



805 East Central Avenue
Bentonville, Arkansas 72712



Glen Jonson, PE
Jonson, LLC
2509 West 88th Street
Leawood, Kansas 66206
(913) 777-9965 Office

Robert Dimond, Jr. AIA
D. A. Group, Incorporated
5400 Johnson Drive #149
Mission, Kansas 66205
(913) 789-8665 Office

Greg Gladfelter, PE
Architectural Engineering Consortium, Inc.
10233 Millstone Drive #4112
Lenexa, Kansas 66220
(816) 916-4675 Office

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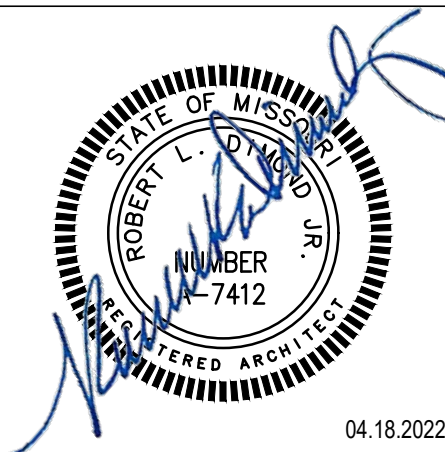
Date:
April 18, 2022

Project Address:
1499 SW Market Street
Lee's Summit, Missouri



5400 Johnson Drive #149
Mission, Kansas 66205
PH: 913.789.8665

MACADOODLES
INTERIOR TENANT FINISH
1499 MARKET STREET
LEE'S SUMMIT, MISSOURI



PROJECT NO: DA0835
DRAWN BY: D A STAFF

ISSUE DATE: 04/18/2022
BID SET ISSUE DATE: 04/15/2022
PERMIT SET ISSUE DATE: 04/15/2022

REV A
REV B
REV C

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SHEET NO.
CODE 100

CODE INFO

CODE INFO:
BUILDING CODES
2018 IBC
2018 IPC
2018 IMC
2018 IFCC
2018 IFC
2017 NEC/CC/ANSI A117.1-2009

ZONING CLASSIFICATION:
CP-2 PLANNED COMMUNITY COMMERCIAL

OCCUPANCY CLASSIFICATION:
SECTION 309: MERCANTILE M

CONSTRUCTION TYPE: VB

FIRE SUPPRESSION: AUTO SPRINKLER SYSTEM
PER SECTION 903.3.1.1
FIRE ALARM AS REQ'D PER NFPA 72

ALLOWABLE AREA:
TABLE 506.2: MERCANTILE-36,000 SF

ACTUAL BUILDING AREA:
12,078 S.F.

TENANT IMPROVEMENT AREA :
11,097 N.S.F.

OF OCCUPANTS:
M=143 OCCUPANTS

FIRE EXTINGUISHERS:
PORTABLE TYPE - 2A10B:C
WALL BRACKET MOUNT

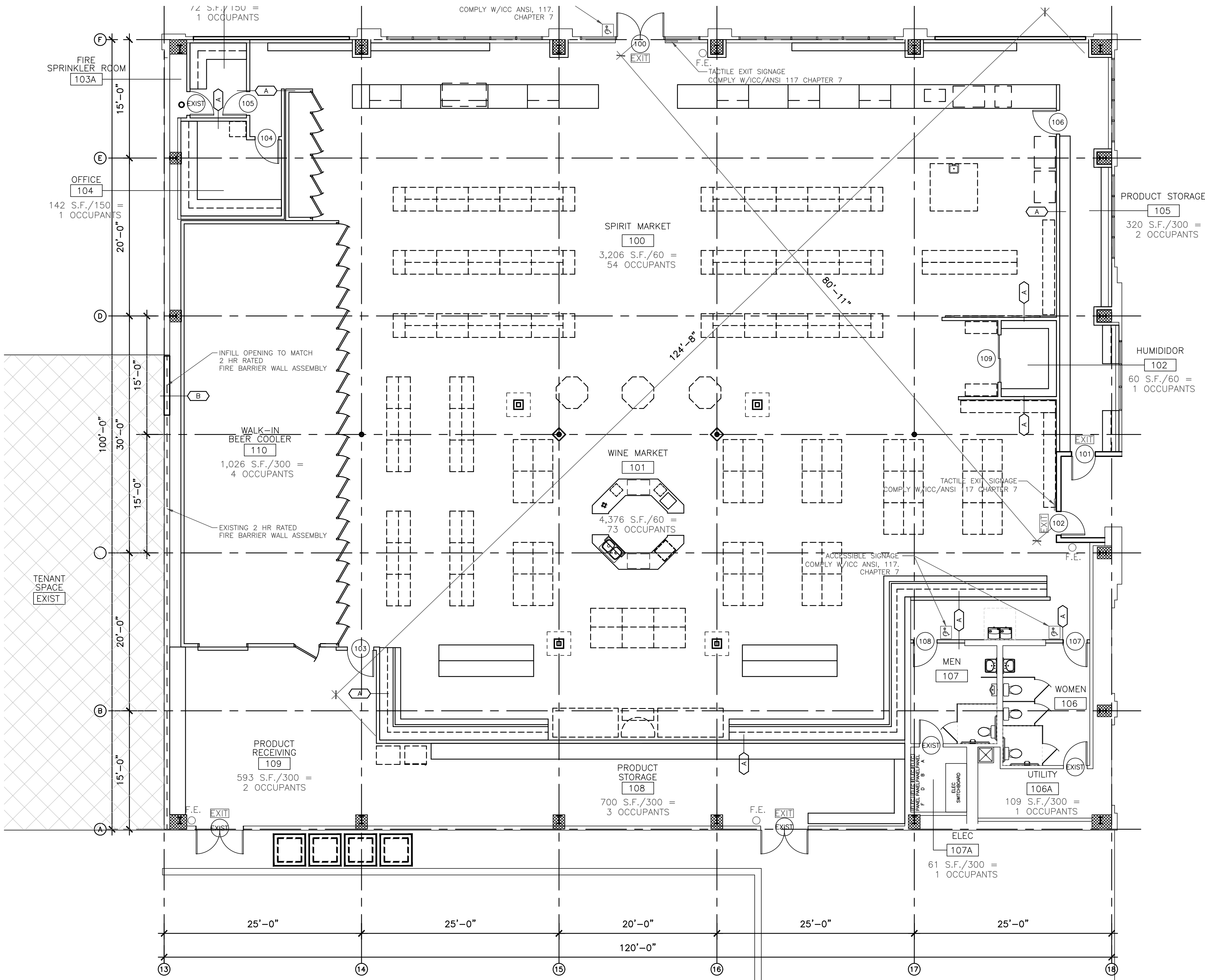
SYMBOL KEY

- DEMO
- EXIST'G WALL TO REMAIN
- NEW EXTERIOR WALL
- NEW INTERIOR WALL
- 2 HR RATED WALL
- 3'-0"x7'-0" DOOR/FRAME/SIZE PER PLAN/SCHEDULE
- A WALL TYPE
- A300 WALL SECTION
- A400 DETAIL SECTION
- A400 ENLARGED PLAN DETAIL
- VLP-1 INTERIOR MATERIAL/FINISH
- WOOD CASEWORK/SHELVING
- METAL DISPLAY SHELVING

WALL TYPES

- 3 5/8" 25 GA MTL STUDS @ 1'-4" O.C. TERMINATE 6" ABOVE FINISH CEILING U.N.O.
- 5/8" TYPE 'X' GYP BOARD EA SIDE
- FULL THICKNESS SOUND ATTENUATING BATTS
- A FIRE RATING: NR U.L. DESIGN: - S.T.C. RATING: - TESTING NO.: -
- 3 5/8" 25 GA MTL STUDS
- ADD (1) LAYER 5/8" TYPE 'X' GYP. BD. (BOTH SIDES)
- FULL THICKNESS SOUND ATTENUATING BATTS
- B FIRE RATING: 2 HR U.L. DESIGN: -U421 S.T.C. RATING: - TESTING NO.: -

PERMIT SET



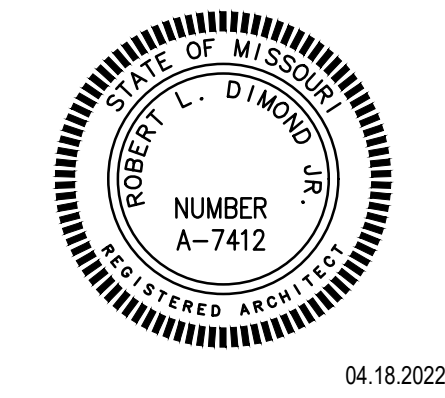
1 CODE FLOOR PLAN
1/8"=1'-0"

GENERAL NOTES



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MACADOODLES
INTERIOR TENANT FINISH
1499 MARKET STREET
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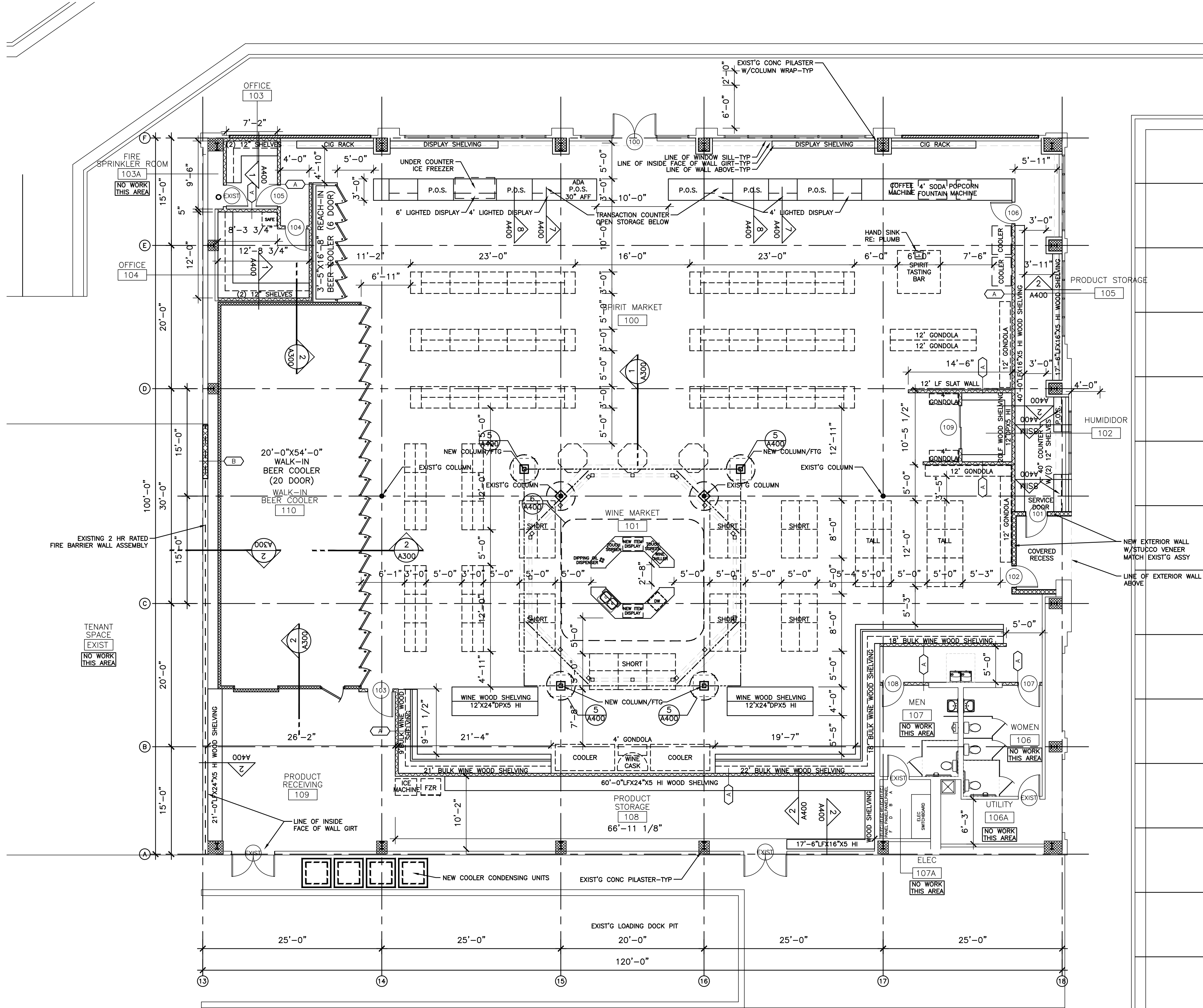
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REV B 04/15/2022
REV C 04/15/2022

