

PROJECT NO. 2035

DATE: 12.16.2021

DJP

DRAWN:

REVISIONS:

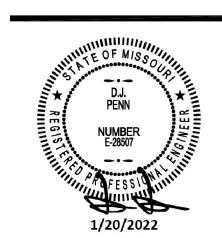
SITE PLAN

SHEET NO.

ARCHITECTURAL PLANS/ELEVATIONS FOR MOUNTING HEIGHTS AND

LOCATIONS.





KEWOOD TORAGE

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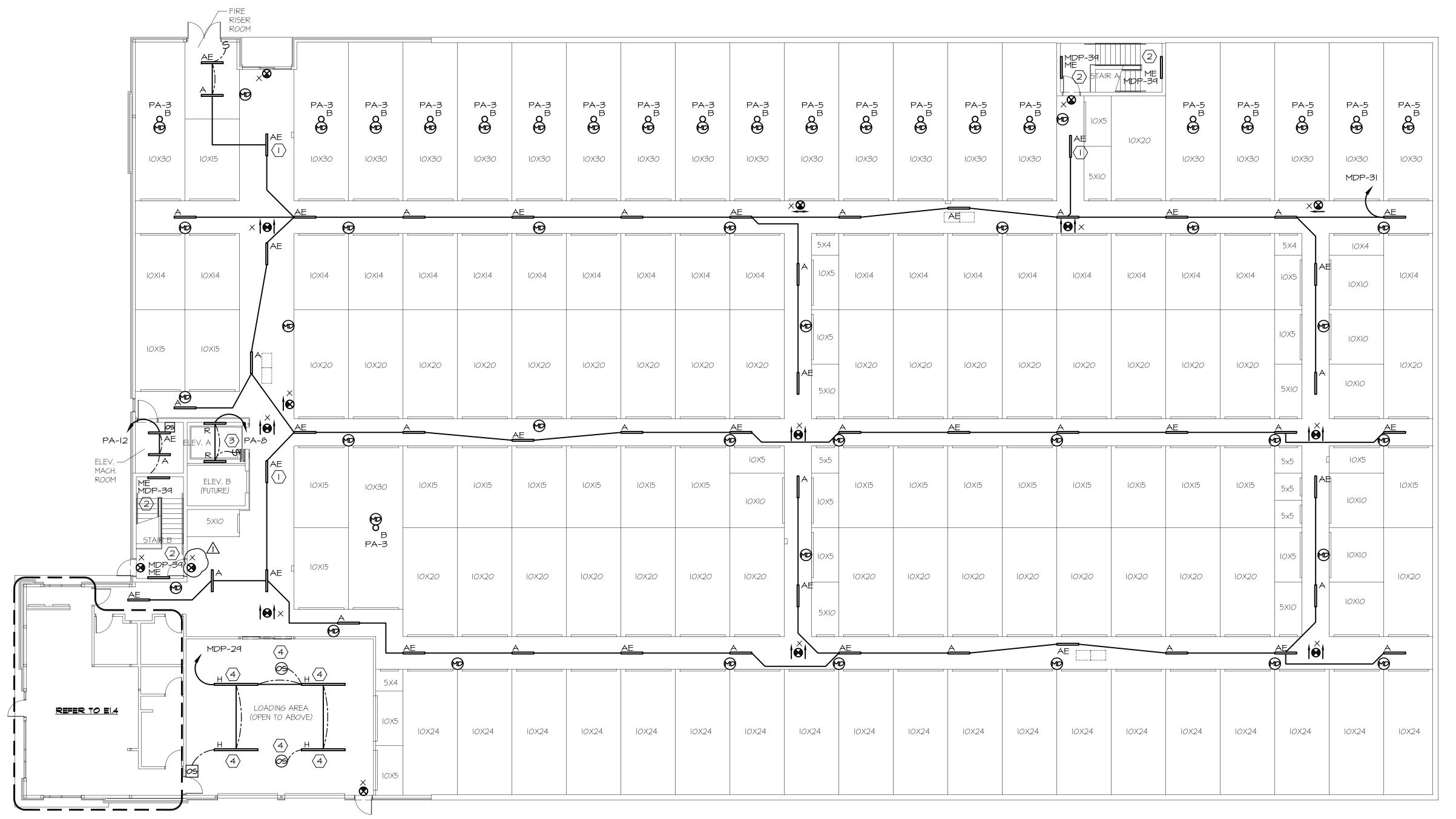
1ST FLOOR

DJP

LIGHTING

SHEET NO.

E1.1



COORDINATION NOTE:

THE GENERAL CONTRACTOR SUPERINTENDENT SHALL PAY CLOSE ATTENTION TO THE COORDINATION BETWEEN THE SPRINKLER CONTRACTOR & MECHANICAL CONTRACTOR.

- ALL SUB-CONTRACTORS ARE TO COORDINATE THEIR WORK WITH THE OTHER DISCIPLINES TO PROVIDE SPACE FOR THE LAYOUT OF EQUIPMENT, LIGHTS, DUCTWORK, SPRINKLERS, ETC.
- THE SPRINKLER CONTRACTOR & MECHANICAL CONTRACTOR SHALL COORDINATE CLOSELY.

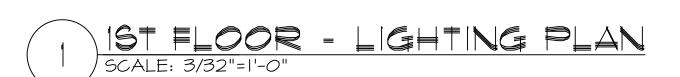
NOTE : MD

ALL HALLWAY LIGHTING SHALL BE ON MOTION

DETECTORS. COORDINATE ALL MOTION DETECTOR

OWNER PRIOR TO FINAL INSTALLATION.

LOCATIONS & LIGHTS TO BE ACTIVATED WITH



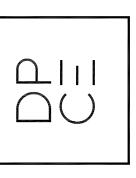
GENERAL LIGHTING NOTES :

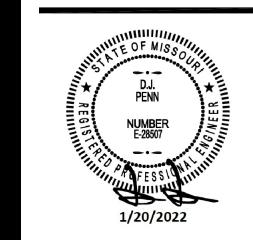
I. REFER TO SHEET "MEPI" FOR EXTERIOR LIGHTING.

- 2. ALL STORAGE UNIT LIGHTING "B" CONTROLLED WITH OCCUPANCY SENSORS.
- 3. ALL EXIT & EMERGENCY LIGHTS SHALL BE CONNECTED TO NEAREST GENERAL LIGHTING CIRCUIT AND REMAIN UN-SWITCHED.

