

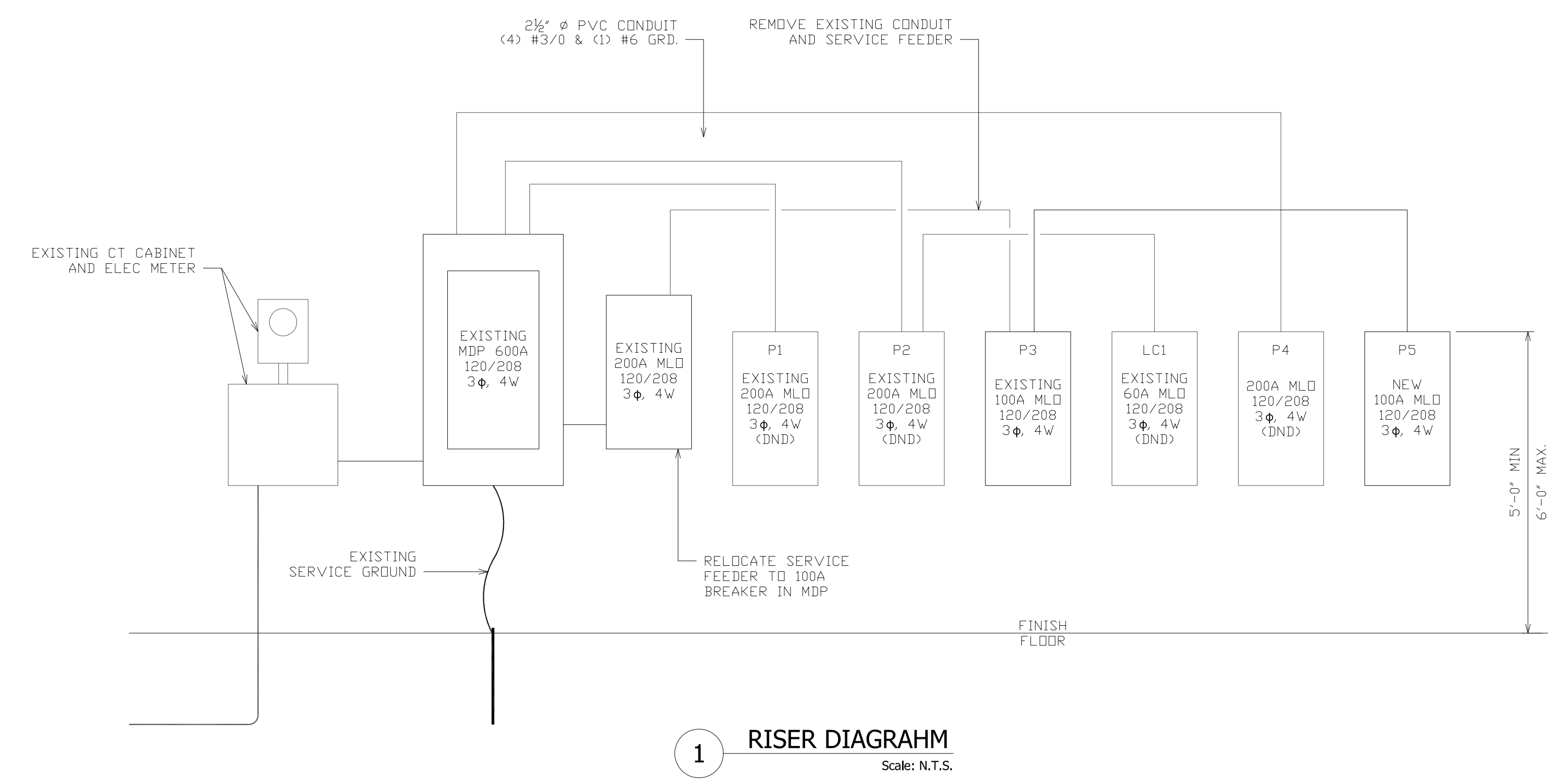
**GENERAL NOTES AND SPECIFICATIONS**

- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2014 NATIONAL ELECTRICAL CODE (NEC), LATEST EDITION, RULES AND REGULATIONS OF THE CITY OF LAWRENCE.
- ALL EQUIPMENT AND MATERIALS SHALL BE UL LISTED WHERE LISTING IS AVAILABLE FOR THAT TYPE OF EQUIPMENT OR CONFORM TO ANSI OR NEMA STANDARDS.
- WORKMANSHIP SHALL CONFORM TO CONSTRUCTION PRACTICES RECOMMENDED BY THE AMERICANS HANDBOOK BY CROFT (LATEST EDITION) AND SHALL BE SUBJECT TO THE APPROVAL OF THE AGENCY WHO HAS JURISDICTION.
- ANY DEVICE MAY BE RELOCATED FROM THE LOCATION SHOWN ON THE DRAWINGS PRIOR TO INSTALLATION AT THE DIRECTION OF THE OWNER AND AT NO ADDITIONAL COST TO THE OWNER.
- METALLIC ENCLOSURES, RACEWAYS, AND ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH REQUIREMENTS OF NEC. PROVIDE GROUND WIRE IN EVERY RACEWAY. SIZE IN ACCORDANCE WITH NEC.
- CONDUIT SHALL BE PVC (ENCASED IN CONCRETE AND BELOW GRADE), ALUMINUM (EXPOSED INSTALLATION), EMT (DRY LOCATIONS) CONCEALED ABOVE GRADE, 3/4" DIAMETER UNLESS OTHERWISE NOTED.
- WIRING SHALL BE TYPE THWN OR XHHW, 600V. CONDUCTORS SHALL BE COPPER.
- TESTING SHALL BE PER 2014 NEC.
  - MEASUREMENT OF VOLTAGES AT SERVICE EQUIPMENT.
  - OPERATION TEST
  - INSULATION RESISTANCE
  - GROUNDING TEST
- PANEL BOARD SHALL BE COMPLETE WITH BUS, ENCLOSURE AND TRIM, COMPLEMENT OF MOLDED PLASTIC CASE CIRCUIT BREAKERS WITH RATINGS AS INDICATED, AND COMPLETED TYPE WRITTEN CIRCUIT DIRECTORY.
- SUBSTITUTE MATERIALS TO BE EQUAL QUALITY TO SPECIFIED ITEM.
- GUARANTEE - THE ENTIRE INSTALLATION SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE BY THE OWNER AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP. WHEN NOTIFIED BY THE OWNER OF FAILURE OF ANY PART OF THE INSTALLATION DURING THE GUARANTEE PERIOD, CONTRACTOR SHALL REPAIR OR REPLACE THE DEFECTIVE PART AT HIS OWN EXPENSES TO THE SATISFACTION OF THE OWNER.
- INSTALLATION AND WORKMANSHIP.
  - ALL WORK SHALL BE NEATLY EXECUTED, WORKMANLIKE IN APPEARANCE SYMMETRICAL, PLUMB, UNIFORM, PROPERLY ALIGNED AND SECURED IN PLACE.
  - WIRING METHODS.
    - USE SEALTITE FLEX FOR CONNECTION TO EQUIPMENT.
    - ATTACH TO CONCRETE AND MASONRY WITH EXPANSION ANCHORS AND TO WOOD WITH WOOD SCREWS.
    - SUPPORT RACEWAYS PER NEC.
    - DO NOT SUPPORT RACEWAYS AND BOXES FROM AND ON MECHANICAL SYSTEMS.
    - CABLES WILL NOT BE PERMITTED.
  - CONDUCTORS.
    - MAKE SPLICES IN ACCESSIBLE LOCATIONS. MAKE SPLICES IN CONDUCTORS No. 10 AWG AND SMALLER DIAMETER WITH INSULATED, PRESSURE-TYPE CONNECTOR MAKE SPLICES IN CONDUCTORS No. 8 AWG AND LARGER DIAMETER WITH SOLDERLESS CONNECTOR, AND COVER WITH INSULATION MATERIAL EQUIVALENT TO CONDUCTOR INSTALLATION.
  - CUT, DRILL AND PATCH AS REQUIRED. REPAIR ANY SURFACES DAMAGED OR MARRED. CUTTING, REPAIRS AND REFINISHING SHALL BE SUBJECT TO THE APPROVAL OF OWNER.