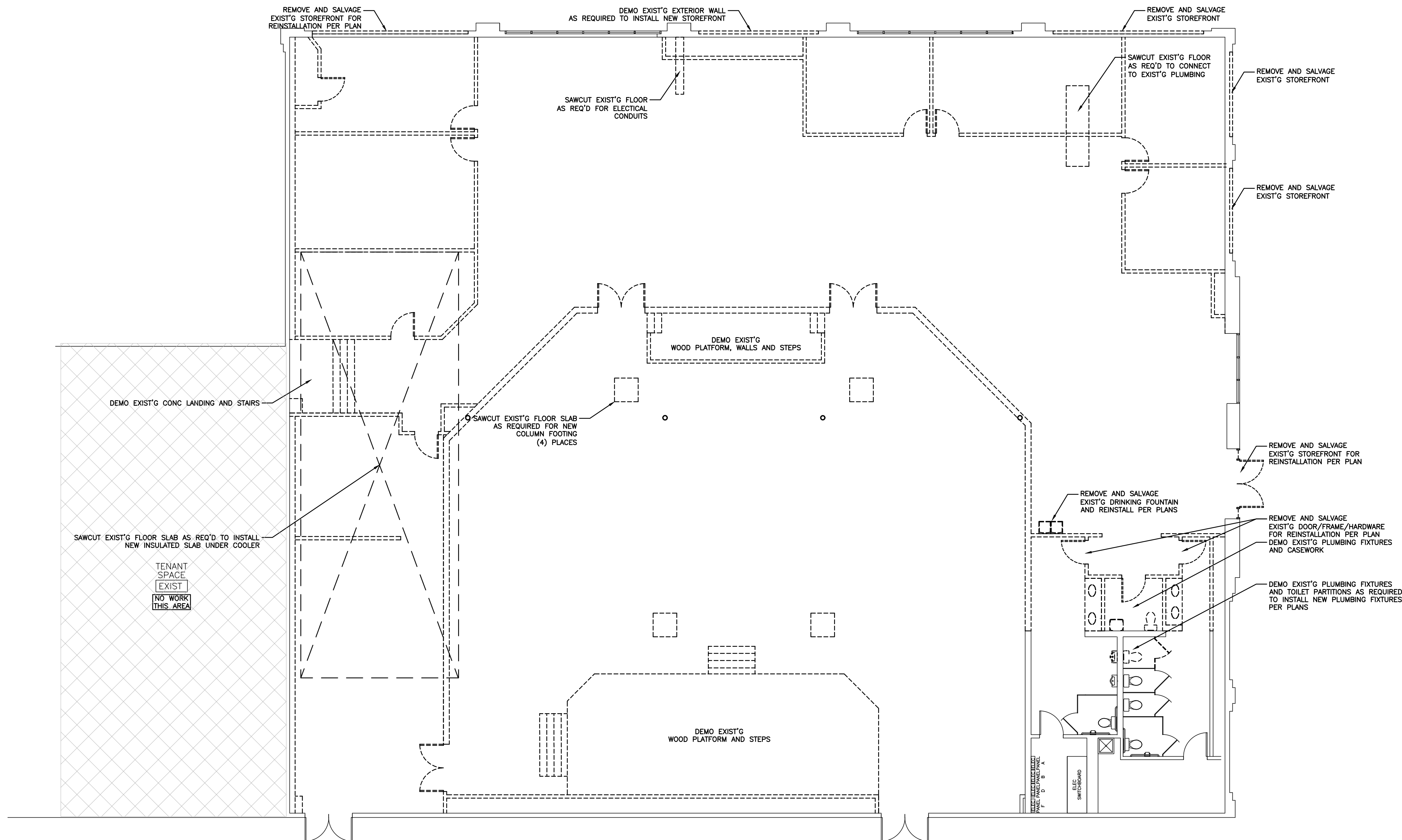
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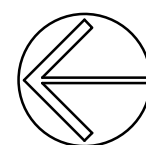


1 FLOOR PLAN
1/8"=1'-0"

PERMIT SET



1 FLOOR PLAN-DEMO
1/8"=1'-0"



PERMIT SET

RCP NOTES

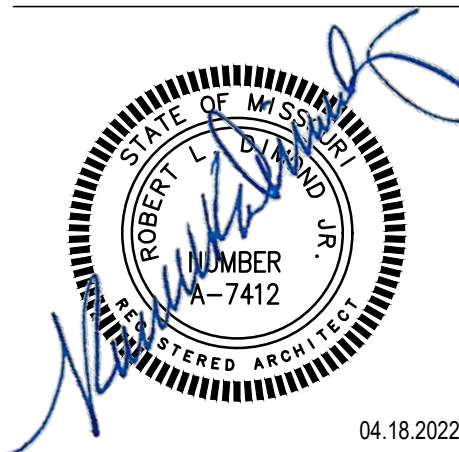
1. PAINT ALL DUCTWORK/SUPPLY-RETURN AIR DIFFUSERS AND CONDUIT ABOVE TRUSSED CEILING SATIN BLACK

2. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES/SPECIFICATIONS



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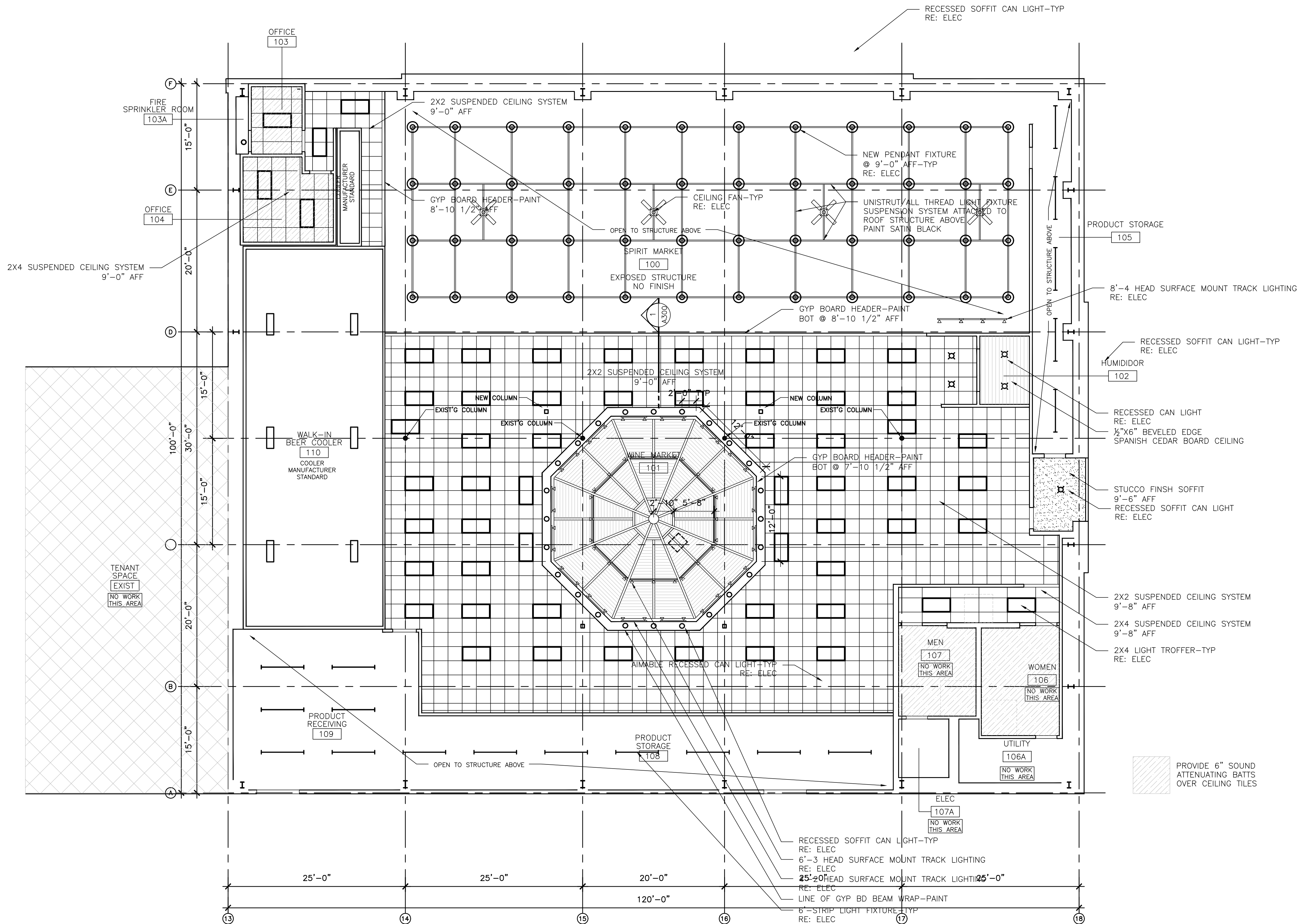
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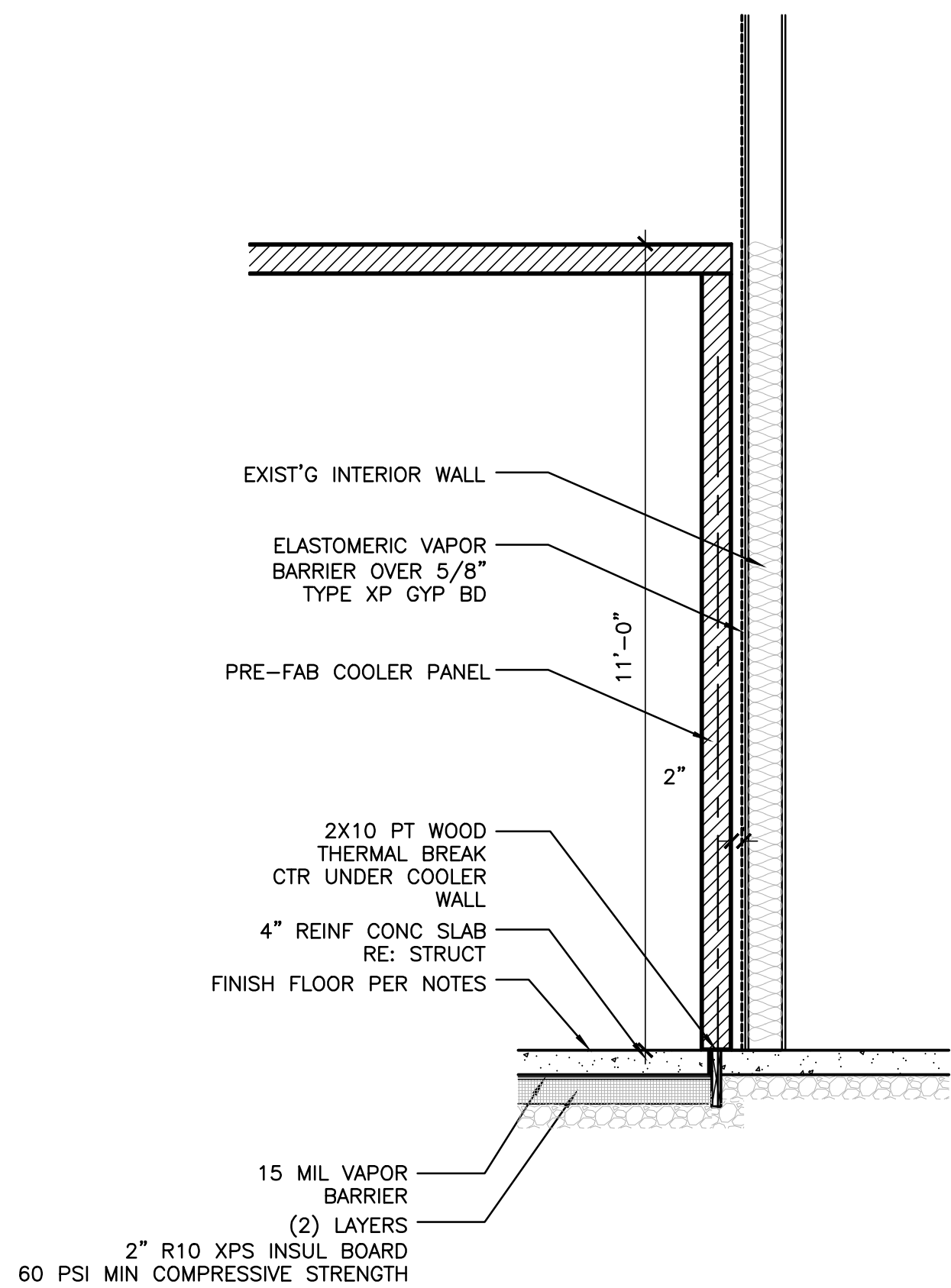
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A102

