


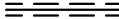

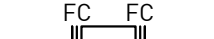
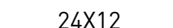
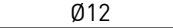





MECHANICAL SYMBOLS LIST

<div>AC-1EF-1</div>	EQUIPMENT SYMBOL	MECHANICAL ABBREVIATIONS	
	POINT OF NEW CONNECTION TO EXISTING	AFF	ABOVE FINISHED FLOOR
		AL	ACOUSTIC LINING
		BD	BACKDRAFT DAMPER
		CDS	CEILING DIFFUSER SUPPLY
	CEILING DIFFUSER SUPPLY	CDR	CEILING DIFFUSER RETURN
		CFM	CUBIC FEET OF AIR PER MINUTE
	CEILING DIFFUSER RETURN/EXHAUST	CP	CONDENSATE PUMP
		CD	CONDENSATE DRAIN PIPE
	SUPPLY GRILLE - SIDEWALL	EF	EXHAUST FAN
		FC	FLEXIBLE CONNECTION
	RETURN GRILLE - SIDEWALL	FD/AD	FIRE DAMPER W/ACCESS DOOR
		FD	FIRE DAMPER W/FUSIBLE LINK
		FSD	FIRE SMOKE DAMPER
		MD	MOTORIZED DAMPER
		OAI	OUTSIDE AIR INTAKE
		T-X	THERMOSTAT
		VD	VOLUME DAMPER
		W.M.S.	WIRE MESH SCREEN
		S.A.E	SAME AS EXISTING
		V.I.F	VERIFY IN FIELD
		RTU	ROOF TOP UNIT

	BACKDRAFT DAMPER
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CONTROLS AND SENSORS

	THERMOSTAT
	TEMPERATURE SENSOR
	DUCT SMOKE DETECTOR
DUCTWORK	
	AIR DUCT W/ 1.5" ACOUSTICAL LINING
	FLEXIBLE DUCT
	FLEXIBLE CONNECTION
	RECTANGULAR DUCT (WIDTH X DEPTH)
	ROUND DUCT (DIAMETER)
	ROUND DUCT CROSS SECTION
	SUPPLY AIR RECTANGULAR DUCT CROSS SECTION
	RETURN AIR RECTANGULAR DUCT CROSS SECTION

MECHANICAL DRAWING LIST

M0.01	MECHANICAL SPECIFICATIONS (1 OF 2)
M0.02	MECHANICAL SPECIFICATIONS (2 OF 2)
MD1.01	MECHANICAL DEMOLITION PLAN
M1.01	MECHANICAL FLOOR PLAN
M1.02	MECHANICAL ROOF PLAN
M5.01	MECHANICAL DETAILS
M6.01	MECHANICAL SCHEDULES
M7.01	TITLE 24 SHEETS (1 OF 2)
M7.02	TITLE 24 SHEETS (2 OF 2)

CODE COMPLIANCE

ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE INSPECTING AUTHORITY. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THESE PROJECT:

- A.2022 CALIFORNIA BUILDING CODE
- B.2022 CALIFORNIA MECHANICAL CODE
- C.2022 CALIFORNIA PLUMBING CODE
- D.2022 CALIFORNIA FIRE CODE
- E.2022 CALIFORNIA ELECTRICAL CODE
- F.2022 CALIFORNIA ENERGY CODE.

CALIFORNIA BUILDING DEPARTMENT NOTES

ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF THE CALIFORNIA BUILDING CODE 2022, AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.

- 1.ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183.
2. VENTILATION FOR ALL AREA SHALL COMPLY WITH CALIFORNIA ENERGY CODE 2022, SECTION 120.1-REQUIREMENTS FOR VENTILATION AND INDOOR AIR QUALITY.
3. MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG. FAHRENHEIT.
4. A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE VENTILATION SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE STRUCTURE.
5. SMOKE DETECTION SYSTEMS SHALL BE INSTALLED AND SEQUENCED TO FOLLOW CONTROLS OPERATIONS WITH THE REQUIREMENTS OF SECTION 606 OF CALIFORNIA MECHANICAL CODE 2022 TO CLOSE DAMPERS AND AUTOMATICALLY STOP THE FAN.
6. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE-RATED WALL AND SMOKE WALL CONSTRUCTION AND LOCATION.
7. THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.
8. TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE CALIFORNIA MECHANICAL CODE 2022:

A. VENTILATION SYSTEM BALANCING CALIFORNIA MECHANICAL CODE 2022 - 402

B. SMOKE CONTROL SYSTEMS - CALIFORNIA MECHANICAL CODE 2022 - 606
9. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH THE REFERENCED CODE OR STANDARD:

A. STANDARDS OF HEATING - CALIFORNIA BUILDING CODE 2022 - 1203

B. DUCT CONSTRUCTION AND INSTALLATION- CALIFORNIA MECHANICAL CODE 2022 - 603

C. AIR INTAKES, EXHAUSTS AND RELIEF - CALIFORNIA MECHANICAL CODE 2022 - 502.

D. AIR FILTERS - CALIFORNIA MECHANICAL CODE 2022 - 401 (FILTERS SHALL BE A MINIMUM OF MERV 13 AS REQUIRED BY CEN 120.11C)

E. MANUAL AND AUTOMATIC FIRE AND SMOKE CONTROLS FOR AIR DISTRIBUTION SYSTEMS - CALIFORNIA MECHANICAL CODE 2022 - 606
10. PORTIONS OF SUPPLY-AIR AND RETURN-AIR DUCTS CONVEYING HEATED OR COOLED AIR LOCATED IN ONE OR MORE OF THE FOLLOWING SPACES SHELL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-8:

1.OUTDOOR; OR

2.IN A SPACE BETWEEN THE ROOF AND AN INSULATED CEILING; OR

3.IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENING TO THE OUTSIDE OR UNCONDITIONED SPACE ; OR

4.IN AN UNCONDITIONED CRAWLSPACE ; OR

5.IN OTHER UNCONDITIONED SPACES.
11. OPERATION AND CONTROL REQUIREMENTS FOR MINIMUM QUANTITIES OF OUTDOOR AIR.

TIMES OF OCCUPANCY - THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY SECTION 120.11C) SHALL BE SUPPLIED TO EACH SPACE AT ALL TIMES WHEN THE SPACE IS USUALLY OCCUPIED.
12. ALL MECHANICAL EQUIPMENT SHALL BE TESTED BY A CALIFORNIA CERTIFIED ACCEPTANCE TEST TECHNICIAN.

GENERAL NOTES

1. CONTRACTOR SHALL SURVEY THE AREA OF THIS WORK BEFORE SUBMITTING A BID AND SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT OF ANY CONDITIONS WHICH WOULD PREVENT THE INSTALLATION OF THE WORK AS SHOWN ON DRAWINGS.
2. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.
3. BEFORE PROCEEDING WITH ANY WORK IN OCCUPIED OR USED AREAS, THE CONTRACTOR SHALL APPLY TO OWNER FOR PERMISSION TO ENTER SUCH AREAS. THE CONTRACTOR IS OBLIGED TO PERFORM HIS WORK ONLY AT THE TIMES DESIGNATED BY OWNER. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THE WORK PERFORMED AFTER HOURS OR ON OFF-DAYS WITHOUT PRIOR WRITTEN APPROVAL.
4. THE WORK IN THE BUILDING SHALL BE DONE WHEN AND AS DIRECTED, AND IN A MANNER SATISFACTORY TO THE OWNER. THE WORK SHALL BE PERFORMED SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND DISTURBANCE TO THE PRESENT OCCUPANTS.
5. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN SO DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK IN OVERTIME AND THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.
6. CONTRACTOR SHALL ASCERTAIN THE APPROPRIATE METHOD FOR BRINGING THE UNITS INTO AND THROUGH THE BUILDING TO POSITION UNIT IN LOCATION SHOWN ON THE PLANS. WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH RESTRICTIVE SPACES. COORDINATE WITH BUILDING OWNER APPROPRIATE TIMES OF DAY SUCH EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.
7. DUCTWORK IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL MAKE ALLOWANCE IN PRICING FOR ROUTING OF DUCTWORK AND PIPING TO AVOID OBSTRUCTIONS. EXACT LOCATIONS ARE SUBJECT TO APPROVAL OF ARCHITECT. COORDINATION WITH THE EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES IS REQUIRED.
8. SUPPORT ALL DUCTWORK FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OR SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING. INSERTS SHALL BE STEEL, SLOTTED TYPE AND FACTORY PAINTED. SINGLE ROD SHALL BE SIMILAR TO GRINNELL FIG. 281. MULTI-ROD SHALL BE SIMILAR TO FEE & MASON SERIES 9000 WITH END CAPS AND CLOSURE STRIPS. MAXIMUM LOADING INCLUDING PIPES, DUCTWORK CONTENTS AND COVERING SHALL NOT EXCEED 75% OF RATED INSERT CAPABILITY. WHEN SUPPORTING FROM BUILDING USE BEAM

CLAMPS IN APPROVED MANNER.

9. PROVIDE ALL NECESSARY FLASHING AND COUNTER FLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THIS BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF PIPES, DUCTS, LOUVERS, CONDUIT, AND EQUIPMENT. PROVIDE EQUIPMENT CURBS AND DUNNAGE STEEL AS REQUIRED.
10. SEAL OPENINGS AROUND DUCTS AND PIPING THROUGH PARTITIONS, WALLS AND FLOORS (NOT IN SHAFTS) WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE MATERIAL (FIBERGLASS INSULATION IS NOT ACCEPTABLE).
11. WHERE PENETRATIONS THROUGH FIRE RATED WALLS ARE NOT FIRE PROOFED THIS CONTRACTOR SHALL BE RESPONSIBLE TO SEAL SAME TO MAINTAIN THE RATED INTEGRITY.
12. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
13. ACCESS DOORS ARE REQUIRED FOR ALL BUILDING SERVICE VALVES THAT RUN THROUGH THE SPACE, AND ACCESS DOOR SHALL HAVE THE EQUAL RATED CAPACITY (1HR, 2HR, ETC.) AS WALL. COORDINATE ALL LOCATIONS OF ACCESS DOORS WITH THE ARCHITECT.
14. REMOVABLE ACCESS TILE AND/OR ACCESS DOOR ARE REQUIRED IN HUNG CEILINGS, SHAFTS AND WALLS FOR ALL VOLUME AND FIRE DAMPERS, AUTOMATIC DAMPERS AND ALL OTHER MECHANICAL EQUIPMENT AND DEVICES. HVAC CONTRACTOR TO FURNISH ACCESS LOCATION REQUIREMENTS TO GENERAL CONTRACTOR. ACCESS TILE IDENTIFICATION: PROVIDE BUTTONS, TABS, AND MARKERS TO IDENTIFY LOCATION OF CONCEALED VALVES, DAMPERS AND EQUIPMENT.
15. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.
16. MATERIALS AND WORKMANSHIP, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
17. ALL EQUIPMENT SHALL BE PROVIDED WITH ONE YEAR WARRANTY PARTS AND LABOR AND FIVE YEARS ON COMPRESSORS. WARRANTY PERIOD BEGINS UPON PROJECT ACCEPTANCE
18. ALL MATERIAL AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK WITH ITS COMPLETION AND FINAL ACCEPTANCE AND SHALL REPLACE ANY OF THE SAME WHICH MAY BE DAMAGED, LOST, OR STOLEN WITHOUT ADDITIONAL COST TO THE OWNER.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FAILURE OF ANY DUCTWORK SYSTEM OR EQUIPMENT TO FUNCTION PROPERLY UPON COMPLETION OF HIS WORK UPON SAID SYSTEM OR EQUIPMENT.
21. SUBMIT SHOP DRAWING OF ALL WORK WHICH MUST BE APPROVED BY THE ARCHITECT AND ENGINEER BEFORE WORK COMMENCES.
22. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC., WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING DUCTWORK, PIPING (SIZES, CLEARANCES, ETC) AND CONDITIONS.
23. INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS THE CONTRACTOR SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.
24. THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, BALANCED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.
25. SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES, WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL," "SHALL BE," "FURNISH," "PROVIDE," "A," "THE," AND "ALL" HAVE BEEN OMITTED FOR BREVITY.
26. WHERE A CONFLICT EXISTS BETWEEN THE DRAWINGS, THE SPECIFICATIONS OR ANY OTHER CONSTRUCTION DOCUMENT, THE ONE WITH THE MOST STRINGENT REQUIREMENT(S) SHALL APPLY.

DEFINITIONS:

1)"PROVIDE": TO SUPPLY, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION THE PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED.

2) "INSTALL": TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.

3) "FURNISH" OR "SUPPLY": TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES.

SCOPE OF WORK

SCOPE OF WORK

1. THE WORK UNDER CONTRACT INCLUDES ALL LABOR, MATERIALS AND APPLIANCES NECESSARY FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR SAFE OPERATION OF THE SYSTEMS AS DESCRIBED IN THE SPECIFICATIONS, FLOOR PLAN(S) DESIGN, DETAIL DRAWINGS, NOTES, RFI'S, ETC. FOR THIS PROJECT. WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER.
2. THE CONTRACTOR SHALL GIVE NECESSARY NOTICE, FILE DRAWINGS AND SPECIFICATIONS WITH THE DEPARTMENT HAVING JURISDICTION, OBTAIN PERMITS OR LICENSES NECESSARY TO CARRY OUT THIS WORK AND PAY ALL FEES THEREFORE. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTS OF ANY OR ALL PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR, AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.
3. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OR ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES, BY OWNER, INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS

DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.

GENERAL HVAC NOTES

GENERAL:

1. PROVIDE ALL MATERIAL AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK (HVAC, PLUMBING, AND FIRE PROTECTION) ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
3. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
4. WHEN MECHANICAL WORK (HVAC, PLUMBING, SHEET METAL, FIRE PROTECTION, ETC.) IS SUBCONTRACTED, IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH CONTRACTOR PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR, WHOSE DECISION SHALL BE FINAL.
5. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
6. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
7. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
8. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
9. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND ELECTRICAL DIVISION OF THE SPECIFICATION.
10. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
11. MAINTAIN A MINIMUM 6'-8" CLEARANCE TO THE UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
12. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH THE STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.
13. NOTHING IS PERMITTED TO BE ATTACHED TO, SUSPENDED FROM, OR PENETRATE LANDLORD'S STRUCTURE, FLOOR DECK, OR ROOF DECK. TENANT MAY ATTACH, NON-DESTRUCTIVELY, TO OR SUSPEND FROM THE TOP CHORD OF THE JOIST OR THE STRUCTURAL STEEL WHICH EXISTS ABOVE THE TENANT SPACE, WHEN ATTACHING TO LANDLORD'S STRUCTURE, DO NOT DRILL, WELD, SCREW, OR SHOOT INTO STRUCTURE. ALTERNATIVE METHODS OF ATTACHMENT ONLY, NOTHING TO DAMAGE LANDLORD'S BASE BUILDING STRUCTURE. TENANT SHALL PROVIDE SIGNED AND SEALED STRUCTURAL DRAWINGS, BY A STRUCTURAL ENGINEER WITH LEGALLY ACTIVE REGISTRATION AS INDICATED BY ALL JURISDICTIONAL REQUIREMENTS, FOR ALL STRUCTURAL MODIFICATIONS FOR LANDLORD RECORDS.
14. ALL PENETRATIONS TO ROOF MUST BE APPROVED BY LANDLORD. ALL RELATED ROOF WORK MUST BE DONE BY MALL'S DESIGNATED ROOFING CONTRACTOR, AT TENANT'S EXPENSE. COORDINATE ALL WORK WITH PROPERTY MANAGEMENT ON SITE.
15. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN THE DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
16. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION. ACCESS PANELS SHALL HAVE THE EQUAL RATED CAPACITY (1HR, 2HR, ETC.) AS WALL.
17. MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED FROM A METAL DECK.
18. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED AND REQUIRED TO PROVIDE A VIBRATION-FREE INSTALLATION.
19. ALL DUCTWORK, AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.
20. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
21. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH A PRODUCT SIMILAR TO 3M OR APPROVED EQUAL.
22. TENANT MUST REMOVE ALL ABANDONED ROOFTOP AND/ OR MECHANICAL EQUIPMENT ABOVE THE LEASED PREMISES AND WITHIN THE LEASED PREMISES, AT TENANT EXPENSE. PATCH AND REPAIR ROOF AS NEEDED.
23. TENANT'S GC TO LABEL ALL ROOF TOP EQUIPMENT WITH TENANT NAME SPACE NUMBER AND EQUIPMENT IDENTIFICATION (RTU-1, EF-1), PER MALL SPECIFICATIONS/ STANDARDS.
24. ALL AIR CONDITIONING CONDENSATE DRAIN LINES FROM EACH AIR HANDLING UNIT SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET, WITH "P" TRAP, AND PIPED TO THE NEAREST DRAIN. CONDENSATE DRAIN PIPING SHALL BE COVERED. SEE THE DETAILS SHOWN IN THE DRAWINGS OR THE CONTRACT SPECIFICATIONS FOR THE DEPTH OF THE AIR CONDITIONING CONDENSATE TRAP.

25. REFER TO TYPICAL DETAILS FOR DUCTWORK, AND EQUIPMENT INSTALLATION.
26. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED. HVAC SYSTEM MUST BE TESTED & BALANCED BY A LICENSED CONTRACTOR. COPY OF BALANCE REPORT MUST BE PROVIDED TO THE PROPERTY MANAGEMENT OFFICE ON-SITE.
27. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS.
28. NO PITCH POCKETS ARE PERMITTED ON THE ROOF FOR ANY CONDENSATE DRAINS, REFRIGERATION PIPING OR CONTROL WIRING. ALL CONNECTIONS ARE TO BE MADE INSIDE THE EQUIPMENT CURB OR THROUGH PRE-MANUFACTURED PIPING CURB.
29. ALL UNEXPOSED SUPPLY AIR AND OUTSIDE AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 1 1/2" THICK FOIL FACE INSULATION. INTERNALLY LINED DUCTWORK MAY BE USED FOR ACOUSTIC PURPOSES ONLY, NOT AS A SUBSTITUTE FOR EXTERNAL INSULATION.
30. ALL DUCTWORK SHALL BE SHEET METAL. FLEX DUCT MAY BE ONLY USED IN RUNS OF 5'-0" OR LESS.
31. AT CONCLUSION OF PROJECT, HVAC SYSTEM MUST BE TESTED AND BALANCED BY A LICENSED CONTRACTOR. COPY OF BALANCE REPORT MUST BE PROVIDED TO PROPERTY MANAGEMENT OFFICE ON-SITE.
32. LANDLORD STRONGLY PREFERS TO USE OF ENERGY STAR PRODUCTS AND/OR EQUIPMENT WHENEVER POSSIBLE DURING TENANT BUILD OUT, WHICH CAN REDUCE ENERGY CONSUMPTION.

CONSULTANTS
(MEP ENGINEER):

NY ENGINEERS

NEARBY ENGINEERS

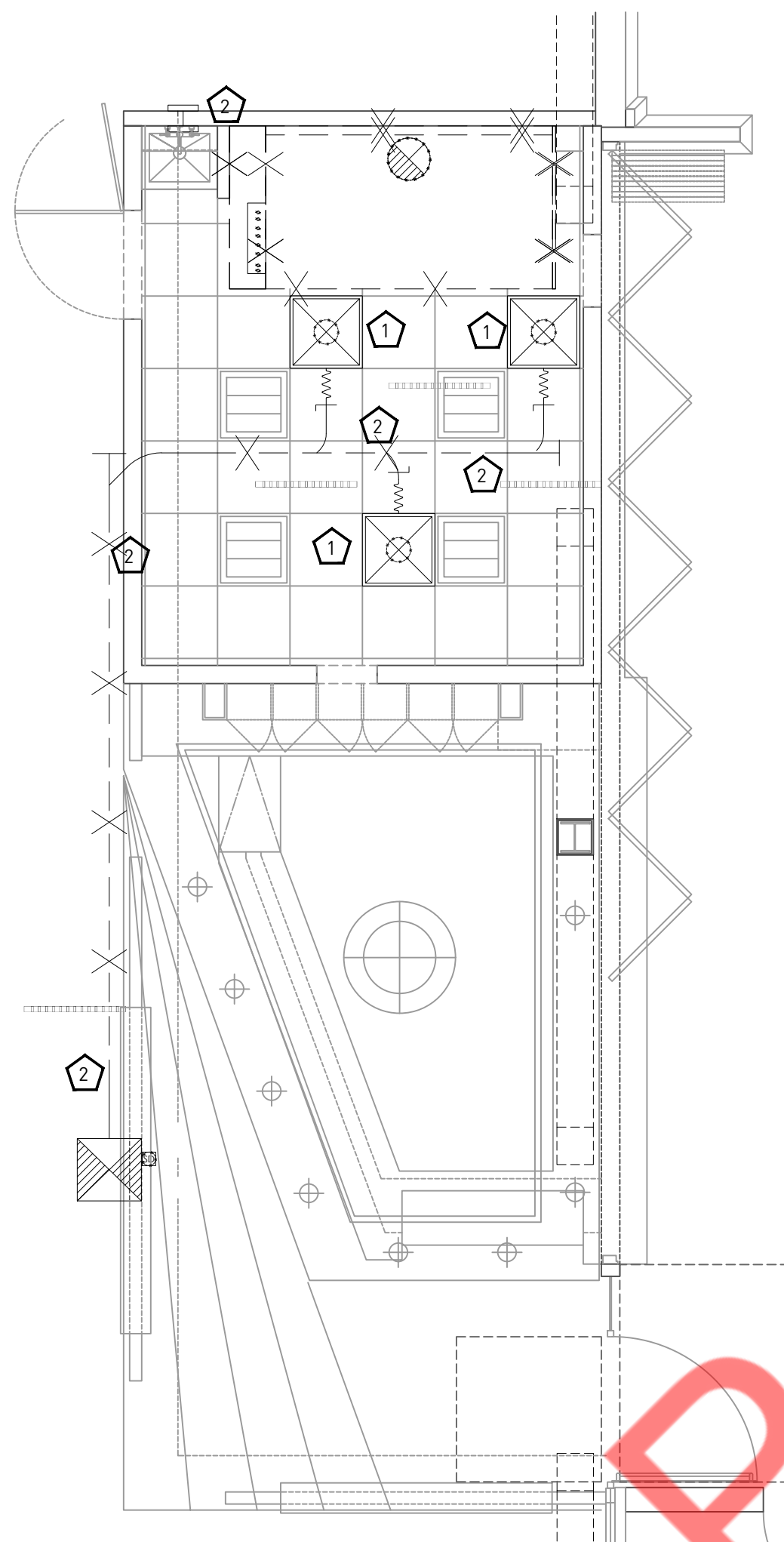
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CHAGEE
SOUTH COAST PLAZA

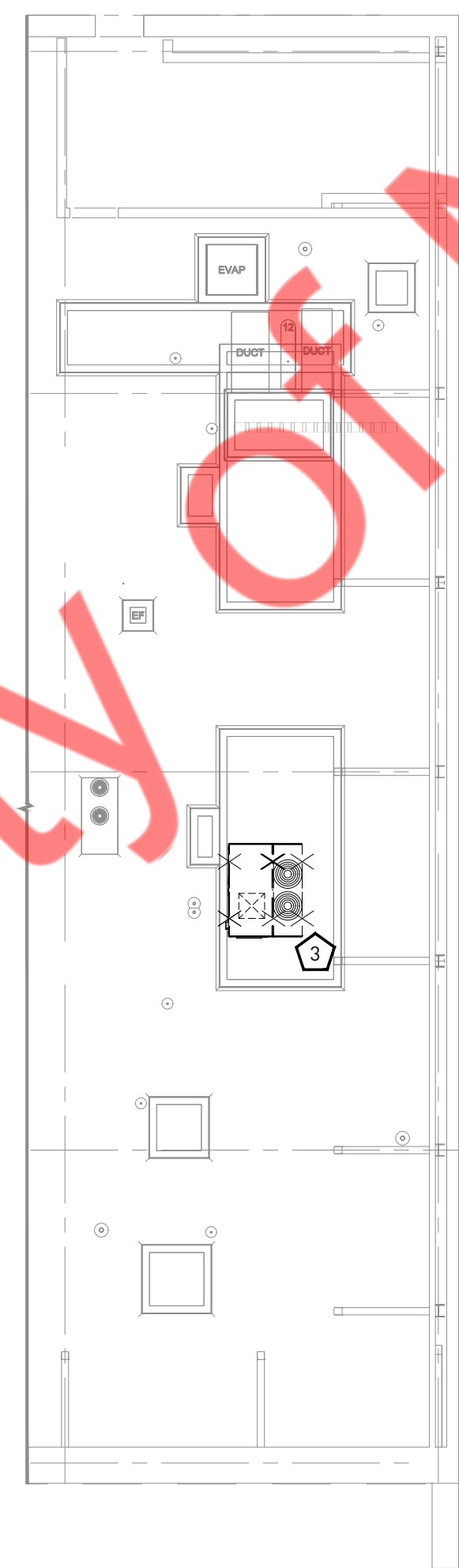
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01 CITY COMMENTS	10-27-25
02 CITY COMMENTS	11-26-25

MECHANICAL
SPECIFICATIONS
(1 OF 2)

M0.01








MECHANICAL DEMO FLOOR PLAN | 1
1/4" = 1'-0"



MECHANICAL DEMO ROOF PLAN | 2

1/4" = 1'-0"

<p>LEGEND:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">  </div> <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">  </div> </div>	<p>MECHANICAL DEMOLITION WORK</p>
	<p>SUPPLY/RETURN DIFFUSERS</p>
<p><u>DEMO PLAN KEY NOTES:</u></p> <div style="display: flex; flex-direction: column; gap: 10px;"> <div style="display: flex; align-items: flex-start;"> <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin-right: 10px;">  </div> <p>ALL EXISTING SUPPLY/RETURN & EXHAUST DIFFUSERS TO BE DEMOLISHED.</p> </div> <div style="display: flex; align-items: flex-start;"> <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin-right: 10px;">  </div> <p>ALL EXISTING DUCTWORKS TO BE DEMOLISHED.</p> </div> <div style="display: flex; align-items: flex-start;"> <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin-right: 10px;">  </div> <p>ALL EXISTING HVAC EQUIPMENT TO BE DEMOLISHED.</p> </div> </div>	
<p><u>DEMO NOTES:</u></p> <ol style="list-style-type: none"> 1. PATCH ALL THE ROOF PENETRATIONS WHICH ARE NOT REUSED. COORDINATE WITH ROOFING CONTRACTOR. 2. ALL SHUT DOWNS OF EXISTING SYSTEMS SHALL BE SCHEDULED AND APPROVED BY THE OWNER PRIOR TO COMMENCING WORK. 3. NO DUCTWORK, PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED, OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE OWNER AND/OR ENGINEER TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL, OR DISCONNECTION, 1 WEEK NOTICE MUST BE GIVEN TO THE OWNER INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD. 4. ALL ITEMS REMOVED SHALL BECOME PROPERTY OF THE OWNER AND SHALL BE DISPOSED OF AS PER OWNER'S INSTRUCTIONS, UNLESS INDICATED OTHERWISE. ALL ITEMS WHICH ARE NOT TO BE STORED ON SITE BY OWNERS SHALL BE REMOVED FROM THE BUILDING IMMEDIATELY. 5. ALL NEW, RELOCATED, OR EXISTING EQUIPMENT AFFECTED BY THIS SCOPE OF WORK SHALL BE REBALANCED BEFORE BEING PLACED IN SERVICE. 6. PROVIDE ALL REQUIRED CUTTING AND PATCHING AS REQUIRED TO COMPLETE THE INSTALLATION OF NEW MECHANICAL SYSTEM. PATCH ALL SURFACES TO MATCH AND MAINTAIN ALL FIRE RATINGS. 7. EXISTING ROOF CUTTING, FLASHING, SEALING, ETC. TO BE ACCOMPLISHED BY A ROOFING CONTRACTOR APPROVED BY THE EXISTING ROOF MANUFACTURER AND INSTALLED IN ACCORDANCE WITH ROOF MANUFACTURER'S RECOMMENDATIONS SO AS NOT TO VOID ROOF WARRANTY. 8. THE FIRE PROOFING OF THE EXISTING STRUCTURE IS NOT TO BE REMOVED FOR THE INSTALLATION OF HANGERS, SUPPORTS AND DUCTWORK ETC. IF FIRE PROOFING IS DAMAGED, IT SHALL BE REPAIRED AT THE EXPENSE OF THE TRADE. 9. REUSE EXISTING ROOF CURBS WHEREVER POSSIBLE. REFER TO THE MECHANICAL ROOF PLAN ON SHEET M1.02. 10. REPAIR EXISTING ROOF CURBS IF REQUIRED. PROVIDE CURB ADAPTORS AS/IF REQUIRED. 	

