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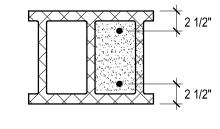
NO. DATE DESCRIPTION

BAA

ASP

JDK

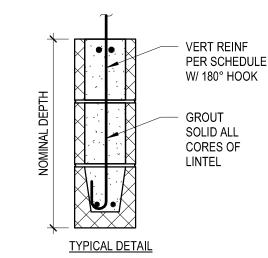
CONCRETE



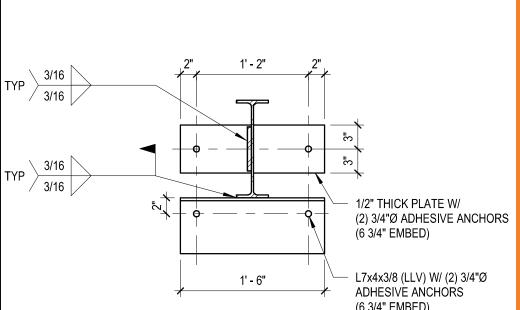
DOUBLY REINFORCED WALL BAR PLACEMENT DIAGRAM

REINFORCED MASONRY LINTEL SCHEDULE								
CLEAR SPAN	NOMINAL DEPTH	REINFORCING						
UP TO 4'-0"	8"	(2) # 4 BOT						
>4'-0" TO 6'-8"	16"	(2) # 4 T&B						
>6'-8" TO 8'-8"	24"	(2) # 5 T&B						
>8'-8" TO 10'-8"	32"	(2) # 6 T&B						
>10'-8" TO 12'-8"	40"	(2) # 6 T&B						

2. LINTELS ARE CONTINUOUS FULL WIDTH OF OPENING. BEARING FOR CLEAR SPANS GREATER THAN 8'-0".

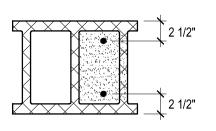


MASONRY LAP SPLICE SCHEDULE (F'm=2000 PSI)										
PLACE- MENT	CEN	TER	EDGE							
BAR SIZE	8" CMU	12" CMU	ALL CMU							
#3	18"	18"	18"							
#4	24"	24"	24"							
#5	30"	30"	30"							
#6	38"	36"	57"							
#7	-	42"	80"							
#8	_	50"	_							



OTHER NOTES (APPLY WHERE NOTED):

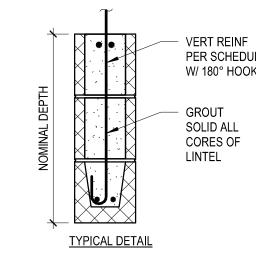
A. PROVIDE BOND BEAMS REINFORCED W/ (2) #5 CONTINUOUS AT 3'-4" OC B. ONE VERT BAR EACH FACE - SEE



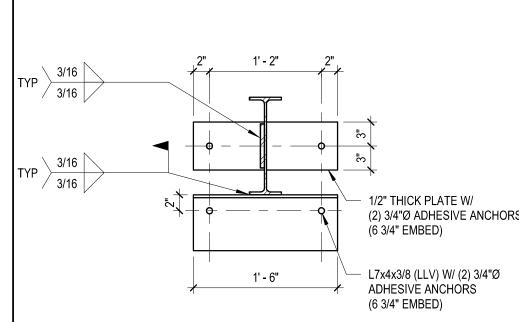
REINFORCED MASONRY LINTEL SCHEDULE							
CLEAR SPAN	NOMINAL DEPTH	REINFORCING					
UP TO 4'-0"	8"	(2) # 4 BOT					
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>8'-8" TO 10'-8"	32"	(2) # 6 T&B					
>10'-8" TO 12'-8"	40"	(2) # 6 T&B					

1. SEE ARCHITECTURAL DRAWINGS FOR OPENING LOCATIONS AND CLEAR SPANS. 3. PROVIDE 8" MINIMUM BEARING FOR CLEAR SPANS 8'-0" OR LESS; 16" MINIMUM 4. EXTEND BOTTOM REINFORCEMENT TO END OF BEARING EACH SIDE. EXTEND TOP REINFORCEMENT WITH STANDARD HOOK AT CONTROL JOINTS OR FREE

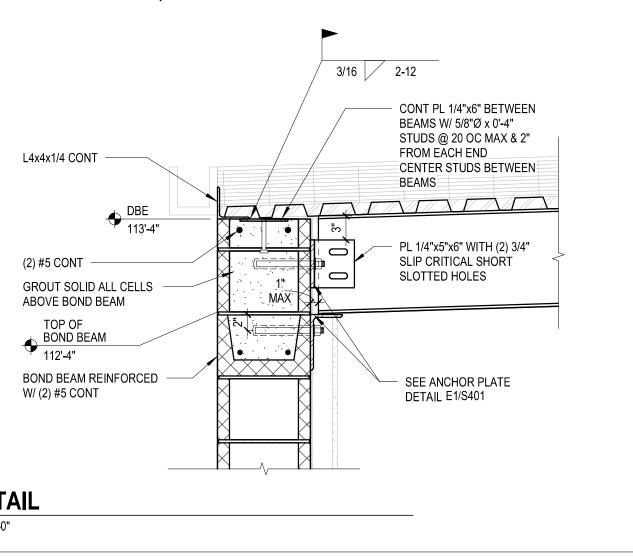
5. SEE TYPICAL CMU WALL ELEVATION FOR ADDITIONAL REQUIREMENTS.

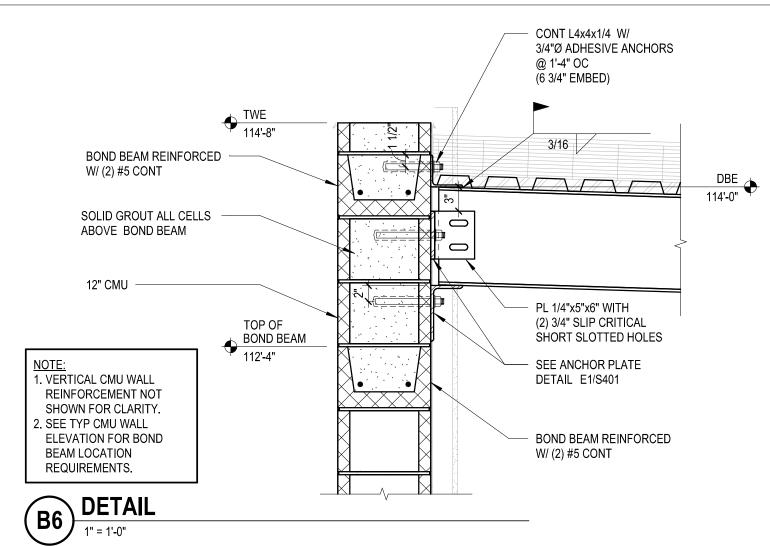


MASON (F'm=2000		PLICE SC	HEDUL			
PLACE- MENT	CEN	CENTER				
BAR NILIVI SIZE	8" CMU	12" CMU	ALL CM			
#3	18"	18"	18"			
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#6	38"	36"	57"			
#7	-	42"	80"			
#8	-	50"	-			



ANCHOR PLATE DETAIL





TYPICAL CMU WALL ELEVATION

FOR ADDITIONAL REQUIREMENTS.

5. SEE LAP SPLICE SCHEDULE FOR LAP LENGTHS.

HORIZONTAL REINFORCEMENT IN

BOND BEAMS BELOW FLOOR OR

ROOF BEAMS AND AT PARAPET

SHALL TERMINATE AT CONTROL

JOINTS WITH A STANDARD HOOK

HORIZONTAL REINFORCEMENT

IN DIAPHRAGM BOND BEAMS

(FIRST FULL COURSE ABOVE TSE) SHALL RUN CONTINUOUS

THROUGH CONTROL JOINTS

(APPLIES TO ROOF OR FLOOR

GROUT BELOW BEAM BEARING

2' - 0"

BEAM BEARING WHERE

OCCURS, SEE TYPICAL

TO TOP OF BOND BEAM,

STEEL ANGLE OR REINF.

(CONTRACTORS OPTION) PER RESPECTIVE SCHEDULES WHERE NOT INDICATED ON

MECH OPENING AS REQ'D.

2'-0" MAX WIDTH WITHOUT

OR LOWER BOND BEAM

ADDITIONAL VERTICAL BARS

CONTROL JOINT- REINFORCE FIRST CELL (MIN) EA SIDE

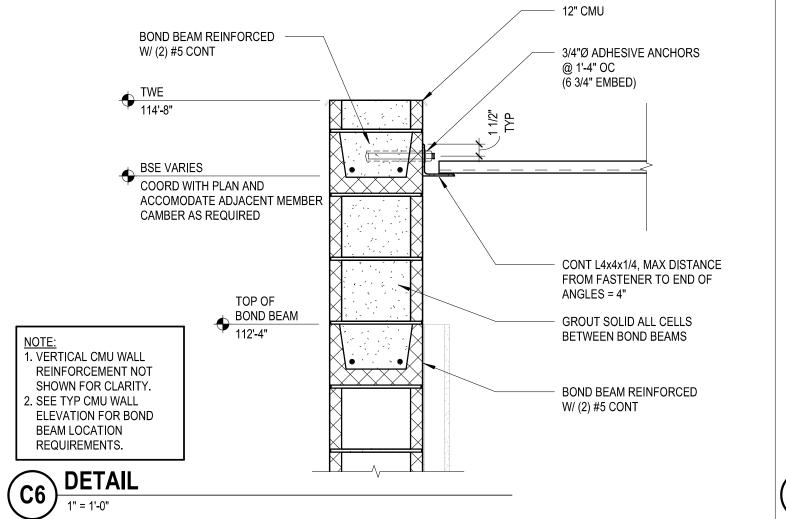
(SEE ARCH FOR LOCATIONS)

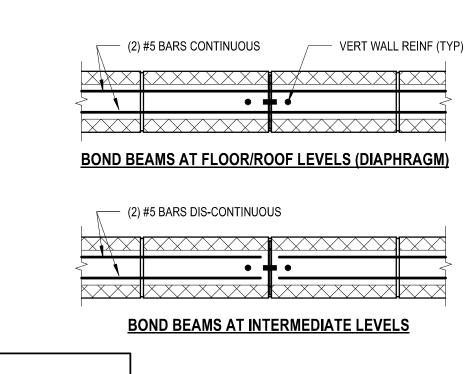
MASONRY LINTEL

DIAPHRAGMS)

DETAILS

TYPICAL





1. REINFORCING SHOWN AS SOLID LINES IS IN ADDITION TO TYPICAL WALL REINFORCING CALLED OUT ON DRAWINGS. SIZE OF

4. PROVIDE "LADDER" TYPE HORIZONTAL MASONRY REINFORCEMENT AT 16" OC IN CMU AND BRICK VENEER. SEE SPECIFICATIONS

ADDITIONAL BARS SHALL MATCH TYPICAL WALL REINFORCING SIZE UNLESS NOTED OTHERWISE.

