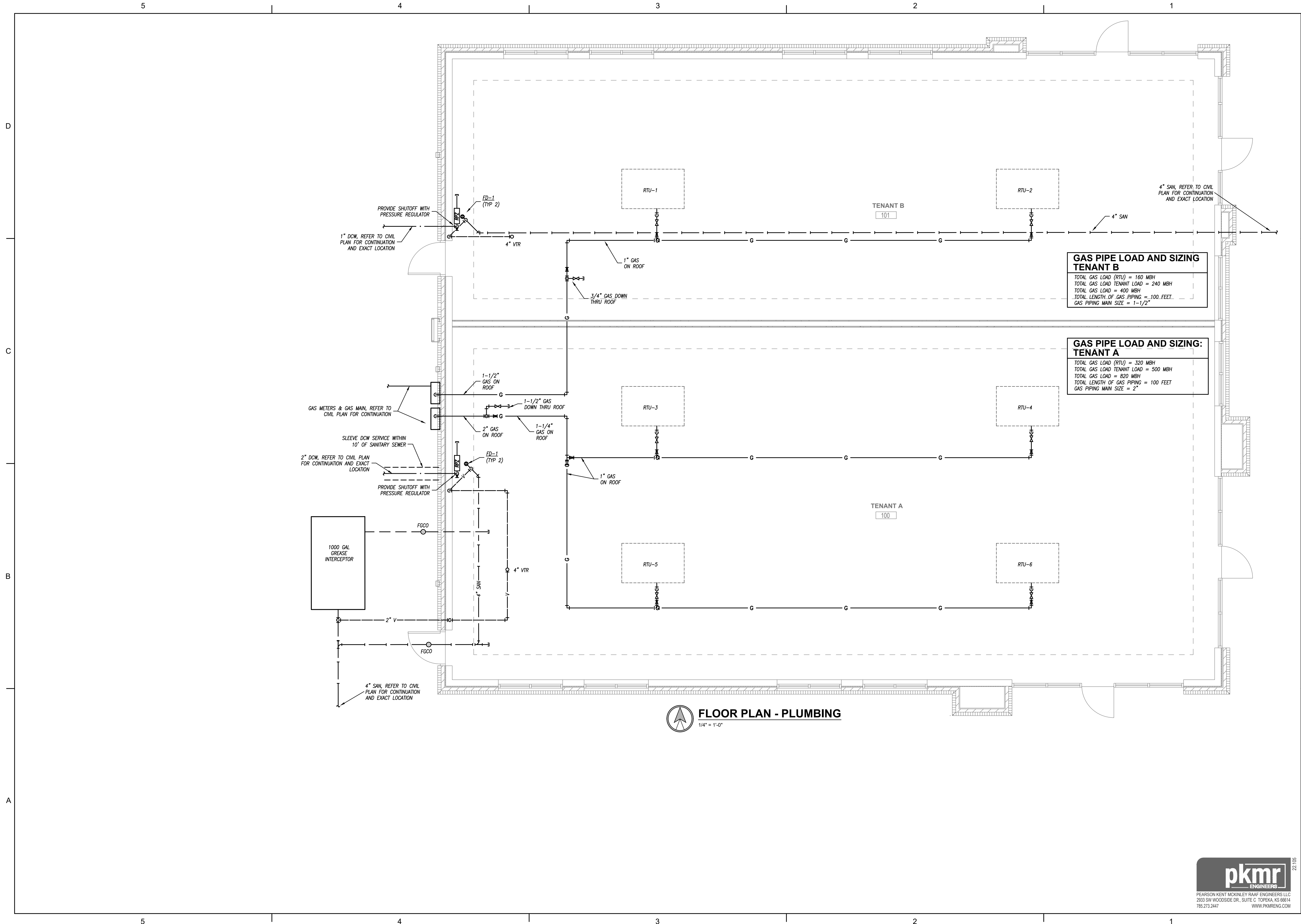


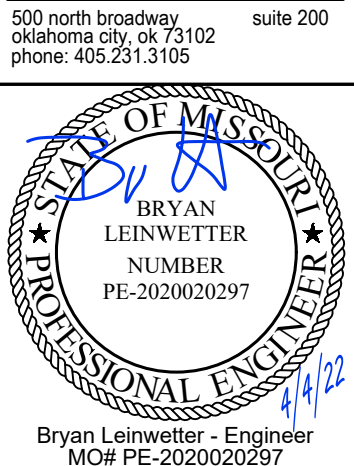
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FLOOR PLAN - PLUMBING
1/4" = 1'-0"



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Bryan Leinweber - Engineer
MCH# FE-2020020297

MULTI-TENANT BUILDING - PARCEL #9B
STREETS OF WEST PRYOR
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI 64081

SUBMISSION DATES	
4-4-22	

SHEET TITLE
PLUMBING PLAN

PROJECT NUMBER
210345

SHEET NUMBER
M-101

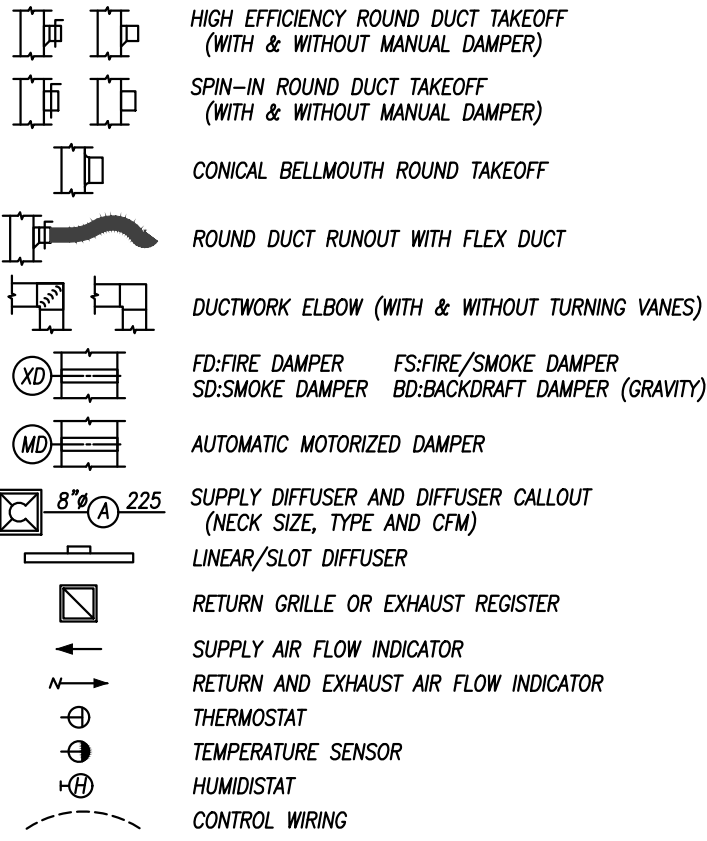


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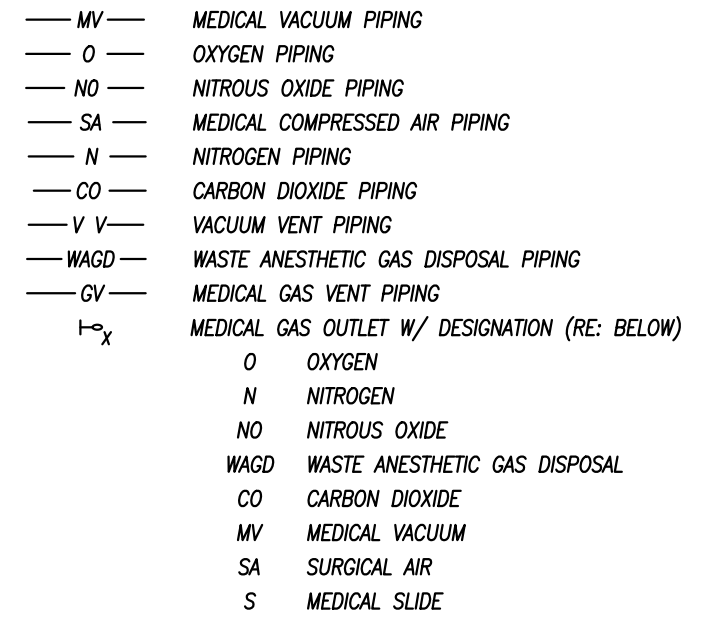
MECHANICAL AND PLUMBING SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