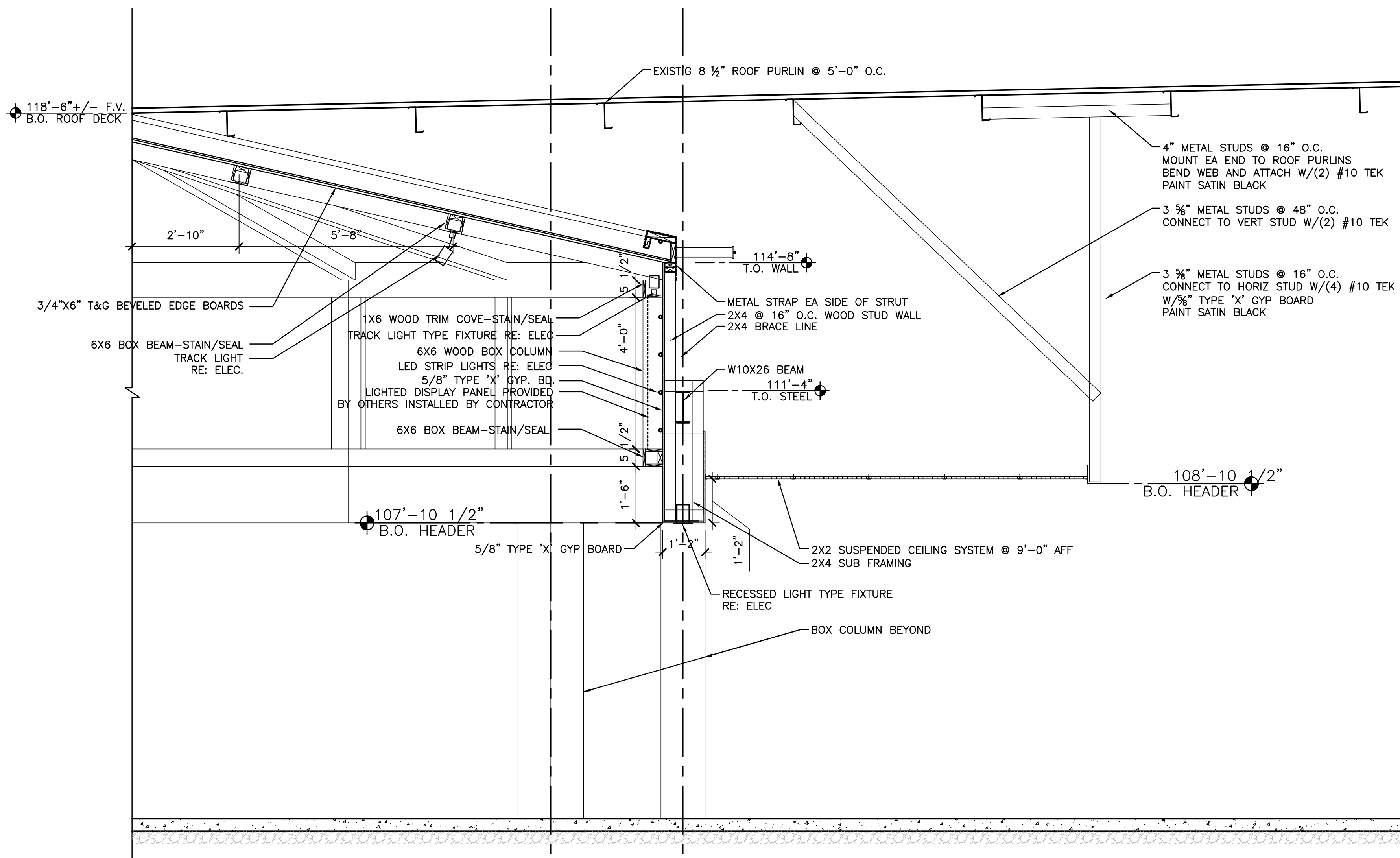


1 REFLECTED CEILING PLAN
1/8"=1'-0"

PERMIT SET



2 SECTION
1/2"=1'-0"



1 SECTION
1/2"=1'-0"

DOOR NUMBER	DOOR TYPE	SIZE			MATL	GLAZING	LOUVER		FRAME		FIRE RATING LABEL	HARDWARE												NOTES	DOOR NUMBER
		WD	HGT	THK			WD	HGT	MATL	TYPE		Hinges	Lockset Functions	Closer	Kick Plate 12" High	Armored Plate 34" High	Wall/Floor Stop	Smoke Gasket	Weather Strip	Threshold	Astragal	Exit Device	Rain Drip		
100	---	PR 3'-0"	7'-0"	2"	ALUM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SALVAGED/REINSTALL	100
101	---	PR 3'-0"	7'-0"	2"	ALUM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SALVAGED/REINSTALL	101
102	---	PR 3'-0"	7'-0"	2"	ALUM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SALVAGED/REINSTALL	102
103	C	PR 3'-6"	7'-0"	1 3/4"	WD	---	0"	0"	WD 2	---	---	3 PR.	X	X	---	---	---	X	---	---	---	---	---	---	103
104/105	B	3'-0"	7'-0"	1 3/4"	WD	---	0"	0"	WD 1	---	---	1-1/2 PR.	PRIVACY/DEAD BOLT PASSAGE	X	---	---	---	---	---	---	---	---	---	---	104/105
106	B	3'-0"	7'-0"	1 3/4"	WD	---	0"	0"	WD 1	---	---	1-1/2 PR.	X	---	---	---	---	---	---	---	---	---	---	---	106
107/108	---	3'-0"	7'-0"	1 3/4"	WD	---	0"	0"	WD 1	---	---	---	---	---	---	---	---	---	---	---	---	---	SALVAGED/REINSTALL	107/108	
109	A	6'-0"	7'-0"	MFG STD	ALUM	X	0"	0"	MFG STD	---	---	MFG STD	---	---	---	---	MFG STD	---	---	---	---	---	---	---	109

MAIN ENTRANCE
SOUTH SERVICE SERVICE
SOUTH EXIT
PRODUCT STORAGE
OFFICE
PRODUCT STORAGE (SOUTH)
TOILETS
HUMIDIDOR

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MACADOODLES
INTERIOR TENANT FINISH

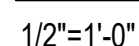
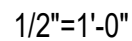
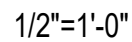
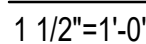
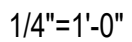
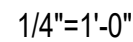
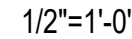
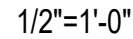
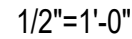
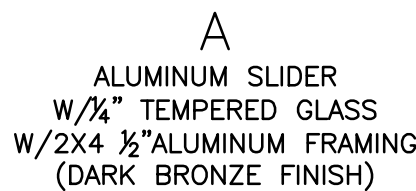
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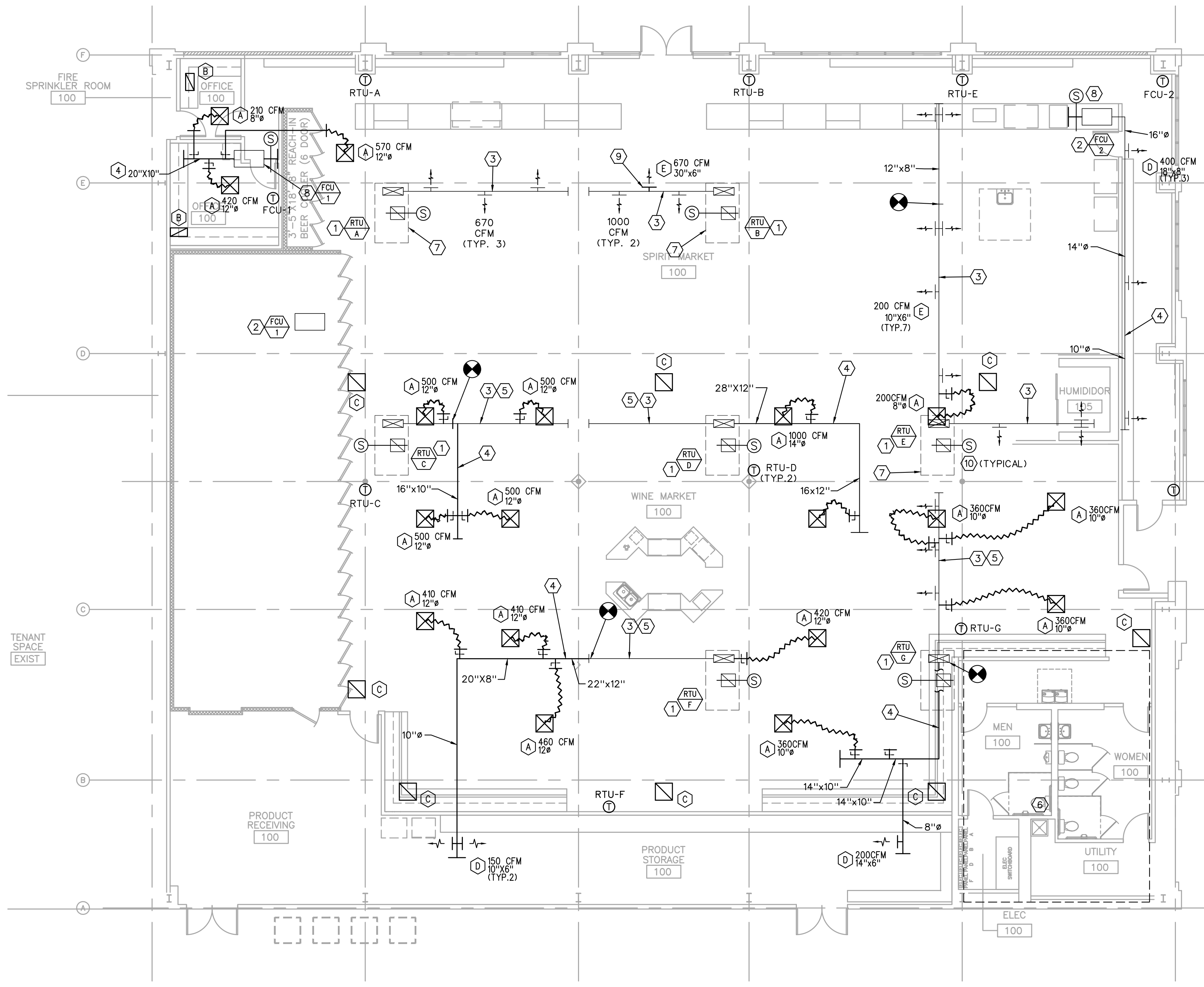
1. ALL DOOR HARDWARE TO BE SELECTED BY TENANT AND INSTALLED BY CONTRACTOR PER CONTRACTOR'S ALLOWANCE.
2. PROVIDE AND INSTALL SELF-CLOSING DEVICES ON ALL DOORS UNLESS DIRECTED OTHERWISE BY TENANT.
3. ALL DOORS HAVE AN OPENING FORCE OF NOT MORE THAN 5 LBS.
4. DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES SHALL BE ADA COMPLIANT AND NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. COORDINATE LOCKSET FUNCTION WITH TENANT.
5. EGRESS DOORS SHALL BE READILY OPENABLE FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
6. ALL DOORS SHALL HAVE A MINIMUM CLEAR OPENING OF NOT LESS THAN 32 INCHES.

NTS


$$1/2'' = 1'-0''$$


PERMI

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MECHANICAL FLOOR PLAN

1/8" = 1'-0"



MECHANICAL PLAN NOTES (#):

- EXISTING 5-TON RTU (2000 CFM SHALL REMAIN AS CURRENTLY INSTALLED).
- EXISTING 3-TON (ESTIMATED) FCU (1200 CFM SHALL BE RELOCATED).
- EXISTING DUCTWORK SHALL REMAIN. REPAIR AS REQUIRED TO MAKE AIR TIGHT.
- NEW SUPPLY AIR DUCTWORK.
- REMOVE EXISTING DUCT MOUNTED SA REGISTERS AND SEAL DUCT AIRTIGHT.
- HVAC SYSTEMS IN THIS AREA SHALL REMAIN AS CURRENTLY INSTALLED.
- RE-BALANCE CFM'S AT EXISTING SA REGISTERS AS INDICATED.
- NEW LOCATION OF FCU. CONTRACTOR SHALL VERIFY SIZE AND AIR VOLUMES INDICATED AND SHALL ADJUST AIR VOLUMES NOTED ACCORDINGLY.
- INSTALL NEW SUPPLY REGISTER ON EXISTING SA DUCT.
- INSTALL DUCT SMOKE DETECTOR AT RTU RETURN AIR INLET. ALL RTU AND FCU FANS SHALL BE DISABLED UPON SMOKE DETECTED AT ANY SMOKE DETECTOR. SEE THE SPECIFICATION FOR ADDITIONAL DETAILS.

MECHANICAL GENERAL NOTES (RTU)

- A) COORDINATE LOCATION OF CEILING DIFFUSERS AND RETURN GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- B) CONTRACTOR SHALL INSURE THAT A PROPER RETURN AIR PATH EXISTS FROM EACH SPACE. WHERE NOT OTHERWISE INDICATED AND IN RETURN AIR PLENUM APPLICATIONS, PROVIDE FLANGED RETURN AIR OPENINGS ABOVE CEILING LEVEL, THRU WALLS TO STRUCTURE, SO THAT RETURN AIR VELOCITY AND PRESSURE DROP DOES NOT EXCEED 1000 FPM AND 0.065"WG/100' RESPECTIVELY.
- C) CONFIRM THAT NO COMBUSTIBLE MATERIALS ARE LOCATED IN CEILING RETURN AIR PLENUMS.
- D) TEMPERATURE CONTROL INCLUDES ALL CONTROL WIRING FOR COMPLETE OPERATION OF ROOFTOP UNITS BY MECHANICAL CONTRACTOR ACCORDING TO THE FOLLOWING SEQUENCE OF OPERATIONS:

RTU SEQUENCE OF CONTROL:

PROVIDE A WALL MOUNTED 7-DAY HEATING/COOLING THERMOSTAT FOR EACH ROOFTOP UNIT INSTALLED IN A LOCATION APPROVED BY THE OWNER. INSTALL TAMPERPROOF COVER.

DAY OPERATION - THE TIMECLOCK OR MANUAL OVERRIDE FUNCTION SHALL AUTOMATICALLY ACTIVATE THE SYSTEM TO THE "OCCUPIED" OR "DAY" MODE. THE SYSTEM SHALL HEAT OR COOL THE SPACE TO THE DESIRED SET POINTS (COOLING: 74°F AND HEATING: 70°F) THROUGH THE THERMOSTATS BUILT-IN DEADBAND. THE OUTSIDE AIR DAMPERS SHALL BE AT THEIR MINIMUM POSITION AND THE FAN SHALL MAINTAIN CONTINUOUS OPERATION.

NIGHT OPERATION - THE TIMECLOCK SHALL AUTOMATICALLY ACTIVATE THE SYSTEM TO THE "NIGHT/UNOCCUPIED" MODE. THE SYSTEM SHALL HEAT OR COOL THE SPACE TO THE DESIRED NIGHT SET POINTS (COOLING: 85°F AND HEATING: 60°F) THROUGH THE THERMOSTATS NIGHT/UNOCCUPIED SETPOINTS. THE OUTSIDE AIR DAMPERS SHALL BE CLOSED AND THE FAN SHALL CYCLE AS NEEDED TO MAINTAIN THE THERMOSTAT SETPOINTS.

ECONOMIZER OPERATION TO ENABLE FREE COOLING SHALL BE A FUNCTION OF THE RTU MANUFACTURER'S STANDARD CONTROLS.

DEHUMIDIFICATION OPERATION, IF PROVIDED, SHALL BE A FUNCTION OF THE RTU MANUFACTURER'S STANDARD CONTROLS. INSTALL HUMIDISTAT ARE RECOMMENDED BY MANUFACTURER.

SAFETY OPERATION - THE FIRE ALARM SYSTEM SHALL SHUTDOWN OPERATION OF RTU FAN UPON DETECTION OF SMOKE AT ANY SMOKE DETECTOR INSTALLED AT THIS FACILITY.

- E. COORDINATE LOCATION OF THERMOSTATS WITH THE ARCHITECT.

MECHANICAL SYMBOLS

- NEW SHEET METAL DUCTWORK & SIZE.
- NEW SHEET METAL DUCTWORK & SIZE.
- SUPPLY AIR DUCT OR OUTSIDE AIR INTAKE.
- RETURN AIR DUCT OR EXHAUST AIR DUCT.
- DIRECTION OF RETURN AIRFLOW.
- THERMOSTAT OR TEMPERATURE SENSOR.
- CD CONDENSATE DRAIN.
- ELBOW DOWN.
- ELBOW UP.

SA SUPPLY AIR.

OA OUTSIDE AIR.

RA RETURN AIR.

EA EXHAUST AIR.

CU CONDENSING UNIT.

EF EXHAUST FAN.

RTU ROOFTOP UNIT.

PLAN NOTE DESIGNATION.