  - CLEAN ALL SURFACES TO RECEIVE PAINT. PAINT ANY SURFACE DAMAGED DURING INSTALLATION.
  - REPAIR ALL SURFACES DAMAGED DURING THE INSTALLATION OF THE WORK SUBJECT TO THE APPROVAL OF THE OWNER.
  - ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOOR / CEILING ASSEMBLIES SHALL BE SEALED WITH APPROVED FIRESTOPPING MATERIAL.
  - PROVIDE EXPANSION/DEFLECTION FITTING FOR CONDUITS THROUGH SEISMIC JOINTS.
  - PROVIDE CONDUIT SEAL FOR CONDUITS PASSING THROUGH AIR CONDITIONED AND NON-AIR CONDITIONED AREAS.
- WIRING DEVICES.
  - SWITCHES, 20A-POLES AS INDICATED 120 / 240 V. COLOR TO MATCH DEVICE PLATE.
  - RECEPTACLES, 20A, 120V. COLOR TO MATCH DEVICE PLATE.
- FIXTURES - INSTALL FIXTURES INDICATED IN LUMINAIRE SCHEDULE COMPLETE WITH LAMPS, HANGERS, SUPPORTS, BALLAST AND ACCESSORIES. ALL FLUORESCENT BALLAST SHALL BE ELECTRONIC TYPE.
- DEVICE PLATES - PLASTIC - COLOR TO MATCH DEVICE.
- OUTLETS - PROVIDE OUTLET BOXES TO SUIT CONDITIONS ENCOUNTERED. BOXES SIZED TO ACCOMMODATE CONDUCTORS PER NEC. MINIMUM SIZE OF BOX FOR USE WITH RACEWAY SYSTEMS TO BE 4" SQUARE BY 1 1/2" DEEP.
- CIRCUIT BREAKERS AND SAFETY SWITCHES - GENERAL ELECTRIC, SQUARE D, ITE, WESTINGHOUSE OR CUTLER HAMMER CHALLENGER SAFETY SWITCH - HEAVY DUTY TYPE.

LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXIT LIGHT CEILING MOUNT		CAT-6 42" A.F.F.
	EXIT / EMERGENCY LIGHT WALL MOUNT W/ 90 MIN BATTERY BACKUP		CAT-6
	DUPLEX GROUNDED RECEPTACLE		LIGHT SWITCH, TOGGLE TYPE, SINGLE POLE, 20 AMP, 120v
	DUPLEX GROUNDED RECEPTACLE 42" A.F.F.		LIGHT SWITCH, TOGGLE TYPE, 3 POLE, 20 AMP, 120v
	208v RECEPTACLE		LIGHT SWITCH W/ PILOT LIGHT, SINGLE POLE, 20 AMP, 120v
	208v FEMALE RECEPTACLE 42" A.F.F.		EXHAUST FAN
	8 PIN FEMALE DATA		LED 4' STRIP WALL MOUNT 3000K
	8 PIN FEMALE DATA 42" A.F.F.		FLORESCENT 4' STRIP CEILING MOUNT (EXISTING)
	208v RECEPTACLE 42" A.F.F.		LED 1' x 4' SURFACE MOUNT 3000K
			LED 2' x 4' SURFACE MOUNT 3000K
			ELECTRICAL PANEL BOARD
			DISCONNECT
			THERMOSTAT
			WATER HEATER
			WEATHER PROOF
			WEATHER PROOF ENCLOSURE
			GROUND FAULT CURRENT INTERRUPTER
			HOMERUN / CIRCUIT #
			CONDUIT RUN 2#12 & 1#12 GRD - 1/2" C.
			OCCUPANCY SENSOR
			OCCUPANCY SENSOR W/ SWITCH

LIGHT FIXTURE SCHEDULE			
FIXTURE	MOUNTING		DESCRIPTION
	WALL	CEILING	
A		●	LED 2' x 4' SURFACE MOUNT 3000K
B		●	LED 1' x 4' SURFACE MOUNT 3000K
C	●		LED 4' STRIP WALL MOUNT 3000K
D		●	FLORESCENT 4' STRIP CEILING MOUNT (EXISTING)
E		●	EXIT LIGHT CEILING MOUNT W/ 90 MIN BATTERY BACKUP
F	●		EXIT / EMERGENCY LIGHT COMBO WALL MOUNT W/ 90 MIN BATTERY BACKUP

REMARKS:  
 1. PROVIDED BY CONTRACTOR APPROVED BY OWNER  
 2.  
 3.  
 4.  
 5.



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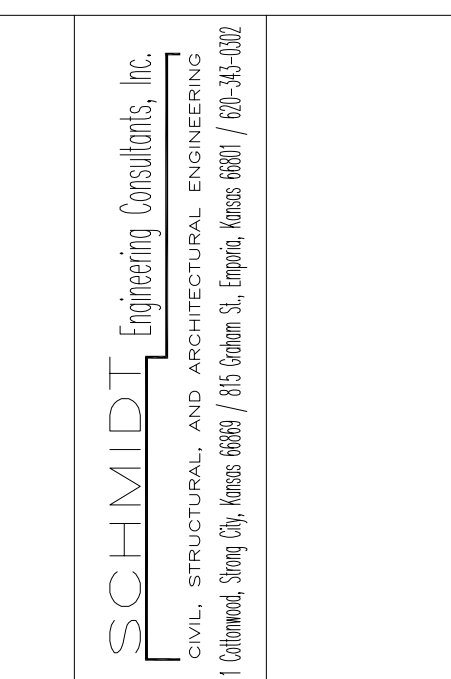
TECH SERVICES, LLC  
 Building Design  
 CAD/Modeling Services  
 Factory Built Consulting