CONSULTANTS
(MEP ENGINEER):

NY ENGINEERS

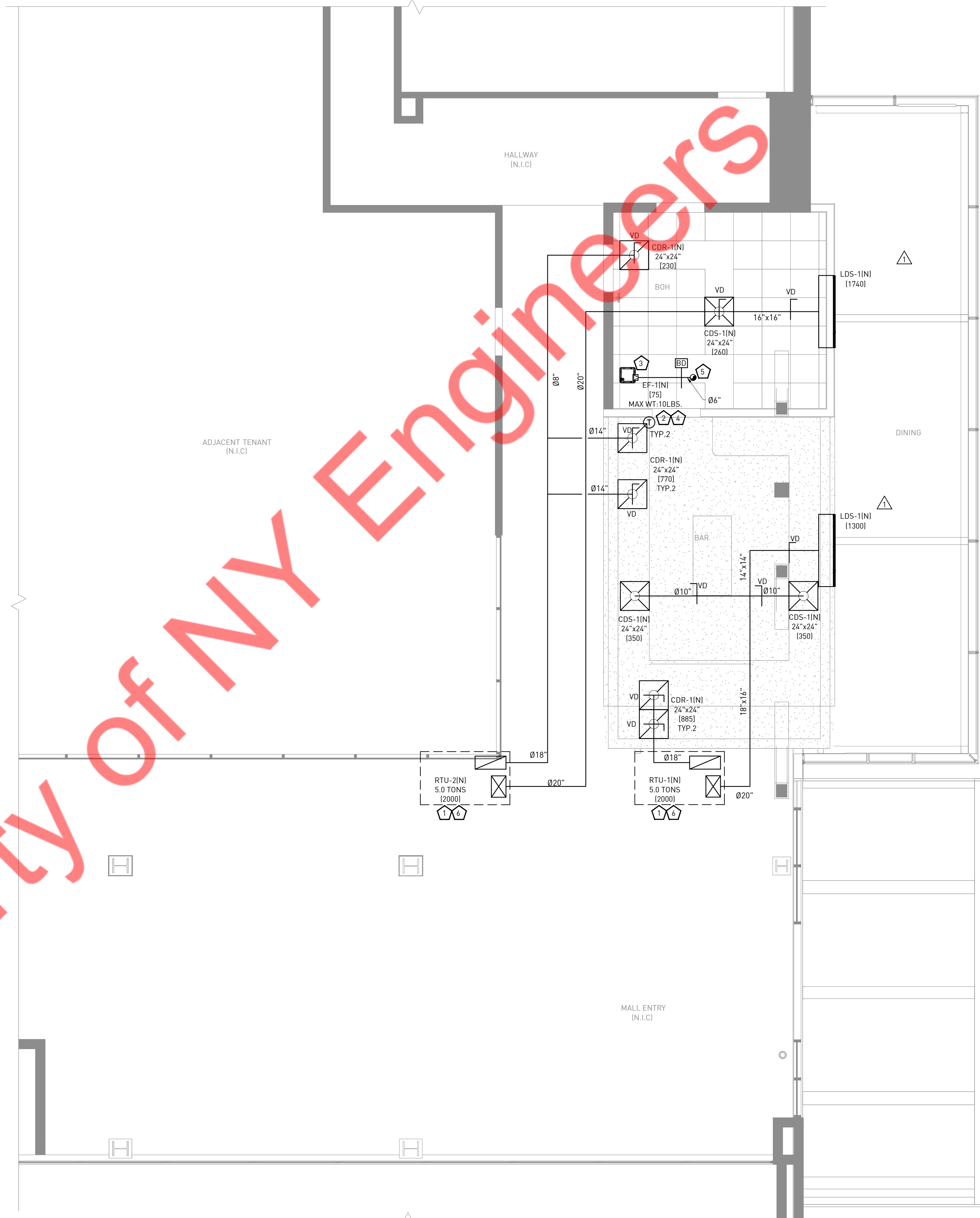
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CHAGEE
SOUTH COAST PLAZA

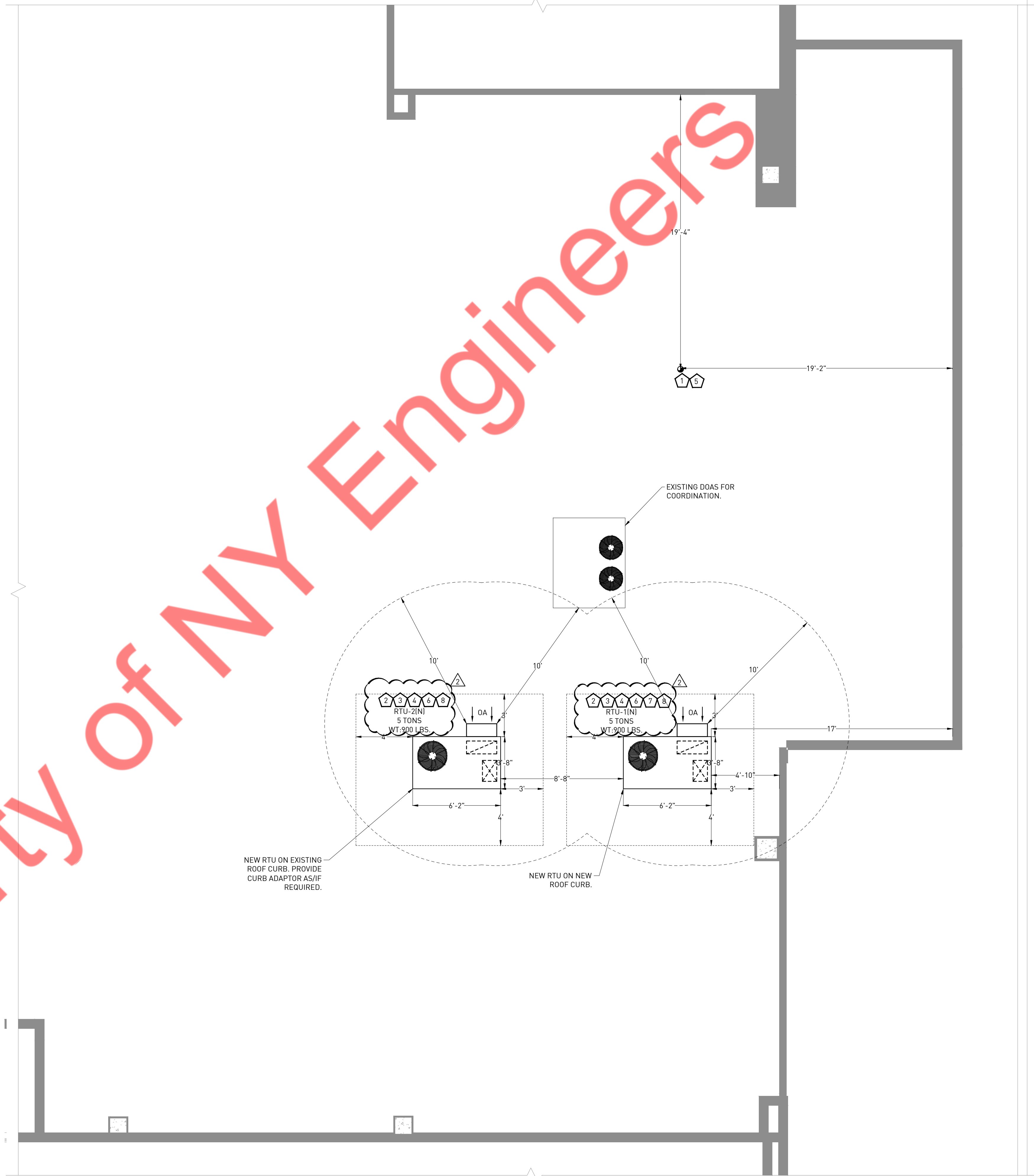
△ ISSUANCE NAME	DATE
01 CITY COMMENTS	10-27-25
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MECHANICAL DEMOLITION PLAN

MD1.01



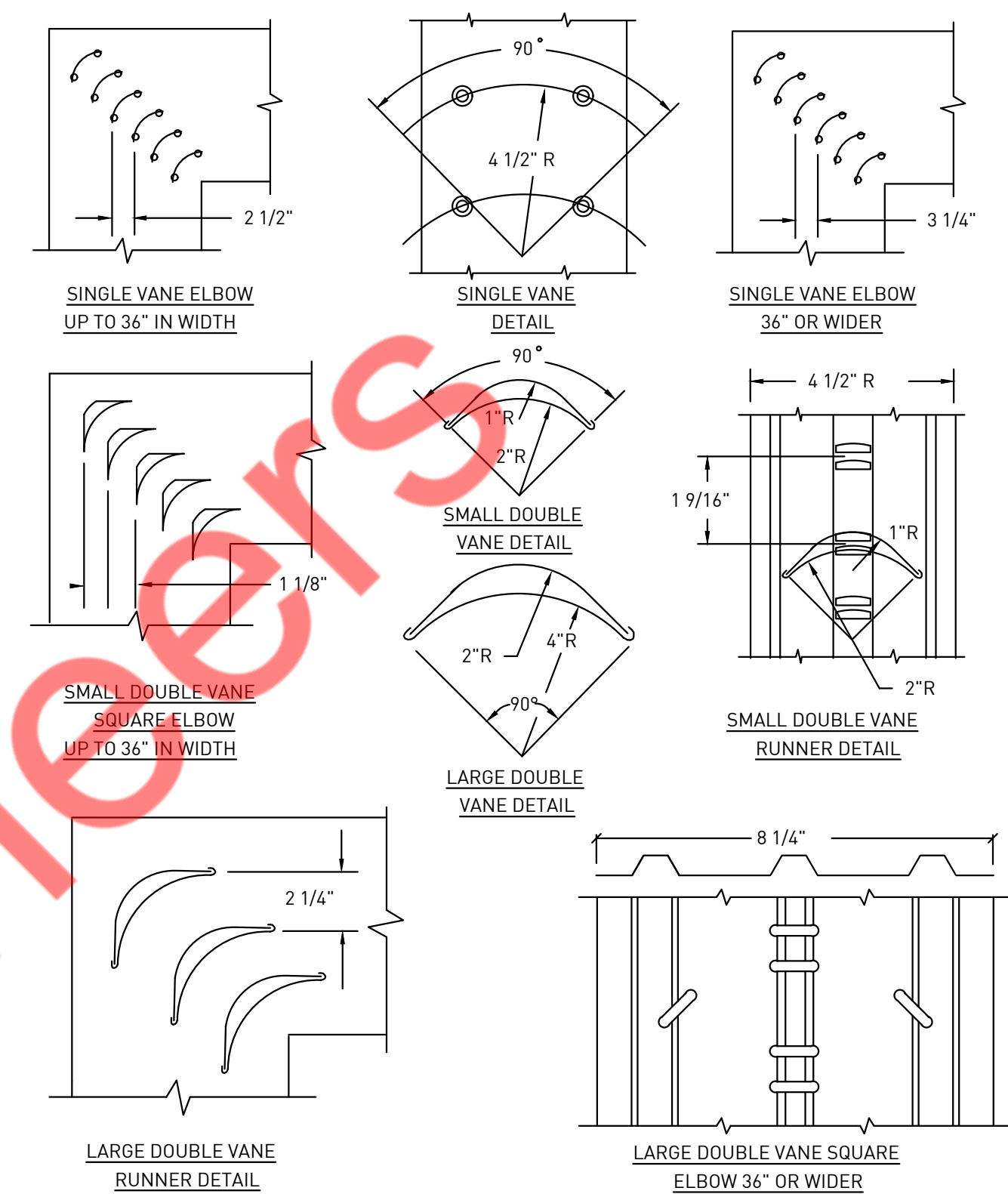
M1.01



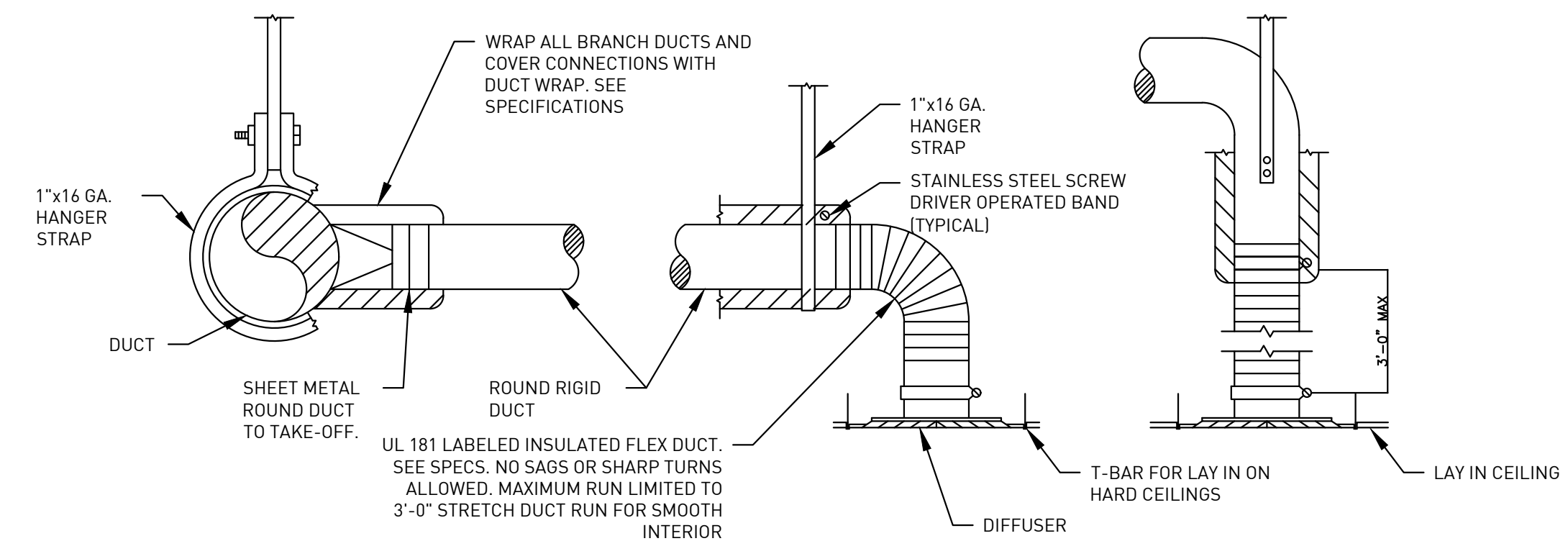
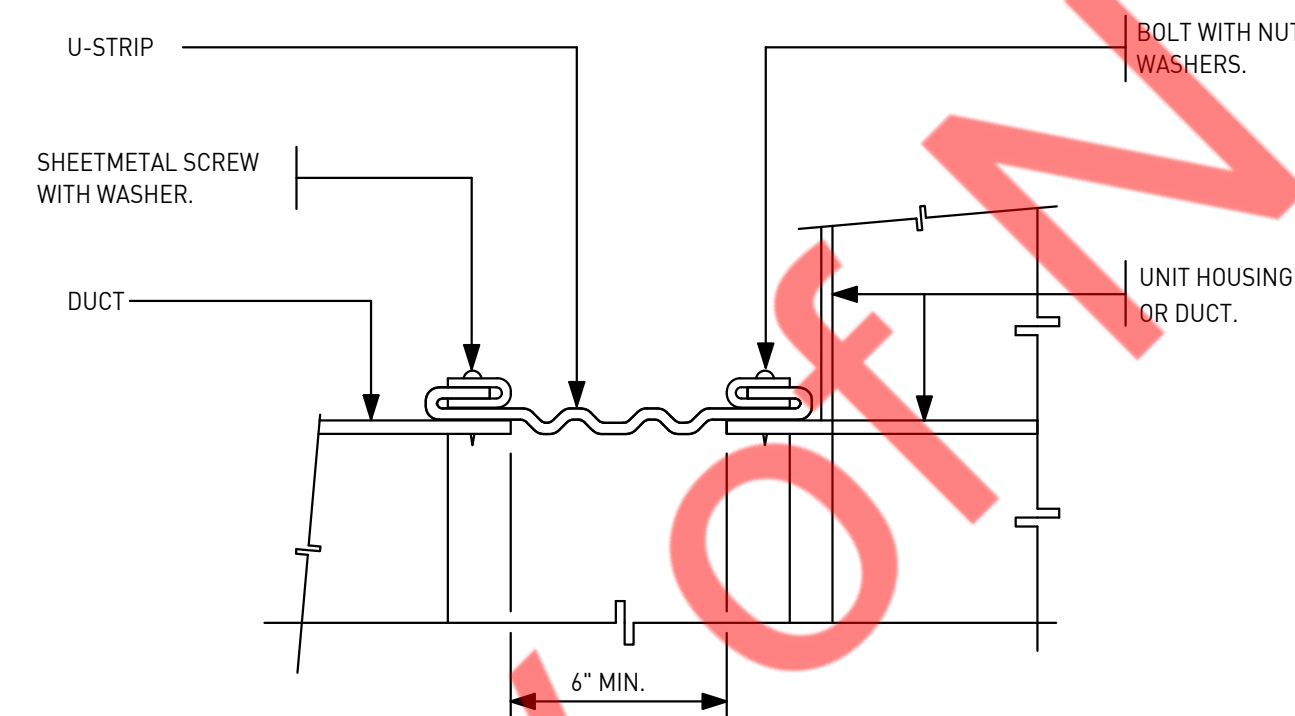
CHAGEE
SOUTH COAST PLAZA

△ ISSUANCE NAME	DATE
01 CITY COMMENTS	10-27-25
02 CITY COMMENTS	11-26-25

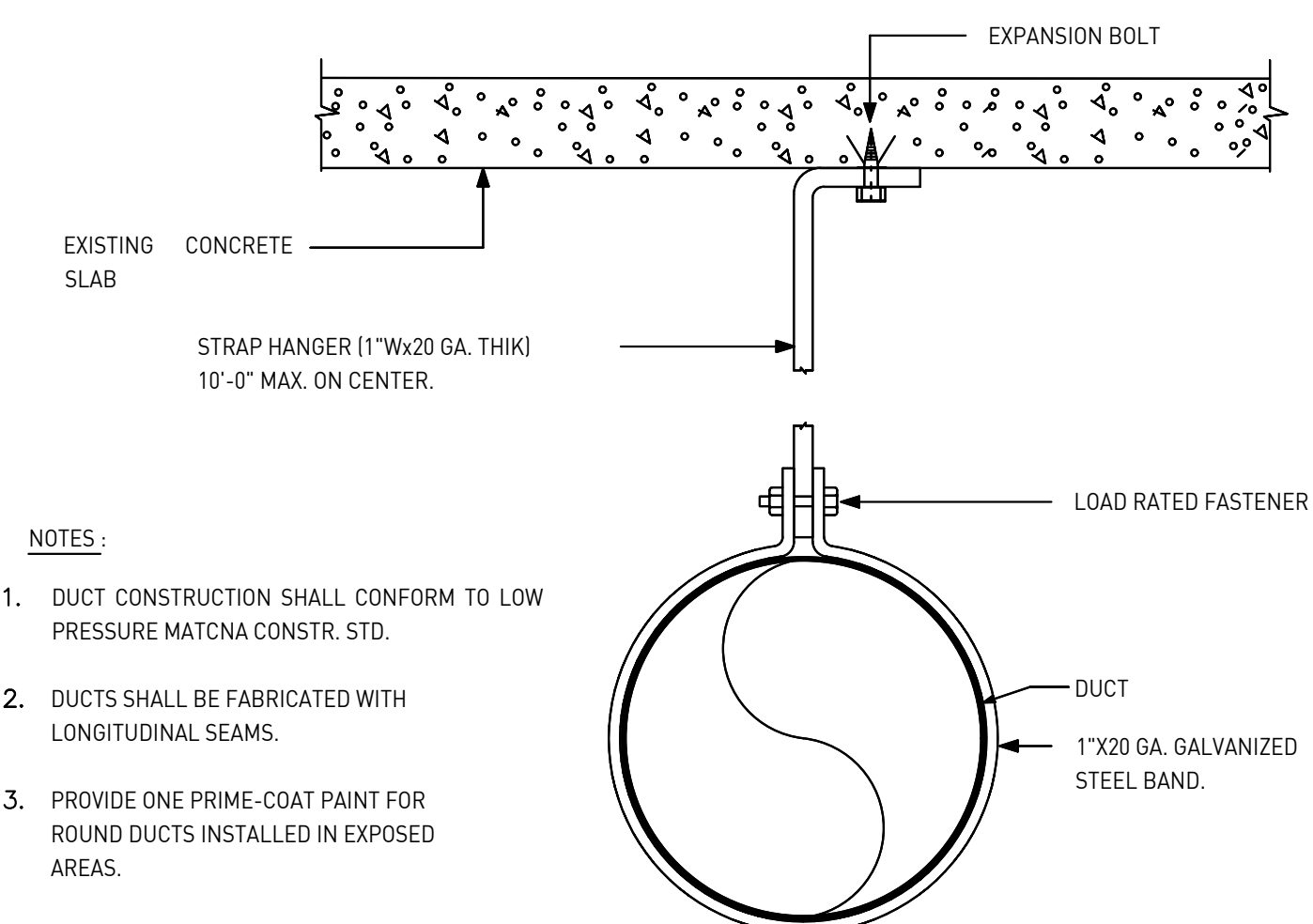
M1.02



3 LOW VELOCITY DUCTWORK ELBOWS
M5.01 N.T.S



6	TYPICAL DIFFUSER CONNECTION DETAIL
M5.01	N.T.S



8
M5.01

METHOD OF HANGING DUCTWORK
N.T.S

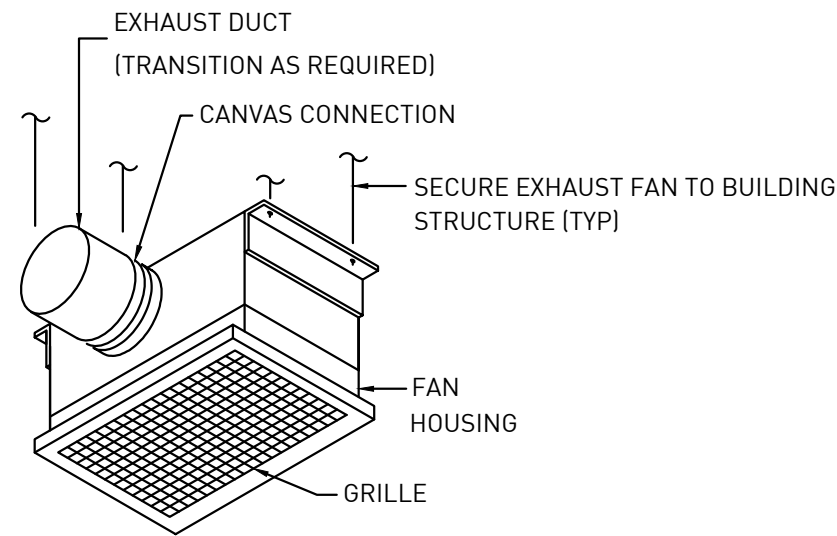
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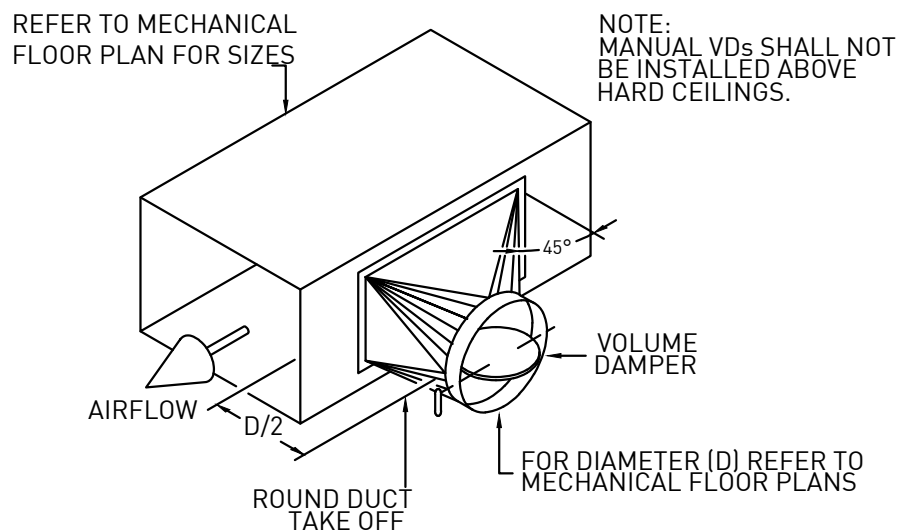
△ ISSUANCE NAME	DATE
01 CITY COMMENTS	10-27-25
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MECHANICAL
DETAILS
(1 OF 2)

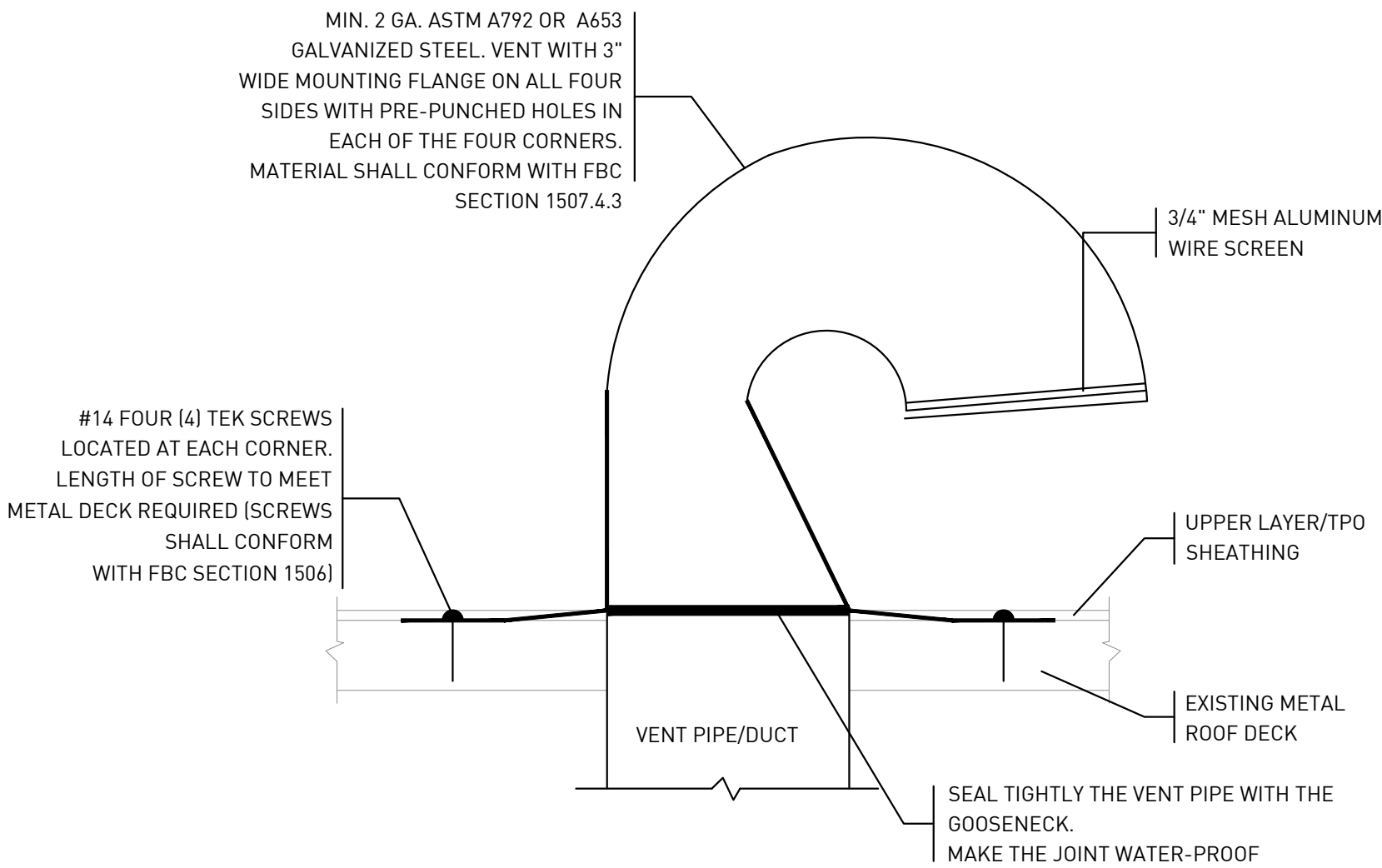
M5.01



1
M5.02 CEILING EXHAUST FAN DETAIL
N.T.S



2
M5.02 ROUND DUCT TAKE OFF DETAIL
N.T.S

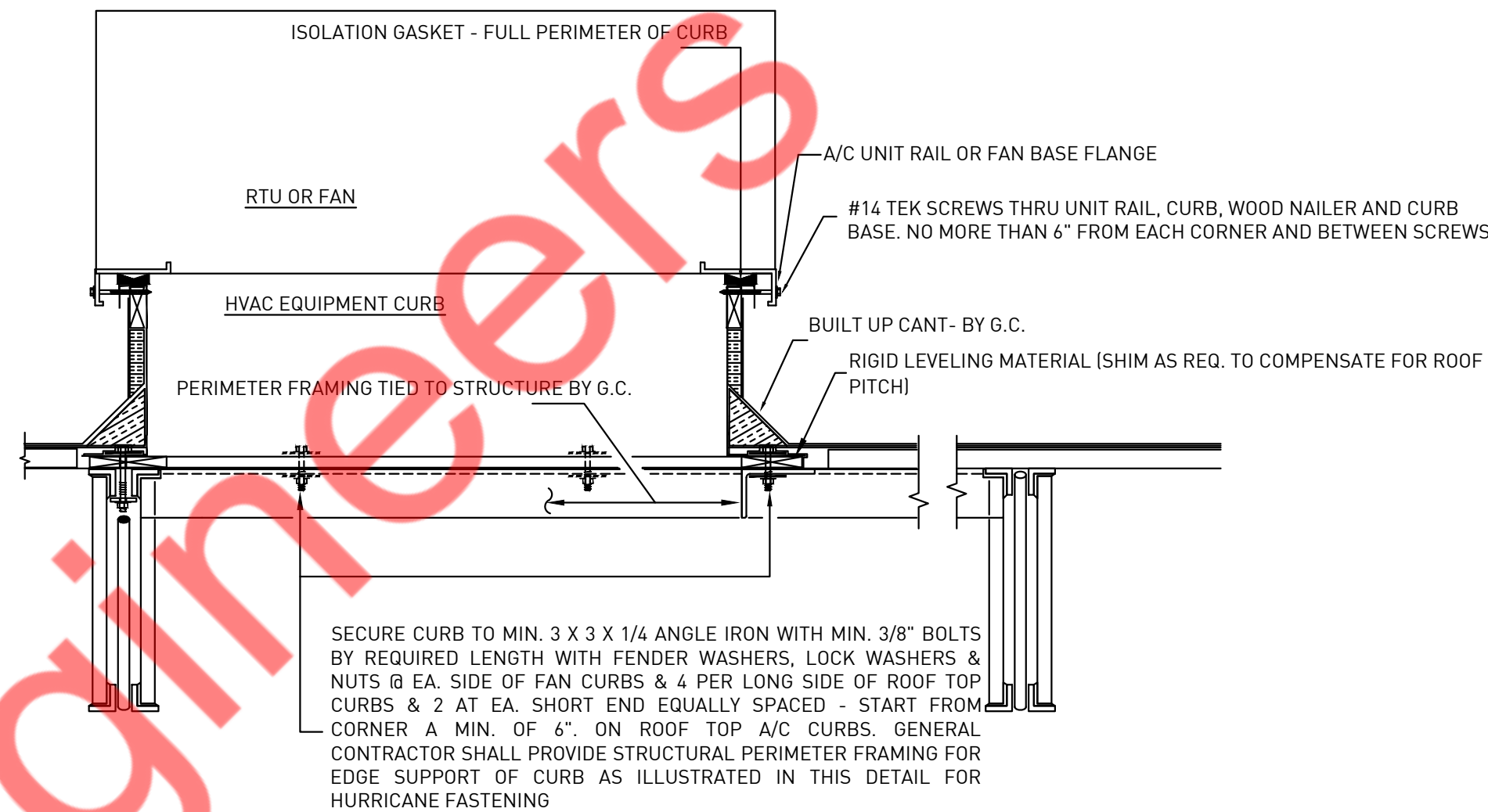


ATTACHMENT METHOD:
CUT OUT THE GOOSENECK VENT OPENING IN THE ROOF SHEATHING ACCORDING WITHIN MAXIMUM DIMENSIONS. DO NOT CUT INTO TRUSSES OR RAFTERS WHEN CUTTING OPENING IN THE ROOF.

