

24"x36" SCALE:	AS NOTED
PLOT DATE:	2023-03-14
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JOB NUMBER:	22-054
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DRAWN:	CT
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# A0.02

## DEVELOPMENT SERVICES DEPARTMENT

-2-





## SITE PLAN

SCALE: 1/32" = 1'-0"



### PROJECT TEAM

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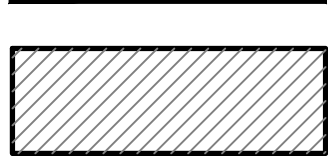
PM CONTACT: KHOSHAL RAZ  
khoshalraz@gmail.com

### LEGEND

(E) AREA OF BUILDING IN SCOPE



(E) BUILDING(S) NOT PART OF SCOPE



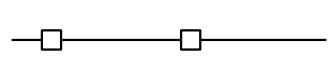
PROPERTY LINE



EXISTING EGRESS PATH



EXISTING FENCING SURROUNDING PROPERTY

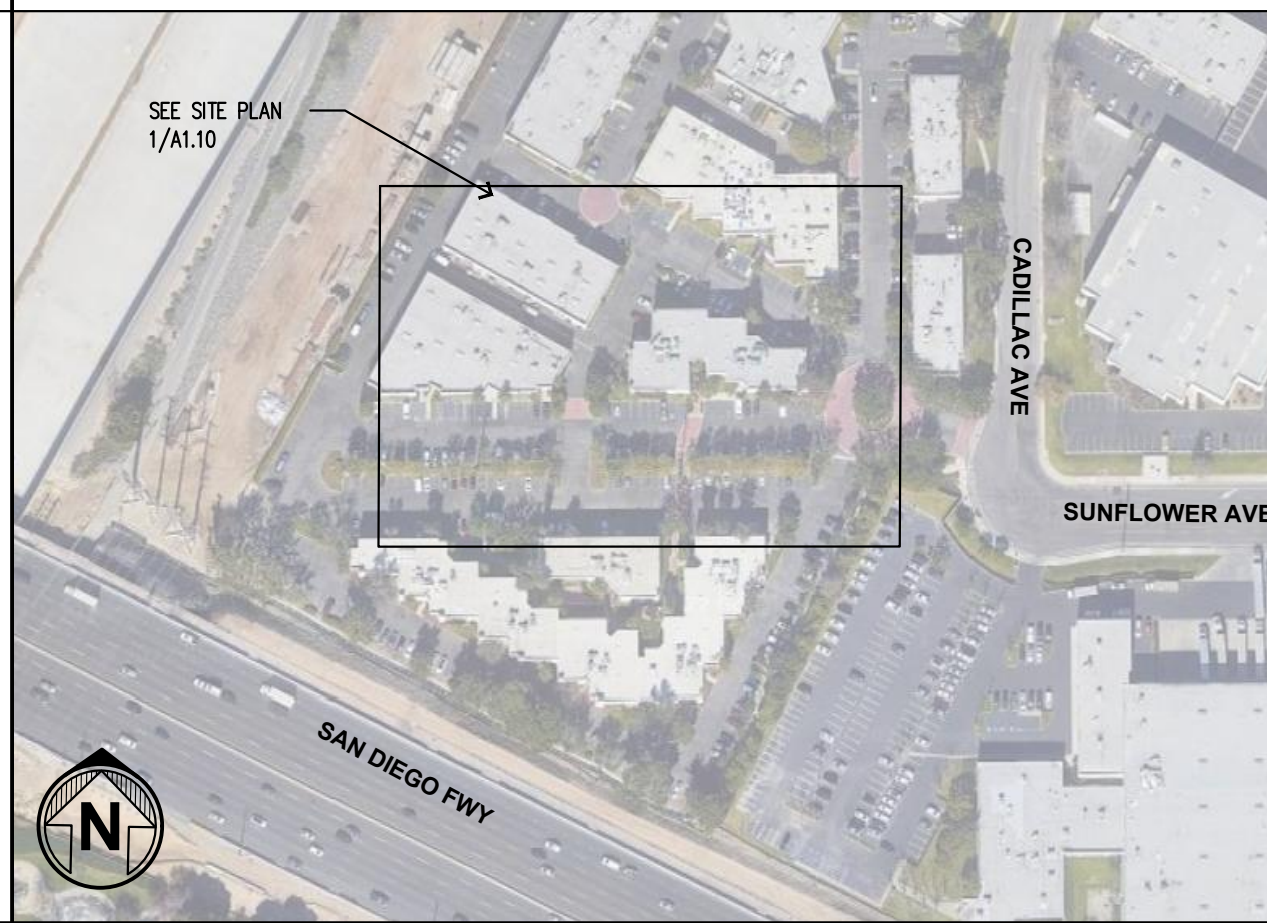


UNLOADING/LOADING PARKING FOR DELIVERY AND DISTRIBUTION VEHICLES



-3-

### VICINITY MAP



### KEY NOTES

- EXISTING BUILDING TO REMAIN.
- AREA OF WORK. SEE SHEET A2.10 FOR FLOOR PLAN.
- MAIN ENTRY TO PROJECT.
- DIRECT ROUTE, ACCESSIBLE PATH OF TRAVEL. THERE SHALL BE NO ABRUPT CHANGES IN ELEVATION ALONG THE PATH OF TRAVEL SHOWN. THE SLOPE AND CROSS-SLOPE ALONG THE PATH OF TRAVEL SHALL NOT EXCEED 5% AND 2% RESPECTIVELY.
- EXISTING TRUNCATED DOMES TO REMAIN.
- EXISTING PUBLIC RIGHT OF WAY.
- EXISTING ADA COMPLIANT PARKING TO REMAIN.
- EXISTING PROPERTY LINE.
- EXISTING TRASH ENCLOSURE TO REMAIN.
- UNLOADING/LOADING PARKING FOR DELIVERY AND DISTRIBUTION VEHICLES. DISTANCE OF THE PATH OF TRAVEL FROM THE VEHICLE TO THE FACILITY IS 101'-4".
- EXISTING FENCING- CHAINLINK, 5 FEET TALL TO REMAIN.

GENERAL SITE PLAN NOTE: NO EXTERIOR ALTERATIONS ARE PROPOSED TO THE EXISTING SITE. ALL ACCESSIBLE PATHS OF TRAVEL AND ACCESSIBLE PARKING HAVE BEEN EVALUATED AND APPEAR TO BE WITHIN COMPLIANCE.



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NON-STOREFRONT RETAIL - DELIVERY

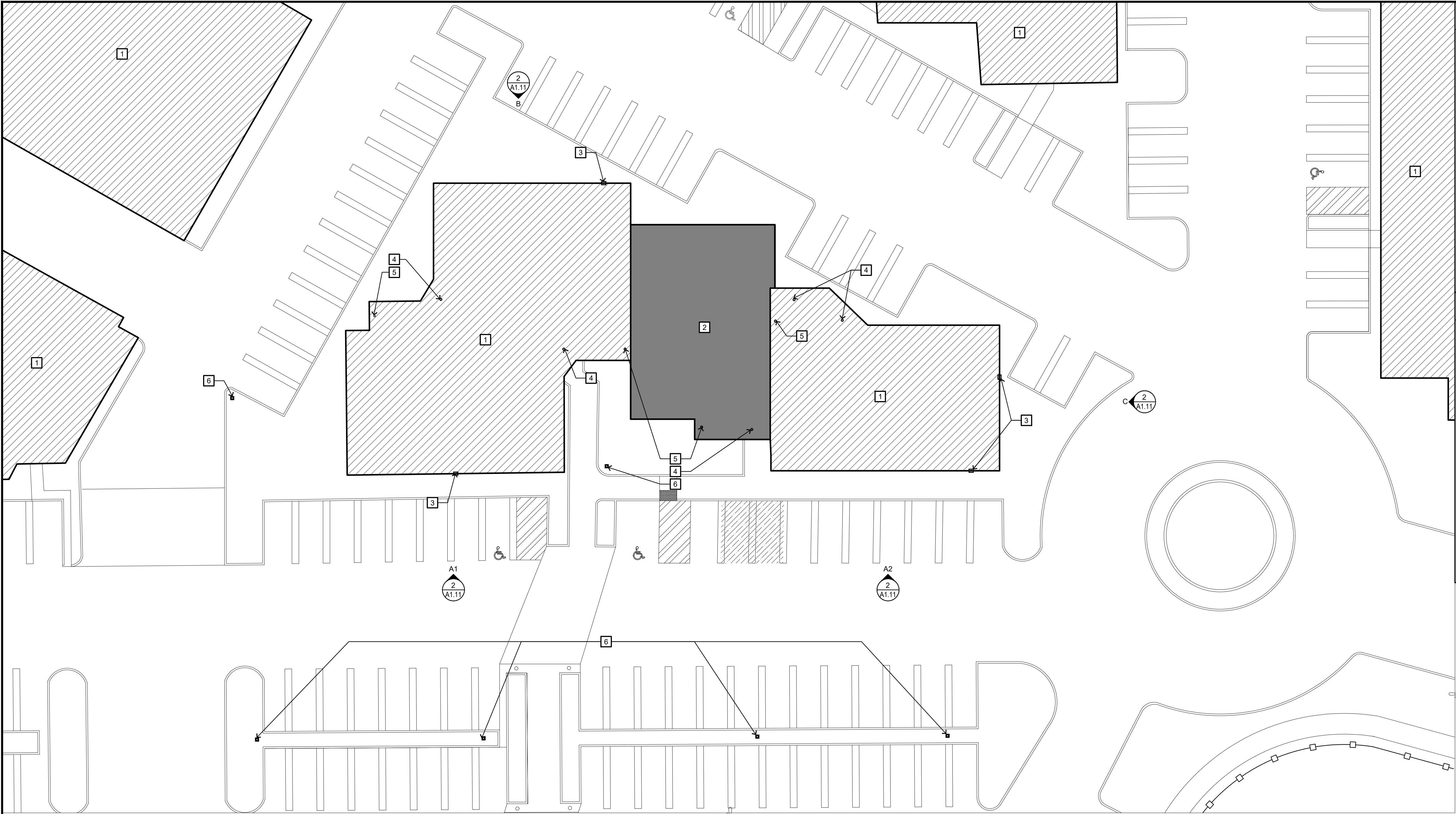
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COSTA MESA, CA 92626

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SITE PLAN  
**A1.10**





### KEY NOTES

- 1 EXISTING BUILDING TO REMAIN.
- 2 AREA OF WORK. SEE SHEET A2.10 FOR FLOOR PLAN.
- 3 EXISTING FLOOD LIGHTS AT ROOF. SEE DETAIL 2/A1.10 FOR REFERENCE.
- 4 EXISTING RECESSED DOWNLIGHTING AT FIRST FLOOR AT 107.2' AFF (FRONT OF BUILDING) & 120.4' AFF (BACK OF BUILDING).
- 5 EXISTING RECESSED DOWNLIGHTING ABOVE STAIR LANDING AT 259.3' FROM FIRST FLOOR.
- 6 EXISTING EXTERIOR LIGHT POST.