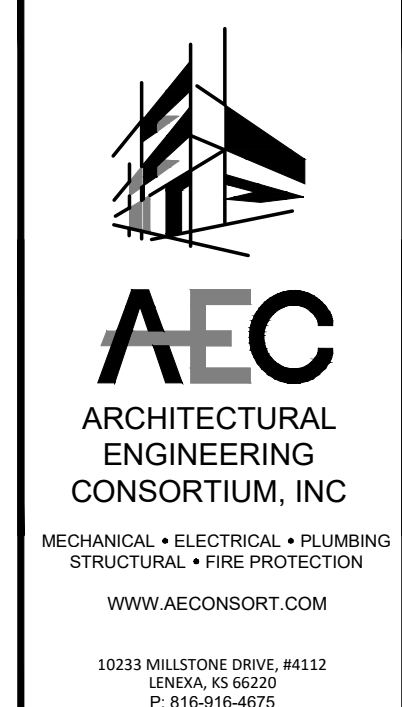
PLAN REVISION DESIGNATION.

CONNECT TO EXISTING.

MECHANICAL EQUIPMENT DESIGNATION - TOP PORTION IS EQUIPMENT (RTU, EF, HP, ETC.), BOTTOM PORTION IS NO. OR LETTER (SEE APPROPRIATE SCHEDULE).

MACADOODLES

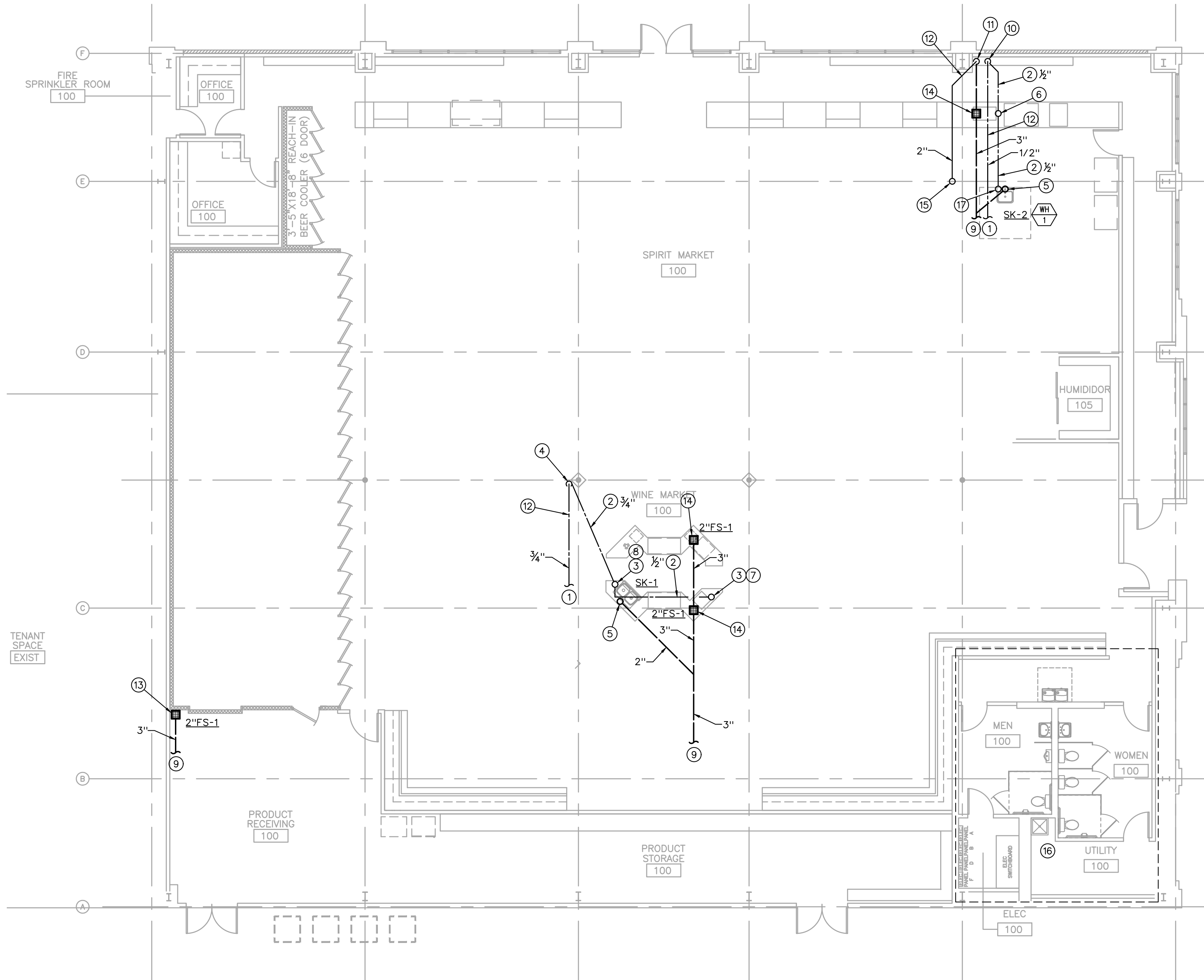
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LEE'S SUMMIT, MISSOURI



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DATE:	04/13/2022
REVISIONS:	
DESIGNED BY:	GEG
DRAWN BY:	GEG
CHECKED BY:	GEG
SHEET NO.	

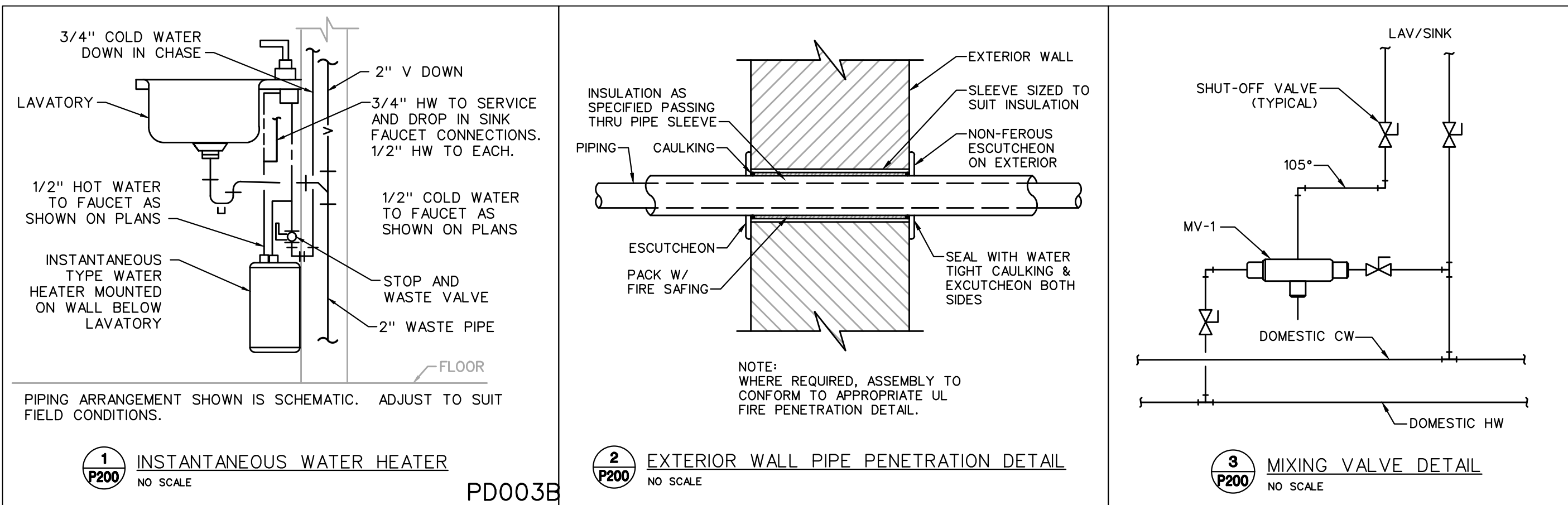
M200

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PLUMBING FLOOR PLAN

1/8" = 1'-0"



PLUMBING PLAN NOTES ④

1. EXTEND CW FROM NEAREST CW PIPING OF SAME SIZE OR LARGER.
2. CW PIPING BELOW FLOOR SLAB.
3. 1/2" CW UP THRU FLOOR TO SINK OR DISHWASHER.
4. CW DOWN ALONG COLUMN.
5. 2" W UP. INSTALL AIR ADMITTANCE VALVE AS HIGH AS POSSIBLE BELOW COUNTER.
6. 1/2" CW UP THRU FLOOR TO SODA DISPENSER.
7. 1/2" CW TO INSTANTANEOUS WATER HEATER, 1/2" CW AND HW TO SINK FAUCET.
8. 1/2" CW TO INSTANTANEOUS WATER HEATER, 1/2" HW TO DISHWASHER.
9. CONNECT NEW W OR SAN TO EXISTING 4" SAN. FIELD VERIFY EXACT LOCATION AND SIZE.
10. 1/2" CW DOWN IN WALL. INSTALL ON INTERIOR SIDE INSULATION (WARM SIDE).
11. 2" V UP TO ABOVE CEILING.
12. PIPING ABOVE CEILING.
13. EXTEND CONDENSATE DRAINS FROM BEER COOLER TO DAYLIGHT OVER FLOOR SINK.
14. EXTEND DRAIN FROM WINE COOLER, SODA FOUNTAIN OR DISHWASHER TO DAYLIGHT ABOVE FLOOR SINK.
15. 3" VTR.
16. EXISTING PLUMBING IN THIS AREA SHALL REMAIN AS CURRENTLY INSTALLED EXCEPT REPLACE EXISTING FIXTURES WITH NEW. REWORK PLUMBING PIPING AS REQUIRED TO ACCOMMODATE NEW FIXTURES.
17. 1/2" CW UP THRU FLOOR. 1/2" CW TO INSTANTANEOUS WATER HEATER, 1/2" CW AND HW TO SINK FAUCET.

PLUMBING GENERAL NOTES

- A) ALL FIXTURES USED SPECIFICALLY FOR HANDWASHING PURPOSES (LAVATORIES, HAND SINKS, ETC.) SHALL BE PROVIDED WITH A TEMPERING VALVE TO TEMPER THE HOT WATER TO THE FIXTURE (MAXIMUM OF 105-DEGREES F).
- B) SEE "PLUMBING RISER DIAGRAMS", THIS SHEET, FOR PIPING NOT SHOWN ON THE PLANS.

PLUMBING SYMBOLS

	EXISTING TO REMAIN.
	NEW PIPING WORK.
	DOMESTIC COLD WATER (CW).
	DOMESTIC HOT WATER (HW).
	HOT WATER RECIRCULATION (HWR).
	PLUMBING VENT ABOVE FLOOR (V).
	SANITARY WASTE ABOVE FLOOR (W).
	SANITARY WASTE BELOW FLOOR (W).
	GAS (NATURAL) (NG).
	ELBOW DOWN.
	ELBOW UP.
	TEE DOWN.
	TEE UP.
	CAP.
	PIPE UNION.
	1/4 TURN SHUT-OFF VALVE.
	CHECK VALVE.
	VTR VENT THRU ROOF (VTR).
	ETR EXISTING TO REMAIN.
	PLAN NOTE DESIGNATION.
	PLAN REVISION DESIGNATION.
	CONNECT TO EXISTING.
	PLUMBING EQUIPMENT DESIGNATION - TOP PORTION IS EQUIPMENT (HW, RTU, ETC.), BOTTOM PORTION IS NO. OR LETTER (SEE APPROPRIATE SCHEDULE).

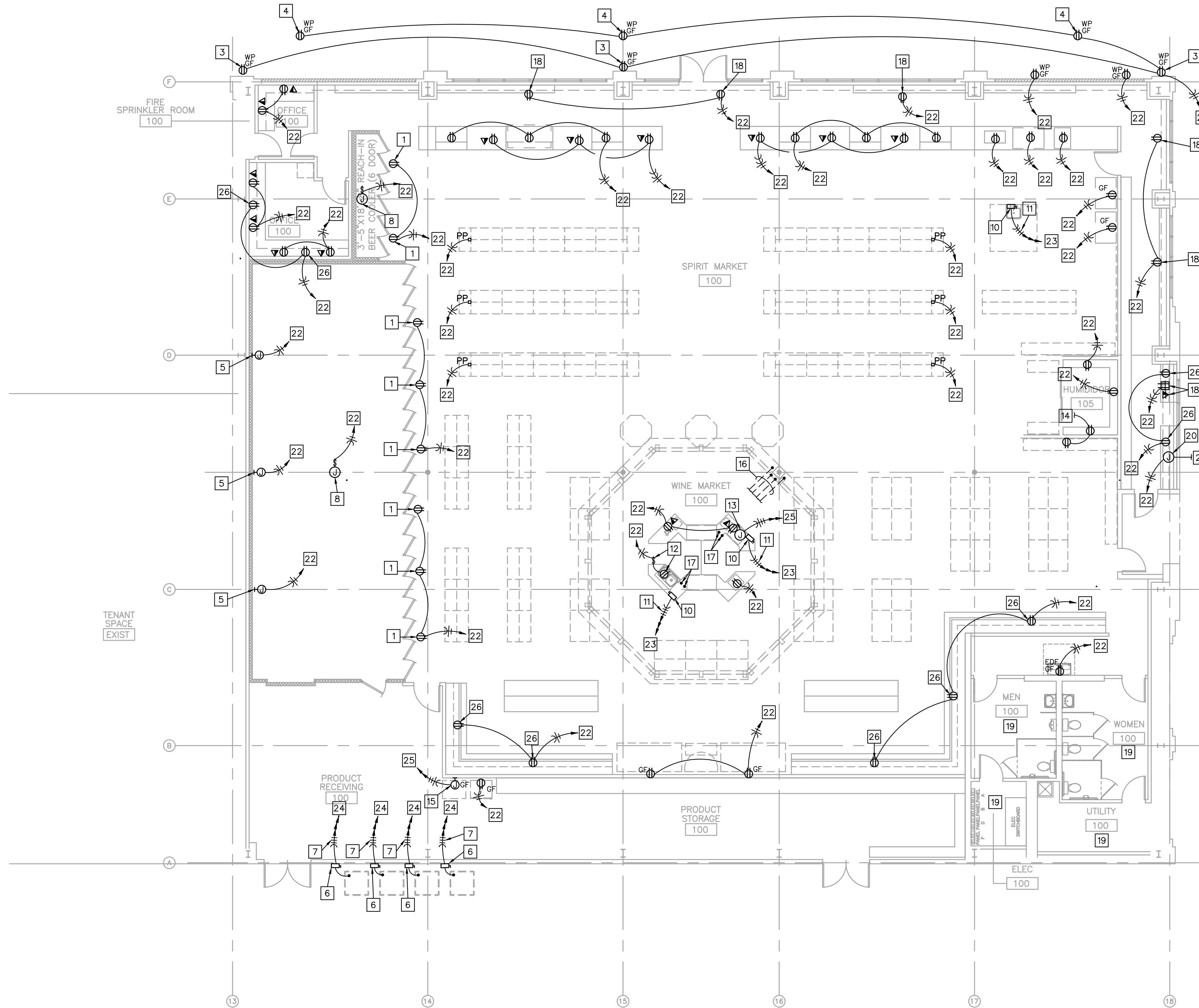
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P200

