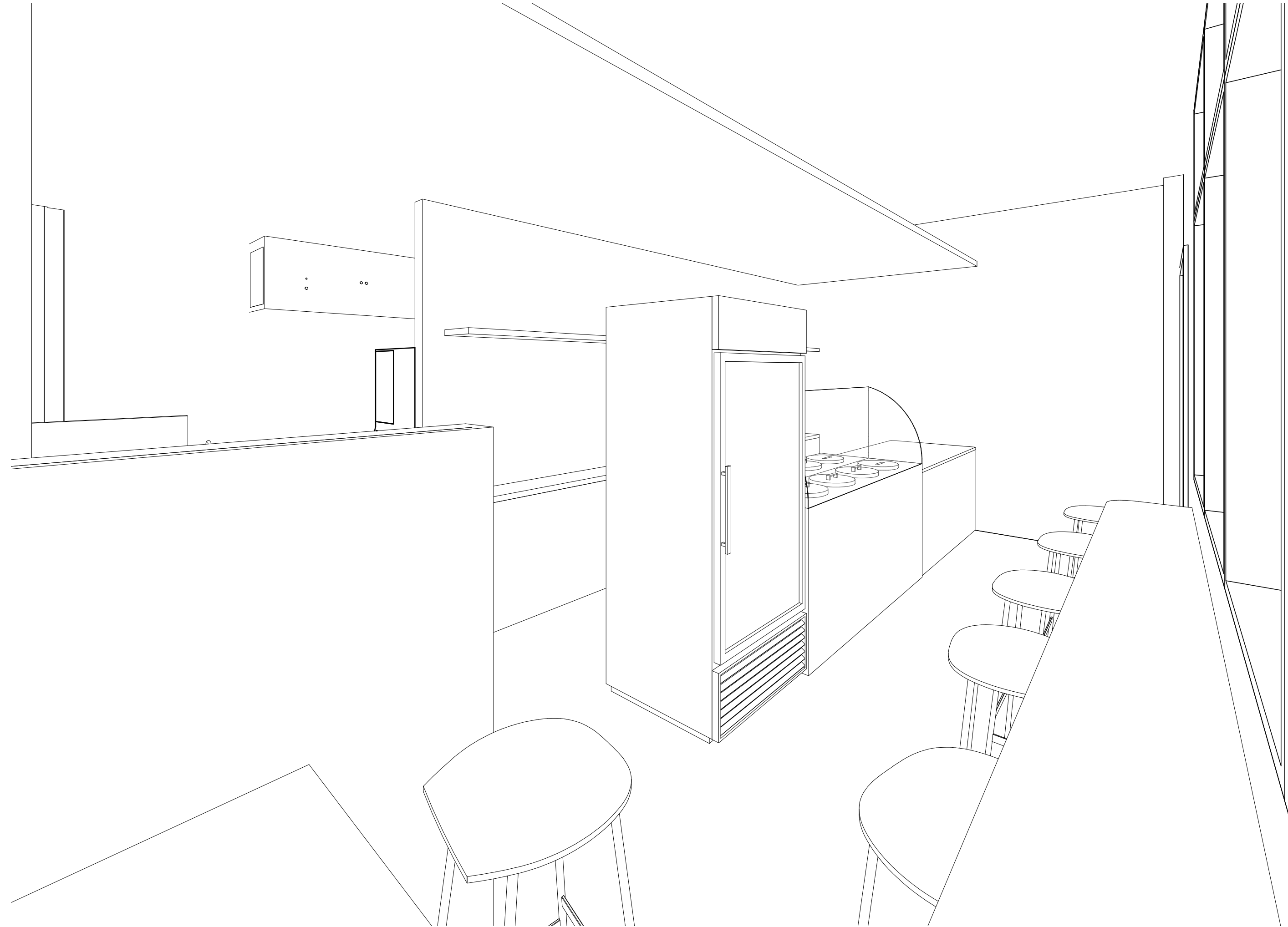


SABOR PIRI PIRI

TENANT IMPROVEMENT
804 B AVENUE, NATIONAL CITY CA 91950



GENERAL INFORMATION

ADDRESS: 804 B AVE
NATIONAL CITY CA 91950

APN: 556.472-26-00

LEGAL DESCRIPTION: BLK 2*LOTS 11 THRU 20 IN
SUB OF LOT QSEC 154 MP166 IN\

TENANT NAME: SABOR PIRI PIRI

PROPERTY TOTAL SQ FT: 453 SQFT

USE TYPE: FOOD/RETAIL - COMMERCIAL

FIRE ALARM: YES

WATER AND SEWER DISTRICT: SWEETWATER

BUILDING CODE: 2019 CALIFORNIA BUILDING
CODE CBC

TYPE OF FACILITY: SINGLE SERVICE UTENSILS

NUMBER OF EMPLOYEES: 3

SCOPE OF WORK:

THIS PROJECT WILL PROPOSE A 453SF TENANT IMPROVEMENT KITCHEN AND SERVING AREA WITH NEW MECHANICAL / ELECTRICAL / PLUMBING EQUIPMENT AND NEW MENU INSIDE AN EXISTING BUILDING SHELL FOR A HEALTH DEPARTMENT PERMIT AND BUILDING PERMIT. NO STRUCTURAL WORK WILL BE PROPOSED.

APPLICABLE CODES:

BUILDING CODE: 2019 CALIFORNIA BUILDING CODE (CBC)
PLUMBING CODE: 2019 CALIFORNIA PLUMBING CODE (CPC)
MECHANICAL CODE: 2019 CALIFORNIA MECHANICAL CODE (CMC)
ELECTRICAL CODE: 2019 CALIFORNIA ELECTRICAL CODE (CEC)
ENERGY CODE: 2019 CALIFORNIA ENERGY CODE
FIRE/LIFE SAFETY: 2019 CALIFORNIA FIRE CODE (CFC)
ACCESSIBILITY CODE: 2019 CALIFORNIA BUILDING CODE
(TITLE 24, PART 2)

PROJECT TEAM

TENANT/OWNER:
CANDIDO GADAGA
SABOR PIRI
804 B AVE. NATIONAL CITY CA.
619.200.8246
GADAGACANDIDO@GMAIL.COM

DESIGNER:
BASECAMP CONSTRUCTION CO.
JEREMY ARTATES
75 3RD AVE UNIT 21
CHULA VISTA CA 91910
949.702.2859
JEREMYARTATES@GMAIL.COM

MECHANICAL / PLUMBING / ELECTRICAL
CARLOS RIVAS
RIVERSIDE ENGINEERING INC.
11801 PIERCE STREET, SUITE #200
RIVERSIDE CA 92507
951.512.3280
INFO@RIV-ENG.COM

PROJECT INFORMATION

OCCUPANCY CLASSIFICATION: B (RESTAURANT) WITH OL UNDER 50

DESCRIPTION OF USE: RESTAURANT

TYPE OF CONSTRUCTION: 1A NON-COMBUSTABLE

DESCRIPTION OF USE: RESTAURANT UNDER 50 OCC.

SPRINKLERS: YES, EXISTING

STORIES: 1

HEIGHT: 10'-6"

FLOOR AREA: THIS T.I. = 453 SF

OCCUPANT LOAD: 33

ALLOWABLE AREA: ALLOWABLE = UNLIMITED

ALLOWABLE HEIGHT: 1 (ACTUAL) / UNLIMITED (ALLOWED)

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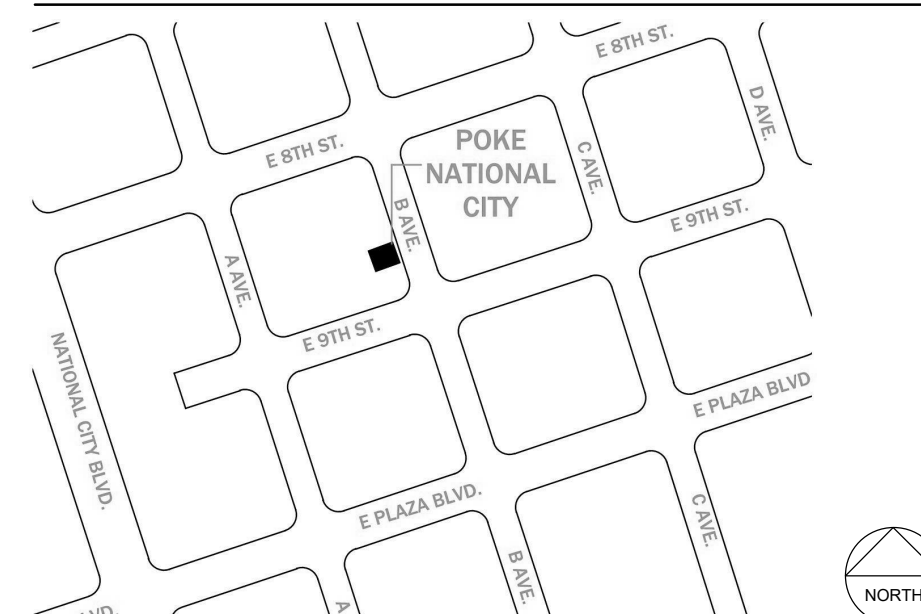
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SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATED THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

DEFERRED SUBMITTALS:

- FIRE ALARM
- FIRE SPRINKLER
- EXTERIOR FIRE HORN STROBE
- HOOD FIRE SUPPRESSION SYSTEM

VICINITY MAP



TITLE 24 ADA COMPLIANCE

Permit # 2019-8703 - ORIGINAL PERMIT

THE ACCESSIBLE ROUTE(S) OF TRAVEL SHALL BE THE MOST PRACTICAL DIRECT ROUTE BETWEEN ACCESSIBLE POINTS.

I AM THE DESIGNER/OWNER IN RESPONSIBLE CHARGE OF THIS PROJECT. I HAVE INSPECTED THE PREMISES AND DETERMINED THAT THE NEW RESTROOM(S) AND/OR AREA OF ALTERATION WILL BE FULLY ACCESSIBLE ACCORDING TO CURRENT CODE REQUIREMENTS.

SIGNATURE J. Artates

Print Name: JEREMY ARTATES

DATE 11/18/2022

I AM THE DESIGNER/OWNER IN RESPONSIBLE CHARGE OF THIS PROJECT, I HAVE INSPECTED THE SITE/PREMISES AND DETERMINED THAT EXISTING CONDITIONS SHALL BE MODIFIED IN FULL COMPLIANCE WITH CURRENT SITE ACCESSIBILITY REQUIREMENTS TO THE EXTENT REQUIRED BY LAW.

SIGNATURE J. Artates

Print Name: JEREMY ARTATES

DATE 11/18/2022

IF THE BUILDING INSPECTOR DETERMINES NON-COMPLIANCE WITH ANY CURRENT ACCESSIBILITY PROVISIONS OF THE LAW, HE/SHE SHALL REQUIRE SUBMITTAL OF COMPLETE AND DETAILED PLANS TO BUILDING AND SAFETY DIVISION OF THE DEVELOPMENT SERVICES DEPARTMENT FOR FURTHER REVIEW. PLANS MUST CLEARLY SHOW ALL EXISTING NON-COMPLYING CONDITIONS AFFECTED BY THE REMODEL (INCLUDING SITE PLAN, FLOOR PLANS, DETAILS, ETC.) AND PROPOSED MODIFICATIONS OF DEFICIENCIES TO MEET CURRENT ACCESSIBILITY PROVISIONS. THE PLANS MUST BE SIGNED AND DATED BY THE FIELD INSPECTOR PRIOR SUBMITTAL FOR PLAN REVIEW.

IF THE BUILDING INSPECTOR DETERMINES THAT FULL COMPLIANCE WITH CURRENT SITE ACCESSIBILITY REQUIREMENTS IS NOT PROVIDED, HE/SHE SHALL REQUIRE SUBMITTAL OF A DETAILED SITE PLAN FOR ADDITIONAL PLAN REVIEW AND COMMENTS.

6:Building and Safety\HANDOUTS\Title 24 ADA Compliance



DRAWN BY: JA
PROJECT # XX-XXX

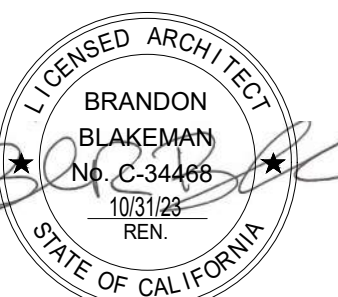
NUMBER	DESCRIPTION	DATE
1	NC REV 1	02/17/2023
3	NC REV 2	07/05/2023
4	NC REV 3	07/24/2023

SABOR PIRI PIRI TENANT IMPROVEMENT

800 B AVENUE SUITE 804
NATIONAL CITY CA 91950

PROJECT:

DRAWINGS PREPARED BY:



TITLE:

TITLE SHEET

SHEET:

G0.1

ABBREVIATIONS

Table of abbreviations and their corresponding full names, organized in multiple columns. Includes terms like AND, AT, ANCHOR BOLT, AIR CONDITIONING, etc.

SYMBOLS

Table of symbols and their meanings, including Grid Marker, Call Out, Center Line, Door Designation, Interior Elevation, Exterior Elevation, Keynote, Revision Tag, Section Designation, Wall Tag, and North Arrow.

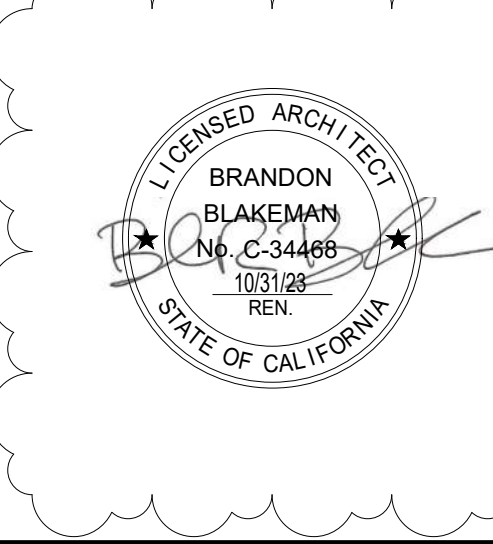


DRAWN BY: Author
PROJECT # XX-XXX

Table with columns: NUMBER, DESCRIPTION, DATE. Row 1: 4, NC REV 3, 07/24/2023.

PROJECT: SABOR PIRI PIRI TENANT IMPROVEMENT
800 B AVENUE SUITE 804
NATIONAL CITY CA 91950

DRAWINGS PREPARED BY:



TITLE:

GENERAL NOTES

SHEET:

G0.2

HEALTH DEPARTMENT NOTES:

FLOORS:

1. THE FLOOR SURFACES OF A FOOD ESTABLISHMENT MUST BE DURABLE, CLEANABLE, IMPERVIOUS TO WATER, FOOD, BY PRODUCTS AND CHEMICALS USED ON THE FLOOR FOR CLEANING OR OTHER PURPOSE.
2. FLOOR SURFACES IN ALL AREAS WHERE FOOD IS PREPARED, PACKAGED, DISPENSED OR STORED, WHERE UTENSILS IS WASHED, WHERE REFUSE OR GARBAGE IS STORED, WHERE JANITORIAL FACILITIES ARE LOCATED, IN ALL TOILET AND HAND WASHING AREAS AND IN EMPLOYEE CHANGE AND STORAGE ROOMS, IS TO BE OF AN APPROVED FLOOR SURFACE THAT CONTINUES UP THE WALL AT LEAST FOUR INCHES WITH A 3/8" MINIMUM RADIUS COVE AS AN INTEGRAL UNIT. THIS EXTENSION OF THE FLOOR INCLUDES TOE-KICKS OF COUNTERS AND EQUIPMENT THAT SETS FLUSH ON THE FLOOR. (VINYL RUBBER TOPSET COVE BASE IS NOT ACCEPTABLE).
3. FLOOR DRAINS ARE REQUIRED IN NEW TOILET ROOMS, IN AREAS WHERE DISH MACHINES ARE USED, IN JANITORIAL ROOMS WITH MOP SINKS, IN BARS EQUIPPED WITH BAR SINKS OR GLASS WASHERS, AND IN FLOOR OF WALK-IN COOLERS OR EQUIPMENT WHICH ARE CLEANED BY WATER FLUSHING OR WHERE PRODUCTS ARE ICED DOWN. THE FLOOR SURFACE NEEDS TO SLOPE TO THE FLOOR DRAINS (1/4" PER FOOT).
4. FLOORING UNDER EQUIPMENT SHALL BE COMPLETELY SMOOTH FOR CLEANABILITY. FLOOR SURFACES THAT CONTAIN ANTI-SLIP AGENTS OR SURFACES ARE LIMITED TO FOOT TRAFFIC AREAS ONLY.
5. ALL FLOOR MOUNTED EQUIPMENT WILL BE INSTALLED ON MINIMUM 6" SANITARY LEGS, CASTORS, OR COMPLETELY SEALED IN POSITION ON A 4" HIGH CURB WITH CONTINUOUSLY COVERED BASE, COUNTERTOP EQUIPMENT WILL BE ON 4-INCH SANITARY LEGS OR SEALED TO THE COUNTER UNLESS READILY MOVABLE.
6. THE FLOOR FINISH WILL HAVE A SMOOTH SURFACE UNDER ALL EQUIPMENT AND WALKWAYS WILL HAVE A LIGHT TEXTURE ONLY.
7. PRIOR TO INSTALLATION, SAMPLES OF FINISHES TO BE SUBMITTED TO ENVIRONMENTAL HEALTH FOR APPROVAL AS NEEDED

WALLS:

1. WALLS IN ALL AREAS EXCEPT THE DINING SPACES ARE REQUIRED TO BE DURABLE, SMOOTH SURFACED, LIGHT COLORED WITH AN EASILY CLEANABLE AND WASHABLE SURFACE. WALL SURFACES THAT CANNOT BE USED INCLUDE BRICK, CONCRETE BLOCK, ROUGH CONCRETE, ROUGH PLASTER, GROOVED PANELING, WALLPAPER, AND VINYL WALL COVERINGS. THESE SURFACES ARE EITHER TOO ROUGH, NOT CLEANABLE, OR DON'T HAVE SUFFICIENT DURABILITY.
2. ACCEPTABLE WALL SURFACES INCLUDE GLOSS OR SEMI-GLOSS ENAMEL PAINT, APPROVED EPOXY COATINGS, FIBER REINFORCED PLASTIC (FRP) PANELS, CERAMIC TILE (LIGHT COLORED), SYNTHETIC ENAMEL PAINT, OR OTHER APPROVED MATERIALS WITH A LIGHT REFLECTIVE VALUE (LRV) OF 70% OR MORE. POLISHED STAINLESS STEEL SHEETING IS ACCEPTABLE IN THESE AREAS. FRP AND METAL FLASHING SURFACES NEED TO BE SEALED TO THE SUB-WALL SURFACES.
3. WALL SURFACES BEHIND SINKS (POTS AND PANS, JANITORIAL, UTENSIL, FOOD PREPARATION, HAND BASINS) AND DISHWASHERS MUST HAVE A MINIMUM EIGHT (8) FOOT HIGH WATER RESISTANT OTHER APPROVED MATERIAL, FRP STAINLESS STEEL, CERAMIC TILE, OR OTHER APPROVED MATERIALS ARE ACCEPTABLE IN THESE AREAS. FRP AND METAL FLASHING SURFACES NEED TO BE SEALED TO THE SUB-WALL SURFACE.
4. WALL SURFACES OF TOILET ROOMS ARE REQUIRED TO BE SMOOTH SURFACED AND CLEANABLE. WALLS BEHIND HAND BASINS, TOILETS, AND URINALS WILL NEED WAINSCOTTING THAT COMPLIES WITH LOCAL BUILDING DEPARTMENT REQUIREMENTS. IF WAINSCOTTING IS REQUIRED, THE SURFACE NEEDS TO BE SMOOTH SURFACED, DURABLE, AND WATER RESISTANCE.
5. WALL SURFACES OF 70% LRV OR GREATER ARE NOT REQUIRED IN BARS WHERE ALCOHOLIC BEVERAGES ARE SOLD OR SERVED DIRECTLY TO THE CUSTOMER (EXCEPT BEHIND BAR SINKS, DINNING AND SALES AREAS, OFFICES, AND RESTROOMS THAT ARE USED EXCLUSIVELY BY PRATONS).
6. THE PAINT USED ON WALLS AND CEILINGS OF ALL KITCHEN, FOOD PREPARATION, WORK, AND STORAGE AREAS WILL BE A GLOSS OR SEMI GLOSS ENAMEL. FINISH MATERIAL SHALL BE A LIGHT COLOR IN FOOD PREP AREAS FOR EASY CLEANING.

CEILINGS:

1. CEILING SURFACES IN ALL FOOD PREPARATION AREAS ARE REQUIRED TO BE SMOOTH SURFACED, LIGHT-COLORED, AND EASILY CLEANABLE WITH A LIGHT REFLECTED VALUE (LRV) OF 70% OR MORE. ACCEPTABLE SURFACES INCLUDE GLOSS OR SEMI-GLOSS LIGHT COLORED ENAMEL PAINT, APPROVED EPOXY COATINGS, SMOOTH SURFACED LAY-IN VINYL PANELS (SMOOTH) MAY BE REQUIRED), AND SIMILAR APPROVED SURFACES.
2. BLOWN OR ACOUSTICAL CEILING MATERIAL AND TEXTURED LAYING ACOUSTICAL CEILING PANELS MAY BE USED ONLY IN DINNING ROOMS AND NON-FOOD PREPARATION OR HANDLING SPACES (E.G., HALLWAYS, PURE OFFICE SPACES, ETC.).
3. WAITRESS STATIONS, SALAD BARS, FOOD SERVING, OR SELF-SERVICE OPEN FOOD STATIONS OR OTHER STATIONS LOCATED IMMEDIATELY ADJACENT TO, OR IN THE DINING AREAS, NEED FOOD PREPARATION AREA REQUIREMENTS.

CONDUIT:

1. ALL PLUMBING, ELECTRICAL AND GAS LINES ARE REQUIRED TO BE CONCEALED WITHIN THE BUILDING STRUCTURE TO THE GREATEST EXTENT POSSIBLE ALL EXPOSED CONDUITS, PLUMBING, ETC., SHALL BE INSTALLED AT LEAST 6" OFF FLOOR AND 3/4 FROM LINEAR STANDOFF BRACKETS.
2. WHERE CIRCUMSTANCES EXIST (PRIMARILY STRUCTURAL LIMITATIONS OR RESTRICTIONS OF THE BUILDING) SO THAT IT IS NOT POSSIBLE TO INSTALL CONDUIT BEHIND THE WALLS, THEN ALL CONDUIT RUNS ARE TO BE LOCATED AT LEAST 3/4 INCH AWAY FROM THE WALLS OR CEILINGS, AND MINIMUM OF SIX INCHES ABOVE THE FLOOR. CONDUIT IS TO BE INSTALLED SO THAT IS IS SECURED.
3. WHERE CONDUIT OR PLUMBING LINES ENTER A WALL, CEILING OR FLOOR, THE OPENING AROUND THE CONDUIT OR PLUMBING IS REQUIRED TO BE TIGHTLY SEALED TO PREVENT THE ENTRY OF RODENTS OR VERMIN. THE SEALANT MATERIAL NEEDS TO BE ROUDENT PROOF.
4. CONDUIT, PLUMBING OR PIPING CANNOT BE INSTALLED ACROSS ANY AISLE WAY, TRAFFIC AREA OR DOOR OPENING.
5. MULTIPLE RUNS OR CLUSTERS OF CONDUIT OR PIPELINES ARE REQUIRED TO BE FURRED OUT AND ENCASED IN AN APPROVED RUNWAY OR OTHER SEALED ENCLOSURE.
6. FLOOR DRAINS SHALL BE INSTALLED IN FLOORS THAT ARE WATER FLUSHED FOR CLEANING AND IN AREAS WHERE PRESSURE SPRAY METHODS FOR CLEANING EQUIPMENT ARE USED, IN RESTROOMS, JANITORIAL ROOMS, SCULLERIES, AND AT BARS WITH WAREWASHING FLOOR SURFACES IN AREAS PURSUANT TO THIS SHALL BE SLOPED 1:50 TO THE FLOOR DRAINS. SHATTERSHIELDS WILL BE PROVIDED FOR ALL LIGHTS ABOVE FOOD PREPARATION, WORK, AND STORAGE AREAS.

HEALTH DEPARTMENT NOTES

1. THE ESTABLISHMENT MUST CONFORM TO THE APPROVED PLANS. ANY CHANGES SHOULD BE CHECKED BY THE PLAN CHECKER AT THE COUNTY OF SAN DIEGO ENVIRONMENTAL HEALTH
2. THERE MUST BE PROOF THAT THE BUILDING DEPT. AND FIRE DEPT. HAVE APPROVED THE ESTABLISHMENT ON SITE
3. UTILITIES (GAS, WATER, ELECTRICITY) MUST BE PROVIDED AT THE TIME OF INSPECTION
4. APPLICATION FOR A HEALTH PERMIT MUST HAVE BEEN MADE BEFORE FINAL APPROVAL TO OPEN
5. TOTAL SQUARE FOOTAGE OF THE ESTABLISHMENT IS 453 SQ. FT.
6. THE ESTABLISHMENT IS CONNECTED TO A MUNICIPAL SEWAGE SYSTEM
7. TYPE OF FOOD FACILITY: ___ 100% PRE-PACKAGED _X_ 100% SINGLE SERVICE ___ MULTISE UTENSILS
8. ALCOHOLIC BEVERAGES WILL BE CONSUMED IN THE PREMISES: ___ YES _X_ NO
9. ALL EQUIPMENT AND INSTALLATION TO MEET THE NATIONAL SANITATION FOUNDATION REQUIREMENTS (NSF) STANDARDS OR EQUIVALENT
10. FIXED, SINGLE SERVICE TOWEL OR HOT AIR BLOWERS AND SOAP DISPENSERS TO BE PROVIDED ADJACENT TO ALL HAND SINKS
11. ALL LAVATORIES OR HAND SINKS TO HAVE A COMBINATION FAUCET OR PRE-MIXING FAUCET CAPABLE OF SUPPLYING WARM WATER FOR A MINIMUM OF 10 SECONDS
12. JANITORIAL SINK FAUCETS TO BE APPROVED WITH AN APPROVED BACKFLOW PREVENTION DEVICE
13. COMMERCIAL WATER HEATER TO BE PROVIDED WHICH IS CAPABLE OF CONSTANTLY SUPPLYING HOT WATER AT A TEMPERATURE OF AT LEAST 120 DEGREES F TO ALL SINKS, HAND LAVATORIES AND OTHER CLEANUP FACILITIES

TRASH ENCLOSED:

A CONCRETE SLAB IS PROVIDED FOR TRASH, GARBAGE, AND GREASE CONTAINER, IF WALLS ENCLOSE AREA, THE INTERIOR WALL SURFACES WILL BE SMOOTH, SEALED AND WASHABLE (EG. PLASTERED SMOOTH AND PAINTED, ETC.)

REFRIGERATION:

1. ALL REFRIGERATION UNITS ARE REQUIRED TO HAVE AN ACCURATE, READILY VISIBLE WORKING THERMOMETER. THE THERMOMETER SHOULD BE PLACED IN THE WARMEST PART OF THE COMPARTMENT, USUALLY NEAR THE DOOR.
2. SHELVING OF THE REFRIGERATION UNITS NEEDS TO BE NONABSORBENT AND EASILY CLEANABLE. WOOD IS NOT AND ACCEPTABLE SHELVING MATERIAL.
3. THE INTERIOR OF THE REFRIGERATOR MUST HAVE SMOOTH, NONABSORBENT, AND EASILY CLEANABLE SURFACES. ALL JOINTS MUST BE SEALED
4. CONDENSATE WASTE FROM REACH-IN REFRIGERATOR UNITS MUST BE DRAINED INTO THE PUBLIC SEWER VIA A FLOOR SINK WITH LEGAL AIR GAP.
5. RAPID COOL DOWN FACILITIES MAY BE REQUIRED DEPENDING UPON THE FOOD OPERATION.

WALK IN REFRIGERATION UNITS:

1. THE FLOOR OF A WALK-IN REFRIGERATOR UNIT IS REQUIRED TO HAVE AN INTEGRAL COVE BASE WITH A RADIUS OF AT LEAST 3/8" AT THE FLOOR-WALL JUNCTION. THE FLOOR MATERIAL IS REQUIRED TO EXTEND UP THE WALL AT LEAST FOUR INCHES AND BE OF ONE-PIECE CONSTRUCTION. FOUR INCH APPROVED METAL TOPSET COVERING WITH A MINIMUM 3/8" RADIUS IS ACCEPTABLE ONLY AGAINST METAL WALL SURFACES OF WALK-IN UNITS.
2. THE INTERIOR WALLS OF THE WALK IN UNIT ARE REQUIRED TO BE SMOOTH SURFACED, LIGHT COLORED, MOISTURE PROOF, DURABLE, AND ABLE TO WITHSTAND PROLONGED EXPOSURE TO LOW TEMPERATURES.
3. SHELVING OF A WALK-IN UNIT IS REQUIRED TO BE LISTED BY NSF OR HAVE AN EQUIVALENT CERTIFICATION. THE SHELVING MUST KEEP FOODS OFF THE FLOOR OF THE WALKING UNIT MINIMUM OF SIX INCHES. BE LEGS, OR BE CANTILEVERED FROM THE WALL SURFACE FOR EASE CLEANING.
4. CONDENSATE WASTE LINES ARE REQUIRED TO DRAIN TO A FLOOR SINK VIA LEGAL AIR GAP. LOCATED OUTSIDE OF THE WALK IN UNIT. FLOOR SINKS, FLOOR DRAINS, OR SEWER CLEANOUTS ARE NOT PERMITTED INSIDE A WALK-IN REFRIGERATOR UNIT.
5. THE CONDENSATE LINE MUST BE ROUTED TO THE NEAREST WALL AND THEN EXIT THE WALK-IN UNIT. THE CONDENSATE LINE CANNOT BE LOCATED CLOSER THAN 3/4 INCH TO THE WALL OR CEILING. AND CLOSER THAN SIX INCHES TO THE FLOOR. THE CONDENSATE LINE MUST BE CONSTRUCTED OR RIGID PIPING THAT IS SECURED TO THE ADJACENT WALL WITH THE CLEARANCES AS INDICATED.
6. WALK-IN REFRIGERATOR UNITS ARE REQUIRED TO OPEN DIRECTLY INTO THE FOOD ESTABLISHMENT.
7. COLD STORAGE ROOMS SHALL BE PROVIDED WITH A SECTION OF SHELVING INSTALLED TO HOLD SHALLOW COOL DOWN PANS NOT TO EXCEED 4" IN HEIGHT SPACE BETWEEN SHELVING TO BE AT LEAST 8" HIGH.

FLOOR SINKS:

1. FLOOR SINKS ARE TO BE INSTALLED FLUSH WITH THE FLOOR SURFACE AND HAVE APPROPRIATE COVER GRATE(S).
2. FLOOR SINKS MUST BE INSTALLED SO THAT THEY ARE READILY ACCESSIBLE FOR INSPECTION, CLEANING, AND MAINTENANCE. PROTECTIVE ENCLOSURE WILL BE REQUIRED AROUND THE BACK SIDE OF HALF-EXPOSED FLOOR SINKS INSTALLED UNDER CURB OR BASE MOUNTED EQUIPMENT.
3. THE FLOOR SINK MUST BE LOCATED WITHIN FIFTEEN FEET OF THE DRAIN OPENING OF THE EQUIPMENT SERVED. HOWEVER, FLOOR SINKS FOR ICE MACHINES MUST BE LOCATED IMMEDIATELY ADJACENT TO THE ICE MACHINE.
4. WASTE LINE PLUMBING DRAINING TO THE FLOOR SINK MUST BE LOCATED AT LEAST 3/4 INCH FROM THE WALL AND SIX INCHES OFF THE FLOOR. THE PIPING IS TO TERMINATE AT LEAST ONE INCH ABOVE THE OVERFLOW RIM OF THE FLOOR SINK, OR THE MINIMUM CLEARANCE OF DISCHARGE PIPE).
5. WASTE LINE PLUMBING TO A FLOOR SINK MAY NOT CROSS ANY AISLE WAY, TRAFFIC AREA, OR DOOR OPENING.
7. ALL LIQUID WASTE SHALL BE DRAINED BY MEANS INDIRECT WASTE PIPES INTO A FLOOR SINK. FLOOR SINKS ARE TO BE INSTALLED FLUSH WITH THE FINISHED FLOOR SURFACE AND HAVE SUITABLE EASILY REMOVABLE SAFETY COVER GRATES.
8. FLOOR SINK TO BE 50% EXPOSED WHEN NO ACCESS IS PROVIDED FOR CLEANING OR BE IN LINE WITH THE FRONT FACE OF ELEVATED FREST ANDING EQUIPMENT.

KITCHEN UTENSIL SINK:

1. A THREE COMPARTMETN STAINLESS STEEL SINK WITH DUAL, INTEGRALLY INSTALLED STAINLESS STEEL DRAINBOARDS MEETING CURRENT NSF STANDARDS IS REQUIRED FOR FOOD ESTABLISHMENTS WASHING MULTI-SERVICE KITCHEN UTENSILS (I.E. POTS, PANS, KNIVES, UTENSILS, ETC.).
2. THE MINIMUM COMPARTMETN SIZE IS REQUIRED TO BE AT LEAST 18" BY 18" BY 12" DEEP. TEN DRAINBOARDS ARE REQUIRED TO BE A MINIMUM OF 18" BY 18" BY 18".
3. WHEN A SINK IS INSTALLED NEXT TO A WALL, A METAL "BACKSPLASH" EXTENDING UP THE ALL AT LEAST EIGHT INCHES WILL BE REQUIRED AS PART OF AND INTEGRAL TO THE SINK. THE BACKSPLASH NEEDS TO BE SEALED TO THE WALL TO CLOSE ANY GAPS BETWEEN THE SHEET METAL AND WALL SURFACE.
4. ALL FOOD-RELATED AND UTENSIL-RELATED EQUIPMENT SHALL MEET OR BE EQUIVALENT TO SANITATION STANDARS ESTABLISHED BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED PROGRAM.
5. ALL WAREWASHING SINKS TO HAVE 3 COMPARTMENTS THAT ARE MINIMUM SIZE OF AT LEAST 18"x18"x12" DEEP (OR 16"x20"x12") WITH A MINIMUM 18" DRAIN BOARD AT EACH END. IF AGAINST A WALL, IT MUST HAVE AN 8" INTEGRAL BACK SPLASH. HOWEVER, IT MUST BE CAPABLE OF ACCOMMODATING THE LARGEST UTENSIL TO BE WASHED. A WAREWASHING MACHINE DOES NOT SUBSTITUTE FOR THE SINK REQUIREMENT.
6. SINKS TO HAVE SPOUT(S) CAPABLE OF REACHING EACH COMPARTMENT.
7. THE 3 OR 4 COMPARTMENT BAR SINK TO BE AT LEAST 12"x12"x10" DEEP (OR 10"x14"x10" DEEP) WITH A MINIMUM 18" DRAINBOARD AT EACH END.

FOOD PREPARATION SINKS:

1. FOOD ESTABLISHMENTS UTILIZING A SINK FOR FOOD PREPARATION, SUCH AS

THAWING, WASHING, ETC., ARE REQUIRED TO HAVE AT LEAST A ONE COMPARTMENT FOOD PREPARATION SINK. SEPARATE FROM UTENSIL WASHING SINKS. THE FOOD PREPARATION SINK IS REQUIRED TO DRAIN TO AN ADJACENTLY LOCATED FLOOR SINK VIA LEGAL AIR GAP.

2. FOOD PREPARATION SINKS MUST MEET ALL NSF STANDARDS.
3. FOOD PREP SINK COMPARTMENT(S) TO BE AT LEAST 18"x18"x12" DEEP (OR 16"x20"x12" DEEP) WITH A MINIMUM 18" DRAINBOARD SEPARATE FOOD PREP SINKS TO BE PROVIDED FOR MEATS AND PRODUCE.
4. A SEPARATE WET WASTE DUMP FIXTURE SHALL BE PROVIDED FOR DISPOSAL OF DRINK OR WASTE ICE OR COFFEE WASTE DRAINBOARD AT EACH END.

DISHWASHERS/GLASS WASHERS

1. ALL AUTOMATIC DISHWASHERS, PAN WASHERS, AND GLASS WASHERS MUST BE LISTED BY THE NATIONAL SANITATION FOUNDATION INTERNATIONAL (NSF) IN THE LATEST ISSUE OF STANDARD #3. DEVICES NOT LISTED IN STANDARD #3 MAY NOT BE USED IN PUBLIC FOOD ESTABLISHMENTS.
2. ALL SPRAY TYPE DISHWASHERS, PAN WASHERS AND GLASS WASHERS WHICH ARE DESIGNED FOR A HOT WATER BACTERICIDAL RINSE ARE REQUIRED TO BE PROVIDED WITH A BOOSTER HEATER THAT MEETS THE REQUIREMENTS OF STANDARD #6 OF THE NSF INTERNATIONAL, OR BE CONNECTED TO AN APPROVED HOT WATER RECIRCULATING SYSTEM WHICH IS CAPABLE OF MAINTAINING THE RINSE WATER AT NOT LESS THAN 180EF. THESE TYPES OF DISHWASHERS WILL REQUIRE THE INSTALLATION OF AN APPROVED EXHAUST HOOD TO REMOVED STEAM, HEAT AND VAPORS GENERATED BY THE DISHWASHING MACHINE.
3. DISHWASHERS, PAN WASHERS, AND GLASS WASHERS ARE REQUIRED TO HAVE TOW INTEGRAL STAINLESS STEEL DRAINBOARDS AT LEAST 18 INCHES LONG.
4. THE DISHWASHER MUST ALSO BE PROVIDED WITH THERMOMETERS AND PRESSURE GAUGES TO INDICATE THE PROPER WATER FLOOR PRESSURES AND TEMPERATURES.
5. ALL WASTE FROM DISHWASHERS, PAN WASHERS, AND GLASS WASHERS ARE REQUIRED TO DRAIN TO AN ADJACENT FLOOR SINK VIA LEGAL AIR GAP. THE UNDER DRAIN PLUMBING FOR THE FLOOR SINK MUST HAVE A MINIMUM 3" TRAP.
6. UNDERCOUNTER-TYPE AUTOMATIC DISHWASHERS NEED TO BE PLACED ON CURBING IF THE MACHINE IS NOT MOUNTED ON CASTERS.

JANITORIAL SINK AND SUPPLIES:

1. THE JANITORIAL SINK IS REQUIRED TO BE LOCATED IN A SEPARATE JANITORIAL ROOM OR SEPARATED FROM THE REST OF THE FOOD ESTABLISHMENT EQUIPMENT WITH 18" OF HORIZONTAL DISTANCE OR BY A SOLID PARTITION. THE PARTITION MUST BE WALL MOUNTED, FREE STANDING, DURABLE, SMOOTH, AND EASILY CLEANABLE.
2. ALL JANITORIAL SINKS ARE TO BE SUPPLIED WITH HOT AND COLD RUNNING WATER TO A MIXING TYPE FAUCET WITH 3/4" HOSE OUTLET. THE FAUCET FIXTURE IS TO HAVE AN APPROVED BACK-FLOW PREVENTION DEVICE ATTACHED.
3. FOR CLEANING FLOOR MATS, THE JANITORIAL SINK TO BE A MINIMUM 24" BY 36" FLOOR MOUNTED TYPE. MOPS SHALL BE PLACED IN A POSITION THAT ALLOWS THEM TO AIR-DRY WITHOUT SOILING WALLS, EQUIPMENT, OR SUPPLIES.
4. THE JANITORIAL SINK FAUCET WILL HAVE A THREADED OUTER LIP FOR HOSE ATTACHMENT AND AN APPROVED BACKFLOW PREVENTION DEVICE. NO CHEMICAL DISPENSING SYSTEM OR SHUTOFF VALVES TO BE ATTACHED TO MOP SINK FAUCET OUTLET (UNLESS A "SIDEKICK" PLUMBING DEVICE IS INSTALLED).
5. NO CONDENSATE WASTEWATER INCLUDING HVAC WILL DRAIN INTO THE JANITORIAL SINK.

HANDWASHING SINKS:

1. HANDSINKS ARE REQUIRED TO BE PLACED IN EACH FOOD PREPARATION AREA. EACH HANDWASH SINK SHALL PROVIDE HOT AND COLD RUNNING WATER UNDER PRESSURE THROUGH A MIXING TYPE FAUCET IS REQUIRED.
2. SOAP AND SANITARY TOWELS ARE REQUIRED TO BE PROVIDED IN SINGLE-SERVICE, PERMANENTLY INSTALLED DISPENSERS AT EACH HANDSINK.
3. A SEPARATE HANDSINK MUST BE INSTALLED IN EACH SECTION OF A FOOD ESTABLISHMENT WHICH HANDLES UNPACKAGED FOOD (I.E. DELI MEAT BAKERY BEVERAGE BARS, SUSHI BAR, BAR, ECT.).
4. IF A HANDSINK IS LOCATED DIRECTLY ADJACENT TO A FOOD PREPARATION OR UTENSIL-WASHING SINK, THEN A BARRIER IS REQUIRED TO PREVENT SPLASH OVER FROM THE HANDSINK TO THE FOOD PREPARATION/UTENSIL SINK. THE BARRIER IS TO BE THE LENGTH OF THE SINK AND AT LEAST TWELVE INCHES HEIGHT & WATERPROOF.

DRY FOOD AND BEVERAGE STORAGE:

1. AT LEAST NINETY-SIX FEET OF APPROVED SHELVING UNITS ARE REQUIRED FOR BACK-UP DRY STORAGE SPACE.
2. SHELVING NEEDS TO BE DESIGNED AND CONSTRUCTED SO AS TO BE EASILY CLEANABLE. SHELVING LOCATED OVER SINKS AND OTHER WET AREAS MUST BE CONSTRUCTED OF METAL.
3. SHELVES INSTALLED ON A WALL ARE TO HAVE A MINIMUM ONE INCH GAP OR OPEN SPACE BETWEEN THE BACK EDGE OF THE SHELF AND THE WALL SURFACE.
4. THE LOWEST SHELF MUST BE CONSTRUCTED AT LEAST SIX INCHES ABOVE THE FLOOR SURFACE WITH THE SPACE UNDER THE SHELF CLEAR AND UNOBSTRUCTED FOR CLEANING ACCESS UNDERNEATH. IF THE SPACE BELOW IS NOT TO BE ACCESSIBLE, THEN THE OPENING IS TO BE SEALED OFF, WITH THE FLOOR SURFACE COVING UP THE SEAL FACE CONTINUOUSLY A MINIMUM OF FOUR INCHES WITH A 3/8 INCH RADIUS.
5. THE SHELVING IS MOUNTED ON LEGS ARE TO BE AT LEAST SIX INCHES IN HEIGHT AND CONSTRUCTED OF METAL MEETING THE REQUIREMENTS OF THE NSF FOR METAL LEGS.
6. BACKUP DRY STORAGE SHELVING SHALL BE A MINIMUM 96 LINEAR FEET (MEASURED WITH TIERS) OR 25% OF KITCHEN, FOOD PREP, AND WORK AREAS, WHICHEVER IS GREATER. SHELVING SHALL BE AT LEAST 18 INCHES DEEP AND START A MINIMUM SIX INCHES OFF THE FLOOR SURFACE.

RESTROOMS:

1. TOILET FACILITIES ARE REQUIRED WITHIN EACH FOOD FACILITY AND MUST BE ACCESSIBLE FOR THE EMPLOYEES. EXISTING TOILET FACILITIES MUST BE MINIMUM OF TWENTY SQUARE FEET IN FLOOR SURFACE AREA. NEWLY CONSTRUCTED TOILET ROOMS WILL BE LARGER IN ORDER TO COMPLY WITH HANDICAP REQUIREMENTS UNDER AMERICANS WITH DISABILITIES ACT (ADA).
2. TOILET ROOM DOORS SHALL BE SELF-CLOSING AND TIGHT FITTING WITH A 1" AIR GAP.
3. ALL TOILET ROOMS SHALL BE PROVIDED WITH VENTILATION MEETING THE REQUIREMENTS OF THE UNIFORM MECHANICAL CODE AND/OR UNIFORM BUILDING CODE.

MISCELLANEOUS ITEMS:

WATER SUPPLY TO CARBONATORS SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACK FLOW PREVENTOR. THE RELIEF VALVE SHALL DRAIN INDIRECTLY TO SEWER WITH A LEGAL AIR GAP.

2. WATER TYPE STEAM TABLES, STEAM KETTLES, WOKS, AND OTHER WATER EQUIPMENT MUST HAVE A FILL FAUCET FOR REPLENISHING/ADDING WATER TO THE DEVICE. THESE DEVICES ALSO NEED TO BE PROPERLY DRAINED TO A FLOOR SINK WITH

1. A LEGAL AIR GAP SEPARATION
3. IF SOFT DRINK, ICE, OR OTHER DISPENSERS ARE SELF-SERVICE BY THE CUSTOMER, THEN THEY MUST BE OF THE PUSH-BUTTON TYPE OR OTHER APPROVED DISPENSER WHERE THE CUP IS NOT USED IN THE ACTUATION OF THE DISPENSERS SHOULD BE PROVIDED AT THE SELF-SERVICE AREAS.

CLOTHING CHANGE ROOMS/AREA:

A SEPARATE CHANGE ROOM FOR EACH SEX, OF AT LEAST TWENTY SQUARE FEET IN FLOOR SURFACE AREA, SEPARATE FROM TOILETS, FOOD STORAGE OR FOOD PREPARATION AREAS IS REQUIRED WHERE THERE ARE TEN OR MORE EMPLOYEES PER SHIFT. ADDITIONALLY, SEPARATE CHANGE ROOMS ARE REQUIRED WHEN EQUIPMENT IS USED. THE CHANGE ROOMS ARE TO BE INSTALLED ON MINIMUM 6" SANITARY LEGS, CASTORS, OR COMPLETELY SEALED IN POSITION ON A 4" HIGH CURB WITH CONTINUOUSLY COVERED BASE. COUNTERTOP EQUIPMENT WILL BE ON 4-INCH SANITARY LEGS OR SEALED TO THE COUNTER UNLESS READILY MOVABLE.

4. SOFT DRINK, ICE OR OTHER DISPENSERS ARE SELF-SERVICE. IF REFILLS ARE PROVIDED THEY MUST BE PUSH BUTTON TYPES, OR LEVER TYPES WHERE THE LEVER CONTACTS THE CONTAINER AT LEAST ONE INCH BELOW THE RIM.
5. ANY OPENABLE WINDOWS VENT OPENINGS OR OTHER SIMILAR OPENINGS MUST BE PROVIDED WITH TIGHT FITTING SCREENS OF MINIMUM 16-MESH TO THE INCH. WINDOWS TO BE FIXED AT FOOD PREP, UTENSIL-WASHING, OPEN FOOD AND UTENSIL STORAGE AREAS.
6. ALL EXTERIOR DOORS OPEN OUTWARD AND ARE SELF-CLOSING AND TIGHT FITTING.

LIGHTING:

1. A MINIMUM OF TWENTY (20) FOOT CANDLES OF LIGHT, AS MEASURED THIRTY (30) INCHES ABOVE THE FLOOR IS NECESSARY IN FOOD PREPARATION AREAS DISHWASHING AREAS AND THE GLASS WASHING AREAS OF BARS (EXCEPT WHERE ALCOHOLIC BEVERAGES ARE SERVED).
2. A MINIMUM OF (10) FOOT-CANDLES OF LIGHT IS NECESSARY IF FOOD AND UTENSIL STORAGE ROOMS, BAR WASHING, REFRIGERATION STORAGE SPACES, TOILET ROOMS AND DRESSING ROOMS.
3. SHATTER SHIELDS WILL BE PROVIDED FOR ALL LIGHTS ABOVE FOOD PREPARATION, WORK, AND STORAGE AREAS.
4. A MINIMUM OF 10 FOOT CANDLES OF LIGHT MEASURED 30" OFF FLOOR IS PROVIDED IN WALK, IN REFRIGERATED STORAGE AND DRY STORAGE ROOMS AND AT LEAST 20 FOOT CANDLES IS PROVIDED WHERE FOOD IS PROVIDED CONSUMER SELF-SERVICE. WHERE FRESH PRODUCE OR PREPACK AGED FOODS ARE SOLD OR OFFERED FOR CONSUMPTION INSIDE EQUIPMENT SUCH AS REACH-IN AND UNDER-COUNTER REFRIGERATORS, IN AREAS USED FOR HANDWASHING, WAREWASHING, EQUIPMENT AND UTENSIL STORAGE, AND IN TOILET ROOMS.
11. A MINIMUM OF 50 FOOT-CANDLES OF LIGHT MEASURED 30" OFF FLOOR IS PROVIDED WHEN WORKING WITH FOOD OR WORKING WITH UTENSILS OR EQUIPMENT SUCH AS KNIVES, SLICERS, GRINDERS, OR SAWS WHERE EMPLOYEE SAFETY IS A FACTOR AND IN ALL AREAS DURING PERIODS OF CLEANING.
12. SHATTERSHIELDS FOR ALL LIGHTS ABOVE FOOD PREPARATION, WORK, AND STORAGE AREAS WILL BE PROVIDED.
13. ALL WAREWASHING SINKS TO HAVE 3 COMPARTMENTS THAT ARE A MINIMUM SIZE OF AT LEAST 18"x18"x12" DEEP (OR 16"x20"x12" DEEP) WITH A MINIMUM 18" DRAINBOARD AT EACH END. IF AGAINST A WALL, IT MUST HAVE AN 8" INTEGRAL BACKSPLASH. HOWEVER, IT MUST BE CAPABLE OF ACCOMMODATING THE LARGEST UTENSIL TO BE WASHED. A WAREWASHING MACHINE DOES NOT SUBSTITUTE FOR THE SINK REQUIREMENT.
14. SINKS TO HAVE SPOUT(S) CAPABLE OF REACHING EACH COMPARTMENT.
15. FOOD PREP SINK COMPARTMENT(S) TO BE AT LEAST 18"x18"x12" DEEP (OR 16"x20"x12" DEEP) WITH A MINIMUM 18" DRAINBOARD. SEPARATE FOOD PREP SINKS TO BE PROVIDED FOR MEATS AND PRODUCE.
16. THE 3 OR 4 COMPARTMENT BAR SINK TO BE AT LEAST 12"x12"x10" DEEP (OR 10"x14"x10" DEEP) WITH A MINIMUM 18" DRAINBOARD AT EACH END.
17. A SEPARATE WET WASTE DUMP FIXTURE SHALL BE PROVIDED FOR DISPOSAL OF DRINK OR WASTE ICE OR COFFEE WASTE.
18. EACH HANDWASHING SINK MUST HAVE PERMANENTLY MOUNTED SINGLE-SERVICE SOAP AND PAPER TOWEL DISPENSERS.
19. THE HOT WATER HEATER WILL BE COMMERCIAL TYPE CAPABLE OF CONSTANTLY SUPPLYING HOT WATER AT A TEMPERATURE OF 120°F TO ALL SINKS. IN SIZING THE WATER HEATER, THE PEAK HOURLY DEMAND FOR ALL SINKS, ETC., ARE ADDED TOGETHER TO DETERMINE THE MINIMUM REQUIRED RECOVERY RATE.
20. ALL LAVATORIES OR HAND SINKS WILL HAVE A COMBINATION FAUCET OR PRE-MIXING TYPE. THE WATER SUPPLY TO CARBONATORS WILL BE PROTECTED BY A SELF-CLOSING OR METERED FAUCET TO PROVIDE AT LEAST 15 SECONDS OF WATER WITHOUT REACTIVATION.
21. ALL PLUMBING, ELECTRICAL AND GAS LINES SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE TO AS GREAT AN EXTENT AS POSSIBLE. ALL EXPOSED CONDUITS, PLUMBING, ETC. SHALL BE INSTALLED AT LEAST 6" OFF FLOOR AND 3/4" FROM WALLS USING STANDOFF BRACKETS.
22. CONDUITS, PLUMBING OR PIPING CANNOT BE INSTALLED ACROSS ANY AISLE WAY, TRAFFIC AREA, OR DOOR OPENING.
23. MULTIPLE RUNS OR CLUSTERS OF CONDUIT OR PIPELINES SHALL BE FURRED IN OR ENCASED IN AN APPROVED SEALED ENCLOSURE.
24. ALL LIQUID WASTE SHALL BE DRAINED BY MEANS OF INDIRECT WASTE PIPES INTO A FLOOR SINK. FLOOR SINKS ARE TO BE INSTALLED FLUSH WITH THE FINISHED FLOOR SURFACE AND HAVE SUITABLE EASILY REMOVABLE SAFETY COVER GRATES.
25. FLOOR SINK TO BE 50% EXPOSED WHEN NO ACCESS IS PROVIDED FOR CLEANING OR BE IN LINE WITH THE FRONT FACE OF ELEVATED FREESTANDING EQUIPMENT.
26. APPROVED BACKFLOW PREVENTION DEVICES SHALL BE PROPERLY INSTALLED UPSTREAM OF ANY POTENTIAL HAZARD BETWEEN THE POTABLE WATER SUPPLY AND A SOURCE OF CONTAMINATION. HOSES SHALL NOT BE ATTACHED TO A FAUCET OR HOSE BIBB UNLESS AN APPROVED BACKFLOW PREVENTER IS PROVIDED.
27. WATER SUPPLY TO CARBONATORS SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTOR. THE RELIEF VALVE SHALL DRAIN INDIRECTLY TO SEWER WITH A LEGAL AIR GAP.
28. FOR CLEANING FLOOR MATS, THE JANITORIAL SINK TO BE A MINIMUM 24" BY 36" FLOOR MOUNTED TYPE. MOPS SHALL BE PLACED IN A POSITION THAT ALLOWS THEM TO AIR-DRY WITHOUT SOILING WALLS, EQUIPMENT, OR SUPPLIES.
29. THE JANITORIAL SINK FAUCET WILL HAVE A THREADED OUTER LIP FOR HOSE ATTACHMENT AND AN APPROVED BACKFLOW PREVENTION DEVICE. NO CHEMICAL DISPENSING SYSTEMS OR SHUTOFF VALVES TO BE ATTACHED TO MOP SINK FAUCET OUTLET (UNLESS A "SIDEKICK" PLUMBING DEVICE IS INSTALLED).
30. NO CONDENSATE OR WASTEWATER INCLUDING HVAC WILL DRAIN INTO THE JANITORIAL SINK.
31. GREASE TRAP TO BE LOCATED OUTSIDE THE FOOD SERVICE ACTIVITY AREA, FLUSH WITH THE FINISHED FLOOR WHEN INDOORS. LOCAL WASTEWATER DISTRICT OR BUILDING DEPARTMENT TO BE CONTACTED FOR GREASE REMOVAL REQUIREMENTS.
32. FLOOR DRAINS SHALL BE INSTALLED IN FLOORS THAT ARE WATER-FLUSHED FOR CLEANING AND IN AREAS WHERE PRESSURE SPRAY METHODS FOR CLEANING EQUIPMENT ARE USED, IN RESTROOMS, JANITORIAL ROOMS, SCULLERIES, AND AT BARS WITH WAREWASHING FLOOR SURFACES IN AREAS PURSUANT TO THIS SHALL BE SLOPED 1:50 TO THE FLOOR DRAINS.
33. ADEQUATE VENTILATION IS TO BE PROVIDED TO ALL TOILET ROOMS, JANITOR CLOSETS WITH MOP SINKS, AND INDOOR TRASH ROOMS AND IN DRESSING/CHANGE ROOM(S).
34. THE FLOOR FINISH WILL HAVE A SMOOTH SURFACE UNDER ALL EQUIPMENT AND WALKWAYS WILL HAVE A LIGHT TEXTURE ONLY.
35. THE PAINT USED ON WALLS AND CEILINGS OF ALL KITCHEN, FOOD PREPARATION, WORK, AND STORAGE AREAS WILL BE A GLOSS OR SEMI-GLOSS ENAMEL. FINISH MATERIAL SHALL BE A LIGHT COLOR IN FOOD PREP AREAS FOR EASY CLEANING.
36. PRIOR TO INSTALLATION, SAMPLES OF FINISHES TO BE SUBMITTED TO ENVIRONMENTAL HEALTH FOR APPROVAL AS NEEDED.
37. COLD STORAGE ROOMS SHALL BE PROVIDED WITH A SECTION OF SHELVING INSTALLED TO HOLD SHALLOW COOL DOWN PANS -NOT TO EXCEED 4" IN HEIGHT. SPACE BETWEEN SHELVING TO BE AT LEAST 8" HIGH.
38. BACKUP DRY STORAGE SHELVING SHALL BE A MINIMUM OF 96 LINEAR FEET (MEASURED WITH TIERS) OR 25% OF KITCHEN, FOOD PREP, AND WORK AREAS, WHICHEVER IS GREATER. SHELVING SHALL BE AT LEAST 18 INCHES DEEP AND START A MINIMUM SIX INCHES OFF THE FLOOR SURFACE.
39. SHELVING OVER WET AREAS (SINKS, MOP SINKS ETC.) AND FOOD PREP SURFACES WILL BE METAL.
40. ALL SEAMS, GAPS, OPENINGS TO BE PROPERLY SEALED.

VENTILATION:

1. A MINIMUM OF TWELVE (12) AIR CHANGES PER HOUR IS NEEDED IN ALL TOILET ROOMS, JANITOR CLOSETS WITH MOP SINKS, ANTEROOMS LEADING TO TOILET ROOMS, AND DRESSING ROOMS. THE RATING OF EXHAUST FAN, EXPRESSED IN CUBIC FEET PER HOUR, MUST BE AT LEAST 100 CUBIC FEET PER HOUR. THE RATING OF EXHAUST FAN, EXPRESSED IN CUBIC FEET PER HOUR, MUST BE AT LEAST 100 CUBIC FEET PER HOUR. THE RATING OF EXHAUST FAN, EXPRESSED IN CUBIC FEET PER HOUR, MUST BE AT LEAST 100 CUBIC FEET PER HOUR. THIS VENTILATION, THE LIGHT SWITCH FOR THE ROOM SHOULD ACTIVATED EXHAUST FANS IN THESE AREAS. MECHANICAL EXHAUST FANS ARE TO EXHAUST ONLY TO THE OUTSIDE AIR. DEAD SPACE EXHAUSTING IS NOT PERMITTED.
2. AN ACCEPTABLE ALTERNATIVE METHOD OF VENTILATION FOR TOILETS, TOILET ANTEROOMS, AND DRESSING ROOMS MAY BE A SCREENED WINDOW OPENING OF AT LEAST 1.67 SQUARE FEET IN AREA, ONE-HALF OF WHICH IS OPEN AREA.
3. DUCTLESS FANS ARE NOT APPROVED FOR VENTILATION USE.
4. ANY OPENABLE WINDOWS VENT OPENINGS OR OTHER SIMILAR OPENINGS MUST BE PROVIDED WITH TIGHT FITTING SCREENS OF MINIMUM 16 MESH TO THE INCH.
5. ALL EXTERIOR DOORS OPEN OUTWARD AND APE SELF-CLOSING AND TIGHT FITTING.
6. DELIVERY DOORS TO HAVE AIR CURTAIN FANS THAT SPAN THE WIDTH OVER THE DOOR. THE FAN MUST ACTIVATE VIA A MICROSWITCH PROVIDING A MINIMUM VELOCITY.
7. OF 1600 FPM MEASURED 3 FEET ABOVE THE GROUND.
7. ADEQUATE VENTILATION IS TO BE PROVIDED TO ALL TOILETS ROOMS, JANITOR CLOSETS WITH MOP SINKS, AND INDOOR TRASH ROOMS AND IN DRESSING/CHANGE ROOM(S).

EQUIPMENT:

1. ALL NEW AND REPLACEMENT EQUIPMENT SHALL MEET OR BE EQUIVALENT TO APPLICABLE NSF INTERNATIONAL STANDARDS.
2. ALL EQUIPMENT SHALL BE PLACED ON MINIMUM SIX INCH HIGH, NSF INTERNATIONAL.
3. EQUIPMENT SHALL BE PLACED ON MINIMUM SIX INCH HIGH, NSF INTERNATIONAL.
3. EQUIPMENT SHALL BE PLACED ON MINIMUM SIX INCH HIGH, NSF INTERNATIONAL. OR COMPLETELY SEALED IN POSITION ON A FOUR INCH HIGH CONTINUOUSLY COVERED BASE OR CONCRETE CURB, OR ON APPROVED CASTERS, OR CANTILEVERED FROM THE WALL IN AN APPROVED MANNER.
3. SHELVING OVER WET AREAS (SINK, MOP, ETC) AND FOOD PREP SURFACES WILL BE METAL.

BACKFLOW PREVENTION:

1. ANY TYPE OF DRAIN DISPENSING INTO A FLOOR SINK REQUIRES A LEGAL AIR GAP SEPARATION OF NO LESS THAN ONE INCH SEALED VERTICALLY FROM THE END OF THE DISCHARGE PIPE TO THE OVERFLOW RIM OF THE FLOOR SINK AND/OR AN AIR GAP.
2. ANY TYPE OF DRAIN DISPENSING INTO A FLOOR SINK REQUIRES A LEGAL AIR GAP SEPARATION WHICH IS TWICE THE DIAMETER OF THE DISCHARGE PIPE, WHICHEVER IS GREATER.
2. SUBMERGED INLETS REQUIRED BACKFLOW PREVENTION DEVICES INSTALLED CONSISTENT WITH THE REQUIREMENTS OF THE LOCAL PLUMBING INSPECTOR
3. APPROVED BACK FLOW PREVENTION DEVICES SHALL BE PROPERLY INSTALLED UPSTREAM ANY POTENTIAL HAZARD BETWEEN THE POTABLE WATER SUPPLY AND A SOURCE OF CONTAMINATION, HOSES SHALL NOT BE ATTACHED TO A FAUCET OR HOSE BIBB UNLESS AN APPROVED BACKFLOW PREVENTERS IS PROVIDED.
4. WATER SUPPLY TO CARBONATORS SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTED. THE RELIEF VALVE SHALL DRAIN INDIRECTLY TO SEWER WITH A LEGAL AIR GAP M

GREASE TRAPS/INTERCEPTORS-SEWAGE DISPOSAL:

1. GREASE TRAPS (LARGE VOLUME TANK) ARE TO BE INSTALLED OUTSIDE OF THE FOOD ESTABLISHMENT. THESE LARGE VOLUME TANKS ARE INSTALLED IN THE GROUND.
2. GREASE TRAPS (SMALL VOLUME TANK) SHALL BE INSTALLED OUTSIDE OF A FOOD ESTABLISHMENT (WHEREVER POSSIBLE) IN ACCORDANCE TO WITH PLUMBING CODES.
3. GREASE TRAP TO BE LOCATED OUTSIDE THE FOOD SERVICE ACTIVITY AREA. FLUSH WITH THE FINISHED FLOOR WHEN INDOORS. LOCAL WASTE WATER DISTRICT OR BUILDING DEPARTMENT TO BE CONTACTED FOR GREASE REMOVAL REQUIREMENTS

ENVIRONMENTAL HEALTH NOTES

THE FOLLOWING ENVIRONMENTAL HEALTH NOTES ARE TO BE PLACED ON YOUR PLANS TO ASSIST IN PROVIDING CLEAR DIRECTION BETWEEN THOSE INVOLVED IN THE ACTUAL CONSTRUCTION OF A FOOD FACILITY INCLUDING CONTRACTORS AND ENVIRONMENTAL HEALTH SPECIALISTS. THESE NOTES WILL ENCOMPASS MOST FOOD FACILITIES BUT ARE NOT MEANT TO BE COMPREHENSIVE FOR ALL FOOD FACILITIES OR SITUATIONS:

1. A CONCRETE SLAB IS PROVIDED FOR TRASH, GARBAGE, AND GREASE CONTAINER. IF WALLS ENCLOSE AREA, THE INTERIOR WALL SURFACES WILL BE SMOOTH, SEALED AND WASHABLE (E.G. PLASTERED SMOOTH AND PAINTED, ETC.)
2. ALL FOOD-RELATED AND UTENSIL-RELATED EQUIPMENT SHALL MEET OR BE EQUIVALENT TO SANITATION STANDARDS ESTABLISHED BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED PROGRAM.
3. ALL FLOOR MOUNTED EQUIPMENT WILL BE INSTALLED ON MINIMUM 6" SANITARY LEGS, CASTORS, OR COMPLETELY SEALED IN POSITION ON A 4" HIGH CURB WITH CONTINUOUSLY COVERED BASE. COUNTERTOP EQUIPMENT WILL BE ON 4-INCH SANITARY LEGS OR SEALED TO THE COUNTER UNLESS READILY MOVABLE.
4. SOFT DRINK, ICE OR OTHER DISPENSERS ARE SELF-SERVICE. IF REFILLS ARE PROVIDED THEY MUST BE PUSH BUTTON TYPES, OR LEVER TYPES WHERE THE LEVER CONTACTS THE CONTAINER AT LEAST ONE INCH BELOW THE RIM.
5. ANY OPENABLE WINDOWS VENT OPENINGS OR OTHER SIMILAR OPENINGS MUST BE PROVIDED WITH TIGHT FITTING SCREENS OF MINIMUM 16-MESH TO THE INCH. WINDOWS TO BE FIXED AT FOOD PREP, UTENSIL-WASHING, OPEN FOOD AND UTENSIL STORAGE AREAS.
6. ALL EXTERIOR DOORS OPEN OUTWARD AND ARE SELF-CLOSING AND TIGHT FITTING.
7. BI-FOLD, FRENCH, ACCORDION STYLE AND ROLL-UP DOORS CANNOT OPEN INTO THE FOOD PREP, UTENSIL WASHING OR UNPACKAGED FOOD SERVICE AREAS.
8. TOILET ROOM AND DRESSING ROOM DOORS MUST BE SELF-CLOSING, TIGHT FITTING.
9. DELIVERY DOORS TO HAVE AIR CURTAIN FANS THAT SPAN THE WIDTH OVER THE DOOR. THE FAN MUST ACTIVATE VIA A MICROSWITCH PROVIDING A MINIMUM VELOCITY OF 1600 FPM MEASURED 3 FEET ABOVE THE GROUND.
10. A MINIMUM OF 10 FOOT-CANDLES OF LIGHT MEASURED 30" OFF FLOOR

GENERAL NOTES

WALL AND CEILING MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
ALL FOOD-RELATED AND UTENSIL-RELATED EQUIPMENT SHALL MEET OR BE EQUIVALENT TO SANITATION STANDARDS ESTABLISHED BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED PROGRAM.
EXISTING GREASE TRAP WILL BE CLEANED ONCE A MONTH BY A SPECIALIZED COMPANY
EXISTING COMMUNAL RESTROOMS SERVES EMPLOYEES AND CONSUMERS.
NOTE: EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES AND SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES.
DOOR WILL MAINTAIN 'UNLOCK' POSITION DURING BUSINESS HOURS
ACCESS ONLY FOR EMPLOYEES
ONE INCH AIR GAP TO FLOOR SINK FROM INDIRECT DISCHARGE OF 3 COMP SINK, PREP SINK AND WATER HEATER
FRONT COUNTER (CASHIER AND DELIVERY AREA) COMPLIES WITH ADA STANDARDS
PARTITION WALL 2X6" HIGH MIN. ANCHORED TO WALL AND CEILING COVERED WITH FRP PANEL.