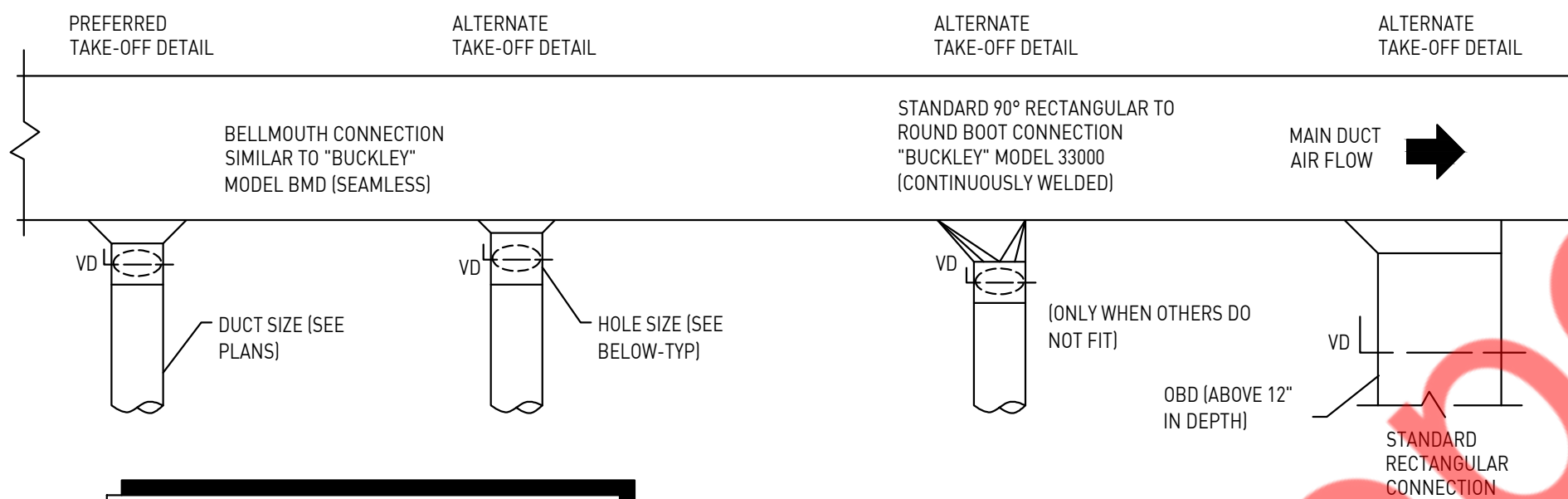
REMOVE INTERFERING SHINGLE NAILS AROUND THE PERIMETER OF THE OPENING AND ANY DEBRIS SO THAT THE NAILING FLANGE OF THE VENT LAYS FLAT TO THE ROOF SHEATHING. SLIDE THE TOP AND SIDE FLANGES OF THE VENT UNDERNEATH THE SHINGLES AND ALLOW THE BOTTOM FLANGE TO LIE ON THE TOP OF THE SHINGLES. CARE SHOULD BE TAKEN IN KEEPING THE VENT PROPERLY ALIGNED. VENT PIPE IS SEALED IF UTILIZED. SCREW IN PLACE USING FOUR (4) TEK SCREWS LOCATED AT EACH CORNER (SCREWS SHALL CONFORM WITH FBC SECTION 1506). ROOFING CEMENT SHOULD BE APPLIED TO ALL SHINGLE EDGES NEAR THE OUTER EDGE AND AROUND THE ENTIRE PERIMETER.

ALLOWABLE ROOF COVERINGS: ASPHALT SHINGLES

MAXIMUM DESIGN PRESSURE:
-52.5 PSF FOR INSTALLATIONS OVER PLYWOOD DECK
-22.5 PSF FOR INSTALLATION OVER OSB DECK
PRESSURES CALCULATED USING 2.1 MARGIN OF SAFETY PER 1504.9.



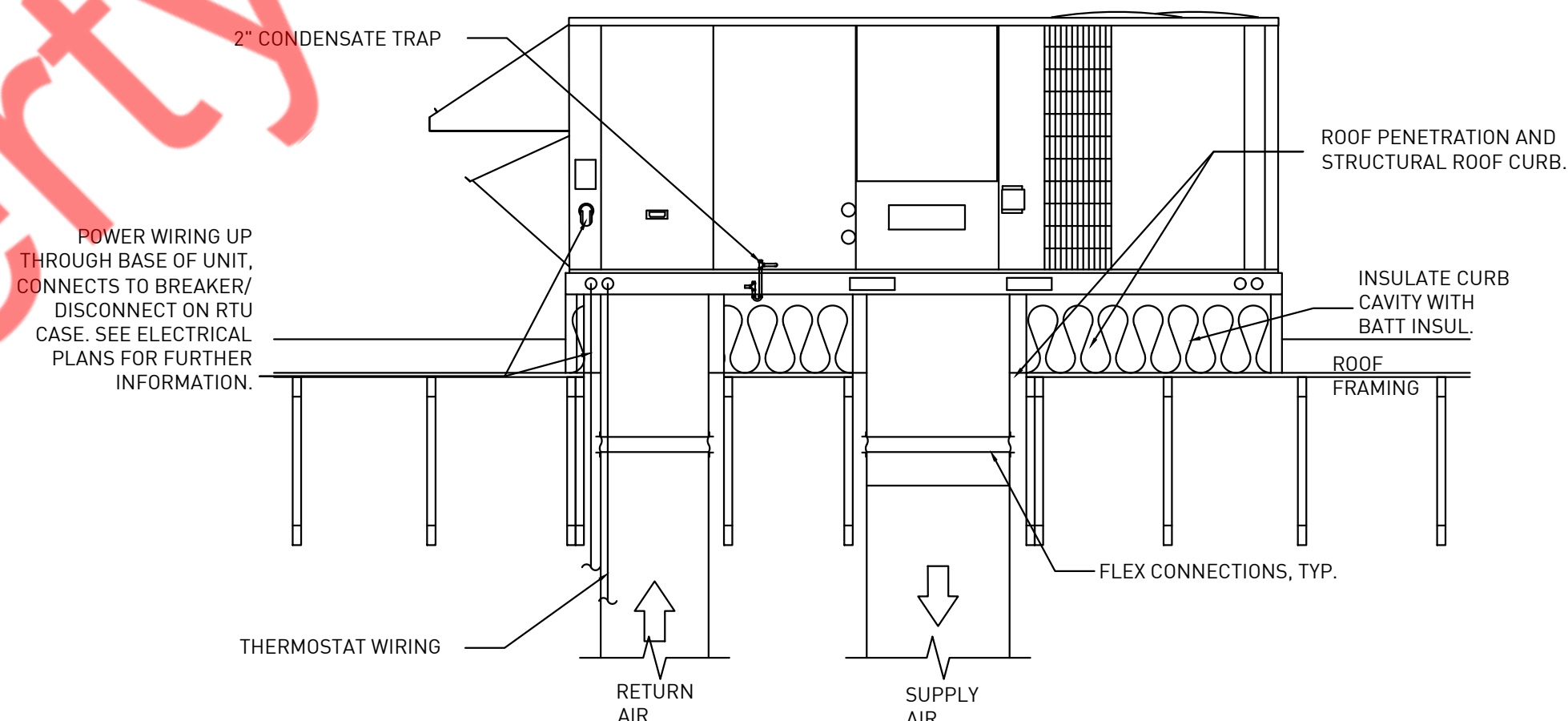
4
M5.02 ROOF TOP UNIT INSTALLATION DETAILS
N.T.S



THIS DETAIL APPLIES TO SINGLE TAKEOFFS TO DIFFUSER AS WELL AS BRANCH TAKEOFFS IT ALSO APPLIES TO TAKEOFFS IN THE HORIZONTAL AS WELL AS VERTICAL DIRECTION

NOTE: ALTERNATE FITTINGS SHALL BE USED WHEN DUCT HEIGHTS DOES NOT PERMIT THE USE OF THE PREFERRED FULL SIZE BELLMOUTH SUBMIT FITTINGS FOR REVIEW BY ENGINEER PRIOR TO INSTALLATION

5
M5.02 DUCT TAKEOFFS
N.T.S



6
M5.02 RTU UNIT SUPPORT DETAIL
N.T.S

CONSULTANTS
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ISSUANCE NAME	DATE
01 CITY COMMENTS	10-27-25
02 CITY COMMENTS	11-26-25

MECHANICAL
DETAILS
(2 OF 2)

M5.02

NEW ROOF TOP UNIT SCHEDULE																						
UNIT ID	MANUFACTURER	QUANTITY	MODEL	AREA SERVED	NOMINAL TONS	SUPPLY FAN			HEATING CAPACITY		COOLING CAPACITY				ELECTRICAL DATA				HSPF2/COP	EER2	SEER2	MAX WEIGHT (LBS.)
						SUPPLY AIR CFM	OUTSIDE AIR CFM	MAX. ESP (IN. OF W.G.)	TOTAL MBH (HEAT PUMP)	COP	TOTAL MBH	SENSIBLE MBH	AMBIENT TEMP. DB (°F)	ENTERING TEMP. DB / WB (°F)	VOLTS	PHASE	MCA (A)	MOCp (A)				
RTU-1(N), RTU-2(N)	CARRIER OR EQUIVALENT	2	50FEQA06A2A5-0B9A0	SEE PLAN	5	2000	230 (EACH)	1	56.9	3.8	63.4	49.5	95	80/67	208/230	3	35	50	6.7/3.7	11.5	13.4	900
NOTES / ACCESSORIES -																						
1. PROVIDE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF & FDD.																						
2. CONNECT CONDENSATE DRAIN LINE FROM RTUS ON THE ROOF TO THE NEAREST DRAIN POINT. CONNECT TO A DRAIN LINE VIA AIR GAP IN AN APPROVED MANNER.																						
3. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND CONFIGURATION OF RTUs ON SITE.																						
4. CONTRACTOR TO REBALANCE OUTSIDE AIR & RETURN AIR DAMPERS ON RTUs TO MATCH VALUES MENTIONED IN ABOVE TABLE.																						
5. PROVIDE MINIMUM MERV-13 FILTERS.																						
6. REUSE EXISTING ROOF CURB. PROVIDE NEW ROOF CURB ADAPTOR.																						
7. PROVIDE FACTORY MOUNTED AND WIRED VARIABLE FREQUENCY DRIVE FOR 2-SPEED SUPPLY FAN OPERATION.																						
8. PROVIDE FACTORY MOUNTED WEATHER HOOD AND BIRDSCREEN.																						
9. PROVIDE WITH FACTORY INSTALLED DIRTY FILTER SWITCH AND BLOWER PROVING SWITCH.																						
10. PROVIDE WITH FACTORY HAIL GUARDS.																						
11. PROVIDE FACTORY CONDENSATE OVERFLOW SWITCH.																						
12. PROVIDE WITH HOT-GAS REHEAT COIL AND DEHUMIDIFICATION CONTROLS.																						
13. PROVIDE UNIT IDENTIFICATION IN ACCORDANCE WITH SPECIFICATIONS.																						
14. INSTALL ACCESSORIES SHIPPED LOOSE TO THE FIELD.																						
15. PROVIDE A COMPLETED START UP CHECKLIST CONFIRMING ALL UNITS ARE WORKING PROPERLY STARTED AND RUNNING.																						
16. SUPPLY FAN SET TO RUN CONTINUOUS.																						
17. BOTTOM DISCHARGE AND RETURN CONFIGURATION.																						
18. UNIT TO BE PROVIDED WITH LOW LEAKAGE VOLUME CONTROL DAMPER, NEMA 3R DISCONNECT, FAN WITH VFD, VIBRATION ISOLATION SPRING SUPPORTED BLOWER, INTAKE HOOD, SCREEN INTAKE.																						
19. PROVIDE FLEXIBLE CONNECTION AT DUCT CONNECTION TO UNIT.																						
20. PROVIDE VIBRATION ISOLATOR FOR UNIT MOUNTING.																						
21. PROVIDE ALL COMPRESSORS WITH 5 YEAR WARRANTY.																						
22. ANTI SHORT CYCLE TIMER.																						

FAN SCHEDULE													
TAG	LOCATION	QTY	FLOW RATE	STATIC PRESSURE	ELECTRIC DATA				MAXIMUM	WEIGHT	BASIS OF DESIGN		NOTES
			CFM	EXTERNAL IN W.G.	SPEED RPM	BHP	MCA/ MOCp (A)	V/PH/HZ	LOUDNESS SONES		LBS.	MANUFACTURER	
EF-1(N)	SEE PLAN	1	75	0.51	773	0.01	0.4/15	115/1/60	3	10	GREENHECK OR EQUIVALENT	SP-LP0511-1	1,2,3,4
NOTES:-													
1. PROVIDE INTEGRAL BACKDRAFT DAMPER, FACE GRILLE.													
2. INTERLOCK WITH RTU-1(N).													
3. PROVIDE FACTORY MOUNTED AND INSTALLED DISCONNECT.													
4. PROVIDE ACCESS DOOR TO SERVICE UNIT IF IN HARD CEILING.													

AIR BALANCE					
UNIT	AREA SERVED	SUPPLY AIR	OUTSIDE AIR	RETURN AIR	EXHAUST AIR
RTU-1(N)	SEE PLAN	2000 CFM	230 CFM	1770 CFM	-
RTU-2(N)	SEE PLAN	2000 CFM	230 CFM	1770 CFM	-
EF-1(N)	SEE PLAN	-	-	-	75 CFM
TOTAL:	4000 CFM	460 CFM	3540 CFM	75 CFM	
BUILDING PRESSURE:	385 CFM	POSITIVE		
1. CONTRACTOR TO ADJUST MOTORIZED DAMPER ON OUTSIDE AIR TAP TO PROVIDE OUTSIDE AIR AS MENTIONED IN ABOVE TABLE.					

MECHANICAL AIR TERMINAL DEVICES SCHEDULE							
TAG	FACE SIZE (IN.)	NECK SIZE (IN.)	DESCRIPTION	MATERIAL	BASIS OF DESIGN		NOTES
					MANUFACTURER	MODEL	
CDS-1(N)	24"X24"	REFER TABLE BELOW	ALUMINIUM HIGH PERFORMANCE THREE CONE DIFFUSER	ALUMINIUM	TITUS OR EQUIVALENT	TMS-AA	1-5
LDS-1(N)	60"X5-3/16"	REFER PLAN	SUPPLY AIR SLOT DIFFUSER	ALUMINIUM	TITUS OR EQUIVALENT	FL-30 1-SLOT-3"	1-5
CDR-1(N)	24"X24"	REFER TABLE BELOW	ALUMINIUM EGGCRATE RETURN	ALUMINIUM	TITUS OR EQUIVALENT	50F	1-5
NOTES FOR NEW:							
1. COORDINATE BORDER AND FRAME MOUNTING TYPE WITH ARCHITECTURAL CEILING.							
2. COORDINATE FINISH AND COLOR WITH ARCHITECT PRIOR TO ORDERING.							
3. VERIFY ACTUAL DIMENSIONS WITH ARCHITECT PRIOR TO ORDERING.							
4. MAXIMUM NOISE CRITERION RATING < 30 DBA.							
5. PROVIDE CORD OPERATED DAMPER IN INACCESSIBLE CEILING.							
FOR ROUND NECK DIFFUSER NECK SIZE SHALL BE :							
16" DIA : 801 & ABOVE							
14" DIA : 601-800							
12" DIA : 401-650							
10" DIA : 251-400							
8" DIA : 101-250							
6" DIA : 0-100							

VENTILATION CALCULATION AS PER CALIFORNIA ENERGY CODE 2022 - TABLE 120.1-A & 120.1-B								
ROOM NAME	AREA (SQ.FT.)	OCCUPANCY AS PER LAYOUT	TOTAL OUTDOOR AIR RATE	REQUIRED OA (CFM)	PROVIDED OA (CFM)	EXHAUST AIRFLOW RATE (CFM/SQ.FT OR CFM/UNIT)	REQ EXHAUST AIRFLOW RATE (CFM)	PROVIDED EXHAUST AIRFLOW RATE (CFM)
			CFM/SQ.FT					
L1-01 DINING	525	22	0.50	263	460	0	0	0
L1-02 BOH	198	4	0.15	30		0.3	59	75
L1-03 BAR	319	4	0.50	160		0	0	0
TOTAL	1042	30	-	452		-	59	75

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CHAGEE
SOUTH COAST PLAZA

△ ISSUANCE NAME	DATE
01 CITY COMMENTS	10-27-25
02 CITY COMMENTS	11-26-25

MECHANICAL
SCHEDULES

M6.01

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.

Project Name:

CHAGEE, SOUTH COAST PLAZA

Report Page:

(Page 1 of 10)

Project Address:

Date Prepared:

2025-06-25T06:28:34-04:00

A. GENERAL INFORMATION

01 Project Location (city)	04 Total Conditioned Floor Area	1042
02 Climate Zone	05 Total Unconditioned Floor Area	0
03 Occupancy Types Within Project:	06 # of Stories (Habitable Above Grade)	1
• Restaurant		

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Water Economizer	<input checked="" type="checkbox"/> Air Economizer
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat
Mechanical Controls	<input type="checkbox"/> System Piping	<input checked="" type="checkbox"/> Fan Systems
<input checked="" type="checkbox"/> Mechanical Controls (existing to remain, altered or new)	<input type="checkbox"/> Cooling Towers	<input checked="" type="checkbox"/> Ductwork (existing to remain, altered or new)
	<input type="checkbox"/> Chillers	<input checked="" type="checkbox"/> Ventilation
	<input type="checkbox"/> Boilers	<input type="checkbox"/> Zonal Systems/ Terminal Boxes

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000
Schema Version: rev 20220101

Generated Date/Time:

Documentation Software: Energy Code Ace

Compliance ID: 305302-0625-0005
Report Generated: 2025-06-25 03:28:39

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name:

CHAGEE, SOUTH COAST PLAZA

Report Page:

(Page 2 of 10)

Date Prepared:

2025-06-25T06:28:34-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01	02	03	04	05	06	07	08	09							
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4i	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(i), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND		AND		AND	Yes	AND		COMPLIES with Exceptional Conditions
Mandatory Measures Compliance (See Table Q for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

The permit applicant has indicated on Table J that ventilation calculations have been attached or included elsewhere on the plans.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
RTU-1(N), RTU-2(N)	2	Single zone	New/ Addition	Retail	<input type="checkbox"/>

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name:

CHAGEE, SOUTH COAST PLAZA

Report Page:

(Page 3 of 10)

Date Prepared:

2025-06-25T06:28:34-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (Includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11	
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3a1	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available ¹ 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2			Heating Output ^{2,3}		Cooling Output ^{2,3}		Load Calculations ^{3,4}
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)	
RTU-1(N), RTU-2(N)	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	Yes	56.9	56.9	0	49.5	63.4	56	109.5	

¹FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Heat recovery facilities are required.

²It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

³If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

⁴Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Rating Condition (*F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
RTU-1(N), RTU-2(N)	>=65,000 and <135,000	47 *Fdb/ 43 *Fwb OSA	COP	3.4	3.7	EER IEER	11 14.1	11.5 14.1

G. PUMPS

This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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STATE OF CALIFORNIA

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CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name:

CHAGEE, SOUTH COAST PLAZA

Report Page:

(Page 4 of 10)

Date Prepared:

2025-06-25T06:28:34-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	RTU-1(N), RTU-2(N)	Quantity	2	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,000	Site Elevation	54	Economizer	Differential Enthalpy
01	02	03	04	05	06	07	08	09	10	11					
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ¹	Design Electrical Input Power Method	Motor Nameplate Horsepower	Fan Electrical Input Power (kW)					
RTU-1(N), RTU-2(N)	Supply	2	Hydronic/DX cooling coil or heat pump coil	0.13		0.139	0.0002	Manufacturer provided		0.19					
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW) ¹		Fan System Electrical Input Power (kW)		0.38					

¹ FOOTNOTES: Fans serving spaces with design background noise goals below NC35

² Low-turnaround single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.

³ Fan system allowance includes fan system base allowance.

⁴ Filter pressure loss can only be counted once per fan system.

⁵ Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.

⁶ Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document..

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000
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Documentation Software: Energy Code Ace

Compliance ID: 305302-0625-0005
Report Generated: 2025-06-25 03:28:39

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name:

CHAGEE, SOUTH COAST PLAZA

Report Page:

(Page 5 of 10)

Date Prepared:

2025-06-25T06:28:34-04:00

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09	10
System Name	System Zoning	Conditione d Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c) ¹ 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D	Direct Digital Control (DDC) per 120.2
RTU-1(N), RTU-2(N)	Single zone	<= 25,000 ft²	Setback	NA: 7 day per 120.2(e)1	NA: Single Zone	DR Tstat per 110.12	NA: Single Zone	NA: No operable windows	NA: Single Zone

¹FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(a) and 140.4(a) for all nonresidential and hotel/motel and d:t24refnolink/1160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	<input checked="" type="checkbox"/>	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	<input type="checkbox"/>	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
03	<input type="checkbox"/>	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name:

CHAGEE, SOUTH COAST PLAZA

Report Page:

(Page 6 of 10)

Date Prepared:

2025-06-25T06:28:34-04:00

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK AND PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.

01	<input type="checkbox"/>	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.
----	--------------------------	--

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:

NEW DUCT

NR/ Common Use: Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?

No

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000
Schema Version: rev 20220101

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Compliance ID: 305302-0625-0005
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CHAGEE
SOUTH COAST PLAZA

△ ISSUANCE NAME DATE
01 CITY COMMENTS 10-27-25
02 CITY COMMENTS 11-26-25

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Mechanical Systems

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: CHAGEE, SOUTH COAST PLAZA

Report Page: (Page 7 of 10)

Date Prepared: 2025-06-25T06:28:34-04:00

L. DISTRIBUTION (DUCTWORK and PIPING)

		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	---
		Duct leakage testing per CMC Section 603.9.2 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.	
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:	
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18	No	All ductwork is an extension of an existing duct system	
19	No	Ductwork serving individual dwelling unit	
20		< 25 ft of new or replacement space conditioning ducts installed	
21	R-8	Duct Insulation R-value	
22	No	Ductwork Existing To Remain	
23	No	Duct System Connected To Altered Space Conditioning System	

M. COOLING TOWERS

This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Generated Date/Time: 2025-06-25 03:28:39

Documentation Software: Energy Code Ace

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Mechanical Systems

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: CHAGEE, SOUTH COAST PLAZA

Report Page: (Page 8 of 10)

Date Prepared: 2025-06-25T06:28:34-04:00

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4>

Form/Title

NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4>

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	RTU-1(N), RTU-2(N)
NRCA-MCH-05-A - Air Economizer Controls	RTU-1(N), RTU-2(N)
NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	RTU-1(N), RTU-2(N)

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000
Schema Version: rev 20220101

Generated Date/Time: 2025-06-25 03:28:39

Documentation Software: Energy Code Ace

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Report Generated: 2025-06-25 03:28:39

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Mechanical Systems

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: CHAGEE, SOUTH COAST PLAZA

Report Page: (Page 9 of 10)

Date Prepared: 2025-06-25T06:28:34-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01	02
Compliance with Mandatory Measures documented through MCH	No
Mandatory Measures Note Block	Plan sheet or construction document location
03	04
Mandatory Measure	Plan sheet or construction document location
Heating Equipment Efficiency per 110.1	REFER SHEET M6.01
Cooling Equipment Efficiency per 110.1	REFER SHEET M6.01
Furnace Standby Loss Control per 110.2(d)	N/A
Duct Insulation per 120.4	R-8
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)	N/A
The air duct and plenum system is designed per 120.4(e)(1)	REFER TO MECHANICAL NOTES ON SHEET M0.02
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2	N/A

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Documentation Software: Energy Code Ace

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Mechanical Systems

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: CHAGEE, SOUTH COAST PLAZA

Report Page: (Page 10 of 10)

Project Address: 2025-06-25T06:28:34-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: MICHAEL TOBIAS

Documentation Author Signature: [Signature]

Company: NY ENGINEERS

Signature Date: 2025-06-25

Address: 382 NE 191st, SUITE 49674

CEA/ HERS Certification Identification (if applicable):

City/State/Zip: MIAMI, FLORIDA 33179

Phone: (846) 878-9217

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: MICHAEL TOBIAS

Responsible Designer Signature: [Signature]

Company: NY ENGINEERS

Date Signed: 2025-06-25

Address:

License: M33750

City/State/Zip: MIAMI, FLORIDA 33179

Phone:

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CHAGEE
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△ ISSUANCE NAME	DATE
01 CITY COMMENTS	10-27-25
02 CITY COMMENTS	11-26-25

TITLE 24
SHEETS
(2 OF 2)

M7.02

5. USE FLEXIBLE CONDUIT FOR THE CONNECTION TO RECESSED OR SEMI-RECESSED LIGHTING FIXTURES (6" LENGTH MAXIMUM). USE LIQUID TIGHT METAL CONDUIT FOR ALL CONNECTIONS TO MOTORS AND OTHER EQUIPMENT SUBJECT TO VIBRATION AND IN AREAS SUBJECT TO MOISTURE.
6. USE WATER TIGHT JOINTS WITH BURIED AND CONCRETE ENCASED CONDUIT. ALL BURIED CONDUITS OUTSIDE OF BUILDINGS SHALL HAVE A MINIMUM OF 24" OF COVER. METAL CONDUITS BURIED IN EARTH SHALL BE PAINTED (TWO COATS) WITH HEAVY ASPHALTUM PAINT.
7. SUPPORT RUNS OF CONDUIT AS DETAILED IN THE APPROPRIATE TABLE OF THE NATIONAL ELECTRICAL CODE (NEC).
8. INSTALL EXPOSED RUNS OF CONDUIT AND CONDUIT ABOVE LAY IN CEILINGS PARALLEL OR PERPENDICULAR TO THE WALLS. STRUCTURAL MEMBERS OF INTERSECTIONS OF VERTICAL PLANES AND CEILINGS. PROVIDE RIGHT ANGLE TURNS USING FITTINGS OR SYMMETRICAL BENDS. SUPPORT CONDUITS WITHIN 1' OF ALL CHANGES IN DIRECTION.
9. IF A CONDUIT IS SUSPENDED, IT SHALL BE SUPPORTED ON TRAPEZE HANGERS WHICH USE "ALL-THREAD" RODS FROM THE STRUCTURAL STEEL. THE USE OF CEILING SUPPORT WIRE OR SIMILAR MATERIAL WILL NOT BE ACCEPTED.
10. INSTALL EMPTY CONDUIT FOR FUTURE USE AS INDICATED ON THE DRAWINGS. CONDUIT SHALL BE COMPLETE WITH JETLINE OR PULL ROPE, JUNCTION/OUTLET BOXES, TILE RINGS AND APPROPRIATE COVER PLATES.
11. PROVIDE PITCHPOCKETS WHERE CONDUITS PENETRATE THE ROOF.
12. THREAD LUBRICATION/SEALANT IS REQUIRED ON OUTDOOR AND UNDERGROUND THREADED METAL JOINTS.
13. INSTALL FIRE SEAL FITTINGS WHERE CONDUITS PENETRATE CONCRETE FLOOR SLABS OR MASONRY WALLS. REQUIRED TO BE FIRE RATED.
14. HORIZONTAL PORTION OF CONDUIT EXPOSED ON THE ROOF AND FEEDING EQUIPMENT SHALL NOT BE MORE THAN 5'-0" UNLESS THE WRITTEN APPROVAL FROM ARCHITECT OR ENGINEER IS OBTAINED.