### LEGEND

(E) AREA OF BUILDING IN SCOPE	
(E) BUILDING(S) NOT PART OF SCOPE	
(E) EXTERIOR LIGHT POST	
(E) EXTERIOR FLOOD LIGHTS	
(E) RECESSED LIGHTS	



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1 EXTERIOR LIGHTING PLAN  
SCALE: 1/16" = 1'-0"



2 EXISTING FLOOD LIGHTS  
N.T.S.

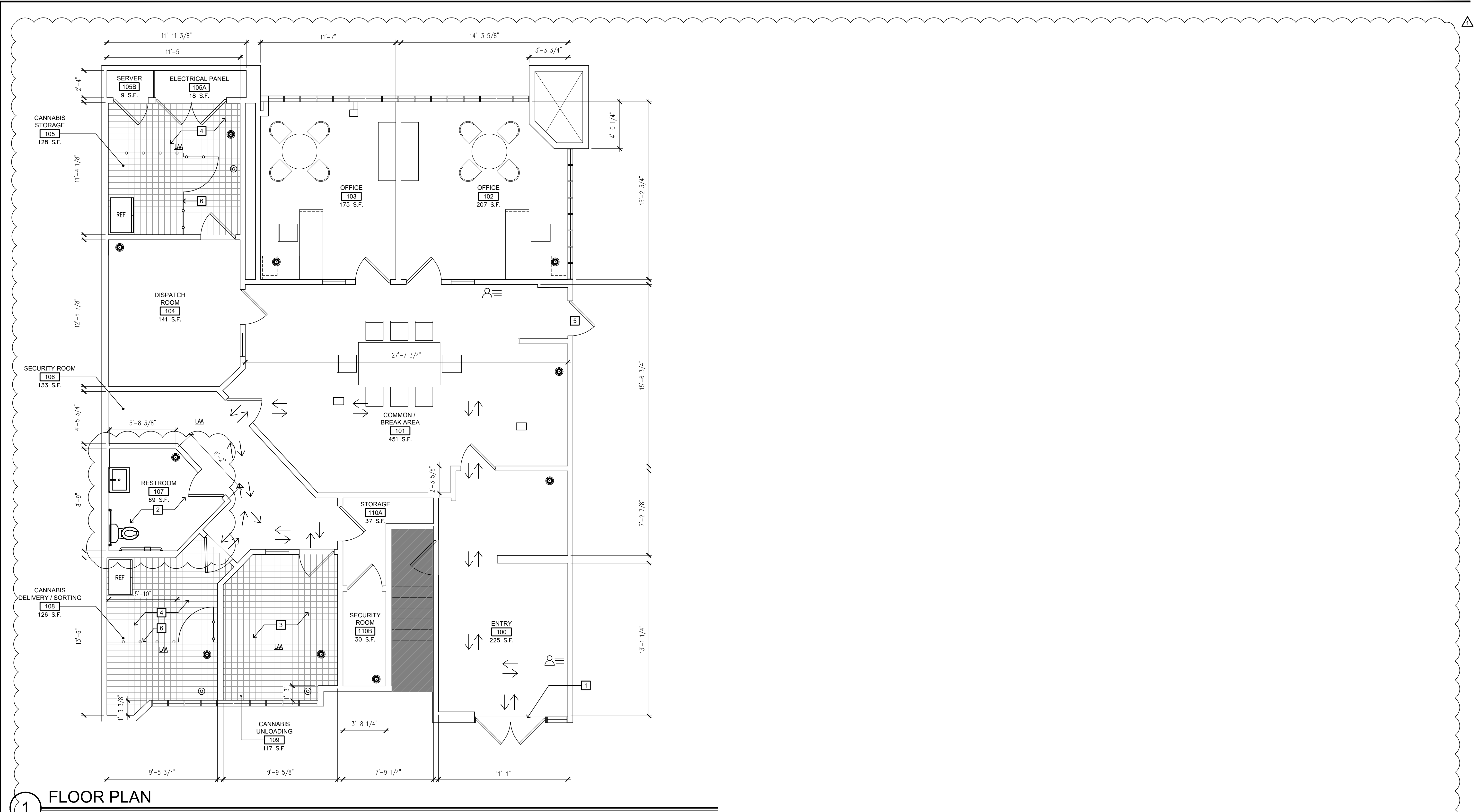
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EXTERIOR LIGHTING PLAN

A1.11





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



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FLOOR PLAN  
**A2.10**

EXHAUST FANS & FILTRATION FAN (FILTRATION FAN IS AN OWNER/TENANT PROVIDED ITEM)											
UNIT TAG NO.	MANUFACTURER & MODEL NO.	QTY.	SERVICE	AIR QUANTITY (CFM)	ESP (IN.)	FAN RPM	FAN TYPE	ELECTRICAL FAN HP VOLTAGE (V/PH/Hz)	OPERATING WEIGHT (LBS)	REMARKS	
EF 1	GREENHECK SP-A110	1	RESTROOM	105	0.25	950	CEILING MOUNTED	18 WATTS	120/1/60	10	PROVIDE CURB-MOUNT ROOF CAP. INTERLOCK WITH LIGHT SWITCH
FF 1	AC INFINITY AI-CLT6	1	SEE PLAN	402	-	-	CEILING SUSPENDED	64 WATTS	120/1/60	20	OWNER/TENANT PROVIDED
FF 2	AC INFINITY AI-CLT6	1	SEE PLAN	402	-	-	CEILING SUSPENDED	64 WATTS	120/1/60	20	OWNER/TENANT PROVIDED

1

FILTERS						
UNIT TAG NO.	MANUFACTURER & MODEL NO.	CFM CAPACITY	FILTER TYPE	MERV RATING	SIZE L x DIA	REMARKS
FB 1	VIVOSUN 6"	402	ACTIVATED CARBON WITH PRE-FILTER	-	18"x6"ø	OWNER/TENANT PROVIDED FOR ODOR CONTROL
FB 2	VIVOSUN 6"	402	ACTIVATED CARBON WITH PRE-FILTER	-	18"x6"ø	OWNER/TENANT PROVIDED FOR ODOR CONTROL

1

GENERAL NOTES:

1.

ALL TYPES OF DUCTWORK SHALL BE CONSTRUCTED ,ERECTED & TESTED IN ACCORDANCE STRICT LOCAL REGULATIONS & PROCEDURES DETAILED IN THE A.S.H.R.A.E. HANDBOOK OF FUNDAMENTALS OR THE APPLICABLE STANDARDS ADOPTED BY S.M.A.C.N.A. ALL DUCTWORK SHALL BE EITHER RECTANGULAR DUCTS OF GALVANIZED STEEL OR PREFABRICATED SPIRAL LOCK-SEAM DUCTS & FITTINGS OF GALVANIZED STEEL.

2.

DUCT DIMENSIONS ARE NET CLEAR (AIRWAY SIZE), WHERE SOUND INSULATION IS INDICATED ON DRAWINGS, THAT IS, AFTER INSULATION HAS BEEN INSTALLED.

3.

ALL DRAWINGS SHALL BE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW & OVERALL COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, AIR CONDITIONING, PLUMBING AND ELECTRICAL. ANY AND ALL DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO THE START OF CONSTRUCTION SO AS TO RECTIFY THE ISSUE. ANY AND ALL WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS AND/OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND NO EXPENSE INCURRED BY THE OWNER.

4.

DO NOT SCALE DRAWINGS – ALL DIMENSIONS & EXISTING JOB SITE CONDITIONS SHALL BE CONFIRMED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO BID SUBMITTAL, START OF CONSTRUCTION AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CLARIFICATION.

5.

ALL WORK SHALL COMPLY WITH 2019 CALIFORNIA MECHANICAL CODE, CITY CODES, STATE OF CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS AND ANY AND ALL OTHER APPLICABLE CODES.

6.

ALL SUPPLY & RETURN DUCTWORK SHALL BE INSULATED WITH OWENS/CORNING TYPE 75 FIBERGLASS INSULATION WITH VAPOR BARRIER, & WITH THICKNESS AND MIN. R" VALUE AS SPECIFIED ON THE PLANS OR SPECIFICATIONS.

7.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL DUCT, PIPE AND EQUIPMENT LOCATIONS W/ELECTRICAL, STRUCTURAL, PLUMBING AND ALL OTHER TRADES.

8.

ALL CEILING MOUNTED SUPPLY AIR DIFFUSERS ARE 4-WAY THROW UNLESS SHOWN OTHERWISE.

9.

MINIMUM OUTDOOR AIR REQUIREMENTS SHALL COMPLY WITH CALIFORNIA 2019 BUILDING ENERGY EFFICIENCY STANDARDS SECTION 120.1(b).

10.

ALL PIPING AND DUCTWORK INSULATION SHALL COMPLY WITH CA 2019 BUILDING ENERGY EFFICIENCY STANDARDS SECTIONS 120.4 AND SECTIONS 601,602,603,604, AND 605 OF THE C.M.C. STANDARDS.

11.

ALL H.V.A.C. CONTROL SYSTEMS SHALL COMPLY WITH CALIFORNIA 2019 BUILDING ENERGY EFFICIENCY STANDARDS SECTION 120.2 and 140.4.

12.

ALL H.V.A.C. EQUIPMENT AND APPLIANCES SHALL COMPLY WITH CALIFORNIA 2019 BUILDING ENERGY EFFICIENCY STANDARDS SECTION 110.1 & 110.2.

13.

THE CONTRACTOR SHALL SUPPLY ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION & SERVICES NECESSARY FOR COMPLETION OF THE WORK. ALL MATERIALS & WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES & GOVERNING REGULATIONS AND SHALL MEET OR EXCEED WITH THE APPROVAL OF THE CITY & STATE FIRE MARSHAL.

14.

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROTECTION & PROVIDE REPAIR OF ADJACENT EXISTING SURFACES, AREAS & PROPERTY THAT MAY BE DAMAGED AS A RESULT OF ANY DEMOLITION AND/OR NEW WORK.

15.

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING DIFFUSERS AND GRILLES.

16.

REFER TO ARCHITECTURAL DRAWINGS FOR ROOF ACCESS & ADDITIONAL ENERGY CONSERVATION NOTES.

17.

REFER TO PLUMBING DRAWINGS FOR PRIMARY & SECONDARY CONDENSATE DRAINS.

18.

