

May 10, 2023 -- 2:24pm -- USER: ScottGroshans
C:\Users\ScottGroshans\AppData\Local\Temp\Projects\202300039_Crash Champions Lees Summit Bldg B -- Rose\Rose-CAD\MECH.dwg
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LINETYPES LEGEND:

- NEW
--- NEW -- ON ROOF
- - - EXISTING
- - - EXISTING -- ON ROOF
- - - - DEMOLITION

DUCTWORK LEGEND:

- DUCT (SINGLE LINE)
= DUCT (DOUBLE LINE)
O → ROUND O/A OR S/A DOWN
O → ROUND O/A OR S/A UP
O → ROUND E/A OR R/A DOWN
O → ROUND E/A OR R/A UP
E → RECTANGULAR O/A OR S/A DOWN
E → RECTANGULAR O/A OR S/A UP
E → RECTANGULAR E/A OR R/A DOWN
E → RECTANGULAR E/A OR R/A UP
X O/A OR S/A DIFFUSER
E/A OR R/A GRILLE
AIR DEVICE WITH FLEX DUCT CONNECTION
AIR DEVICE WITH HARD DUCT CONNECTION
FLEXIBLE CONNECTION TO EQUIPMENT
DUCT BREAK/CONTINUATION
MANUAL BALANCING DAMPER
MOTOR-OPERATED DAMPER
THERMOSTAT

ANNOTATION LEGEND:

- ABC-1 EQUIPMENT / FIXTURE TAG
PLAN NOTE
CONNECT TO EXISTING
AIR FLOW DIRECTION
G/R/D TAG
NECK SIZE
AIR FLOW (CFM)

ABBREVIATIONS LEGEND:

- AFF ABOVE FINISHED FLOOR
APD AIR PRESSURE DROP
CAV CONSTANT AIR VOLUME
CFM CUBIC FEET PER MINUTE
CU CONDENSING UNIT
(E) EXISTING
EA EXHAUST AIR
EAT ENTERING AIR TEMPERATURE
EF EXHAUST FAN
ESP EXTERNAL STATIC PRESSURE
FPM FEET PER MINUTE
HC HEATING CAPACITY
HP HORSEPOWER
IN.WG INCHES WATER GAUGE
LAT LEAVING AIR TEMPERATURE
MAX MAXIMUM
MBH 1,000 BTUH
MIN MINIMUM
NC NOISE CRITERIA
OA OUTDOOR AIR
QTY QUANTITY
RA RETURN AIR
REFR REFRIGERANT
SA SUPPLY AIR
SC SENSIBLE COOLING CAPACITY
TC TOTAL COOLING CAPACITY
TRA TO ROOF ABOVE
TSP TOTAL STATIC PRESSURE
VEL VELOCITY

MECHANICAL GENERAL NOTES:

- DRAWINGS ARE SCHEMATIC IN NATURE AND BASED ON PRELIMINARY SITE OBSERVATION AND ORIGINAL DESIGN DRAWINGS (WHEN AVAILABLE). CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE AND BECOME FULLY AWARE OF ALL FIELD CONDITIONS, CURRENT SYSTEM OPERATION, AS WELL AS COORDINATION REQUIREMENTS. COORDINATE ALL MECHANICAL WORK WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS, AND OTHER TRADES PRIOR TO START OF WORK.
- MECHANICAL WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- COORDINATE WITH ELECTRICAL CONTRACTOR FOR REQUIRED ELECTRICAL POWER WIRING AND ROUGH-IN FOR LOW-VOLTAGE CONTROL WIRING. PROVIDE ALL CONTROL WIRING AND FINAL CONTROL DEVICE (E.G. THERMOSTATS).
- FABRICATE AND INSTALL DUCTWORK PER SMACNA RECOMMENDATIONS FOR THE PRESSURE CLASSIFICATIONS ENCOUNTERED.
 - EXHAUST AIR (DOWNSTREAM OF FAN): +1.0 IN.WG
- PROVIDE ALL CONDENSATE DRAINS FOR EQUIPMENT THAT GENERATES CONDENSATE. COORDINATE WITH PLUMBING CONTRACTOR.
- DUCT DIMENSIONS SHOWN ON THE PLANS INDICATE THE FREE AREA DIMENSIONS. INCREASE SHEET METAL DIMENSIONS AS REQUIRED TO MEET FREE AREA DIMENSIONS WITH LINER INSTALLED.
- FLEXIBLE DUCTWORK SHALL HAVE 2" THICK, MINIMUM R-6.0 INSULATION. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH FOR SUPPLY AIR APPLICATIONS AND 3'-0" IN LENGTH FOR RETURN AIR AND EXHAUST AIR APPLICATIONS.
- TOILET ROOM EXHAUST FANS SHALL BE AS SCHEDULED. PROVIDE A MINIMUM OF 75 CFM EXHAUST PER FLUSH FIXTURE.
- COORDINATE ALL REQUIRED ROOF PENETRATIONS WITH ROOFING CONTRACTOR TO AVOID ROOF WARRANTY CONFLICTS.
- VERIFY AVAILABLE SPACE ABOVE ALL CEILINGS PRIOR TO FABRICATION OR INSTALLATION OF ANY DUCTWORK. COORDINATE DUCT INSTALLATION WITH OTHER TRADES.
- ALL DIMENSIONS SHOWN ON PLAN ARE IN INCHES, UNLESS EXPLICITLY LABELED OTHERWISE.
- PROVIDE A COMPLETE TEST AND BALANCE OF ALL NEW EQUIPMENT AND SYSTEMS, AND OF EXISTING SYSTEMS AS NOTED ON THE DRAWINGS. FINAL SYSTEM TESTING, BALANCING, AND ADJUSTMENTS SHALL BE PERFORMED BY A CONTRACTOR CERTIFIED BY THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). PERFORM TAB AS REQUIRED BY NEBB STANDARDS. BALANCE AIR SYSTEMS TO WITHIN ±10% FOR TERMINAL DEVICES AND BRANCH LINES, AND ±5% FOR MAIN DUCTS AND AIR HANDLING EQUIPMENT OF THE AMOUNT OF AIR SHOWN ON THE DRAWINGS. SUBMIT FINAL TAB REPORT TO ENGINEER REVIEW.
- PROVIDE ACCESS PANELS AND ADEQUATE CLEARANCE FOR ACCESS TO ALL EQUIPMENT, VALVES, DAMPERS AND DEVICES.
- INSPECT ALL EXISTING MECHANICAL EQUIPMENT TO REMAIN. REPORT ANY DEFICIENCIES TO OWNER PRIOR TO START OF WORK.
- LABEL ALL DUCTWORK, PIPING, MAINTENANCE DEVICES, AND EQUIPMENT WITH MANUFACTURER STANDARD LABELING SYSTEMS. COORDINATE WITH OWNER FOR FINAL EQUIPMENT DESIGNATIONS.
- PROVIDE O&M MANUAL TO OWNER UPON COMPLETION OF PROJECT.

FAN SCHEDULE										
TAG	AREA SERVED	MANUFACTURER	MODEL	MOUNTING	AIR FLOW (CFM)	ESP (IN.WG)	MOTOR POWER	DRIVE TYPE	V/PH	NOTES
EF-1	REPAIR GARAGE	GREENHECK	GB-240	ROOF	4300	0.25	3/4 HP	BELT	120/1	B,C,D,G,I
EF-2	PARKING GARAGE	GREENHECK	SP-B200	SUSPENDED	300	0.25	1/30 HP	DIRECT	120/1	C,E,G,H
EF-3	RESTROOM	GREENHECK	CSP-A125	CEILING	100	0.25	52 WATTS	DIRECT	120/1	A,C,D,E,F

NOTES:

- A. PROVIDE WITH MANUFACTURER'S STANDARD HANGING KIT AND CEILING MOUNT TRIM.
B. PROVIDE MINIMUM 1'-2" TALL, INSULATED ROOF CURB WITH DAMPER TRAY. FIELD VERIFY ROOF SLOPE.
C. PROVIDE WITH DISCONNECT SWITCH.
D. PROVIDE WITH BACKDRAFT DAMPER.
E. PROVIDE WITH ROOF DISCHARGE CAP FOR EXHAUST THROUGH THE ROOF.
F. INTERLOCK FAN WITH ASSOCIATED RESTROOM LIGHT SWITCH
G. PROVIDE WITH ALUMINUM BIRDSCREEN AT FAN DISCHARGE.
H. FAN TO OPERATE AT ALL TIMES. COORDINATE WITH ELECTRICAL CONTRACTOR.
I. FAN TO OPERATE SUBJECT TO GAS DETECTION SYSTEM STATE. COORDINATE WITH ELECTRICAL CONTRACTOR.

OUTDOOR AIR CALCULATIONS (MECHANICAL VENTILATION)										
TAG	OCCUPANCY CLASSIFICATION	AREA (FT²)	OCCUPANTS (QTY)	R _p (CFM/PERSON)	MIN OCCUPANT O/A FLOW (CFM)	R _A (CFM/FT²)	MIN AREA O/A FLOW (CFM)	MIN REQ'D O/A FLOW (CFM)	PROVIDED MIN O/A FLOW (CFM)	NOTES
EF-1	REPAIR GARAGE	5,496	--	--	--	0.75	4,122	4,122	4,300	ALL
EF-2	PARKING GARAGE		--	--	--	0.05	275	275	300	

NOTES:

- A. R_p REPRESENTS PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE PER TABLE 403.3.
B. R_A REPRESENTS AREA OUTDOOR AIRFLOW RATE IN BREATHING ZONE PER TABLE 403.3.

