

RESTAURANT REQUIREMENTS

- PROVIDE WATERPROOFING MEMBRANE ALONG ALL KITCHEN WALLS THAT ABUT LEASE LINE/DEMISING WALLS. UP TO 8' A.F.F. AND 8' AWAY FROM WALL. BEHIND/UNDER FINISHES (MAPEI, RED GARD, OR SIMILAR), EVEN BEHIND WATER RESISTANT FINISHES. PROVIDE PHOTOGRAPHIC EVIDENCE OF INSTALLATION.
- SEAL AROUND ALL REAR DOORS, ESPECIALLY IN KITCHEN AREAS.
- PROVIDE STRUCTURAL REINFORCEMENT FOR THE HOOD EXHAUST FAN (ROOF) OPENINGS.
- GREASE REFill AND WASTE IS PREFERRED TO BE ON A CLOSED LOOP SYSTEM (SIMILAR TO RESTAURANT TECHNOLOGIES). REFill AND REMOVAL BOX SHALL BE RECESSED WITHIN REAR WALL.

MECHANICAL PLAN NOTES

- A. USE EXISTING TWO 5 TON HEAT PUMP TYPE AIR HANDLING UNIT WITH CONDENSING UNIT. PROVIDE MODIFICATIONS TO DUCT SYSTEM AS SHOWN. PROVIDE FLEXIBLE CONNECTORS ON SUPPLY CONNECTIONS. INSTALL FIRE DAMPERS IN ANY FIRE WALLS AND BETWEEN FLOORS. TRANSITION TO DUCT SIZES SHOWN. PROVIDE DUCTWORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN. REFER TO A/C UNIT SCHEDULE FOR ADDITIONAL REQUIREMENTS.
- B. FOR SYSTEM OVER 2000 CFM CHECK FOR DUCT MOUNTED AIR SMOKE DETECTORS AND THAT MEET THE REQUIREMENTS OF U.L. 268A. INTERLOCKED TO SHUTDOWN A/C UNIT UPON DETECTION OF SMOKE. IF NECESSARY PROVIDE SMOKE DETECTOR WITH AN ANNUNCIATOR, ALARM AND POWER L.E.D.'S FOR VISIBLE AND AUDIBLE ALARM SIGNAL, AND VISIBLE TROUBLE SIGNAL. MOUNT ANNUNCIATOR ON ROOM SIDE OF CEILING.
- C. ALL DUCTS WILL MINIMUM 26 GAUGE SHEET METAL WITH EXTERNAL DUCT WRAP INSULATION FOR INTERNAL RECTANGULAR DUCTING AND INTERNAL INSULATION FOR ALL EXPOSED ROUND DUCTWORK. ALL DUCTS TO BE MANUFACTURED AND INSTALLED ACCORDING TO ASHRAE AND SMACNA METAL DUCT CONSTRUCTION STANDARD, LATEST EDITION. ALL MATERIALS WILL CONFORM TO NFPA 90A.
- D. THERMOSTATS SHALL BE 7-DAY PROGRAMMABLE TYPE. MOUNT THERMOSTAT 48" A.F.F. IF EXISTING THERMOSTAT AND REMOTE SENSOR ARE NOT REUSABLE THEN PROVIDE NEW THERMOSTAT WITH LOCKABLE COVER. COORDINATE LOCATION OF THERMOSTAT. PROVIDE REMOTE SENSOR LOCATED 72" ABOVE FINISHED FLOOR NEAR LOCATION INDICATED. SEAL WALL OPENINGS WITH CAULK. COORDINATE LOCATION ON SITE WITH GENERAL CONTRACTOR AND EQUIPMENT.
- E. ALL INTERIOR AIR DUCTS WITH INSULATION SHALL HAVE A MINIMUM OF THICKNESS OF 1.5", R-6 INSULATION. OUTSIDE AIR DUCTS TO HAVE R-8 INSULATION ACCORDING TO INTERNATIONAL ENERGY CONSERVATION CODE 2018.
- F. ALL SEAMS, JOINTS, ETC WILL BE SEALED TO MAKE AIR DUCT AIRTIGHT. PRESSURE SENSITIVE MATERIALS AND OTHERS APPROVED BY LATEST SMACNA SEALING MATERIALS WILL BE USED.
- G. ALL EVAPORATOR UNITS SHALL HAVE A FLOAT SWITCH TO CONTROL OVERFLOW THAT WILL AUTOMATICALLY SHUT DOWN THE SYSTEM. THE DEVICE SHALL BE ATTACHED TO THE SECONDARY DRAIN OUTLET ON THE UNIT.
- H. ALL CONDENSATE DRAINS WILL BE COPPER FULL DIAMETER OF OUTLET AND WILL TERMINATE IN THE NEAREST ROOF DRAIN OR INDIRECT WASTE.
- I. ALL EQUIPMENT AND MATERIALS WILL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND ACCORDING TO THE BEST PRACTICE.
- J. TESTING AND BALANCING SHALL BE DONE IN ACCORDANCE WITH INTERNATIONAL ENERGY CONSERVATION CODE 2018, SECTION C408.2.2. BALANCING PROCEDURES SHALL BE IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (N.E.B.B.), THE ASSOCIATED AIR BALANCE COUNCIL (A.A.B.C) NATIONAL STANDARDS OR EQUIVALENT PROCEDURES.
- K. HANGER ATTACHMENTS TO THE STEEL STRUCTURE WILL BE RATED POWDER ACTUATED FASTENERS, "C" CLAMPS, WELDED STUDS, CLAMP HANGERS, JOIST CLAMPS OR OTHER METHODS RECOMMENDED BY SMACNA'S "METAL AND FLEXIBLE STANDARDS", CHAPTER 4, AND WILL HAVE A MINIMUM SAFETY MARGIN OF 4:1. SUSPENDED FROM TOP CHORD OF JOISTS, NOTHING FROM DECK OR CROSS BRACING.
- L. ALL HVAC CONTROLS AND CONTROL WIRING SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.

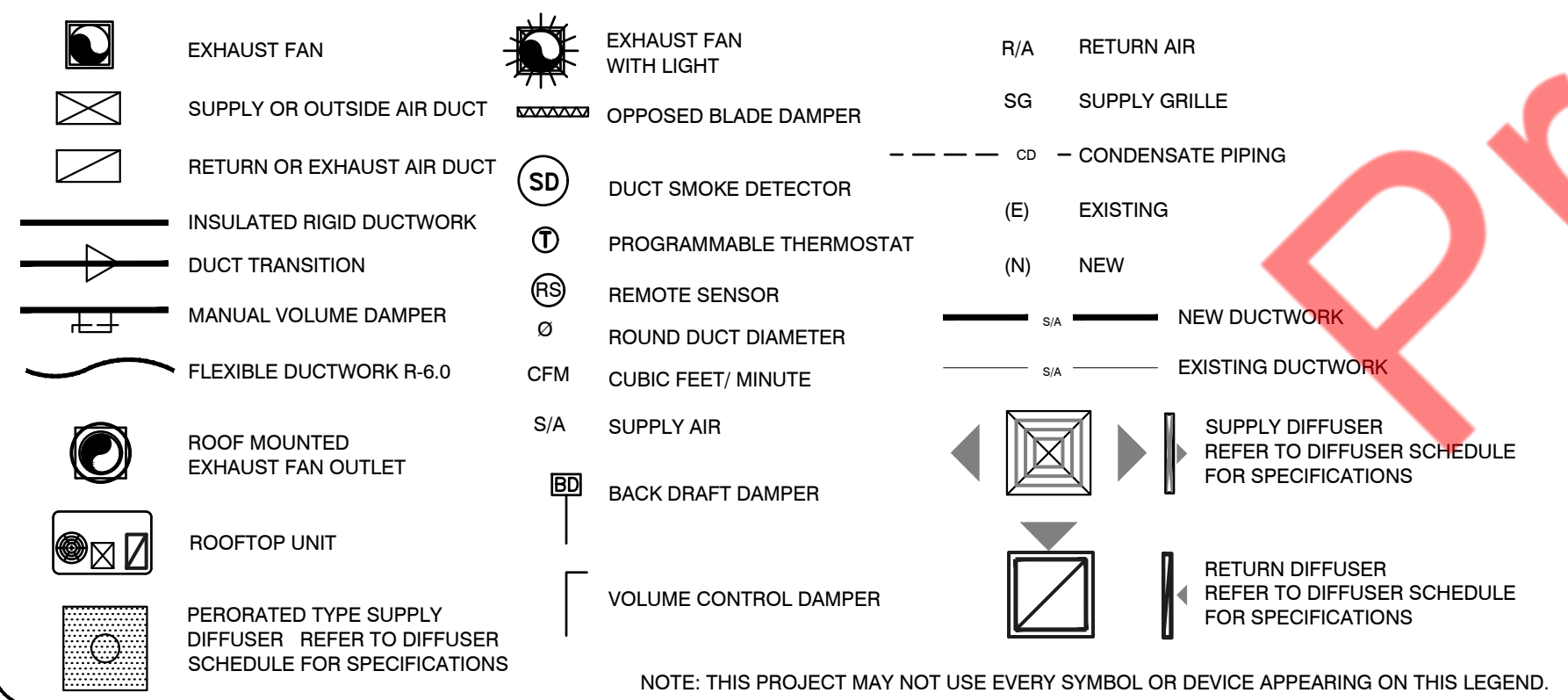
SCOPE OF WORK

USE EXISTING TWO 5 TON SPLIT SYSTEM AIR HANDLING UNIT & CONDENSING UNIT. REUSE EXISTING DUCTWORK AND DIFFUSERS AS MUCH AS POSSIBLE AND PROVIDE NEW TO DUCT SYSTEM AS SHOWN.
PROVIDE 1 RESTROOM EXHAUST FAN. PROVIDE 1 NEW KITCHEN EXHAUST FAN & PROVIDE 1 EXHAUST FAN ABOVE THE MOP SINK.
COORDINATE WITH GC ANY ADDITIONAL REFRIGERATION WORK REQUIRED AND WORK REQUIRED ON KITCHEN EXHAUST SYSTEMS AND WITH GC AND PLUMBING CONTRACTOR PROVIDING CONDENSATE LINES FOR MECHANICAL EQUIPMENT AND GAS FLUE FOR WATER HEATERS.

CITY OF FEDERAL WAY BUILDING DEPARTMENT NOTES

- ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF 2018 IBC AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.
- 1. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFESSIONAL ENGINEER TO PROVIDE THE REQUIRED SPECIAL INSPECTIONS AND TESTS
- 2. THE LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF SUCH MECHANICAL SYSTEMS AND CONDUCTING SUCH TESTS WILL FILE DOCUMENTATION AND REPORTS OF TESTS THAT THE SYSTEM COMPLIES WITH THE CONSTRUCTION DOCUMENTS AND APPLICABLE LAWS.
- 3. TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE 2018 IMC:
 - A. VENTILATION SYSTEM SERVING COMMERCIAL COOKING APPLIANCES - IMC 506
 - B. REFRIGERATION SYSTEMS - IMC 1108
- 4. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH THE REFERENCED CODE OR STANDARD:
 - A. DUCT CONSTRUCTION AND INSTALLATION- 2018 IMC 603
 - B. AIR INTAKES, EXHAUSTS AND RELIEF - 2018 IMC 401.5
 - C. GAS FIRED EQUIPMENT -2018 INTERNATIONAL FUEL GAS CODE
- 5. MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG. FAHRENHEIT.
- 6. VENTILATION FOR ALL AREAS SHALL COMPLY WITH 2018 IMC 401.
- 7. 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 AS REQUIRED BY 2018 IMC 403.3
- 8. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE-RATED WALL AND SMOKE WALL CONSTRUCTION AND LOCATION.
- 9. 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 BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.
- 10. ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183.
- 11. SMOKE DETECTOR SHALL MEET UL268A.

MECHANICAL SYMBOLS



SPLIT SYSTEM SCHEDULE

Table with columns for Unit Tag, Unit Type, Air Handler Data, and Condensing Unit Data. Includes details for AHU-1(E) and CU-1(E).

HEAT PUMP SPLIT SYSTEM NOTES:-

- 1. EXISTING AHU-1&CU-1 WITH ALL ITS ACCESSORIES TO REMAIN SAME AND TO BE REUSED.
- 2. CONTRACTOR TO ADJUST FRESH AIR DAMPER TO PROVIDE OUTSIDE AIR AS MENTIONED IN VENTILATION REQUIREMENT TABLE.
- 3. S.A.E. : SAME AS EXISTING.
- 4. CONTRACTOR TO FIELD VERIFY IF AHU-1 & CU-1 IS WORKING AT 100% RATED CAPACITIES/LOADS. INFORM TO DESIGN ENGINEER IF ANY DISCREPANCIES ARE FOUND IN PERFORMANCE PRIOR TO CONSTRUCTION.
- 5. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND CONFIGURATION OF THE UNITS ON SITE.
- 6. IF REQUIRED, PROVIDE NEW THERMOSTAT AND TEMPERATURE SENSORS COMPATIBLE WITH EXISTING AHU-1, CU-1. COORDINATE FINAL LOCATIONS OF T-STAT AND T-SENSORS WITH ARCHITECT/OWNER.
- 7. CLEAN/REPLACE RETURN AIR FILTERS.
- 8. CONTRACTOR TO VERIFY ON SITE, THE HEATING CAPACITY OF AHU. IF FOUND LESS THAN 75 MBH FOR AHU UNIT. PLEASE INFORM DESIGN ENGINEER BEFORE PRIOR TO BID.

FAN SCHEDULE

Table with columns for Designation, Key-Fan, BEF-1(N), and JEF-1(N). Lists status, quantity, manufacturer, model, CFM, HP, FLA(A), weight, and voltage for various fan types.

DIFFUSER SCHEDULE

Table with columns for Manufacturer, Designation, Use, Model, Mounting, Location, Face Size, Neck Size, Frame Type, Finish, Noise Criteria, and Accessories. Lists diffuser types like Titus and Exhaust.

- 1. MOUNTING FRAME TYPE SHALL BE COORDINATED WITH CEILING/ WALL CONSTRUCTION.
- 2. COORDINATE FINAL FINISH/COLOR WITH ARCHITECT/OWNER.

OCCUPANCY CALCULATION PER IMC 2018 TABLE 403.3.1.1

Table showing occupancy calculations for Office, Kitchen, Service Area, and Order, totaling 22 people.

VENTILATION REQUIREMENTS PER IMC 2018 TABLE 403.3.1.1

Table showing ventilation requirements for Office, Kitchen, Service Area, and Order, including outside air required and exhaust air calculations.

GENERAL NOTES

- A. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET. PAY SPECIAL ATTENTION TO THE RESPONSIBILITY SCHEDULE. WORK DESIGNATED ON SCHEDULE SHALL BE CONSIDERED INCLUDED IN YOUR SCOPE OF WORK AND CONTRACT AMOUNT.
- B. CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS AND SCHEDULES. IF DIFFERENT NOTIFY ARCHITECT/ENGINEER BEFORE BIDDING, ORDERING, OR PROCEEDING WITH WORK.
- C. DRAWINGS/DETAILS ARE TO BE CONSIDERED DIAGRAMMATIC. NOT NECESSARILY SHOWING IN DETAIL OR TO SCALE ALL MINOR ITEMS. UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE STRUCTURAL, ARCHITECTURAL AND SITE CONDITIONS SHALL GOVERN EXACT LOCATIONS. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK, AND CHECK/COORDINATE DRAWINGS OF ALL TRADES.
- D. COORDINATE WITH THE WORK OF OTHERS SECTIONS. EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISERS AND DRIPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
- E. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- F. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
- G. USE OF COMBUSTIBLE MATERIALS IS NOT ALLOWED IN THE RETURN AIR PLENUM. MATERIALS USED IN THE PLENUM SHALL HAVE FLAME SPREAD RATING NOT TO EXCEED 25, AND SMOKE DEVELOPED RATING NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. ALL EXPOSED WIRING IN THE PLENUM SHALL BE PLENUM RATED.
- H. VERIFY LOCATION OF PERMISSIBLE NEW STRUCTURAL ROOF PENETRATIONS AND ADAPT THE REQUIRED DUCTS ACCORDINGLY. THE OPENINGS MUST BE LOCATED USING A REBAR LOCATOR, TRYING TO LEAVE A TRANSVERSE BAR WITHIN 4" FROM THE OPENING. LOCATE OPENINGS AT MID-DISTANCE BETWEEN THE STEMS OF THE DOUBLE TEE AND LONGITUDINAL REINFORCEMENT SHALL NEVER BE CUT. CALL THE ARCHITECT'S OFFICE IN CASE OF UNEXPECTED DIFFICULTIES.
- I. ALL RECTANGULAR DUCTS OVER CEILINGS MAY BE SHEET METAL WITH EXTERNAL INSULATION AND ALL EXPOSED ROUND DUCTS SHALL HAVE INTERNAL INSULATION. ALL ROUND EXPOSED DUCTS WILL BE SPIRAL GALVANIZED AND READY FOR PAINTING.
- J. G.C. SHALL CONTRACT LANDLORD-APPROVED ROOFING CONTRACTOR TO FLASH AND SEAL ALL ROOF PENETRATIONS TO MAINTAIN ROOFING WARRANTY.
- K. IF APPLICABLE CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR KITCHEN VENTILATION SYSTEM INCLUDING TYPE 1 HOOD AND FOR THE WALK-IN COOLER & FREEZER.
- L. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- M. CONSTRUCTION 'AS BUILT' DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE AND PROVIDE COPY TO LL.
- N. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER.

Table with columns: NO., DATE, ISSUE DESCRIPTION.