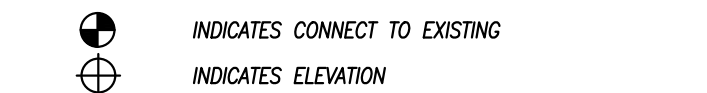
SHEET METAL



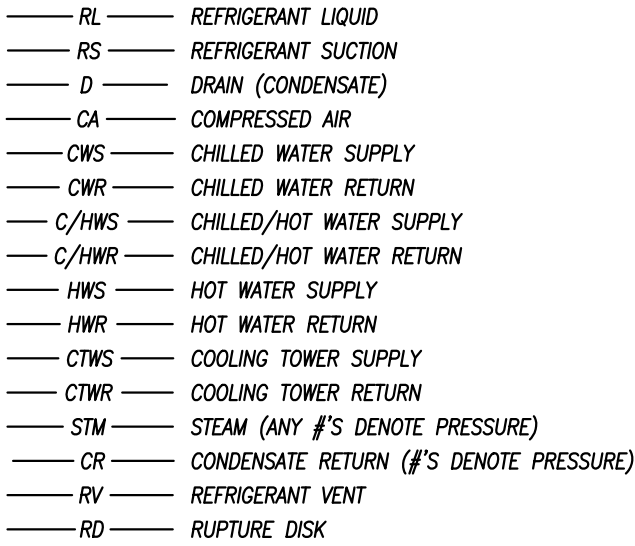
MEDICAL GAS



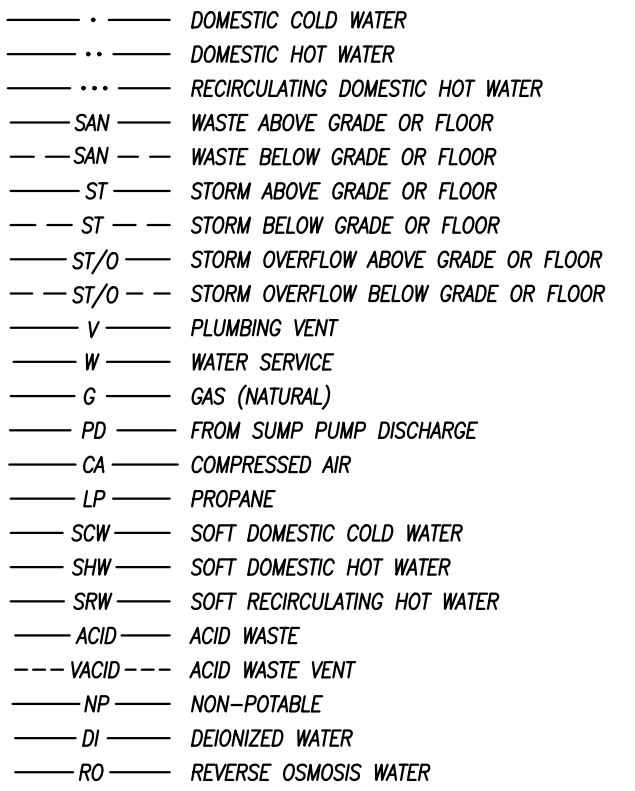
GENERAL SYMBOLS



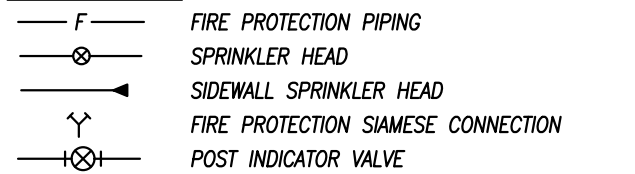
MECHANICAL PIPING



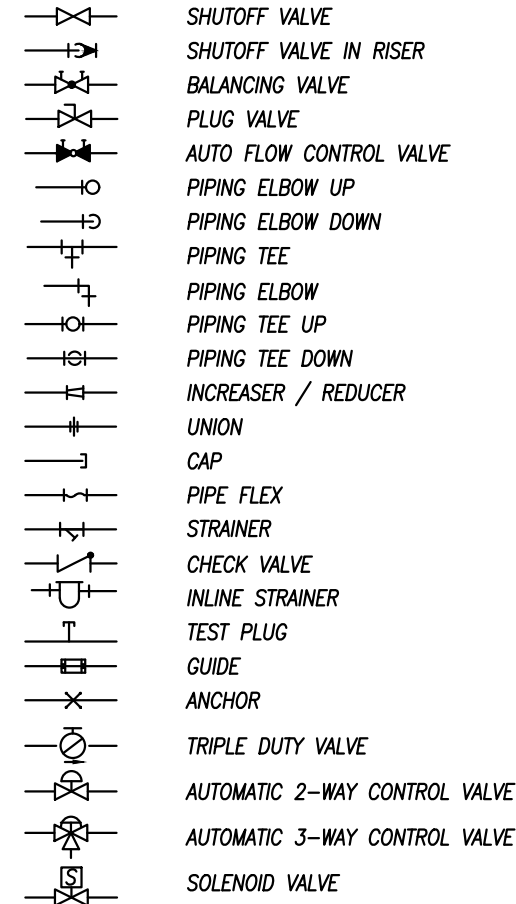
PLUMBING PIPING



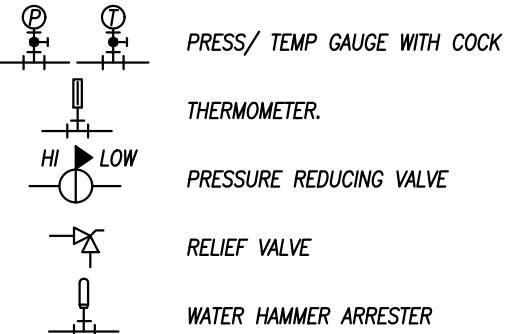
FIRE SPRINKLER



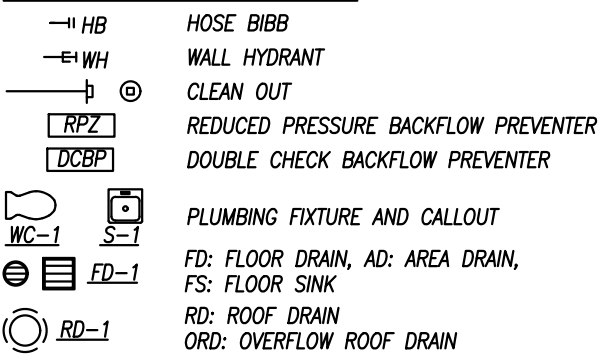
PIPING SYMBOLS



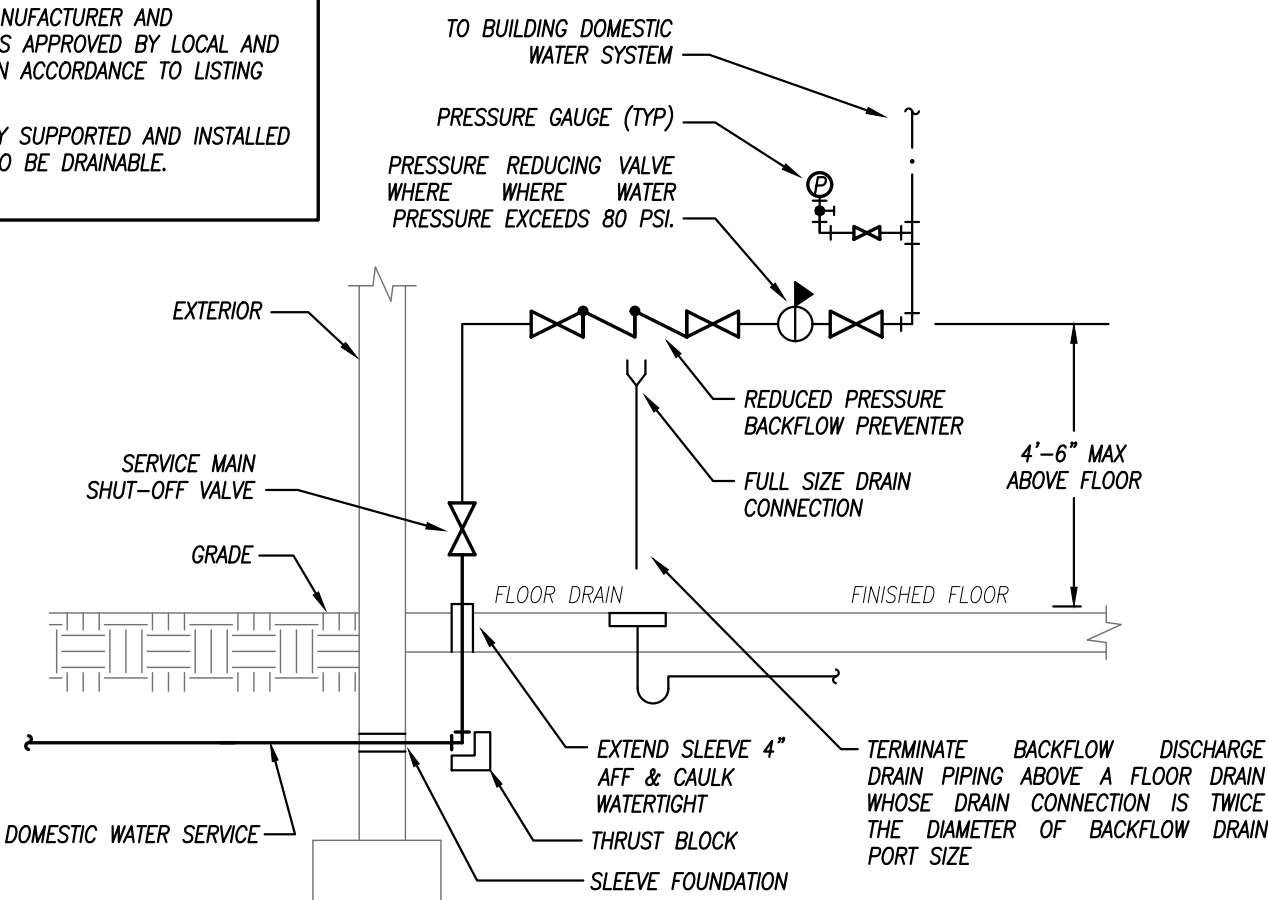
PIPING SPECIALTIES



PLUMBING FIXTURES/EQUIPMENT

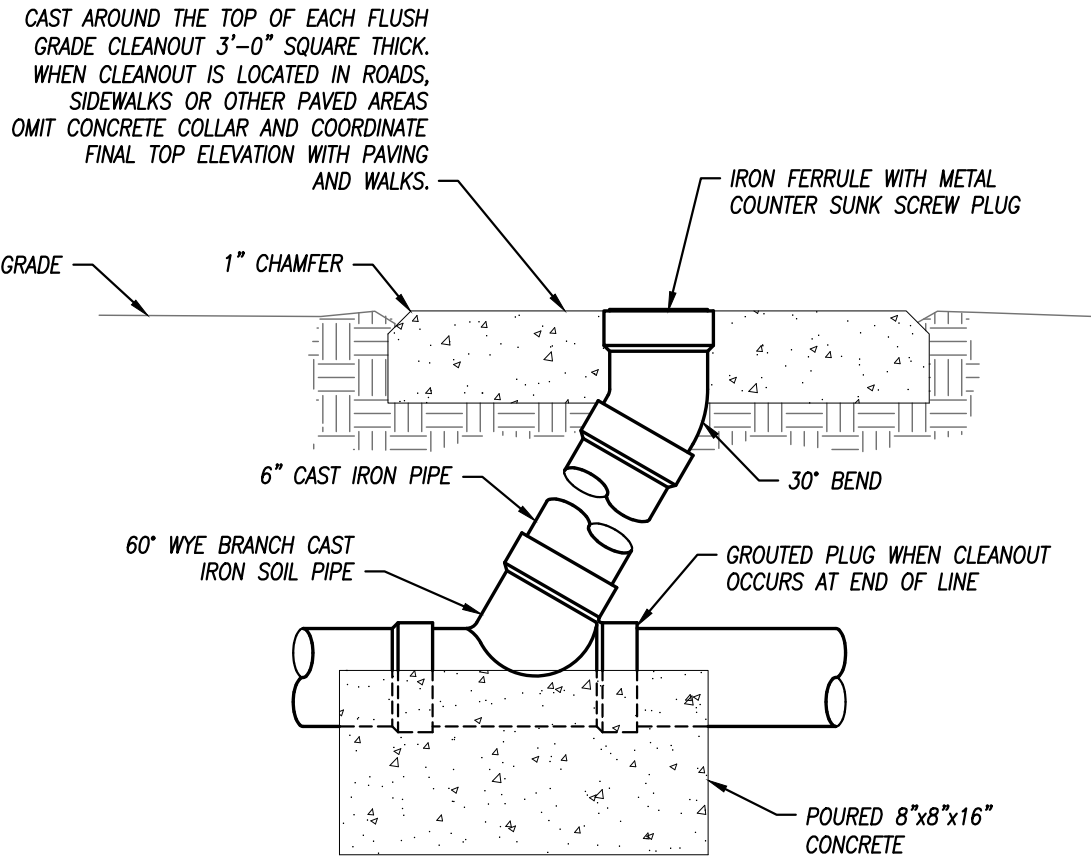


NOTES:
1. BACKFLOW PREVENTER MANUFACTURER AND INSTALLATION SHALL BE AS APPROVED BY LOCAL AND STATE AUTHORITIES AND IN ACCORDANCE TO LISTING OF DEVICE.