ALL SA & RA OUTLETS FOR FUTURE CONNECTIONS SHALL BE INSTALLED SO AS TO PERMIT EASY CONNECTION. COORDINATE DUCTWORK, STRUCTURAL CONDITIONS AND ARCHITECTURAL LAYOUT.

19.

ALL A/C UNIT CONDENSATE DRAIN PIPE SHALL BE INSTALLED PER THE PLUMBING PLANS. ALL INTERIOR CONDENSATE DRAIN PIPING SHALL BE INSULATED.

20.

CONTRACTOR SHALL VERIFY ALL EXISTING RE-USED EQUIPMENT OR CONTROLS AND PROVIDE REPLACEMENT PARTS INCLUDING BUT NOT LIMITED TO, BELTS, PULLEYS, SHEAVES, FILTERS, WORN PARTS, VAV/VVT DAMPERS AND ALL CONTROL COMPONENTS, AS NEEDED TO BRING A/C UNITS, A/C SYSTEMS AND A/C CONTROLS UP TO FULL OPERATIONAL STATUS.

21.

ACCESS TO ROOF MOUNTED EQUIPMENT SHALL COMPLY WITH SECTION 304 OF THE 2019 CMC.

22.

ALL APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED AND SIESMICALLY BRACED AS PER BUILDING CODE REQUIREMENTS.

23.

ALL APPLIANCE, PLUMBING VENTS AND THE DISCHARGE OUTLET OF EXHAUST FANS SHALL BE A MINIMUM OF 10 FEET IN A HORIZONTAL DIRECTION, OR A MINIMUM OF 3 FEET ABOVE THE OUTSIDE AIR INTAKE OF HVAC UNITS (OSHPD PROJECTS SHALL BE MIN. 25'-0" AWAY).

24.

THERMOSTATS SHALL HAVE THE CAPABILITY OF BEING SET TO MAINTAIN ROOM SPACE TEMPERATURE SET POINTS FROM 55F. TO 85F. AND SHALL OPERATE THE HEATING AND COOLING IN SEQUENCE. PROVIDE THERMOSTATS THAT CAN BE ADJUSTED FOR A TEMPERATURE RANGE OF UP TO 5F. BETWEEN FULL HEATING & FULL COOLING BEING SUPPLIED. THERMOSTAT CONTROLS SHALL HAVE THE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NOT MORE THAN 70F. AND COOLING AT A TEMPERATURE NOT LESS THAN 78F.

25.

ALL THERMOSTATS SHALL BE MOUNTED 48" AFF SO AS TO BE IN COMPLIANCE WITH A.D.A. REQUIREMENTS.

26.

GENERAL CONTRACTOR SHALL COMPLY W/ 2019 CMC SEC. 310 BY PROVIDING SERVICE RECEPTACLE WITHIN IN 25' OF UNIT.

27.

AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE TO ENCLOSED SPACES WITHING BUILDINGS SHALL BE EQUIPPED WITH AUTOMATIC SHUTOFF. CMC 608.1

28.

BALANCING VOLUME DAMPERS SHALL BE INSTALLED IN EACH BRANCH DUCT AND IN EACH MAIN DUCT TO ENSURE FOR COMPLETE AIR BALANCING. FURNISH EACH MANUAL VOLUME DAMPER WITH BEARINGS AND AN ADJUSTING DEVICE HAVING A LOCKING MECHANISM. PROVIDE ACCESS PANELS TO VOLUME DAMPERS IF CONCEALED OR INACCESSIBLE THROUGH CEILING OR WALL. WHERE ACCESS PANELS ARE NOT DESIRED, PROVIDE REMOTE CABLE CONTROL DAMPER ASSEMBLIES. ALL VOLUME DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE PROVIDED WITH EITHER CEILING ACCESS PANELS OR REMOTE CABLE CONTROL DAMPER ASSEMBLY WHETHER OR NOT SHOWN ON THE DRAWINGS.

29.

AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM, PER 2019 CBSC SECT 5.504.3

30.

CONTRACTOR SHALL REFERENCE ALL MECHANICAL DETAILS REGARDLESS IF DETAILS ARE NOTED IN THE PLANS. IF A DETAIL IS NOT REFERENCED ON THE PLAN, CONTRACTOR SHALL FOLLOW MOST RELEVANT DETAIL FOR CONSTRUCTION.

31.

INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 110.8 ENERGY EFFICIENCY STANDARDS (E.E.S.)

32.

DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTIONS 110.6 AND 110.7 E.E.S.

MECHANICAL SCHEDULES

3

GENERAL NOTES

2

LEGEND

1

SYMBOL	ABBR	DESCRIPTION
	POC	POINT OF CONNECTION
		REMOVE EXIST. EQUIP. OR PIPES WITH HATCHING
		DUCT RISER (R) OR DUCT DROP (D)
		DUCT WITH SOUND INSULATION
		SUPPLY AIR DUCT SECTION
		RETURN AIR DUCT SECTION
	D.L./U.C.	DOOR LOUVER OR UNDERCUT DOOR
		ROOM THERMOSTAT WITH ZONE NUMBER
		SENSOR NUMBER WITH ZONE NUMBER
		CARBON DIOXIDE SENSOR NUMBER WITH ZONE NUMBER
	CDWS	CONDENSER WATER SUPPLY
	CDWR	CONDENSER WATER RETURN
	CHWS	CHILLED WATER SUPPLY
	CHWR	CHILLED WATER RETURN
	HHWS	HEATING HOT WATER SUPPLY
	HHWR	HEATING HOT WATER RETURN
	RL	REFRIGERANT LIQUID
	RS	REFRIGERANT SUCTION
	RD	REFRIGERANT
	D	AUTOMATIC MOTORIZED DAMPER
	VD	VOLUME DAMPER (MANUAL)
	(N) FD	FUSIBLE LINK FIRE DAMPER
	(N) SFD	COMBINATION SMOKE & FIRE DAMPER
	(E) FD	EXISTING FUSIBLE LINK FIRE DAMPER
	(E) SFD	EXISTING COMBINATION SMOKE & FIRE DAMPER
	GV	GATE VALVE
	GLV	GLOBE VALVE
	CHV	CHECK VALVE
	BV	BALL VALVE
	BFV	HEATING HOT WATER SUPPLY
	BC	HEATING HOT WATER RETURN
	RED	REDUCER
	STR	STRAINER
	U	UNION
	PG	PRESSURE GAUGE
	TH	THERMOMETER
	AV	AIR VENT VALVE
	CV	CONTROL VALVE
	PRV	PRESSURE REDUCING VALVE
	P&T RV	PRESSURE & TEMPERATURE RELIEF VALVE
		PIPE ANCHOR
	SD	SMOKE DETECTOR
	AD	ACCESS DOOR
	AFF	ABOVE FINISHED FLOOR
	AP	ACCESS PANEL
	BDD	BACK DRAFT DAMPER
	CD	CEILING DIFFUSER
	CFM	CUBIC FEET PER MINUTE (AIR QUANTITY)
	CA	COMBUSTION AIR
	DTR	DOWN THRU ROOF
	EA	EXHAUST AIR
	EAG	EXHAUST AIR GRILLE
	EAR	EXHAUST AIR REGISTER
	EP	ELECTRIC - PNEUMATIC
	HOA	HAND - OFF - AUTOMATIC
	NC	NORMALLY CLOSED
	NO	NORMALLY OPEN
	NIC	NOT IN CONTRACT
	MA	MAKE-UP AIR
	OSA	OUTSIDE AIR
	PE	PNEUMATIC - ELECTRIC
	REA	RELIEF AIR
	REAG	RELIEF AIR GRILLE
	RA	RETURN AIR
	RAG	RETURN AIR GRILLE
	RAR	RETURN AIR REGISTER
	SA	SUPPLY AIR
	SAG	SUPPLY AIR GRILLE
	SAR	SUPPLY AIR REGISTER
	TA	TRANSFER AIR
	SI	SOUND INSULATION
	T	THROAT
	UNO	UNLESS NOTED OTHERWISE
	UTR	UP THRU ROOF
	VAV	VARIABLE AIR VOLUME
	VTR	VENT THRU ROOF

FLOG

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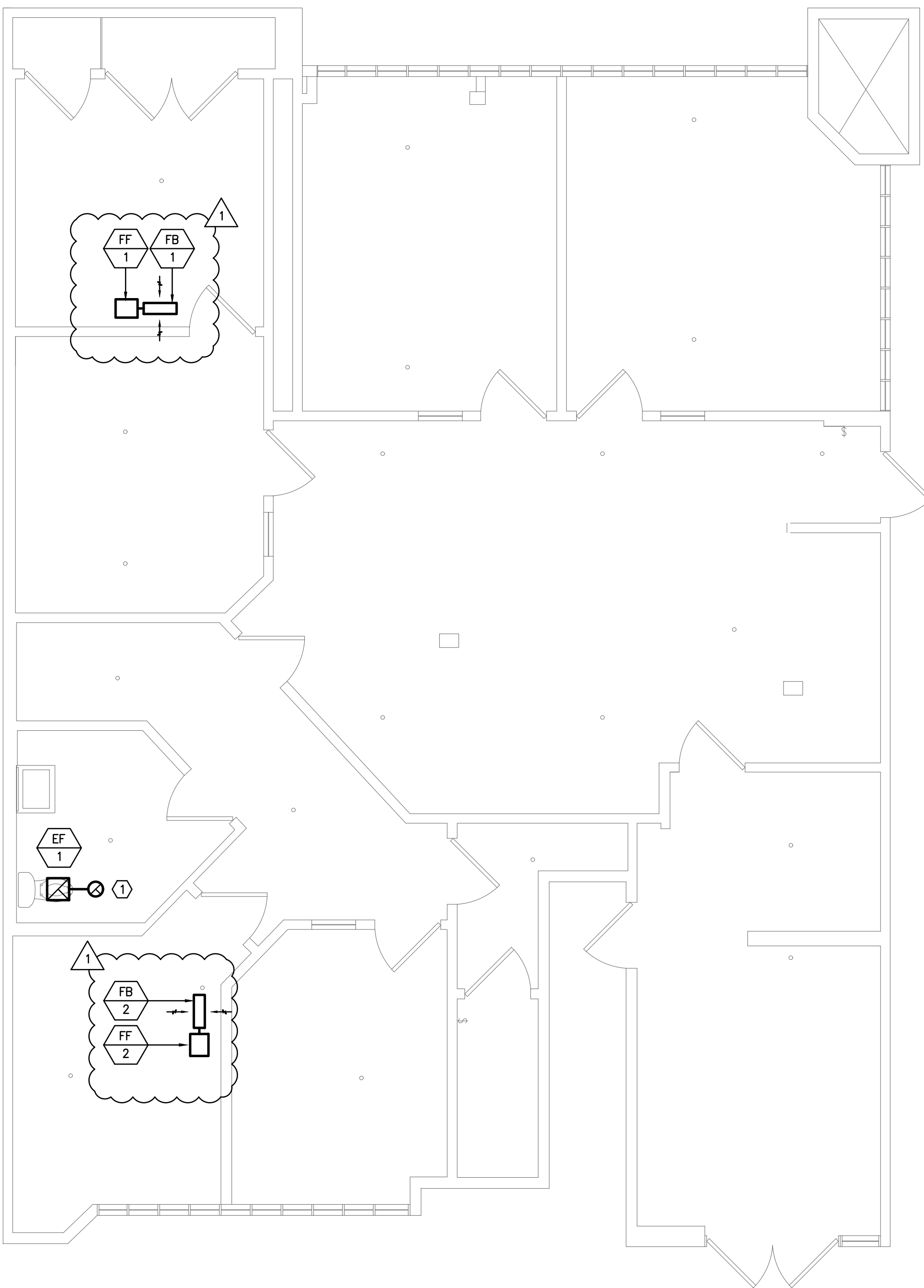
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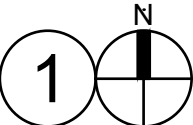
LEGEND, SCHEDULES & NOTES

M0.1



MECHANICAL FLOOR PLAN

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



PLAN NOTES

① 6"Ø EXHAUST AIR DUCT UP THRU. ROOF.