UNIT HEATER SCHEDULE							
TAG	MANUFACTURER	MODEL	MOUNTING	OUTPUT	INPUT	VOLT/PHASE	AMP
UH-1	QMARK	CWH1201	WALL	6.1 MBH	1,800 WATTS	120/1/60	15

NOTES:

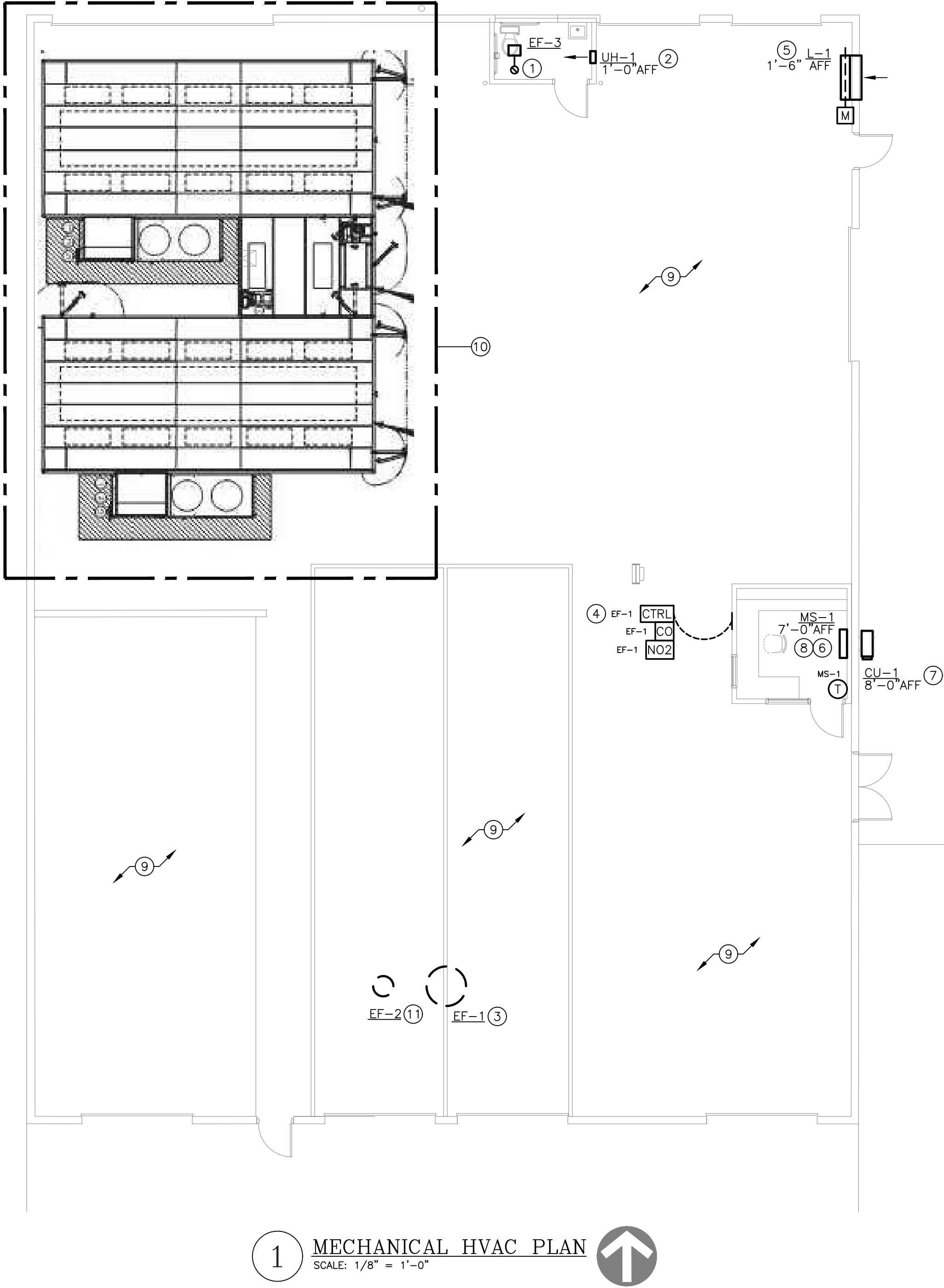
- A. PROVIDE WITH UNIT MOUNTED THERMOSTAT AND DISCONNECT SWITCH.
B. PROVIDE WITH MANUFACTURER'S STANDARD TRIM FOR WALL MOUNTING.

MINI-SPLIT SYSTEM SCHEDULE																							
TAG	MANUFACTURER	FAN COIL MODEL	CONDENSING UNIT MODEL	TONS	SERVES	INDOOR UNIT MOUNTING	FAN COIL SUPPLY FAN			COOLING				HEATING			FAN UNIT ELEC			CONDENSING UNIT ELEC			NOTES
							CFM	ESP (IN)	TYPE	TOT CAP (MBH)	EAT (DB/WB)	LAT (DB/WB)	EAT (DEGF)	LAT (DEGF)	CAP (MBH)	V/PH	MCA	MOCP	V/PH	RLA	LRA		
MS-1 / CU-1	YORK	DHP09NBW11S	DHP09CSB11S	0.75	PARTS MANAGER	WALL	300	0.1	R-410A	9	75/63	55/54	65	90	9.6	120/1	17	25	120/1	5	25	A-C	

APPROVED MANUFACTURERS: DAIKIN, LG, MITSUBUSHI, YORK, OR PRE-APPROVED EQUAL.

NOTES:

- A. PROVIDE WITH MANUFACTURER'S STANDARD FILTER SYSTEM.
B. EQUIPMENT SIZED FOR 100 DEGF AMBIENT SUMMER AND 14 DEGF AMBIENT WINTER CONDITIONS.
C. PROVIDE WITH MANUFACTURER'S STANDARD CONTROLLER.



1 MECHANICAL HVAC PLAN

SCALE: 1/8" = 1'-0"

MECHANICAL PLAN NOTES:

- ROUTE 8" EXHAUST DUCT FROM EXHAUST FAN THROUGH ROOF. PROVIDE ROOF PENETRATION AND VENT CAP PER MANUFACTURER'S RECOMMENDATIONS. LOCATE DISCHARGE AT MINIMUM OF 10'-0" FROM ANY BUILDING OPENINGS OR OUTDOOR AIR INTAKES.
- LOCATE UNIT HEATER ON WALL WHERE SHOWN. INSTALL PER MANUFACTURER'S REQUIREMENTS.
- INSTALL EXHAUST FAN ON ROOF PER MANUFACTURER'S REQUIREMENTS. COORDINATE ROOF PENETRATIONS WITH OTHER TRADES. INSTALL AT MINIMUM OF 10'-0" FROM HVAC OUTDOOR AIR INTAKES.
- PROVIDE CARBON MONOXIDE / NITROGEN DIOXIDE DETECTION SYSTEM, MONOXIVENT MODEL # FDS-SA-CO-NO OR EQUAL, WITH CONTROLLER AND QUANTITY OR SENSORS AS RECOMMENDED BY THE MANUFACTURER. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
- PROVIDE MOTOR OPERATED DAMPER IN LOUVER. MATCH DAMPER SIZE TO LOUVER FACE DIMENSIONS. ACTUATOR TO BE 120 VOLT, SPRING CLOSED, INTERLOCK DAMPER WITH GAS DETECTION SYSTEM.
- INSTALL WALL-MOUNTED MINI-SPLIT INDOOR UNIT WHERE INDICATED ON PLAN, AT MINIMUM 7'-0" AFF. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- INSTALL MINI-SPLIT CONDENSING UNIT ON WALL-MOUNTED BRACKETS, AT MINIMUM 8'-0" WALL HEIGHT.
- PROVIDE REFRIGERANT PIPING FROM INDOOR MINI-SPLIT UNIT TO ITS ASSOCIATED OUTDOOR CONDENSING UNIT. SIZE AND SLOPE REFRIGERANT PIPING, AND PROVIDE VALVES AND SPECIALS AS REQUIRED BY THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
- HEATING SYSTEM IN SHOP AREA IS EXISTING TO REMAIN.
- ALL MECHANICAL SYSTEMS IN SPRAY BOOTH AREA ARE EXISTING TO REMAIN.
- SUSPEND INLINE EXHAUST FAN FROM STRUCTURE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE ROOF PENETRATION WITH OTHER TRADES. INSTALL AT MINIMUM OF 10'-0" FROM HVAC OUTDOOR AIR INTAKES.