KEYED LIGHTING NOTES :

- LIGHT FIXTURE TO REMAIN "ON" AT ALL TIMES.
- 2 LIGHT FIXTURE TO REMAIN "ON" AT ALL TIMES. MOUNT BOTTOM OF FIXTURE @ 8'-0" AFF.
- (3) LIGHT MOUNTED IN ELEVATOR PIT. LOCATE SWITCH @ ACCESS TO PIT. COORDINATE ON-SITE. ELEVATOR HOISTWAY LIGHTING SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE GFCI RECEPTACLE.
- 4 MOUNT ON STRUCTURE ABOVE. FIELD COORDINATE LOCATION.





AKEWOOD SHORAGE

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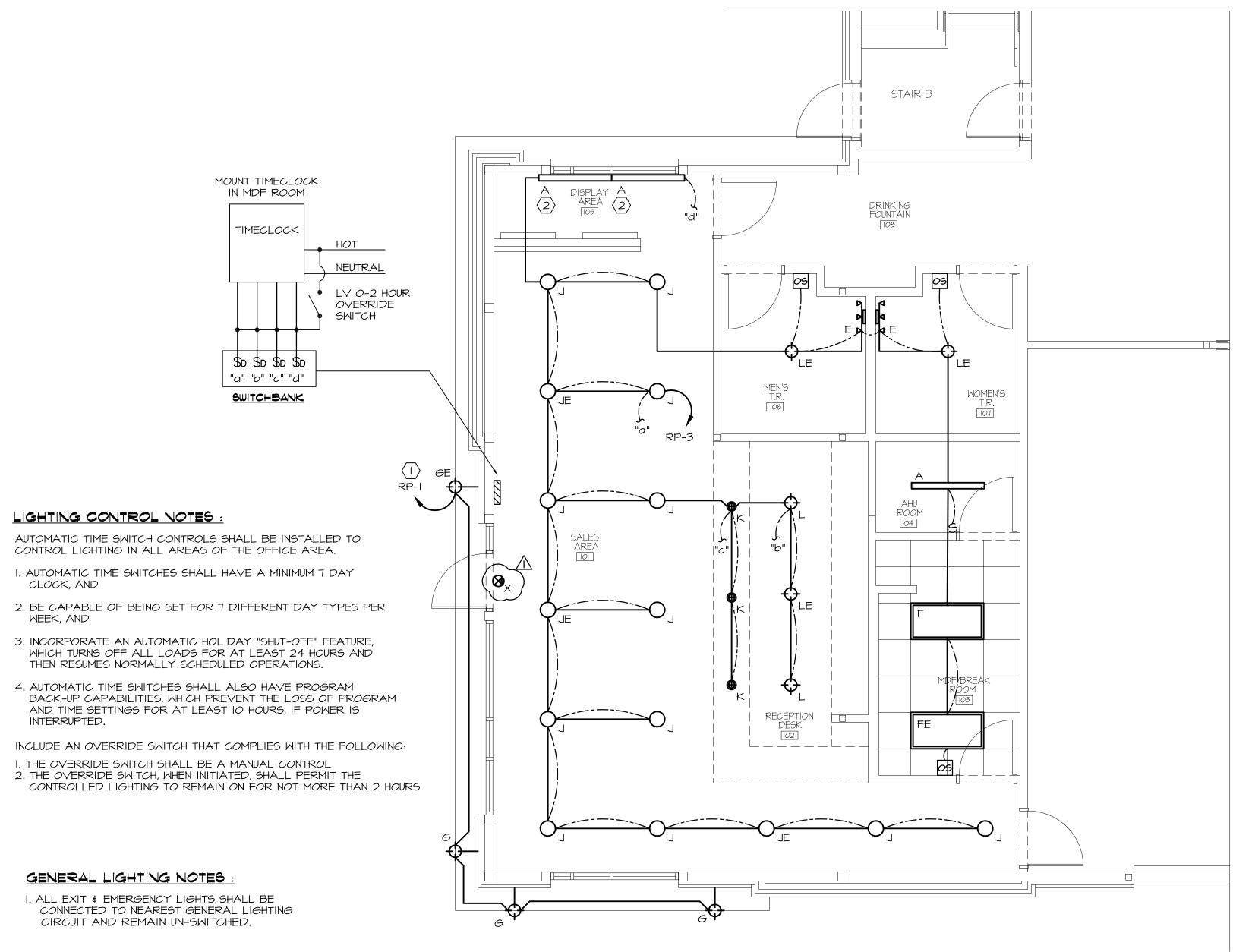
DRAWN:

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OFFICE LIGHTING

SHEET NO.