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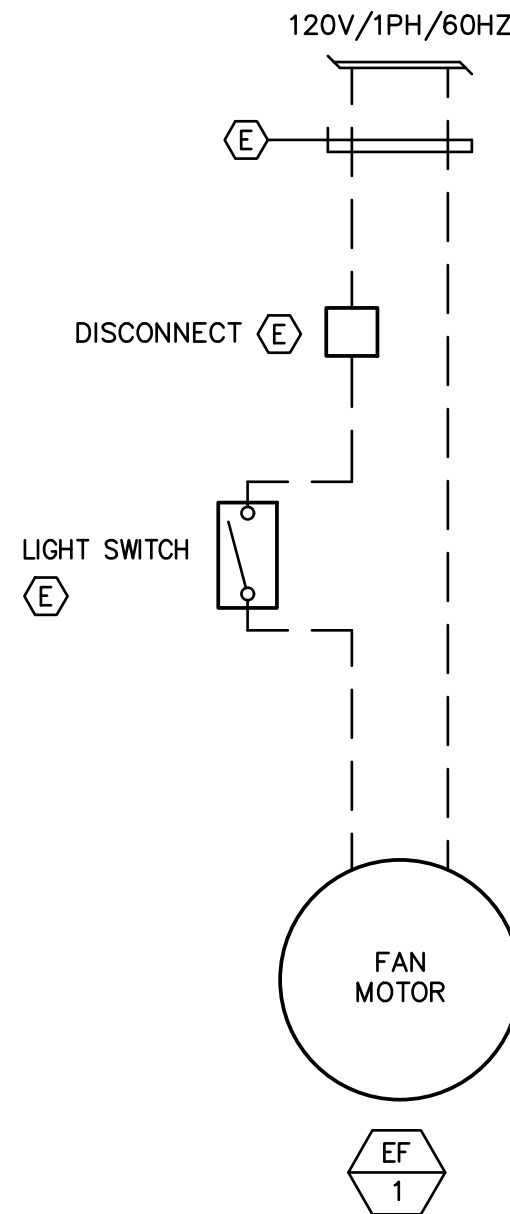
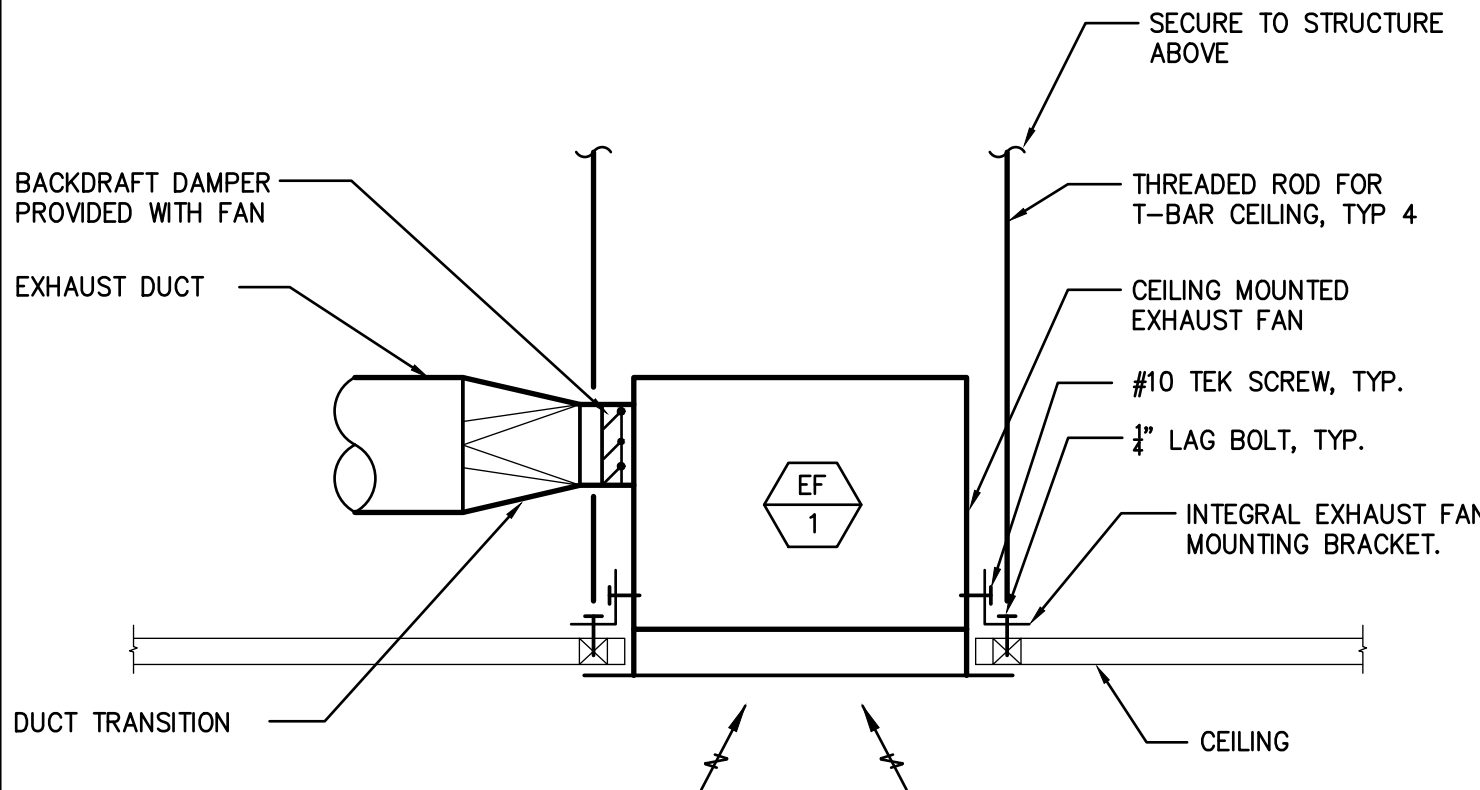
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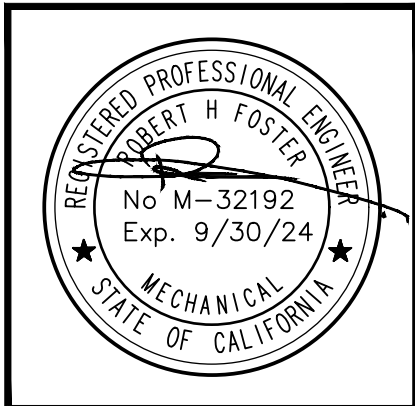
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MECHANICAL  
FLOOR PLAN

M2.1

							
-	10	-	7	-	4	EXHAUST FAN WIRING SCHEMATIC	1
							
-	11	-	8	-	5	CELING EXHAUST FAN MOUTING DETAIL	2
-	12	-	9	-	6		3



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24"x36" SCALE:	
PLOT DATE:	2023-02-13
CAD FILE:	
JOB NUMBER:	22-054
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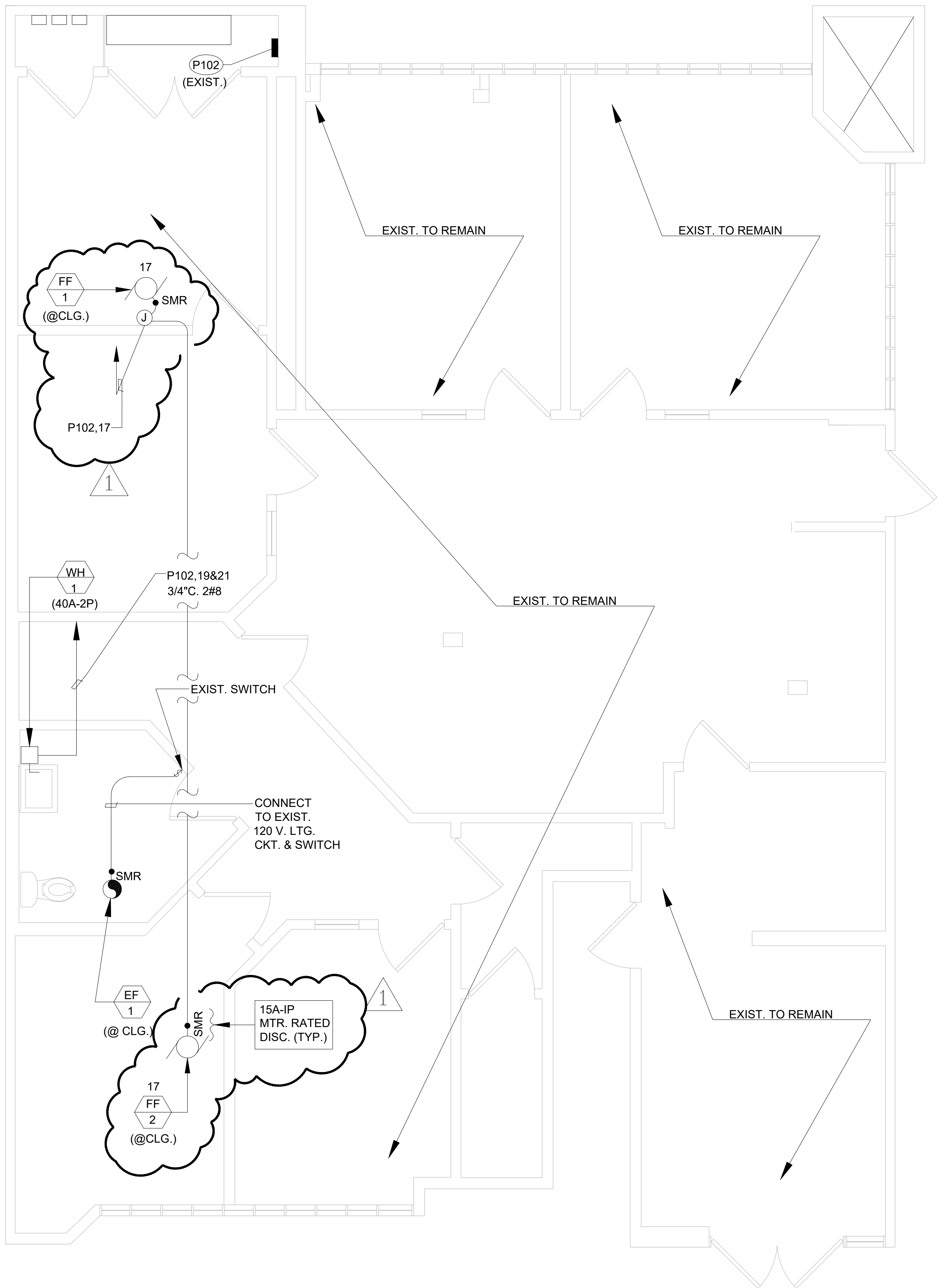
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MECHANICAL  
DETAILS

M4.1





(EXIST. PNL. W/EXIST. 1-1/4" C. 4#1 CU. FDR.)