GENERAL CONSTRUCTION NOTES

- 1. ALL CONSTRUCTION AND MATERIALS SHALL BE AS SPECIFIED AND IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, LAWS PERMITS AND THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE PLACEMENT OF ALL NEW CONSTRUCTION ON THE SITE.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. SHOULD A DESCREPCANCY APPEAR IN THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONDITIONS, NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTIONHOW TO PROCEED.
4. SHOULD A CONFLICT OCCUR IN OR BETWEEN DRAWINGS AND SPECIFICATIONS, THE SPECIFICATIONS SHALL TAKE PRECEDENCE, UNLESS A WRITTEN DECISION FROM ARCHITECT HBEEN OBTAINED WHICH DESCRIBES A CLARIFICATION OR ALTERNATE METHOD AND/OR MATERIALS.
5. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS ON THE SITE TO AREAS PERMITTED BY TIOWNER.
6. THE JOB SITE SHALL BE MAINTAINED IN A CLEAN, ORDERLY CONDITION FREE OF DEBRIS AND LITTER, AND SHALL NOT BE UNREASONABLY ENCUMBERED WITH ANY MATERIALS OR EQUIPMENT. EACH SUBCONTRACTOR IMMEDIATELY UPON COMPLETION OF EACH PHASE OF HIS WORK SHALL REMOVE ALL TRASH AND DEBRIS AS A RESULT OF THEIR OPERATION.
7. ALL MATERIAL STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED TO PREVENT DAMAGE AND DETERIORATION. FAILURE TO PROTECT MATERIALS MAY BE FOR REJECTION OF WORK.
8. THE CONTRACTOR SHALL DO ALL CUTTING, FITTING, OR PATCHING OF HIS WORK THAT MAY BE REQUIRED TO MAKE ITS SEVERAL PARTS FIT TOGETHER PROPERLY AND SHALL NOT ENDANGER ANY OTHER WORK BY CUTTING OR OTHERWISE ALTERING THE TOTAL WORK OR AN PART OF IT. ALL PATCHING, REPAIRING, AND REPLACING OF MATERIALS AND SURFACES, CUT OR DAMAGED IN EXECUTION OF WORK, SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL, UPON COMPLETION, MATCH SURROUNDING SIMILIAR SURFACES.
9. NO PORTION OF THE WORK REQUIRING A SHOIP DRAWING OR SMAPLE SUBMISSION SHALL BE C OMMENCED UNTIL THE SUBMISSION HAS BEEN REVIEWED BY THE ARCHITECT. ALL SUCH PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH CORRECTED SHOP DRAWINGS AND SAMPLES.
10. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE.
11. NOTICE TO THE CONTRACTOR / BUILDER / INSTALLER / SUB-CONTRACTOR. BY USING THESE PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE AND ARE AWARE OF THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF THE CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STURCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.
12. NO HAZARDOUS MATERIALS WILL BE STORED AND/OR USED WITHIN THE BUILDING WHICH EXCEED THE QUANTITIES LISTED IN IBC TABLES 307.1(1) AND 307.1(2).
13. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODES OF REGULATIONS (CCR).
14. TITLE 24 PARTS 1-5 SHALL BE KEPT ON SITE DURING CONSTRUCTION.
15. PROVIDE BUILDING ADDRESS NUMBERS VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY PER FHPS POLICY P-00-6(UFC901.4)

FIELD CONSTRUCTION NOTES

- 1. ROUGH PLUMBING INSPECTIONS TO BE CALLED OUT FOR PRIOR TO POURING CONCRETE. CALL FOR INSPECTION TO BE MADE 3.5 WORKING DAYS PRIOR TO REQUESTED DATE.
2. PRELIMINARY CONSTRUCTION INPSECTION TO BE CALLED FOR WHEN CONSTRUCTION IS APPROXIMATELY 75% TO 80% COMPLETED, WITH PLUMBING, ROUGH VENTILATION, AND ROUGH EQUIPMENT INSTALLED. CALL FOR INSPECTION TO BE MADE 3.5 WORKING DAYS IN ADVANCE. PRELIMINARY INSPECTION TO BE SCHEDULED FOR NO LESS THAN 2 WEEKS PRIOR TO THE PROPOSED HAPPENINGS OF THE FOOD ESTABLISHMENT.
3. CALL FOR FINAL INSPECTION UPON COMPLETION OF ALL CONSTRUCTION INCLUDING ALL FINISH WORK. FINAL INSPECTION TO BE PASSED BEFORE ISSUANCE OF A HEALTH PERMIT. CALL FOR INSPECTION TO BE MADE NO LESS THAN 3.5 WORKING DAYS PRIOR TO THE PROPOSED OPENING OF THE FOOD ESTABLISHMENT. FINAL CONSTRUCTION MUST BE APPROVED PRIOR TO OPENING FOR BUSINESS OR USE OR REMODELED AREAS.

FIRE DEPARTMENT NOTES:

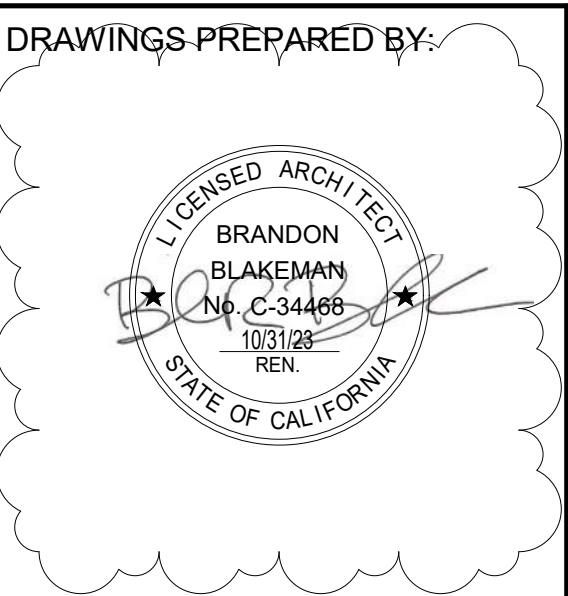
NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL CONTRAST IN COLOR TO BACKGROUND. NUMBERS SHALL BE A MINIMUM OF 4" HIGH WITH MINIMUM STROKE WIDTH OF 1/2 INCH. CFC SECTION 505.1.
WHERE ACCESS TO OR WITHIN A STRUCTURE OR AN AREA IS RESTRICTED BECAUSE OF SECURED OPENINGS OR WHERE IMMEDIATE ACCESS IS NECESSARY FOR LIFE-SAVING OR FIRE-FIGHTING PURPOSES, THE FIRE CODE OFFICIAL IS AUTHORIZED TO REQUIRE A KEY BOX TO BE INSTALLED IN AN APPROVED LOCATION. THE KEY BOX SHALL BE OF AN APPROVED TYPE AND SHALL CONTAIN KEY(S) TO GAIN NECESSARY ACCESS AS REQUIRED BY THE FIRE CODE OFFICIAL. CFC SECTION 503.6
WHEN SPRINKLERS ARE REQUIRED SUBMIT FIRE SPRINKLER TENANT IMPROVEMENT PLANS TO FIRE DEPARTMENT FOR APPROVAL PRIOR TO INSTALLATION. CFC SECTION 901.4
PORTABLE FIRE EXTINGUISHER(S) SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CFC 906, TABLE 906.3(1) AND CHAPTER 3, TITLE 19 CCR
THIS PROJECT WILL BE IN COMPLIANCE WITH THE CURRENT EDITIONS OF NFPA, CFC, TITLE 19 AND LOCAL CITY OF NATIONAL CITY MUNICIPAL CODES.
REQUESTS FOR INSPECTIONS SHALL BE MADE 48 HOURS IN ADVANCE. INSPECTIONS SHALL BE MADE ONCE WORK IS COMPLETE, UTILIZING APPROVED AND STAMED PLANS. CONTRACTOR SHALL BE REQUIRED TO HAVE THE APPROVED PLANS ON SITE PER CODE.



DRAWN BY: Author
PROJECT # XX-XXX

NUMBER	DESCRIPTION	DATE
4	NC REV 3	07/24/2023

SABOR PIRI PIRI TENANT IMPROVEMENT
800 B AVENUE SUITE 804
NATIONAL CITY CA 91950



TITLE: **NOTES**
SHEET: **G0.4**

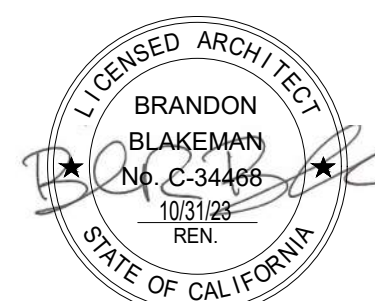
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PROJECT # XX-XXX

NUMBER	DESCRIPTION	DATE
4	NC REV 3	07/24/2023

SABOR PIRI PIRI TENANT IMPROVEMENT
800 B AVENUE SUITE 804
NATIONAL CITY CA 91950

PROJECT:

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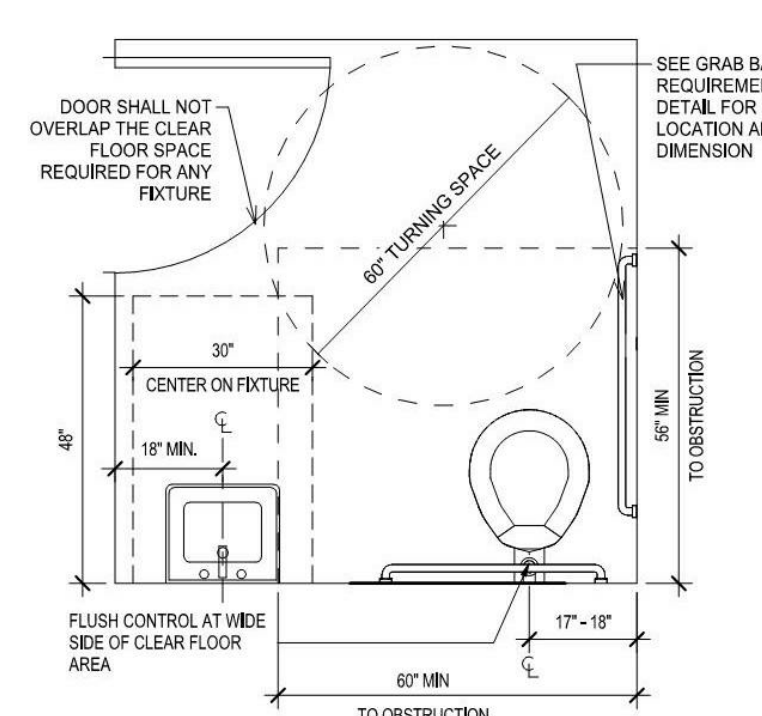
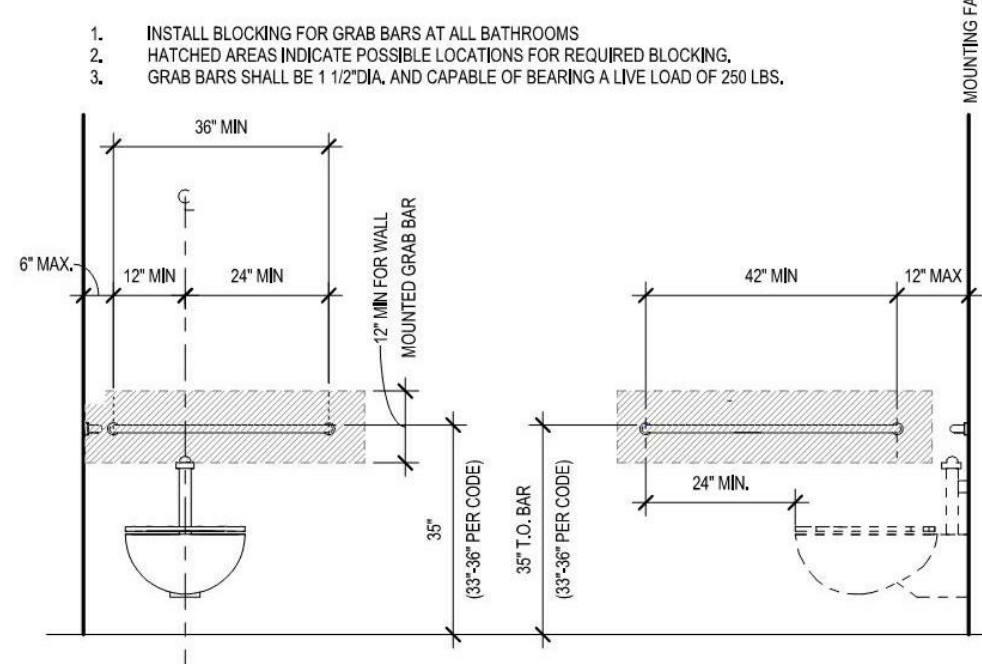
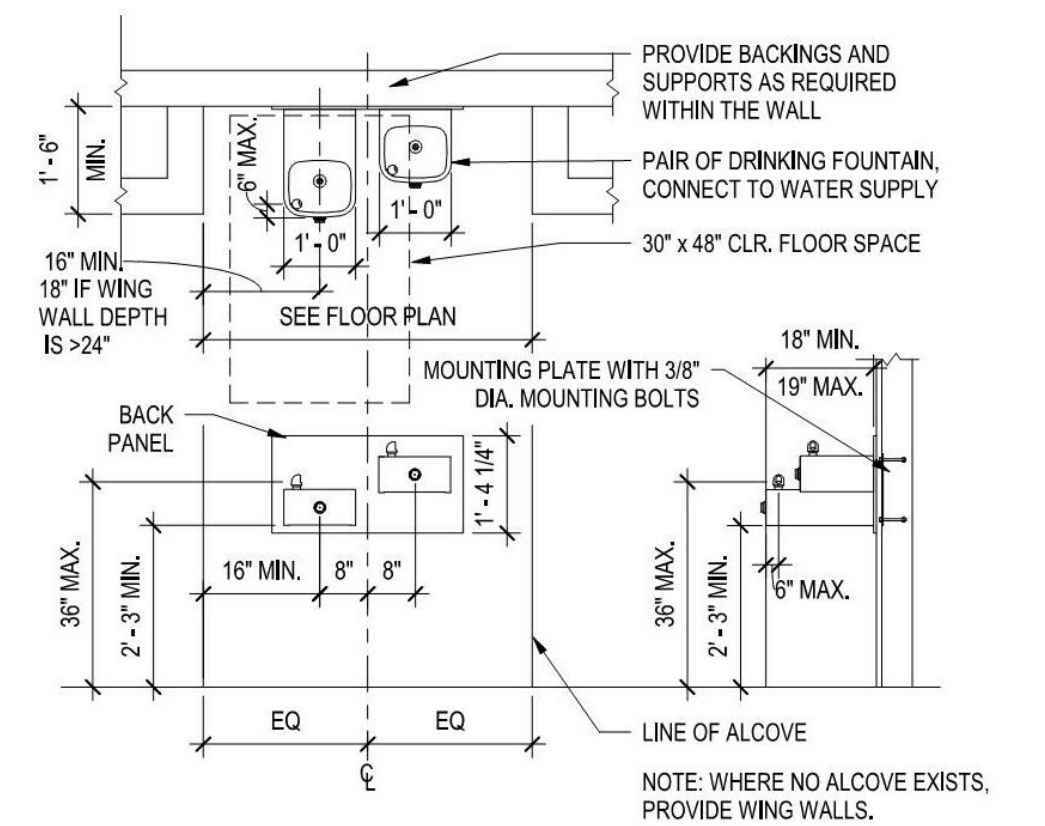


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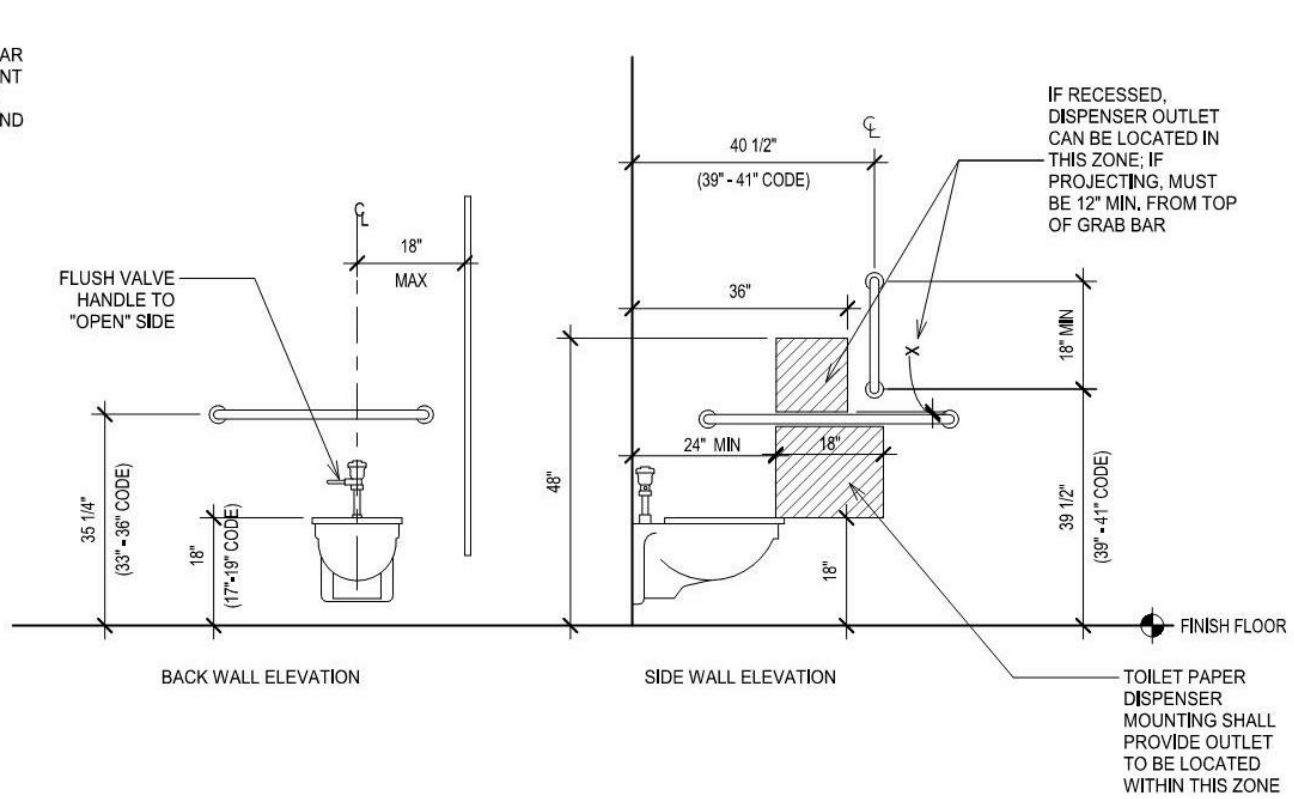
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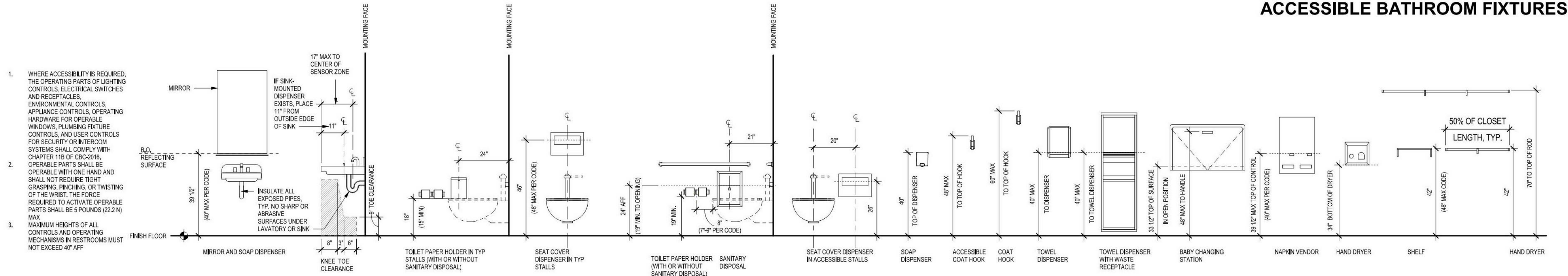
ACCESSIBLE DRINKING FOUNTAIN



ACCESSIBLE PUBLIC BATHROOMS



ACCESSIBLE BATHROOM FIXTURES



- WHERE ACCESSIBILITY IS REQUIRED, THE OPERATING PARTS OF LIGHTING CONTROLS, ELECTRICAL SWITCHES AND RECEPTACLES, ENVIRONMENTAL CONTROLS, AIRPANCE CONTROLS, OPERATING HARDWARE FOR OPERABLE WINDOWS, PLUMBING FIXTURE CONTROLS AND USER CONTROLS FOR SECURITY OR INTERCOM SYSTEMS SHALL COMPLY WITH CHAPTER 11B OF CSC-2016. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, FINGERING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22.2N) MAX. MAXIMUM HEIGHTS OF ALL CONTROLS AND OPERATING MECHANISMS IN RESTROOMS MUST NOT EXCEED 40" AFF.

EXTERIOR WALL ASSEMBLIES

TAG & SECTION	DESCRIPTION LAYERS AND NOTES	AVAILABLE FIRE RATING	ACOUSTIC RATINGS	THERMAL RATING
W60	WOOD RAINDRIPSCREEN - 2X6 WOOD FRAMING (0-HR) <p>WOOD SIDING FOR RAIN SCREEN 7/8" HAT CHANNEL METAL FRAMING - PT BLACK WRB - BLACK UV RESISTANT 5/8" TYPE 'X' GLASS MAT FACED SHEATHING 2X6 WOOD FRAMING W/ R-19 BATT INSULATION 5/8" TYPE 'X' GYP BOARD</p> <p>NOTES: 1. STUD SPACING PER STRUCT. 2. ADDITIONAL PRESSURE TREATED 2X2 PAINTED BLACK BETWEEN HAT CHANNEL AND WRB AT LEVEL TO WHERE SINGLE PLY ROOFING IS RUNNING UP FACE OF WALL.</p>	NOT RATED TYPE VB	STC: 50	U-0.069
W61	WOOD RAINDRIPSCREEN - 2X6 WOOD FRAMING (1-HR) <p>WOOD SIDING FOR RAIN SCREEN 7/8" HAT CHANNEL METAL FRAMING - PT BLACK WRB - BLACK UV RESISTANT 5/8" TYPE 'X' GLASS MAT FACED SHEATHING 2X6 WOOD FRAMING W/ R-19 BATT INSULATION 5/8" TYPE 'X' GYP BOARD</p> <p>NOTES: 1. STUD SPACING PER STRUCT. 2. ADDITIONAL PRESSURE TREATED 2X2 PAINTED BLACK BETWEEN HAT CHANNEL AND WRB AT LEVEL TO WHERE SINGLE PLY ROOFING IS RUNNING UP FACE OF WALL.</p>	1-HR VB	STC: 50	U-0.069
W62	WOOD RAINDRIPSCREEN - 2X6 WOOD FRAMING (2-HR) <p>WOOD SIDING FOR RAIN SCREEN 7/8" HAT CHANNEL METAL FRAMING - PT BLACK WRB - BLACK UV RESISTANT 5/8" TYPE 'X' GLASS MAT FACED SHEATHING 2X6 WOOD FRAMING W/ R-21 MINERAL WOOL INSUL. (2 LAYERS) (5/8") TYPE 'X' GYPSUM BOARD</p> <p>NOTES: 1. STUD SPACING AND SHEARWALLS PER STRUCT. 2. ADDITIONAL PRESSURE TREATED 2X2 PAINTED BLACK BETWEEN HAT CHANNEL AND WRB AT LEVEL TO WHERE SINGLE PLY ROOFING IS RUNNING UP FACE OF WALL.</p>	2-HR VB	STC: 50	U-0.069
W71	EXT. GYP. - 2X6 WOOD FRAMING (1-HR) <p>(5/8") TYPE 'X' EXTERIOR GYPSUM BOARD SHEATHING PER STRUCT. 2X6 WD FR PER STRUCT. W/ HIGH DENS. R-21 BATT INSUL. 1/2" RESILIENT CHANNEL METAL FRAMING 5/8" TYPE 'X' GYP BOARD</p> <p>NOTES: 1. STUD SPACING PER STRUCT. 2. SHEATHING REQ. BOTH SIDES TO MAINTAIN ACOUSTIC RATING</p>	1-HR TYPE IIIA	STC: 50	U-0.069
W72	EXT. GYP. - 2X6 WOOD FRAMING (2-HR) <p>(2 LAYERS) (5/8") TYPE 'X' EXTERIOR GYPSUM BOARD WRB SHEATHING PER STRUCT. 2X6 WD FR PER STRUCT. W/ R-21 MINERAL WOOL INSUL. (2 LAYERS) (5/8") TYPE 'X' GYPSUM BOARD</p> <p>NOTES: 1. STUD SPACING PER STRUCT. 2. W72 INDICATES USING 2X6 AND 2X4 STUDS PER DETAILS</p>	2-HR TYPE IIIA	STC: 50	U-0.069

TAG & SECTION	DESCRIPTION LAYERS AND NOTES	AVAILABLE FIRE RATING	ACOUSTIC RATINGS	THERMAL RATING
W40	STUCCO - 2X6 WOOD FRAMING - SCC/GWB (0-HR) <p>STUCCO ASSEMBLY DRAINAGE LAYER & WRB SYSTEM SHEATHING PER STRUCT. 2X6 WD FR PER STRUCT. W/ HIGH DENS. R-21 BATT INSUL. 5/8" TYPE 'X' GYP BOARD</p> <p>NOTES: 1. USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS. 2. STUD SPACING PER STRUCT. 3. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES. 4. STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.2</p>	NOT RATED VB	STC: N/A	U-0.069
W40.6	STUCCO - 2X6 WOOD FRAMING - SCC/WID (0-HR) <p>STUCCO ASSEMBLY DRAINAGE LAYER & WRB SYSTEM SHEATHING PER STRUCT. 2X6 WD FR PER STRUCT. W/ HIGH DENS. R-21 BATT INSUL. 7/8" HAT CHANNEL METAL FRAMING - PT BLACK WOOD SIDING FOR RAIN SCREEN</p> <p>NOTES: 1. USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS. 2. STUD SPACING PER STRUCT. 3. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES. 4. STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.2</p>	NOT RATED VB	STC: N/A	U-0.069
W41	STUCCO - 2X6 WOOD FRAMING - SCC/GWB (1-HR) <p>STUCCO ASSEMBLY DRAINAGE LAYER & WRB SYSTEM 5/8" TYPE 'X' GLASS MAT FACED SHEATHING SHEATHING PER STRUCT. 2X6 WD FR PER STRUCT. W/ HIGH DENS. R-21 BATT INSUL. 5/8" TYPE 'X' GYP BOARD</p> <p>NOTES: 1. USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS. 2. STUD SPACING PER STRUCT. 3. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES. 4. STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.2</p>	1-HR TYPE IIIA VB	STC: 50	U-0.069
W41.4U	STUCCO - 2X4 WOOD FRAMING - SCC/SCC UNINSULATED <p>STUCCO ASSEMBLY DRAINAGE LAYER & WRB SYSTEM 5/8" TYPE 'X' GLASS MAT FACED SHEATHING 2X4 WOOD STUD 5/8" TYPE 'X' GLASS MAT FACED SHEATHING DRAINAGE LAYER & WRB SYSTEM STUCCO ASSEMBLY</p> <p>NOTES: 1. USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS. 2. STUD SPACING PER STRUCT. 3. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES. 4. STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.2</p>	1-HR TYPE IIIA VB	STC: 50	U-0.069
W42	STUCCO - 2X6 WOOD FRAMING - SCC/GWB (2-HR) <p>STUCCO ASSEMBLY DRAINAGE LAYER & WRB SYSTEM 5/8" TYPE 'X' GLASS MAT FACED SHEATHING 2X6 WD FR PER STRUCT. W/ R-21 MINERAL WOOL INSUL. (2 LAYERS) (5/8") TYPE 'X' GYPSUM BOARD</p> <p>W42 - PROVIDE WRB SYSTEM AND EXTERIOR FINISH AT BOTH SIDES</p> <p>NOTES: 1. USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS. 2. STUD SPACING PER STRUCT. 3. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES. 4. STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.2</p>	2-HR TYPE IIIA VB	STC: 50	U-0.069
W42+	STUCCO - 2X6 WOOD FRAMING - SCC/GWB - GWB AMMR (1+2-HR) <p>STUCCO ASSEMBLY DRAINAGE LAYER & WRB SYSTEM (2 LAYERS) (5/8") TYPE 'X' GLASS MAT FACED SHEATHING SHEATHING PER STRUCT. 2X6 WD FR PER STRUCT. W/ R-21 MINERAL WOOL INSUL. (2 LAYERS) (5/8") TYPE 'X' GYPSUM BOARD</p> <p>NOTES: 1. USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS. 2. STUD SPACING PER STRUCT. 3. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES. 4. STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.2 5. WHEN AGAINST SHAFT REMOVE (2 LAYERS) 15.0 MM TYPE 'X' GYPSUM BOARD</p>	2-HR TYPE IIIA	STC: 50	U-0.069
W40-M	STUCCO - 6" METAL FRAMING <p>STUCCO ASSEMBLY CEMENT BOARD DRAINABLE RIGID INSULATION (R-10 MIN) WRB 5/8" GLASS MAT GYPSUM SHEATHING. 6" METAL FRAMING W/ R-21 FIBERGLASS BATT 5/8" TYPE 'X' GYP BOARD</p> <p>NOTES: 1. USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS. 2. STUD SPACING PER STRUCT. 3. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES. 4. STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.2</p>	NOT RATED TYPE IIIA	STC: 50	U-0.069
W40-MU	STUCCO - 6" METAL FRAMING UNINSULATED <p>STUCCO ASSEMBLY DRAINAGE LAYER & WRB SYSTEM 5/8" TYPE 'X' GYP BOARD 6" METAL FRAMING (2 LAYERS) (5/8") TYPE 'X' GYPSUM BOARD</p> <p>NOTES: 1. USE MOISTURE RESISTANT GYPSUM. 2. STUD SPACING PER STRUCT. 3. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES. 4. STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.2</p>	NOT RATED TYPE IIIA	STC: 50	U-0.069

TAG & SECTION	DESCRIPTION LAYERS AND NOTES	AVAILABLE FIRE RATING	ACOUSTIC RATINGS	THERMAL RATING
W10-6	CONCRETE WALL 6" - STANDARD <p>STRUCT. CONCRETE</p> <p>NOTES: 1. CONTROL JOINTS FORM THE HOLES PER DRAWINGS WHEN INDICATED. 2. WP AND DRAINAGE MAT COLLECTION AT RETAINING CONDITIONS 3. SEALER/COATINGS PER SPECIFICATIONS 4. THICKNESS PER STRUCTURAL</p>	3-HR TYPE IA	TEST SOURCES	U-0.74
W10-6A	CONCRETE WALL 6" - ARCHITECTURAL <p>SAME AS ABOVE WITH EXPOSED FACES TO BE ARCH. FINISH QUALITY PER SPECIFICATIONS</p> <p>NOTES: 1. CONTROL JOINTS FORM THE HOLES PER DRAWINGS WHEN INDICATED. 2. WP AND DRAINAGE MAT COLLECTION AT RETAINING CONDITIONS 3. THICKNESS PER STRUCTURAL</p>	3-HR TYPE IA	TEST SOURCES	U-0.74
W10-8	CONCRETE WALL 8" - STANDARD <p>STRUCT. CONCRETE</p> <p>NOTES: 1. CONTROL JOINTS FORM THE HOLES PER DRAWINGS WHEN INDICATED. 2. WP AND DRAINAGE MAT COLLECTION AT RETAINING CONDITIONS 3. SEALER/COATINGS PER SPECIFICATIONS 4. THICKNESS PER STRUCTURAL</p>	3-HR TYPE IA	TEST SOURCES	U-0.74
W10-8A	CONCRETE WALL 8" - ARCHITECTURAL <p>SAME AS ABOVE WITH EXPOSED FACES TO BE ARCH. FINISH QUALITY PER SPECIFICATIONS</p> <p>NOTES: 1. CONTROL JOINTS FORM THE HOLES PER DRAWINGS WHEN INDICATED. 2. WP AND DRAINAGE MAT COLLECTION AT RETAINING CONDITIONS 3. SEALER/COATINGS PER SPECIFICATIONS 4. THICKNESS PER STRUCTURAL</p>	3-HR TYPE IA	TEST SOURCES	U-0.74
W10-12	CONCRETE WALL 12" - STANDARD <p>STRUCT. CONCRETE</p> <p>NOTES: 1. CONTROL JOINTS FORM THE HOLES PER DRAWINGS WHEN INDICATED. 2. WP AND DRAINAGE MAT COLLECTION AT RETAINING CONDITIONS 3. SEALER/COATINGS PER SPECIFICATIONS 4. THICKNESS PER STRUCTURAL</p>	3-HR TYPE IA	TEST SOURCES	U-0.74
W10-12A	CONCRETE WALL 12" - ARCHITECTURAL <p>SAME AS ABOVE WITH EXPOSED FACES TO BE ARCH. FINISH QUALITY PER SPECIFICATIONS</p> <p>NOTES: 1. CONTROL JOINTS FORM THE HOLES PER DRAWINGS WHEN INDICATED. 2. WP AND DRAINAGE MAT COLLECTION AT RETAINING CONDITIONS 3. SEALER/COATINGS PER SPECIFICATIONS 4. THICKNESS PER STRUCTURAL</p>	3-HR TYPE IA	TEST SOURCES	U-0.74
W10-16	CONCRETE WALL 16" - STANDARD <p>STRUCT. CONCRETE</p> <p>NOTES: 1. CONTROL JOINTS FORM THE HOLES PER DRAWINGS WHEN INDICATED. 2. WP AND DRAINAGE MAT COLLECTION AT RETAINING CONDITIONS 3. SEALER/COATINGS PER SPECIFICATIONS 4. THICKNESS PER STRUCTURAL</p>	3-HR TYPE IA	TEST SOURCES	U-0.74
W20-6	CMU 6" NOMINAL WALL - STACKED BOND <p>CMU 6" STACKED BOND</p> <p>NOTES: 1. SEALED/COATINGS PER SPECIFICATIONS 2. FULLY GROUDED PER SPECIFICATIONS AND STRUCTURAL 3. ALL JOINTS VISIBLE TO PUBLIC TO BE RAKED JOINTS</p>	2-HR TYPE IA	TEST SOURCES	NOT USED AS A PART OF ENVELOPE
W20-8	CMU 8" NOMINAL WALL - STACKED BOND <p>CMU 8" STACKED BOND</p> <p>NOTES: 1. SEALED/COATINGS PER SPECIFICATIONS 2. FULLY GROUDED PER SPECIFICATIONS AND STRUCTURAL 3. ALL JOINTS VISIBLE TO PUBLIC TO BE RAKED JOINTS</p>	2-HR TYPE IA	TEST SOURCES	U-0.69
W20-8C	CMU 8" NOMINAL WALL - WITH TILE <p>CMU 8" STACKED BOND TILE BY OTHERS OF FLUID APPLIED WEATHER BARRIER</p> <p>NOTES: 1. SEALED/COATINGS PER SPECIFICATIONS 2. FULLY GROUDED PER SPECIFICATIONS AND STRUCTURAL 3. ALL JOINTS VISIBLE TO PUBLIC TO BE RAKED JOINTS</p>	2-HR TYPE IA	TEST SOURCES	U-0.69

ASSEMBLIES GENERAL NOTES

- SEE BUILDING OCCUPANCY/EGRESS PLANS AND FLOOR PLANS FOR WALL FIRE RATING LOCATIONS.
- USE MOISTURE RESISTANT GYPSUM ON ALL WALLS AND CEILINGS WHERE REQUIRED PER SPECIFICATIONS, (AREAS REQUIRED BUT NOT LIMITED TO: RESTROOMS, CUSTODIAL CLOSETS, BEHIND W/ITCHNETTES).
- ALL EXTERIOR FINISHES TO MEET THICKNESSES OF TABLE 1405.2, ALUMINUM PREFINISHED FLASHING SHOWN IN DETAILS TO MEET THICKNESS OF ALUMINUM SIDING IN TABLE 1405.2 TO ENSURE COMPLIANCE WITH 1403.5 EXCEPTION 1.
- ZIP CODE 91950 IS A CLIMATE ZONE 7, THEREFORE, CLASS I OR CLASS II VAPOR RETARDERS TO BE PROVIDED AT INTERIOR FACE SIDE OF FRAME WALLS PER CBC 1405.3.1. PAINT WITH A PERM RATING GREATER THAN 0.1, AND LESS THAN OR EQUAL TO 1.0, SEE 099000 PAINTING AND COATING SPECIFICATION.
- WRB AND DRAINAGE PLANE TO MEET NFPA 285 PER CBC 1403.5
- PROVIDE FIRELOOKING PER CBC 718.2.
- WOOD ASSEMBLIES IN THE TYPE IIIA BUILDING, TO HAVE A MAXIMUM CONCEALED FREE AIR AND/OR INSULATION VOLUME OF 1600". USE FIRELOCKING PER CBC 718.2 AND DRAFTSTOPPING PER CBC 718.3 AND CBC 718.4 TO SUBDIVIDE VOLUMES GREATER THAN 1600".
- IN TRUSS FLOOR AND ROOF ASSEMBLY AREAS FIRELOCKING AND DRAFTSTOPPING TO BE CREATED WITH SOLID MATERIALS, NOT MINERAL WOOL OR CELLULOSE DUE TO INSUFFICIENT MEANS TO BE SECURELY RETAINED IN PLACE (CBC 718.2.1.7).
- WHERE WOOD TRUSSES ARE NOT USED, FILLING JOIST/BAY CAVITIES WITH MINERAL WOOL PER CBC 718.2.1 AND CBC 718.3.1 IS ACCEPTED.
- 'SHEATHING PER STRUCT' IS SHOWN ONLY ON ONE SIDE OF THE ASSEMBLIES. SEE STRUCT FOR SHEAR WALL SPECIFICATIONS AND LOCATIONS WITH BOTH SIDES OF ASSEMBLY SHEATHED, WHERE SHEATHING IS SHOWN FOR PARTIAL WALLS, PROVIDE AN EVEN FINISHED SURFACE BY ADDING SHEATHING TO ENTIRE SURFACE OF WALL AND ALONGING WALLS.
- SOME INTERIOR PARTITIONS INCLUDE PLYWOOD SHEAR LAYERS, REFER TO STRUCTURAL FOR LOCATIONS.
- LOW SLOPE SINGLE PLY TO HAVE MIN SRI VALUE OF 75.
- ALL SINGLE PLY ROOFING TO HAVE A MIN. 1/4" PER FOOT SLOPE TO DRAIN IN ALL CONDITIONS.

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 INFILL DEVELOPMENT

BASECAMP
 CONSTRUCTION CO.

DRAWN BY: JA
 PROJECT # XX-XXX

NUMBER	DESCRIPTION	DATE
4	NC REV 3	07/24/2023

National City - 8th & B
 E 8TH STREET & B AVE. | NATIONAL CITY, CA, 91950

BID SET
 20 SEPT 2019

SABOR PIRI PIRI TENANT IMPROVEMENT

800 B AVENUE SUITE 804
 NATIONAL CITY CA 91950

PROJECT:

Issue Date: 20 SEPT 2019
 Drawn: Author
 Checked: Checker
 MH Project No.: A18.0019.00

DRAWINGS PREPARED BY:

LICENSED ARCHITECT
 BRANDON
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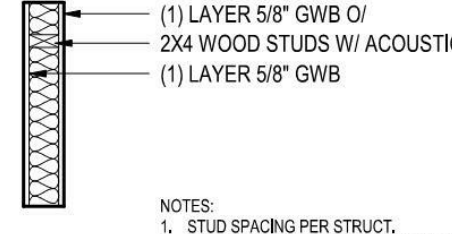
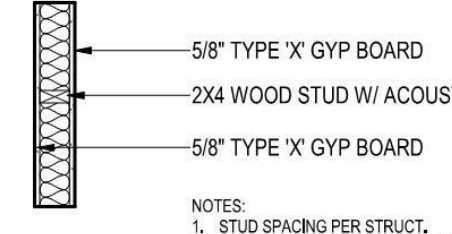
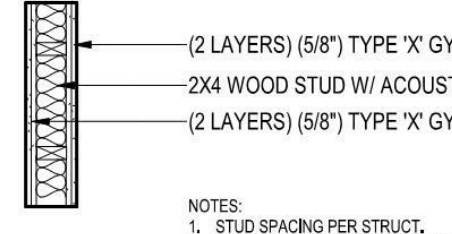
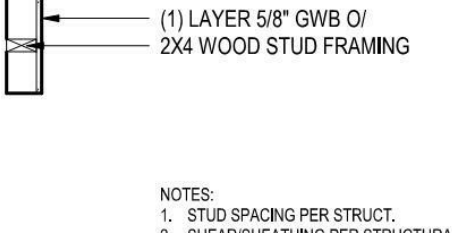
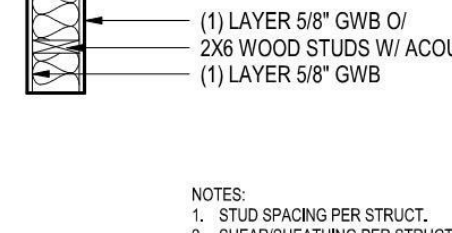
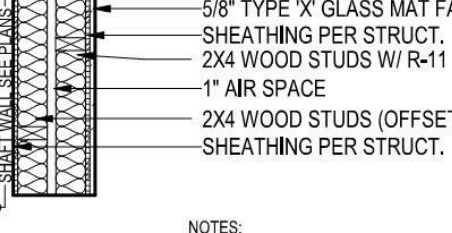
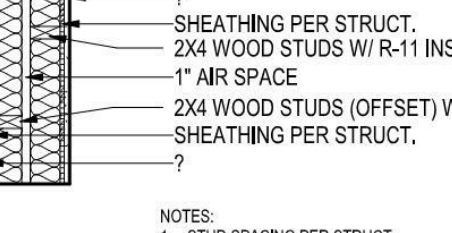
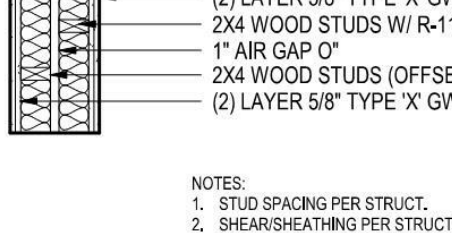
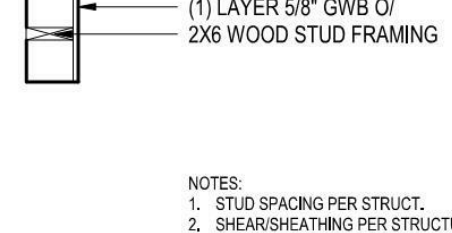
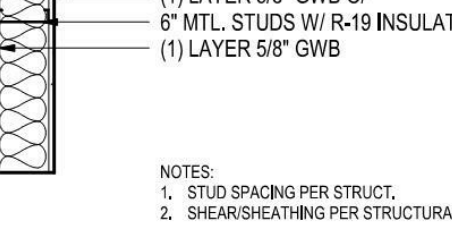
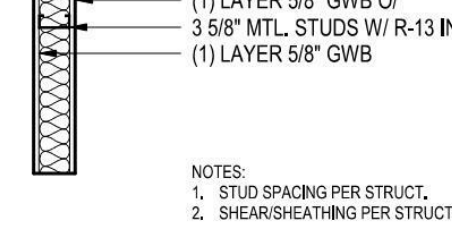
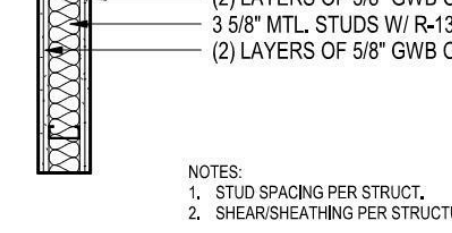
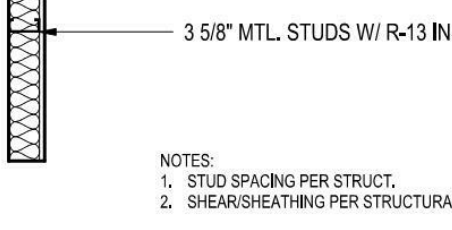
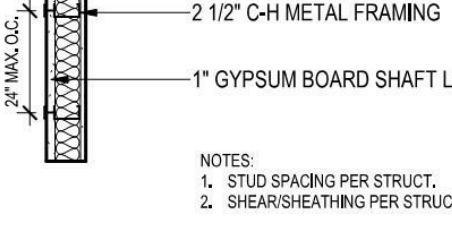
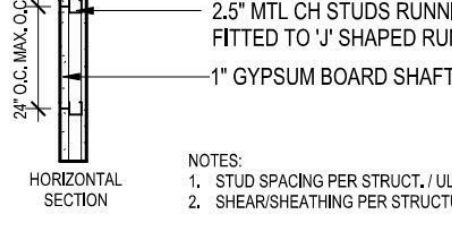

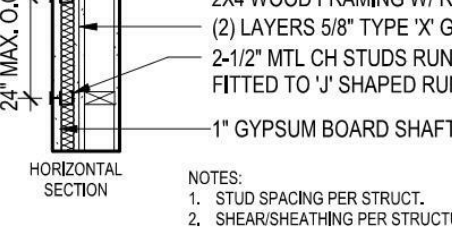

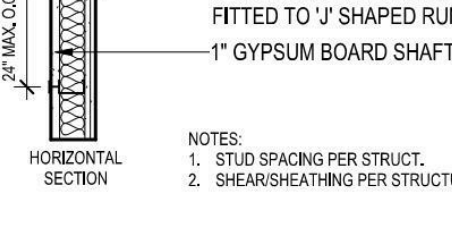

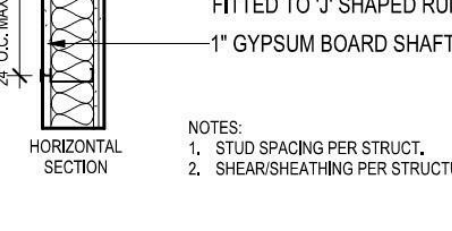
EXT. WALL ASSEMBLIES A-012

TITLE:
EXTERIOR WALL ASSEMBLIES

SHEET:
A0.4

REFERENCED EXTERIOR WALL ASSEMBLIES FROM ORIGINAL BUILDING PERMIT SET APPROVED UNDER PERMIT# 2019-8703

INTERIOR PARTITION ASSEMBLIES

TAG & SECTION	DESCRIPTION LAYERS AND NOTES	AVAILABLE FIRE RATING	ACOUSTIC RATINGS	THERMAL RATING	TAG & SECTION	DESCRIPTION LAYERS AND NOTES	AVAILABLE FIRE RATING	ACOUSTIC RATINGS	THERMAL RATING	TAG & SECTION	DESCRIPTION LAYERS AND NOTES	AVAILABLE FIRE RATING	ACOUSTIC RATINGS	THERMAL RATING
A	2X4 WOOD STUD WALL  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	NOT RATED	STC 36		A1	2X4 WOOD STUD PARTITION WALL - NOT USED  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	1-HR	STC 57		A2	2X4 WOOD STUD PARTITION WALL - NOT USED  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	2-HR	STC 57	
A3	2X4 WOOD STUD FURRING WALL  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	NOT RATED	STC 28		B	2X6 WOOD STUD WALL  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	NOT RATED	STC 36		C0	2X4 WOOD STUD PARTITION WALL  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	NOT RATED TYPE IIIA	STC 63	
C1	2X4 WOOD STUD PARTITION WALL  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	1-HR	STC 63		C2	2X4 WOOD STUD PARTITION WALL  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	2-HR	STC 63		D	2X6 WOOD STUD FURRING WALL  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	NOT RATED	STC 28	
E	6" MTL. STUD WALL  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	NOT RATED			F	3.5/8" MTL. STUD WALL  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	NOT RATED	STC 45		G	3.5/8" MTL. STUD WALL  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	1-HR	STC 52	U-0.407
H	3.5/8" MTL. STUD FURRING WALL  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	NOT RATED			I1-4	4" MTL CH STUD SHAFT WALL  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	1-HR			I1-2.5	2.1/2" MTL CH STUD SHAFT WALL  NOTES: 1. STUD SPACING PER STRUCT, I/1 ASSEMBLY 2. SHEARSHEATHING PER STRUCTURAL.	2-HR		U-0.415
					I2-A	4" MTL CH STUD SHAFT WALL  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	2-HR			I2-A	4" MTL CH STUD SHAFT WALL  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	2-HR		U-0.415
					I2-4	4" MTL CH STUD SHAFT WALL  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	2-HR			I2-4	4" MTL CH STUD SHAFT WALL  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	2-HR		U-0.415
					I2-6	6" MTL CH STUD SHAFT WALL  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	2-HR			I2-6	6" MTL CH STUD SHAFT WALL  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEARSHEATHING PER STRUCTURAL.	2-HR		U-0.415

ASSEMBLIES GENERAL NOTES

- SEE BUILDING OCCUPANCY/EGRESS PLANS AND FLOOR PLANS FOR WALL FIRE RATING LOCATIONS.
- USE MOISTURE RESISTANT GYPSUM ON ALL WALLS AND CEILINGS WHERE REQUIRED PER SPECIFICATIONS. (AREAS REQUIRED BUT NOT LIMITED TO: RESTROOMS, CUSTODIAL CLOSETS, BEHIND KITCHENETTES)
- ALL EXTERIOR FINISHES TO MEET THICKNESSES OF TABLE 1405.2, ALUMINUM PREFINISHED FLASHING SHOWN IN DETAILS TO MEET THICKNESS OF ALUMINUM SIDING IN TABLE 1405.2 TO ENSURE COMPLIANCE WITH 1403.5 EXCEPTION 1.
- 2" CODE 91550 IS A CLIMATE ZONE 7, THEREFORE, CLASS I OR CLASS II VAPOR RETARDERS TO BE PROVIDED AT INTERIOR FACE SIDE OF FRAME WALLS PER CBC 1405.3.1. PAINT WITH A PERM RATING GREATER THAN 0.1 AND LESS THAN OR EQUAL TO 1.0. SEE 09000 PAINTING AND COATING SPECIFICATION.
- WRB AND DRAINAGE PLANE TO MEET NFPA 285 PER CBC 1403.5
- PROVIDE FIREBLOCKING PER CBC 718.2
- WOOD ASSEMBLIES IN THE TYPE IIIA BUILDING, TO HAVE A MAXIMUM CONCEALED FREE AIR AND/OR INSULATION VOLUME OF 1600". USE FIREBLOCKING PER CBC 718.2 AND DRAFTSTOPPING PER CBC 718.3 AND CBC 718.4 TO SUBDIVIDE VOLUMES GREATER THAN 1600".
- IN TRUSS FLOOR AND ROOF ASSEMBLY AREAS FIREBLOCKING AND DRAFTSTOPPING TO BE CREATED WITH SOLID MATERIALS, NOT MINERAL WOOL OR CELLULOSE DUE TO INSUFFICIENT MEANS TO BE SECURELY RETAINED IN PLACE (CBC 718.2.1.7).
- WHERE WOOD TRUSSES ARE NOT USED, FILLING JOIST/BAY CAVITIES WITH MINERAL WOOL PER CBC 718.2.1 AND CBC 718.3.1 IS ACCEPTED.
- 'SHEATHING PER STRUCT' IS SHOWN ONLY ON ONE SIDE OF THE ASSEMBLIES. SEE STRUCT FOR SHEAR WALL SPECIFICATIONS AND LOCATIONS WITH BOTH SIDES OF ASSEMBLY SHEATHED, WHERE SHEATHING IS SHOWN FOR PARTIAL WALLS, PROVIDE AN EVEN FINISHED SURFACE BY ADDING SHEATHING TO ENTIRE SURFACE OF WALL AND ALIGNING WALLS.
- SOME INTERIOR PARTITIONS INCLUDE PLYWOOD SHEAR LAYERS. REFER TO STRUCTURAL FOR LOCATIONS
- LOW SLOPE SINGLE PLY TO HAVE MIN SRI VALUE OF 75.
- ALL SINGLE PLY ROOFING TO HAVE A MIN. 1/4" PER FOOT SLOPE TO DRAIN IN ALL CONDITIONS.



DRAWN BY: JA
PROJECT # XX-XXX

NUMBER	DESCRIPTION	DATE
4	NC REV 3	07/24/2023

National City - 8th & B
E 8TH STREET & B AVE. | NATIONAL CITY, CA, 91950

BID SET
20 SEPT 2019

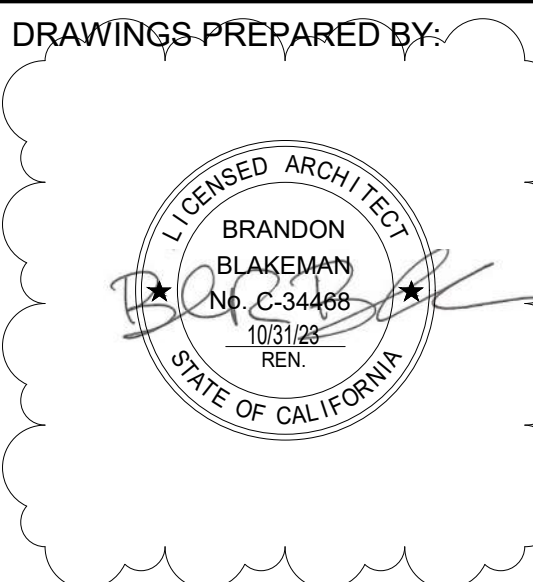
SABOR PIRI PIRI TENANT IMPROVEMENT

800 B AVENUE SUITE 804
NATIONAL CITY CA 91950

No.	Description	Date

Issue Date: 20 SEPT 2019
Drawn: Author
Checked: Checker
MH Project No.: A18.0019.00

INT. WALL ASSEMBLIES A-013



TITLE:
INTERIOR WALL ASSEMBLIES

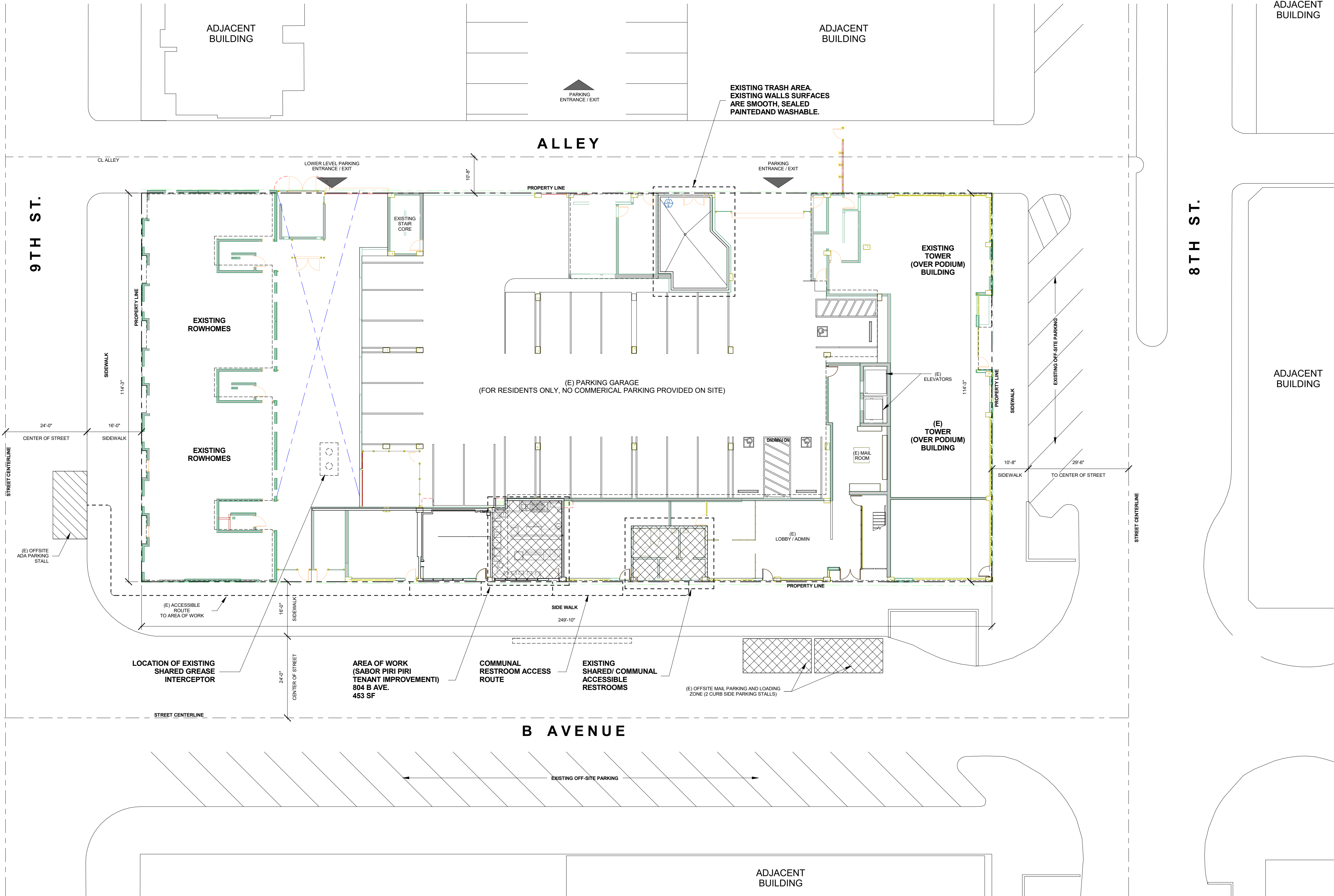
SHEET:

A0.5

REFERENCED INTERIOR WALL ASSEMBLIES FROM ORIGINAL BUILDING PERMIT SET APPROVED UNDER PERMIT# 2019-8703

DRAWN BY: JA
PROJECT # XX-XXX

NUMBER	DESCRIPTION	DATE
1	NC REV 1	02/17/2023
2	SD REV 1	02/17/2023
4	NC REV 3	07/24/2023



1 SITE PLAN
1/16" = 1'-0"

NOTES:
**PREVIOUS USE OF TENANT SPACE WAS AN EMPTY SHELL SPACE PREPARED FOR KITCHEN/COMMERCIAL FOOD/RETAIL ESTABLISHMENT.
NO HAZARDOUS MATERIALS WILL BE STORED OR USED WITHIN THE BUILDING WHICH EXCEED THE QUANTITIES LISTED IN IBC TABLES 307.1(1) AND 307.1(2)

REFERENCE NOTE:
**ALL ITEMS ON SITE PLAN, INCLUDING ACCESSIBLE OFF SITE STREET PARKING, ACCESSIBLE PATH AND RESTROOMS ARE FOR REFERENCE ONLY. ALL ITEMS WERE APPROVED UNDER PERMIT # 2019-8703

SABOR PIRI PIRI TENANT IMPROVEMENT
800 B AVENUE SUITE 804
NATIONAL CITY CA 91950

PROJECT:

DRAWINGS PREPARED BY:

BRANDON BLAKEMAN
No. C-34466
10/31/22
REN.
STATE OF CALIFORNIA

TITLE:
SITE PLAN

SHEET:
A1.0

DRAWN BY: JA
PROJECT # XX-XXX

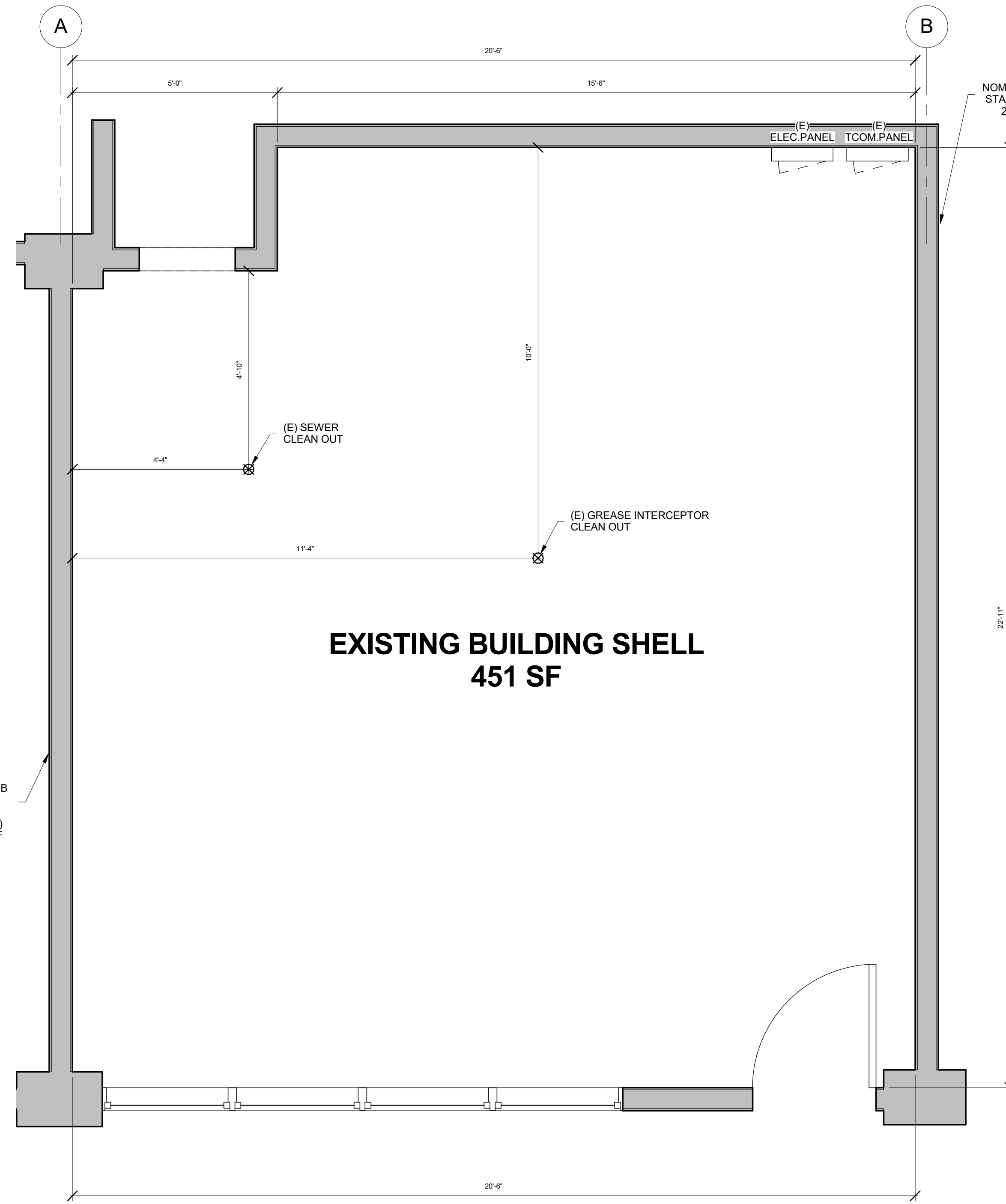
NUMBER	DESCRIPTION	DATE
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2	SD REV 1	02/17/2023
3	NC REV 2	07/05/2023
4	NC REV 3	07/24/2023

SABOR PIRI PIRI TENANT IMPROVEMENT
 800 B AVENUE SUITE 804
 NATIONAL CITY CA 91950

DRAWINGS PREPARED BY:

TITLE:
FLOOR PLANS

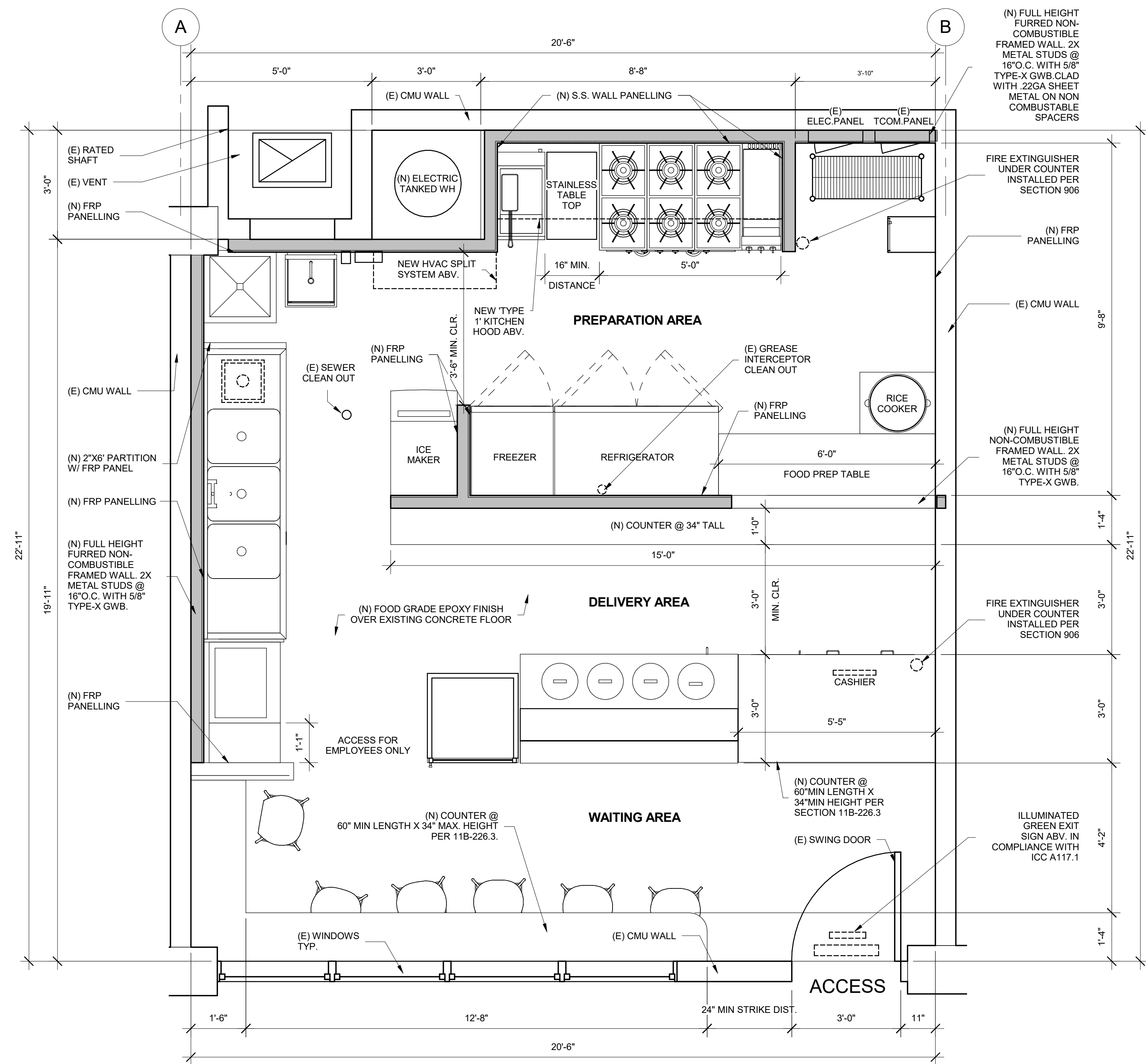
SHEET:
A1.1



1 (E) LEVEL 1 FLOOR PLAN
1/2" = 1'-0"

GENERAL NOTES

WALL AND CEILING MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
 ALL FOOD-RELATED AND UTENSIL-RELATED EQUIPMENT SHALL MEET OR BE EQUIVALENT TO SANITATION STANDARDS ESTABLISHED BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED PROGRAM.
 EXISTING GREASE TRAP WILL BE CLEANED ONCE A MONTH BY A SPECIALIZED COMPANY
 EXISTING COMMUNAL RESTROOMS SERVES EMPLOYEES AND CONSUMERS.
 NOTE: EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES AND SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES.
 DOOR WILL MAINTAIN 'UNLOCK' POSITION DURING BUSINESS HOURS
 ACCESS ONLY FOR EMPLOYEES
 ONE INCH AIR GAP TO FLOOR SINK FROM INDIRECT DISCHARGE OF 3 COMP SINK, PREP SINK AND WATER HEATER
 FRONT COUNTER (CASHIER AND DELIVERY AREA) COMPLIES WITH ADA STANDARDS
 PARTITION WALL 2X6" HIGH MIN. ANCHORED TO WALL AND CEILING COVERED WITH FRP PANEL.



