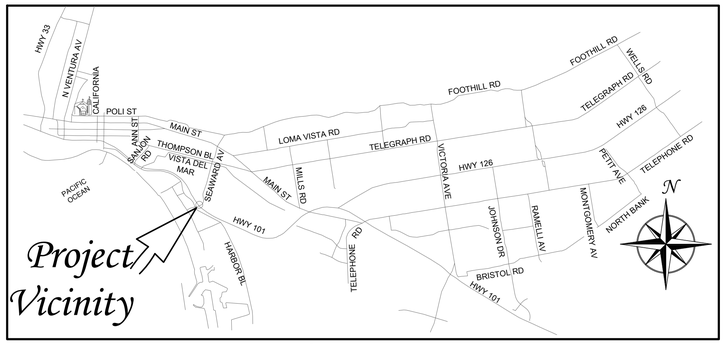
CITY OF SAN BUENAVENTURA
PUBLIC WORKS DEPARTMENT - ENGINEERING DIVISION

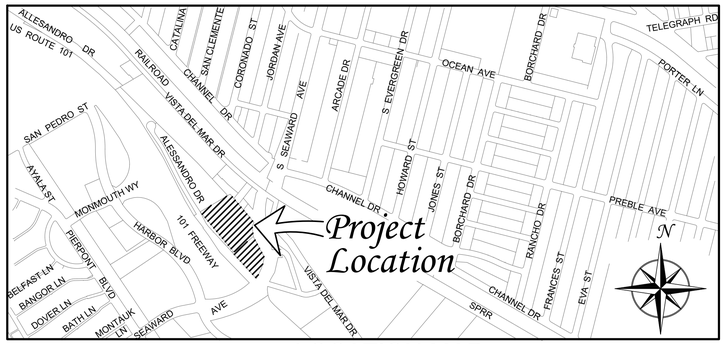
INTERIM FIRE STATION NO. 7
Specification No. 2025-010

2269 ALESSANDRO DR (APN 076-0-010-115)



VICINITY MAP

NO SCALE



LOCATION MAP

NO SCALE

SCOPE OF WORK

THE SCOPE OF WORK CONSISTS OF THE INSTALLATION OF AN INTERIM FACILITY: LIVING QUARTERS, GYM, AND A APPARATUS BAY. BOTH LIVING QUARTERS AND GYM ARE FACTORY BUILT MODULAR. THE APPARATUS BAY IS SITE BUILT, PRE-ENGINEERED METAL BUILDING (PEMB). PROPOSED BUILDINGS WILL BE FIRE SPRINKLED, AS A SEPARATE PERMIT.

OWNER: CITY OF BUENAVENTURA

ADDRESS: 2269 ALESSANDRO DR

APN: APN 076-0-010-115

LOT SIZE: 133,585 SF (3.0 AC)

FIRE ZONE: URBAN UNZONED FIRE HAZARD

BLDG AREAS:

APPARATUS BAY= 5,000 SQ.FT.
LIVING QUARTERS= 2,880 SQ.FT.
MULTI PURPOSE ROOM= 960 SQ.FT.

EXISTING FIRE HYDRANTS ARE SUFFICIENT FOR FIRE WATER SUPPLY DEMANDS OF BUILDINGS.

UTILITIES/SERVICES

WATER:	VENTURA WATER 336 SAN JON RD VENTURA, CA 93001 (805)652-4505	GAS:	SO. CALIFORNIA GAS CO. 9400 OAKDALE AVE CHATSWORTH, CA 91313 (818)701-3319
SEWER:	VENTURA WATER 1400 SPINNAKER DR VENTURA, CA 93001 (805)677-4118	TELEPHONE:	AT&T 1264 CALLENS RD VENTURA, CA 93003 (805)639-0540
STORM DRAIN:	VENTURA PUBLIC WORKS 336 SANJON RD VENTURA, CA 93001 (805)652-4521	CABLE TV:	TIME WARNER 2525 KNOLL DR VENTURA, CA 93003 (805)477-4439
ELECTRIC:	SO. CALIFORNIA EDISON CO. 10060 TELEGRAPH RD VENTURA, CA 93004 (805)654-7476	CABLE TV:	CHARTER CABLE 51 W. MAIN ST VENTURA, CA 93001 (805)648-5705

CBC CODE COMPLIANCE SUMMARY

A. BUILDING TYPE OF CONSTRUCTION:
- TYPE II-B, NON-COMBUSTIBLE CONSTRUCTION; GOVERNS DUE TO NON-SEPARATED MIXED OCCUPANCY.

B. BUILDING OCCUPANCY CLASSIFICATION:
- GROUP S-2, APPARATUS BAY (FIRE ENGINE CARPORT).
- GROUP R-2, LIVING QUARTERS (SLEEPING AND RESIDENTIAL USE).

