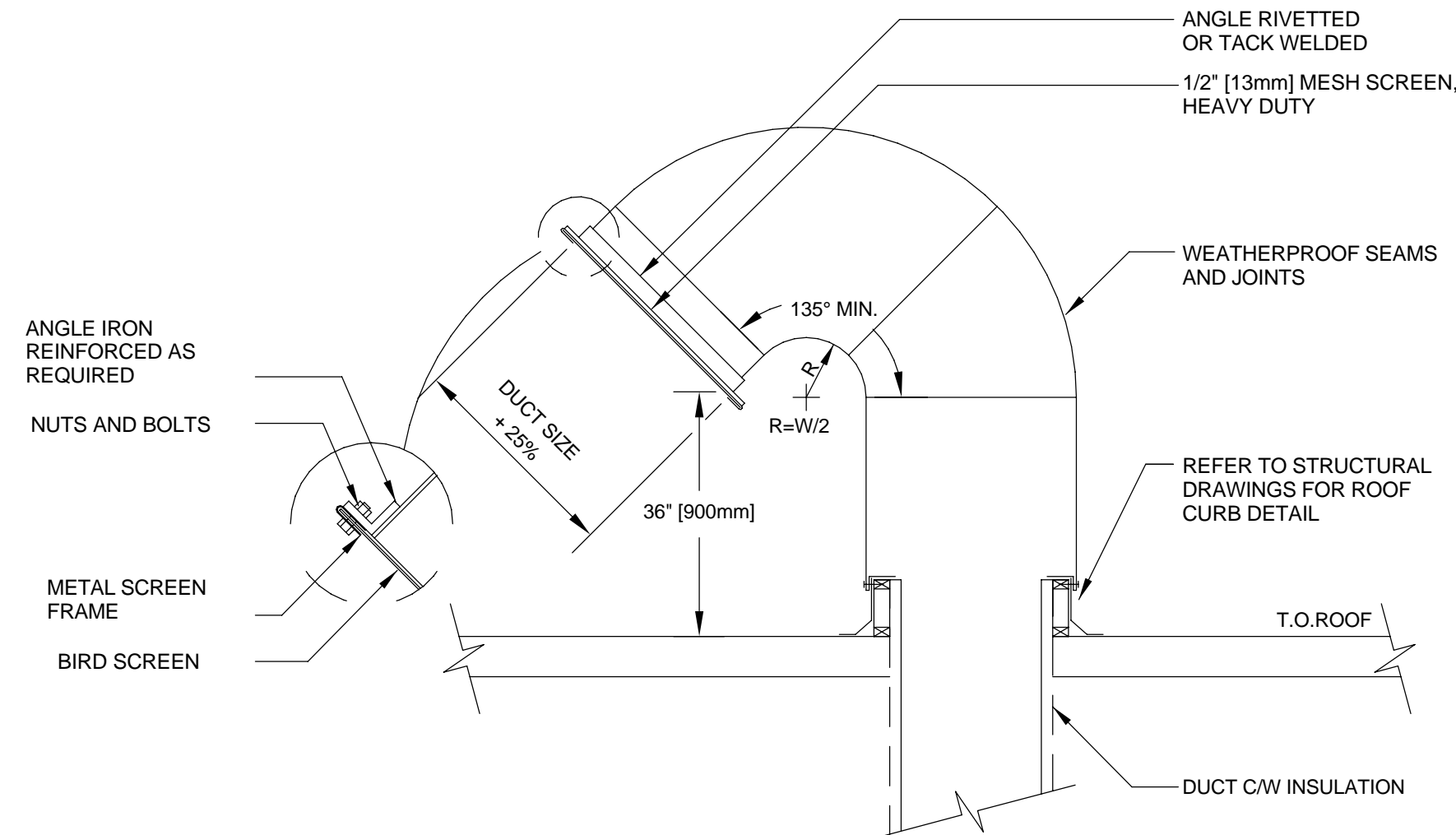
5 ROUND FLEXIBLE CONNECTION
SCALE: N.T.S.



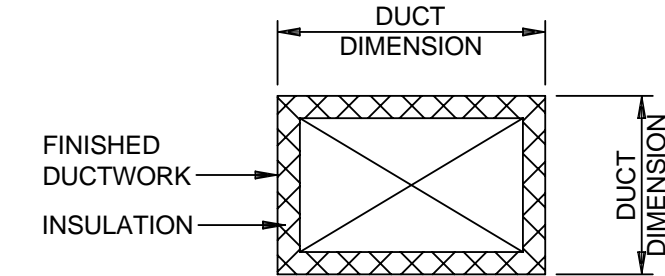
6 KITCHEN MUA / EXHAUST FAN CONTROL SCHEMATIC
SCALE: N. T. S.