Crititech, Inc  
 Production Laboratory Expansion  
 1475 Highway 40 LAWRENCE, KANSAS 66044

MARK	DATE	DESCRIPTION

PROJECT NO: 2017.004  
 CAD DWG FILE: 17.004 PLAN SET.DWG  
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 CHK'D BY: XXX  
 DATE: APRIL 07, 2017  
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PANEL SCHEDULE																				
PANEL: MDP (SUB)			VOLTS: 120 / 208 V						PHASE: 3											
AMPERE: 200			WIRE: 4			AIC RATING: 22,000			ENCLOSURE TYPE: NEMA 1											
LOCATION: <input type="checkbox"/> INDOOR DRY <input checked="" type="checkbox"/> OUTDOOR WET			MAINS: <input type="checkbox"/> BREAKER LUGS ONLY <input checked="" type="checkbox"/>			MOUNTING: <input type="checkbox"/> SURFACE FLUSH <input checked="" type="checkbox"/>														
<input checked="" type="checkbox"/> NEUTRAL BUS			<input checked="" type="checkbox"/> GROUND BUS			<input type="checkbox"/> INSOLATED GROUND BUS			<input checked="" type="checkbox"/> NEUTRAL BUS GROUND BONDING											
BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	POLE BKR	CKT NO.	ΦA			ΦB			ΦC			CKT NO.	POLE BKR	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION				
				→	→	→	→	→	→	→	→	→								
OPEN	12	3/30A	1	750	500								2	3/20A	12	-				
			3			750	500					4								
			5					750	500			6								
			7			750						8								
	12	3/30A	9					750					10	2/30A	12	-				
			11									12								
	PB-3 (EXISTING)	12	1/20A	13										14	1/20A	12	OPEN			
				15							10,275				16					
				17									11,550		18					
				19			10,825								20					
				21											22					
				23											24					
				25											26					
				27											28					
29														30						
31														32						
33														34						
35														36						
37														38						
39														40						
41														42						
TOTAL KVA / Φ:				750	12,075	750	11,525	750	12,050											
CONNECTED KVA:				12,825			12,275			12,800										
DEMAND FACTOR:				37,900																
DEMAND LOAD:				1.0			I = 105 A													
DEMAND LOAD:				37,900																



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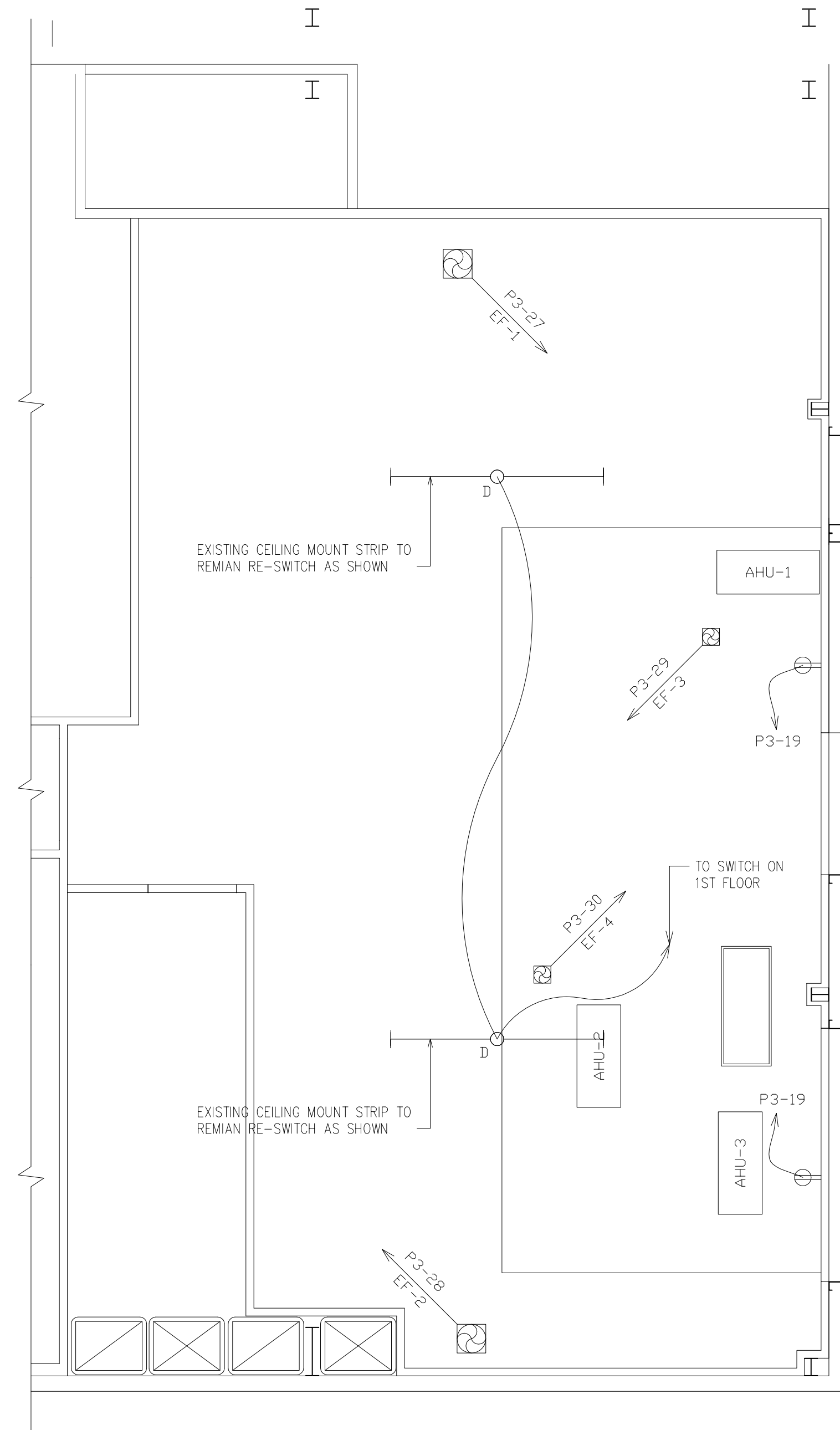
PANEL SCHEDULE																	
PANEL: P3 (EXISTING)			VOLTS: 120 / 208 V						PHASE: 3								
AMPERE: 100			WIRE: 4			AIC RATING: 22,000			ENCLOSURE TYPE: NEMA 1								
LOCATION: <input checked="" type="checkbox"/> INDOOR DRY <input type="checkbox"/> OUTDOOR WET			MAINS: <input type="checkbox"/> BREAKER LUGS ONLY <input checked="" type="checkbox"/>			MOUNTING: <input type="checkbox"/> SURFACE FLUSH <input checked="" type="checkbox"/>											
<input checked="" type="checkbox"/> NEUTRAL BUS			<input checked="" type="checkbox"/> GROUND BUS			<input type="checkbox"/> INSOLATED GROUND BUS			<input checked="" type="checkbox"/> NEUTRAL BUS GROUND BONDING								
BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	POLE BKR	CKT NO.	ΦA			ΦB			ΦC			CKT NO.	POLE BKR	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	
				→	→	→	→	→	→	→	→	→					
P5 SUB PANEL	6	3/60A	1	1,850	500								2	2/30A	10		
			3			2,425	500					4					
			5					1,975	225			6					
OPEN	12	1/20A	7									8	1/20A	12	RM 103 EXHAUST FAN		
			9			3,500						10	1/20A	12	OPEN		
AHU - #4	6	3/60A	11					3,500	225			12	1/20A	12	RM 103: S WALL CENTER OUTLET		
			13	3,500	225						14	1/20A	12	RM 103: S WALL CENTER OUTLET			
GREY WATER PUMP (NEW)	12	1/15A	15			225	350					16	1/20A	12	LIGHTS #2		
LIGHTS #1	12	1/20A	17							350	350	18	1/20A	12	RECEPTS #2		
RECEPTS #1	12	1/20A	19	350	350							20	1/20A	12	RECEPTS #4		
RECEPTS #3	12	1/20A	21			350	3,500					22					
SPARE	12	1/20A	23								3,500	24	3/60A	6	RTU - #4		
SPARE	12	1/20A	25		3,500							26					
EF-1 (NEW)	12	1/20A	27			350	350					28	1/20A	12	EF-2 (NEW)		
EF-3 (NEW)	12	1/20A	29					350	350			30	1/20A	12	EF-4 (NEW)		
TOTAL KVA / Φ:				5,700	4,575	6,850	4,700	6,175	4,650								
CONNECTED KVA:				10,275			11,550			10,825							
DEMAND FACTOR:				32,650													
DEMAND LOAD:				1.0			I = 91 A										
DEMAND LOAD:				32,650													