Nearby Engineers

382 NE 191st St, Suite 49674,
Miami, FL 33179

NY ENGINEERS

SUNRIGHT STUDIOS-SEATTLE

HVAC NOTES & SCHEDULES

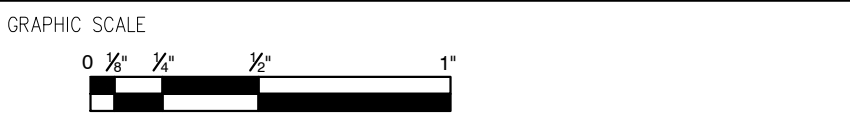
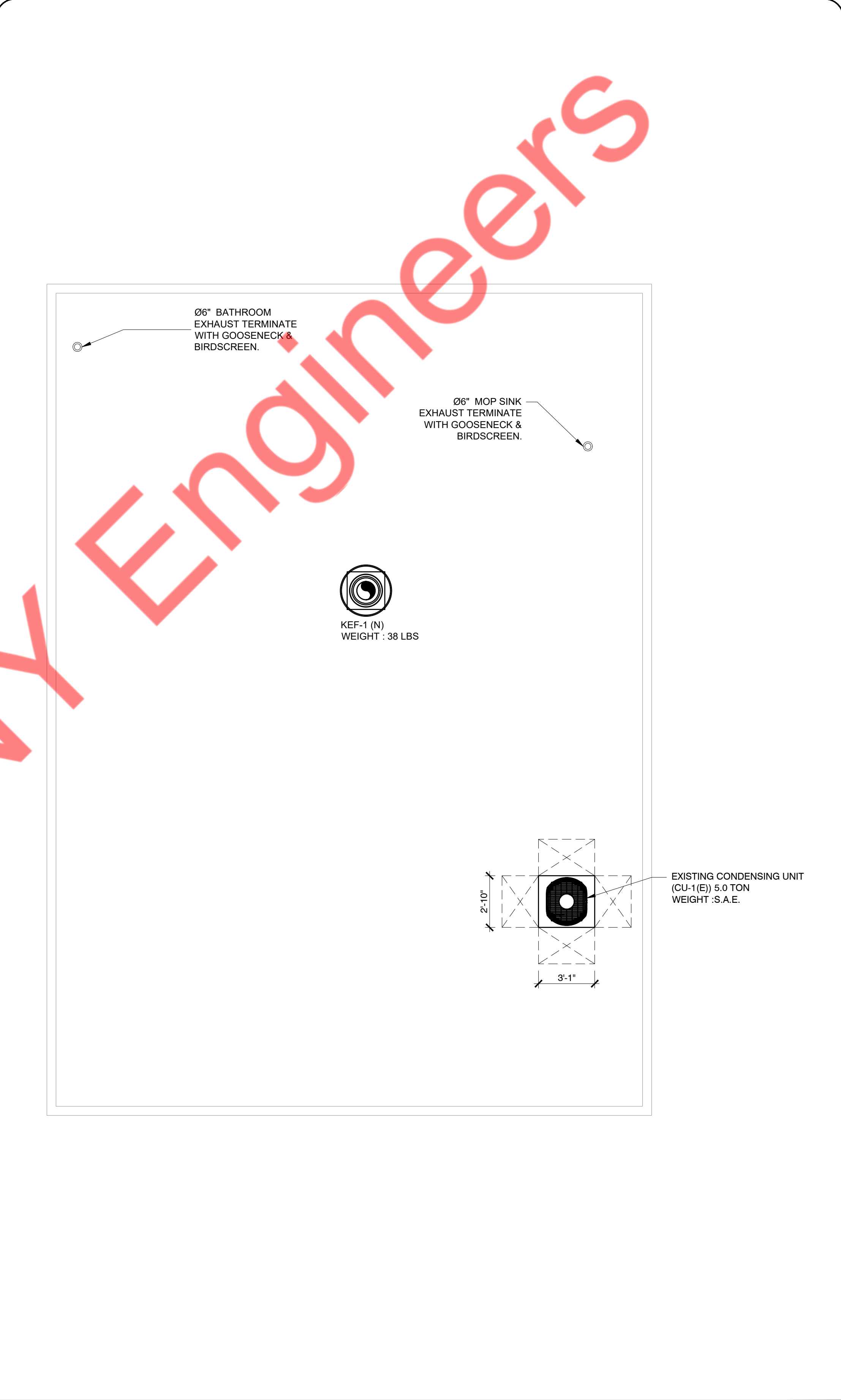
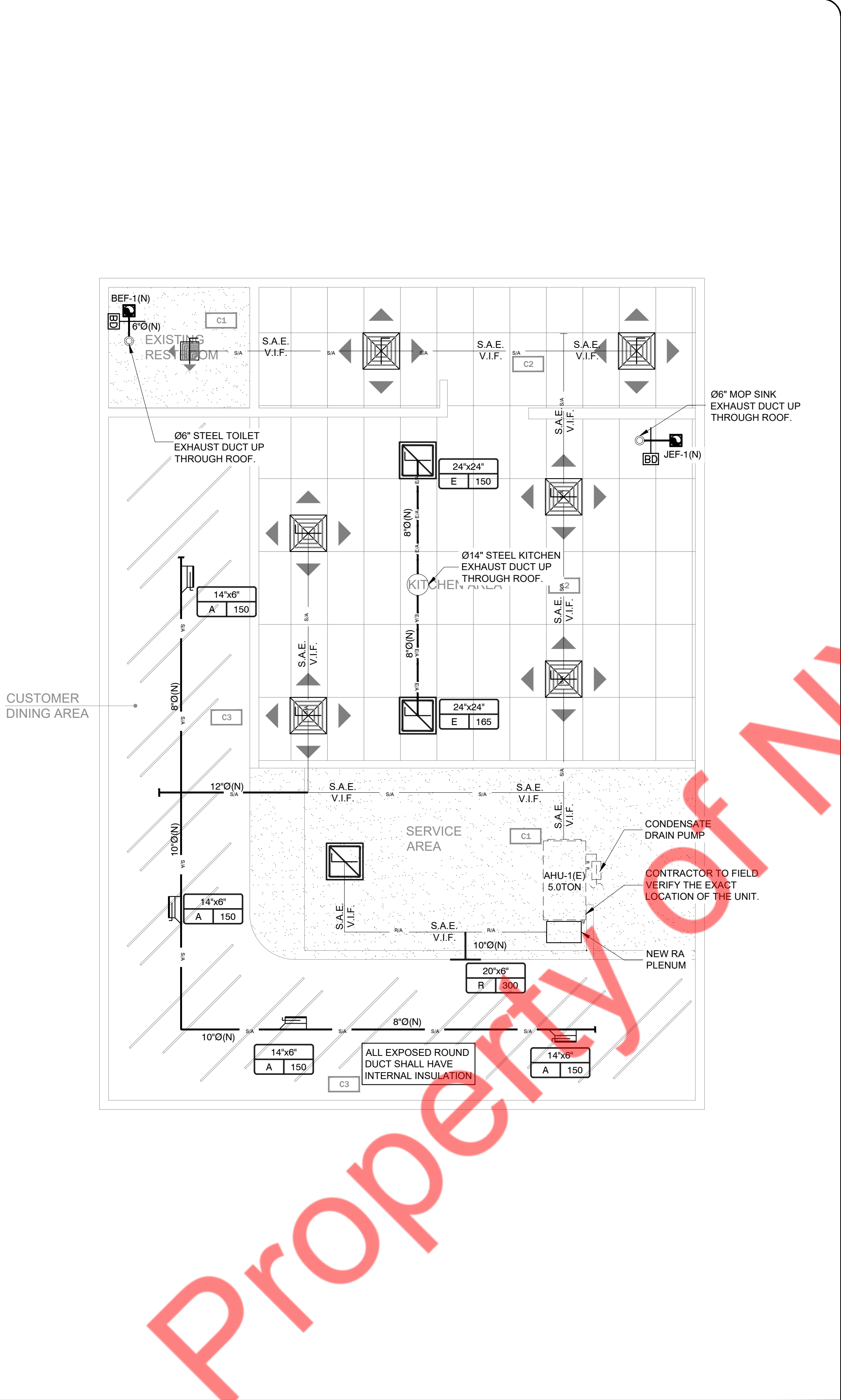


Table with columns: SEAL, PROJECT NO., SCALE (AS NOTED), DRAWN BY, CHECKED BY, DATE, SHEET NUMBER (M1).