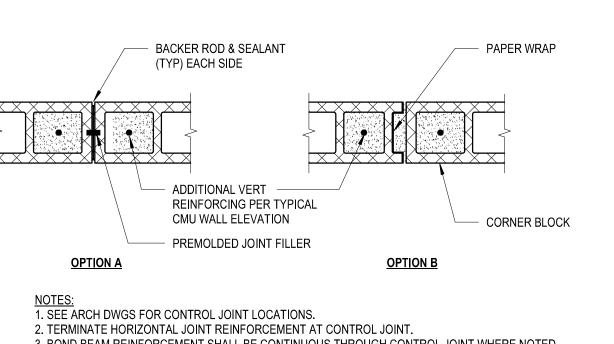
2. WALL ELEVATION IS TYPICAL FOR STRUCTURAL & NON-STRUCTURAL CMU WALLS.

3. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF NON-STRUCTURAL CMU WALLS.

NOTE: COORDINATE CJ LOCATIONS WITH ARCHITECTURAL DRAWINGS

NOT TO SCALE

TYPICAL BOND BEAMS AT CONTROL JOINTS



3. BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONTROL JOINT WHERE NOTED. 4. MAXIMUM CONTROL JOINT SPACING SHALL BE 25'-0" UNO.

TYPICAL CMU CONTROL JOINT (CJ) NOT TO SCALE

∖ TYPICAL CMU VERTICAL REINFORCEMENT NOT TO SCALE

EXTEND ALL VERTICAL REINFORCEMENT

TO WITHIN 2" OF TOP OF WALL AND

PROVIDE 180° HOOK - TYPICAL

BEARING LENGTH

SEE SCHEDULE

TYPICAL VERTICAL REINFORCEMENT

SHOWN DASHED THUS - SEE PLANS

CMU LINTEL SEE SCHEDULE

BOND BEAM W/ (2) #5

CORNER BARS SIZE

REINFORCEMENT

TO MATCH BOND BEAM

#3 TIE AT INTERSECTIONS

ELEVATIONS DO NOTMATCH

WHERE BOND BEAM

CORNER REINF

NOT TO SCALE

ADDITIONAL BAR TO

MATCH SIZE OF TYPICAL

WALL REINFORCEMENT

TYPICAL

BOND BEAMS AT SAME

BOND BEAMS AT

DIFFERENT VERTICAL ELEV

INTERSECTION

TYPICAL CMU BOND BEAM REINFORCEMENT

VERTICAL ELEV (CORNER)

TYPICAL BELOW ALL OPENINGS

GREATER THAN 2'-0" WIDE

FOR SIZE AND SPACING

BOND BEAM W/ (2) #5 TYPICAL AT TOP

OF WALL, DIAPHRAGM, AND AT FLOOR

AND ROOF BEAM BEARING LINES.

3'-0" MIN OVERLAP)

END OF WALL

(STEP AS REQ'D FOR ROOF SLOPE

PROVIDE STANDARD HOOK IN HORIZ

REINFORCEMENT AT END OF WALL

EXTEND VERT REINF THROUGH CMU

STEEL ANGLE OR REINF. MASONRY LINTEL (CONTRACTORS OPTION) PER RESPECTIVE SCHEDULES

REINFORCE FIRST CELL EACH SIDE OF

OPENING TO BELOW LINTEL BEARING

PROVIDE FULL HEIGHT VERTICAL

BARS EACH SIDE OF ALL OPENINGS.

PROVIDE (2) BARS (MINIMUM) FOR

OPENING LARGER THAN 6'-0". SEE

FILL ALL CELLS AT AND BELOW

DOWELS TO MATCH VERTICAL

REINFORCEMENT SIZE AND SPACING. LAP PER MASONRY

SPLICE SCHEDULE

FINISH FLR SEE PLANS

SEE PLANS

CORNER BARS SIZE

REINFORCEMENT

TO MATCH BOND BEAM

T/CONC

FINISHED FLOOR W/ GROUT

PLAN FOR ADDITIONAL REINFORCEMENT WHERE

REQUIRED.

BOND BEAM WHERE NO CONTROL JOINT

SEE ARCH DWGS

END OF WALL

SEE MASONRY LAP

SPLICE SCHEDULE

BOND BEAMS AT SAME

VERTICAL ELEV (INTERSECTION)

1. OMIT CORNER BARS AT CONTROL JOINT LOCATIONS

AS INDICATED ON TYPICAL CMU ELEVATION.

ADDITIONAL BAR TO

MATCH SIZE OF TYPICAL

WALL CORNER

ADDITIONAL BAR TO

MATCH SIZE OF TYPICAL

WALL REINFORCEMENT

WALL REINFORCEMENT

BOND BEAM

REINFORCEMENT

NOT TO SCALE

MASONRY

CONTENTA VALLEY, CA

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ISSUANCE

BIDS AND PERMITS

TRUCTION GROUP, LL

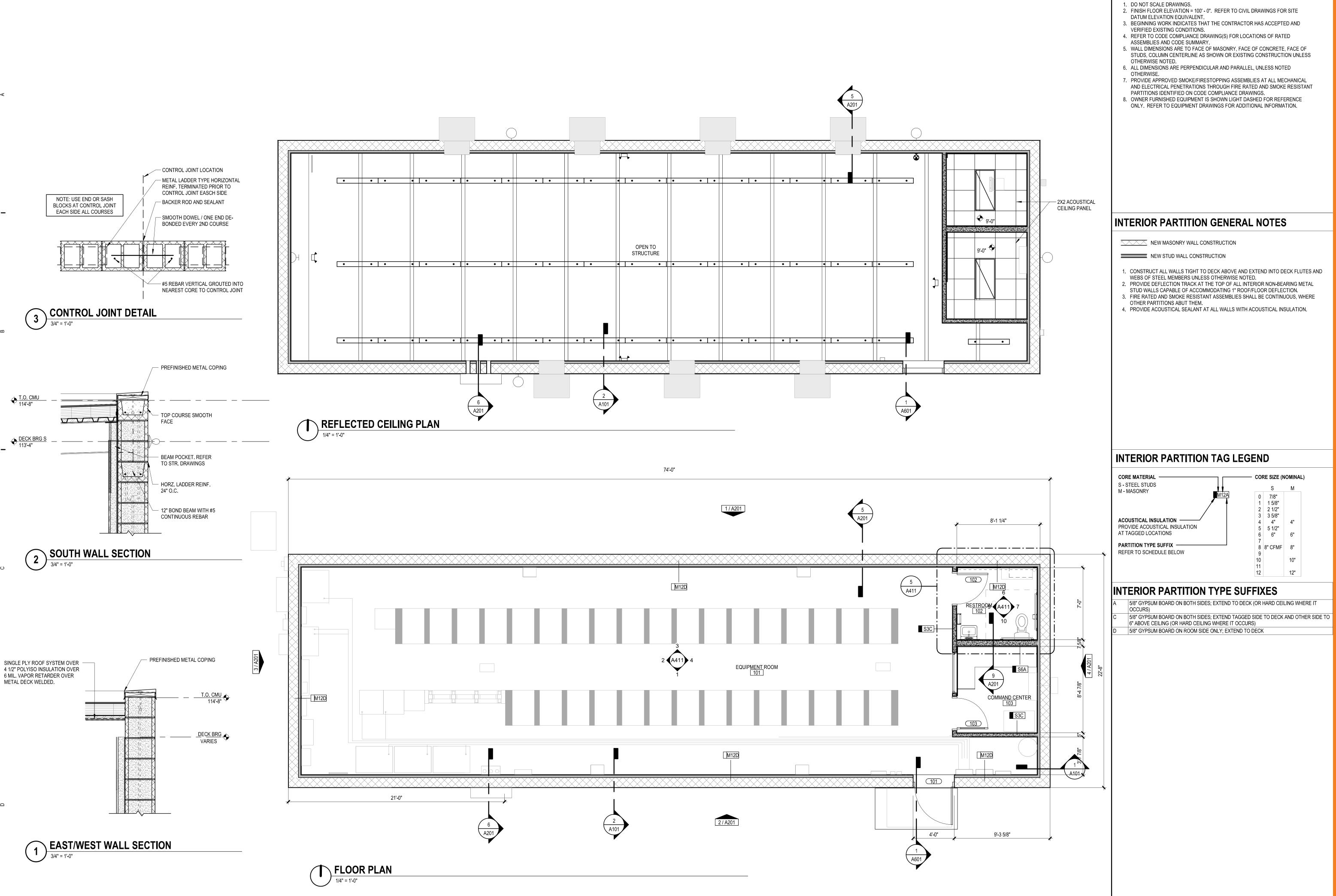
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08/22/2022 REVISIONS