PULL AND JUNCTION BOXES

1. INSTALL PULL AND JUNCTION BOXES WHERE SHOWN ON THE DRAWINGS, AND WHERE REQUIRED FOR CHANGES IN DIRECTION, AT JUNCTION POINTS, AND TO FACILITATE WIRE PULLING. FURNISH BOX SIZES IN ACCORDANCE WITH NEC UNLESS LARGER BOXES ARE INDICATED.
2. PROVIDE STEEL BOXES AND REMOVABLE COVERS OF CODE GAUGE, HOT ROLLED SHEET STEEL, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE, FOR ABOVE GROUND WORK. FURNISH WEATHERPROOF BOXES WHEN INSTALLED ABOVE GROUND OUTSIDE.
3. PROVIDE CAST IRON BOXES, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE WHERE SHOWN ON THE DRAWINGS, FURNISH REMOVABLE COVERS WITH GASKETS AND STAINLESS STEEL, BRASS OR BRONZE SCREWS.
4. PROVIDE CONCRETE BOXES FOR UNDERGROUND WORK UNLESS OTHERWISE INDICATED ON THE DRAWINGS. FURNISH STEEL FRAMES AND COVERS WITH THE COVER ATTACHED TO THE FRAME WITH HEXAGON HEAD, BRASS OR BRONZE CAP SCREWS, 3/8" DIAMETER. PROVIDE A RUBBER GASKET FOR SEALING BETWEEN THE COVER AND THE FRAME. PAINT THE COVER WITH TWO COATS OF HEAVY ASPHALTUM.

OUTLET BOXES

1. USE SHEET STEEL BOXES, ZINC COATED OR CADMIUM PLATED, FOR CONCEALED INTERIOR WORK.
2. USE CAST BOXES, ZINC-CADMIUM FINISH MALLEABLE IRON, FOR EXPOSED INTERIOR WORK, AND FOR EXPOSED OR CONCEALED WORK IN WET, DAMP OR EXTERIOR LOCATIONS.
3. WALL BOX SIZES (MINIMUM) SHALL BE 4" SQUARE x 2-1/2" DEEP WHERE WALL CONSTRUCTION PERMITS. WHERE WALL CONSTRUCTION DICTATES, THE WIDTH MAY BE REDUCED TO 2-1/8" OR 1-1/2" UNDER SPECIAL CONDITIONS.
4. FIXTURE OUTLETS IN CEILINGS (MINIMUM) SHALL BE 4" OCTAGONAL x 1-1/2" DEEP (4-11/16" OCTAGONAL x 2-1/2" DEEP WHERE REQUIRED TO ACCOMMODATE LARGER CONDUIT OR LARGER NUMBER OF WIRES).
5. GANG BOXES SHALL BE ONE PIECE (MINIMUM), 2-1/8" DEEP.
6. PROVIDE CONCRETE-TIGHT FLOOR BOXES WITH ADJUSTABLE COVERS SET FLUSH AND LEVEL WITH THE FINISHED FLOOR, WITH OUTLETS AS INDICATED ON THE DRAWINGS. PROVIDE WIREMOLD #EFB6S SERIES BOXES WITH LEVELING SCREWS FOR ABOVE GRADE APPLICATIONS, AND WIREMOLD #EFB6S-OG FOR ON-GRADE APPLICATIONS. FLUSH TYPE COVERS AND OPENINGS TO SERVE OUTLETS USED. FURNISH FLUSH CAPS FOR CLOSING OFF BOX WHEN NOT IN USE.
7. PROVIDE WIREMOLD EVOLUTION SERIES WALL BOX BEHIND ALL WALL MOUNTED FLAT SCREEN MONITORS. COORDINATE HEIGHT WITH ARCHITECT.
8. FLUSH MOUNT BOXES IN ALL FINISHED WALLS. INSTALL THE PLASTER GRINGS IN DRYWALLED PLASTERED WALLS AND RAISED COVERS AS REQUIRED IN WALLS WITH OTHER FINISHES SO THAT THE COVER PLATES FIT TIGHTLY AGAINST BOXES OR OUTLETS, 3/16" MAXIMUM GAPS ARE ALLOWED FOR NONCOMBUSTIBLE WALLS.
9. ADJUST LOCATION OF OUTLETS IN MASONRY OR TILE CONSTRUCTION TO OCCUR IN THE NEAREST JOINT TO THE HEIGHT SPECIFIED. HEIGHTS SHALL MEET A.D.A. REQUIREMENTS.
10. SUPPORT ALL BOXES TO MAINTAIN PROPER ALIGNMENT AND RIGIDITY.
11. CLEAN BOXES OF ALL FOREIGN MATTER PRIOR TO THE INSTALLATION OR WIRING OF DEVICES.
12. MOUNTING HEIGHTS ON THE DRAWINGS ARE TO THE CENTERLINE OF THE BOX UNLESS OTHERWISE NOTED.

WIRING DEVICES

1. WIRING DEVICE COLOR SHALL BE WHITE, UNLESS OTHERWISE INDICATED.
2. OCCUPANCY SENSOR SWITCHES SHALL BE 120/277 VOLT, DUAL TECHNOLOGY 0-10V DIMMING WALL SWITCH OCCUPANCY SENSORS, WATTSTOPPER #DW-311.
3. DIMMER SWITCHES SHALL BE WIDE SLIDE 0-10V PRESET DIMMER WITH INTEGRATED POWER PACK EQUAL TO PASS & SEYMOUR WS4FBL3PW.
4. GENERAL SWITCHES SHALL BE SPECIFICATION GRADE AS MANUFACTURED BY PASS & SEYMOUR.
5. CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOW VOLTAGE DUAL TECHNOLOGY, WATTSTOPPER #DT-300.
6. PROVIDE NEMA CONFIGURATION 5-20R DUPLEX 125 VOLT GROUNDING TYPE RECEPTACLES RATED FOR 20 AMPERES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
7. RECEPTACLES SHALL BE SPECIFICATION GRADE AS MANUFACTURED BY PASS & SEYMOUR.
8. RECEPTACLES REQUIRING AMPERAGES, VOLTAGES OR CONFIGURATIONS DIFFERENT FROM THE DUPLEX CONVENIENCE RECEPTACLES ABOVE SHALL BE AS INDICATED ON THE DRAWINGS.
9. PROVIDE OTHER RECEPTACLES OF A QUALITY, MATERIAL AND WORKMANSHIP EQUAL TO THAT SPECIFIED FOR DUPLEX CONVENIENCE RECEPTACLES.
10. PROVIDE COVER OR DEVICE PLATES FOR OUTLET BOXES AS FOLLOWS UNLESS OTHERWISE NOTED:
 - A. FINISHED AREAS: STAINLESS STEEL.
 - B. UNFINISHED AREAS: ZINC COATED SHEET METAL, ALUMINUM, OR CAST METAL, AS APPROPRIATE FOR THE TYPE OF BOX.
 - C. EXTERIOR AREAS: COPPER FREE ALUMINUM WITH GRAY, POWDER EPOXY FINISH, GASKET, WEATHERPROOF TELEPHONE, COMMUNICATION, AND SIGNAL OUTLET PLATES, SHALL MATCH THOSE USED FOR RECEPTACLES AND SWITCHES. ALL OUTLET AND/OR JUNCTION BOXES SHALL BE COMPLETE WITH A COVER PLATE BY THE SAME CONTRACTOR.
 - D. WHERE DEVICES ARE GANGED, THEY SHALL BE INSTALLED UNDER A COMMON COVERPLATE.

11. LOCATE THE SWITCHES APPROXIMATELY 4'-0" ABOVE THE FINISHED FLOOR ELEVATION OR NEAREST BLOCK COURSE (WITHIN A.D.A. REQUIREMENTS), UNLESS OTHERWISE INDICATED. THE LONG DIMENSION OF THE SWITCHES SHALL BE VERTICAL.
 12. LOCATE RECEPTACLES APPROXIMATELY 1'-6" ABOVE THE FINISHED FLOOR ELEVATION OR NEAREST BLOCK COURSE (WITHIN A.D.A. REQUIREMENTS), UNLESS NOTED OTHERWISE. THE LONG DIMENSION OF RECEPTACLES SHALL BE VERTICAL.
- SAFETY SWITCHES**
1. SAFETY SWITCHES SHALL BE THE ENCLOSED HEAVY-DUTY TYPE (TYPE HD) WITH QUICK-MAKE, QUICK-BREAK MECHANISM AND EXTERNAL PAD LOCKABLE OPERATING HANDLE.
 2. SAFETY SWITCHES SHALL BE RATED FOR 240 OR 600 VOLTS AS APPLICABLE. THEY SHALL BE HORSEPOWER RATED WHEN USED IN MOTOR CIRCUITS.
 3. SAFETY SWITCHES SHALL BE FUSIBLE OR NON-FUSIBLE, 2, 3, OR 4 POLE AS INDICATED ON THE DRAWINGS.
 4. SAFETY SWITCHES SHALL BE SINGLE THROW UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 5. ENCLOSURES SHALL BE NEMA 1 INDOORS AND NEMA 3R OUTDOORS UNLESS OTHERWISE INDICATED ON DRAWINGS.
 6. MANUFACTURER SHALL BE SQUARE D, SIEMENS, OR CUTLER-HAMMER. ALL SAFETY SWITCHES SHALL BE BY ONE MANUFACTURER.
 7. MOUNT THE SAFETY SWITCHES SECURELY BETWEEN 3' & 6' LEVELS ABOVE THE FLOOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 8. SWITCHES ON BLOCK WALLS SHALL BE MOUNTED ON A 3/4" PLYWOOD BACKBOARD, WHERE LOCATED INDOORS.

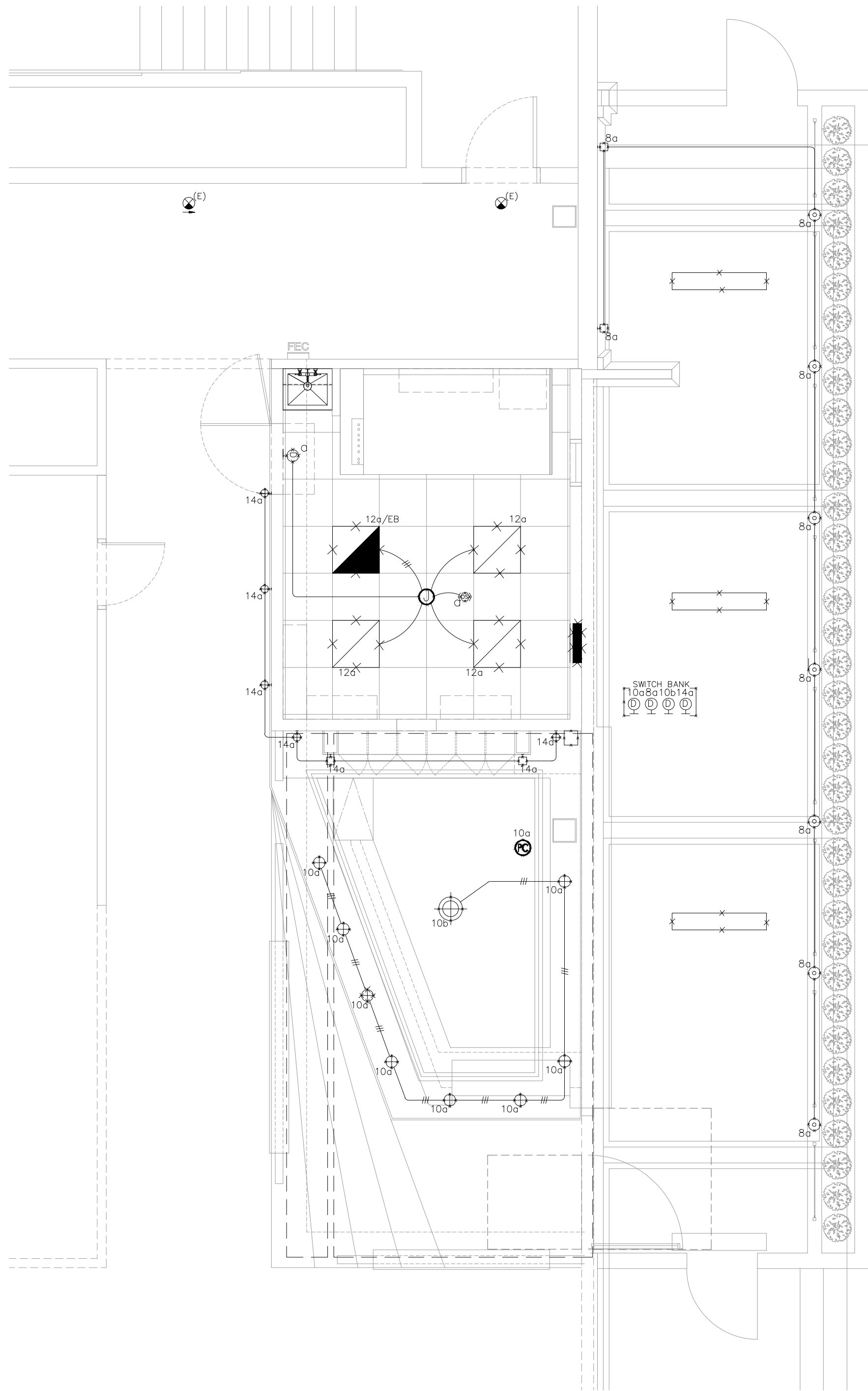
DISTRIBUTION AND PANELBOARDS

1. PANELBOARDS SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT AT THE TERMINALS.
2. PANELBOARDS SHALL BE LABELED WITH PHENOLIC NAMEPLATES INSCRIBED AS INDICATED ON THE DRAWINGS. PROVIDE LABELS AFFIXED TO PANELBOARDS AS REQUIRED BY NFPA 70E.
3. PANELBOARDS SHALL BE ENCLOSED DEAD FRONT SAFETY TYPE WITH FEATURES AND RATINGS AS SCHEDULED ON THE DRAWINGS.
4. MOLDED CASE CIRCUIT BREAKERS SHALL BE AS SCHEDULED ON THE DRAWINGS AND SPECIFIED IN THIS DIVISION.
5. ALL BUS BARS SHALL BE RECTANGULAR TIN PLATED ALUMINUM.
6. SPACE, WHERE SHOWN IN PANEL SCHEDULES, DESIGNATES SPACE FOR FUTURE PROTECTIVE DEVICES AND SHALL INCLUDE BUS AND SUPPORT.
7. INSTALL CABINETS SO THAT CENTER OF THE TOP BREAKER DOES NOT EXCEED 6'-6" ABOVE THE FINISHED FLOOR.
8. ENTRIES ON DIRECTORY CARDS SHALL BE TYPED, COMPLETE AND ACCURATE.
9. ALL BOLTED CONNECTIONS SHALL BE TORQUED IN ACCORDANCE WITH MANUFACTURER'S STANDARDS.
10. ELECTRICAL CONTRACTOR SHALL ARRANGE CIRCUITS AS NEAR AS POSSIBLE TO CIRCUIT NUMBERS ON THE DRAWINGS. AT COMPLETION OF JOB, ELECTRICAL CONTRACTOR SHALL TAKE CURRENT READING CHECKS OF RESPECTIVE PHASES. A MINIMUM OF CIRCUIT CONNECTIONS SHALL BE REARRANGED TO BALANCE, AS CLOSELY AS POSSIBLE, THE LOAD IN THE PANEL.
11. ALL BREAKERS SHALL BE BOLT-ON TYPE.
12. MANUFACTURER SHALL BE SQUARE D AS THE PREFERRED SWITCHGEAR.

LIGHTING FIXTURES

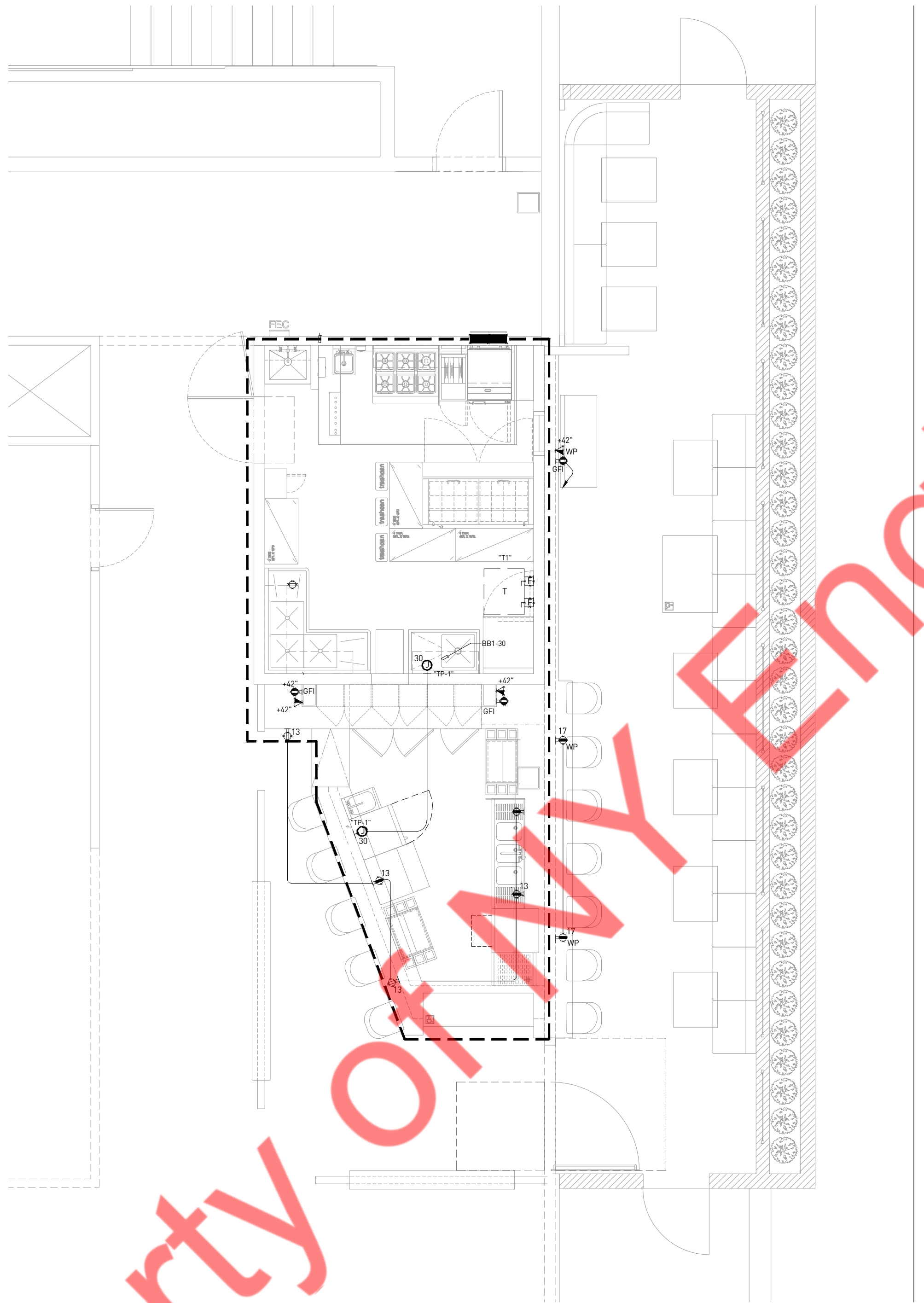
1. NEW LIGHTING FIXTURES SHALL BE AS LISTED IN THE LIGHTING FIXTURE SCHEDULE.
2. ALL LIGHTING FIXTURES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE, INCLUDING LAMPS. LAMPS SHALL BE OF SAME MANUFACTURER FOR ALL TYPES.
3. ALL FIXTURES SHALL BEAR THE UNDERWRITER'S LABORATORIES LABEL AND SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
4. BALLASTS FOR LINEAR FLUORESCENT LAMPS SHALL BE AS LISTED IN THE LIGHTING FIXTURE SCHEDULE.
5. HIGH INTENSITY DISCHARGE BALLASTS SHALL BE CONSTANT WATTAGE TYPE.
6. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY SUPPORT MEDIA FOR ALL LIGHTING FIXTURES INCLUDING STRUCTURAL STEEL, ANGLE, RODS, ETC. IN GENERAL, FLUORESCENT AND HIGH INTENSITY DISCHARGE FIXTURES SHALL BE SUPPORTED IN A MANNER ACCEPTABLE TO THE LOCAL INSPECTION AUTHORITIES. ALL FIXTURES SHALL BE FIRMLY MOUNTED TO THE CEILING BY STEEL BEAMS OR JOISTS.
 - A. PROVIDE ALL NECESSARY BACKING, BLOCKING AND SUPPORTS FOR WALL MOUNTED FIXTURES.
 - B. FIXTURES SHALL NOT BE SUPPORTED FROM ROOF DECK.
7. ALL FIXTURES SHALL BE U.L. LISTED AND APPROVED FOR THE PURPOSE INTENDED.
8. RECESSED FIXTURES IN FIRE RATED CEILING OR SUPPLY AIR PLENUMS SHALL BE APPROVED FOR THE FIRE RATING OF THE CEILING. PROVIDE AIR-TIGHT GASKETS TO SEAL AROUND OPENINGS.
9. ALL ADJUSTABLE FIXTURES SHALL BE AIMED AND ADJUSTED DURING EVENING HOURS TO THE SATISFACTION OF THE ARCHITECT.

△ ISSUANCE NAME	DATE
01 CITY COMMENTS	10-27-25
02 CITY COMMENTS	11-26-25



ELECTRICAL LIGHTING DEMOLITION PLAN 1

1/4" = 1'-0"



ELECTRICAL POWER DEMOLITION PLAN 2

1/4" = 1'-0"

LEGEND EXPLANATION:

LEGEND	EXPLANATION
	DEMOLISHED

GENERAL NOTES:

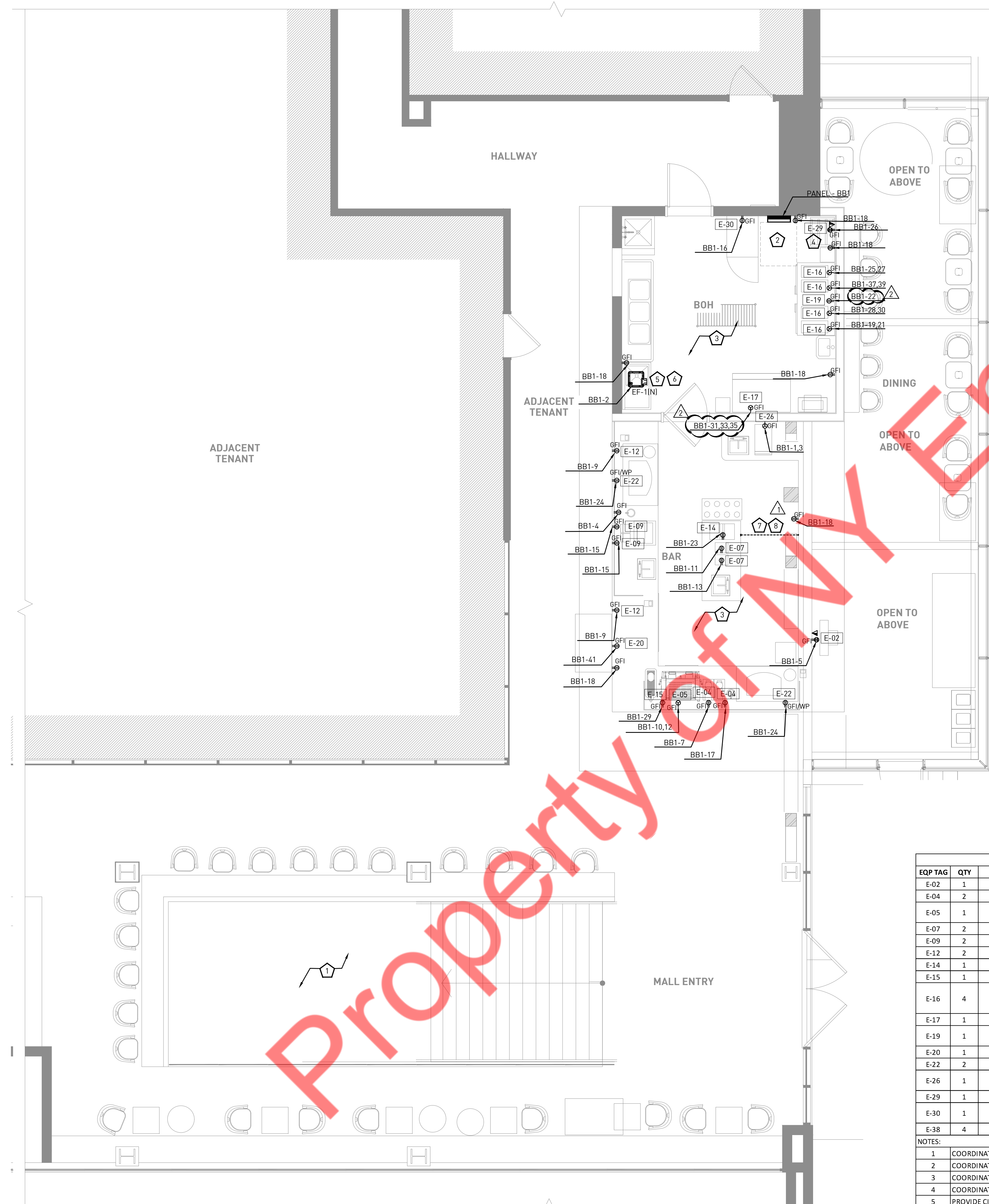
1. IN EVERY INSTANCE OF DEMOLITION AND/OR REMODELING, THE ELECTRICAL CONTRACTOR SHALL FIGURE OUT A COMPLETE JOB AS NONE OTHER SHALL BE ACCEPTED.
2. THE DRAWINGS ARE TO BE USED ONLY AS A GUIDELINE FOR DEMOLITION. THE ELECTRICAL CONTRACTOR MUST VISIT THE SITE BEFORE BIDDING TO VERIFY ALL WORK REQUIRED FOR THE COMPLETE JOB AND INCLUDE THE COST OF SUCH JOB IN THE BID.
3. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN EXISTING SERVICES TO & IN THE EXISTING AREA AS REQUIRED.
4. IF NECESSARY, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES IN THE EXISTING AREAS.
5. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT & REMOVE ELECTRIC SERVICE TO ALL MECHANICAL EQUIPMENT BEING REMOVED AS A RESULT OF THE REMODELING.
6. ELECTRICAL EQUIPMENT & DEVICES SHALL BE REMOVED COMPLETELY INCLUDING CONDUIT & WIRE.
7. FLUSH-MOUNTED WALL OUTLETS SHALL BE BLANKED OFF WITH A COVER PLATE. THE COVER PLATE COLOR SHALL BE SELECTED BY THE ARCHITECT.
8. ANY EXISTING CONDUIT, WIRING, AND/OR ELECTRICAL & MECHANICAL DEVICES BEING DISTURBED BY THE WORK SHALL BE REWORKED BY THIS CONTRACTOR AND REQUIRED TO RETURN TO THEIR FORMER EXISTING OPERATING CONDITION.
9. ANY CIRCUITS FEEDING THROUGH DEVICES OR EQUIPMENT BEING RELOCATED, REWORKED, OR ABANDONED & SERVING OTHER ELECTRICAL DEVICES, AND/OR EQUIPMENT SHALL BE MAINTAINED BY PROVIDING J-BOXES OR OTHER ACCEPTABLE METHODS AS REQUIRED.
10. ALL WALLS, CEILINGS, FLOORS, ETC., BEING DISTURBED BY THE WORK, SHALL BE RETURNED TO FINISHED CONDITIONS TO MATCH EXISTING BY THE ELECTRICAL CONTRACTOR, & HE SHALL DO HIS CUTTING & PATCHING AS NECESSARY UNDER HIS CONTRACT.
11. EXISTING MATERIALS SHALL BE TURNED OVER TO THE OWNER. IF NOT REQUIRED BY THE OWNER, THE ELECTRICAL CONTRACTOR SHALL REMOVE THESE MATERIALS FROM THE PREMISES.
12. ALL CONDUIT AND CABLING SHALL BE PROPERLY SUPPORTED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AND/OR REWORK EXISTING CONDUIT AND/OR CABLING THAT IS NOT IN COMPLIANCE WITH THIS REQUIREMENT.
13. CONTRACTOR SHALL FIELD VERIFY SLAB ON GRADE FLOOR CONSTRUCTION TYPE BEFORE CUTTING. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR CUT A STRUCTURAL FLOOR SLAB THICKER THAN FOUR (4") INCHES WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD. NOTIFY THE ENGINEER OF THE RECORD OF ANY SLAB THICKNESS GREATER THAN FOUR (4") INCHES BEFORE PROCEEDING WITH ANY SAW CUTTING.









CHAGEE
SOUTH COAST PLAZA

ISSUANCE NAME	DATE
01 CITY COMMENTS	10-27-25
02 CITY COMMENTS	11-26-25

ELECTRICAL
DEMOLITION
PLAN


ED1.00



LEGEND EXPLANATION:			
LEGEND	EXPLANATION	LEGEND	EXPLANATION
	20A DUPLEX RECEPTACLE		ELECTRICAL PANEL
	DATA TELEPHONE OUTLET		RESERVED POWER SUPPLY (JUNCTION BOX)
	DISCONNECT SWITCH		DATA OUTLET
	20A QUAD RECEPTACLE		SPECIAL RECEPTACLE RATING AS NOTED
GFI	GROUND FAULT CIRCUIT INTERRUPTER	WP	WATER PROOF

POWER PLAN GENERAL NOTE:

- A. POWER AND LOCATION OF ALL THE MECHANICAL AND PLUMBING UNITS SHALL BE COORDINATED WITH THE RESPECTIVE CONTACTORS BEFORE BID.
- B. GFI MARKED ON THE PLAN INDICATES THAT THE CIRCUIT SHALL BE GFI PROTECTED. E.C. SHALL PROVIDE A GFI RECEPTACLE DISCONNECT IN THE READILY ACCESSIBLE LOCATION. PROVIDE A GFI BREAKER IN THE PANEL IF EITHER THE RECEPTACLE IS NOT AVAILABLE OR NOT ACCESSIBLE WHEN INSTALLED IN THE DESIRED LOCATION.
- C. COORDINATE THE EXACT LOCATION AND ELECTRICAL CONNECTION REQUIREMENTS OF THE DUCT SMOKE DETECTORS, FIRE DAMPERS, FIBER SMOKE DAMPERS, MOTORIZED DAMPERS, AND THERMOSTATS IN THE FIELD WITH THE MECHANICAL DRAWING. PROVIDE WIRING AS REQUIRED.
- D. POWER AND LOCATION OF ALL THE MECHANICAL AND PLUMBING UNITS SHALL BE COORDINATED WITH THE RESPECTIVE CONTACTORS BEFORE BID.
- E. ELECTRICAL OUTLETS PLACED ON BOTH SIDES OF THE WALL PARTITION TO BE LOCATED OFFSET OF EACH OTHER.
- F. THE DISCONNECT SWITCHES FOR THE BRANCH CIRCUIT SHOWN ON THE PLAN SHALL BE RATED EQUAL TO OR HIGHER THAN THE BREAKER RATING. REFER TO BREAKER RATING IN THE PANEL SCHEDULE AND PROVIDE DISCONNECT AS NEEDED.
- G. ALL 125V-250V RECEPTACLES SUPPLIED BY SINGLE-PHASE CIRCUITS RATED 150V OR LESS TO GROUND, 50A OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150V OR LESS TO GROUND, 100A OR LESS INSTALLED IN THE LOCATIONS SPECIFIED IN NEC 210.8(B)(1) THROUGH (12) SHALL HAVE GFCI PROTECTION.

