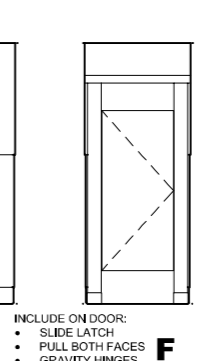
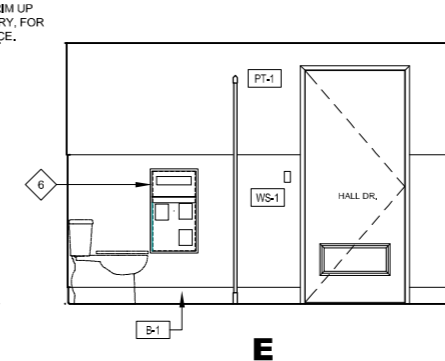
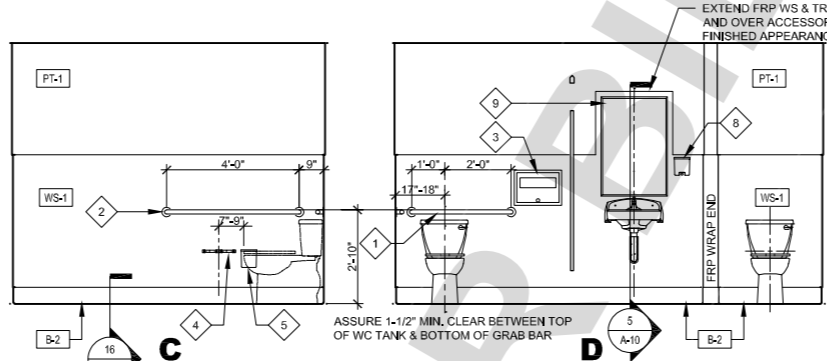
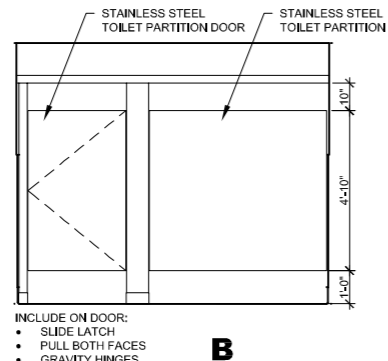
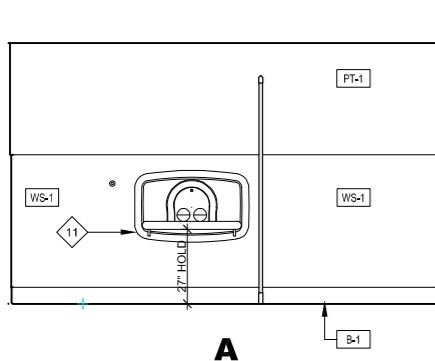


5 MEN
SCALE: 3/8"=1'-0"

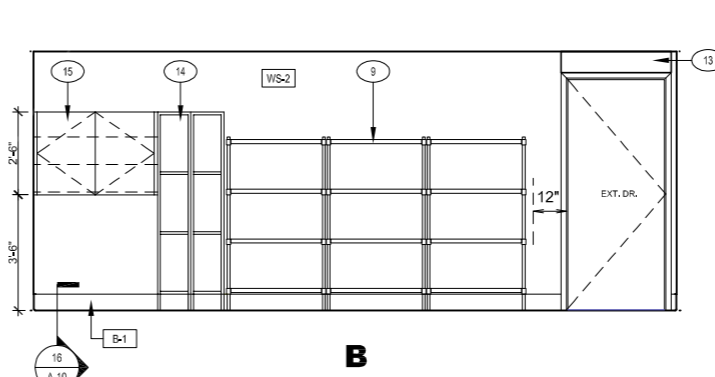
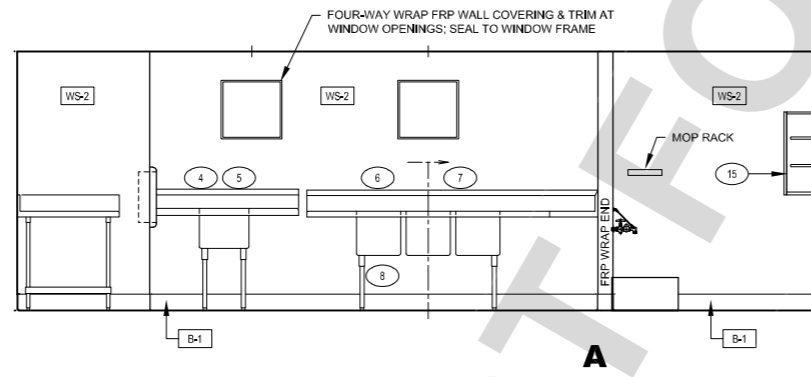
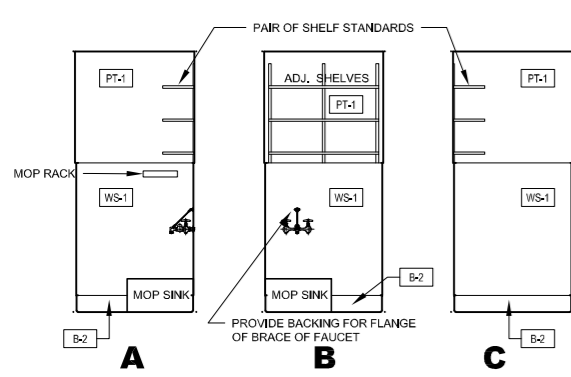
- INCLUDE ON DOOR:
- SLIDE LATCH
 - PULL BOTH FACES
 - GRAVITY HINGES
 - COAT HOOK, +48" MAX. A.F.F.



4 WOMEN
SCALE: 3/8"=1'-0"

- INCLUDE ON DOOR:
- SLIDE LATCH
 - PULL BOTH FACES
 - GRAVITY HINGES
 - COAT HOOK, +48" MAX. A.F.F.

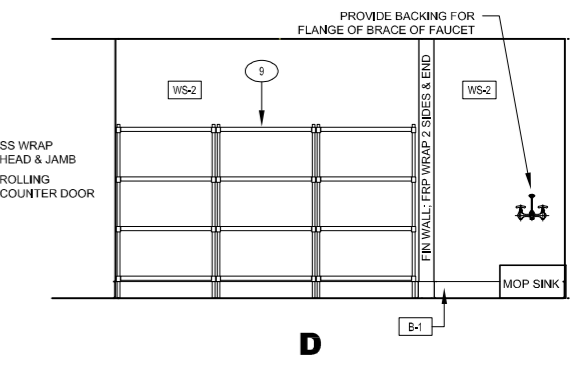
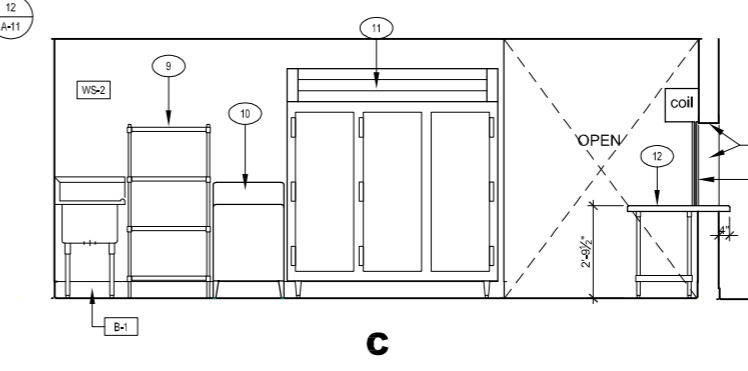
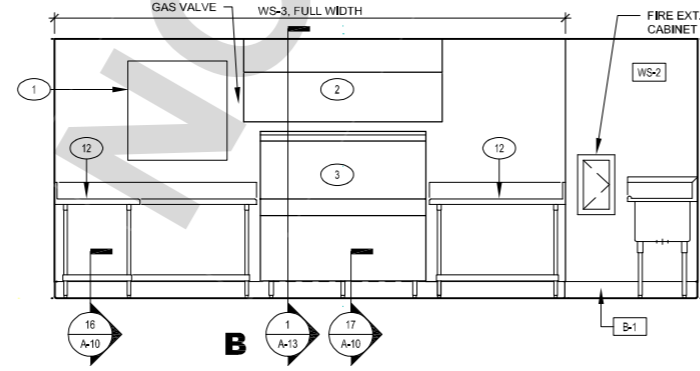
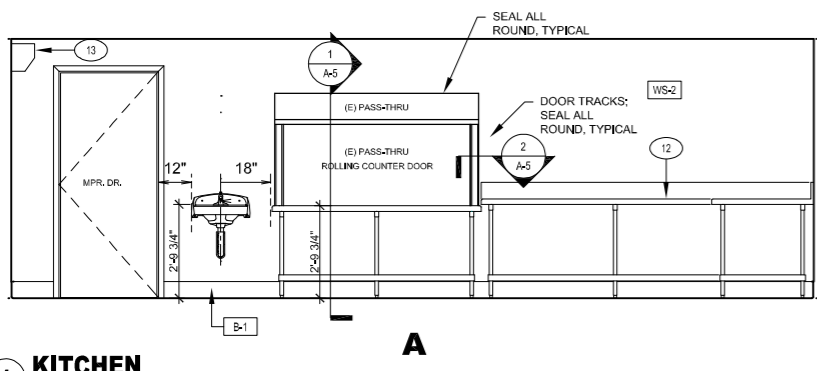
- INCLUDE ON DOOR:
- SLIDE LATCH
 - PULL BOTH FACES
 - GRAVITY HINGES
 - COAT HOOK, +48" MAX. A.F.F.



3 JAN.
SCALE: 3/8"=1'-0"

2 KITCHEN
SCALE: 3/8"=1'-0"

RESTROOM ACCESSORIES SCHEDULE			
NO.	DESCRIPTION	MFR	MODEL NO.
1	36" REAR GRAB BAR	BOBRICK	B-5806X36
2	48" SIDE GRAB BAR	BOBRICK	B-5806X48
3	SEAT COVER DISPENSER; RECESSED	BOBRICK	B-301
4	TOILET PAPER DISPENSER; SURFACE MOUNT	BOBRICK	B-27460
5	SANITARY NAPKIN DISPOSAL; SURFACE MOUNT	BOBRICK	B-5270
6	COMBO, SEAT COVER DISPENSER, SANITARY NAPKIN DISPOSAL; RECESSED	BOBRICK	B-35745
7	PAPER TOWEL DISP & WASTE REC.; SEMI-REC.	BOBRICK	B-43944
8	SOAP DISPENSER	BOBRICK	B-2013
9	FRAMED MIRROR 24"x36"	BOBRICK	B-290-2436
10	COAT HOOK W/ BUMPER	BOBRICK	B-212
11	BABY DIAPER CHANGING STATION; SEMI-RECESSED	KOALA KARE	KB310-SSRE



1 KITCHEN
SCALE: 3/8"=1'-0"

UNDERGROUND SERVICE ALERT
BENCHMARK:
Call: TOLL FREE
1-800-227-2600
OR
811
TWO WORKING DAYS BEFORE YOU DIG

BASIS OF BEARINGS:

SEAL ALL ROUND, TYPICAL
DOOR TRACKS: SEAL ALL ROUND, TYPICAL

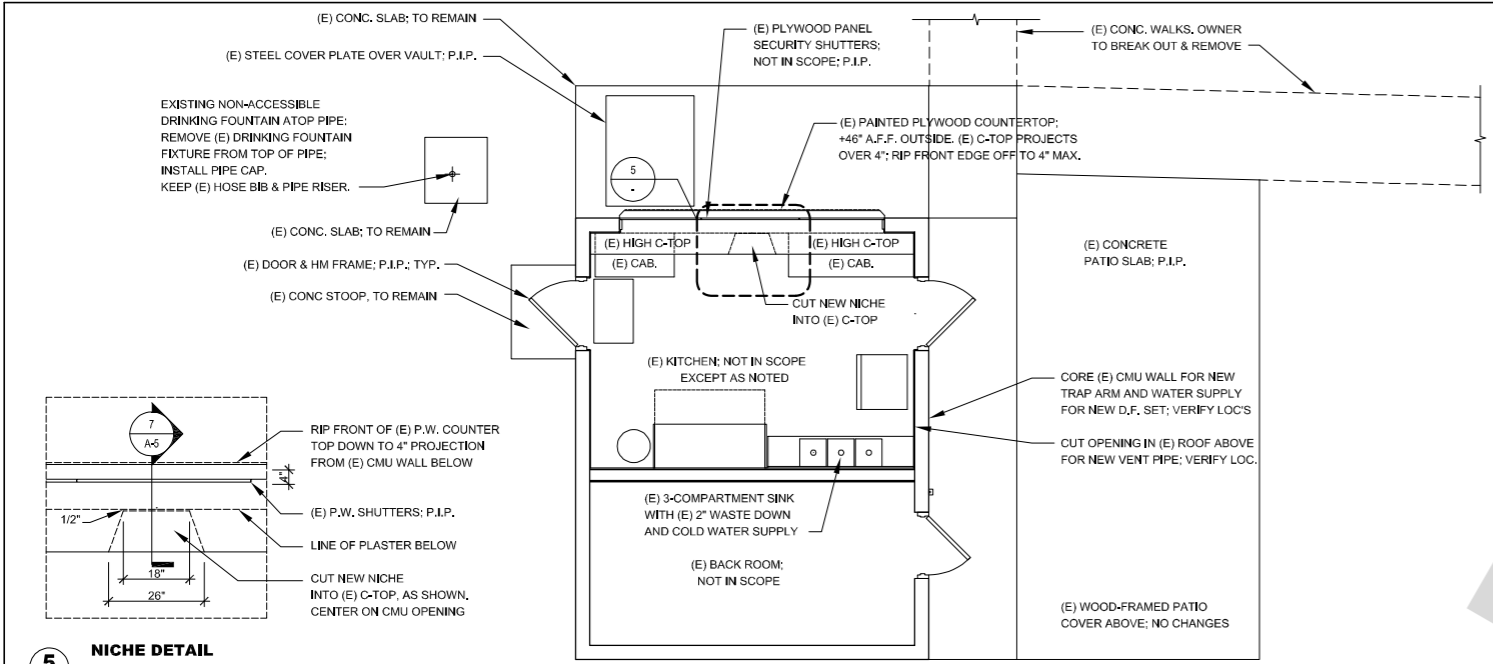


REVISIONS				
MARK	DATE	INITIAL	DESCRIPTION	APPR. DATE

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS
David R. Doublet
ASSISTANT DIRECTOR

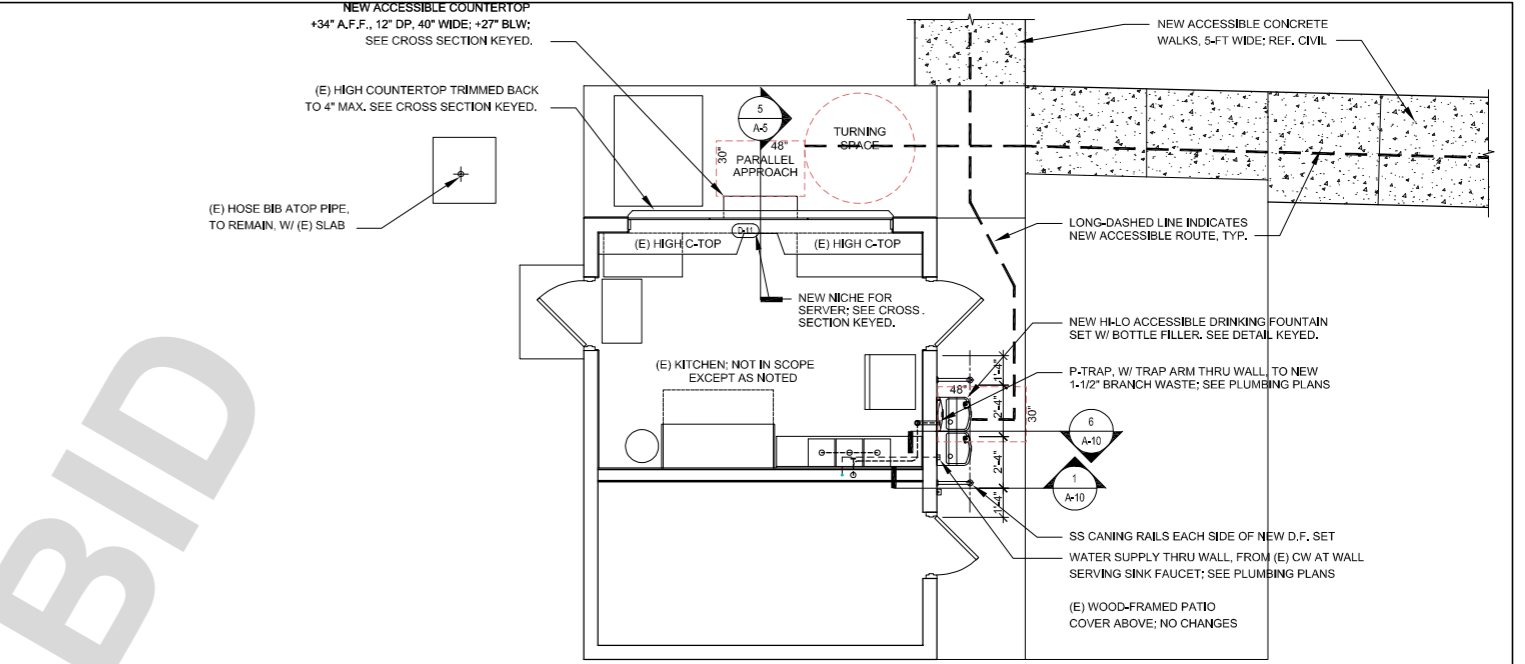
IMPROVEMENT PLANS
**CSA 29 LUCERNE VALLEY COMMUNITY CENTER
RENOVATION PROJECT
COMMUNITY CENTER INTERIOR ELEVATIONS**