PANEL SCHEDULE																	
PANEL: P5 (SUB PANEL)			VOLTS: 120 / 208 V						PHASE: 3								
AMPERE: 100			WIRE: 4			AIC RATING: 22,000			ENCLOSURE TYPE: NEMA 1								
LOCATION: <input checked="" type="checkbox"/> INDOOR DRY <input type="checkbox"/> OUTDOOR WET			MAINS: <input type="checkbox"/> BREAKER LUGS ONLY <input checked="" type="checkbox"/>			MOUNTING: <input type="checkbox"/> SURFACE FLUSH <input checked="" type="checkbox"/>											
<input checked="" type="checkbox"/> NEUTRAL BUS			<input checked="" type="checkbox"/> GROUND BUS			<input type="checkbox"/> INSOLATED GROUND BUS			<input checked="" type="checkbox"/> NEUTRAL BUS GROUND BONDING								
BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	POLE BKR	CKT NO.	ΦA			ΦB			ΦC			CKT NO.	POLE BKR	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	
				→	→	→	→	→	→	→	→	→					
POWER CONTROL #1	6	2/20A	1	350	350								2	2/20A	10	POWER CONTROL #2	
			3			350	350					4					
POWER CONTROL #3	12	2/20A	5							350	350		6	2/20A	12	POWER CONTROL #4	
			7	350	350						8						
CU - #5	6	2/20A	9			225	350						10	2/20A	12	NITRO HEX	
			11							225	350	12					
CU - #6	12	2/15A	13	225	225								14	2/15A	12	CU - #7	
			15			225	225					16					
PORTABLE HEATER #1	12	2/20A	17							350	350		18	2/20A	12	PORTABLE HEATER #2	
			19	350	350						20						
SPARE			21									22				SPARE	
SPARE			23									24				SPARE	
TOTAL KVA / Φ:				925	925	1,150	1,275	925	1,050								
CONNECTED KVA:				1,850			1,425			1,975							
DEMAND FACTOR:				6,250													
DEMAND LOAD:				1.0			I = 18 A										
DEMAND LOAD:				6,250													