NO. DATE DESCRIPTION

FILE NUMBER 92260017 PROJECT MANAGER PROFESSIONAL BAA DRAWN BY ASP CHECKED BY JDK

DETAILS **S401**



GENERAL NOTES

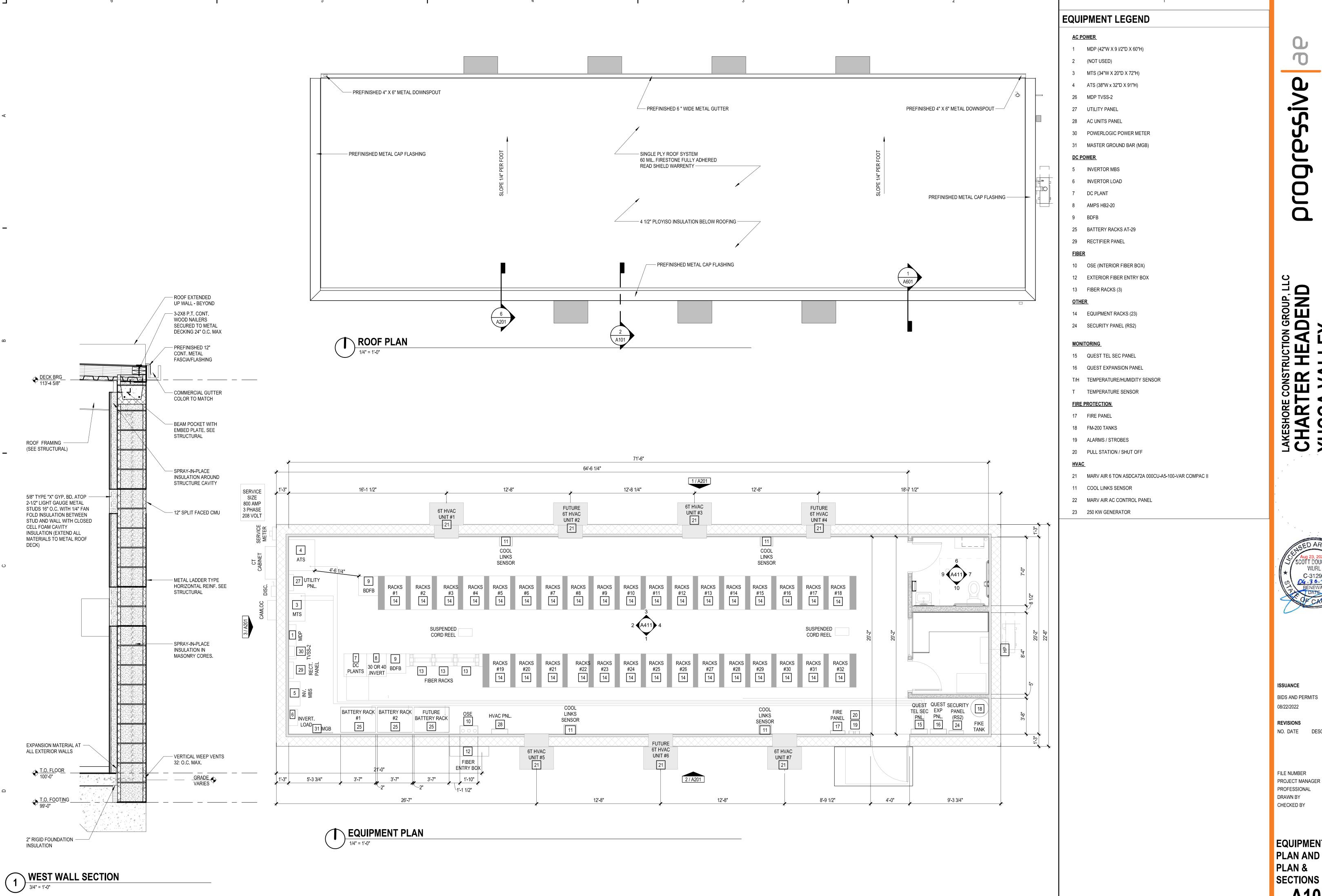
ISSUANCE

BIDS AND PERMITS 08/22/2022

REVISIONS NO. DATE DESCRIPTION

FILE NUMBER PROJECT MANAGER PROFESSIONAL DRAWN BY CHECKED BY

FLOOR PLAN AND REFLECTED CEILING PLAN & SECTIONS A101



SCOTT DOUGLAS WURL C-31290 O4 · 3 6 · 2 3 BENEWAL

BIDS AND PERMITS

NO. DATE DESCRIPTION

SDW

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EQUIPMENT PLAN AND ROOF PLAN & SECTIONS

A102

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ISSUANCE BIDS AND PERMITS 08/22/2022

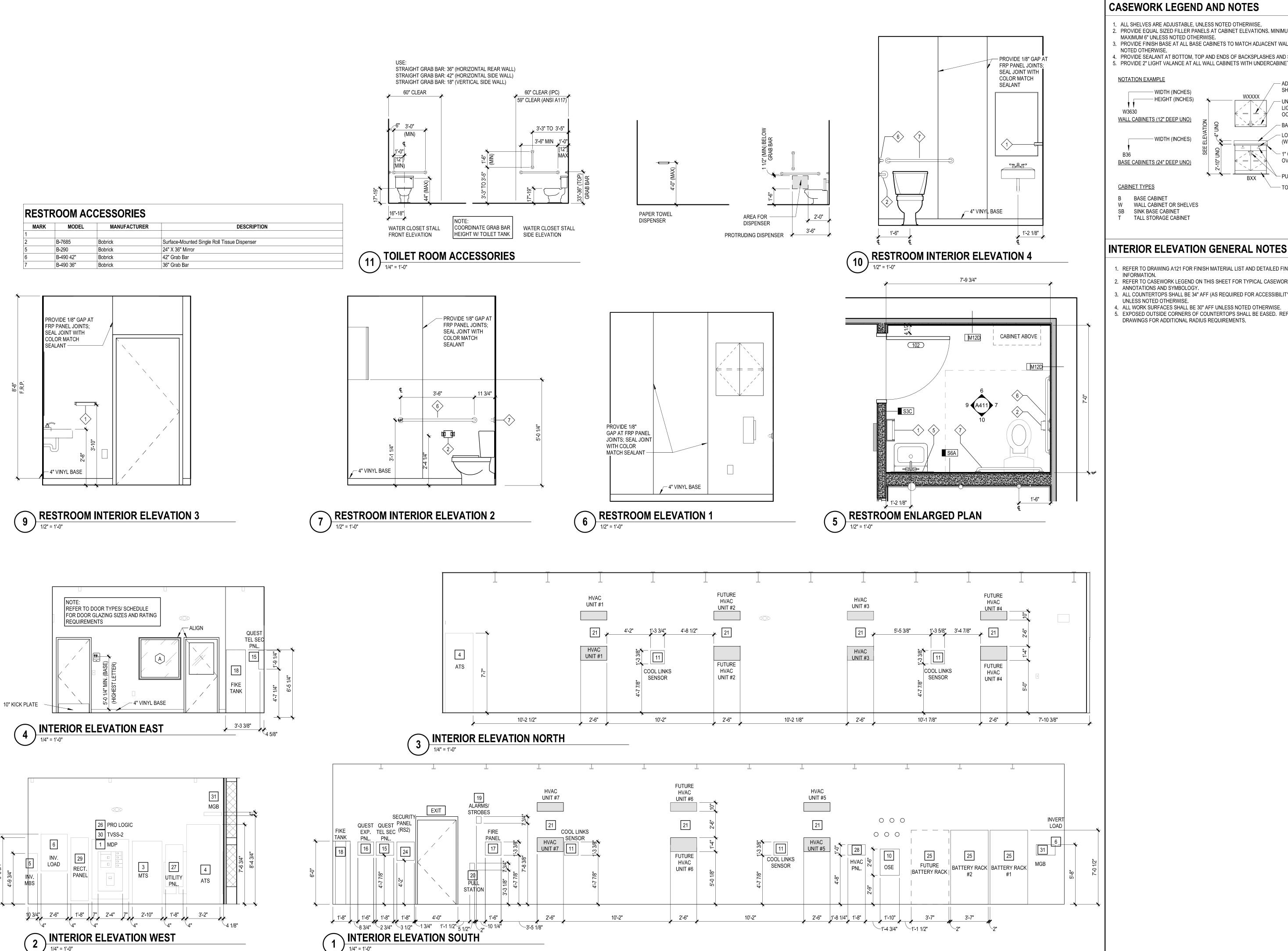
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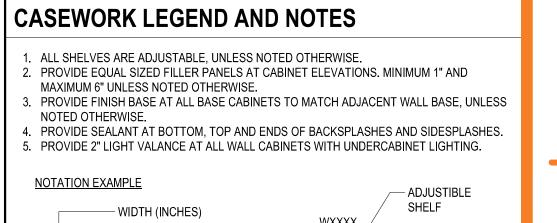
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FILE NUMBER PROFESSIONAL DRAWN BY CHECKED BY

ELEVATIONS AND WALL SECTIONS
A201





_____ HEIGHT (INCHES) - UNDERCABINET LIGHTING (WHERE W3630 OCCURS) WALL CABINETS (12" DEEP UNO) - BACKSPASH - WIDTH (INCHES) (WHERE OCCURS) — 1" COUNTERTOP OVERHANG (UNO) BASE CABINETS (24" DEEP UNO) CABINET TYPES TOE KICK (4" HIGH) B BASE CABINET

T TALL STORAGE CABINET

- 1. REFER TO DRAWING A121 FOR FINISH MATERIAL LIST AND DETAILED FINISH
- 2. REFER TO CASEWORK LEGEND ON THIS SHEET FOR TYPICAL CASEWORK ANNOTATIONS AND SYMBOLOGY.
- 3. ALL COUNTERTOPS SHALL BE 34" AFF (AS REQUIRED FOR ACCESSIBILITY) UNLESS NOTED OTHERWISE.

4. ALL WORK SURFACES SHALL BE 30" AFF UNLESS NOTED OTHERWISE. 5. EXPOSED OUTSIDE CORNERS OF COUNTERTOPS SHALL BE EASED. REFER TO DRAWINGS FOR ADDITIONAL RADIUS REQUIREMENTS.

ISSUANCE BIDS AND PERMITS

08/22/2022 REVISIONS

NO. DATE DESCRIPTION

FILE NUMBER PROJECT MANAGER PROFESSIONAL DRAWN BY CHECKED BY

SECTIONS & INTERIOR **ELEVATIONS**

A411

CHECKED BY

DOORS, WINDOWS AND DETAILS

SDW

AG

A601

RESTROOM F-02 P-04 COMMAND CENTER **MATERIAL LEGEND** FLOOR MATERIALS **CEILING MATERIALS** <u>F-01</u>

ROOM FINISH SCHEDULE

Wall Finish

P-01

CEILING

FINISH

OPEN TO STRUCTURE

WALL FINISHES

ROOM

EQUIPMENT ROOM

NAME

SHERWIN WILLIAMS WATERBORNE ACRYLIC DRYFALL 1 B42BW3 FLAT BACK

STATICWORX 1215 12" X 12" SPRING SNOW TILE WITH GROUNDTRACK PRESSURE SENSATIVE 15/16" WHITE GRID; 9/16" WHITE WALL ANGLE RELEASABLE ADHESIVE WITH COPPER STRIP 2" X 0.016" 26 GA

CORNER PROTECTION MATERIALS

USG *56099 2' X 2' X 5/8" CLEAN ROOM

ACCOUSTICAL TILES - WHITE VINYL

STATIC CARPET 2X2 TILES CONTROL - BOLYU - TCTL - CTL52 APPROVED STATIC ADHESIVE

48" X 3" X 3" STAINLESS STEEL 16 GA CORNER GUARDS (ROUNDED CORNER)