POWER PLAN KEY NOTE:		
1.		EXISTING ELECTRICAL EQUIPMENT SHALL REMAIN CONNECTED TO THE EXISTING CIRCUIT. E.C. SHALL REARRANGE THE CIRCUITS ON THE SITE IF REQUIRED. PROVIDE NEW CIRCUIT IF REQUIRED.
2.		E.C. SHALL COORDINATE WITH THE ARCHITECT/OWNER FOR THE EXACT LOCATION OF THE METER, DISCONNECT, AND PANELS IN THE FIELD. ALSO, ENSURE CLEAR WORKING AND DEDICATED SPACE AS PER NEC 110.26.
3.		E.C. SHALL COORDINATE WITH THE ARCHITECT/OWNER FOR THE EXACT LOCATION AND MOUNTING HEIGHT OF THE ELECTRICAL OUTLET IN THE FIELD. MAKE PROVISION ACCORDINGLY.
4.		PLYWOOD-BACKED OUTLETS FOR DATA AND TELEPHONE SERVICES. COORDINATE WITH THE ARCHITECT/OWNER/SERVICE PROVIDER FOR OTHER REQUIREMENTS. PROVIDE CONDUIT AND CONNECTION AS REQUIRED.
5.		E.C. SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR THE EXACT LOCATION AND ELECTRICAL CONNECTION REQUIREMENT OF THE HVAC UNIT IN THE FIELD. PROVIDE CIRCUIT AND CONTROLS AS REQUIRED.
6.		INTERLOCK EF-1(IN) WITH RTU-1(IN).
7.		E.C. TO PROVIDE UNDERGROUND CONDUIT PATHWAY FROM WALL TO ISLAND FOR ELECTRICAL EQUIPMENT. COORDINATE ROUTING AND SLEEVE LOCATIONS WITH ARCHITECT/OWNER.
8.		E.C. TO COORDINATE WITH LANDLORD FOR THE ROUTING OF CONDUITS UNDERGROUND FOR THE ISLAND ELECTRICAL EQUIPMENT.

CONDUIT ROUTING NOTE:

1. E.C. TO ENSURE CONDUITS OF ALL TYPES SHALL BE INSTALLED WITHIN WALLS AS PRACTICABLE. WHERE THIS IS NOT POSSIBLE, MULTIPLE RUNS OR CLUSTERS OF PIPING SHOULD BE FURRED IN, ENCASED IN AN APPROVED RUNWAY OR OTHER APPROVED, SEALED ENCLOSURE. ALL EXPOSED FLEX CONDUIT IS TO BE "SEAL TIGHT" OR EQUIVALENT.

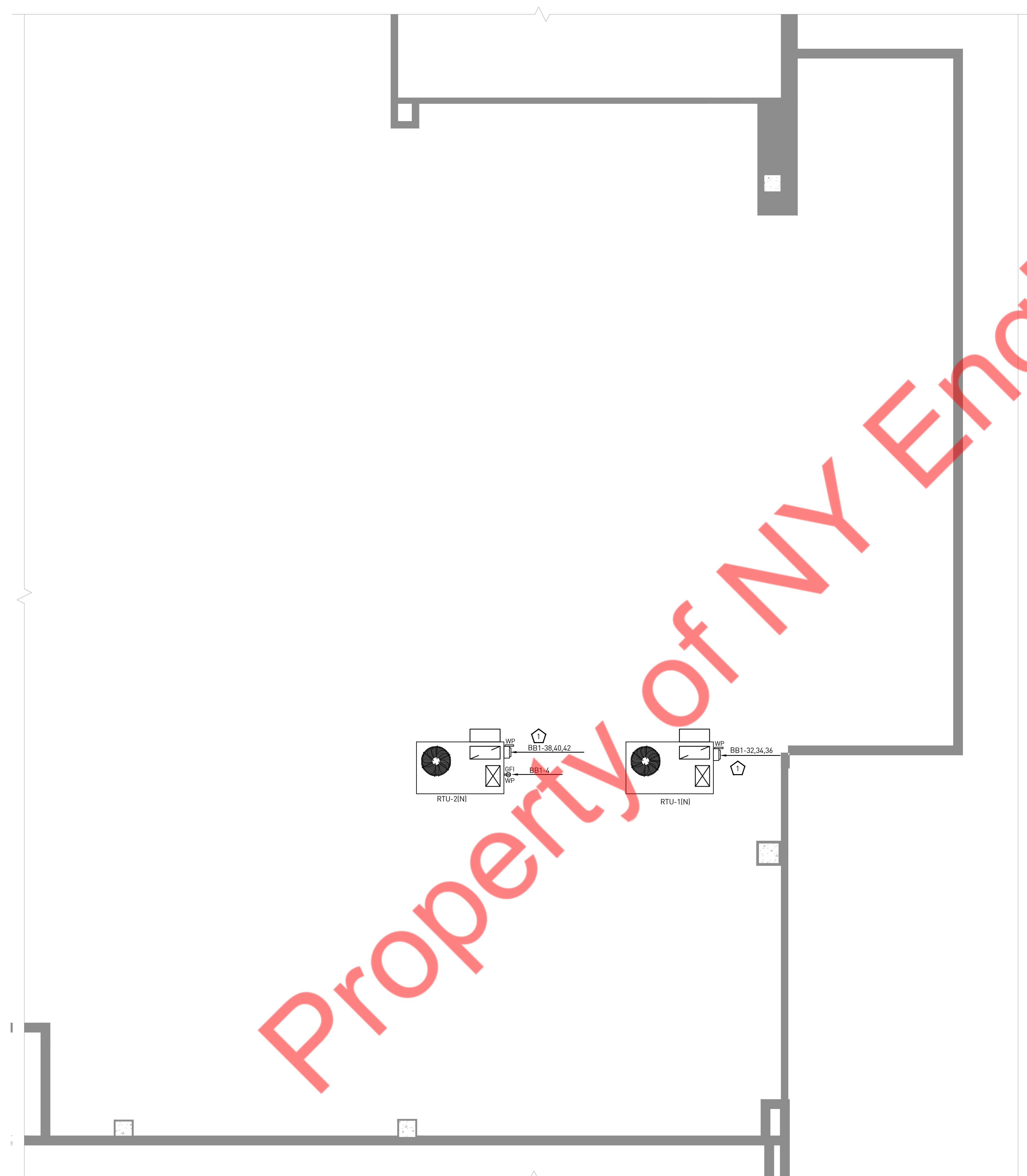
ELECTRICAL EQUIPMENT SCHEDULE										
EQP TAG	QTY	EQUIPMENT DESCRIPTION	MAKE	MODEL	LOAD IN VA	VOLTS	PHASE	AMPS	CONNECTION	NOTES
E-02	1	POS	MENUSIFU	MENUSIFU	-	-	-	-	-	-
E-04	2	COFFEE GRINDER	MAHLKONIG	CUSTOM EK43 S BLK	1300	120	1	10.83	-	3,4,5
E-05	1	TEA EXTRACTION MACHINE	CONTI MONACO	MC ULT ULN	6000	230	1	-	-	3,4,5,6
E-07	2	BLENDER	VITAMIX	36019 ABAB	1800	120	1	15	-	3
E-09	2	DRINK MIXER	WARING	WDM120TX	375	120	1	1.15	NEMA 5-15P	-
E-12	2	LABELLING MACHINE	STAR	TSP143V1 SK	190	115	1	1.6	-	1,2,3
E-14	1	MILK STEAMER FROTHER	CONTI MONACO	STA1800	2000	110	1	20	NEMA 5-20P	-
E-15	1	UNDERCOUNTER REFRIGERATOR	BEVEAGE AIR	UCR27AHC 23	240	115	1	2	NEMA 5-15P	-
E-16	4	TEA BREWING MACHINE	JIANGSU YUSHENG EQUIPMENT TECHNOLOGY CO	HZ-62CF-335WG	3300	220	1	16	-	3
E-17	1	ICE MAKER MACHINE	HOSHIZAKI	KM-1301SAJ3	3422.5	208	3	9.5	-	1,2,3
E-19	1	REFRIGERATED WORK TOP	BEVERAGE AIR	WTR60AHC-FIP	345	115	1	3	NEMA 5-15P	-
E-20	1	UNDERCOUNTER REFRIGERATOR	BEVERAGE AIR	UCR48AHC 23	253	115	1	2.2	NEMA 5-15P	-
E-22	2	SUGAR & MILK MACHINE	LANGTUO	4.0H AUTOMATIC TEA BEVERAGE	680	115	1	5.66	-	1-5
E-26	1	RAPID COOK OVEN	MERRYCHEF USA	CONNEX 12 POWER CARBON BLACK	6000	208	1	28.84	NEMA 16-30P	1,2,3
E-29	1	IT RACK	-	-	-	-	-	-	-	1-5
E-30	1	REACH-IN REFRIGERATOR	BEVERAGE AIR	HR1HC-1S	310.5	115	1	2.7	NEMA 5-15P	-
E-38	4	TV	-	-	-	-	-	-	-	-
NOTES:										
1	COORDINATE EXACT MAKE/MODEL NUMBER WITH THE OWNER/ARCHITECT.									
2	COORDINATE EXACT POWER REQUIREMENT WITH THE EQUIPMENT VENDOR.									
3	COORDINATE EXACT CONNECTION TYPE WITH THE VENDOR PRIOR TO ROUGH IN.									
4	COORDINATE MOUNTING HEIGHT OF THE RECEPTACLE OR DISCONNECTION WITH THE ARCHITECT/OWNER.									
5	PROVIDE CIRCUIT BREAKER, WIRING, JUNCTION BOX, RECEPTACLES, DISCONNECTS AS REQUIRED.									
6	SELECT EQUIPMENT RATED FOR SERVICE VOLTAGE ELSE PROVIDE THE ADAPTER/TRANSFORMER AS NEEDED.									



CHAGEE
SOUTH COAST PLAZA

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01 CITY COMMENTS	10-27-25
02 CITY COMMENTS	11-26-25


ELECTRICAL POWER FLOOR PLAN

E1.00



LEGEND EXPLANATION:			
LEGEND	EXPLANATION	LEGEND	EXPLANATION
WP  GFI	20A DUPLEX RECEPTACLE WEATHER PROOF, GFI RATED		NON-FUSED DISCONNECT

- POWER ROOF PLAN ELECTRICAL NOTE.**
- A. ALL THE ELECTRICAL ELEMENTS, WIZ., CONDUITS, WIRING, AND DISCONNECT SWITCHES, SHALL BE RATED FOR EXTERIOR USE.
- B. THE DISCONNECT SWITCHES FOR THE BRANCH CIRCUIT SHOWN ON THE PLAN SHALL BE RATED EQUAL TO OR HIGHER THAN THE BREAKER RATING. REFER TO BREAKER RATING IN THE PANEL SCHEDULE AND PROVIDE DISCONNECT AS NEEDED.
- C. GFI MARKED ON THE PLAN INDICATES THAT THE CIRCUIT SHALL BE GFI PROTECTED. E.C. SHALL PROVIDE A GFI BREAKER IN THE PANEL FOR THE INDICATED CIRCUIT IF EITHER THE RECEPTACLE IS NOT AVAILABLE OR NOT ACCESSIBLE.
- D. A 125-VOLT, SINGLE-PHASE, 15- OR 20-AMPERE-RATED RECEPTACLE OUTLET SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION WITHIN 7.5 M (25 FT) OF THE EQUIPMENT AS SPECIFIED IN 210.63(A) AND (B) AS PER NEC 210.63.

- KEY NOTE:** 
1. E.C. SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR THE EXACT LOCATION AND ELECTRICAL CONNECTION REQUIREMENT OF THE HVAC UNIT IN THE FIELD. PROVIDE CIRCUIT AND CONTROLS AS REQUIRED.

CHAGEE
SOUTH COAST PLAZA

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01 CITY COMMENTS	10-27-25
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ELECTRICAL POWER ROOF PLAN

E1.01

LC - LIGHTING CONTACTOR
TC - TIME CLOCK

LIGHTING PLAN GENERAL NOTES:

- A. ALL WIRES FOR LIGHTING SHALL BE COPPER, UNLESS NOTED OTHERWISE, WIRE SIZE SHALL BE CU, 2#12,1#12G,3/4"C.
- B. AT FIRE RATED WALL AREA, LIGHTING SWITCH SHALL BE SURFACE MOUNTED WITH EXPOSED CONDUIT. IF FIRE WALL PENETRATION IS NEEDED, UL LISTED SEALING OF CONDUIT SHALL BE APPLIED.
- C. E.C. SHALL COORDINATE WITH THE EQUIPMENT VENDOR/ARCHITECT/OWNER FOR EXACT LOCATION, MOUNTING HEIGHT AND COLOR OF THE SWITCHES AND SENSORS PRIOR TO BID.
- D. LIGHT FIXTURE MARKED AS "EM" OR E, INDICATES THE EMERGENCY LIGHT FIXTURE. THE LIGHT FIXTURE WITH THE BATTERY BACKUP SHALL BE PROVIDED AND E.C. SHALL CONNECT THE "EM" FIXTURE TO THE LIGHTING CIRCUIT AHEAD OF SWITCHING.
- E. OCCUPANCY SENSORS SHALL AUTOMATICALLY TURN OFF LIGHTS WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE AS PER TITLE 24, PART 6, SECTION 131.1(C)(1).
- F. OVERRIDE SWITCH SHALL BE AS PER TITLE 24, SECTION 130.1(C).
- G. E.C. SHALL REARRANGE (IF REQUIRED) THE EMERGENCY FIXTURES TO PROVIDE INITIAL ILLUMINATION THAT IS NOT LESS THAN AN AVERAGE OF 1 FOOTCANDLE (11 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOTCANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FOOTCANDLE (6 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF 0.06 FOOTCANDLE (0.6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40 TO 1 SHALL NOT BE EXCEEDED.

LIGHTING PLAN KEY NOTE:

1. E.C. SHALL COORDINATE THE EXACT LOCATION OF THE SWITCH BANK IN THE FIELD. ALL THE SWITCHES TAGGED AS (\$ SB) IN THE PLAN SHALL BE INSTALLED IN THE SWITCH BANK. REFER TO THE LIGHTING PLAN FOR THE NUMBER OF THE SWITCHES REQUIRED. REFER TO THE LIGHTING CONTACTOR CONNECTION DETAIL FOR MORE INFORMATION.
2. THE LIGHTING FIXTURES IN THE DAYLIGHT ZONE SHALL BE CONTROLLED THROUGH THE DAYLIGHT SENSOR. THE DAYLIGHT SENSOR SHALL MATCH THE CONTROL FUNCTION REQUIREMENT OF THE IECC.
3. INSTALL A JUNCTION BOX AND A SWITCH FOR THE SIGNAGE IN AN ACCESSIBLE LOCATION. CONNECT THE SIGNAGE TO THE INDICATED CIRCUIT THROUGH THE LIGHTING CONTACTOR (LC). COORDINATE WITH THE OWNER OR LANDLORD TO DETERMINE THE EXACT LOCATION AND SCHEDULE FOR THE TIME CLOCK.
4. COORDINATE LOCATION OF THE PHOTO CELL IN FIELD.
5. CEILING MOUNTED OCCUPANCY SENSORS, E.C. SHALL COORDINATE WITH THE VENDOR FOR EXACT REQUIREMENT OF THE OCCUPANCY SENSORS IN THE FIELD. PROVIDE NECESSARY WIRING AND OTHER ELECTRICAL CONNECTIONS AS REQUIRED.
6. CONNECT ALL EMERGENCY, EXIT SIGN TO THE NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS PER STATE AND LOCAL CODES. EXIT SIGNS SHALL NOT EXCEED 5 WATTS PER FACE.
7. E.C. SHALL PROVIDE TIME CLOCK, CONTRACTORS, MANUAL OVERRIDE SWITCH FOR THE LIGHTING & SIGNAGE CONTROL COORDINATE EXACT LOCATION & MOUNTING WITH ARCHITECT / OWNER. PROVIDE CONNECTION AS REQUIRED FOR PROPER WORKING. REFER TO THE "LIGHTING CONTACTOR DETAIL" FOR MORE INFORMATION.
8. EXISTING LIGHT FIXTURES SHALL REMAIN CONNECTED TO THE EXISTING CIRCUIT. E.C. SHALL REARRANGE THE CIRCUITS ON THE SITE IF REQUIRED. PROVIDE NEW CIRCUIT IF REQUIRED.
9. THE LIGHTING FIXTURES IN THE DAYLIGHT ZONE SHALL BE CONTROLLED THROUGH THE DAYLIGHT SENSOR. THE DAYLIGHT SENSOR SHALL MATCH THE CONTROL FUNCTION REQUIREMENT OF THE IECC.
10. PROVIDE 2" CONDUIT FOR LOW VOLTAGE FROM IT RACK TO EACH MENU TV LOCATION TO ACCOMMODATE HDMI CABLES. PROVIDE (1) DATA OUTLET AND (1) POWER OUTLET FOR EACH MENU TV. COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS AND AV/IT VENDOR

ELECTRICAL LIGHTING FLOOR PLAN | 1

1/4" = 1'-0"

ELECTRICAL LIGHTING FLOOR PLAN | 2

1/4" = 1'-0"

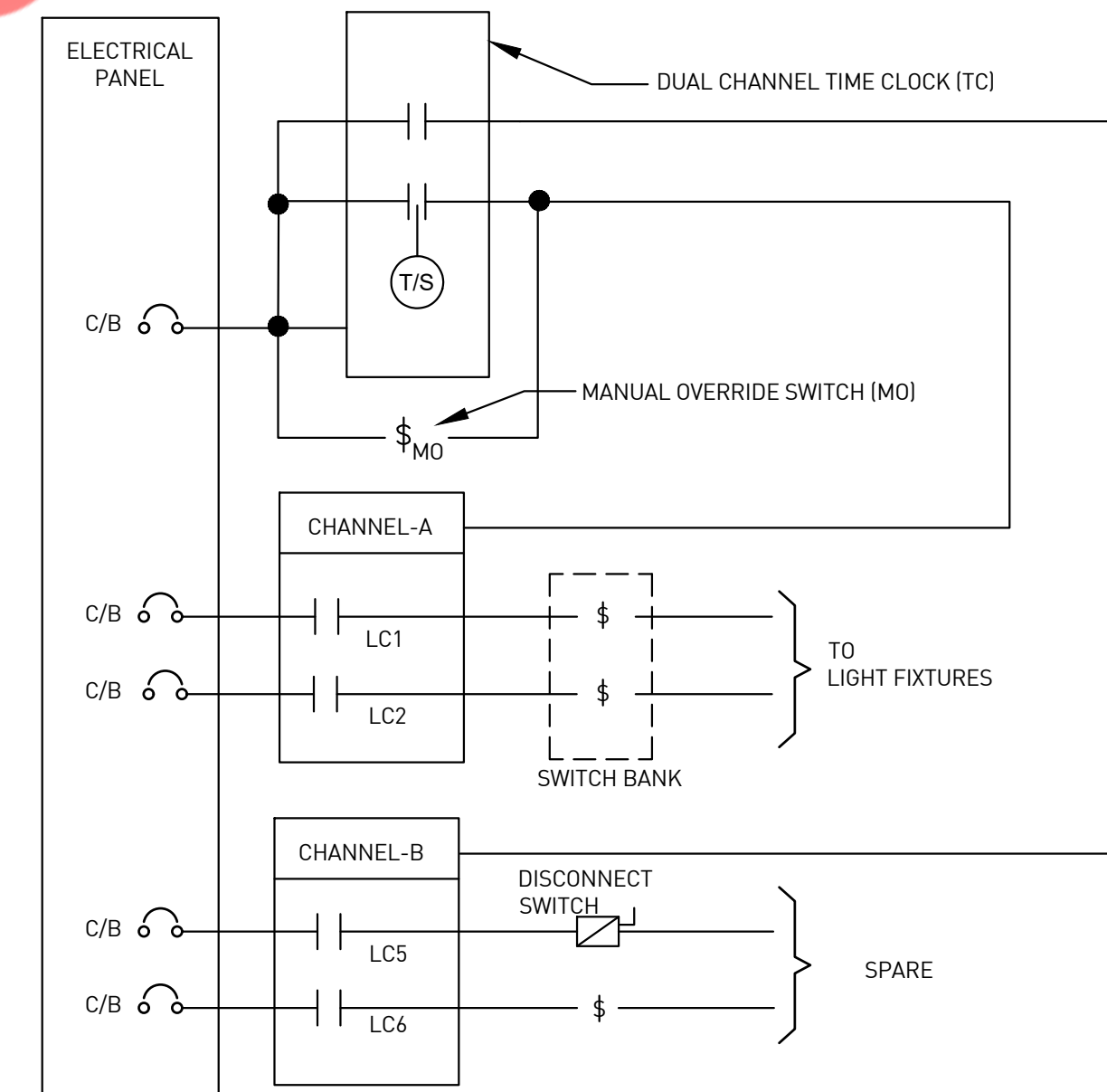
LIGHT FIXTURE SCHEDULE GENERAL NOTES:

- A. ALL NEW LIGHTING FIXTURES SHOWN ON THE LIGHTING FIXTURE SCHEDULE ARE SUBJECT TO THE ARCHITECT'S APPROVAL. E.C. SHALL COORDINATE THE MAKE, MODEL, FINISHES, AND OTHER CRITICAL PARAMETERS WITH THE ARCHITECT BEFORE PURCHASING.
- B. THE ADDITIONAL ACCESSORIES (HOLDERS, TRACKS, ADAPTERS, DRIVERS, AND CURRENT LIMITERS) REQUIRED FOR THE PROPER WORKING OF THE LIGHTING FIXTURES SHALL BE PURCHASED SEPARATELY IF NOT PROVIDED ALONG WITH THE FIXTURES.
- C. ALL LIGHTING FIXTURES SHALL BE LED-TYPE OPERABLE AT 120V UNLESS OTHERWISE NOTED.
- D. ALL EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS SHALL HAVE A MINIMUM OF 90 MINUTES OF BATTERY BACKUP OR AS REQUIRED BY AHJ.
- E. WATTS PER FACE FOR EXIT SIGNS SHALL NOT EXCEED 5 WATTS.
- F. FIXTURES LOCATED IN SPECIFIC AREAS (WET OR DAMP LOCATIONS, VAPOR EXPOSED, COLD STORAGE, AND BUILDING EXTERIOR) SHALL BE RATED FOR THAT AREA.

LEGEND EXPLANATION: LEGEND EXPLANATION:

LEGEND	EXPLANATION	REMARKS
\$	SINGLE POLE SWITCH	H:55.11"
\$ MO	MANUAL OVERRIDE SWITCH	H:55.11"
\$ T	TIMER SWITCH	H:55.11"
J	RESERVED POWER SUPPLY (JUNCTION BOX)	
DS	DAYLIGHT SENSOR	CEILING MOUNTED
OS	OCCUPANCY SENSOR	CEILING MOUNTED
20A	20A DUPLEX RECEPTACLE	CEILING MOUNTED
DATA	DATA OUTLET	CEILING MOUNTED

THE DIAGRAM BELOW INDICATES THE GENERAL ARRANGEMENT OF THE LIGHTING CONTACTORS. SEE ELECTRICAL LIGHTING PLAN FOR CIRCUIT AND CONTROL DETAILS. CONTRACTOR SHALL SELECT THE QUANTITY OF THE CONTACTORS AS REQUIRED.



LIGHTING CONTACTOR DETAILS (TYPICAL)

- NOTE: 1. GC'S ELECTRICIAN TO INSTALL OWNER'S LIGHTING CONTROL SYSTEM AND STARTUP.
2. LIGHTING CONTROLS WILL BE PROVIDED BY LOW VOLTAGE VENDOR.

LIGHT FIXTURE SCHEDULE GENERAL NOTES:

- A. ALL NEW LIGHTING FIXTURES SHOWN ON THE LIGHTING FIXTURE SCHEDULE ARE SUBJECT TO THE ARCHITECT'S APPROVAL. E.C. SHALL COORDINATE THE MAKE, MODEL, FINISHES, AND OTHER CRITICAL PARAMETERS WITH THE ARCHITECT BEFORE PURCHASING.
- B. THE ADDITIONAL ACCESSORIES (HOLDERS, TRACKS, ADAPTERS, DRIVERS, AND CURRENT LIMITERS) REQUIRED FOR THE PROPER WORKING OF THE LIGHTING FIXTURES SHALL BE PURCHASED SEPARATELY IF NOT PROVIDED ALONG WITH THE FIXTURES.
- C. ALL LIGHTING FIXTURES SHALL BE LED-TYPE OPERABLE AT 120V UNLESS OTHERWISE NOTED.
- D. ALL EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS SHALL HAVE A MINIMUM OF 90 MINUTES OF BATTERY BACKUP OR AS REQUIRED BY AHJ.
- E. WATTS PER FACE FOR EXIT SIGNS SHALL NOT EXCEED 5 WATTS.
- F. FIXTURES LOCATED IN SPECIFIC AREAS (WET OR DAMP LOCATIONS, VAPOR EXPOSED, COLD STORAGE, AND BUILDING EXTERIOR) SHALL BE RATED FOR THAT AREA.

LIGHTING FIXTURE SCHEDULE

TYPE/ TAG	QTY.	DESCRIPTION	Manufacturer	PART NUMBER	LAMPING							NOTES
					COLOR TEMP	VOLT	WATT	LUMENS	APERTURE SIZE	CRI	CONTROL	
LED1	4	LINEAR LED		SIMILAR TO EXISTING	-	-	-	-	4"	-	0-10V	1
L02	3	RECESSED DOWNLIGHTS	ALPHABET	NU3-RA-SW-15LM-30K-90-35D-NA-CL-WT-WT-NC-UNV-DIM10	3000K	UNV 120-277	13	1240	3"	90	0-10V	
L02E	1	RECESSED DOWNLIGHTS	ALPHABET	NU3-RA-SW-15LM-30K-90-35D-NA-CL-WT-WT-NC-UNV-DIM10-EM7	3000K	UNV 120-277	13	1240	3"	90	0-10V	
L03	14	RECESSED DOWNLIGHTS	ALPHABET	NU3-RD-SW-15LM-30K-90-40D-CL-WH-WH-NC-UNV-DIM10	3000K	UNV 120-277	13	1240	3"	90	0-10V	
L03 EM	3	RECESSED DOWNLIGHTS	ALPHABET	NU3-RD-SW-15LM-30K-90-40D-CL-WH-WH-NC-UNV-DIM10-EM7	3000K	UNV 120-277	13	1240	3"	90	0-10V	
L05	1	2X2 RECESSED LAYIN FLAT PANEL TROFFER	RAB	T34FA-2X2	3000K	UNV 120-277	30	3300	2X2	-	0-10V	
L05E	1	2X2 RECESSED LAYIN FLAT PANEL TROFFER	RAB	T34FA-2X2/E	3000K	UNV 120-277	30	3300	2X2	-	0-10V	
L06	100'	LED TAPE LIGHTING	CORE	LSM -40K-100'-24V	4000K	24V	-	-	-	-	-	
L07	6	RECESSED DOWNLIGHTS	ALPHABET	NU3-RD-SW-40LM-30K-90-40D-CL-WH-WH-NC-UNV-DIM10	3000K	120V	40	3230LM	3"	90	0-10V	
L07 EM	3	RECESSED DOWNLIGHTS	ALPHABET	NU3-RD-SW-40LM-30K-90-40D-CL-WH-WH-NC-UNV-DIM10-EM7	3000K	120V	40	3230LM	3"	90	0-10V	
LR-3	2	SQUARE DOWNLIGHT	XAL	SASSO 100	3000K	-	17.9	1593LM	-	-	-	1

NOTES:

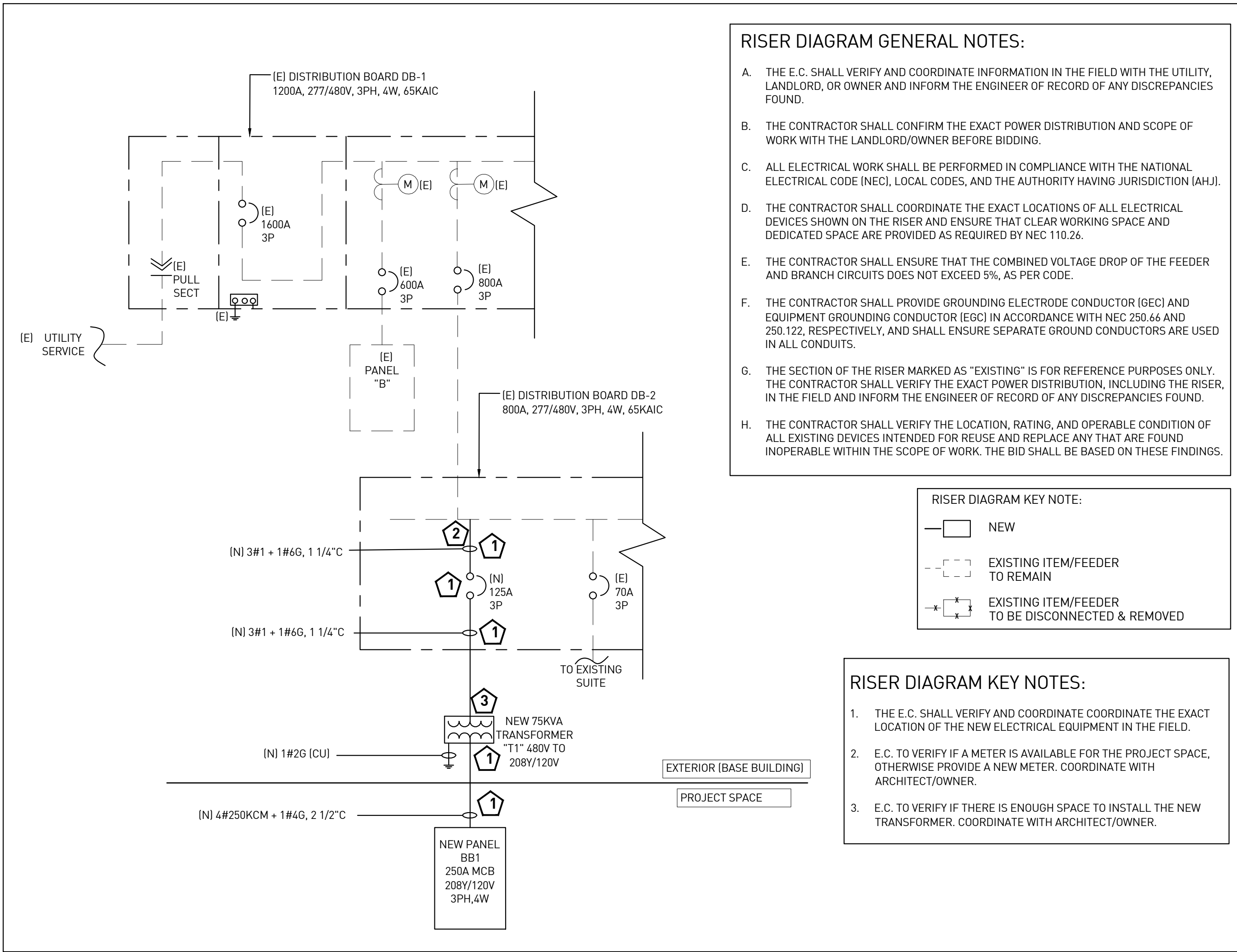
- 1 - COORDINATE EXACT MAKE/MODEL NUMBER WITH THE OWNER/ARCHITECT.