C. CONDITIONED VS. NON-CONDITIONED AREAS PER OCCUPANCY:
- R-2 LIVING QUARTERS, CONDITIONED.
- S-2 APPARATUS BAY, NON CONDITIONED, OPEN CARPORT STYLE APPARATUS BAY.

D. NUMBER OF STORIES:
- 1 STORY, TOTAL BUILDING AREA = 7,880 S.F. MIXED OCCUPANCY.

E. MIXED OCCUPANCY METHOD:
- NON SEPERATED MIXED OCCUPANCY - R-2 - GOVERNS AREA AND CONSTRUCTION TYPE.

F. FIRE PROTECTION:
- AUTOMATIC FIRE SPRINKLER SYSTEM PER NFPA 13.

CALIFORNIA BUILDING CODES

CBC APPLICABLE CODES: 2025 CBC, 2025 CGBSC, 2025 CFC, 2025 NFPA, 2025 CAC, 2025 CCR, 2025 CAL GREEN, 2025 CEC, 2025 CMC, 2025 CPC, 2025 CENC.

CITY OF BUENAVENTURA MUNICIPAL CODES

APPLICABLE CODES: 2020 SMBC

CONSULTANT DIRECTORY

STRUCTURAL:	KPFF CONSULTING ENGINEERS 700 FLOWER STREET, #2100 LOS ANGELES, CA 90017 (213) 418-0201, kathrin.klemm@kpff.com	ELECTRICAL:	CANNON 16842 VON KARMAN AVENUE, #150 IRVINE, CA 92606 (919) 753-8111, DineshP@CannonCorp.us
PLUMBING AND MECHANICAL	3C ENGINEERING, INC. 1500 PALM STREET SAN LUIS OBISPO, CA 93401 (805) 540-3363, dstanger@3ceng.com	FIRE ALERTING AND DISPATCH	HONEYWELL FIRE SYSTEMS william.butler2@honeywell.com
FIRE ALARM:	COLLINGS AND ASSOCIATES LLC 260 MAPLE COURT, #241 VENTURA, CA 93003 (805) 658-0003, ayakel@collingsandassociates.com	BUILDING:	CLEARSPAN STRUCTURES 1395 JOHN FITCH BLAVD. SOUTH WINDSOR, CT 06074 (866) 643-1010, lmelssen@farmtek.com
		BUILDING:	GLOBAL MODULAR, INC. 450 COMMERCE AVENUE ATWATER, CA 95301 (209) 676-8029, dperez@gdvi.net
LANDSCAPING:	DESIGN STUDIO LANDSCAPE DEVELOPMENT 88 N. OAK STREET, SUITE 1A VENTURA, CA 93001 (805) 225-3836, rleo@landscapedevelopment.com		
ENVIRONMENTAL:	RINCON CONSULTANTS, INC. 180 N. ASHWOOD AVENUE VENTURA, CA 93003 (805) 644-4455, emutkowska@rinconconsultants.com		
GEOTECHNICAL:	EARTH SYSTEMS 5917 OLIVAS PARK DRIVE, SUITE F VENTURA, CA 93003 (805) 642-6727, tmazzei@earthsystems.com		

PARKING ANALYSIS

LIVING QUARTERS FLOOR AREA=2,880 SQ.FT.

PARKING SPACES REQUIRED: ONE SPACE FOR EVERY 300 SQ.FT. OF GROSS FLOOR AREA.

$\frac{2,880\ SQ.FT.}{300\ SQ.FT.}$ = 9.6 PARKING SPACES REQUIRED.

PROPOSED NUMBER OF PARKING SPACES FOR INTERIM FIRE STATION=10 PARKING SPACES

THE APPARATUS BAY AND GYM STRUCTURES WILL BE USED AS FIRE ENGINE CARPORTS AND STAFF EXERCISE EQUIPMENT: NO OFF-STREET PARKING REQUIRED.

PLUMBING FIXTURE ANALYSIS

OCCUPANCY GROUP S, STORAGE, CPC 422.1. WHAREHOUSE/STORAGE
LOAD FACTOR: 300 GROSS SF/PERSON, PER CBC TABLE 1004.5
APPARATUS BAY AREA: 5,900 SF

OCCUPANT LOAD = $\frac{5,900\ SF}{300\ SF/PERSON}$ = 20 OCCUPANTS

FIXTURE TYPE		REQUIRED QUANTITY
WATER CLOSETS (WC)	1 PER 100 EMPLOYEES PER SEX	2 (1M, 1F)
	REQUIRED = $\frac{10}{100}$ = 0.1 $\xrightarrow{\text{ROUND UP}}$ 1.0	
LAVATORIES	1 PER 100 OCCUPANTS PER SEX	2 (1M, 1F)
	REQUIRED = $\frac{10}{100}$ = 0.1 $\xrightarrow{\text{ROUND UP}}$ 1.0	
Drinking Fountain	1 Per 400 Occupants Per Sex	1
	Required = $\frac{20}{100}$ = 0.5 $\xrightarrow{\text{Round Up}}$ 1.0	
Service Sink	1 Per Building	1