05/10/2023

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BUILDING B INTERIOR MODIFICATIONS:

CRASH CHAMPIONS

UNIT B 451 SE OLDHAM PARKWAY

LEE'S SUMMIT, MISSOURI

NO.	DESCRIPTION	DATE
---	FOR PERMIT	05.10.2023

PROJECT NUMBER 23016

DATE ISSUED: 05 / 10 / 2023

SHEET NUMBER

M1.0

MECHANICAL PLAN

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LINETYPES LEGEND:

- NEW — ABOVE SLAB
- - - - NEW — BELOW SLAB
- - - - EXISTING — ABOVE SLAB
- - - - EXISTING — BELOW SLAB
- - - - DEMOLITION

PIPING LEGEND:

- ↪ ELBOW DOWN
- ↪ ELBOW UP
- ⊕ P-TRAP
- ⊕ TEE DOWN
- ⊕ ELBOW UP
- ⊕ SHUT-OFF VALVE (GENERIC)
- ⊕ BALL VALVE
- ⊕ GLOBE VALVE
- ⊕ BUTTERFLY VALVE
- ⊕ GATE VALVE
- ⊕ CHECK VALVE
- ⊕ BALANCING VALVE
- ⊕ PRESSURE REDUCING VALVE
- ⊕ GAS COCK
- ⊕ WYE-STRAINER
- ⊕ UNION
- ⊕ FLANGE
- ⊕ RELIEF VALVE
- ⊕ AIR VENT (MANUAL/AUTOMATIC)
- ⊕ FLOW DIRECTION
- ⊕ PIPE BREAK / CONTINUATION
- ⊕ FLOOR DRAIN
- ⊕ FLOOR SINK
- ⊕ FLOOR CLEANOUT
- ⊕ HOSE BIBB

ANNOTATION LEGEND:

- ABC-1 EQUIPMENT / FIXTURE TAG
- ⊕ PLAN NOTE
- ⊕ CONNECT TO EXISTING

ABBREVIATIONS LEGEND:

- AFF ABOVE FINISHED FLOOR
- CW DOMESTIC COLD WATER
- (E) EXISTING
- ECO EXTERIOR CLEANOUT
- ET EXPANSION TANK
- FTO FLOOR CLEANOUT
- FD FLOOR DRAIN
- FT.WG FEET WATER GAUGE
- GPM GALLONS PER MINUTE
- HB HOSE BIBB
- HP HORSEPOWER
- IE INVERT ELEVATION
- LV LAVATORY
- MAX MAXIMUM
- MIN MINIMUM
- NHB NON-FREEZE HOSE BIBB
- QTY QUANTITY
- RPZ REDUCED PRESSURE ZONE BACKFLOW PREVENTER
- S SANITARY WASTE
- SOI SAND/OIL INTERCEPTOR
- SP SEWAGE PUMP
- TMV THERMOSTATIC MIXING VALVE
- TRA TO ROOF ABOVE
- V VENT
- WC WATER CLOSET
- WH WATER HEATER
- WCO WALL CLEANOUT

PLUMBING GENERAL NOTES:

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- PLUMBING WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- PRIOR TO START OF WORK, CONTRACTOR SHALL CAMERA ALL EXISTING UNDERGROUND SANITARY SEWER LINES. VERIFY UNDERGROUND PIPING LOCATION, DEPTH AND FLOW DIRECTION. REPORT ANY PIPING DAMAGE OR LOCATION DISCREPANCIES TO ENGINEER AND/OR OWNER PRIOR TO START OF WORK.
- EXACT LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO ANY INSTALLATION OF CONNECTIONS THEREOF. ALL CONNECTIONS TO EXISTING UTILITIES (E.G. DOMESTIC WATER AND SEWER) SHALL BE MADE WITH APPROVAL OF THE ADMINISTRATIVE AUTHORITY AND THE RESPECTIVE UTILITY COMPANIES.
- SANITARY WASTE AND VENT PIPING BELOW GRADE SHALL BE SCHEDULE 40 PVC WITH SOLVENT-WELDED JOINTS.
- SANITARY WASTE AND VENT PIPING ABOVE GRADE SHALL BE NO-HUB CAST IRON. SCHEDULE 40 PVC PIPING WITH SOLVENT-WELDED JOINTS MAY BE USED IN AREAS OTHER THAN RETURN AIR PLENUMS AS ALLOWED BY CODE.
- SLOPE SANITARY PIPING AS FOLLOWS: 1/4" PER FOOT FOR PIPE SIZES 2-1/2" AND SMALLER, AND 1/8" PER FOOT FOR PIPE SIZES 3" AND LARGER.
- CONDENSATE DRAIN PIPING SHALL BE TYPE M COPPER PIPING WITH WROUGHT FITTINGS AND SOLDERED JOINTS. SCHEDULE 40 PVC PIPING WITH SOLVENT-WELDED JOINTS MAY BE USED IN AREAS OTHER THAN RETURN AIR PLENUMS AS ALLOWED BY CODE.
- SLOPE CONDENSATE DRAIN PIPING AS FOLLOWS: 1/4" PER FOOT FOR ALL PIPE SIZES.
- PROVIDE WATER SUPPLY SHUT-OFF VALVES ON EACH TOILET ROOM GROUP AND TO MISCELLANEOUS EQUIPMENT.
- PROVIDE SIZE "A" WATER HAMMER ARRESTORS ON SUPPLY TO ALL PLUMBING FIXTURES.
- PROVIDE STOP VALVES ON ALL INDIVIDUAL PLUMBING FIXTURE SUPPLIES.
- COORDINATE SELECTION OF ALL PLUMBING FIXTURES WITH ARCHITECT AND OWNER. ALL HANDICAPPED FIXTURES (WHERE REQUIRED) SHALL COMPLY WITH A.D.A. REQUIREMENTS.
- DOMESTIC WATER PIPING BELOW GRADE SHALL BE TYPE K SOFT COPPER WITH FLARED FITTINGS OR TYPE K HARD COPPER WITH WROUGHT FITTINGS AND SOLDERED JOINTS.
- DOMESTIC WATER PIPING ABOVE GRADE SHALL BE TYPE L COPPER WITH WROUGHT FITTINGS AND SOLDERED JOINTS.
- INSULATE NEW DOMESTIC COLD WATER, HOT WATER, AND INTERIOR CONDENSATE DRAIN PIPING WITH MINIMUM 1" FIBERGLASS INSULATION (MINIMUM R-4.0) WITH PAPER COVERING.
- INSTALL ALL PLUMBING EQUIPMENT, FIXTURES, VALVES, ETC. PER MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE ADDITIONAL APPURTENANCES PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- INSTALL CLEANOUTS AT EVERY END OF SANITARY PIPING RUNS, AT MINIMUM OF EVERY 100'-0" OF SANITARY PIPING, AND AT EVERY CHANGE IN DIRECTION GREATER THAN 45°. REFER TO SECTION 708 OF THE INTERNATIONAL PLUMBING CODE FOR ADDITIONAL REQUIREMENTS.
- EXISTING NATURAL GAS SYSTEM SHALL REMAIN IN USE. VERIFY PROPER OPERATION AND REPORT ANY DEFICIENCIES TO OWNER.

PLUMBING FIXTURE SCHEDULE:

INFORMATION BELOW IS FOR GENERAL FIXTURE REQUIREMENTS ONLY. PLUMBING CONTRACTOR SHALL COORDINATE WITH OWNER AND ARCHITECT FOR EXACT FIXTURE REQUIRED FOR THE PROJECT. COORDINATE WITH OWNER FOR INFORMATION ON PROCURING FIXTURES AND ASSOCIATED COSTS. CONTRACTOR SHALL BE CLEAR AS TO WHAT FIXTURES ARE INCLUDED IN THEIR PROPOSED COSTS.

FIXTURES IN THIS SCHEDULE, OR THE APPROVED EQUIVALENT, SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FURTHER REQUIREMENTS.

ET1

- EXPANSION TANK: 150 PSIG MAXIMUM WORKING PRESSURE, 2.0-GALLON CAPACITY, 0.45" MAXIMUM ACCEPTANCE FACTOR, AND 3/4" PIPE CONNECTION. SET THE AIR CHARGE PRESSURE TO MATCH EXISTING WATER SYSTEM PRESSURE.

FCO1

- FLOOR CLEANOUT - HEAVY DUTY: JAY R. SMITH # 4111L CAST IRON BODY, FLASHING FLANGE WITH CLAMPING COLLAR, ABS PLUG, AND ADJUSTABLE, ROUND, SECURED, HEAVY DUTY SCORATED NICKEL BRONZE TOP.

FD1

- FLOOR DRAIN: SIOUX CHIEF # 860-APLU SERIES WITH 5" DEEP ROUND PVC BODY, PVC SOCKET OUTLET, ANCHOR FLANGE, ROUND PVC DEBRIS BUCKET, 9" ROUND CAST IRON GRATE AND FRAME. PROVIDE TRAP GUARD.

LV1

- WALL-MOUNTED LAVATORY (ADA ACCESSIBLE): RECTANGULAR WALL MOUNTED WHITE VITREOUS CHINA FIXTURE WITH FAUCET LEDGE AND FRONT OVERFLOW.
- FAUCET: 4" CENTERSET, VANDAL-RESISTANT, WITH LEVER HANDLES AND 0.5 GPM AERATOR.
- TRIM: GRID DRAIN WITH TAILPIECE, QUARTER-TURN BALL TYPE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, 1-1/4" 17-GAUGE TUBULAR CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, CONCEALED ARM CARRIER WITH ANCHIONS TO FLOOR AND INSULATION KIT FOR WATER AND WASTE PIPES.

SP1

- SEWAGE PUMP: ZOELLER SERIES 912 SIMPLEX SEWAGE SYSTEM OR EQUAL, COMPLETE SEWAGE PUMP SYSTEM WITH BASIN, PUMP, AND NON-CLOG CHECK VALVE. SET PUMP FOR 20 GPM AT 18.0 FT.WG HEAD WITH A 2" DISCHARGE CONNECTION.
- ACCESSORIES: CONTROL PANEL, HIGH LEVEL ALARM, BATTERY BACKUP, RETRIEVAL SYSTEM, FLOAT SWITCHES, AND OTHER ACCESSORIES FOR A COMPLETE SYSTEM.
- ELECTRICAL: 1/2 HP PUMP MOTOR, 120V/1Ø POWER CONNECTION.