DWG NO.
FILE NO.
SHEET **A-7**

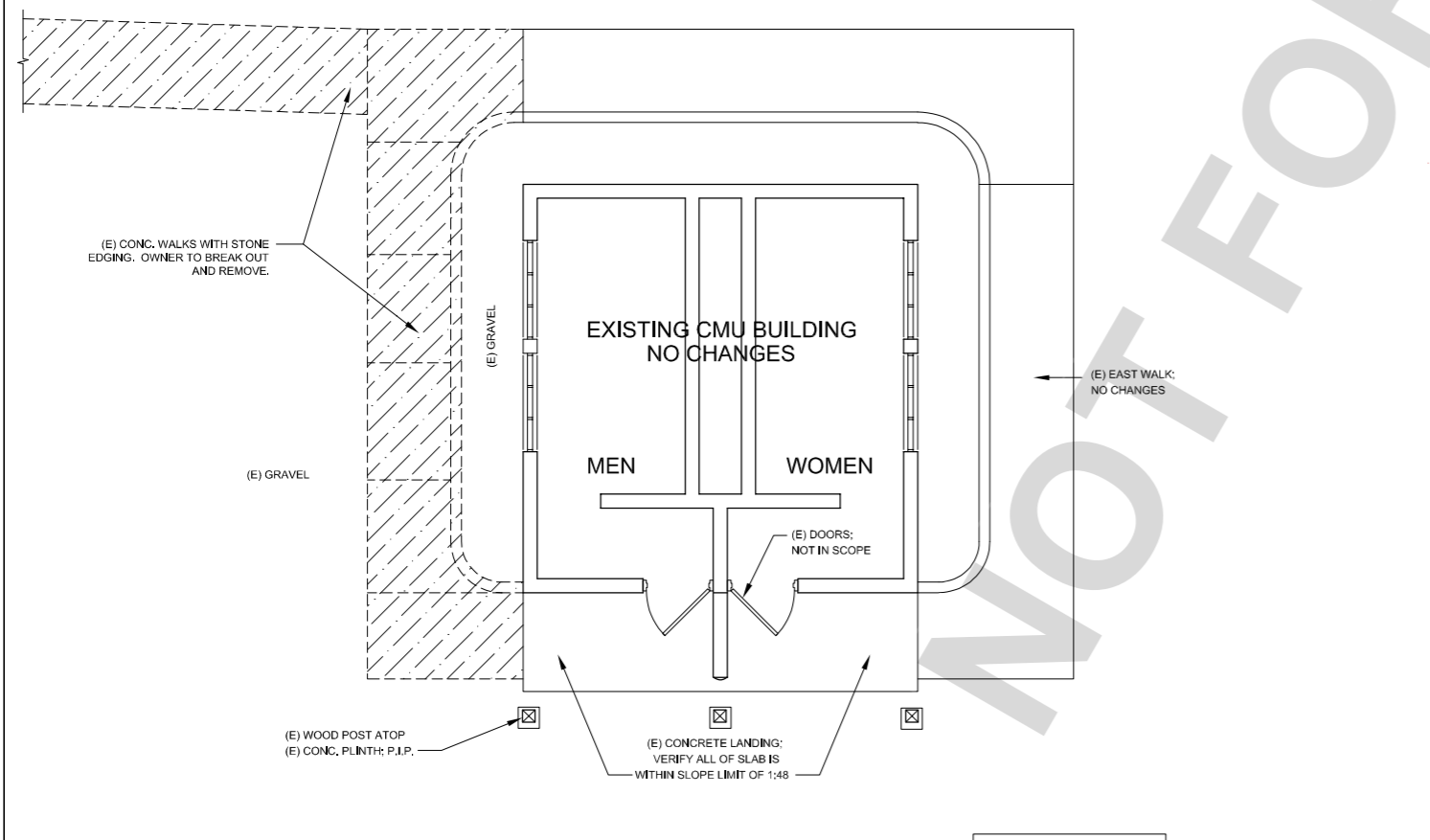


5 NICHE DETAIL
1/2"=1'

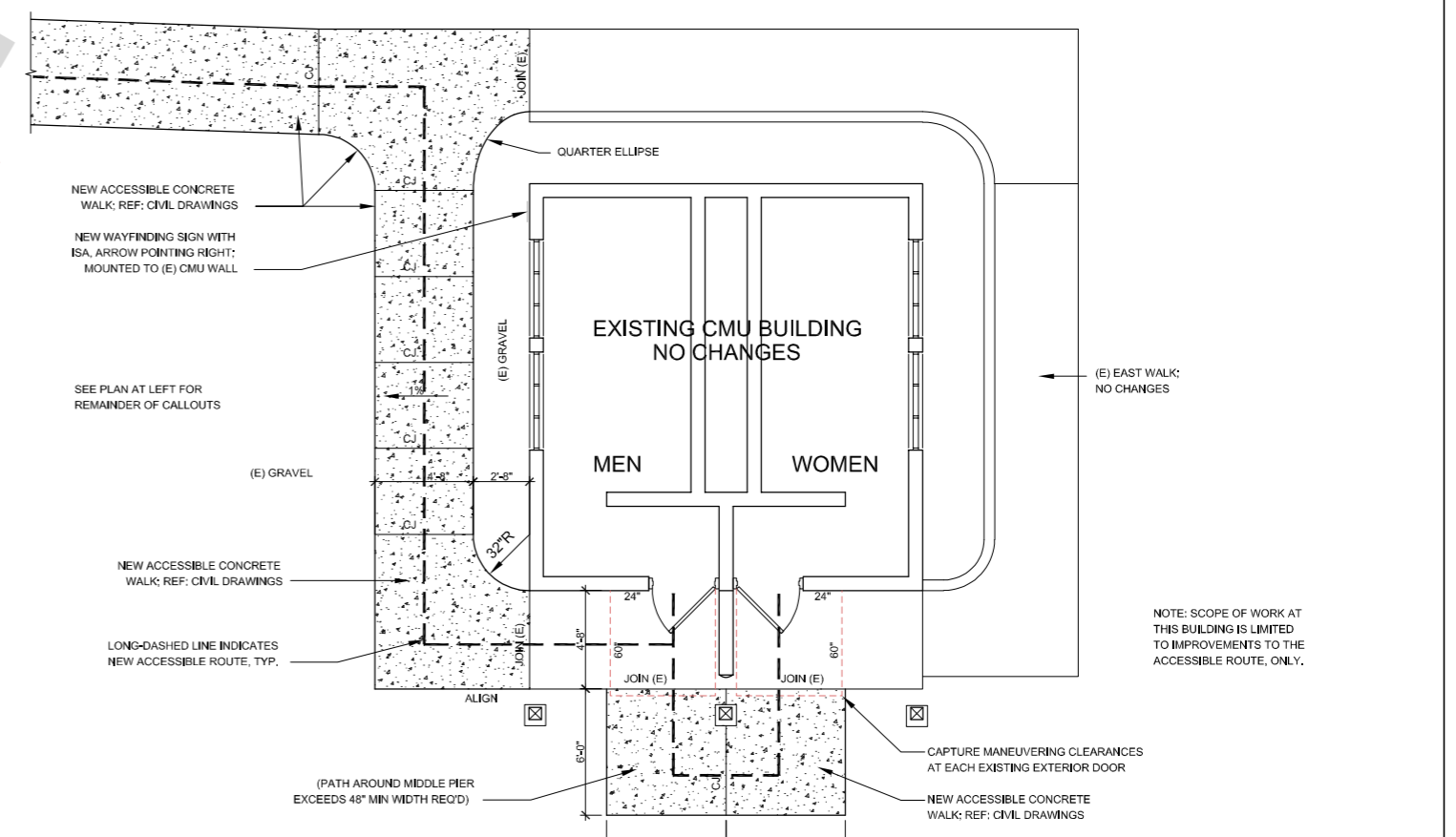
4 (E) SNACK SHACK: EXISTING / DEMO FLOOR PLAN
SCALE: 1/4"=1'-0"



2 (E) SNACK SHACK: ACCESSIBLE D.F. & COUNTER
SCALE: 1/4"=1'-0"



3 (E) CMU RESTROOM: EXISTING / DEMO FLOOR PLAN
SCALE: 1/4"=1'-0"



1 (E) CMU RESTROOM: ACCESSIBLE WALKS PLAN
SCALE: 1/4"=1'-0"

UNDERGROUND SERVICE ALERT
BENCHMARK:
Call: TOLL FREE
1-800-227-2600
OR
811
TWO WORKING DAYS BEFORE YOU DIG

BASIS OF BEARINGS:

SEE ALSO DEMOLITION NOTES, ON SHEET T-1.1



MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

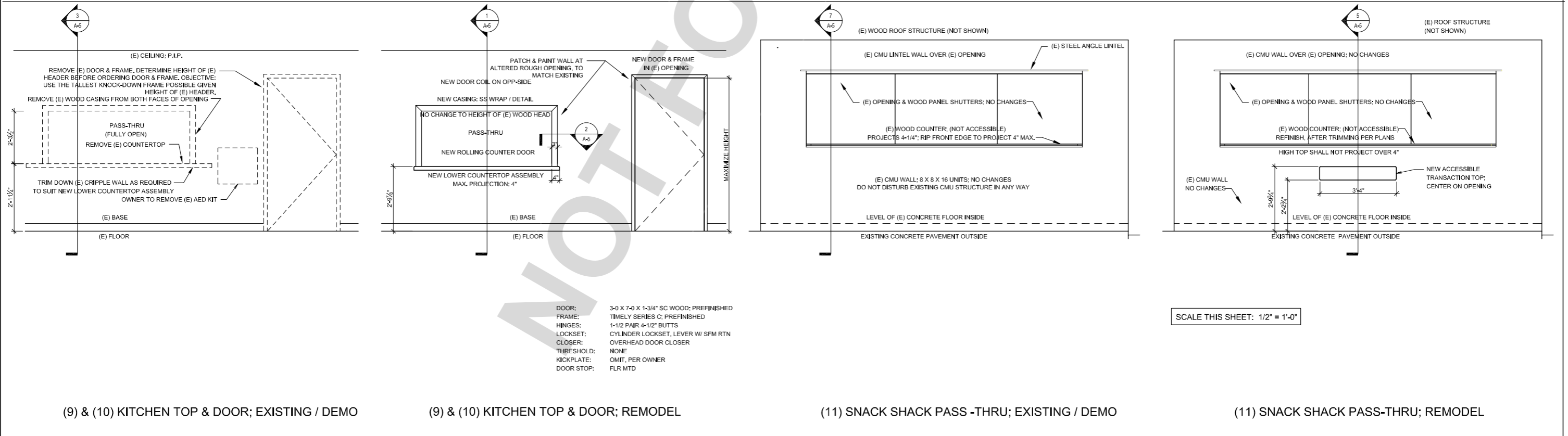
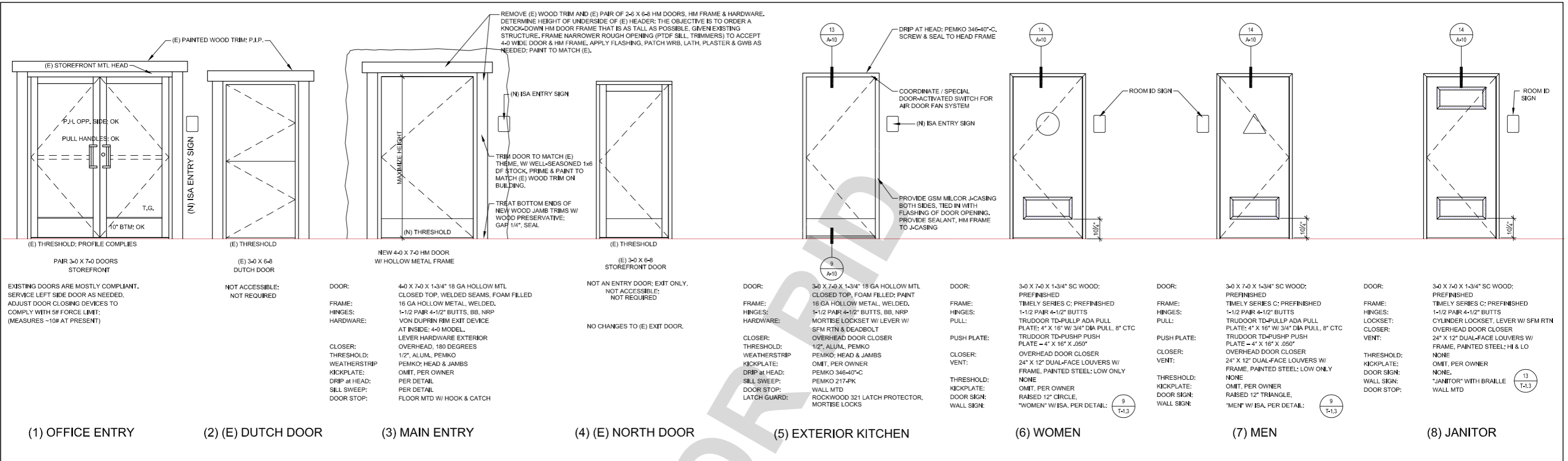
PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS

David R. Doublet
ASSISTANT DIRECTOR

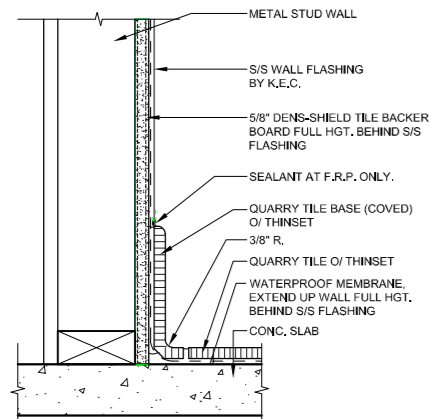
APPROVALS	PROJECT MANAGER	INITIAL	DATE
	Alfonso Fausto		
	Henry Mac		
	Noel Mondragon		

IMPROVEMENT PLANS
**CSA 29 LUCERNE VALLEY COMMUNITY CENTER
RENOVATION PROJECT
SNACK SHACK & R.R. BUILDINGS**

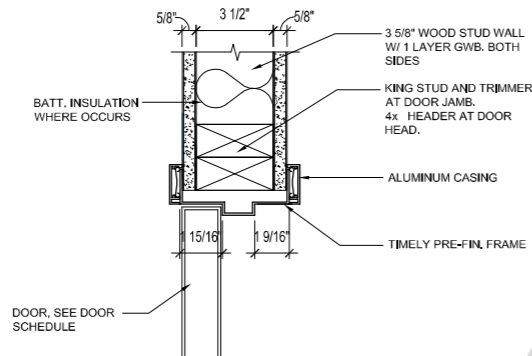
DWG NO.
FILE NO.
SHEET **A-8**



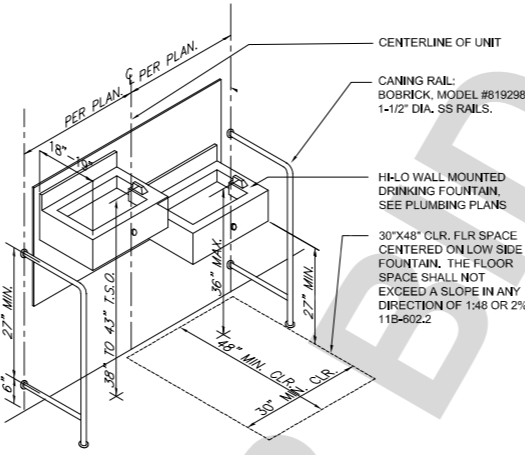
<p>UNDERGROUND SERVICE ALERT BENCHMARK: BASIS OF BEARINGS:</p>			REVISIONS		PLANS APPROVED BY: SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS David R. Doublet ASSISTANT DIRECTOR		IMPROVEMENT PLANS CSA 29 LUCERNE VALLEY COMMUNITY CENTER RENOVATION PROJECT DOOR SCHEDULE	DWG NO.	
			APPROVALS PROJECT MANAGER: Alfonso Fausto OPS. DIVISION MANAGER: Henry Mac PM, DIVISION MANAGER: Noel Mondragon	DATE INITIAL DATE	FILE NO.				
Call: TOLL FREE 1-800-227-2600 OR 811 TWO WORKING DAYS BEFORE YOU DIG			MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE	SHEET A-9