Property of NY Engineers



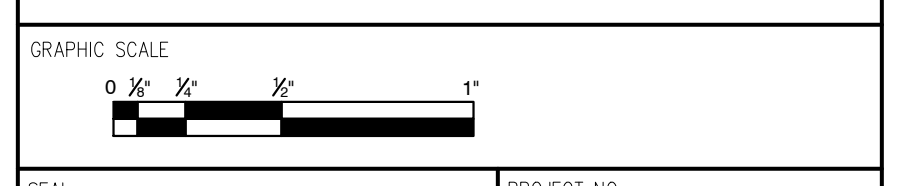
NO.	DATE	ISSUE DESCRIPTION

Nearby Engineers
382 NE 191st St, Suite 49674,
Miami, FL 33179
NY ENGINEERS

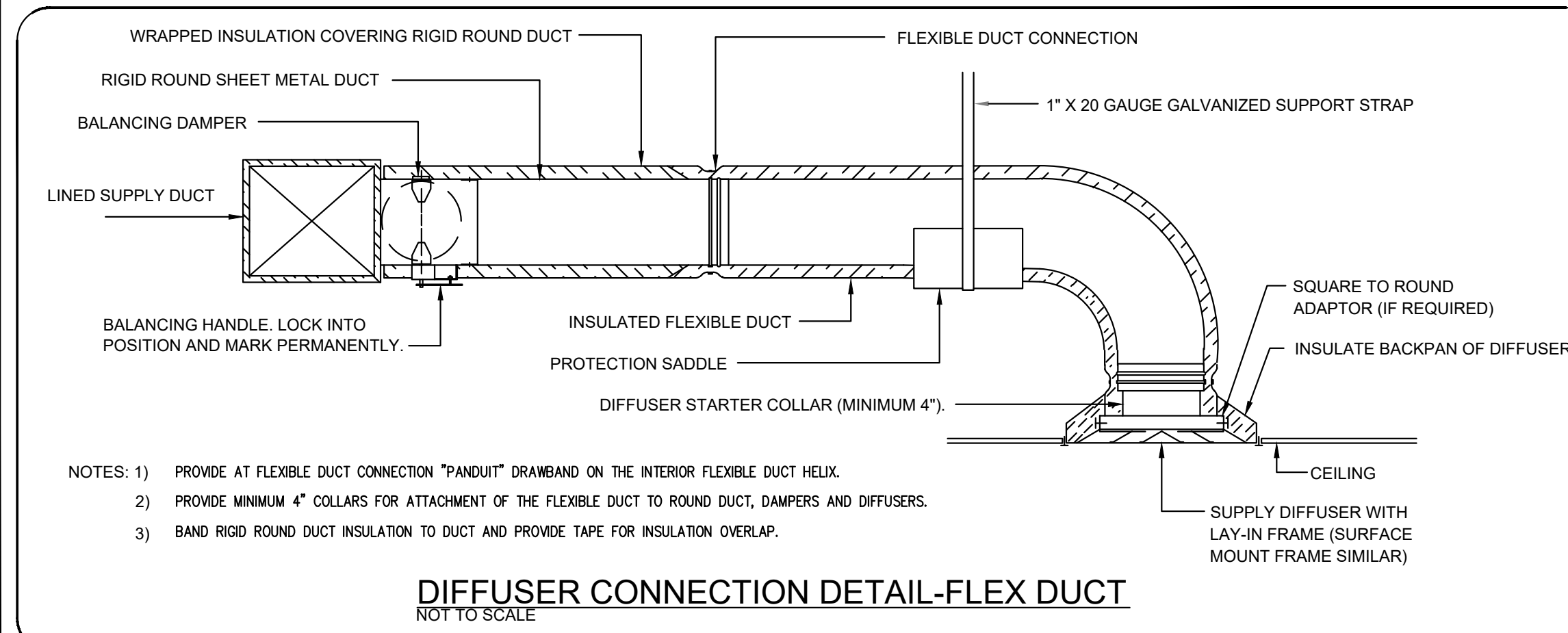
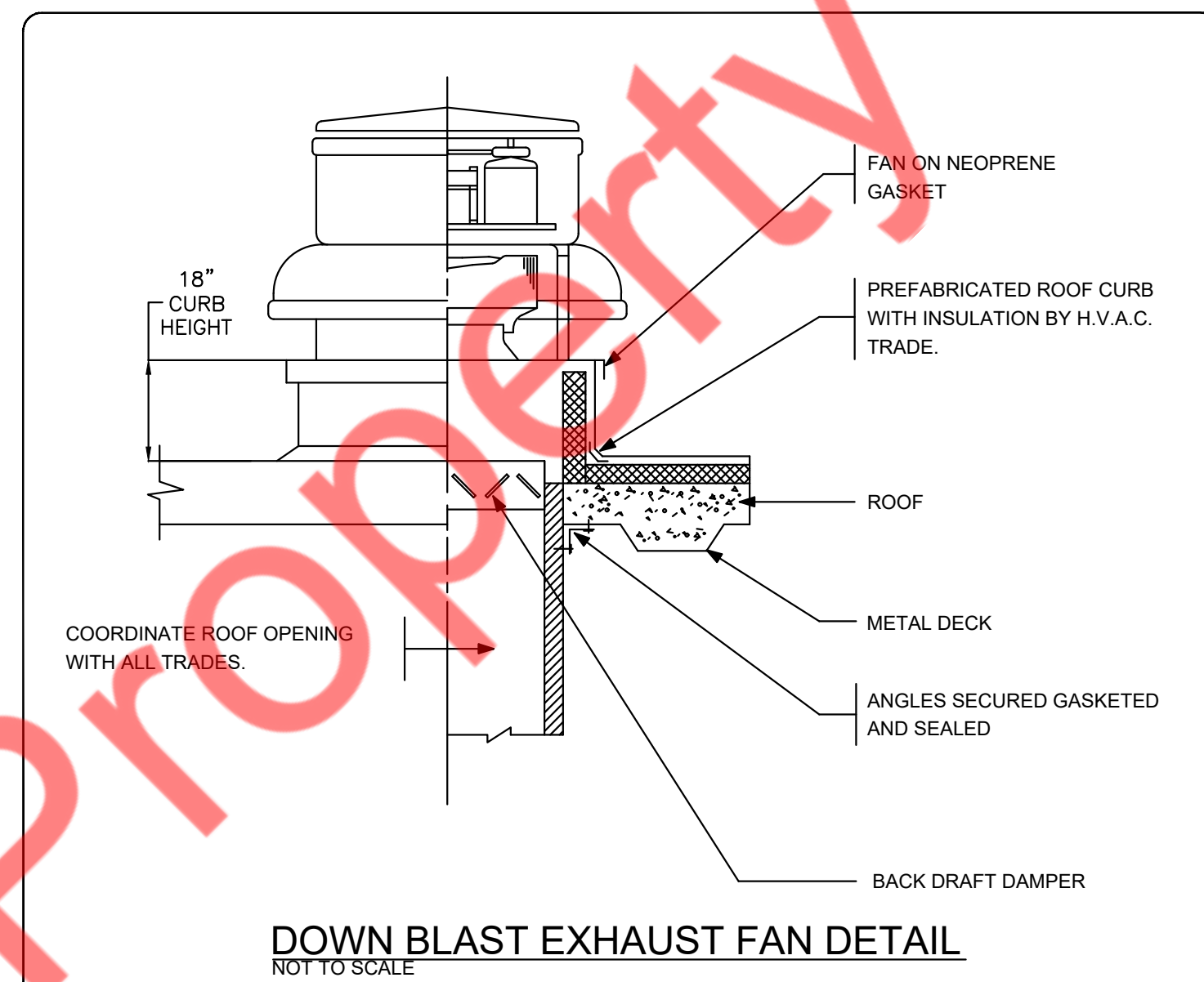
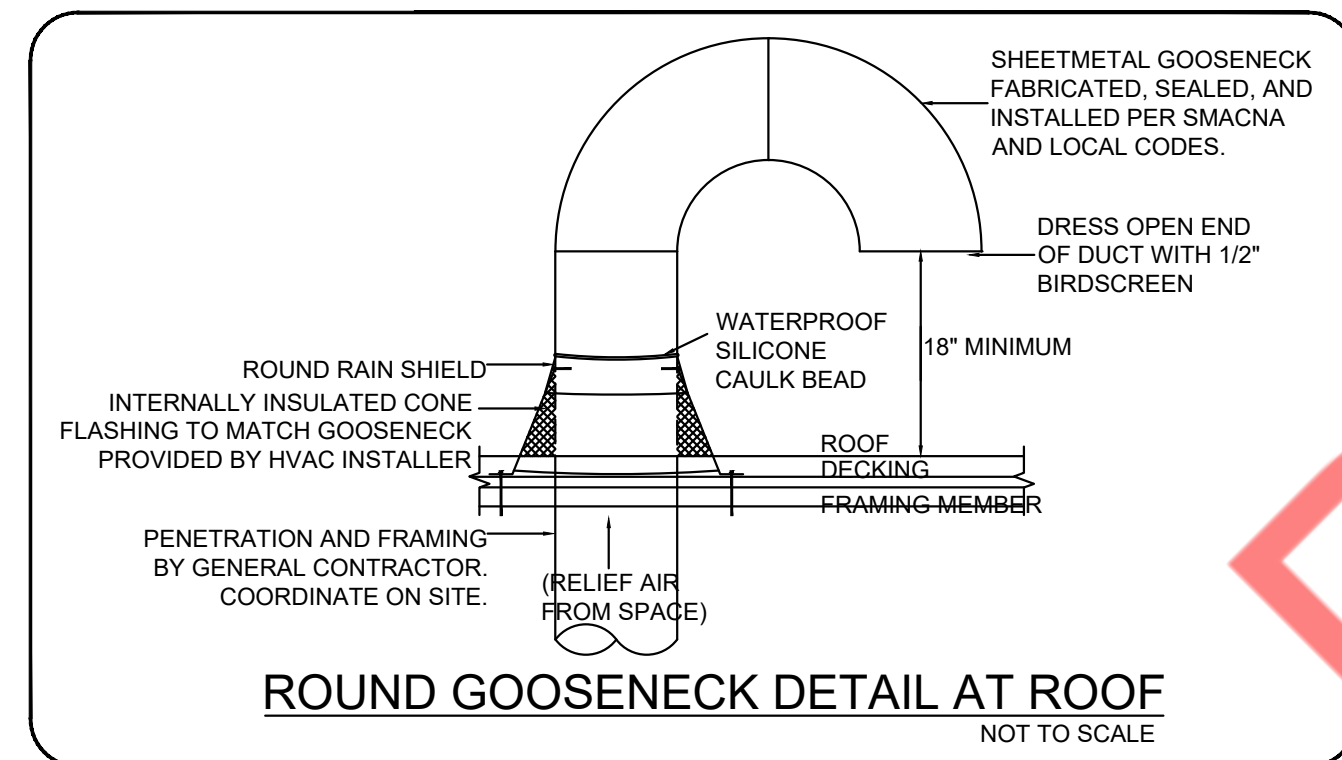
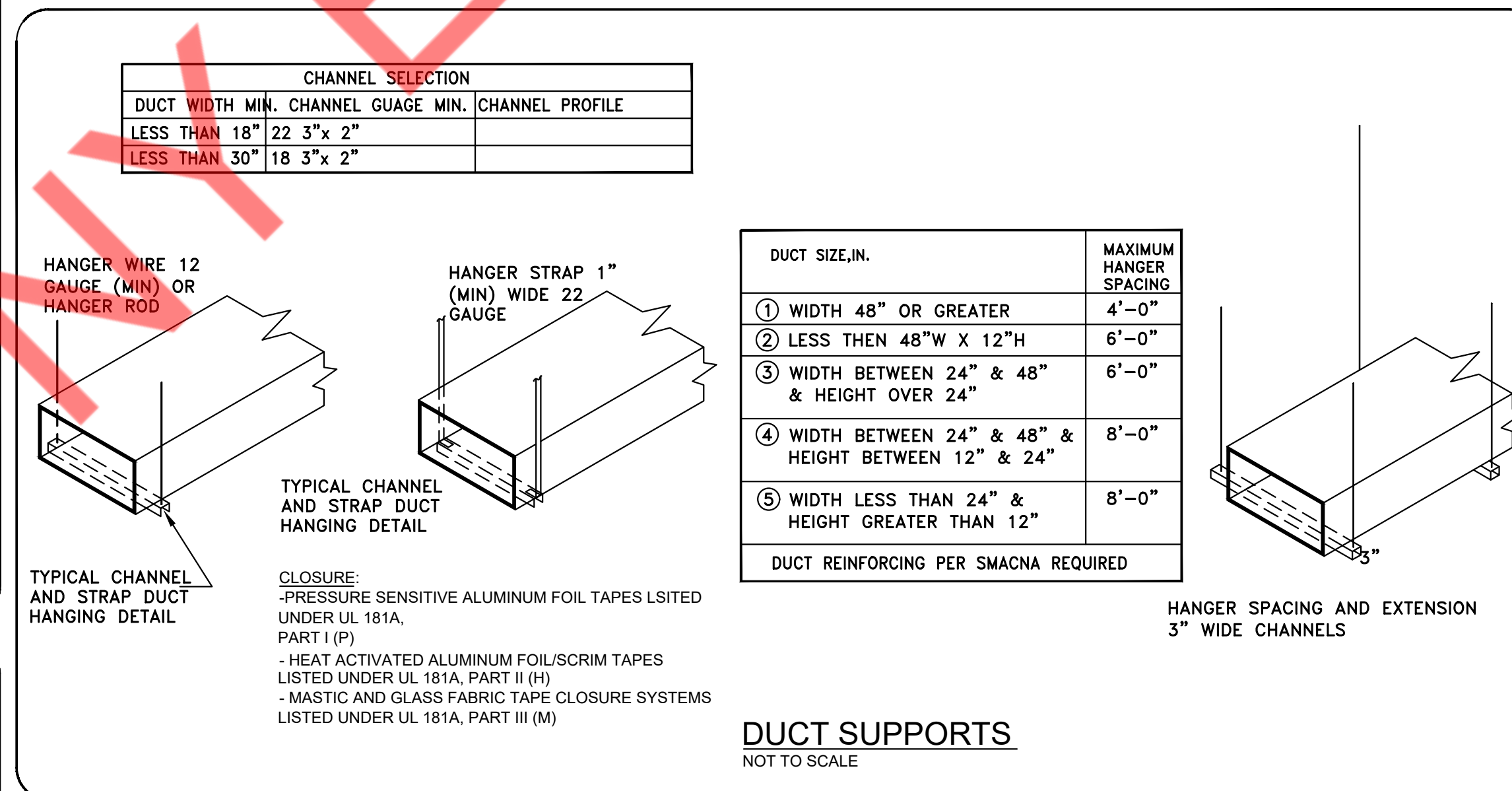
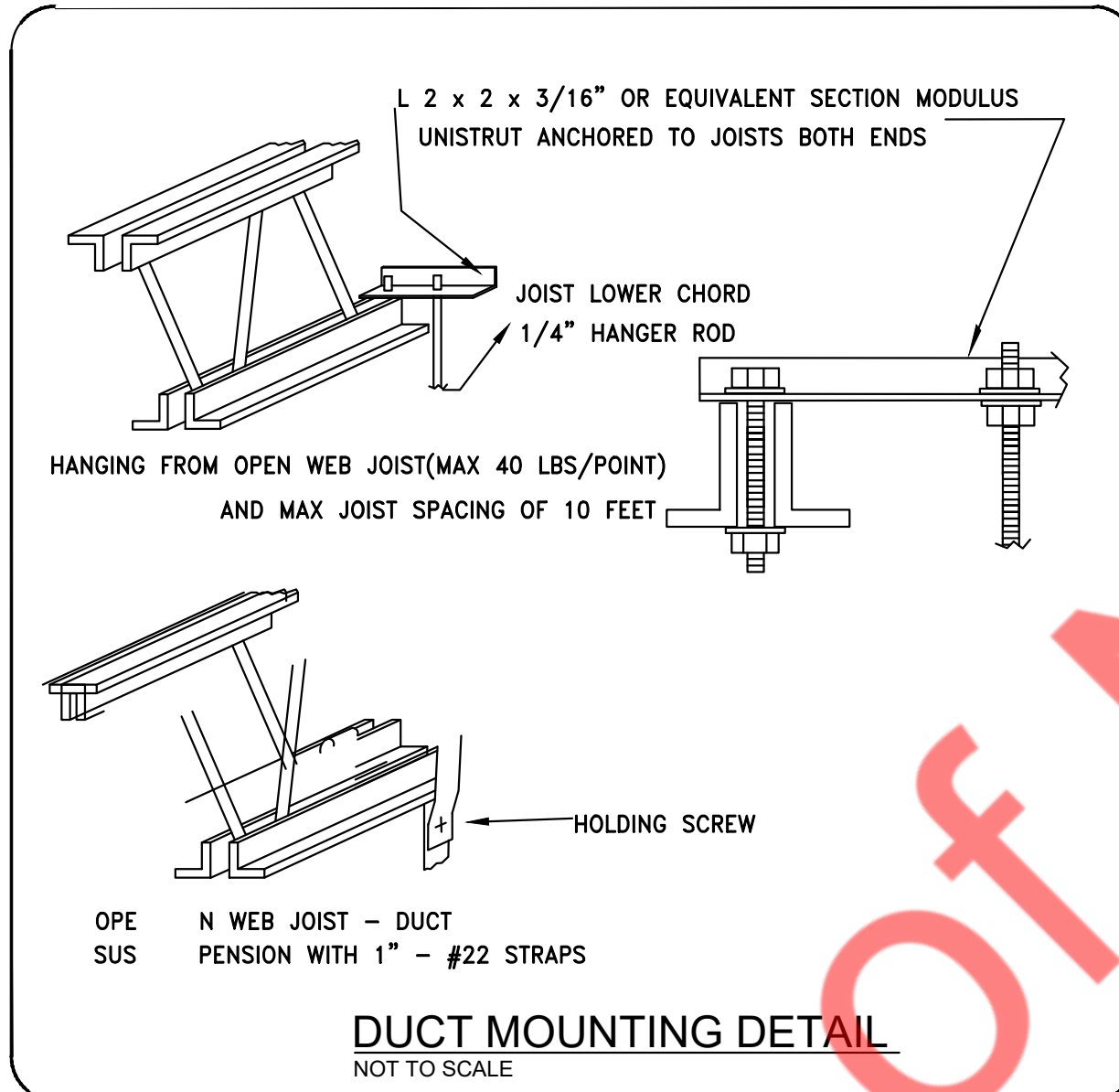
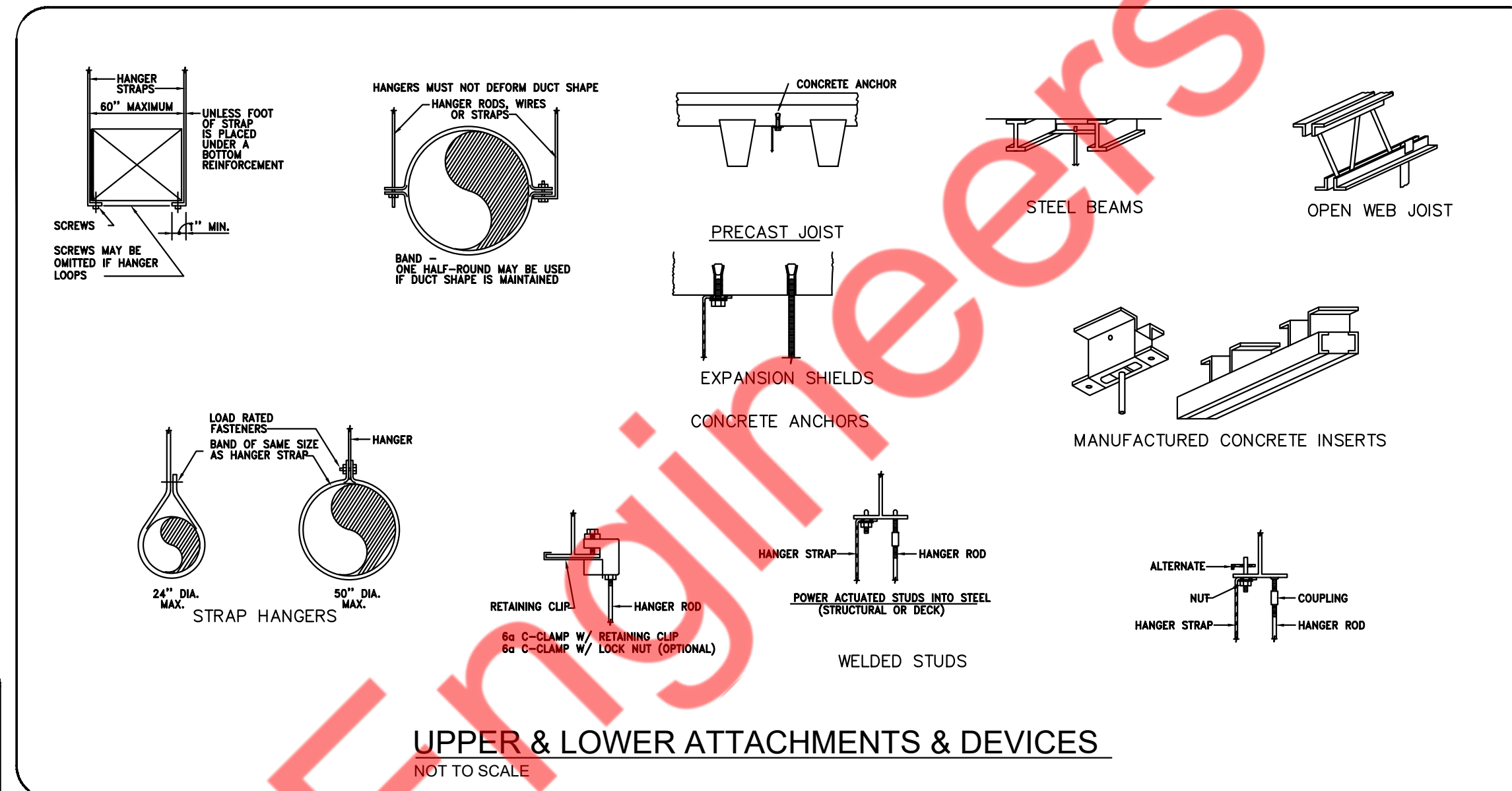
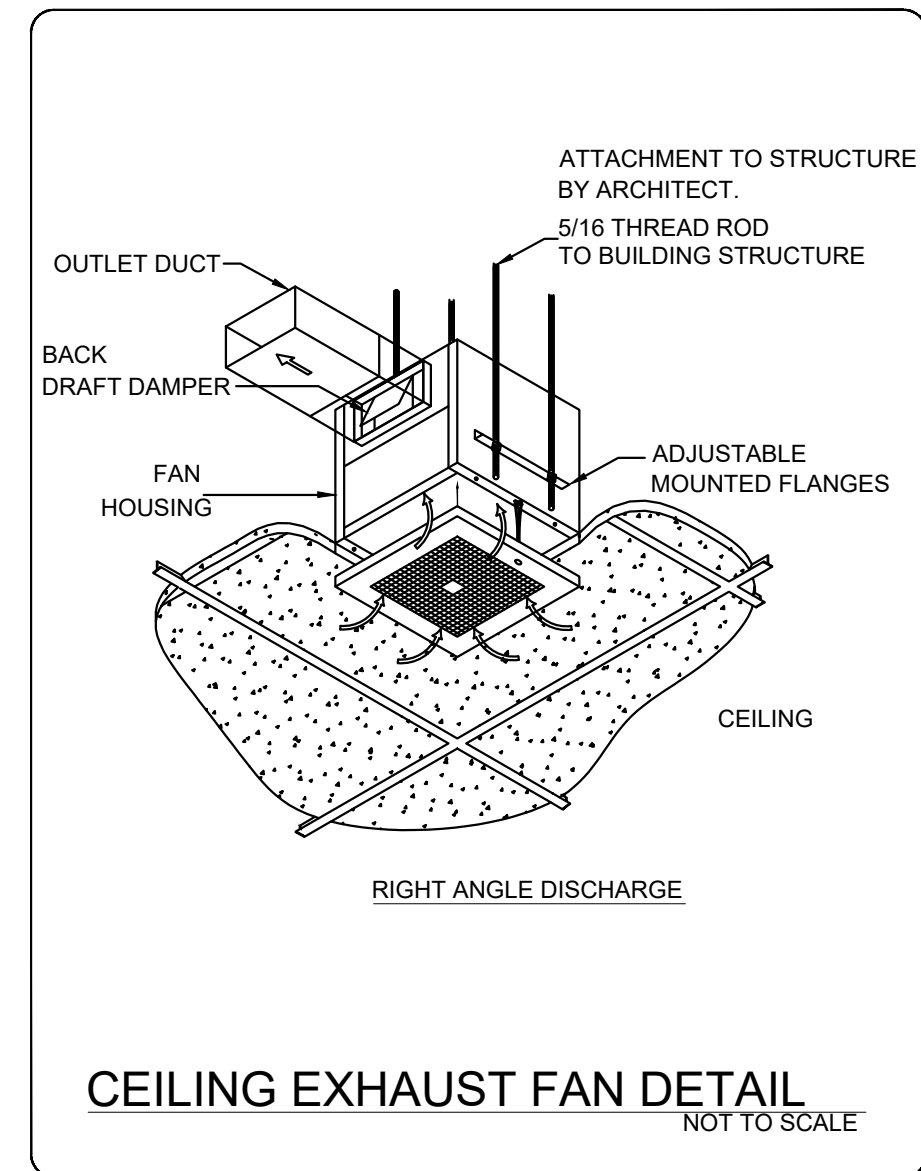
PROJECT NAME:
**SUNRIGHT
STUDIOS-SEATTLE**

PHYSICAL LOCATION:

DRAWING TITLE:
**HVAC FLOOR
& ROOF PLANS**



SEAL	PROJECT NO.
	SCALE AS NOTED
	DRAWN BY
	CHECKED BY
	DATE
	SHEET NUMBER
	M2



NO. DATE ISSUE DESCRIPTION

Nearby Engineers

382 NE 191st St, Suite 49674,
Miami, FL 33179

NY ENGINEERS

PROJECT NAME

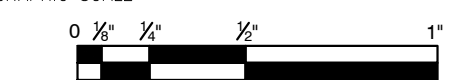
**SUNRIGHT
STUDIOS-SEATTLE**

PHYSICAL LOCATION

DRAWING TITLE

HVAC DETAILS

GRAPHIC SCALE



SEAL

PROJECT NO.

SCALE AS NOTED

DRAWN BY

CHECKED BY

DATE

SHEET NUMBER

M3

SCOPE OF WORK

USE THE EXISTING 200A, 120/208V, 3-PHASE, 4 WIRE ELECTRICAL SERVICE, REUSE EXISTING ELECTRICAL METER AND DISCONNECT SWITCH AND EXISTING (1) 200 A(MLO), 120/208V, 3-PHASE ELECTRICAL PANEL "A", PROVIDE NEW (1) 125A(MLO), 120/208V, 3-PHASE ELECTRICAL PANEL "B" FOR THE PROPOSED SPACE. ALL NECESSARY EQUIPMENT, WIRING AND LIGHTING FOR THE PROPOSED SPACE INCLUDING WIRING FOR VENTILATION EQUIPMENT. COORDINATE WITH G.C FOR LOW VOLTAGE WIRING.