TMV1

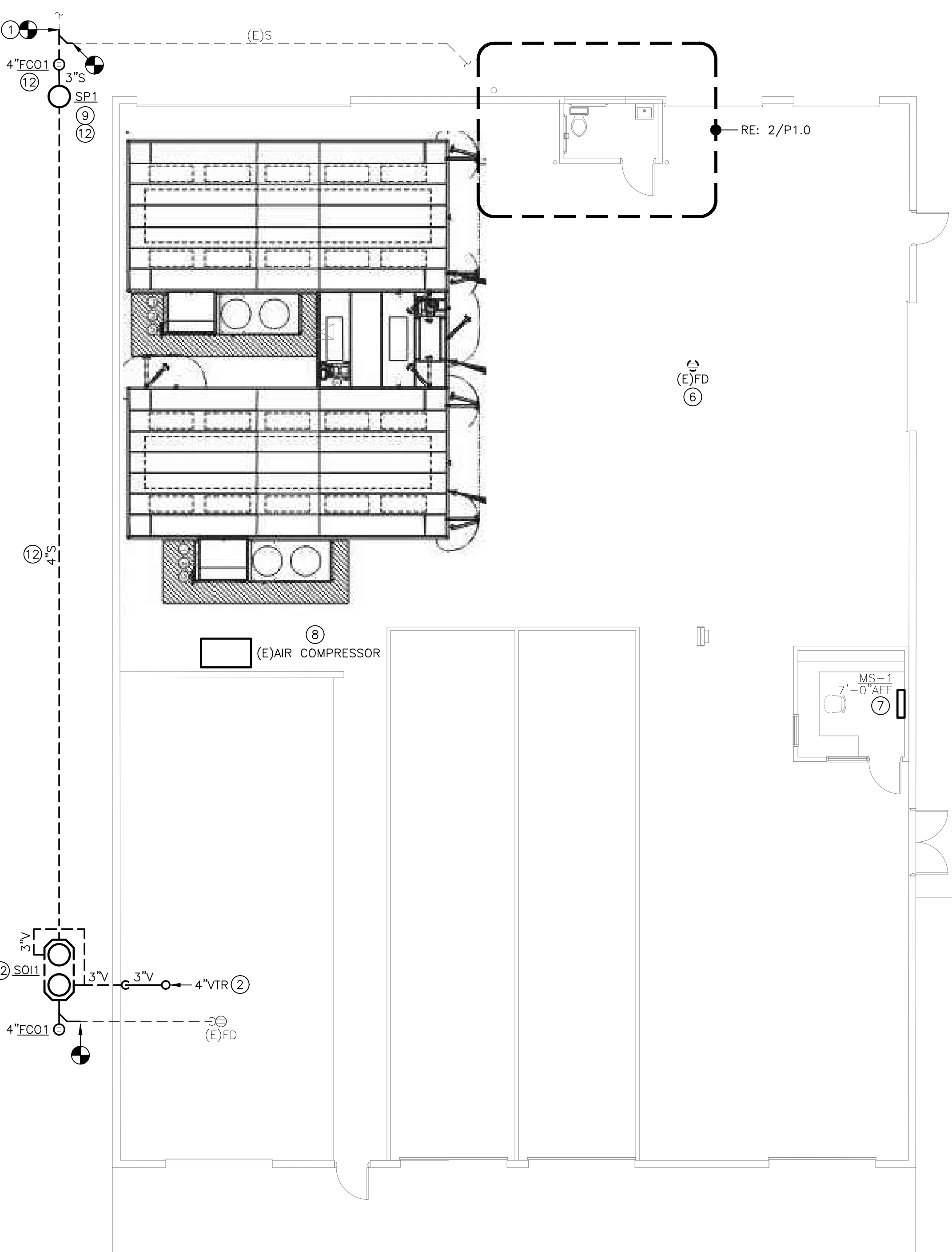
- THERMOSTATIC MIXING VALVE: SOLID BRASS BODY, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 2.2 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.5 GPM. MAXIMUM TEMPERATURE STOP SET FOR 110 DEGREES. MOUNT BELOW THE PLUMBING FIXTURE WHERE INDICATED ON PLANS.

WC1

- FLOOR-MOUNTED WATER CLOSET (ADA ACCESSIBLE): TANK TYPE WHITE VITREOUS CHINA FIXTURE WITH ELONGATED BOWL, 1.6 GALLON PER FLUSH, SIPHON FLUSH ACTION, AND CLOSE-COUPLED TANK WITH TRIP LEVER ON THE WIDE SIDE OF THE STALL.
- TRIM: WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY-DUTY, SEAT-LESS-COVER WITH SELF-SUSTAINING HINGES AND STAINLESS STEEL BOLTS; QUARTER-TURN BALL TYPE ANGLE STOP VALVE WITH RISER AND CHROME-PLATED ESCUTCHEON.

WH1

- WATER HEATER: A.O. SMITH MODEL # DEL-10 OR EQUAL, ELECTRIC, 10 GALLON, 1.5 kW INPUT, 8 GALLON PER HOUR RECOVERY AT 80°F TEMPERATURE RISE AND 120°F OPERATING TEMPERATURE. PROVIDE ALL WATER CONNECTIONS, VALVES, AND SPECIALS PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- ELECTRICAL REQUIREMENTS: 120V/1Ø, 13 FLA.



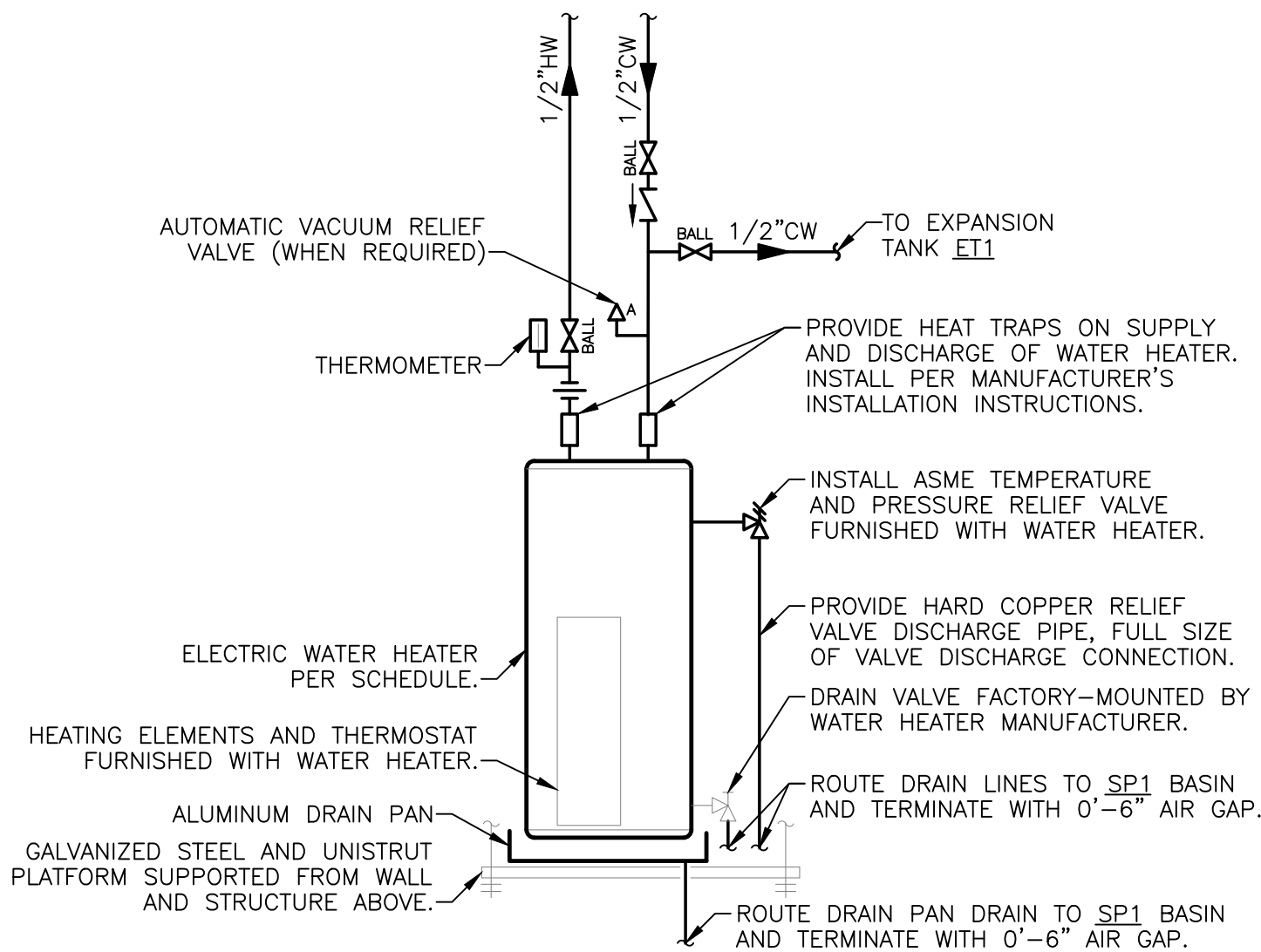
1 PLUMBING PLAN
SCALE: 1/8" = 1'-0"

FIXTURE CONNECTION SCHEDULE					
FIXTURE	WASTE	VENT	COLD	HOT	NOTES
LAVATORY - PUBLIC	2"	1-1/2"	1/2"	1/2"	TMV
WATER CLOSET (TANK TYPE)	4"	2"	1/2"	---	---

NOTES:
TMV: POINT OF USE TYPE THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070.
VB: ATMOSPHERIC TYPE VACUUM BREAKER CONFORMING TO ASSE 1020.