E1.4

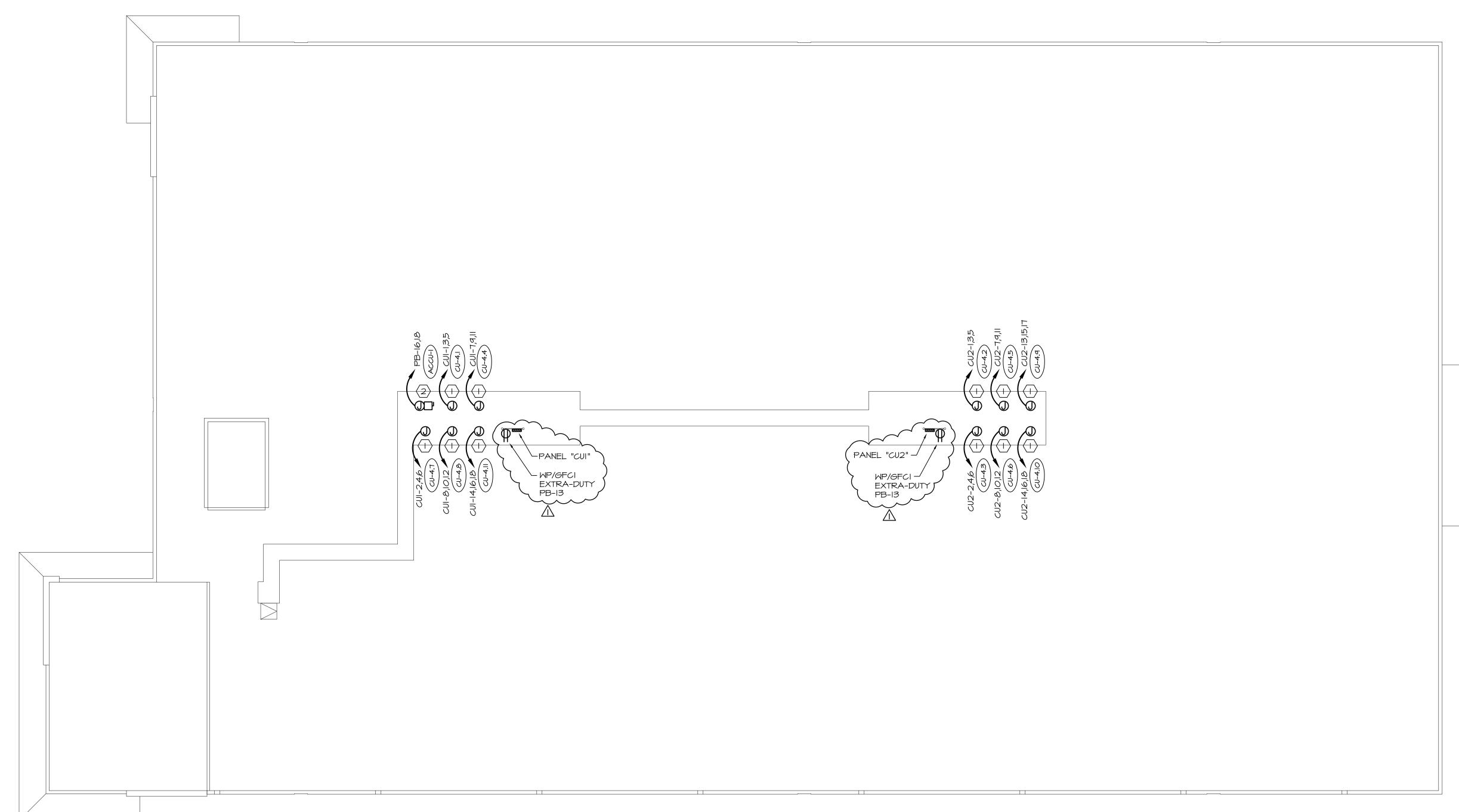


OFFICE LIGHTING PLAN

SCALE: 1/4"=1'-0"

KEYED LIGHTING NOTES :

- RUN CIRCUIT SWITCHLEG THRU PHOTOCELL MOUNTED ON ROOF, WITH TIMECLOCK OVERRIDE. COORDINATE EXTERIOR LIGHTING WITH ARCHITECTURAL PLANS/ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS.
- 2 LIGHT FIXTURE TO REMAIN "ON" AT ALL TIMES.
 MOUNT FIXTURES ABOVE WINDOWS, BELOW CEILING.
 COORDINATE WITH ARCHITECTURAL PLANS.



| ROOF = POWER PLAN | SCALE: 3/32"=1'-0"

POWER KEYED NOTES :

- J-BOX FOR CONNECTION TO CONDENSING UNIT.
 DISCONNECT MEANS IN PANELBOARD WITHIN 50 FEET.
- 2 J-BOX & 30A/2P/208V/FUSED 25A/N-3R DISCONNECT SWITCH FOR CONDENSING UNIT.

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LAKEWOOD STORAGE

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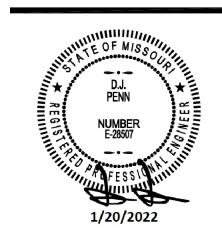
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REVISIONS:

ROOF POWER

SHEET NO.

E2.5



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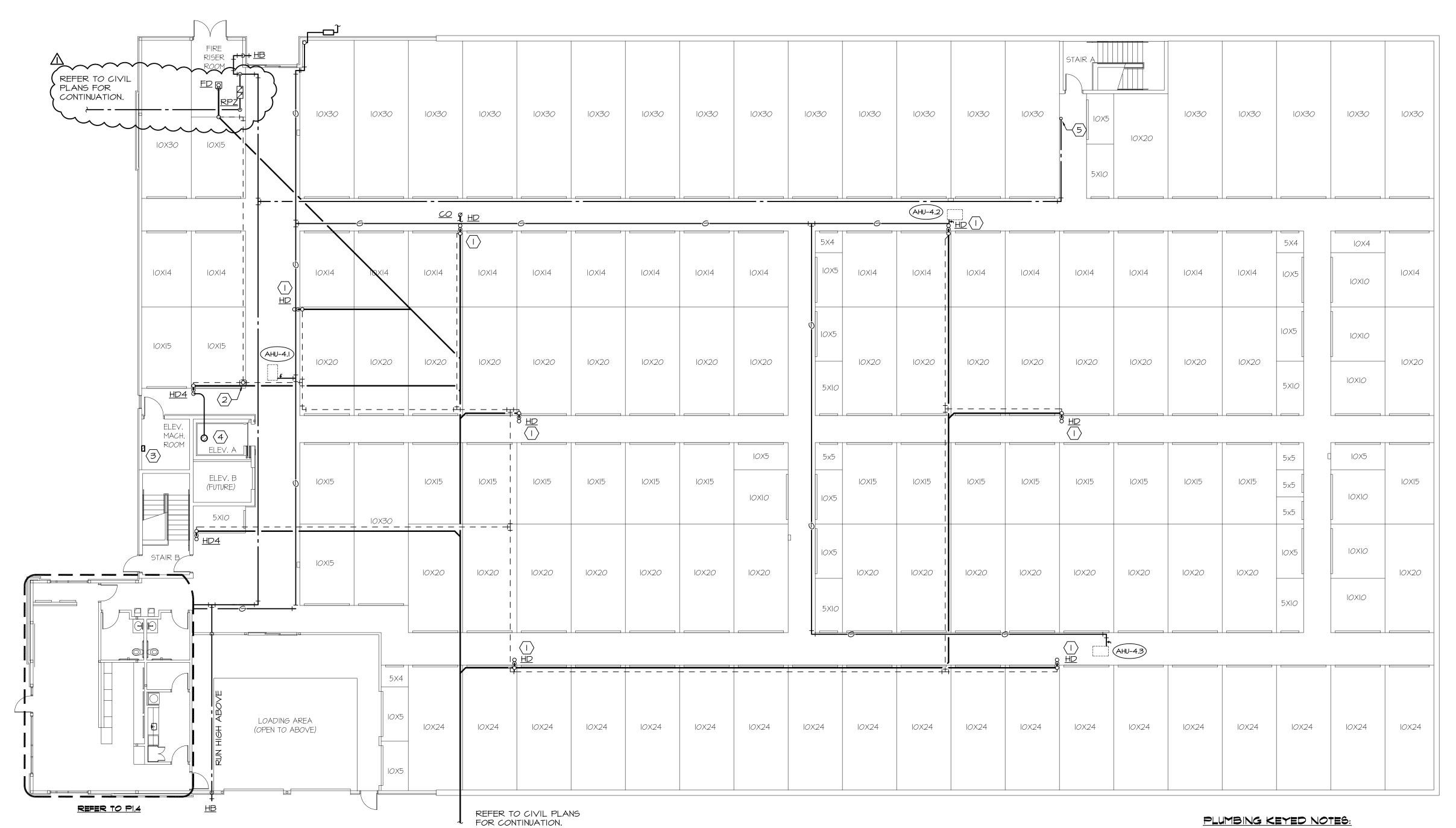
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DRAWN:

REVISIONS:

1ST FLOOR PLUMBING

SHEET NO.