CHAGEE
SOUTH COAST PLAZA

ISSUANCE NAME	DATE
01 CITY COMMENTS	10-27-25
02 CITY COMMENTS	11-26-25

ELECTRICAL
LIGHTING
FLOOR PLAN

E2.00



- PANEL SCHEDULE GENERAL NOTES:**
- A. CONTRACTOR SHALL VERIFY BREAKER AND BRANCH CIRCUIT REQUIREMENTS FOR THE EQUIPMENT IN THE FIELD.
 - B. THE ELECTRICAL LOAD IS BALANCED WITHIN 10% FOR ALL 3 PHASES.
 - C. THE VOLTAGE DROP FOR THE BRANCH CIRCUIT SHALL NOT EXCEED 3% OR 5% IN COMBINATION WITH THE FEEDER CIRCUIT.
 - D. GFI MARKED ON THE PLAN INDICATES THAT THE CIRCUIT SHALL BE GFI PROTECTED. E.C. SHALL PROVIDE A GFCI BREAKER IN THE PANEL FOR THE INDICATED CIRCUIT IF EITHER THE RECEPTACLE IS NOT AVAILABLE OR NOT READILY ACCESSIBLE.
 - E. COORDINATE AVAILABLE FAULT CURRENT (AIC RATINGS) WITH UTILITY/LANDLORD/OWNER. CALCULATE THE EXACT AIC RATING OF EACH PANEL IN THE FIELD. AIC RATINGS SHALL BE WRITTEN ON EACH PANEL AS PER STANDARD.
 - F. PROVIDE BREAKER LOCKING DEVICES IN THE PANELS, WHERE EVER REQUIRED BY CODE. INCLUDING BUT NOT LIMITED TO EMERGENCY LIGHTING, FIRE ALARM CIRCUITS, AND HARD WIRED EQUIPMENT.
 - G. THE BREAKER FEEDING HVAC UNITS SHALL BE HACR TYPE.
 - H. THE CONTRACTOR SHALL MODIFY THE BREAKERS OF THE EXISTING PANEL (WHEREVER REQUIRED) TO BE IN LINE WITH THE PANEL SCHEDULE.
 - I. REPLACE THE EXISTING OR PROVIDE A NEW BREAKER IF THE EXISTING IS INOPERABLE.
 - J. ALL EXISTING CIRCUITS SHOWN ON THE EXISTING ELECTRICAL PANELS ARE FOR REFERENCE PURPOSE ONLY. E.C. TO FIELD VERIFY AND INFORM ENGINEER OF RECORD BEFORE BID.
 - K. THE CONTRACTOR IS TO PROVIDE A CIRCUIT DIRECTORY FOR EACH PANEL BOARD.

ELECTRICAL RISER DIAGRAM | 1

1/4" = 1'-0"

PANEL: BB1 (NEW)		-										MOUNTING: SURFACE				
208Y/120	VOLTS	PHASE		3		AIC RATING (in kA)		10		DEMAND LOAD		56.38	PANEL LOCATION: BOH			
250A	MCB	WIRE		4		-		-		DEMAND CURRENT		156.69	FED FROM: T1			
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD		LOAD TYPE	LOAD (KVA)	NOTES		PER PHASE (KVA)			NOTES	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
						A	B	C								
1	35/2P	E-26 RAPID COOK OVEN	E	3.00	RWC	3.20			RWC	0.20	O	MECH. MISC. LOAD, EF-1(N)	20/1P	2		
3			E	3.00			3.18	RWC	0.18	R	ROOF TOP RECEPTACLE	20/1P	4			
5	20/1P	E-02 POS	R	0.36	RWC			1.56	RWC	1.20	L	BUILDING SIGNAGE	20/1P	6		
7	20/1P	E-04 COFFEE GRINDER	E	1.30	RWC	2.02			RWC	0.72	R	E-38 TV RECEPTACLES	20/1P	8		
9	20/1P	E-12 LABELLING MACHINE (2)	E	0.38	RWC		3.38		RWC	3.00	E	E-05 TEA EXTRACTION MACHINE	20/2P	10		
11	20/1P	E-07 BLENDER	E	1.80	RWC			4.80	RWC	3.00	E			12		
13	20/1P	E-07 BLENDER	E	1.80	RWC	2.65			RWC	0.85	L	INTERIOR LIGHTS	20/1P	14		
15	20/1P	E-09 DRINK MIXER (2)	E	0.75	RWC		1.10		RWC	0.35	E	E-30 REACH-IN REFRIGERATOR	20/1P	16		
17	20/1P	E-04 COFFEE GRINDER	E	1.30	RWC			2.02	RWC	0.72	R	GENERAL RECEPTACLES	20/1P	18		
19	20/2P	E-16 TEA BREWING MACHINE	E	1.65	RWC	1.85			RWC	0.20	O	EX. WH-1 & BCP-1	20/1P	20		
21			E	1.65			2.00	RWC	0.35	E	E-19 REFRIGERATED WORK TOP	20/1P	22			
23	30/1P	E-14 MILK STEAMER FROTHER	E	2.00	RWC			3.36	RWC	1.36	E	E-22 SUGAR & MILK MACHINE (2)	20/1P	24		
25	20/2P	E-16 TEA BREWING MACHINE	E	1.65	RWC	2.01			RWC	0.36	R	E-29 IT RACK	20/1P	26		
27			E	1.65			3.30	RWC	1.65	E	E-16 TEA BREWING MACHINE	20/2P	28			
29	20/1P	E-15 UNDERCOUNTER REFRIGERATOR	E	0.24	RWC		1.89		RWC	1.65	E			30		
31	20/3P	E-17 ICE MAKER MACHINE	E	1.14	RWC	5.34				4.20	H			32		
33						5.34	RWC	4.20	H	RTU-1(N)	50/3P	34				
35						1.14		5.34		4.20	H		36			
37	20/2P	E-16 TEA BREWING MACHINE	E	1.65	RWC	5.85				4.20	H			38		
39			E	1.65			5.85		4.20	H	RTU-2(N)	50/3P	40			
41	20/1P		E-20 UNDERCOUNTER REFRIGERATOR	E		0.25	RWC			4.45		4.20	H			42
						22.92	24.14	23.42								

BRANCH CIRCUIT WIRING CHART	
15/1P	2#12 + 1#12G, 3/4" C
20/1P	2#12 + 1#12G, 3/4" C
20/2P	2#12 + 1#12G, 3/4" C
25/2P	2#10 + 1#10G, 3/4" C
30/2P	2#10 + 1#10G, 3/4" C
35/2P	2#8 + 1#10G, 3/4" C
40/2P	2#8 + 1#10G, 3/4" C
20/3P	3#12 + 1#12G, 3/4" C
25/3P	3#10 + 1#10G, 3/4" C
30/3P	3#10 + 1#10G, 3/4" C
35/3P	3#8 + 1#10G, 3/4" C
40/3P	3#8 + 1#10G, 3/4" C
45/3P	3#8 + 1#10G, 3/4" C
50/3P	3#8 + 1#10G, 3/4" C
125/3P	3#1 + 1#6G, 1 1/4" C

PANEL SCHEDULE ABBREVIATIONS AND NOTES	
L	LIGHTING
R	RECEPTACLE
H	HVAC
E	KITCHEN EQUIPMENT
M	LARGEST MOTOR
O	OTHER
N	NON COINCIDENT
X	LINKED CELL
*	SPLIT BREAKER
RWC	REFER TO THE WIRING CHART FOR WIRE SIZE
GFI	GROUND FAULT CIRCUIT INTERRUPTER
AFI	ARC FAULT CIRCUIT INTERRUPTER
NBEP	NEW BREAKER IN THE EXISTING PANEL
HACR	HEAT AIR CONDITIONING AND REFRIGERATION
PAN	PROVIDE ADDITIONAL WIRE FOR NEUTRAL
LO	LOCKOUT BREAKER
STB	SHUNT TRIP BREAKER
ETR	EXISTING TO REMAIN
SAE	SAME AS EXISTING
LC	WIRE THROUGH LIGHTING CONTACTOR
VIF	VERIFY IN FIELD

CHAGEE
SOUTH COAST PLAZA

ISSUANCE NAME	DATE
01 CITY COMMENTS	10-27-25
02 CITY COMMENTS	11-26-25

ELECTRICAL
RISER & PANEL
SCHEDULE

E3.00

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)12 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: CHAGEE-SOUTH COAST PLAZZA

Report Page: (Page 1 of 8)

Project Address:

Date Prepared: 2025-07-03T13:27:51-04:00

A. GENERAL INFORMATION

01 Project Location (city)		04 Total Conditioned Floor Area (ft²)	1,535
02 Climate Zone	6	05 Total Unconditioned Floor Area (ft²)	0
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	0
● Retail			

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces	Unconditioned Spaces
01	02	03
04	05	06
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)
☑ New Lighting System	Complete Building Method	1535
☐ New Lighting System - Parking Garage	N/A	0
Total Area of Work (ft²)	1535	0

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 304279-0725-0004

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: CHAGEE-SOUTH COAST PLAZZA

Report Page: (Page 2 of 8)

Date Prepared: 2025-07-03T13:27:51-04:00

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)

Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)	Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)	Compliance Results
01	02	03
04	05	06
07	08	09
Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)5 / 170.2(e)4B
Tailored 140.6(c)3 / 170.2(e)4B (+)	Total Allowed (Watts)	Total Adjusted (Watts)
(See Table I)	(See Table J)	(See Table K)
Conditioned 1,103.05	1,103.05	897.8
Unconditioned		
Controls Compliance (See Table H for Details)		
Rated Power Reduction Compliance (See Table Q for Details)		

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: CHAGEE-SOUTH COAST PLAZZA

Report Page: (Page 3 of 8)

Date Prepared: 2025-07-03T13:27:51-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change¹	Watts per luminaire²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector
LR-3	SQAURE DOWNLIGHT	No	NA	17.9	Mfr. Spec	2	No	35.8	Pass
L-03	RECESSED DOWNLIGHT	No	NA	13	Mfr. Spec	19	No	247	Fail
L02	RECESSED DOWNLIGHT	No	NA	13	Mfr. Spec	5	No	65	Pass
L07	RECESSED DOWNLIGHT	No	NA	40	Mfr. Spec	9	No	360	Pass
L05	RECESSED LAVIN FLAT PANEL	No	NA	30	Mfr. Spec	2	No	60	Pass
L06	LED TAPE LIGHTING	No	NA	50	Mfr. Spec	1	No	50	Pass
LE01	LINEAR LED	No	NA	20	Mfr. Spec	4	No	80	Pass
Total Designed Watts: CONDITIONED SPACES								897.8	

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(b)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 304279-0725-0004

Schema Version: rev 20220101

Report Generated: 2025-07-03 10:27:55

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NRCC-LTI-E

Project Name: CHAGEE-SOUTH COAST PLAZZA

Report Page: (Page 4 of 8)

Date Prepared: 2025-07-03T13:27:51-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector
NA < 4,000W subject to multilevel	Whole Building Auto Time Switch	Pass

Area Level Controls

04	05	06	07	08	09	10	11	12
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector
BOH	Restaurant	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	Pass
BAR	Restaurant	Auth. Personnel	Dimmer	Auto. Time Switch	Included	NA: Not daylight zone	No	Fail
OPEN SPACE	Restaurant	Readily Accessible	Dimmer	Auto. Time Switch	Included	NA: Not daylight zone	No	Pass
OPEN SPACE	Restaurant	Readily Accessible	Dimmer	Auto. Time Switch	Included	NA: Not daylight zone	No	Pass

13

Plan Sheet Showing Daylit Zones:

E2.00

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Documentation Software: Energy Code Ace

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: CHAGEE-SOUTH COAST PLAZZA

Report Page: (Page 5 of 8)

Date Prepared: 2025-07-03T13:27:51-04:00

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.

Conditioned Spaces

01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment
BOH	Restaurant	0.65	198	128.7	No
BAR	Restaurant	0.65	828	538.2	No
OPEN SPACE	Restaurant	0.65	241	156.65	No
OPEN SPACE	Restaurant	0.65	430	279.5	No
TOTALS:		1,697	1,103.05		See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

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Report Generated: 2025-07-03 10:27:55

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Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: CHAGEE-SOUTH COAST PLAZZA

Report Page: (Page 6 of 8)

Date Prepared: 2025-07-03T13:27:51-04:00

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 304279-0725-0004

Schema Version: rev 20220101

Report Generated: 2025-07-03 10:27:55

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: CHAGEE-SOUTH COAST PLAZZA

Report Page: (Page 7 of 8)

Date Prepared: 2025-07-03T13:27:51-04:00

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCC-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Form/Title

NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.

NRCA-LTI-03-A - Must be submitted for automatic daylight controls.

System/Spaces To Be Field Verified

BOH; BAR; OPEN SPACE ; OPEN SPACE

BAR; OPEN SPACE ; OPEN SPACE

Generated Date/Time:

Documentation Software: Energy Code Ace

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Report Version: 2022.0.000

Compliance ID: 304279-0725-0004

Schema Version: rev 20220101

Report Generated: 2025-07-03 10:27:55

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: CHAGEE-SOUTH COAST PLAZZA

Report Page: (Page 8 of 8)

Date Prepared: 2025-07-03T13:27:51-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:

Documentation Author Signature:

Company:

Signature Date: 2025-07-03

Address:

CEN/HERS Certification Identification (if applicable):

City/State/Zip:

Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation that is provided to the building owner at occupancy.

Responsible Designer Name:

Responsible Designer Signature:

Company:

Date Signed: 2025-07-03

Address:

License:

City/State/Zip:

Phone:

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Schema Version: rev 20220101

Report Generated: 2025-07-03 10:27:55



PLUMBING SANITARY AND VENT DEMOLITION PLAN | 2

1/4" = 1'-0"

LEGEND:

-X-X- PLUMBING DEMOLITION WORK

GENERAL NOTES:

1. CONTRACTOR TO FILED VERIFY THE EXACT LOCATION & SIZES OF ALL EXIST. PIPING, RISERS, EQUIPMENTS, PLUMBING FIXTURES, RELATED VALVES & ACCESSORIES AND INFORM ENGINEER IN CASE OF ANY DISCREPANCIES.
2. ALL EXIST. PLUMBING SYSTEM WILL REMAIN AS EXIST. UNLESS SPECIFIED TO BE DEMOLISHED.
3. ALL EXISTING PIPE PENETRATIONS THROUGH FLOOR OR CEILING CONSTRUCTION, OR RATED WALLS UNCOVERED DURING DEMOLITION MUST BE PROPERLY SEALED WITH AN APPROVED FIRESTOPPING SEALANT.

KEY NOTES:

1. EXISTING MOP SINK TO BE ROTATED. CONTRACTOR TO V.I.F. EXACT LOCATION OF ROTATED MOP SINK & REUSE EXISTING PLUMBING PIPES IF POSSIBLE.
2. EXISTING HAND SINK TO BE DEMOLISHED. CONTRACTOR TO V.I.F. EXACT LOCATION OF EXISTING HAND SINK & SAME TO BE DEMOLISHED WITH ALL ASSOCIATED PIPING & EQUIPMENTS.
3. EXISTING 3 COMP SINK TO BE DEMOLISHED. CONTRACTOR TO V.I.F. EXACT LOCATION OF EXISTING 3 COMP SINK & SAME TO BE DEMOLISHED WITH ALL ASSOCIATED PIPING & EQUIPMENTS.
4. EXISTING PREP SINK TO BE DEMOLISHED. CONTRACTOR TO V.I.F. EXACT LOCATION OF EXISTING PREP SINK & SAME TO BE DEMOLISHED WITH ALL ASSOCIATED PIPING & EQUIPMENTS.
5. EXISTING FLOOR DRAIN TO BE DEMOLISHED. CONTRACTOR TO V.I.F. EXACT LOCATION OF EXISTING FLOOR DRAIN & SAME TO BE DEMOLISHED WITH ALL ASSOCIATED PIPING.
6. EXISTING GAS RANGE, GAS FRYER, GAS GRIDDLE & GAS BOILER TO BE DEMOLISHED. CONTRACTOR TO V.I.F. EXACT LOCATION OF EXISTING GAS RANGE, GAS FRYER, GAS GRIDDLE & GAS BOILER & SAME TO BE DEMOLISHED WITH ALL ASSOCIATED GAS PIPING & EQUIPMENTS.
7. EXISTING WATER AND GAS PIPING TO BE DEMOLISHED. CONTRACTOR TO V.I.F. EXACT LOCATION OF EXISTING WATER AND GAS PIPING & SAME TO BE DEMOLISHED.
8. EXISTING SANITARY, GREASE WASTE AND VENT PIPING TO BE DEMOLISHED. CONTRACTOR TO V.I.F. EXACT LOCATION OF EXISTING SANITARY, GREASE WASTE AND VENT PIPING & SAME TO BE DEMOLISHED.



PLUMBING WATER AND GAS DEMOLITION PLAN | 1

1/4" = 1'-0"

CONSULTANTS
(MEP ENGINEER):

NY ENGINEERS

NEARBY ENGINEERS
382 NE 191ST STREET SUITE
49674, MIAMI, FL 33179
PH - (646) 837-9217
WWW.NY-ENGINEERS.COM

CHAGEE
SOUTH COAST PLAZA

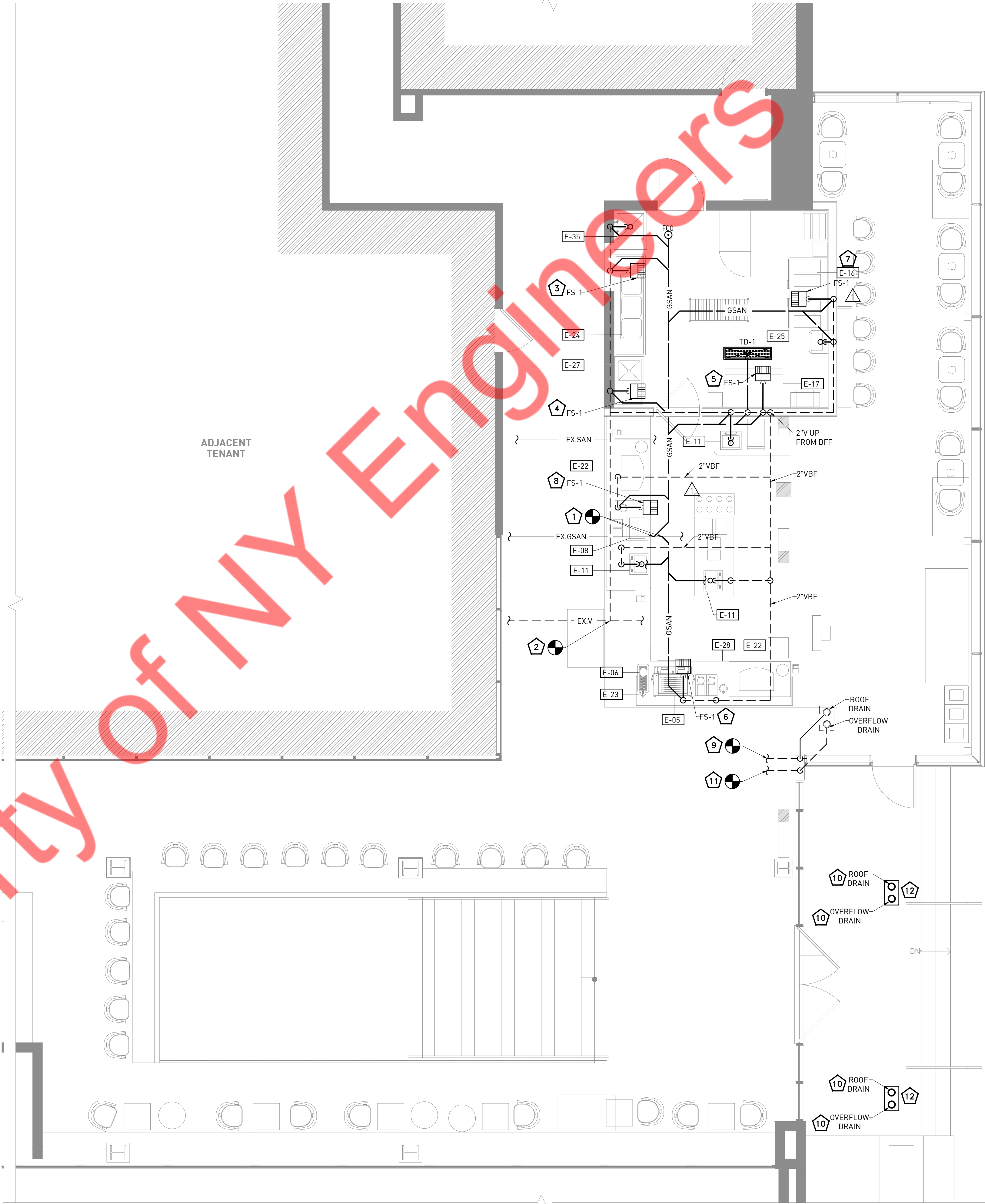
ISSUANCE NAME	DATE
01 CITY COMMENTS	10-27-25
02 CITY COMMENTS	11-26-25

PLUMBING
DEMOLITION PLANS

PD1.01

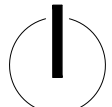
- GENERAL NOTES:**
1. CONTRACTOR TO FIELD VERIFY FEASIBILITY OF SLAB PENETRATION AS PER STRUCTURAL REQUIREMENT.
 2. PROVIDE ACCESS PANELS FOR WATER HAMMER ARRESTOR, CLEANOUTS & SHUT-OFF VALVES AS REQUIRED.
 3. REFER RISER DIAGRAMS FOR ALL PIPE SIZES.
 4. ANY UNUSED EXISTING PLUMBING PIPING MUST BE COMPLETELY REMOVED OR CAPED DO NOT ABANDON IN SPACE.
 5. ANY CHANGES OR UPGRADES TO TENANT'S EXISTING PLUMBING SYSTEM SHALL COMPLY WITH MALL CRITERIA.
 6. PLUMBING IS NOT PERMITTED IN ANY DEMISING PARTITIONS. FURR OUT THE WALL AS NECESSARY.
 7. ALL FLOOR PENETRATIONS MUST BE CORE BORED, SLEEVED, GROUTED, SEALED AND MADE WATERPROOF. SLEEVES MUST EXTEND A MINIMUM OF 4" AFF.
 8. TENANT IS REQUIRED TO INSTALL A WATERPROOF MEMBRANE IN ALL WET AREAS OF THE SPACE. TENANT SHALL USE A 30 MIL POLYETHYLENE CLEAVAGE MEMBRANE (EQUAL TO NOBLESEAL TS) INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND ANSI A108. MEMBRANE MUST BE EXTENDED UP THE WALL A MINIMUM OF 6" OR EQUAL TO THE HEIGHT OF THE FLOOR BASE.