2. ALL PIPING TO BE RIGIDLY SUPPORTED AND INSTALLED IN SUCH A MANNER AS TO BE DRAINABLE.



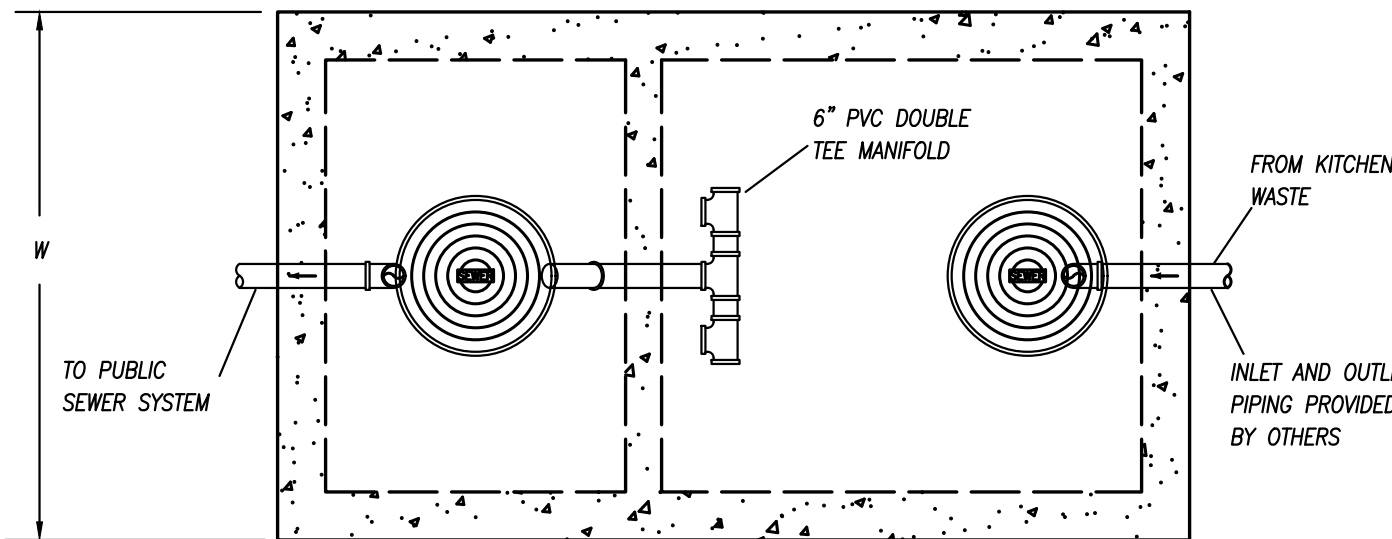
WATER SERVICE
REDUCED PRESSURE BACKFLOW PREVENTER DETAIL

NOT TO SCALE

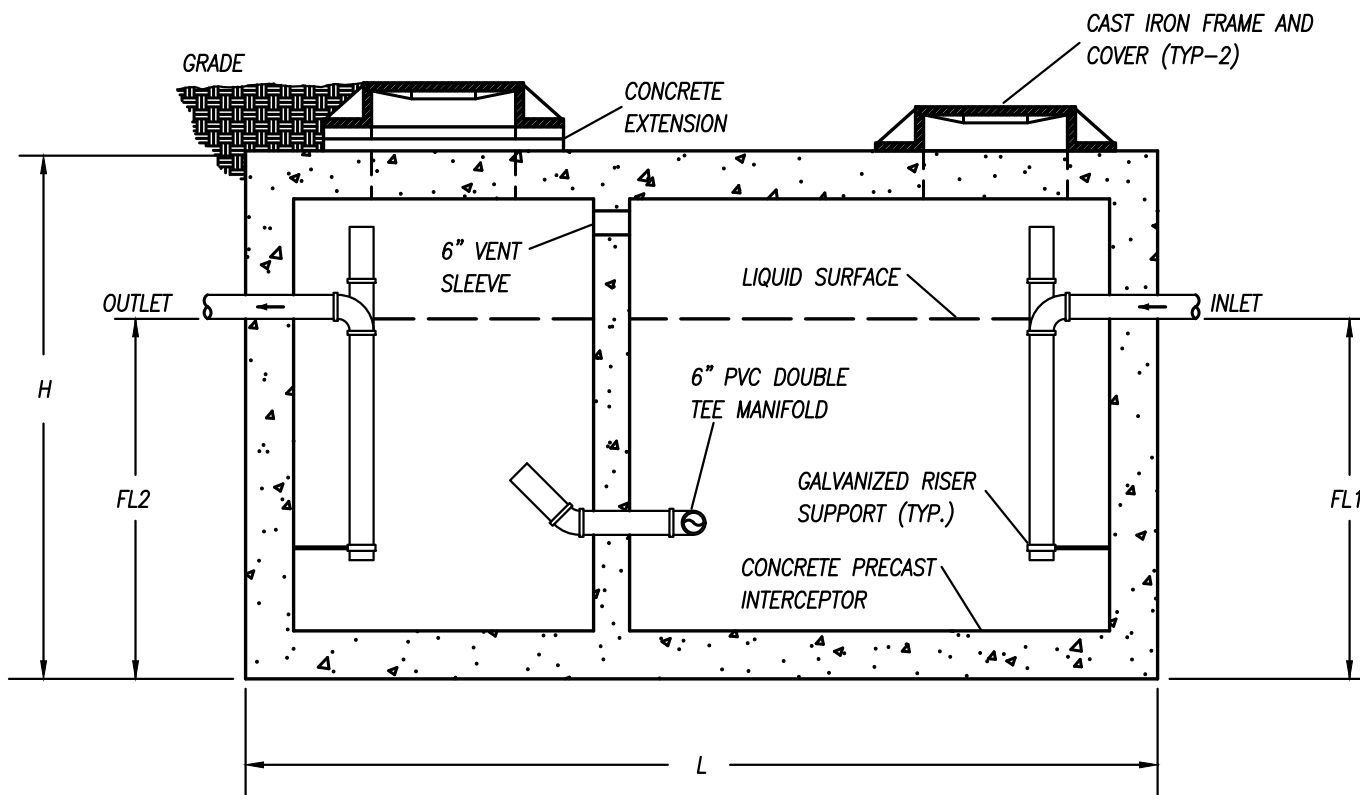


FLUSH GRADE CLEANOUT DETAIL

NOT TO SCALE



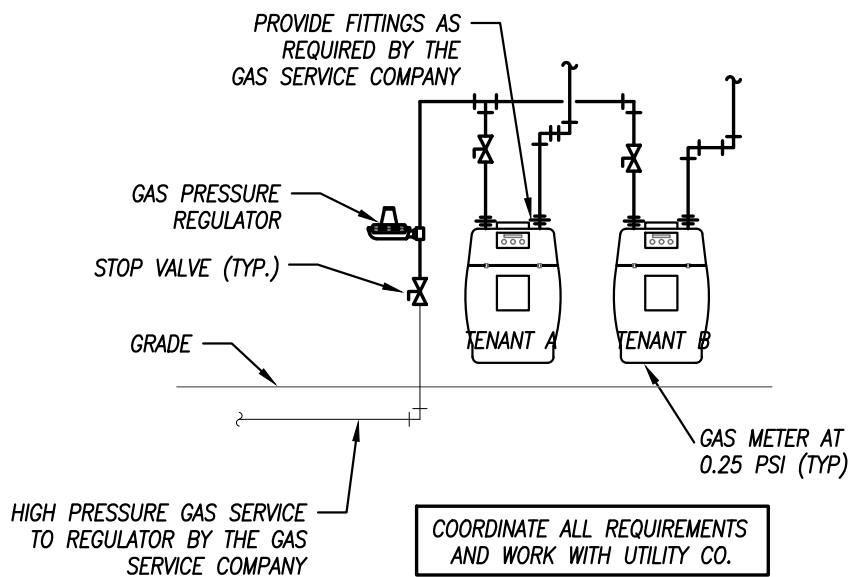
PLAN VIEW



ELEVATION

GREASE INTERCEPTOR DETAIL

NO SCALE



GAS SERVICE DETAIL

NOT TO SCALE

FLOOR DRAIN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	TOP/GRATE SIZE	WASTE SIZE	REMARKS
FD-1	WADE	1100	FLOOR DRAIN	6"Ø	3"	1
REMARKS: 1. PROVIDE WITH NICKEL BRONZE TOP AND TRAP SEAL.						