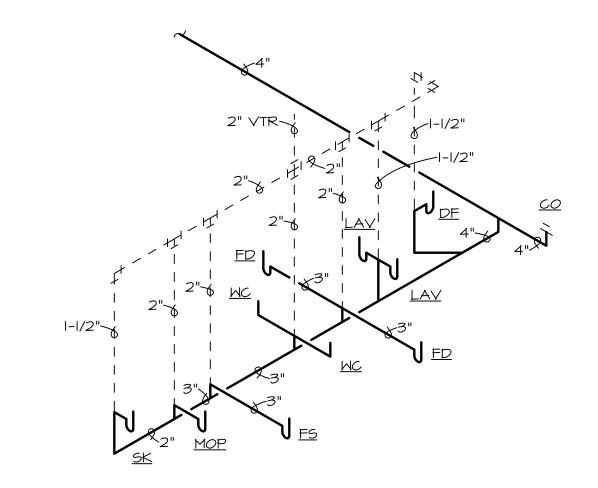


15 = 100R = PLUMBING PLAN SCALE: 3/32"=1'-0"

PLUMBING KEYED NOTES:

- HUB DRAIN FOR CONDENSATE DRAIN LINES, MOUNTED HIGH IN CORRIDOR. MAINTAIN AIR GAP.
- (2) RUN 2" VENT THRU ROOF. COORDINATE ROUTING WITH UPPER FLOOR.
- RUN 3/4" CONDENSATE LINE FROM CONDENSATE PUMP TO HUB DRAIN. EQUAL TO DAYTON #3HGE6; 82 GPH @ 5' HEAD, 51 GPH @ 15' HEAD
- $\overline{\langle 4 \rangle}$ SUMP PUMP FOR ELEVATOR SHAFT. RUN 2" DRAIN LINE TO 4" HUB DRAIN. REFER TO DETAIL 2/P2.I.
- $\langle 5 \rangle$ 3/4" C.W. LINE UP TO 2ND FLOOR.
- $\langle 6 \rangle$ XX" GAS LINE UP TO 2ND FLOOR.

3 COLD WATER RISER NO SCALE



2 WASTE & VENT RISER NO SCALE

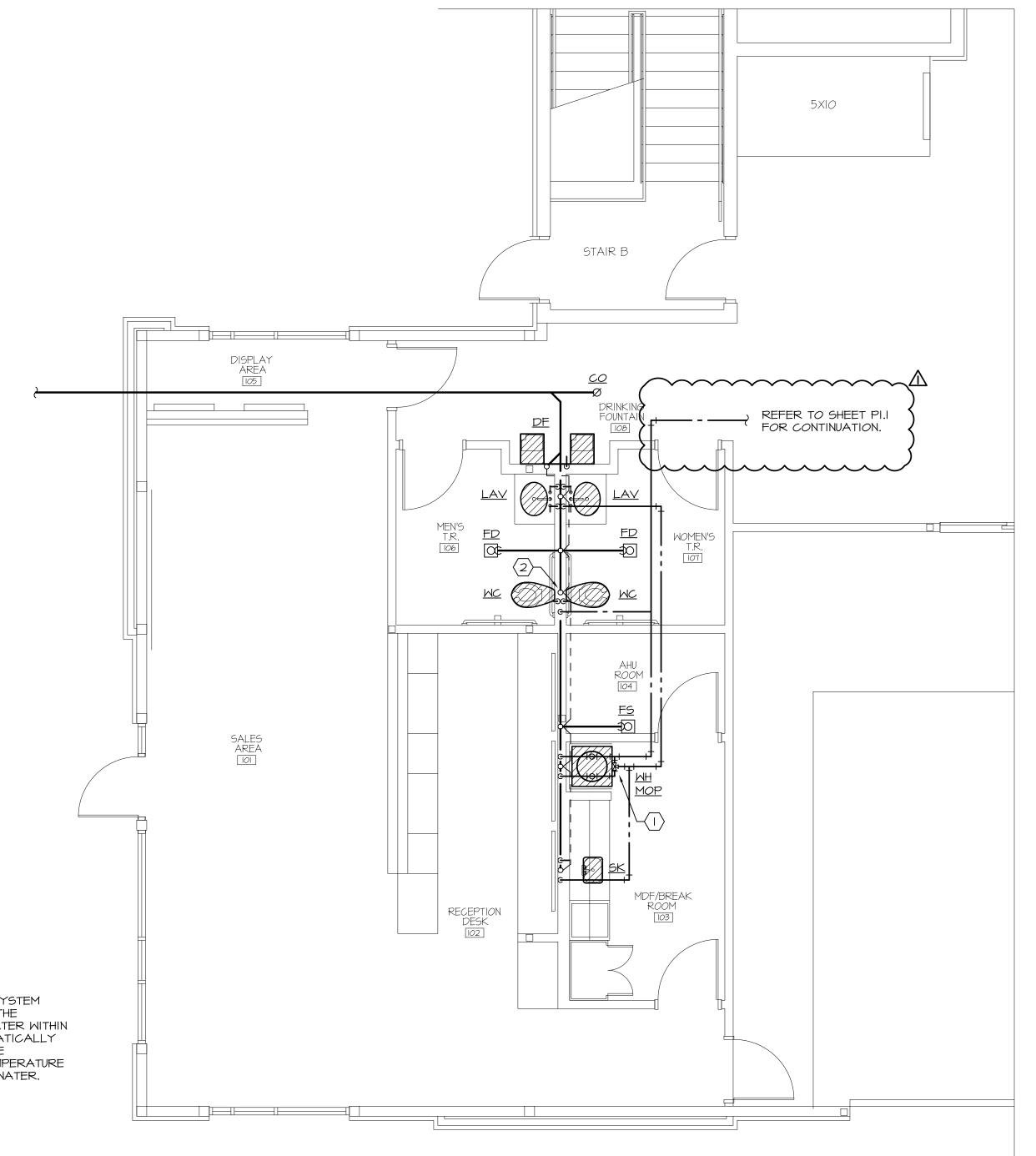
GENERAL PLUMBING NOTES :

I. CONTROLS FOR CIRCULATING HOT WATER SYSTEM PUMPS SHALL START THE PUMP BASED ON THE IDENTIFICATION OF A DEMAND FOR HOT WATER WITHIN OCCUPANCY. THE CONTROLS SHALL AUTOMATICALLY TURN OFF THE PUMP WHEN THE WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE AND WHEN THERE IS NO DEMAND FOR HOT WATER.