OIL SEPARATOR CALCULATIONS	
SERVICE AREA	1000 SQ. FT.
OIL SEPARATOR SIZING	
6.0 CU. FT. FOR FIRST 100 SQ. FT. OF DRAINAGE AREA	6 CU. FT.
1.0 CU. FT. FOR EACH ADDITIONAL 100 SQ. FT. OF DRAINAGE AREA	9 CU. FT.
CU. FT. REQUIREMENT	15 CU. FT.
GAL. REQUIREMENT	113 GAL.

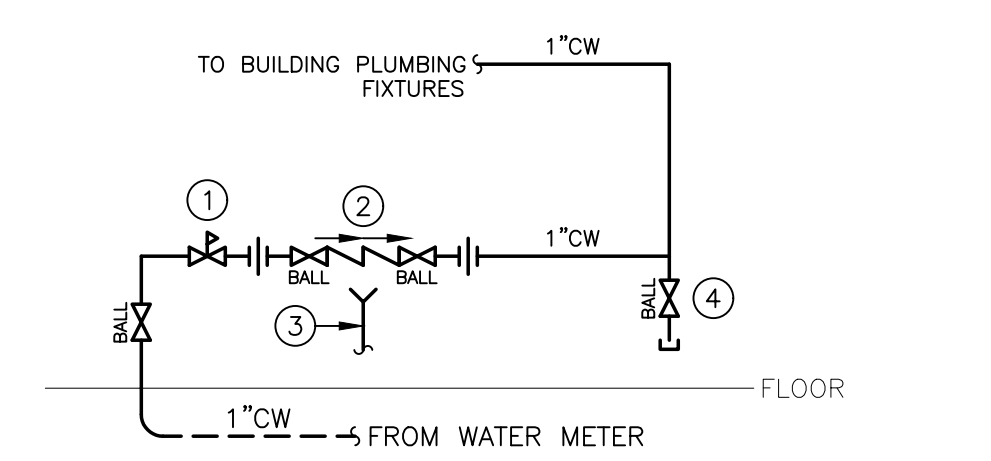
Sizing methodology complies with UPC section 1017.2 and IPC section 1003.4.2.2.



NOTES:

- STRUCTURE AND PLATFORM SHALL BE DESIGNED TO HOLD THE MAXIMUM WEIGHT OF THE WATER HEATER. CONFIRM CAPACITY OF SHELF WITH MANUFACTURER PRIOR TO INSTALLATION.

4 WATER HEATER DETAIL
SCALE: NTS



DETAIL 3/P1.0 NOTES:

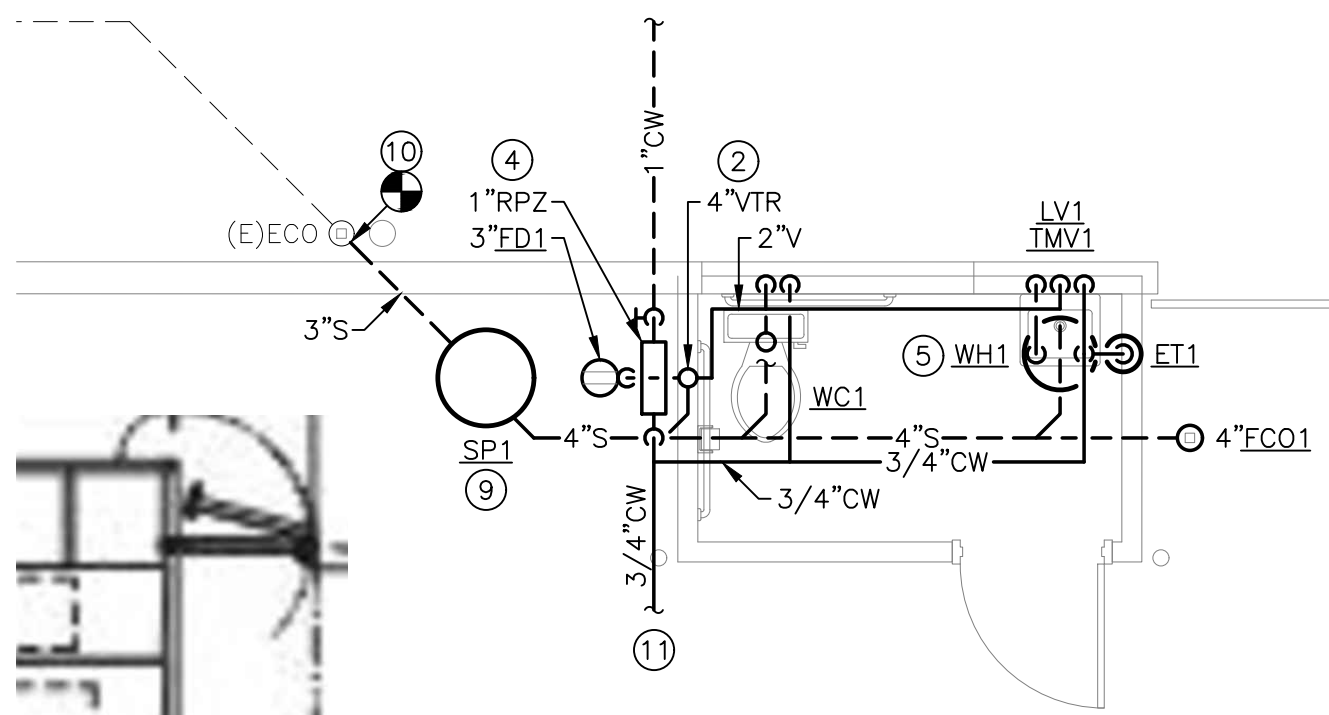
- PROVIDE PRESSURE REDUCING VALVE (PRV) WHEN UTILITY PRESSURE EXCEEDS 80 PSIG.
- PROVIDE LINE SIZE USC-APPROVED REDUCED PRESSURE BACKFLOW PREVENTER.
- PROVIDE FUNNEL FOR RPZ DISCHARGE AND ROUTE TO FLOOR DRAIN. SIZE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE 3/4" DRAIN VALVE WITH THREADED CAP AT BASE OF RISER.

3 WATER SERVICE ENTRANCE DETAIL
SCALE: NTS

PLUMBING PLAN NOTES:

- CONNECT TO MINIMUM 4" EXISTING SANITARY. FIELD VERIFY EXACT LOCATION, SIZE, FLOW DIRECTION, AND INVERT ELEVATION AT CONNECTION TO EXISTING.
- ROUTE 4"V UP THROUGH ROOF ("VTR"). INSTALL AT A MINIMUM OF 10'-0" FROM ALL AIR INTAKES AND BUILDING OPENINGS.
- INSTALL SAND/OIL INTERCEPTOR BELOW GRADE. PROVIDE ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER, WHICH MAY INCLUDE SAMPLING PORT, MANHOLE RISER EXTENSIONS, ETC).
- PROVIDE NEW 1" DOMESTIC WATER SERVICE ENTRANCE. REFER TO DETAIL 3/P1.0 FOR MORE INFORMATION.
- INSTALL WATER HEATER ABOVE CEILING. PROVIDE PIPING CONNECTIONS, VALVES, AND SPECIALS PER DETAIL 4/P1.0 AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- REMOVE EXISTING FLOOR DRAIN. CAP ITS ASSOCIATED BRANCH PIPING AT ACTIVE MAIN.
- PROVIDE CONDENSATE DRAIN WITH P-TRAP, FULL SIZE OF CONNECTION AT WALL-MOUNTED MINI-SPLIT EVAPORATOR COIL. ROUTE CONDENSATE PIPING CONCEALED IN WALL CAVITY, AND DISCHARGE OUT WALL AT 1'-6" AFG TO SPLASH BLOCK ON GRADE.
- INSTALL SAVED AIR COMPRESSOR AT NEW LOCATION. PROVIDE NEW COMPRESSED AIR PIPING FROM CONNECTION AT COMPRESSOR TO EXISTING MAIN, OF SAME SIZE AS EXISTING MAIN. FIELD VERIFY SIZE AND LOCATION OF CONNECTION AT EXISTING. COMPRESSED AIR PIPING SHALL BE GALVANIZED STEEL PIPE WITH MALLEABLE IRON SCREWED FITTINGS. INSTALL VALVES, FILTERS, REGULATORS, AND OTHER FITTINGS FURNISHED BY THE OWNER AS A PART OF THE COMPRESSED AIR SYSTEM. AT THE COMPLETION OF THE WORK, LEAVE A COMPLETE AND OPERATING SYSTEM, CONFORMING TO THE LATEST EDITION OF THE OSHA CODE.
- COORDINATE FINAL LOCATION OF SEWAGE PUMP WITH EXISTING CONDITIONS AND OTHER TRADES. INSTALL PER MANUFACTURER'S REQUIREMENTS.
- CONNECT NEW 3" SANITARY FROM SEWAGE PUMP DISCHARGE INTO EXISTING CLEANOUT. FIELD VERIFY EXACT LOCATION, SIZE, FLOW DIRECTION, AND INVERT ELEVATION AT CONNECTION TO EXISTING.
- CONNECT TO EXISTING COLD WATER MAIN AND/OR EXISTING FIXTURES. FIELD VERIFY LOCATION AND SIZES AT CONNECTIONS TO EXISTING.
- COORDINATE NEW INSTALLATION WITH EXISTING WATER UTILITY AND GAS UTILITY LINES ALONG WEST SIDE OF BUILDING.