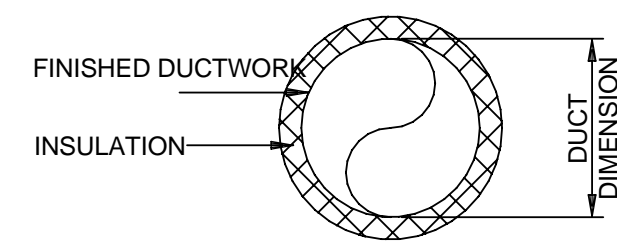
7 TYPICAL KITCHEN EXHAUST HOOD FIRE SUPPRESSION SYSTEM
SCALE: N. T. S.



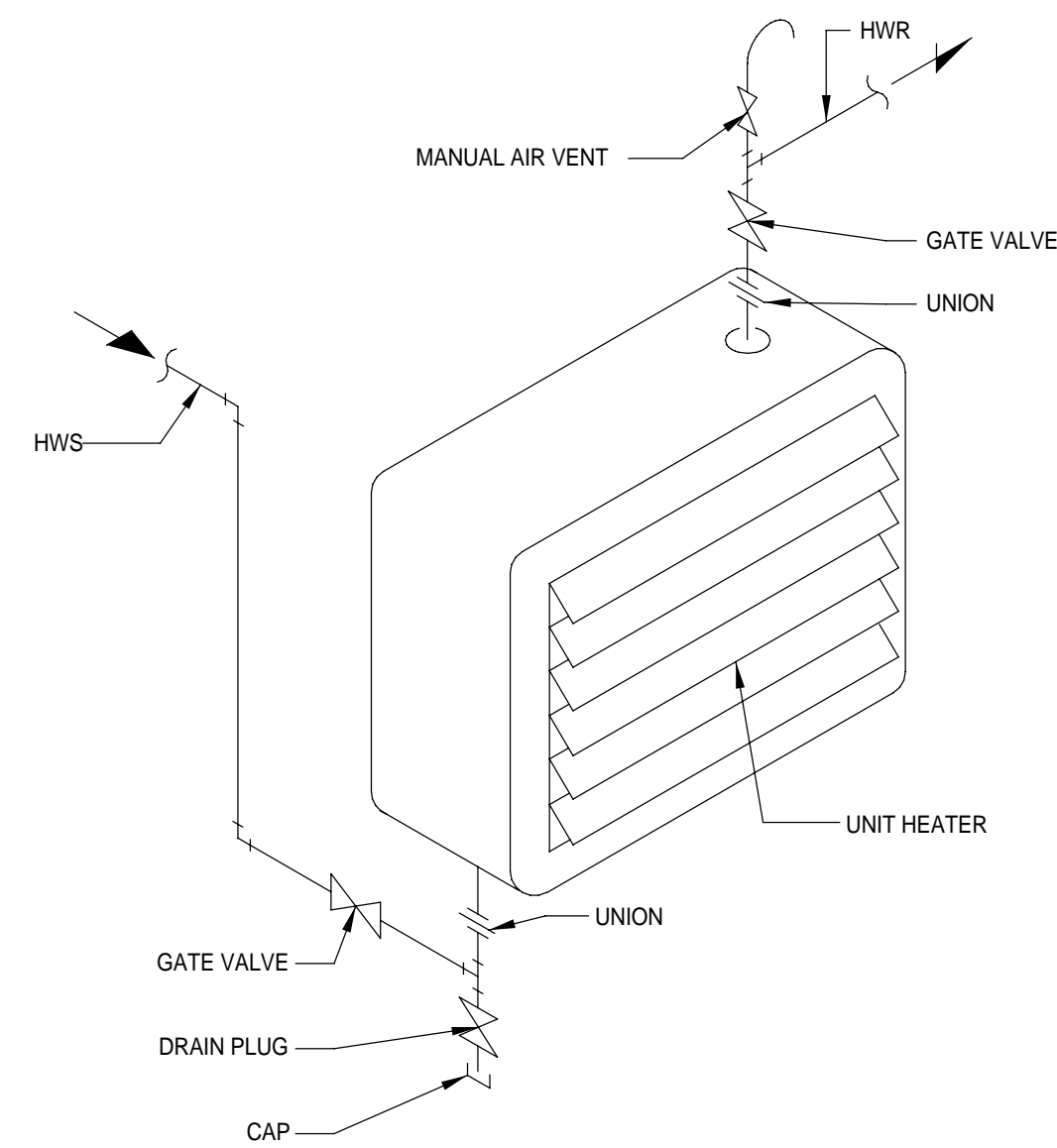
8 GOOSENECK HOOD DETAIL
SCALE: N.T.S.



9 INTERNALLY LINED RECTANGULAR DUCTWORK
SCALE: N.T.S.



10 EXTERNALLY LINED ROUND DUCTWORK
SCALE: N.T.S.



11 UNIT HEATER DETAIL
SCALE: N.T.S.

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