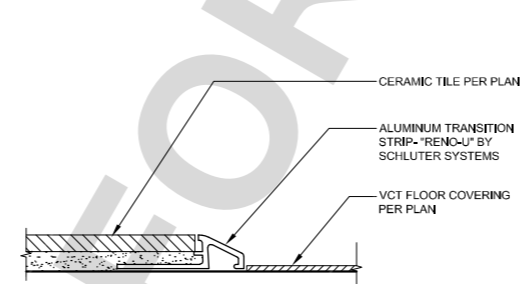
17 TILE BASE AT S.S. WALL FLASHING
SCALE: 3" = 1'-0"



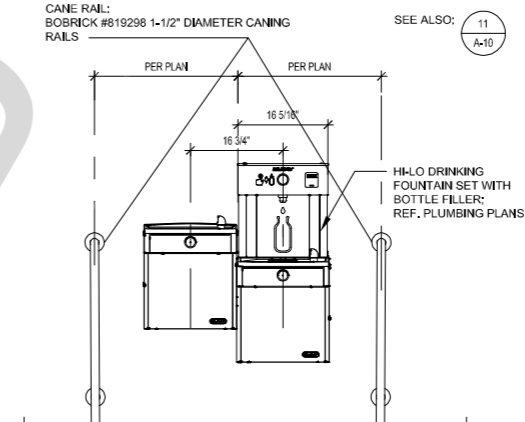
14 INTERIOR DOOR JAMB / HEAD SIM.
SCALE: 3" = 1'-0"



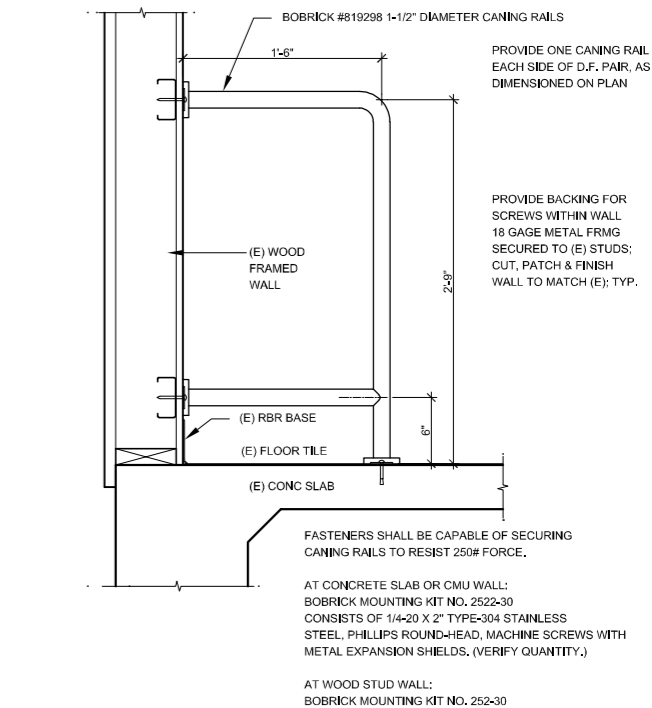
11 HI-LO DRINKING FOUNTAIN - ISOMETRIC
SCALE: N.T.S.



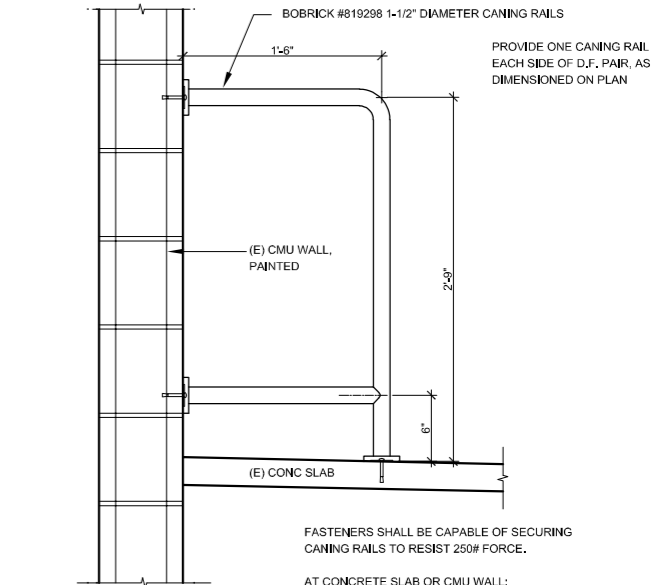
10 TILE TO VCT
SCALE: 6" = 1'-0"



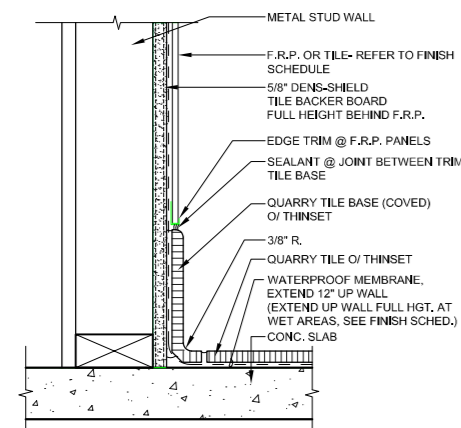
6 HI LO DRINKING FOUNTAIN W/ GUARDS
SCALE: 3/4" = 1'-0"



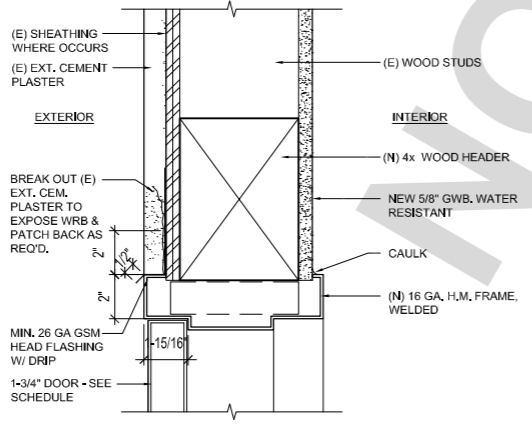
3 CANING RAILS AT MULTIPURPOSE RM.
SCALE: 1 1/2" = 1'-0"



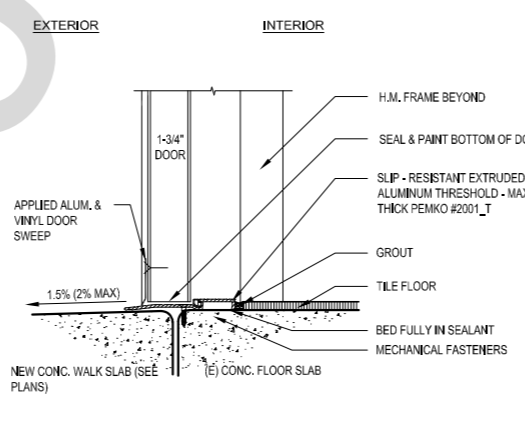
1 CANING RAILS AT SNACK SHACK
SCALE: 1 1/2" = 1'-0"



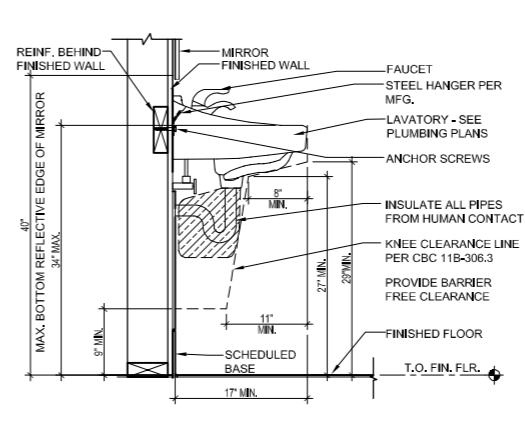
16 TILE BASE AT TILE/FRP WALL
SCALE: 3" = 1'-0"



13 NEW DOOR HEAD AT (E) WALL / JAMB SYM.
SCALE: 3/4" = 1'-0"



9 THRESHOLD DETAIL
SCALE: 3" = 1'-0"



5 SECTION AT WALL-HUNG LAVATORY
SCALE: 1" = 1'-0"

UNDERGROUND SERVICE ALERT
BENCHMARK:
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1-800-227-2600
OR
811
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BASIS OF BEARINGS:

STATE OF CALIFORNIA
C-24877
REN. 8/31/25

DESIGN GROUP
ARCHITECTURE
931.743.7176
2020 ADAMS STREET
STUNDO 4-409
RIVERSIDE, CA 92504
www.designgroup.com

MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

REVISIONS	DATE	DESCRIPTION

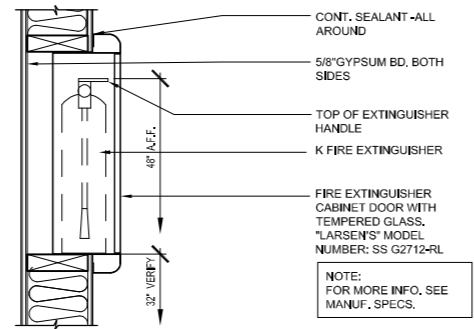
PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS
David R. Doublet
ASSISTANT DIRECTOR

APPROVALS	INITIAL	DATE
PROJECT MANAGER	Alfonso Fausto	
OPS. DIVISION MANAGER	Henry Mac	
PM, DIVISION MANAGER	Noel Mondragon	

IMPROVEMENT PLANS
CSA 29 LUCERNE VALLEY COMMUNITY CENTER
RENOVATION PROJECT
DETAILS

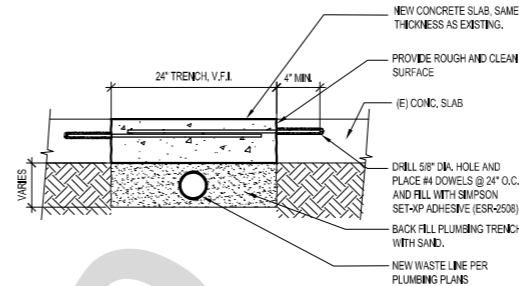
DWG NO.
FILE NO.
SHEET **A-10**

06-20-2024



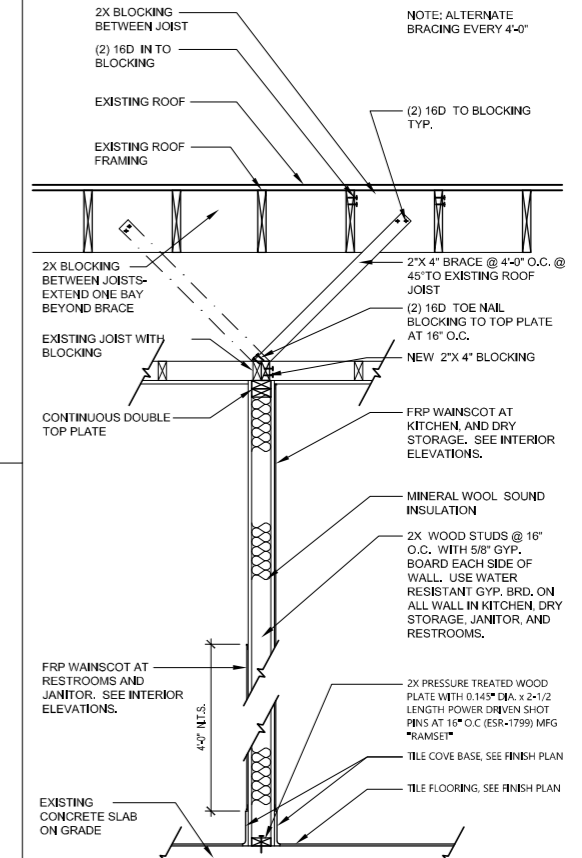
12 F.E.C. AT INTERIOR WALL

SCALE: 1/12" = 1'-0"



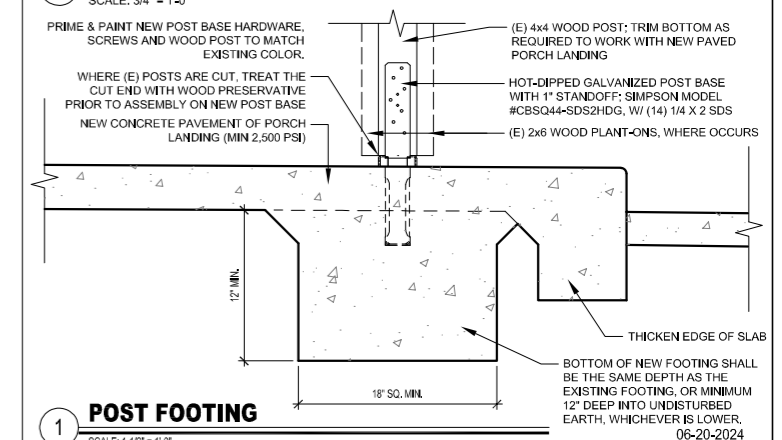
8 PLUMBING TRENCH

SCALE: 1/12" = 1'-0"



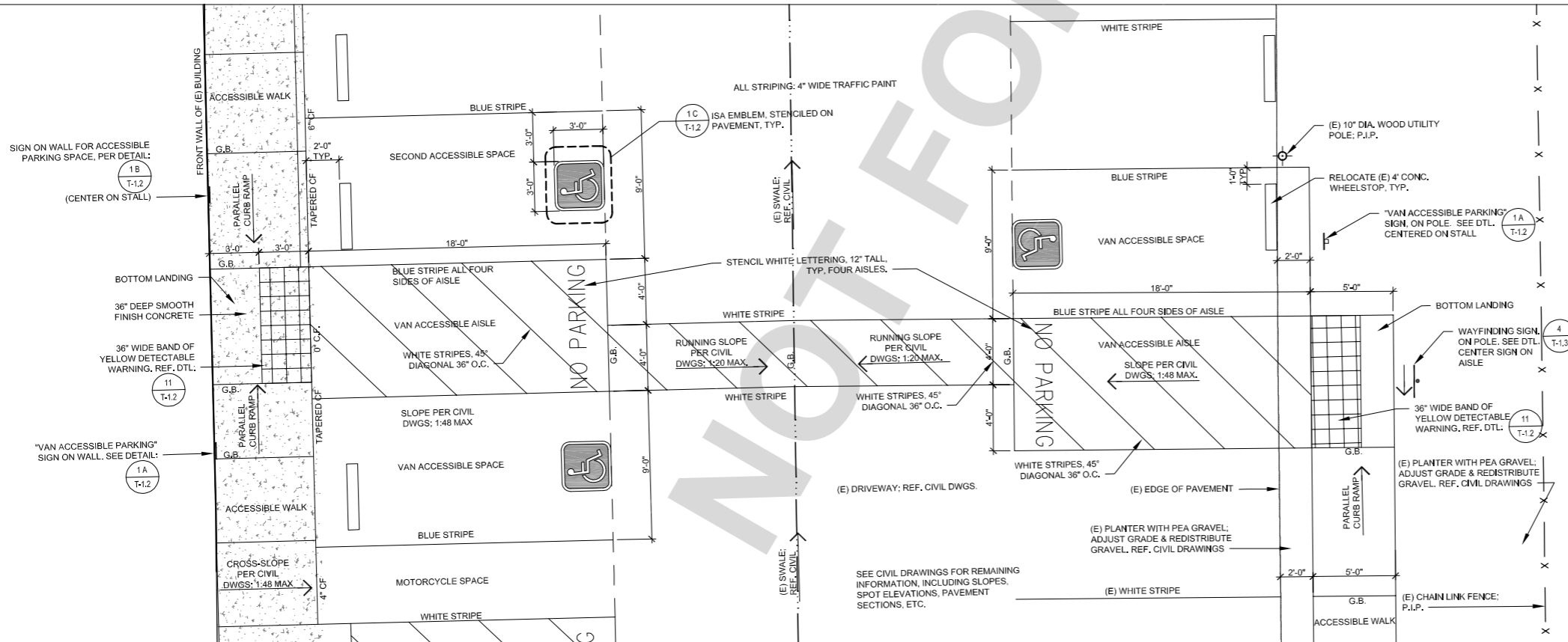
2 TYP. NON-BEARING PARTITION WALL

SCALE: 3/4" = 1'-0"