PANEL 'P102'				LOCATION ELECT. CLOSET										BUS RATING										120/208V 3 Ø 4 W									
				MAIN (AMP) MLO										150A										MOUNTING: SURFACE									
DESCRIPTION		VOLT		AMPS		L T G	R E C	M I S	BKR NO	CKT NO	BUS		CKT NO	BKR NO	M I S	L T G	VOLT		AMPS		DESCRIPTION												
		Ø A	Ø B	Ø C	Ø A						Ø B	Ø C					Ø A	Ø B	Ø C														
(E) OFF. RECEPT'S		1080							20-1	1	●	2	20-1					1500				(E) OFF. LIGHTING											
									3	●	4							800															
									5	●	6																						
									7	●	8																						
									9	●	10																						
									11	●	12																						
									13	●	14																						
									15	●	16																						
									17	●	18																						
									19	●	20																						
								21	●	22																							
								23	●	24																							
								25	●	26																							
								27	●	28																							
								29	●	30																							
								31	●	32																							
								33	●	34																							
								35	●	36																							
								37	●	38																							
								39	●	40																							
								41	●	42																							
SUB-TOTAL		OA= 7,140 VA										OB = 7,100 VA										OC = 4,708 VA											

TOTAL CONNECTED VA = 18,949			
LCL @ 125 % 3,800 = 4,750			
TOTAL OTHER LOAD = 15,149			
PANEL LOAD = 19,899			
FEEDER AMPS = 55 A			

NOTES:  
① DENOTES EXIST. CB TO REMAIN; ALL OTHERS ARE NEW TO MATCH EXIST. TYPE AND AIC VALUE.

## ELECTRICAL SYMBOLS

- A,1-3-5 THREE SINGLE PHASE CIRCUITS TO PANEL "A" WITH COMMON NEUTRAL  
A,1&3&5 ONE THREE PHASE CIRCUIT TO PANEL "A" - NO NEUTRAL  
A,1&3 ONE SINGLE PHASE CIRCUIT TO PANEL "A" - NO NEUTRAL  
A,1,3,5 THREE SINGLE PHASE CIRCUITS WITH SEPARATE NEUTRALS  
HOMERUN TO PANEL OR EQUIPMENT AS NOTED  
CONDUIT RUN CONCEALED IN WALL OR ABOVE FINISHED CEILING OR AS NOTED  
BRANCH CIRCUIT WIRING, 2 #12 IN 1/2" CONDUIT OR AS NOTED OR SYMBOLIZED:  
---#1/2"C. 3#12 (PLUS GRD) ---#3/4"C. 5#12 (PLUS GRD)  
ELECTRICAL PANELBOARD, AS DESIGNATED, FLUSH OR SURFACE MOUNTED AS INDICATED.  
DISCONNECT SWITCH, FUSED WHERE NOTED  
HORSEPOWER RATED DISCONNECT SWITCH, NEMA 3R WHERE OCCURS AT ROOF

## ELECTRICAL INSTALLATION NOTES

1. ANYTHING DRAWN OR SPECIFIED SHALL NOT BE CONSTRUED TO CONFLICT WITH ANY LOCAL, MUNICIPAL OR STATE LAW, REGULATION OR ORDINANCE WHICH GOVERNS THE INSTALLATION OF ANY ELECTRICAL OR RELATED WORK.
2. CONDUIT SHALL BE MINIMUM 1/2" EMT WITH SET SCREW FITTINGS SUPPORTED AT 10'-0" INTERVALS.
3. INSTALL ALL WIRING PER EQUIPMENT MANUFACTURE'S REQUIREMENTS AND/OR EQUIPMENT NAME PLATES
4. PROVIDE NEW TYPE WRITTEN PANEL SCHEDULE DIRECTORIES IN PANEL BOARD FRONTS. DIRECTORIES SHALL INCLUDE FEEDER CONDUCTOR SIZE AND THE SOURCE WHICH FEEDS EACH PANEL.
5. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL NOTES, SPECIFICATIONS AND DETAILS THAT FORMS A PART OF THIS CONTRACT. CONFIRM EXACT LOCATION AND DIMENSIONAL DETAILS FROM SAID PLANS; DO NOT ROUGH IN ANY EQUIPMENT FROM LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.
6. CONTRACTOR SHALL TRACE AND IDENTIFY ALL EXISTING TO REMAIN 120 VOLT CIRCUITS WHICH OCCUR WITHIN THIS BUILD OUT AND CREATE CURRENT PANEL SCHEDULE DIRECTORY IN PANELBOARD FRONTS UPON COMPLETION OF WORK. INCLUDE ALL WORK REQUIRED TO PERFORM THIS FUNCTION UNDER THIS BASE BID.
7. LABEL ALL J-BOX'S AND BACK BOX'S WITH NAME OF CIRCUIT NUMBER CONTAINED THEREIN.

## RACEWAY AND CONDUCTOR NOTES

1. ALL CONDUCTORS SHALL BE COPPER TYPE THHN/THWN, 600V AND SHALL BE RATED AT 90 DEGREE C. OR THWN-2, THHW OR THW-2 IN WET LOCATIONS.
2. WHERE INSTALLED IN A RACEWAY, CONDUCTORS OF SIZE NO. 8 AND LARGER SHALL BE STRANDED.
3. CONDUCTORS SIZE NO.1 AWG AND SMALLER WITH 75 DEGREE C AND 90 DEGREE C INSULATION ARE TO USE THE 60 DEGREE COLUMN OF THE CODE, TABLE 310-16, TO DETERMINE AMPACITY. CONDUCTORS #1/0 AWG AND LARGER WITH 75 DEGREE AND 90 DEGREE INSULATION ARE TO USE THE 75 DEGREE COLUMN OF THE CODE, TABLE 310-16, TO DETERMINE AMPACITY.
4. ALL CONDUCTORS/CABLING SHALL BE INSTALLED IN AN APPROVED RACEWAY UNLESS SPECIFICALLY NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
5. ALL MAIN POWER RUNS SHALL BE IN EMT CONDUIT. PRE WIRED FLEX IS ONLY ALLOWED WHERE CONCEALED AND ACCESSIBLE. USE EMT BETWEEN EACH J-BOX.

## CODE COMPLIANCE

THE PROJECT SHALL COMPLY WITH LOS ANGELES CITY AND OTHER CODES, ORDINANCES, OR LAWS HAVING JURISDICTION ON THE PROJECT. WHICH INCLUDE, BUT ARE NOT LIMITED TO:

- 2019 CALIFORNIA BUILDING CODE - ( PART 2, TITLE 24, CCR )
- 2019 CALIFORNIA ELECTRICAL CODE- ( PART 3, TITLE 24, CCR )
- 2019 CALIFORNIA MECHANICAL CODE- ( PART 4, TITLE 24, CCR )
- 2019 CALIFORNIA PLUMBING CODE- ( PART 5, TITLE 24, CCR )
- 2019 CALIFORNIA FIRE CODE- (PART 9, TITLE 24, CCR )
- 2019 CALIFORNIA BUILDING STANDARDS CODE ( PART 12, TITLE 24, CCR )
- 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS, (TITLE 24-6)

## BUILDING DEPARTMENT NOTES

1. VIA SEPARATE SUBMITTAL, OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND APPROVALS FOR ALL FIRE ALARM SYSTEM INSTALLATIONS AND OR MODIFICATIONS FROM THE CITY OR COUNTY FIRE DEPARTMENT'S FIRE PREVENTION BUREAU.
2. VIA SEPARATE SUBMITTAL, OBTAIN APPROVALS AND PERMITS FOR ALL ELECTRICAL SUB SYSTEMS WITH POWER SUPPLIES CAPABLE OF PRODUCING MORE THAN 50VA AND/OR 25V. (E.G., SECURITY, TELCO/DATA, PA, AUDIO VISUAL, HVAC CONTROLS, ETC)
3. TEST FOR ILLUMINATION AND EXIT SIGNS, INCLUDING DIRECTIONAL EXIT SIGNS POWERED BY EITHER THE NORMAL PREMISES WIRING OR ANY ADDITIONALLY REQUIRED EMERGENCY SYSTEMS SHALL BE CONDUCTED IN THE PRESENTS OF THE BUILDING INSPECTION STAFF TO ENSURE COMPLIANCE. THE TEST TIMES FOR EMERGENCY SYSTEMS SHALL BE ARRANGED IN ADVANCE AND ALL STAFFING COST ASSOCIATED WITH EITHER PRE-HOURS OR AFTER HOURS SHALL BE PAID AT THIS TIME. THE TESTING AND APPROVAL OF SUCH SYSTEMS SHALL OCCUR PRIOR TO THE ISSUANCE OF A TEMPORARY CERTIFICATE OF APPROVAL OR FINAL APPROVAL OF THE PROJECT.
4. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE LISTED, LABELED, OR CERTIFIED FOR ITS USE BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTRUCTIONS PROVIDED BY ITS MANUFACTURER, (CEC 110.2 AND 110.3(B)).
5. THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER AND BRANCH CIRCUIT CONDUCTORS TO FURTHEST LOAD OR OUTLET SHALL NOT EXCEED 3%.
6. IN FRONT OF ALL METER PANELS, SUB PANELS, TRANSFORMERS, AND DISCONNECTS, PROVIDE A WORKING SPACE IN FRONT, ON THE FLOOR, RECTANGLE, PAINT W/CONTRASTING COLOR, 4-INCH BRUSH STROKES, W/ DIAGONAL LINES INSIDE, W/ 6 INCH LETTERS, "NO STORAGE" BLOCKED IN, AND/OR LARGE STICKER SAYING THE SAME THING.
7. ELECTRICAL SWITCHES OUTLET BOXES SHALL BE 48" MAXIMUM MEASURED TO THE TOP OF THE BOX ABOVE FINISH FLOOR (118-308.1.1).
8. ELECTRICAL RECEPTACLE OUTLET BOXES SHALL BE 15" MINIMUM MEASURED TO THE BOTTOM OF THE BOX ABOVE FINISH FLOOR.