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POWER FLOOR PLAN
1/8" = 1'-0"
NORTH

POWER PLAN NOTES

1. INSTALL RECEPTACLE ABOVE COOLER. COORDINATE LOCATION WITH OWNER.
2. MOUNT RECEPTACLE ABOVE SHELVING. VERIFY EXACT HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
3. INSTALL RECEPTACLE AT PARAPET FOR HOLIDAY LIGHTS. VERIFY EXACT HEIGHT AND LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
4. INSTALL RECEPTACLE ON FACIA FOR HOLIDAY LIGHTS. VERIFY EXACT HEIGHT AND LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
5. J-BOX FOR CONNECTION OF COOLER EVAPORATOR. COORDINATE LOCATION WITH COOLER SUPPLIER PRIOR TO INSTALLATION.
6. 30A/3P, NON-FUSED, NEMA 3R DISCONNECT SWITCH FOR COOLER CONDENSER. COORDINATE LOCATION WITH COOLER SUPPLIER PRIOR TO INSTALLATION.
7. 3/4" CONDUIT WITH 3-#10 (CU) AND 1-#10 (CU) GROUND WIRE.
8. J-BOX FOR CONNECTION OF COOLER ACCESSORIES. COORDINATE LOCATION WITH COOLER SUPPLIER PRIOR TO INSTALLATION.
9. INSTALL OUTLET BOX FOR WIRING DEVICE AT 48" AFF.
10. 60A/3P, NON-FUSED, NEMA 3R DISCONNECT SWITCH FOR INSTANTANEOUS WATER HEATER. COORDINATE LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
11. 1-1/4" CONDUIT WITH 3-#6 (CU) AND 1-#10 (CU) GROUND WIRE.
12. INSTALL RECEPTACLE AND SWITCH FOR DISPOSAL BELOW COUNTER. INSTALL IN AN ACCESSIBLE MANNER.
13. J-BOX FOR DISHWASHER. VERIFY EXACT PLUG CONFIGURATION WITH EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
14. TO LIGHTS IN HUMIDOR. SEE SHEET E2.1 FOR CONTINUATION.
15. J-BOX INSTALLED ON WALL FOR CONNECTION OF ICE MACHINE. VERIFY EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
16. (4) 1-1/4" CONDUITS ROUTED IN FLOOR TRENCH FOR EQUIPMENT IN WINE TASTING. SEE NOTE #17 FOR CONTINUATION.
17. STUB (2) 1-1/4" CONDUITS UP IN CASEWORK. (1) FOR WATER HEATER AND (1) FOR RECEPTACLES.
18. INSTALL SHOW-WINDOW RECEPTACLES ABOVE WINDOW WITHIN 12" OF WINDOW OPENINGS.
19. NO WORK IN THIS AREA.
20. J-BOX FOR FUTURE CONNECTION.
21. 1" PVC FOR CONNECTION OF FUTURE EQUIPMENT.
22. ROUTE HOMERUN TO EXISTING 120/208V, 3-PHASE, 4-WIRE PANEL AND CONNECT TO SPARE 20A/1P CIRCUIT BREAKER MADE AVAILABLE DUE TO DEMOLITION. IF SPARE DOES NOT EXIST, INSTALL (1) NEW 20A/1P CIRCUIT BREAKER IN EXISTING SPACE.
23. ROUTE HOMERUN TO EXISTING 120/208V, 3-PHASE, 4-WIRE PANEL AND INSTALL (1) NEW 60A/3P CIRCUIT BREAKER IN EXISTING SPACE MADE AVAILABLE DUE TO DEMOLITION.
24. ROUTE HOMERUN TO EXISTING 120/208V, 3-PHASE, 4-WIRE PANEL AND INSTALL (1) NEW 30A/3P CIRCUIT BREAKER IN EXISTING SPACE MADE AVAILABLE DUE TO DEMOLITION.
25. ROUTE HOMERUN TO EXISTING 120/208V, 3-PHASE, 4-WIRE PANEL AND INSTALL (1) NEW 20A/2P CIRCUIT BREAKER IN EXISTING SPACE MADE AVAILABLE DUE TO DEMOLITION.
26. INSTALL OUTLET BOX FOR WIRING DEVICE AT 96" AFF.

ELECTRICAL GENERAL NOTES

- A) SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURES.
- B) COORDINATE NEMA RATING OF APPLIANCE PLUGS WITH THE EQUIPMENT SPECIFICATIONS.
- C) ALL RECEPTACLES WITHIN 6' OF WATER BEARING FIXTURES, EXTERIOR OUTLETS AND ALL OUTLETS IN KITCHEN AREAS SHALL BE GFI STYLE OR THE CIRCUIT SERVING THOSE DEVICES SHALL BE PROTECTED BY MEANS OF A GFI CIRCUIT BREAKER.
- D) OUTLET AND SWITCH BOXES INSTALLED IN RATED WALLS SHALL BE PROVIDED WITH UL LISTED PUTTY PADS TO PROTECT THE RATING OF THE WALL.
- E) CONNECT ALL NIGHT LIGHT, EXIT LIGHT AND EMERGENCY LIGHT FIXTURES TO UNSWITCHED HOT-LEG OF NEAREST 120V LIGHTING CIRCUIT IN SAME AREA.
- F) ALL BRANCH CIRCUITS SERVING OUTLETS IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, BEDROOMS, CLOSETS, HALLWAYS, AND SIMILAR ROOMS SHALL BE PROTECTED BY A LISTED ARC-FAULT INTERRUPTER IN ACCORDANCE WITH ARTICLE 210-12 OF THE 2011 NEC.
- G) CONDUIT INSTALLED IN AREAS OF BUILDINGS OR PORTIONS OF BUILDINGS WHERE MEDICAL CARE IS PROVIDED SHALL BE MEDICAL GRADE CONDUIT AND THE INSTALLATION SHALL CONFORM WITH CHAPTER 517 OF THE NEC (HEALTH CARE FACILITIES).



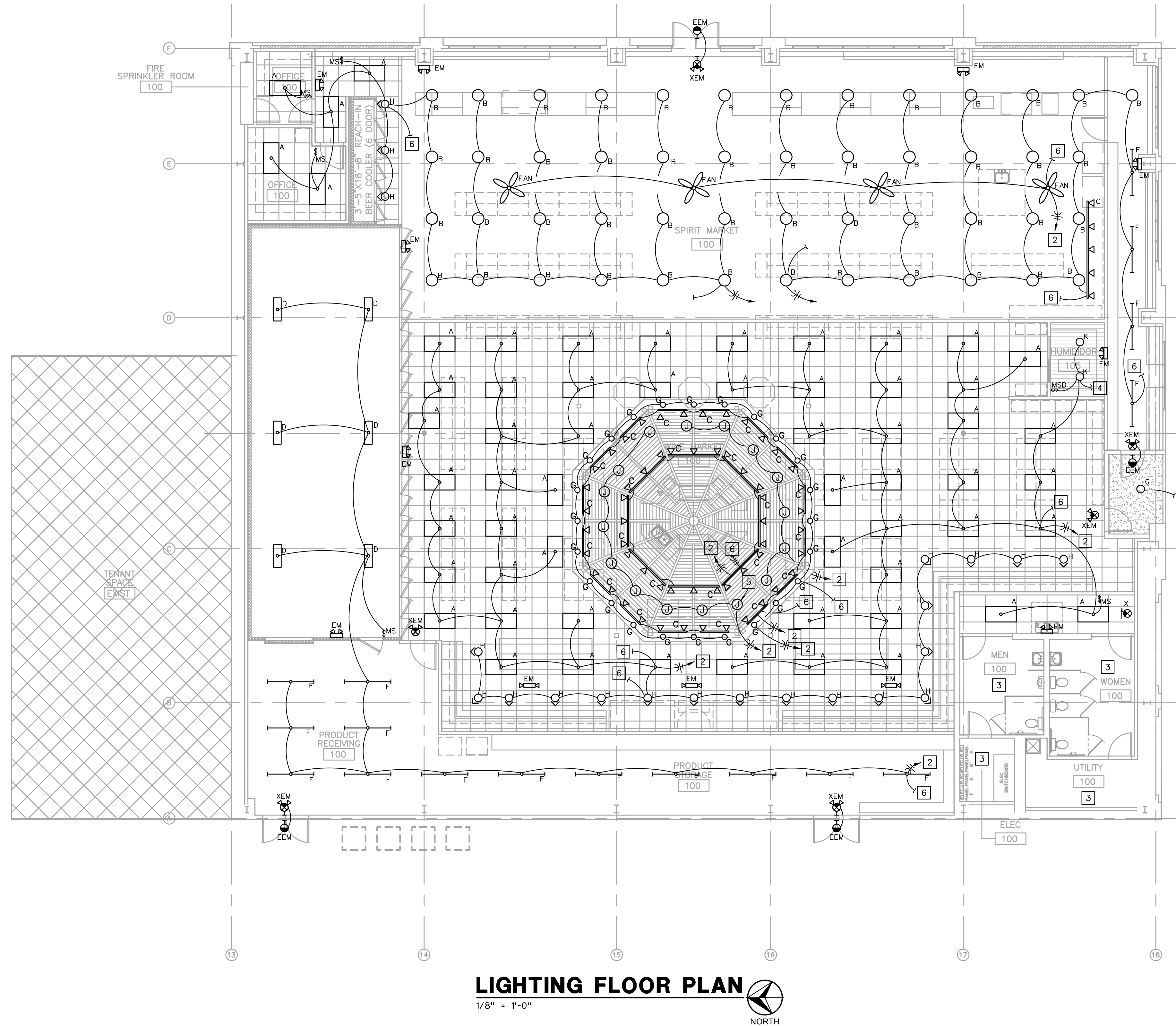
MACADOODLES
1499 MARKET STREET
LEE'S SUMMIT, MISSOURI



JOB NO.:	22035
DATE:	04/13/2022
REVISIONS:	
DESIGNED BY:	GEG
DRAWN BY:	GEG
CHECKED BY:	GEG
SHEET NO.	

E200

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LIGHTING PLAN NOTES

- CONNECT TO EXISTING BUILDING LIGHTING CIRCUIT AND CONTROL IN SIMILAR MANNER.
- ROUTE HOMERUN TO EXISTING 120/208V, 3-PHASE, 4-WIRE PANEL AND CONNECT TO SPARE 20A/1P CIRCUIT BREAKER MADE AVAILABLE DUE TO DEMOLITION.
- NO WORK IN THIS AREA UNLESS NOTED OTHERWISE.
- TO RECEPTACLE IN HUMIDOR. SEE SHEET E200 FOR CONTINUATION.
- J-BOX FOR CONNECTION OF (4) 4' LED STRIP LIGHTS BEHIND PANEL. VERIFY EXACT LOCATION WITH TENANT/ARCHITECT PRIOR TO INSTALLATION. (TYPICAL 16).
- VERIFY EXACT LOCATION OF SWITCHES WITH TENANT/ARCHITECT. CONNECT TO SWITCH AS REQUESTED BY TENANT/ARCHITECT.

ELECTRICAL GENERAL NOTES

- SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURES.
- COORDINATE NEMA RATING OF APPLIANCE PLUGS WITH THE EQUIPMENT SPECIFICATIONS.
- ALL RECEPTACLES WITHIN 6' OF WATER BEARING FIXTURES, EXTERIOR OUTLETS AND ALL OUTLETS IN KITCHEN AREAS SHALL BE GFI STYLE OR THE CIRCUIT SERVING THOSE DEVICES SHALL BE PROTECTED BY MEANS OF A GFI CIRCUIT BREAKER.
- OUTLET AND SWITCH BOXES INSTALLED IN RATED WALLS SHALL BE PROVIDED WITH UL LISTED PUTTY PADS TO PROTECT THE RATING OF THE WALL.
- CONNECT ALL NIGHT LIGHT, EXIT LIGHT AND EMERGENCY LIGHT FIXTURES TO UNSWITCHED HOT-LEG OF NEAREST 120V LIGHTING CIRCUIT IN SAME AREA.
- ALL BRANCH CIRCUITS SERVING OUTLETS IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, BEDROOMS, CLOSETS, HALLWAYS, AND SIMILAR ROOMS SHALL BE PROTECTED BY A LISTED ARC-FAULT INTERRUPTER IN ACCORDANCE WITH ARTICLE 210-12 OF THE 2011 NEC.
- CONDUIT INSTALLED IN AREAS OF BUILDINGS OR PORTIONS OF BUILDINGS WHERE MEDICAL CARE IS PROVIDED SHALL BE MEDICAL GRADE CONDUIT AND THE INSTALLATION SHALL CONFORM WITH CHAPTER 517 OF THE NEC (HEALTH CARE FACILITIES).