BENJAMIN MOORE AURA EXTERIOR PAINT WHITE DOVE * OC-17 MATTE FINISH

BENJAMIN MOORE AURA TRIM PAINT WHITE DOVE * OC-17

SEMI GLOSS FINISH

WALL BASE MATERIALS

COUNTER TOP MATERIALS <u>CT-01</u>

FLEXCO 4" X 0.08" VINYL WALL BASE MODEL VC40C81P058 SHADOW BLUE FRP BY CRANE COMPOSITES - EMBOSSED WHITE

FLOORS

B-01

FINISH

BASE

30" A.F.F - NEVARMAR LAMINATE - CASA PIEDRA COLOR WITH MATCHING PVC EDGEBAND - WILSON ART D50-60 KHAKI BROWN

REMARKS

WINDOW SCHEDULE

– DOOR FRAME

- DOOR BOTTOM AND

- HOLLOW METAL DOOR

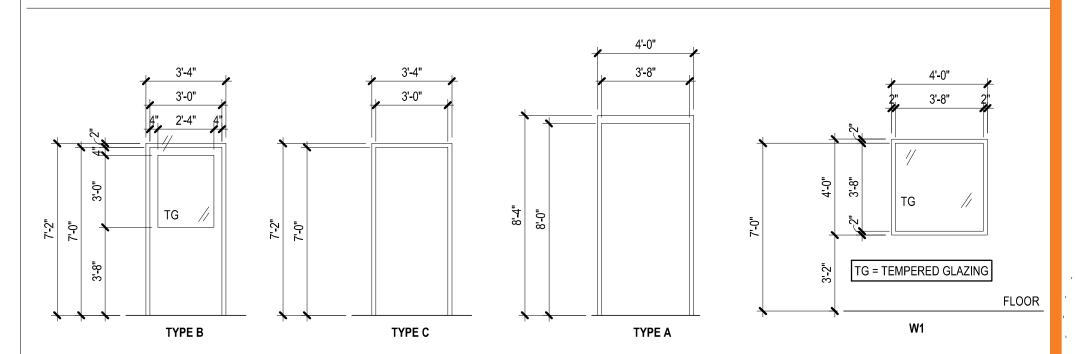
INSET FROM EXTERIOR BY

THRESHOLD PER HARDWARE SCHEDULE

→ SECTION AT ENTRACE DOOR - THRESHOLD

SILL HEIGHT COUNT COMMENTS

DOOR-WINDOW TYPES



DOOR SCHEDULE

HESS 4500 ELECTRONIC STRIKE

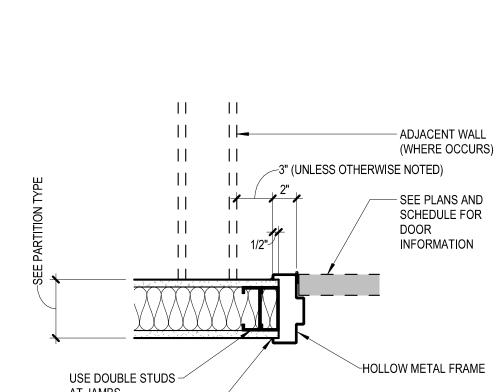
	ROOM		DOOR			FF	RAME			DETAILS		
MARK	NAME	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL	RATING	HDW	HEAD	JAMB	NOTES
T.O. FOUN	IDATION	•			•						•	
101	EQUIPMENT ROOM	3'-8"	8'-0"	А	HM	Α	HM		H-01			4" HEAD FRAME
102	RESTROOM	3'-0"	7'-0"	С	HM	С	HM		H-03			
103	COMMAND CENTER	3'-0"	7'-0"	В	HM	В	HM		H-02			

DOOR HARDWARE TYPES

CONTINUOUS HINGE HAGER 3480 GRADE 1 (STOREROOM) CYLINDRICAL LOCKSET - SATIN CHROME (OR APPROVED EQUAL) LCN 4040 XP CLOSURE ALUM (OR APPROVED EQUAL ADA ALUM. THRESHOLD WEATHER STRIPPING HEAD AND JAMBS BRUSH DOOR SWEEP ALUM. 2 1/2" RAIN GUARD ABOVE DOOR 10" X 34" STAINLESS STEEL KICK GUARD (INTERIOR ONLY)

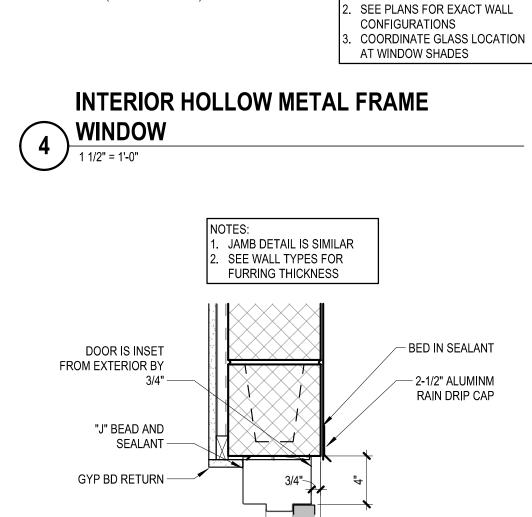
H-02 CONTINUOUS HINGE HAGER 3410 GRADE 1 PASSAGE (CYLINDRICAL) LOCK SET - SATIN CHROME (OR APPROVED EQUAL) LCN 4040 XP CLOSURE ALUM. (OR APPROVED EQUAL) 10" X 30" STAINLESS STEEL KICK GUARD (BOTH SIDES)

H-03
5 KNUCKLE BALL-BEARING HINGE (NRP) HAGER 3410 GRADE 1 PASSAGE (CYLINDRICAL) LOCK SET - SATIN CHROME (OR APPROVED EQUAL) ACTIVE DOOR ONLY UPPER AND LOWER FLUSH BOLTS (INACTIVE DOOR) - SATIN CHROME 10" X 30" STAINLESS STEEL KICK GUARD (BOTH DOORS/ BOTH SIDES)



INTERIOR HOLLOW METAL FRAME

(FULL PERIMETER)



USE DOUBLE STUDS ~

(FULL PERIMETER)

AT JAMBS

PERIMETER SEALANT-

∖ HOLLOW METAL AT CMU FURRING



SEE DOOR SCHEDULE

SEE STR. DRAWINGS FOR -

THRESHOLD DETAIL

+ T.O. FLOOR 100'-0"

T.O. FOOTING 99'-0"

SHEET FOR DOOR INFORMATION

- DOOR IS ON OUTSIDE -SWINGS OUT IN PLAN

ADJACENT WALL

HOLLOW METAL FRAME

INSIDE OF ROOM

OUTSIDE OF ROOM

HEAD DETAIL IS SIMILAR

HOLLOW METAL FRAME

3" (UNLESS OTHERWISE NOTED)

(WHERE OCCURS)

√—1/4" INTERIOR VISION GLAZING

PERIMETER SEALANT (FULL PERIMETER) 6 HOLLOW METAL FRAME AT CMU

- SEE PLANS AND

SCHEDULE FOR

INFORMATION

DOOR

HOLLOW METAL FRAME

-JAMB ANCHOR -PERIMETER SEALANT

(FULL PERIMETER) - BULLNOSE

DOOR

-HOLLOW METAL FRAME

—JAMB ANCHOR

- SEE PLANS AND

SCHEDULE FOR

INFORMATION

FROM EXTERIOR BY SEE PLANS AND SCHEDULE FOR DOOR AT JAMBS INFORMATION -PERIMETER SEALANT

. HEAD DETAIL IS SIMILAR 2. SEE PLANS FOR EXACT

WALL CONFIGURATIONS

2. LAVATORIES SHALL BE PIPED WITH 1-1/4" P-TAP AND TAIL-PIECE, TYPICAL SINK/LAVATORY DETAIL

NOT TO SCALE

1. ALL SIZES AS SHOWN UNLESS OTHERWISE SHOWN ON DRAWINGS

LAVATORY

OR SINK

1-1/2" TAILPIECE -

1/2" FLEX HOSE

HOT & COLD WATER -

1-1/2" TRAP ARM —

CHROME PLATED

ESCUTCHEON -

- 1-1/2" VENT

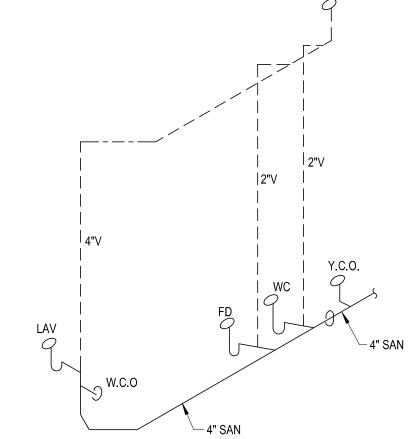
— 2" VENT

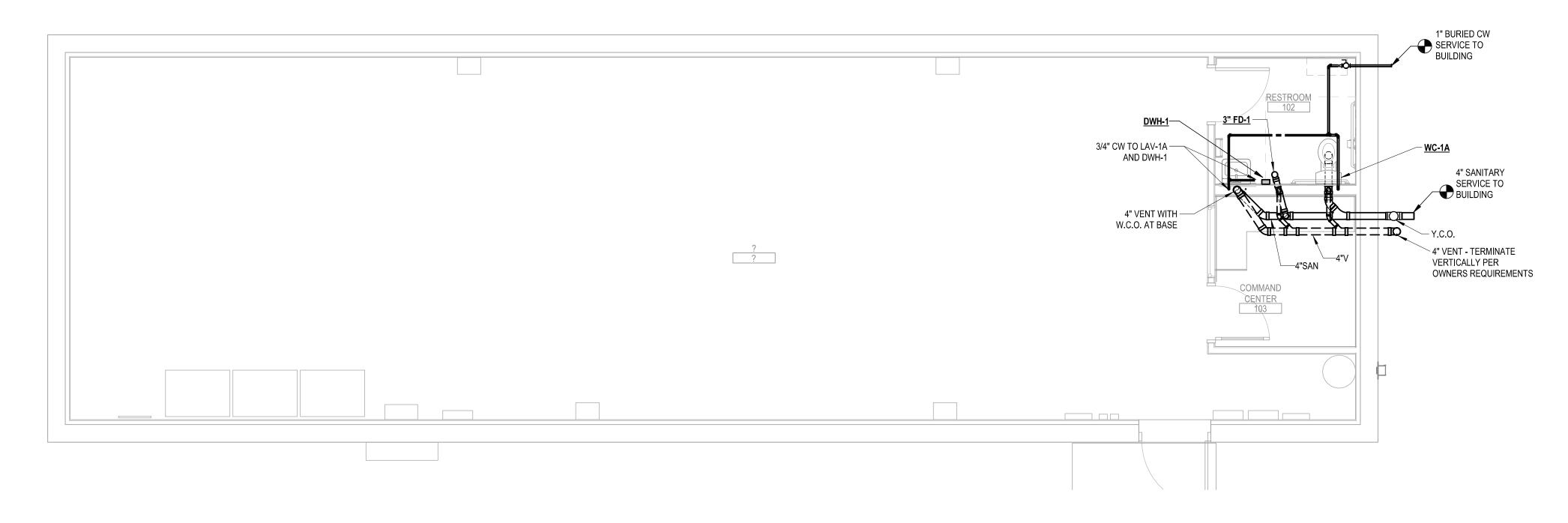
VENTED SANITARY LINE

PROVIDE ADA COMPLIANT PIPING PROTECTION SYSTEM FOR WATER AND WASTE PIPING.