GREASE INTERCEPTOR SCHEDULE

MANUFACTURER	MODEL NO.	CAPACITY US gal	GREASE CAP. (LBS)	EMPTY WT (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1	OUTLET FL2
PARK ENVIRONMENTAL EQUIPMENT	GT-1000	1,000	2,300	13,200	8'-8"	5'-0"	6'-0"	4'-9"	4'-6"

PIPING MATERIAL & INSULATION SCHEDULE

PIPING SYSTEM	SIZE	TYPE/SCHED	MATERIAL	ACCEPTABLE FITTINGS	FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	INSULATION TYPE	THICKNESS
DOMESTIC COLD WATER	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2"
DOMESTIC HOT WATER & HW RETURN	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1"
NATURAL GAS - ABOVE GRADE	2-1/2" & Up	SCH. 40	STEEL- SEAMED	WELDED	75 PSI - 1HR	YES	----	----
NATURAL GAS - ABOVE GRADE	1/2"-2"	SCH. 40	STEEL- SEAMLESS	THREADED IRON	75 PSI - 1HR	YES	----	----
SOIL & WASTE BELOW GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	----	----
DOM. WATER SERVICE BELOW GRADE	4"-8"	AWWA C151	DUCTILE IRON	AWWA C111, MECH JOINTS	130 PSI - 1/2HR	YES	----	----
DOM. WATER SERVICE BELOW GRADE	1"-3"	K	COPPER	CONTINUOUS TUBING, BRAZED	130 PSI - 1/2HR	YES	----	----
DOM. WATER SERVICE BELOW GRADE	1"-3"	DR 9	HDPE	CONTINUOUS TUBING, FUSED	130 PSI - 1/2HR	NO	----	----

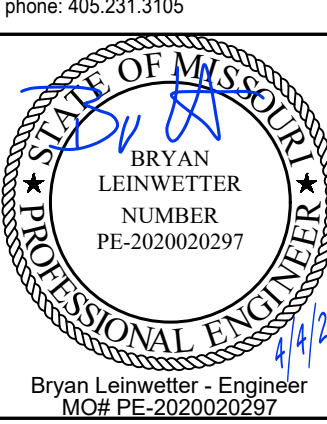
NOTES

1. ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
2. ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 - 2007 REQUIREMENTS AT A MINIMUM.
3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.



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MULTI-TENANT BUILDING - PARCEL #9B
STREETS OF WEST PRYOR
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI 64081

SUBMISSION DATES

4-4-22		

SHEET TITLE
PLUMBING
DETAILS

PROJECT NUMBER
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SHEET NUMBER
M-201