MACADOODLES
1499 MARKET STREET
LEE'S SUMMIT, MISSOURI



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E201

PANEL <u>A</u> (EXISTING)		<u>120/208</u> VOLTS		■ <u>200</u> A. BUS		□ SERVICE ENTRANCE				
		<u>3</u> PHASE		■ <u>200</u> A. MAIN BREAKER		□ FEED THRU LUGS				
SECTION <u>1</u> OF <u>1</u>		<u>4</u> WIRE		■ MAIN LUGS ONLY		□ SUBFEED LUGS				
CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA	Ø	CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA
1	EXISTING REC	20	1	540	A 2	SPARE	20	1	-	
3	LIGHTS	20	1	1000	B 4	POS	20	1	1000	
5	LIGHTS	20	1	1200	C 6	POS	20	1	1000	
7	LIGHTS	20	1	1000	A 8	POS	20	1	1000	
9	LIGHTS	20	1	1000	B 10	POS	20	1	1000	
11	LIGHTS	20	1	1400	C 12	DISPLAY CASE	20	1	800	
13	SPARE	20	1	-	A 14	SODA	20	1	800	
15	SPARE	20	1	-	B 16	SPARE	20	1	-	
17	FANS	20	1	1500	C 18	SPARE	20	1	-	
19	SPARE	20	1	-	A 20	SPARE	20	1	-	
21	SPARE	20	1	-	B 22	SPARE	20	1	-	
23	COOLER	20	1	1000	C 24	SPARE	20	1	-	
25	POPCORN	20	1	1000	A 26	SPARE	30	2	-	
27	EXIST FIRE ALARM	20	1	250	B 28					
29	COFFEE	20	1	1500	C 30	SPARE	20	1	-	
31	-	20	1	-	A 32	SPARE	20	1	-	
33	-	20	1	-	B 34	SPARE	20	1	-	
35	EXISTING WATER HEATER	30	2	2250	C 36	SPARE	20	1	-	
37				2250	A 38	SPARE	20	1	-	
39	EXISTING WATER HEATER	30	2	2250	B 40	SPARE	20	1	-	
41				2250	C 42	SPARE	20	1	-	
TOTAL CONNECTED LOAD				DEMAND FACTORS:				NEUTRAL BUS		
- VA				LIGHTS @ <u>125</u> % =		<u>9750</u> VA		<u>100</u> %		
				RECEPTS @ <u>100</u> % =		<u>10000</u> VA		POWER FACTOR		
■ SURFACE MOUNTED				RECEPTS @ <u>50</u> % =		<u>1220</u> VA		<u>100</u> %		
□ FLUSH MOUNTED				OTHER @ <u>100</u> % =		<u>21000</u> VA		DEMAND CURRENT		
				TOTAL DEMAND LOAD		<u>42570</u> VA		<u>118.3</u> AMPS		

PANEL <u>D</u> <u>120/208</u> VOLTS				■ <u>200</u> A. BUS				□ SERVICE ENTRANCE			
<u>3</u> PHASE				■ <u>200</u> A. MAIN BREAKER				□ FEED THRU LUGS			
SECTION <u>1</u> OF <u>1</u> <u>4</u> WIRE				■ MAIN LUGS ONLY				□ SUBFEED LUGS			
CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA	Ø	CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA	
1	SPARE	20	1	-	A 2	SPARE	20	1	-		
3	EDP/GF	20	1	1000	B 4	SPARE	20	1	-		
5	INSTANTANEOUS WATER HEATER	60	3	5333	C 6	INSTANTANEOUS WATER HEATER	60	3		5333	
7				5334	A 8				5334		
9				5333	B 10				5333		
11	DISHWASHER	20	2	1664	C 12	ICE MACHINE	20	2		1250	
13				1664	A 14				1250		
15	SPARE	20	1	-	B 16	SPARE	20	1	-		
17	TOUCH SCREEN	20	1	500	C 18	SPACE	-	-	-		
19	DISPOSAL	20	1	1340	A 20	SPARE	20	1	-		
21	WINE CHILLER	20	1	500	B 22	SPARE	20	1	-		
23	LIGHTS	20	1	650	C 24	COOLER	20	1	1500		
25	LIGHTS	20	1	800	A 26	HUMIDOR HUMIDIF	20	1	800		
27	LIGHTS	20	1	500	B 28	HUMIDOR AC	20	1	1000		
29	SPACE	-	-	-	C 30	HUMIDOR REC/LTS	20	1	500		
31	SPACE	-	-	-	A 32	EXISTING AC UNIT	30	3		-	
33	SPARE	20	2	-	B 34				-		
35				-	C 36				-		
37	EXISTING HEATER	100	3	-	A 38	EXISTING HEATER	90	3		-	
39				-	B 40				-		
41				-	C 42				-		
TOTAL CONNECTED LOAD				DEMAND FACTORS:			LIGHTS @ <u>125</u> % = <u>3938</u> VA		NEUTRAL BUS <u>100</u> %		
- VA				RECEPTS @ <u>100</u> % = <u>10000</u> VA		POWER FACTOR <u>100</u> %					
■ SURFACE MOUNTED				RECEPTS @ <u>50</u> % = <u>504</u> VA							
□ FLUSH MOUNTED				OTHER @ <u>100</u> % = <u>53600</u> VA		DEMAND CURRENT <u>189.0</u> AMP					
				TOTAL DEMAND LOAD = <u>68042</u> VA							

PANEL <u>B</u> (EXISTING)		<u>120/208</u> VOLTS		■ <u>200</u> A. BUS		□ SERVICE ENTRANCE				
		<u>3</u> PHASE		■ <u>200</u> A. MAIN BREAKER		□ FEED THRU LUGS				
SECTION <u>1</u> OF <u>1</u>		<u>4</u> WIRE		■ MAIN LUGS ONLY		□ SUBFEED LUGS				
CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA	Ø	CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA
1	SPARE	20	1	-	A 2	2	COOLER ACCESSORI	20	1	500
3	BAGGED ICE	20	1	1000	B 4	4	SPARE	20	1	-
5	EXISTING BLDG LTS	20	1	1000	C 6	6	SPARE	20	1	-
7	REACH-IN COOLER COND	30	3	2700	A 8	8	WALK-IN COOLER COND	30	3	2700
2700				B 10	10	2700				
2700				C 12	12	2700				
13	SPARE	20	1	-	A 14	14	WALK-IN COOLER COND	30	3	2700
15	SPARE	20	1	-	B 16	16				2700
17	SPARE	20	1	-	C 18	18				2700
19	SPARE	20	1	-	A 20	20	WALK-IN COOLER COND	30	3	2700
21	SPARE	20	1	-	B 22	22				2700
23	SPARE	20	1	-	C 24	24				2700
25	REACH-IN EVAP	20	1	800	A 26	26	WALK-IN EVAP	20	1	800
27	WALK-IN LTS	20	1	500	B 28	28	WALK-IN EVAP	20	1	800
29	BAGGED ICE	20	1	1000	C 30	30	WALK-IN EVAP	20	1	800
31	SPARE	20	1	-	A 32	32	SPARE	20	1	-
33	SPARE	20	1	-	B 34	34	SPARE	20	1	-
35	SPARE	20	1	-	C 36	36	SPARE	20	1	-
37	EXISTING HVAC	70	3	-	A 38	38	SPARE	20	1	-
39				-	B 40	40	SPARE	20	1	-
41				-	C 42	42	SPARE	20	1	-
TOTAL CONNECTED LOAD				DEMAND FACTORS:		LIGHTS @ <u>125</u> % = <u>1625</u> VA		NEUTRAL BUS <u>100</u> %		
- VA				RECEPTS @ <u>100</u> % = <u>2540</u> VA		POWER FACTOR <u>100</u> %				
■ SURFACE MOUNTED				RECEPTS @ <u>50</u> % = <u>-</u> VA						
□ FLUSH MOUNTED				OTHER @ <u>100</u> % = <u>57700</u> VA		DEMAND CURRENT <u>171.8</u> AMP				
				TOTAL DEMAND LOAD = <u>61865</u> VA						

PANEL <u>F</u> <u>120/208</u> VOLTS		■ <u>200</u> A. BUS		☐ SERVICE ENTRANCE						
(EXISTING)		<u>3</u> PHASE		■ <u>200</u> A. MAIN BREAKER						
(NOT IN SCOPE)		<u>4</u> WIRE		■ MAIN LUGS ONLY						
SECTION <u>1</u> OF <u>1</u>				☐ SUBFEED LUGS						
CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA	Ø	CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA
1	SPARE	20	1	-	A 2	SPARE	20	1	-	
3	SPARE	20	1	-	B 4	SPARE	20	1	-	
5	SPARE	20	1	-	C 6	SPARE	20	1	-	
7	SPARE	20	1	-	A 8	SPARE	20	1	-	
9	SPARE	20	1	-	B 10	SPARE	20	1	-	
11	SPARE	20	1	-	C 12	SPARE	20	1	-	
13	SPARE	20	1	-	A 14	SPARE	20	1	-	
15	SPARE	20	1	-	B 16	SPARE	20	1	-	
17	SPARE	20	1	-	C 18	SPARE	20	1	-	
19	SPARE	20	1	-	A 20	SPARE	20	1	-	
21	SPACE	-	-	-	B 22	SPARE	20	1	-	
23	SPACE	-	-	-	C 24	SPARE	20	1	-	
25	SPACE	-	-	-	A 26	SPARE	20	1	-	
27	SPACE	-	-	-	B 28	SPARE	20	1	-	
29	SPACE	-	-	-	C 30	SPARE	20	1	-	
31	SPACE	-	-	-	A 32	EXISTING SEWAGE GRINDER	20	2	-	
33	SPACE	-	-	-	B 34				-	
35	SPARE	20	1	-	C 36	SPARE	20	1	-	
37	SPARE	40	3	-	A 38	SPARE	60	3	-	
39				-	B 40				-	
41				-	C 42				-	
TOTAL CONNECTED LOAD		DEMAND FACTORS:		LIGHTS @ <u>125</u> % = <u>-</u> VA		NEUTRAL BUS <u>100</u> %				
- <u> </u> VA				RECEPTS @ <u>100</u> % = <u>-</u> VA		POWER FACTOR				
☒ SURFACE MOUNTED				RECEPTS @ <u>50</u> % = <u>-</u> VA		<u>100</u> %				
☐ FLUSH MOUNTED				OTHER @ <u>100</u> % = <u>-</u> VA		DEMAND CURRENT				
				TOTAL DEMAND LOAD = <u>-</u> VA		- <u> </u> AMP				

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ELECTRICAL SPECIFICATION

- CONTRACTOR SHALL COORDINATE INSTALLATION REQUIREMENTS AND SCHEDULING OF ALL WORK WITH BUILDING REPRESENTATIVE AND GENERAL CONTRACTOR.
- INSTALLATION SHALL COMPLY WITH 2017 EDITION OF N.E.C. AND LOCAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL BE LICENSED TO PERFORM WORK IN MUNICIPALITY WHERE PROJECT IS LOCATED.
- ALL WIRING SHALL BE INSTALLED IN CONDUIT. EMT CONDUIT WITH SET SCREW FITTINGS MAY BE UTILIZED WHERE PERMITTED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2".
- CONDUIT INSTALLED IN AREAS OF BUILDINGS OR PORTIONS OF BUILDINGS WHERE MEDICAL CARE IS PROVIDED SHALL BE MEDICAL GRADE CONDUIT AND THE INSTALLATION SHALL CONFORM WITH CHAPTER 517 OF THE NEC (HEALTH CARE FACILITIES).
- ALL WIRING SHALL BE COPPER WITH 600 VOLT INSULATION AND COLOR CODED. ALUMINUM WIRING SHALL ONLY BE USED FOR FEEDERS FROM TRANSFORMER TO METER CENTER.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMIT AND INSPECTION FEES.
- MC CABLE MAY BE INSTALLED WHERE PERMITTED BY CODE CONCEALED IN WALLS AND FOR CONNECTIONS TO LIGHT FIXTURES (MAXIMUM LENGTH 6'-0"). CONDUCTORS SHALL BE MINIMUM #12 GAUGE AND COPPER. MC CABLE SHALL NOT BE USED FOR HOMERUNS.
- INSTALL BLANK COVER PLATE ON ALL PULL BOXES AND JUNCTION BOXES.
- TYPEWRITTEN PANELBOARD DIRECTORY SHALL BE PROVIDED FOR PANELBOARD AND CORRECTLY FILLED OUT.
- ALL WIRING DEVICES SHALL BE RATED 20 AMP, OR AS NOTED.
- ALL NEW BRANCH CIRCUIT CONDUITS SHALL BE INSTALLED CONCEALED ABOVE LAY-IN CEILING OR IN WALLS.
- CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING OF ALL CONDUITS TO NEW EQUIPMENT.
- VOICE/DATA AND THERMOSTAT OUTLET BOXES SHALL BE PROVIDED AND INSTALLED WITH 3/4" CONDUIT STUBBED UP OUT TOP OF BOX TO ABOVE ACCESSIBLE CEILING. PROVIDE BUSHING ON END OF CONDUIT.
- VOICE/DATA SYSTEMS, ASSOCIATED WIRING, AND DEVICES TO BE PROVIDED BY OWNER.
- DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, NEMA 1 FOR INDOOR AND NEMA 3R FOR OUTDOOR INSTALLATIONS. MANUFACTURED BY SQUARE D, ITE/SIEMENS, GE, OR CUTLER-HAMMER.
- FURNISH MATERIALS AND LABOR FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION.
- MATERIAL AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE 'UL' LABELS AS REQUIRED.
- PROVIDE LIGHT FIXTURES AS SCHEDULED OR SELECTED BY OWNER WITH ALL REQUIRED TRIM AND ACCESSORIES FOR A COMPLETE WORKING AND CODE COMPLIANT INSTALLATION. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION OF THE FIXTURES.
- ALL LIGHT FIXTURES AND DEVICES MOUNTED IN CEILING SHALL BE BRACED TO RESIST SEISMIC FORCES IN ACCORDANCE WITH IBC, NEC, AND LOCAL AUTHORITY HAVING JURISDICTION.
- EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE PROVIDED WITH BATTERY BACK-UP FOR MINIMUM OF (90) MINUTES. EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE CONNECTED TO HOT LEG OF CIRCUIT, NOT SWITCHED.
- E.C. SHALL VERIFY RATINGS, LOCATIONS, AND CONNECTIONS OF ALL EQUIPMENT PROVIDED BY OTHERS AND INSTALLED AND/OR CONNECTED BY THE ELECTRICAL CONTRACTOR.
- E.C. SHALL PROVIDE AND INSTALL SMOKE AND FIRE STOPS AT ALL CONDUIT PENETRATIONS OF SMOKE AND FIRE-RATED WALLS AND CEILINGS.
- CAULK AND SEAL ALL RACEWAY PENETRATIONS OF EXTERIOR OR DEMISING WALLS.
- THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN THE INTEGRITY OF ALL FIRE RATED AND SOUND RATED ASSEMBLIES.
- E.C. SHALL COORDINATE LOCATIONS OF ALL DEVICES, SUCH AS LIGHT SWITCHES, CONVENIENCE RECEPTACLES, TELEVISION OUTLETS, AND TELEPHONE OUTLETS WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-IN.
- NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANELBOARD SHALL MATE/MATCH PANEL CONSTRUCTION AND AIC RATING.
- RETURN AIR SMOKE DETECTORS AT ROOFTOOP UNITS SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR, WIRED BY THE ELECTRICAL CONTRACTOR AND INTEGRATED INTO THE FIRE ALARM SYSTEM. WHERE MULTIPLE HVAC UNIT FANS SHARE A COMMON RETURN AIR PLENUM (WITH A COMBINED RA VOLUME IN EXCESS OF 2,000 CFM), ALL RTU AND FCU FANS SHALL AUTOMATICALLY SHUT DOWN UPON DETECTION OF SMOKE AT ANY SINGLE SMOKE DETECTOR. PROVIDE ALL RELAYS AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION.
- THE COMPONENTS OF THE ELECTRICAL SYSTEM SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE THEREOF EITHER FOR BENEFICIAL USE OR FINAL ACCEPTANCE, WHICHEVER IS EARLIER, AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP.