W.C.O

SANITARY SEWER PIPING DETAIL





- 1" CW BLDG.

- 1" BYPASS

(FULL SIZE)

(TYPICAL EACH

PIPE STAND

. THE WATER METER PIPING ASSEMBLY

AND REQUIREMENTS OF THE LOCAL

SHALL COMPLY WITH THE STANDARDS

MUNICIPAL WATER SERVICE PROVIDER.

3/4" WATER METER

DOMESTIC WATER METER PIPING DETAIL

SIDE OF METER)

SUPPLY

REMOTE READ

OUT REGISTER

MOUNT 2'-0"AFF -

BALL VALVE -

(TYPICAL)

1" DOMESTIC -

WATER SERVICE

A BDC

WATER

HEATER

BOX

— CEILING

WATER HEATER NOMENCLATURE

A DWH-1

(B) UNION

- 1/2" HCW.

HOT WATER SYSTEM PIPING SCHEMATIC

NOT TO SCALE

ELECTRIC WATER HEATER SCHEDULE

MANUFACTURER MODEL GPH @ 33 F RISE KW VOLTS PHASE DWH-1 BRADFORD WHITE | TET065V240 | 1 | 4.9 | 208 | 1

© BALL VALVE

(D) PRESSURE VALVE

(E) WATER HAMMER ARRESTOR

- 1-1/4" TRAPPED DRAIN

TO 2" WASTE IN WALL

INSTALL PER MANUFACTURER'S INSTRUCTIONS

PLUMBING GENERAL NOTES

- DRAINS SUBJECT TO EVAPORATION. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- 4. PROVIDE ASSE 1070 MIXING VALVE AT ALL BARRIER FREE SINKS AND ALL HAND
- 5. PIPING INSTALLED IN THE WAY OF ACCESS OR MAINTENANCE TO EQUIPMENT SHALL BE RELOCATED AT THE EXPENSE OF THE INSTALLING CONTRACTOR.
- 6. ALL PLUMBING WORK SHALL MEET LOCAL CURRENT PLUMBING CODE REQUIREMENTS AS A MINIMUM UNLESS EXCEEDED BY PROJECT CONSTRUCTION DOCUMENTS. THE OWNER EXPECTS THE HIGHEST LEVEL OF WORKMANSHIP AND QUALITY STANDARDS.
- 8. COORDINATE LOCATIONS OF FLOOR DRAINS AND FLOOR SINKS WITH LOCATIONS OF EQUIPMENT AND EQUIPMENT HOUSEKEEPING PADS. COORDINATE WITH SLOPING OF FLOOR SO THAT RIM OF DRAIN IS FLUSH WITH FINISH FLOOR.
- 9. COORDINATE HANGING AND SUPPORT OF PIPING WITH STRUCTURAL.
- 12. INSTALL EXTERIOR CLEAN OUTS FLUSH WITH SURFACE. 13. INSTALL PIPING IN AN ORGANIZED MANNER. DO NOT ROUTE IN FRONT OF
- WINDOWS.
- SHEET METAL. HVAC PIPING, ELECTRICAL, AND STRUCTURAL CONDITIONS. NOT ALL REQUIRED OFFSETS AND FITTINGS ARE INDICATED, BUT SHALL BE PROVIDED. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR CLEARANCES. THE LOCATION OF SANITARY, STORM AND VENT LINES SHALL TAKE PRECEDENCE OVER HVAC AND FIRE PROTECTION PIPING AND ELECTRICAL CONDUIT AND CABLE TRAY.
- 15. PROVIDE WATER HAMMER ARRESTORS PER PDI WH-201 AND UP STREAM OF ALL AUTOMATIC AND FAST CLOSING VALVES INCLUDING BUT NOT LIMITED TO SOLENOID VALVES.

PLUMBING SYMBOLS

ıЪı	BALL VALVE
ᅜ	CHECK VALVE W/ARROW INDICATING FLOW
×	GATE VALVE
⊸ı _{co}	END OF LINE, CLEANOUT
-o _{co}	FLOOR, CLEANOUT
—ı _{wco}	WALL, CLEANOUT
ı ı	UNION

PLUMBING SYMBOLOGY

_	
<u> </u>	COLD WATER
<u>HW</u> o	HOT WATER
SAN ○	SANITARY WASTE
<u>C</u>	COIL CONDENSATE TO DRAIN

ABBREVIATIONS - PLUMBING

AC	ARCHITECTURAL CONTRACTOR	1 1 1 1 1 1 1 1 1 1
ADA	AMERICANS WITH DISABILITIES ACT	
BV	BALL VALVE	,
CIP	CAST IRON PIPE	, and the second
CO	CLEANOUT	, and the second
CV	CHECK VALVE	,
CM	COLD WATER	
CVV	COLD WATER	
D&T	DRIP AND TRAP	,
DWH	DOMESTIC WATER HEATER	
FCO	FLOOR CLEAN OUT	
		PROFESSION
ΙE	INVERT ELEVATION	CE MAS L. AS CI
IW	INDIRECT WASTE	SKALL STEEL
I/A/D	VII OVOLT AMPEDEC DE ACTIVE	The second in
KVAR	KILOVOLT-AMPERES REACTIVE	(13) AN 3508M (2)
LAV	LAVATORY	Aug 23, 2022
L (V	DWATOR	M. a. ECHANGE S. S.
MCA	MINIMUM CIRCUIT AMPS	The Control of the Co
		CALIT
PSI	POUNDS PER SQUARE INCH	This item has been electronically signed and sealed
		by Thomas Loren Frey using a Digital Signature and date. Printed copies of this document are not
S	SINK	considered signed and sealed and the signature
SAN	SANITARY	must be verified on any electronic copies.
SNS	SANITARY SEWER	
SPHD	SPRINKLER HEAD	
V	VENT	
v VS		
	VENT STACK	ISSUANCE
VTR	VENT THROUGH ROOF	
W	WASTE	BIDS AND PERMITS
WCO	WALL CLEANOUT	08/22/2022
WS	WASTE STACK	
VVO	WAOIL OIAON	DEVICIONS

PLUMBING FIXTURE SCHEDULE

1. WC-1A BARRIER FREE: EQUAL TO AMERICAN STANDARD #760AA.101 CADET OVATION RIGHT HEIGHT ELONGATED COMPLETE TOILET. VITREOUS CHINA, MEETS DEFINITION FOR HET (HIGH EFFICIENCY TOILET), HIGH EFFICIENCY 1.28 GPF, MEETS EPA WATERSENSE CRITERIA, 16-1/2" RIM HEIGHT FOR ADA ACCESSIBLE APPLICATION, ELONGATED SIPHON ACTION JETTED BOWL, FULLY-GLAZED 2-1/8" TRAPWAY WITH 2" BALL PASS, 9" X 8" WATER SURFACE AREA, 12" ROUGH-IN, 3" FLUSH VALVE, COLOR-MATCHED SLOW-CLOSE TOILET SEAT AND COVER. 2. LAV-1A, BARRIER FREE: EQUAL TO AMERICAN STANDARD #0355.012 LUCERNE WALL-HUNG LAVATORY. VITREOUS CHINA, FRONT OVERFLOW, D-SHAPED BOWL, SELF-DRAINING DECK AREA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FAUCET LEDGE. FURNISH WITH CONCEALED ARM CARRIER, ASSE 1070 MIXING VALVE, UNDER LAVATORY SUPPLY AND WASTE PIPING COVERS. FAUCET: EQUAL TO AMERICAN STANDARD #6114114.002, CAST BRASS CENTERSET BODY WITH METAL LEVER HANDLE, WASHERLESS CERAMIC DISC VALVE CARTRIDGE ASSURES DRIP-FREE PERFORMANCE, 1/2" MALE THREADED INLET SHANKS WITH QUICK SPIN NUTS, ADJUSTABLE HOT LIMIT SAFETY STOP HELPS PREVENT ACCIDENTAL SCALDING, 0.35 GPM PRESSURE-COMPENSATING VR MULTI-LAMINAR SPRAY, CHROME PLATED BRASS GRID DRAIN AND HOLE, PRESSURE COMPENSATING OUTLET: PROVIDES A

CONSTANT WATER FLOW THROUGHOUT THE PRESSURE RANGE, METAL LEVER HANDLE, 1/2" MALE THREADED BRASS INLET SHANKS WITH QUICK SPIN NUTS.