2 (P) LEVEL 1 FLOOR PLAN
1/2" = 1'-0"

**** REFERENCE SHEET A1.3 FOR EQUIPMENT PLAN AND SCHEDULE ****

DOOR NOTES:

11B-404.2.9 DOOR AND GATE OPENING FORCE:
 1. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL BE AS FOLLOWS:
 A. INTERIOR HINGED DOORS AND GATES: 5 POUNDS (22.2 N) MAXIMUM.
 B. SLIDING OR FOLDING DOORS: 5 POUNDS (22.2 N) MAXIMUM.
 C. REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS (66.7 N).
 D. EXTERIOR HINGED DOORS: 5 POUNDS (22.2 N) MAXIMUM
 THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION (PER CBC 2019 SECTION 11B-404.2.9).
 2. ALL OPERABLE PARTS OF ALL DOORS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22.2 N) MAXIMUM.
 3. THRESHOLDS, IF PROVIDED AT DOORWAYS, SHALL BE 1/2 INCH (12.7MM) HIGH MAXIMUM, RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH SECTIONS 11B-302 AND 11B-303.
 THE LOWER 10" OF ALL DOORS WILL COMPLY WITH SECTION: 11B-404.2.10:
 A. TO BE SMOOTH AND UNINTERRUPTED TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST, WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
 B. NARROW FRAME DOORS MAY USE A 10" HIGH SMOOTH PANEL ON THE PUSH SIDE OF THE DOOR.

DOOR EXIT REQUIREMENTS:

1. EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. (CFC SECTION 1010.1.9)
 2. A READILY VISIBLE DURABLE SIGN IS POSTED ON THE EGRESS SIDE ON OR ADJACENT TO THE DOOR STATING: **THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED.** THE SIGN SHALL BE IN LETTERS 1 INCH HIGH ON A CONTRASTING BACKGROUND. (CFC, SECTION 1010.1.9.4)
 3. EXIT DOORS WILL BE A MINIMUM OF 3 FEET BY 6'-8" WITH A MINIMUM DOOR SWING OF 90 DEGREES.
 4. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH SECTION 11B-309.4 OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. (CBC 11B-404.2.7)

WINDOW SCHEDULE

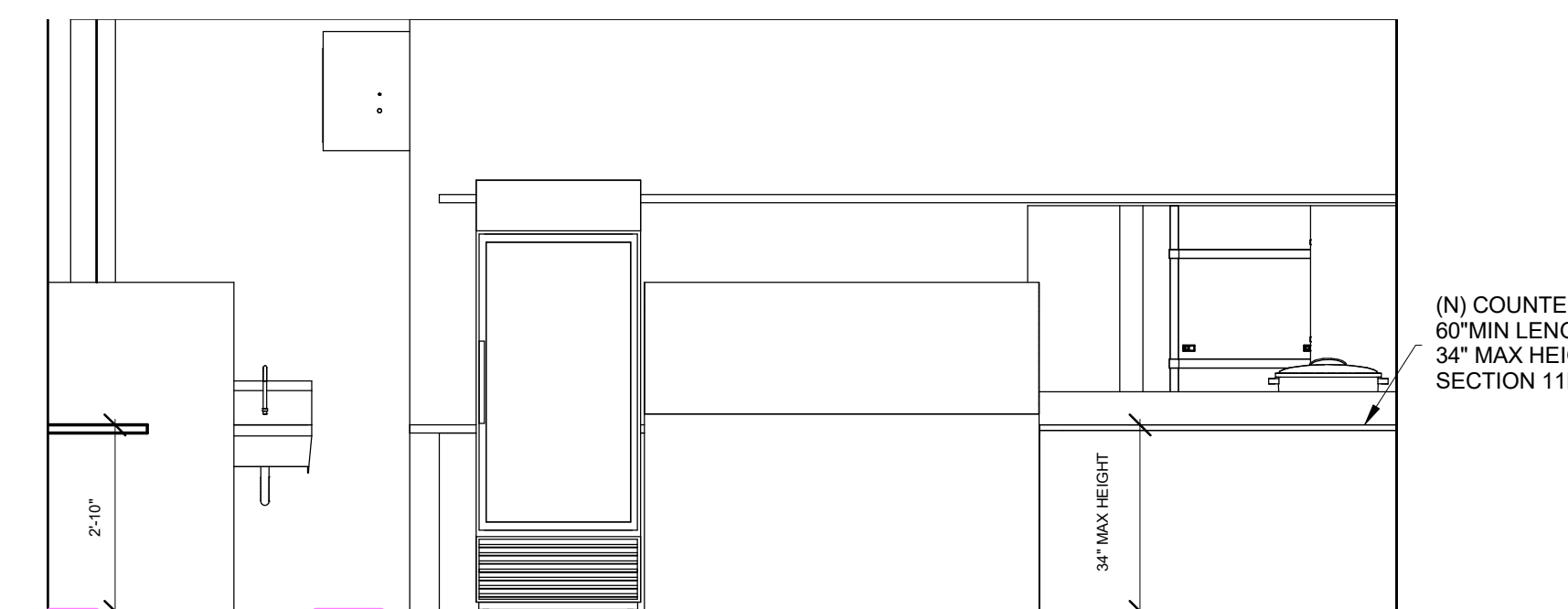
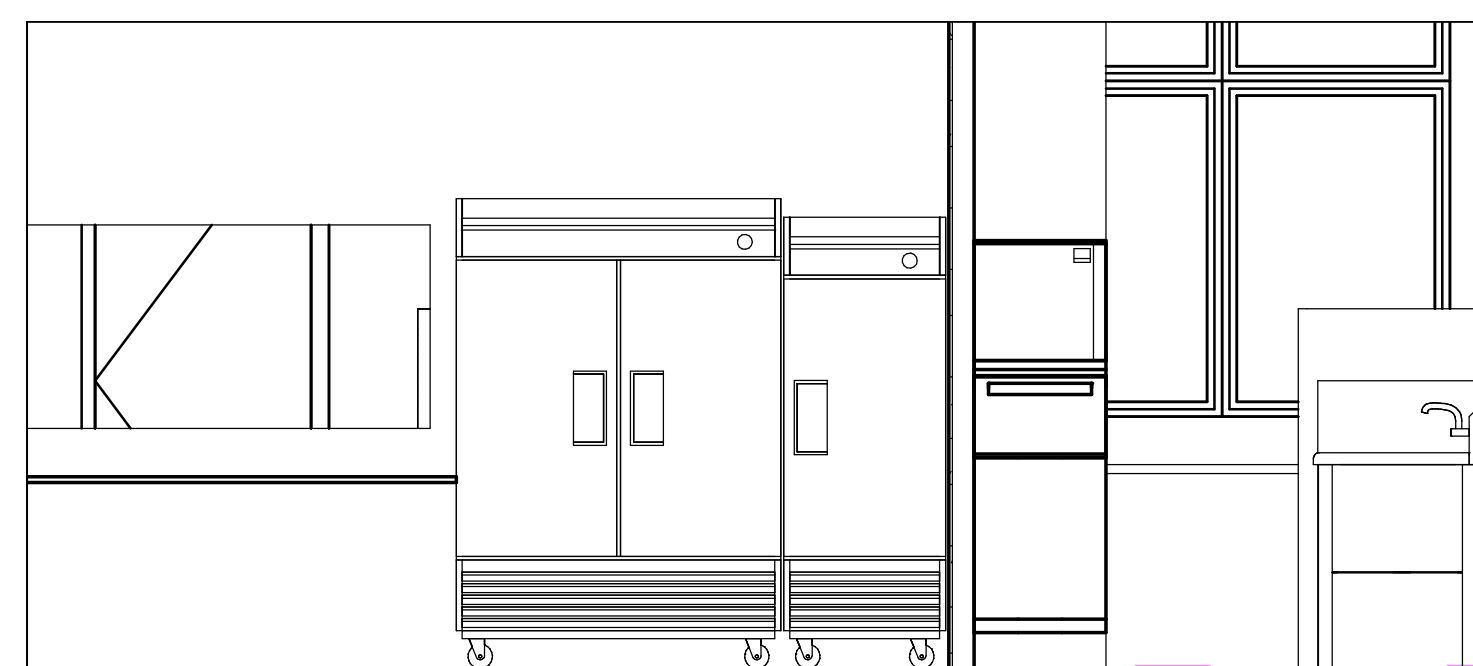
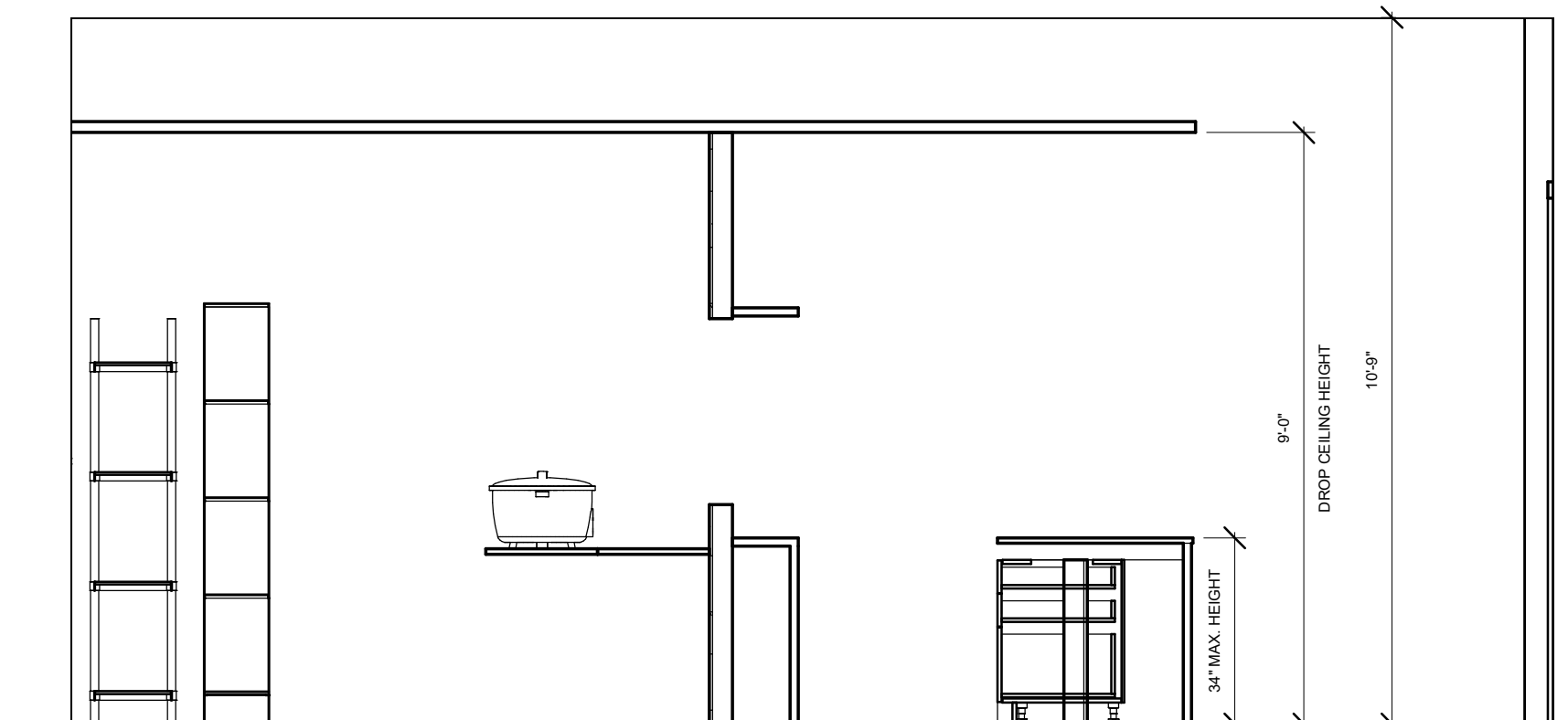
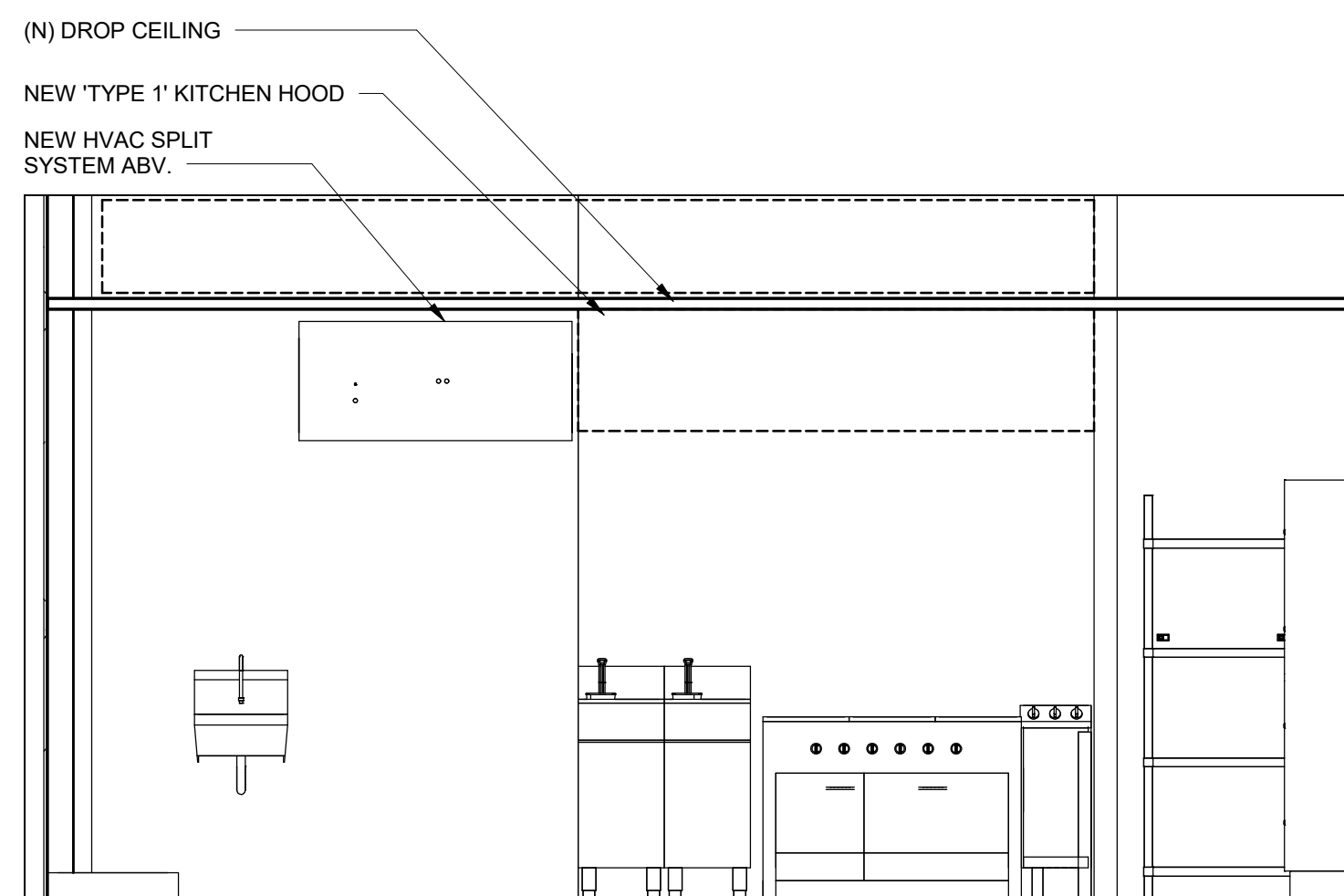
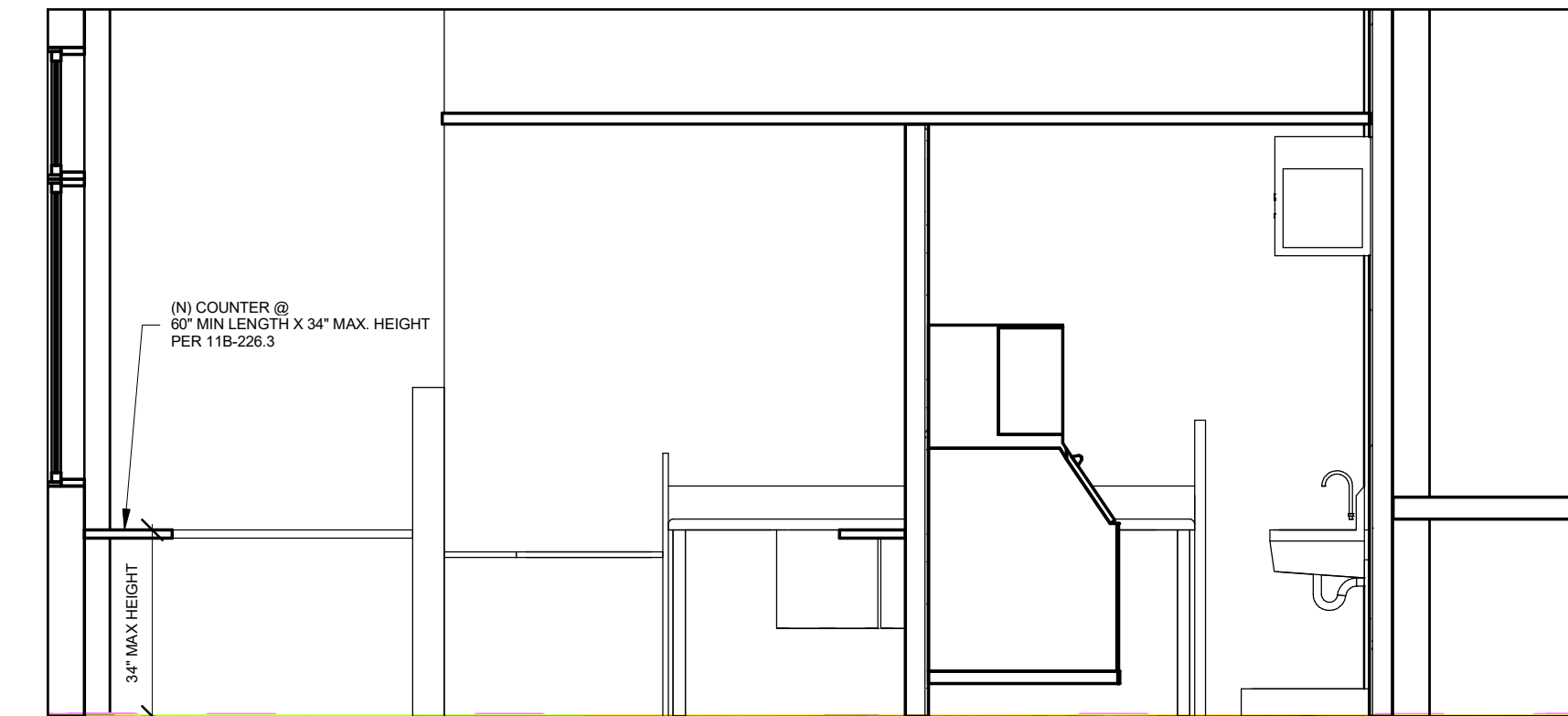
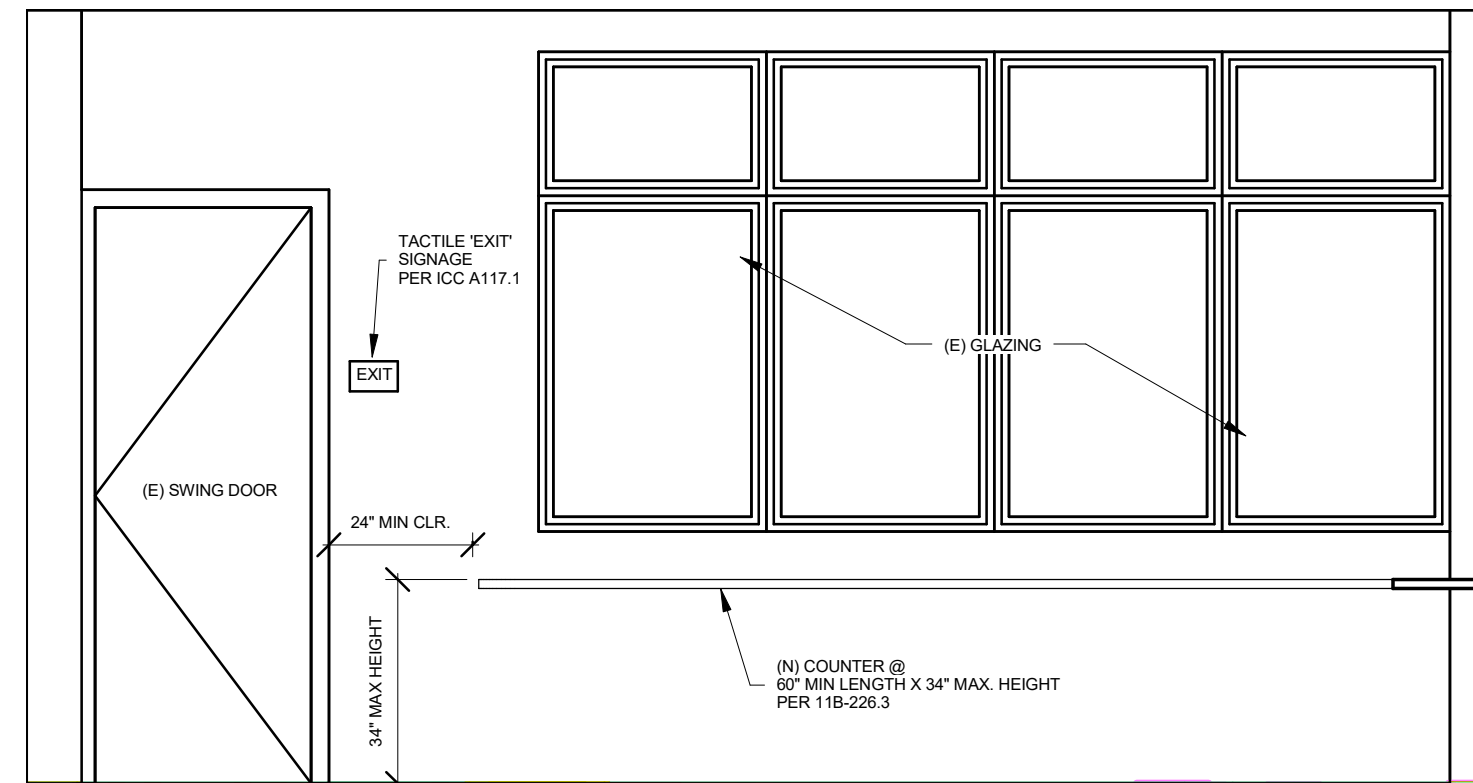
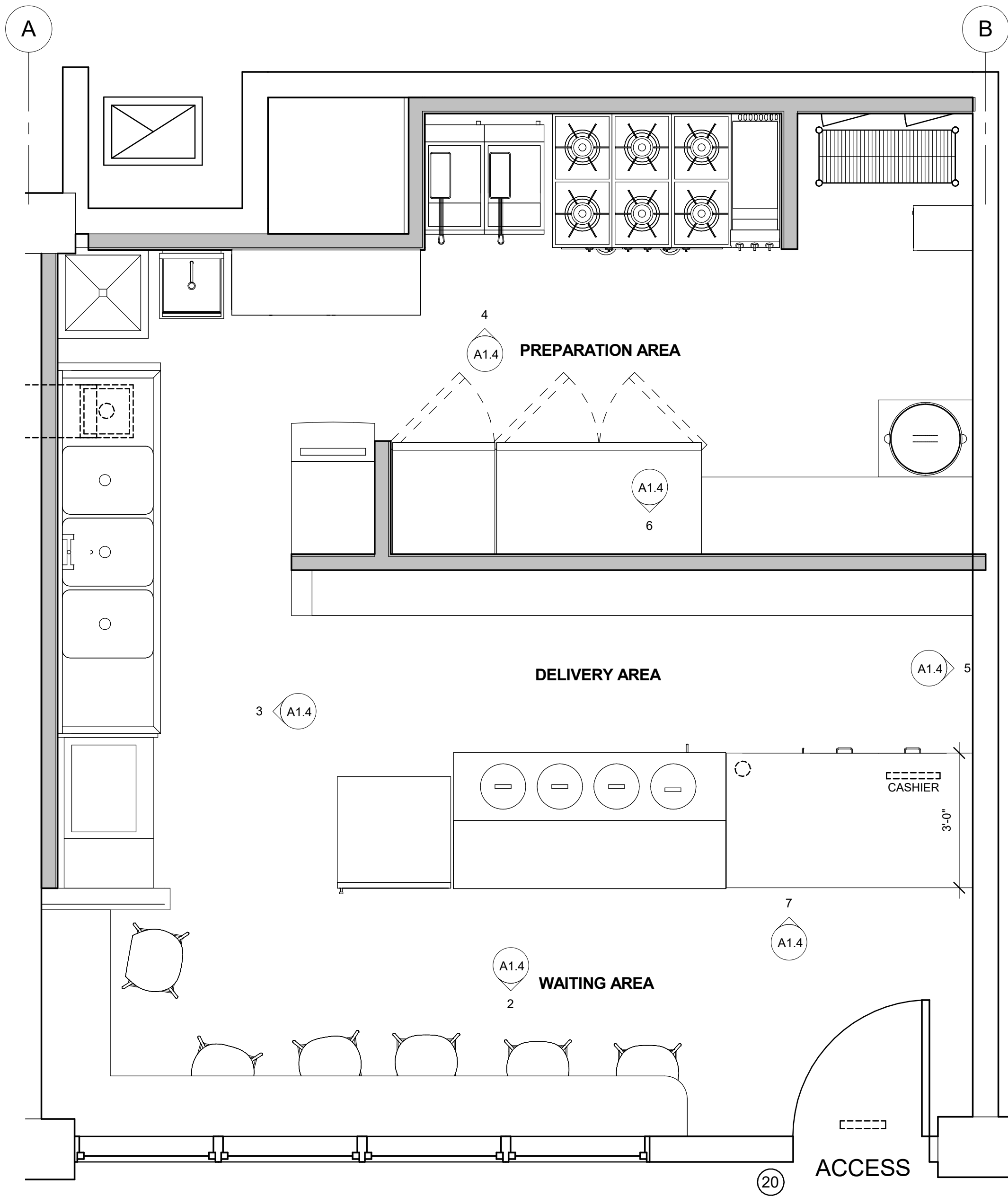
	TYPE	SIZE	MATERIAL	NOTES
EXISTING	MAIN FACADE WINDOW	3'-2" X 4'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 4'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 4'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 4'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 2'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 2'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 2'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 2'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE

DOOR SCHEDULE

	TYPE	SIZE	MATERIAL	TYPE	REMARKS
EXISTING	(E) MAIN ACCESS	3'-0" X 7'-0"	ALUMINUM AND SAFETY GLAZING	SWING	DOOR SELF-CLOSING AND TIGHTLY FITTED

DRAWN BY: JA
PROJECT # XX-XXX

NUMBER	DESCRIPTION	DATE
1	NC REV 1	02/17/2023
3	NC REV 2	07/05/2023
4	NC REV 3	07/24/2023

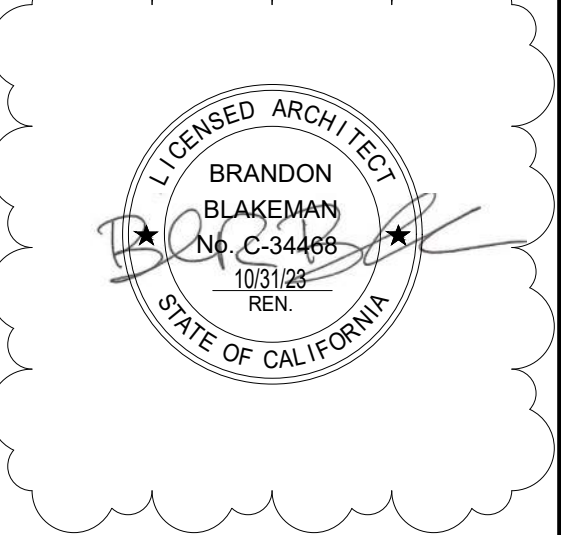


SABOR PIRI PIRI TENANT IMPROVEMENT

800 B AVENUE SUITE 804
NATIONAL CITY CA 91950

PROJECT:

DRAWINGS PREPARED BY:



TITLE:

INTERIOR ELEVATIONS

SHEET:

A1.4



DRAWN BY: PROJECT #

Table with 3 columns: NUMBER, DESCRIPTION, DATE

PROJECT: SABOR PIRI PIRI TENANT IMPROVEMENT 800 B AVE. SUITE 804 NATIONAL CITY CA 91950

DRAWINGS PREPARED BY:

TITLE: ELECTRICAL GENERAL NOTES

SHEET:

E0.1

GENERAL NOTES (AS APPLICABLE)

- 1. THE SEISMIC BRACING AND ANCHORAGE OF ELECTRICAL CONDUITS, BUS DUCT, WIREWAY, AND CABLE TRAY SHALL BE IN ACCORDANCE WITH THE 2019 CALIFORNIA ELECTRICAL CODE AND 'GUIDELINE FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS, 'PUBLISHED BY SMACNA AND PPIC, OR THE SUPERSTRUT-SEISMIC RESTRAINT SYSTEM, OR THE KIN-LINE SEISMIC RESTRAINT SYSTEM. ELECTRICAL EQUIPMENT MUST BE SEISMIC-CERTIFIED AND ANCHORED ACCORDING TO EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. [CEC 110.3(B), CBC 1613.1, ASCE 7, CHAPTER 13]

- 22. EQUIPMENT OUTLETS, LIGHTING FIXTURES, CONDUIT, WIRE, AND CONNECTION METHODS IN HVAC AIR-PLenums SHALL BE APPROVED FOR USE IN PLENUMS AND SHALL CONFORM TO THE APPLICABLE LOCAL CODE.
- 23. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILING SPACES PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.
- 24. CONDUIT SHALL NOT BE INSTALLED IN ANY FLOOR SLAB. CONDUIT SHALL BE INSTALLED CONCEALED IN THE CEILING SPACE, CONCEALED IN WALLS, OR 18" BELOW BOTTOM SLAB ON GRADE UNLESS NOTED OTHERWISE.

WHERE THE CODES HAVE DIFFERENT LEVELS OF REQUIREMENTS, THE MOST STRINGENT RULE SHALL APPLY.

- 3. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS, AND BY SUBMITTING A BID ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.
- 4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS AND SPECIFICATIONS. HE SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.

- 25. THE CONTRACTOR SHALL STRATEGICALLY LOCATE BOXES, ETC., IN AN ACCESSIBLE CEILING SPACE OR PROVIDE AN ACCESS PANEL FOR INACCESSIBLE CEILING SYSTEMS.
- 26. COORDINATE REQUIRED ACCESS DOORS IN NON-ACCESSIBLE CEILINGS TO SUIT FIELD CONDITIONS. THE EXACT SIZES AND PHYSICAL LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL BE PROVIDED IN OTHER SECTIONS OF THE SPECIFICATIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.
- 27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAWCUTTING, TRENCHING, BACKFILLING, COMPACTION AND PATCHING OF CONCRETE AND ASPHALT AS REQUIRED TO PERFORM HIS WORK. ATTENTION IS CALLED TO THE FACT THAT THERE ARE EXISTING UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN TRENCHING FOR HIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER AND APPROVED REPAIR OF ANY AND ALL DAMAGES CAUSED BY HIM OR HIS WORK.

- 5. ALL UTILITY WORK (POWER) SHALL BE IN COMPLIANCE WITH THESE DRAWINGS AND THE REQUIREMENTS OF THE SERVING UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE SERVING UTILITY TO RECEIVE COMPLETE INFORMATION ON THEIR REQUIREMENTS PRIOR TO THE SUBMISSION OF THE BID. THE ACT OF SUBMITTING THE BID SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO INSTALL SERVICE IN COMPLIANCE WITH THE SERVING UTILITY AND THE CONTRACT DOCUMENTS.
- 6. ALL ITEMS SUCH AS SERVICE CONDUIT, CONDUCTORS, DUCTS, CONCRETE PADS, TRANSFORMERS, RISERS, MANHOLES, PULL BOXES, AND PROTECTIVE COVERING FROM SERVICE LOCATION SHALL BE PROVIDED AND INSTALLED, AND SHALL BE VERIFIED WITH THE SERVING UTILITY COMPANY. THE CONTRACTOR SHALL INSTALL THE SERVICE IN COMPLIANCE WITH THE SERVING UTILITY COMPANY, AND SHALL PAY ALL CHARGES LEVIED BY THE SERVING UTILITY COMPANY FOR HIS SERVICE EXCEPT THE FIRST BILLING DEPOSIT. WHERE THE CONTRACT DOCUMENTS ARE MORE RESTRICTIVE, THE DOCUMENTS SHALL GOVERN.

- 28. WHENEVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, GROUND FAULT PROTECTION SYSTEMS, ETC. (ALL MATERIALS), ARISES ON THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ARCHITECT/ENGINEER.
- 29. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPE OF CEILING SYSTEMS AND TO FURNISH APPROVED LIGHTING FIXTURES OF THE TYPE REQUIRED FOR MOUNTING IN SUBJECT CEILING. WHERE FIXTURES ARE RECESSED IN PLASTER OR DRYWALL CEILINGS, THEY SHALL BE COMPLETE WITH NECESSARY MOUNTING HARDWARE AND PLASTER FRAMES.
- 30. ALL RECESSED LIGHTING FIXTURES, SPEAKERS, RECEPTACLES, SWITCHES, ETC., MOUNTED IN THE FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL.

- 7. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCIES AND UTILITY COMPANY.
- 8. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCORD WITH COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

- 31. UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES, SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED MATERIAL SECURELY INSTALLED.
- STEEL ELECTRICAL OUTLET BOXES WHICH DO NOT EXCEED 16 SQUARE INCHES IN AREA, NEED NOT BE PROTECTED IN ONE HOUR OR TWO HOUR FIRE RATED WALLS, PARTITIONS, CEILINGS, OR AREA SEPARATION UNLESS THEY:

- 9. THE CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS. THESE PRINTS SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. THIS SET OF DRAWINGS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTOR TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTION IN EACH CASE. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE ARCHITECT, AND ALL CHANGES AS NOTED ON THE RECORD SET OF DRAWINGS SHALL BE INCORPORATED THEREON WITH BLACK INK IN A NEAT, LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL MANNER. FAILURE TO KEEP RECORD DRAWINGS UP-TO-DATE SHALL CONSTITUTE CAUSE FOR WITHHOLDING OF PROGRESS PAYMENTS.
- 10. IN SOME INSTANCES, IT MAY BE NECESSARY TO DEFER WORK IN CERTAIN AREAS AND LOCATIONS UNTIL SUCH TIME AS EXISTING FACILITIES CAN BE TEMPORARILY OR PERMANENTLY REARRANGED BY THE OWNER. THEREFORE, WHENEVER IT BECOMES NECESSARY FOR THE CONTRACTOR TO PERFORM WORK UNDER THIS CONTRACT IN AREAS WHERE THE OWNER'S WORK IS BEING PERFORMED, THE CONTRACTOR SHALL ADVISE THE ARCHITECT AND THE OWNER RELATIVE TO THIS REQUIREMENT AND SHALL FOLLOW CLOSELY THE DIRECTIVE ISSUED BY THE ARCHITECT INsofar AS TIME AND PROCEDURE ARE CONCERNED. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL PREMIUM TIME TO WHICH HE MAY BE SUBJECTED FOR PERFORMING WORK IN SUCH PROCEDURE AND AT SUCH TIMES AS MAY BE NECESSARY TO CAUSE THE LEAST INTERFERENCE WITH THE OPERATIONS OF THE OWNER.
- 11. ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER, WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE OWNER AND ARCHITECT 14 CALENDAR DAYS PRIOR TO THE OUTAGE. ANY OVERTIME PAY SHALL BE INCLUDED IN THE CONTRACTOR'S BID. WORK IN EXISTING SWITCHBOARDS OR PANELBOARDS SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS.

OCUR ON OPPOSITE SIDES OF THE WALL WITHIN 24 INCH HORIZONTAL DISTANCE OF ONE ANOTHER. IN THIS CASE, ONLY ONE OUTLET BOX NEED TO BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL OR DETAIL TO CORRECT THIS CONDITION.

OCUR IN COMBINATION WITH OUTLET BOXES OF ANY SIZE SUCH THAT THE AGGREGATE AREA OF UNPROTECTED OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA. IN THIS CASE, ONLY A SUFFICIENT NUMBER OF OUTLET BOXES NEED BE PROTECTED BY AN APPROVED MATERIAL OR DETAIL TO DECREASE THE AGGREGATE AREA OF UNPROTECTED UTILITY BOXES TO LESS THAN 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL.

STEEL ELECTRICAL UTILITY BOXES WHICH EXCEED 16 SQUARE INCHES IN AREA, AND ALL OTHER STEEL UTILITY OUTLET BOXES REGARDLESS OF SIZE, SHALL BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL AS LISTED OR EQUAL.

- FIRESTOPPING MATERIAL: MPP-1 MOLDABLE PUTTY PADS 3M CONTRACTOR PRODUCTS MINNEAPOLIS, MN FSP FIRESTOP PUTTY PADS HEVI-DUTY NELSON PRODUCTS TULSA, OK FLAMESAFE FSP 1077 FIRESTOP PADS INTERNATIONAL PROTECTIVE COATINGS OAKHURST, NJ

- 12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TEMPORARY POWER FACILITIES AND CONNECTIONS FOR ALL FEEDERS OR SYSTEMS BEING DISCONNECTED IN ORDER TO MAINTAIN SYSTEMS IN OPERATION OR WHERE SAID FEEDERS OR SYSTEMS REQUIRE EMERGENCY STANDBY POWER.
- 13. SHOP DRAWINGS SHALL BE SUBMITTED WITHIN THIRTY DAYS AFTER AWARD OF THE CONTRACT. THE CONTRACTOR SHALL SUBMIT FIVE COPIES OF A COMPLETE LIST OF MATERIALS AND EQUIPMENT INCLUDING MANUFACTURER AND MODEL NUMBER PROPOSED FOR THE JOB. SHOP DRAWINGS SHALL INCLUDE JOB DESCRIPTION, ARCHITECT AND ENGINEER IDENTIFICATION, AND ALL DATA WITH CAPACITIES, SIZES, DIMENSIONS, CATALOG NUMBERS, AND MANUFACTURER'S BROCHURES. SHOP DRAWINGS shall BE SUBMITTED FOR ITEMS LISTED IN SPECIFICATIONS, PARTIAL, INCOMPLETE, OR UNBOUND SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. CONTRACTOR SHALL SUBMIT A SCHEDULE OF ALL SHOP DRAWINGS AND SUBMITTALS WHICH ARE TO BE REVIEWED WITHIN FIFTEEN CALENDAR DAYS OF CONTRACT AWARD.
- 14. AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNER WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.

STEEL UTILITY BOXES WHICH EXCEED 100 SQUARE INCHES IN AREA SHALL BE PROTECTED BY ENCASEMENT.

UTILITY AND ELECTRICAL OUTLETS OR BOXES SHALL BE SECURELY FASTENED TO THE STUD OF FRAMING OF THE WALL, PARTITION OR CEILING ASSEMBLY. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE GYPSUM BOARD DOES NOT EXCEED 1/8 INCH. IN SMOKE WALLS OR PARTITIONS, THE 1/8 INCH CLEARANCE SHALL BE FILLED WITH AN APPROVED FIRE-RATED SEALANT.

- 15. THE CONTRACTOR SHALL FURNISH A ONE YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF SUBSTANTIAL COMPLETION.
- 16. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND TO COORDINATE WITH THE MECHANICAL, FIRE PROTECTION AND PLUMBING DRAWINGS FOR DUCTS, LINES AND EQUIPMENT.
- 17. ALL EQUIPMENT MOUNTED ON ROOF FOR CONNECTION OF HVAC EQUIPMENT SHALL BE MOUNTED ON UNISTRUT STANDS UTILIZING APPROVED PITCH POCKETS, FLASHING, ETC.
- 18. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.
- 19. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT. SUPPLY POWER AND MAKE ELECTRICAL CONNECTIONS TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT, DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS SHALL BE PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT.

- 32. ARCHITECTURAL REFLECTED CEILING PLANS INDICATING THE LOCATION OF LIGHTING FIXTURES SHALL TAKE PRECEDENCE OVER THE LOCATIONS OF SAME SHOWN ON THE ELECTRICAL DRAWINGS. INSTALL THE LIGHTING FIXTURES IN ANY GIVEN AREA TO AGREE WITH THE REFLECTED CEILING PLANS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- 33. THE EXACT LOCATIONS AND MOUNTING HEIGHTS OF LIGHTING FIXTURES LOCATED IN MECHANICAL EQUIPMENT SPACES AND PENTHOUSES SHALL BE COORDINATED IN THE FIELD BEFORE INSTALLATION TO AVOID INTERFERENCE WITH DUCTS, PIPING, AND OTHER MECHANICAL EQUIPMENT. WHEN LOCATIONS AND MOUNTING HEIGHTS ARE DETERMINED, OBTAIN APPROVAL FROM THE ARCHITECT.

- 20. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE WALLS OR FLOORS OR STRUCTURAL STEEL MEMBERS SHALL BE DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAWCUTTING, PATCHING, AND REFINISHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR OR CEILING. EXACT METHOD AND LOCATIONS OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE UL APPROVED.
- 21. CONNECTIONS TO VIBRATING EQUIPMENT AND SEISMIC SEPARATIONS: LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS. LIQUID TIGHT FLEXIBLE STEEL CONDUIT IN AREAS EXPOSED TO WEATHER. DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES AND FINAL CONNECTIONS TO MOTORS.

- 34. LIGHT FIXTURE SUPPORT: SUSPENDED ACOUSTICAL CEILINGS:

HEAVY DUTY GRID SYSTEM: FLUSH OR RECESSED LIGHT FIXTURES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM. IN ADDITION, THEY SHALL HAVE A MINIMUM OF TWO 12 GAUGE SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4 FOOT BY 4 FOOT LIGHT FIXTURES SHALL HAVE SLACK SAFETY WIRES AT EACH CORNER. ALL FLUSH OR RECESSED LIGHT FIXTURES WEIGHING 56 POUNDS OR MORE SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT 12 GAUGE WIRES EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED. THE FOUR TAUT 12 GAUGES WIRES INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE SHALL BE CAPABLE OF SUPPORTING FOUR TIMES THE WEIGHT OF THE UNIT. INTERMEDIATE DUTY GRID SYSTEM: ALL FIXTURES SUPPORTED ON INTERMEDIATE DUTY GRID SYSTEMS SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT 12 GAUGE WIRES EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE.

- 22. CONNECTIONS TO VIBRATING EQUIPMENT AND SEISMIC SEPARATIONS: LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS. LIQUID TIGHT FLEXIBLE STEEL CONDUIT IN AREAS EXPOSED TO WEATHER. DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES AND FINAL CONNECTIONS TO MOTORS.
- PROVIDE SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN FLEXIBLE CONDUIT RUNS. MAXIMUM LENGTH SHALL BE SIX FEET UNLESS OTHERWISE NOTED.

SURFACE MOUNTED FIXTURES: SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A 12 GAUGE WIRE. THE CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT FEET OR LONGER.

PENDANT MOUNTED FIXTURES: SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER, AND CAPABLE OF SUPPORTING FOUR TIMES THE WEIGHT OF THE FIXTURE.

SUSPENDED DRYWALL CEILINGS:

ALL RECESSED OR DROP-IN LIGHT FIXTURES SHALL BE SUPPORTED DIRECTLY BY MAIN RUNNERS OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY MAIN RUNNERS. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE CEILING CONTRACTOR TO PROVIDE APPROPRIATE FRAMING AND LOCATION FOR FIXTURES.

SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO A MAIN RUNNER WITH A POSITIVE CLAMPING DEVICE MADE OF MATERIAL WITH A MINIMUM OF 1/4 GAUGE. ROTATIONAL SPRING CATCHES SHALL NOT BE ALLOWED.

EXISTING CEILING FIXTURES REMOVED TO ACCOMPLISH THE WORK SHALL BE REINSTALLED AS FOR NEW WORK.

- 35. REFER TO SINGLE LINE DIAGRAM AND FEEDER SCHEDULES FOR CONDUIT AND CONDUCTOR SIZE TO PANELS, TRANSFORMERS, MECHANICAL AND PLUMBING EQUIPMENT, ETC. CONDUIT RUNS MAY NOT BE SHOWN ON DRAWINGS, BUT ARE PART OF THIS CONTRACT.
- 36. STRAIGHT FEEDER, BRANCH CIRCUIT, AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.

- 37. MAXIMUM NUMBER OF CONDUCTORS IN OUTLET OR JUNCTION BOXES SHALL CONFORM TO THE 2019 CALIFORNIA ELECTRICAL CODE, ARTICLE 314.16(A) BUT IN NO CASE SHALL CONTAIN MORE THAN THE FOLLOWING NUMBER OF #12 AWG CONDUCTORS FOR THE SIZE OF BOX INDICATED. THE MINIMUM SIZE OUTLET OR JUNCTION BOX PERMITTED IN A WALL IS FOUR INCHES SQUARE BY 1-1/2 INCHES DEEP.

Table with 4 columns: SQ BY, INCHES, D, NUMBER OF CONDUCTORS

ALL OUTLET BOXES CONTAINING MORE THAN ONE DEVICE SHALL BE GANGED. TWO DEVICES DOUBLE GANGED, MINIMUM.

- 38. WHERE MULTI-HOMERUNS ARE INDICATED ON DRAWINGS INDICATING THE SAME PANELBOARD CIRCUIT NUMBER, PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING AND ROUTE ONE SET OF WIRES TO CIRCUIT BREAKERS.
- 39. THE NUMERALS SHOWN AT TOP OF LIGHT FIXTURE IDENTIFICATION SYMBOLS INDICATING THE NUMBER OF LIGHT FIXTURES REQUIRED SHALL NOT BE USED BY THE CONTRACTOR FOR HIS QUANTITY TAKE-OFF AT BIDDING, NOR FOR DETERMINATION OF HOW MANY FIXTURES WILL BE INSTALLED. THE CONTRACTOR SHALL INSTALL A LIGHT FIXTURE WHEREVER A FIXTURE OUTLET IS SHOWN ON THE DRAWINGS.

- 40. RECESSED PANELS AND CABINETS SHALL HAVE FIVE SPARE 3/4 INCH CONDUITS STUBBED UP INTO AN ACCESSIBLE CEILING SPACE AND CAPPED UNLESS OTHERWISE NOTED.
- 41. IDENTIFICATION NAMEPLATES SHALL BE MICARTA 1/8 INCH THICK AND OF APPROVED SIZE WITH BEVELED EDGES AND ENGRAVED WHITE LETTERS A MINIMUM OF 1/4 INCH HIGH ON BLACK BACKGROUND. NAMEPLATES SHALL BE PROVIDED FOR ALL CIRCUITS IN THE SERVICE DISTRIBUTION AND POWER DISTRIBUTION SWITCHBOARDS OR PANELBOARDS, MOTOR CONTROL CENTERS, LIGHTING DISTRIBUTION PANELBOARDS, SEPARATELY MOUNTED STARTING SWITCHES, DISCONNECTING SWITCHES, MOTOR CONTROL PUSHBUTTON STATIONS, SELECTOR SWITCHES, TRANSFORMERS, TERMINAL CABINETS, TELEPHONE CABINETS, ETC. ALL NAMEPLATES SHALL BE ATTACHED WITH SCREWS. PULL BOXES, JUNCTION BOXES, AND DEVICE BOXES SHALL BE MARKED WITH A PERMANENT MARKER.

- 42. THE EXACT LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATION. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE RECESSED IN WALLS UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN. UNLESS OTHERWISE NOTED, MOUNT ELECTRICAL DEVICES AT THE FOLLOWING HEIGHTS:

Table with 3 columns: WALL SWITCH, CONVENIENCE RECEPTACLE, TELEPHONE/DATA OUTLETS, OUTLETS AT COUNTERS, SET VERTICALLY TO TOP OF OUTLET BOX, SET VERTICALLY TO CENTER OF DEVICE, SET VERTICALLY TO CENTER OF DEVICE, ABOVE COUNTERS WITHOUT SPLASHES OR CENTERED IN SPLASH SET HORIZONTALLY

GENERAL USE ELECTRICAL RECEPTACLE, SWITCH AND CONTROL OUTLETS SHALL BE LOCATED NO MORE THAN 48 INCHES TO THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES TO THE BOTTOM OF THE OUTLET BOX ABOVE THE FINISHED FLOOR. [CBC 11B-308.1, 11B-308.2]

REVIEW ARCHITECTURAL ELEVATIONS OF CASEWORK. OUTLETS MOUNTED ABOVE OR BELOW, OR ADJACENT TO CASEWORK SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS, PRIOR TO FINAL ROUGH-IN. ELECTRICAL DRAWINGS SHALL GOVERN NUMBER AND TYPE OF OUTLETS. HOWEVER, LOCATIONS SHALL BE AS INDICATED ON ARCHITECTURAL ELEVATIONS. PROVIDE CONDUIT, WIRES, AND OUTLETS FOR WORK REQUIRED IN CASEWORK INSTALLATIONS. REFERENCE ARCHITECTURAL DETAILS FOR METHOD OF ROUTING CONDUIT THROUGH CASEWORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT-OUTS IN TILE OR COUNTER SPLASHES WHERE RECEPTACLES, OUTLETS, ETC., OCCUR. PROVIDE BOX EXTENSIONS THROUGH ALL CASEWORK. FINISH FLUSH WITH FACE OF SPLASH, CABINET, ETC.

MOUNTING HEIGHTS OF ALL DEVICES AND EQUIPMENT ARE FROM FINISHED FLOOR TO CENTER OF DEVICES AND EQUIPMENT UNLESS OTHERWISE NOTED. BOXES INSTALLED IN LOCATIONS NOT APPROVED BY THE ARCHITECT SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

- 43. DRAWINGS ARE DIAGRAMMATIC ONLY. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER SECTIONS. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES.
- 44. THE EQUIPMENT GROUNDING CONDUCTOR WHETHER SHOWN OR NOT ON CONDUIT RUNS SHALL RUN CONTINUOUS FROM PANEL TO LAST OUTLET. THIS WIRE SHALL BE PITGAILED IN EACH OUTLET FOR CONNECTION TO BOX AND DEVICE SO THAT IF DEVICE IS REMOVED, GROUND WILL NOT BE INTERRUPTED. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED GREEN CONDUCTORS - ALTERNATE METHODS OF IDENTIFICATION SHALL NOT BE USED. CONTRACTOR SHALL NOTIFY ELECTRICAL ENGINEER TO EXAMINE CONDUCTOR INSTALLATION PRIOR TO INSTALLATION OF DEVICES.
- 45. REFERENCE ARCHITECTURE AND STRUCTURAL DRAWINGS FOR HOUSEKEEPING PADS.
- 46. FURNISH AND INSTALL POWER DISTRIBUTION PANELBOARDS AS INDICATED ON THE DRAWINGS. PANELBOARDS SHALL COMPLY WITH NEMA STANDARD FOR PANELBOARDS AND FEDERAL SPECIFICATION W-P-115A. PANELBOARDS SHALL BE COMPLETE WITH COPPER BUS BARS AND 40 DEGREE CELSIUS THERMAL MAGNETIC BOLT-ON TYPE CIRCUIT BREAKERS AS INDICATED ON DRAWINGS. PANELBOARDS SHALL BE SQUARE D OR EQUAL BY SIEMENS, ITE, WESTINGHOUSE, OR GENERAL ELECTRIC.
- 47. RECEPTACLES SHALL BE SPECIFICATION GRADE, 20 AMP, NEMA 5-20R GROUNDING TYPE HUBBELL #8300, OR EQUAL BY PASS & SEYMOUR OR GENERAL ELECTRIC. COLOR SHALL BE SELECTED BY ARCHITECT.
- 48. SWITCHES SHALL BE 20 AMP, 120/277 VOLT RATED SILENT TYPE SPECIFICATION GRADE HUBBELL OR EQUAL BY PASS & SEYMOUR OR GENERAL ELECTRIC. COLOR SHALL BE SELECTED BY ARCHITECT.

MOUNTING HEIGHTS OF ALL DEVICES AND EQUIPMENT ARE FROM FINISHED FLOOR TO CENTER OF DEVICES AND EQUIPMENT UNLESS OTHERWISE NOTED. BOXES INSTALLED IN LOCATIONS NOT APPROVED BY THE ARCHITECT SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

- 49. DEVICE PLATES SHALL BE NYLON FOR THE NUMBER OF GANGS AND TYPE OF OPENINGS NECESSARY, HUBBELL OR EQUAL BY PASS & SEYMOUR OR GENERAL ELECTRIC. COLOR SHALL BE SELECTED BY ARCHITECT. PLATES SHALL BE ENGRAVED WITH PANEL AND CIRCUIT NUMBER.
- 50. RIGID GALVANIZED STEEL CONDUIT SHALL BE FULL WEIGHT TREATED TYPE ALUMINUM OR STEEL. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN WALLS OR CEILING SPACES WHERE NOT SUBJECT TO MECHANICAL DAMAGE. PVC SCHEDULE 40 MAY BE INSTALLED BENEATH SLAB OR BELOW GRADE. FLEXIBLE STEEL CONDUIT MAY BE USED AT FIXTURE AND OUTLET CONNECTIONS WITH NO RUNS LONGER THAN SIX FEET. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL CONDUIT RUNS.

- 51. RIGID GALVANIZED STEEL CONDUIT FITTINGS SHALL BE THREADED AND THOROUGHLY GALVANIZED. ELECTRICAL METALLIC TUBING (EMT) CONDUIT FITTINGS SHALL BE STEEL, RAINTIGHT THREADLESS COMPRESSION TYPE. DIE CAST, SET SCREW, OR INDENTER TYPE ARE NOT ACCEPTABLE. FLEXIBLE STEEL CONDUIT FITTINGS SHALL BE MALLEABLE IRON CLAMP, SQUEEZE TYPE OR STEEL TWIST-IN TYPE WITH INSULATED THROAT. SET SCREW TYPE IS NOT ACCEPTABLE.

- 52. FOR SMALL AC MOTORS NOT HAVING BUILT-IN THERMAL OVERLOAD PROTECTION, PROVIDE MANUAL MOTOR STARTERS WITH OVERLOAD HEATER ELEMENTS SIZED TO THE NAMEPLATE CURRENT RATINGS OF THE MOTOR. SMALL AC MOTORS WITH BUILT-IN THERMAL OVERLOAD PROTECTION, PROVIDE A HORSEPOWER RATED TOGGLE TYPE DISCONNECT SWITCH.
- 53. SAFETY SWITCHES SHALL BE HEAVY DUTY NEMA TYPE HD BY SQUARE D, SIEMENS, GENERAL ELECTRIC OR WESTINGHOUSE. SWITCHES SHALL BE RATED FOR THE NUMBER OF POLES, VOLTAGE, CURRENT AND HORSEPOWER RATINGS AS REQUIRED. PROVIDE FUSE PROTECTION BASED ON THE MOTOR NAMEPLATE RATINGS.

- 54. TERMINAL CABINETS SHALL BE GALVANIZED CODE SHEET STEEL, FLUSH OR SURFACE MOUNTED AS INDICATED ON THE DRAWINGS. OF IDENTICAL MANUFACTURE AS BRANCH CIRCUIT PANELS. FLUSH MOUNTED CABINETS SHALL BE PRIMED AND PAINTED. FINISH COLOR AS SELECTED BY ARCHITECT.
- 55. ALL CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM SIZE, TYPE THHN/THWN THERMOPLASTIC, 600 VOLT, 75 DEGREES CELSIUS WET AND 90 DEGREES CELSIUS DRY AND UL LISTED UNLESS NOTED OTHERWISE. CONDUCTORS #12 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #10 AWG AND LARGER SHALL BE STRANDED.

- 56. JUNCTION AND PULL BOXES: FOR INTERIOR DRY LOCATIONS, BOXES SHALL BE GALVANIZED ONE-PIECE KNOCOUT TYPE WITH REMOVABLE MACHINE SCREW SECURED COVERS. FOR OUTSIDE, DAMP, OR SURFACE LOCATIONS, BOXES SHALL BE HEAVY CAST ALUMINUM OR CAST IRON CONDUCTORS WITH REMOVABLE, GASKETED, NON-FERROUS MACHINE SCREW SECURED COVERS. BOXES SHALL BE SIZED FOR THE NUMBER AND SIZES OF CONDUCTORS AND CONDUIT ENTERING THE BOX AND EQUIPPED WITH PLASTER EXTENSION RINGS WHERE REQUIRED. BOXES SHALL BE LABELED TO INDICATE PANEL AND CIRCUIT NUMBER, OR TYPE OF SIGNAL OR COMMUNICATION SYSTEM.
- 57. WHERE LIGHTING FIXTURES REQUIRE THE USE OF ACRYLIC PLASTIC LENSES, THEY SHALL BE 100 PERCENT VIRGIN ACRYLIC THERMOPLASTIC NOT LESS THAN 0.125 INCHES THICK WITH AN UNPENETRATED DEPTH OF NOT LESS THAN 0.045 INCHES EQUAL TO KSH-K12 UNLESS NOTED OTHERWISE.