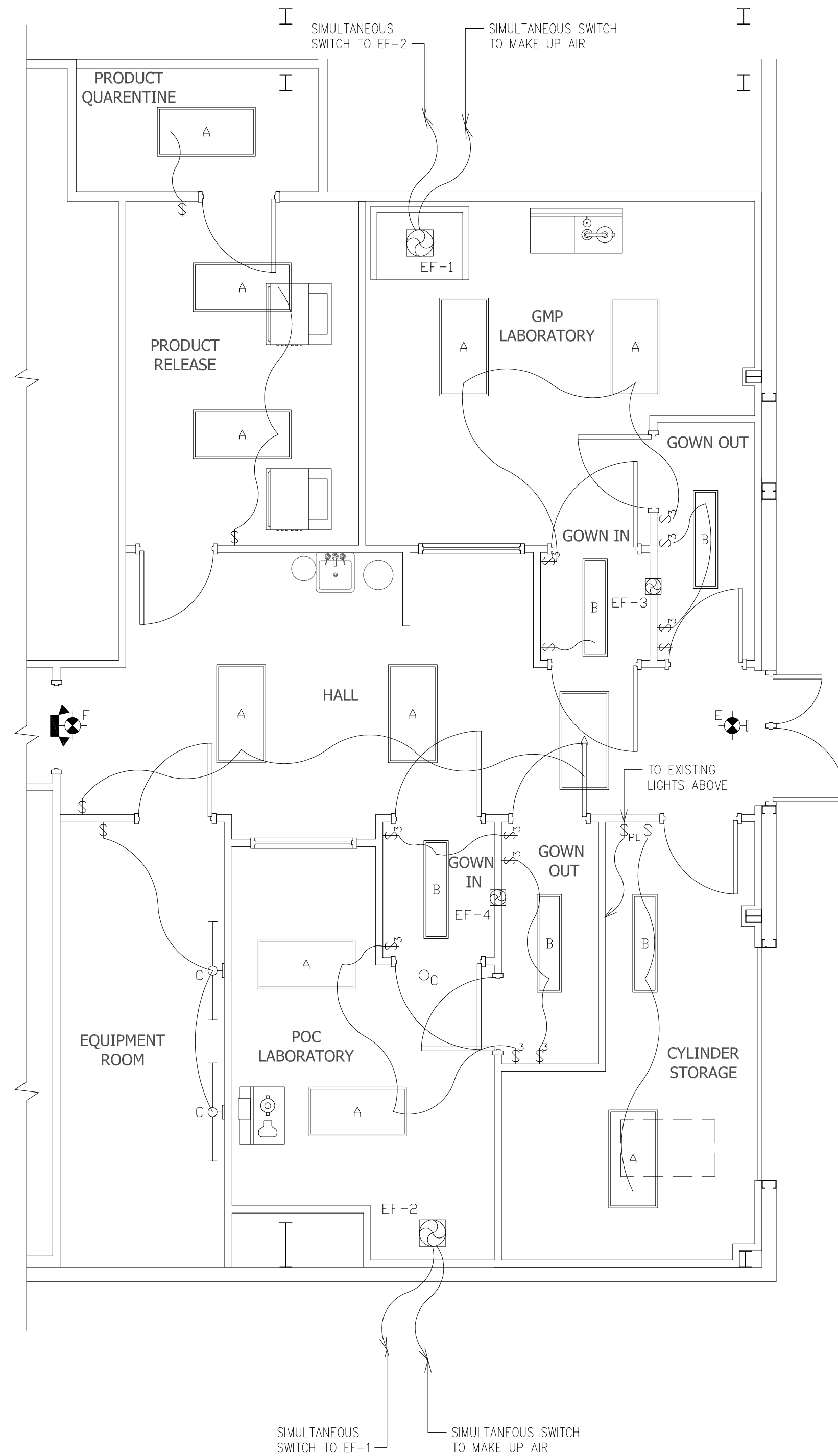
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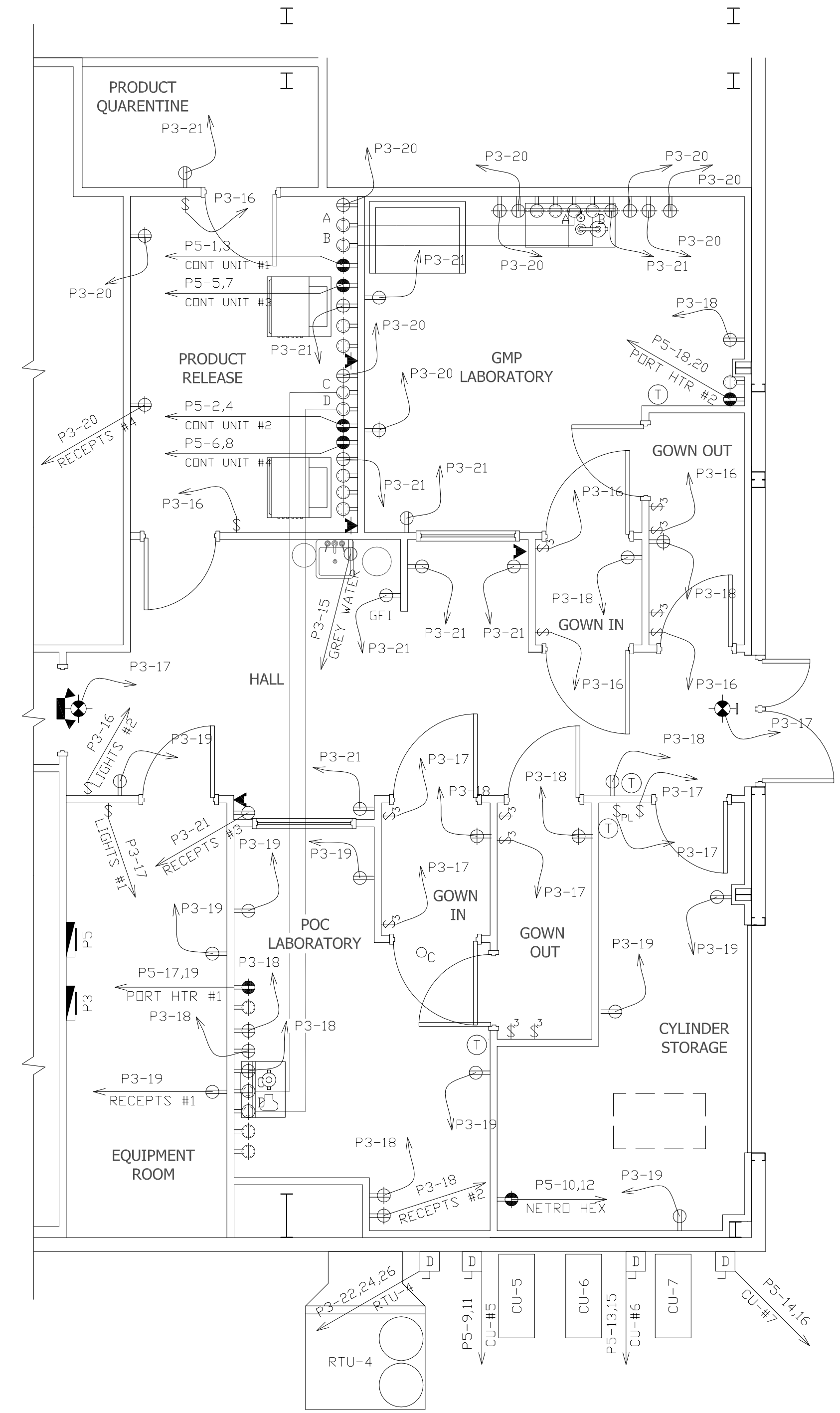
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**Production Laboratory Expansion**  
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**1 MECHANICAL PLATFORM POWER & LIGHTING PLAN**  
 Scale: 1/4" = 1'-0"



**2 GROUND LEVEL LIGHTING PLAN**  
 Scale: 1/4" = 1'-0"



**1 GROUND LEVEL POWER PLAN**  
 Scale: 1/4" = 1'-0"

MARK	DATE	DESCRIPTION

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**POWER PLAN**

**E-101**

PLUMBING FIXTURE SCHEDULE

PLAN MARK	FIXTURE MODEL	FIXTURE DESCRIPTION	FITTINGS AND TRIM	REMARKS	PLUMBING FIXTURE PIPE SIZE			
			FITTINGS AND DESCRIPTION		WASTE	VENT	CW	HW
P-1	BY OWNER	TOP MOUNT STAINLESS STEEL SINK, 1 HOLE SINK, WITH FAUCET HOLES ON 4" CENTERS. OR ACCEPTABLE EQUIVALENT. MOUNTING HEIGHT 34" AFF W/ EYE WASH STATION, 11 1/2" STAINLESS STEEL BOWL W/ TWO SPRAY HEADS, FLIP TOP DUST COVERS, 1/2" IPS CHROME PLATED BRASS STAY OPEN VALVE	4" CENTERSET FAUCET WITH 4" VANDAL-RESISTANT METAL LEVER HANDLE, 1/2" CONNECTIONS, AND GRID DRAIN WITHOUT POP-UP HOLE. 2.0 GPM SPRAY, 1/2" NPT FEMALE INLET, 1/4" NPT FEMALE OUTLET	1	1 1/4"	---	1/2"	1/2"
P-2	BY OWNER	5 GALLON BASIN, 1/2 HP MOTOR, 2" VENT, 1 1/2" DISCHARGE	INTAKE 2" SLIP X 1 1/2" MNPT ADAPTER, DISCHARGE 2" SLIP X 1 1/2" MNPT ADAPTER, VENT 2" MNPT ADAPTER, 1 1/2" VENT REQUIRES 1 1/2" SLIP ADAPTER	2	1 1/2"	1 1/2"	---	---
REMARKS: 1. PROVIDE CHROME-PLATED BRASS TAILPIECE AND GRID DRAIN. 2. INTAKE 2" SLIP X 1 1/2" MNPT ADAPTER PROVIDED, 2" MNPT ADAPTER FOR VENT PROVIDED. 3. 4.								