NO. DATE DESCRIPTION

REVISIONS

TRUCTION GROUP, LLC
HEADEND

CONTENTA RD VALLEY, CA 9228

FILE NUMBER PROJECT MANAGER TLF PROFESSIONAL TDK DRAWN BY CHECKED BY TDK

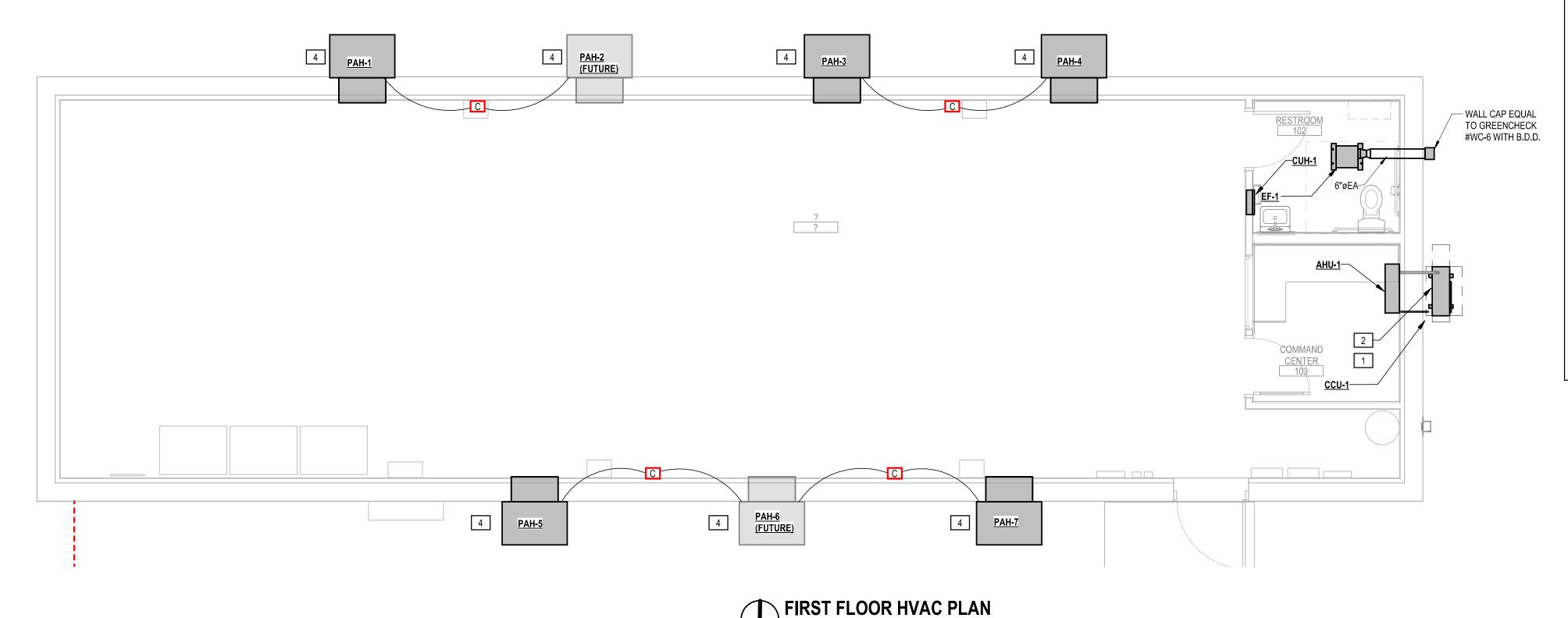
GENERAL PLUMBING INFORMATION P001

SPLIT SYSTEM HEAT PUMP UNIT (INDOOR UNIT)										
SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE				SPLIT SYSTEM AIR CONDITIONING	UNIT SCHEDU	LE				
					ELECTR					
MARK	Manufacturer	MODEL	CFM	NOMINAL COOLING CAP (BTUH)	VOLTAGE	PHASE	PAIRED UNIT			
AHU-1	Mitsubishi Electric	MSZ-GL09NA-U1	406	9000.0	208 V	1	CCU-1			

SPLIT SYSTEM HEAT PUMP UNIT (OUTDOOR UNIT)									
SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE		SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE							
				ELECTRICAL					
MARK	Manufacturer	MODEL	NOMINAL COOLING CAP (BTUH)	VOLTAGE	PHASE	PAIRED UNIT			
CCU-1	Mitsubishi Electric	MUZ-GL09NA-U8	9000.0	208 V	1	AHU-1			

PACKAGE AIR CONDITIONING UNIT										
	1				ELECTR	ICAL				
MARK	Manufacturer	MODEL	CFM	NOMINAL COOLING CAP (BTUH)	VOLTAGE	PHASE	NOTES			
PAH-1	MARVAIR	MGA1072AA050C	1925	72000.0	208 V	1	FURNISHED WITH AIRSIDE ECONOMIZER			
PAH-2 (FUTURE)	MARVAIR	MGA1072AA050C	1925	72000.0	208 V	1	FURNISHED WITH AIRSIDE ECONOMIZER			
PAH-3	MARVAIR	MGA1072AA050C	1925	72000.0	208 V	1	FURNISHED WITH AIRSIDE ECONOMIZER			
PAH-4	MARVAIR	MGA1072AA050C	1925	72000.0	208 V	1	FURNISHED WITH AIRSIDE ECONOMIZER			
PAH-5	MARVAIR	MGA1072AA050C	1925	72000.0	208 V	1	FURNISHED WITH AIRSIDE ECONOMIZER			
PAH-6 (FUTURE)	MARVAIR	MGA1072AA050C	1925	72000.0	208 V	1	FURNISHED WITH AIRSIDE ECONOMIZER			
PAH-7	MARVAIR	MGA1072AA050C	1925	72000.0	208 V	1	FURNISHED WITH AIRSIDE ECONOMIZER			

ELECTRIC UNIT HEATER SCHEDULE										
		UNIT DIME	ENSIONS		ELECTRICAL		L			
MARK	MANUFACTURER	W	Н	KW	AMPS	٧	PH	REMARKS		
CUH-1	QMARK #AWH3150F	15 3/4"	19 5/16"	1.5	12.5 A	120 V	1	FURNISHED WITH INTEGRAL THERMOSTAT AND 1" SEMI-RECESSED FRAME.		



MECHANICAL GENERAL NOTES

- 1. COMPLY WITH ALL APPLICABLE LOCAL, STATE AND/OR REGULATORY AGENCIES, CODES AND REGULATIONS FOR NEW WORK.
 - 2. DO NOT INSTALL EQUIPMENT, PIPING OR DUCTWORK OVER ANY ELECTRICAL
- EQUIPMENT OR COMMUNICATION ROOMS. 3. DO NOT RUN ANY PIPING OR DUCTWORK INTO THE ELECTRICAL ROOM UNLESS
- DEDICATED TO SERVE THAT ROOM. 4. INSTALL MECHANICAL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE, AND
- REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH A MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS.
- 5. LOCATE THERMOSTAT/TEMPERATURE SENSORS/CONTROLLERS 48" ABOVE FINISHED FLOOR OR AS NOTED ON THE PLANS.
- 6. WORK IDENTIFIED WITH MECHANICAL AND ELECTRICAL NOTES AND KEY NOTES SHALL BE PERFORMED BY QUALIFIED MECHANICAL AND ELECTRICAL CONTRACTORS RESPECTIVELY UNDER DIRECTION OF THE CONSTRUCTION MANAGER. COORDINATE WITH OWNER'S REPRESENTATIVE OR CONSTRUCTION MANAGER.
- 7. VERIFY ALL CONDITIONS IN FIELD BEFORE START OF CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL FIELD
- CONDITIONS. 8. COORDINATE WORK WITH OTHER TRADES AND WITH THE CONSTRUCTION
- MANAGER. 9. COORDINATE ANY REQUIRED SHUTDOWN OF SERVICES OR EQUIPMENT WITH OWNER'S REPRESENTATIVE OR CONSTRUCTION MANAGER, MINIMIZE
- INTERRUPTION OF EXISTING SERVICES. 10. PROVIDE ALL MISCELLANEOUS STEEL AND ITEMS REQUIRED FOR THE PROPER
- INSTALLATION OF ALL PIPE, SHEET METAL AND EQUIPMENT. 11. COORDINATE FLOOR, WALL & ROOF PENETRATIONS ETC. WITH ARCHITECTURAL
- 12. FIRESTOP SHALL BE PROVIDED IN HOLES AND PENETRATIONS IN RATED ASSEMBLIES.

PAH DETAIL

UNIT FURNISHED BY

OWNER, INSTALLED

BY CONTRACTOR.

ABBREVIATIONS - HVAC

- Building WALL.

WITH PAH UNIT.

- DUCT EXTENSIONS BY

CONTRACTOR. MINIMUM

WITH 1' CLEARANCE TO

WALL OPENINGS.

WITH PAH UNIT.

- SUPPORT BRACKET-

FURNISHED WITH UNIT.

0.019" GALVANVIZED STEEL

- RETURN GRILLE (FURNISHED

FLOOR.

- SUPPLY GRILLE (FURNISHED

ARCHITECTURAL CONTRACTOR AIR CONDITIONING UNIT ACU AMERICANS WITH DISABILITIES ACT

AIR HANDLING UNIT

BDD BACKDRAFT DAMPER CAP CAPACITY

COOLING COIL

CD CONDENSATE DRAIN CF CUBIC FOOT

AHU

CC

CFM CUBIC FEET PER MINUTE

CH CABINET HEATER

CLR CLEAR, CLEARANCE COND CONDENSATE

CONV CONVECTOR COORD COORDINATE CU COPPER

CV CONTROL VALVE

DB DRY BULB

DISC DISCONNECT DPR DAMPER

EXHAUST AIR EDB ENTERING DRY BULB

EXHAUST FAN

EXTERNAL STATIC PRESSURE ESP

EXPANSION TANK

EXH EXHAUST

FUSED DISCONNECT SWITCH

GEN GENERATOR

GALLONS PER HOUR

GALLONS PER MINUTE GATE VALVE

REFRIGERATION HOT GAS

HORSEPOWER

INSULATE, INSULATION

INFRARED

MINIMUM CIRCUIT AMPS

NONFUSED NFDS NONFUSED DISCONNECT SWITCH

KILOVOLT-AMPERES REACTIVE

OUTLET VELOCITY

PHASE

REFRIGERATION SUCTION

VOLTS

SHEETMETAL NOTES

1. THE INSTALLATION OF ALL DUCTWORK SHALL BE CLOSELY COORDINATED WITH NEW PLUMBING, ELECTRICAL, AND STRUCTURAL CONDITIONS. NOT ALL REQUIRED OFFSETS AND FITTINGS ARE INDICATED ON DRAWINGS. BUT SHALL BE PROVIDED. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR CLEARANCES. ALTERNATE DUCT ROUTING SHALL BE APPROVED BY ARCHITECT/ENGINEER BEFORE PROCEEDING IN ORDER TO ENSURE THAT THE AVAILABLE STATIC PRESSURE REMAINS ADEQUATE. DUCTWORK LOCATION SHALL TAKE PRECEDENCE OVER HVAC AND FIRE PROTECTION PIPING AND ELECTRICAL CONDUIT AND CABLE TRAY.

ACCEPTED. A MINIMUM OF 2 FEET SHALL BE PROVIDED BETWEEN RUNOUT TAKEOFFS FROM TRUNK DUCTS.

2. REFER TO DUCT TAKEOFF DETAILS. SPIN-IN TYPE WITH SCOOPS SHALL NOT BE

3. THERMOSTAT AND SENSORS LOCATIONS WITHIN DUCTWORK SHALL BE VERIFIED WITH ARCHITECT/ ENGINEER BEFORE ROUGH -IN.

4. RUNOUT BALANCING DAMPERS SHALL BE MOUNTED AS CLOSE TO MAIN DUCT AS POSSIBLE.

5. DUCTWORK LAYOUT HAS BEEN DESIGNED TO ABSORB NOISE. ALL FITTINGS SHALL BE PROVIDED AS INDICATED.

6. TERMINAL UNITS SHALL BE MOUNTED TO NOT IMPAIR ACCESS TO FILTERS, COILS AND CONTROLS. 7. WATERTIGHT CONCRETE CURBS SHALL BE PROVIDED AROUND ELEVATED FLOOR

SLAB PENETRATIONS. 8. DUCTWORK AND ASSOCIATED COMPONENTS SHALL CLEAR DOORS AND WINDOWS.