22.105

**MULTI-TENANT BUILDING - PARCEL #9B
STREETS OF WEST PRYOR
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4-4-22

SHEET TITLE
HVAC PLAN

PROJECT NUMBER
210345

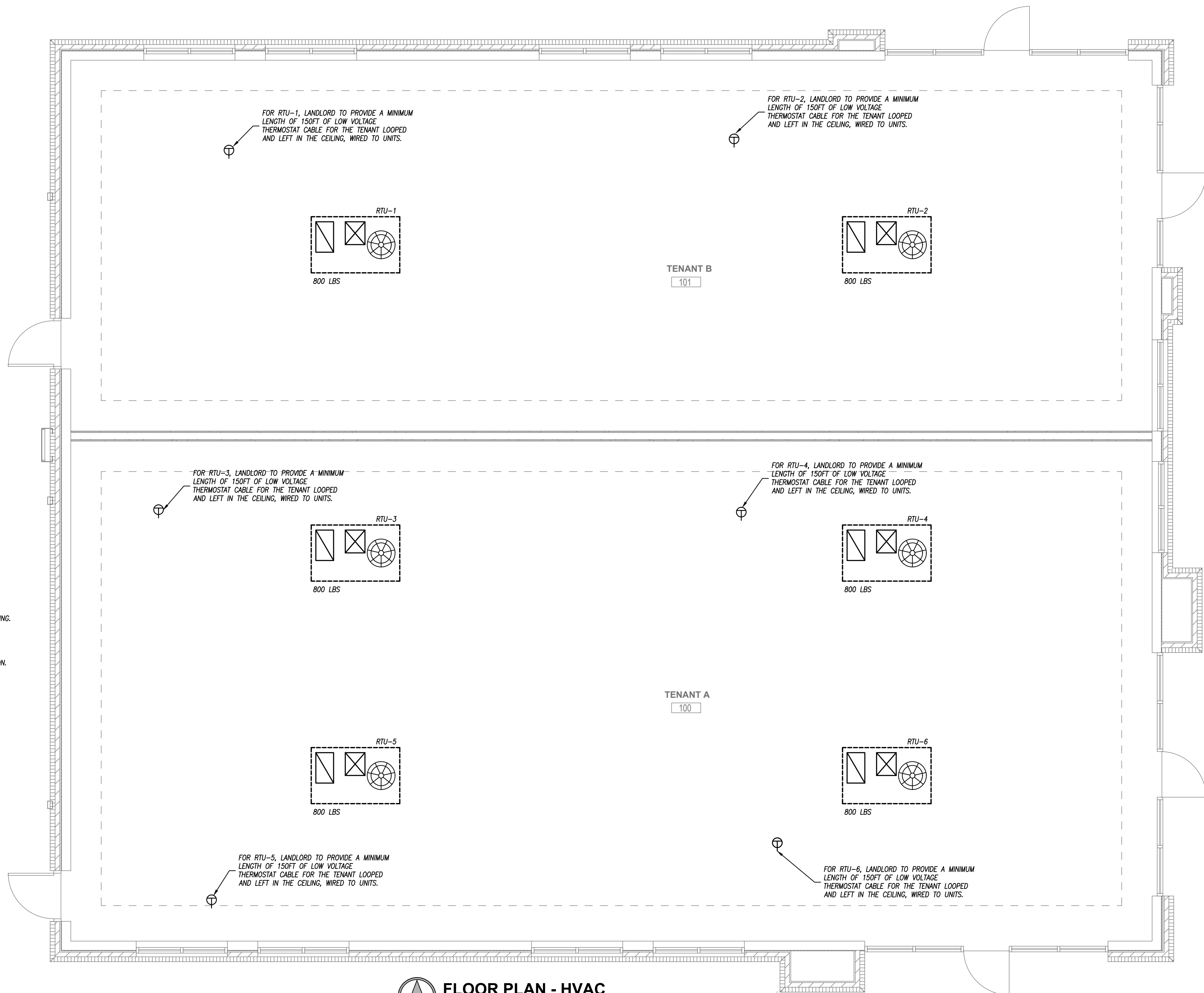
SHEET NUMBER
M-301



NOT TO SCALE



NOT TO SCALE



FLOOR PLAN - HVAC

$$\overline{1/4'' = 1'-0''}$$

ROOF TOP UNIT SCHEDULE - THREE PHASE ELECTRIC WITH GAS HEAT

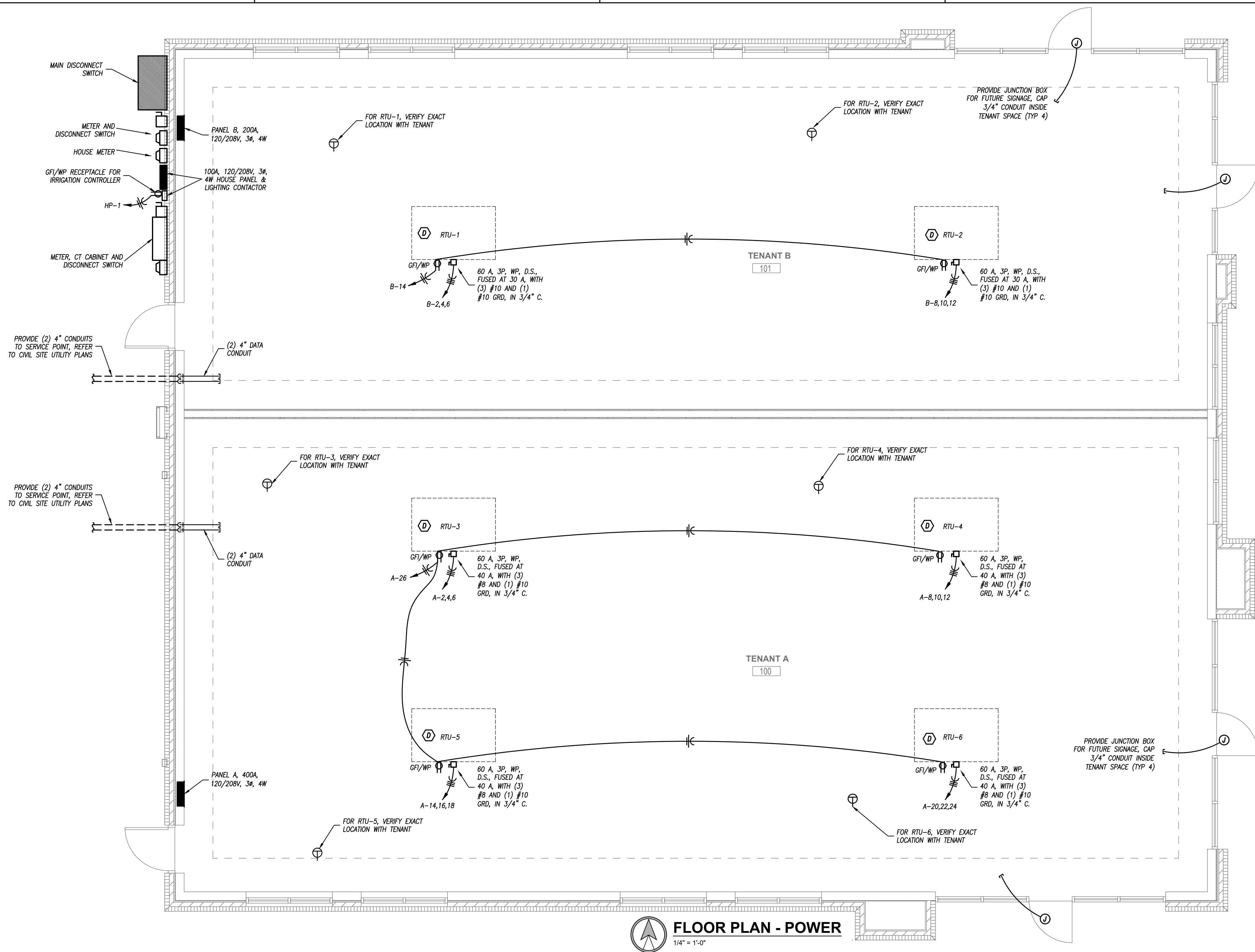
PLAN MARK	MANUFACTURER	MODEL NUMBER	SIZE	REFRIGERANT	MINIMUM EFFICIENCY	AIRFLOW	COMPRESSORS	COOLING CAPACITY	CFM	EXTERNAL STATIC	OA CFM	HEATING CAPACITY	ELECTRICAL	WEIGHT	FILTER	NOTES
RTU-1	TRANE	YSC 036 E3	3 TON	R-410A	14 SEER	DOWN	(1) SCROLL	37,100 BTUH	1,200	0.7"	120	80 MBH	208 V, 3 PH, 30 AMP	800 LBS	MERV 13	1,2,3
RTU-2	TRANE	YSC 036 E3	3 TON	R-410A	14 SEER	DOWN	(1) SCROLL	37,100 BTUH	1,200	0.7"	120	80 MBH	208 V, 3 PH, 30 AMP	800 LBS	MERV 13	1,2,3
RTU-3	TRANE	YSC 060 E3	5 TON	R-410A	14 SEER	DOWN	(1) SCROLL	60,100 BTUH	2,000	1.0"	200	80 MBH	208 V, 3 PH, 40 AMP	800 LBS	MERV 13	1,2,3,4,5
RTU-4	TRANE	YSC 060 E3	5 TON	R-410A	14 SEER	DOWN	(1) SCROLL	60,100 BTUH	2,000	1.0"	200	80 MBH	208 V, 3 PH, 40 AMP	800 LBS	MERV 13	1,2,3,4,5
RTU-5	TRANE	YSC 060 E3	5 TON	R-410A	14 SEER	DOWN	(1) SCROLL	60,100 BTUH	2,000	1.0"	200	80 MBH	208 V, 3 PH, 40 AMP	800 LBS	MERV 13	1,2,3,4,5
RTU-6	TRANE	YSC 060 E3	5 TON	R-410A	14 SEER	DOWN	(1) SCROLL	60,100 BTUH	2,000	1.0"	200	80 MBH	208 V, 3 PH, 40 AMP	800 LBS	MERV 13	1,2,3,4

NOTES | LEGEND

1. PROVIDE ROOF CURB, DISCONNECT SWITCH, HAIL GUARDS, AND ECONOMIZER
2. PROVIDE WALL MOUNTED 7-DAY PROGRAMMABLE THERMOSTAT
3. PROVIDE INTERNAL VIBRATION ISOLATION FOR THE RTU FAN AND COMPRESSORS
4. PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT DROP.
5. NEW ELECTRIC COOLING/GAS HEATING ROOFTOP PACKAGED UNIT BY LANDLORD. VERIFY FINAL LOCATION AT JOBSITE



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GENERAL ELECTRICAL NOTES

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2. COORDINATE LOCATIONS OF RECEPTACLES, SWITCHES, ETC. WITH ARCHITECTURAL CASEWORK AND ELEVATIONS.
3. REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHTS OF ALL DEVICES NOT INDICATED OTHERWISE.
4. PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED ENDS.
5. CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.

pkmr
ENGINEERS

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MO# PE-2020020297

**MULTI-TENANT BUILDING - PARCEL #9B
STREETS OF WEST PRYOR
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI 64081**

SUBMISSION DATES

4-4-22

SHEET TITLE
POWER PLAN

PROJECT NUMBER
210345

SHEET NUMBER
E-101

•

A

B

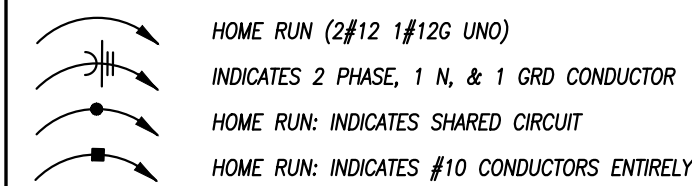
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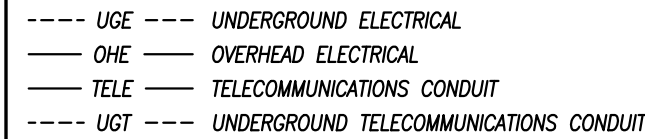
ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