- SANITARY KEYED NOTES:**
1. EXTEND CONNECT NEW 3" GREASE SANITARY LINE TO EXISTING SANITARY LINE IN SPACE. CONTRACTOR TO FIELD VERIFY THE SIZE, LOCATION AND INVERT OF EXISTING SANITARY LINE AND UPGRADE IF REQUIRED.
 2. EXTEND AND CONNECT NEW 2" VENT PIPING TO EXISTING VENT PIPING IN SPACE. CONTRACTOR TO FIELD VERIFY SIZE AND LOCATION OF EXISTING VENT PIPE. UPGRADE EXISTING VENT LINE IF REQUIRED.
 3. INDIRECT DRAIN FROM 3-COMPARTMENT SINK(E-24) TO THE FLOOR SINK WITH APPROVED AIR GAP
 4. INDIRECT DRAIN FROM 1-COMPARTMENT SINK(E-27) TO THE FLOOR SINK WITH APPROVED AIR GAP
 5. INDIRECT DRAIN FROM ICE MACHINE SINK(E-17) & WATER FILTER TO THE FLOOR SINK WITH APPROVED AIR GAP
 6. INDIRECT DRAIN FROM TEA EXTRACTION MACHINE(E-05), GLASS RINSER(E-04), DIPPER WELL(E-28) & SUGAR & MILK MACHINE(E-22) TO THE FLOOR SINK WITH APPROVED AIR GAP
 7. INDIRECT DRAIN FROM TEA BREWING MACHINE(E-16) & WATER FILTER TO THE FLOOR SINK WITH APPROVED AIR GAP
 8. INDIRECT DRAIN FROM DROP IN ICE BIN WITH SINK(E-08) & SUGAR & MILK MACHINE(E-22) SYSTEM TO THE FLOOR SINK WITH APPROVED AIR GAP
 9. EXTEND AND CONNECT NEW 3" DRAIN PIPING TO EXISTING STORM WATER PIPE AVAILABLE IN SPACE. CONTRACTOR TO FIELD VERIFY LOCATION, INVERT, SIZE AND FLOW DIRECTION OF EXISTING STORM WATER PIPE. ROUTE STORM PIPE AS PER SITE CONDITION REQUIREMENT.
 10. EXISTING ROOF DRAIN AND OVERFLOW DRAIN TO BE REPLACED WITH NEW ROOF DRAIN AND OVERFLOW ROOF DRAIN WITH EXISTING PIPES TO REMAIN. CONTRACTOR TO FIELD VERIFY EXISTING ROOF DRAIN AND OVERFLOW DRAIN PIPE SIZE, LOCATION AND CONDITION. CONNECT NEW DRAINS TO EXISTING STORM AND OVERFLOW STORM PIPING IF NOT ALREADY CONNECTED.
 11. EXTEND AND CONNECT NEW 3" OVERFLOW STORM DRAIN PIPING TO EXISTING OVERFLOW STORM WATER PIPE AVAILABLE IN SPACE. CONTRACTOR TO FIELD VERIFY LOCATION, INVERT, SIZE AND FLOW DIRECTION OF EXISTING OVERFLOW STORM WATER PIPE. ROUTE STORM PIPE AS PER SITE CONDITION REQUIREMENT.
 12. CONTRACTOR TO COORDINATE WITH LANDLORD FOR EXACT LOCATIONS OF ROOF DRAIN AND OVERFLOW DRAIN



PLUMBING SANITARY AND VENT PLAN | 1

1/4" = 1'-0"



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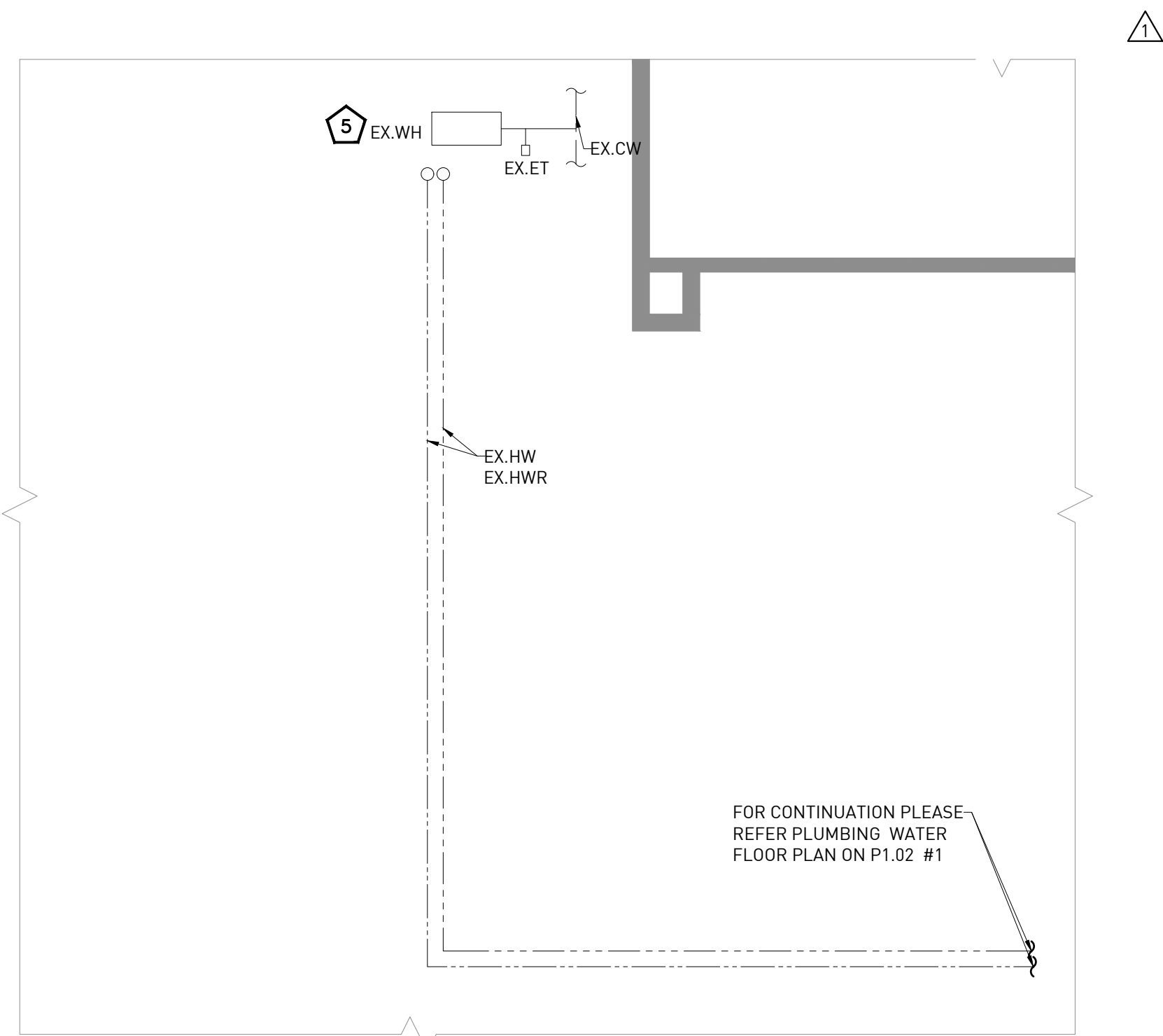
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PLUMBING SANITARY
& VENT FLOOR PLAN

P1.01



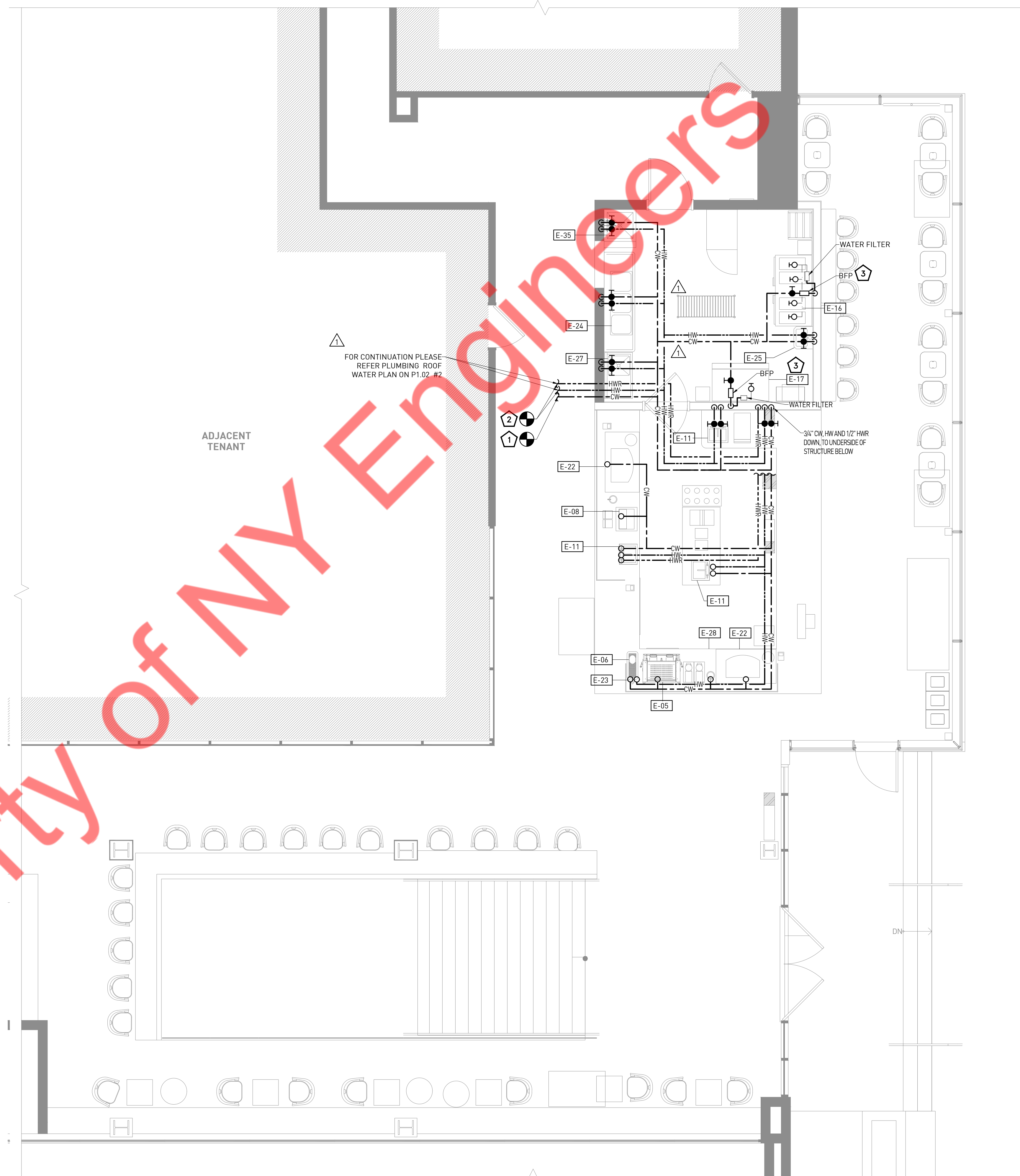
PLUMBING ROOF WATER FLOOR PLAN | 2
1/4" = 1'-0"

GENERAL NOTES:

1. CW/HW PIPING TO BE PROVIDED WITH INSULATION AS PER 2022 CALIFORNIA STATE ENERGY CODE (REFER SHEET P0.01)
2. PROVIDE BRANCH PRV IF PRESSURE EXCEEDS 80 PSI.
3. CONTRACTOR TO FIELD VERIFY FEASIBILITY OF SLAB PENETRATION AS PER STRUCTURAL REQUIREMENT.
4. PROVIDE ACCESS PANELS FOR WATER HAMMER ARRESTOR, CLEANOUTS & SHUT-OFF VALVES AS REQUIRED.
5. REFER RISER DIAGRAMS FOR ALL PIPE SIZES.
6. PROVIDE TRAP PRIMER/SEAL ON FLOOR DRAIN AS PER LOCAL JURISDICTION (REFER SHEET P2.1 DETAIL 9)
7. ANY UNUSED EXISTING PLUMBING PIPING MUST BE COMPLETELY REMOVED OR CAPED, DO NOT ABANDON IN SPACE.
8. ANY CHANGES OR UPGRADES TO TENANT'S EXISTING PLUMBING SYSTEM SHALL COMPLY WITH MALL CRITERIA.
6. PLUMBING IS NOT PERMITTED IN ANY DEMISING PARTITIONS. FURR OUT THE WALL AS NECESSARY.
7. ALL FLOOR PENETRATIONS MUST BE CORE BORED, SLEEVED, GROUTED, SEALED AND MADE WATERPROOF. SLEEVES MUST EXTEND A MINIMUM OF 4" AFF.

WATER KEYED NOTES:

1. EXTEND AND CONNECT NEW 1" CW PIPING TO THE EXISTING WATER LINE WITH EXISTING WATER METER. CONTRACTOR TO FIELD VERIFY SIZE AND LOCATION OF EXISTING WATER LINE, EXISTING WATER METER. REPLACE/UPGRADE IF REQUIRED.
2. EXTEND AND CONNECT NEW 1" HW & 3/4" HWR PIPING TO THE EXISTING HW AND HWR LINE FROM THE EXISTING WATER HEATER. CONTRACTOR TO FIELD VERIFY EXISTING HW & HWR LINE SIZE AND LOCATION. UPGRADE/REPLACE IF REQUIRED.
3. PROVIDE ASSE 1022 APPROVED BACKFLOW PREVENTOR TO EQUIPMENTS FOR BACKFLOW PREVENTION. INSTALL BFP AN ACCESSIBLE LOCATION.
4. ROUTE PIPING TIGHT TO UNDERSIDE OF STRUCTURE BELOW. AVOID ANY STRUCTURAL OBSTRUCTIONS.
5. EXISTING WATER HEATER WITH ASSOCIATED PIPING AND EQUIPMENTS TO BE REMAIN. CONTRACTOR TO FIELD VERIFY EXISTING WATER AND ASSOCIATED EQUIPMENT CONDITION. REPLACE IF REQUIRED.



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

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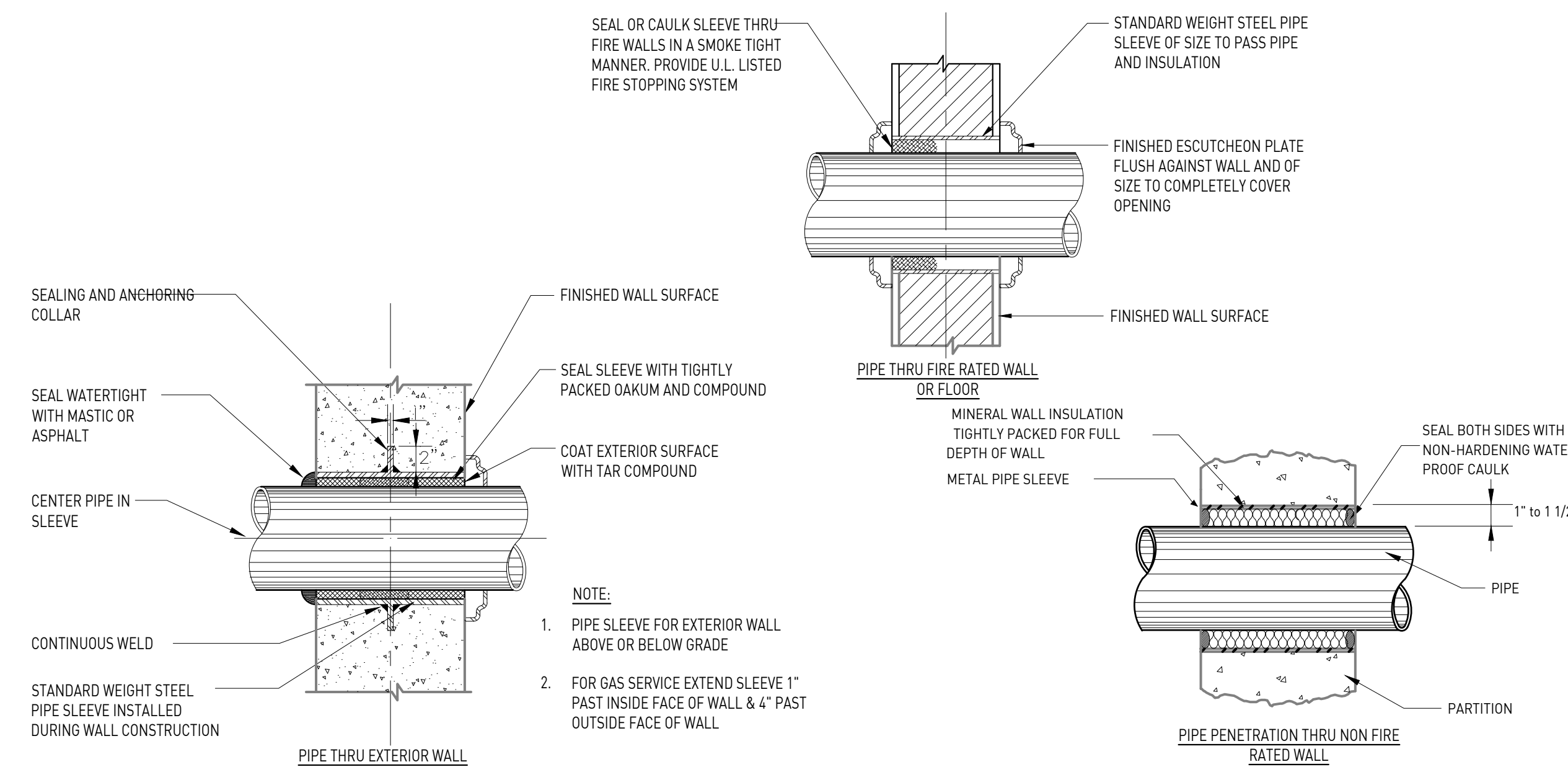
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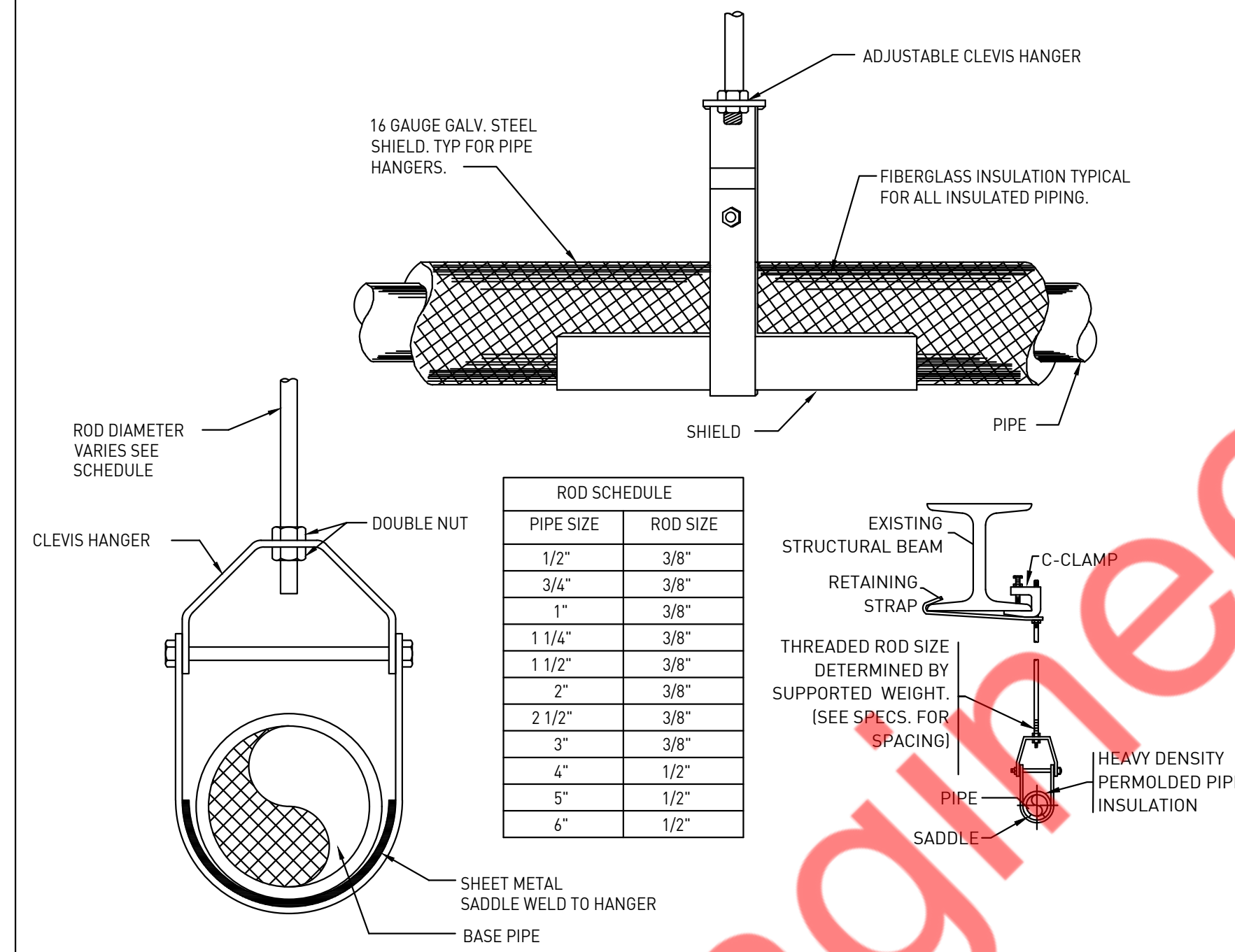
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PLUMBING WATER
FLOOR PLAN

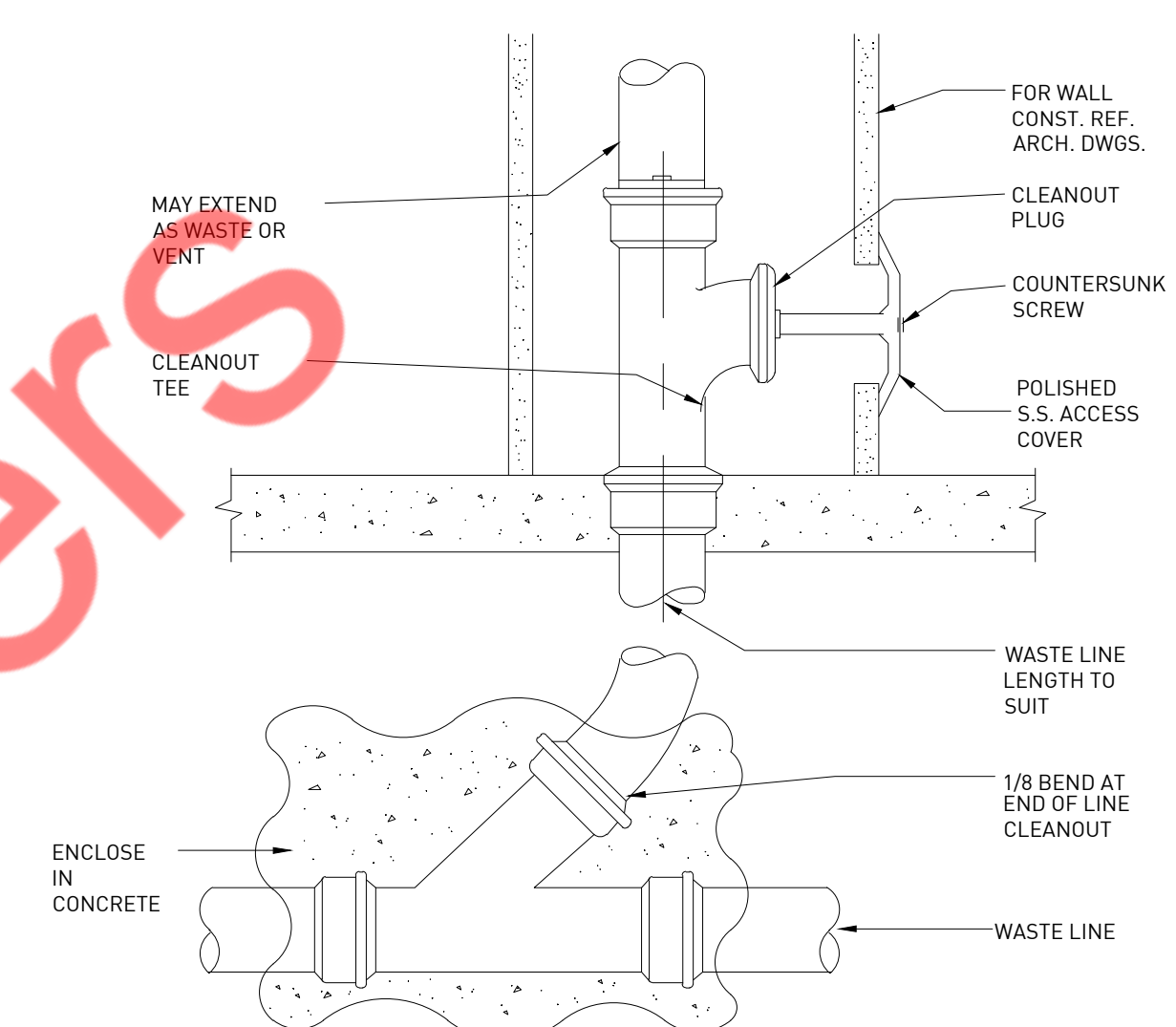
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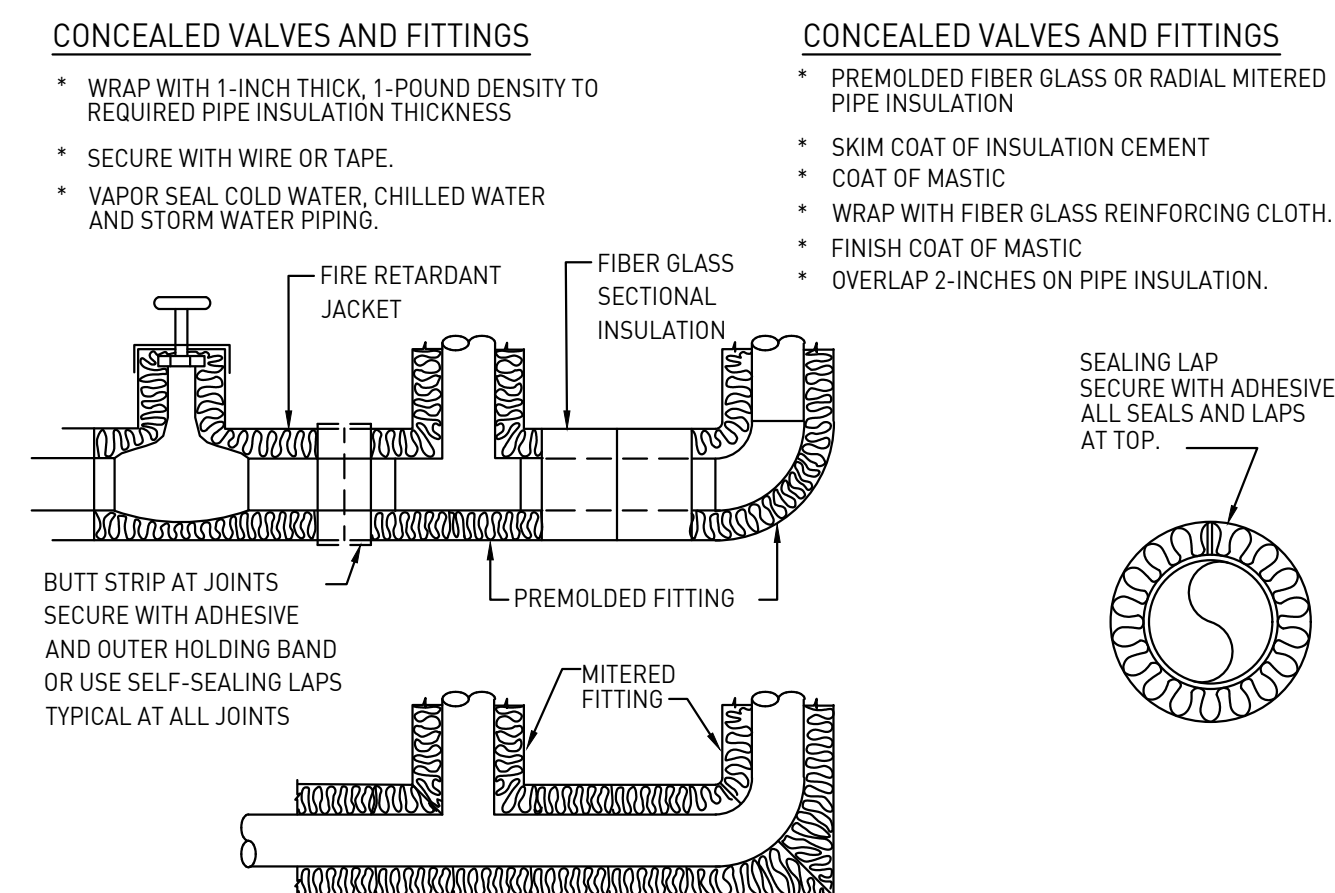
1 PIPE SLEEVE THRU WALL SECTION
P2.01 N.T.S.



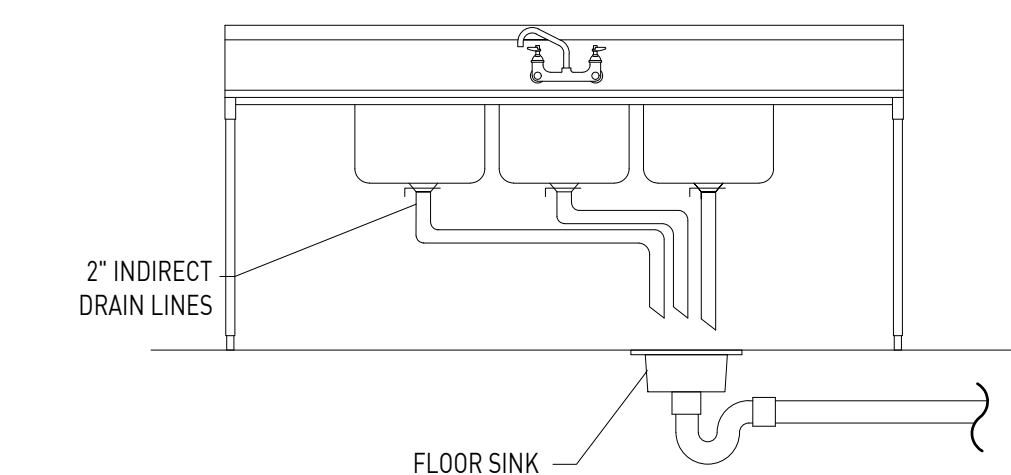
2 HANGER DETAIL
P2.01 N.T.S



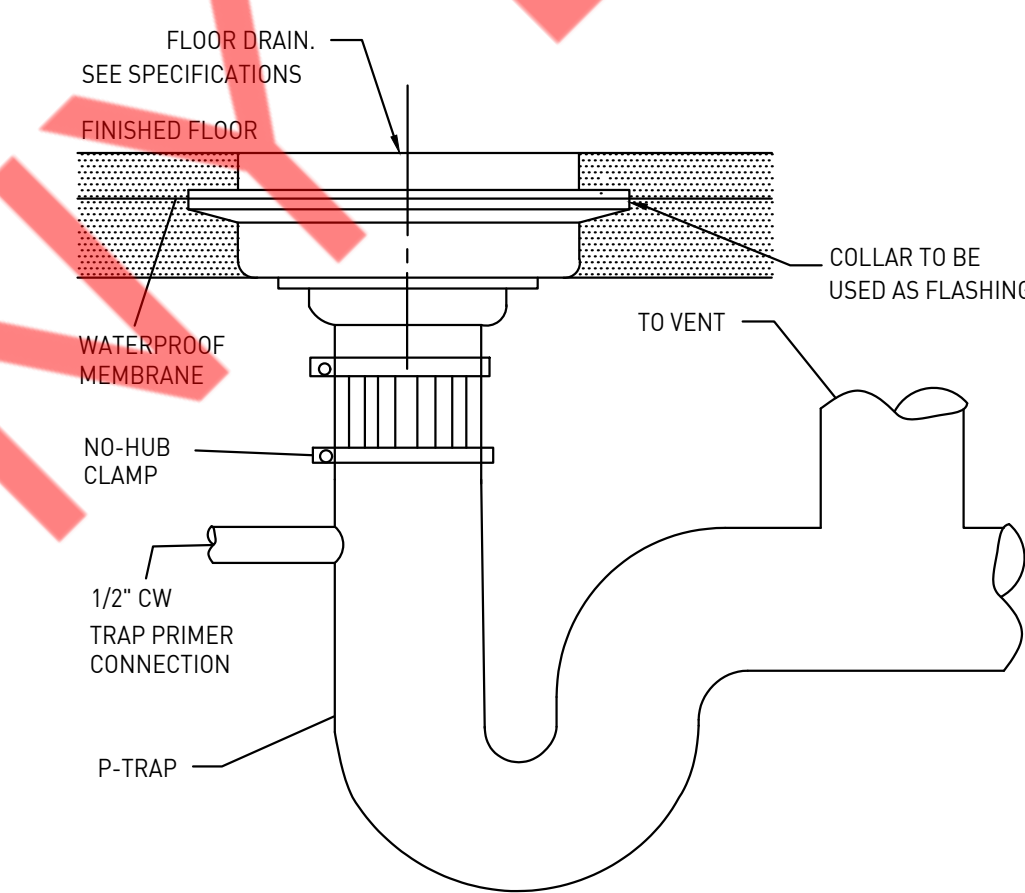
3 WALL CLEAN OUT DETAIL
P2.01 N.T.S



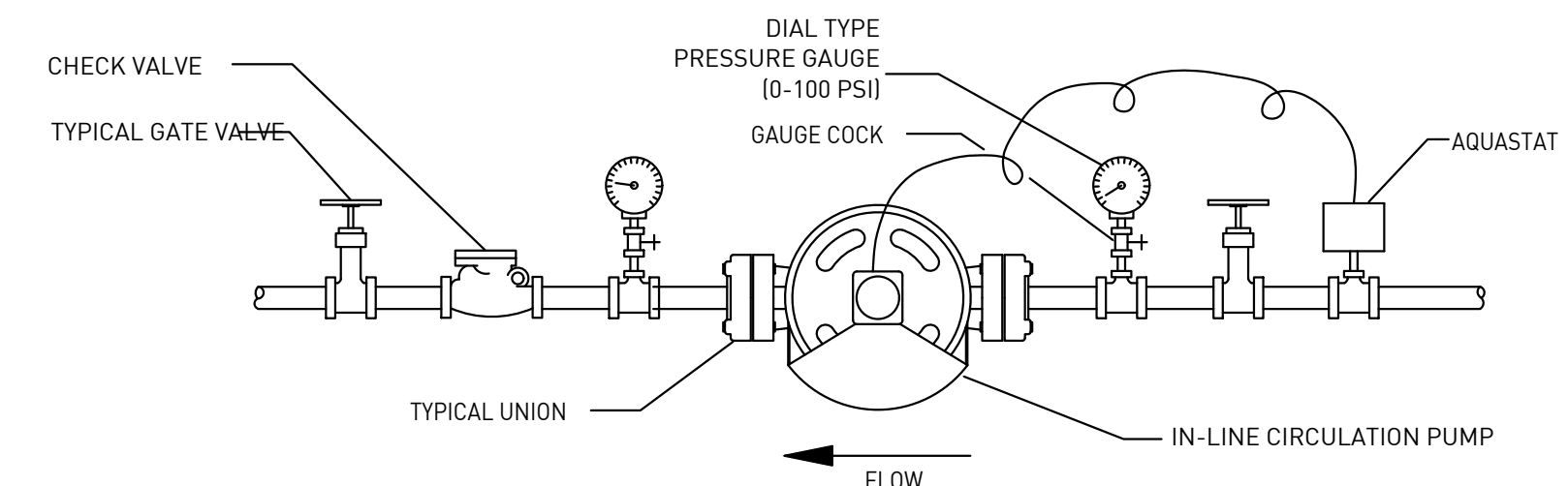
4 INSULATION OF PIPING, VALVES AND FITTINGS P2.01 FOR EXPOSED AND CONCEALED LOCATIONS N.T.S.