2 ENLARGED PLUMBING PLAN
NEW RESTROOM
SCALE: 1/4" = 1'-0"



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BUILDING B INTERIOR MODIFICATIONS:

CRASH CHAMPIONS

UNIT B 451 SE OLDHAM PARKWAY

LEE'S SUMMIT, MISSOURI

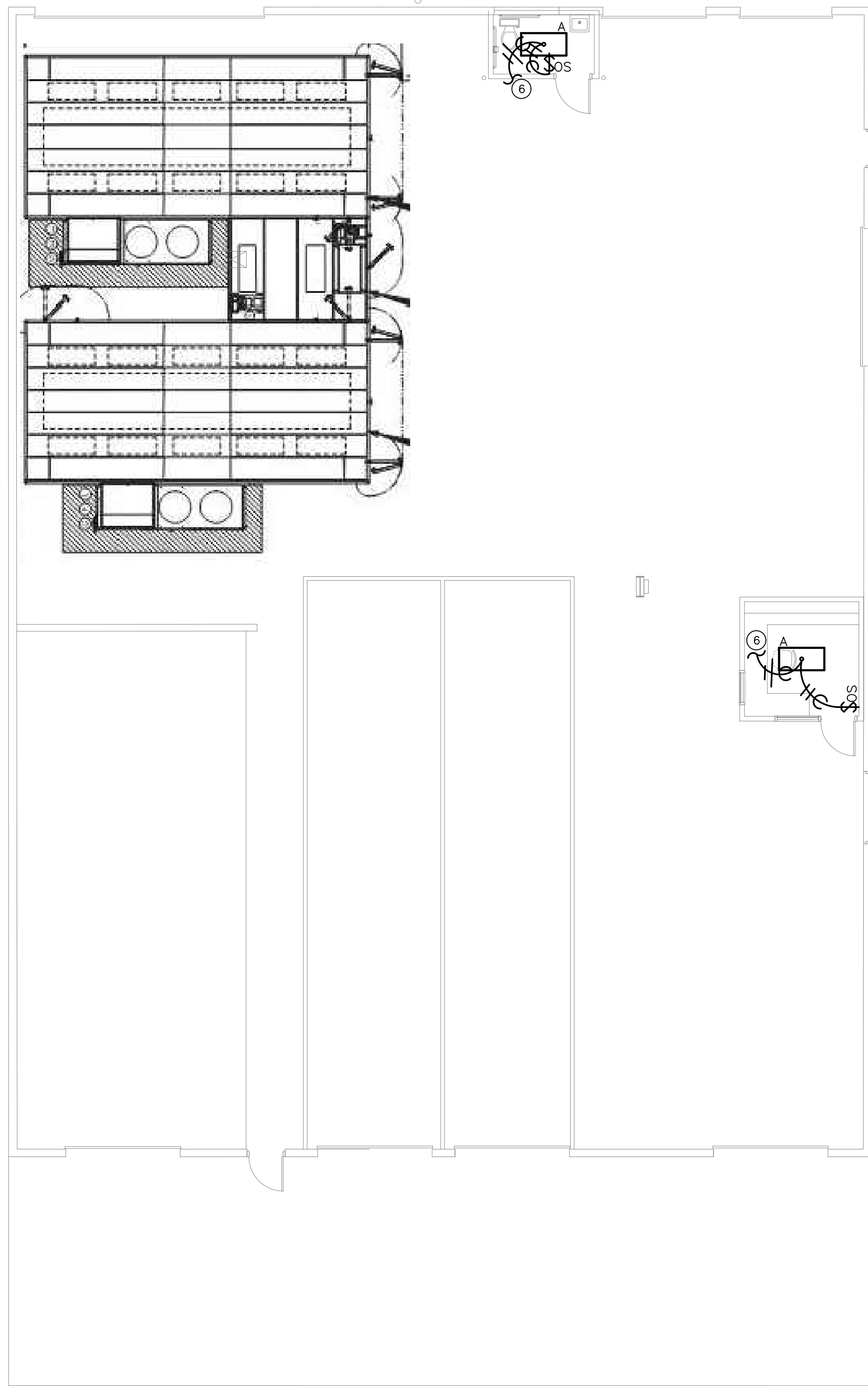
NO.	DESCRIPTION	DATE
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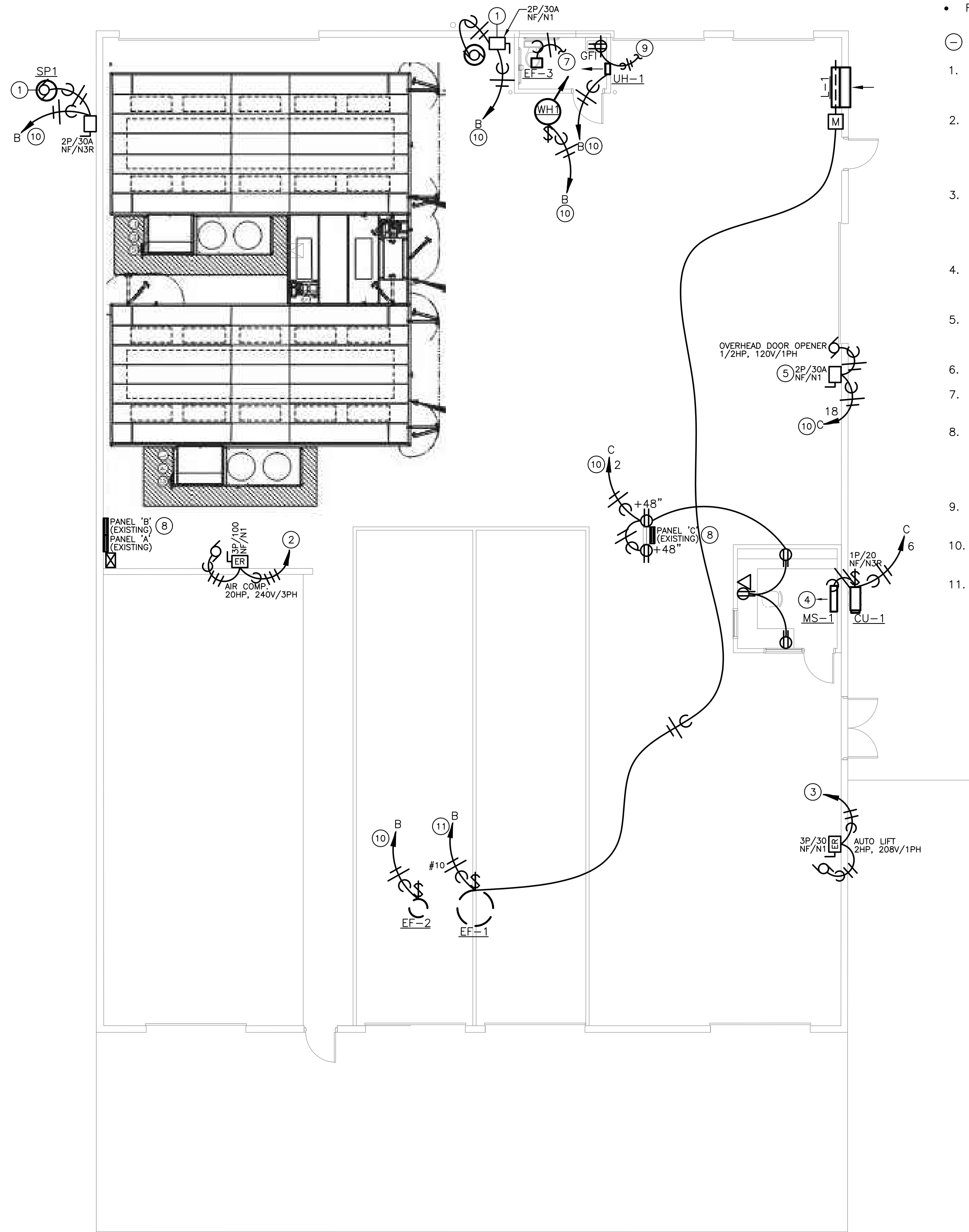
P1.0

PLUMBING PLANS

May 10, 2023 - 2:24pm - USER ScottGroshans
C:\Users\ScottGroshans\OneDrive\Documents\ACTIVE PROJECTS\202300039 Crash Champions Lees Summit Bldg B - Rose\Bose-CAD\ELEC.dwg
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2 ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"



1 ELECTRICAL POWER PLAN
SCALE: 1/8" = 1'-0"

ELECTRICAL GENERAL NOTES:

- REFERENCE SHEET E2.0 FOR ELECTRICAL GENERAL NOTES.

ELECTRICAL PLAN NOTES:

- DISCONNECT SWITCH AND FLEXIBLE CONNECTION TO SEWAGE EJECTOR PUMP, 120V. USE LIQUID-TITE FLEXIBLE METAL CONDUIT FOR OUTDOOR LOCATION.
- RELOCATE DISCONNECT, MOTOR CONNECTION AND EXTEND FEED TO NEW AIR COMPRESSOR LOCATION. VERIFY EXACT LOCATION WITH OWNER. CONTRACTOR SHALL VISIT SITE TO CONFIRM EXISTING LOCATION AND CONDUIT AND CONDUCTOR SIZES.
- RELOCATE DISCONNECT, MOTOR CONNECTION AND EXTEND FEED TO NEW AUTO LIFT LOCATION. VERIFY EXACT LOCATION WITH OWNER. CONTRACTOR SHALL VISIT SITE TO CONFIRM EXISTING LOCATION AND CONDUIT AND CONDUCTOR SIZES.
- NEW MINI-SPLIT HVAC UNIT IN OFFICE. REFER TO MECHANICAL FLOORPLANS AND SCHEDULES FOR LOCATIONS AND CONNECTION DETAILS.
- PROVIDE MOTOR POWER CONNECTION TO OVERHEAD DOOR OPERATOR. COORDINATE CONTROL PUSHBUTTON STATION WITH OPERATOR SUPPLIER.
- CONNECT LIGHTING TO RECEPTACLE CIRCUIT IN AREA.
- CONNECT EXHAUST FAN TO SWITCHED LIGHTING CIRCUIT IN ROOM.
- RECONFIGURE EXISTING PANEL TO ACCEPT ADDITIONAL LOADS. USE OR REPLACE UN-USED BREAKERS AS NECESSARY. BREAKERS THAT BECAME SPARE AFTER DEMOLITION OF SHED ON EAST SIDE MAY BE USED FOR NEW LOADS.
- CONNECT TO ADJACENT NEARBY 120V RECEPTACLE CIRCUIT IN NORTHEAST CORNER OF BUILDING.
- TERMINATE ON SPARE 20A/1P CIRCUIT BREAKER AVAILABLE IN PANEL INDICATED.
- TERMINATE ON NEW 25A/1P CIRCUIT BREAKER AVAILABLE IN PANEL INDICATED.