GENERAL NOTES

- ELECTRICAL CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THIS SET.
- CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS AND SCHEDULES. IF DIFFERENT, NOTIFY ARCHITECT/ENGINEER BEFORE BIDDING, ORDERING, OR PROCEEDING WITH WORK.
- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL OWNER HAS DIRECTED CORRECTIVE ACTION TO BE TAKEN.
- ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. EXISTING CONDITIONS OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING HIS BID.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRIC CODE AND ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
- DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATION FOR EXACT LOCATION FOR ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE.
- ALL ELECTRICAL NOT BEING REUSED MUST BE REMOVED IN ITS ENTIRETY.
- ALL CONDUIT IN OR UNDERGROUND OR IN CONCRETE MUST BE RIGID GALVANIZED STEEL.
- CIRCUIT BREAKERS AND PANELS TO BE BOLT ON TYPE.
- ALL EQUIPMENT SHALL BE APPROVED BY UL OR OTHER NATIONALLY RECOGNIZED TESTING COMPANY.
- ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY NEC 250.146
- SUBMIT SERVICE ENTRANCE EQUIPMENT FOR SEPARATE APPROVAL.
- ALL LOW VOLTAGE MUST BE IN CONDUIT TO ABOVE THE DROP CEILING. BRIDAL RINGS OR "J" HOOKS REQUIRED.
- SEPARATE PERMITS ARE REQUIRED FOR ALL LOW VOLTAGE SUCH AS TELEPHONE, DATA, THERMOSTAT, MUSIC, ALARMS ETC.
- SEPARATE PERMIT REQUIRED FOR SIGNAGE.
- PRIOR TO ANY CONSTRUCTION WORK BEGINNING AN ON-SITE MEETING WITH GENERAL CONTRACTORS IS REQUIRED.
- ELECTRICIAN MUST BE ON SITE FOR ALL INSPECTIONS.
- MINIMUM WIRE SIZE SHALL BE #12 AWG EXCLUDING CONTROL WIRING. ALL CONDUCTORS SHALL BE COPPER AND UNLESS OTHERWISE NOTED THIN INSULATION.
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, PLASTIC AND CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE N.E.C. OR LOCAL CODES.
- ALL NEW MATERIALS SHALL BEAR UNDERWRITERS' LABELS.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE THAT CERTIFICATE OF OCCUPANCY IS ISSUED. WARRANTY SHALL BE PROVIDED IN WRITING. PROVIDE COPY TO LL.
- CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT.
- THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES.
- CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.
- ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE CIRCUIT BREAKERS.
- PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, DEVICES, ETC. FOR ALL OUTLETS AS INDICATED.
- MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF N.E.C., NEMA, AND IECE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND FIRED CAULKING REQUIRED OF HIS WORK.
- ELECTRICAL CONTROL PANEL ROOMS SHALL BE MARKED WITH A PLAINLY VISIBLE AND LEGIBLE SIGN STATING ELECTRIC ROOM IF APPLICABLE. ALL CIRCUIT BREAKERS WITHIN THE ELECTRIC PANEL SHALL BE LABELED FOR THEIR INTENDED USE. CIRCUIT BREAKERS THAT POWER EXIT SIGNS, EMERGENCY LIGHTING SHALL BE LABELED.
- ALL ELECTRICAL AND COMMUNICATIONS OUTLETS TO BE AT 24" A.F.F. UNLESS NOTED OTHERWISE, AND VERTICALLY MOUNTED.
- ALL LIGHT SWITCHES TO BE AT 42" A.F.F.
- ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL ELECTRICAL WIRING FOR HVAC SYSTEM INCLUDING CONTROLS, THERMOSTATS, POWER, ETC. SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- BREAKER AND PANELS -- ALL CURRENT CARRYING BUSSES SHALL BE COPPER. ALL GROUND BUS BARS SHALL BE COPPER. PANEL BOARD ENCLOSURES SHALL BE FURNISHED WITHOUT PRE-PUNCHED CONCENTRIC HOLES. A.I.C. RATINGS SHALL BE AS INDICATED ON PANEL BOARD SCHEDULES.
- DISCONNECT SWITCHES SHALL BE H.P.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK ENCLOSURES AS REQUIRED BY EXPOSURE.
- MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC, WITH OVERLOAD RELAYS IN EACH HOT LEG.
- THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS INDICATES THE CONTRACT SHALL FURNISH AND INSTALL.
- CONTRACTOR SHALL CONFIRM WITH ANY AND ALL REQUIREMENTS SUCH AS: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, TRANSFORMER SIZE, SCHEDULED DOWN TIME FOR OWNERS CONFIRMATION, ETC. ANY CONFLICTS SHALL BE BROUGHT TO ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.
- VOLTAGE DROP FOR ALL BRANCH CONDUCTORS SHALL NOT EXCEED 3%. WHERE VOLTAGE DROP EXCEEDS 3%, CONTRACTOR SHALL INCREASE SIZE OF CONDUCTORS.
- CONTRACTOR SHALL PROVIDE GFI TYPE BREAKER FOR ALL EXTERIOR 120V CIRCUITS OR GFI PROTECTION -- FOR THE WHOLE CIRCUIT.
- GAS PIPING SHALL BE BONDED.
- ELECTRICAL CONTRACTOR SHALL COORDINATE SERVICE ENTRY WITH SERVICE PROVIDER PRIOR TO DETERMINING EXACT LOCATION OF THE METER BOX IN ORDER TO AVOID DISCREPANCIES BETWEEN DRAWINGS AND JOB CONDITIONS.
- ALL OUTDOOR EQUIPMENT SHALL BE WEATHERPROOF.
- CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 90 DAYS AFTER THE DATE OF ACCEPTANCE. PROVIDE A COPY TO LL.
- OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND FIRE CAULKING REQUIRED OF HIS WORK.
- ABSOLUTELY NO FLEXIBLE CONDUIT IS PERMITTED IN DEMISING WALLS. FLEXIBLE CONDUIT IS PERMITTED FOR SHORT FINAL CONNECTIONS ONLY (6'-0" OR LESS) ACCORDING TO SECTION 348.20.
- EXPOSED CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES, PARALLEL OR IN RIGHT ANGLES TO THE BUILDING STRUCTURE. DO NOT LOOP EXCESS FLEXIBLE CONDUIT IN CEILING SPACE OR WALL CAVITY. NO CONDUIT TO BE SUPPORTED FROM THE ROOF DECK.
- CABLE TYPES AC AND NM CABLES ARE NOT ACCEPTABLE. TYPE MC CABLE, ELECTRIC METALLIC TUBING (EMT) AND RIGID GALVANIZED CONDUIT ARE PERMITTED.
- ALL EQUIPMENT, DEVICES AND FIXTURES SHALL BE GROUNDED IN COMPLIANCE WITH NEC AND UL REQUIREMENTS.
- ALL PANELS TO BE UL LABELED WITH BOLT-ON TYPE CIRCUIT BREAKERS.
- 7-DAY 24-HOUR TIME CLOCK IS REQUIRED TO CONTROL STOREFRONT ENTRY LIGHTS, SHOW WINDOW LIGHTS, SHOW WINDOW RECEPTACLES AND STOREFRONT SIGNAGE. ILLUMINATED STOREFRONT SIGNS MUST REMAIN LIT DURING ALL MALL BUSINESS HOURS.
- TENANT IS REQUIRED TO MAKE A FIELD SURVEY OF THE EXISTING ELECTRICAL SERVICE TO ENSURE THAT THE TOTAL CONNECTED LOAD DOES NOT EXCEED THE ELECTRIC SERVICE. ANYALL MODIFICATIONS OR UPGRADES NEEDED ARE SUBJECT TO LANDLORD'S PRIOR APPROVAL AND WILL BE COMPLETED BY TENANT/TENANT'S GC AT TENANT'S SOLE EXPENSE.
- ALL ELECTRICAL PANELS TO BE MOUNTED ON PLYWOOD BACKER BOARD.
- PANEL PHASE LOADS TO BE BALANCED WITHIN 10%.
- ALL CONDUITS RUNNING INSIDE THE SPACE SHALL BE ELECTRIC METALLIC TUBING (E.M.T.) AS PER NEW LENOX LOCAL AMENDMENTS.

LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLT	LAMP TYPE	WATTS PER LAMP	MOUNTING
⊙	LT-1	LED RECESSED	TBD	NA	120	LED LAMP	30	RECESSED
⊙	LT-2	LED RECESSED	TBD	NA	120	LED LAMP	50	RECESSED
⊙	LT-3	SUSPENDED LED LIGHT	TBD	NA	120	LED LAMP	30	CEILING SUSPENDED
⊙	LT-4	SUSPENDED LED LIGHT	TBD	NA	120	LED LAMP	30	CEILING SUSPENDED
⊗	X1	EXIT/EMERGENCY SIGNS	BEST LIGHTING PRODUCT	LEDCADXR-10-W/B	120	LED	5	WALL
↔	Y1	EMERGENCY LIGHTS	BEST LIGHTING PRODUCT	CAXTEU-2-R-WB-EM	120	LED	5	WALL
⊕	DS	DIMMER WALL SWITCH	COMMERCIAL LIGHTING INDUSTRIES	CLI-NAROSDS	120			WALL
⊕	T	TIMER WALL SWITCH	LEVITON	6124	120			WALL
⊕	OS	OCCUPANCY WALL SWITCH	LEVITON	ODS10	120			WALL
⊙		CEILING OCCUPANCY SENSOR	LEVITON	O2C10-UDW	120			CEILING
⊙	PC	PHOTO CELL	LUTRON	EC-DIR-WH	120			CEILING

REFER TO SHEET A-2 - REFLECTED CEILING PLAN IN ARCHITECTURAL DRAWINGS FOR MORE INFORMATION ON COLORS AND TRIMS REQUIRED

REFER TO CS-5 FOR VENDORS INFORMATION

(*) EXISTING FIXTURES ARE ACCEPTABLE. IF THEY NEED TO BE REPLACED, REPLACE W/ EXACT MATCH OR MATCH SCHEDULE

SUBSTITUTIONS TO THE ABOVE FIXTURE SCHEDULE MUST BE SUBMITTED 14 DAYS PRIOR TO BID & REVIEWED BY THE ARCHITECT, ENGINEER & OWNER. SUBSTITUTIONS WILL NOT BE REVIEWED AFTER THIS TIME. SUBMITTAL PACKAGES MUST INCLUDE COLOR, CUT SHEETS, ALL PHOTOMETRICS & FIXTURE SAMPLES FOR ALL DECORATIVE FIXTURES, LANDSCAPE FIXTURES & OUTDOOR FIXTURES. WITHOUT THIS INFORMATION NO REVIEW WILL BE PROVIDED.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
⊕	EXHAUST FAN
⊕	COMBINATION EXHAUST FAN/LIGHT (REFER TO MECHANICAL PLANS)
⊕	SPEAKERS @ CEILING
⊕	JUNCTION BOX
⊕	CEILING MOUNTED SMOKE DETECTOR 110V, INTERCONNECTED W/ BATT. BACKUP. SMOKE DETECTOR SHALL COMPLY WITH NFPA 72, AND FBC 905.2.
⊕	BATTERY BACK UP EXIT LIGHT
↔	BATTERY BACK UP EMERGENCY LIGHT
⊕	WALL SWITCH (SINGLE, DOUBLE,)
⊕	WALL SWITCH (3 WAY, 4 WAY)
⊕	WALL SWITCH (TIMER)
⊕	OCCUPANCY SENSOR WALL SWITCH
⊕	CEILING MOUNTED OCCUPANCY SENSOR
⊕	DUPLEX RECEPTACLE
⊕	DUPLEX RECEPTACLE, 46" TO AFF AT KITCHEN, BATHS AND TOPS
⊕	230 VOLT RECEPTACLE
⊕	QUADRUPLEX RECEPTACLE
⊕	ABOVE COUNTER DUPLEX RECEPTACLE
⊕	ELECTRICAL PANEL
⊕	TELEVISION OUTLET
⊕	TELEPHONE OUTLET
⊕	TELEPHONE/DATA OUTLET
⊕	DATA OUTLET
⊕	30A/240V NON FUSED DISCONNECT SWITCH
⊕	60A/240V NON FUSED DISCONNECT SWITCH
⊕	MANUAL MOTOR SWITCH

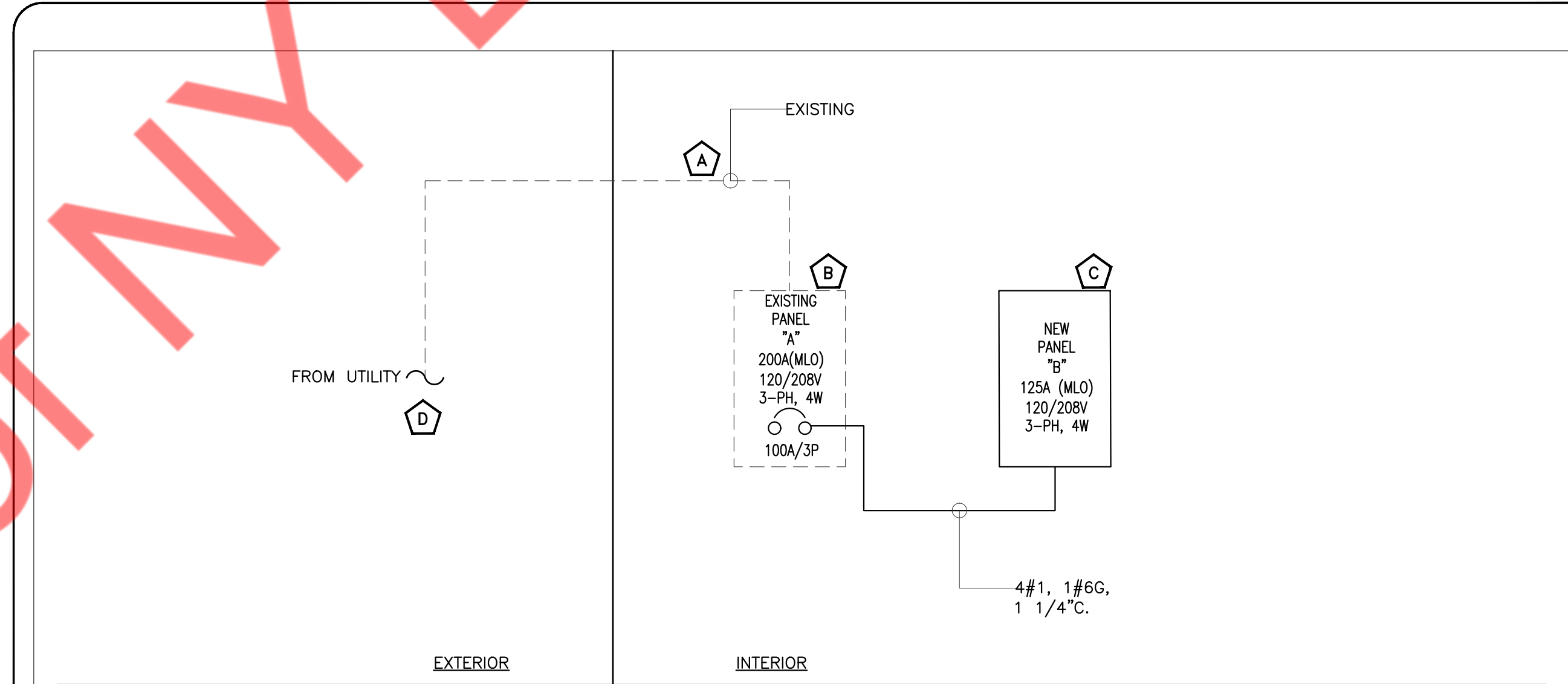
ABBREVIATIONS:

ABOVE FINISH FLOOR= A.F.F. BELOW COUNTER= BC
 COUNTER TOP LEVEL= C PUSH BUTTON= PB
 GROUND FAULT INTERRUPTER= GFCI UNDER CABINET= UC
 VERIFY PRIOR TO INSTALL= VH VAPOR PROOF= VP
 WEATHER PROOF= WP SALVAGED = S

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.

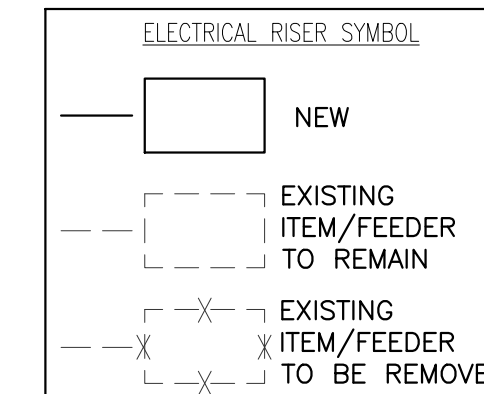
- 2018 INTERNATIONAL BUILDING CODE.
- 2018 INTERNATIONAL PLUMBING CODE.
- 2018 INTERNATIONAL MECHANICAL CODE.
- 2018 WASHINGTON STATE ENERGY CODE.
- 2018 INTERNATIONAL FUEL & GAS CODE.
- NATIONAL ELECTRIC CODE(NEC), 2020 EDITION



- RISER DIAGRAM KEYED WORK NOTES**
- A EXISTING ELECTRICAL INCOMING FEEDER FOR THE SPACE SHALL REMAIN. E.C. SHALL VERIFY EXACT SIZE AND OPERABLE CONDITION OF THE EXISTING FEEDER IN FIELD. REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
 - B EXISTING 200A(MLO), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "A" TO REMAIN. E.C. SHALL VERIFY OPERABLE CONDITION AND RATING IN FIELD. REPLACE IF INOPERABLE. BASE BID ACCORDINGLY
 - C NEW 125A(MLO), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "B". E.C. SHALL COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.
 - D EXISTING INCOMING SERVICE FOR THE LEASED SPACE FROM EXISTING ELECTRICAL SWITCHGEAR. E.C. SHALL GET INFORMATION ABOUT THE EXISTING POWER DISTRIBUTION PRIOR TO COMMENCING ANY WORK AND INFORM ENGINEER ON RECORD FOR ANY DISCREPANCIES. BASE BID ACCORDINGLY.

RISER DIAGRAM GENERAL NOTE:

- E.C. SHALL VERIFY INCOMING SERVICE AMPERAGE, WIRE SIZING AND DISTRIBUTION.
- E.C. SHALL VERIFY EXACT POWER DISTRIBUTION ON FIELD AND INFORM ENGINEER FOR ANY DISCREPANCY.