## ELECTRICAL SCOPE OF WORK

ELECTRICAL SCOPE OF WORK UNDER THIS PERMIT IS LIMITED TO THE CIRCUITING REQUIRED FOR THE ADDITION OF (1) 18 WATT CEILING EXHAUST FAN, (2) 128 WATT FILTER FANS AND (1) NEW INSTA HOT. THERE ARE NO NEW PANELS OR ANY OTHER ELECTRICAL EQUIPMENT.

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ELECTRICAL PLAN  
**E-1**



PIPING MATERIALS

1.

SOIL, WASTE, VENT, AND STORM DRAIN PIPING BELOW GROUND:

NO-HUB CAST-IRON WITH 4-BAND STAINLESS STEEL COUPLINGS. WRAP ALL UNDERGROUND PIPING WITH 8 MIL. POLYETHYLENE ENCASEMENT PER ANSI/AWWA C105/A21.5-93.
2.

SOIL, WASTE, VENT, AND STORM DRAIN PIPING ABOVE GROUND:

NO-HUB CAST IRON PIPE AND FITTINGS, CISPI-301 WITH 2-BAND STAINLESS STEEL COUPLINGS, CISPI-310-85.
3.

WATER PIPING BELOW GROUND:  
WATER PIPING BELOW BUILDING:

TYPE 'K' COPPER WITH BRAZED JOINTS.  
TYPE 'K' COPPER, NO JOINTS ALLOWED.
4.

WATER PIPING ABOVE GROUND:

TYPE 'L' HARD DRAWN COPPER TUBE WITH WROUGHT COPPER FITTINGS AND LEAD FREE SOLDERED JOINTS.
5.

INSULATION OF DOMESTIC HOT WATER AND INTERIOR CONDENSATE PIPING:

GLASS FIBER PIPE INSULATION WITH FACTORY APPLIED WHITE JACKET, J-M MICRO-LOK 750AP, 1 INCH THICK FOR PIPE SIZES 1 INCH AND BELOW, 1-1/2 INCHES THICK FOR PIPE SIZES 1-1/4 AND 1-1/2 INCHES, AND 2 INCHES THICK FOR LINES 2 INCH AND LARGER.
6.

CONDENSATE PIPING:

TYPE 'M' COPPER TUBE ASTM B88 AND WROUGHT COPPER FITTINGS AND LEAD FREE SOLDERED JOINTS.
7.

GAS FUEL PIPE ABOVE GRADE:

SCHEDULE 40 A-53 BLACK STEEL PIPE W/M.I. SCREWED FITTINGS.
8.

ALL OF THE ABOVE SHALL COMPLY WITH THE SPECIFICATIONS.

WATER PIPE SIZING CHART				
5.0 P.S.I.				
SIZE (IN.)	G.P.M.	FLUSH TANK F.U.	FLUSH VALVE F.U.	HOT WATER F.U.
1/2"	1.9	1	0	1
3/4"	4.9	7	0	7
1"	10	18	0	16
1-1/4"	17	34	5	28
1-1/2"	27	66	20	46
2"	56	245	124	119
2 1/2"	92	638	559	310
BASED ON UNIFORM PLUMBING CODE 2019 EDITION. CW MAX. 8 F.P.S. VELOCITY OR 5.0 P.S.I.G. / 100 FEET MAXIMUM PRESSURE DROP. HW 5 F.P.S. VELOCITY OR 5.0 P.S.I.G. / 100 FEET.				

PLUMBING SHEET INDEX

- P0.1 PLUMBING LEGEND AND GENERAL NOTES
- P0.2 PLUMBING SCHEDULES
- P0.3 PLUMBING SPECIFICATIONS
- P0.4 PLUMBING SPECIFICATIONS
- P2.1 PLUMBING FLOOR PLAN
- P4.1 PLUMBING DETAILS

PLUMBING GENERAL NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, DRAINS, PIPE CHASES AND FURRING.
2. COORDINATE ALL LOCATIONS, SIZES AND ELEVATIONS OF ALL SLEEVES THRU WALLS AND SLABS WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, ROOFS, FOOTINGS AND FLOORS INCLUDING ALL SAW CUTTING AND CORE DRILLING.
4. COORDINATE AND VERIFY EXACT LOCATIONS, SIZES, POINTS OF CONNECTION AND INVERT ELEVATIONS OF ALL EXISTING PIPING PRIOR TO INSTALLATION. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
5. PLUMBING DRAWINGS ARE DIAGRAMMATIC. THE LOCATION AND ELEVATION OF ALL PLUMBING PIPING IS APPROXIMATE AND SHALL BE VERIFIED AND COORDINATED WITH ALL OTHER TRADES, STRUCTURAL CONDITIONS, AND BUILDING CONSTRUCTION PRIOR TO START OF INSTALLATION.
6. ALL VALVES SHALL BE LOCATED SO AS TO BE READILY ACCESSIBLE. WHERE VALVES ARE INSTALLED WITHIN OR BEHIND WALLS OR ABOVE A CEILING, AN ACCESS PANEL SHALL BE INSTALLED.
7. PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS JOINING DISSIMILAR METALS.
8. COORDINATE LOCATION OF GAS AND DRAIN CONNECTIONS ON MECH. EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
9. ALL WORK SHALL CONFORM TO CODE. IN CASE OF CONFLICTS WITH CODE, DRAWINGS OR SPECIFICATIONS; THE MOST STRINGENT SHALL PREVAIL.
10. WHERE PLUMBING PIPING PENETRATES A SEPARATION WALL SURFACE, FOR THE SECTION PASSING THRU THE WALL SURFACE, THE FIXTURE CONNECTIONS ATTACHED THERETO SHALL BE ONLY OF "METAL".
11. ALL PIPING PENETRATIONS THRU A FIRE RATED WALL SHALL BE INSTALLED WITH AN APPROVED FIRESTOP SYSTEM.
12. SERVICE WATER HEATING EQUIP. SHALL MEET ALL OF THE REQUIREMENTS OF THE APPLICABLE EFFICIENCY STANDARDS AND SHALL BE CURRENTLY LISTED AS CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION.
13. ALL ACCESSIBLE FIXTURES SHALL BE FURNISHED AND INSTALLED IN STRICT ACCORDANCE WITH THE C.A.C.
14. ALL HORIZONTAL WASTE LINES SHALL BE RUN AT A MINIMUM SLOPE OF 1/4" PER FOOT (2%) UNLESS OTHERWISE NOTED ON PLAN.
15. ALL HORIZONTAL STORM DRAINS AND OVERFLOW DRAIN LINES SHALL BE RUN AT A MINIMUM SLOPE OF 1/4" PER FOOT (2%) UNLESS OTHERWISE NOTED ON PLAN.
16. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL AND PARTITION CONSTRUCTION AND THICKNESS WHERE PLUMBING PIPING OR EQUIPMENT IS INDICATED.
17. INSTALL ALL NEW PLUMBING AND PIPING WORK TO AVOID INTERFERENCE WITH NEW AND EXISTING MECHANICAL, ELECTRICAL AND OTHER EQUIPMENT WHERE REQUIRED. OFFSET NEW PIPING TO CLEAR EXISTING INSTALLATION.
18. ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 & 719.0 OF THE PLUMBING CODE.
19. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE PLUMBING CODE.
20. ACCESSIBLE WATER HAMMER ARRESTERS SHALL BE INSTALLED FOR QUICK-ACTING VALVES. LOCATION AND METHOD OF INSTALLATION SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATION.
21. SANITARY VENT SHALL TERMINATE NOT LESS THAN TEN (10) FEET FROM OR AT LEAST THREE (3) FEET ABOVE ANY WINDOW, DOOR, OPENING, AIR INTAKE OR VENT SHAFT. PER 2019 CPC, SECTION 906.2.
22. LAVATORY CONTROLS SHALL LIMIT THE FLOW RATE TO 0.5 GPM AND 105 DEGREES F.
23. ALL EXISTING PIPING RELATED TO PLUMBING FIXTURES BEING DEMOLISHED AND NOT BEING USED SHALL BE REMOVED AND/OR CAPPED OFF IN WALL, BELOW FLOOR AND ABOVE CEILING.
24. PROVIDE ACCESS PANELS FOR ALL WATER HAMMER ARRESTORS AND TRAP PRIMERS.
25. ALL HORIZONTAL INDIRECT WASTE LINES INCLUDING CONDENSATE DRAINS SHALL BE RUN AT A MINIMUM SLOPE OF 1/8" PER FOOT.
26. ALL FIXTURES, EQUIPMENT, PIPING AND MATERIALS SHALL BE LISTED.
27. WATER PIPE AND FITTINGS WITH A LEAD CONTENT WHICH EXCEEDS 0.25% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER.
28. HOT WATER TO HANDWASHING FIXTURES SHALL BE LIMITED TO 105°F.
29. BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH SECTION 701.0 AND 903.0 OF THE CALIFORNIA PLUMBING CODE.
30. EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN SIX (6) INCHES ABOVE THE FLOOD-LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY OR BEFORE BEING CONNECTED TO ANY OTHER VENT.
31. FOR DISCREPANCIES BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE DRAWINGS SHALL GOVERN.