1 POST FOOTING

SCALE: 1/12" = 1'-0"



13 ACCESSIBLE PARKING STALLS

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

UNDERGROUND SERVICE ALERT

Call: TOLL FREE
1-800-227-2600
OR
811

TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:

BASIS OF BEARINGS:

SEAL OF ARCHITECT:
LUCAS WILLIAMS
C-24877
REN. 8/31/25
STATE OF CALIFORNIA

DESIGN GROUP ARCHITECTURE:
931.743.7199
6909 ADAMS STREET
SUITE 2400
RIVERSIDE, CA 92504
www.tranbridgegroup.com

REVISIONS:

MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS

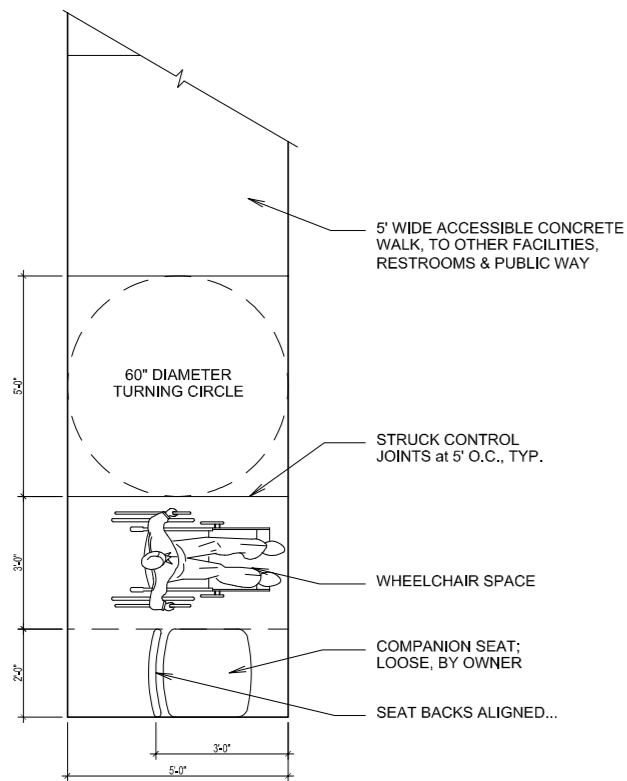
David R. Doublet
ASSISTANT DIRECTOR

APPROVALS	INITIAL	DATE
PROJECT MANAGER	Alfonso Fausto	
OPS. DIVISION MANAGER	Henry Mac	
PM. DIVISION MANAGER	Noel Mondragon	

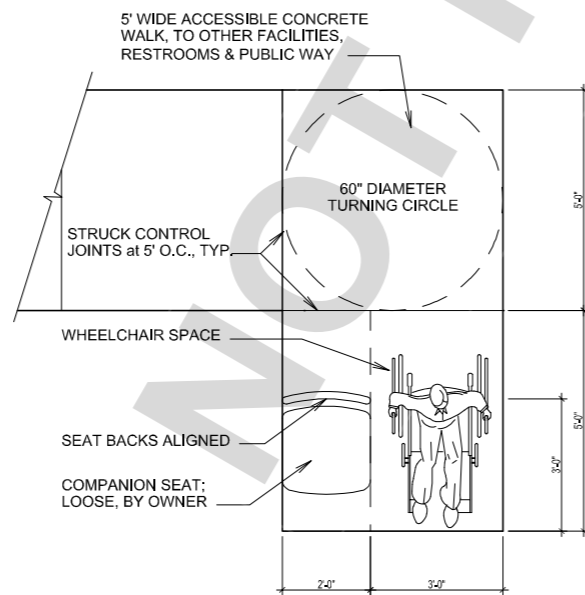
IMPROVEMENT PLANS

CSA 29 LUCERNE VALLEY COMMUNITY CENTER
RENOVATION PROJECT
DETAILS

DWG NO.
FILE NO.
SHEET **A-11**



13 ACC. SPACE AT BALL FIELD, SOUTH TERMINUS
SCALE: 1/2"=1'-0"



9 ACC. SPACE AT BALL FIELD, EAST TERMINUS
SCALE: 1/2"=1'-0"

2022 CALIFORNIA PLUMBING CODE:

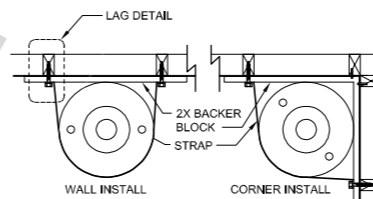
SECTION 507.2 SEISMIC PROVISIONS

WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION. STRAPPING SHALL BE AT POINTS WITHIN THE UPPER ONE THIRD (1/3) AND LOWER ONE-THIRD (1/3) OF ITS VERTICAL DIMENSIONS. AT THE LOWER POINT, A MINIMUM DISTANCE OF FOUR(4) INCHES (102 MM) SHALL BE MAINTAINED ABOVE THE CONTROLS WITH THE STRAPPING.

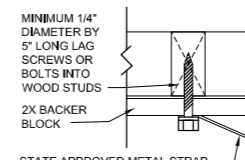
NOTE: [HCD 1 & HCD 2] REFERENCE HEALTH AND SAFETY CODE SECTION 19211(A) WHICH ADDRESSES NEW, REPLACEMENT, AND EXISTING WATER HEATERS.

NOTE: THE APPLICABLE SUBSECTION OF HEALTH AND SAFETY CODE SECTION 19211(A) WHICH ADDRESSES NEW, REPLACEMENT, AND EXISTING WATER HEATERS IS REPEATED HERE FOR CLARITY AND READS AS FOLLOWS:

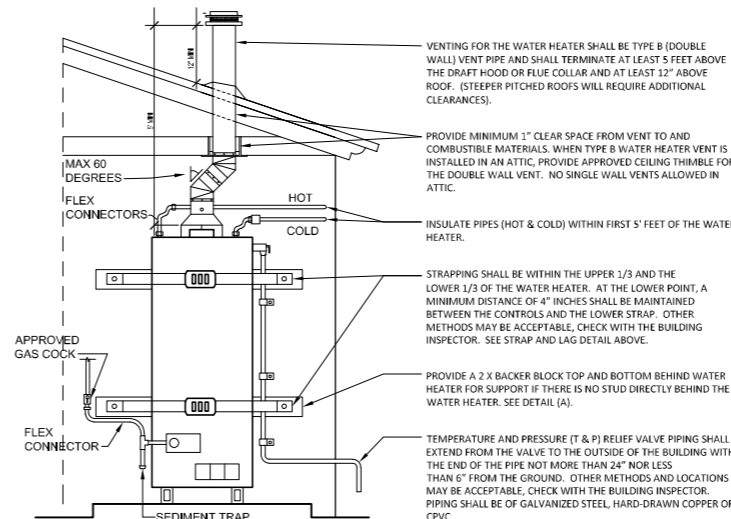
SECTION 19211(A) NOTWITHSTANDING SECTION 19100, ALL NEW AND REPLACEMENT WATER HEATERS, AND ALL EXISTING RESIDENTIAL WATER HEATERS SHALL BE BRACED, ANCHORED, OR STRAPPED TO RESIST FALLING OR HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION. AT A MINIMUM, ANY WATER HEATER SHALL BE SECURED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, OR MODIFICATIONS MADE THERETO BY A CITY, COUNTY, OR CITY AND COUNTY PURSUANT TO SECTION 17958.5.



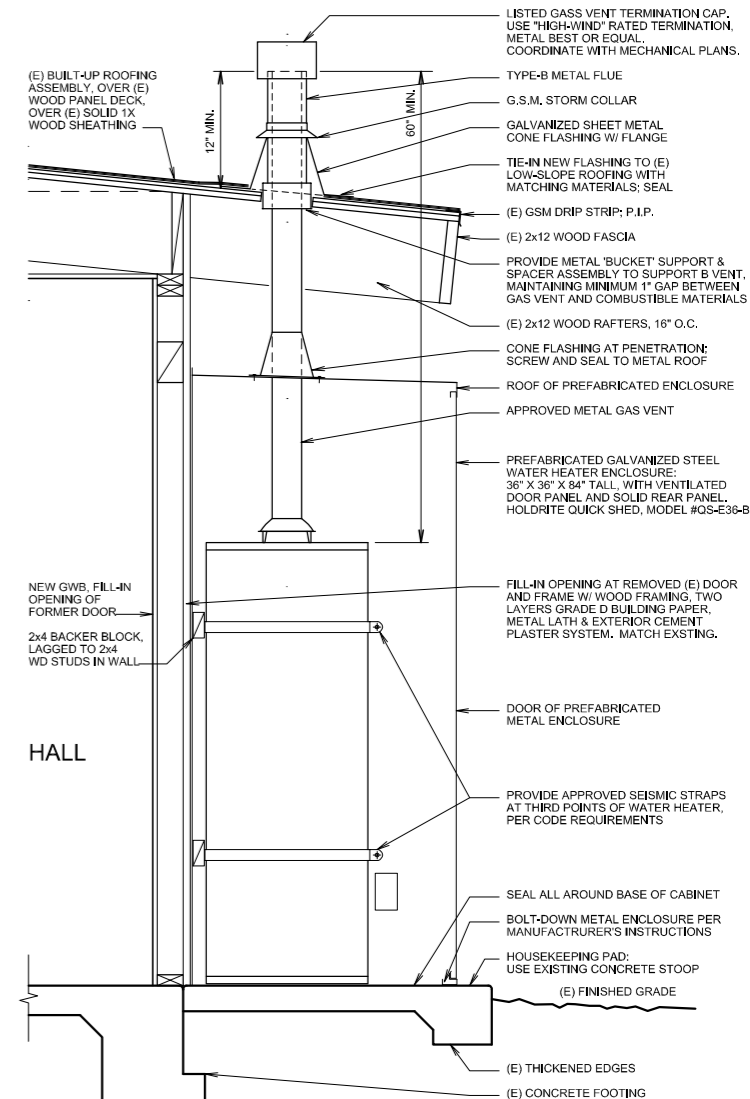
STRAPPING DETAIL



LAG DETAIL



5 WATER HEATER BRACING
SCALE: 1/2"=1'-0"



1 WATER HEATER & ENCLOSURE
SCALE: 1/2"=1'-0"

UNDERGROUND SERVICE ALERT
Call: TOLL FREE
1-800-227-2600
OR
811
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:
BASIS OF BEARINGS:

LICENSED ARCHITECT
THOMAS WILLIAM ROGUE
C-24877
REN. 8/31/25
STATE OF CALIFORNIA

DESIGN GROUP
ARCHITECTURE
951.743.7199
5909 ADAMS STREET
SUITE 4-409
RIVERSIDE, CA 92504
www.mrdesigngroup.com

MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS
David R. Doublet
ASSISTANT DIRECTOR

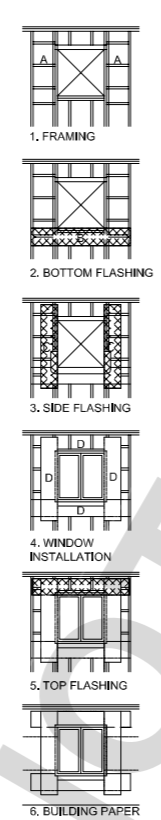
PROJECT MANAGER	INITIAL	DATE
Alfonso Fausto		
OPS. DIVISION MANAGER	Henry Mac	
PM, DIVISION MANAGER	Noel Mondragon	

IMPROVEMENT PLANS
CSA 29 LUCERNE VALLEY COMMUNITY CENTER
RENOVATION PROJECT
DETAILS

DWG NO.
FILE NO.
SHEET **A-12**

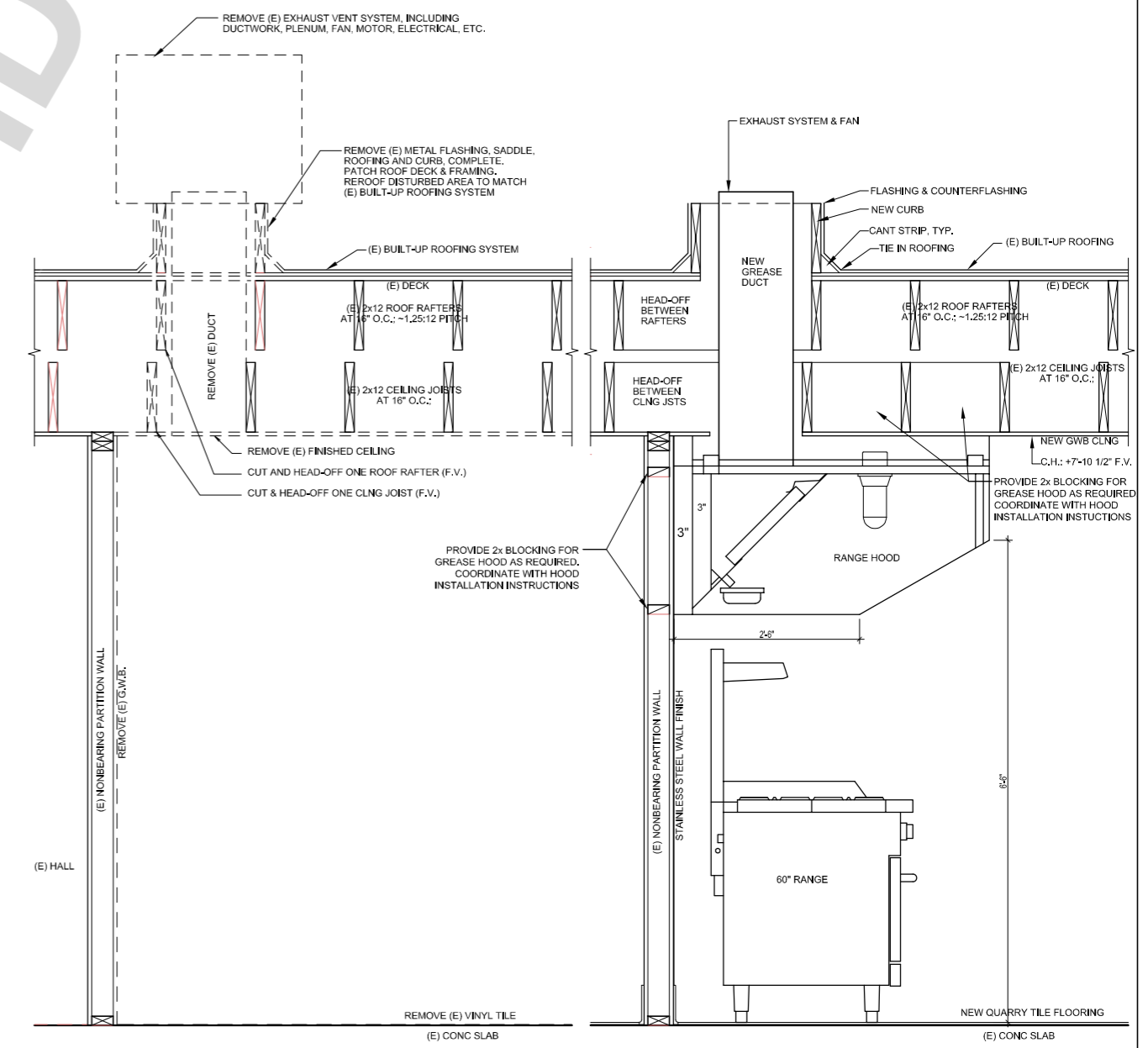
BID

- ALL BUILDING PAPER TO BE "SUPER JUMBO-TEX" BY FORTIFIBER OR APPROVED EQUAL, 60 MINUTE GRADED.
- ALL WINDOW FLASHING TO BE 12" WIDE "MOISTOP" BY FORTIFIBER OR APPROVED EQUAL.
- SELF-ADHERING SHEET FLASHING TO BE "ICE AND WATER SHIELD" OR APPROVED EQUAL.
- FRAMING - WHERE THE OPENING OCCURS IN A WALL WITHOUT EXTERIOR SHEATHING, THE BLOCKING MEMBERS (A) SHOULD BE INSTALLED AS NECESSARY TO SUPPORT THE OUTSIDE EDGES OF SIDE FLASHING. INSTALL APPROXIMATELY 16" O.C. BLOCKING MAY BE OMITTED WHEN A STUD IS INSTALLED TO SUPPORT THE OUTSIDE EDGE OF THE SIDE FLASHING.
 - BOTTOM FLASHING - APPLY THE FIRST STRIP OF FLASHING (B) HORIZONTAL, TIGHT TO THE BOTTOM OF THE WINDOW OPENING. EXTEND FLASHING GREATER THAN 12" PAST THE SIDES OF THE OPENING AND ATTACH TO THE NEXT AVAILABLE STUD. FASTEN ONLY THE TOP EDGE SO THAT SUBSEQUENT LAYERS OF THE BUILDING PAPER MAY BE LAPPED UNDER (SHINGLED).
 - INSTALL THE TWO SIDE (JAMB) FLASHING STRIPS (C) VERTICAL, TIGHT TO THE SIDES OF THE WINDOW OPENING. EXTEND FLASHING ABOVE THE TOP AND BELOW THE BOTTOM OF THE OPENING FOR A DISTANCE EQUAL TO AT LEAST THE WIDTH OF THE FLASHING STRIP. THE BOTTOMS OF THE VERTICAL SIDE STRIPS SHOULD LAP OVER THE BOTTOM HORIZONTAL STRIP AND SHOULD NOT BE NAILED SO THAT SUBSEQUENT LAYERS OF BUILDING PAPER MAY BE LAPPED UNDER (SHINGLED).
 - INSTALL THE WINDOW BY FIRMLY PRESSING THE NAIL FLANGE ONTO A CONTINUOUS, FULL CONTACT BED OF SEALANT (D) EXTENDING AROUND ALL FOUR SIDES OF THE WINDOW FLANGE. THE SEALANT BEAD (APPROX. 3/8" DIA.) SHOULD BE APPLIED TO THE BACK SIDE OF THE NAILING FLANGE PRIOR TO MOUNTING THE WINDOW UNIT. PLACE THE SEALANT IN LINE WITH PRE-PUNCHED HOLES AND SLOTS. THE WINDOW SHOULD THEN BE TRUED AND LEVELED. NAIL INTO PLACE PER MFR. INSTRUCTIONS. APPLY SEALANT ON THE OUTSIDE OF THE NAILING FLANGE ALONG THE SILL AND JAMB (NOT ON THE HEAD) AND TOOL SMOOTH.
 - INSTALL THE TOP (HEAD) FLASHING TO LAP OVER THE TOP NAILING FLANGE. APPLY A CANT OF SEALANT OVER THE EXTERIOR PORTION OF S.A.M. TO NAILING FLANGE INTERACTION.
 - STARTING AT THE BOTTOM OF THE WALL, INSTALL THE WATERPROOF BUILDING PAPER IN "SHINGLE" FASHION UP THE WALL. THE LAYER WHICH FALLS AT THE BOTTOM OF THE WINDOW OPENING SHOULD BE LAPPED UNDER THE BOTTOM FLASHING. SUCCESSIVE LAYERS OF BUILDING PAPER SHOULD LAP OVER THE SIDE NAILING FLANGES.