PLUMBING SPECIFICATION

- INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2018 (INTERNATIONAL) (UNIFORM) PLUMBING CODE, NFPA 90A AND 101 AND ALL STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
- ALL WATER BEARING PIPING SHALL BE SLOPED FOR DRAINAGE WITH BALL DRAIN VALVES AT LOW POINTS.
- DRAINAGE PIPING SHALL BE SLOPED IN ACCORDANCE WITH CODE, BUT NOT LESS THAN 1/8" PER FOOT FOR 3" AND LARGER PIPING AND 1/4" PER FOOT FOR 2-1/2" AND SMALLER PIPING. ALL INVERT ELEVATIONS SHALL BE COORDINATED WITH THE STRUCTURAL FOOTINGS.
- CAULK AND SEAL ALL DUCT AND PIPING PENETRATIONS OF EXTERIOR OR DEMISING WALLS.
- THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN THE INTEGRITY OF ALL FIRE RATED AND SOUND RATED ASSEMBLIES.
- ABOVE GROUND WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT CEMENT JOINTS, EXCEPT USE STANDARD WEIGHT NO-HUB CAST IRON IN AIR PLENUMS. VENT PIPING MAY BE SCHEDULE 40 GALVANIZED STEEL WITH SCREWED JOINTS. PAINT ALL EXTERIOR PIPING WITH UV RESISTANT PAINT.
- ABOVE GROUND WATER PIPING SHALL BE COPPER OR CROSS LINKED POLYETHYLENE (PEX).
- SERVICE VALVES FOR WATER PIPING SYSTEMS UP THRU 2" SHALL BE 1/4 TURN, 150 LB. BALL VALVE WITH BRONZE CHROME PLATED BALL AND TFE SEATS, NIBCO S-585-70.
- COPPER DOMESTIC WATER PIPING SHALL BE INSULATED WITH 1" FIBERGLASS WITH ALL SERVICE JACKET OR COMPARABLE UNICELLULAR INSULATION WITH SMOKE/FLAME RATING OF 25/50. WHEN INSTALLED WITHIN A CHASE ALONG AN EXTERIOR WALL, THE INSULATION SHALL BE 1-1/2" FIBERGLASS AND THE PIPING SHALL BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING WALL INSULATION.
- PROVIDE PLUMBING FIXTURES AS SCHEDULED OR SELECTED BY OWNER WITH ALL REQUIRED TRIM AND ACCESSORIES FOR A COMPLETE WORKING AND CODE COMPLIANT INSTALLATION. PROVIDE STOP VALVES AND WATER HAMMER ARRESTORS, SIZED AS INDICATED OR PER MANUFACTURER FOR EACH FIXTURE OR EACH GROUP OF FIXTURES. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION OF THE FIXTURES.
- TEST AND CLEAN PIPING SYSTEMS PER INDUSTRY STANDARDS. PRESSURE TEST OF PRESSURE PIPING SHALL BE AT 1-1/2 TIMES THE ANTICIPATED OPERATING PRESSURE, BUT NOT LESS THAN 50 PSIG FOR 2 HOURS. NON-PRESSURIZED SYSTEMS SHALL BE TESTED WITH 10" WATER COLUMN ABOVE NORMAL OPERATING CONDITIONS OR 5 PSI FOR 2 HOURS. THERE SHALL BE NO MEASURABLE DROP DURING THE TEST PERIOD.

WATER HAMMER ARRESTOR SCHEDULE					
MARK NO.	MANUFACTURER	MODEL NO.	PDI UNIT RATING	FIXTURE UNIT CAPACITY	REMARKS
AA	SIoux CHIEF	660 SERIES	AA	4 (SINGLE FIXT)	X
A	SIoux CHIEF	652	A	1 - 11	X
B	SIoux CHIEF	653	B	12 - 32	X
C	SIoux CHIEF	654	C	33 - 60	X
D	SIoux CHIEF	655	D	61 - 113	X
X	X	X	X	X	X

NOTES:

- INSTALL IN AN ACCESSIBLE LOCATION IN ACCORDANCE WITH THE PLUMBING CODE.

WH INSTANTANEOUS WATER HEATER SCHEDULE (ELECTRIC)											
MARK NO.	MANUFACTURER	MODEL NO.	TYPE	GPM FLOW RATE (MIN.)	TEMP RISE ° F	GPM FLOW RATE (DESIGN)	ELECTRICAL				REMARKS
1	EEMAX	EX-180T2T	TANKLESS	.7	61.5	2.0	KW	VOLT	Ø	HZ	2,4

NOTES:

- PROVIDE ONE (1) 50-AMP CIRCUIT.
- SEE PIPING SCHEMATIC FOR ACCESSORIES NEEDED.

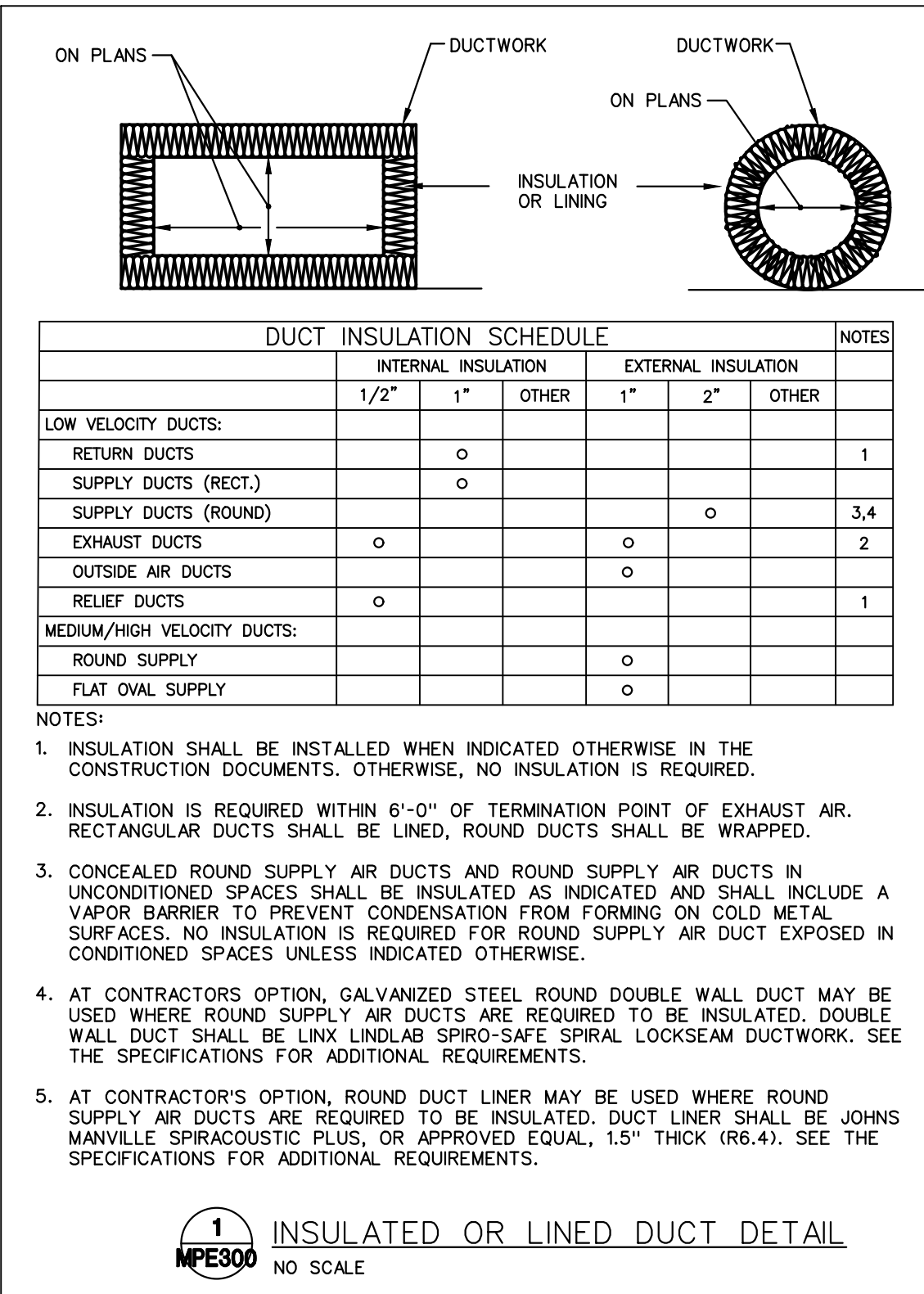
MECHANICAL SPECIFICATION

- INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL MECHANICAL AND FUEL GAS CODES, NFPA 90A AND 101 AND ALL STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
- COOLING EQUIPMENT LOCATED WHERE DAMAGE FROM OVERFLOW COULD OCCUR AND ELSEWHERE AS INDICATED, SHALL BE MOUNTED IN SECONDARY CONTAINMENT PANS WITH HIGH WATER ALARM SENSOR TO SHUT DOWN THE EQUIPMENT. THE DRAIN PAN SHALL BE PIPED TO FLOOR DRAIN, TO EXTERIOR OR ELSEWHERE AS SHOWN, MINIMUM SIZE SHALL BE 3/4".
- COORDINATE EXACT LOCATIONS AND ORIENTATION OF EQUIPMENT WITH ARCHITECTURAL AND STRUCTURAL REQUIREMENTS. EQUIPMENT SHALL BE SCREENED IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS AND AS SHOWN ON ARCHITECTURAL DRAWINGS.
- DUCTWORK FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS.
- ALL DUCTWORK SHALL BE SHEET METAL, CONSTRUCTED TO SMACNA STANDARDS, MINIMUM OF 2" WG PRESSURE CLASS AND SEAL CLASS 'C' MINIMUM. ALL LONGITUDINAL AND TRANSVERSE JOINTS TO BE SEALED. EXCEPT AS OTHERWISE NOTED. ROUND AND FLEX DUCT CONNECTIONS SHALL BE MADE WITH SPIN COLLARS WITH EXTRACTORS AND VOLUME DAMPERS.
- RECTANGULAR DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL INCLUDE AN ALLOWANCE FOR 1" DUCT LINER IN LOW VELOCITY DUCTS WHERE APPLICABLE. CONCEALED ROUND DUCTS SHALL BE INSULATED WITH 2" DUCT WRAP. EXPOSED ROUND DUCTS DO NOT NEED TO BE INSULATED.
- PROVIDE FLEXIBLE FABRIC CONNECTORS AT ALL DUCTWORK CONNECTIONS TO ROTATING EQUIPMENT. CONNECTORS EXPOSED TO SUNLIGHT SHALL BE MADE OF UV RESISTANT MATERIAL.
- TRAP ALL CHILLED CONDENSATE DRAINS AS DETAILED OR AS REQUIRED. PROVIDE A TRAP DEPTH 1" GREATER THAT SYSTEM FAN DEVELOPED STATIC PRESSURE. INSURE AND CERTIFY THAT CONDENSATE DRAINS ARE POSITIVELY SLOPED AT 1"/20' MINIMUM IN DIRECTION OF FLOW.
- CAULK AND SEAL ALL DUCT AND PIPING PENETRATIONS OF EXTERIOR OR DEMISING WALLS. THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN THE INTEGRITY OF ALL FIRE RATED AND SOUND RATED ASSEMBLIES.
- REFRIGERANT PIPING SHALL BE TYPE 'ACR' COPPER WITH BRAZED JOINTS OR MANUFACTURER'S STANDARD PRE-CHARGED LINE SETS WITH COMPRESSION JOINTS.
- ALL REFRIGERANT PIPING SHALL BE SIZED AND WITH ALL ACCESSORIES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
- REFRIGERANT SUCTION LINES TO BE INSULATED WITH 1" UNICELLULAR INSULATION, ALL JOINTS SEALED. INSULATION SHALL BE 25/50 SMOKE AND FIRE RATED. PAINT ALL EXTERIOR INSULATION WITH UV RESISTANT PAINT.
- TEST AND CLEAN PIPING SYSTEMS PER INDUSTRY STANDARDS. PRESSURE TEST OF PRESSURE PIPING SHALL BE AT 1-1/2 TIMES THE ANTICIPATED OPERATING PRESSURE, BUT NOT LESS THAN 50 PSIG FOR 2 HOURS. NON-PRESSURIZED SYSTEMS SHALL BE TESTED WITH 10" WATER COLUMN ABOVE NORMAL OPERATING CONDITIONS OR 5 PSI FOR 2 HOURS. THERE SHALL BE NO MEASURABLE DROP DURING THE TEST PERIOD.
- TEST AND BALANCE ALL SYSTEMS.
- DENLAR D1000 RANGE HOOD IS A PRE-ENGINEERED FIRE SUPPRESSION RANGE HOOD DESIGNED FOR USE WITH DOMESTIC RANGES. IT IS ICC/ES PMG LISTED PRODUCT.