- 58. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT IN GENERAL CHARGE OF DESIGN AND THE SIGNATURE OF THE ARCHITECT OR PROFESSIONAL ENGINEER WHO HAS BEEN DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON A PARTICULAR PLAN. APPROVED AND APPROVED BY FIRE MARSHALL. THE FIRE ALARM SYSTEM INDICATED IN THESE DRAWINGS SHALL BE USED FOR BIDDING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT FIRE ALARM SYSTEM SHOP DRAWINGS TO FIRE MARSHALL FOR APPROVAL PRIOR TO INSTALLATION. SYSTEM SHALL MEET THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.
- 59. EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. THE IDENTIFICATION SHALL BE INCLUDED IN A CIRCUIT DIRECTORY THAT IS LOCATED ON THE FACE OF OR INSIDE OF THE PANEL DOOR IN THE CASE OF A PANELBOARD, AND LOCATED AT EACH SWITCH OR CIRCUIT BREAKER IN A SWITCHBOARD.

- 60. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED OR CERTIFIED BY THE AHJ RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT.
- 61. ALL SERVICE, FEEDERS OR BRANCH CIRCUITS SUPPLYING A BUILDING SHALL HAVE COMMON GROUNDING ELECTRODE SYSTEM, 250.58.
- 62. ALL GROUNDING ELECTRODES THAT ARE PRESENT AT EACH BUILDING OR STRUCTURE SHALL BE BONDED TOGETHER, 250.12.
- 63. ALL EQUIPMENT FASTENED IN PLACE OR CONNECTED BY PERMANENT WIRING METHOD SHALL BE GROUNDED, 250.110 & 112.

- 64. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ENGINEER OF RECORD AT NO ADDITIONAL COST TO THE OWNER OR ENGINEER OF RECORD.

- 65. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ENGINEER OF RECORD AT NO ADDITIONAL COST TO THE OWNER OR ENGINEER OF RECORD.

GENERAL NOTE:

COORDINATE WORK WITH ALL TRADES AT THE SITE. COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ENGINEER OF RECORD AT NO ADDITIONAL COST TO THE OWNER OR ENGINEER OF RECORD.

ELECTRICAL SHEET INDEX table with columns: Sheet #, Sheet Name

REVIEW ARCHITECTURAL ELEVATIONS OF CASEWORK. OUTLETS MOUNTED ABOVE OR BELOW, OR ADJACENT TO CASEWORK SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS, PRIOR TO FINAL ROUGH-IN. ELECTRICAL DRAWINGS SHALL GOVERN NUMBER AND TYPE OF OUTLETS. HOWEVER, LOCATIONS SHALL BE AS INDICATED ON ARCHITECTURAL ELEVATIONS. PROVIDE CONDUIT, WIRES, AND OUTLETS FOR WORK REQUIRED IN CASEWORK INSTALLATIONS. REFERENCE ARCHITECTURAL DETAILS FOR METHOD OF ROUTING CONDUIT THROUGH CASEWORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT-OUTS IN TILE OR COUNTER SPLASHES WHERE RECEPTACLES, OUTLETS, ETC., OCCUR. PROVIDE BOX EXTENSIONS THROUGH ALL CASEWORK. FINISH FLUSH WITH FACE OF SPLASH, CABINET, ETC.

MOUNTING HEIGHTS OF ALL DEVICES AND EQUIPMENT ARE FROM FINISHED FLOOR TO CENTER OF DEVICES AND EQUIPMENT UNLESS OTHERWISE NOTED. BOXES INSTALLED IN LOCATIONS NOT APPROVED BY THE ARCHITECT SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

- 43. DRAWINGS ARE DIAGRAMMATIC ONLY. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER SECTIONS. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES.
- 44. THE EQUIPMENT GROUNDING CONDUCTOR WHETHER SHOWN OR NOT ON CONDUIT RUNS SHALL RUN CONTINUOUS FROM PANEL TO LAST OUTLET. THIS WIRE SHALL BE PITGAILED IN EACH OUTLET FOR CONNECTION TO BOX AND DEVICE SO THAT IF DEVICE IS REMOVED, GROUND WILL NOT BE INTERRUPTED. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED GREEN CONDUCTORS - ALTERNATE METHODS OF IDENTIFICATION SHALL NOT BE USED. CONTRACTOR SHALL NOTIFY ELECTRICAL ENGINEER TO EXAMINE CONDUCTOR INSTALLATION PRIOR TO INSTALLATION OF DEVICES.
- 45. REFERENCE ARCHITECTURE AND STRUCTURAL DRAWINGS FOR HOUSEKEEPING PADS.
- 46. FURNISH AND INSTALL POWER DISTRIBUTION PANELBOARDS AS INDICATED ON THE DRAWINGS. PANELBOARDS SHALL COMPLY WITH NEMA STANDARD FOR PANELBOARDS AND FEDERAL SPECIFICATION W-P-115A. PANELBOARDS SHALL BE COMPLETE WITH COPPER BUS BARS AND 40 DEGREE CELSIUS THERMAL MAGNETIC BOLT-ON TYPE CIRCUIT BREAKERS AS INDICATED ON DRAWINGS. PANELBOARDS SHALL BE SQUARE D OR EQUAL BY SIEMENS, ITE, WESTINGHOUSE, OR GENERAL ELECTRIC.
- 47. RECEPTACLES SHALL BE SPECIFICATION GRADE, 20 AMP, NEMA 5-20R GROUNDING TYPE HUBBELL #8300, OR EQUAL BY PASS & SEYMOUR OR GENERAL ELECTRIC. COLOR SHALL BE SELECTED BY ARCHITECT.
- 48. SWITCHES SHALL BE 20 AMP, 120/277 VOLT RATED SILENT TYPE SPECIFICATION GRADE HUBBELL OR EQUAL BY PASS & SEYMOUR OR GENERAL ELECTRIC. COLOR SHALL BE SELECTED BY ARCHITECT.

MOUNTING HEIGHTS OF ALL DEVICES AND EQUIPMENT ARE FROM FINISHED FLOOR TO CENTER OF DEVICES AND EQUIPMENT UNLESS OTHERWISE NOTED. BOXES INSTALLED IN LOCATIONS NOT APPROVED BY THE ARCHITECT SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

- 49. DEVICE PLATES SHALL BE NYLON FOR THE NUMBER OF GANGS AND TYPE OF OPENINGS NECESSARY, HUBBELL OR EQUAL BY PASS & SEYMOUR OR GENERAL ELECTRIC. COLOR SHALL BE SELECTED BY ARCHITECT. PLATES SHALL BE ENGRAVED WITH PANEL AND CIRCUIT NUMBER.
- 50. RIGID GALVANIZED STEEL CONDUIT SHALL BE FULL WEIGHT TREATED TYPE ALUMINUM OR STEEL. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN WALLS OR CEILING SPACES WHERE NOT SUBJECT TO MECHANICAL DAMAGE. PVC SCHEDULE 40 MAY BE INSTALLED BENEATH SLAB OR BELOW GRADE. FLEXIBLE STEEL CONDUIT MAY BE USED AT FIXTURE AND OUTLET CONNECTIONS WITH NO RUNS LONGER THAN SIX FEET. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL CONDUIT RUNS.

- 51. RIGID GALVANIZED STEEL CONDUIT FITTINGS SHALL BE THREADED AND THOROUGHLY GALVANIZED. ELECTRICAL METALLIC TUBING (EMT) CONDUIT FITTINGS SHALL BE STEEL, RAINTIGHT THREADLESS COMPRESSION TYPE. DIE CAST, SET SCREW, OR INDENTER TYPE ARE NOT ACCEPTABLE. FLEXIBLE STEEL CONDUIT FITTINGS SHALL BE MALLEABLE IRON CLAMP, SQUEEZE TYPE OR STEEL TWIST-IN TYPE WITH INSULATED THROAT. SET SCREW TYPE IS NOT ACCEPTABLE.

- 52. FOR SMALL AC MOTORS NOT HAVING BUILT-IN THERMAL OVERLOAD PROTECTION, PROVIDE MANUAL MOTOR STARTERS WITH OVERLOAD HEATER ELEMENTS SIZED TO THE NAMEPLATE CURRENT RATINGS OF THE MOTOR. SMALL AC MOTORS WITH BUILT-IN THERMAL OVERLOAD PROTECTION, PROVIDE A HORSEPOWER RATED TOGGLE TYPE DISCONNECT SWITCH.
- 53. SAFETY SWITCHES SHALL BE HEAVY DUTY NEMA TYPE HD BY SQUARE D, SIEMENS, GENERAL ELECTRIC OR WESTINGHOUSE. SWITCHES SHALL BE RATED FOR THE NUMBER OF POLES, VOLTAGE, CURRENT AND HORSEPOWER RATINGS AS REQUIRED. PROVIDE FUSE PROTECTION BASED ON THE MOTOR NAMEPLATE RATINGS.

- 54. TERMINAL CABINETS SHALL BE GALVANIZED CODE SHEET STEEL, FLUSH OR SURFACE MOUNTED AS INDICATED ON THE DRAWINGS. OF IDENTICAL MANUFACTURE AS BRANCH CIRCUIT PANELS. FLUSH MOUNTED CABINETS SHALL BE PRIMED AND PAINTED. FINISH COLOR AS SELECTED BY ARCHITECT.
- 55. ALL CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM SIZE, TYPE THHN/THWN THERMOPLASTIC, 600 VOLT, 75 DEGREES CELSIUS WET AND 90 DEGREES CELSIUS DRY AND UL LISTED UNLESS NOTED OTHERWISE. CONDUCTORS #12 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #10 AWG AND LARGER SHALL BE STRANDED.

- 56. JUNCTION AND PULL BOXES: FOR INTERIOR DRY LOCATIONS, BOXES SHALL BE GALVANIZED ONE-PIECE KNOCOUT TYPE WITH REMOVABLE MACHINE SCREW SECURED COVERS. FOR OUTSIDE, DAMP, OR SURFACE LOCATIONS, BOXES SHALL BE HEAVY CAST ALUMINUM OR CAST IRON CONDUCTORS WITH REMOVABLE, GASKETED, NON-FERROUS MACHINE SCREW SECURED COVERS. BOXES SHALL BE S

ABBREVIATIONS

A	AMPERE
AC	ABOVE COUNTER
AFC	AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CURRENT
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAGE
BRKR	BREAKER
C	CONDUIT
CATV	COMMUNITY ANTENNA TELEVISION
CMIL	CIRCULAR MIL
CU	COPPER
DISC	DISCONNECT
EC	ELECTRICAL CONTRACTOR
EGC	EQUIPMENT GROUNDING CONDUCTOR
EM/EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING
EX/EXIST	EXISTING
FLC	FLEXIBLE METAL CONDUIT
G	GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER
GFPE	GROUND-FAULT PROTECTION OF EQUIPMENT
HACR	HEATING, AIR CONDITIONING, AND REFRIGERATION
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HZ	HERTZ (CYCLE PER SECOND)
IBT	INTERNATIONAL BONDING TERMINATION
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
K	KELVIN
KCMIL	ONE THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERES
KVAR	KILOVOLT-AMPERE REACTIVE
KW	KILOWATT
LED	LIGHT-EMITTING DIODE
LR	LOCKED-ROTOR CURRENT
MCB	MAIN CIRCUIT BREAKER
MG SET	MOTOR-GENERATOR SET
MLO	MAIN LUGS ONLY
MW	MEGAWATTS
NEC	NATIONAL ELECTRICAL CODE (NFPA 70)
NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHTLIGHT
P	POLE
PART	PARTIAL CIRCUIT
PC	PHOTOCELL
PF	POWER FACTOR
PNLBD	PANELBOARD
PoE	POWER OVER ETHERNET
RMC	RIGID METAL CONDUIT
RNC	RIGID NONMETALLIC CONDUIT
RR	RESTROOM
RTU	ROOF TOP UNIT
SEC	SECTION
SPD	SURGE-PROTECTION DEVICE
SWD	SWITCHING DUTY
TR	TAMPER-RESISTANT
TS	TIMESWITCH
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
V	VOLT
VA	VOLT-AMPERE
V AC	VOLTS ALTERNATING CURRENT
V AR	VOLTS-AMPERE REACTIVE
VOM	VOLT-OHM-MULTIMETER
W	WATT
W-HR	WATT-HOUR
WP	WEATHERPROOF
WPT	WIRELESS POWER TRANSFER
WPTE	WIRELESS POWER TRANSFER EQUIPMENT
WR	WEATHER RESISTANT
XFMR	TRANSFORMER

ABBREVIATIONS OF CABLES

AC	ARMORED CABLE
CATV	COAXIAL GENERAL-PURPOSE CABLE
MC	META-CLAD CABLE
SE	SERVICE-ENTRANCE CABLE
THW	THERMOPLASTIC, HEAT AND MOISTURE RESISTANT CABLE
THHN	THERMOPLASTIC, HEAT RESISTANT CABLE, NYLON JACKET OUTER SHEATH
THHW	THERMOPLASTIC, HEAT AND MOISTURE RESISTANT CABLE
THWN	THERMOPLASTIC, MOISTURE AND HEAT RESISTANT CABLE, NYLON JACKET OUTER SHEATH

ELECTRICAL POWER GENERAL NOTES

A. REMOVE ALL UNUSED CABLING, WIRE AND CONDUIT IN THIS SPACE. TERMINATE CONDUITS OUTSIDE ELECTRICAL ROOM WITH A JUNCTION BOX. TURN BREAKER OFF AND UPDATE PANEL DIRECTORY TO INDICATE SPARE BREAKER AND DATE OF CHANGE.

B. COORDINATE LOCATIONS OF ALL DEVICES AND JUNCTION BOXES WITH THE EQUIPMENT INSTALLER.

C. CONTRACTOR SHALL NOT INSTALL MORE THAN THREE CIRCUITS (3 PHASE WIRES, 1-NEUTRAL + 1-GROUND) IN A COMMON CONDUIT, EXCEPT WHERE SPECIFICALLY NOTED AND ALLOWED. WHERE MORE THAN THREE CURRENT CARRYING CONDUCTORS (EXAMPLE: 3 PHASE WIRES + 1 CURRENT CARRYING NEUTRAL CONDUCTOR) ARE INSTALLED IN A COMMON CONDUIT, THE AMPACITY OF ALL CURRENT-CARRYING CONDUCTORS SHALL BE DERATED PER 2017 NEC ARTICLE 310-15 (B)(2)(a).

EXAMPLE: (6)-20AMP CKTS WITH 8 CURRENT CARRYING WIRES IN A COMMON CONDUIT MUST USE MINIMUM #10 WIRE 70% X 35A = 24.5 AMPS. PROVIDE COMMON TRIP BREAKERS FOR MULTIWIRE CIRCUITS PER 2017 ARTICLE 210.4 (B).

D. ALL WORK PERFORMED IN THE BUILDING SHALL COMPLY WITH BUILDING MANAGEMENT CONTRACTOR RULES AND REGULATIONS.

E. ALL ELECTRICAL DEVICES, PENETRATIONS AND EQUIPMENT LOCATED WITHIN IDENTIFIED CLASSIFIED HAZARDOUS SPACES/AREAS SHALL BE PROVIDED AND INSTALLED PER SPECIFIED NEC CLASS & DIVISION SPACE SPECIFICATIONS AND REQUIREMENTS (CLASS 1, DIVISION 2 SPACE).

ELECTRICAL GENERAL NOTES

APPLIES TO ALL SHEETS:

A. ALL ABANDONED CABLES AND CONDUIT MUST BE REMOVED BACK TO SOURCE.

B. ELECTRICAL PANEL SCHEDULES MUST BE LABELED ACCORDING TO THE DRAWINGS

C. ELECTRICAL PANEL SCHEDULES MUST BE COMPUTER GENERATED OR TYPEWRITTEN TO INCLUDE OFFICE AREA SERVED AND PLACED ON THE ELECTRICAL PANEL COVER.

D. ALL ELECTRICAL BOXES LOCATED ABOVE THE PLENUM MUST HAVE A COVER ON THEM, TO INCLUDE J-BOX, GUTTER BOXES, ETC.

E. ALL FLOOR PENETRATIONS MUST BE PROPERLY SEALED.

F. PHONE/DATA CABLE SHALL BE INSTALLED IN A NEAT AND PROFESSIONAL APPEARANCE AND BE LABELED WITH THE EQUIPMENT IT FEEDS, WHERE THE RUN STARTS AND FINISHES AND THE VENDOR RESPONSIBLE FOR THE INSTALLATION.

G. FLEXIBLE METAL CONDUIT IS NOT PERMITTED BEYOND 15 FEET IN LENGTH.

H. IT SHALL BE NOTED THAT ALL CIRCUITS WITHIN THE SUITE SHALL BE CIRCUIT TRACED TO ENSURE NONE ARE FED FROM A PANEL THAT IS BEING METERED BY ANOTHER TENANT.

I. PROVIDE IECC COMPLIANCE CALCULATION/REPORT AS PART OF THIS SUBMITTAL FOR PERMIT.

J. CONTRACTOR SHALL REFERENCE AND FOLLOW ALL BUILDING RULES AND REGULATIONS.

K. THE SPACE EQUAL TO THE WIDTH AND DEPTH FOOTPRINT OF ELECTRICAL SERVICE EQUIPMENT INCLUDING SWITCHBOARDS, PANELBOARDS AND METERING EQUIPMENT MUST BE DEDICATED TO THE ELECTRICAL INSTALLATION EXTENDING FROM THE FLOOR TO A HEIGHT 6 FEET ABOVE THE EQUIPMENT. NO FOREIGN SYSTEMS, PIPING OR DUCTS ARE PERMITTED IN THIS AREA.

L. PERSONNEL DOORS IN ELECTRICAL ROOMS SHALL BE EQUIPPED WITH PANIC BARS, PRESSURE PLATES OR OTHER DEVICES THAT ARE NORMALLY LATCHED BUT OPEN UNDER SIMPLE PRESSURE. COORDINATE WITH ARCHITECT AND HARDWARE VENDOR.

ELECTRICAL LIGHTING GENERAL NOTES

A. REFER TO ARCH. REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES. VERIFY FIXTURE AND CEILING COMPATIBILITY PRIOR TO ORDERING FIXTURES.

B. FURNISH AND INSTALL SECURITY CLIPS ON ALL FOUR SIDES OF 2'X4', 2'X2' AND 1'X4' RECESSED FIXTURES. SEE GENERAL LIGHTING NOTE (LIGHTING FIXTURE SCHEDULE).

C. CONNECT ALL EXIT LIGHTS TO UN-SWITCHED POWER AHEAD OF ALL LIGHT SWITCHES AND LIGHTING CONTROL PANEL. EXIT LIGHTS ARE SWITCHED AT PANEL ONLY.

D. EXISTING FIXTURES: EXISTING FIXTURES INDICATED TO BE RE-USED SHALL BE CLEANED AND RE-LAMPED. E.C. TO EXAMINE CONDITION OF EXISTING BALLASTS, REPLACE IF NOISY AND/OR INOPERATIVE. ALL BALLASTS DATED BEFORE 1976 ARE PRESUMED TO CONTAIN PCB AND SHALL BE REMOVED BY E.C. DISPOSE OF SUCH BALLASTS IN STRICT COMPLIANCE WITH APPLICABLE FEDERAL AND STATE LAWS AND LOCAL ORDINANCES. FIXTURE NOT INDICATED FOR RE-USE SHALL BE DELIVERED TO A LOCATION TO BE SPECIFIED BY OWNER. DISPOSE OF SUCH FIXTURES IF NOT NEEDED BY OWNER.

E. NONE

F. ALL WORK PERFORMED IN THE BUILDING SHALL COMPLY WITH BUILDING MANAGEMENT CONTRACTOR RULES AND REGULATIONS.

G. CONTRACTOR SHALL REFERENCE AND FOLLOW ALL BUILDING RULES AND REGULATIONS.

H. ALL ELECTRICAL DEVICES, PENETRATIONS AND EQUIPMENT LOCATED WITHIN IDENTIFIED CLASSIFIED HAZARDOUS SPACES/AREAS SHALL BE PROVIDED AND INSTALLED PER SPECIFIED NEC CLASS & DIVISION SPACE SPECIFICATIONS AND REQUIREMENTS (CLASS 1, DIVISION 2 SPACE).

FIRE ALARM SYSTEM NOTES:

FIRE ALARM SYSTEM CONSTRUCTION DOCUMENTS FOR THE SCOPE OF WORK INDICATED IN THIS PROJECT SHALL BE SUBMITTED, CA FOR APPROVAL PRIOR TO COMMENCING FIRE ALARM WORK AND THE INSTALLATION MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION AFTER COMPLETION.

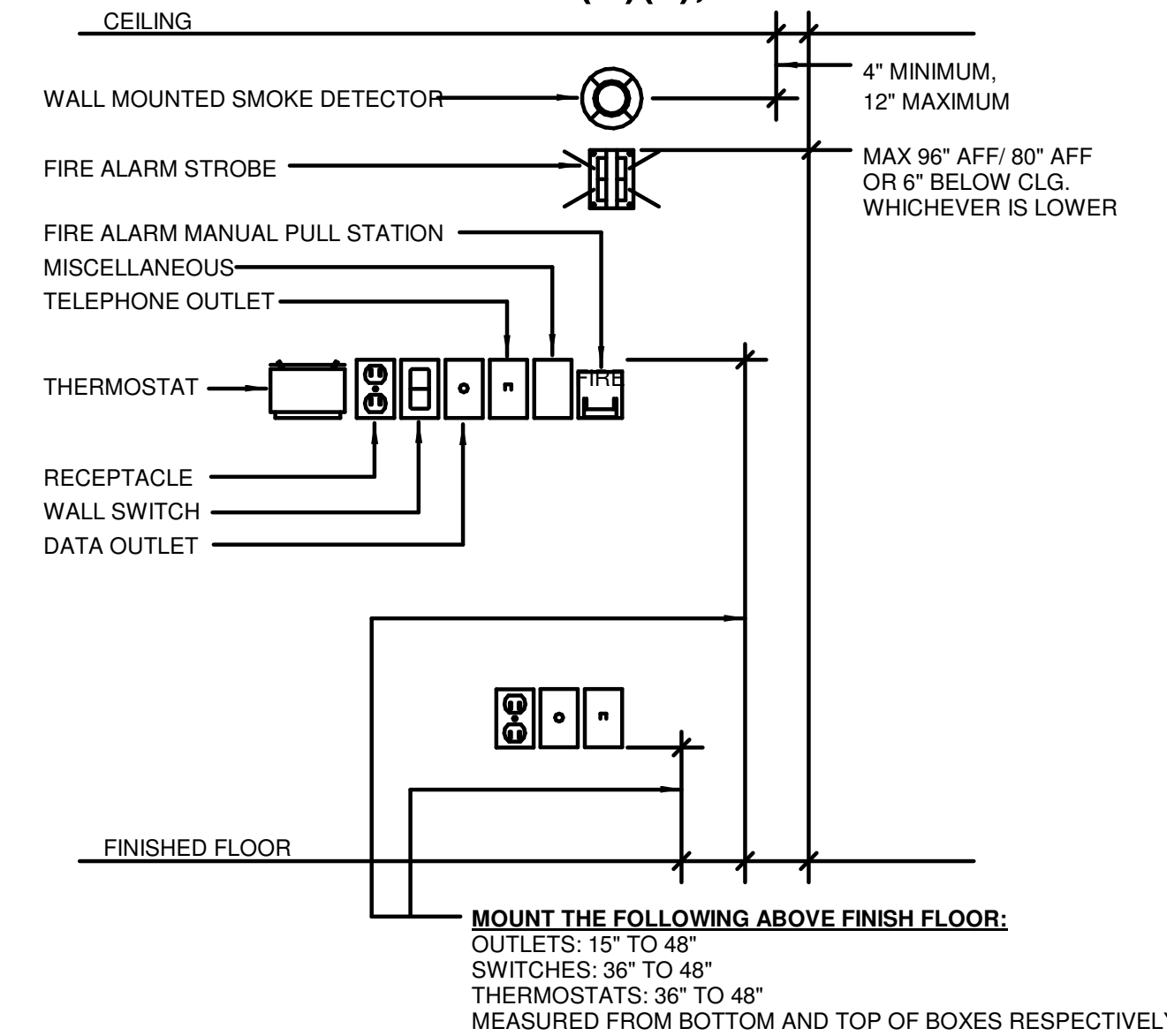
1. FOR THE SPACE SHOWN, PROVIDE A NEW, PERMANENT COMPLETE FIRE ALARM SYSTEM AND SEQUENCE OF OPERATION. COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS. REUSE ALL EXISTING DEVICES WHERE PRACTICAL AND PROVIDE NEW DEVICES MATCHING EXISTING DEVICES WHERE NECESSARY. COORDINATE DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS. SUBMIT SHOP DRAWINGS AND SEQUENCE OF OPERATIONS TO ENGINEER FOR REVIEW.

2. ALL 120V CIRCUITS REQUIRED FOR THE OPERATION OF THE FIRE ALARM SYSTEM SHALL BE INCLUDED. LOCATIONS OF ALL PANELS AND BOOSTERS SHALL BE COORDINATED WITH ARCHITECT. CONTRACTOR SHALL TEST THE SYSTEM IN THE PRESENCE OF LOCAL AUTHORITIES AND MAKE ALL REQUIRED MODIFICATIONS AND ADDITIONS TO THEIR DESIGN AT NO ADDITIONAL COST.

3. ALL WORK PERFORMED IN THE BUILDING SHALL COMPLY WITH BUILDING MANAGEMENT CONTRACTOR RULES AND REGULATIONS.

NOTE: GENERAL NOTES, LEGEND, DETAILS SHOWN AS APPLICABLE

PANEL CIRCUIT DIRECTORY TO COMPLY WITH SECTION 408.4, CEC W.P. COVER OF OUTLETS TO COMPLY WITH SECTION 406.8 (B)(1), CEC

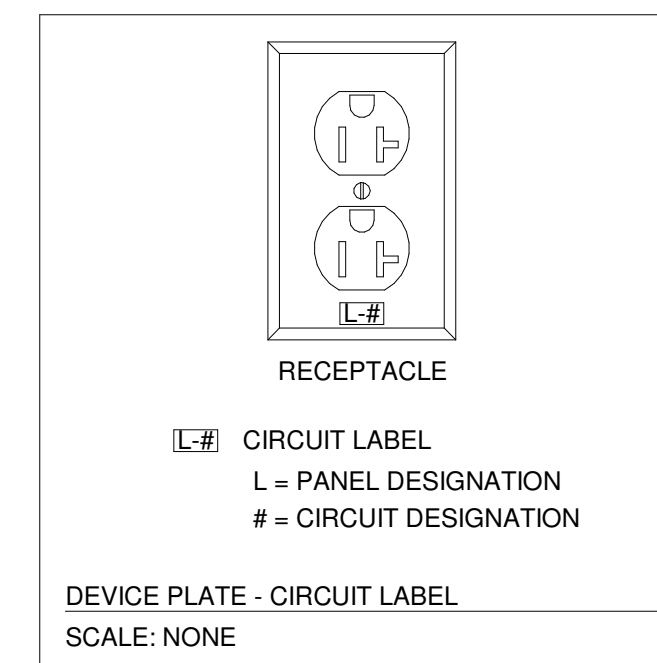


MOUNTING HEIGHT DETAIL

NO SCALE

NOTE: ALL DEVICES SHOWN MAY NOT BE USED. DETAIL INDICATES TYPICAL MOUNTING HEIGHTS ONLY. MOUNTING HEIGHTS SHOWN ON THE ARCHITECT DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE. VERIFY EXACT MOUNTING HEIGHT REQUIRED WITH ARCHITECT AND INSTALL ACCORDINGLY.

APPLICABLE CODES : LATEST EDITION OF CODES ADOPTED BY LOCAL AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO NFPA 72 NATIONAL FIRE ALARM CODE INTERNATIONAL BLDG CODE 2018



LEGEND NOTES:

THE WORD "PROVIDE" AS USED IN THESE DRAWINGS SHALL MEAN "MATERIALS AND LABOR FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR".

- MOUNTING HEIGHT OF ALL LIGHT SWITCHES, DIMMERS, RECEPTACLES, TELEPHONE, DATA AND SIGNAL OUTLETS SHALL BE IN ACCORDANCE WITH THE 'AMERICAN WITH DISABILITIES ACT', LIGHT SWITCHES, DIMMERS, ETC. (142)
 - RECEPTACLES, TELEPHONE, DATA, ETC. (118)
2. ALL MOUNTING HEIGHTS ARE MEASURED FROM FINISHED FLOOR TO CENTER OF DEVICE. MOUNTING HEIGHTS SHOWN ON THE ARCHITECT DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE. VERIFY EXACT MOUNTING HEIGHT REQUIRED WITH ARCHITECT AND INSTALL ACCORDINGLY.

ELECTRICAL LEGEND

ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED IN THIS PROJECT

- 2' x 4' LIGHT FIXTURE. LETTER INDICATES TYPE.
- 2' x 2' LIGHT FIXTURE. LETTER INDICATES TYPE.
- 2' X 4' LIGHT FIXTURE WITH 90 MINUTE, MIN. 1100 LUMENS BATTERY PACK (NOTE: SIMILAR FOR 1' x 4' AND 2' x 2' FIXTURES)
- EXIT LIGHT. PROVIDE DIRECTIONAL CHEVRON(S) ARROW(S) AS INDICATED ON PLANS. CONNECT TO UNSWITCHED CIRCUIT.
- SINGLE POLE SWITCH
- THREE(3) WAY SWITCH
- LIGHT CONTROL SWITCH, SUBSCRIPT DENOTES LIGHT AS CONTROLLED
- DIMMER CONTROL 3-WAY SWITCH
- MANUAL MOTOR STARTER WITH PROPER THERMAL ELEMENT INSTALLED.
- DUPLEX RECEPTACLE, 20AMP, 125VOLT, 2POLE, 3WIRE, GROUNDING TYPE, NEMA 5-20R (CM=CEILING MOUNT)
- GROUND FAULT INTERRUPTOR (GFI) DUPLEX RECEPTACLE. SIMILAR TO DUPLEX RECEPTACLE ABOVE. RECEPTACLE SHALL BE FULLY COMPLIANT TO THE LATEST UL 943 STANDARD. RECEPTACLE SHALL BE PROVIDED WITH AUTO-MONITORING (SELF-TEST) FUNCTION AND STATUS INDICATOR LIGHT (LEVITON SMART LOCK PRO OR EQUAL).
- WEATHERPROOF (WP) DUPLEX RECEPTACLE. SIMILAR TO DUPLEX RECEPTACLE ABOVE.
- DOUBLE (QUAD) DUPLEX RECEPTACLE WITH COMMON COVER PLATE. SIMILAR TO DUPLEX RECEPTACLE.
- DUPLEX GROUNDING TYPE CONTROLLED RECEPTACLE, 20 AMP, 125VOLT, 2 POLE, 3 WIRE. RECEPTACLE SHALL HAVE PERMANENT IDENTIFICATION
- SPECIAL OUTLET MOUNTED FLUSH IN WALL BOX LETTER INDICATES TYPE
 - A - NEMATYPE
 - B -
 - C -
- TELEPHONE OUTLET. PROVIDE BACK BOX/COVER PLATE. INSTALL 3/4"C. WITH BUSHING AND PULL STRING, STUBBED TO ACCESSIBLE CEILING.
- DATA OUTLET. PROVIDE BACK BOX/COVER PLATE. INSTALL 3/4"C. WITH BUSHING AND PULL STRING, STUBBED TO ACCESSIBLE CEILING.
- COMBINATION TELEPHONE/DATA OUTLET. PROVIDE BACK BOX/COVER PLATE. INSTALL 3/4"C. WITH BUSHING AND PULL STRING, STUBBED TO ABOVE ACCESSIBLE CEILING.
- JUNCTION BOX. (CM=CEILING MOUNT)
- ELECTRICAL PANEL BOARDS.
- DISCONNECT SWITCH. ALL SWITCHES SHALL BE HEAVY DUTY TYPE (E.G. 30A/3P/600/NF/NEMA 1 OR NEMA 3R FOR OUTDOORS)
- CONDUIT RUN CONCEALED IN WALL OR CEILING
- CONDUIT RUN CONCEALED IN FLOOR
- HOMERUN TO ELECTRICAL PANELBOARDS
- CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 CURRENT CARRYING CONDUCTORS CONTAINED THEREIN. TWO #12 AND MINIMUM OF ONE #12 GROUND WIRE ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF #12. ALL CONDUITS SHALL CONTAIN ONE GROUND WIRE SIZED PER C.E.C. TABLE 250.122. BUT NOT SMALLER THAN #12. WHERE ISOLATED GROUND RECEPTACLES ARE INDICATED, PROVIDE ADDITIONAL #12 GROUND WIRE IN CONDUIT RUNS, CONNECTED FROM ISOLATED GROUND BUS IN PANEL.



DRAWN BY: PROJECT #:

NUMBER	DESCRIPTION	DATE

SABOR PIRI PIRI TENANT IMPROVEMENT

800 B AVE. SUITE 804
NATIONAL CITY CA 91950

PROJECT:

DRAWINGS PREPARED BY:

TITLE: LEGEND AND NOTES

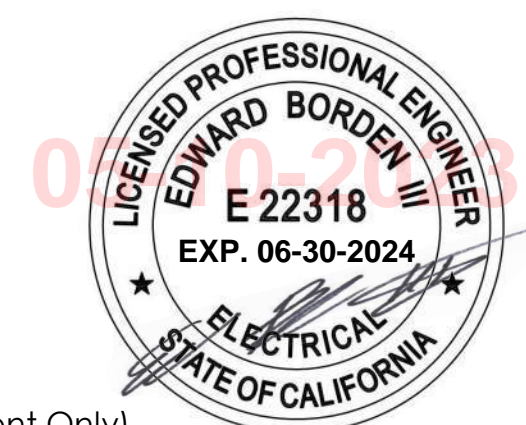
SHEET:

E0.2



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DRAWN BY: PROJECT #

Table with 3 columns: NUMBER, DESCRIPTION, DATE

PROJECT: SABOR PIRI PIRI TENANT IMPROVEMENT 800 B AVE, SUITE 804 NATIONAL CITY CA 91950

DRAWINGS PREPARED BY:

TITLE: COMPLIANCE CERTIFICATION

SHEET: E4.2

STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 04/21) CERTIFICATE OF COMPLIANCE

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards April 2021

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MECHANICAL ELECTRICAL PLUMBING ENERGY CONSULTANTS



HVAC GENERAL NOTES

- 1. CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BID. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES...
2. CONTRACTOR SHALL VERIFY ALL EQUIPMENT MODEL NUMBERS, CAPACITIES, SIZES, VOLTAGES, AND ALL OTHER SCHEDULED INFORMATION WITH ALL OTHER APPLICABLE TRADES AND WITH THE MANUFACTURER PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL VERIFY ALL LOCATIONS, SIZES, P.O.C.'s, AND AVAILABILITY OF ALL EXISTING ITEMS...
4. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL NECESSARY OFFSETS OF DUCTWORK AND PIPING...
5. NEW AND/OR EXISTING EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EQUIPMENT LOCATIONS, P.O.C.'s AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION.
6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN IN THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATION OF CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO THE MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS.
7. ALL HVAC EQUIPMENT, MATERIAL, AND ALL CONNECTION THERETO SHALL BE INSTALLED COMPLETE PER MANUFACTURER'S INSTRUCTIONS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
8. DUCT SIZES INDICATED ON DRAWINGS ARE INSIDE NET CLEARANCE DIMENSIONS.
9. CONTRACTOR MAY, AT HIS OPTION, WITH PRIOR APPROVAL FROM ENGINEER REVISE DUCTWORK SIZING AND ROUTING TO ALLOW FOR INSTALLATION IN THE AVAILABLE SPACE. DUCTWORK THAT IS RESIZED MUST MAINTAIN THE SAME CROSS-SECTIONAL AREA.
10. ALL NEW SUPPLY, RETURN, AND EXHAUST (AIR DISTRIBUTION) GRILLES, REGISTERS, AND DIFFUSERS SHALL MATCH (IF APPLICABLE) EXISTING, AND BE APPROVED BY ARCHITECT. THE MAXIMUM NOISE NC LEVEL SHALL BE 25.
11. ALL SUPPLY, RETURN, AND EXHAUST REGISTER CONNECTIONS TO DUCTWORK SHALL BE PROVIDED WITH ACCESSIBLE MANUAL VOLUME DAMPERS. ALTERNATIVELY, ACCESSIBLE MANUAL VOLUME DAMPERS MAY BE PROVIDED IN DUCT WORK FEEDER LINES SERVING INDIVIDUAL REGISTERS. PROVIDE ACCESS DOOR AND PANEL AS REQUIRED.
12. SUBSTITUTION OF HVAC EQUIPMENT WITH EFFICIENCIES LOWER THAN THOSE INDICATED ON THE PLANS IS NOT PERMITTED.
13. IF THE CONTRACTOR'S USE OF SUBSTITUTE MATERIALS, EQUIPMENT, OR METHODS OF INSTALLATION REQUIRES ANY CHANGES IN OTHER TRADES' WORK FROM THAT SHOWN ON THE DRAWINGS, THE EXTRA COST OF THE OTHER TRADES WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INITIATING THE SUBSTITUTION.
14. SUBMITTALS: APPROVAL OF SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.
15. WHERE NONMETALLIC PIPING PENETRATES AREA SEPARATION WALLS, THE PIPE SECTION PASSING THROUGH THE WALLS AND THE FIXTURE CONNECTIONS THERETO SHALL BE OF METAL ONLY.
16. NO RANGE HOODS, DRYER VENTS, COMBUSTION VENTS, OR HEATING DUCTS ARE PERMITTED IN AREA SEPARATION WALLS.
A. CONTRACTOR TO VERIFY LOCATION OF FIRE AND FIRE/SMOKE BARRIER WALLS WITH ARCHITECT PRIOR TO FIRE AND/OR SMOKE DAMPER, DETECTOR AND ACTUATOR INSTALLATION.
B. ALL CEILING FIRE DAMPERS TO BE ONE (1) HOUR U.L. AND C.S.F.M. APPROVED.
C. ALL ONE HOUR WALL SHALL BE APPROVED WITH ONE HOUR FIRE DAMPERS BOTH U.L. AND C.S.F.M. APPROVED.
D. ALL TWO HOUR WALLS SHALL BE APPROVED WITH TWO HOUR FIRE DAMPERS BOTH U.L. AND C.S.F.M. APPROVED.
E. ALL SMOKE BARRIER WALLS SHALL BE PROVIDED WITH U.L. AND C.S.F.M. APPROVED SMOKE/FIRE DAMPERS (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.
F. ALL PENETRATIONS OF ONE (1) HOUR CORRIDOR WALLS AND CEILINGS THAT WOULD REQUIRE THE INSTALLATION OF A FIRE DAMPER SHALL BE APPROVED WITH A U.L. AND C.S.F.M. APPROVED COMBINATION SMOKE/FIRE DAMPER, (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.
G. PROVIDE ALL FIRE & SMOKE DAMPERS WITH ACCESS DOORS AS NECESSARY.
17. PROVIDE BALANCING DAMPERS ON ALL OUTSIDE AIR, EXHAUST AIR, SUPPLY AIR AND RETURN AIR SYSTEMS THROUGH OUT. DAMPERS ARE NOT INDICATED ON PLANS BUT ARE REQUIRED AT ALL BRANCH TAKE-OFFS.
18. PROVIDE TURNING VANES ON ALL 90 DEGREE SQUARE ELBOWS.
19. PROVIDE FLEXIBLE DUCT CONNECTIONS WITH MINIMUM 1" GAP ON THE SUPPLY AND RETURN DUCT CONNECTIONS ON ALL FANS.
20. ALL SUPPLY AND RETURN DUCTWORK FROM AC UNITS AND FANS SHALL BE LINED WITH 1" ACOUSTIC INSTALLATION TO MINIMUM 15 FEET FROM THE FAN UNLESS NOTED TO BE LONGER. PROVIDE PERFORATED LINING. DUCT SIZE SHALL BE INCREASED TO PROVIDE THE CLEAR INSIDE DIMENSIONS AS NOTED ON PLANS.
21. VERIFY MECHANICAL EQUIPMENT LOCATION & DUCT ROUTING WITH ENGINEERING PRIOR TO CONSTRUCTION.
22. FACTORY-MADE FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE.

CALIFORNIA GREEN BUILDING STANDARDS CODE 2022

- 1. ALL HVAC DUCTS ARE REQUIRED TO BE SEALED WITH MASTIC AND SHALL BE TESTED. CONCEALED DUCT SHALL BE INSULATED WITH MIN R-8 DUCT INSULATION.
2. AT THE TIME OF ROUGH INSTALLATION OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL START-UP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCTS AND OTHER RELATED AIR DISTRIBUTION COMPONENT EQUIPMENT SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM. CGBC 5.504.3
3. BASED ON THESE PLANS, THE MECHANICAL/BALANCING CONTRACTOR SHALL PROVIDE A TESTING AND ADJUSTING PLAN AND SHALL FOLLOW IT AS PER CALIFORNIA GREEN BUILDING STANDARDS CODE. SECTION 5.410.4.
4. IN MECHANICAL VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR OCCUPANCY THAT PROVIDES AT LEAST A MERV 8. CGBC 5.504.5.3
5. BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF CALIFORNIA BUILDING CODE, CCR, TITLE 24, PART 2, SECTIONS 1203 (VENTILATION) AND CHAPTER 14 (EXTERIOR WALLS). FOR ADDITIONAL MEASURES NOT APPLICABLE TO LOW-RISE RESIDENTIAL OCCUPANCIES, SEE SECTION 5.407.2 OF THIS CODE. CGBC 5.505.1
6. FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF SECTION 120.1 (REQUIREMENTS FOR VENTILATION) OF THE 2022 CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8. CGBC 5.506.1
7. FOR BUILDINGS OR ADDITIONS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2022 CALIFORNIA ENERGY CODE, SECTION 120(C)(4). CGBC 5.506.2
8. TESTING AND ADJUSTING SYSTEMS SHALL BE REQUIRED FOR BUILDING LESS THAN 10,000 SQFT. CGBC 5.410.4.
9. DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE, AS APPLICABLE TO THE PROJECT, THE SYSTEMS LISTED IN SECTION 5.410.4.2.
10. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH APPLICABLE STANDARDS ON EACH SYSTEM AS DETERMINED BY THE ENFORCING AGENCY. 5.410.4.3. BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING IS OPERATED FOR NORMAL USE, BALANCE IN ACCORDANCE WITH THE PROCEDURES DEFINED BY NATIONAL STANDARDS LISTED IN SECTION 5.410.4.3.1. OR AS APPROVED BY THE ENFORCING AGENCY.
11. AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR OPERATING THESE SERVICES.
12. PROVIDE THE BUILDING OWNER WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF WARRANTIES FOR EACH SYSTEM PRIOR TO FINAL INSPECTION. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.
13. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MERV OF 8, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30% BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY. APPLIES TO ADDITIONS OR ALTERATIONS.
14. INSTALL HVAC AND REFRIGERATION EQUIPMENT THAT DOES NOT CONTAIN CFCs. CGBC 5.508.1.1.
15. INSTALL FIRE SUPPRESSION EQUIPMENT THAT DOES NOT CONTAIN HALONS. CGBC 5.508.1.2.
16. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANT, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE, OR SCQMMD RULE 1168 VOC LIMITS, AS SHOWN IN CALGREEN TABLES 5.504.4.2. SUCH PRODUCTS SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS AS SPECIFIED BELOW, AEROSOL ADHESIVES; AND SMALLER UNIT SIZES OF ADHESIVES; AND SEALANT OR CAULKING COMPOUNDS IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN ONE POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.

DUCT TESTING AND INSULATION

- 1. ALL DUCTWORK SHALL BE SEALED AND PRESSURE TESTED FOR LEAKS PER SMACNA REQUIREMENTS IN THE "HVAC AIR DUCT LEAKAGE TEST MANUAL" AND THE CALIFORNIA GREEN BUILDING 2022 STANDARDS.
2. INSULATE ALL DUCTWORK AND PIPES PER THE 2022 CALIFORNIA MECHANICAL CODE AND TITLE 24 REQUIREMENT. ALL DUCTWORK SHALL BE INSULATED WITH WOOL FIBER OR FIBERGLASS INSULATION WITH FSK VAPOR BARRIER. ALL PIPES (INCLUDING CONDENSATE PIPING) SHALL BE INSULATED WITH EARTHWOOL FIBERGLASS PIPE INSULATION WITH ASJ+SSL FACING. REFRIGERANT PIPING SHALL BE INSULATED WITH CLOSED CELL INSULATION. ALL DUCTS AND PIPES EXPOSED TO WEATHER (DUCTWORK IN CRAWL SPACES ARE CLASSIFIED AS DUCTWORK EXPOSED TO WEATHER), INCLUDING REFRIGERANT PIPING, SHALL BE PROVIDED WITH ALUMINUM OR SS JACKET INSTALLED PER MANUFACTURER'S PRINTED INSTALLATION MANUAL.
3. FOR PROJECTS WITH EXISTING DUCTS, PERFORM DUCT CLEANING PER THE "NATIONAL DUCT CLEANERS ASSOCIATION", CLEAN EXISTING DIFFUSERS, GRILLES AND REGISTERS WITHOUT DAMAGING PAINT OR COATING. IF THE DAMAGE IS EXISTING, INFORM ARCHITECT AND TAKE PHOTOS BEFORE PERFORMING CLEANING PROCEDURE.

SPECIAL HANGING REQUIREMENTS

- 1. FOR ALL ITEMS AND EQUIPMENT BEING SUPPORTED FROM ROOF DECK, SUBMIT COORDINATION DRAWINGS CLEARLY SHOWING DETAILS OF FIELD CONNECTIONS, ANCHORAGE, AND THE RELATIONSHIP TO THE WORK OF OTHERS.
2. MECHANICAL CONTRACTOR TO PROVIDE HANGER SUPPORTS AND SEISMIC BRACING AS NEEDED PER LATEST SMACNA SEISMIC RESTRAINT MANUAL. SUBMIT SHOP DRAWING AND HANGER DATA SHEET FOR APPROVAL.

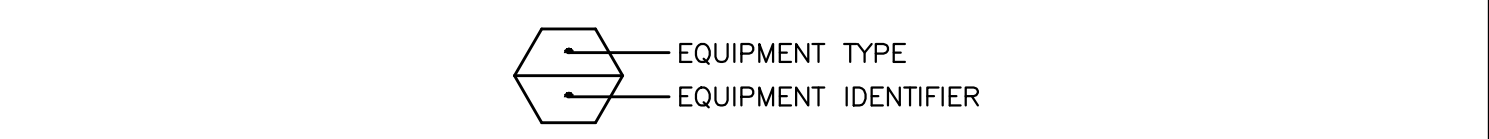
MECHANICAL SPECIFICATIONS

- 1. GENERAL PROVISIONS - THE GENERAL CONDITIONS, SUPPLEMENTS AND AMENDMENTS SHALL GOVERN THIS DIVISION OF THE SPECIFICATIONS.
2. PROJECT REQUIREMENTS - PROVIDE ALL ITEMS, MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THE WORK OR OPERATIONS MENTIONED HEREIN, OR INDICATED ON THE DRAWINGS AND REASONABLY INFERRED THEREIN, AS REQUIRED TO MAKE A COMPLETE AND WORKING SYSTEM.
3. INTENT - WORK SHALL BE DONE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AND THEIR INTENT, COMPLETE WITH ALL NECESSARY COMPONENTS, INCLUDING THOSE NOT NORMALLY SHOWN OR CALLED FOR, AND SHALL BE READY FOR OPERATION BEFORE ACCEPTANCE.
ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN IN THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATION OR CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO MANUFACTURERS INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE INSTALLATION AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORMS TO MANUFACTURERS INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
ANY REFERENCE TO THE DESIGN AUTHORITY SHALL MEAN MR ENGINEERING, INC.
THE WORK "PROVIDE" SHALL MEAN "SUPPLY AND INSTALL" UNLESS OTHERWISE INDICATED.
4. GOVERNING REGULATIONS - THE WORK UNDER MECHANICAL SCOPE OF WORK, SHALL CONFORM, BUT NOT LIMITED TO THE REQUIREMENTS OF THE FOLLOWING CODES, REGULATIONS AND STANDARDS:
- 2022 EDITIONS OF THE CALIFORNIA BUILDING CODE, INCLUDING BUT NOT LIMITED TO THE MECHANICAL, PLUMBING, FIRE AND ENERGY CODES.
- SMACNA PUBLICATIONS, INCLUDING BUT NOT LIMITED TO, HVAC DUCT CONSTRUCTION STANDARDS AND GUIDELINES FOR SEISMIC RESTRAINT OF MECHANICAL SYSTEMS.
- ABC OR NEBB REGULATIONS GOVERNING TESTING AND BALANCING AND COMMISSIONING OF SYSTEMS.
- OSHA REGULATIONS.
5. PERMITS - OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES THEREFORE AND COMPLY WITH ALL LOCAL AND STATE REGULATIONS, CODES AND BY-LAWS APPLICABLE TO THE WORK.
6. RESPONSIBILITY - VISIT THE SITE BEFORE SUBMITTING A BID AND EXAMINE ALL LOCAL AND EXISTING CONDITIONS ON WHICH THE WORK IS DEPENDENT.
NO CONSIDERATION WILL BE GRANTED FOR ANY MISUNDERSTANDING OF WORK TO BE DONE RESULTING FROM FAILURE TO VISIT THE SITE.
WHEN THE CONTRACT DOCUMENTS DO NOT CONTAIN SUFFICIENT INFORMATION FOR THE PROPER SELECTION OF EQUIPMENT FOR BIDDING, NOTIFY THE DESIGN AUTHORITY DURING THE BIDDING PERIOD. IF CLARIFICATION CANNOT BE OBTAINED, ALLOW FOR THE MOST EXPENSIVE ARRANGEMENT. FAILURE TO DO THIS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO SUPPLY THE INTENDED EQUIPMENT AND OR INSTALLATION.
CHECK DRAWINGS OF ALL TRADES AND SITE SURVEY TO VERIFY SPACE AVAILABILITY FOR THE INSTALLATION. COORDINATE WORK WITH ALL TRADES AND MAKE CHANGES TO FACILITATE SATISFACTORY INSTALLATION. MAKE NO DEVIATIONS TO THE DESIGN INTENT INVOLVING EXTRA COST TO THE OWNER WITHOUT DESIGN AUTHORITY WRITTEN APPROVAL.
7. WORKMANSHIP - WORKMANSHIP SHALL BE IN ACCORDANCE WITH WELL ESTABLISHED PRACTICE AND STANDARDS ACCEPTED AND RECOGNIZED BY DESIGN AUTHORITY AND THE TRADE.
EMPLOY ONLY TRADESMEN HOLDING VALID TRADE QUALIFICATION CERTIFICATES. TRADESMEN SHALL PERFORM ONLY WORK THAT THEIR CERTIFICATE PERMITS.
8. DRAWING AND MEASUREMENTS - DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO INDICATE THE SCOPE AND GENERAL ARRANGEMENT OF WORK. DO NOT SCALE DRAWINGS.
TAKE FIELD MEASUREMENTS WHERE EQUIPMENT AND MATERIAL DIMENSIONS ARE DEPENDENT UPON BUILDING DIMENSIONS.
9. SUBMITTALS - SUBMIT THREE SETS OF ALL EQUIPMENT AND RELATED MATERIAL FOR APPROVAL PRIOR TO ORDERING. AFTER 10 DAYS FROM CONTRACT AWARD, SUBMIT DUCT SHOP DRAWINGS TO ARCHITECT FOR ENGINEERS REVIEW.
10. RECORD DRAWINGS - MAINTAIN ONE CONTRACT DRAWING, WHITE PRINT, ON SITE, SOLELY FOR THE PURPOSE OF RECORDING, IN RED, ANY CHANGES AND/OR DEVIATION FROM THE CONTRACT DRAWINGS AS IT OCCURS.
AT THE COMPLETION OF THE PROJECT, CERTIFY THE ABOVE-MENTIONED DRAWINGS AS BEING ACCURATE AND COMPLETE BY LABELLING IN THE LOWER RIGHT HAND CORNER IN LETTERS OF AT LEAST 1/2 INCH HIGH AS FOLLOWS: "AS-BUILT DRAWINGS. DATED ---", DELIVER TO DESIGN AUTHORITY.
11. OPERATING AND MAINTENANCE MANUALS - PREPARE INSTRUCTION MANUALS WHICH INCLUDE EQUIPMENT MANUFACTURER'S OPERATING AND MAINTENANCE BULLETINS, AND A REPORT ON THE TESTING AND BALANCING. SUBMIT THREE (3) COPIES TO DESIGN AUTHORITY.
12. SERVICES - PROTECT ALL SERVICES AND MAKE GOOD ANY DAMAGE CAUSED BY THE WORK IN THIS CONTRACT.
THE PLANS SHOW APPROXIMATE LOCATIONS OF DUCTWORK, PIPING AND EQUIPMENT BASED UPON EXISTING RECORD DRAWINGS. BE PREPARED TO ACCOMMODATE CHANGES IN LOCATION AS MAY BE FOUND ON SITE.
13. DUCTWORK CLEANING - ALL NEW DUCTWORK SHALL BE WIPED CLEAN OF ALL OIL AND OTHER SURFACE FILMS WITH SUITABLE SOLVENT PRIOR TO INSTALLATION.
ALL SUPPLY AND RETURN DUCTWORK SHALL BE THOROUGHLY CLEANED BY A PROFESSIONAL DUCT CLEANING AGENCY PRIOR TO REUSE.
14. CLEAN UP - MAKE GOOD AND CLEAN ALL AREAS DISRUPTED BY THIS WORK.
15. BALANCING - AIR SYSTEMS - BALANCING SHALL BE DONE BY AN ABC OR NEBB CERTIFIED FIRM. ADJUST AIR HANDLING EQUIPMENT AND ASSOCIATED BALANCE DAMPERS ON SUPPLY, RETURN AND EXHAUST SYSTEMS TO WITHIN PLUS OR MINUS 10% OF THE SPECIFIED AIR QUANTITIES. MAINTAIN THE DESIGN PRESSURE RELATIONSHIPS.
ADJUST DIFFUSERS, REGISTERS AND GRILLES TO OBTAIN OPTIMUM AIR DISTRIBUTION PATTERN.
MEASURE OUTSIDE AIR QUANTITIES AND CONFIRM THAT THE SPECIFIED OUTSIDE AIR QUANTITIES PER TITLE-24 CALCULATIONS HAVE BEEN PROVIDED THROUGHOUT.
PERMANENTLY MARK THE FINAL BALANCE POSITION ON ALL BALANCE DAMPERS AND ADJUSTABLE TURNING DEVICES.
SUBMIT A REPORT TO THE DESIGN AUTHORITY INDICATING FINAL AIR QUANTITIES OBTAINED.
16. EQUIPMENT START UP AND COMMISSIONING
CHECK AND ADJUST REFRIGERANT CHARGE AS REQUIRED FOR PROPER OPERATION.
BALANCE AC UNITS TO PROVIDE SPECIFIED AIR FLOWS.
PROVIDE ALL AC UNITS WITH NEW MERV 13 FILTERS. FILTER.
TEST ALL EQUIPMENT.
17. DUCTWORK
TO ASSURE THAT ALL FUNCTIONS AND PERFORMANCE ARE AS INDICATED ON THE MANUFACTURER'S RATINGS, ALL EQUIPMENT SHALL BE BALANCED AND TESTED TO PROVIDE THE OWNER WITH FUNCTIONING SYSTEMS. THE HVAC SYSTEMS SHALL HAVE A MINIMUM OF ONE YEAR WARRANTY ON ALL PARTS AND LABOR OR LONGER AS AGREED BETWEEN OWNER AND CONTRACTOR.

MECHANICAL LEGEND

Table with columns: SYMBOL, ABBREV, DESCRIPTION, ABBREV, DESCRIPTION. Includes symbols for POC, POD, EQPT, KW, LBS, MAX, MECH, MFR, MIN, MTD, (N), NOS, OBD, OSA, HP, HR, QTY, RA, RG, RAD, RR, SA, SAD, SR, SF, FSD, SS, TEMP, TYP, TA, T/A, T/B, TR, EA, EAD, EAR, EF, HVAC, W/, WC, WPD, WT, MUA, and REFRIGERANT LINE.

EQUIPMENT IDENTIFICATION SYMBOL



SCOPE OF WORK

- 1. PROVIDE NEW FAN COIL UNIT WITH HEAT PUMP.
2. PROVIDE NEW TYPE I KITCHEN EXHAUST HOOD.
3. PROVIDE NEW SUPPLY FAN FOR VENTILATION.

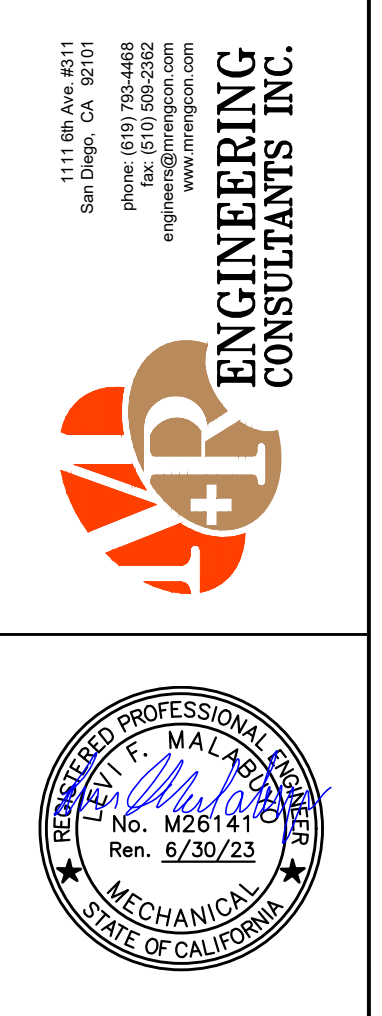
DRAWING INDEX

Table with columns: M.O. NUMBER, DESCRIPTION. Lists items from M0.1 (MECHANICAL SPECIFICATIONS, LEGEND AND GENERAL NOTES) to M0.8 (MECHANICAL HOOD DETAILS).

Table with columns: REV, DESCRIPTION, DATE. Includes revision 1 with description 'PC COMMENTS' and date '07-19-23'.

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TITLE:
MECHANICAL SPECIFICATIONS LEGEND AND GENERAL NOTES

Table with columns: JOB NO, DRAWN, CHECKED, SCALE, DATE. Values: JOB NO:B2306-AA123, DRAWN: CL, CHECKED: CZ, SCALE: NONE, DATE: 06.21.2023

M0.1

FAN COIL UNIT SCHEDULE

MARK	MANUFACTURER & MODEL	SERVICE	SUPPLY AIR (CFM)	E.S.P. (IN. WG.)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	ELECTRICAL DATA					UNIT DIMENSIONS WIDTH X HEIGHT X DEPTH	UNIT WEIGHT (LBS.)	SOUND LEVEL dB(A)	QTY.	REMARKS
							MCA	MOCP	VOLT	PH	HZ					
FCU 1	LG LMN249HVT	AS SHOWN	600	-	24.0	25.6	0.4	15	208-230	1	60	39-9/32" x 6-1/16" x 13-19/32"	25.6	46	2	1, 2, 3, 4

1. NEW FAN COIL UNIT.
 2. PROVIDE WITH CONDENSATE PUMP, AND DISCONNECT SWITCH.
 3. PROVIDE WITH PROGRAMMABLE T24 APPROVED TSATS. COORDINATE FINAL LOCATION W/ OWNER REPRESENTATIVE.
 4. INSTALL PER MANUFACTURER'S RECOMMENDATION.

DUCT MATERIAL SCHEDULE

(FOR LOW PRESSURE DUCTWORKS W/S.P. LESS THAN 2" W.G., LESS THAN 2000 FPM)

RECTANGULAR
 DIMENSION: 4"-18" 19"-30" 31"-54" 55"-84"
 GAUGE: 26 ga. 24 ga. 22 ga. 20 ga.

ROUND
 DIMENSION: 3"-14" 15"-23" 24"-37" 37"-50"
 GAUGE: 26 ga. 24 ga. 22 ga. 20 ga.

DUCT CONSTRUCTION SHALL COMPLY WITH CMC 2019, SMACNA METAL AND FLEXIBLE DUCT CONSTRUCTION STANDARD AND UL 181, WHICHEVER IS THE MOST STRINGENT SHALL PREVAIL.

OUTDOOR UNIT SCHEDULE

MARK	MANUFACTURER & MODEL	SERVICE	ELECTRICAL DATA			SEER	HSPF	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	UNIT DIMENSIONS WIDTH X HEIGHT X DEPTH	TOTAL STD UNIT WT. (LBS.)	SOUND LEVEL dB(A)	REMARKS
			V. / PH. / HZ.	MOCP	MCA								
HP 1	LG LMU481HV	FCU 1, FCU 2	208-230/1/60	40	32.7	20.8	9.5	48.0	54.0	37-13/32" x 54-11/32" x 13"	192	55	1, 2, 3, 4

1. PROVIDE WITH REFRIGERANT PIPE HEADER KIT AND REFRIGERANT R410A.
 2. COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80°F/67°F, OUTDOOR AIR OF 95°F.
 3. HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F, OUTDOOR AIR OF 47°F.
 4. INSTALL PER MANUFACTURER'S RECOMMENDATION.

HEATING AND COOLING DUCT SYSTEM

AIRFLOW CFM	SUPPLY OR RETURN MAIN DUCT SIZE		TABLE A
	RD	OR	
200	8" RD	OR	6" X 8"
300	9" RD	OR	8" X 8"
400	10" RD	OR	10" X 8"
500	11" RD	OR	14" X 8" 10" X 10"
600	12" RD	OR	16" X 8" 12" X 10"
700	13" RD	OR	18" X 8" 14" X 10" 12" X 12"
800	14" RD	OR	22" X 8" 16" X 10" 14" X 12"
1000	16" RD	OR	28" X 8" 20" X 10" 16" X 12"
1200	17" RD	OR	32" X 8" 24" X 10" 20" X 12"
1400	18" RD	OR	28" X 10" 24" X 12"
1600	20" RD	OR	32" X 10" 28" X 12"
1800	21" RD	OR	30" X 12"
2000	22" RD	OR	34" X 12"

AIRFLOW CFM	SUPPLY BRANCH DUCT SIZE		TABLE B
	RD	OR	
80	5" RD		
120	6" RD	OR	3-1/2" X 10"
160	7" RD		

EXHAUST HOOD SCHEDULE

MARK	MANUF. & MODEL	SERVICE	EXHAUST (CFM)	MAKE-UP AIR (CFM)	EXHAUST DUCT SIZE	EXHAUST S.P.	DIMENSIONS			OPER. WT. (LBS.)	REMARKS
							WIDTH	DEPTH	HEIGHT		
H 1	CAPTIVEAIRE 5424 ND-2-PSP-F	KITCHEN	1725	-	14"ø	-0.711"	104"	54"	30"	801	1

1. INSTALL PER MANUFACTURER'S INSTRUCTION.

AIR DISTRIBUTION SCHEDULE

MARK	MANUFACTURER & MODEL OR EQUAL	SERVICE	TYPE	FINISH	MODULE SIZE	NECK SIZE	REMARKS
CD-1	TITUS 350R OR APPROVED EQUAL	SUPPLY	CEILING	WHITE	24"x24"	24"x24"	1
FAG-1	RUSKIN ELF6375DXH OR APPROVED EQUAL	FRESH AIR	WALL	WHITE	36"x24"	-	1

1. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

KITCHEN EXHAUST FAN SCHEDULE

MARK	MANUF. & MODEL	LOCATION	SERVICE	CFM	ESP (IN.)	FAN (RPM)	SONES	ELECTRICAL		OPER. WT. (LBS.)	REMARKS
								V. / PH. / HZ.	HP		
KEF 1	CAPTIVEAIRE DU180HFA	ROOF	KITCHEN HOOD	1725	1.0	966	9.5	208/3/60	1.0	153	1, 2, 3, 4

1. INSTALL AS PER MANUFACTURER'S INSTRUCTION.
 2. FAN TO OPERATE ON A WALL MOUNT SWITCH.
 3. PROVIDE WITH DISCONNECT SWITCH AND PREMIUM EFFICIENCY MOTOR.
 4. FAN SHALL MEET NFPA 96 STANDARDS FOR GREASE DUCT. PROVIDE VENTILATED ROOF CURB AND GREASE CUP.