ELECTRICAL RISER SCALE N.T.S. 1

2	02/08/2023	PROJECT COORDINATION	⚠
1	09/14/2022	REVISION 1	

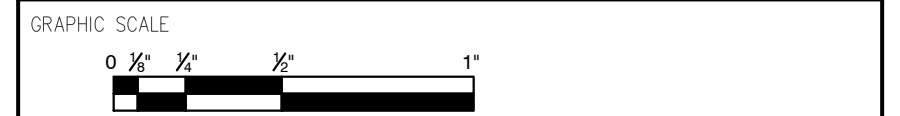
NO.	DATE	ISSUE DESCRIPTION
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Nearby Engineers
 382 NE 191st St, Suite 49674,
 Miami, FL 33179
NY ENGINEERS

PROJECT NAME
SUNRIGHT STUDIOS-SEATTLE

PHYSICAL LOCATION

DRAWING TITLE
ELECTRICAL RISER & GENERAL NOTES



SEAL	PROJECT NO.
SCALE	AS NOTED
DRAWN BY	NYE
CHECKED BY	NYE
DATE	02/08/2023
SHEET NUMBER	E1

ELECTRICAL LIGHTING PLAN GENERAL NOTES:

1. E.C. SHALL COORDINATE WITH THE OWNER FOR THE FINAL LIGHT FIXTURE SELECTION.

ELECTRICAL LIGHTING PLAN KEYED WORK NOTES:

- 1 PROVIDE CEILING MOUNTED RECEPTACLE FOR SHOW WINDOW AS REQUIRED BY CODE. VERIFY WITH LOCAL ENERGY AGENCY. VERIFY EXACT LOCATION WITH ARCHITECT.
- 2 EXTERIOR SIGNAGE. E.C. COORDINATE EXACT POWER REQUIREMENT AND EXACT LOCATION WITH OWNER/LANDLORD.
- 3 CONNECT ALL EMERGENCY EGRESS AND NIGHT LIGHTING FIXTURES TO THE NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS PER STATE AND LOCAL CODES.
- 4 EXHAUST FANS SHALL BE CIRCUITED AND CONTROLLED ALONG WITH EXISTING LIGHT FIXTURES IN THE SAME ROOM.
- 5 JUNCTION BOX FOR THE LED LIGHT STRIP RUNS ALONG THE CLOUDS. E.C. SHALL COORDINATE FOR THE EXACT LOCATION AND POWER REQUIREMENTS.
- 6 COORDINATE EXACT LOCATION OF DIMMER SWITCH BANK WITH OWNER/ARCHITECT.
- 7 LIGHT FIXTURES IN THE DAYLIGHT ZONE SHALL BE CONTROLLED BY PHOTOCELL SENSOR.

ELECTRICAL POWER PLAN GENERAL NOTES:

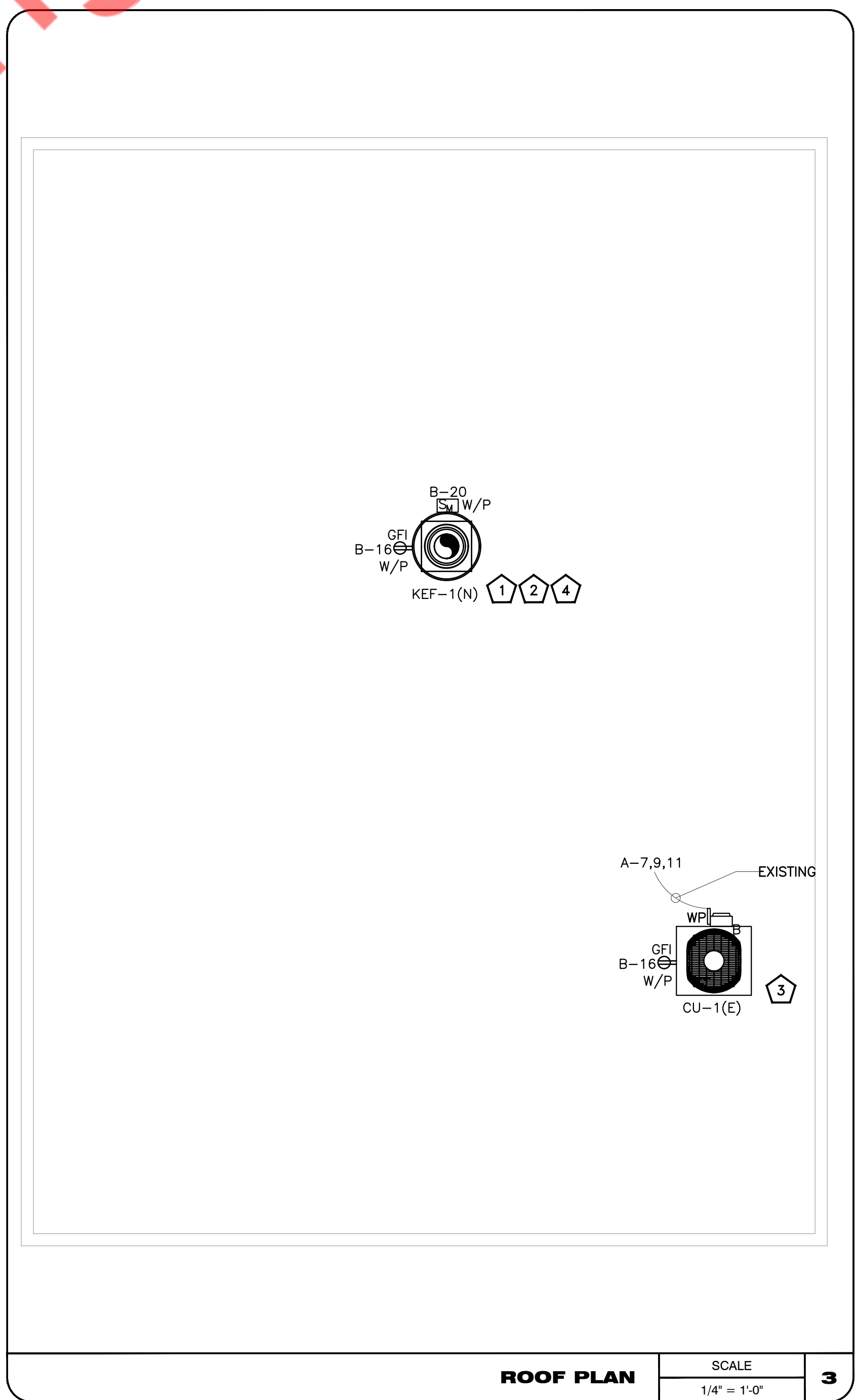
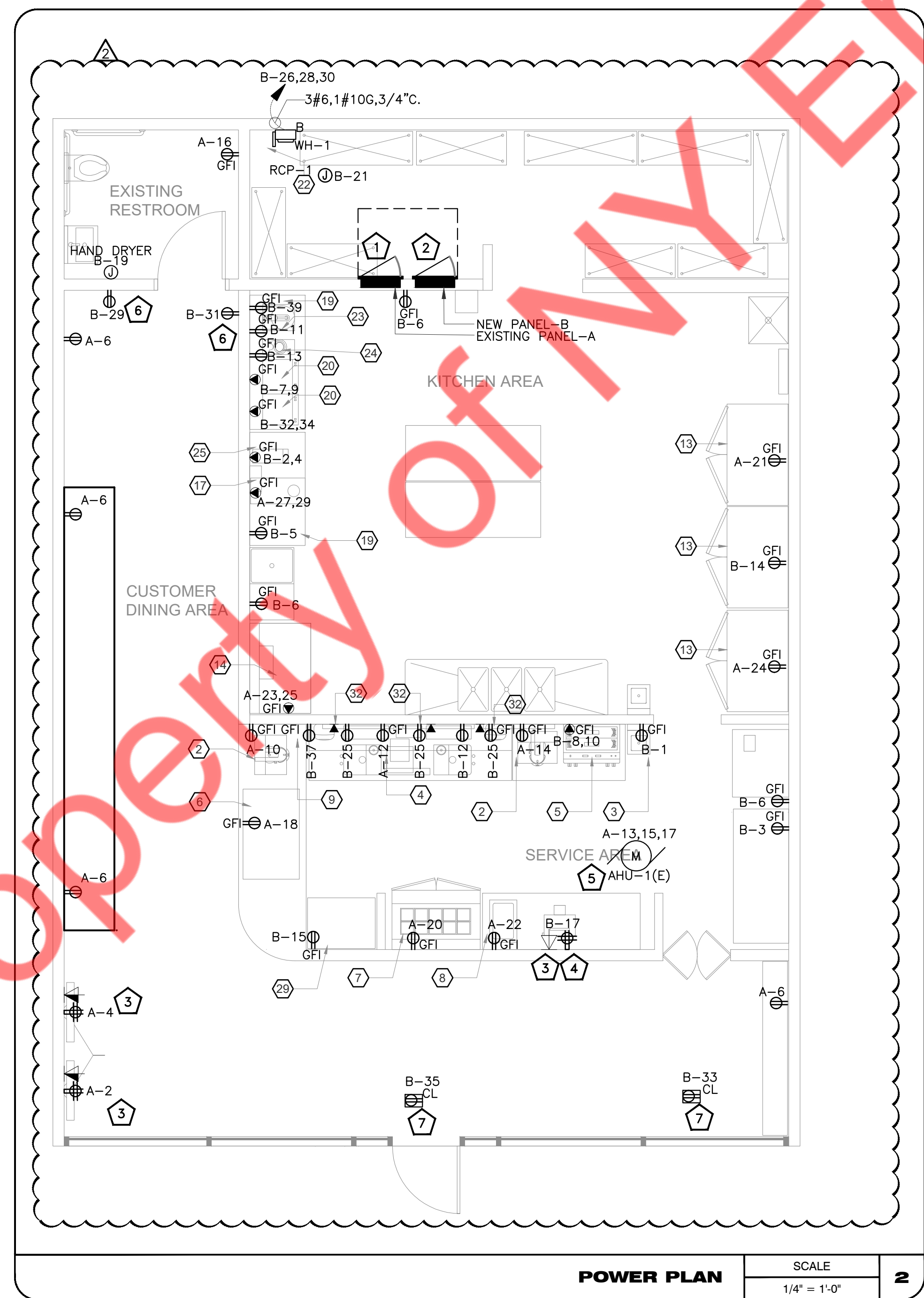
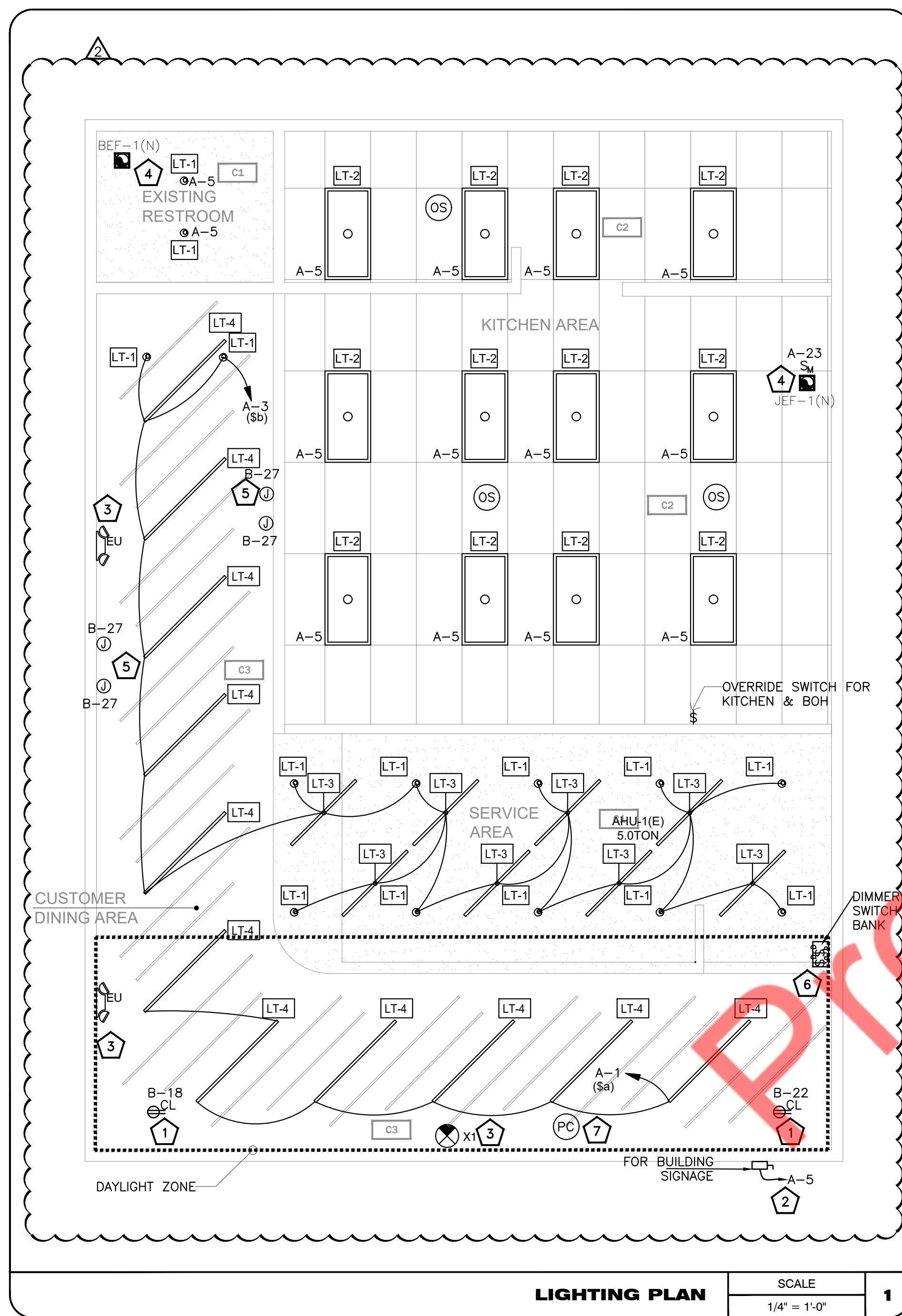
1. E.C. TO COORDINATE ALL RECEPTACLES HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

ELECTRICAL POWER PLAN KEYED WORK NOTES:

- 1 EXISTING 200A (MLO), 120/208V, 3-PHASE ELECTRICAL PANEL "A". E.C. SHALL COORDINATE LOCATION WITH ARCHITECT/OWNER.
- 2 NEW 125A (MLO), 120/208V, 3-PHASE ELECTRICAL PANEL "B". E.C. SHALL COORDINATE LOCATION WITH ARCHITECT/OWNER.
- 3 PROVIDE (1) QUAD RECEPTACLE AND (1) CAT6 DATA CABLE AND CONNECTION FOR EACH KIOSK AND CASH REGISTER. COORDINATE WITH OWNER PRIOR TO ROUGH-IN FOR EXACT HEIGHT.
- 4 COORDINATE WITH OWNER ADDITIONAL POWER AND DATA REQUIREMENTS FOR CASH REGISTER PRIOR COMMENCING WORK.
- 5 EXISTING MECHANICAL UNIT SHALL REMAIN CONNECTED TO THE EXISTING ELECTRICAL PANEL. E.C. TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY REQUIREMENT BASED ON FIELD CONDITION.
- 6 ELECTRICAL RECEPTACLE OUTLET BEHIND THE WALL FOR THE LOGO NEON LIGHT. E.C. SHALL COORDINATE EXACT LOCATION AND POWER REQUIREMENTS. BASE BID ACCORDINGLY.
- 7 PROVIDE CEILING MOUNTED RECEPTACLE FOR LED NEON LIGHT AND OPEN SIGN. VERIFY EXACT LOCATION & POWER REQUIREMENTS. BASE BID ACCORDINGLY.

ELECTRICAL POWER PLAN KEYED WORK NOTES:

- 1 ELECTRICAL CONTRACTOR SHALL COORDINATE FOR EXACT LOCATION OF MECHANICAL EQUIPMENTS WITH MECHANICAL DRAWINGS.
- 2 ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENT FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED. LOCATE AS REQUIRED TO MAINTAIN NEC CLEARANCES.
- 3 EXISTING MECHANICAL UNIT SHALL REMAIN CONNECTED TO THE EXISTING ELECTRICAL PANEL. E.C. TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY REQUIREMENT BASED ON FIELD CONDITION.
- 4 INTERCONNECT EXHAUST FAN KEF-1(N) WITH AHU-1(E). E.C. TO COORDINATE WITH MECHANICAL DRAWINGS.