PLUMBING LEGEND

SYMBOL	ABBR.	DESCRIPTION
	S OR W	SOIL OR WASTE LOCATED ABOVE FLOOR OR GRADE
	S OR W	SOIL OR WASTE LOCATED BELOW FLOOR OR GRADE
	SD	STORM DRAIN LOCATED ABOVE FLOOR OR GRADE
	SD	STORM DRAIN LOCATED BELOW FLOOR OR GRADE
	OD	OVERFLOW DRAIN LOCATED ABOVE FLOOR OR GRADE
	OD	OVERFLOW DRAIN LOCATED BELOW FLOOR OR GRADE
	V	SANITARY VENT
	CW	COLD WATER LINE
	ICW	INDUSTRIAL COLD WATER LINE
	HW	HOT WATER LINE
	HWR	HOT WATER RETURN LINE
	CA	COMPRESSED AIR LINE
	F	FIRE MAIN
	VAC	VACUUM LINE
	ASD	AUTOMATIC SPRINKLER DRAIN LINE
	D	INDIRECT DRAIN LINE
	CD	CONDENSATE DRAIN LINE
	G	FUEL GAS LINE
	TP	TRAP PRIMER
		DIRECTION OF FLOW
	PG	PRESSURE GAUGE W/PETE COCK
	GC	GAS COCK
	PRV	PRESSURE REDUCING VALVE
	SOV	SHUT-OFF VALVE
	FCO	FLOOR CLEANOUT
	WCO	WALL CLEANOUT
	DN	DOWN
		RISE
		UNION
		SLOPE IN DIRECTION OF FLOW
	WHA	WATER HAMMER ARRESTOR
	POC	POINT OF CONNECTION
	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
	ABV.	ABOVE
	A.F.F.	ABOVE FINISHED FLOOR
	A.P.	ACCESS PANEL
	BEH.	BEHIND
	BEL.	BELOW
	CLG.	CEILING
	CONT.	CONTINUATION
	(E) EXIST.	EXISTING
	F.D.C.	FIRE DEPARTMENT CONNECTION
	F.F.E.	FINISHED FLOOR ELEVATION
	FLR.	FLOOR
	FR.	FROM
	GR.	GRADE
	HDR.	HEADER
	I.E.	INVERT ELEVATION
	V.T.R.	VENT THROUGH ROOF
	OFC&I	OWNER FURNISHED CONTRACTOR INSTALLED

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PLUMBING  
LEGEND & NOTES

P0.1



PLUMBING FIXTURE SCHEDULE							
UNIT TAG	DESCRIPTION	CONNECTION SIZES					REMARKS
		TRAP	WASTE	VENT	CW	HW	
WC-1	WATER CLOSET (ADA COMPLIANT)	INT	4"	2"	1"	-	ZURN #Z5561 FLOOR MOUNTED, FLUSH TANK, HET, PRESSURE ASSISTED, ELONGATED BOWL, VITREOUS CHINA, WHITE, 1.1 G.P.F. SEAT: ZURN #Z5955S-EL, OPEN FRONT LESS COVER, WITH STAINLESS STEEL CHECK HINGE. LEVER TO BE PLACED ON DOOR SIDE. ADA COMPLIANT.
L-1	LAVATORY	1½"	2"	1½"	½"	½"	KOHLER "KINGSTON" #K-2007 WALL MOUNTED BATHROOM SINK, ONE FAUCET HOLE. FAUCET: KOHLER "SCULPTED" MODEL #K-13461-CP, DECK MOUNTED, SINGLE HOLE, ABOVE-COUNTER BATTERIES INCLUDED, SENSOR OPERATED, 0.5 GPM, VANDAL RESISTANT AERATOR, POLISHED CHROME. COMPLETE WITH BRASSCRAFT KT SERIES ½ TURN ANGLE STOPS. THERMOSTATIC MIXER LOCATED BELOW SET @ 105°F. TAILPIECE AND HOT WATER LINES SHALL BE INSULATED OR COVERED PER CBC 11B-606.5. ASME A112.18.1/CSA B125.1. NSF/ANSI 372. LEAD FREE. OBC, CSA B651 COMPLIANT. ADA COMPLIANT.
WHA-1	WATER HAMMER ARRESTOR	-	-	-	¾"	-	JAY R. SMITH, #5005 "HYDROTROL" STAINLESS STEEL SHOCK ABSORBER.
TP-1	TRAP PRIMER	-	-	-	½"	-	PRECISION PLUMBING PRODUCTS, P2-500, WITH ACCESS PANEL & DISTRIBUTION UNIT DU-4/DU-U AS REQUIRED.
FD-1	FLOOR DRAIN	2"	2"	2"	-	-	JAY R. SMITH, MODEL 2005-Y-A-NB ROUND TOP DRAIN W/ NO-HUB OUTLET.

ELECTRIC WATER HEATER SCHEDULE											
TAG NO.	MANUFACTURER & MODEL NO.	LOCATION	SERVICE	STORAGE CAPACITY	ELECTRICAL		REC. @ 60° ΔT (GPH)	WATER INLET TEMP °F	WATER OUTLET TEMP °F	OPERATING WEIGHT (LBS)	REMARKS
					KW	V/P/HZ					
WH 1	CHRONOMITE CMI-30L/208	RESTROOM LAVATORY	DOMESTIC HOT WATER	INSTANTANEOUS	6.24	208-1-60	INSTANTANEOUS	60	105	5	UL LISTED. IAPMO LISTED. LEAD FREE. PROVIDE MIXING VALVE AT LAVATORY SET TEMPERATURE OF 105°F.

WATER SYSTEM CALCULATION			
MAX. STREET PRESSURE AT THE MAIN -	-	94 P.S.I.	
MIN. STREET PRESSURE AT THE MAIN -	-	89 P.S.I.	
TOTAL G.P.M. (FLUSH TANK SYSTEM) - 6 FU		5 GPM	
LOSSES:			
2" WATER METER (E)	-	0.3 P.S.I.	
1" BACKFLOW PREVENTER - (E) ZURN WILKINS - 975XL2	-	11.5 P.S.I.	
2" PRESSURE REDUCING VALVE - (E) ZURN WILKINS - 500XL	-	1.5 P.S.I.	
STATIC LOSS 12' x .431	-	5.2 P.S.I.	
RESIDUAL PRESSURE	-	25.0 P.S.I.	
TOTAL:	-	30.2 P.S.I.	
PRESSURE AVAILABLE FOR FRICTION LOSS (70 - 30.2)	-	39.8 P.S.I.	
TOTAL DEVELOPED LENGTH OF RUN FROM METER TO GOVERNING FIXTURE (INCLUDING FITTINGS) 368' x 1.2 =	-	442'	
ALLOWABLE AVERAGE LOSS DUE TO FRICTION PER 100' OF PIPE (30.2 x 100') / 442'	-	6.8 P.S.I.	
PIPE SIZES BASED ON 5 P.S.I. LOSS PER 100' OR 8 FT. PER SECOND VELOCITY WHICHEVER RESTRICTION IS GREATER.			

FIXTURE UNITS			
QUANTITY	NEW FIXTURE	WATER FIXTURE UNITS	SEWER FIXTURE UNITS
1	WATER CLOSET (FLUSH TANK)	2.5 EACH = 2.5	4 EACH = 4
0	URINAL	VARIES = 0	2 EACH = 0
1	LAVATORY	1 EACH = 1	1 EACH = 1
0	COFFEE MAKER	1/2 EACH = 0	0 EACH = 0
0	SINK	2 EACH = 0	2 EACH = 0
1	FLOOR DRAIN	0 EACH = 0	4 EACH = 4
0	SERVICE SINK	3 EACH = 0	3 EACH = 0
0	REFRIGERATOR	1/2 EACH = 0	0 EACH = 0
1	HOSE BIBB (EXISTING)	VARIES = 2.5	0 EACH = 0
	TOTAL:	6	9

FLOG

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NON-STOREFRONT RETAIL - DELIVERY

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2		
3		
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5		
ISSUE DATES		
DESIGN APPROVAL:		
PERMIT SUBMITTAL:		
PERMIT RECEIVED:		
BID DOCS:		
CONSTR. DOCS:		

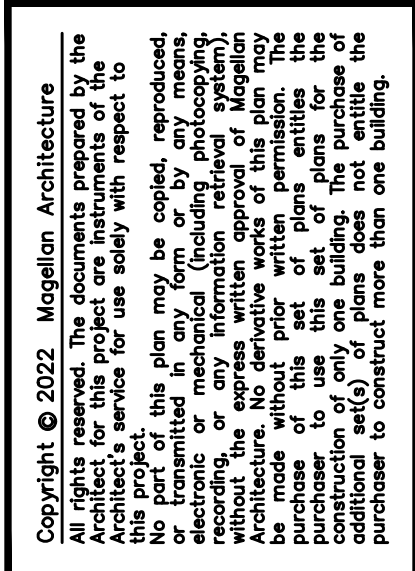
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PLOT DATE:	2022-08-19
CAD FILE:	
JOB NUMBER:	22-054
CHECKED:	R.F.
DRAWN:	K.P./T.Q.
STATUS:	CD SET

PLUMBING  
SCHEDULES  
**P0.2**









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DRAWN:	K.P./T.Q.
STATUS:	CD SET

# P0.4

### 3.06 CLEANOUTS

- ### 3.07 ACCESS BOXES AND PANELS

- ### 3.08 WRAPPING FOR BURIED STEEL AND COPPER PIPING

- ### 3.10 EXCAVATION AND BACKFILLING

### 3.11 SPECIALTY ITEMS

### 3.12 STERILIZATION

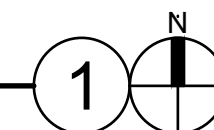
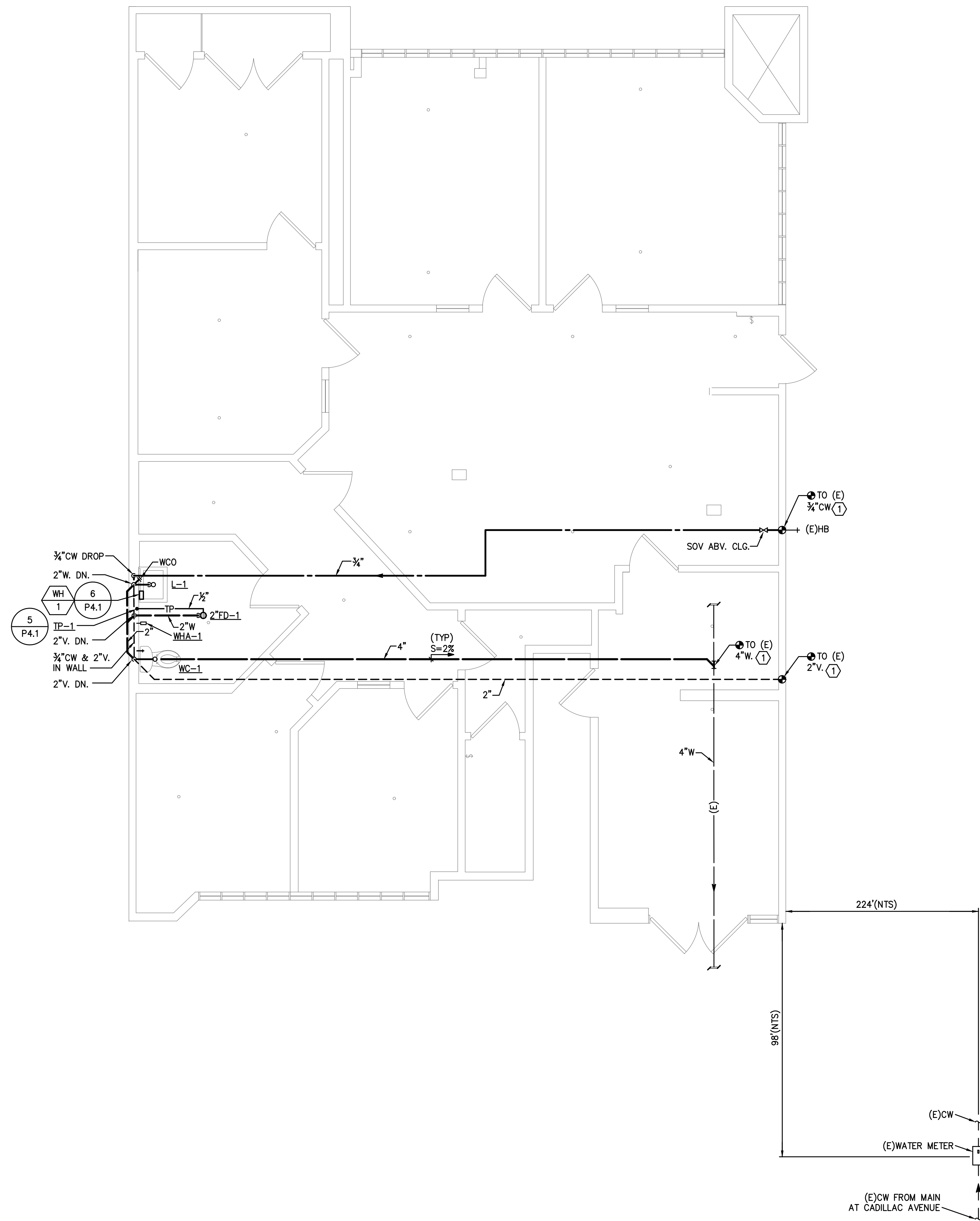
## A. MATERIALS