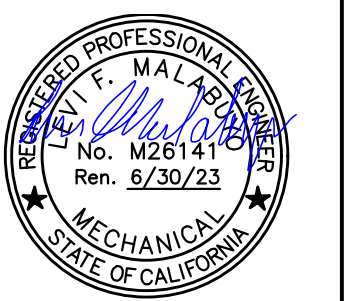
SUPPLY FAN SCHEDULE

MARK	MANUF. & MODEL	LOCATION	SERVICE	CFM	ESP (IN.)	SONES	ELECTRICAL		OPER. WT. (LBS.)	QTY.	REMARKS
							V. / PH. / HZ.	POWER			
SF 1	GREENHECK CSP-A3300-VG OR APPROVED EQUAL	CEILING	AS SHOWN	1728	0.8	4.3	115/1/60	422 WATTS	122	1	1, 2, 4, 5

1. PROVIDE WITH CEILING GRILLE VIBRATION ISOLATOR KIT, FAN TERMINATION CAP WITH BIRD SCREEN AND BACK DRAFT DAMPER.
 2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
 3. NOT USED
 4. INTERLOCK TO OPERATE WHEN HOOD (H-1) IS IN OPERATION.
 5. PROVIDE WITH MERV 13 FILTER.

REV	DESCRIPTION	DATE
Δ	PC COMMENTS	07-19-23

SABOR PIRI PIRI
TENANT IMPROVEMENT
 800 B AVENUE SUITE 804
 NATIONAL CITY CA 91950



TITLE:
MECHANICAL SCHEDULES

JOB NO: B2306-AA123
 DRAWN: CL
 CHECKED: CZ
 SCALE: NONE
 DATE: 06.21.2023

M0.2

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Mechanical Systems
CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 1 of 9)
Date Prepared: 2023-07-19T17:41:02-04:00
A. GENERAL INFORMATION
01 Project Location (city): NATIONAL CITY 04 Total Conditioned Floor Area: 450
02 Climate Zone: 7 05 Total Unconditioned Floor Area: 0
03 Occupancy Types Within Project: 06 # of Stories (Habitable Above Grade): 1
B. PROJECT SCOPE
This table is used to demonstrate compliance for 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.
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0723-0004

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Mechanical Systems
CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 2 of 9)
Date Prepared: 2023-07-19T17:41:02-04:00
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.
System Summary: 110.1, 110.2, 140.4, 170.2(c) AND Pumps 140.4(f), 170.2(c)(4) 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(f), 160.2, 160.3 AND Cooling Towers 110.2(e)(2) AND Compliance Results: COMPLIES with Exceptional Conditions
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.
F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
Space Conditioning System Information
System Name: HP-1 Quantity: 1 System Serving: Multi-zone System Status: Utilizing Recovered Heat
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0723-0004

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Mechanical Systems
CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 3 of 9)
Date Prepared: 2023-07-19T17:41:02-04:00
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)
Table with columns 01-11 for equipment sizing and efficiency.
HP-1: Unitary Heat Pumps, Air-cooled, pkg (1phase), Smallest Size Available: 140.4(a) and 170.2(c)(1), Heating Output: 54,000, Rated: 47,600, Supp. Heating Output: 0, Sensible Per Design: 48,000, Rated: 48,000, Total Heating Load: 30000, Total Sensible Cooling Load: 24,000.
G. PUMPS
This section does not apply to this project.
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0723-0004

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Mechanical Systems
CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 4 of 9)
Date Prepared: 2023-07-19T17:41:02-04:00
H. FAN SYSTEMS & AIR ECONOMIZERS
This section does not apply to this project.
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)(2) 180.2(b)(2) for altered space conditioning systems.
Table with columns 01-09 for system controls.
FCU-1: Single zone, <= 25,000 ft², Setback, Occ. Sensor, DR Tstat per 110.12, NA: Single Zone, NA: No operable windows.
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(p) and 140.4(q) for all nonresidential and hotel/motel and d-124ref(nolink)/160.2, 160.3(a)(3D), 170.2(a)(4N), 170.2(a)(4O) for high-rise residential occupancies.
Table with columns 01-09 for ventilation and IAQ.
SABOR PIRI PIRI: All others, 450, # of Shower heads/toilets, 67.5, Required Min OA CFM, 67.5, Provided per Design CFM, DCV or Sensor Controls per 120.1(d)(3), 120.1(d)(5), and 120.1(e)(3)* 160.2(c)(5D) 160.2(c)(5E) 160.2(c)(5D)
K. TERMINAL BOX CONTROLS
This section does not apply to this project.
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0723-0004

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Mechanical Systems
CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 5 of 9)
Date Prepared: 2023-07-19T17:41:02-04:00
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.
Table with columns 01-09 for distribution.
01: 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.
M. COOLING TOWERS
This section does not apply to this project.
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.
Form/Title:
NRCC-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.
Form/Title:
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-19-A Occupancy Sensor Controls.
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 Compliance ID: 117190-0723-0004

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Mechanical Systems
CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 6 of 9)
Date Prepared: 2023-07-19T17:41:02-04:00
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.
Table with columns 01-09 for distribution.
01: 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.
Duct Leakage Testing
The answers to the questions below apply to the following duct systems:
Table with columns 11-23 for duct leakage testing.
11: No, The scope of the project includes only duct systems serving healthcare facilities.
12: No, 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: Yes, 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: No, <= 25 ft of new or replacement space conditioning ducts installed
21: R-8, Dust Insulation R-value
22: No, Ductwork Existing To Remain
23: Yes, Duct System Connected To Altered Space Conditioning System
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0723-0004

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Mechanical Systems
CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 7 of 9)
Date Prepared: 2023-07-19T17:41:02-04:00
M. COOLING TOWERS
This section does not apply to this project.
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.
Form/Title:
NRCC-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.
Form/Title:
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-19-A Occupancy Sensor Controls.
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 Compliance ID: 117190-0723-0004

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Mechanical Systems
CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 8 of 9)
Date Prepared: 2023-07-19T17:41:02-04:00
Q. MANDATORY MEASURES DOCUMENTATION LOCATION
This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.
Table with columns 01-04 for mandatory measures.
01: Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block.
02: Plan sheet or construction document location.
03: Mandatory Measure.
04: Plan sheet or construction document location.
Heating Equipment Efficiency per 110.1: M0.2
Cooling Equipment Efficiency per 110.1: M0.2
Furnace Standby Loss Control per 110.2(g): N/SA
Duct Insulation per 120.4: M0.1
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(a)-(f): N/A
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2: TYPE 1
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0723-0004

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Mechanical Systems
CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 9 of 9)
Date Prepared: 2023-07-19T17:41:02-04:00
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Claire Loria
Documentation Author Signature:
Company:
Signature Date:
Address:
CEA/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 the builder provides to the building owner at occupancy.
Responsible Designer Name:
Responsible Designer Signature:
Company:
Date Signed:
Address:
License:
City/State/Zip:
Phone:
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0723-0004

Table with 3 columns: REV, DESCRIPTION, DATE. Row 1: 1, PC COMMENTS, 07-19-23.

Table with 3 columns: REV, DESCRIPTION, DATE. Row 1: 1, PC COMMENTS, 07-19-23.

SABOR PIRI PIRI TENANT IMPROVEMENT
800 B AVENUE SUITE 804
NATIONAL CITY CA 91900



TITLE:

MECHANICAL T24 FORMS

JOB NO: B2306-AA123
DRAWN: CL
CHECKED: CZ
SCALE: NONE
DATE: 06.21.2023

M0.3

STATE OF CALIFORNIA
Process Systems CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PRC-4
 This form is used to document any process systems that are within the scope of the permit application and are demonstrating compliance with mandatory requirements in 120.6/ 160.7 or prescriptive requirements in 140.9. This compliance document is used for newly constructed, addition and alteration projects.
 Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 1 of 6)
 Project Address: 800B Avenue Suite 80, National City CA 91950 Date Prepared: 2023-06-27T05:19:43-04:00

A. GENERAL INFORMATION

01	Project Location (city)	NATIONAL CITY	04	Total Conditioned Floor Area	450
02	Climate Zone	7	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 process systems that are within the scope of the permit application and are demonstrating compliance with mandatory requirements in 120.6 / 160.7 or prescriptive requirements in 140.9.
 My project consists of: (check all that apply):

01	02
<input type="checkbox"/> Refrigerated Spaces <3,000 ft ² Total (no Title 24, Pt6 requirements)	<input type="checkbox"/> Escalator & Moving Walkway Speed Controls (mandatory 120.6(g))
<input type="checkbox"/> Refrigerated Spaces >=3,000 ft ² Total (mandatory 120.6(a))	<input type="checkbox"/> Computer Rooms (mandatory 120.6(j)) and prescriptive 140.9(a)) ¹
<input type="checkbox"/> Food/Beverage Stores >=8,000 ft ² cfa (mandatory 120.6(b))	<input checked="" type="checkbox"/> Commercial Kitchen Ventilation/Exhaust (prescriptive 140.9(b)) ¹
<input type="checkbox"/> Enclosed Parking Garage Exhaust >=10,000 cfm (mandatory 120.6(c))	<input type="checkbox"/> Laboratory Exhaust/Factory Exhaust & Fume Hood (prescriptive 140.9(c)) ¹
<input type="checkbox"/> Newly Installed Process Boilers (mandatory 120.6(d))	<input type="checkbox"/> Pool/Spa (mandatory 110.4 / 160.7)
<input type="checkbox"/> Compressed Air Systems Combined HP >= 25 (mandatory 120.6(e))	<input type="checkbox"/> Controlled Environment Horticulture (mandatory 120.6(h))
<input type="checkbox"/> Elevator Lighting & Ventilation Controls (mandatory 120.6(f) / 160.7)	<input type="checkbox"/> New Steam Traps (mandatory 120.6(i))

¹ FOOTNOTES: These building features can comply using the performance method. If using the performance method for these features, compliance should be demonstrated on the NRCC-PRC-E.

Generated Date/Time: Documentation Software: Energy Code Ace
 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0623-0002 Schema Version: rev 20220101 Report Generated: 2023-06-27 02:19:47

STATE OF CALIFORNIA
Process Systems CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PRC-4
 Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 2 of 6)
 Project Address: 800B Avenue Suite 80, National City CA 91950 Date Prepared: 2023-06-27T05:19:43-04:00

C. COMPLIANCE RESULTS
 Results in this table are automatically calculated from data input and calculations in Tables F through R. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table O. Exceptional Conditions for guidance or see applicable Table referenced below.

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Refrigerated Warehouse / Space 120.6(a) (See Table F)	Commercial Refrigeration 120.6(b) (See Table G)	Parking Garage Exhaust 120.6(c) (See Table H)	Process Boilers 120.6(d) (See Table I)	Compressed Air Systems 120.6(e) (See Table J)	Elevators 120.6(f) / 160.7 (See Table K)	Escalators & Moving Walkways 120.6(g) (See Table L)	Computer Rooms 140.9(a) (See Table M)	Commercial Kitchens 140.9(b) (See Table N)	Laboratory/Factory Exhaust 140.9(c) (See Table O)	Controlled Environment Horticulture 120.6(h) (See Table P)	Steam Traps 120.6(i) (See Table Q)	Multifamily Pool/Spa 160.7 (See Table R)	Compliance Results
								Yes					COMPLIES

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.

F. REFRIGERATED WAREHOUSES/SPACES
 This section does not apply to this project.

G. COMMERCIAL REFRIGERATION
 This section does not apply to this project.

Generated Date/Time: Documentation Software: Energy Code Ace
 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0623-0002 Schema Version: rev 20220101 Report Generated: 2023-06-27 02:19:47

STATE OF CALIFORNIA
Process Systems CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PRC-4
 Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 3 of 6)
 Project Address: 800B Avenue Suite 80, National City CA 91950 Date Prepared: 2023-06-27T05:19:43-04:00

H. ENCLOSED PARKING GARAGE EXHAUST
 This section does not apply to this project.

I. PROCESS BOILER
 This section does not apply to this project.

J. COMPRESSED AIR SYSTEMS
 This section does not apply to this project.

K. ELEVATOR LIGHTING AND VENTILATION
 This section does not apply to this project.

L. ESCALATORS AND MOVING WALKWAYS SPEED CONTROLS
 This section does not apply to this project.

M. COMPUTER ROOM SYSTEM SUMMARY
 This section does not apply to this project.

N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION
 This table contains all new and replacement hoods being installed within the scope of the permit application. Table N is used to demonstrate compliance with prescriptive requirements found in 140.9(b).
 Kitchen Ventilation 140.9(b)2

01	<input type="checkbox"/>	Existing kitchen hoods not being replaced as part of an addition or alteration (do not need to meet requirements)
----	--------------------------	---

Requirements

Generated Date/Time: Documentation Software: Energy Code Ace
 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0623-0002 Schema Version: rev 20220101 Report Generated: 2023-06-27 02:19:47

STATE OF CALIFORNIA
Process Systems CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PRC-4
 Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 4 of 6)
 Project Address: 800B Avenue Suite 80, National City CA 91950 Date Prepared: 2023-06-27T05:19:43-04:00

N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION

02	Replacement Air to Hood Compliance Method 140.9(b)1A Providing replacement air directly to the hood(s) that does not exceed 10% of the hood(s) exhaust rate
03	Mechanically cooled or heated makeup air delivered to any space with a kitchen hood is designed per 140.9(b)2A to not exceed the greater of: The supply flow required to meet the space heating and cooling load
04	Location that is supplying transfer air:
05	The kitchen/ dining facility has a total Type I and Type II kitchen hood exhaust airflow > 5000 cfm and is designed to have one of the following per 140.9(b)2B: NA: Not a kitchen/ dining facility having a total Type I and Type II kitchen hood exhaust airflow rate > 5,000 cfm

Kitchen Exhaust: Airflow Rate 140.9(b)1B

01	02	03	04	05	06	07	08
Name or Item Tag	Hood Type ¹	Hood Style	Hood Length (ft)	Equipment Duty	Design Hood Exhaust Rate CFM	Max Hood Exhaust Rate Allowed CFM	
H-1	Type I	Wall-mounted Canopy	8.75	Heavy Duty	1725	2450	

¹ FOOTNOTES: Type II hoods do not have a max hood exhaust air rate per 140.9(b)1B

O. LABORATORY AND FACTORY EXHAUST AND FUME HOODS
 This section does not apply to this project.

P. CONTROLLED ENVIRONMENT HORTICULTURE
 This section does not apply to this project.

Q. STEAM TRAPS IN INDUSTRIAL FACILITIES
 This section does not apply to this project.

Generated Date/Time: Documentation Software: Energy Code Ace
 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0623-0002 Schema Version: rev 20220101 Report Generated: 2023-06-27 02:19:47

STATE OF CALIFORNIA
Process Systems CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PRC-4
 Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 5 of 6)
 Project Address: 800B Avenue Suite 80, National City CA 91950 Date Prepared: 2023-06-27T05:19:43-04:00

R. Pool & SPAs
 This section does not apply to this project.

S. 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 at https://www.energy.ca.gov/title24/2019Standards/2019_compliance_documents/Nonresidential_Documents/NRCC/

Form/Title
 NRCC-PRC-01-E - Covered Process

T. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Selections have been made based on information provided in this document. If any selection 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 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-PRC-02-F Kitchen Exhaust

Systems/Spaces To Be Field Verified
 SABOR PIRI PIRI

Generated Date/Time: Documentation Software: Energy Code Ace
 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0623-0002 Schema Version: rev 20220101 Report Generated: 2023-06-27 02:19:47

STATE OF CALIFORNIA
Process Systems CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PRC-4
 Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 6 of 6)
 Project Address: 800B Avenue Suite 80, National City CA 91950 Date Prepared: 2023-06-27T05:19:43-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: RANIL BATHIANCLA
 Signature Date: 2023-06-27
 Company: MR ENGINEERING CONSULTANTS, INC.
 Address: 39210 STATE ST. STE 106
 City/State/Zip: FREMONT, CA 94538
 CEAT/HERS Certification Identification (if applicable):
 Phone: 510-509-2362

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 building provides to the building owner at occupancy.

Responsible Designer Name: LEVI MALABUYO
 Signature Date: 2023-06-27
 Company: MR ENGINEERING CONSULTANTS, INC.
 Address: 39210 STATE ST. STE 106
 City/State/Zip: FREMONT, CA 94538
 License: M26141
 Phone: 510-509-2362

Generated Date/Time: Documentation Software: Energy Code Ace
 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0623-0002 Schema Version: rev 20220101 Report Generated: 2023-06-27 02:19:47

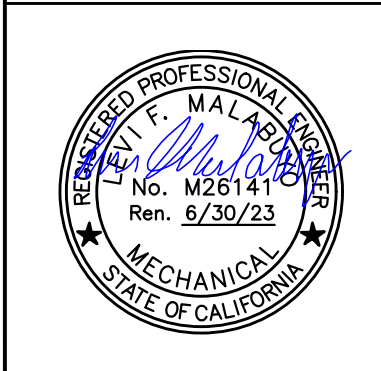
REV	DESCRIPTION	DATE
1	PC COMMENTS	07-19-23

SABOR PIRI PIRI
 TENANT IMPROVEMENT
 800 B AVENUE SUITE 80A
 NATIONAL CITY CA 91950



1171 4th Ave. #811
 San Diego, CA 92111
 phone: (619) 730-4468
 fax: (619) 596-3382
 www.mrengineer.com

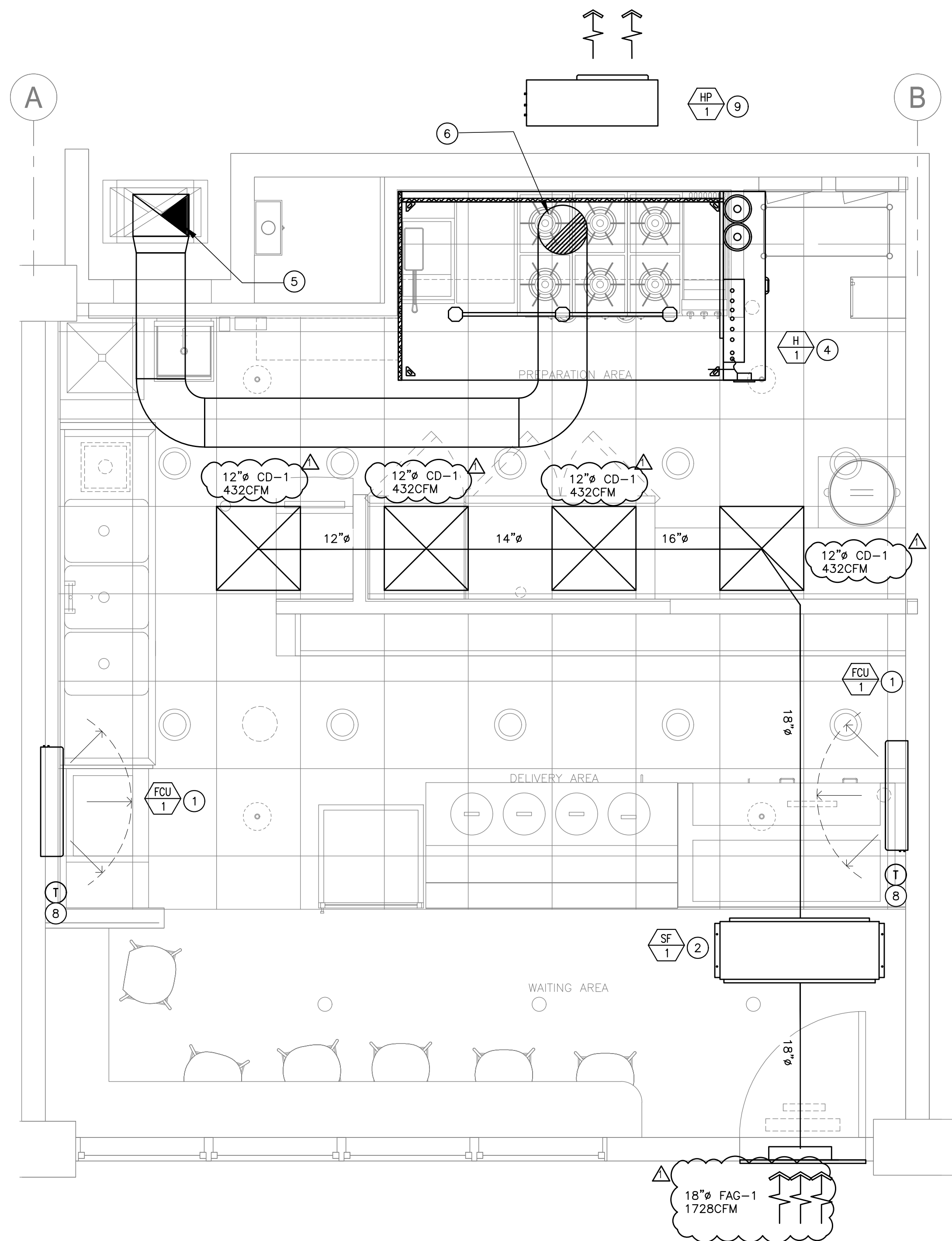
MR ENGINEERING CONSULTANTS, INC.



TITLE:
 MECHANICAL
 T24 FORMS

JOB NO: B2306-AA123
 DRAWN: CL
 CHECKED: CZ
 SCALE: NONE
 DATE: 06.21.2023

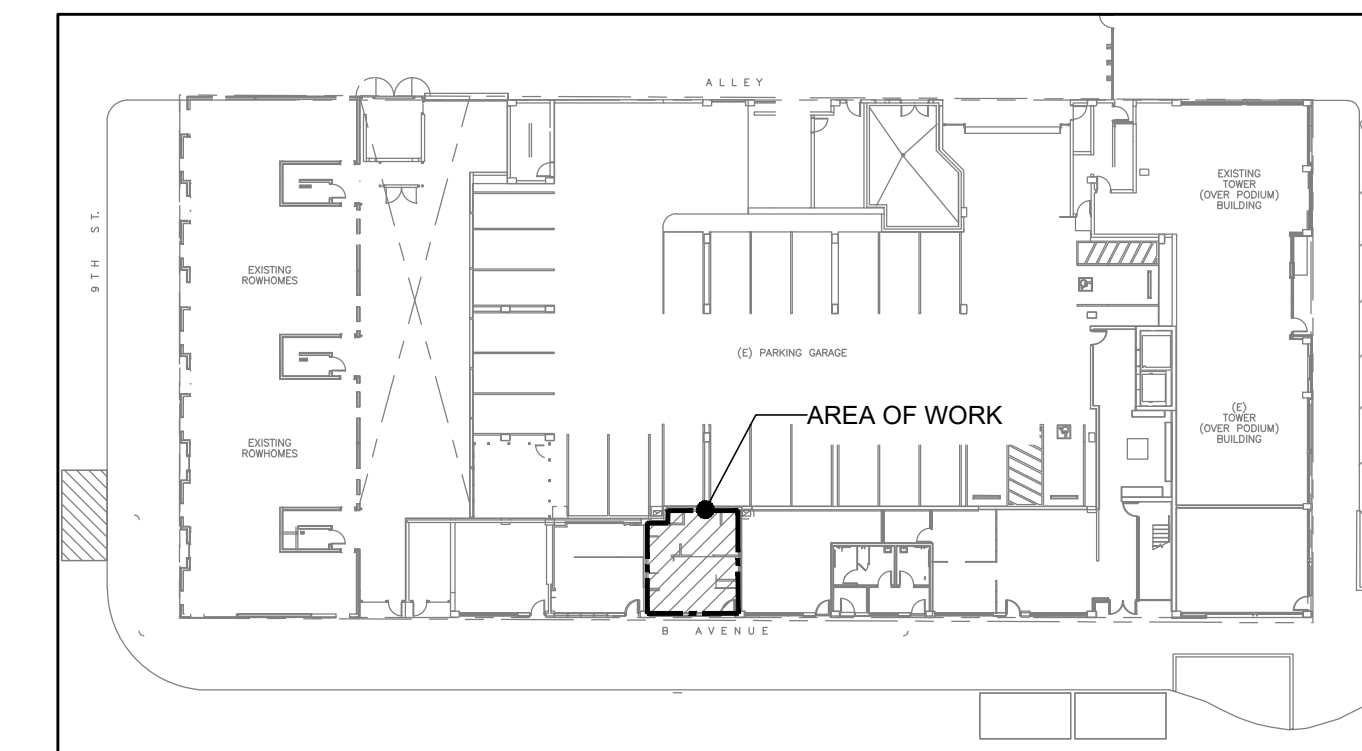
M0.4



1 MECHANICAL FLOOR PLAN
 M2.1 SCALE: 1/2" = 1'-0"

Table 1 - Grease Duct and Building Heating Appliance Chimney Clearances

Duct Model	Inner Diameter (ID)	Outside Diameter	Clearance to Combustibles	Clearance to Non-Combustibles
DW	5"-36"	= ID	18" (1)	0"
DW - 2R	5"-16"	ID + 4	3/4" (2)	0"
	18"	ID + 4	1" (3)	0"
DW - 2R TYPE HT	5"-16"	ID + 4	2" (4)	0"
DW - 3R	5"-24"	ID + 6	3/4" (5)	0"
DW - 3Z	5"-36"	ID + 6	0" (6)	0"



3 KEY PLAN
 M2.1 SCALE: NTS

GENERAL NOTES

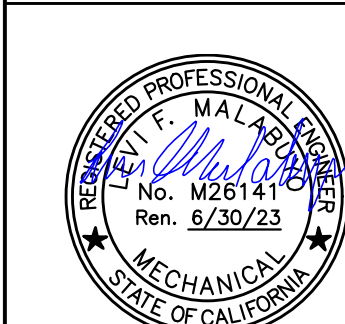
- A. CONTRACTOR SHALL VERIFY IN THE FIELD FOR EXACT LOCATION OF ALL DUCTING/PIPING AND UTILITIES PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.
- B. ALL DUCTING/PIPING LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND OWNER'S REPRESENTATIVE AND VERIFY EXACT ROUTING PRIOR TO START OF WORK.
- C. FINAL THERMOSTAT/REMOTE SENSOR SHALL BE COORDINATED WITH THE ARCHITECT AND GENERAL CONTRACTOR FOR APPROVAL PRIOR TO INSTALLATION.
- D. CONTRACTOR SHALL PERFORM AIR BALANCING AS PART OF TESTING AND COMMISSIONING ACTIVITIES OF ALL HVAC SYSTEM AND EQUIPMENT. DURING THE SAID ACTIVITY, ALL SUPPLY AND EXHAUST AIRFLOW RATES SHALL BE VERIFIED IN ACCORDANCE WITH 2022 CMC SECTION 508.10.1.2 THROUGH SECTION 508.10.1.5.
- E. MECHANICAL HOOD SHOULD COMPLY WITH CMC TABLE 508.10.1.3 AND FOR MEDIUM DUTY COOKING ONLY.
- F. PROVIDE YOUNG REGULATOR BALANCING DAMPER AS NEEDED FOR THE DIFFUSER THAT IS NOT ACCESSIBLE FOR BALANCING.
- G. CONTRACTOR TO PROVIDE ACCESS PANEL TO ALL MECHANICAL EQUIPMENTS FOR MAINTENANCE IF NOT READILY ACCESSIBLE. COORDINATE WITH ARCHITECT.

KEY NOTES

- 1 NEW WALL MOUNTED FAN COIL UNIT. SEE SHEET M0.2 FOR UNIT SPECIFICATION.
- 2 NEW INLINE SUPPLY FAN. SEE SHEET M0.2 FOR UNIT SPECIFICATION.
- 3 NEW KITCHEN EXHAUST FAN. SEE SHEET M0.2 FOR UNIT SPECIFICATION.
- 4 NEW TYPE I HOOD. REFER TO SHEETS M0.2 AND M4.1 TO M4.8 FOR THE EQUIPMENT DETAILS AND SPECIFICATIONS. HOOD SHALL BE SECURED IN PLACE TO RESIST THE LATERAL LOADS.
- 5 16"x12" KITCHEN HOOD EXHAUST DUCT RISER T/A, CONNECT TO KEF-1.
- 6 14" EXHAUST DUCT CONNECTION TO NEW TYPE I HOOD.
- 7 FAN DISCHARGE SHALL BE FORTY(40) INCHES ABOVE THE ROOF SURFACES AND SHALL HAVE A MINIMUM OF TEN (10) FOOT CLEARANCE FROM ANY OUTSIDE AIR INTAKE. IF AN EXHAUST FAN SHALL BE EXTENDED BY MEANS OF SHROUD ON ROUND FANS TO MEETS THE THREE (3) FEET VERTICAL CLEARANCE REQUIREMENT.
- 8 FCU THERMOSTAT. COORDINATE WITH ARCHITECT. REFER TO DETAIL #5/M3.1 FOR MOUNTING.
- 9 NEW HEAT PUMP UNIT. SEE SHEET M0.2 FOR UNIT SPECIFICATION.

REV	DESCRIPTION	DATE
Δ	PC COMMENTS	07-19-23

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 NATIONAL CITY CA 91950

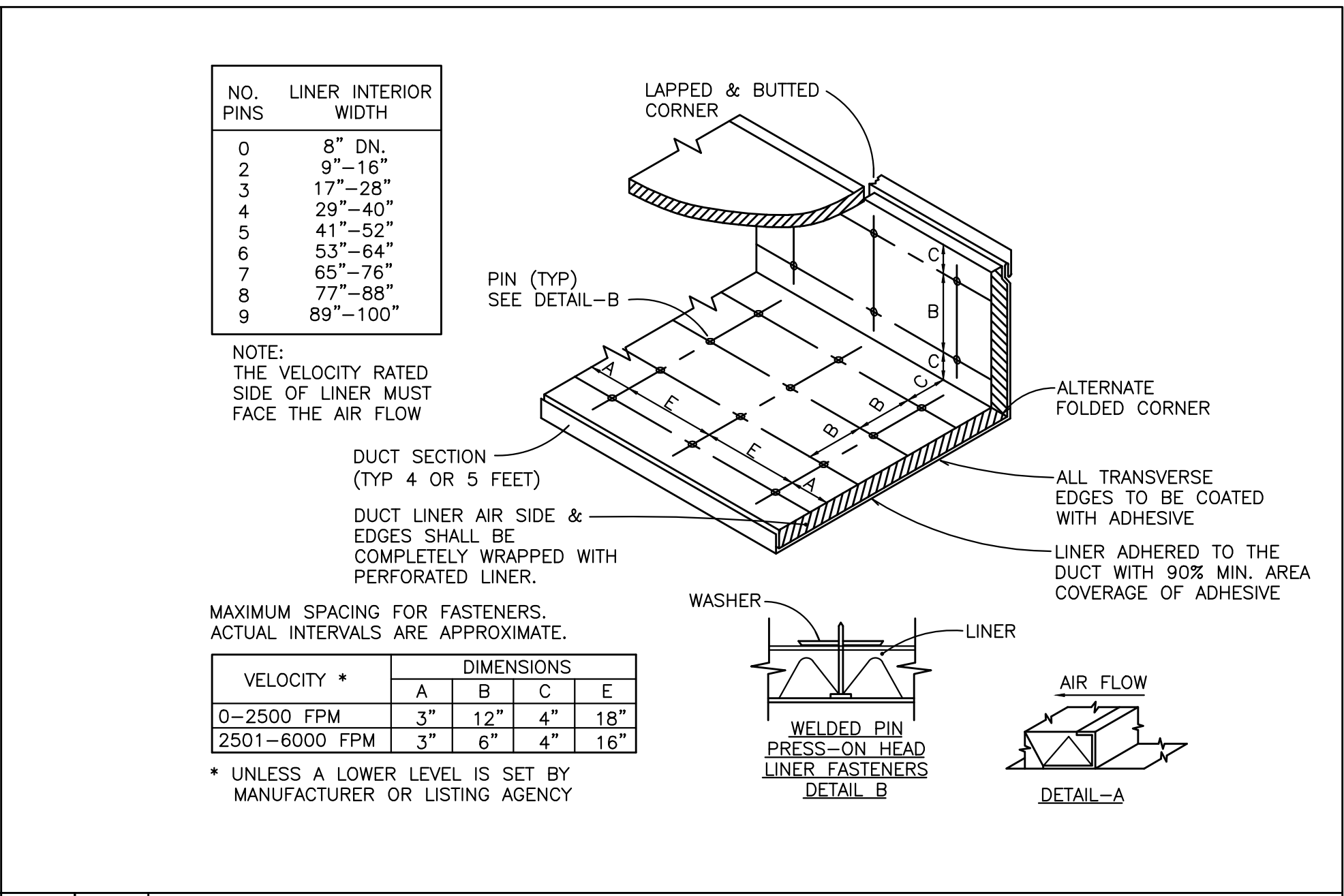
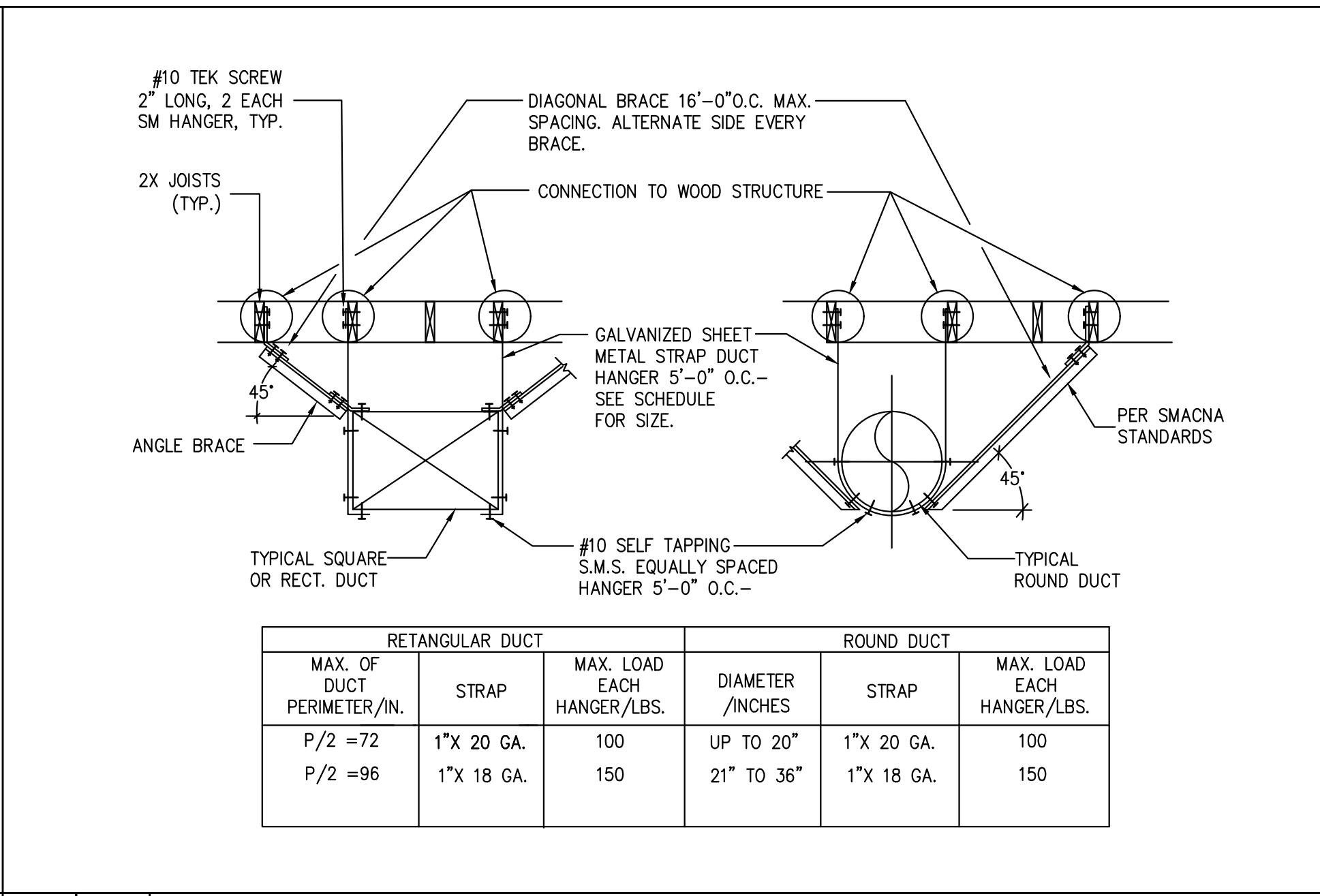
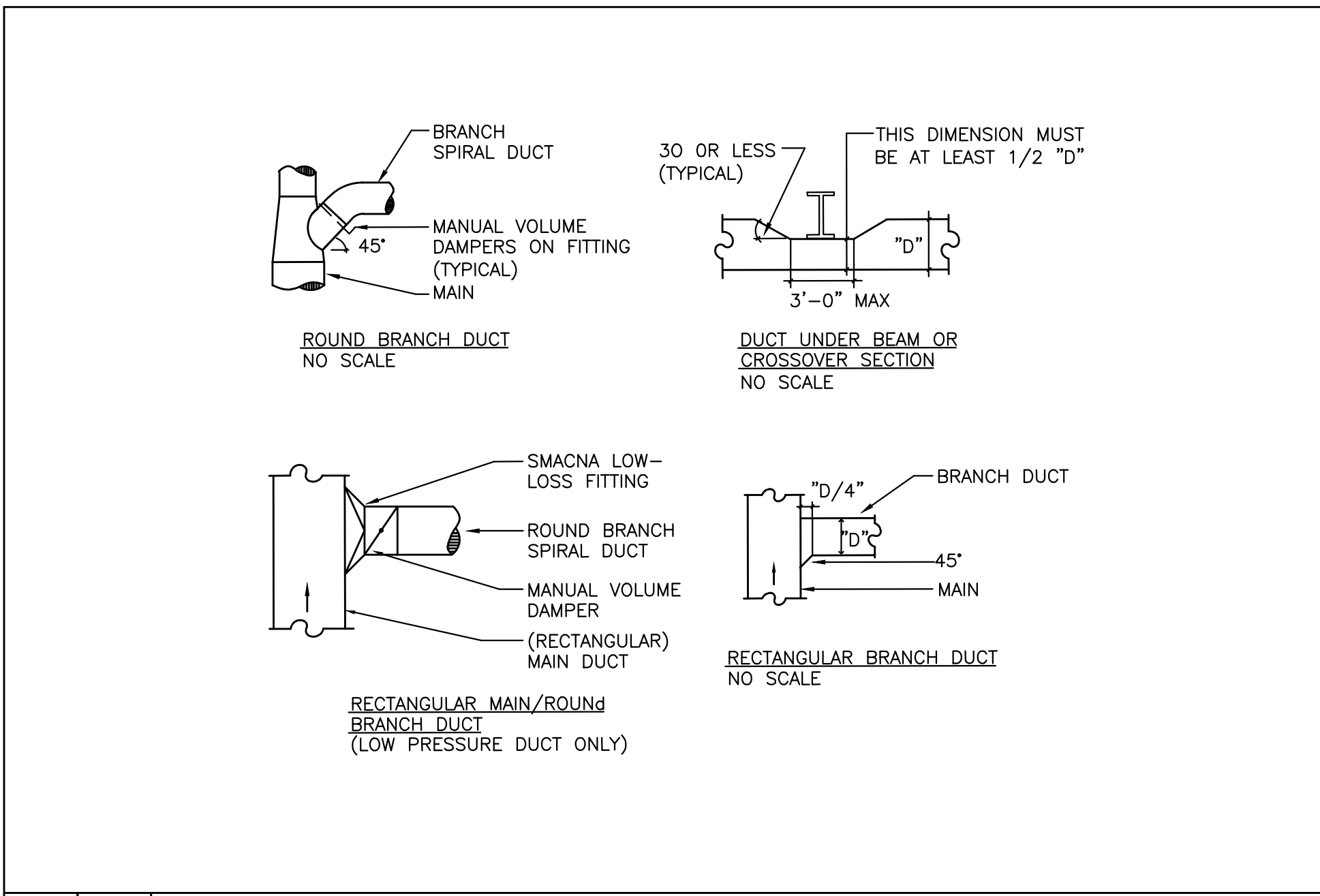


TITLE:
MECHANICAL FLOOR & ROOF PLAN

JOB NO: B2306-AA123
 DRAWN: CL
 CHECKED: CZ
 SCALE: AS SHOWN
 DATE: 06.21.2023

M2.1

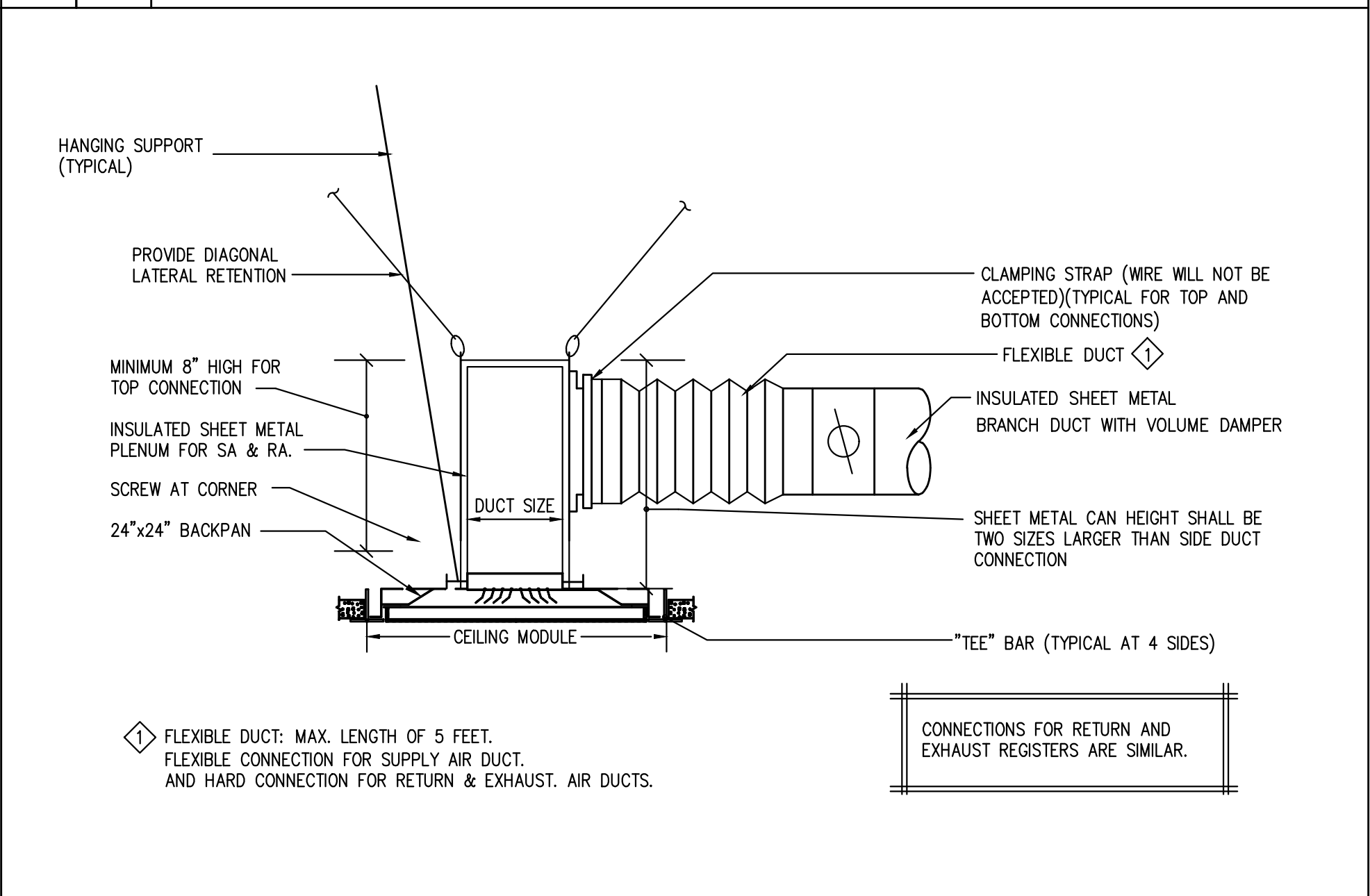
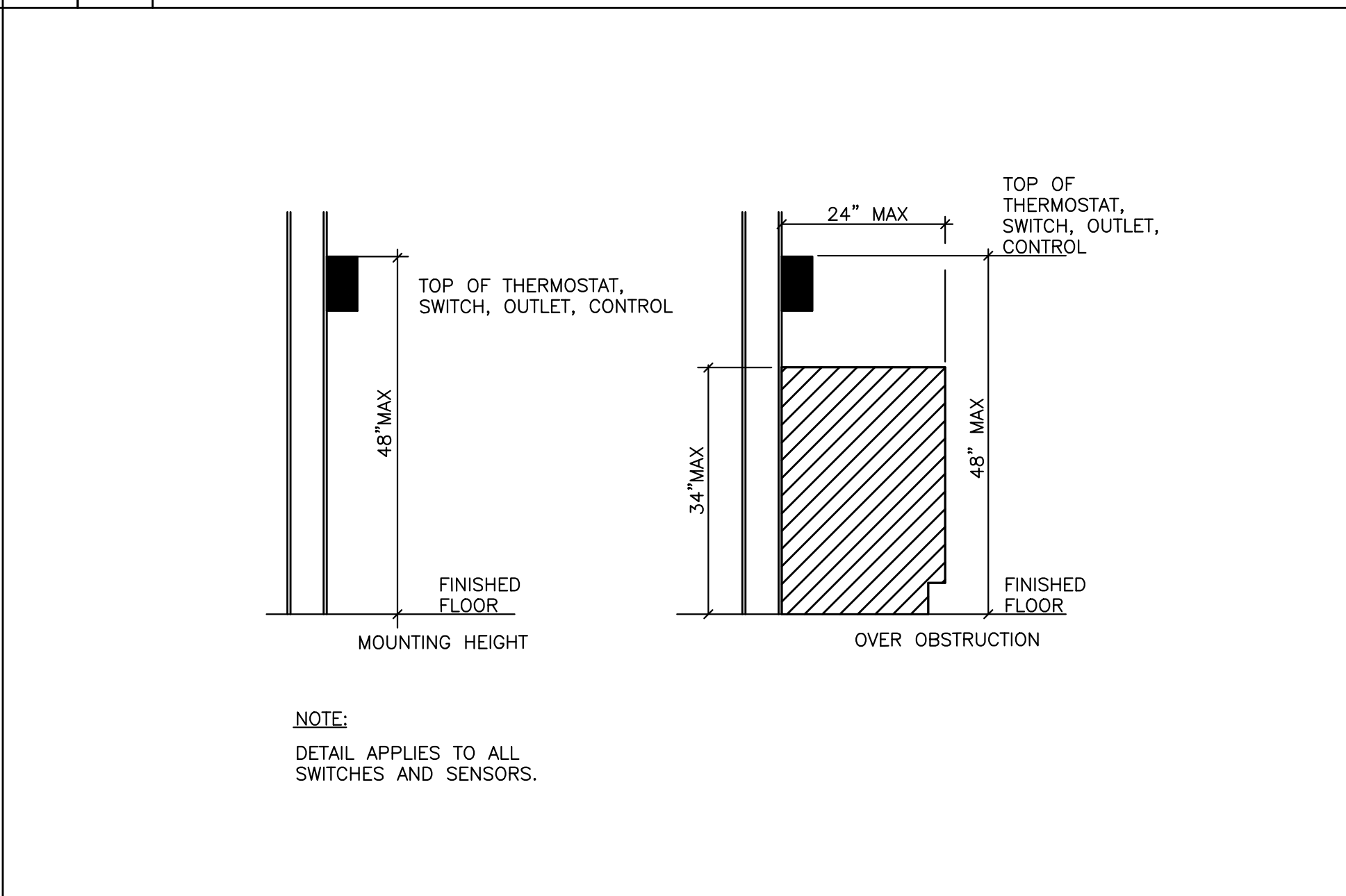
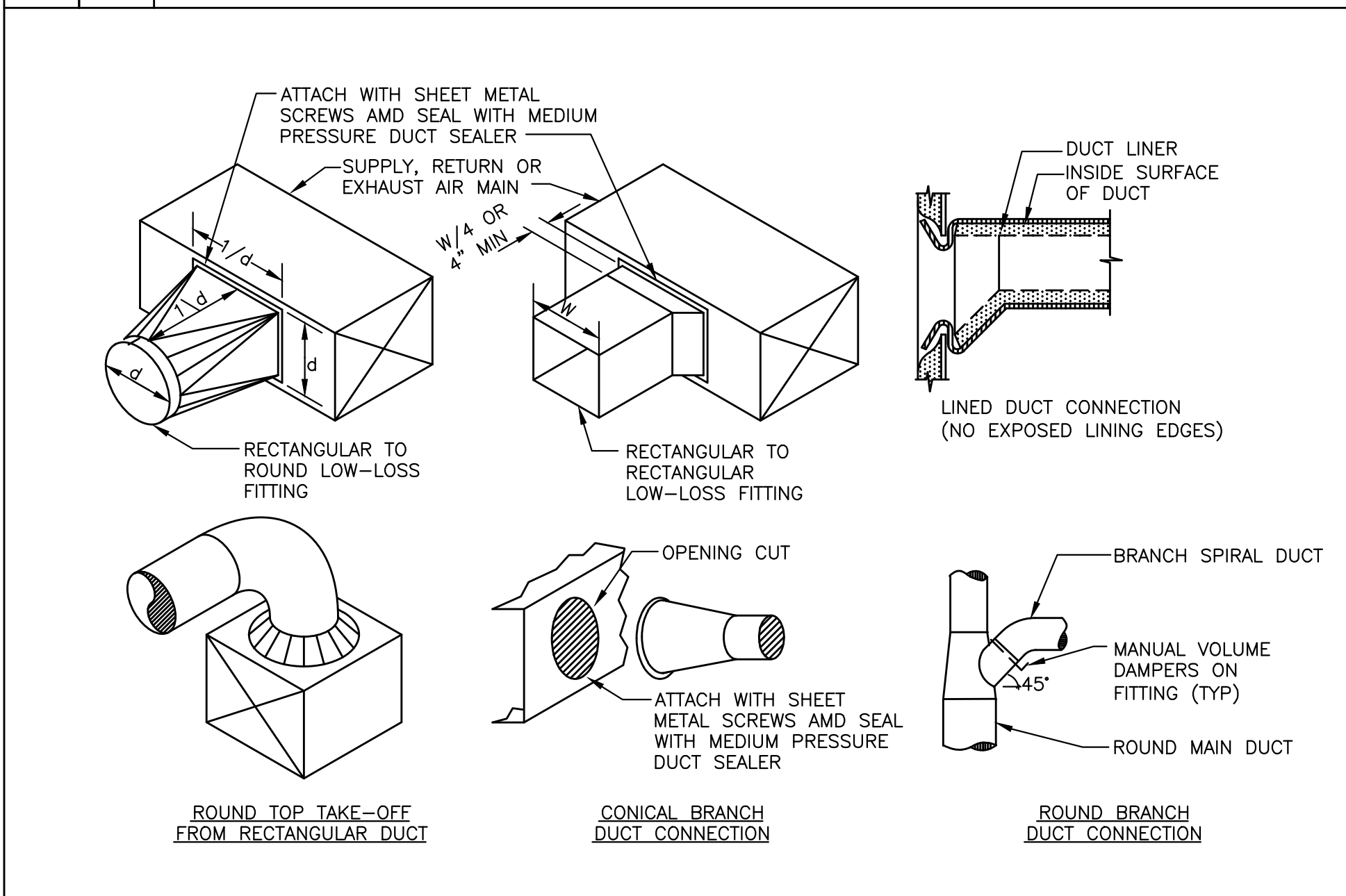
REV	DESCRIPTION	DATE
△	PC COMMENTS	07-19-23



1 SCALE NONE DUCT INSTALLATION DETAIL

2 SCALE NONE DUCT SUPPORT DETAIL

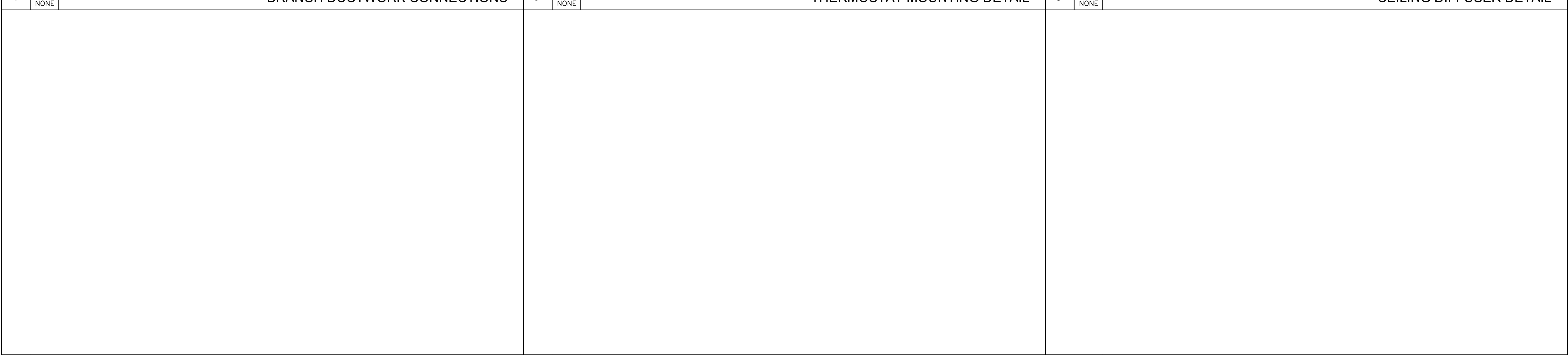
3 SCALE NONE DUCT LINING DETAIL



4 SCALE NONE BRANCH DUCTWORK CONNECTIONS

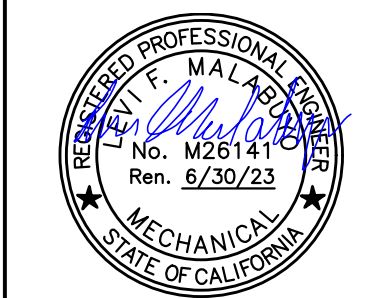
5 SCALE NONE THERMOSTAT MOUNTING DETAIL

6 SCALE NONE CEILING DIFFUSER DETAIL



SCALE NONE

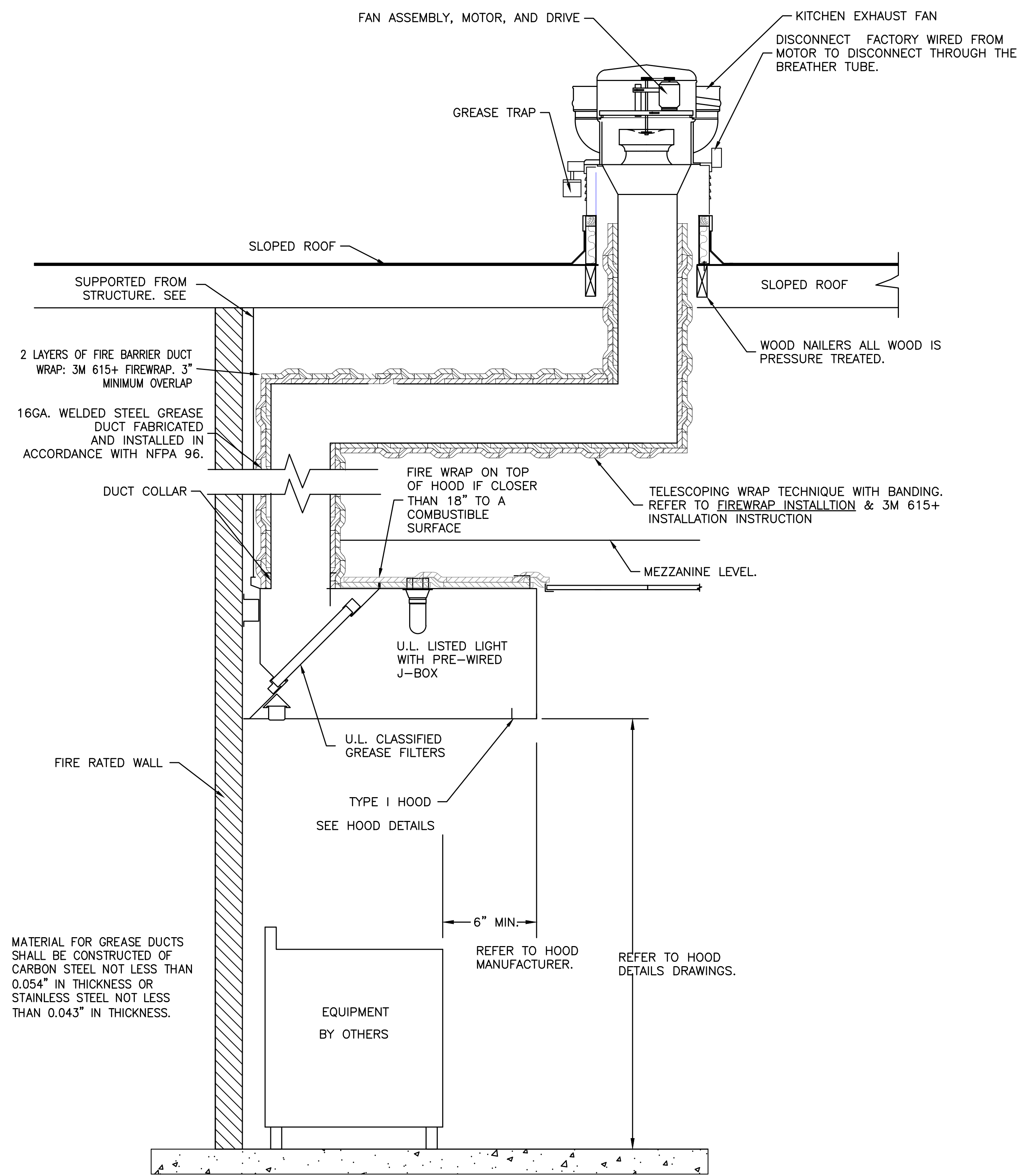
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800 B AVENUE SUITE 804
NATIONAL CITY CA 91950



TITLE:
**MECHANICAL
DETAILS**

JOB NO: B2306-AA123
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SCALE: NONE
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M3.1



MATERIAL FOR GREASE DUCTS SHALL BE CONSTRUCTED OF CARBON STEEL NOT LESS THAN 0.054" IN THICKNESS OR STAINLESS STEEL NOT LESS THAN 0.043" IN THICKNESS.

SCALE
NONE

SCALE
NONE

7 SCALE
NONE

KITCHEN EXHAUST DUCT RISER UP THROUGH ROOF DETAIL

SCALE
NONE

REV	DESCRIPTION	DATE
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 SCALE: NONE
 DATE: 06.21.2023

M3.2

REV	DESCRIPTION	DATE
△	PC COMMENTS	07-19-23

FOR QUESTIONS, CALL THE
Inland Empire
REGION 102
PHONE: (951) 231-5102
EMAIL: reg102@captivaire.com

PATENT NUMBERS
EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

HOOD INFORMATION - JOB#6067442

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)						HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL		SP	END TO END	ROW
1		5424 ND-2	CAPTIVEAIRE	7' 8"	600 DEG	I	HEAVY	225	1725			4"	14"	1725	1614	-0.711"	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	TYPE	FILTER(S)			EFFICIENCY @ 7 MICRONS	QTY	LIGHT(S)			UTILITY CABINET(S)			FIRE SYSTEM	HOOD HANGING WEIGHT		
			QTY	HEIGHT	LENGTH			TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM	SIZE			ELECTRICAL	SWITCHES
1		CAPTRATE SOLO FILTER	5	20"	16"	85% SEE FILTER SPEC	3	L55 SERIES E26	NO	RIGHT	12"x54"x24"	TANK FS	4.0/4.0	SC-310110MA	1 LIGHT 1 FAN	YES	801 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		LEFT END STANDOFF (FINISHED) 1" WIDE 54" LONG INSULATED.
		INSULATION FOR TOP OF HOOD.
		INSULATION FOR BACK OF HOOD.
		RIGHT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

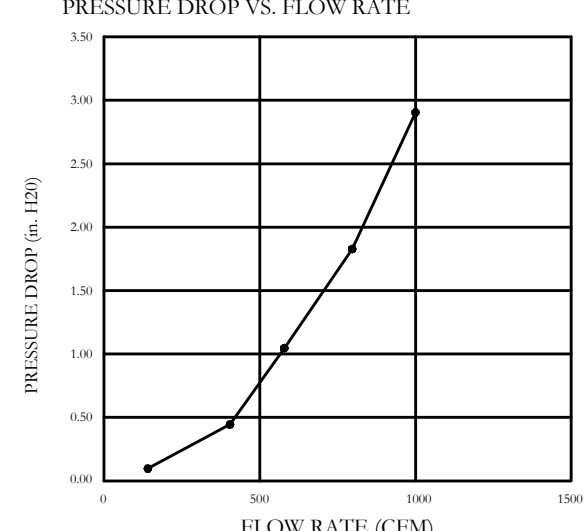
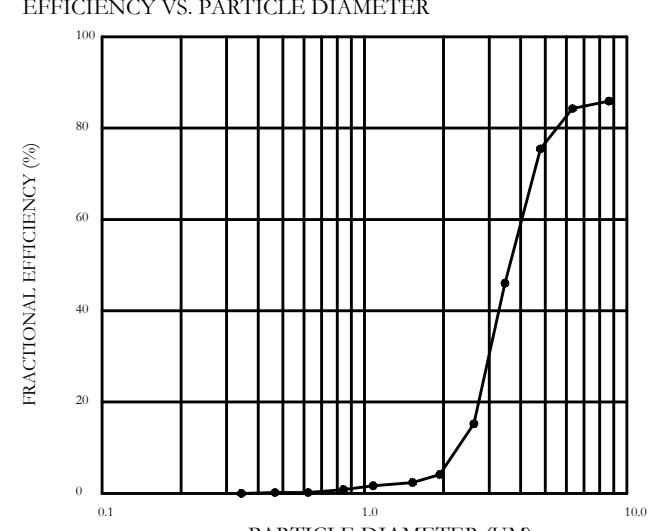
THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.



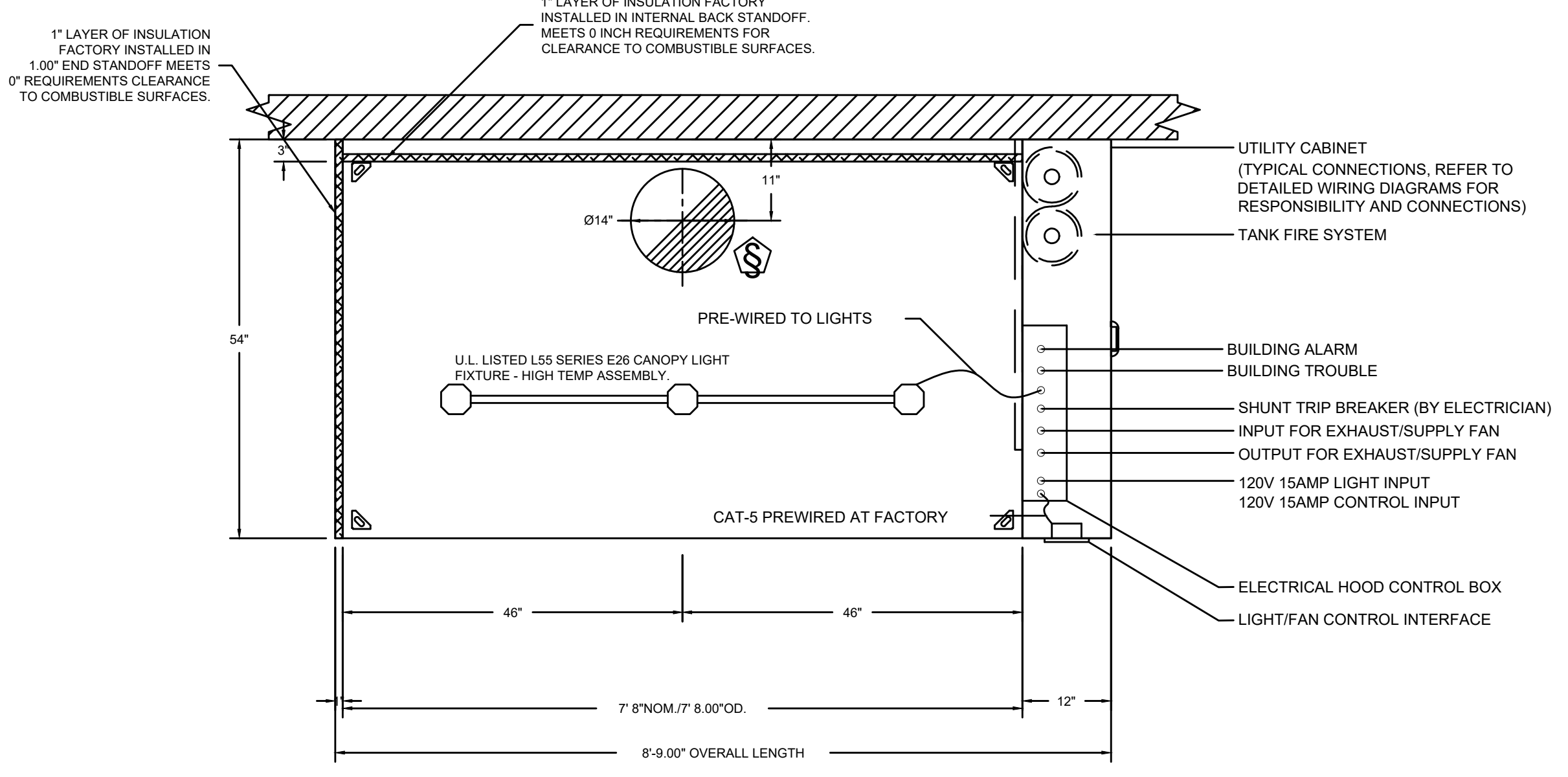
CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC)
ULC-S649.