PLUMBING:

GENERAL

- DWV SYSTEMS ROUGH IN AND FINISHED PLUMBING SHALL BE TESTED PER IPC 312.3
- WATER SUPPLY SYSTEM SHALL BE TESTED PER IPC 312.5
- PIPING IN CONCEALED LOCATIONS, INSTALLED THROUGH FRAMING MEMBERS SHALL BE PROTECTED BY SHIELD PLATES WHEN LESS THAN 1 1/2" FROM MEMBER EDGE.
- PIPING SHALL BE SUPPORTED PER IPC 308

WATER SUPPLY

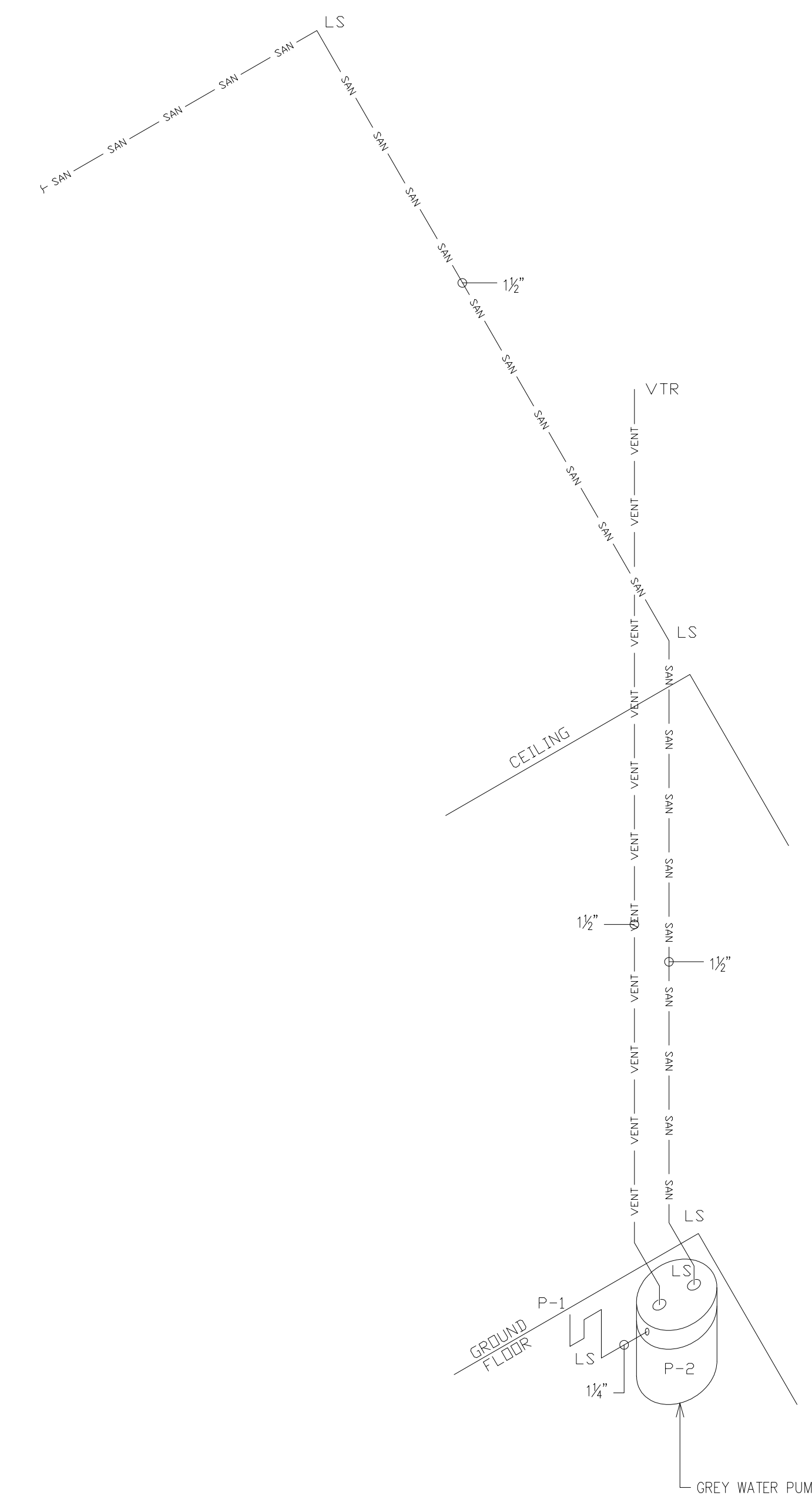
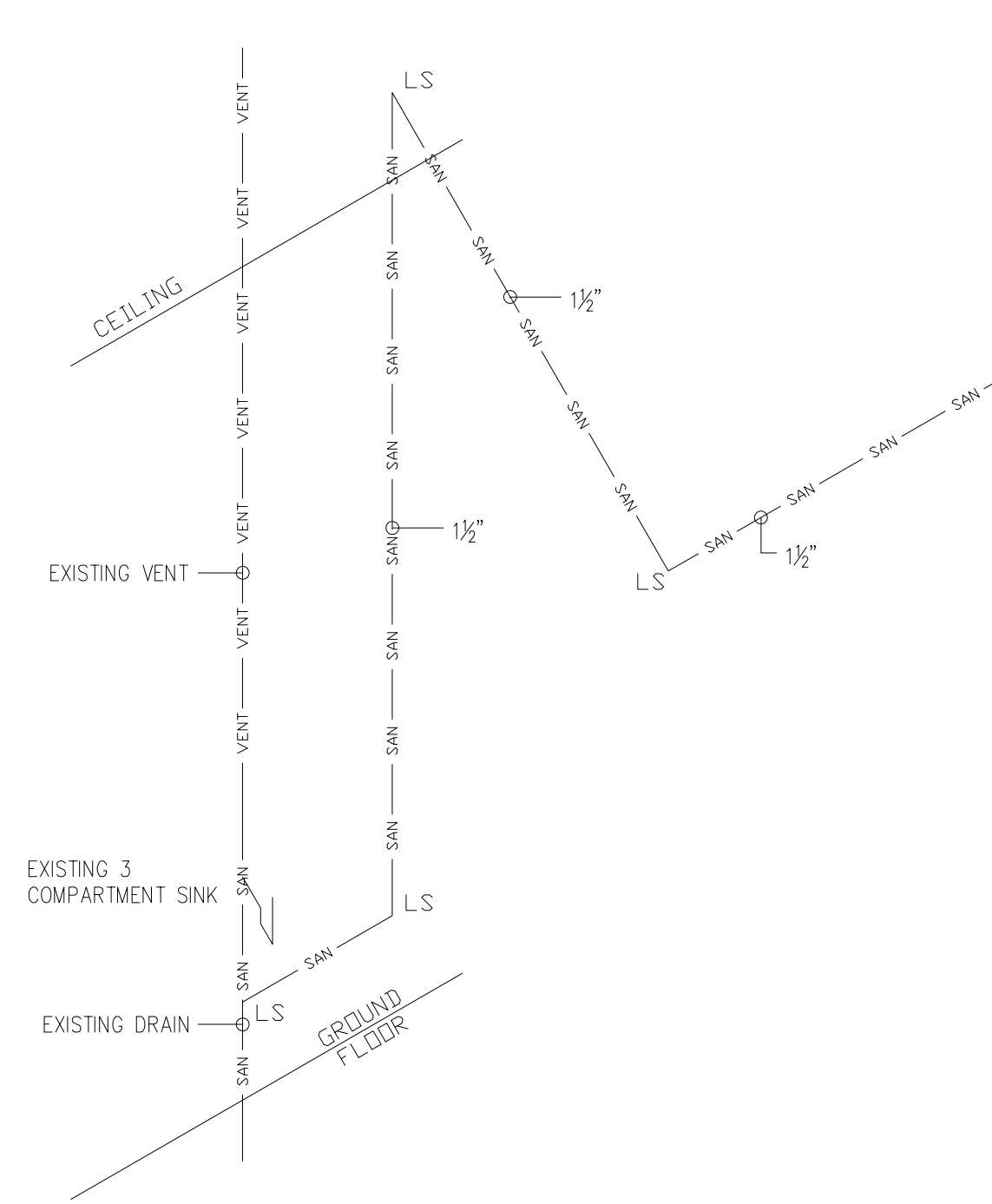
- FULL OPEN VALVE SHALL BE PROVIDED AT THE WATER SERVICE ENTRANCE PER IPC 606.
- THE WATER SUPPLY SHALL BE PROTECTED FROM CONTAMINATION PER IPC 608
- WATER SUPPLY MAINS, BRANCHES, AND RISERS SHALL BE SIZED PER IPC 604 (PRESSURE RANGE - 40 TO 49 PSI)
  - MINIMUM WATER SERVICE SHALL BE 3/4"
  - MINIMUM BRANCH MAINS SHALL BE 3/4"
  - BRANCH MAINS SHALL BE 1/2" WITH LESS THAN 3 FIXTURES UNITS
- 1/4 TURN 1/2" SHUT OFF VALVES SHALL BE PROVIDED AT EACH PLUMBING FIXTURE PER IPC 606.2.
- WATER SUPPLY PIPING SHALL BE INSULATED PER IPC SEC 607.2.
- TEMPERATURE LIMITING DEVICES SHALL BE INSTALLED AT LAVATORIES AND SINKS PER IPC SEC. 607.1.
- WATER HAMMER ARRESTORS SHALL BE INSTALLED ON QUICK CLOSING VALVES PER IPC 604.9.
- THERMAL EXPANSION CONTROL SHALL BE PROVIDED PER IPC 607.3