NOTE 1:
FLASHING SEQUENCE SHOWN SUPERCEDES TWO DIMENSION GRAPHICAL REPRESENTATIONS ON DETAILS THROUGHOUT THIS DRAWING SET

NOTE 2:
ENSURE SOLID BACKING IS PROVIDED FOR ALL WINDOW FLASHING (TYP). SLOPE SHELF OF RECESS AWAY FROM THE ROUGH OPENING.



9 EXISTING / DEMO
SCALE: N.T.S.

5 EXISTING / DEMO
SCALE: 1/4"=1'-0"

1 SECTION AT RANGE HOOD
SCALE: 1/4"=1'-0" 06-20-2024

UNDERGROUND SERVICE ALERT

Call: TOLL FREE
1-800-227-2600
OR
811

TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:

BASIS OF BEARINGS:

MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS

David R. Doublet
ASSISTANT DIRECTOR

PROJECT MANAGER	INITIAL	DATE
Alfonso Fausto		
OPS. DIVISION MANAGER	Henry Mac	
PM. DIVISION MANAGER	Noel Mondragon	

IMPROVEMENT PLANS

CSA 29 LUCERNE VALLEY COMMUNITY CENTER
RENOVATION PROJECT
DETAILS

DWG NO. _____
FILE NO. _____
SHEET **A-13**

HVAC NOTES AND SPECIFICATIONS

SECTION 1: SCOPE OF WORK

- NEW RESTROOM VENTILATION & NEW KITCHEN HOOD SYSTEM.
- DUCT WORK, ELBOYS, FITTINGS, & DUCT INSULATION.
- DIFFUSERS, REGISTERS, AND GRILLES
- HVAC CONTROL SYSTEMS.
- TESTING AND BALANCING.
- PERMIT AND INSPECTION.

SECTION 2: FEES, PERMITS & INSPECTIONS

- CONTRACTOR MUST PAY FEES AND OBTAIN PERMITS, LICENSES, INSPECTIONS, ETC, AS REQUIRED BY ANY LEGALLY CONSTITUTE AUTHORITY.
- CONTRACTOR SHALL NOT MAKE HIS WORK COVERED OR CLOSED UNTIL THE WORK HAS BEEN INSPECTED AND APPROVED BY ALL AUTHORITIES HAVING JURISDICTION. ANY EXPENSES FOR ADDITIONAL WORK DUE TO THE VIOLATION OF THIS REQUIREMENT WILL BE PAID BY THE CONTRACTOR.
- THIS DOCUMENT IS NOT FOR BID OR CONSTRUCTION UNTIL THE PLAN HAS BEEN REVIEWED AND APPROVED BY ALL AUTHORITIES HAVING JURISDICTION AND THE PERMIT IS OBTAINED. NO COMPENSATION WILL BE MADE FOR ADDITIONAL WORK DUE TO THE VIOLATION OF THIS REQUIREMENT.

SECTION 3: GENERAL REQUIREMENTS

- ANY EXISTING CONDITIONS ARE BASED ON LIMITED FIELD VERIFICATION. CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE TENANT.
- ALL CONTRACTORS SHALL REVIEW A COMPLETE SET OF CONSTRUCTION DOCUMENTS.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH DEMOLITION PRIOR TO BIDDING AND START OF WORK. CONTRACTOR IS RESPONSIBLE FOR DEMO OF ALL EXISTING ITEMS, AS REQUIRED, FOR INSTALLATION/CONSTRUCTION OF NEW WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. NO ADDITIONAL COMPENSATION WILL BE MADE FOR ANY EXTRA COSTS DUE TO CONTRACTOR'S FAILURE TO VISIT THE JOBSITE AND/OR PREDETERMINE ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT FOR RESOLUTION. NO EXCEPTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL UTILITY RUNS, UNDERGROUND AND ABOVE GROUND PIPING AND/OR OTHER IMPROVEMENTS LOCATED ON THE PREMISES. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL COSTS RELATING TO THE RELOCATION OF, DAMAGE TO, REPAIR OF ANY EXISTING UTILITY RUNS AND/OR IMPROVEMENTS WHICH ARE DAMAGED AS A RESULT OF WORK IN OR AROUND THE PREMISES.
- THE MECHANICAL CONTRACTOR SHALL INSPECT AND TEST RUN ALL EXISTING UNITS AT THE START OF CONSTRUCTION AND INFORM THE ARCHITECT OF ANY NECESSARY REPAIRS FOR APPROVAL IN A TIMELY MANNER TO NOT DELAY THE OPENING DATE.
- ALL APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE PER BUILDING CODE REQUIREMENTS OR APPLICABLE MANUFACTURER INSTALLATION REQUIREMENTS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENTS AS REQUIRED TO CONFORM TO THE STRUCTURE. AVOID OBSTRUCTIONS AND MAKE ALL EQUIPMENT REQUIRING MAINTENANCE OR REPAIR ACCESSIBLE.
- ALL EQUIPMENT FURNISHED SHALL FIT THE SPACE AVAILABLE WITH CONNECTIONS IN THE REQUIRED LOCATIONS AND WITH ADEQUATE SPACE FOR OPERATING AND SERVICING. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATE THE MANNER AND METHOD OF THE INSTALLATION WHILE THE SPECIFICATIONS AND EQUIPMENT LIST DENOTE THE TYPE AND QUALITY OF MATERIAL AND WORKMANSHIP TO BE USED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, WHERE A CONFLICT EXISTS BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT WHOSE DECISION SHALL BE FINAL. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR AFTER AWARD OF THE CONTRACT.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE LATEST FEDERAL, STATE AND LOCAL CODES (NFPA, UBC, UMC AND LOCAL BODIES HAVING JURISDICTION), APPLICABLE CODE: CMC 2022, CPC 2022, CALIFORNIA ENERGY EFFICIENCY CODE 2022, CALIFORNIA ELECTRICAL CODE 2022.
- THE CONTRACTOR SHALL COOPERATE WITH THE OTHER TRADES SO THAT THE INSTALLATION OF ALL EQUIPMENT MAY BE PROPERLY COORDINATED.
 - DISCONNECT SWITCHES & LINE VOLTAGE CONNECTIONS (BY ELECTRICAL)
 - ALL LINE VOLTAGE WIRING AND CONDUIT (BY ELECTRICAL)
 - CONDENSATE PIPING (PLUMBING)
- ALL ROOFING WORK SHALL BE PERFORMED BY A DULY LICENSED ROOFING CONTRACTOR, WORKING UNDER THE GENERAL CONTRACTOR.
- DISPOSE OF ALL EQUIPMENT NOT REUSED AS A PART OF THE NEW WORK AS DIRECTED BY THE OWNER.
- ALL ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES WITH 3" HIGH WEATHERPROOF VINYL LETTERS.
- ALL APPLIANCE AND PLUMBING VENTS AND THE DISCHARGE OUTLET OF EXHAUST FANS SHALL BE AT LEAST TEN (10) FEET IN A HORIZONTAL DIRECTION, OR THREE(3) FEET ABOVE THE OUTSIDE-AIR INTAKES FOR HVAC UNITS.

- MATERIALS EXPOSED WITHIN DUCTS OR FLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAMESPREAD RATINGS NOT GREATER THAN TWENTY-FIVE(25) AND A SMOKE DEVELOPED RATINGS NOT GREATER THAN HUNDRED FIFTY(50) WHEN TESTED AS A COMPOSITE PER APPLICABLE TESTING STANDARD.
- AFTER INSTALLING WALL, CEILING, OR FLOOR INSULATION, THE INSTALLER SHALL MAKE AVAILABLE TO THE ENFORCEMENT AGENCY OR POST IN A CONSPICUOUS LOCATION IN THE BUILDING A CERTIFICATE SIGNED BY THE INSTALLER STATING THAT THE INSTALLATION IS CONSISTENT WITH THE PLANS AND SPECIFICATIONS DESCRIBED IN SEC. 10.109(A)2A. THE CERTIFICATE SHALL ALSO STATE THE MANUFACTURER'S NAME, MATERIAL IDENTIFICATION, AND THE INSTALLED R-VALUE.
- INSTALL DUCT INSULATION ONLY AFTER DUCTWORK HAS BEEN INSPECTED AND APPROVED.
- REGISTERS, GRILLES, AND DIFFUSERS SHALL BE INSTALLED ONLY AFTER ALL CEILINGS AND WALLS ARE FINISHED INCLUDING FINAL PAINTING. CEILING MOUNTED UNITS SHALL BE INSTALLED WITH RIMS TIGHT AGAINST CEILING. WALL MOUNTED UNITS SHALL BE INSTALLED AT LEAST 6 INCHES BELOW THE CEILING UNLESS OTHERWISE NOTED. DAMPERS PROVIDED WITH DIFFUSERS AND REGISTERS SHALL NOT BE USED FOR SYSTEM BALANCING. INSIDE OF DUCT, BEHIND SEE-THROUGH REGISTERS AND GRILLES SHALL BE PAINTED BLACK.
- ROUND SHEET METAL DUCTS SUSPENDED IN THE AIR SHOULD BE SUPPORTED BY HANGERS AT LEAST EVERY 10 FEET. FLEXIBLE DUCTS SUSPENDED IN THE AIR SHOULD BE SUPPORTED AT LEAST EVERY 4 FEET BY STRAPS THAT ARE AT LEAST 1-1/2" TO 1-3/4" INCHES WIDE, AND THEY SHOULD NOT SAG MORE THAN 1/2" FOR EACH FOOT OF DISTANCE BETWEEN THE SUPPORTS. STRAPS USED ON FLEXIBLE DUCTS SHOULD NOT CONSTRICT THE INNER DIAMETER OF THE DUCT OR CUT THE OUTER JACKET.
- DUCT SLEEVES AND PREPARED OPENINGS SHALL BE PROVIDED WHERE DUCTS PENETRATE FLOORS, WALLS, CEILING OR ROOFS, AND SHALL BE INSTALLED DURING CONSTRUCTION OF THE FLOOR, WALL, CEILING OR ROOF. MECHANICAL CONTRACTOR SHALL COORDINATE LOCATION OF ALL DUCT PENETRATIONS OF STRUCTURE WITH GENERAL CONTRACTOR.
- DUCT SLEEVES SHALL BE FABRICATED FROM MINIMUM 20 GAUGE GALVANIZED SHEET STEEL. SLEEVE SHALL HAVE ONE(1) INCH CLEARANCE BETWEEN THE DUCT AND THE SLEEVE, OR ONE(1) INCH CLEARANCE BETWEEN THE INSULATION AND THE SLEEVE FOR INSULATED DUCTS. DUCT SLEEVES EMBEDDED IN CONCRETE SHALL BE CONSTRUCTED OF 1/4 INCH THICK CARBON STEEL PLATE, AND SHALL BE WELDED IN ACCORDANCE WITH AWS D11.
- DEMAND CONTROL VENTILATION DEVICES (CO2 SENSORS) SHALL BE INSTALLED IN ACCORDANCE WITH CMC, 12(C)4.

SECTION 4: PRODUCTS

- THERMOSTAT SHALL BE INSTALLED WITH 7-DAY PROGRAMMABLE AUTO-CHANGE OVER FEATURE. MOUNTING HEIGHT IS 4 FEET ABOVE FINISHED FLOOR TO TOP OF J-BOX.
- ALL AIR DISTRIBUTION SYSTEM DUCTS AND FLENUMS, INCLUDING, BUT NOT LIMITED TO, BUILDING CAVITIES, MECHANICAL CLOSETS, AIR-HANDLER BOXES AND SUPPORT PLATEFORMS USED AS DUCTS OR FLENUMS, SHALL BE INSTALLED, SEALED AND INSULATED TO MEET THE REQUIREMENTS OF CHAPTER 6 OF THE CALIFORNIA MECHANICAL CODE. SUPPLY-AIR AND RETURN-AIR DUCTS CONVEYING HEATED OR COOLED AIR SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-8, UNLESS NOTED OTHERWISE. INSULATION IS NOT REQUIRED ON LINED DUCTS AND DUCTS EXPOSED TO CONDITIONED SPACE. PROVIDE RFI TO ENGINEER BEFORE CLASSIFYING THE SPACE AS CONDITIONED SPACE. NO COMPENSATION WILL BE MADE IF THE CONTRACTOR FAILS TO VERIFY.
- DUCT FLENUM SHALL BE GALVANIZED STEEL DUCT. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK, SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, OR TAPS, TAPS AND MASTICS USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL181A OR UL181B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS. (IECC 2021)
- FLEXIBLE DUCTWORK SHALL BE IN ACCORDANCE WITH UL181 AND NFPA 90A AND NFPA 90B. ALL TAKEOFFS FROM MAIN AND BRANCH DUCT SHALL BE 45° TAPS WITH VOLUME DAMPERS AS SHOWN ON THE DRAWINGS. GLASS-FLEX TYPE DUCT MAY BE USED AT ENTRANCE TO DIFFUSERS BUT MUST BE NO GREATER THAN 5'-0" IN LENGTH.
- DUCT SUPPORTS AND HANGERS: PROVIDE HANGERS AND SUPPORTS OF STEEL SHAPES AND ROPS CONFORMING TO ASTM A36/A36M, GALVANIZED IN ACCORDANCE WITH ASTM A123. HARDWARE FOR HANGERS AND SUPPORTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153/A153M. HANGERS AND SUPPORTS SHALL BE FABRICATED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, AND SMACNA HVAC SYSTEMS DUCT DESIGN.
- BUILDING ATTACHMENT: CONCRETE INSERTS, POWER-ACTUATED FASTENERS, OR STRUCTURAL STEEL FASTENERS APPROPRIATE FOR BUILDING MATERIALS. DO NOT USE POWDER-ACTUATED CONCRETE FASTENERS FOR LIGHTWEIGHT AGGREGATE CONCRETES OR FOR SLABS LESS THAN 4 INCHES THICK.
- STRAPS AND ROD SIZES: CONFORM WITH TABLE 4-1 IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, FOR SHEET STEEL WIDTH AND GAUGE AND STEEL ROD DIAMETERS.