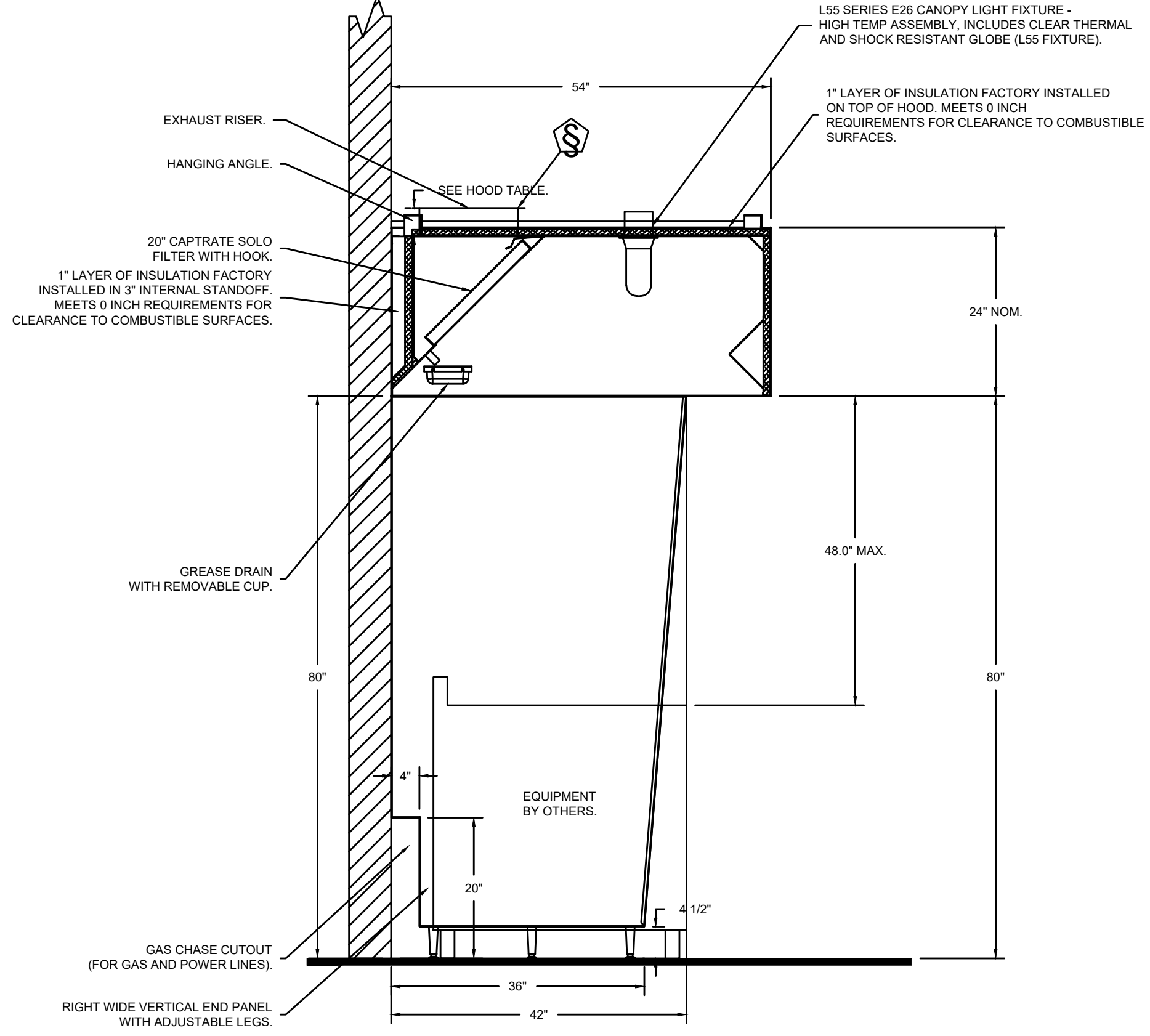
REVISIONS	
DESCRIPTION	DATE



3002 Dow Avenue, Suite 202, Tustin, CA, 92780 PHONE: (951) 231-5102 EMAIL: reg102@captivaire.com



PLAN VIEW - HOOD #1
7' 8.00" LONG 5424ND-2



SECTION VIEW - MODEL 5424ND-2
HOOD - #1

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NATIONAL CITY, CA, 91950

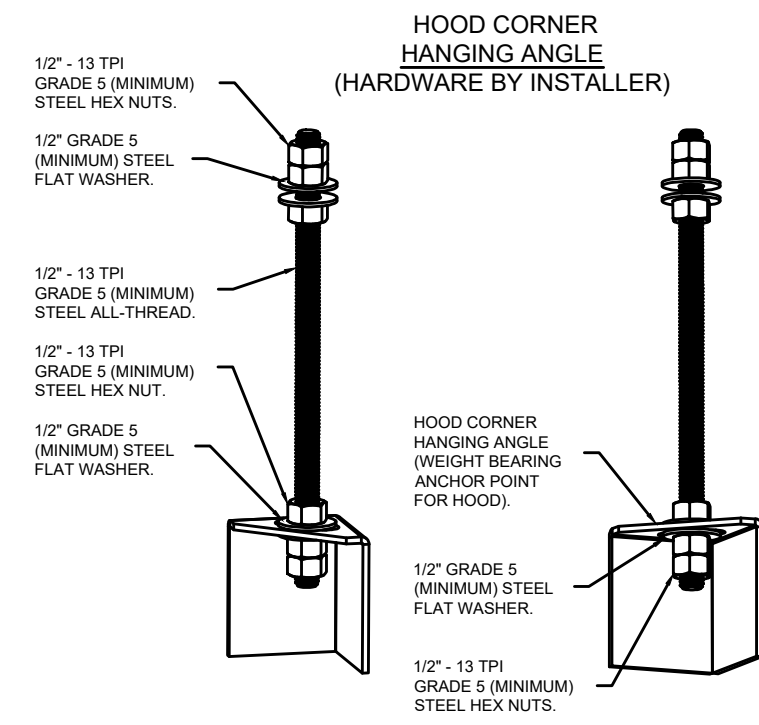
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DWG.#: 6067442
DRAWN BY: MR-102
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 1

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NATIONAL CITY CA 91950



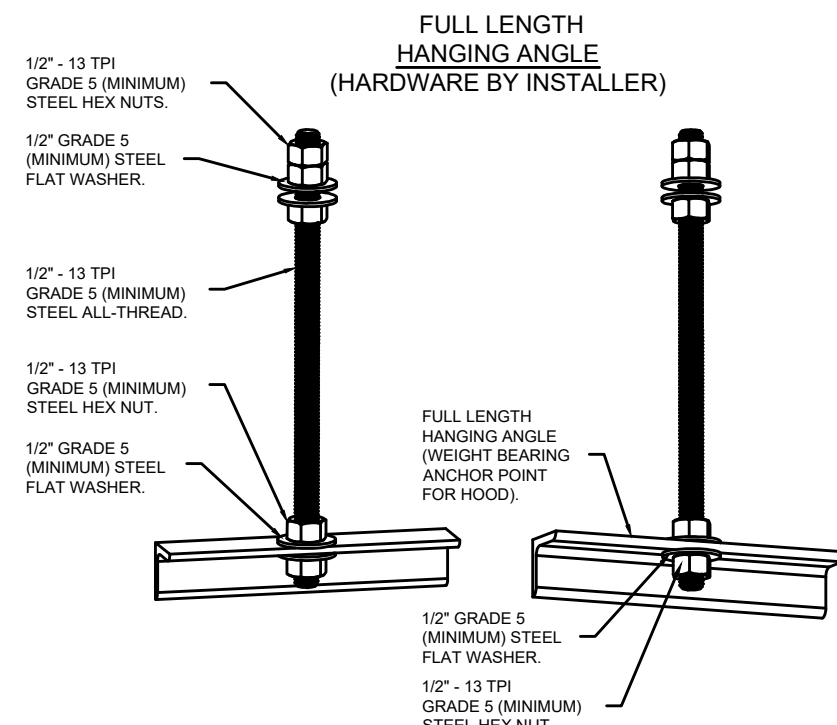
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MECHANICAL HOOD DETAILS
JOB NO: B2306-AA123
DRAWN: CL
CHECKED: CZ
SCALE: NONE
DATE: 06.21.2023

M4.1



ASSEMBLY INSTRUCTIONS

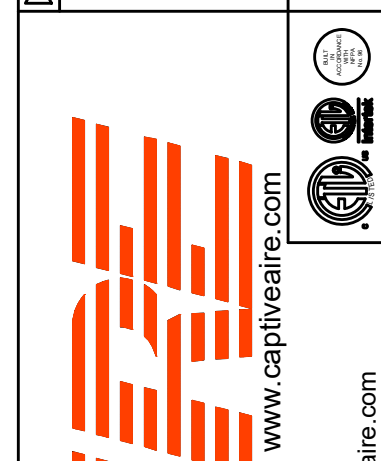
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

REVISIONS		
NO.	DESCRIPTION	DATE



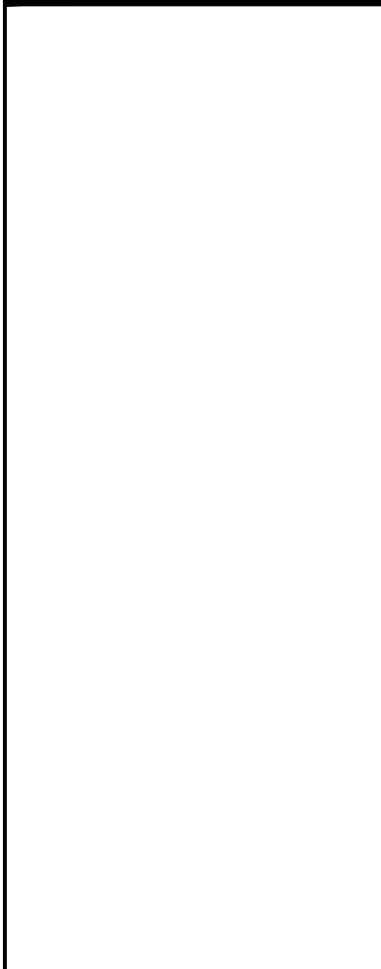
CAPTIVE
Inland Empire
www.captiveaire.com
3002 Dow Avenue, Suite 202, Tustin, CA, 92780 PHONE: (951) 231-5102 EMAIL: reg102@captiveaire.com

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NATIONAL CITY, CA, 91950

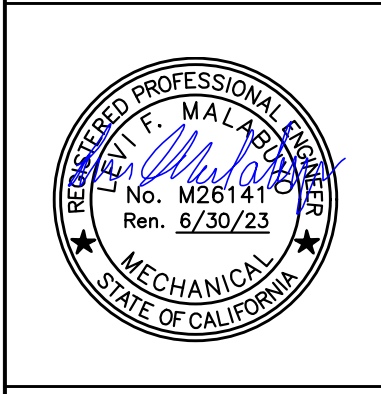
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MASTER DRAWING

SHEET NO.
2

REV	DESCRIPTION	DATE



**SABOR PIRI PIRI
TENANT IMPROVEMENT**
800 B AVENUE SUITE 804
NATIONAL CITY CA 91950



TITLE:
**MECHANICAL
HOOD
DETAILS**

JOB NO:	B2306-AA123
DRAWN:	CL
CHECKED:	CZ
SCALE:	NONE
DATE:	06.21.2023

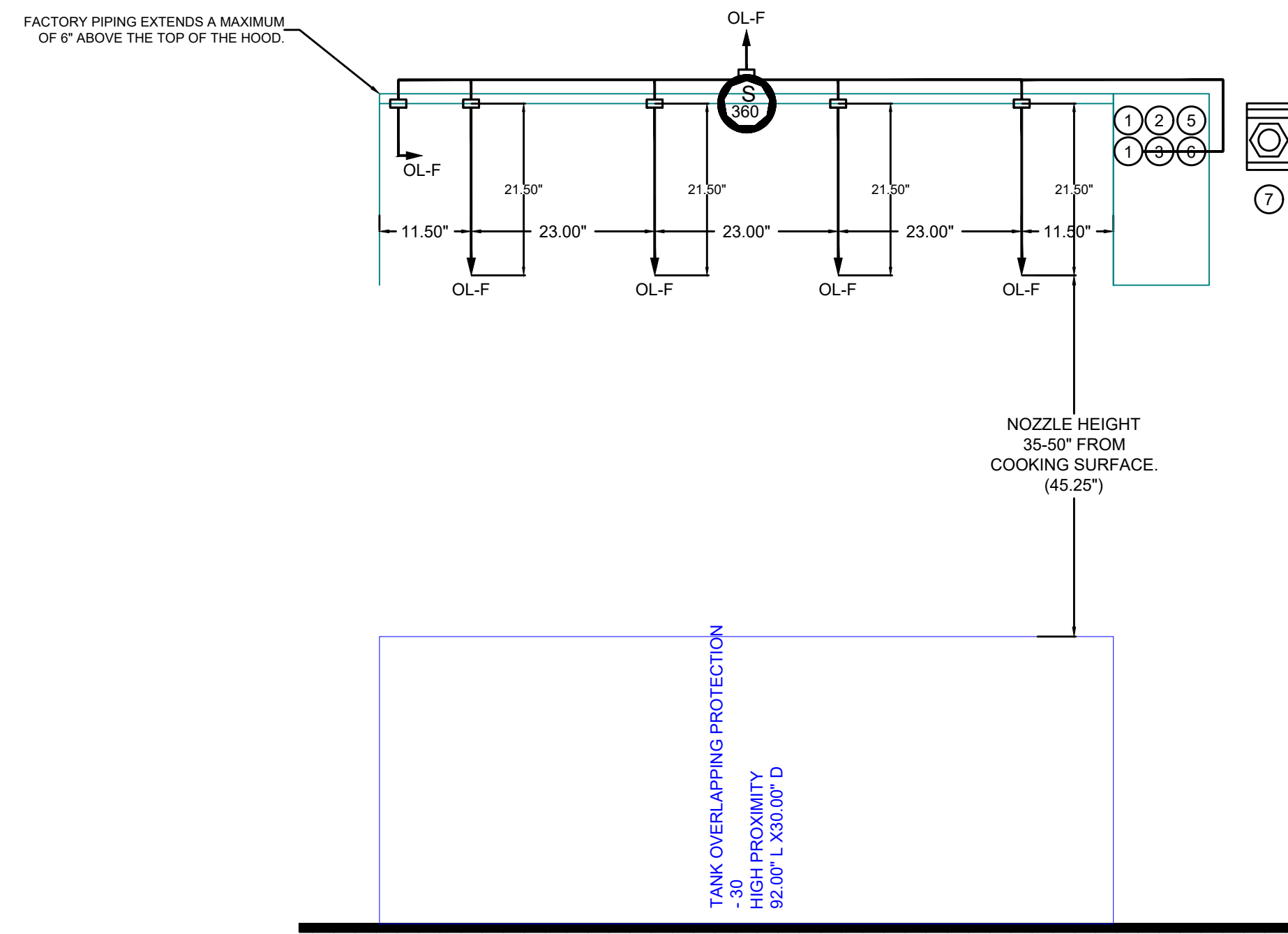
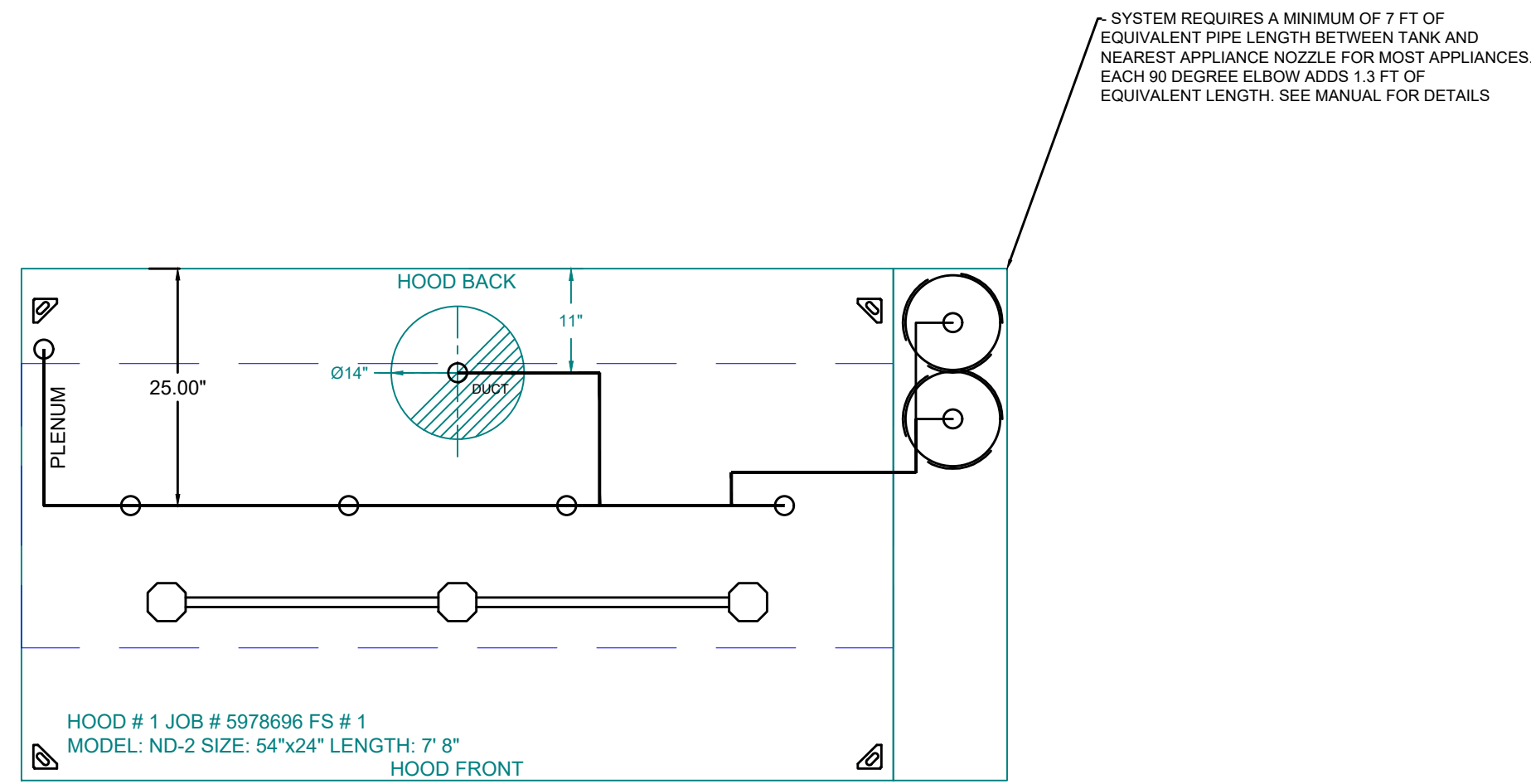
M4.2

FIRE SYSTEM INFORMATION – JOB#6067442

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	28	FIRE CABINET RIGHT	RIGHT, HOOD 1

CAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL		CAPTIVEAIRE SYSTEMS



SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.3 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS

FACTORY PIPING EXTENDS A MAXIMUM OF 6\"/>

NOTES

- FIELD PIPE DROPS AS SHOWN
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVEING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6\"/>

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS
 JOB #: 5978696.
 JOB NAME: SABOR PIRI PIRI - NATIONAL CITY REV.1.

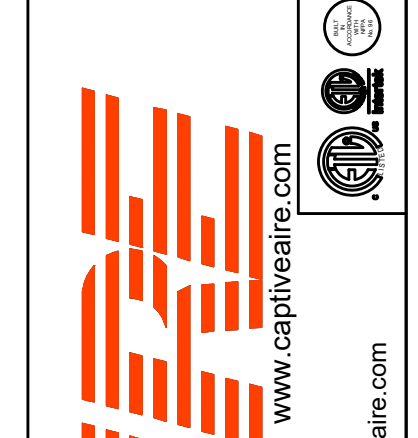
SYSTEM SIZE: TANK-SP-2 TOTAL FP REQUIRED: 28.
 HOOD # 1 7' 8.00\"/>

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

LEGEND – FIRE CABINET TANK SYSTEM

- 4 GALLON TANK.
- PRIMARY ACTUATOR RELEASE.
- SECONDARY ACTUATOR RELEASE.
- PRESSURE SUPERVISION SWITCH.
- PRIMARY HOSE ASSEMBLY.
- SECONDARY HOSE ASSEMBLY.
- REMOTE MANUAL ACTUATION DEVICE.

REVISIONS	
DESCRIPTION	DATE

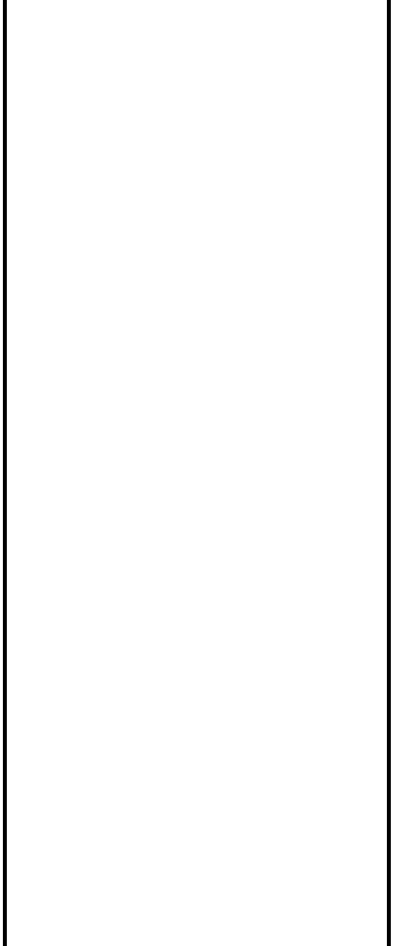


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 NATIONAL CITY, CA, 91950

DATE: 6/20/2023
 DWG.#: 6067442
 DRAWN BY: MR-102
 SCALE: 3/4\"/>

SHEET NO. 3

REV	DESCRIPTION	DATE



**SABOR PIRI PIRI
 TENANT IMPROVEMENT**
 800 B AVENUE SUITE 804
 NATIONAL CITY CA 91950



TITLE:
**MECHANICAL
 HOOD
 DETAILS**

JOB NO: B2306-AA123
 DRAWN: CL
 CHECKED: CZ
 SCALE: NONE
 DATE: 06.21.2023

M4.3

EXHAUST FAN INFORMATION – JOB#6067442

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1		1	DU180HFA	CAPTIVEAIRE	1725	1.000	966	TEFC,PREMIUM	1.000	0.6060	3	208	3.9	398 FPM	153	9.5

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1		1	GREASE BOX
1		1	EXHAUST FAN HEAT BAFFLE
1		1	2 YEAR PARTS WARRANTY

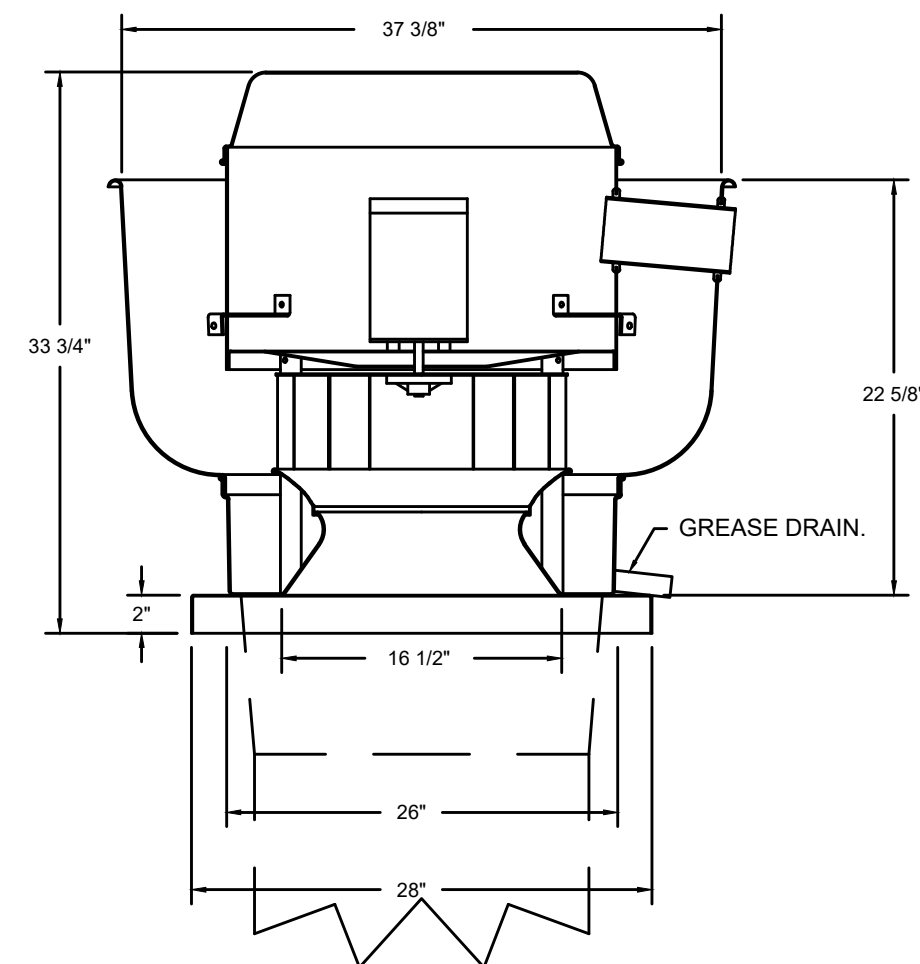
FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST				SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1		YES						

CURB ASSEMBLIES

NO	ON FAN	WEIGHT	ITEM	SIZE
1	#1	41 LBS	CURB	26.500"W X 26.500"L X 20.000"H VENTED HINGED.

FAN #1 DU180HFA - EXHAUST FAN



TOP VIEW

FEATURES:

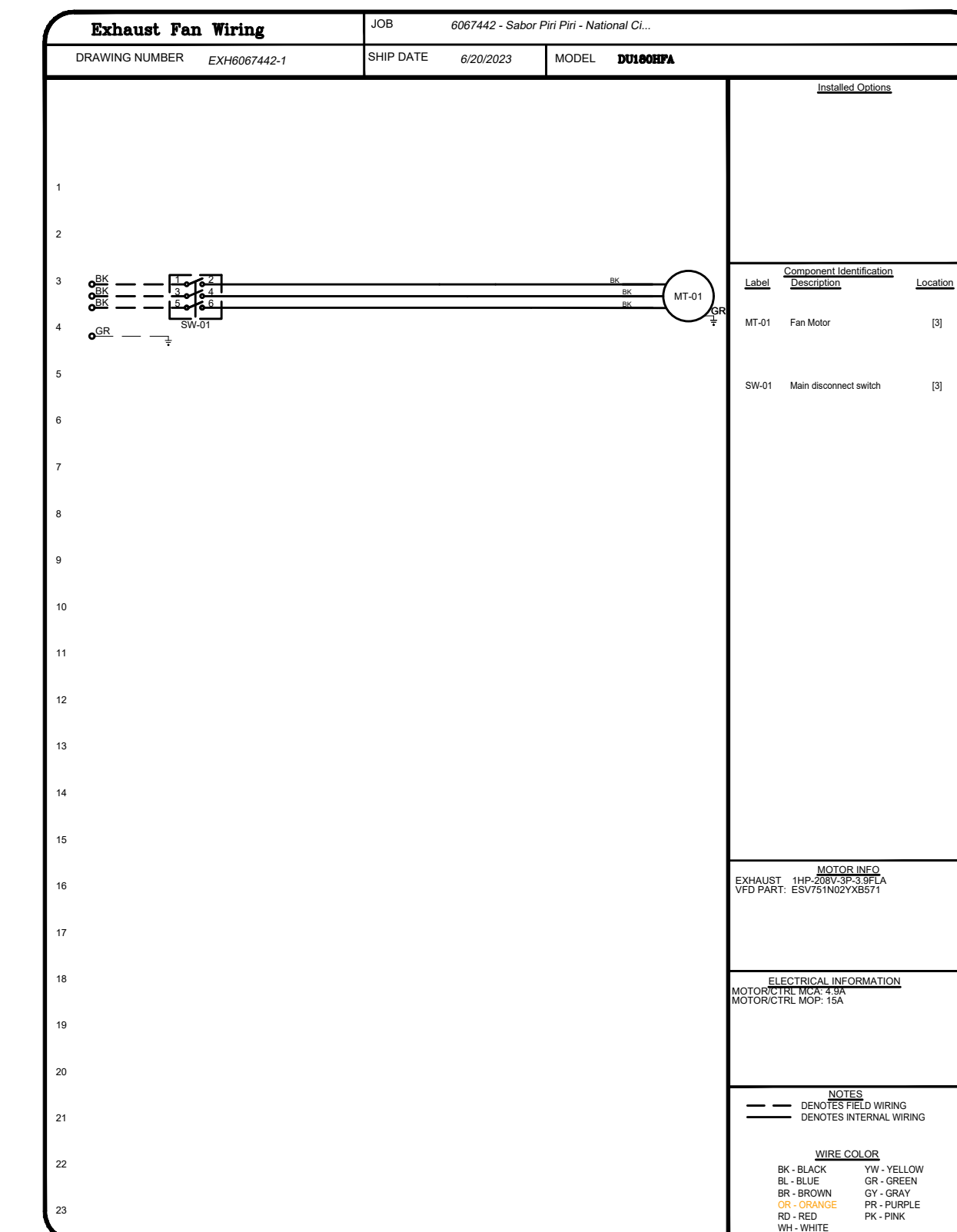
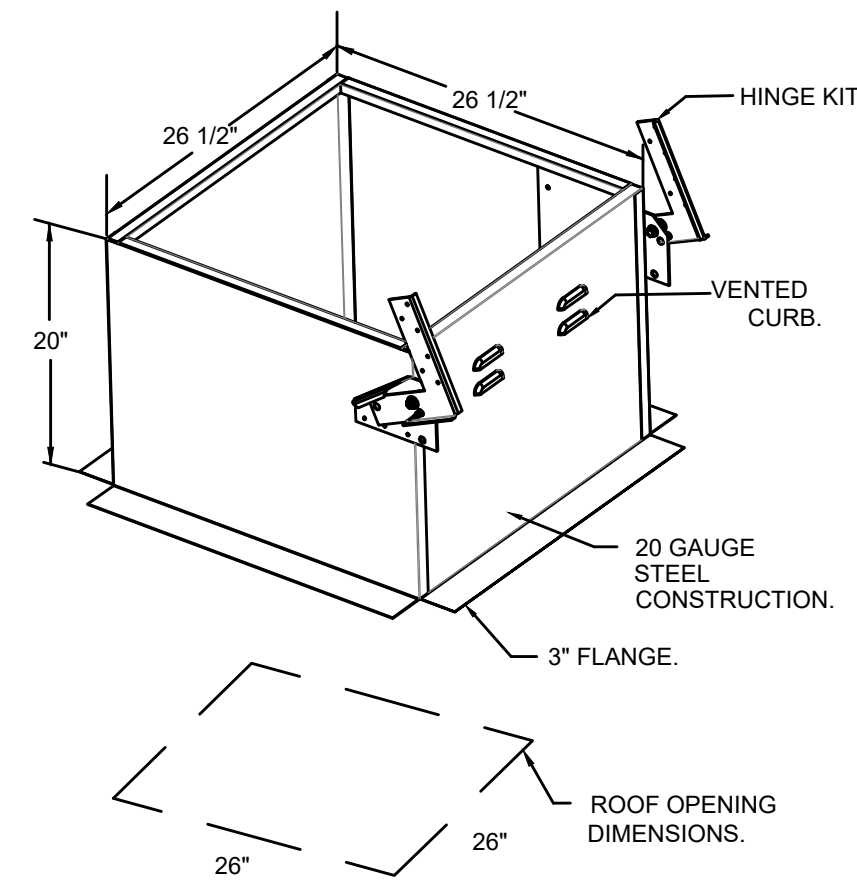
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND IULC-8645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- EXHAUST FAN HEAT BAFFLE.
- 2 YEAR PARTS WARRANTY.



REVISIONS	
DESCRIPTION	DATE

Sabor Piri Piri - National City rev.3
NATIONAL CITY, CA, 91950

DATE: 6/20/2023
DWG.#: 6067442
DRAWN BY: MR-102
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 5

REV	DESCRIPTION	DATE

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ENGINEERING
CONSULTANTS INC.

TITLE:
MECHANICAL HOOD DETAILS

JOB NO: B2306-AA123
DRAWN: CL
CHECKED: CZ
SCALE: NONE
DATE: 06.21.2023

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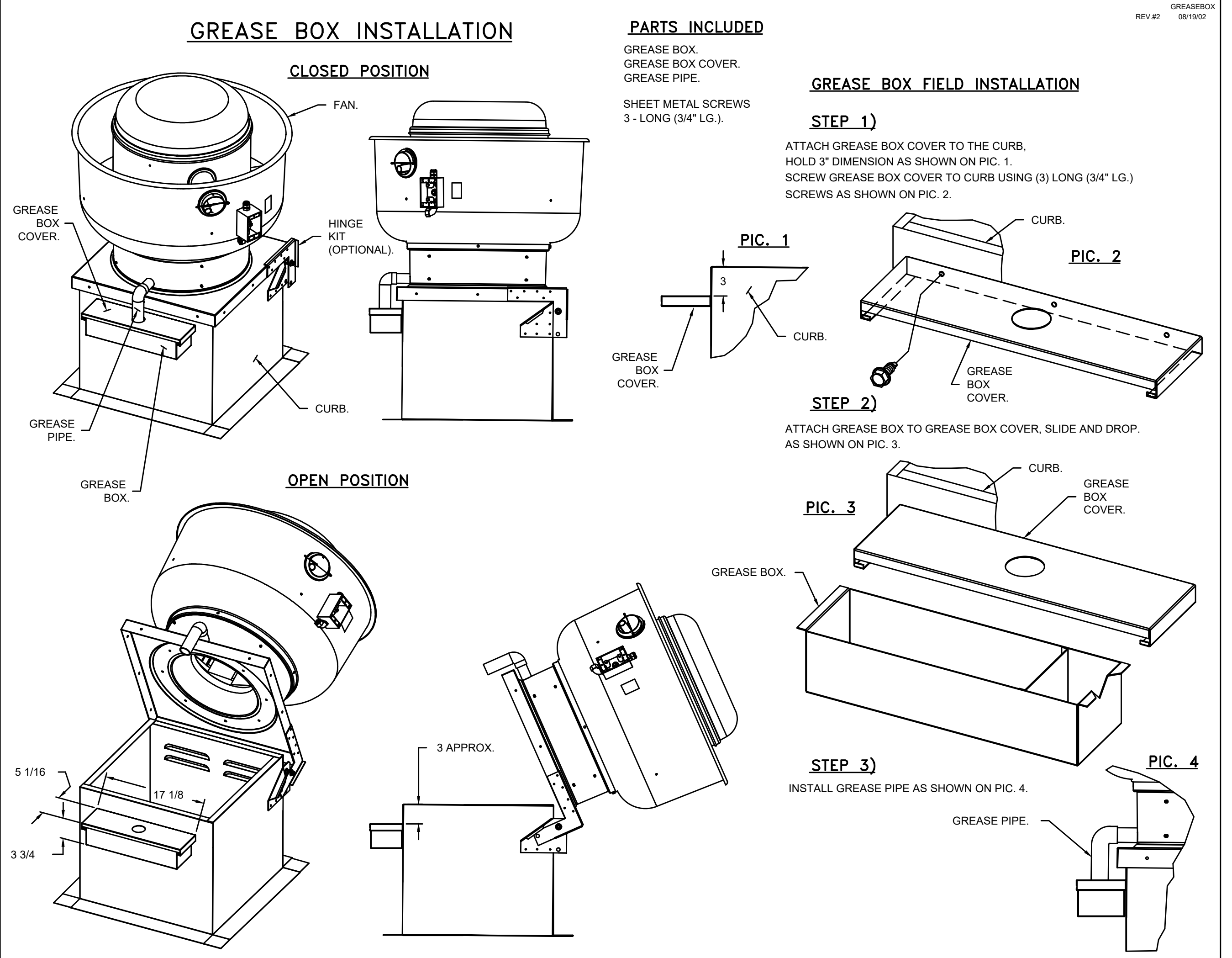
REV	DESCRIPTION	DATE
△	PC COMMENTS	07-19-23

GREASE DUCT & CHIMNEY SPECIFICATIONS:
 PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW"
 ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW"
 IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING
 CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW"
 DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER
 THE MANUFACTURES INSTALLATION GUIDE.
 PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER
 MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12",
 HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12".
 DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN
 HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT
 LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL
 "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE
 430 STAINLESS OUTER SHELL.

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED	<input type="checkbox"/>
APPROVED WITH NO EXCEPTION TAKEN	<input type="checkbox"/>
REVISE AND RESUBMIT	<input type="checkbox"/>
SIGNATURE _____	_____
YOUR TITLE _____	DATE _____



REVISIONS	
DESCRIPTION	DATE

CAPTIVE AIR
 Inland Empire
 3002 Dow Avenue, Suite 202, Tustin, CA, 92780 PHONE: (951) 231-15102 EMAIL: reg102@captiveaire.com
 www.captiveaire.com

Sabor Piri Piri - National City rev.3
 NATIONAL CITY, CA, 91950

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SHEET NO.
 6

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**ENGINEERING
 CONSULTANTS INC.**



TITLE:
**MECHANICAL
 HOOD
 DETAILS**

JOB NO: B2306-AA123
 DRAWN: CL
 CHECKED: CZ
 SCALE: NONE
 DATE: 06.21.2023

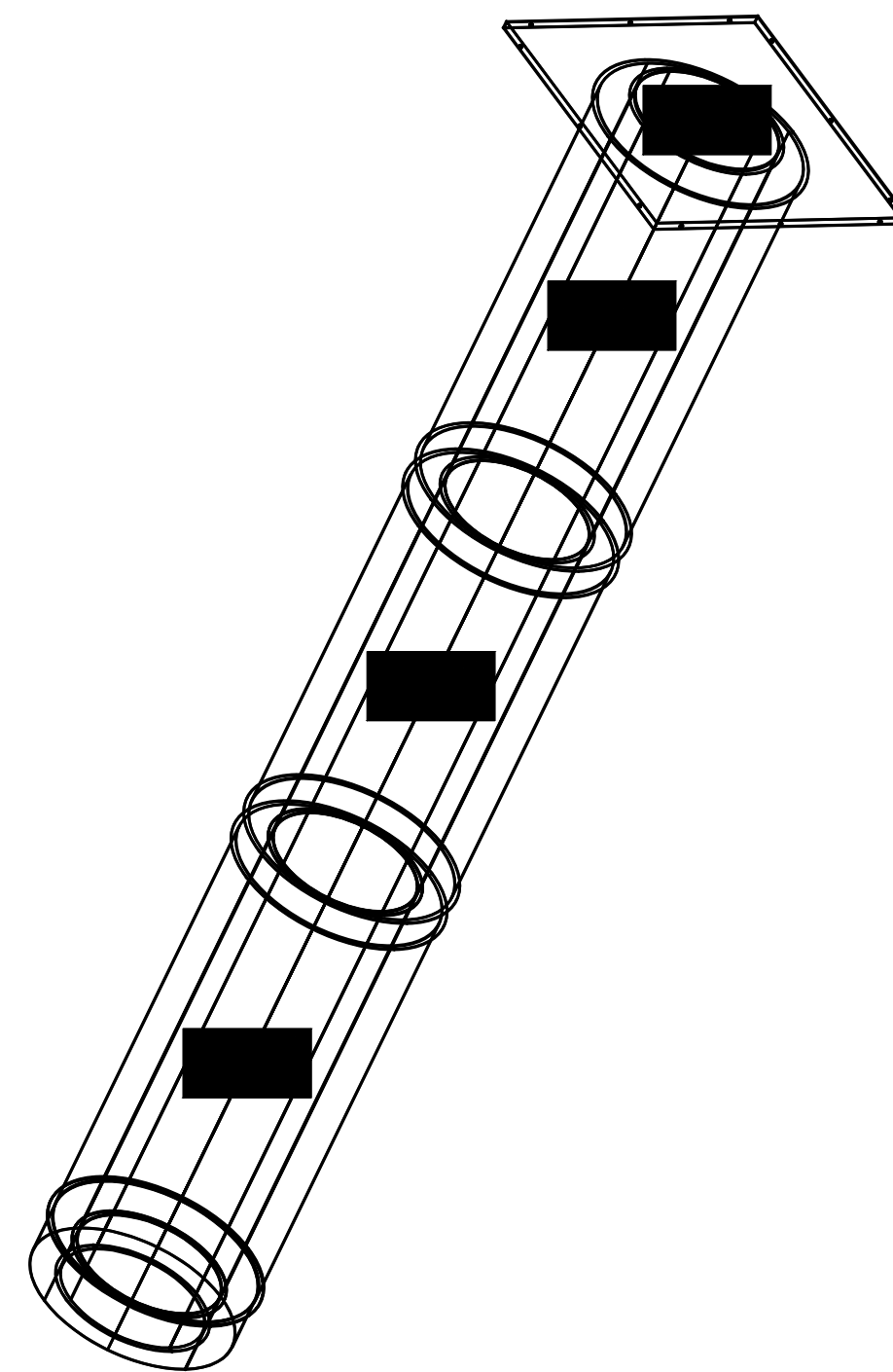
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DUCTWORK #1 PARTS - JOB#6067442 DOUBLE WALL

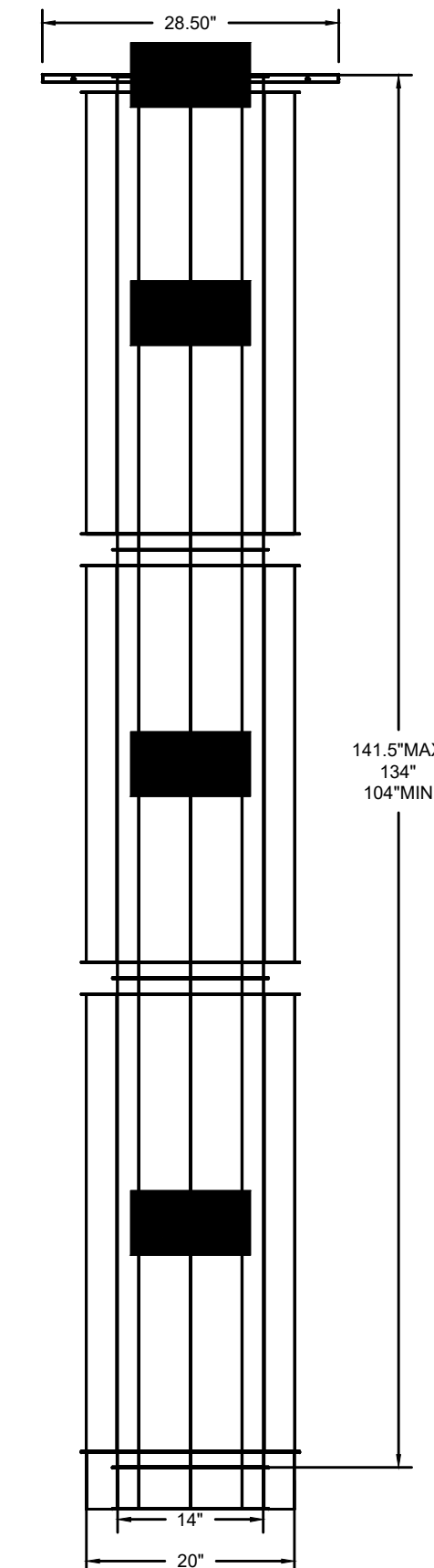
TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1447DWLT-3Z-S	1725				-0.018	76.70	1613.64	1	DOUBLE WALL DUCT - 14" INNER DUCT, 47" LONG - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER SHELL.
P2	DW1447DWAJD-3Z-S	1725				-0.016	109.38	1613.64	1	DOUBLE WALL ADJUSTABLE DUCT - 14" INNER DUCT - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11' / MAX LENGTH = 48.5' / ADJUSTMENT = 30.5' / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P3 ASSEMBLED W/P4	DW144550DWLTP-3Z-S	1725				-0.018	74.89	1613.64	1	DOUBLE WALL DUCT - 14" INNER DUCT, 45.5" LONG - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE.
P4 ASSEMBLED W/P3	DW2814TPDBEX	1725					9.00	1613.64	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 28" CURB TO 14" DUCT, 16 GA ALUMINIZED. TRANSITION PLATE OD IS 28.5" DESIGNED FOR USE WITH EXHAUST FAN. NON-STANDARD PART.
SYSTEM AT P4						-0.763	0.00			
	3M-2000PLUS						0.80		1	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
TOTAL WEIGHT							270.77			

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

DUCTWORK #1 SE VIEW



DUCTWORK #1 FRONT VIEW



REVISIONS		
DESCRIPTION	DATE	

CAPTIVEAIRE
Inland Empire
www.captiveaire.com
3002 Dow Avenue, Suite 202, Tustin, CA, 92780 PHONE: (951) 231-5102 EMAIL: reg102@captiveaire.com

Sabor Piri Piri - National City rev.3
NATIONAL CITY, CA, 91950

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SCALE: 3/4" = 1'-0"
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SHEET NO. 10

REV	DESCRIPTION	DATE

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MRPI
ENGINEERING
CONSULTANTS INC.



TITLE:
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M4.8

REV	DESCRIPTION	DATE
△	PC COMMENTS	07-19-23

PLUMBING GENERAL NOTES

- THE ARCHITECTURAL DESIGN DRAWINGS SHALL INDICATE THE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.
- THE ARCHITECTURAL DESIGN DRAWINGS SHALL INDICATE ALL ACCESSIBLE FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
- HOT WATER SUPPLY AND DRAIN PIPING AT LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE COVERED. ALL WATER CLOSET FLUSHING LEVERS SHALL BE TO THE WIDE SIDE OF THE STALL.
- TRAPS FOR ALL LAVATORIES AND SINKS SHALL TRAP STRAIGHT BACK TO WALL WITH ALL REQUIRED OFFSETS HAPPENING WITHIN THE WALL.
- ALL PLUMBING WORK SHALL BE INSTALLED TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING.
- ALL CLEANOUTS SHALL BE INSTALLED WHERE EASILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUTS LOCATIONS WITH ALL EQUIPMENT, CABINETS AND OTHER OBSTRUCTION PRIOR TO ANY INSTALLATION. CLEANOUTS MUST BE EXTENDED TO FLUSH WITH FINISHED WALL.
- ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKES.
- ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON PLANS.
- UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH VALVE AND PRIOR TO ALL EQUIPMENT CONNECTIONS.
- ALL WORK AND MATERIAL SHALL BE IN COMPLIANCE WITH AND PERFORMED AND INSTALLED IN CONFORMANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE INSPECTING AUTHORITY. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THIS PROJECT:

BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
2022 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE, PART 7, TITLE 24 C.C.R.
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.
2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
2022 TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2022 NFPA 13 – AUTOMATIC SPRINKLER SYSTEMS
- BEFORE FABRICATION OR INSTALLATION THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT AND EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF SPECIFICATIONS. ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN THE FIELD.
- ALL SEWER AND VENT PIPING SHALL A MINIMUM 1/4" PER FOOT (2%) SLOPE PER CPC SEC. 708.
- ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTERS OR OTHER EQUIPMENT LOCATED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL. ALL PIPING & DEVICES SHALL BE INSTALLED ABOVE CEILING, WITHIN WALLS, BELOW FLOORS, OR OTHERWISE CONCEALED. EXCEPT PIPING AND DEVICES INSTALLED IN MECHANICAL ROOMS AND OTHER UNFINISHED SPACES.
- ALL PLUMBING FIXTURES AND EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA STATE ENERGY COMMISSION TO COMPLY WITH EFFICIENCY STANDARDS PER SECTION 110 OF THE TITLE-24 REGULATIONS.
- ALL HOT WATER SUPPLY & RETURN PIPING SHALL BE INSULATED. INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50 PER CMC SEC. 12.1.2.1.8 SEE SPECIFICATION FOR OTHER REQUIREMENTS.
- PIPING THROUGH FIRE RATED WALLS SHALL BE PROTECTED PER U.L. FIRE RESISTANCE SYSTEM NO. WL1001. THE ARCHITECTURAL DESIGN DRAWINGS SHALL INDICATE ALL RATED WALL LOCATIONS.
- SLEEVES SHALL BE PROVIDED TO PROTECT THROUGH CONCRETE FLOORS.
- SEISMIC BRACING AND ANCHORAGE REQUIREMENTS ARE AS FOLLOWS:

A. THE SEISMIC ANCHORAGE FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE DESIGNED TO WITHSTAND A LATERAL FORCE:

1. CALCULATED AS SPECIFIED IN SECTION 1632A AND TABLE 16A-0 OF THE VOL. 2, TITLE 24, 2022 CBC.

B. THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED IN PART 2, TITLE 24, 2022 CBC:

1. EQUIPMENT WEIGHING LESS THAN 400 LBS. SUPPORTED DIRECTLY ON FLOOR OR ROOF.
2. FURNITURE REQUIRED TO BE ATTACHED IN ACCORDANCE WITH PART 2, TITLE 24, C.C.R.
3. TEMPORARY OR MOBILE EQUIPMENT.
4. EQUIPMENT WEIGHING LESS THAN 20 LBS. SUPPORTED BY VIBRATION ISOLATORS.
5. EQUIPMENT WEIGHING LESS THAN 20 LBS. SUSPENDED FROM A ROOF OR HUNG FROM A WALL.
- THE PLUMBING CONTRACTOR SHALL PROVIDE THE WATER & SEWER SYSTEMS TO A POINT OF CONNECTION 5'-0" OUTSIDE OF THE BUILDING. PIPING BEYOND THIS POINT IS SPECIFIED UNDER ANOTHER SECTION OF THE SPECIFICATIONS AND SHALL BE AS SHOWN ON THE CIVIL DRAWINGS. FINAL CONNECTIONS TO SITE PIPING SHALL BE BY THE PLUMBING CONTRACTOR.
- WATER HAMMER ARRESTERS SHALL BE PROVIDED WHERE REQUIRED AND NECESSARY FOR AND TO ALL FIXTURES, EQUIPMENT OR APPLIANCES WITH QUICK CLOSING VALVE AND SHALL BE OF TYPE SPECIFIED.
- ALL PIPE SIZES SHALL BE THE SAME AS THE UPSTREAM PIPE SIZES UNLESS OTHERWISE INDICATED ON PLAN.
- CLEANOUT SHALL BE PROVIDED AS PER CPC SECTION 707.
- NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.
- THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS AND NECESSARY OFFSETS OF PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD EFFECT THE SYSTEM PERFORMANCE OR INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE SUBMITTED PRIOR TO INSTALLATION OF THE ITEMS CONCERNED.
- CONTRACTOR SHALL SIZE ALL SERVICE PIPING AND EQUIPMENT TO ACCOMMODATE FUTURE EXPANSION AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
- PROVIDE COMPLETE CONDENSATE DRAIN PIPING FOR ALL AC UNITS AND DISCHARGE CONDENSATE TO AN APPROVED RECEPTOR.
- ALL LAYOUTS, PIPE SIZES, FIXTURE & EQUIPMENT SELECTIONS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL PROVIDE A COMPLETE PLUMBING SYSTEM. THE DESIGN, CALCULATIONS, FIXTURE, TRIM, EQUIPMENT AND MATERIALS SELECTIONS & DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL AS SPECIFIED.
- INSULATION THICKNESS AND R-VALUES SHALL EXCEED THE REQUIREMENTS OF TITLE 24 BY AT LEAST 20 PERCENT OR NEXT LARGER STANDARD SIZE, WHICH EVER IS GREATER. PIPE INSULATION SHALL BE NOT LESS THAN 1.0 INCH THICK, NOT INCLUDING THE MOISTURE BARRIER OR EXTERIOR JACKET THICKNESS.
- NO GAS & WATER PIPE SHALL BE INSTALLED UNDER BUILDING SLAB. GAS & WATER PIPES SHALL RISE TIGHT AGAINST EXTERIOR WALL UP TO MIN. 18" AFF AND PENETRATE INTO BUILDING. PROVIDE SHUT-OFF VALVE AND REGULATOR ABOVE GRADE AT INCOMING GAS RISERS.
- UNDERGROUND INSTALLATION OF WATER SHALL BE IN ACCORDANCE WITH CPC 609.2. INSTALLATION OF BUILDING SEWERS SHALL BE IN ACCORDANCE WITH CPC 718.3 & PROVISIONS UNDER CPC 720.1. GAS PIPING INSTALLATION SHALL BE IN ACCORDANCE WITH CPC 1210.
- CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BID. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES (INCLUDING MECHANICAL, CIVIL, STRUCTURAL, AND ELECTRICAL) PRIOR TO BID TO INSURE AN ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING DESCRIPTION CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.
- ALL PLUMBING SYSTEM COMPONENTS SHALL MEET OR EXCEED THE REQUIREMENTS OF C.B.C. (CALIFORNIA EDITION), CMC, CPC, NEC, NFPA, ASTM, ANSI, AND ALL LOCAL AND STATE CODE REQUIREMENTS.
- ALL PLUMBING EQUIPMENT LISTED IN (CCR) SECTION 113 OF THE 2022 CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 1, ENERGY EFFICIENCY STANDARDS MUST BE CERTIFIED BY THE MANUFACTURER TO MEET OR EXCEED SPECIFICATIONS OR EFFICIENCIES ADOPTED BY THE CEC.
- ALL PIPING EXPOSED TO WEATHER SHALL BE METALLIC.
- ALL FERROUS PIPING EXPOSED TO WEATHER SHALL BE GALVANIZED.
- ALL PIPES, FITTINGS AND FIXTURES USED TO CONVEY POTABLE WATER SHALL BE LEAD FREE IN COMPLIANCE WITH CALIFORNIA AB 1953.
- ALL INSULATING MATERIALS INSTALLED MUST BE CERTIFIED BY CALIFORNIA ENERGY COMMISSION TO MEET C.E.C. ENERGY EFFICIENCY STANDARDS (E.E.S.) SECTION 120.3 AND SECTION 1201.3.2.1.1 OF CMC (CALIFORNIA EDITION).
- ALL INSULATION INSTALLED SHALL MEET THE FLAME SPREAD AND SMOKE DENSITY REQUIREMENTS OF SECTION 719 OF THE 2022 CBC.
- ALL FIXTURES REQUIRED TO BE ACCESSIBLE SHALL BE INSTALLED AS PER THE LATEST REQUIREMENTS OF TITLE 24 AND ADA (AMERICANS WITH DISABILITIES ACT).
- CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT (OTHER THAN THOSE LISTED IN INFORMATION BULLETIN 103).
- ALL HEATERS FOR DOMESTIC HOT WATER MUST BE CERTIFIED BY THE MANUFACTURER TO MEET THE SPECIFICATIONS OR EFFICIENCIES AS ADOPTED BY THE CEC. IN ACCORDANCE WITH SECTION 110.1.1 OF THE CCR AND ENERGY EFFICIENCY STANDARDS RESIDENTIAL NON-RESIDENTIAL.
- TANKLESS WATER HEATERS SHALL BE NATIONALLY LISTED AND BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS THAT WERE APPROVED AS PART OF THEIR LISTING. THE GAS PIPING SERVING THIS APPLIANCE MUST BE SIZED IN COMPLIANCE WITH THE WATER HEATER'S LISTED INSTALLATION INSTRUCTIONS AND THE 2022 CALIFORNIA PLUMBING CODE.
- A WATER HEATER PRESSURE AND TEMPERATURE RELIEF DRAIN THAT TERMINATES OUTSIDE THE BUILDING SHALL COMPLY WITH SECTION 608.5 OF CPC.
- WATER HEATER SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION PER SECTION 507.2 OF CPC.
- WATER HEATER SHALL COMPLY WITH SECTION 608.3 OF CPC, FOR THERMAL EXPANSION REQUIREMENTS.
- LAVATORY FAUCETS IN COMMON AND PUBLIC USE AREAS SHALL NOT EXCEED 0.5 GALLONS PER MINUTE AT 60 PSI.
- RESIDENTIAL LAVATORY FAUCETS SHALL BE 1.2 GPM MAXIMUM.
- METERING FAUCETS SHALL BE 0.25 GPC MAXIMUM.
- KITCHEN FAUCETS AND WASH FOUNTAINS SHALL BE 1.5 GPM MAXIMUM.
- ELECTROMECHANICAL HYDRAULIC TYPE) SHALL BE 1.28 GPM MAXIMUM.
- URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS AND RESTORATION OF FLOOR FINISHES DUE TO TRENCHING. FINISHES TO MATCH ARCHITECTURAL PLAN.
- CONTRACTOR SHALL VERIFY EXACT POINT OF CONNECTION AND INVERT ELEVATIONS OF BURIED PIPING PRIOR TO START OF WORK.
- CONTRACTOR SHALL SPECIFY PIPE SEALS FOR ALL PIPE LINES PENETRATING THROUGH FLOOR SLAB.
- EXISTING CONDITION ARE BASED ON "AS-BUILT" DRAWINGS AND LIMITED FIELD VERIFICATIONS. THE CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE PROJECT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY EXTRAS DUE TO CONTRACTOR'S FAILURE TO VISIT THE PROJECT SITE & DETERMINATION OF EXISTING CONDITIONS PRIOR TO SUBMITTING THE BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/OWNER/ENGINEER FOR SOLUTION.
- CPC 906.1, ABS/PVC VENT TERMINATIONS UP THROUGH THE ROOF EXPOSED TO SUNLIGHT ARE REQUIRED TO BE PROTECTED BY WATER BASED SYNTHETIC LATEX PAINTS.

CALGREEN BUILDING STANDARDS CODE 2022

- CHAPTER 3 – GREEN BUILDING**
SECTION 301 GENERAL
301.1 SCOPE. BUILDINGS SHALL BE DESIGNED TO INCLUDE THE GREEN BUILDING MEASURES SPECIFIED AS MANDATORY IN THE APPLICATION CHECKLISTS CONTAINED IN THIS CODE. VOLUNTARY GREEN BUILDING MEASURES ARE ALSO INCLUDED IN THE APPLICATION CHECKLISTS AND MAY BE INCLUDED IN THE DESIGN AND CONSTRUCTION OF STRUCTURES COVERED BY THIS CODE, BUT ARE NOT REQUIRED UNLESS ADOPTED BY A CITY, COUNTY, OR CITY AND COUNTY AS SPECIFIED IN SECTION 101.7.
- SECTION 303 PHASED PROJECTS**
303.1 PHASE PROJECTS. FOR SHELL BUILDING AND OTHERS CONSTRUCTED FOR FUTURE TENANT IMPROVEMENTS, ONLY THOSE CODE MEASURES RELEVANT TO THE BUILDING COMPONENTS AND SYSTEMS CONSIDERED TO BE NEW CONSTRUCTION (OR NEWLY CONSTRUCTED) SHALL APPLY.
- 303.1.1 TENANT IMPROVEMENTS. THE PROVISIONS OF THIS CODE SHALL APPLY ONLY TO THE INITIAL TENANT OR OCCUPANT IMPROVEMENTS TO A PROJECT.
- CHAPTER 5 – NON-RESIDENTIAL MANDATORY MEASURES**
DIVISION 5.2 – ENERGY EFFICIENCY
SECTION 5.201 GENERAL
5.201.1 SCOPE [BSC-CG] CALIFORNIA CODE [DGA-SS]. FOR THE PURPOSES OF MANDATORY ENERGY EFFICIENCY STANDARDS IN THIS CODE, THE CALIFORNIA ENERGY COMMISSION SHALL CONTINUE TO ADOPT MANDATORY BUILDING STANDARDS.
- DIVISION 5.3 – WATER EFFICIENCY AND CONSERVATION**
SECTION 5.301 GENERAL
5.301.1 SCOPE
THE PROVISIONS OF THIS CHAPTER SHALL ESTABLISH THE MEANS OF CONSERVING WATER USED INDOORS, OUTDOORS AND IN WASTEWATER CONVEYANCE.
- 5.303.2 RESERVED.**
5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS.
PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCET AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:
5.303.3.1 WATER CLOSET.
THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSET SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSET SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATER SENSE SPECIFICATION FOR TANK-TYPE TOILETS.
NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.
5.303.3.4 FAUCETS AND FOUNTAINS.
5.303.3.4.1 NON-RESIDENTIAL LAVATORY FAUCETS.
LAVATORY FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.5 GALLONS PER MINUTES AT 60 PSI.
5.303.4.2 KITCHEN FAUCETS
KITCHEN FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF MORE THAN 1.8 GALLONS PER MINUTES AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTES AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTES AT 60 PSI.
5.303.4.3 WASH FOUNTAINS.
WASH FOUNTAIN SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTES/20[RIM SPACE (INCHES) AT 60 PSI].
5.303.4.4 METERING FAUCETS.
METERING FAUCETS SHALL NOT DELIVER MORE THAN 0.20 GALLONS PER CYCLE.
5.303.4.5 METERING FAUCETS FOR WASH FOUNTAINS.
METERING FAUCETS FOR WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.20 GALLONS PER CYCLE/20 [RIM SPACE (INCHES) AT 60 PSI].
NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.
5.303.6 STANDARD FOR PLUMBING FIXTURES AND FITTINGS.
PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLIANCE STANDARD REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUMBING CODE IN CHAPTER 6 OF THIS CODE.
- 28. DISINFECTION**
A. DISINFECT DOMESTIC WATER PIPING AS REQUIRED BY THE BUILDING CODE.
B. DISINFECT ALL POTABLE WATER PIPING SYSTEMS AT THE COMPLETION OF THE PROJECT PRIOR TO BUILDING OCCUPANCY AS FOLLOWS:

1. FLUSH THOROUGHLY WITH POTABLE WATER.

2. FILL SYSTEM WITH WATER-CHLORINE SOLUTION CONTAINING 50 PARTS PER MILLION OF CHLORINE AND ALLOW TO STAND FOR 24 HOURS.

3. FILL SYSTEM WITH WATER-CHLORINE SOLUTION CONTAINING 200 PARTS PER MILLION OF CHLORINE AND ALLOW TO STAND FOR 3 HOURS.

4. FLUSH SYSTEM WITH POTABLE WATER TO REMOVE ALL CHLORINE. PERFORM ANY ADDITIONAL TEST OR TREATMENT AS REQUIRED BY THE LOCAL AUTHORITY.