9. UNLESS OTHERWISE NOTED, ALL DUCTWORK ABOVE CEILING OR EXPOSED IS OVERHEAD AND AS HIGH AS POSSIBLE TO THE UNDERSIDE OF THE STRUCTURE, WITH SPACE FOR INSULATION WHERE REQUIRED.

10. LOCATE MECHANICAL EQUIPMENT SUCH THAT THERE IS UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS AND VALVING.

11. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS CONNECTED TO MECHANICAL EQUIPMENT THAT REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE

EQUIPMENT UNLESS OTHERWISE NOTED.

12. DUCTWORK SIZES ARE INSIDE CLEAR DIMENSIONS.

13. ALL ELBOWS IN DUCTWORK SHALL BE RADIUS ELBOWS UNLESS OTHERWISE NOTED. RADIUS ELBOWS SHALL HAVE CENTERLINE RADIUS OF CURVATURE 1.5 TIMES THE DUCT DIAMETER OR WIDTH IN THE PLANE OF TURN. WHERE SQUARE ELBOWS ARE

SHOWN, INSTALL TURNING VANES. 14. DUCTS CONNECTED TO EQUIPMENT SHALL EQUAL EQUIPMENT CONNECTION SIZE

UNLESS NOTED OTHERWISE. 15. MAXIMUM LENGTH ON FLEXIBLE DUCT SHALL BE 5'-0", UNLESS OTHERWISE NOTED ON

DETAILS OR SPECIFICATION. 16. REFER TO ARCH REFLECTED CEILING PLANS FOR EXACT DIFFUSER LOCATIONS IN

AREAS WITH A CEILING.

MECHANICAL SYMBOLS

- | EXHAUST DUCT UP EXHAUST DUCT DOWN MECHANICAL EQUIPMENT (EXAMPLE ACV-##) SEE SCHEDULE FOR ADDITIONAL CABINET UNIT HEATER, TYPE 'CUH-#'

HVAC KEYNOTES

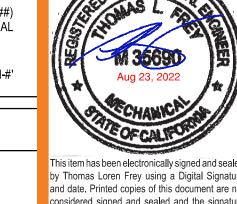
- 1. MOUNT OUTDOOR AIR COOLED CONDENSING UNIT 36" ABOVE GRADE ON WALL BRACKETS (81 POUND WEIGHT). INSTALL PER THE MANUFACTURER'S
- 2. SIZE AND INSTALL REFRIGERANT PIPING BETWEEN INDOOR EVAPORATOR (AHU-1) AND OUTDOOR AIR COOLED CONDENSING UNIT (CCU-1) PER THE MANUFACTURER'S INSTRUCTIONS; INSULATE PER THE SPECIFICATIONS.
- 3. MOUNT TOP OF AHU-1 6" BELOW THE FINISH CEILING HEIGHT. FURNISH AND INSTALL A 1" TRAPPED COPPER CONDENSATE LINE IN THE EXTERIOR WALL AND DISCHARGE
- 4. PACKAGE THROUGH THE WALL AIR CONDITIONING UNIT FURNISHED BY THE OWNER INSTALL A 1" TRAPPED COPPER CONDENSATE LINE AND DISCHARGE AT THE



INSTRUCTIONS, MAINTAIN ALL REQUIRED UNIT CLEARANCES.

AT THE BUILDING EXTERIOR 6" ABOVE FINISH GRADE.

INSTALLED BY THE CONTRACTOR. UNITS ARE PROVIDED WITH FACTORY INSTALLED ECONOMIZER CONTROLS (FIELD INSTALLED THERMOSTAT), SUPPLY AND RETURN GRILLES. INTALL UNIT PER THE MANUFACTURER'S INSTRUCTIONS. FURNISH AND BUILDING EXTERIOR 6" ABOVE FINISH GRADE.



DEN

AR

CONTENTA VALLEY, CA

by Thomas Loren Frey using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

ISSUANCE BIDS AND PERMITS 08/22/2022

REVISIONS NO. DATE DESCRIPTION

FILE NUMBER PROJECT MANAGER PROFESSIONAL DRAWN BY CHECKED BY

TLF

TDK

GENERAL MECHANICAL INFORMATION M001

(Page 7 of 13)

§140.4(n)

NA: No operable windows

Provided

Provided

Registration Provider: Energysoft

Air Filtration per §120.1(c) and §141.0(b)2

Provided per §120.1(c) (NR and

Hotel/Motel))

DCV or Sensor Controls per §120.1(d)3

§120.1(d)5, and §120.1(e)3 6

Air Filtration per §120.1(c) and §141.0(b)2

Provided per §120.1(c) (NR and

Hotel/Motel))

DCV or Sensor Controls per §120.1(d)3,

§120,1(d)5, and §120.1(e)3 6

DCV

NA: Not required per

§120.1(d)3

NA: Not required

NA: Not required per

§120.1(d)3

NA: Not required space type

Registration Provider: Energysoft

Report Generated: 2022-04-06 08:47:50

CALIFORNIA ENERGY COMMISSION

Air Filtration per §120.1(c) and §141.0(b)2

Provided per §120.1(c) (NR and

Hotel/Motel))

DCV or Sensor Controls per §120.1(d)3,

NA: Not required per

§120.1(d)3

NA: Not required

space type

§120.1(d)5, and §120.1(e)3 6

DCV

Occ Sensor

Ventilation for this System Complies?

NRCC-MCH-I

(Page 9 of 13

NRCC-MCH-E

(Page 8 of 13)

4/6/2022

TITLE 24 DOCUMENTATION

STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE Charter Headend Yucca Valley Report Page: 6720 La Contenta Rd. Date Prepared: I. SYSTEM CONTROLS his table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b) 2E for altered pace conditioning systems. Shut-Off Floor Area System Name §110.2(b) & (c)1, Controls Temp. Reset Being Served Controls Zoning §110.12 and §120.2(b) \$120.2(a)or \$141.0(b)2E §120.2(e) §140.4(f) NA: Eq. type per 110.2(c NA: Single Continuous NA: PTAC, PTHP, Rm AC, HI Marv Air 6 ton AC Single zone <= 25,000 ft2 per exception¹ 120.2(e)1 Heat/Cool Auto Timer 4 Hour Timer Single zone <= 25,000 ft² Switch Auto Timer **EMCS** Heat only restroom Single zone <= 25,000 ft² Setback 4 Hour Timer Included Switch FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats. *Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: 5A Temp Reset: Exempt because zones compliant with 5140.4(d): EXCEPTION 1 to §140.4(f) . VENTILATION AND INDOOR AIR QUALITY is table is used to demonstrate compliance with mandatory ventilation requirements in <u>\$120.1</u> and <u>\$120.2(e)3B</u> for all nonresidential, high-rise residential and hotel/motel cupancies. For alterations, only ventialtion systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required utdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet. Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table. ☐ Check this box if the project included new or altered high-rise residential dwelling units. Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2. Registration Number: Registration Date/Time: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-04-06 08:47:50 Schema Version: rev 20190401 STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE Charter Headend Yucca Valley Report Page: roject Name: Project Address: 6720 La Contenta Rd. Date Prepared:

ystem Design OA CFM

conditioned |# of Shower

toilets

Floor Area heads/

Airflow¹

Floor Area heads/

System Design OA CFM

Conditioned # of Shower

toilets

Floor Area heads/

³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

⁵ For lecture halls with fixed seating, the expected number of occupants shall be shall be determined in accordance with the California Building Code.

and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

Mechanical Ventilation Required per §120.1(c)3

¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

toilets

Mechanical Ventilation Required per §120.1(c)

(ft²)

1258

Mechanical Ventilation Required per §120.1(c)3

(ft²)

10 11 12 13 14

of

people⁵

of

people5

Charter Headend Yucca Valley Report Page

10 11 12 13 14

people⁵

² Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only

ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing

6 5120.2(e)3 requires systems serving rooms that are required by 5130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation.

Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles

6720 La Contenta Rd. Date Prepared

System Design

Transfer Air CFM

Min OA Min CFM

Transfer Air CFM

Min OA Min CFM

CFM

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20190401

System Design

Transfer Air CFM

Min OA Required Min CFM

CFM

CFM

Required Provided per Design

CFM

0 18 Ventilation for this System Complies?

0 18 Ventilation for this System Complies?

Provided per Design

CFM

Exh. Vent per §120.1(c)4

Required Provided per Design

Registration Nu	umber:					Registrat	tion Date/Time	#	Re	gistration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance				ce	1, POIC 10, MARGINET	ersion: 2019.1 Version: rev 20		Report Ge	enerated: 2022-04-06 08:47:50	
	^{RNIA} al Systems								CAUSE	DRNIA ENERGY COMMISSION
NRCC-MCH-E CERTIFICATE OF	COMPLIANCE								CALIFO	NRCC-MCH-E
Project Name:	CONFLIANCE				Charter Headend	Vacca Valloy	Poport Page:			(Page 5 of 13)
Project Address							Date Prepared	45.		4/6/2022
vjecs Audress	**				07 Z0 La	CONTENTED TAU.	Jule (Tepate)			4/ 0/ 2022
E 10/10 0:10		DV 6 1115	C) (CTF)	(C)						
	TEM SUMMARY (D	KY & WET	SYSTEM	15)						
Electric Resist	NIKA BERMAA SIGNASTA									
01		(02	03		04				
r	Name or Item Tag			pment ription	Output Capacity (kW)	Applicable Exception to \$140.4(g) Allowing Electric Resistance Heating			nce Heating	
Н	Heat only restroom		Ot	her	0	Exception1: Supplement to a heating system in which at least 60% of the annual energy requirement is supplied by site-solar or recovered energy.				
G. PUMPS	-		1211							1
This table is us	sed to demonstrate c	ampliance v	with Pres	crintive hy	dronic system r	requirements	s found in 51	10 4(k) applicable to	numns < 5hn	
01	02	omphance v	03	04	05	equiverne ne.	06		07	08
			- 00					Controls per	(2)	100
Name or Item Tag	Equipment	Туре	Qty	НР	Variable Flo	ow Hy	dronic Heat P	ump Isolation	VSD on Pumps > 5HP	Differential Pressure Sensor
H. FAN SYSTE	EMS & AIR ECONO	MIZERS				-				
This table is us		ompliance v				nd in <u>§140.4</u>	(c), <u>5140.4(e</u> ,	ond <u>§140.4(m)</u> for	fan systems. Fan systems servi	ing only process loads are
System Name:	Marv Air 6 ton AC	Economiz	50	1980000	ial Enthalpy	Economi: Control		ned per <u>§140.4(e)</u> a (m)	System Fan Type:	Constant Volume
01	02		03		04		05	06	07	08
F N					D	45.00			Fan Power Pressure Drop	Adjustment - Table 140.4-B
Fan Name or Item Tag	Fan Function	n	Qty	waximum	Design Supply (CFM)	Airtiow	HP Unit ²	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		7		30800		ВНР	0.1		