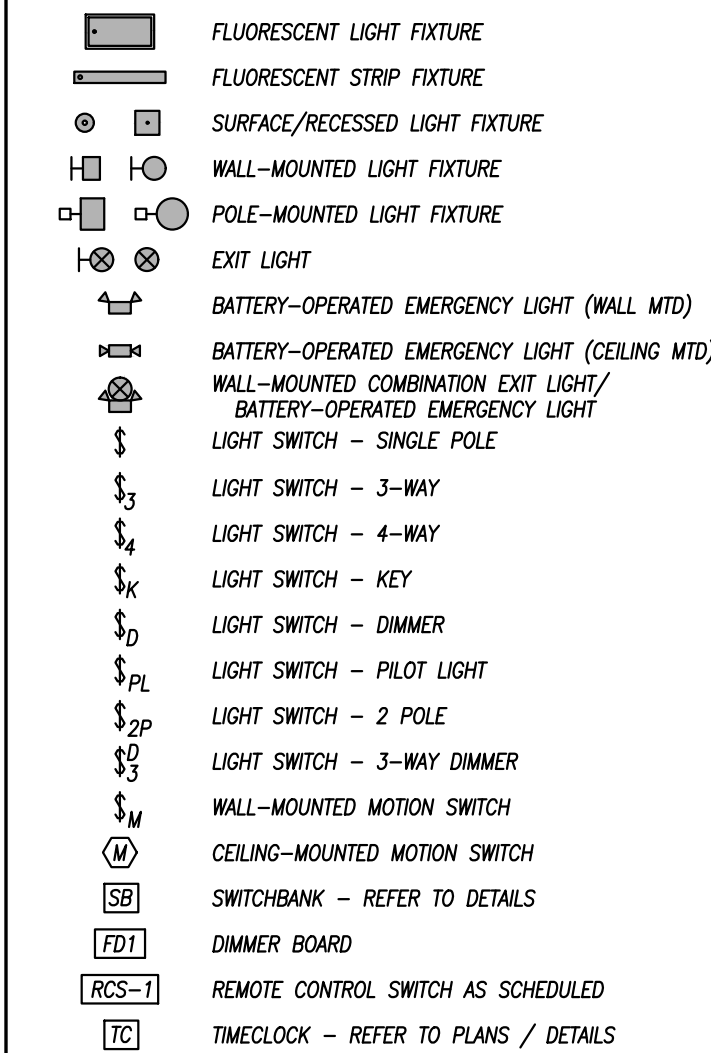
CIRCUITING



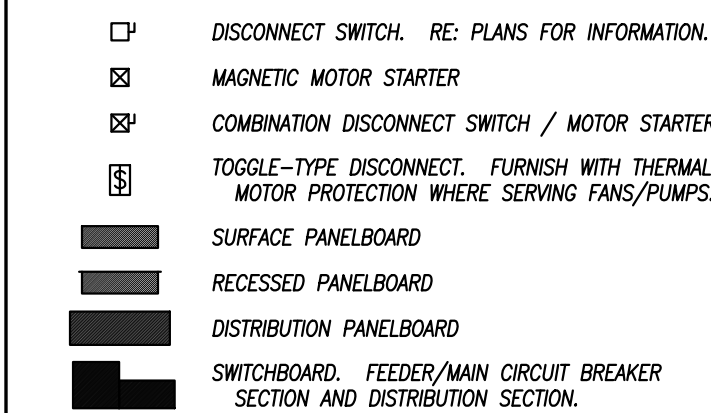
UTILITIES



LIGHTING



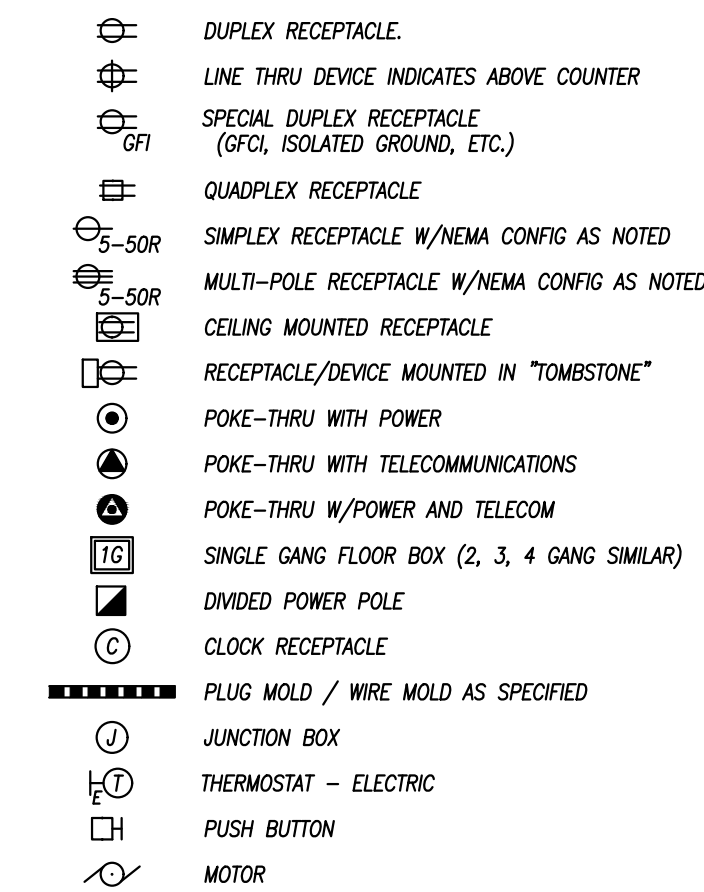
EQUIPMENT



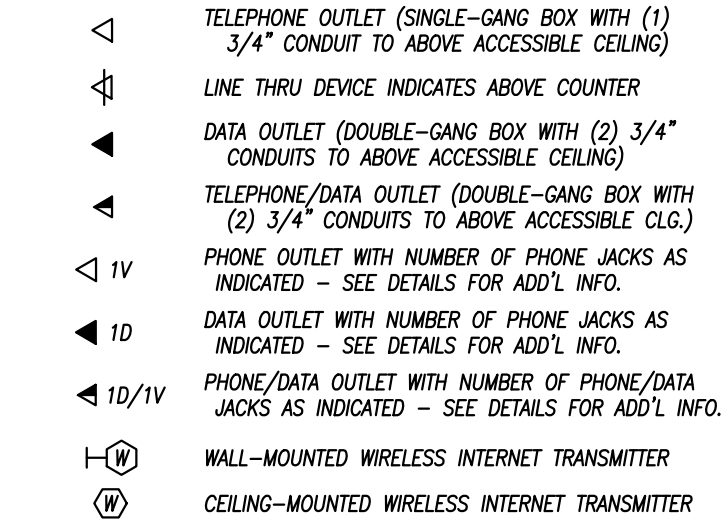
GENERAL SYMBOLS



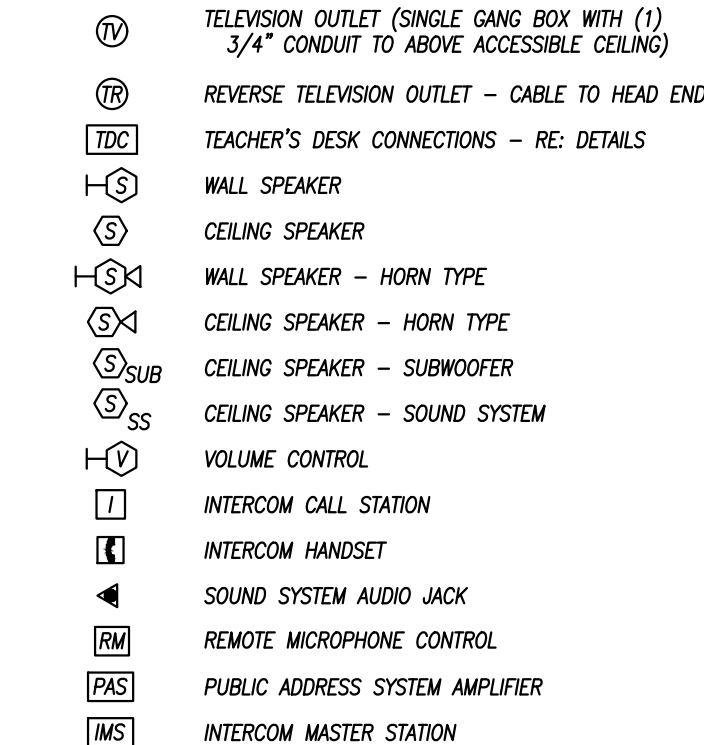
POWER DEVICES



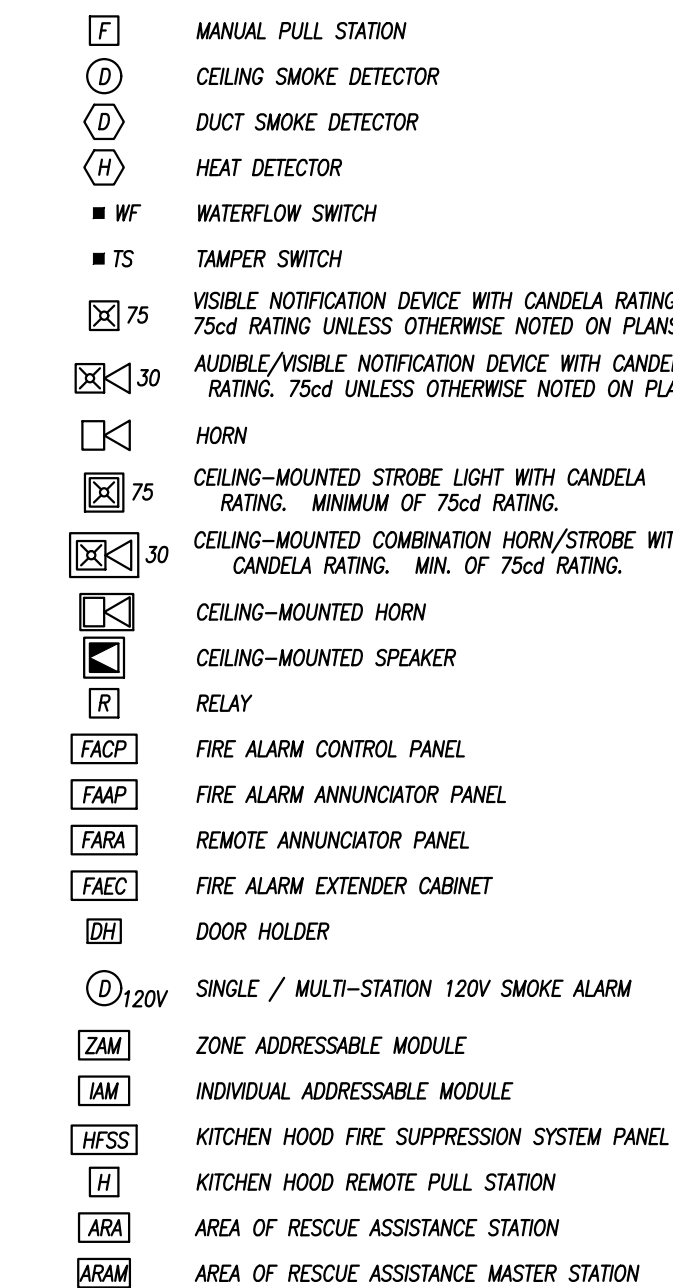
TELEPHONE/DATA



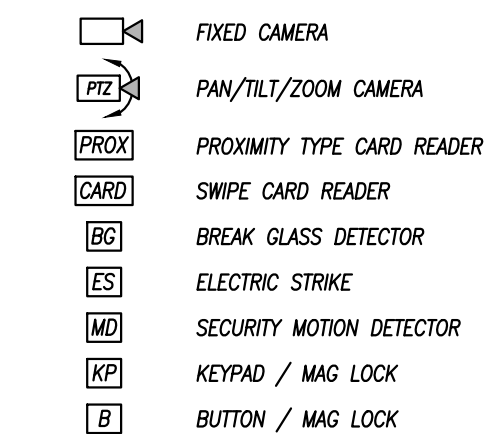
AUDIO/VISUAL



FIRE ALARM



SECURITY



GENERAL ELECTRICAL NOTES

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PANELBOARD SCHEDULE

PANEL DESIGNATION A	MAIN BUS AMPS: 400		VOLTAGE: 120/208V		MOUNTING: RECESSED	
	MAIN BREAKER: MCB		PHASE/WIRE: 3PH/4W		LOCATION: SEE PLANS	
	PANEL TYPE: NQ00				MINIMUM AIC: 22K	
CIRCUIT DESCRIPTION	CKT. BKR. P AMP	CKT. NO.	CKT. NO.	CKT. BKR. AMP P	CIRCUIT DESCRIPTION	
EXHAUST FAN	1 20	1	2	60 3	RTU-3 (VERIFY C.B. SIZE WITH	
RECEPTACLES: PLANTERS	1 20	3	4		TENANT'S CONSTRUCTION DOCUMENTS)	
DRIVE-THRU WINDOW	1 20	5	6			
PATIO STRING LIGHTS	1 20	7	8	60 3	RTU-4 (VERIFY C.B. SIZE WITH	
SPARE	1 20	9	10		TENANT'S CONSTRUCTION DOCUMENTS)	
SPARE	1 20	11	12			
SPARE	1 20	13	14	60 3	RTU-5 (VERIFY C.B. SIZE WITH	
SPARE	1 20	15	16		TENANT'S CONSTRUCTION DOCUMENTS)	
SPARE	1 20	17	18			
SPARE	1 20	19	20	60 3	RTU-6 (VERIFY C.B. SIZE WITH	
SPARE	1 20	21	22		TENANT'S CONSTRUCTION DOCUMENTS)	
SPARE	1 20	23	24			
SPARE	1 20	25	26	20 1	ROOF RECEPTACLES	
SPARE	1 20	27	28	20 1	SPARE	
SPARE	1 20	29	30	20 1	SPARE	
SPARE	1 20	31	32	20 1	SPARE	
SPARE	1 20	33	34	20 1	SPARE	
SPARE	1 20	35	36	20 1	SPARE	
SPARE	1 20	37	38	20 1	SPARE	
SPARE	1 20	39	40	20 1	SPARE	
SPARE	1 20	41	42	20 1	SPARE	