NO.	DATE	ISSUE DESCRIPTION
2	02/08/2023	PROJECT COORDINATION
1	09/14/2022	REVISION 1

Nearby Engineers

382 NE 191st St, Suite 49674,
Miami, FL 33179

NY ENGINEERS

PROJECT NAME
SUNRIGHT STUDIOS-SEATTLE

PHYSICAL LOCATION

DRAWING TITLE
ELECTRICAL PLANS

GRAPHIC SCALE
0 1/2" 1" 1"

SEAL	PROJECT NO.
SCALE	AS NOTED
DRAWN BY	NYE
CHECKED BY	NYE
DATE	02/08/2023
SHEET NUMBER	E2

PANEL: A (EX)										MOUNTING:		RECESSED					
208Y/120		VOLTS,		3		PHASE,		4		WIRE		PANEL LOCATION:		BOH			
MAIN CB:		NA		MLO:		200A		BUS:		200A		MIN,		FED FROM:		MAIN SERVICE	
NOTE:																	
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA)			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.			
						A	B	C									
1	20	LIGHTING-LOBBY, COUNTER	L	0.30	2#12, #12G, 3/4"C	0.66			2#12, #12G, 3/4"C	0.36	R	RECEPTACLE-KIOSK	20	2			
3	20	LIGHTING-DINING	L	0.27	2#12, #12G, 3/4"C		0.63		2#12, #12G, 3/4"C	0.36	R	RECEPTACLE-KIOSK	20	4			
5	20	LIGHTING-RESTROOM & KITCHEN	L	0.70	2#12, #12G, 3/4"C			1.42	2#12, #12G, 3/4"C	0.72	R	RECEPTACLE-GENERAL	20	6			
7			H	2.63		2.63						SPARE	20	8			
9	40/3P	CU-1(E)	H	2.63	(EXISTING)		3.03		2#12, #12G, 3/4"C	0.40	E	CUP SEALER(#2)	20	10			
11			H	2.63				2.95	2#12, #12G, 3/4"C	0.32	E	SYRUP DISPENSER (#4)	20	12			
13			H	1.54		1.94			2#12, #12G, 3/4"C	0.40	E	CUP SEALER(#2)	20	14			
15	20/3P	AHU-1(E)	H	1.54	(EXISTING)		1.72		2#12, #12G, 3/4"C	0.18	R	RECEPTACLE-RR	20	16			
17			H	5.14				5.51	2#12, #12G, 3/4"C	0.37	E	UNDERCOUNTER REFRIGERATOR (#6)	20	18			
19	30	LIGHTING-BOH(EXISTING)	L	0.50	(EXISTING)	0.87			2#12, #12G, 3/4"C	0.37	E	SANDWICH PREP TABLE (#7)	20	20			
21	30	REACH IN REFRIGERATOR (#13)	E	0.37	2#12, #12G, 3/4"C		1.57		2#12, #12G, 3/4"C	1.20	E	FOOD WARMER (#8)	20	22			
23	20/2P	ICE MACHINE PLUS BIN (#14)	E	1.12	2#12, #12G, 3/4"C			1.49	2#12, #12G, 3/4"C	0.37	E	REACH IN REFRIGERATOR (#13)	20	24			
25			E	1.12		13.89					O		20	26			
27	40/2P	TEA BREWER (#17)	E	3.18	2#8, #10G, 3/4"C		15.94		4#1, #6G, 1 1/4"C	12.77	O	NEW PANEL-B	125/3P	28			
29			E	3.18				15.94		12.77	O		20	30			
TOTAL CONNECTED LOAD (KVA)						19.98	22.89	27.31									

PANEL: B(N)										MOUNTING:		RECESSED			
208Y/120		VOLTS,		3		PHASE,		4		WIRE		PANEL LOCATION:		BOH	
MAIN CB:		NA		MLO:		125A		BUS:		125A		MIN,		FED FROM: PANEL_A	
NOTE:															
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA)			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
						A	B	C							
1	20	COFFEE GRINDER (#3)	E	0.17	2#12, #12G, 3/4"C	2.25			2#10, #10G, 3/4"C	2.08	E	WATER DISPENSER (#25)	30/2P	2	
3	20	WORK TOP REFRIGERATOR (#19)	E	0.15	2#12, #12G, 3/4"C		2.23			2.08	E	RECEPTACLE-BOH	20	4	
5	20	WORK TOP REFRIGERATOR (#19)	E	0.15	2#12, #12G, 3/4"C			0.69	2#12, #12G, 3/4"C	0.54	R	RECEPTACLE-BOH	20	6	
7	20/2P	INDUCTION RANGE (#20)	E	1.50	2#12, #12G, 3/4"C	3.58			2#12, #12G, 3/4"C	2.08	E	ESPRESSO MACHINE (#5)	20/2P	8	
9			E	1.50				3.58		2.08	E		20	10	
11	20	STAND MIXER (#23)	E	0.80	2#12, #12G, 3/4"C			2.60	2#12, #12G, 3/4"C	1.80	E	COUNTER TOP BLENDER (#9)	20	12	
13	20	JUICER (#24)	E	0.18	2#12, #12G, 3/4"C	0.55			2#12, #12G, 3/4"C	0.37	E	REACH IN REFRIGERATOR (#13)	20	14	
15	20	DISPLAY REFRIGERATOR (#29)	E	0.19	2#12, #12G, 3/4"C		0.55		2#12, #12G, 3/4"C	0.36	R	RECEPTACLE-ROOF	20	16	
17	20	RECEPTACLE-CASH REGISTER	R	0.36	2#12, #12G, 3/4"C			2.36	2#12, #12G, 3/4"C	2.00	R	RECEPTACLE-SHOW WINDOW	20	18	
19	20	HAND DRYER	R	1.00	2#12, #10G, 3/4"C	1.44			2#12, #12G, 3/4"C	0.44	H	KEF-1(N)	20	20	
21	20	RCP-1	M	0.09	2#12, #12G, 3/4"C		2.09		2#12, #12G, 3/4"C	2.00	R	RECEPTACLE-SHOW WINDOW	20	22	
23	20	JEF-1(N)	M	0.03	2#12, #12G, 3/4"C			1.23	2#12, #12G, 3/4"C	1.20	L	BUILDING SIGNAGE	20	24	
25	20	RECEPTACLE-TV	R	0.54	2#12, #10G, 3/4"C	5.54				5.00	O		20	26	
27	20	RECEPTACLE-LED STRIP	R	0.40	2#12, #10G, 3/4"C		5.40		3#6, #10G, 3/4"C	5.00	O	WH-1	60/3P	28	
29	20	RECEPTACLE-NEON LED LOGO	R	0.20	2#12, #10G, 3/4"C			5.20		5.00	O		20	30	
31	20	RECEPTACLE-LED STRIP	R	0.40	2#12, #10G, 3/4"C	1.90			2#12, #12G, 3/4"C	1.50	E	INDUCTION RANGE (#20)	20/2P	32	
33	20	RECEPTACLE-NEON SIGN	R	0.20	2#12, #10G, 3/4"C		1.70			1.50	E		20	34	
35	20	RECEPTACLE-OPEN SIGN	R	0.20	2#12, #10G, 3/4"C			0.20				SPARE	20	36	
37	20	COUNTER TOP BLENDER (#9)	E	1.80	2#12, #12G, 3/4"C	1.80						SPACE	20	38	
39	20	WORK TOP REFRIGERATOR (#19)	E	0.15	2#12, #12G, 3/4"C		0.15					SPACE	20	40	
41	20	SPARE						0.00				SPACE	20	42	
TOTAL CONNECTED LOAD (KVA)						17.06	15.70	12.28							

PANEL SCHEDULE GENERAL NOTES:

- ALL CIRCUITING SHOWN IN PANEL "A" IS FOR REFERENCE PURPOSE ONLY. E.C. SHALL VERIFY CIRCUITING OF THE EXISTING DEVICES IN FIELD AND INFORM ENGINEER FOR DISCREPANCIES.
- ELECTRICAL CONTRACTOR TO VERIFY THE EXACT PANEL SIZES AND INCOMING FEEDER SIZE.
- E.C. SHALL PROVIDE NEW CIRCUIT BREAKERS IN PLACE OF EXISTING CIRCUIT BREAKERS WHEREVER NECESSARY TO BE IN LINE WITH THE PANEL SCHEDULE

EQUIPMENT SCHEDULE:

ITEM NO.	DESCRIPTION	MAKE	MODEL	VOLTAGE	PHASE	AMPS	KW
2	CUP SEALER	XRTRONIC	LF-90	120	1	3.33	0.40
3	COFFEE GRINDER	BREVILLE	BCG820BSSXL	110	1	1.50	0.17
4	SYRUP DISPENSER	XRTRONIC	LF-88	110	1	2.86	0.32
5	ESPRESSO MACHINE	GINO	GTC-811	208	1	9.62	2.00
6	UNDERCOUNTER REFRIGERATOR	AVANTCO	UCR72AHC	115	1	3.24	0.37
7	SANDWICH PREP TABLE	AVANTCO	178APT60HC	115	1	3.24	0.37
8	FOOD WARMER	AVANTCO	W50	120	1	10.00	1.20
9	COUNTER TOP BLENDER	VITAMIX	036019-ABAB	120	1	15.00	1.80
13	REACH IN REFRIGERATOR (2 DOOR)	AVANTCO	178A49RGHC	115	1	3.24	0.37
14	ICE MACHINE PLUS BIN	HOSHIZAKI	KM-1100MAJ	208	1	10.77	2.24
17	TEA BREWER	FRESER	TB-35PLUS	208	1	30.53	6.35
19	WORK TOP REFRIGERATOR	AVANTCO	178SSWT72RHC	120	1	1.25	0.15
20	INDUCTION RANGE	ADCRAFT	IND-C208V	208	1	14.40	3.00
23	STAND MIXER	HAMILTON BEACH	CPM800	115	1	6.96	0.80
24	JUICER	SUNKIST	J-1	115	1	1.57	0.18
25	WATER DISPENSER	BUNN	H5X 43600.0002	208	1	19.47	4.05
29	DISPLAY REFRIGERATOR	AVANTCO	193BC48HCW	115	1	1.63	0.19
32	TV	SAMSUNG	UN43TU700DFXZA	115	1	1.57	0.18

GENERAL NOTE:

- ELECTRICAL CONTRACTOR SHALL VERIFY EXACT POWER AND CONNECTION REQUIREMENTS WITH THE MANUFACTURER PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.

2	02/08/2023	PROJECT COORDINATION	△
1	09/14/2022	REVISION 1	

NO.	DATE	ISSUE DESCRIPTION
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Nearby Engineers

382 NE 191st St, Suite 49674,
Miami, FL 33179

NY ENGINEERS

PROJECT NAME

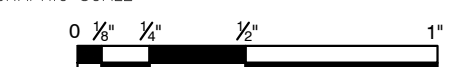
**SUNRIGHT
STUDIOS-SEATTLE**

PHYSICAL LOCATION

DRAWING TITLE

ELECTRICAL PANEL SCHEDULE

GRAPHIC SCALE



SEAL

PROJECT NO.

SCALE AS NOTED

DRAWN BY NYE

CHECKED BY NYE

DATE 02/08/2023

SHEET NUMBER

E3

PANEL SCHEDULE

SCALE
1/4" = 1'-0"

1

- GENERAL NOTES**
- CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE UTILITIES BEFORE STARTING TRENCHING WORK, OR THE INSTALLATION OF ANY PIPING.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS & PAYING ALL FEES REQUIRED TO PERFORM WORK SHOWN ON THESE DRAWINGS.
 - THE DRAWINGS ARE DIAGRAMATIC. THE LOCATION OF THE PIPING IS PROXIMATE. COORDINATE THE LOCATION OF PIPING WITH OTHER TRADES. ANY CONFLICTS WITH OTHER TRADES SHALL BE RESOLVED PRIOR TO INSTALLATION.
 - UNDERGROUND PIPING SHALL CLEAR ALL FOOTINGS IN AN APPROVED MANNER. SEE STRUCTURAL DRAWINGS FOR REQUIRED CLEARANCE AND FOOTING PENETRATION LOCATIONS.
 - ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE LATEST CURRENT EDITION OF THE UNIFORM PLUMBING CODE (UPC) 2018, INTERNATIONAL FIRE CODE (IFC) 2018 & ALL APPLICABLE CODES AND REGULATIONS.
 - CONCEAL ALL PIPING IN FINISHED PORTIONS OF THE BUILDING, UNLESS NOTED OTHERWISE.
 - CONSULT ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS, LOCATIONS AND ELEVATION OF FIXTURES.
 - EACH VENT SHALL TERMINATE NOT LESS THAN 10 FEET FROM, OR NOT LESS THAN 3 FEET ABOVE, AN OPENABLE WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHAFT, OR NOT LESS THAN 3 FEET IN EVERY DIRECTION FROM A LOT LINE, ALLEY AND STREET EXCEPTED.
 - TOILETS SHALL USE 1.28 GALLONS PER FLUSH (GPF) MAXIMUM.
- ADA NOTES:**
- ALL PLUMBING FIXTURES INDICATED WITH AN "A" SUBLETTER AFTER THE FIXTURE NUMBER SHALL BE INSTALLED FOR ADA REQUIREMENTS USE AS FOLLOWS:
 - WATER CLOSET: INSTALL WITH TOP OF SEAT 17" TO 19" ABOVE FINISHED FLOOR. FLUSHMETER VALVE, BATTERY SENSOR OPERATED WITH OVERRIDE PUSH BUTTON & MAXIMUM OPERATING AT 1.28 GPF. FOR FACILITY RESTROOM THE FLUSH VALVE SHALL BE OPERATED BY AN OSCILLATING HANDLE W/ 1.28 GPF & THIS HANDLE SHALL FACE THE SIDE WALL FURTHEST FROM THE CENTER LINE OF THE FIXTURE.
 - LAVATOIRES: INSTALL WITH BOTTOM OF APRON 29" ABOVE FINISHED FLOOR PROVIDE HOT & COLD WATER W/ STOPS FOR FACILITY USE & INSULATE HOT WATER STOP. DRAIN TAILPIECE & TRAP. FOR STUDENTS RESTROOM, PROVIDE COLD WATER ONLY METERED FAUCET COMPLETE ASSEMBLY, STOP, DRAIN TAILPIECE AND TRAP.
 - SHOWERS: INSTALL WATER CONTROLS 40" ABOVE THE SHOWER FLOOR. FOR FACILITY SHOWERS PROVIDE A FLEXIBLE HAND HELD SHOWER UNIT WITH A MIN 60" LONG HOSE WITH HEAD MOUNTED 48" ABOVE THE SHOWER FLOOR.
 - URNAL: INSTALL WITH RIM 17" ABOVE FINISHED FLOOR. FLUSHMETER VALVE FOR FACILITY USE & BATTERY SENSOR OPERATED FLUSH VALVE FOR STUDENTS USE & SHALL BE LOCATED NOT MORE THAN 44" ABOVE THE FINISHED FLOOR. 0.125GPF.
 - ELECTRICAL WATER COOLER OR DRINKING FOUNTAIN: INSTALL WITH THE CENTERLINE OF THE BUBBLER HEAD LOCATED 36" ABOVE THE FINISHED FLOOR.
 - THE SEISMIC BRACING AND ANCHORAGE OF PIPING SHALL BE IN ACCORDANCE WITH GUIDELINES FOR SEISMIC RESTRAINTS OF MANUAL GUIDELINES FOR MECHANICAL SYSTEMS PUBLISHED BY SMACNA.
 - CONTRACTOR SHALL VISIT JOB SITE AND VERIFY ALL APPLICABLE CONDITIONS PRIOR TO BID.
 - EQUIPMENT & APPLIANCES MARKED NOT IN CONTRACT (N.I.C.) AS WELL AS EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS, SHALL BE INSTALLED SET IN PLACE AND CONNECTED IN SATISFACTORY OPERATING CONDITION BY THE CONTRACTOR.
 - PROVIDE CD AS REQUIRED TO MECHANICAL EQUIPMENT IN COMPLIANCE WITH CPC, SPECIFICATION & DWGS.
 - WHERE IT HAS BEEN RECOMMENDED BY THE SOIL SURVEY REPORT TO PROVIDE PIPE PROTECTION FROM UNDERGROUND CORROSIVE SOIL(S), PIPES SHALL BE PROTECTED/ENCASED AS PER THE INSTALLATION/ENCASEMENT PORTIONS OF ASTM-74, ASTM D 2321 & AWWA C105 AS APPLIES.
 - PROVIDE CONDENSATE AND OVERFLOW DRAIN PIPING TO ALL FAN COIL UNITS AND MECHANICAL EQUIPMENT W/ TRAP, UNIONS & FLEXIBLE CONNECTIONS AND SPILL TO APPROVED RECEPTACLE OR CONNECT TO TAILPIECE. INSULATE ALL CONDENSATE AND OVERFLOW DRAIN PIPING INSIDE BUILDING. SLOPE ALL PIPING @ 1/8" PER FOOT.
 - PROVIDE PIPE INSULATION AS INDICATED ON SPECIFICATION AND INSULATE ALL PLUMBING EXPOSED PIPING WITHIN THE BUILDING IN AMBIENT TEMPERATURES & AIR CONDITIONING AREAS.

- MEP COMPONENT ANCHORAGE NOTE**
- ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE
- * 2018 IBC, SECTIONS 1705.12.6,
 - * ASCE 7-16 CHAPTER 13, 26 AND 30.
- ALL PERMANENT EQUIPMENT AND COMPONENTS.
 - TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
 - MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

- PIPING SYSTEM BRACING NOTE**
- PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN
 - *ASCE 7-16 SECTION 13.3 AS DEFINED
 - *ASCE 7-16 SECTION 13.6.6, 13.6.7, 13.6.5.6, AND
 - *2018 IBC, SECTIONS 1705.12.6.
 - THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR BRACING AND ATTACHMENTS AREA BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD OPM).
 - COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

- 2018 INTERNATIONAL BUILDING CODES (IBC)
 2018 INTERNATIONAL RESIDENTIAL CODE (IRC)
 2018 INTERNATIONAL MECHANICAL CODE (IMC)
 2018 UNIFORM PLUMBING CODE (UPC)
 2020 NATIONAL ELECTRICAL CODE (NEC)
 2018 INTERNATIONAL FIRE CODE (IFC)
 2018 INTERNATIONAL FUEL AND GAS CODE (IFGC)
 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

PIPE MATERIAL				
SERVICES	LOCATION	MATERIAL	JOINING METHOD	REMARKS
DOMESTIC COLD & HOT WATER	UNDERGROUND	RIGID COPPER (TYPE K)	BRAZED	NOT TO EXCEED 20 OF 1 PERCENT JOINT FITTINGS. SHOULD STREET PRESSURE EXCEED 80 PSI, A PRESSURE REDUCING VALVE ASSEMBLY SHALL BE INSTALLED. NO JOINTS SHALL BE ALLOWED UNDER BUILDING SLAB. GATE VALVES SHALL BE BRONZE WITH ENDS TO SUITE PIPE, NON RISING STEM FOR 150 PSI WORKING PRESSURE.
	ABOVE GROUND	RIGID COPPER (TYPE L)	SOLDERED	
SANITARY WASTE SEWER	UNDERGROUND	CAST IRON SOIL PIPE & FITTINGS OR OTHER APPROVED MATERIAL	HUBLESS	ABS PIPE MAY BE USED WHEN FIRST APPROVED BY THE ADMINISTRATIVE AUTHORITY
	ABOVE GROUND	CAST IRON SOIL PIPE & FITTINGS OR OTHER APPROVED MATERIAL	HUBLESS	ABS PIPE MAY BE USED WHEN FIRST APPROVED BY THE ADMINISTRATIVE AUTHORITY
SANITARY WASTE VENT	ABOVE GROUND	CAST IRON SOIL PIPE & FITTINGS OR OTHER APPROVED MATERIAL	HUBLESS	ABS PIPE MAY BE USED WHEN FIRST APPROVED BY THE ADMINISTRATIVE AUTHORITY

MISC. EQUIPMENT SCHEDULE			
MARK	EQUIPMENT	LOCATION/SERVICE	DESCRIPTION
WH-1	WATER HEATER	FLOOR MOUNTED	NEW AMERICAN STANDARD ELECTRIC WATER HEATER CE-C2-52, CAPACITY-50 GALLON, QUANTITY-1, RECOVERY RATE-62 GPH, ELECTRICAL LOAD-15KW, 220V-3PHASE-42AMP
ET-1	EXPANSION TANK	REFER FLOOR PLAN	NEW THERMXTROL COMMERCIAL THERMAL EXPANSION TANK ST-5C-DD, CAPACITY-2 GALLON, QUANTITY-1, DIMENSION = 8"(DIA) X 14"(H)
RCP-1	HOT WATER CIRCULATION PUMP	REFER FLOOR PLAN	NEW XYLEM HOT WATER CIRCULATION PUMP NBF-8S/LW, FLOW-2 GPM, HEAD-8 FT, ELECTRICAL LOAD-39 WATTS, QUANTITY-1, 115V-1PHASE-0.3RAMP
GI-1	GREASE INTERCEPTOR	REFER FLOOR PLAN	NEW SCHIER GREASE INTERCEPTOR GB2, FLOW CAPACITY-50 GPM, GREASE CAPACITY-127 LBS, QUANTITY-1, SIZE = 35"(L) X 23"(W) X 13-3/4"(H)

EXISTING CONDITION NOTES

STOP AND READ

THE CONTRACTOR AND SUB-CONTRACTORS SHALL NOT INITIATE ANY WORK UNTIL EXISTING FIELD CONDITIONS ARE PROPERLY VERIFIED. THIS SHALL HOLD TRUE FOR FIRST GENERATION AND 2ND GENERATION SPACES. WHEN DEMOLITION IS REQUIRED, THAT WILL BE PERMITTED TO EXPOSE CONDITIONS. THESE VERIFICATIONS SHALL INCLUDE BUT NOT LIMITED TO: DIMENSIONS BOTH HORIZONTALLY AND VERTICAL, ELECTRICAL SERVICE /PANELS LOCATION AND VOLTS/PHASE, LOCATION/QTY OF ROOF MOUNTED HVAC EQUIPMENT, CONFIRM THAT INTERIOR HVAC HUNG UNITS HAVE PROPER SUPPORT CONNECTIONS FOR EXISTING STRUCTURE, FIRE SPRINKLER MAIN RUNS, TOILET ROOM DIMENSIONS, DOOR SWING FOR DOORS TO REMAIN AND ETC. IF NOT VERIFIED AND DISCOVERED AT A LATER TIME, THE CONTRACTOR SHALL REIMBURSE THE ARCHITECT FOR THE REDESIGN FEE. THIS DOES NOT INCLUDE HIDDEN WORK I.E. PITCH OF SANITARY LINES, ACTUAL CONDITIONS OF EXISTING HVAC EQUIPMENT, STRUCTURAL COLUMNS/BEARING WALLS OR CONDITIONS OF GREASE INTERCEPTORS AND ETC.