PLUMBING KEYED NOTES:

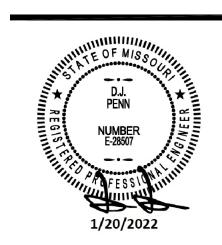
- PROVIDE & INSTALL 3/4" ANTI-SCALDING
 THERMOSTATIC MIXING VALVE ON HOT WATER
 LINE FEEDING PUBLIC RESTROOM LAVATORIES.
 SET TO 110° MAX. MUST CONFORM TO ASSE 1070.
- 2 RUN 2" VENT THRU ROOF. COORDINATE ROUTING WITH UPPER FLOOR.





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AKEWOOD STORAGE

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OFFICE PLUMBING

SHEET NO.

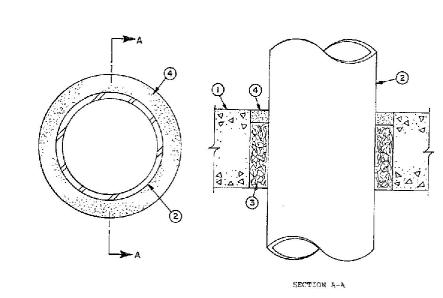
P1.4

FIRE RESISTANCE DIRECTORY (BXRH)

THROUGH-PENETRATION FIRESTOP SYSTEMS (XHEZ)—Continued

System No. C-AJ-1014 (Formerly System No. 133) F Rating—2 Hr

T Rating—0 Hr L Rating At Ambient—Less Than 1 CFM/sq ft (See Item 4) L Rating At 400 F—Less Than 1 CFM/sq ft (See Item 4)

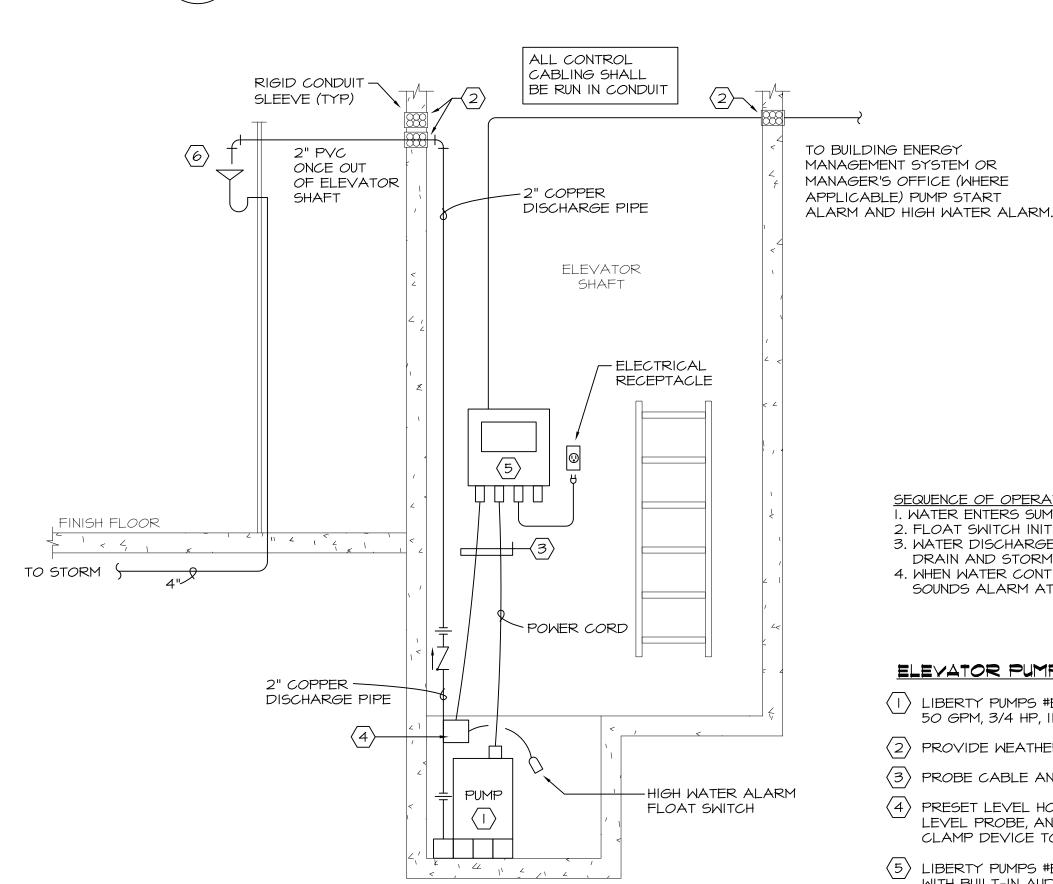


- 1. Floor or Wall Assembly—Min 3-1/4 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of circular opening is 6 in. See Concrete Block (CAZT) category in the Fire Resistance Directory
- for names of manufacturers. 2. Through Penetrants—One metallic pipe or conduit to be centered within the firestop system. A nom annular space of 3/4 in. is required within the firestop system. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:
- A. Steel Pipe—Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. Conduit—Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
- 3. Packing Material—Min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as require to accommodate the required thickness of fill material. Min thickness of packing material in floors and walls to be 2-3/4 in, and 2-1/4 in.,
- 4. Fill, Void or Cavity Material*—Sealant—Min 1/2 in. thickness of fill material applied within annulus, flush with top surface of floor or with both surfaces of wall. As an alternate, the permanent forming material (Item 3) may be omitted if the fill material thickness is increased to a

Minnesota Mining & Mfg. Co.—Types FB-2000, FB-2000+, FB-2003 (floors only). (Note: L Ratings apply only when FB-2000+ is