FIXTURE BRANCH SCHEDULE

FIXTURE	WASTE	VENT	COLD	HOT
Water Closet (ft)	4"	2"	1/2"	----
Water Closet (fv)	4"	2"	1"	----
Urinal	2"	1 1/2"	3/4"	----
Lavatory	1 1/2"	1 1/2"	1/2"	1/2"
Sink	2"	1 1/2"	1/2"	1/2"
Triple Sink	2"	1 1/2"	(2) 1/2"	(2) 1/2"
Shower, Tub	2"	1 1/2"	1/2"	1/2"
Water Fountain	1 1/2"	1 1/2"	1/2"	----
Janitor Sink (ftr)	3"	2"	3/4"	3/4"
Janitor Sink (wall)	2"	1 1/2"	1/2"	1/2"
Floor Drain	2"	1 1/2"	----	----
Floor Sink	3"	2"	----	----
Eapt Floor Drain	3"	2"	----	----
Hub Drain	2"	1 1/2"	----	----
Dishwasher	2"	1 1/2"	----	1/2"
Washer Box	2"	1 1/2"	----	1/2"
Ice Maker	----	----	1/2"	1/2"
FPWH, HB	----	----	3/4"	----

- Minimum waste or vent size below slab on grade shall be 2".
- Size as shown on drawings and diagrams, but not less than listed.



PLUMBING FIXTURE SCHEDULE

- INSTALL PLUMBING FIXTURES AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S DRAWINGS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WATER-CONSERVING FIXTURES AND APPURTENANCES IF/AS REQUIRED BY LOCAL AUTHORITIES. CONFIRM ALL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS. CAULK FIXTURES TO WALLS/FLOORS. SET COUNTER MOUNTED SINKS AND LAVATORIES IN A BED OF CAULK. THE SPECIFIED PLUMBING FIXTURES, OR APPROVED EQUALS, SHALL BE USED UNLESS OTHERWISE NOTED OR INDICATED.
- WATER CLOSET (WC-1), TOTO #CST7445, VITREOUS CHINA, FLOOR-MOUNTED, ELONGATED BOWL, SIPHON JET ACTION, CLOSE-COUPLED TANK TYPE WATER CLOSET, 1.6-GPF, 14-5/8" HIGH, FULLU GLAZED TRAPWAY AND MANUFACTURER'S BOLT CAPS, CHROME-PLATED BRASS TRIP LEVER AND 3/8" FLEXIBLE RISER WITH LOOSE KEY QUARTER TURN ANGLE STOP VALVE. PROVIDE TOTO #SC534 WHITE ELONGATED OPEN FRONT SEAT LESS COVER.
- WATER CLOSET (WC-1H), TOTO #CSC7445L.01, FLOOR-MOUNTED, CONSTRUCTED OF VITREOUS CHINA, MEETING ANSI A-117.1 AND ADA BARRIER-FREE REQUIREMENTS, 17" HIGH, 1.6-GALLON FLUSH, CLOSE-COUPLED TANK DESIGN WITH ELONGATED BOWL AND SIPHON JET ACTION. TANK SHALL BE VITREOUS CHINA WITH COVER, 3/8" FLEXIBLE RISER WITH LOOSE KEY ANGLE STOP VALVE, CHROME-PLATED BRASS TRIP LEVER AND MANUFACTURER'S BOLT CAPS. PROVIDE BENKE #527 WHITE ELONGATED OPEN FRONT SEAT LESS COVER, PERMA BUMPER.
- URINAL (UR-1H), TOTO #UT104, VITREOUS CHINA, WALL HUNG, ELONGATED RIM, (14" MINIMUM WALL TO EDGE OF LIP), WASHOUT ADA STYLE FLUSHOMETER URINAL, 1.0 GPF, 3/4-INCH TOP SPUD INLET, 2-INCH I.P.S. OUTLET AND WARE 400 CARRIER (TO MATCH WALL TYPE). URINAL SHALL BE MOUNTED AT ADA HEIGHT (17" MAX. AFF TO TOP OF LIP). PROVIDE WITH SLOAN OPTIMA 8111 1.0 GALLON FLUSH, 3/4-INCH I.P.S. ANGLE STOP WITH WALL AND SPUD ESCUTCHEONS, INFRARED SENSOR OPERATED, BATTERY POWERED, CHROME PLATED FLUSH-VALVE W/VACUUM BREAKER.
- LAVATORY (LAV-1H), TOTO #LT307.4 (20"x18"), WALL-HUNG TYPE, CONSTRUCTED OF VITREOUS CHINA, MEETING ANSI A-117.1 AND ADA BARRIER-FREE REQUIREMENTS. LAVATORY SHALL HAVE 4-INCH FAUCET CENTERS AND DRILLED FOR CONCEALED ARM CARRIER. PROVIDE 3/8-INCH FLEXIBLE RISER W/ANGLE SUPPLIES WITH LOOSE KEY STOPS, 1-1/4-INCH INLET 1-1/2-INCH OUTLET CHROME PLATED CAST BRASS "P" TRAP W/CLEANOUT PLUG AND ESCUTCHEON W/SET SCREW. PROVIDE DELTA #523-WFOGHDH HEAVY DUTY SINGLE LEVER FAUCET, 4-INCH CENTERS, VANDAL-RESISTANT 2.2 GPM AERATOR, PERFORATED OFFSET GRID DRAIN (W/ 1-1/4" TAILPIECE) AND VANDAL-RESISTANT SINGLE LEVER HANDLE. PROVIDE WITH WADE (TO MATCH WALL TYPE). MOUNT AT ADA HEIGHT AND MAINTAIN CLEARANCES UNDER LAVATORY AS REQUIRED BY ADA REGULATIONS. INSULATE WASTE AND HOT WATER SUPPLY UNDER LAVATORY WITH UNDERSINK PROTECTIVE PIPE COVER, MOLDED, ANTIMICROBIAL, WITH FLUSH REUSABLE FASTENERS, TRUEBRO LAY GUARD.
- SINK (SK-1), JUST #DL-2133-A-GR, DOUBLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, SELF RIMMING, UNDERSIDE FULLY UNDERCOATED WITH SOUND DAMPENING MATERIAL, 4 HOLE PUNCH, NOMINAL DIMENSIONS OF 21"x33"x8" DEEP. PROVIDE WITH DELTA #400-WFELHHDF HEAVY DUTY SINGLE LEVER SINK FAUCET WITH SPRAYER, 8" LONG SWIVEL SPOUT, 8" CENTERS, 2.0 GPM VANDAL-RESISTANT AERATOR, JUST J-35 BASKET STRAINER DRAIN, 1-1/2" TAILPIECE, 3/8-INCH FLEXIBLE RISER W/ANGLE SUPPLIES WITH LOOSE KEY STOPS, 1-1/2-INCH INLET - 2-INCH OUTLET CHROME PLATED CAST BRASS "P" TRAP W/CLEANOUT PLUG AND ESCUTCHEON W/SET SCREW. COORDINATE MOUNTING WITH CASEWORK. SEE ARCHITECTURAL PLANS.
- SINK (SK-2), JUST #SL-2217-A-GR, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, SELF RIMMING, UNDERSIDE FULLY UNDERCOATED WITH SOUND DAMPENING MATERIAL, 3 HOLE PUNCH, NOMINAL DIMENSIONS OF 22"x17"x7-1/2" DEEP. PROVIDE WITH DELTA COMMERCIAL #272934 HEAVY DUTY DECKMOUNT SINK FAUCET, 6" RIGID/SWIVEL GOOSENECK SPOUT, 8" CENTERS, 2.0 GPM VANDAL-RESISTANT AERATOR, BASKET STRAINER DRAIN, 1-1/2" TAILPIECE, 3/8-INCH FLEXIBLE RISER W/ANGLE SUPPLIES WITH LOOSE KEY STOPS, 1-1/2-INCH INLET 2-INCH OUTLET CHROME PLATED CAST BRASS "P" TRAP W/CLEANOUT PLUG, ESCUTCHEON W/SET SCREW AND 4" VANDAL-RESISTANT WRIST BLADE HANDLES, JUST J-35 DRAIN.
- ELECTRIC WATER COOLER (EWC-1), OASIS #PF8ACSL, BI-LEVEL BARRIER FREE WITH STAINLESS STEEL TOP WITH SATIN FINISH, SANDSTONE POWDER COAT FINISH ON GALVANIZED STEEL CABINET, FRONT AND SIDE TOUCHPAD OPERATORS, FLEXIBLE BUBBLER GUARD, EXTERNAL STREAM HEIGHT ADJUSTMENT, 8 GPH @ 90°F, F AMBIENT. PROVIDE 3/8-INCH FLEXIBLE RISER W/ANGLE SUPPLIES WITH LOOSE KEY STOPS, AND 1-1/4-INCH INLET 1-1/2-INCH OUTLET CHROME-PLATED CAST BRASS "P" TRAP W/CLEANOUT PLUG AND ESCUTCHEON W/SET SCREW. MOUNT PER MANUFACTURER'S INSTRUCTIONS AND AS SHOWN ON THE ARCHITECTURAL PLANS.
- FLOOR DRAINS (FD-1), WADE #1100-G5-1-27. RATED FOR GENERAL LIGHT DUTY USE WITH CAST IRON BODY WITH FLANGE, SEEPAGE OPENINGS, INTEGRAL REVERSING CLAMPING COLLAR, TRAP PRIMER CONNECTION, 5" SQUARE NICKEL BRONZE ADJUSTIBLE STRAINER, SEDIMENT BUCKET AND HEEL PROOF GRATE, PROVIDE WITH SEPARATE DEEP SEAL "P" TRAP (SEE PLANS FOR SIZE).
- EQUIPMENT DRAINS (ED-1) WADE #1100-94 ADJUSTABLE CAST IRON FLOOR DRAIN WITH FLANGE, SEEPAGE OPENINGS, INTEGRAL CLAMPING COLLAR, EXTENSION ADAPTER INSTALLED ABOVE THE FLOOR ELEVATION APPROXIMATELY 3/4" TO PREVENT WATER ON THE FLOOR FROM ENTERING DRAIN AND 1/2" PLUGGED TRAP PRIMER CONNECTION. PROVIDE WITH SEPARATE DEEP SEAL "P" TRAP (SEE PLANS FOR SIZE).
- SANITARY FLOOR SINKS: ES-1 WADE #9130-1-24-27-6 SQUARE PATTERN FLOOR SINK WITH CAST IRON BODY (12" X 12" X 6" DEEP), ACID RESISTING ENAMELED INTERIOR, SEDIMENT BUCKET, TRAP PRIMER CONNECTION AND 12" SQUARE NICKEL BRONZE FRAME AND GRATE. PROVIDE WITH SEPARATE DEEP SEAL "P" TRAP (SEE PLANS FOR SIZE).
- FINISHED FLOOR CLEANOUTS: (FFCO) WADE #6000-1-2-S CAST IRON FLOOR CLEANOUT WITH FLANGE, PLASTIC TAPERED PLUG AND SQUARE NICKEL BRONZE ADJUSTABLE TOP. PROVIDE WITH CARPET CLEANOUT MARKER WHEN CLEANOUT IS LOCATED BELOW CARPET. COORDINATE WITH ARCHITECTURAL PLANS.
- FINISHED WALL CLEANOUTS: (FWCO) WADE #8560, W/ 8304-85-6 CAST IRON CLEANOUT TEE WITH BRASS PLUG AND 6" ROUND STAINLESS STEEL ACCESS COVER. J.R. SMITH FIGURE 4530. PROVIDE DUCO CAST IRON WALL CLEANOUT TEE WITH COUNTERSUNK PLUG. DELETE COVER PLATE IF CLEANOUT IS IN EXPOSED LOCATION.
- ALL FIXTURES USED SPECIFICALLY FOR HANDWASHING PURPOSES (LAVATORIES, HAND SINKS, ETC.) SHALL BE PROVIDED WITH A TEMPERING VALVE TO TEMPER THE HOT WATER TO THE FIXTURE (MAXIMUM OF 105-DEGREES F).

HVAC SYSTEM SAFETY CONTROLS

- DUCT SMOKE DETECTORS SHALL BE FURNISHED BY THE HVAC CONTRACTOR. SEE ELECTRICAL FOR INTEGRATION OF ALL SMOKE DETECTION AND SHUTDOWN OF EQUIPMENT. ALL HVAC EQUIPMENT IN EXCESS OF 2000 CFM SHALL BE EQUIPPED WITH SMOKE DETECTORS IN THE RETURN AIR STREAM OF THE UNIT. WHERE MULTIPLE HVAC UNIT FANS SHARE A COMMON RETURN AIR PLENUM (IN EXCESS OF 2,000 CFM COMBINED), ALL HVAC UNITS SHALL BE PROVIDED WITH A SMOKE DETECTOR. WHERE DUCT MOUNTED DETECTORS ARE SHOWN OR REQUIRED, USE DUCT INSERTION TUBE TYPE DETECTORS. IF FIRE ALARM SYSTEM IS INSTALLED, COORDINATE TYPE OF SMOKE DETECTOR WITH THE FIRE ALARM CONTRACTOR.

FIRE ALARM SYSTEM SPECIFICATION

- THE EXISTING BUILDING IS PROVIDED BY A FIRE ALARM SYSTEM. FIRE ALARM DEVICES ARE TO BE EXTENDED TO THE NEW CONSTRUCTION AREAS UTILIZING THE EXISTING MAIN FA SYSTEM COMPONENTS. THE EXISTING SYSTEM SHALL BE SURVEYED BY THE FA CONTRACTOR TO DETERMINE IF THE EXISTING SYSTEM BACKBONE HAS SUFFICIENT CAPACITY. EXPAND SYSTEM AS NECESSARY TO SUPPORT THE NEW CONSTRUCTION.



MACADOODLES
1499 MARKET STREET
LEE'S SUMMIT, MISSOURI



JOB NO.:	22035
DATE:	04/13/2022
REVISIONS:	
DESIGNED BY:	GEG
DRAWN BY:	GEG
CHECKED BY:	GEG
SHEET NO.	

MPE300