- ENERGY CONSERVATION NOTES**
- AS PER 2018 INTERNATIONAL ENERGY CONSERVATION CODE C404.4, PIPING FROM A WATER HEATER TO THE TERMINATION OF THE HEATED WATER FIXTURE SUPPLY PIPE SHALL BE INSULATED IN ACCORDANCE WITH TABLE C403.11.3.
 - AS PER 2018 INTERNATIONAL ENERGY CONSERVATION CODE C404.5.1, HOT WATER SYSTEM PIPING IS DESIGNED AS PER MAXIMUM ALLOWED PIPE LENGTH METHOD. THE HOT WATER VOLUME FROM THE NEAREST SOURCE OF HEATED WATER TO THE TERMINATION OF THE FIXTURE SUPPLY PIPE SHALL BE AS PER MAXIMUM PIPING LENGTH TABLE.
 - AS PER 2018 INTERNATIONAL ENERGY CONSERVATION CODE C404.6.1, CONTROLS FOR CIRCULATING HOT WATER SYSTEM PUMPS SHALL START THE PUMP BASED ON THE IDENTIFICATION OF A DEMAND FOR HOT WATER WITHIN THE OCCUPANCY. THE CONTROLS SHALL AUTOMATICALLY TURN OFF THE PUMP WHEN THE WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE AND WHEN THERE IS NOT DEMAND FOR HOT WATER.
 - AS PER 2018 INTERNATIONAL ENERGY CONSERVATION CODE C404.7, THE CONTROLS SHALL LIMIT THE TEMPERATURE OF THE WATER ENTERING THE COLD-WATER PIPING TO NOT GREATER THAN 104°F (40°C).

PLUMBING LEGEND	
	SANITARY SEWER PIPING
	GREASE WASTE PIPING
	VENT PIPING
	DOMESTIC COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
	PIPE RISE OR DROP
	PIPE RISER UP
	BALANCING VALVE
	CAPPED END OF PIPE
	CLEAN OUT DECK PLATE
	P-TRAP
	SHUT-OFF VALVE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
	VENT THRU ROOF
	REFRIGERATOR
	BREAKROOM SINK
	WALL CLEAN OUT
	WATER HEATER
	HOT WATER CIRCULATION PUMP
	EXPANSION TANK
	MOP SINK
	FLOOR SINK
	GREASE INTERCEPTOR
	GATE VALVE
	CHECK VALVE
	BALANCING VALVE
	WATER HAMMER ARRESTER
	FLOOR DRAIN

NO.	DATE	ISSUE DESCRIPTION
3	09/04/2023	PROJECT COORDINATION
2	02/08/2023	PROJECT COORDINATION
1	09/14/2022	REVISION 1

Nearby Engineers

382 NE 191st St, Suite 49674,
Miami, FL 33179

NY ENGINEERS

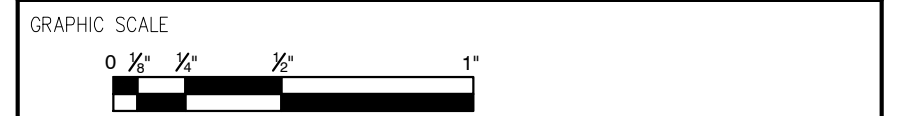
PROJECT NAME

SUNRIGHT STUDIOS-SEATTLE

PHYSICAL LOCATION

DRAWING TITLE

PLUMBING NOTES, SCHEDULE & LEGENDS



PROJECT NO.	
SCALE	AS NOTED
DRAWN BY	NYE
CHECKED BY	NYE
DATE	09/04/2023
SHEET NUMBER	

P1

2

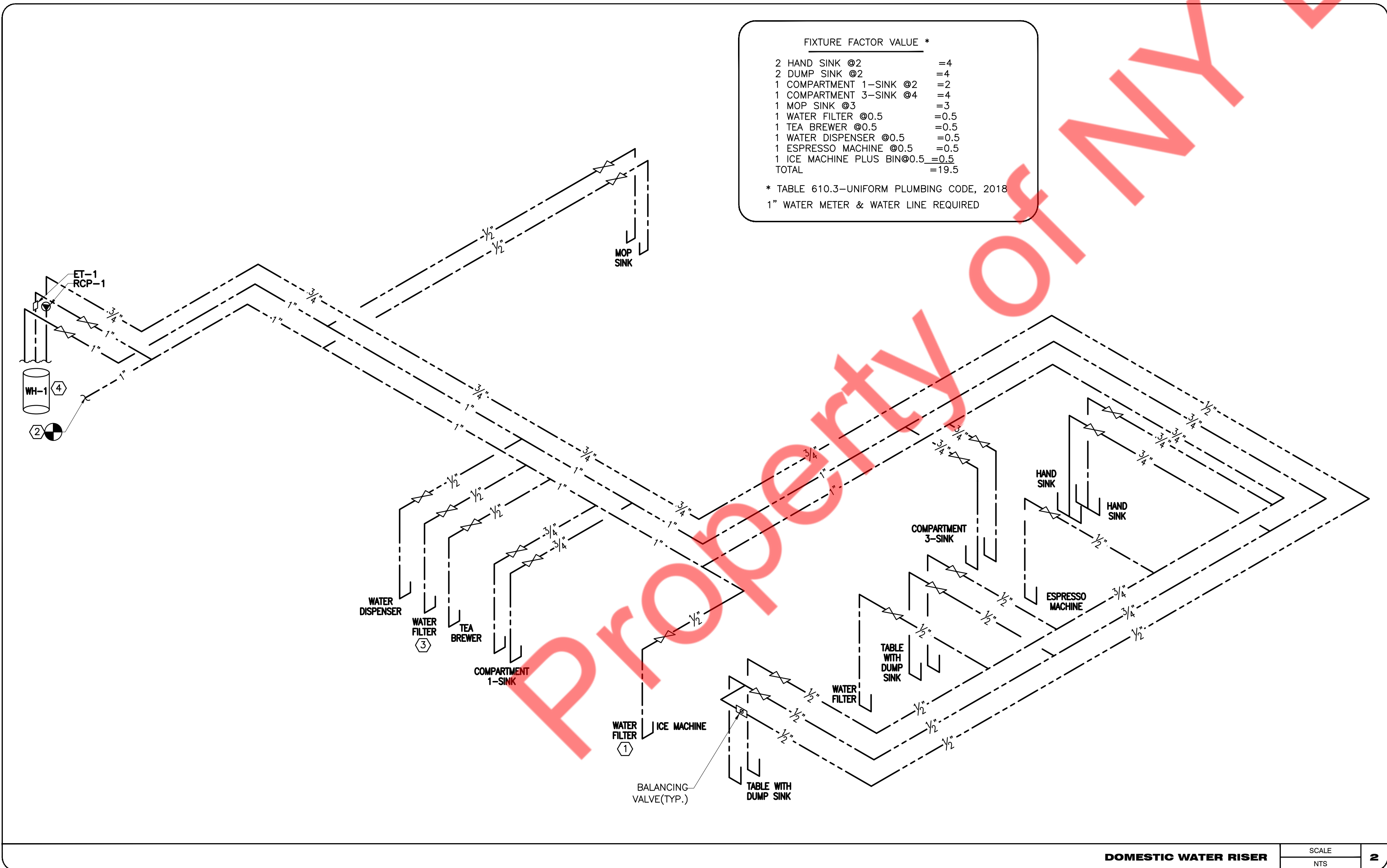
EQUIPMENT SCHEDULE											
ITEM NO.	QUANTITY	ITEM	MANUFACTURE & MODEL NO.	SIZE			PLUMBING				REMARKS
				W"	D"	H"	WATER		WASTE		
							CW	HW	DIRECT	INDIRECT	
1	2	N HAND SINK	REGENCY 600HS12SP	12	16	5	1/2"	1/2"	2"	—	
5	1	N ESPRESSO MACHINE	GINO GTC-811	30	20.8	22	1/2"	—	2"		⚠
10	1	N TABLE WITH DUMP SINK	ATL CTD-P3010B	108	30	59	1/2"	1/2"	—	2"	
12	1	N COMPARTMENT 3-SINK	REGENCY 600S321B24X	106	29.5	44	3/4"	3/4"	—	2"	
14	1	N ICE MACHINE PLUS BIN	HOSHIZAKI KM-1301SAJ3 B-800SF	48	32.5	74	1/2"	—	—	1"	
15	1	N COMPARTMENT 1-SINK	REGENCY 600S11B1818XLFT	36 1/2	23 1/2	43 1/2	3/4"	3/4"	—	2"	
17	1	N TEA BREWER	FRESER TB-35PLUS	13.75	29.15	29.9	1/2"	—	—	1"	⚠
21	1	N MOP SINK	REGENCY 600SM162012	25	21	16	1/2"	1/2"	3"	—	
25	1	N WATER DISPENSER	BUNN HSX43600.0002	7.4	17.6	28.5	1/2"	—	—	1"	
26	1	N WATER FILTER	EVERPURE EV9329-74	34	6	25.59	1/2"	—	—	—	
27	2	N WATER FILTER	EVERPURE EV979750	13.72	6.23	15.23	1/2"	—	—	—	

- WATER KEY NOTES**
- ① WATER SUPPLY WILL BE CONNECTED TO WATER FILTER (26) AND THEN IT IS SUPPLIED TO ICE MACHINE PLUS BIN (14) WITH APPROVED FITTINGS.
 - ② CONNECT NEW 1" CW LINE TO EXISTING WATER LINE IN A SPACE. CONTRACTOR TO FIELD VERIFY EXACT SIZE & LOCATION OF WATER METER & BACKFLOW PREVENTER REQUIREMENTS IN FIELD AND BASE BID ACCORDINGLY.
 - ③ WATER SUPPLY WILL BE CONNECTED TO WATER FILTER (27) AND THEN IT IS SUPPLIED TO WATER DISPENSER (25) WITH APPROVED FITTINGS.
 - ④ INSTALL WATER HEATERS (WH-1) AS PER MANUFACTURER'S RECOMMENDATIONS, ROUTE DISCHARGE TO FLOOR DRAIN.

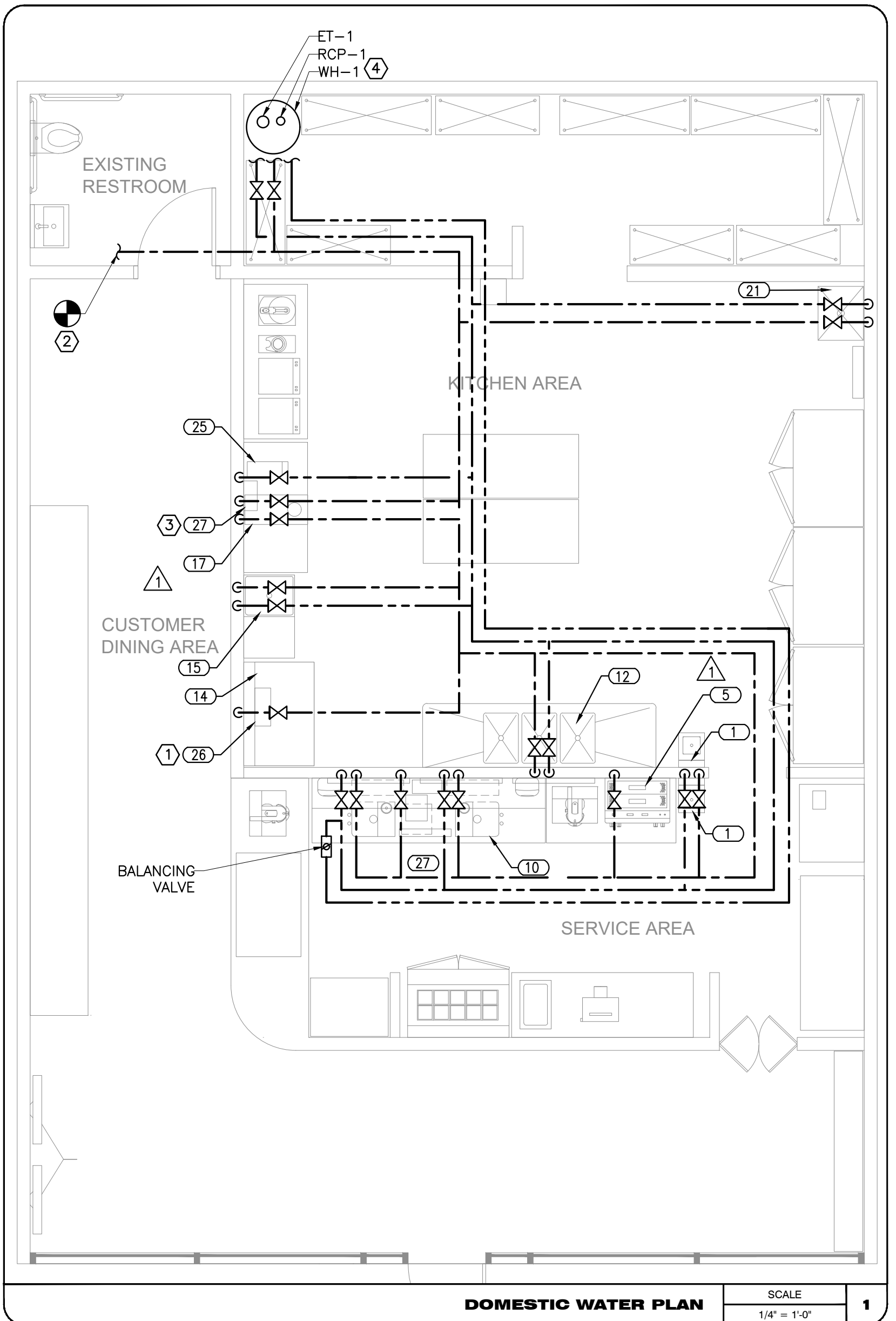
FIXTURE FACTOR VALUE *

2 HAND SINK @2	=4
2 DUMP SINK @2	=4
1 COMPARTMENT 1-SINK @2	=2
1 COMPARTMENT 3-SINK @4	=4
1 MOP SINK @3	=3
1 WATER FILTER @0.5	=0.5
1 TEA BREWER @0.5	=0.5
1 WATER DISPENSER @0.5	=0.5
1 ESPRESSO MACHINE @0.5	=0.5
1 ICE MACHINE PLUS BIN @0.5	=0.5
TOTAL	=19.5

* TABLE 610.3—UNIFORM PLUMBING CODE, 2018
1" WATER METER & WATER LINE REQUIRED



DOMESTIC WATER RISER SCALE: NTS 2



DOMESTIC WATER PLAN SCALE: 1/4" = 1'-0" 1

NO.	DATE	ISSUE DESCRIPTION
3	09/04/2023	PROJECT COORDINATION
2	02/08/2023	PROJECT COORDINATION
1	09/14/2022	REVISION 1

Nearby Engineers
382 NE 191st St, Suite 49674,
Miami, FL 33179
NY ENGINEERS

PROJECT NAME
SUNRIGHT STUDIOS-SEATTLE

PHYSICAL LOCATION

DRAWING TITLE
PLUMBING WATER PLAN & RISER



PROJECT NO.	
SCALE	AS NOTED
DRAWN BY	NYE
CHECKED BY	NYE
DATE	09/04/2023
SHEET NUMBER	

GREASE INTERCEPTOR SCHIER GB2 (GB-1)

SPECIFICATIONS

Notes:

1. 4" FPT inlet/outlet with 3" and 4" plain end fittings.
2. Unit weight - 49 lbs. (wet weight 216 lbs.)
3. Maximum operating temperature: 150° F continuous
4. Capacities - Liquid: 20 gal.
Grease: 130 lbs. (17.8 gal.) @35 GPM
Grease: 127 lbs. (17.3 gal.) @50 GPM
Grease (99% - at least 2 units in series): 180 lbs. (24.7 gal.) @35 GPM
Solids: 1.8 gal.
5. Built-in flow control.
6. For gravity drainage applications only.
7. Do not use for pressure applications.
8. Cover placement allows full access to tank for proper maintenance.
9. Vent not required unless per local code.
10. Engineered inlet and outlet diffusers are removable to inspect/clean piping.
11. Integral air relief / anti-siphon.
12. Designed for indoor, on-floor, below-grade or low-profile under sink installations.