PLUMBING SPECIFICATIONS

- GENERAL PROVISIONS** – THE GENERAL CONDITIONS, SUPPLEMENTS AND AMENDMENTS SHALL GOVERN THIS DIVISION OF THE SPECIFICATIONS.
- PROJECT REQUIREMENTS** – PROVIDE ALL ITEMS, MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THE WORK OR OPERATIONS MENTIONED HEREIN, OR INDICATED ON THE DRAWINGS AND REASONABLY INFERRED THEREIN, AS REQUIRED TO MAKE A COMPLETE AND WORKING SYSTEM.
- INTENT** – WORK SHALL BE DONE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AND THEIR INTENT, COMPLETE WITH ALL NECESSARY COMPONENTS, INCLUDING THOSE NOT NORMALLY SHOWN OR CALLED FOR, AND SHALL BE READY FOR OPERATION BEFORE ACCEPTANCE.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN IN THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATION OR CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO MANUFACTURERS INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE INSTALLATION AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORMS TO MANUFACTURERS INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
- ANY REFERENCE TO THE DESIGN AUTHORITY SHALL MEAN MR ENGINEERING CONSULTANTS, INC.
- THE WORK "PROVIDE" SHALL MEAN "SUPPLY AND INSTALL" UNLESS OTHERWISE INDICATED.
- GOVERNING REGULATIONS** – THE WORK UNDER PLUMBING SCOPE OF WORK, SHALL CONFORM, BUT NOT LIMITED TO THE REQUIREMENTS OF THE FOLLOWING CODES, REGULATIONS AND STANDARDS:

A. 2022 EDITIONS OF THE CALIFORNIA BUILDING CODE, INCLUDING BUT NOT LIMITED TO THE MECHANICAL, PLUMBING, FIRE AND ENERGY CODES.

B. OSHA REGULATIONS
- PERMITS** – OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES THEREFORE AND COMPLY WITH ALL LOCAL AND STATE REGULATIONS, CODES AND BY-LAWS APPLICABLE TO THE WORK.
- RESPONSIBILITY** – VISIT THE SITE BEFORE SUBMITTING A BID AND EXAMINE ALL LOCAL AND EXISTING CONDITIONS ON WHICH THE WORK IS DEPENDENT.
- NO CONSIDERATION WILL BE GRANTED FOR ANY MISUNDERSTANDING OF WORK TO BE DONE RESULTING FROM FAILURE TO VISIT THE SITE.
- WHEN THE CONTRACT DOCUMENTS DO NOT CONTAIN SUFFICIENT INFORMATION FOR THE PROPER SELECTION OF EQUIPMENT FOR BIDDING, NOTIFY THE DESIGN AUTHORITY DURING THE BIDDING PERIOD. IF CLARIFICATION CANNOT BE OBTAINED, ALLOW FOR THE MOST EXPENSIVE ARRANGEMENT. FAILURE TO DO THIS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO SUPPLY THE INTENDED EQUIPMENT AND OR INSTALLATION.
- CHECK DRAWINGS OF ALL TRADES AND SITE SURVEY TO VERIFY SPACE AVAILABILITY FOR THE INSTALLATION. COORDINATE WORK WITH ALL TRADES AND MAKE CHANGES TO FACILITATE SATISFACTORY INSTALLATION. MAKE NO DEVIATIONS TO THE DESIGN INTENT INVOLVING EXTRA COST TO THE OWNER WITHOUT DESIGN AUTHORITY WRITTEN APPROVAL.
- WORKMANSHIP** – WORKMANSHIP SHALL BE IN ACCORDANCE WITH WELL ESTABLISHED PRACTICE AND STANDARDS ACCEPTED AND RECOGNIZED BY DESIGN AUTHORITY AND THE TRADE.
- EMPLOY ONLY TRADESMEN HOLDING VALID TRADE QUALIFICATION CERTIFICATES. TRADESMEN SHALL PERFORM ONLY WORK THAT THEIR CERTIFICATE PERMITS.
- DRAWING AND MEASUREMENTS** – DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO INDICATE THE SCOPE AND GENERAL ARRANGEMENT OF WORK. DO NOT SCALE DRAWINGS.
- TAKE FIELD MEASUREMENTS WHERE EQUIPMENT AND MATERIAL DIMENSIONS ARE DEPENDENT UPON BUILDING DIMENSIONS.
- SUBMITTALS** – SUBMIT THREE SETS OF ALL EQUIPMENT AND RELATED MATERIAL FOR APPROVAL PRIOR TO ORDERING.
- RECORD DRAWINGS** – MAINTAIN ONE CONTRACT DRAWING, WHITE PRINT, ON SITE, SOLELY FOR THE PURPOSE OF RECORDING, IN RED, ANY CHANGES AND/OR DEVIATION FROM THE CONTRACT DRAWINGS AS IT OCCURS.
- AT THE COMPLETION OF THE PROJECT, CERTIFY THE ABOVE-MENTIONED DRAWINGS AS BEING ACCURATE AND COMPLETE BY LABELING IN THE LOWER RIGHT HAND CORNER IN LETTERS OF AT LEAST 1/2 INCH HIGH AS FOLLOWS: "AS-BUILT DRAWINGS, DATED ----". DELIVER TO DESIGN AUTHORITY.
- OPERATING AND MAINTENANCE MANUALS** – PREPARE INSTRUCTION MANUALS WHICH INCLUDE EQUIPMENT MANUFACTURER'S OPERATING AND MAINTENANCE BULLETINS, AND A REPORT ON THE TESTING AND BALANCING. SUBMIT THREE (3) COPIES TO DESIGN AUTHORITY.
- EXISTING SERVICES** – PROTECT ALL EXISTING SERVICES AND MAKE GOOD ANY DAMAGE CAUSED BY THE WORK IN THIS CONTRACT.
- ARRANGEMENT AND ALIGNMENT OF PIPING.**

A. PIPING SHALL BE GROUPED (WHEREVER PRACTICAL) INSTALLED IN STRAIGHT PARALLEL LINES ALIGNED IN A UNIFORM DIRECT MANNER. CHANGES IN DIRECTION OF PIPING SHALL BE MADE WITH FITTINGS.

B. PIPE LINES SHALL BE GUIDED, SUPPORTED AND ANCHORED IN SUCH MANNER THAT PIPE LINES SHALL NOT SAG OR BUCKLE.
- JOINTS:**

A. PIPING TO EQUIPMENT SHALL BE CONNECTED WITH UNION FOR DISMANTLING AND REMOVAL.

B. PIPING SHALL BE REAMED AFTER CUTTING. JOINTS WHEN COMPLETE SHALL BE THOROUGHLY CLEANED OF ALL EXCESS PIPE JOINT MATERIALS.

C. PROVIDE DIELECTRIC FITTINGS BETWEEN DISSIMILAR PIPING CONNECTIONS.
- HANGERS AND SUPPORTS:**

A. PIPING EQUIPMENT, ETC., SHALL BE PROPERLY SUPPORTED WITH THE USE OF APPROVED TYPE CLEVIS AND/OR TRAPEZE HANGERS SPACED 5'-0" ON CENTERS FOR CAST IRON PIPING AND 8'0" ON CENTERS FOR WATER PIPING.

B. PIPING AND EQUIPMENT SHALL BE SUPPORTED FROM WALLS, JOISTS OR STRUCTURAL STEEL GIRDERS ONLY.
- PLUMBING FIXTURES:**

A. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL FIXTURES INCLUDED IN THE CONTRACT FROM DAMAGE CAUSED BY ACIDS, BUILDING MATERIALS, TOOLS, EQUIPMENT, ETC. UPON COMPLETION OF THE CONTRACT, OR WHEN DIRECTED, PLUMBING CONTRACTOR SHALL CLEAN ALL FIXTURES TO THE SATISFACTION OF THE DESIGN AUTHORITY.

B. WHERE FIXTURES ARE DAMAGED, SAID FIXTURES SHALL BE REPLACED BY THE PLUMBING CONTRACTOR IMMEDIATELY UPON NOTIFICATION.

C. ALL EQUIPMENT FURNISHED BY OWNERS THAT REQUIRE PLUMBING CONNECTION SHALL BE INSTALLED BY THE PLUMBING CONTRACTOR. PROVIDE SHUT-OFF VALVE ON WATER SUPPLY WERE REQUIRED BY CODE.

D. EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.

E. FIXTURES SHALL BE SECURED WITH MOUNTING BOLTS FROM CARRIERS OR HANGERS.

F. FIXTURES SHALL BE INSTALLED LEVEL, PLUMB.

G. FITTINGS SHALL BE NEATLY INSTALLED, MOUNTED TO FIXTURES PRIOR TO INSTALLATION OF FIXTURES. PROVIDE NON-HARDENING PUTTY BETWEEN FITTINGS AND FIXTURE SURFACES.

H. FITTINGS SHALL BE SECURED WITHOUT MARRING OR DAMAGING CHROME PLATING.
- INSULATION:**

A. DOMESTIC HOT WATER PIPING INSULATION SHALL BE COMPLIANCE TO CEC TABLE 120.3-A.

B. THE FIRST 5 FEET OF HOT AND COLD WATER PIPES FROM THE STORAGE TANKS.

C. ALL PIPING WITH A NOMINAL DIAMETER OF 3/4" OR LARGER.

D. ALL PIPING ASSOCIATED WITH A DOMESTIC HOT WATER RE-CIRCULATION SYSTEM REGARDLESS OF THE PIPE DIAMETER.

E. PIPING FROM THE HEATING SOURCE TO STORAGE TANK OR BETWEEN TANKS.

F. PIPING BURIED BELOW GRADE.

G. INSULATION SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

H. INSTALLATION OF INSULATIONS SHALL BE DONE ONLY AFTER PIPING ARE TESTED AND DETERMINED TO BE FREE FROM LEAKS.

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	WBFP	WATER BACKFLOW PREVENTER
	POC/POD	POINT OF CONNECTION / POINT OF DISCONNECTION
	SS	SANITARY SEWER PIPING
	GW	GREASE WASTE PIPING
	V	VENT PIPING
	CW	DOMESTIC COLD WATER PIPING
	HWS	DOMESTIC HOT WATER SUPPLY PIPING
	HWR	DOMESTIC HOT WATER RETURN PIPING
	CD	CONDENSATE DRAIN PIPING
	C	PIPE DOWN
	O	PIPE UP
	UB	PIPE BRANCH – TOP CONNECTION
	LB	PIPE BRANCH – BOTTOM CONNECTION
	SB	PIPE BRANCH – SIDE CONNECTION
	PC	PIPE CAP
	SL	PIPE SLEEVE
	DF	DIRECTION OF FLOW
	DS	PIPE SLOPE & DIRECTION OF FALL
	T	THERMOMETER
	WA	WATER HAMMER ARRESTOR
	WB	PIPE BREAK
	WC	WALL CLEANOUT
	CC	PIPE CONTINUATION
	FCO/COGT	FLOOR CLEANOUT OR CLEANOUT TO GRADE
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	SOV	SHUT OFF VALVE, PLAN / RISER
	PRV	PRESSURE REDUCING VALVE
	GV	GAS VALVE /PLUG COCK
	PG	PRESSURE GAUGE
	CSV	CIRCUIT SETTER/BALANCING VALVE
	BLV	BALANCING VALVE
	SOV	SOLENOID VALVE
	SGV	SEISMIC GAS SHUT-OFF VALVE
	BV	BALL VALVE
	CV	CHECK VALVE
	PG	PRESSURE GAUGE
	TMV	THERMOSTATIC MIXING VALVE
	RV	SAFETY RELIEF VENT
	U	PIPE UNION
	H	HOSE BIBB
	H	HOSE END GATE VALVE WITH HOSE CAP
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	ARCH	ARCHITECT OR ARCHITECTURAL
	B/C	BELOW COUNTER
	B/G	BELOW GRADE
	B/S	BELOW SLAB
	C.I.	CAST IRON
	CCO	CEILING CLEAN OUT
	DWG/DWGS	DRAWING/DRAWINGS
	DN	DOWN
	EA	EACH
	ELECT	ELECTRICAL
	ELEV	ELEVATION
	F	DEGREES FAHRENHEIT
	F/A – F/B	FROM ABOVE – TO BELOW
	FFE	FINISHED FLOOR ELEVATION
	FH	FUME HOOD
	FT	FEET
	FT HD	FEET OF HEAD
	GPM	GALLONS PER FLUSH
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HD	HEAD
	H/L – H/L	HIGH LEVEL – LOW LEVEL
	IPS	IRON PIPE SIZE
	I.E.	INVERT ELEVATION
	MAX	MAXIMUM
	MAU	MAKE AIR UNITS
	MECH	MECHANICAL
	MIN	MINIMUM
	MTD	MOUNTED
	NTS	NOT TO SCALE
	PVC	POLYVINYL CHLORIDE PIPE
	PSI	POUNDS PER SQUARE INCH
	P&TRV	PRESSURE AND TEMPERATURE RELIEF VALVE
	QTY	QUANTITY
	SOV	SHUT OFF VALVE
	SQ FT	SQUARE FEET
	T/A – T/B	TO ABOVE / TO BELOW
	TYP	TYPICAL
	VCP	VITRIFIED CLAY PIPE
	VTR	VENT THRU ROOF

EQUIPMENT IDENTIFICATION SYMBOL EQUIPMENT TYPE
EQUIPMENT IDENTIFIER

SCOPE OF WORK

- PROVIDE PLUMBING WORKS FOR A TENANT IMPROVEMENT PROJECT

DRAWING INDEX

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- P0.3 PLUMBING T-24 FORMS
- P0.4 PLUMBING T-24 FORMS
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- P3.1 PLUMBING SCHEMATIC DIAGRAM
- P4.1 PLUMBING DETAILS
- P4.2 PLUMBING DETAILS

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ENGINEERING CONSULTANTS, INC.



TITLE:

PLUMBING GENERAL NOTES, 2022 CAL GREEN, SPECIFICATION, LEGEND AND SYMBOLS

JOB NO: B2306-AA123
DRAWN: JP
CHECKED: CZ
SCALE: NONE
DATE: 07.19.2023

P0.1

FIXTURE LOAD CALCULATION							
TAG	DESCRIPTION	QTY	WATER SUPPLY FIXTURE UNIT	DRAINAGE FIXTURE UNIT	TOTAL		
					COLD WATER	HOT WATER	SEWER
7	ICE MACHINE	1	1.0	INDIRECT	1.0	--	--
10	HAND SINK	1	2.0	2.0	2.0	1.50	2.0
11	PREP SINK	1	3.0	INDIRECT	3.0	2.25	--
12	3-COMP. SINK	1	6.0	INDIRECT	6.0	4.50	--
13	MOP SINK	1	3.0	3.0	3.0	2.25	3.0
FD	FLOOR DRAIN	1	--	6.0	--	--	6.0
FS	FLOOR SINK	5	--	6.0	--	--	30.0
TOTAL FIXTURE UNIT:					15.0	10.5	41.0
ESTIMATED GPM:					11.0	8.0	--

NOTES:
1. WATER SUPPLY FIXTURE UNITS BASED UPON APPENDIX A, TABLE A103.1, 2022 CALIFORNIA PLUMBING CODE.
2. DRAINAGE FIXTURE UNITS BASED UPON CHAPTER 7, TABLE 702.1, 2022 CALIFORNIA PLUMBING CODE.

PIPE SIZE TABLE							
PIPE SIZE	COLD WATER				HOT WATER		
	GPM	FLUSH TANK FIXTURE UNIT	FLUSH VALVE FIXTURE UNIT	VELOCITY (FT/S)	GPM	FLUSH TANK FIXTURE UNIT	VELOCITY (FT/S)
1/2"	2.22	1.4	--	3.06	2.22	1.4	3.06
3/4"	5.73	6.7	--	3.80	5.73	6.7	3.80
1"	11.45	15.4	--	4.45	11.45	15.4	4.45
1-1/4"	19.76	29.5	--	5.04	19.59	29.2	5.00
1-1/2"	31.01	56.0	14.0	5.59	27.72	48.2	5.00
2"	63.60	193.0	86.8	6.59	48.23	119.9	5.00
2-1/2"	111.55	438.5	305.6	7.50	74.37	246.7	5.00
3"	169.85	747.1	699.0	8.00	106.16	411.8	5.00

NOTES:
1. PRESSURE AVAILABLE IN THE BUILDING PIPING IS ASSUMED TO BE AT LEAST 4.5PSI/100FT. CONTRACTOR TO VERIFY AT SITE.
2. COLD WATER NOT TO EXCEED 8 FEET PER SECOND.
3. HOT WATER NOT TO EXCEED 5 FEET PER SECOND.

(N)STORAGE TYPE WATER HEATER CALCULATION					
TAG	DESCRIPTION	QTY	GPH PER FIXTURE	TOTAL GPH PER FIXTURE	
10	HAND SINK	1	5.0	5.0	
11	PREP SINK	1	5.0	5.0	
12	3-COMP. SINK	1	45.0	45.0	
13	MOP SINK	1	20.0	20.0	
(SINGLE-USE UTENSIL) POSSIBLE MAXIMUM DEMAND (GPH X 80%):					60.0
TEMPERATURE RISE (°F):					60.0
MINIMUM WATER HEATER EFFICIENCY:					0.98
MINIMUM INPUT (kW):					9.0

TABLE 120.3-A PIPE INSULATION THICKNESS						
FLUID TEMPERATURE RANGE (°F)	CONDUCTIVITY RANGE (IN BTU-INCH PER HOUR PER SQUARE FOOT PER °F)	INSULATION MEAN RATING TEMPERATURE (°F)	NOMINAL PIPE DIAMETER (IN INCHES)			
			<1	<1 TO <1.5	<1.5 TO <4	
ABOVE 350	0.32-0.34	250	4.5	5.0	5.0	
251-350	0.29-0.32	200	3.0	4.0	4.5	
201-250	0.27-0.30	150	2.5	2.5	2.5	
141-200	0.25-0.29	125	1.5	1.5	2.0	
105-140	0.22-0.28	100	1.0	1.5	1.5	

NOTE: PIPE INSULATION THICKNESS RANGE (105 - 200°F FLUID TEMPERATURE)

PLUMBING PIPE MATERIAL SCHEDULE				
SERVICE	LOCATION	PIPE MATERIAL	SLOPE	
WATER	ABOVE GRADE	ASTM B88 TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS.	1/32" PER 1'	
	BELOW GRADE	ASTM B88 TYPE "K" HARD DRAWN COPPER, FACTORY INSULATED, WITH WROUGHT COPPER BRAZED JOINT FITTINGS.	1/32" PER 1'	
SEWER AND VENT	ABOVE GRADE	ASTM A888 SERVICE WEIGHT HUBLESS CAST IRON, ALL FITTINGS SHALL BE AS PER CPC.	1/4" PER 1'	
	BELOW GRADE	ABS SCHEDULE 40 (CONFORM TO ASTM D 2321-2000), ALL FITTINGS SHALL BE AS PER CPC.	1/4" PER 1'	
NATURAL GAS	ABOVE GRADE	SCHEDULE 40 GALVANIZED STEEL "BLACK" PIPE. ALL FITTINGS SHALL BE AS PER CPC.	1/4" PER 15'	
	BELOW GRADE	SCHEDULE 40 GALVANIZED STEEL "BLACK" PIPE W/ FACTORY INSTALLED COATING LISTED FOR DIRECT BURIAL. ALL FITTINGS SHALL BE AS PER CPC.	1/4" PER 15'	
CONDENSATE	ABOVE GRADE	ASTM B88 TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS.	1/8" PER 1'	

PLUMBING FIXTURE & EQUIPMENT SCHEDULE										
TAG	DESCRIPTION	MFR	MODEL	WASTE			VENT	WATER		REMARKS
				DIRECT	INDIRECT	TRAP		CW	HW	
1	HOT FOOD STATION	VOLLRATH	T39710-2	--	YES	--	--	--	--	REFER TO OWNER'S EQUIPMENT LIST.
7	ICE MACHINE	AVANTCO	KMC-H-322-A	--	YES	--	--	1/2"	--	REFER TO OWNER'S EQUIPMENT LIST.
10	HAND SINK	REGENCY	600HS12SP	2"	--	2"	1-1/2"	3/4"	3/4"	REFER TO OWNER'S EQUIPMENT LIST.
11	PREP. SINK	REGENCY	600S1181818XLFT	--	YES	--	--	3/4"	3/4"	REFER TO OWNER'S EQUIPMENT LIST.
12	3-COMP. SINK	REGENCY	600S3162018G	--	YES	--	--	3/4"	3/4"	REFER TO OWNER'S EQUIPMENT LIST.
13	MOP SINK	FLORESTONE	MSR-2424	3"	--	3"	2"	3/4"	3/4"	REFER TO OWNER'S EQUIPMENT LIST.
FD	FLOOR DRAIN	ZURN	Z415B	2"	--	2"	1-1/2"	--	--	FLOOR DRAIN - "ZURN" MODEL Z415B, NO-HUB, DURA-COATED CAST IRON BODY, NICKEL BRONZE TOP TYPE 'B' STRAINER WITH TRAP PRIMER CONNECTION.
FS	FLOOR SINK	ZURN	Z1900	3"	--	3"	2"	--	--	FLOOR SINK - "ZURN" MODEL Z1900 SANI-FLOOR RECEPTOR 12"X12"X6" DEEP CAST IRON BODY AND SQUARE, LIGHT DUTY GRATE
19	(N)WATER HEATER	RHEEM	ELD40-TB	--	YES	--	--	1"	1"	"RHEEM"ELD40-TB, ELECTRIC STORAGE-TYPE WATER HEATER, 40 GALLON STORAGE CAPACITY AND 68 GPH RECOVERY RATE AT 60°F RISE, ELECTRICAL CHARACTERISTIC: 10kW/3-PHASE/208V; SIMULTANEOUS WIRING
CP-1	HOT WATER CIRCULATOR PUMP	TACO	113S	--	--	--	--	--	3/4"	HOT WATER CIRCULATOR PUMP - "TACO 113S" HW CIRCULATING IN-LINE CENTRIFUGAL PUMP. CAPACITY 2.0 GPM AT TDH-15 FEET, 1/8 HP, 115 V, 60HZ, 1Ø, INSTALL PER MANUFACTURER'S INSTRUCTIONS, S/S MATERIAL FOR DOMESTIC WATER USE, TEMPERATURE CONTROL.
ET-1	EXPANSION TANK	PROFLO	PFXT5	--	--	--	--	--	--	EXPANSION TANK - "PROFLO" MODEL PFXT5, 2.0 GALLONS
(E)GT	HYDROMECHANICAL GREASE INTERCEPTOR	GB-250	GB-250	4"	--	--	4"	--	--	EXISTING HYDROMECHANICAL GREASE INTERCEPTOR; FLOWRATE: 100 GPM; GREASE CAPACITY: 1751 LBS
TP	TRAP PRIMER	MIFAB	M-500	--	--	--	--	1/2"	--	PRESSURE DROP ACTIVATED, BRASS CONSTRUCTION. PROVIDE WITH MULTIPLE DISTRIBUTION UNIT (IF APPLICABLE), PROVIDE WITH APPROVED ACCESS PANEL.
--	BALANCING VALVE	WATTS	LFCSM-61-S	--	--	--	--	--	3/4"	BALANCING VALVE - BALL-TYPE DESIGN, EXTENDED THROTTLING RANGE, AND LARGE PLATE, MAKE FOR ACCURATE FLOW MEASUREMENT, EVEN IN VERY FLOW RANGES.
WCO	WALL CLEAN OUT	ZURN	ZS1468	SEE RISER			--	--	--	ROUND STAINLESS STEEL WALL ACCESS COVER COMPLETE WITH SECURING SCREW AND BRONZE RAISED HEX HEAD PLUG.
FCO	FLOOR CLEAN OUT	ZURN	Z1400	SEE LAYOUT			--	--	--	ADJUSTABLE FLOOR CLEANOUT. DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUNDSCORRIATED CAST IRON HEAVY-DUTY SECURED TOP ADJUSTABLE TO FINISHED FLOOR.

NOTES:
1. CONTRACTOR MAY SUBSTITUTE APPROVED EQUIVALENTS FOR SPECIFIED FIXTURES WITH OWNER'S AND ENGINEER'S APPROVAL. PROVIDED ALL THE REQUIREMENTS OF THE APPLICABLE CODE ARE MET.
2. CONTRACTOR TO SUBMIT CUT-SHEETS OF ALL FIXTURES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO INSTALLATION.

GAS LOAD SUMMARY				
TAG	QTY	DESCRIPTION	GAS REQUIREMENT (CFH)	
			PER UNIT	TOTAL
6	1	6 GAS BURNER 60"	276.0	276.0
24	2	FRYER	90.0	180.0
TOTAL GAS DEMAND (CFH) :			456.0	
PIPE LENGTH TO MOST REMOTE OUTLET (FT) :			57.0	
FITTINGS FACTOR :			1.5	
TOTAL DEVELOPED LENGTH (FT) :			86	
EQUIVALENT LENGTH (FT) :			100	
INLET PRESSURE (in. W.C) :			7.0	

GAS PIPE SIZES	
PIPE SIZE	CFH
1/2"	50
3/4"	104
1"	195
1-1/4"	400
1-1/2"	600
2"	1160
2-1/2"	1840
3"	3260
4"	6640
5"	12000

SIZING BASED ON 2022 CPC TABLE 1215.2(1)

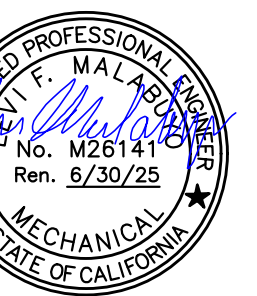
HYDROMECHANICAL GREASE INTERCEPTOR SIZING		
FIXTURES	LOAD (GALLON)	
G107 - FOOD/RETAIL 5		
HAND SINK (9x9x4x1)/(231)0.75	1.05	
PREP. SINK (18x18x14x1)/(231)0.75	14.73	
3-COMP SINK (16x20x12x3)/(231)0.75	37.40	
MOP SINK (24x24x10x1)/(231)0.75	18.70	
FD	2.00	
HOT FOOD STATION	2.00	
G107 - FOOD/RETAIL 5 (SUB-TOTAL LOAD FOR OUR TENANT SPACE)	75.88	
G108 - FOOD/RETAIL 6 (NOT IN SCOPE)		
REMAINING LOAD FOR FUTURE TENANT SPACE (NOT IN SCOPE)	25.00	
TOTAL	174.76	
GREASE INTERCEPTOR SIZE		
1 - MINUTE PERIOD	150 GPM	
2 - MINUTE PERIOD	100 GPM	

NOTE : USE 100 GPM FOR 2 MINUTE PERIOD

MARK	QTY	DESCRIPTION	ELECTRICAL				WATER	WASTE	INPUT	REMARKS
			AMPS	HERTZ	VLTS	PHASE				
1	1	(N) 60" HOT FOOD STATION BRAND: VOLLRATH MODEL: T39710-2	16	60	120	1				60W 24D 49H
2	1	(N) REFRIGERATED PREP TABLE BRAND: BEVERAGE-AIR MODEL: SPE60HC-18	9.6	60	115	1				60W 29.25 D 41.1H
3	1	(N) FREEZER BRAND: AVANTCO MODEL: SS-1F-HC 29"	2.62	60	115	1				29W 32.25D 82.5H
4	1	(N) REFRIGERATOR BRAND: AVANTCO MODEL: SS-2R-HC 54"	6.08	60	115	1				NSF APPROVE
5	1	(N) RICE COOKER BRAND: AVANTCO MODEL: 177RW90			120					NSF APPROVE
6	1	(N) 6 BURNER 60" NATURAL GAS BRAND: COOKING PERFORMANCE GROUP MODEL: S60-GS24-N							276,000	
7	1	(N) ICE MACHINE 22" BRAND: AVANTCO MODEL: KMC-H-322-A	12	60	115		X			
8	1	(N) GLASS DOOR MERCHANDISER 29.5" BRAND: BEVERAGE AIR MODEL: MT23-1B	7	60	115					
9	1	(N) COUNTERTOP HEATED DISPLAY CASE BRAND: AVANTCO MODEL: HDC-36	13.6	60	120					
10	1	(N) WALL MOUNTED HAND SINK BRAND: REGENCY MODEL: 600HS12SP					X	X		9"X9"X4" COMPARTMENT NSF APPROVE
11	1	(N) PREP SINK BRAND: REGENCY MODEL: 600S1181818XLFT					X	X		18"X18"X14" COMPARTMENT INDIRECT DISCHARGE TO FLOOR SINK NSF APPROVE
12	1	(N) THREE COMPARTMENT SINK BRAND: REGENCY MODEL: 600S3162018G					X	X		16"X20"X12" COMPARTMENT INDIRECT DISCHARGE TO FLOOR SINK NSF APPROVE
13	1	(N) MOP SINK BRAND: FLORESTONE MODEL: MSR-2424					X	X		24"X24"X10" COMPARTMENT NSF APPROVE
14	1	(N) FLOOR SINK BRAND: ZURN MODEL: Z1900								NSF APPROVE
15	1	(N) SOAP DISPENSER BRAND: LAVEX MODEL: 712LSD40V								NSF APPROVE
16	1	(N) TOWEL DISPENSER BRAND: LAVEX MODEL: 712LSD40V								NSF APPROVE
17	1	(N) SPLASH GUARD MATERIAL: STAINLESS STEEL HEIGHT: 12"								NSF APPROVE
18	2	(N) COUNTER CUSTOM MADE MODEL: QUARTZ								2 DRY STORAGE UNDERSHELF 24X60 2 TIER NSF APPROVE
19	1	(N) WATER HEATER BRAND: RHEEM MODEL: ELD40TB					X			SEE SPEC SHEET ON THIS SHEET NSF APPROVE
20	1	(N) AIR CURTAIN BRAND: CURTRON MODEL: AP-2-36-1-SS	1/3	120	1					PROVIDED WITH AUTOMATIC DOOR PLUNGER SWITCH NSF APPROVE
21	1	(N) DRAIN BOARD DIMENSIONS: 12X24X36								NSF APPROVE
22	1	(N) EMPLOYEE LOCKERS BRAND: GLOBAL INDUSTRIAL 4 DOOR MODEL: T9F493455GY								NSF APPROVE
23	2	(N) WIRE RACK (14X36) BRAND: REGENCY MODEL: 460EB1848K85								2 DRY STORAGE UNDERSHELF 18X24 6 TIER NSF APPROVE TOTAL DRY STORAGE: 48 LF
24	1	(N) DEEP FRYER BRAND: MAINSTREET EQUIPMENT MODEL: 541FF40N							90,000	15.5"W X 30.25"D X 47 1/8"H NSF APPROVE

REV	DESCRIPTION	DATE
Δ	PC COMMENTS	07-19-23

SABOR PIRI PIRI
TENANT IMPROVEMENT
800 B AVENUE SUITE 804
NATIONAL CITY CA 91950



TITLE:
PLUMBING SCHEDULES
JOB NO: B2306-AA123
DRAWN: JP
CHECKED: CZ
SCALE: NONE
DATE: 07.19.2023

P0.2

REV	DESCRIPTION	DATE
△	PC COMMENTS	07-19-23

STATE OF CALIFORNIA
Domestic Water Heating System
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-PLB-E
This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.

Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 1 of 7)
 Project Address: 800 B AVENUE SUITE 804 NATIONAL CITY CA 91950 Date Prepared: 2023-06-26T17:56:42-04:00

A. GENERAL INFORMATION

01	Project Location (city)	NATIONAL CITY	02	Climate Zone	7
03	Occupancy Types Within Project (select all that apply):				
• Restaurant					

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140./170.2(d) and 141.0(a)/180.1, or 141.0(b)2N/180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03
My project consists of (check all that apply):	System Type ^{1,2}	System Components
<input checked="" type="checkbox"/> New system (DHW system being installed for the first time)	Central System (serving nonresidential spaces)	<input checked="" type="checkbox"/> Equipment <input checked="" type="checkbox"/> Distribution <input checked="" type="checkbox"/> Controls
<input type="checkbox"/> System Alteration (equipment, distribution or controls)		<input type="checkbox"/> Equipment <input type="checkbox"/> Distribution <input type="checkbox"/> Controls

¹FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.
² Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.
³ DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. 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
Domestic Hot Water Equipment	Distribution Systems	Controls	Compliance Results
Table F	Table G	Table H	
Yes	Yes	Yes	

D. EXCEPTIONAL CONDITIONS

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

Generated Date/Time: Documentation Software: Energy Code Ace
 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 115932-0623-0003
 Schema Version: rev 20220101 Report Generated: 2023-06-26 14:56:43

STATE OF CALIFORNIA
Domestic Water Heating System
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CERTIFICATE OF COMPLIANCE NRCC-PLB-E
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Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 3 of 7)
 Project Address: 800 B AVENUE SUITE 804 NATIONAL CITY CA 91950 Date Prepared: 2023-06-26T17:56:42-04:00

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).

Recirculation Loops in Central Systems Serving Dwelling Units or Nonresidential Spaces

	Yes	No	Not Applicable	Requirement
01	●	○	○	Air release valve or vertical pump installation per 110.3(c)4A
02	●	○	○	Check valve or similar located between recirculation pump and water heating equipment to prevent backflow per 110.3(c)4B
03	●	○	○	Hose bibb installed between pump and equipment and isolation valve between hose bibb and equipment per 110.3(c)4C
04	●	○	○	Isolation valves on both sides of the pump per 110.3(c)4D
05	○	○	●	Cold water and recirculation loop piping shall not be connected to the hot water storage tank drain port per 110.3(c)4E
06	●	○	○	Check valve installed on cold water supply between hot water system and next closest tee on cold water supply per 110.3(c)4F
07	○	○	●	DWELLING UNITS ONLY: For central systems serving multiple dwelling units, design includes a recirculation system serving separate dwelling units per 170.2(d) unless building has <=8 dwelling units.
08	○	○	●	DWELLING UNITS ONLY: For heat pump water heating systems, the hot water return from the recirculation loop shall connect to a recirculation loop tank and shall not directly connect to the primary heat pump water heater inlet or the primary thermal storage tanks per 170.2(d)2A.
09	○	○	●	DWELLING UNITS ONLY: For heat pump water heating systems, the fuel source for the recirculation loop tank shall be electricity if auxiliary heating is needed. The recirculation loop heater shall be capable of multi-pass water heating operation per 170.2(d)2B.

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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE NRCC-PLB-E
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Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 2 of 7)
 Project Address: 800 B AVENUE SUITE 804 NATIONAL CITY CA 91950 Date Prepared: 2023-06-26T17:56:42-04:00

E. ADDITIONAL REMARKS

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

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1 / 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

03	04	05	06
System Name	19	Exception to 140.5(c)/170.2(d)3	Exceptions Do Not Apply
07	08	09	10
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)
19	Commercial Electric Storage Water Heater	40	34,121.42
11	12	13	14
Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss
			0.97
15	Maximum Standby Loss		
	0.98		

¹FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3
19	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Isolation valves for instantaneous water heater with input rating >6.8 kBtu/h or 2 kW has been specified per 110.3(c)6
21	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	School buildings < 25,000 ft² and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

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 Schema Version: rev 20220101 Report Generated: 2023-06-26 14:56:43

STATE OF CALIFORNIA
Domestic Water Heating System
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-PLB-E
This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.

Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 4 of 7)
 Project Address: 800 B AVENUE SUITE 804 NATIONAL CITY CA 91950 Date Prepared: 2023-06-26T17:56:42-04:00

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

Mandatory Pipe Insulation All Occupancies

13	<input type="checkbox"/>	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see below) except: <ul style="list-style-type: none"> Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
14	<input checked="" type="checkbox"/>	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: <ul style="list-style-type: none"> Recirculating system piping, including supply and return piping of the water heater The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system Pipes that are externally heated
15	<input checked="" 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 per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
105-140	0.22 - 0.28	100	Minimum Insulation Required			
			1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

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**SABOR PIRI PIRI
 TENANT IMPROVEMENT**
 800 B AVENUE SUITE 804
 NATIONAL CITY CA 91950



TITLE:

**PLUMBING
 T-24 FORMS**

JOB NO: B2306-AA123
 DRAWN: JP
 CHECKED: CZ
 SCALE: NONE
 DATE: 07.19.2023

P0.3

REV	DESCRIPTION	DATE
△	PC COMMENTS	07-19-23

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-PLB-E
Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 5 of 7)
800 B AVENUE SUITE 804 NATIONAL CITY CA 91950 Date Prepared: 2023-06-26T17:56:42-04:00

H. DOMESTIC HOT WATER CONTROLS
This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).

	Yes	No	Not Applicable	Requirement
01	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a).
02	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0.
03	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions.
05	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).
06	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Combustion air positive shut-off shall be provided per 160.4(3) on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Boiler combustion air fans with motor >= 10 hp shall meet one of the following • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume.
08	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Newly installed boilers with an input capacity (d:gte/) 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 115932-0623-0003
Schema Version: rev 20220101 Report Generated: 2023-06-26 14:56:43

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-PLB-E
Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 7 of 7)
Project Address: 800 B AVENUE SUITE 804 NATIONAL CITY CA 91950 Date Prepared: 2023-06-26T17:56:42-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: RAMIL BATIANCLA Documentation Author Signature: *Ramil Batiancla*
Company: www.mrengcon.com Signature Date: 06.25.2023
Address: 39210 STATE ST. STE 106 CEA/HERS Certification Identification (if applicable):
City/State/Zip: FREMONT, CA 94538 Phone: 510-449-4862

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: LEVI F. MALABUYO Responsible Designer Signature: *Levi F. Malabuyo*
Company: MR ENGINEERING CONSULTANTS, INC. Date Signed: 06.25.2023
Address: 39210 STATE ST. STE 106 License: M26141
City/State/Zip: FREMONT, CA 94538 Phone: 510-449-4862

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 115932-0623-0003
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STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-PLB-E
Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 6 of 7)
800 B AVENUE SUITE 804 NATIONAL CITY CA 91950 Date Prepared: 2023-06-26T17:56:42-04:00

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection 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
NRCI-PLB-E - Must be submitted for all buildings

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
There are no forms required for this project.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 115932-0623-0003
Schema Version: rev 20220101 Report Generated: 2023-06-26 14:56:43

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-PLB-E
Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 6 of 7)
800 B AVENUE SUITE 804 NATIONAL CITY CA 91950 Date Prepared: 2023-06-26T17:56:42-04:00

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Form/Title
NRCI-PLB-E - Must be submitted for all buildings

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Schema Version: rev 20220101 Report Generated: 2023-06-26 14:56:43

SABOR PIRI PIRI
TENANT IMPROVEMENT
800 B AVENUE SUITE 804
NATIONAL CITY CA 91950

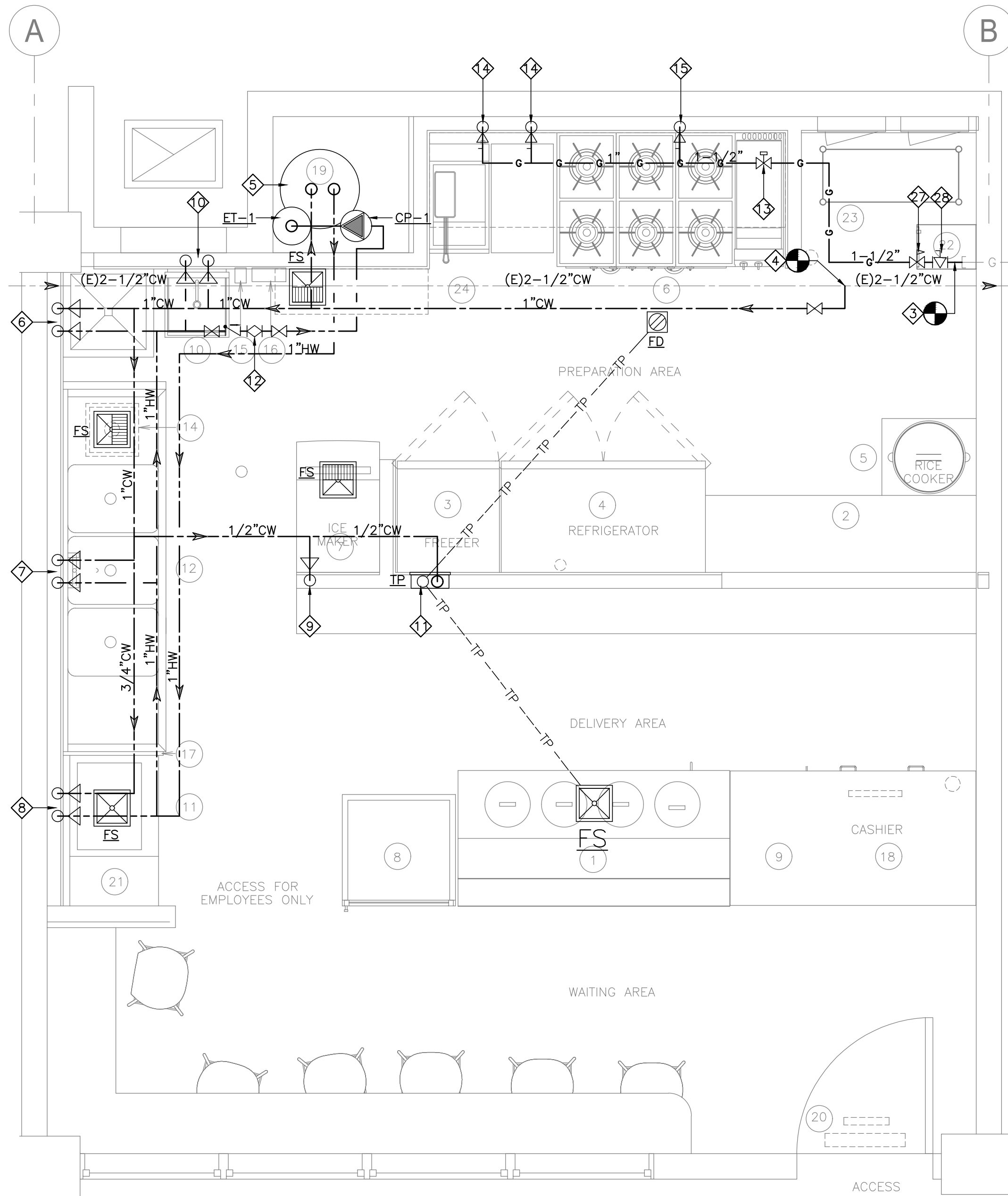
MR ENGINEERING CONSULTANTS, INC.
1171 4th Ave, Ste 401
San Diego, CA 92111
phone: (619) 730-4488
fax: (619) 596-3382
eng@mr-engineers.com
www.mrengcon.com



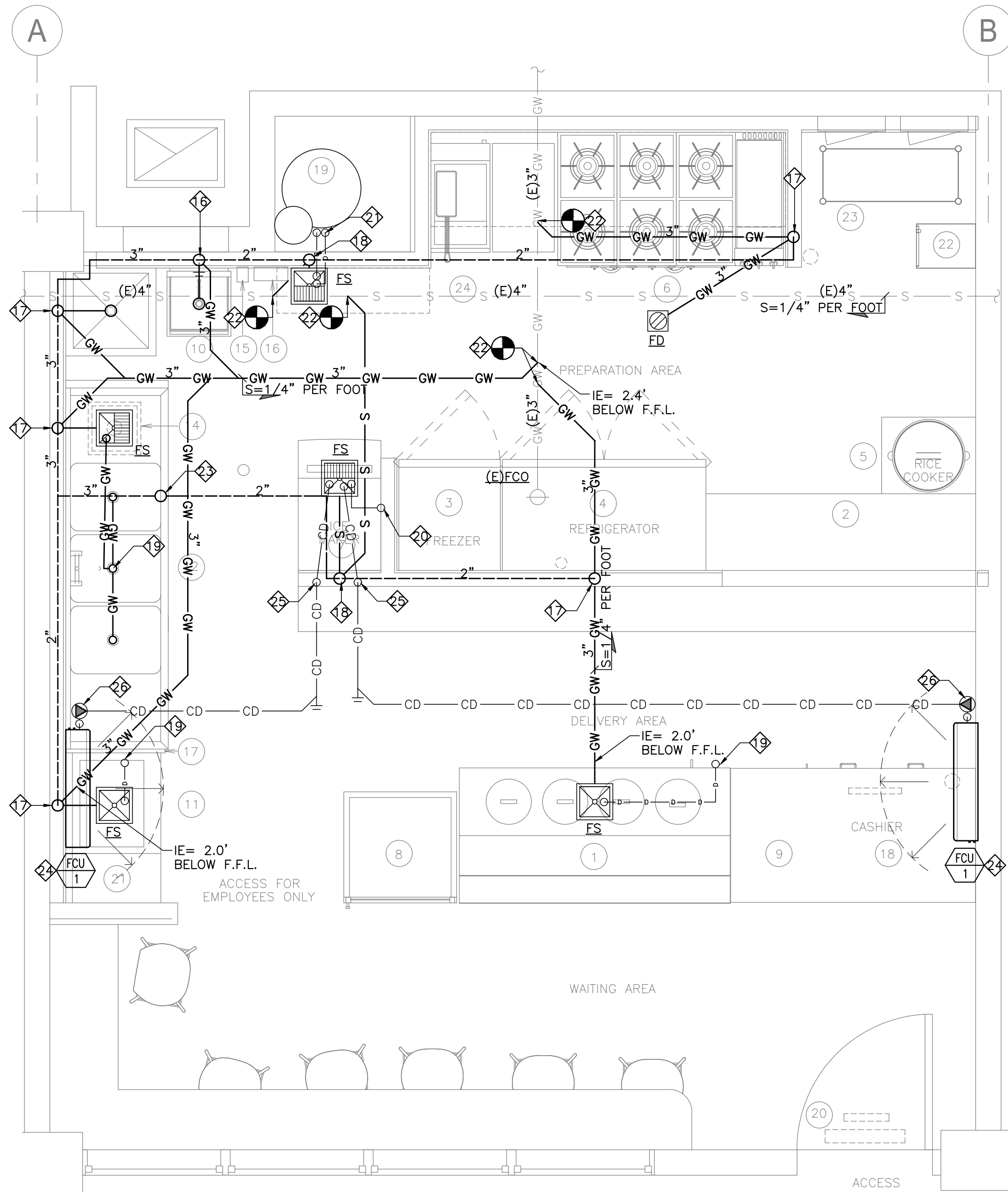
TITLE:
**PLUMBING
T-24 FORMS**

JOB NO: B2306-AA123
DRAWN: JP
CHECKED: CZ
SCALE: NONE
DATE: 07.19.2023

P0.4



1 PLUMBING WATER AND GAS LAYOUT
 P2.1 SCALE: 1/2" = 1'-0"



2 PLUMBING SEWER AND VENT LAYOUT
 P2.1 SCALE: 1/2" = 1'-0"

SHEET KEYNOTES

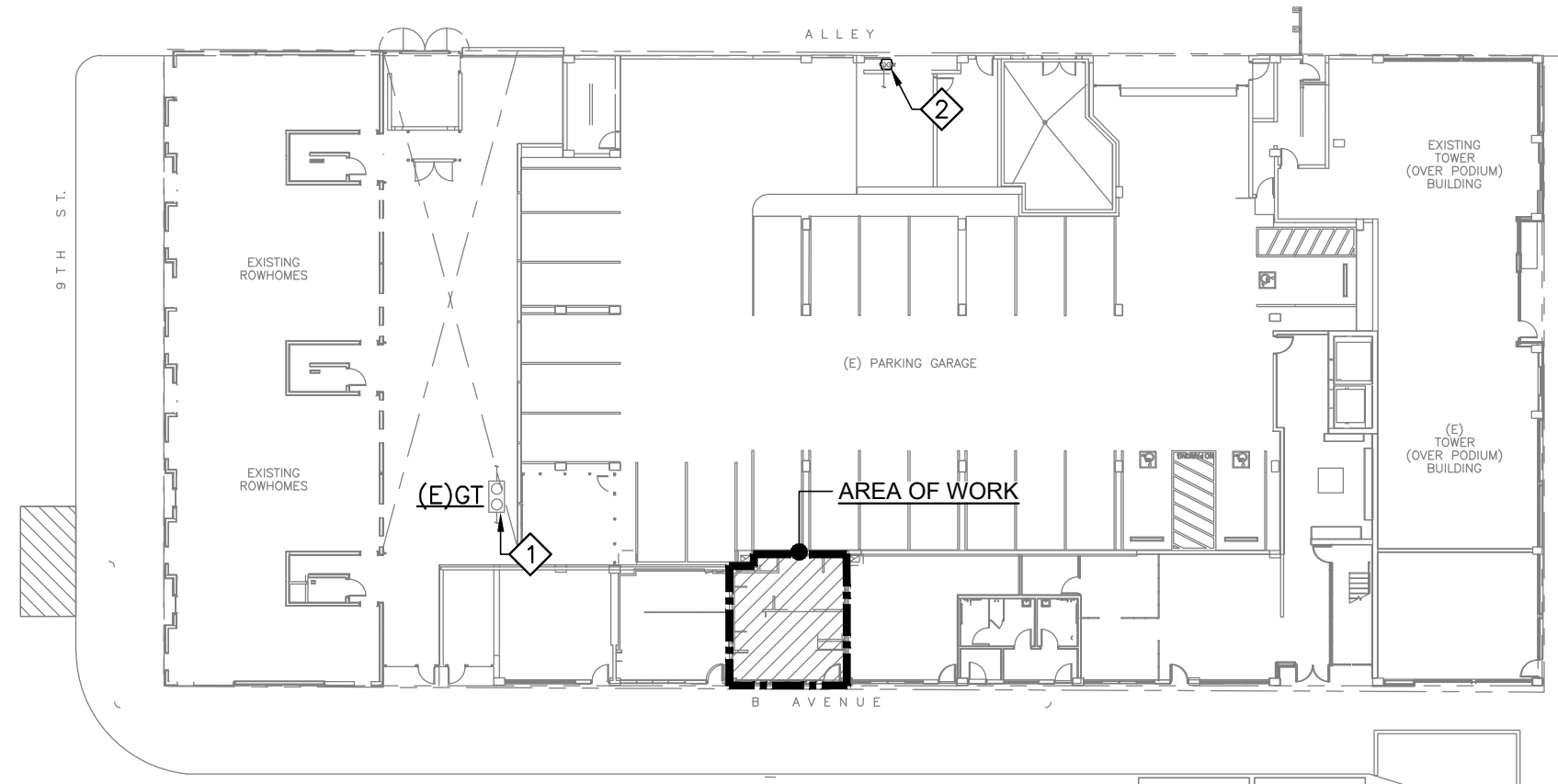
- 1 EXISTING HYDROMECHANICAL GREASE INTERCEPTOR (100 GPM; 1751 GREASE CAPACITY). CONTRACTOR SHALL VERIFY AT SITE.
- 2 NEW GAS METER WITH (465 CFH CAPACITY) @ 5 PSI GAS INLET PRESSURE TO BE CONNECTED TO EXISTING 1/2" MAIN GAS PIPE. GAS METER SHALL BE PROTECTED AGAINST OVER PRESSURE, BACK PRESSURE AND VACUUM. SEC. 1208.7.3, 2022 CALIFORNIA PLUMBING CODE.
- 3 (N)1-1/2"G PIPE TO BE CONNECTED TO EXISTING 1/2" GAS PIPE STUB-OUT. PROVIDE PRESSURE REGULATOR SET TO .25 PSI DISCHARGE PRESSURE. CONTRACTOR SHALL VERIFY THE POINT OF CONNECTION AT SITE.
- 4 (N)1"CW PIPE TO BE CONNECTED TO EXISTING 2-1/2"CW MAIN PIPE, CONTRACTOR TO VERIFY THE POINT OF CONNECTION.
- 5 SUPPLY AND INSTALL NEW ELECTRIC STORAGE TO BE MOUNTED ON CONCRETE PLATFORM AT 48" HIGH FROM FINISHED FLOOR. COMPLETE WITH EXPANSION TANK, RE-CIRCULATION PUMP AND ALL NECESSARY ACCESSORIES, VALVES AND FITTINGS. SUPPORT AND BRACING SHALL BE IN ACCORDANCE WITH CPC 2022, 507.0 AND STRUCTURAL ENGINEER'S REQUIREMENT. PIPE ROUGH-IN SHALL BE:
 - 1" COLD WATER PIPE
 - 1" HOT WATER PIPE
 - 3/4" HOT WATER RETURN PIPE
- 6 3/4"CW AND 3/4"HW PIPES RUN THROUGH WALL WITH ISOLATION VALVE. INSTALL FAUCET WITH INTEGRAL ASSE 1001 COMPLIANT VACUUM BREAKER.
- 7 1"CW AND 1"HW SUPPLY PIPES RUN THROUGH WALL WITH ISOLATION VALVE.
- 8 3/4"CW AND 3/4"HW SUPPLY PIPES RUN THROUGH WALL WITH ISOLATION VALVE.
- 9 1/2"CW SUPPLY PIPE RUN THROUGH WALL WITH ISOLATION VALVE FOR ICE MAKER. SHALL HAVE BUILT IN BACKFLOW PREVENTER. INSTALL SUITABLE WATER FILTER AS RECOMMENDED BY THE MANUFACTURER.
- 10 3/4"CW AND 3/4"HW PIPES RUN THROUGH WALL WITH ISOLATION VALVE. INSTALL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE.
- 11 TRAP PRIMER PROTECTION FOR FLOOR DRAIN AND INDIRECT RECEPTOR. SUPPLY PIPE SHALL BE HARD DRAWN CONTINUOUS SLOPE. PROVIDE WITH MULTIPLE DISTRIBUTION UNIT (IF APPLICABLE). PROVIDE WITH APPROVED ACCESS PANEL.
- 12 3/4" HOT WATER RETURN WITH CIRCUIT SETTER/BALANCING VALVE, TO BE CALIBRATED BY CONTRACTOR AT SITE. CIRCUIT SETTER SET TO 1.0 GPM, SIMILAR TO WATTS LFC5M-61-S OR EQUAL APPROVED.
- 13 AUTOMATIC GAS SHUT OFF VALVE, SIGNAL FROM HOOD ANSUL SYSTEM WILL SHUT OFF GAS SUPPLY.
- 14 3/4"GAS PIPE RUN IN WALL WITH ISOLATION VALVE AND DRIP LEG FOR FRYER.
- 15 1-1/4"GAS PIPE RUN IN WALL WITH ISOLATION VALVE AND DRIP LEG FOR GAS BURNER.
- 16 2" VERTICAL GREASE WASTE PIPE WITH A CLEANOUT RUNS THROUGH THE WALL AND CONNECTS TO A 1-1/2" VENT EXTENDING UP TO THE CEILING.
- 17 3" GREASE WASTE PIPE RUNS BELOW THE FLOOR SLAB AND CONNECTS TO A 2" VENT RUNNING THROUGH THE WALL, EXTENDING UP TO THE CEILING.
- 18 3" WASTE PIPE RUNS BELOW THE FLOOR SLAB AND CONNECTS TO A 2" VENT RUNNING THROUGH THE WALL, EXTENDING UP TO THE CEILING.

- 19 PREP. SINK, 3-COMP. SINK, AND HOT FOOD STATION TO DISCHARGE INDIRECTLY TO FLOOR SINK VIA APPROVED AIR GAP.
- 20 ICE MAKER SHALL INDIRECTLY DISCHARGE TO FLOOR SINK VIA APPROVED AIR GAP.
- 21 WATER HEATER'S TEMPERATURE AND PRESSURE (T&P) DRAIN SHOULD BE CONFIGURED TO INDIRECTLY DISCHARGE TO FLOOR SINK TO VIA APPROVED AIR GAP.
- 22 NEW WASTE PIPE TO BE CONNECTED TO EXISTING SOIL / GREASE WASTE PIPE STUB-OUTS. BEFORE PROCEEDING WITH NEW WASTE PIPE LAYOUT, CONTRACTOR SHALL EXCAVATE EXISTING WASTE PIPE AT IDENTIFY POINT OF NEW CONNECTION AND VERIFY IF EXISTING SOIL AND GREASE WASTE PIPE DEPTH AND SIZE IS ADEQUATE TO ACCOMMODATE NEW WASTE PIPE CONNECTION. CONTRACTOR SHALL PROVIDE INFORMATION ABOUT ANY INVERT ELEVATION PROBLEM THAT MAY ARISE BEFORE PROCEEDING WITH NEW WORK.
- 23 3" VENT PIPE TO BE CONNECTED TO EXISTING VENT AT CEILING SPACE. CONTRACTOR TO VERIFY THE POINT OF CONNECTION.
- 24 INDICATIVE PROFILE OF MECHANICAL MAKE-UP AIR UNITS AND FCU. SEE MECHANICAL DRAWINGS FOR DETAILS.
- 25 3/4" CONDENSATE DRAIN PIPING FROM FAN COIL UNIT DOWN THRU WALL AND DISCHARGE INDIRECTLY TO FLOOR SINK.
- 26 SUPPLY AND INSTALL CONDENSATE PUMP (ASPEN ASP-MLOEM OR APPROVED EQUAL) BELOW FCU DRAIN LINE TO RECEIVE CONDENSATE DRAIN BY GRAVITY. TO BE INSTALLED IN WALL. PROVIDE ACCESS PANEL.
- 27 PROVIDE GAS PRESSURE REGULATOR, 1208.8.4 VENTING OF LINE PRESSURE REGULATORS (EXCEPTION: A REGULATOR AND VENT LIMITING MEANS COMBINATION LISTED AS COMPLYING WITH CSA 221.80 SHALL BE PERMITTED TO BE USED WITHOUT A VENT TO THE OUTDOORS). REFER TO SHEET P4.2 DETAIL #3 FOR CUT SHEET OF THE LISTED NON-VENTED REGULATOR.

MANUAL GAS SHUTOFF VALVES. AN ACCESSIBLE GAS SHUTOFF VALVE SHALL BE PROVIDED UPSTREAM OF EACH GAS PRESSURE REGULATOR, WHERE TWO GAS PRESSURE REGULATORS ARE INSTALLED IN SERIES IN A SINGLE GAS LINE, A MANUAL VALVE SHALL NOT BE REQUIRED AT THE SECOND REGULATOR. CPC 1210.9

GENERAL NOTES

- A. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL PIPING AND UTILITIES PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.
- B. ALL PIPING LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND OWNER'S REPRESENTATIVE AND VERIFY EXACT ROUTING PRIOR TO START OF WORK.
- C. PIPE PENETRATIONS OF FIRE RATED WALL, FLOOR & CEILING SHALL BE PROTECTED AS PER CBC 714.3.
- D. HOT WATER PIPING SHALL BE INSULATED AND IN COMPLIANCE WITH CEC TABLE 120.3-A.
- E. DOMESTIC WATER PIPING SHALL BE AT CEILING SPACE OR HIGH LEVEL. UNLESS OTHERWISE NOTED.
- F. INSTALL ASSE 1010 COMPLIANT WATER HAMMER ARRESTERS ON LOCATIONS INDICATED IN LAYOUT.
- G. CONTRACTOR SHALL AVOID RUNNING PLUMBING PIPING ABOVE ELECTRICAL EQUIPMENT.
- H. CONTRACTOR SHALL VERIFY THAT WORK SHALL NOT CONFLICT WITH ANY EXISTING STRUCTURAL, UTILITY, OR UNDER-SLAB CONDITION USING NONDESTRUCTIVE VERIFICATION (GROUND PENETRATION RADAR, X-RAY, ETC) SUBSEQUENTLY, PENETRATION LOCATIONS MUST BE REVIEWED AND APPROVED BY LANDLORD PRIOR TO WORK.
- I. DEMOLISH AND REMOVE ALL UNUSED PIPING UNLESS OTHERWISE NOTED. COORDINATED WITH GENERAL CONTRACTOR FOR PATCHING WALL, CEILING OR ROOF AS NEEDED.
- J. NO PLUMBING PIPING SHALL BE CONCEALED AND VISIBLE AT GLAZING.
- K. INSTALL ALL FLOOR SINKS ACCESSIBLE FOR CLEANING AND NOT TO CAUSE TRIP HAZARD (UNDER SINKS OR HALF EXPOSED).
- L. FLOOR SINKS SHALL BE ACCESSIBLE FOR CLEANING AND INSTALLED FLUSH WITH FINISHED FLOOR.
- M. CONTRACTOR SHALL AVOID RUNNING PLUMBING PIPING ABOVE ELECTRICAL EQUIPMENT.
- N. PLUMBING CONTRACTOR TO PROVIDE ISOLATION VALVES ON ALL HOT AND COLD WATER PIPING CONNECTIONS SERVING THE PLUMBING FIXTURES.
- O. EXISTING CONDITION ARE BASED ON LIMITED FIELD VERIFICATIONS. THE CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE PROJECT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY EXTRAS DUE TO CONTRACTOR'S FAILURE TO VISIT THE PROJECT SITE & PREDETERMINATION OF EXISTING CONDITIONS PRIOR TO SUBMITTING THE BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/OWNER/ENGINEER FOR SOLUTION.
- P. ALL HOT AND COLD WATER PIPING SERVING PLUMBING FIXTURES & EQUIPMENT SHALL BE PROVIDED WITH BRANCH SHUT-OFF VALVES.
- Q. VENT THRU ROOF PIPE. PROVIDE 10 FEET MINIMUM AWAY FROM ANY AIR INTAKE INTO THE BUILDING OR OPENING WINDOW/ROOF ACCESS INTO THE BUILDING.



3 SITE PLAN
 P2.1 SCALE: 1/32" = 1'-0"

REV	DESCRIPTION	DATE
1	PC COMMENTS	07-19-23

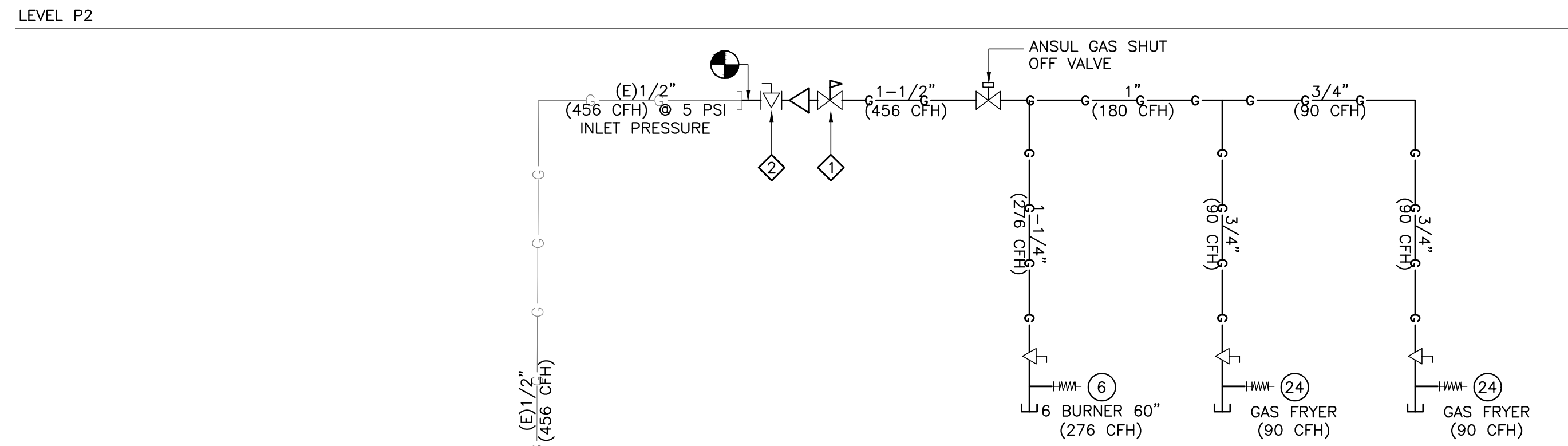
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TENANT IMPROVEMENT
 800 B AVENUE SUITE 804
 NATIONAL CITY CA 91950



TITLE:
PLUMBING LAYOUT
 JOB NO: B2306-AA123
 DRAWN: JP
 CHECKED: CZ
 SCALE: AS SHOWN
 DATE: 07.19.2023

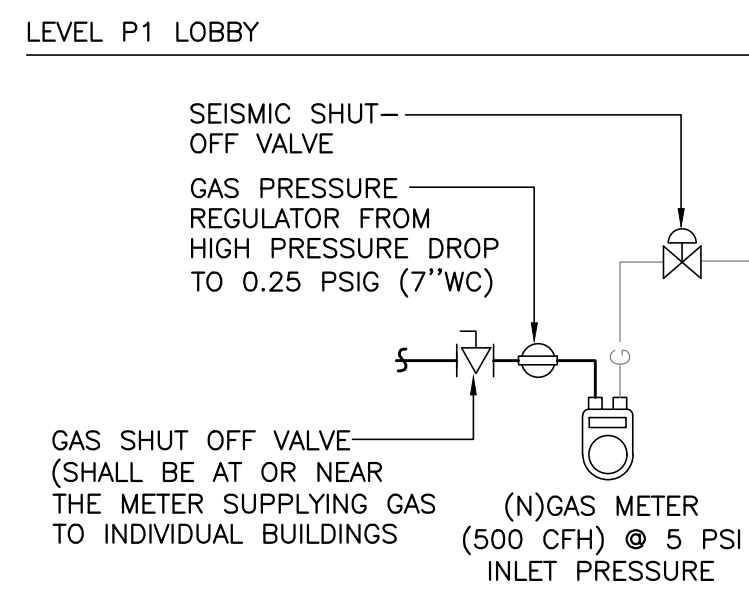
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REV	DESCRIPTION	DATE
△	PC COMMENTS	07-19-23



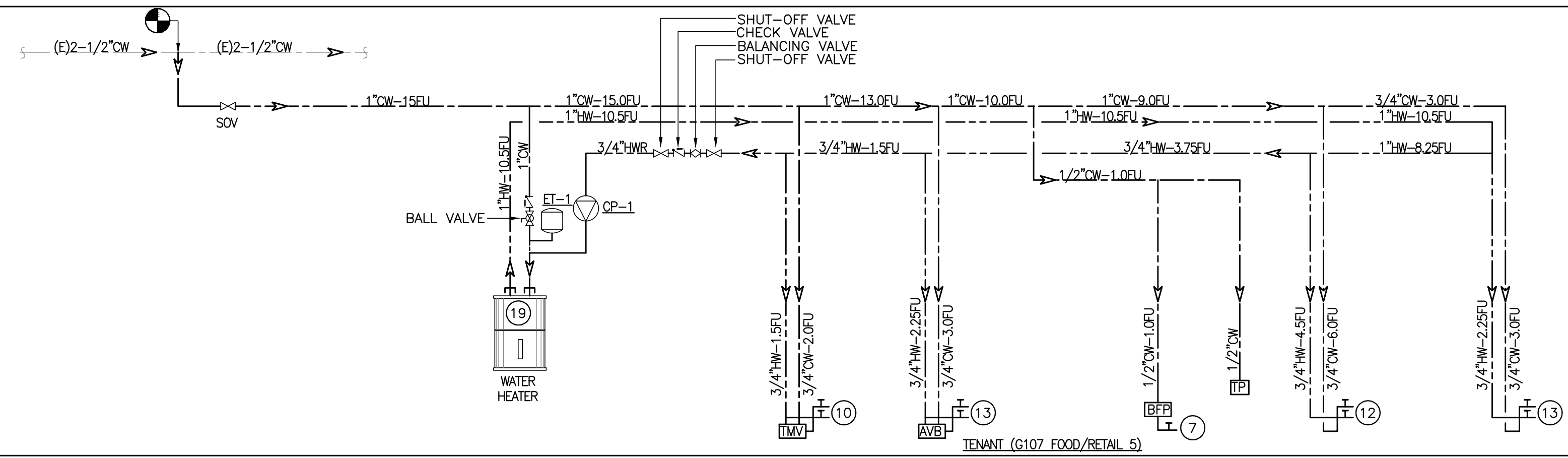
SHEET NOTES

- ◇ PROVIDE PRESSURE REGULATOR SET AT .25 PSI DISCHARGE PRESSURE.
- "MAXITROL" 325-L SERIES WITH OVERPRESSURE PROTECTION DEVICES (OPDs) - FOR UP TO 5PSI AND 7 TO 11 INCHES W.C. OUTLET PRESSURE.
- 1208.8.4 VENTING OF LINE PRESSURE REGULATORS (EXCEPTION: A REGULATOR AND VENT LIMITING MEANS COMBINATION LISTED AS COMPLYING WITH CSA Z21.80 SHALL BE PERMITTED TO BE USED WITHOUT A VENT TO THE OUTDOORS). REFER TO SHEET P4.2 DETAIL #3 FOR CUT SHEET OF THE LISTED NON-VENTED REGULATOR.
- ◇ CPC 1210.9 MANUAL GAS SUTOFF VALVES. AN ACCESSIBLE GAS SHUTOFF VALVE SHALL BE PROVIDED UPSTREAM OF EACH GAS PRESSURE REGULATOR; WHERE TWO GAS PRESSURE REGULATORS ARE INSTALLED IN SERIES IN A SINGLE GAS LINE, A MANUAL VALVE SHALL NOT BE REQUIRED AT THE SECOND REGULATOR.