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ELECTRICAL POWER AND
LIGHTING PLANS

May 10, 2023 -- 2:24pm -- USER: ScottGroshans
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LINETYPES LEGEND:

- NEW
- EXISTING OR BY OTHERS
- - - - - DEMOLITION

LIGHTING LEGEND:

- CEILING MOUNTED LIGHT FIXTURE, 2'x2' OR 2'x4'
- CEILING MOUNTED LIGHT FIXTURE, 2'x2' OR 2'x4' (NIGHT LIGHT OR EMERGENCY CIRCUIT)
- STRIP LIGHT FIXTURE. REFER TO FIXTURE SCHEDULE FOR LENGTH.
- WALL-MOUNT SCONCE OR WALL BRACKET LIGHT FIXTURE.
- RECESSED WALL WASH CAN LIGHT FIXTURE.
- RECESSED, SURFACE, OR STEM HUNG LIGHT FIXTURE.
- SINGLE FACE EXIT LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT FACE.
- DOUBLE FACE EXIT LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT FACE.
- COMBINATION SINGLE FACE EXIT/EMERGENCY LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT FACE.
- NOTE: REFER TO LIGHT FIXTURE SCHEDULE AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS.

POWER LEGEND:

- INDICATES ABOVE COUNTER (TYP)
- DUPLEX RECEPTACLE MOUNTED AT +18" AFF TO CENTER OF RECEPTACLE (UNO). ABOVE COUNTER RECEPTACLES SHALL BE +48" AFF (UNO).
- DUPLEX ISOLATED GROUND RECEPTACLE MOUNTED AT +18" AFF TO CENTER OF RECEPTACLE (UNO). ABOVE COUNTER RECEPTACLES SHALL BE +48" AFF (UNO).
- DUPLEX RECEPTACLE ON STAND-BY GENERATOR POWER, MOUNTED AT +18" AFF TO CENTER OF RECEPTACLE (UNO). RECEPTACLES SHOWN ABOVE COUNTER SHALL BE +48" AFF (UNO).
- FLOOR-MOUNTED DUPLEX OR FOURPLEX RECEPTACLE MOUNTED IN PVC FLOORBOX, OR POKE-THRU
- SPECIAL RECEPTACLE, NUMBER REFERS TO "NEMA" CONFIGURATION. MOUNT AT +18" AFF TO CENTER OF RECEPTACLE (UNO).
- FOURPLEX RECEPTACLE MOUNTED AT +18" AFF TO CENTER OF RECEPTACLE (UNO). RECEPTACLES SHOWN TO BE ABOVE COUNTER SHALL BE +48" AFF (UNO)
- FLUSH MOUNT COMBINATION POWER AND VOICE/DATA FLOORBOX.
- SINGLE POLE WALL MOUNT TOGGLE SWITCH. MOUNT AT +48" AFF TO CENTER OF SWITCH.
- WALL MOUNTED OCCUPANCY SENSOR SWITCH. MOUNT AT +48" AFF TO CENTER OF SWITCH.
- WALL MOUNTED OCCUPANCY SENSOR SWITCH WITH 0-10V DIMMING CONTROL. MOUNT AT +48" AFF TO CENTER OF SWITCH.
- WALL MOUNTED LOW VOLTAGE SWITCH WITH 0-10V DIMMING CONTROL. MOUNT AT +48" AFF TO CENTER OF SWITCH.
- CEILING MOUNTED OCCUPANCY OR DAYLIGHT SENSORS.
- ROOM CONTROLLER/POWER PACK FOR LIGHT FIXTURE CONTROL. 'X' INDICATES ZONES, 'D' INDICATES DIMMING. REFER TO LIGHTING CONTROLS SCHEDULE.
- VOICE OPENING. PROVIDE 3/4" EMT CONDUIT STUB TO ABOVE CEILING FOR FUTURE CABLING. DEVICES SHOWN TO BE COUNTER SHALL BE +48" AFF (UNO).
- DATA OPENING. PROVIDE 3/4" EMT CONDUIT STUB TO ABOVE CEILING FOR FUTURE CABLING. DEVICES SHOWN TO BE COUNTER SHALL BE +48" AFF (UNO).
- COMBO VOICE/DATA OPENING. PROVIDE 3/4" EMT CONDUIT STUB TO ABOVE CEILING FOR FUTURE CABLING. DEVICES SHOWN TO BE COUNTER SHALL BE +48" AFF (UNO).
- FLUSH FLOOR MOUNT VOICE/DATA OUTLET MOUNTED IN PVC FLOORBOX.
- DISCONNECT SWITCH, STARTER, & COMBINATION STARTER/DISCONNECT SWITCH. SIZE AS INDICATED ON DRAWINGS.
- ELECTRICAL PANEL BOARD, FLUSH OR SURFACE MOUNT
- JUNCTION BOX
- NOTE: LINE THROUGH DEVICE INDICATES TO BE MOUNTED ABOVE COUNTERTOP OR CABINET. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS IF NOT INDICATED ON POWER PLAN.
- REFER TO LIGHTING CONTROL DEVICE SCHEDULE AND ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.

WIRING LEGEND:

- HOMERUN TO PANELBOARD WITH NUMBER AND SIZE OF CONDUCTORS INDICATED ON PLANS. WHEN NO WIRING TICK MARKS ARE SHOWN, CONTRACTOR SHALL ASSUME MINIMUM OF (3) #12 CONDUCTORS.
- GROUNDED CONDUCTOR.
- CONDUIT OR CIRCUIT BREAK/CONTINUATION.
- CONDUIT WITH ENDCAP FOR FUTURE USE.
- GROUNDING SOURCE.

ELECTRICAL GENERAL NOTES:

- DRAWINGS ARE SCHEMATIC IN NATURE AND BASED ON PRELIMINARY SITE OBSERVATION AND ORIGINAL DESIGN DRAWINGS (WHEN AVAILABLE). PRIOR TO BID, CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE AND BECOME FULLY AWARE OF ALL FIELD CONDITIONS, CURRENT SYSTEM OPERATION AS WELL AS COORDINATION REQUIREMENTS. COORDINATE ALL MECHANICAL WORK WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS AND OTHER TRADES PRIOR TO BID OR START OF WORK.
- ELECTRICAL WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. REFER TO ARCHITECTURAL CODE PLANS FOR SPECIFIC CODE REFERENCES.
- COORDINATE ELECTRICAL WORK WITH ALL OTHER PROJECT TRADES (E.G. ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, ETC.).
- COORDINATE EXACT LOCATIONS OF ALL LIGHT FIXTURES AND ELECTRICAL DEVICES WITH ARCHITECTURAL DRAWING AND OTHER TRADES PRIOR TO ROUGH-IN. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRE TO PROPERLY INSTALL ALL SYSTEMS.
- INSTALL PULL STRING IN ALL EMPTY CONDUIT/RACEWAY. TERMINATE CONDUIT STUB-UP WITH A NYLON BUSHING.
- COLOR FOR RECEPTACLES, SWITCHES, NETWORK DEVICES AND COVER PLATES SHALL MATCH. COLOR SHALL MATCH AND BE SELECTED AS BRIGHT WHITE UNLESS NOTED OTHERWISE. CONFIRM EXACT COLOR WITH ARCHITECT PRIOR TO ORDER.
- ELECTRICAL CONTRACTOR SHALL INSPECT ALL ELECTRICAL EQUIPMENT TO REMAIN. REPORT ANY DEFICIENCIES TO OWNER PRIOR TO START OF WORK.