DRAIN, WASTE, AND VENT

- DRAIN, WASTE, AND VENT (DWV) PIPING SHALL BE SCHEDULE 40 PVC UNLESS NOTED OTHERWISE
- PVC PIPING SHALL BE SUPPORTED PER IRC TABLE 308.5 48" MAXIMUM HORIZONTAL SPACING
- CHANGE IN DIRECTION IN THE DRAINAGE PIPING SHALL BE PER IPC 706
  - VERTICAL TO HORIZONTAL, LONG SWEEP FITTING
  - HORIZONTAL TO HORIZONTAL, LONG SWEEP FITTING
- DRAINAGE PIPING CLEANOUTS SHALL BE PROVIDED PER IPC 706
- STAND PIPES SHALL BE A MINIMUM 18" AND A MAXIMUM OF 42" ABOVE THE TRAP PER IPC 802.4
- OPEN VENT PIPES THAT EXTEND THROUGH THE ROOF SHALL TERMINATE 12" MIN. ABOVE THE ROOF.
- VENTS SHALL BE SIZED PER IPC 908 MINIMUM VENT THROUGH THE ROOF SHALL BE ONE HALF THE REQUIRED BUILDING SEWER
- VENTS THROUGH THE ROOF SUBJECT TO FROST CLOSURE SHALL BE A MINIMUM OF 3", VENTS LESS THAN 3" SHALL BE INCREASED IN SIZE A MINIMUM OF 12" BELOW THE ROOF PER IPC SEC 904.2.
- MAXIMUM DISTANCE OF FIXTURE TRAP FROM VENT SHALL BE PER IPC TABLE 906.1.
- PVC PIPING SHALL BE PROTECTED FROM UV EXPOSURE.

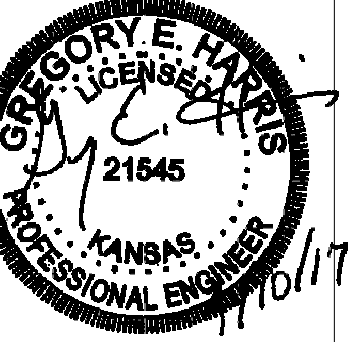
CONSTRUCTION NOTES:

- DRAINAGE PIPING SHALL BE INSTALLED WITH A 1/4" PER FOOT SLOPE.
- PROVIDE 1/2" HOT WATER AND 1/2" COLD WATER CONNECTIONS TO PLUMBING FIXTURES AS INDICATED ON THE DRAWINGS.