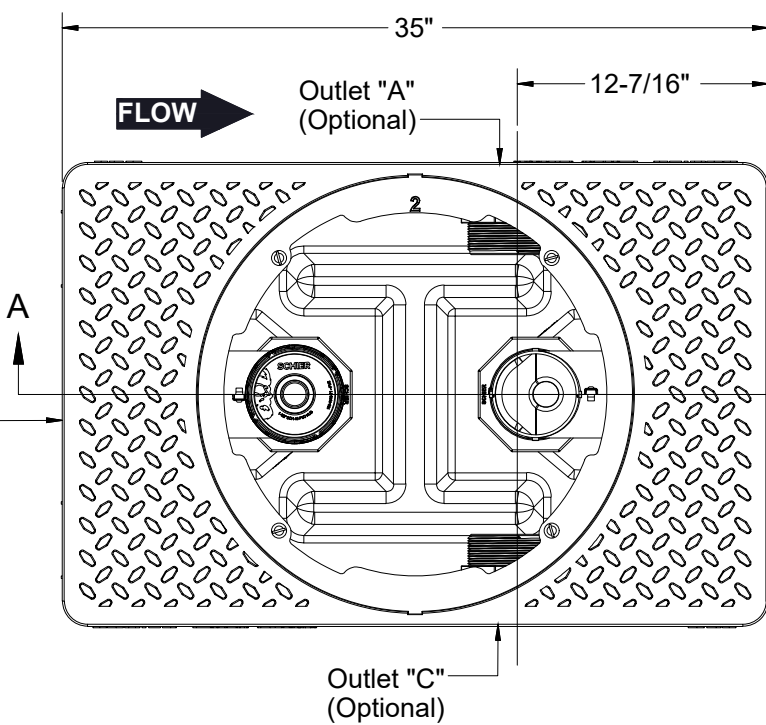
ENGINEER SPECIFICATION GUIDE

Schier Great Basin™ grease interceptor model # GB2 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene with minimum 5/16" uniform wall thickness. Interceptor shall be furnished for above or below grade installation. Interceptor shall be certified to ASME A112.14.3 (type C) and CSA B481.1, with field cut riser system, built-in flow control and three outlet options. Interceptor flow rate shall be 35 or 50 GPM. Interceptor grease capacity shall be 130 lbs. @ 35 GPM or 127 lbs. @ 50 GPM. Cover shall provide water/gas-tight seal and have minimum 450 lbs. load capacity.

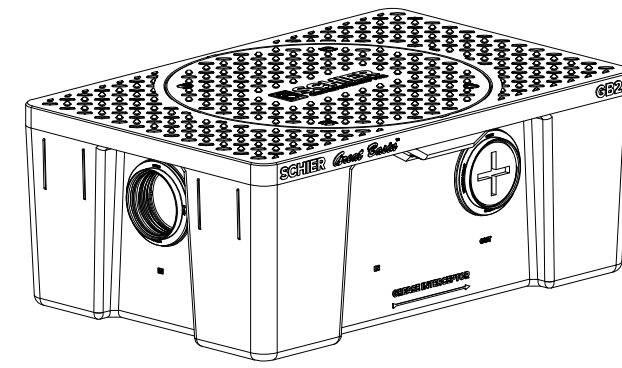
CERTIFIED PERFORMANCE

Great Basin™ hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME #A112.14.3 and CSA B481.1 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code, the National Standard Plumbing Code, the National Plumbing Code of Canada, and the International Plumbing Code.

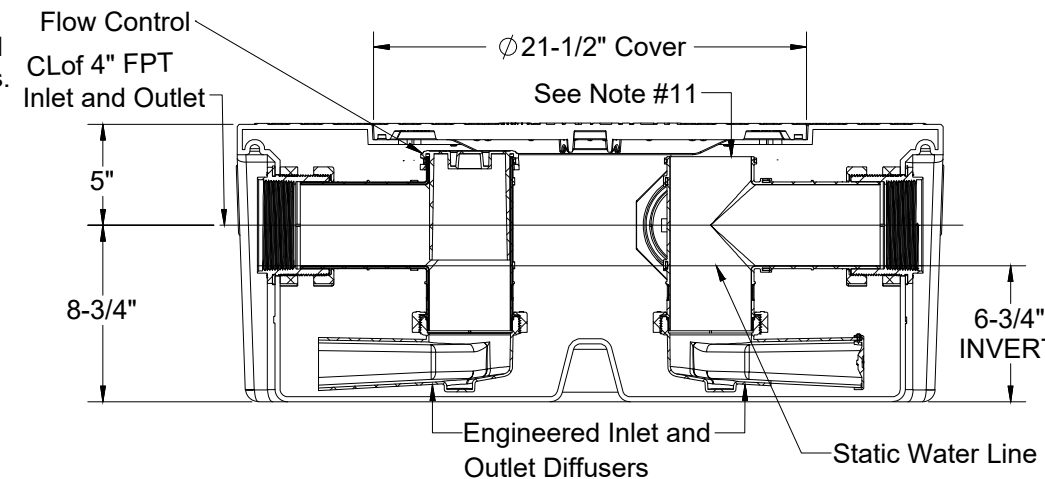
Satisfies Miami DERM 99% efficiency requirements when at least 2 units are installed in series. Product labels are permanently attached to inside and outside of unit for easy viewing.



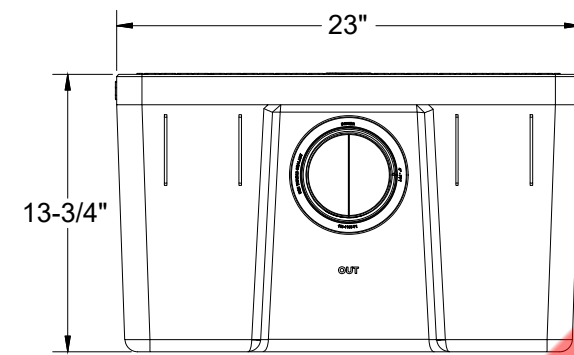
TOP VIEW
(COVER REMOVED FOR CLARITY)



ISOMETRIC VIEW



SECTION A-A



END VIEW

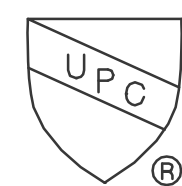
SPECIFICATION SHEET

MODEL NUMBER:

GB2

DESCRIPTION:

GB2 GREASE INTERCEPTOR 35 GPM / 50 GPM, 4" FPT INLET/OUTLET, WITH 3" AND 4" PLAIN END FITTING ADAPTERS AND PEDESTRIAN RATED COVER



GREASE INTERCEPTOR SIZING

TAG	DESCRIPTION	QTY	DIMENSIONS			VOLUME CU. IN. (GALLONS)	%USAGE	GPM		
			LENGTH	WIDTH	DEPTH			1 MIN	2 MIN	
15	1 COMP SINK	01	18	18	14	4536	19.6	0.75	14.7	7.35
21	MOP SINK	01	20	16	12	3840	16.6	0.75	12.5	6.25
12	3 COMP SINK	01	24	18	14	18144	78.5	0.75	58.9	29.5
FS	FLOOR SINK	01	-	-	-	-	2.5	1	2.5	1.25
TOTAL GPM							88.6	44.35		

AS PER 2018 UNIFORM PLUMBING CODE SECTION 1014.0, PROPOSED GREASE INTERCEPTOR (GI-1) MODEL SCHIER GB2

SANITARY KEY NOTES

1. ROUTE INDIRECT WASTE FROM TABLE WITH DUMP SINK (10) IN TO FLOOR SINK WITH APPROVED AIR GAP.
2. ROUTE INDIRECT WASTE FROM COMPARTMENT 3-SINK (12) IN TO FLOOR SINK WITH APPROVED AIR GAP.
3. ROUTE INDIRECT WASTE FROM ICE MACHINE IN TO FLOOR SINK WITH APPROVED AIR GAP.
4. ROUTE INDIRECT WASTE FROM COMPARTMENT 1-SINK (15) IN TO FLOOR SINK WITH APPROVED AIR GAP.
5. ROUTE INDIRECT WASTE FROM WATER DISPENSER (25) IN TO FLOOR SINK WITH APPROVED AIR GAP.
6. ROUTE INDIRECT WASTE FROM ESPRESSO MACHINE (5) IN TO FLOOR SINK WITH APPROVED AIR GAP.
7. ROUTE INDIRECT WASTE FROM TEA BREWER (17) IN TO FLOOR SINK WITH APPROVED AIR GAP.
8. CONNECT NEW 4" SANITARY PIPING TO EXISTING SANITARY PIPING. CONTRACTOR SHALL VERIFY EXACT SIZE, INVERT AND LOCATION.
9. CONNECT NEW 3" VENT PIPING TO EXISTING VENT PIPING. CONTRACTOR SHALL VERIFY EXACT SIZE AND LOCATION.
10. CONTRACTOR TO INSTALL GREASE INTERCEPTOR AS PER MANUFACTURER INSTRUCTION. CO-ORDINATE WITH ARCHITECT/LANDLORD FOR FINAL LOCATION.

NO.	DATE	ISSUE DESCRIPTION
3	09/04/2023	PROJECT COORDINATION
2	02/08/2023	PROJECT COORDINATION
1	09/14/2022	REVISION 1

Nearby Engineers

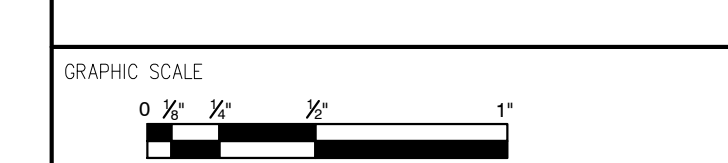
382 NE 191st St, Suite 49674,
Miami, FL 33179

NY ENGINEERS

PROJECT NAME
SUNRIGHT STUDIOS-SEATTLE

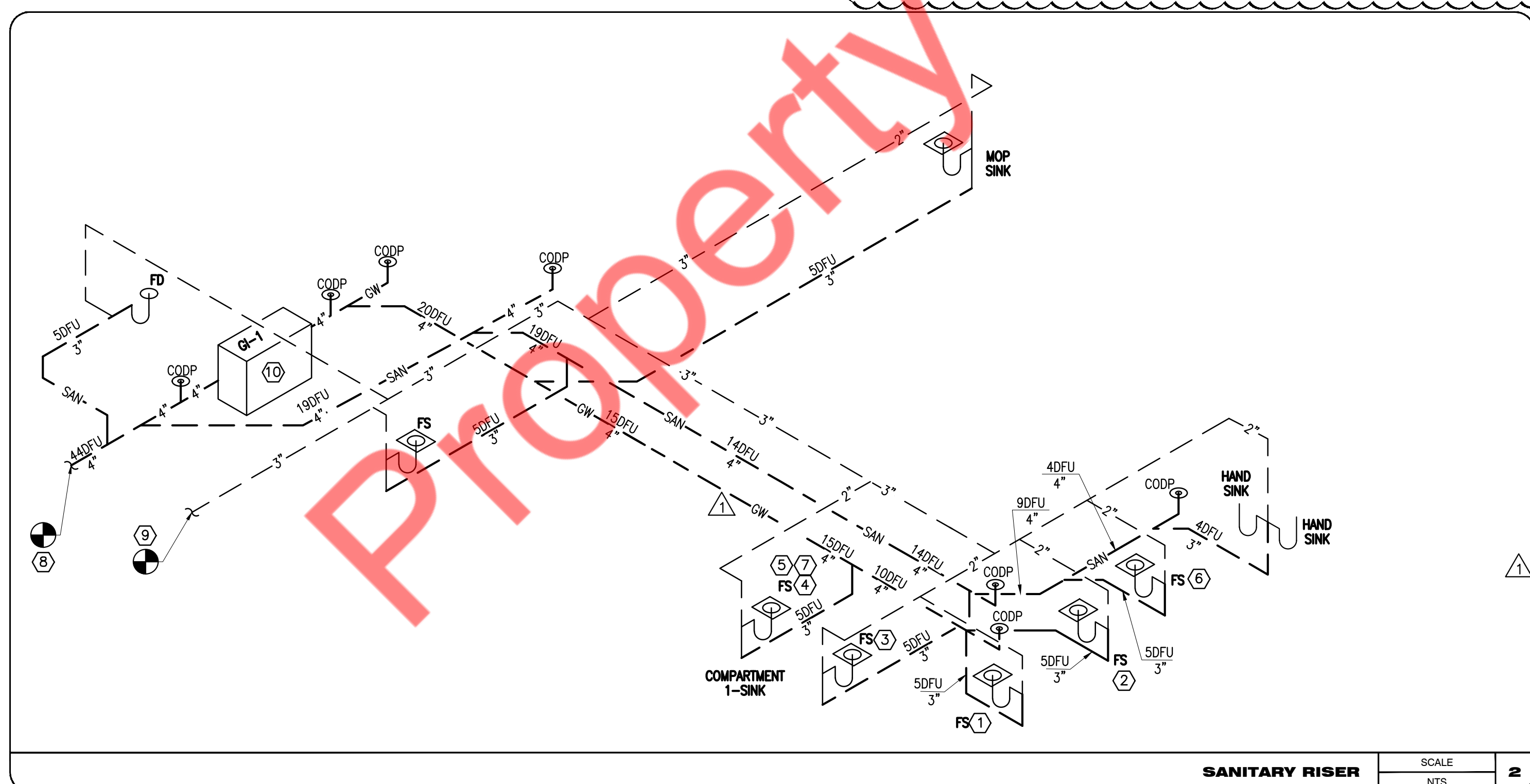
PHYSICAL LOCATION

DRAWING TITLE
PLUMBING SANITARY PLAN & RISER

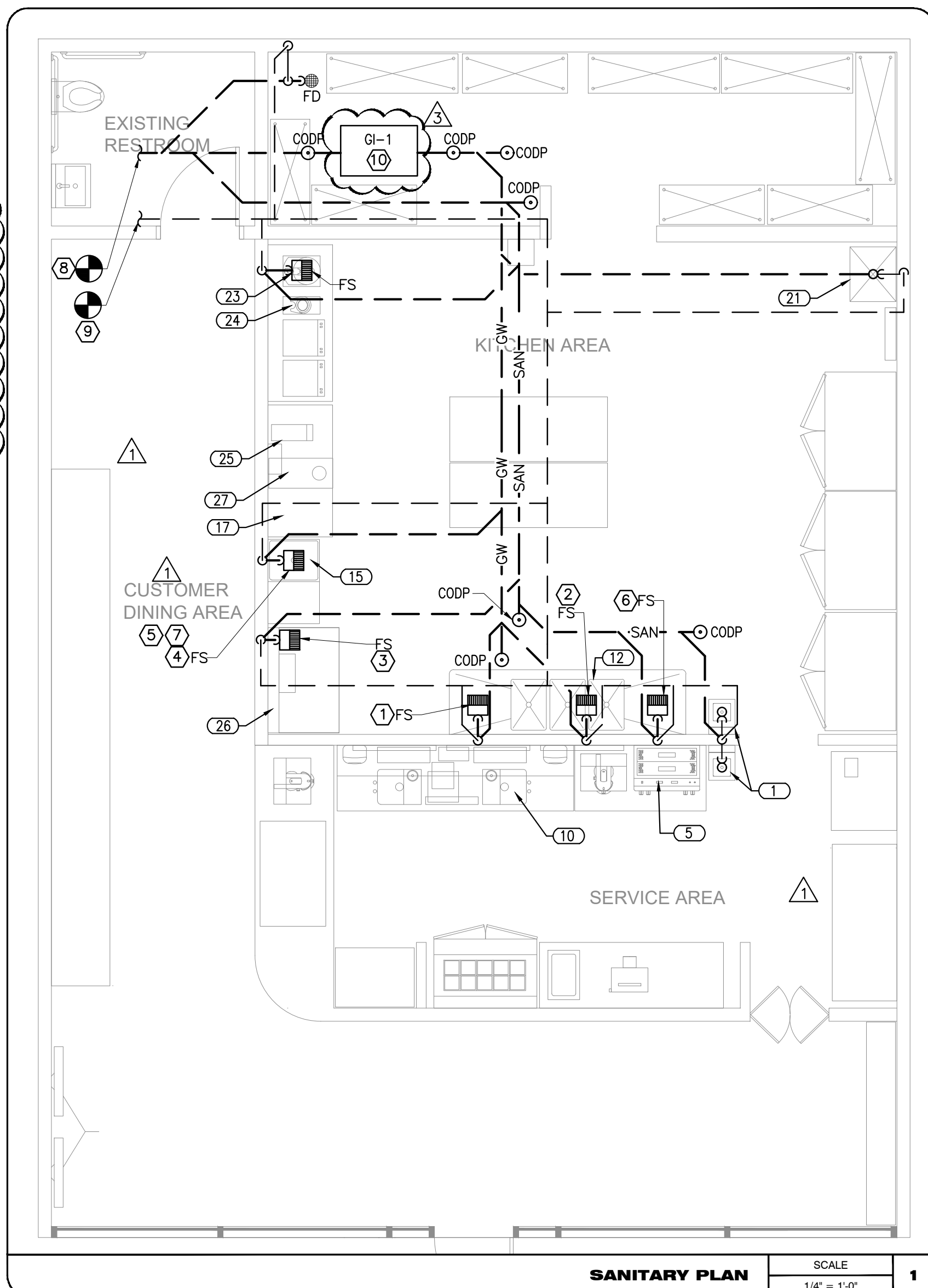


PROJECT NO.	
SCALE	AS NOTED
DRAWN BY	NYE
CHECKED BY	NYE
DATE	09/04/2023
SHEET NUMBER	

P3



SANITARY RISER SCALE: NTS 2



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