- ALL CONDUCTORS SHALL BE INSTALLED IN METALLIC (EMT) CONDUIT, AND INSTALLED IN A NEAT AND WORKMANLIKE MANNER PER THE RECOGNIZED EDITION OF THE NATIONAL ELECTRIC CODE (NEC). CONDUIT SHALL BE 1/2" MINIMUM USING STEEL SET-SCREW FITTINGS. HOME RUNS SHALL CONFORM TO NEC REQUIREMENTS FOR CONDUIT FILL, AND SHALL CONTAIN NO MORE THAN 6 CURRENT CARRYING CONDUCTORS. IF NEUTRALS ARE SHARED FOR ANY REASON, CIRCUIT BREAKER TIE HANDLES SHALL BE INSTALLED AT THE PANEL.
- ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE NOTED. CONDUCTOR INSULATIONS SHALL BE RATED FOR THEIR USE. CONDUCTORS EXPOSED TO WATER SHALL HAVE INSULATION RATED FOR WET CONDITIONS. INSULATION TYPES THWN OR XHHW. INTERIOR BUILDING WIRING SHALL BE THHN.
- AT CONTRACTOR'S OPTION, MC CABLE CAN BE USED IN FURRED WALLS, ABOVE CEILINGS AND IN OTHER CONCEALED SPACES WHERE ALLOWED BY NEC.
- HOME RUNS SHALL BE ROUTED IN EMT CONDUIT ALL THE WAY BACK TO THE PANEL. EXPOSED POWER WIRING SHALL BE IN EMT. ALL INSTALLATIONS SHALL BE PER NEC REQUIREMENTS.
- LIGHT FIXTURE WHIPS (MC OR 1/2" FLEX) SHALL USE #12 CONDUCTORS. FIXTURE WHIPS SHALL BE SUPPORTED PER NEC REQUIREMENTS AND BE NO LONGER THAN 8'.
- CONTRACTOR SHALL VERIFY ALL ROUGH-IN LOCATIONS AND QUANTITIES FOR GENERAL USE POWER AND DATA WITH OWNER AND/OR ARCHITECT PRIOR TO INSTALLATION.
- ALL CONDUCTORS SHALL BE COPPER WITH #12 AWG MINIMUM, (UNLESS NOTED OTHERWISE).
- CONTRACTOR SHALL LABEL ALL RECEPTACLES, BOXES, PANELBOARDS, ETC. WITH PANEL, CIRCUIT NUMBER, ETC. WITH PANEL AND CIRCUIT NUMBERS. RECEPTACLE COVERPLATES SHALL BE LABELED USING PRINTED LABEL WITH 1/2" HIGH LETTERS. COORDINATE WITH OWNER FOR FINAL PANEL AND EQUIPMENT DESIGNATIONS AND LABELING REQUIREMENTS.
- PROVIDE TAMPER RESISTANT RECEPTACLES WHERE REQUIRED BY CODE. WIRING DEVICES AT PATIENT CARE HEADWALLS SHALL BE HOSPITAL GRADE.
- FOR GFI RECEPTACLES ON THE SAME CIRCUIT, THE FIRST DEVICE IN THE CIRCUIT MY PROVIDE GFI PROTECTION FOR THE DOWNSTREAM DEVICES.
- ALL DEVICE COVERS SHALL BE BRUSHED METAL (UNLESS NOTED OTHERWISE). CONFIRM DEVICE COLORS AND TYPES WITH ARCHITECT. COORDINATE ALL DEVICE LOCATIONS WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

ABBREVIATIONS LEGEND:

- AF F ABOVE FINISHED FLOOR
- AF G ABOVE FINISHED GRADE
- ED EXISTING TO BE DEMOLISHED
- EM EMERGENCY
- ER EXISTING TO BE RELOCATED
- ETR EXISTING TO REMAIN
- EW C ELECTRIC WATER COOLER
- GFC I GROUND FAULT CURRENT INTERRUPTER
- N L NIGHT LIGHT
- TR TAMPER RESISTANT
- UN O UNLESS NOTED OTHERWISE
- US B RECEPTACLE TO HAVE (2) USB CHARGING PORTS
- WP/GFI WEATHER PROTECTED "IN-USE" COVER / GFCI

ELECTRICAL GENERAL DEMOLITION NOTES:

- REFERENCE ARCHITECTURAL DRAWINGS FOR FULL EXTENT OF DEMOLITION WORK AND PHASING. NOTIFY ARCHITECT, ENGINEER, AND/OR OWNER, AS APPLICABLE, OF ANY CONFLICTS OR DISCREPANCIES BETWEEN DRAWINGS AND JOBSITE CONDITIONS PRIOR TO SUBMITTING BID.
- COORDINATE DEMOLITION AND REMOVAL OF EXISTING EQUIPMENT AND LIGHTING SYSTEMS WITH ARCHITECTURAL PHASING DRAWINGS AND OWNER TO ALLOW NECESSARY SYSTEMS TO REMAIN OPERATIONAL DURING CONSTRUCTION.
- UNLESS NOTED OTHERWISE, DISPOSE OF ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES, AND DEVICES SHOWN TO BE REMOVED. COORDINATE WITH THE OWNER THE ITEMS TO BE SALVAGED, AND THE LOCATION FOR STORAGE. AVOID DAMAGING SALVAGED ITEMS DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.
- WHERE ALTERATION OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, RACEWAYS, OR WIRING DEVICES AFFECTS EXISTING SURFACES/FINISHES: REPAIR/PAINT AFFECTED SURFACE TO MATCH EXISTING ADJACENT SURFACE IN ACCORDANCE WITH OWNER REQUIREMENTS. MAINTAIN FIRE RATING OF ALL FLOORS, WALLS, AND CEILINGS THAT ARE RATED.
- WHERE DEMOLITION WORK INTERRUPTS ELECTRICAL CONTINUITY OF CIRCUITS THAT ARE TO REMAIN IN USE: PROVIDE NECESSARY DEVICES AND RELATED CIRCUITRY TO MAINTAIN ELECTRICAL CONTINUITY IN ACCORDANCE WITH OWNER REQUIREMENTS. RE-CIRCUIT REUSED ELECTRICAL EQUIPMENT, LIGHT FIXTURES, AND WIRING DEVICES PREVIOUSLY POWERED FROM DEMOLISHED EQUIPMENT TO NEW OR TEMPORARY EQUIPMENT AS NEEDED.
- COORDINATE DISCONNECTION OF POWER TO EQUIPMENT BEING DEMOLISHED / REMOVED / RELOCATED WITH OTHER TRADES PRIOR TO START OF WORK. REMOVE ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES, RACEWAYS, WIRING DEVICES, AND RELATED CIRCUITRY NOT BEING REUSED IN ALL ACCESSIBLE AREAS INCLUDING FLOORS, WALLS, AND CEILINGS THAT ARE TO BE REMOVED.
- ELECTRICAL EQUIPMENT, RACEWAYS, AND RELATED CIRCUITRY ABANDONED IN PLACE SHALL BE PERMANENTLY DISCONNECTED FROM ALL POWER SOURCES, INSULATED FROM CONTACT WITH OTHER LIVE ELECTRICAL WIRING/DEVICES, AND IDENTIFIED AT TERMINATIONS AS NO LONGER BEING IN SERVICE. CABLES/WIRING NOT BEING REUSED SHALL BE REMOVED UNLESS IDENTIFIED FOR FUTURE USE. CARE SHOULD BE TAKEN DURING THE REMOVAL PROCESS TO PROTECT THE EXISTING REUSED CABLES/WIRING FROM DAMAGE.

LIGHT FIXTURE SCHEDULE										
TYPE	MANUFACTURER	MODEL	LIGHT SOURCE	WATTS	VOLTAGE	COLOR TEMP	DIMMABLE	FINISH	DESCRIPTION	NOTES
A	LITHONIA	CPX-2X4-AL08-SWW7-M2	INTEGRAL LED	130	UNV	ADJUSTABLE	0-10V	WHITE	LED 2'X4' FLAT PANEL TROFFER WITH ADJUSTIBLE LUMEN AND COLOR OUTPUT. SET FOR MEDIUM LUMEN OUTPUT AND 4000K UNLESS INDICATED OTHERWISE BY OWNER OR ARCHITECT.	1-4
NOTES: 1. COORDINATE ALL LIGHT FIXTURE SELECTIONS AND/OR SUBSTITUTIONS WITH ARCHITECT, OWNER AND/OR ENGINEER PRIOR TO ORDER. 2. PROVIDE LIGHTING CONTROLS THAT ARE COMPATIBLE WITH FIXTURES PROVIDED. 3. COORDINATE WITH ARCHITECT, OWNER AND/OR ENGINEER FOR DIMMING REQUIREMENTS PRIOR TO INSTALLATION. 4. PROVIDE ALL COMPONENTS AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION.										

LIGHTING CONTROL DEVICE SCHEDULE									
TAG	MANUFACTURER AND MODEL SERIES		COVERAGE AREA (WxD OR RADIUS Ø)	VOLTAGE	MODE SETTINGS	DIMMING	TIME DELAY	DEVICE FINISH COLOR	SENSOR NOTES
WALL SWITCH OCCUPANCY SENSORS									
S OS	WATTSTOPPER PW-301	SINGLE-RELAY PASSIVE INFRARED OCCUPANCY SENSOR WALL SWITCH WITH MANUAL OVERRIDE BUTTON.		MAJOR 30' x 35' MINOR 15' x 20'	120/277V	MANUAL ON AUTO OFF	N/A	20 MIN	WHITE 1
GENERAL NOTES:									
A. SENSOR LAYOUT BASED ON WATTSTOPPER COVERAGE PATTERNS. ADJUST QUANTITIES AND LOCATIONS FOR ALTERNATE MANUFACTURERS LISTED BELOW PER MANUFACTURER SPECIFIC SPACING CRITERIA.									
B. nLIGHT, SENSOR SWITCH, COOPER-GREENGATE, CRESTRON, HUBBELL BUILDING AUTOMATION, AND LEVITON ARE CONSIDERED EQUIVALENT MANUFACTURES FOR SUBMISSION AS AN APPROVED MANUFACTURER, CONTINGENT ON LISTINGS APPROPRIATE FOR THE APPLICATION.									
C. PROVIDE ALL SENSORS BY THE SAME MANUFACTURER.									
D. PROVIDE WALL SWITCH AND CEILING SENSORS WITH AN ADJUSTABLE TIME DELAY RANGE OF 0-30 MIN, UNO.									
SENSOR NOTES:									
1. CONNECT NEUTRAL CONDUCTOR TO SENSOR.									



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