UL FIRE PENETRATION DETAIL

*Bearing the UL Classification Marking



ELEVATOR SUMP PUMP SYSTEM DETAIL
NOT TO SCALE

SERVICE WATER SYSTEMS FUNCTIONAL TESTING/COMMISSIONING PLAN

THE CONTRACTOR SHALL COMPLETE THE TASKS BELOW TO COMMISSION THE SERVICE WATER SYSTEMS AND CONTROL SYSTEM AND SUBMIT WRITTEN DOCUMENTATION DETAILING THE TASKS BELOW. FOR EACH TASK, LIST THE DATE PERFORMED, PERSON COMPLETING THE TASK, THE INITIAL SETTING/CONDITION, LIST OF SPECIFIC EQUIPMENT, APPLIANCES OR SYSTEMS TO BE TESTED AND DESCRIPTION OF OF THE TESTS TO BE PERFORMED. ACTIONS PERFORMED, AND FINAL SETTING CONDITION. SUBMIT DOCUMENTATION AT OR BEFORE SUBSTANTIAL COMPLETION TO FACILITATE OBTAINING THE CERTIFICATE OF OCCUPANCY.

- I. ENSURE ALL WATER SYSTEMS INSTALLED AND ARE FUNCTIONAL.
- 2. ENSURE SERVICE WATER HEATING CONTROL SYSTEMS ARE CALIBRATED AND FUNCTIONAL AND OPERATE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 3. EQUIPMENT SHALL DEMONSTRATE THE INSTALLATION AND OPERATION OF COMPONENTS.

PIPING MATERIAL SCHEDULE				
TYPE	MATERIALS			
WATER LINES	COPPER TYPE "L" OR CROSS-LINKED POLYETHYLENE (PEX) W/ I" THICK ARMAFLEX OR EQUIVALENT INSULATION			
MASTE LINE	ABS SCHEDULE 40 OR CAST IRON			
VENT LINE	ABS SCHEDULE 40 OR COPPER PIPING			
CONDENSATE	PVC SCHEDULE 40			

PIPING LEG	END
SYMBOL	TYPE
	COLD WATER
	HOT WATER
	MASTE LINE
	VENT LINE

$^{\underline{\square}} \\$ REDUCED PRESSURE-PRINCIPAL BACKFLOW COLD WATER ---PREVENTER SUPPLY TO SYSTEM FOR WALL SUPPORT INSTALLATION -USE WALL BRACKET ON EITHER SIDE OF GATE VALVES. (TYPICAL) 12" MINIMUM TO ---SUPPORT BOTTOM OF RELIEF OPENINGS FINISHED FLOOR - WATER LINE FROM METER BACKFLOW PREVENTER DETAIL

SEQUENCE OF OPERATION: I. WATER ENTERS SUMP.

- 2. FLOAT SWITCH INITIATES SUMP, PUMP, AND ALARM AT MANAGER'S OFFICE 3. WATER DISCHARGES THROUGH NORMALLY OPEN SOLENOID VALVE (A) TO HUB
- 4. WHEN WATER CONTINUES TO RISE, HIGH WATER ALARM FLOAT SWITCH SOUNDS ALARM AT MANAGER'S OFFICE.

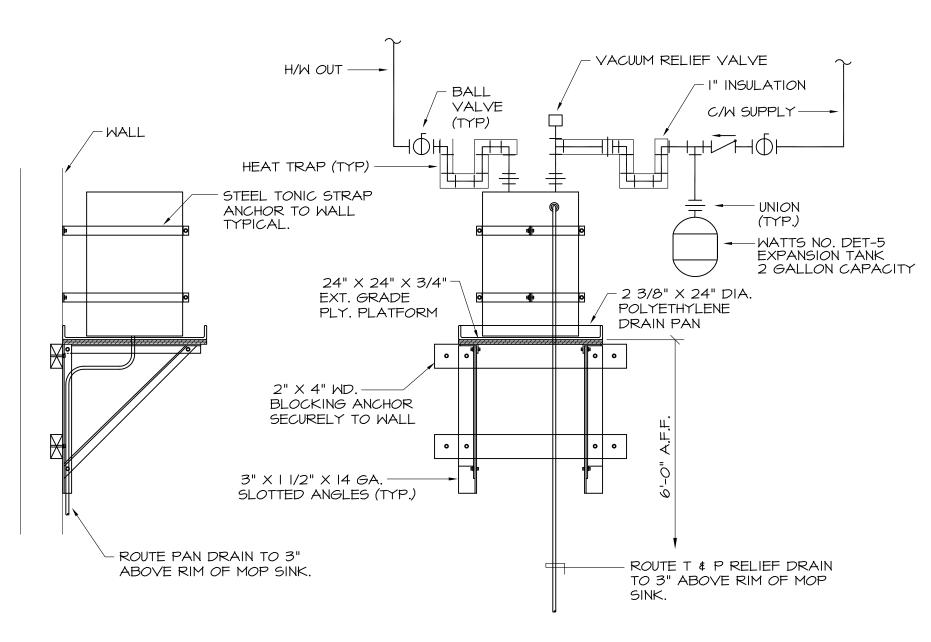
ELEVATOR PUMP KEYED NOTES:

- LIBERTY PUMPS #ELV290, SUBMERSIBLE PUMP SYSTEM 50 GPM, 3/4 HP, II5VOLT, 2" DISCHARGE CONNECTION
- 2 PROVIDE WEATHERPROOF SEAL EQUAL TO LINK-SEAL.
- (3) PROBE CABLE AND POWER CABLE.
- 4 PRESET LEVEL HOLDER WITH HIGH LIQUID ALARM FLOAT, HIGH LEVEL PROBE, AND PUMP "ON" & PUMP "OFF" PROBE. CLAMP DEVICE TO PUMP DISCHARGE PIPING.
- (5) LIBERTY PUMPS #ELV-290 OILTECTOR SYSTEM, II5V/IP, CONTROL SYSTEM WITH BUILT-IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES RUN DUE TO HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACTOR FOR A REMOTE ALARM LOCATION.
- (6) HUB DRAIN N CORRIDOR. MAINTAIN AIR GAP.