- DUCT ATTACHMENTS: SHEET METAL SCREWS, BLIND RIVETS, OR SELF-DRILLING, SELF-TAPPING METAL SCREWS, COMPATIBLE WITH DUCT MATERIALS.
- KITCHEN HOOD EXHAUST DUCTWORK: FABRICATE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE AND NFPA 96. CONSTRUCT OF 16 GAUGE STAINLESS STEEL, USING CONTINUOUS EXTERNAL WELDED JOINTS. TYPE II EXHAUST DUCTS TO BE STAINLESS STEEL.
- VOLUME DAMPERS: PROVIDE VOLUME DAMPERS IN DUCTS CONSTRUCTED OF 22 GAUGE GALVANIZED FOR DUCTS SMALLER THAN 11 INCHES, 20 GAUGE FOR DUCTS SMALLER THAN 21 INCHES, AND 16 GAUGE FOR DUCTS LARGER THAN 21 INCHES. PROVIDE LOCKING QUADRANTS AS REQUIRED. MANUALLY ADJUSTABLE BALANCING DAMPERS SHALL BE PROVIDED TO SUPPLY, RETURN AND EXHAUST DUCTS AT POINTS WHERE BRANCHES ARE TAKEN FROM LARGER DUCTS AND IN BRANCH DUCT TO INDIVIDUAL DIFFUSERS, GRILLES, AND REGISTERS. 1. DAMPER AXLES SHALL BE CONTINUOUS SQUARE RODS NOT SMALLER THAN 3/8-INCH, WITH MACHINED ENDS AND BEARING AT BOTH ENDS. 2. SINGLE-BLADE DAMPER SHALL BE PROVIDED FOR DUCT SIZES UP TO 18 INCH; MULTIBLADE DAMPERS OF OPPOSED BLADE PATTERN SHALL BE PROVIDED FOR DUCT SIZE LARGER THAN 18 INCH.
- T-BAR CEILING SUPPLY DIFFUSER: KRUEGER MODEL 6500 OR APPROVED EQUAL.
- T-BAR CEILING RETURN DIFFUSER: KRUEGER MODEL 6640 OR APPROVED EQUAL.
- DUCT HEATER: WHERE ELECTRICAL HEATER ARE INSTALLED IN AIR DUCTS, THE DUCT SHALL BE INSULATED WITH NONCOMBUSTIBLE INSULATION EXTENDING IN EACH DIRECTION FROM THE HEATER. DISTANCE SHALL BE AS RECOMMENDED BY THE HEATER MANUFACTURER.
- LINED EXPOSED EXTERIOR DUCTWORK SHALL BE 2" THICK, 15PCF DENSITY LINING. DUCT SIZE SHOWN ON PLAN SHALL REFER TO OUTER DIMENSIONS UNLESS SPECIFIED OTHERWISE.
- VOLUME DAMPER MUST BE INSTALLED AT BRANCH TAKE-OFF FROM MAIN SUPPLY DUCT. PROVIDE YOUNG REGULATOR CABLES FOR ADJUSTMENT OF VOLUME DAMPERS IN HARD LID CEILING WHERE ACCESS PANELS ARE NOT PROVIDED.

SECTION 5: EQUIPMENT SUBMITTALS

SUBMITTALS FOR MECHANICAL EQUIPMENTS SHALL BE SUBMITTED TO ARCHITECT AND ENGINEER FOR APPROVAL BEFORE ORDERING SUCH EQUIPMENTS. NO EXCEPTION.

SECTION 6: TESTING

- AFTER COMPLETION OF WORK, TESTS ON THE HVAC SYSTEMS, INCLUDING A DUCT LEAKAGE TEST, AND ON AIR BALANCE PERFORMANCE ARE REQUIRED. THE AIR QUALITY RESULTS SHOULD CONFORM WITH THE VOLUME SHOWN ON THE PLAN. PROVIDE ALL NECESSARY TESTING EQUIPMENTS AND LABORS AT NO COST TO THE OWNER.
- THE TESTED AIR QUALITY SHOULD BE WITHIN 5% OF THE DESIGN VALUE INDICATED ON PLANS. NOTIFY ENGINEER IMMEDIATELY IF AIR QUALITY IS OUT OF THE RANGE. NO EXCEPTION.

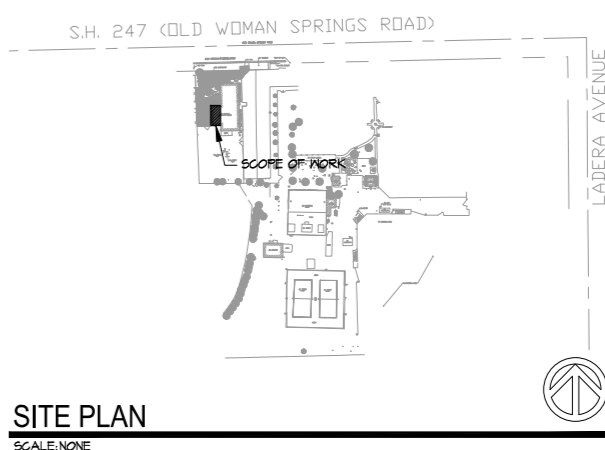
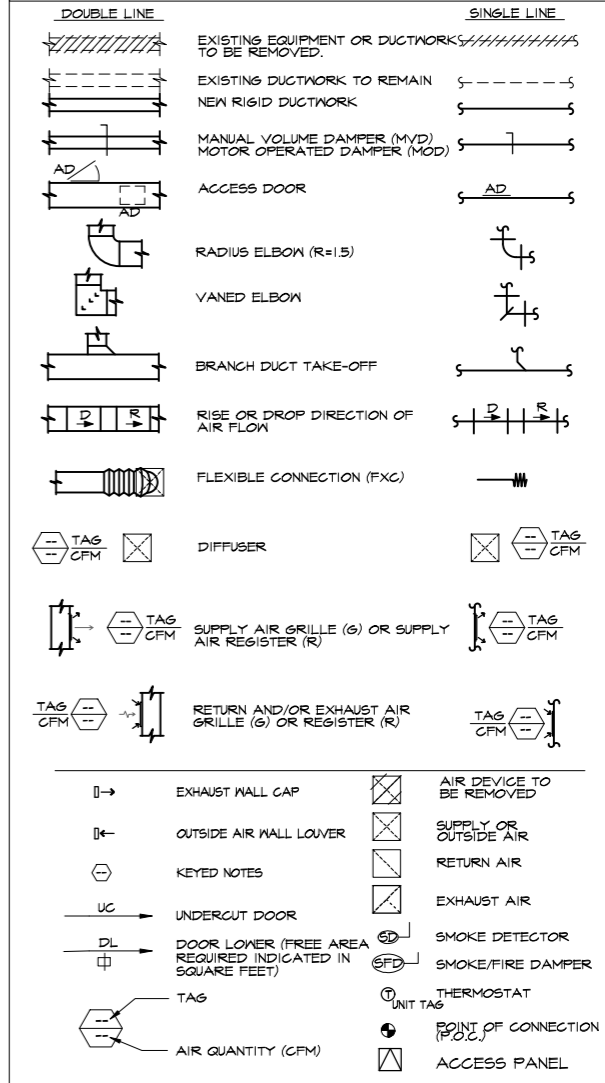
SECTION 7: OPERATING INSTRUCTIONS

- THE BUILDER SHALL PROVIDE THE BUILDING OWNER OR PERSON(S) RESPONSIBLE FOR BUILDING MAINTENANCE (IN CASE OF MULTI-TENANT OR CENTRALLY OPERATED BUILDINGS) AT OCCUPANCY THE FOLLOWING:
 - OPERATING INFORMATION: THE APPROPRIATE CERTIFICATE(S) OF COMPLIANCE AND A LIST OF THE FEATURES, MATERIALS, COMPONENTS, AND MECHANICAL DEVICES INSTALLED IN THE BUILDING AND INSTRUCTIONS ON HOW TO OPERATE THEM EFFICIENTLY.
 - MAINTENANCE INFORMATION: REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ACCESSIBLE LABEL. THE LABEL MAY BE LIMITED TO IDENTIFYING THE OPERATION AND MAINTENANCE MANUAL.
 - VENTILATION INFORMATION: A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND REGENERATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.
- CONTRACTOR SHOULD PREPARE AT LEAST THREE SETS MANUALS, COVERING 1. OIL AND LUBRICATION INSTRUCTIONS 2. PARTS SCHEDULE AND REPLACEMENT INSTRUCTIONS 3. AIR FLOW AND AIR BALANCE REPORT.

SECTION 8: WARRANTY

- THE CONTRACTOR SHALL PROVIDE OWNER WITH A WRITTEN MINIMUM TWO (2) YEAR MANUFACTURING WARRANTY ON ALL HVAC EQUIPMENT PROVIDED AND/OR INSTALLED. THE WARRANTY SHALL INCLUDE ALL LABOR, MATERIALS, AND THREE (3) ROUTING SERVICES WITH FILTER CHANGES DURING A ONE (1) YEAR PERIOD.

DUCT WORK SYMBOLS



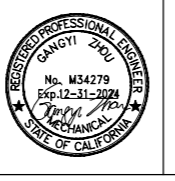
UNDERGROUND SERVICE ALERT

Call: TOLL FREE
1-800-227-2600
OR
811

TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:

BASIS OF BEARINGS:



REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS

David R. Doublet
ASSISTANT DIRECTOR

PROJECT MANAGER	INITIAL	DATE
Alfonso Fausto		
OPS. DIVISION MANAGER	Henry Mac	
PM. DIVISION MANAGER	Noel Mondragon	

IMPROVEMENT PLANS

CSA 29 LUCERNE VALLEY COMMUNITY CENTER

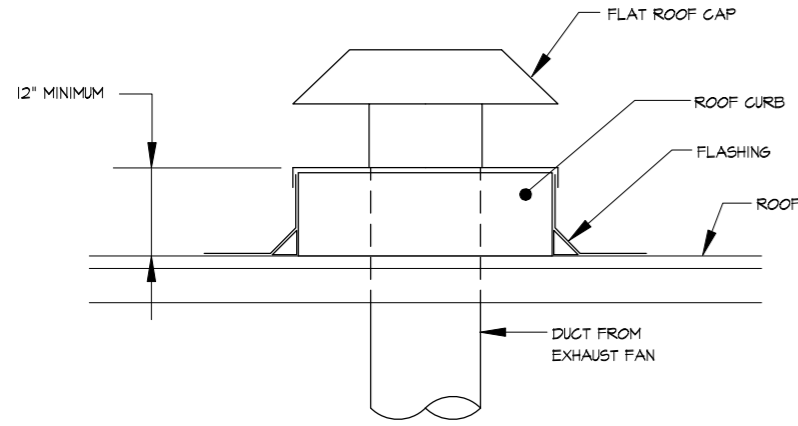
RENOVATION PROJECT

HVAC GENERAL NOTES AND LEGENDS

DWG NO.

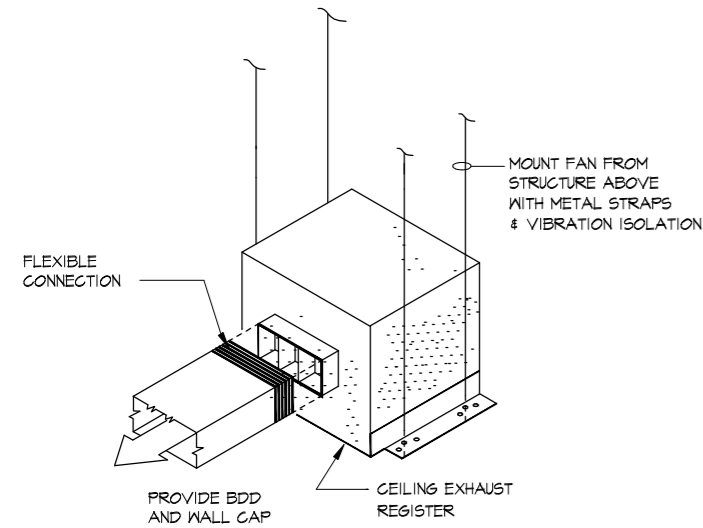
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SHEET **M-1.0**



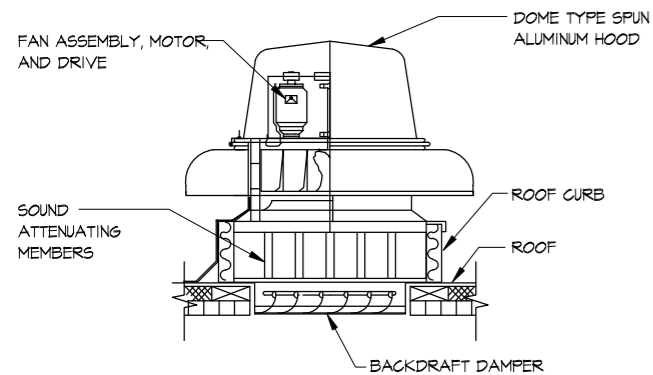
FLAT ROOF CAP DETAIL

SCALE: NONE



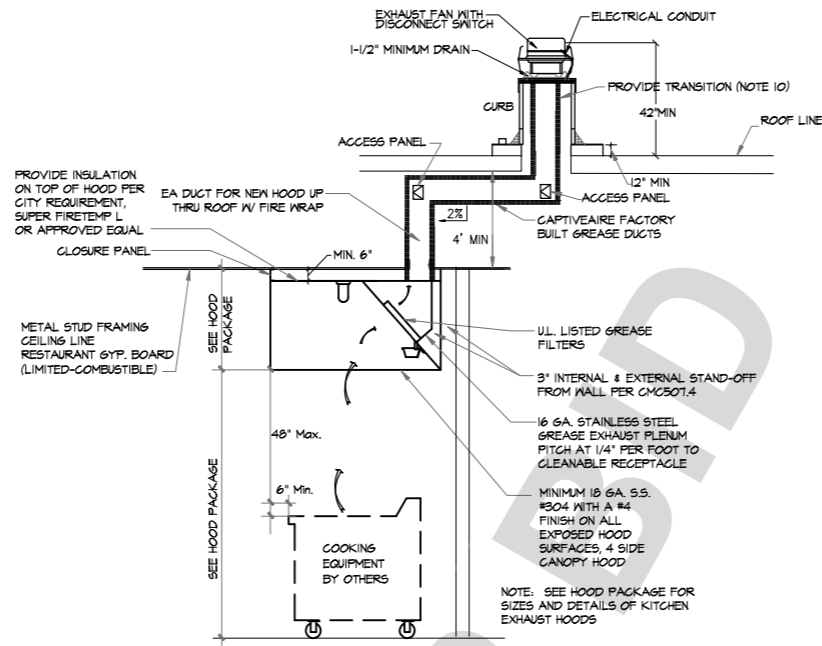
CEILING EXHAUST FAN DETAIL

SCALE: NONE



ROOF MUSHROOM EXHAUST FAN DETAIL

SCALE: NONE

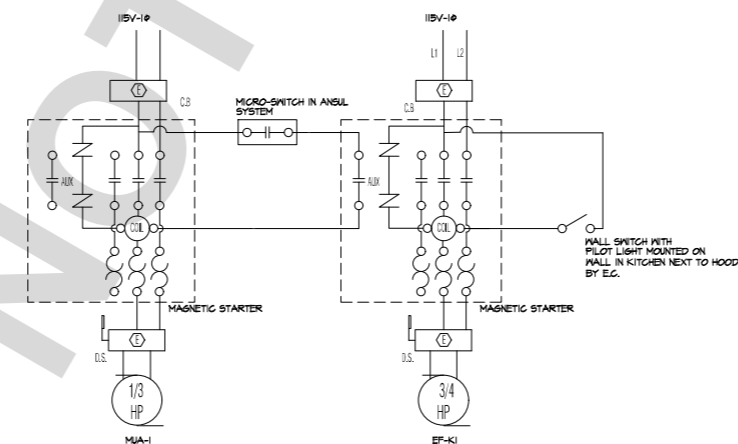


NOTES:

1. MANUAL ACTIVATION DEVICE FOR THE KITCHEN HOOD SUPPRESSION SYSTEM SHALL BE 10 TO 20 FEET AWAY FROM THE HOOD SYSTEM IN THE DIRECTION OF EGRESS.
2. ACCEPTANCE AND DISCHARGE TESTS SHALL BE REQUIRED FOR THE KITCHEN HOOD FIRE SUPPRESSION SYSTEM.
3. GREASE EXHAUST DUCTS ARE TO BE WRAPPED IN ACCORDANCE WITH NFPA 96. UL LISTED GREASE EXHAUST DUCT SYSTEMS MANUFACTURED BY METAL-FAB OR APPROVED EQUAL SHALL ALSO BE ACCEPTED PROVIDED ALL APPLICABLE CODES ARE MET.
4. PROVIDE OPENING W/ ACCESS PANEL ON DUCT AT CHANGE OF DIRECTION PER CMC 2022 510.3.4. PROVIDE OPENING W/ ACCESS PANEL AT 12' INTERVALS PER CMC 2022 510.3.4 IF THE ACCESS PANEL IS LESS THAN 20'X20'.
5. REFER TO FIRE WRAP MANUFACTURER FOR DETAILS ABOUT PENETRATING CEILING & ROOF.
6. GREASE DUCT MATERIAL IS 16 GA. STAINLESS STEEL.
7. THE INSIDE EDGE OF THE HOOD SHALL OVERHANG OR EXTEND A HORIZONTAL DISTANCE OF NOT LESS THAN 6 INCHES BEYOND THE EDGE OF THE COOKING SURFACE ON OPEN SIDES. THE VERTICAL DISTANCE BETWEEN THE LIP OF THE HOOD AND THE COOKING SURFACE SHALL NOT EXCEED 4 FEET.
8. GREASE REMOVAL DEVICES IN HOOD SHALL NOT BE LESS THAN 48" ABOVE COOKING SURFACE. CMC 504.2.1.
9. MAINTAIN KITCHEN HOOD DUCT TERMINATION CLEARANCES PER CMC 510.8.
10. OPENING TO BE CENTERED AND SHOULD BE GRADUALLY INCREASED TO COVER THE FAN INLET.