**1** DWV RISER DETAIL  
Scale: NOT TO SCALE

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WICHITA, KS 67226

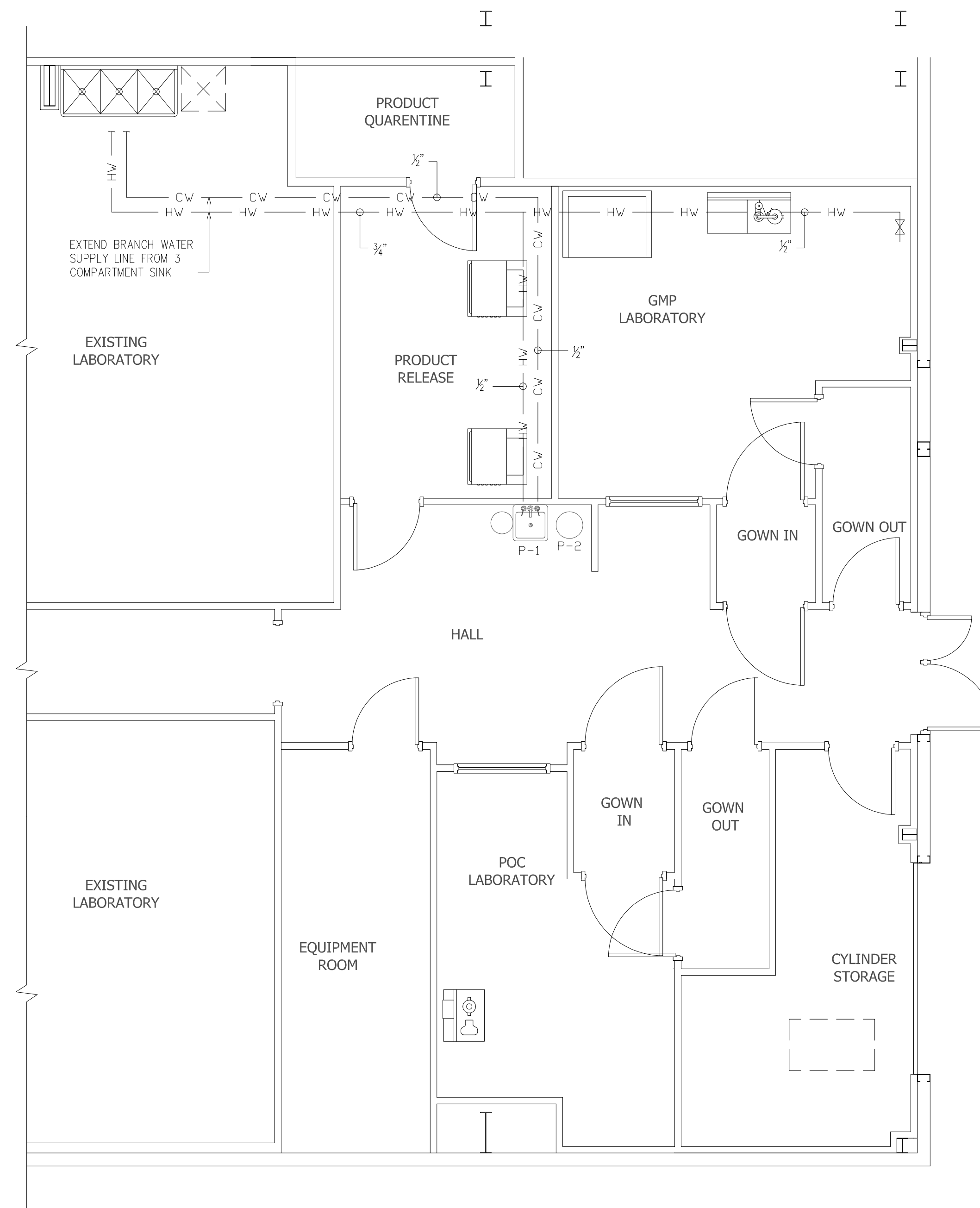


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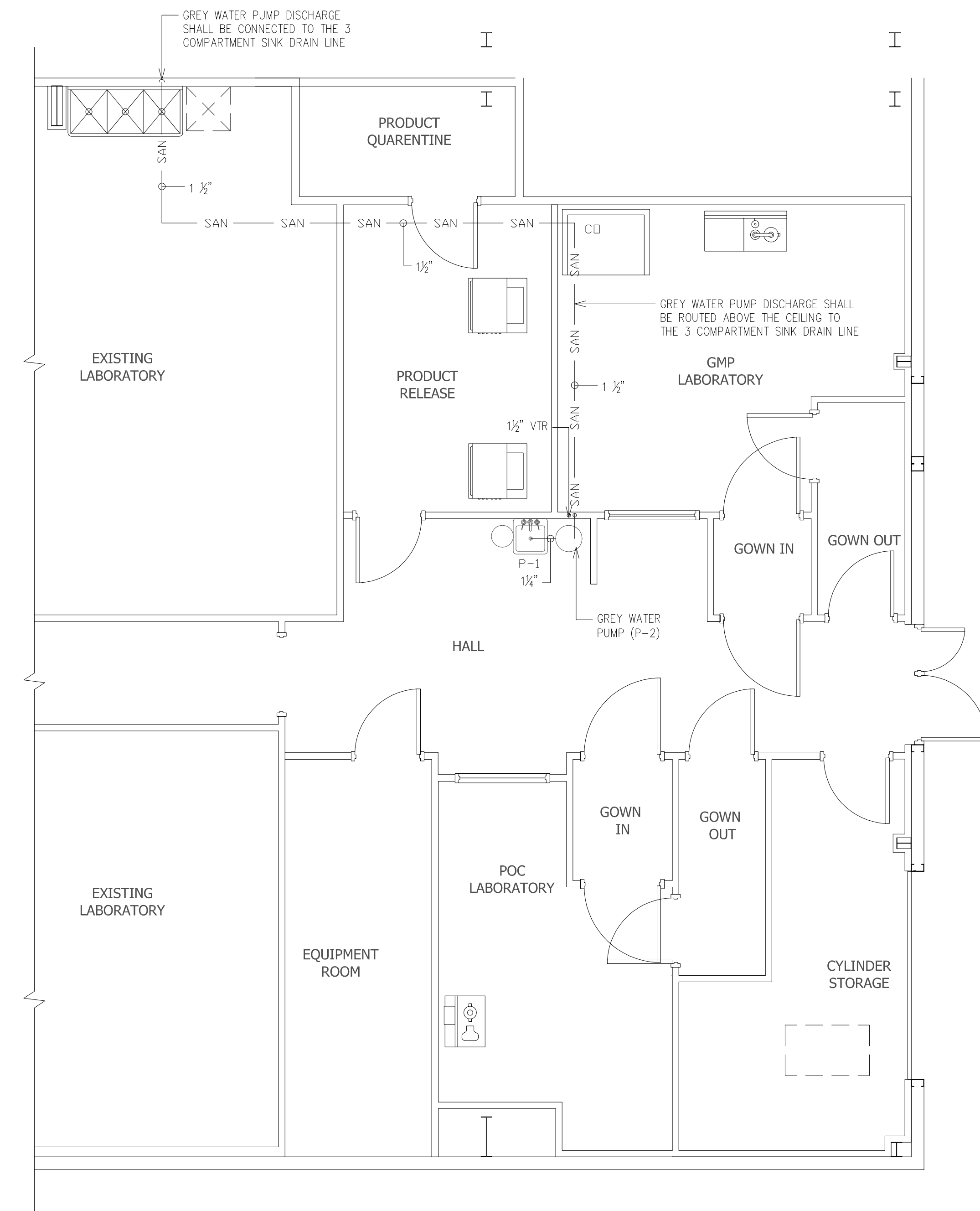
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**PLUMBING NOTES**

**P100**  
SHEET 1 OF 2

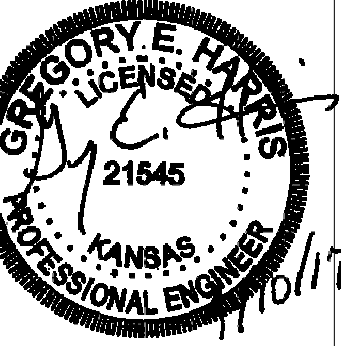


**2** GROUND LEVEL PLAN SUPPLY PIPING  
Scale: 1/4" = 1'-0"



**1** GROUND LEVEL PLAN DWV PLAN  
Scale: 1/4" = 1'-0"

GREGORY E. HARRIS P.E.  
7272 E. 37th ST N #1205  
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**DRAIN, WASTE, & VENT PLAN**