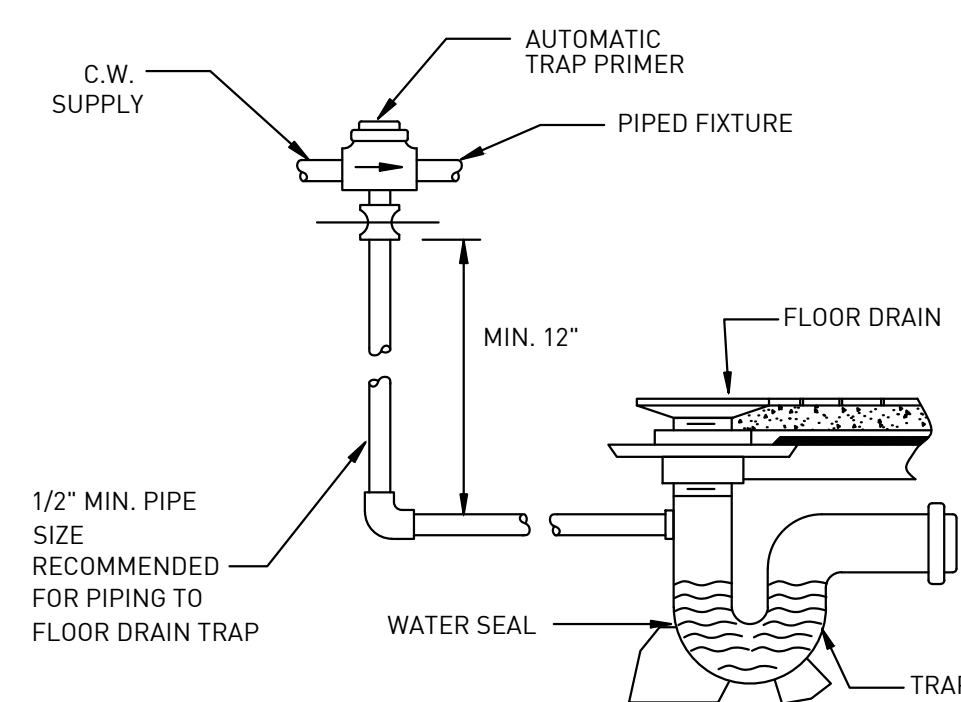
5 3 COMPARTMENT SINK DETAIL
P2.01 N.T.S



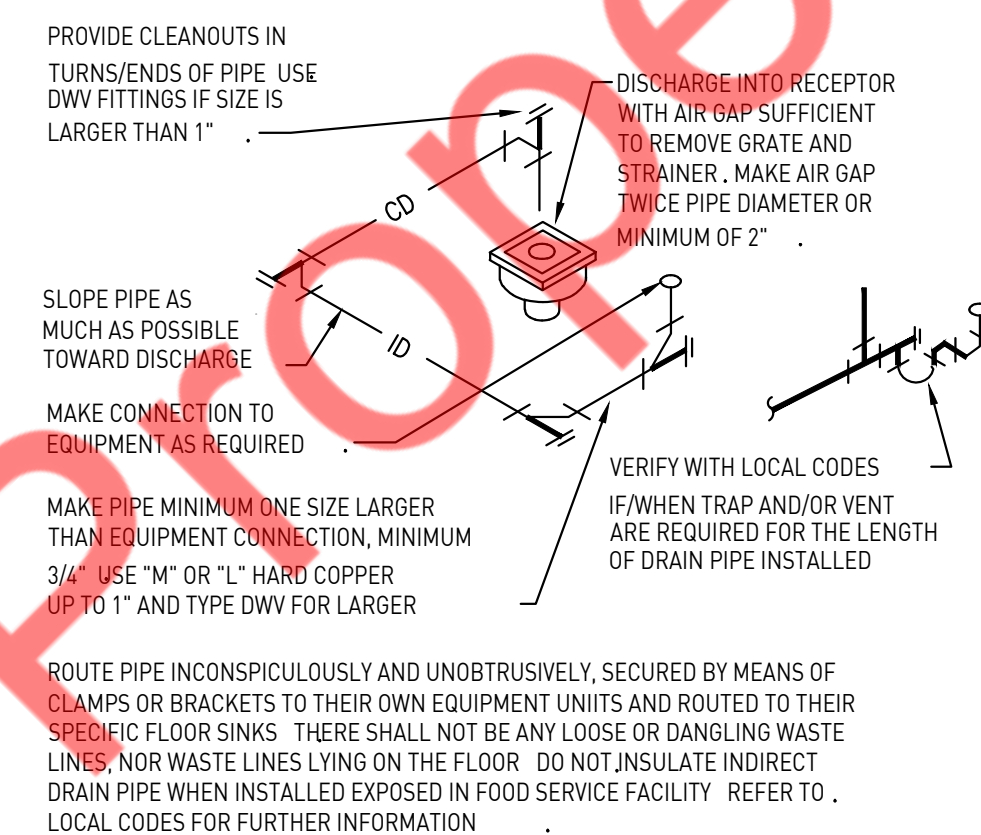
6 FLOOR DRAIN DETAIL
P2.01 N.T.S



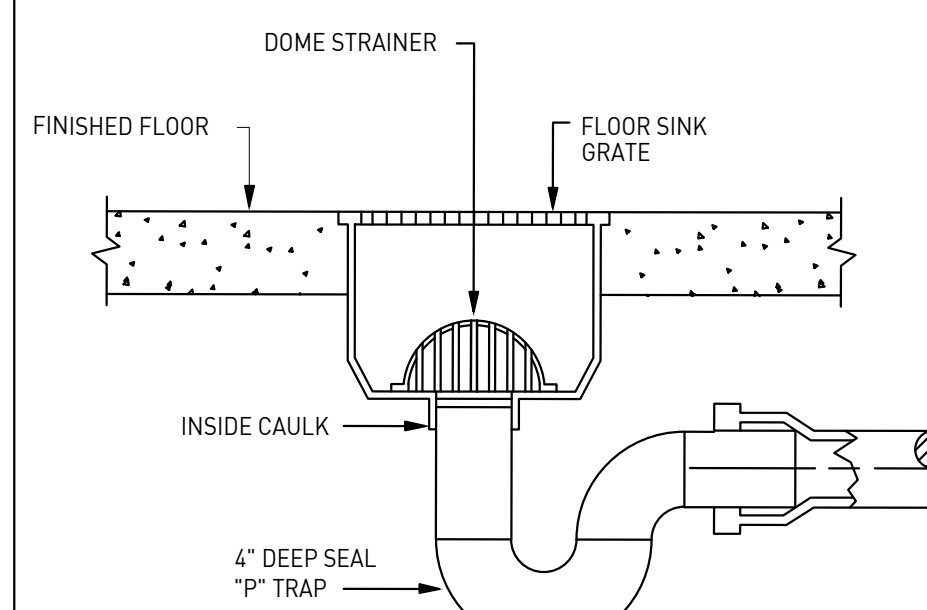
7
P2.01 N.T.S.



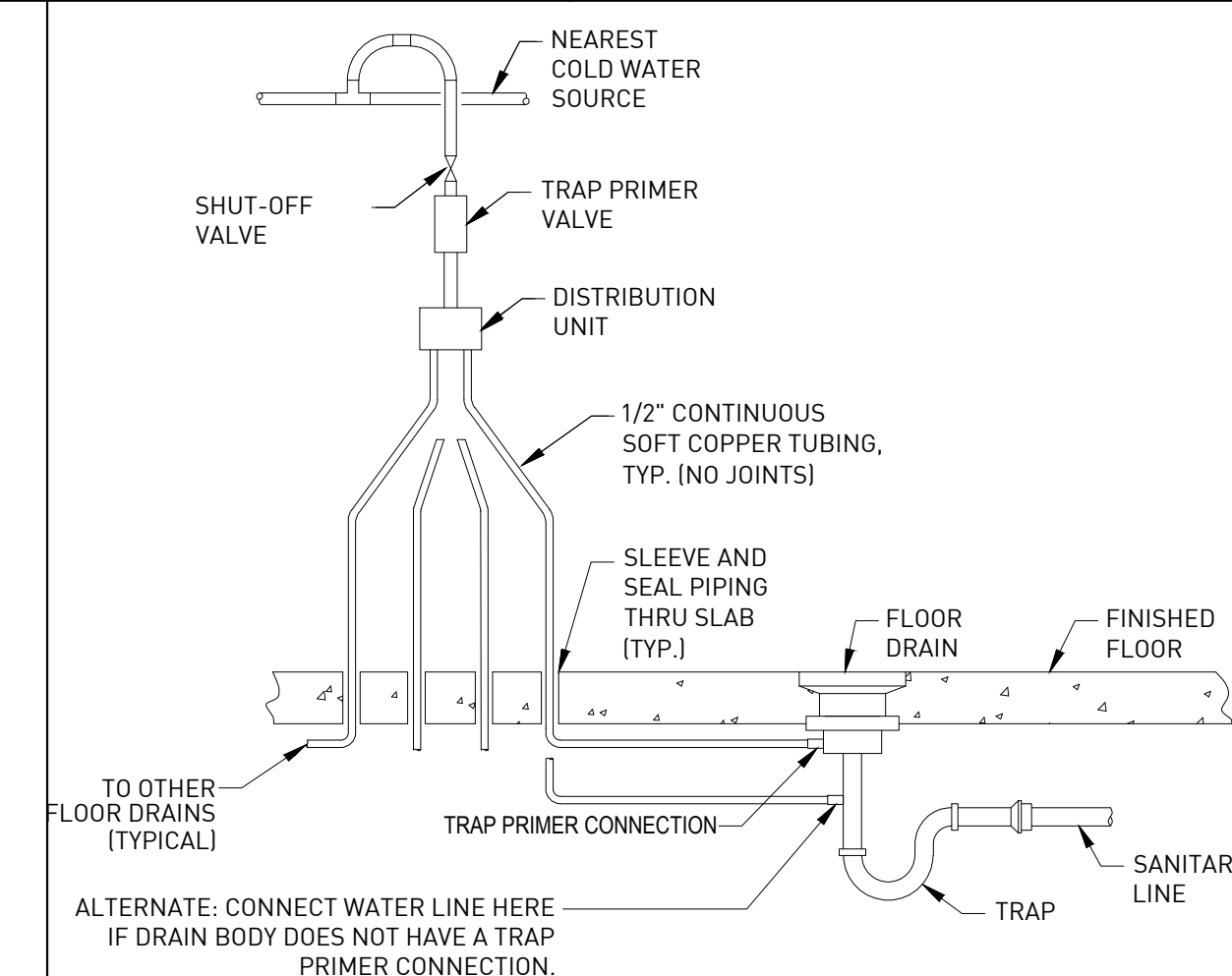
8 FLOW CONTROLLED TRAP PRIMER DETAIL
P2.01 N.T.S



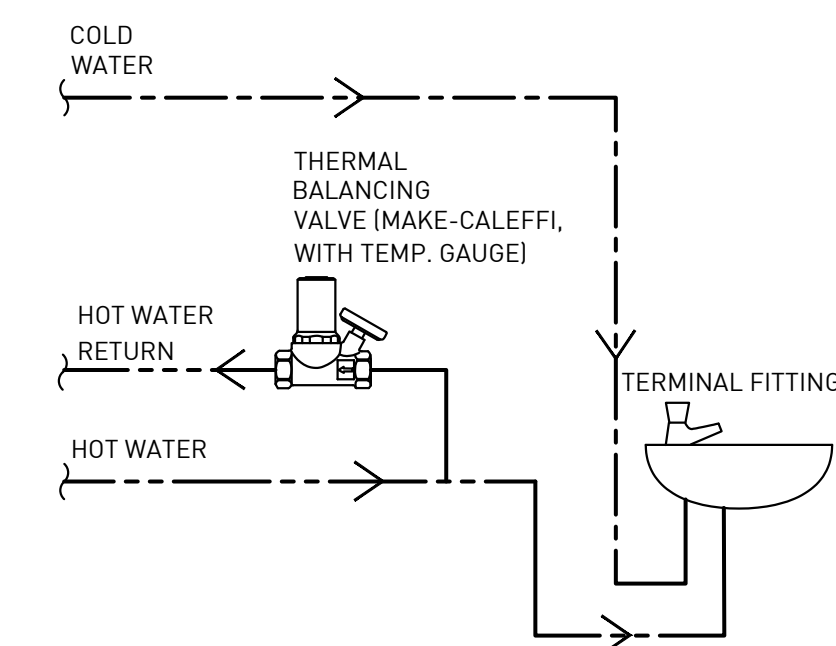
9	INDIRECT/CONDENSATE DRAIN
P2.01	N.T.S



10 FLOOR SINK DETAILS
P2.01 N.T.S



11 TRAP PRIMER DETAIL
P2.01 N.T.S



12	HOT WATER HEATER BALANCING
P2.01	VALVE PIPING DETAIL
	N.T.S.

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PLUMBING DETAILS

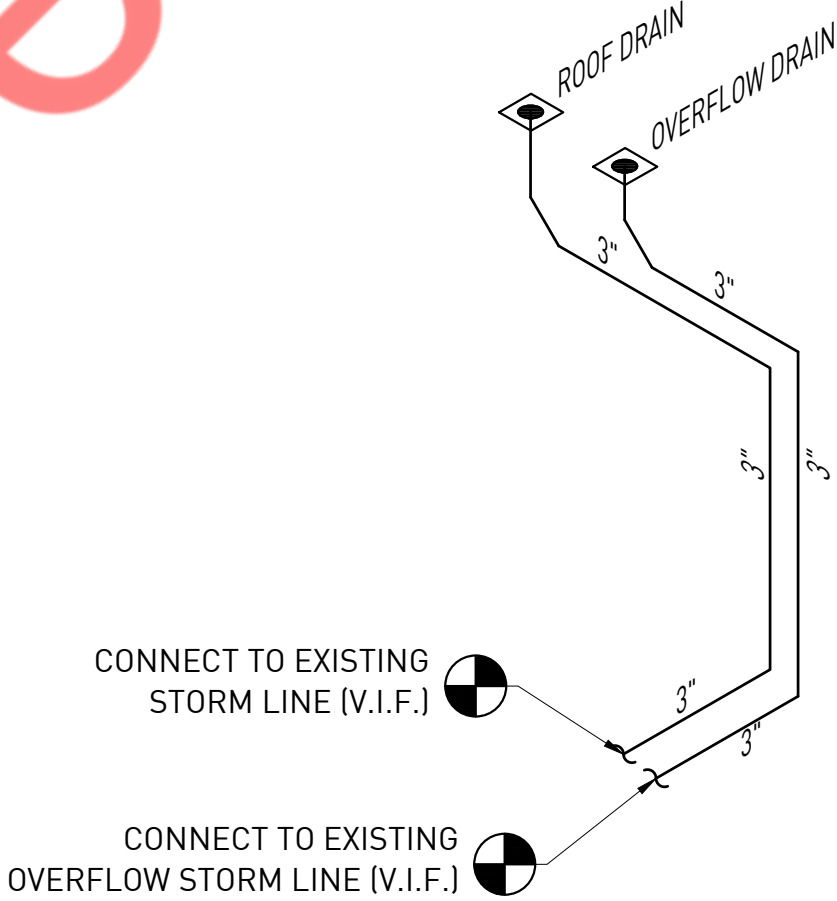
P2.01

PLUMBING FIXTURE SCHEDULE								
LEGEND	PLUMBING FIXTURE	CONNECTION SIZE - INCHES						
		SOIL/WASTE		VENT	COLD WATER	HOT WATER	FILTER WATER	REMARK
		DIRECT	INDIRECT					
E-05	TEA EXTRACTION MACHINE	-	1"	-	-	-	1/2"	IW TO FS
E-06	GLASS RINSER	-	2"	-	1/2"	-	-	IW TO FS
E-08	DROP-IN ICE BIN WITH SINK	-	1"	-	-	-	-	IW TO FS
E-11	DROP-IN SINK	2"	-	1-1/2"	1/2"	1/2"	-	-
E-16	TEA BREWING MACHINE	-	-	-	-	-	1/2"	IW TO FS
E-17	ICE MACHINE	-	1"	-	1/2"	-	1/2"	IW TO FS
E-22	SUGAR & MILK MACHINE	-	1"	-	1/2"	-	-	IW TO FS
E-23	WATER DISPENSING TOWER	-	1"	-	-	-	1/2"	IW TO FS
E-23.1	HOT WATER DISPENSER	-	1"	-	1/2"	1/2"	-	IW TO FS
E-24	3-COMP SINK	-	2"	-	3/4"	3/4"	-	IW TO FS
E-25	HAND SINK	2"	-	1-1/2"	3/4"	3/4"	-	-
E-27	1-COMP SINK	-	2"	-	3/4"	3/4"	-	IW TO FS
E-28	DIPPER WELL	-	1"	-	1/2"	-	-	IW TO FS
E-35	MOP SINK	2"	-	1-1/2"	3/4"	3/4"	-	-
FD-1	FLOOR DRAIN	3"	-	2"	-	-	-	-
FS-1	FLOOR SINK	3"	-	2"	-	-	-	-
TP	TRAP PRIMER	-	-	-	1/2"	-	-	INSTALL FOR ALL MULTIPLE FLOOR DRAINS OR EQUIVALENT.
TD-1	TRENCH DRAIN	3"	-	2"	-	-	-	-
NOTE:								
1. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ALL PLUMBING FIXTURES SPECIFICATION.								

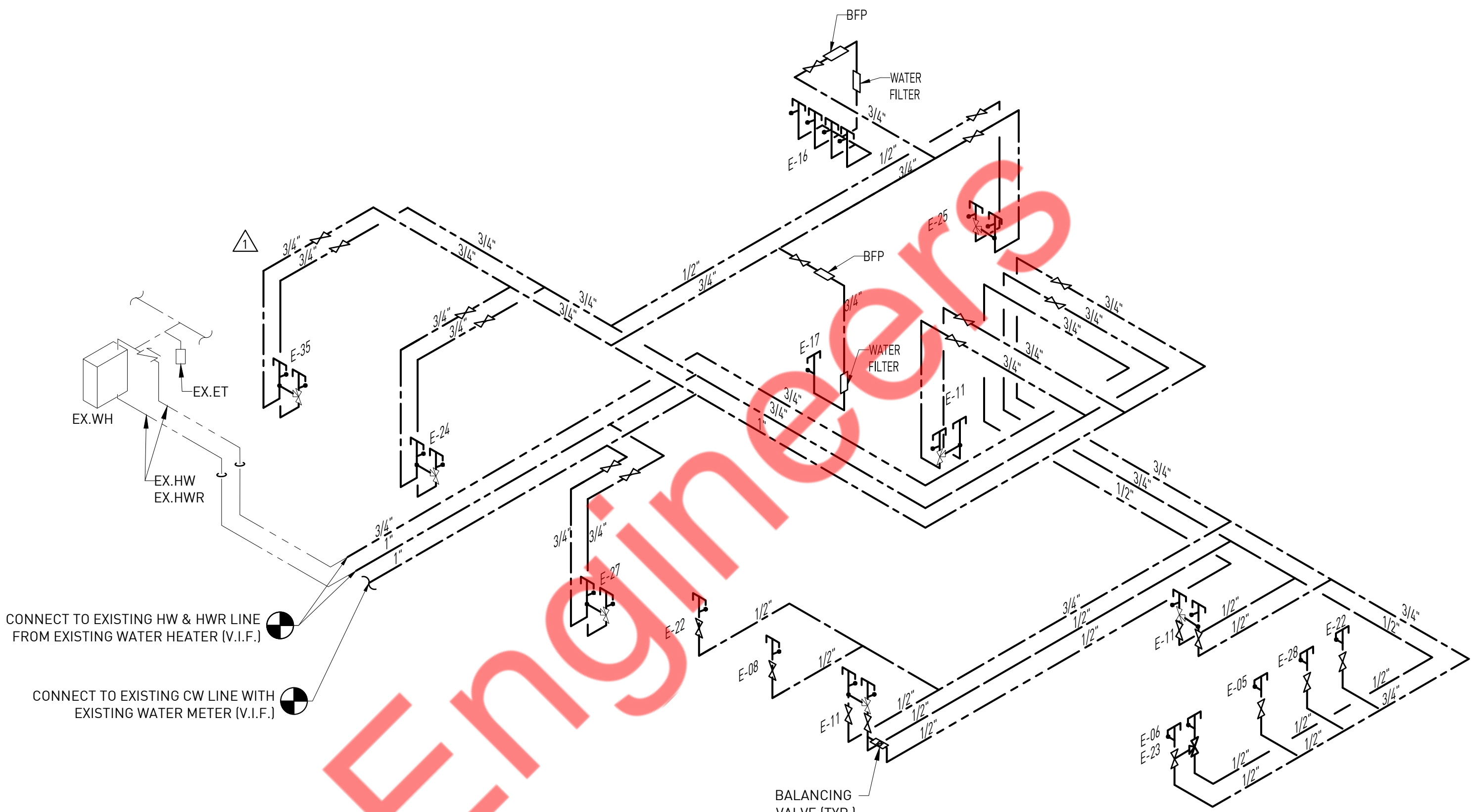
FIXTURE UNIT CALCULATION				
TAG	EQUIPMENT	QTY	WSFU	TOTAL
E-05	TEA EXTRACTION MACHINE	1	0.5	0.5
E-06	GLASS RINSER	1	0.5	0.5
E-08	DROP-IN ICE BIN	1	1	1
E-11	DROP IN SINK	3	1	3
E-16	TEA BREWING MACHINE	4	0.5	2
E-17	ICE MACHINE	1	0.5	0.5
E-22	SUGAR & MILK MACHINE	2	1	2
E-23	WATER DISPENSING	1	0.5	0.5
E-24	3 COMP. SINK	1	3	3
E-25	HAND SINK	1	1	1
E-27	1 COMP. SINK	1	3	3
E-28	DIPPER WELL	1	2	2
E-35	MOP SINK	1	3	3
TOTAL WATER SUPPLY FIXTURE UNIT				22
WSFU VALUES AS PER CALIFORNIA PLUMBING CODE 2022 CHART A 105.1(1)				
AS PER CALIFORNIA PLUMBING CODE 2022, CHART A 105.1(7) FOR 20 GPM CALCULATED PIPE SIZE IS 1"				

INSTANTANEOUS WATER HEATER SCHEDULE				
MARK	DESCRIPTION	MAKE/MODEL	ELECTRICAL	DESCRIPTION/REMARKS
EX.WH	GAS TANKLESS WATER HEATER	AO SMITH AT-M50 ASME-N	120V/1/60	GAS TANKLESS WATER HEATER. 15 MBH MINIMUM & 380 MBH MAXIMUM GAS INPUT. 8.7 GPM @ 70° TEMP RISE.

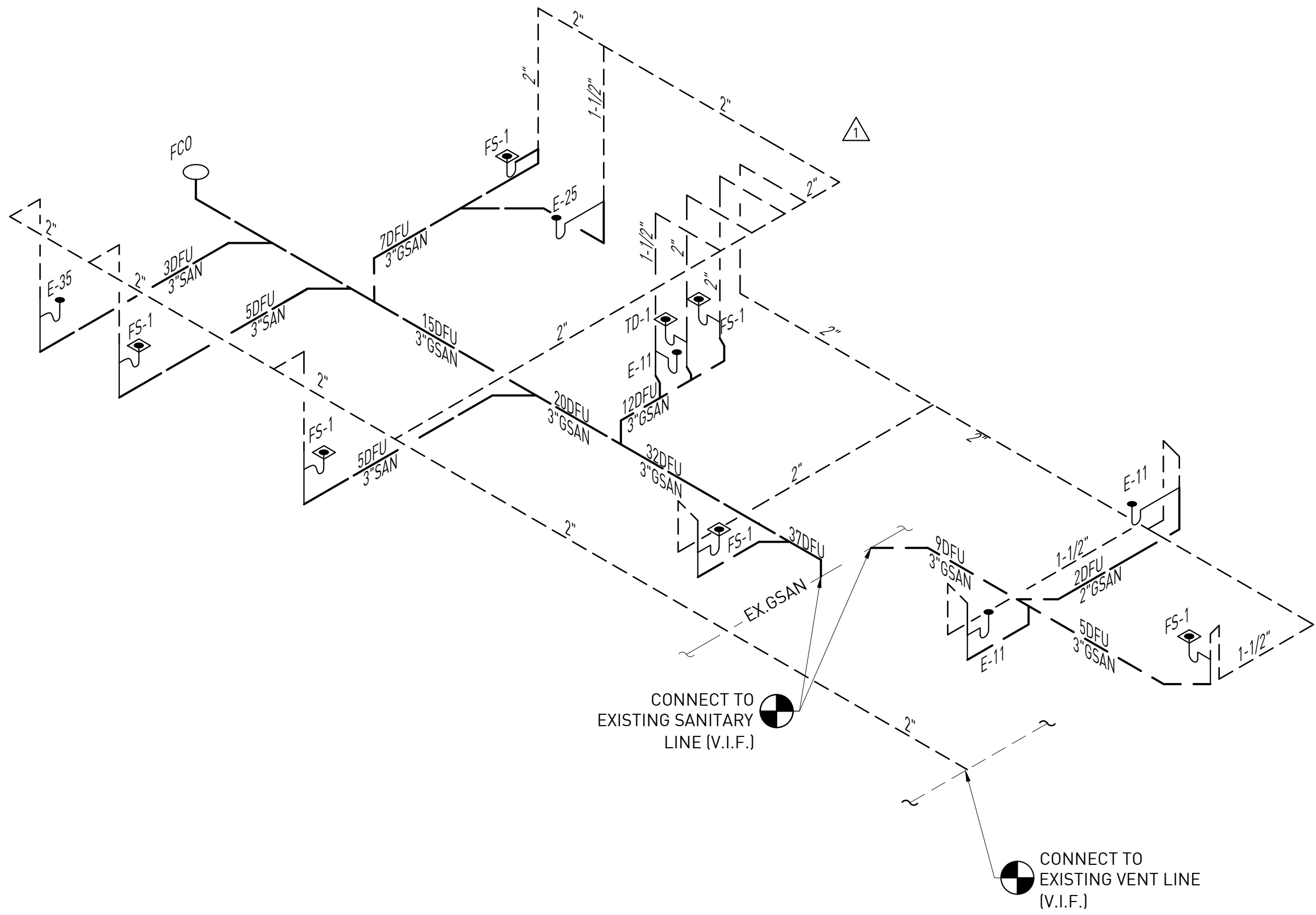
GREASE INTERCEPTOR SIZING			
FIXTURE	QUANTITY	DFU PER FIXTURE	TOTAL DFU
FLOOR SINK (FS-1)	6	5	30
MOP SINK (E-35)	1	3	3
DROP IN SINK (E-11)	3	2	6
HAND SINK(E-25)	1	2	2
TOTAL DRAINAGE FIXTURE UNITS(DFU)			41
AS PER 2022 CALIFORNIA PLUMBING CODE TABLE 1014.3.6 FOR 41 DFU WE REQUIRED 1250 GALLONS			



PLUMBING STORM RISER DIAGRAM | 3



PLUMBING WATER SUPPLY RISER DIAGRAM | 2



PLUMBING SANITARY & VENT RISER DIAGRAM | 1

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PLUMBING
SCHEDULE AND RISER