GREASE EXHAUST SYSTEM

SCALE: NONE



MAKE-UP-AIR AND EXHAUST WIRING DIAGRAM

SCALE: NONE

FAN SCHEDULE										
EQUIPMENT NO.	SERVICE	LOCATION	CFM	STATIC PRESS. (IN W.G.)	MOTOR			MANUFACTURER & MODEL	OPTIONS-ACCESSORIES	
					WATTS	HP	RPM			
EF-KI	KITCHEN	ROOF	1500	1.15	--	3/4	1316	115-1-60	CAPTIVEAIRE DUBSHFA	CONTROLLED BY SWITCH AND ANSUL SYSTEM OPER. WT. = 90 LBS NOTE #1
EF-R1, EF-R2	RESTROOM	CEILING	150	0.5	50	--	900	115-1-60	GREENHECK SP-A200 OR EQUAL	BACKDRAFT DAMPER CONTROLLED BY OCCUPANCY SENSOR OPERATION WT. = 24 LBS
EF-J	JANITOR	CEILING	120	0.5	47.8	--	900	115-1-60	GREENHECK SP-A200 OR EQUAL	BACKDRAFT DAMPER CONTROLLED BY TIME CLOCK COOPERATION WT. = 25 LBS

NOTES:
1. ELECT INTERLOCK W/ MUA-I.

EXISTING MAKE-UP-AIR UNIT							
EQUIPMENT NO.	MODEL	SERVING	CFM	STATIC PRESS. (IN W.G.)	MOTOR		REMARKS
					HP	VOLT.-PH.-CY.	
XMUA-I	FRIGIKING FS450A	KITCHEN	1475	0.5	1/3	115-1-60	INTERLOCK W/ EF-KI CONTROLLED BY SWITCH AND ANSUL SYSTEM

NOTES:

AIR CURTAIN								
EQUIPMENT NO.	MANUFACTURER & MODEL	WEIGHT (LBS)	LOCATION	CFM	FFM	MOTOR		REMARKS
						HP	VOLT.-PH.-CY.	
AD-I	CURTRON AP-2-36-1-S5	43	ABV DOOR	1220	3150	1/3	120-1-60	PROVIDE MICRO DOOR SWITCH UNIT SHALL PROVIDE 3150 FPM VELOCITY AT 3FT ABOVE THE FLOOR NSF/ANST STANDARD 37

NOTES:

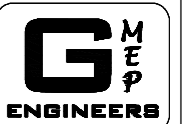
VENTILATION CALCULATION							
OCCUPANCY CATEGORY	FLOOR AREA (SQ.FT.)	*AREA OUTDOOR AIR RATE (CFM/SQ.FT.)	AREA OUTDOOR AIR REQUIREMENT (CFM)	PERSONS (QTY.)	*PEOPLE OUTDOOR AIR RATE (CFM/PERSON)	PEOPLE OUTDOOR AIR REQUIREMENT (CFM)	OUTSIDE AIR PROVIDED (CFM)
KITCHEN	455	0.12	54.6	9.1	7.5	68.25	125

NOTES:
*PER CMC TABLE 402.1

KITCHEN AIR BALANCE SCHEDULE						
UNIT	SUPPLY	RETURN	OUTSIDE	MAKE UP	EXHAUST	SERVING
XMUA-I				1475		HOOD I
EF-KI					-1500	HOOD I
TOTAL	0	0	0	1475		
TOTAL OUTSIDE AIR			1475		-1500	TOTAL EXHAUST
					-25	TOTAL BUILDING AIR FLOW

EXHAUST CALCULATION				
OCCUPANCY CATEGORY	FLOOR AREA (SQ.FT.)	*EXHAUST RATE (CFM/SQ.FT.)	EXHAUST REQUIREMENTS (CFM)	EXHAUST PROVIDED (CFM)
WOMEN	130	70	140	150
MEN	136	70	140	150

NOTES:
*PER CMC TABLE 403.7
**CFM/UNIT PER CMC TABLE 403.7



28439 Ramoth Pkwy. S. Ste 100
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06-20-2024



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TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:

BASIS OF BEARINGS:



REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

PLANS APPROVED BY: SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS			
David B. Doublet ASSISTANT DIRECTOR		DATE	
APPROVALS	PROJECT MANAGER ALONSO FAUSTO	INITIAL	DATE
	OPS. DIVISION MANAGER Henry Mac		
	PM. DIVISION MANAGER Noel Mondragon		

IMPROVEMENT PLANS	
CSA 29 LUCERNE VALLEY COMMUNITY CENTER	
RENOVATION PROJECT HVAC EQUIPMENT SCHEDULES & DETAILS	

DWG NO.	
FILE NO.	
SHEET	M-1.1

FOR QUESTIONS, CALL THE
Southern California Office
REGION 86
PHONE: (714) 957 - 1500
EMAIL: reg86@captiveware.com

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

HOOD INFORMATION - JOB#6441874

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
1		5412 SND-2	CAPTIVARE	6' 0"	600 DEG	I	HEAVY	250	1500		4"	12"	1500	1910	-1.050"	430 SS	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT	
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM TYPE	SIZE			ELECTRICAL MODEL #
1		CAPTRATE SOLO FILTER	4	16"	16"	85% SEE FILTER SPEC	2	RECESSED ROUND	NO						YES	261 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		RIGHT QUARTER END PANEL 27" TOP WIDTH, 0" BOTTOM WIDTH, 27" HIGH 430 SS.
		LEFT QUARTER END PANEL 27" TOP WIDTH, 0" BOTTOM WIDTH, 27" HIGH 430 SS.
		ADD FIELD WRAPPER TO CLOSE THE VOID BETWEEN THE HOOD TO THE CEILING.

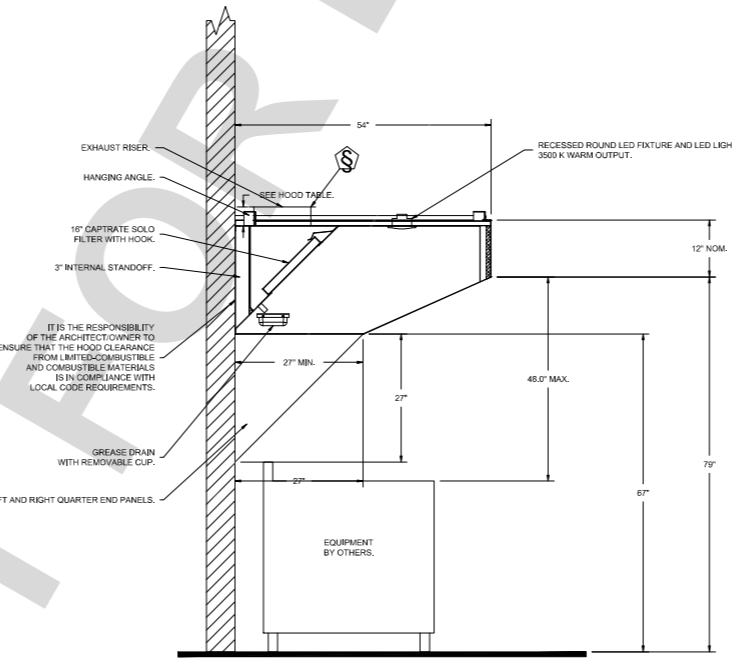
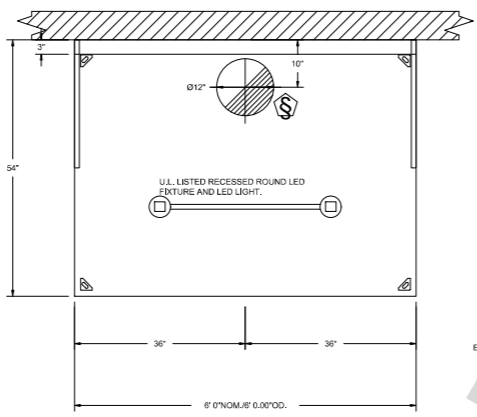
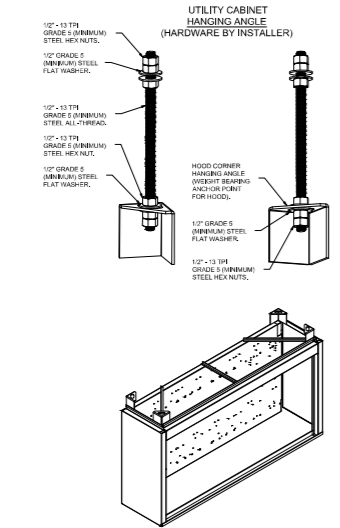
WALL-MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S)				WEIGHT
			FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	
1	WALL MNT	12"x48"x24"	TANK FS	4.0/4.0	SC-111110MA	1 LIGHT 1 FAN	340.00 LBS

WALL-MOUNT UTILITY CABINET 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 UTILITY CABINET HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

CABINET TO BE HUNG BY HOOD INSTALLER. SEE UTILITY CABINET SCHEDULE FOR CABINET SIZE.



SECTION VIEW - MODEL 5412SND-2 HOOD - #1

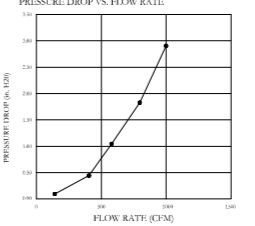
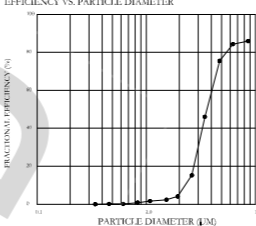
SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

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.

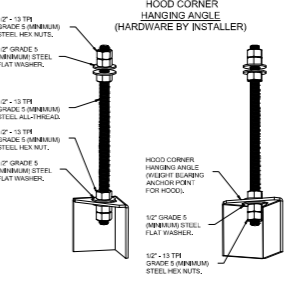
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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.

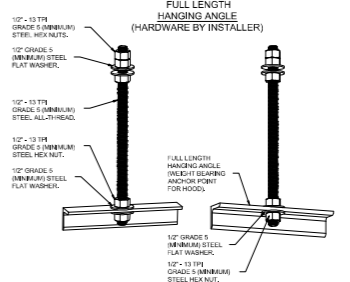


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96
NSF STANDARD #2
UL STANDARD #1046,
INT. MECH. CODE (IMC),
ULC-S649.



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	
DESCRIPTION	DATE

CAPTIVARE
Southern California Office
www.captiveware.com
3002 Dow Ave., Suite 202, Tustin, CA, 92780
PHONE: (714) 957 - 1500 FAX: 9192274576 EMAIL: reg86@captiveware.com

Lucerne Valley CC
Lucerne, CA, 95458

DATE: 12/15/2023
DWG.#: 6441874
DRAWN BY: DAB
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 1



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GANGYI ZHU
No. M34279
Exp. 12-31-2024
MECHANICAL
STATE OF CALIFORNIA

DESIGN GROUP
921.742.7179
3900 ARAVAS STREET
RIVERSIDE, CA 92504
www.thedesigngroup.com

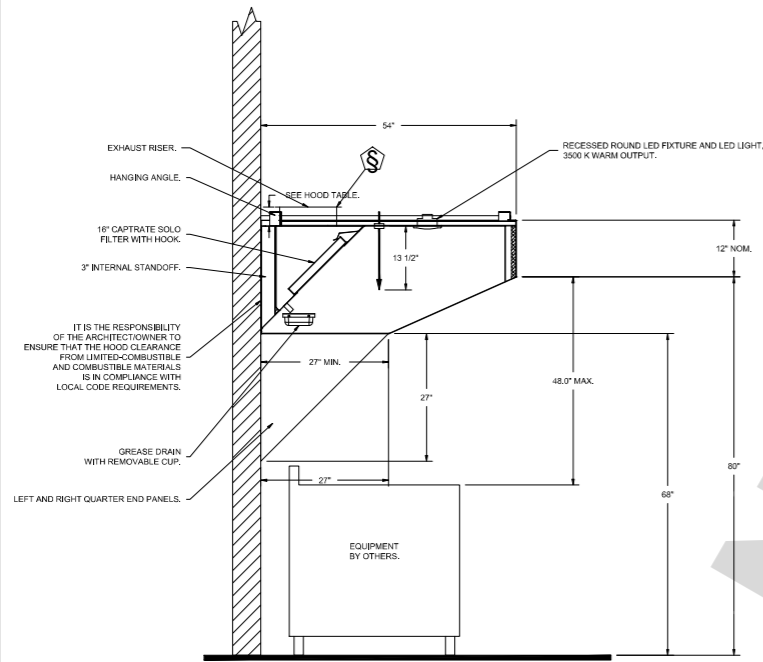
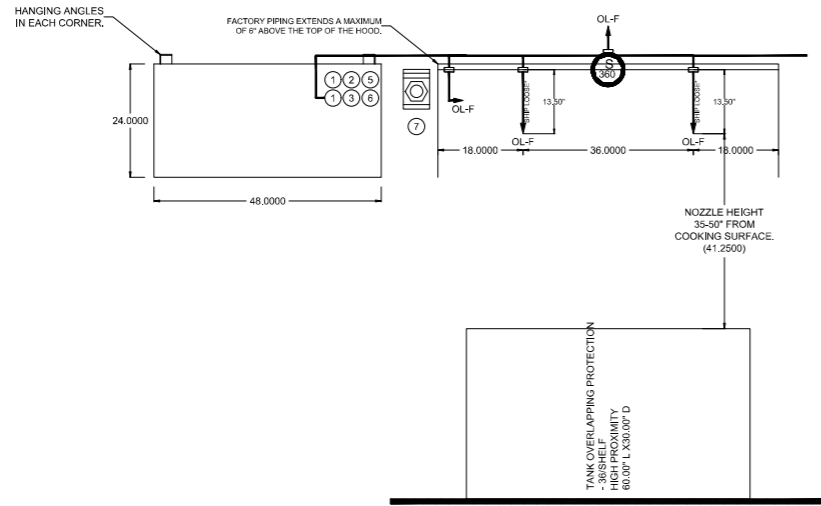
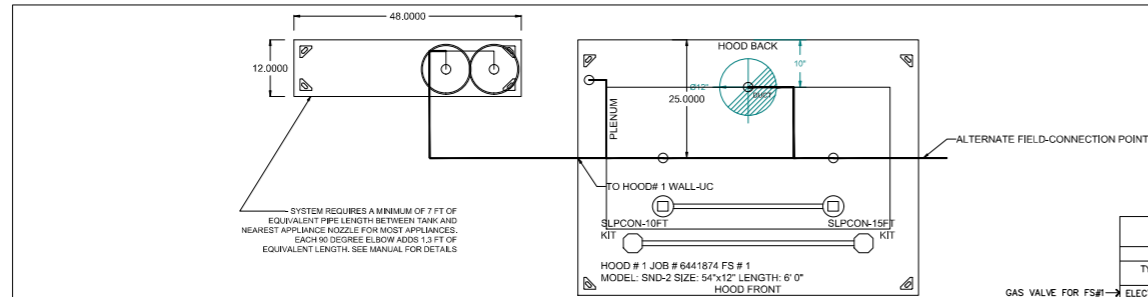
REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS
David R. Doublet
ASSISTANT DIRECTOR

APPROVALS	PROJECT MANAGER	INITIAL	DATE
	Alfonso Fausto		
	OPS. DIVISION MANAGER	Henry Mac	
	PM. DIVISION MANAGER	Noel Mondragon	

IMPROVEMENT PLANS
CSA 29 LUCERNE VALLEY COMMUNITY CENTER
RENOVATION PROJECT
HOOD PACKAGE

DWG NO.
FILE NO.
SHEET M-1.2



SECTION VIEW - MODEL 5412SND-2 HOOD - #1

- NOTES**
- FIELD PIPE DROPS AS SHOWN
 - PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY GAS.
 - 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 SHELVING, 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' ABOVE THE TOP OF THE HOOD.
 - 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 # 6441874.
 - JOB NAME: LUCERNE VALLEY CC.
 - SYSTEM SIZE: TANK-SP-2-WC DESIGN FP-18, MAXIMUM FP: 40.
 - HOOD #1 6' 0.00" LONG x 54" WIDE x 12" HIGH.
 - RISER #1 SIZE: 12" DIA.
 - HOOD #1 METAL BLOW-OFF CAPS INCLUDED.
 - 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.