Charter Headend Yucca Valley Report Page:

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

Condition

(°F)

6720 La Contenta Rd. Date Prepared:

04

04

Rated Input Capacity

(Btu/h)23

<300,000

05

Minimum

Efficiency

Required per

Tables 110.2 /

Title 20

8.2

Rated

Efficiency

0.82

05 06

0.82

Heating Mode

System Name:	Marv Air 6 ton AC	Economizer:1	Differential Enthalpy	Econom	St. Add	gned per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02	03	04		05	06	07	08
Con Name or			Maximum Daviga Supul				Fan Power Pressure Drop	Adjustment - Table 140.4
Fan Name or Item Tag	Fan Function	n Qty	Maximum Design Supply Airflow (CFM)		HP Unit ²	HP Unit ² Design HP	Device	Design Airflow through Device (CFM)
SF	Supply	7	30800		ВНР	0.1		
Total Sys	tem Design Supply Ai	irflow (CFM):	30800	The state of the s	ystem Design (B)HP:	0.7	Maximum System Fan Power (B)HP:	4.14

Registration Number:	Registration Date/Time:	Registration Provider: Energy
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20190401	Report Generated: 2022-04-06 08:4

Charter Headend Yucca Valley Report Page

Project Address:				6720 La 0	Contenta Rd.	Date I	repared:			4/6/202
H. FAN SYSTEN	IS & AIR ECON	OMIZERS								
System Name:	CCU-1	Economizer	···¹ NA	A: <=54 kBtu/h cooling	Economi		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02	0	3	04			05	06	07	08
F				Maximum Design Supply Airflow (CFM)			1		Fan Power Pressure Drop	Adjustment - Table 140.4-
Fan Name or Item Tag	Fan Functi	on Q	ty V			HP Unit ² Design HP		Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	400		В	HP	0.1		
Total System	m Design Supply	Airflow (CFM):		400	Total Sy	stem [B)HP:)esign	0.1	Maximum System Fan Power (B)HP:	0.38
System Name:	Heat only restroom	Economizer	:1 NA	A: <=54 kBtu/h cooling	Economi Control	100.00	Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02	0	3	04			05	06	07	08
Can Name on				Assissant Dasies County	ATafla	111			Fan Power Pressure Drop	Adjustment - Table 140.4-F
Fan Name or	Fan Functi	on Q	ty IV	Maximum Design Supply	AIFTIOW	HP	Unit ²	Design HP	2000	Design Airflow through

lotal system besign supply Almow (CFM):	U	(B)HP:	U	Power (B)HP:
OOTNOTES: Computer room economizers must meet re	equirements of <u>§140.9(a)</u>	and will be documented on	the NRCC-PRC-E d	ocument.

¹ FOOTNOTES: Computer room economizers must meet requirements of §140.9(a)	and will be docum
² The unit used for HP must be consistent for all fans within a system.	

Supply

Total System Design Supply Airflow (CFM):

et t	he design	heating an	d cooling lo	ads of the l	building per	Į.
itior	sheet ta	bles.				
bla	nk.					

	Registration Date/Time:	Registration Provider: Energy
y Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20190401	Report Generated: 2022-04-06 08:4

BHP

Total System Design

dda Faran aife	E A CAMPAGE CO
vider: Energysoft	Registration Number
2-04-06 08:47:50	CA Building Energy Efficiency St

Registration Number	
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	

Registration Date/Time Registration Provider: Energysoft Report Version: 2019.1.003 Schema Version: rev 20190401

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a). §140.4(b) and §140.4(k) or §141.0(b)2 for alterations. Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters) 04 05 06 07 08 09 10 11 Equipment Sizing per Mechanical Schedule (kBtu/h) 5140.4 (a&b) Cooling Output^{2,3} Load Calculations^{3,4} Heating Output^{2,3} Smallest Size Equipment Type per Tables 110.2 & Name or Item Equipment Category per Available1 Tables 110.2 Title 20 Rated Heating Per Design (kBtu/h) Load Rated Heating Cooling §140.4(a) (kBtu/h) (kBtu/h) Output (kBtu/h) (kBtu/h) (kBtu/h) (kBtu/h) Mary Air 6 ton 392.63 -3.07 14.79 Unitary Heat Pumps Air-cooled, split (3 phase) 43.4 NA: Load CCU-1 Unitary Heat Pumps Air-cooled, split (3 phase) 10.89 -0.44 1.02 Controls

Registration Date/Time:

Charter Headend Yucca Valley Report Page:

6720 La Contenta Rd. Date Prepared:

Report Version: 2019.1.003

Schema Version: rev 20190401

AC, air cooled, split (3 phase) Unitary AC/ Condensers Controls restroom FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to mee §140.4(a). Healthcare facilities are excepted. ²It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specifical

3 If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load b ⁴ Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

STATE OF CALIFORNIA

NRCC-MCH-E

Project Name:

Project Address:

Mechanical Systems

A. GENERAL INFORMATION

03 Occupancy Types Within Project

☐ Hotel/Motel Guest Rooms (R-1)

☐ High-Rise Residential (R-2/R-3)

<u>\$140.4</u>, or <u>\$141.0(b)2</u> for alterations.

Registration Number:

STATE OF CALIFORNIA

NRCC-MCH-E

Project Name:

Project Address:

Summary

§110.1,

5140.4

Mechanical Systems

CERTIFICATE OF COMPLIANCE

C. COMPLIANCE RESULTS

D. EXCEPTIONAL CONDITIONS

Registration Number:

STATE OF CALIFORNIA

NRCC-MCH-E

Project Address:

Heat only

Mechanical Systems

CERTIFICATE OF COMPLIANCE

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

5140.4(k)

Air System(s)

Mechanical Controls

Mechanical Controls (existing to remain, altered

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

01 Project Location (city)

02 Climate Zone

☐ Office (B)

path outlined in §140.4, or §141.0(b)2 for alterations.

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401

Registration Provider: Energysoft Report Generated: 2022-04-06 08:47:50

Registration Number: CA Building Energy Efficiency S

STATE OF CALIFORNIA

NRCC-MCH-E

Mechanical Systems

CERTIFICATE OF COMPLIANCE

STATE OF CALIFORNIA

Name or Item

Tag

Mary Air 6 ton

CCU-1

Heat only

restroom

Boiler Efficiency and Controls

Name or Item Tag

no central heating plant

3 Includes oil-fired (residual)

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

1390

See Table .

Registration Provider: Energysoft

CALIFORNIA ENERGY COMMISSION

§110.2(e)2

NRCC-MCH-E

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ompliance Results

Registration Provider: Energysoft

CALIFORNIA ENERGY COMMISSION

NRCC-MCH-E

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Air Economizer

☑ Electric Resistance Heat

Zonal Systems/ Terminal Boxes

□ Ductwork (existing to remain, altered or new)

(Page 1 of 13)

4/6/2022

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive

04 |Total Conditioned Floor Area

Total Unconditioned Floor Area

Non-refrigerated Warehouse (S

Healthcare Facility (I)

Other (write in)

6720 La Contenta Rd. Date Prepared:

This table Includes mechanical systems ar components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in

Water Economize

Pumps

☐ Chillers

■ Boilers

System Piping

☐ Cooling Towers

Wet System Components

Registration Date/Time:

Charter Headend Yucca Valley Report Page:

NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

Yes AND Yes AND

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

Controls

5110.2,

5140.4(f

(See Table I)

Mandatory Measures Compliance (See Table Q for Details

Fans/

5140.4(c),

§140.4(e)

6720 La Contenta Rd. Date Prepared:

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES

5120.1

(See Table J)

Controls

5140.4(d)

(See Table K)

\$120.3,

(See Table L

Report Version: 2019.1.003

Schema Version: rev 20190401

Charter Headend Yucca Valley Report Page:

Yucca Valley

Retail (M

Relocatable Class Bldg (i

Mechanical Systems

CERTIFICATE OF COMPLIANCE

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Size Category

(Btu/h)

<65,000

<65,000

<65,000

Equipment Type¹

Hot Water, Gas-Fired

¹FOOTNOTES: Use NRCC-PLB to document compliance with domestic water heating equipment.

²Maximum capacity- minimum and maximum ratings as provided for and allowed by the unit's controls

Device (CFM)

Vlaximum System Fan

CALIFORNIA ENERGY COMMISSION

NRCC-MCH-E

(Page 6 of 13)

CALIFORNIA ENERGY COMMISSION

Cooling Mode

Minimum

Efficiency

Required per

Tables 110.2 /

Title 20

13.0

13.0

Boiler Controls per 5140.4(k)

Temperature Rese

NA: <=500,00 Btu/h

J. VENTILATION AND INDOOR AIR QUALITY

80

ot item Tag

System Nam

Space Name

ot item Tag

Command

Center

Registration Number:

STATE OF CALIFORNIA

oject Name:

Project Address

ystem Name

ot item Tag

Restroom

outside air to occupiable space.

K. TERMINAL BOX CONTROLS

⁴ See Standards Tables 120.1-A and 120.1-B.

This section does not apply to this project.

NRCC-MCH-E

Mechanical Systems

CERTIFICATE OF COMPLIANCE

Marv Air 6 ton AC

Occupancy Type4

Allothers

CCU-1

Occupancy Type⁴

Allothers

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Heat only restroom

Toilet, private

17 Total System Required Min OA CFM

17 Total System Required Min OA CFM

. VENTILATION AND INDOOR AIR QUALITY

17 Total System Required Min OA CFM

07 08 09

Isolation Valve

NA: only 1 boiler

SEER

SEER

AFUE

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This item has been electronically signed and sealed by Thomas Loren Frey using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies. ISSUANCE

BIDS AND PERMITS 08/22/2022

REVISIONS NO. DATE DESCRIPTION

FILE NUMBER PROJECT MANAGER TLF PROFESSIONAL DRAWN BY CHECKED BY

BP

TDK