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GENERAL NOTES

1. ALL WORK SHOWN HEREON SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," 2018 EDITION, AND ITS SUPPLEMENTS, THE MODIFICATIONS TO THOSE STANDARD SPECIFICATIONS CONTAINED IN THE CONTRACT SPECIFICATIONS AND THE CITY OF SAN BUENAVENTURA STANDARD CONSTRUCTION DETAILS.
2. IN ACCORDANCE WITH PROVISIONS OF CALIFORNIA PUBLIC CONTRACT CODE SECTION 3300, THE OWNER HAS DETERMINED THAT THE CONTRACTOR SHALL POSSESS A VALID "A" OR "B" LICENSE AT THE TIME THE CONTRACT BIDS ARE OPENED. FAILURE TO POSSESS THE SPECIFIED LICENSE SHALL RENDER THE BID AS NON-RESPONSIVE AND SHALL ACT AS A BAR TO AWARD OF CONTRACT TO ANY BIDDER NOT POSSESSING SAID LICENSE AT THE TIME OF BID OPENING. THE CONTRACTOR SHALL PRESENT SATISFACTORY EVIDENCE THAT THEY AND THEIR SUBCONTRACTOR(S) HAVE PAID THE BUSINESS LICENSE FEE(S) OF THE CITY OF SAN BUENAVENTURA BEFORE ENTERING INTO A CONTRACT WITH THE CITY.
3. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING 72 HOURS IN ADVANCE OF CONSTRUCTION:
   UNDERGROUND SERVICE ALERT 811
   CITY OF VENTURA ENGINEERING DIVISION (805) 658-4778
4. UTILITIES AND FACILITIES ABOVE AND BELOW THE GROUND ARE LOCATED FROM THE BEST AVAILABLE RECORD INFORMATION. THE CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR FACILITIES SHOWN ON THE PLANS FROM HARM. ATTENTION IS DIRECTED TO POSSIBLE EXISTENCE OF UNDERGROUND UTILITIES OR FACILITIES NOT KNOWN TO THE CITY OR IN A LOCATION DIFFERENT FROM THAT WHICH IS SHOWN ON THE PLANS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES AND FACILITIES PRIOR TO DOING WORK IN ORDER TO AVOID DAMAGE OF SUCH UTILITY OR FACILITY OR INTERFERE WITH THEIR SERVICE. WHERE UNDERGROUND MAIN DISTRIBUTION CONDUITS SUCH AS WATER, GAS, SEWER, ELECTRIC POWER, TELEPHONE , OR CABLE TELEVISION ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL ASSUME THAT EVERY PROPERTY PARCEL WILL BE SERVED BY A SERVICE CONNECTION FOR EACH TYPE OF UTILITY, OR AS DIRECTED BY THE ENGINEER.
5. SURVEY MONUMENTS, PROPERTY MARKERS, AND TIE POINTS SHALL BE PRESERVED AND REFERENCED BEFORE CONSTRUCTION AND REPLACED AFTER CONSTRUCTION PURSUANT TO SECTION 8771 F THE BUSINESS AND PROFESSIONS CODE.
6. BENCHMARK DISKS SHALL NOT BE DESTROYED, OR DISTURBED UNTIL A REPLACEMENT WITH A SECOND ORDER, CLASS ONE, GEODETIC ELEVATION HAS BEEN ACCEPTED BY THE CITY ENGINEER.
7. ALL WORK PERFORMED IN ACCORDANCE WITH CONDITIONS OF VENTURA COUNTY AIR POLLUTION CONTROL DISTRICT PERMIT AND CITY OF VENTURA ADMINISTRATIVE COASTAL DEVELOPMENT PERMIT CONDITIONS OF APPROVAL FOR CDP-06-23-0037.
8. HOURS OF WORK SHALL BE LIMITED TO 7:00 AM TO 5:00 PM MONDAY THROUGH FRIDAY EXCEPTING LEGAL OR CITY OBSERVED HOLIDAYS.
9. NOT LESS THAN TWO WEEKS PRIOR TO COMMENCEMENT OF DEMOLITION, ALL RESIDENCES WITHIN 500 FEET OF THE PROJECT SITE SHALL BE PROVIDED NOTIFICATION OF THE ACTIVITIES, CONSTRUCTION SCHEDULE AND EQUIPMENT TO BE USED.
10. THE APPARATUS BAY WILL BE DESIGNED WITH A FIRE SPRINKLER SYSTEM, AS APPROVED BY THE CITY OF VENTURA FIRE DEPARTMENT.
11. THIS SITE IS URBAN UNZONED FIRE HAZARD.