PANELBOARD SCHEDULE

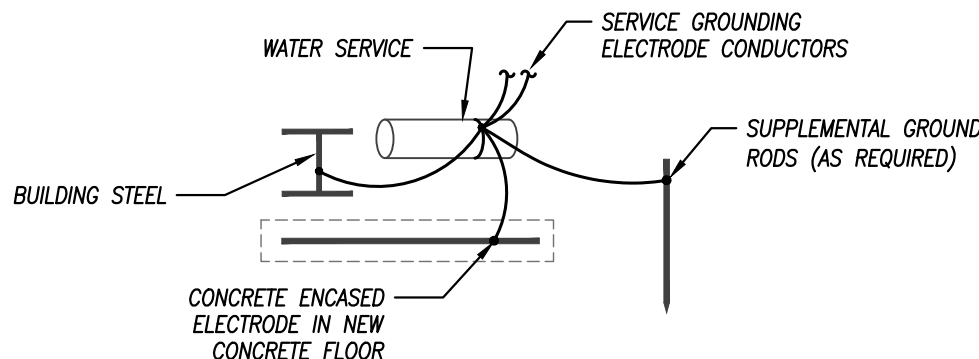
PANEL DESIGNATION HP	MAIN BUS AMPS: 100		VOLTAGE: 120/240V		MOUNTING: SURFACE	
	MAIN BREAKER: 100		PHASE/WIRE: 3PH/4W		LOCATION: EXTERIOR	
	PANEL TYPE: NEMA 3R				MINIMUM AIC: 22K	
CIRCUIT DESCRIPTION	CKT.	BKR.	CKT.	CKT.	CKT.	CIRCUIT DESCRIPTION
	P.	AMP	NO.	NO.	P.	
IRRIGATION CONTROLLER	1	20	1	2	20	SITE LTG: PARKING LOT
SPARE	1	20	3	4		
SPARE	1	20	5	6	20	SITE LTG: PARKING LOT
SPARE	1	20	7	8		
SPARE	1	20	9	10	20	SITE LTG: CANOPIES
SPARE	1	20	11	12	20	SITE LTG: WALL PACKS
SPARE	1	20	13	14	20	SITE LTG: EM LIGHTS
SPARE	1	20	15	16	20	SPARE
SPARE	1	20	17	18	20	SPARE
SPARE	1	20	19	20	20	SPARE
SPACE			21	22		SPACE
SPACE			23	24		SPACE
SPACE			25	26		SPACE
SPACE			27	28		SPACE
SPACE			29	30		SPACE

NOTES:

NEMA 3R RATED PANEL WITH LOCKABLE COVER

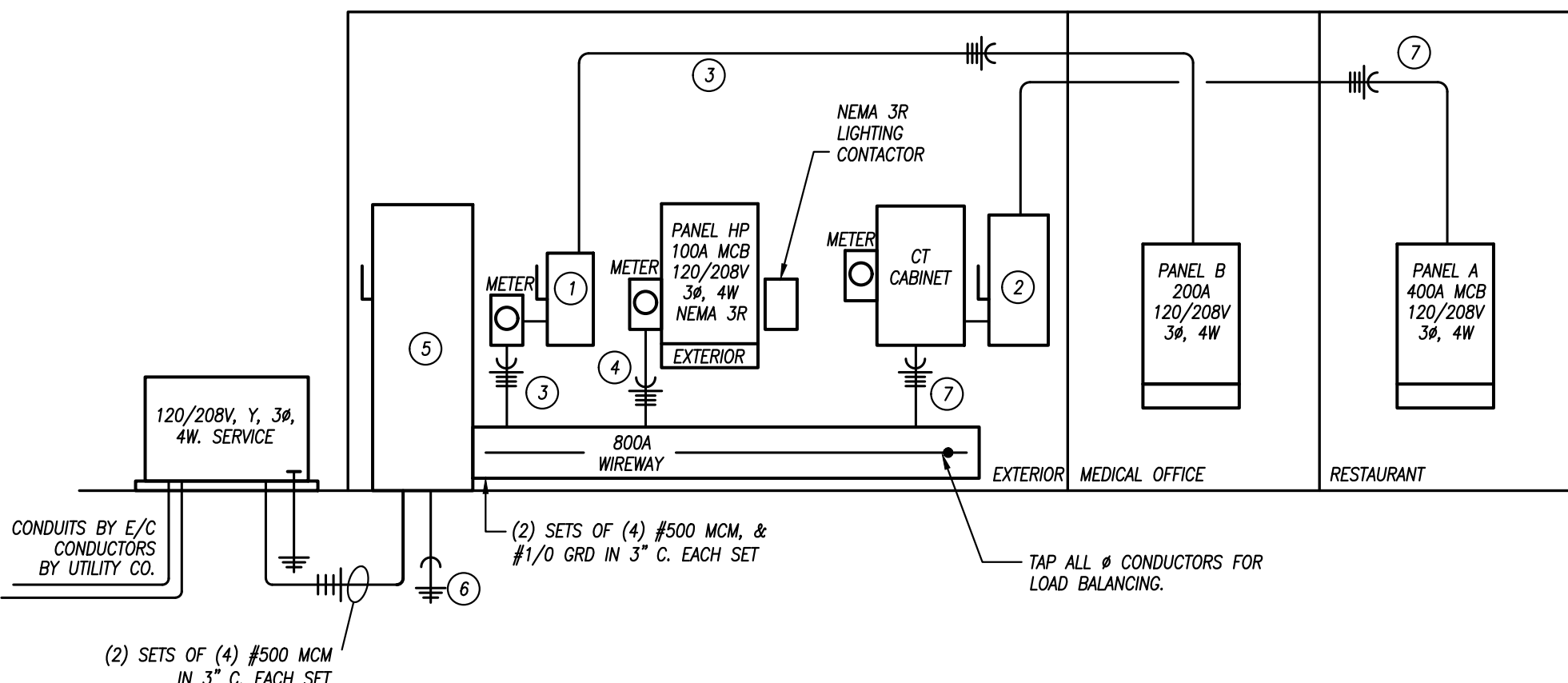
PANELBOARD SCHEDULE

PANEL DESIGNATION B	MAIN BUS AMPS: 225A		VOLTAGE: 120/208V		MOUNTING: RECESSED			
	MAIN BREAKER: 200A		PHASE/WIRE: 3PH/4W		LOCATION: SEE PLANS			
	PANEL TYPE: NQ00				MINIMUM AIC: 22K			
CIRCUIT DESCRIPTION		CKT. P	CKT. AMP	CKT. NO.	CKT. AMP	CKT. BKR. P	CIRCUIT DESCRIPTION	
SPARE		1	20	1	2	30	3	RTU-1 (VERIFY C.B. SIZE WITH
SPARE		1	20	3	4			TENANT'S CONSTRUCTION DOCUMENTS)
SPARE		1	20	5	6			
SPARE		1	20	7	8	30	3	RTU-2 (VERIFY C.B. SIZE WITH
SPARE		1	20	9	10			TENANT'S CONSTRUCTION DOCUMENTS)
SPARE		1	20	11	12			
SPARE		1	20	13	14	20	1	ROOF RECEPTACLES
SPARE		1	20	15	16	20	1	SPARE
SPARE		1	20	17	18	20	1	SPARE
SPARE		1	20	19	20	20	1	SPARE
SPARE		1	20	21	22	20	1	SPARE
SPARE		1	20	23	24	20	1	SPARE
SPARE		1	20	25	26	20	1	SPARE
SPARE		1	20	27	28	20	1	SPARE
SPARE		1	20	29	30	20	1	SPARE
SPARE		1	20	31	32	20	1	SPARE
SPARE		1	20	33	34	20	1	SPARE
SPARE		1	20	35	36	20	1	SPARE
SPARE		1	20	37	38	20	1	SPARE
SPARE		1	20	39	40	20	1	SPARE
SPARE		1	20	41	42	20	1	SPARE



GROUNDING ELECTRODE SYSTEM

N.T.S



ELECTRICAL RISER DIAGRAM

NO SCALE

ELECTRICAL RISER KEYED NOTES

- ① 200 AMP, 3 PH, NEMA 3R DISCONNECT SWITCH FUSED AT 200 AMP
- ② 400 AMP, 3 PH, NEMA 3R DISCONNECT SWITCH FUSED AT 400 AMP
- ③ 1 SET OF (4) #3/0 AND (1) #6 GRD. IN 2-1/2" C.
- ④ (4) #1 AND (1) #8 GRD. IN 1-1/2" C.
- ⑤ 800A 120/208V, 3PH, 4W NEMA 3R ELECTRONIC TRIP CIRCUIT BREAKER SERVICE RATED DISCONNECT
- ⑥ #3/0 GROUNDING ELECTRODE CONDUCTOR. RE: DETAIL.
- ⑦ 2 SETS OF (4) #3/0 AND (1) #6 GRD. IN 2-1/2" C.