			MBI	ng F	׆U⊧	re connection schedule
MARK	FIXTURE	CM	HM	М	V	REMARKS
MC	WATER CLOSET (HANDICAP)	1/2"	_	4"	2"	a. KOHLER #K-25077; ELONGAED WATER CLOSET; WHITE CHINA; I.28 GAL. PER FLUSH. b. McGUIRE #2166LK I/2" ANGLE SUPPLIES. c. CHURCH #295C WHITE, OPEN FRONT SEAT.
LAV	LAVATORY (HANDICAP)	1/2"	1/2"	2"	I-I/2"	a. KOHLER #K-2030; WALL MOUNTED; WHITE CHINA; 20"x 18"; 8" CENTERS b. CHICAGO FAUCET #404-VE2805-317ABCP, 0.5 GPM; 4" WRIST BLADES c. CHROME PLATED GRID STRAINER. d. 17 GA., 1 1/2" P-TRAP. e. 1/2"x 3/8" STOPS & SUPPLIES; CHROME PLATED. f. WADE SERIES 520 CARRIER. g. TRUEBRO #102 P-TRAP AND SUPPLY PIPING INSULATION KIT.
FD	FLOOR DRAIN	1/2"	_	3"	2"	a. WADE # 1100STD 6" DIA. CAST IRON FLOOR DRAIN PROVIDE 1/2" TRAP PRIMER
FS	FLOOR SINK	1/2"	-	3"	2"	a. WADE # 9113-EF6; 8×8×6 CAST IRON FLOOR SINK W/ 6"Φ FUNNEL, ALUMINUM DOME STRAINER AND NICKEL BRONZE HINGED TOP. PROVIDE I/2" TRAP PRIMER.
DF	WATER COOLER	1/2"	_	2"	I-I/2"	a. ELKAY #EZSTL8C; WALL MOUNT, BARRIER-FREE ACCESS, ADA COMPLIANT
MOP	MOP SINK	1/2"	1/2"	3"	I-I/2"	a. WILLIAMS #SBC-1800 "HILOW" 24"x24"x12" W/ STAINLESS STEEL CAP b. WILLIAMS #T-10-VB; SINK FITTING W/ VACUUM BREAKER, 3/4" HOSE TREADED OUTLET; PAIL HOOK W/ WALL SUPPORT c. PROVIDE STAINLESS STEEL BACK PANEL.
SK	BREAK SINK	1/2"	1/2"	2"	I-I/2"	a. ELKAY #LRADI72055; SINGLE BOWL; 18 GAUGE; DROP-IN 14"×14" BOWL b. DELTA FAUCET #28716LF, LEVER HANDLES, I.8 GPM; 5" SWING SPOUT. c. 3" PERFORATED GRID STRAINER; ELKAY #LK-8 d. 1/2"×3/8" STOPS AND SUPPLIES; CHROME PLATED. ELKAY #2165 LK.
HD	HUB DRAIN	-	_	3"	I-I/2"	a. PROVIDE 3" HUB DRAIN HIGH IN CORRIDOR.
HD4	HUB DRAIN	_	-	4"	2"	a. PROVIDE 4" HUB DRAIN HIGH IN CORRIDOR.
TD	TRENCH DRAIN	_	_	4"	2"	
HB	HOSE BIBB	3/4"	-	_	-	a. ZURN #1300; ENCASED, ANTI-SIPHON W/ NON-FREEZE TYPE INTEGRAL BACKFLOW PREVENTER
co	CLEANOUT	-	_	4"	-	a. WADE # 6000, CAST IRON W/ THREADED ADJUSTABLE HOUSING PROVIDE WITH TEE-WYE FITTING.
DCO	HEAVY-DUTY DOUBLE CLEANOUT SAMPLE PORT	-	-	4"	-	a. WADE # 6000Z, CAST IRON W/ THREADED ADJUSTABLE HOUSING PROVIDE WITH SINGLE RISER
TMV	THERMOSTATIC MIXING VALVE	3/4"	3/4"	-	-	a. SYMMONS "MAXLINE" #7-230-CK; LEAD FREE, TAMPER RESISTANT

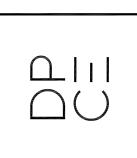
<u>NOTES</u>

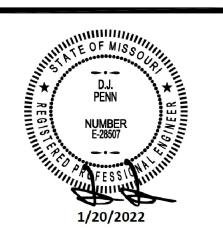
- I. ALL FIXTURES SHALL HAVE AN INDIVIDUAL SHUTOFF VALVE.
- 2. ALL FIXTURES SHALL BE PROVIDED W/ A SHOKTROL.
- 3. INSTALL A METER AND/ OR BACKFLOW PREVENTOR AS PER LOCAL CODE.





	WATER HEATER SCHEDULE							
MARK	RECOVERY		STORAGE	LINING	MAXIMUM INPUT	REMARKS		
	GPH	RISE°F	GALLONS		BTUH			
MH-I	10	60	20	<i>G</i> LASS	1.5 KM @ 120V/IФ	STATE #PCE-20-10MSA		