FIRE SYSTEM INFORMATION - JOB#6441874

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	18	WALL UTILITY CABINET LEFT	N/A

GAS VALVE(S)

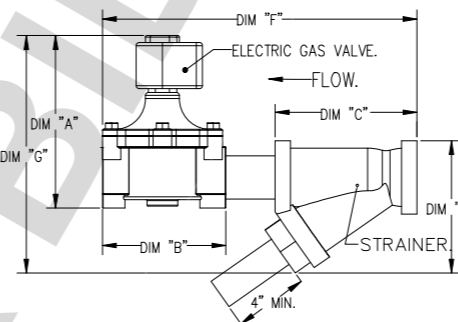
FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

GAS VALVES AND STRAINERS

TYPE	SIZE	VOLTAGE	GAS VALVE SIZING		GAS VALVE DIMENSIONS							INSTALLATION	PART NUMBERS		GAS VALVE/STRAINER KIT	
			MIN. INLET PRESSURE	MAX. INLET PRESSURE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"		MOUNTING ORIENTATION	GAS VALVE PART NUMBER		STRAINER PART NUMBER
ELECTRICAL	2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	2,940,500 BTU/HR	1,905,048 BTU/HR	7-5/8"	6-3/8"	7-1/4"	7-13-16"	15-5/8"	13-15/16"	HORIZONTAL/VERTICAL	8214280	4417668	(S)CGVA2

ALL GAS VALVES/STRAINERS
 PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE. DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER. CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS STRAINER RATING. SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

CALCULATIONS
 TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP:
 NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP^{0.85}
 TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY:
 NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)^{0.85}



FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
		0-0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0-0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0-0 - 12-F28021-32144-01-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO. CLOSE ON TEMP RISE AT 360°F.	1	0
		0-0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	2	0
		0-0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0-0 - 78525 1/2" 90 PRO-PRESS ELBOW WITH 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0-0 - 78580 1/2" X 1/2" PRO-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	2	0
		0-0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0-0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5' BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0-0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0-0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0-0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0-0 - 8668A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0-0 - A003432 JUNCTION BOX FOR MANUAL PULL STATION, 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0-0 - A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES, 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	1	0
		0-0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0-0 - SLPCON-10FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 9' GAP OR BACK TO BACK HOODS. KIT CONTAINS 12 FEET OF BLACK MG WIRE, 12 FEET OF TAN MG WIRE, 10 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	0
		0-0 - SLPCON-15FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 14' GAP OR BACK TO BACK HOODS. KIT CONTAINS 17 FEET OF BLACK MG WIRE, 17 FEET OF TAN MG WIRE, 15 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	0
		0-0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	6	0
		0-0 - TFS-JCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0-0 - WK-283652-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		34 - 34 - A003431 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT, RED COLOR.	1	0

REVISIONS

NO.	DESCRIPTION	DATE
1		



CAPTIVEAIRE
 Southern California Office
 3002 Dow Ave., Suite 202, Tustin, CA 92780 PHONE: (714) 987-1500 FAX: 9192279795 EMAIL: reg86@captivaire.com
 www.captivaire.com

Lucerne Valley CC
 Lucerne, CA, 95458

DATE: 12/15/2023

DWG.#:
6441874

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SCALE:
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PLANS APPROVED BY:
 SAN BERNARDINO COUNTY - PUBLIC WORKS
 SPECIAL DISTRICTS

David R. Doublet
 ASSISTANT DIRECTOR

APPROVALS	PROJECT MANAGER	INITIAL	DATE
	Alfonso Fausto		
	Henry Mac		
	Noel Mondragon		

IMPROVEMENT PLANS

CSA 29 LUCERNE VALLEY COMMUNITY CENTER
 RENOVATION PROJECT
 HOOD PACKAGE

DWG NO.

FILE NO.

SHEET M-1.3

EXHAUST FAN INFORMATION - JOB#6441874

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	DUBSHFA	CAPTIVEAIRE	1500	1.150	1316	TEAD-ECM	0.750	0.4310	1	115	8.9	475 FPM	90	10.8

FAN OPTIONS

FAN UNIT NO.	TAG	QTY	DESCRIPTION
1		1	GREASE BOX
1		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
1		1	2 YEAR PARTS WARRANTY

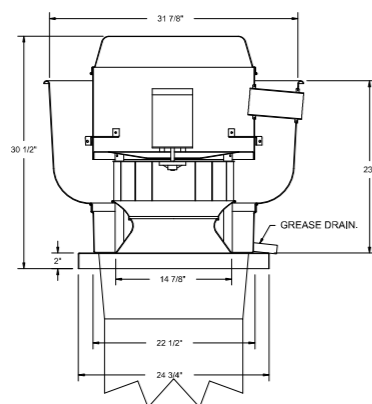
FAN ACCESSORIES

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

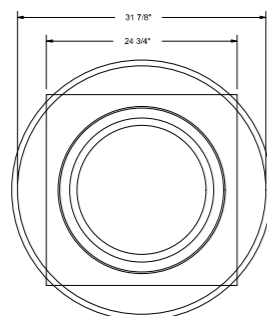
CURB ASSEMBLIES

NO	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	36 LBS	CURB	23.000"W X 23.000"L X 20.000"H VENTED HINGED.

FAN #1 DUBSHFA - EXHAUST FAN



TOP VIEW



FEATURES:

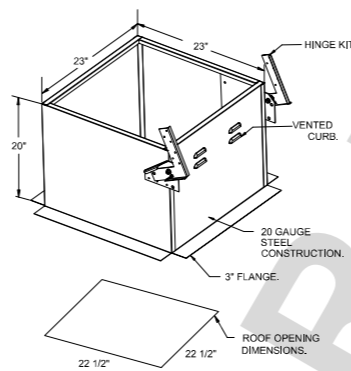
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND UL1C-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT 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.

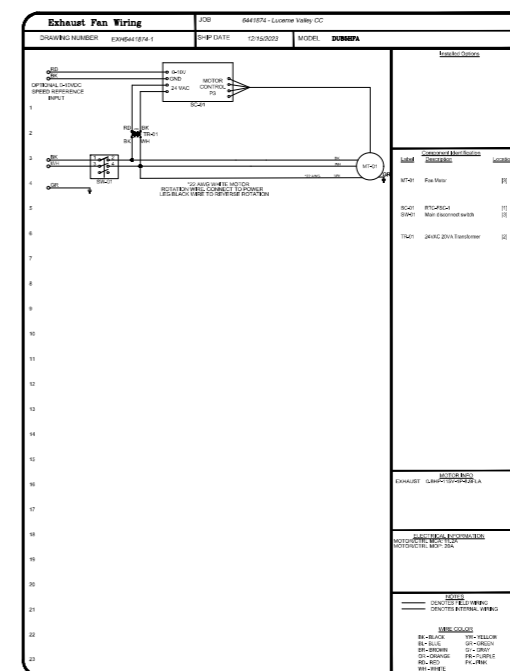
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT WOULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX
- ECM WIRING PACKAGE -MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
- 2 YEAR PARTS WARRANTY.



NOT FOR BID



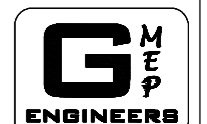
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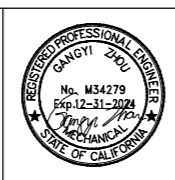
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PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS
David R. Doublet
ASSISTANT DIRECTOR

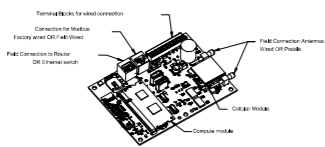
APPROVALS	PROJECT MANAGER	INITIAL	DATE
	Alfonso Fausto		
	Henry Mac		
	Noel Mondragon		

IMPROVEMENT PLANS
CSA 29 LUCERNE VALLEY COMMUNITY CENTER
RENOVATION PROJECT
HOOD PACKAGE

DWG NO.
FILE NO.
SHEET M-1.4

ELECTRICAL PACKAGE - JOB#6441874

Table with columns: NO, TAG, PACKAGE #, LOCATION, SWITCHES, OPTION, FANS CONTROLLED. Row 1: SC-11110MA, WALL UTILITY CABINET LEFT, SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY.

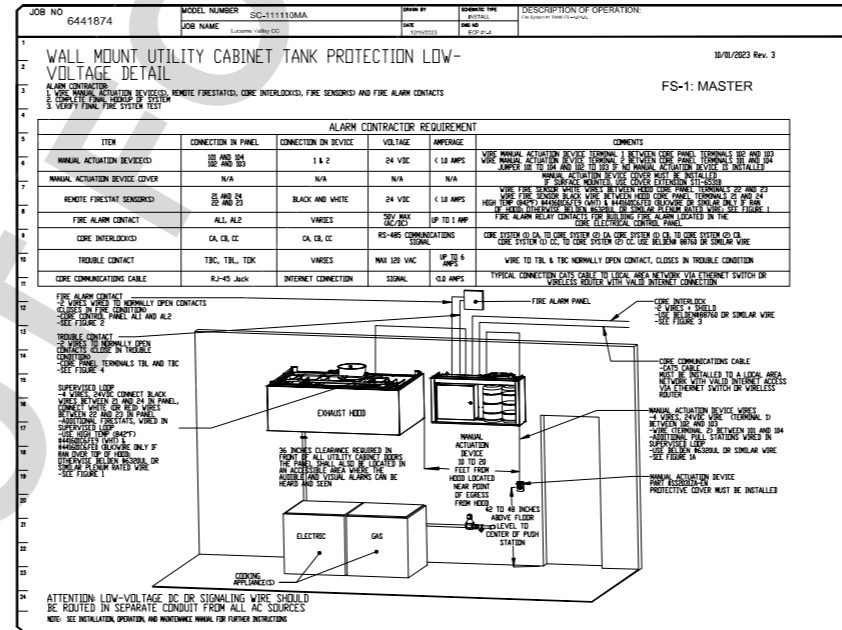
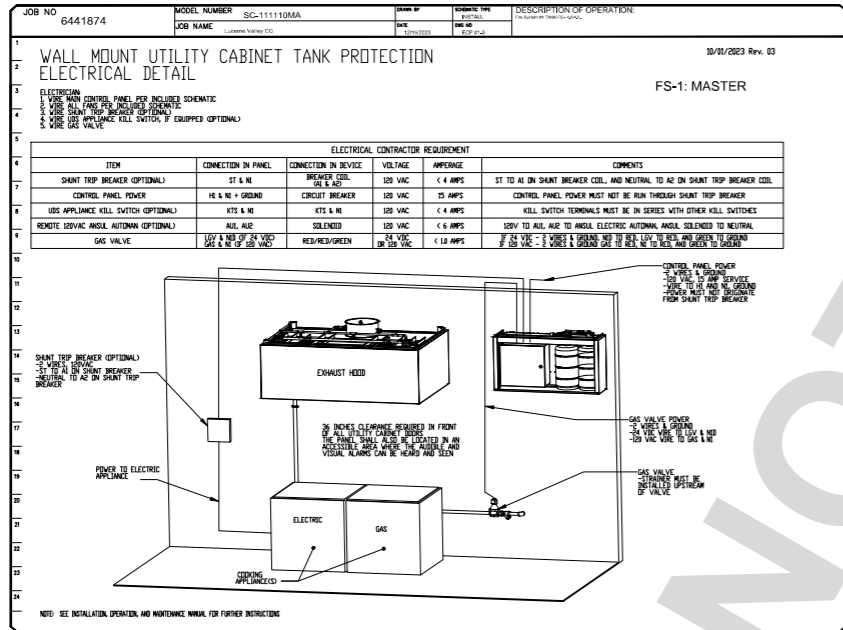
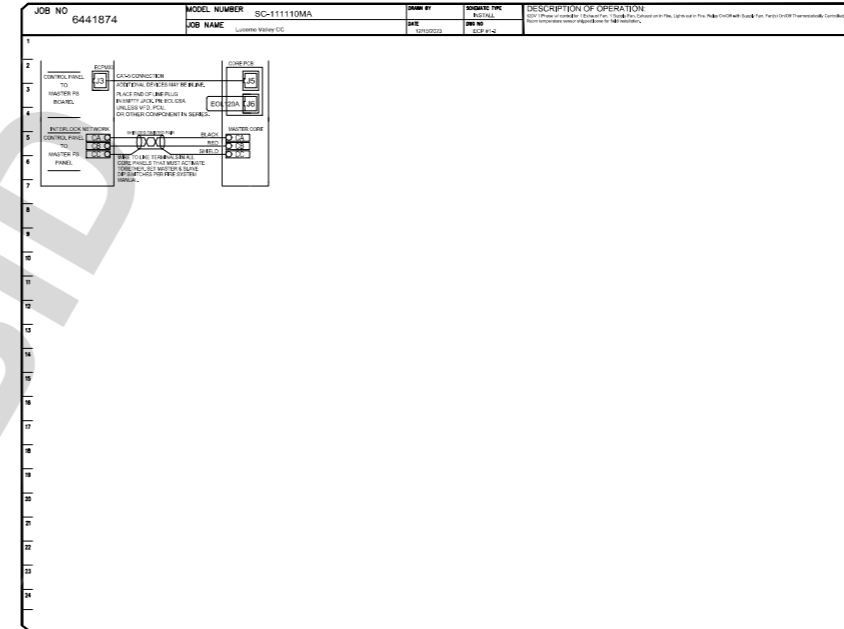
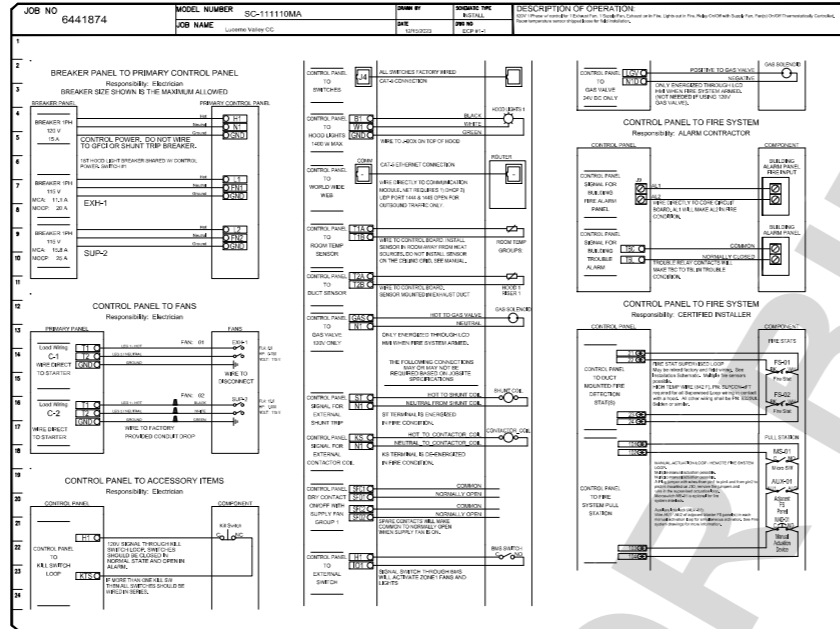


CASlink Monitor and Control

Hood control panel to support communication to cloud-based Building Management System. Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.

MONITORING AND CONTROL POINTS LIST

Table listing monitoring and control points for various parameters like Room Temperature, Fan Speed, and Pressure. Columns include Parameter, Function, and Status.



Revisions table and project information for CAPTIVE Southern California Office, including contact details for Southern Valley CC and Lucerne, CA.

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UNDERGROUND SERVICE ALERT logo and contact information for toll-free service.

BENCHMARK and BASIS OF BEARINGS information, including a professional engineer's seal for Gary M. Mochan.

DESIGN GROUP logo and contact information for 2800 Adams Street, Riverside, CA.

REVISIONS table with columns for MARK, DATE, INITIAL, DESCRIPTION, and APPR. DATE.

APPROVALS section showing signatures and dates for David R. Doublet, Alfonso Fausto, Henry Mac, and Noel Mondragon.

IMPROVEMENT PLANS section for CSA 29 LUCERNE VALLEY COMMUNITY CENTER RENOVATION PROJECT HOOD PACKAGE, including sheet number M-1.5.

GMEP ENGINEERS logo and contact information for 28439 Ramajo Parkway, Suite 100, Lake Forest, CA.