- ### 3.13 TESTS

- ### 3.14 ADJUSTING

**END OF SECTION**





PLAN NOTES

① CONTRACTOR TO VERIFY ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF WORK.



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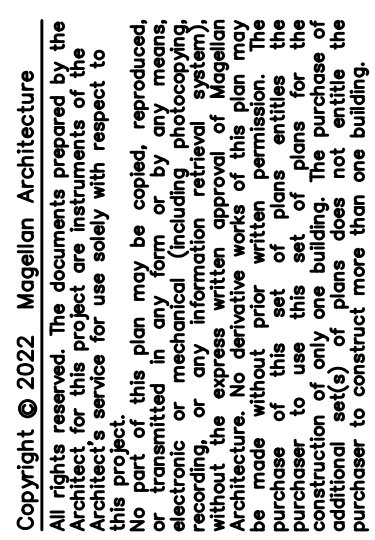
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PLUMBING  
FLOOR PLAN  
**P2.1**





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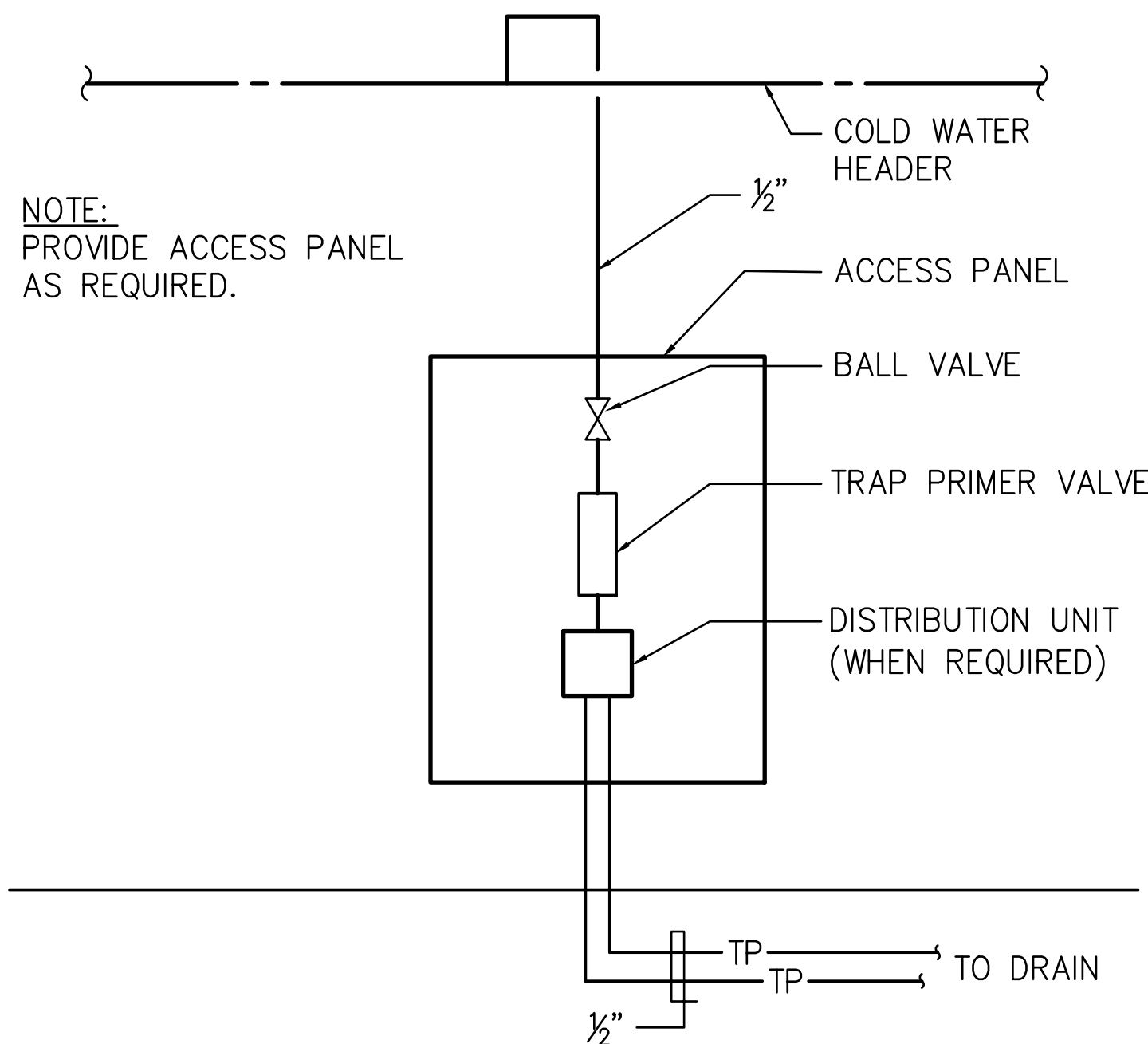
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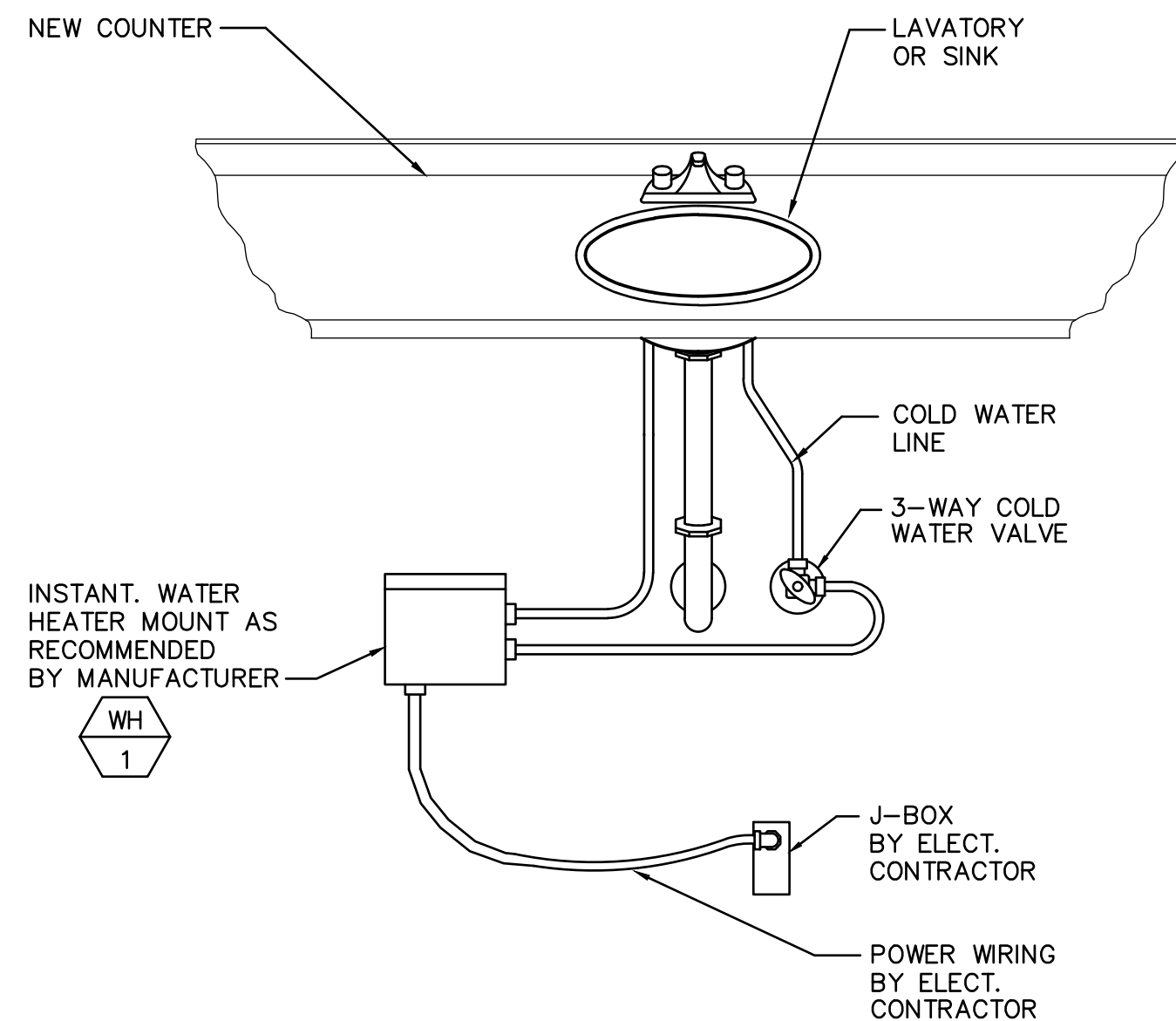
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## PLUMBING DETAILS

## P4.1



## TRAP PRIMER & DISTRIBUTION ASSEMBLY



## INSTANTANEOUS WATER HEATER