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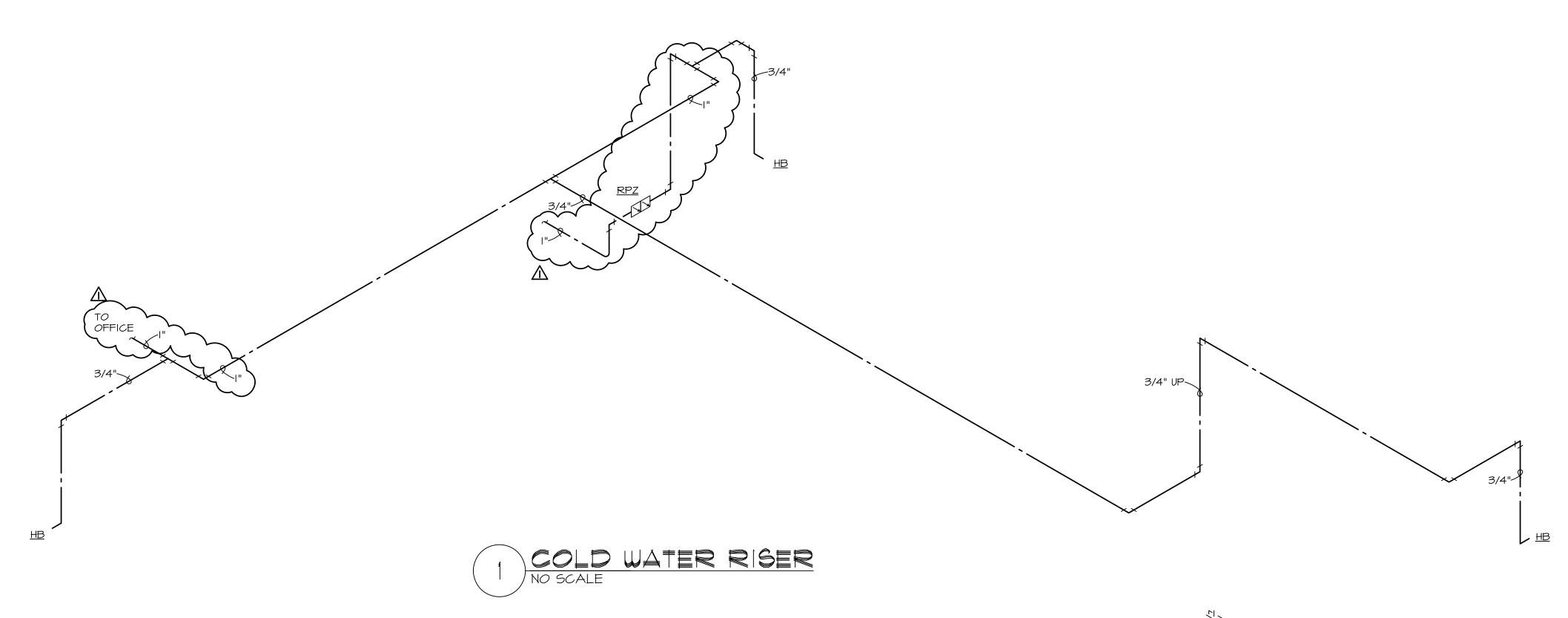
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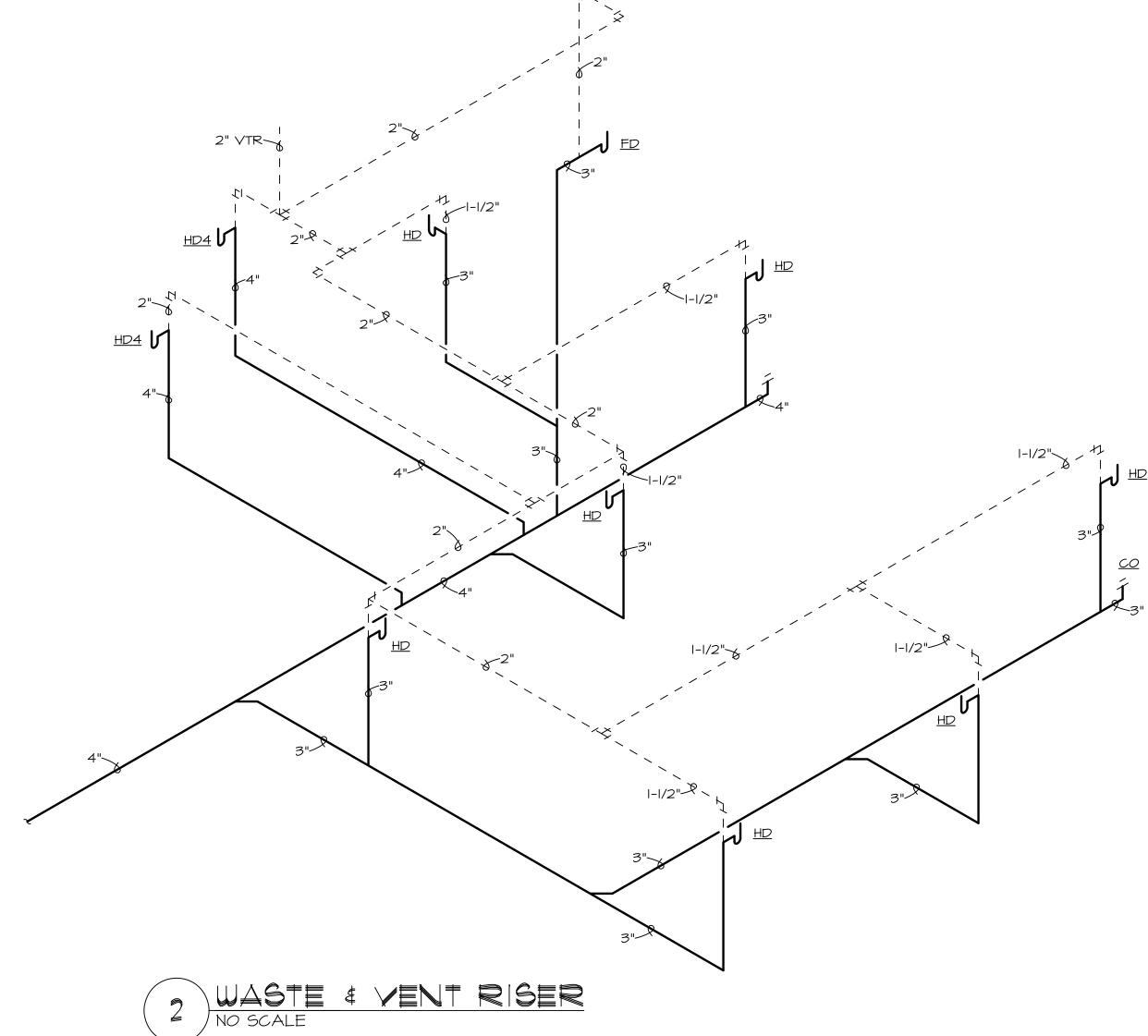
PLUMBING SCHEDULES

SHEET NO.

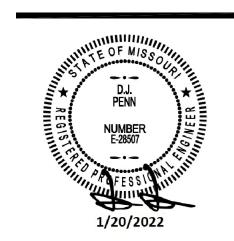


WATER METER	RFIXTURE	CALCULA	ATIONS		
<u>FIXTURE</u>	F.U. FIXTURE	# OF FIXTURES	TOTAL F.U.		
WATER CLOSET	5. <i>0</i>	2	10.0		
LAVATORY	2.0	2	4.0		
DRINKING FOUNTAIN	0.25	1	0.25		
BREAK SINK	1.4	I	1.4		
MOP SINK	3.0	1	3.0		
TOTAL WATER FIXTURE UNITS = 18.65 F.U.					
	PREDOMINANTLY F DEMAND ESTIMATE				
WATER SIZE	REQUIRED = I"				

<u>FIXTURE</u>	F.U. FIXTURE	# OF FIXTURES	TOTAL F.U
WATER CLOSET	4.0	2	8.0
LAVATORY	1.0	2	2.0
DRINKING FOUNTAIN	0.5	1	0.5
BREAK SINK	2.0	1	2.0
MOP SINK	3.0	1	3.0
FLOOR DRAIN	2.0	3	6.0
FLOOR SINK	2.0	1	2.0
HUB DRAIN	2.0	9	18.0







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PLUMBING RISERS

P2.2