1 GAS DIAGRAM

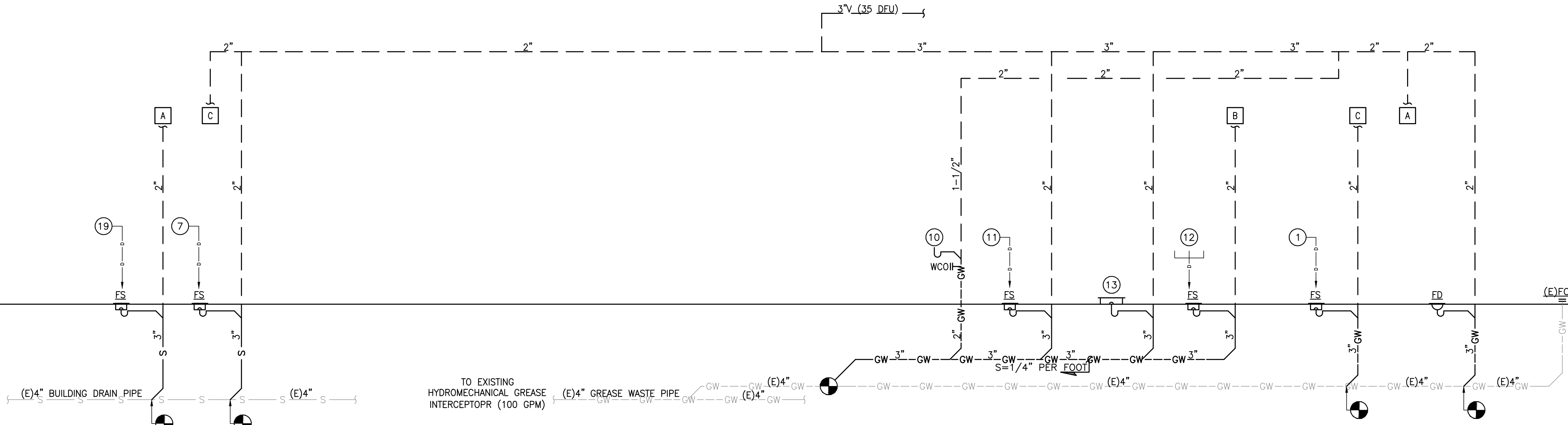
LEVEL P2



2 WATER DIAGRAM

LEVEL P2

LEGEND:
[X] - PIPE CONTINUATION NOTE



3 SEWER AND VENT DIAGRAM

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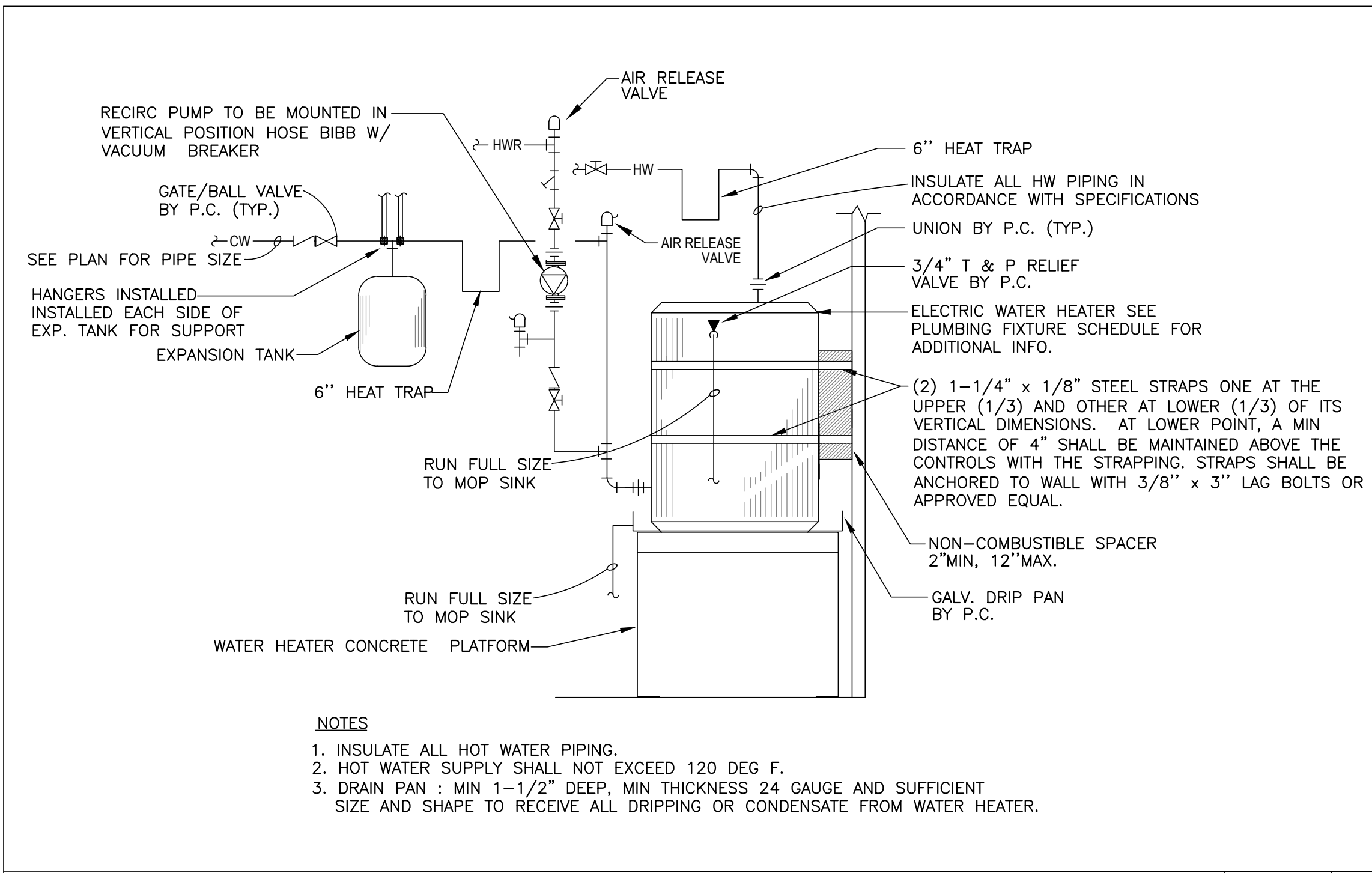


TITLE:
PLUMBING SCHEMATIC DIAGRAM

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DRAWN: JP
CHECKED: CZ
SCALE: NONE
DATE: 07.19.2023

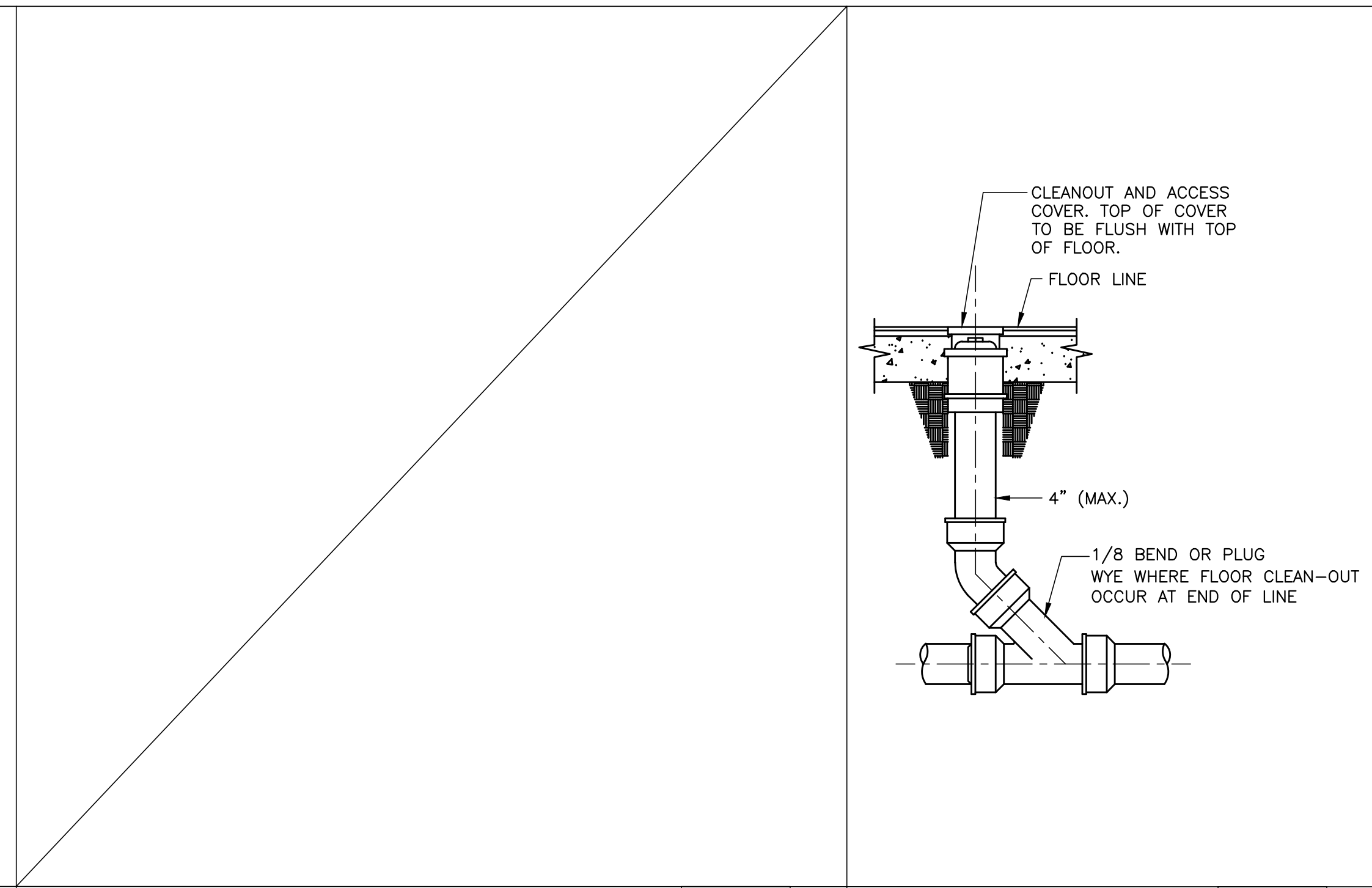
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REV	DESCRIPTION	DATE
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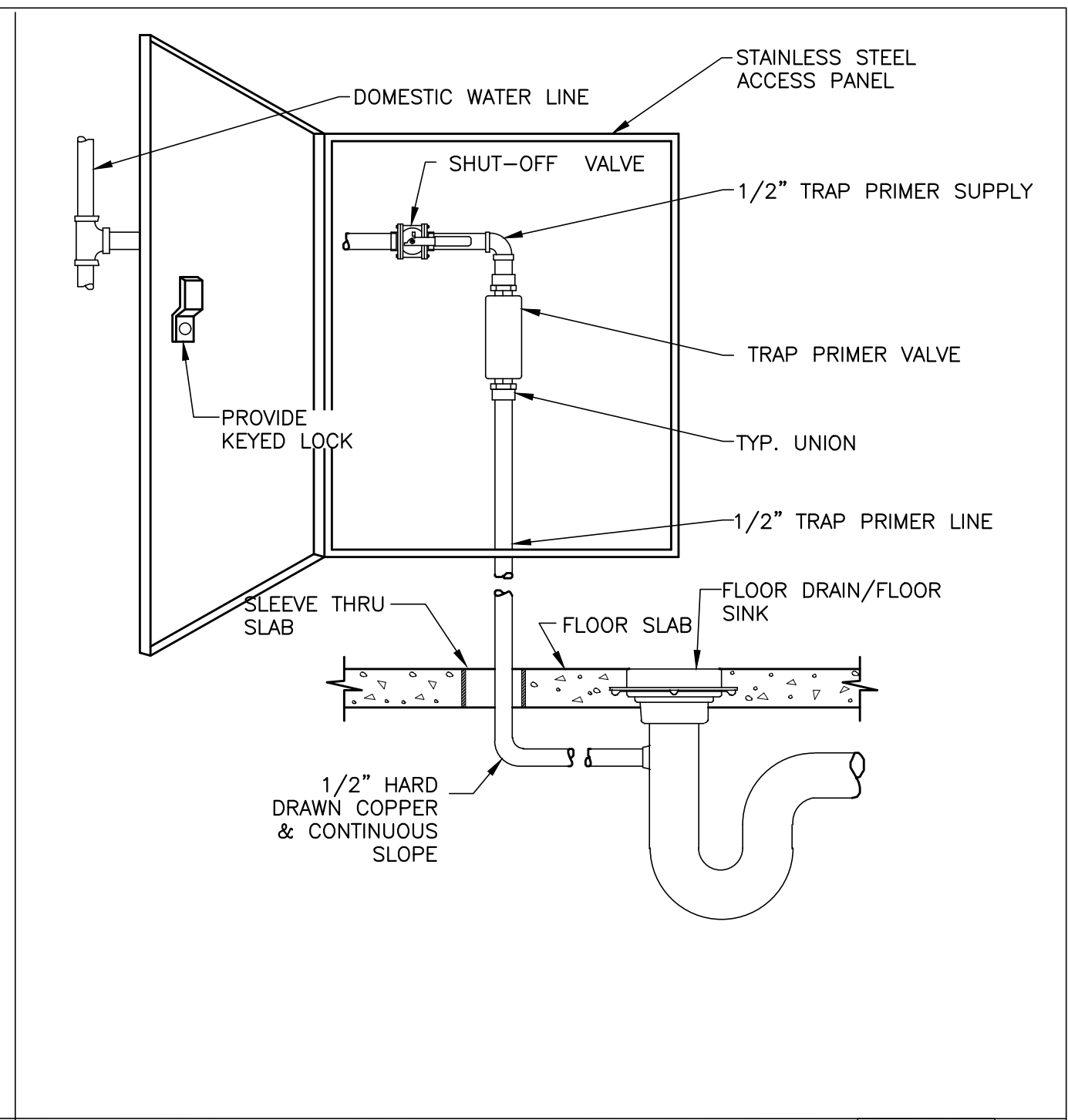


- NOTES**
1. INSULATE ALL HOT WATER PIPING.
 2. HOT WATER SUPPLY SHALL NOT EXCEED 120 DEG F.
 3. DRAIN PAN : MIN 1-1/2" DEEP, MIN THICKNESS 24 GAUGE AND SUFFICIENT SIZE AND SHAPE TO RECEIVE ALL DRIPPING OR CONDENSATE FROM WATER HEATER.

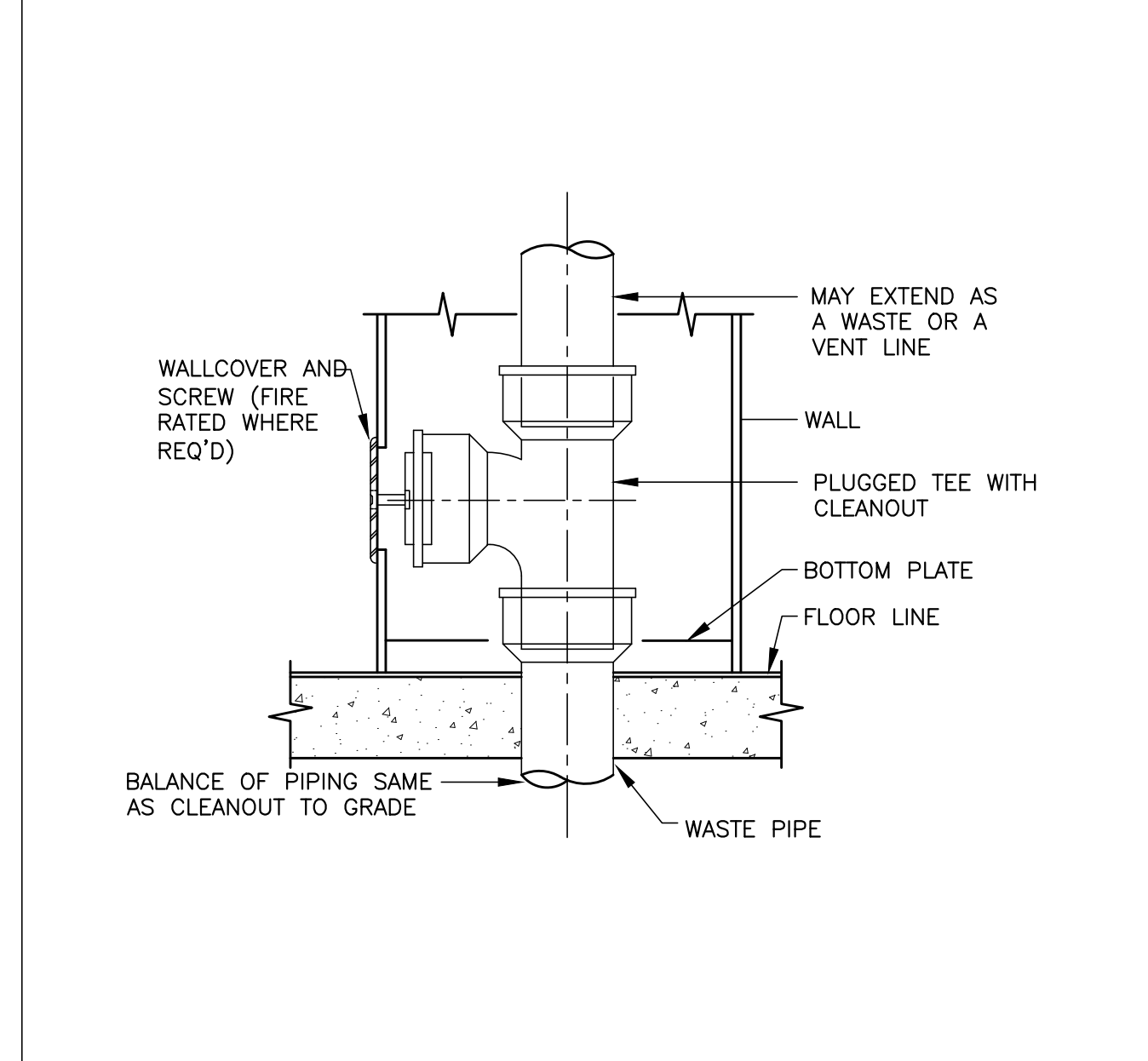
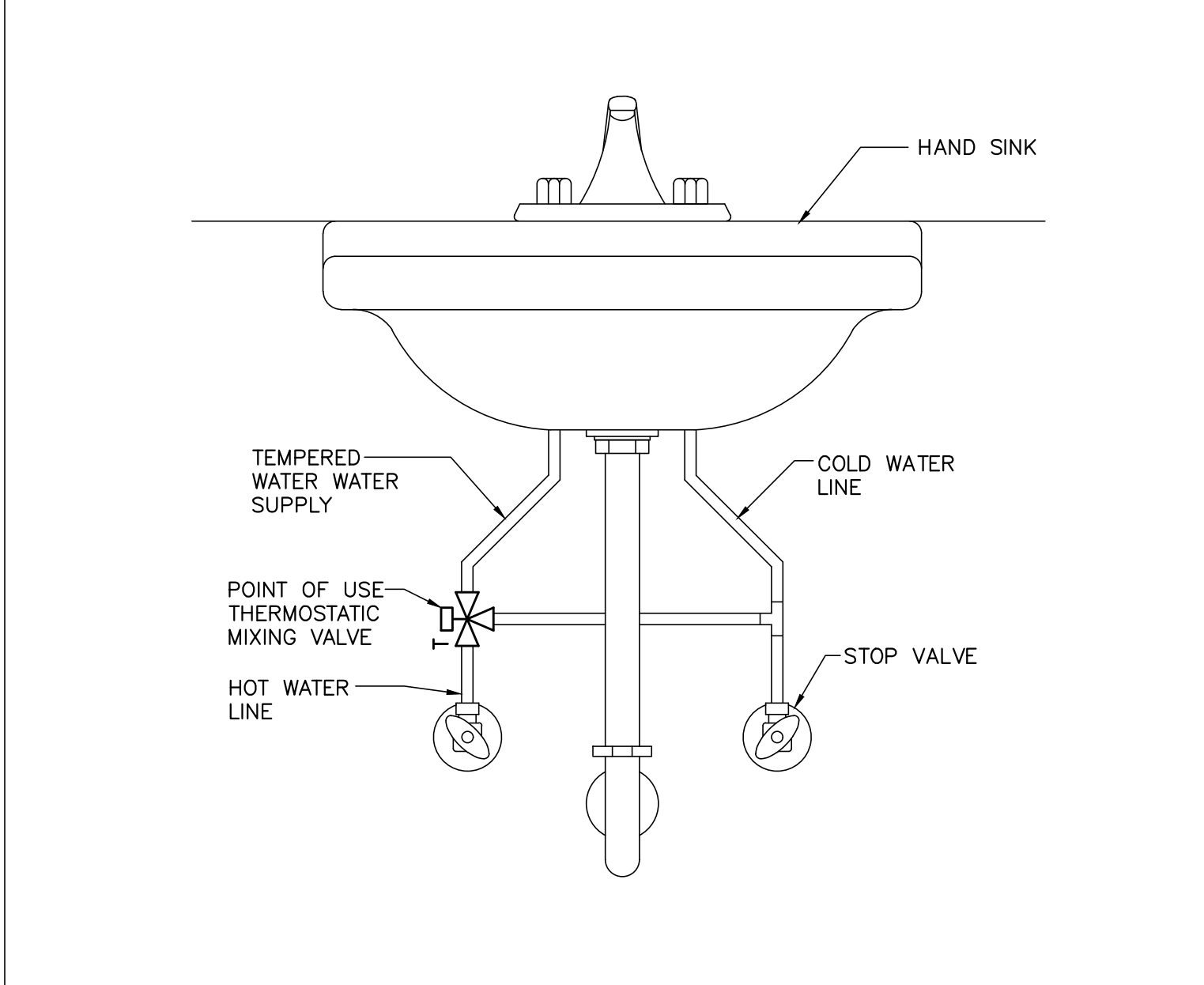
HOT WATER HEATER PIPING DETAIL SCALE NONE 1 NOT USED



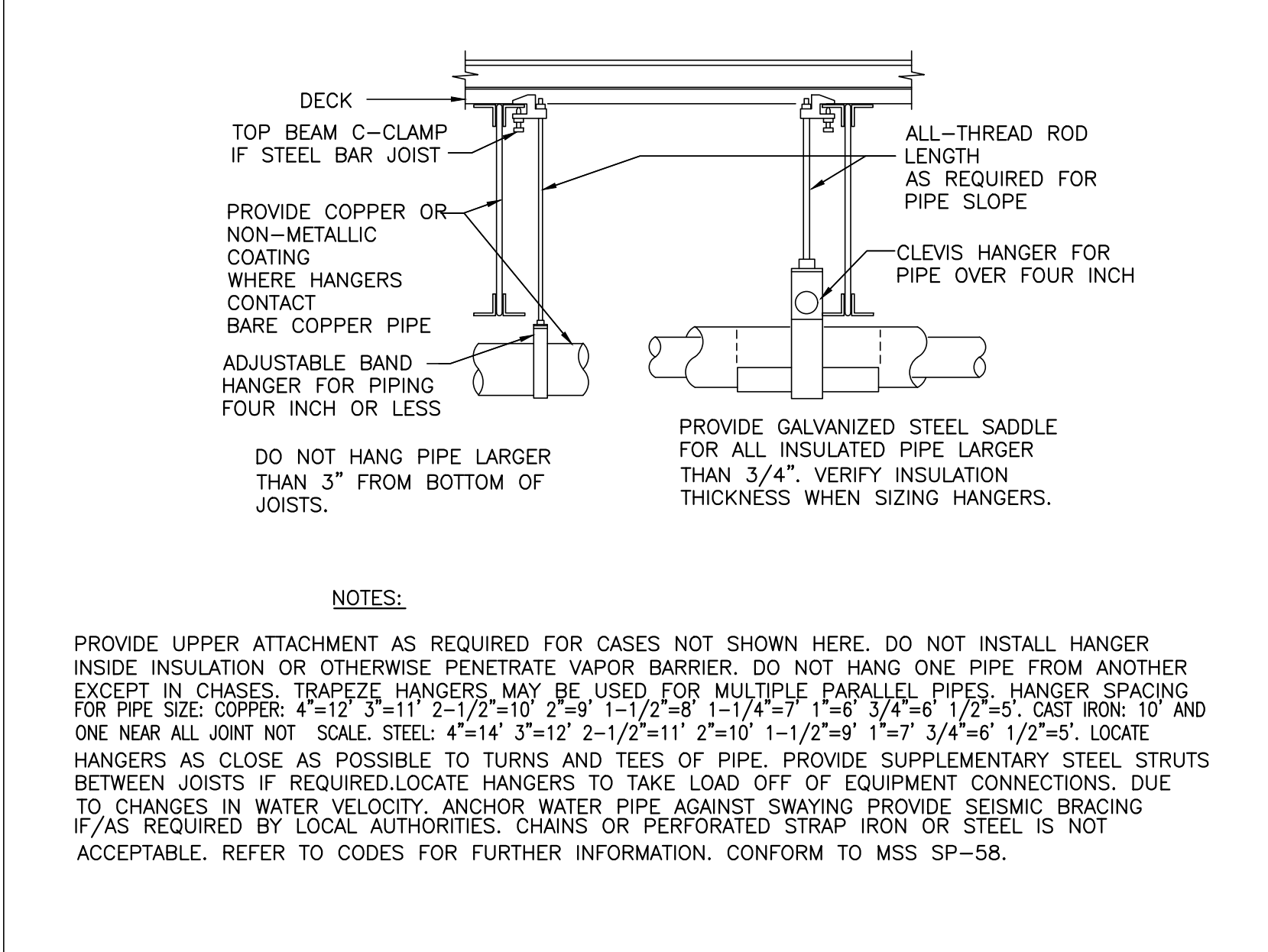
SCALE NONE 2 FLOOR CLEANOUT DETAIL SCALE NONE 3



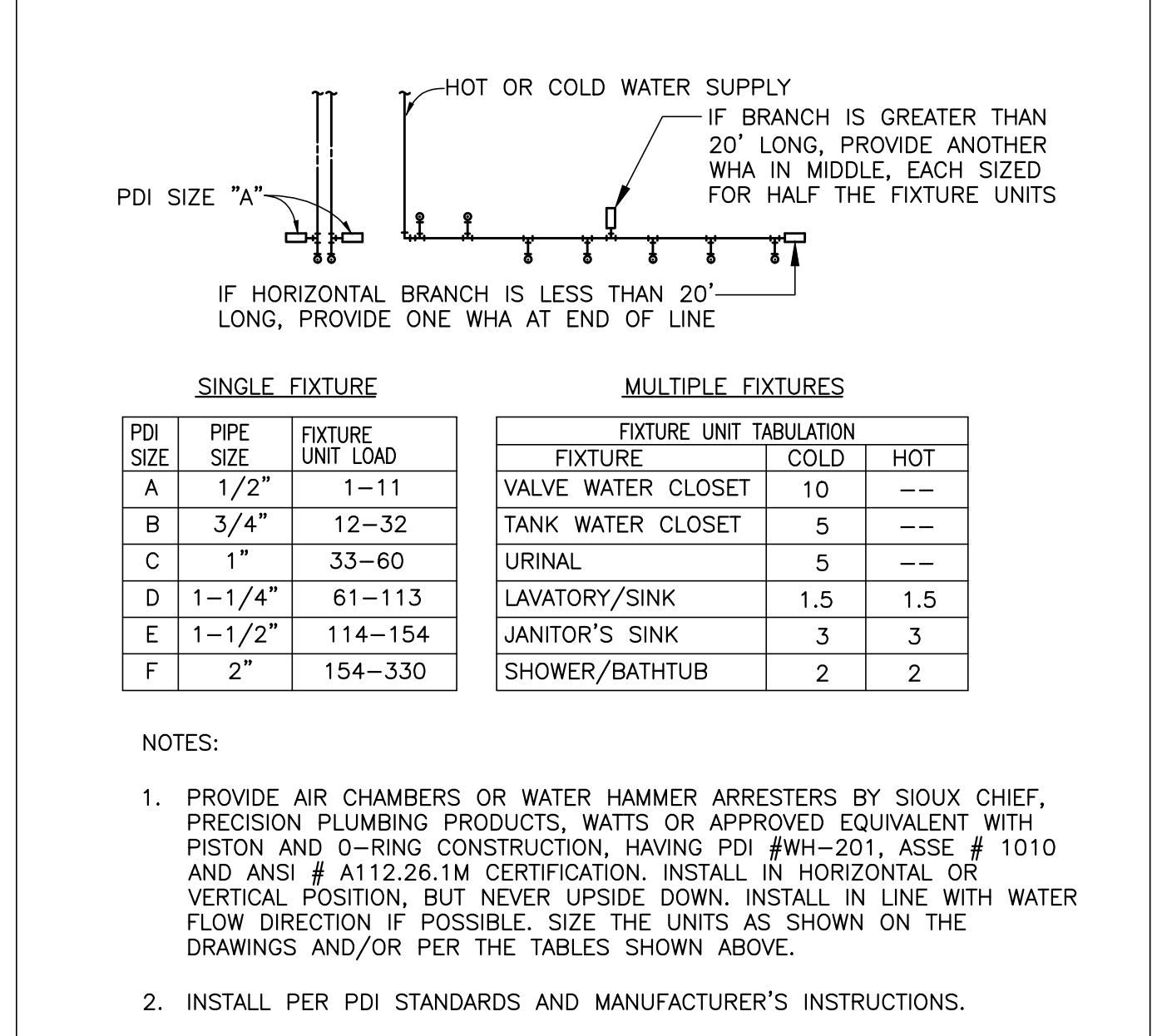
SCALE NONE 4



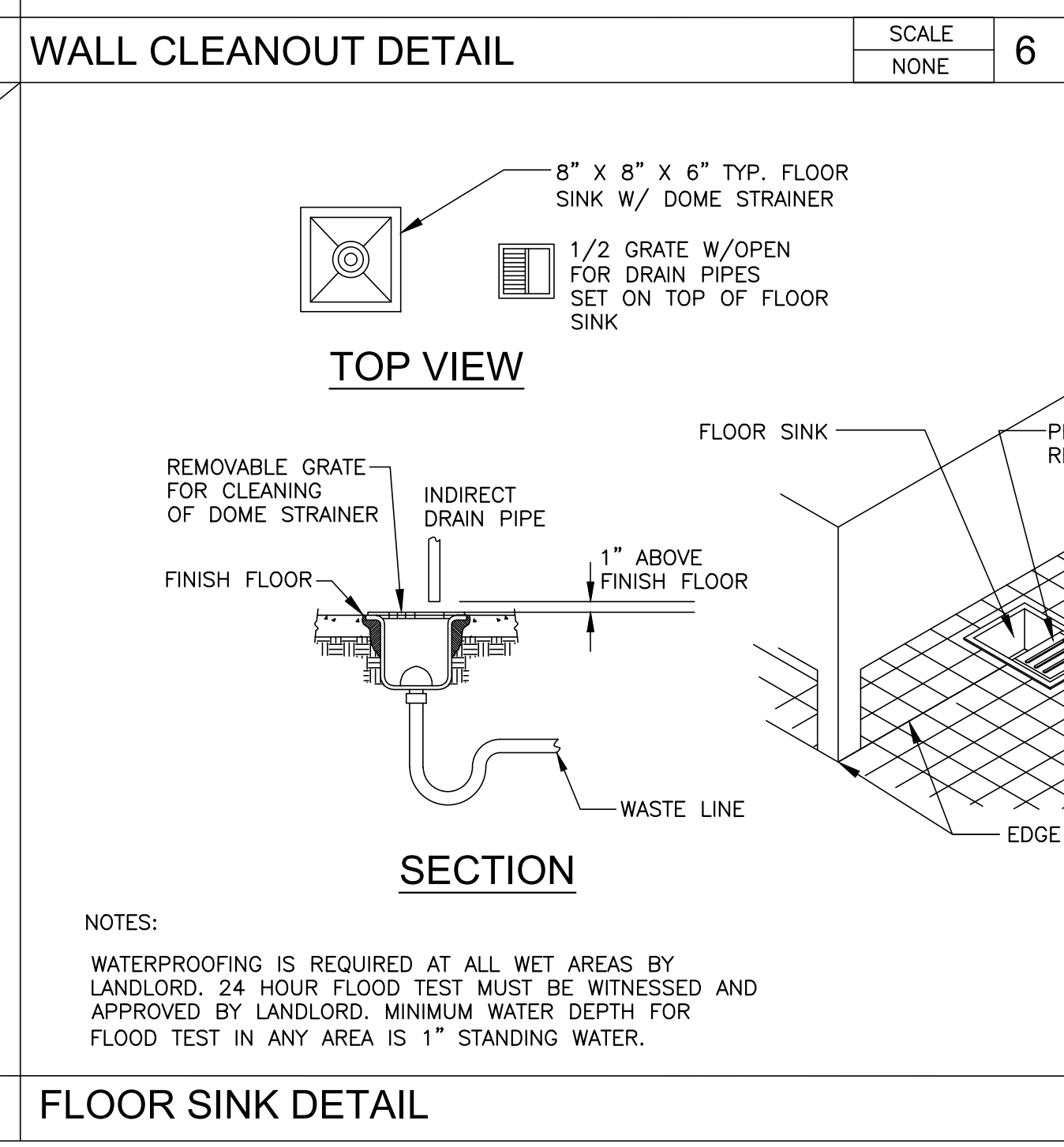
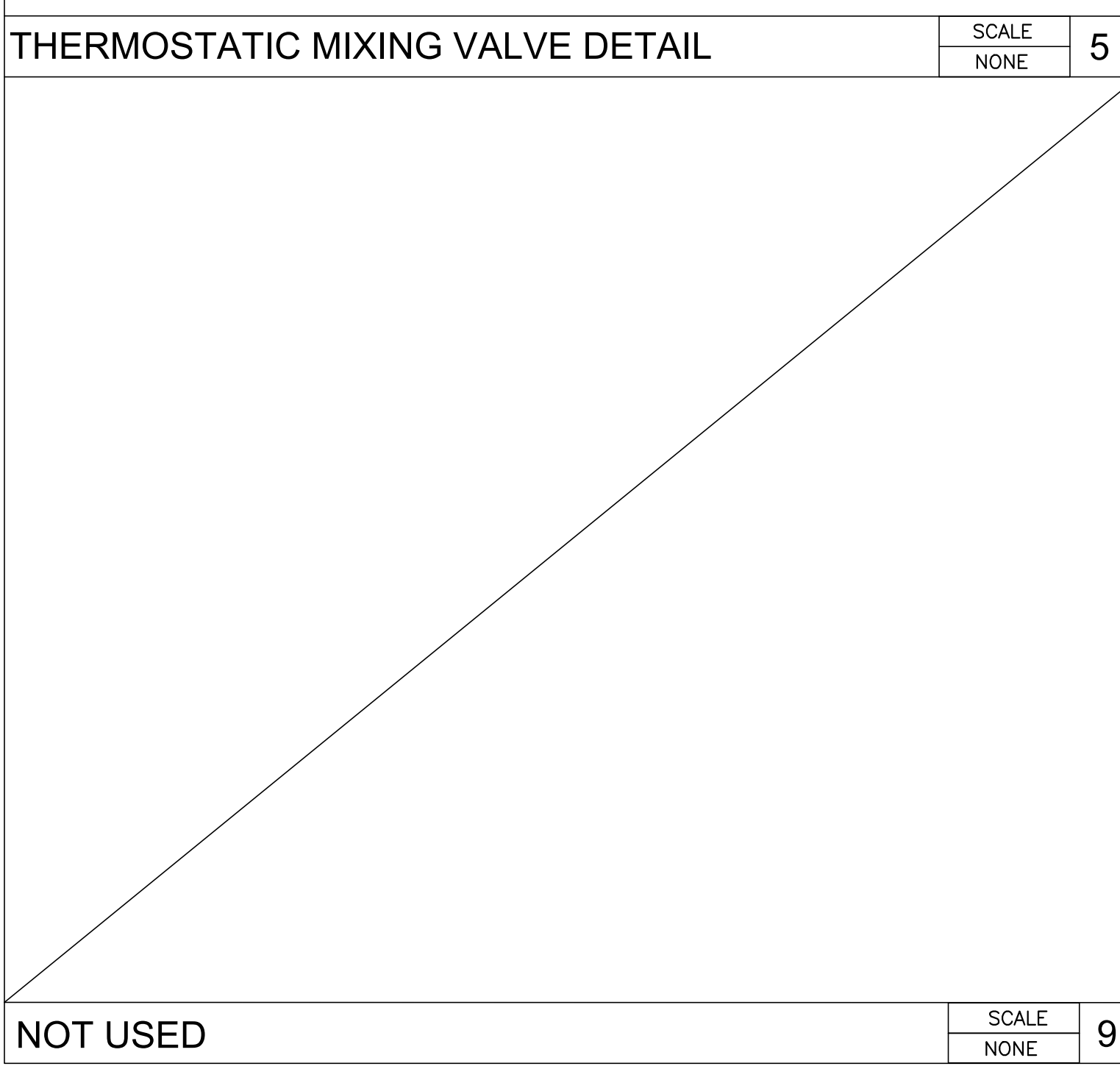
SCALE NONE 5 THERMOSTATIC MIXING VALVE DETAIL SCALE NONE 6 WALL CLEANOUT DETAIL



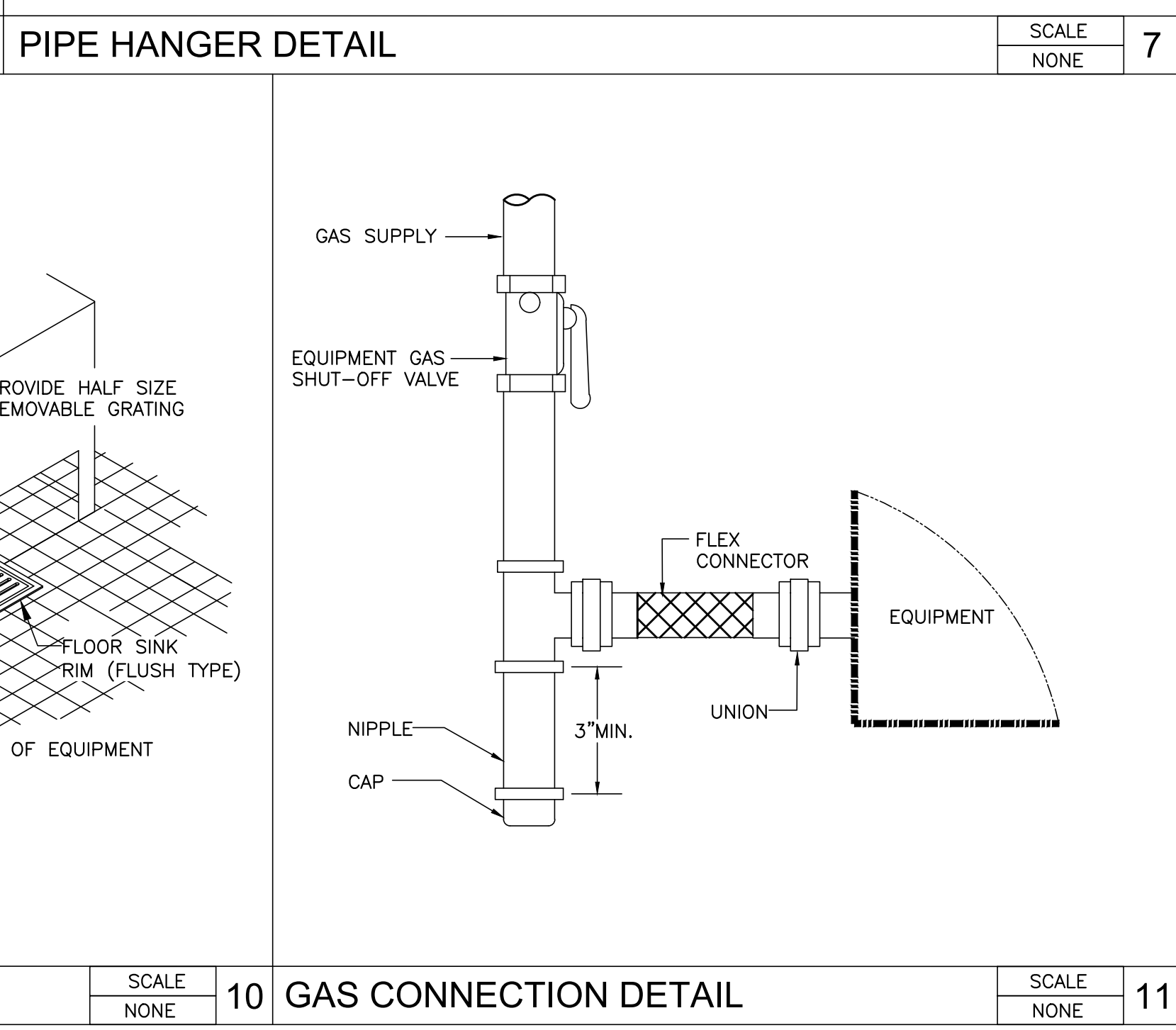
SCALE NONE 7 PIPE HANGER DETAIL



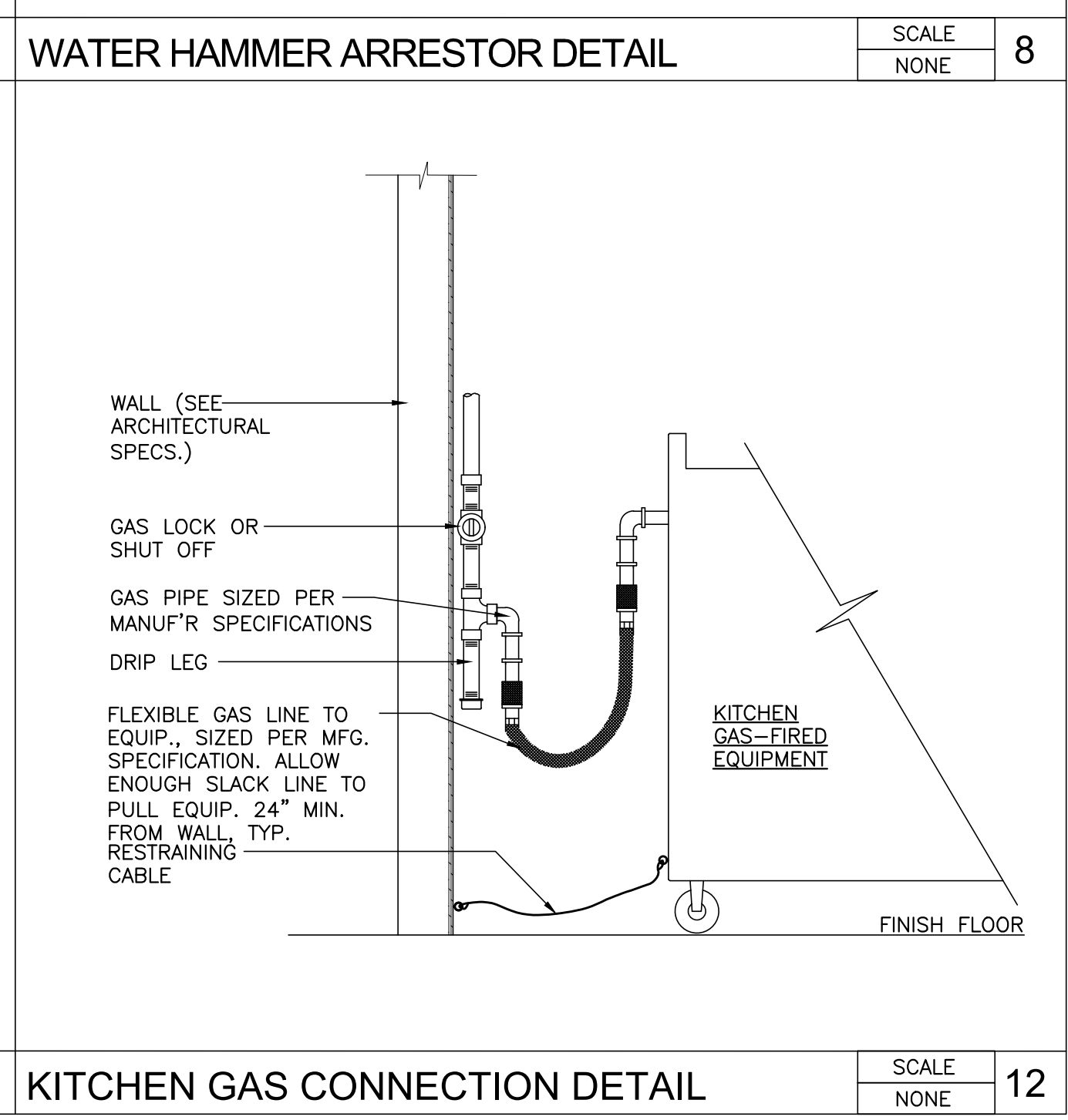
SCALE NONE 8 WATER HAMMER ARRESTOR DETAIL



SCALE NONE 9 FLOOR SINK DETAIL SCALE NONE 10 GAS CONNECTION DETAIL



SCALE NONE 11 KITCHEN GAS CONNECTION DETAIL



SCALE NONE 12

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TITLE:
PLUMBING DETAILS

JOB NO: B2306-AA123
DRAWN: JP
CHECKED: CZ
SCALE: NONE
DATE: 07.19.2023

P4.1

THROUGH-PENETRATION FIRESTOP SYSTEM

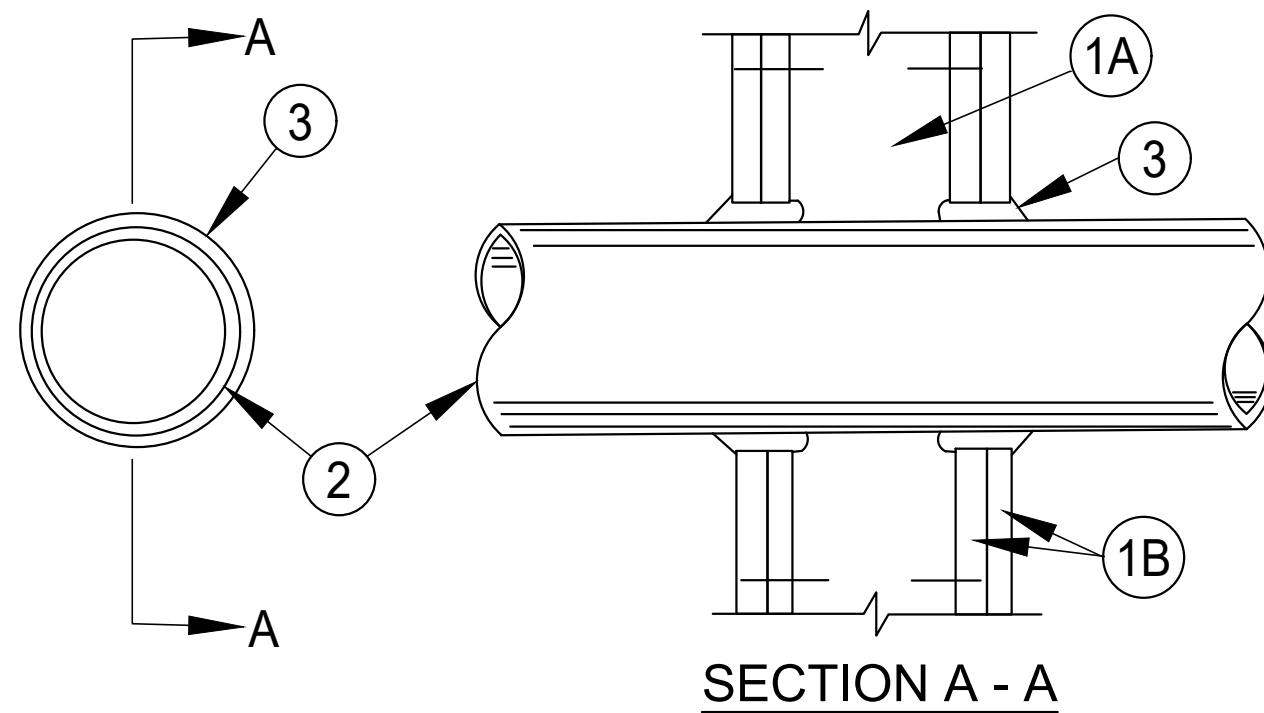
ASSEMBLY USAGE DISCLAIMER

XHEZ - THROUGH-PENETRATION FIRESTOP SYSTEMS

SEE GENERAL INFORMATION FOR THROUGH-PENETRATION FIRESTOP SYSTEMS

SYSTEM NO. W-L-1001
JUNE 15, 2005

F RATINGS - 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS - 0, 1, 2, 3, AND 4 HR (SEE ITEM 3) L
RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT L
RATING AT 400 F - LESS THAN 1 CFM/SQ FT



- WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.
 - GYPSUM BOARD* - NOM 1/2 OR 5/8 IN. (13 OR 16 MM) THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 26 IN. (660 MM).

- THROUGH-PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN. (0 MM). (POINT CONTACT) TO MAX 2 IN. (51 MM) PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - STEEL PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - IRON PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
 - CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING
 - COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING
 - COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
 - THROUGH PENETRATING PRODUCT* - FLEXIBLE METAL PIPING THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:
 - NOM 2 IN. (51 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. OMEGA FLEX INC
 - NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. GASTITE, DIV OF TITFLEX
 - NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. WARD MFG L L C

- FILL, VOID OR CAVITY MATERIAL - CAULK OR SEALANT - MIN 5/8, 1-1/4, 1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

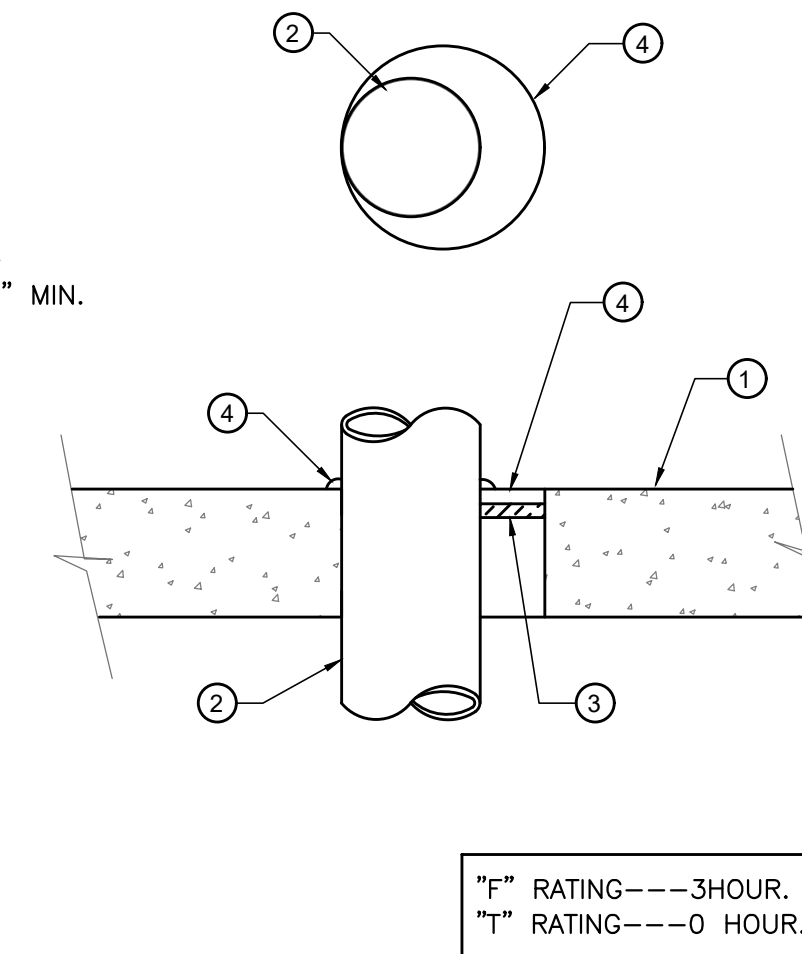
Max Pipe or Conduit Diam In (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0 H. 3M COMPANY - CP 25WB+ OR FB-3000 WT.

- MIN. FLOOR OR WALL: 4-1/2" THICK CONCRETE. MAX. DIA. OF OPENING IS 22-1/2"
- OPTIONAL STEEL SLEEVE. MAXIMUM 12" DIA.
- MAX. 20" STEEL PIPE, 6" COPPER TUBE, OR 4" CAST IRON PIPE. MAX. ANNULAR SPACE BETWEEN PIPE AND OPENING NOT TO EXCEED 2-1/2". MIN. SPACE IS 0".
- PACKING MATERIAL, POLYETHYLENE BACKER ROD OR 1" THICK TIGHTLY PACKED CERAMIC (ALUMINA SILICA) FIBER BLANKET, MINERAL WOOL BATT OR FIBER GLASS INSULATION. PACKING MATERIAL TO BE RECESSED AS REQUIRED TO ACCOMMODATE FOR THE THICKNESS OF THE CAULK FILL MATERIAL. AS AN ALTERNATE WHEN MAX. PIPE SIZE IS 10" AND MAX. ANNULAR SPACE IS 1", A MIN. 1" THICK TIGHTLY PACKED CERAMIC FIBER BLANKET OR MINERAL WOOL BATT MAY BE USED, AND SHOULD BE RECESSED 1/2" MIN. FROM BOTTOM SIDE OF FLOOR OR BOTH SIDES OF CONCRETE WALL.
- FILL, VOID OR CAVITY MATERIAL - *CAULK - CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE TO THE MIN. THICKNESS SHOWN IN THE FOLLOWING TABLE.

MAX. PIPE DIAMETER	MAXIMUM ANNULAR SPACE	PACKING MAT'L TYPE (a)	MIN. CAULK THICKNESS
10"	1"	BR, CF, GF OR MW	1/2"(b)
10"	1"	CF OR MW	1/2"(c)
20"	2-1/2"	BR, CF, GF OR MW	1"(b)

- (a) BR=POLYETHYLENE BACKER ROD.
CF=CERAMIC FIBER BLANKET.
GF=GLASS FIBER INSULATION.
MW=MINERAL WOOL BATT.
- (b) CAULK INSTALLED FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF CONCRETE WALL.
- (c) CAULK INSTALLED FLUSH WITH BOTTOM SURFACE OF FLOOR OR ONE SURFACE OF CONCRETE WALL.
- MINNESOTA MINING & MFG. CO.--TYPE CP 25N/S(ULISTED F-A-5016)
* BEARING THE UL CLASSIFICATION MARKING. REFER TO SCHEDULE 9, THIS SHEET



FIRESTOP PENETRATIONS DETAIL

SCALE NONE

1 NON-INSULATED PENETRATION (CONCRETE FLOOR)

SCALE NONE

2

10 PIPING SYSTEMS UP TO 5 PSI

Maxitrol's 325-L series with overpressure protection devices (OPDs) are CSA certified (ANSI Z21.80/CSA 6.22) for up to 5 psi inlet pressure, and 7 to 11 inches w.c. outlet pressure (see page 18).

The L models with OPDs are for use on piping systems up to 5 psi such as CSST (corrugated stainless steel), semirigid copper tubing, or steel/black iron pipe. The regulators reduce pounds pressure to a level within the appliance or equipment's operating supply range. The line regulator is located upstream of appliances already fitted with a regulator.

At supply pressures in excess of 2 psi, the ANSI Z21.80/CSA 6.22 standard for line pressure regulators requires an overpressure protection device - OPD. The OPD must be integral or factory pre-assembled, approved and tested for use with the regulator, to limit the downstream pressure to 2 psi maximum, in the event of line regulator failure.

Figure 4: 325-L (B) Models with OPDs: Pipe sizes from 3/8" to 3"

NOTE: Imblue Technology® Regulators available for above models.

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11 12 LINE PRESSURE REGULATOR OPTIONS

As optional accessories, the regulators and OPDs offer a ν Limiters®. The 12A09, 12A39, or 12A49 ν Limiters® eliminate the need to run vent piping to an outside area. In the event of a diaphragm rupture, gas escapement is limited to within the ANSI standard requirements.

NOTE: Maxitrol line pressure regulators DO NOT contain an internal relief function.

Figure 5: 325-7AL with ν Limiters® 12A49

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14 ν Limiters® VENT LIMITING DEVICE MAXIMUM ALLOWABLE VENTING RATE

A ν Limiters® used with Maxitrol regulators DOES NOT release or relieve gas into the environment during normal operation.

Figure 8: 12A39 Ball Check Cutaway

Figure 9: ν Limiters® Vent Limiting Devices

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15 18 5 PSI LINE PRESSURE REGULATORS

To comply with the Standard for Line Pressure Regulators, ANSI Z21.80/CSA 6.22, installations exceeding 2 psi nominal require a tested and approved overpressure protection device (OPD, factory pre-assembled*) for use with the regulator.

GASES Suitable for application in natural, manufactured, mixed gases, liquefied petroleum gases, and LP gas-air mixture piping systems.

MAXIMUM INLET PRESSURE CSA certified.....5 psi (34.5 kPa)

EMERGENCY Inlet side only	EXPOSURE	LIMITS
		65 psi (450 kPa)

OUTLET Certified spring	PRESSURE	RANGE
		7-11" w.c.

MAXIMUM INDIVIDUAL LOAD/CAPACITY: NAT GAS

325-3(B)L47 (1/2", 3/4") (with OPD 47)	125,000 Btu/hr
325-3(B)L48 (1/2", 3/4") (with OPD 48)	200,000 Btu/hr
325-5(B)L48 (1/2", 3/4") (with OPD 48)	235,000 Btu/hr
325-5(B)L48 (1/2", 3/4") (with OPD 48)	320,000 Btu/hr
325-5(B)L600 (1") (with OPD 600)	425,000 Btu/hr
325-5(B)L600 (1") (with OPD 600)	465,000 Btu/hr
325-7A(B)L210E (1 1/2", 2") (with OPD 210E)	1,250,000 Btu/hr
325-9(B)L210E (1 1/2", 2") (with OPD 210E)	2,250,000 Btu/hr
325-11(B)L210E (2", 2 1/2", 3")	4,500,000 Btu/hr

NOTE: ν Limiters® devices meet ANSI Z21.80/CSA 6.22. The requirement states "Vent limiters shall be of materials having melting points of not less than 800°F (427°C)."

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19 ν Limiters® VENT LIMITING DEVICE

*NOTE: Even though the Maxitrol 5 psi line regulator with OPD is shipped as an assembly it is important to check the pre-assembled pipe connection between the regulator and the OPD for leakage.

NOTE: Heating value specific gravity may vary based on location. Please contact local utility or gas supplier.

NOTE: Please refer to the Measurement Conversion Calculator on Maxitrol.com for conversions from natural to LP.

ν Limiters® VENT LIMITING DEVICE	
325-3(B)L.....	12A09
325-5(B)L.....	12A39
325-7A(B)L.....	12A49
325-9(B)L.....	12A49
OPD 47.....	Integral vent limiting orifice with dust cap
OPD 48.....	12A09
OPD 600.....	12A09
OPD 210E.....	12A39
OPD 210E.....	12A49

ν Protectors® VENT PROTECTORS FOR OUTDOOR APPLICATIONS

325-3(B)L.....	13A15
325-5(B)L.....	13A15-5
325-7A(B)L.....	13A25
325-9(B)L.....	13A25
OPD 47.....	Includes dust cap
OPD 48.....	13A15
OPD 600.....	13A15
OPD 210E.....	13A15-5
OPD 210E.....	13A25

NOTE: Vent limiters certified for 5 psi natural gas only.

AMBIENT TEMPERATURE LIMITS: -40°F to 205°F (-40°C to 96°C)

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GAS PRESSURE REGULATOR WITH OVERPRESSURE PROTECTION DEVICE

SCALE NONE

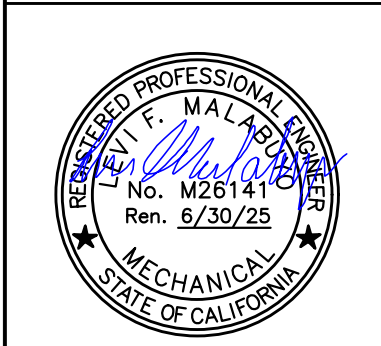
3

REV	DESCRIPTION	DATE
1	PC COMMENTS	07-19-23

SABOR PIRI PIRI
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800 B AVENUE SUITE 804
NATIONAL CITY CA 91950

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eng@imengineering.com
www.imengineering.com

ENGINEERING CONSULTANTS INC.



TITLE:

PLUMBING DETAILS

JOB NO: B2306-AA123
DRAWN: JP
CHECKED: CZ
SCALE: NONE
DATE: 07.19.2023

P4.2