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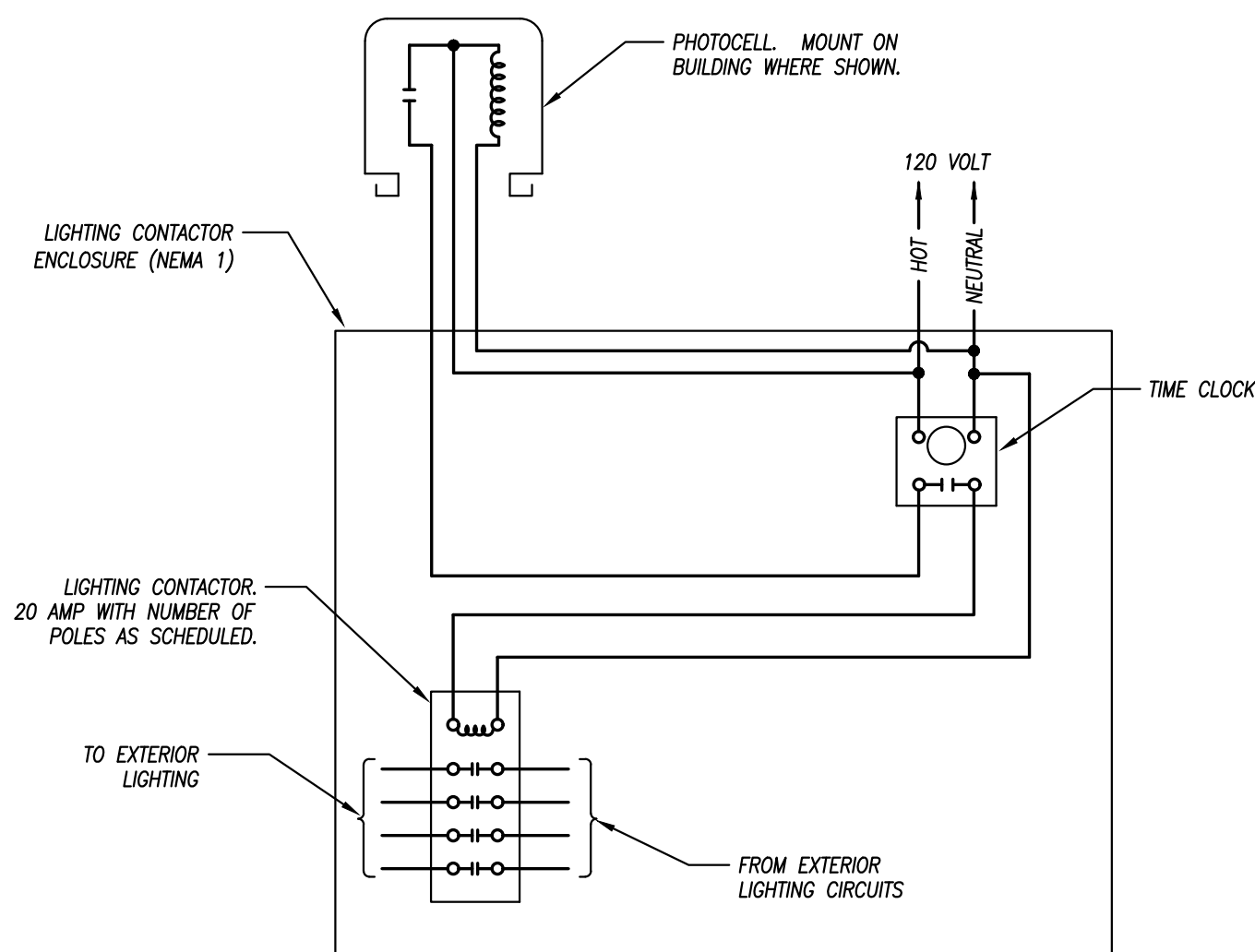
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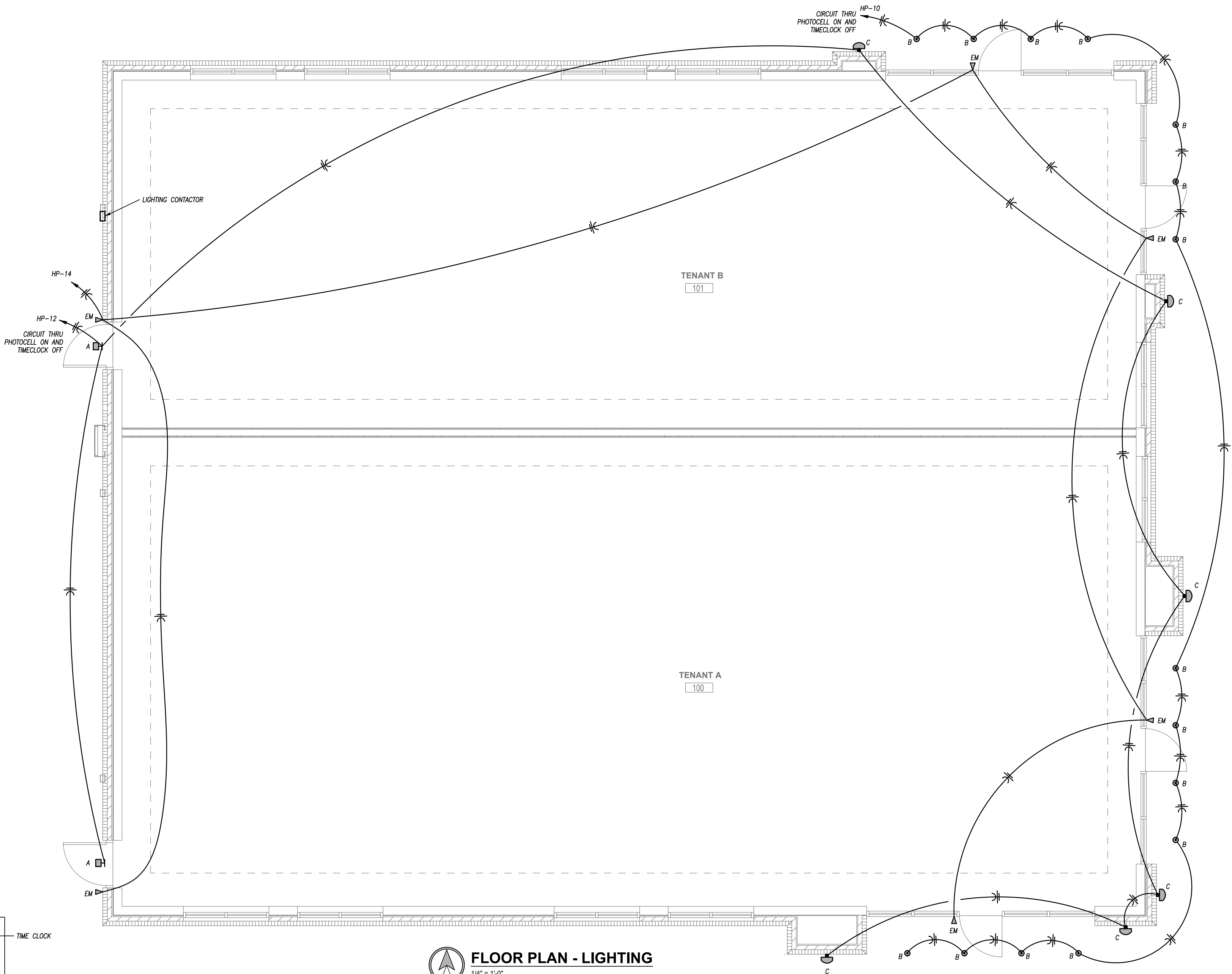
B

A



EXTERIOR LIGHTING CONTROL

NOT TO SCALE



FLOOR PLAN - LIGHTING

1/4" = 1'-0"

LIGHT FIXTURE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	MOUNTING	FINISH	LAMP CODE	LAMP QUANTITY	NOTES
A	COOPER	XTOR3B	SURFACE	BLACK	26W LED	1,2	
B	JUNO LIGHTING	MD1LWG2-3K-FL-BL	RECESSED	BLACK	5W LED	--	1,2
C	AFX	BMWS171800L30MYBZ	SURFACE WALL	BRONZE	1,800 LUMENS/19W	---	1,2
EM	DUAL LITE	PG-HTR	SURFACE WALL/CEILING	BY ARCHITECT	LED		1,2,5

NOTES LEGEND

- 1 - PROVIDE WET LOCATION RATED FIXTURE
- 2 - PROVIDE COLD LOCATION RATED BALLAST
- 3 - PROVIDE SQUARE STRAIGHT STEEL POLE RATED FOR 100 MPH WIND GUSTS, PRIMED AND PAINTED TO MATCH FIXTURE
- 4 - PROVIDE ELECTRONIC BALLAST
- 5 - PROVIDE EMERGENCY BATTERY (MINIMUM OF 1350 LUMENS FROM ONE LAMP FOR 90 MINUTES FOR FLUORESCENT 32WT8 LIGHTS)

GENERAL ELECTRICAL NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE A.H.U.
2. COORDINATE LOCATIONS OF RECEPTACLES, SWITCHES, ETC. WITH ARCHITECTURAL CASEWORK AND ELEVATIONS.
3. REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHTS OF ALL DEVICES NOT INDICATED OTHERWISE.
4. PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED ENDS.
5. CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.

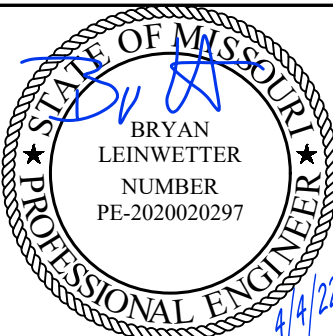


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MCH# FE-2020020297

MULTI-TENANT BUILDING - PARCEL #9B STREETS OF WEST PRYOR LEE'S SUMMIT, JACKSON COUNTY, MISSOURI 64081

SUBMISSION DATES

4-4-22

SHEET TITLE LIGHTING PLAN

PROJECT NUMBER
210345

SHEET NUMBER
E-201