UNDERGROUND SERVICE ALERT
CALLTHREE WORKING DAYS
BEFORE YOU DIG:

811
Know what's below. Call before you dig.

GRADING PLANS PER SEPARATE PERMIT
FIRE SPRINKLER PLANS PER SEPARATE PERMIT
FIRE ALERT SYSTEM PLANS PER SEPARATE PERMIT
DEFERRED SUBMITTALS GLOBAL MODULAR PLANS

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7
COVER SHEET

DRN. BY: DAG	DES. BY: GDK	CK'D. BY: GDK

REVIEWED BY: 6 May 2026 DATE

Barbara McCormack
FLEET AND FACILITIES MANAGER

REGISTERED PROFESSIONAL ENGINEER DANIELA HASA NO. 92225 CIVIL STATE OF CALIFORNIA

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

April 27, 2026 | SHEET 1 OF 151 | DWG. NO. 2025-D-010

CODE ANALYSIS

GENERAL INFORMATION AND OCCUPANCY

OCCUPANCY

304.1	CIVIC ADMINISTRATION	GROUP B
310.1	DORMITORY	GROUP R-2
311.3	LOW-HAZARD STORAGE	GROUP S-2

AUTOMATIC FIRE SPRINKLERS

903.2	AUTOMATIC FIRE SPRINKLERS	PROVIDED

CONSTRUCTION TYPE

T-601	CONSTRUCTION TYPE	TYPE V-B

ALLOWABLE HEIGHT & AREA

508.3	NON-SEPARATED OCCUPANCIES, EXCEPTION 2	1-HR SEPARATION BETWEEN R-2 AND OTHER OCCUPANCIES
T-504.3	ALLOWABLE BUILDING HEIGHT (R-2, S, WITH AREA INCREASE)	40 FEET
T-504.4	ALLOWABLE NUMBER OF STORIES (R-2, S)	2 STORIES
T-506.2	ALLOWABLE BUILDING AREA WITH SPRINKLERS (R-2, S)	21,000 SF
504.2	FIRE SPRINKLER HEIGHT INCREASE	N/A
506.3	FRONTAGE INCREASE	N/A
506.3	AREA INCREASE	N/A

ACTUAL AREA - STATION

01-GROUND FLOOR		
S-2	5,900 SF	
B		
R-2	2,880 SF	
	8,780 SF	

CODE ANALYSIS TYPE IIB SPRINKELRED - APPARATUS BAY

CONSTRUCTION TYPE: VB - SPRINKLERED IN ACCORDANCE WITH CBC §903.3.1.1 - LIVING QUARTERS MODULAR

OCCUPANCY GROUP: B, R-2, AND S-2 - NON-SEPARATED OCCUPANCY

PER CBC §508.3.2 MOST RESTRICTIVE OCCUPANCY WILL GOVERN THEREFORE OCCUPANCY GROUP R-2 WILL BE USED.

PER EXCEPTION 2: PROVIDE SEPARATION BETWEEN R-2 OCCUPANCY AND OTHER OCCUPANCIES CONTIGUOUS TO THEM IN ACCORDANCE WITH THE REQUIREMENTS OF CBC §420.

BUILDING HEIGHT	20'-0"	
ALLOWABLE HEIGHT:	40'-0" PER TABLE 504.3	O.K
NO. OF STORIES	1	
ALLOWABLE NO. OF STORIES PER TABLE 504.4 (WITH AREA INCREASE)	2	O.K.
FIRST FLOOR AREA:	8,780 SF	
ALLOWABLE AREA:	21,000 S.F. PER TABLE 506.2	
	21,000 S.F. > 13,647 S.F.	O.K.

PLUMBING CALCULATIONS

OCCUPANT LOAD PER CPC SECTION 422, TABLE-A:

S-2	= (1 OCC / 5,000 SF)	X 5,900 SF = 2 OCC
B	= (1 OCC / 200 SF)	X 2,880 SF = 15 OCC
R-2	= (1 OCC / 200 SF)	

PER EXCEPTIONS UNDER CPC SECTION 422.2, SEPERATE FACILITIES FOR EACH SEX ARE NOT REQUIRED IN:
A) RESIDENTIAL INSTALLATIONS
B) IN OCCUPANCIES WITH A TOTAL OCCUPANT LOAD OF 10 OR LESS.
C) IN BUSINESS OR MERCANTILE OCCUPANCIES WITH A TOTAL OCCUPANT LOAD OF 50 OR LESS.

PER CPC SECTION 415.2, WHERE FOOD IS CONSUMED INDOORS, WATER STATIONS SHALL BE PERMITTED TO BE SUBSTITUTED FOR DRINKING FOUNTAINS.

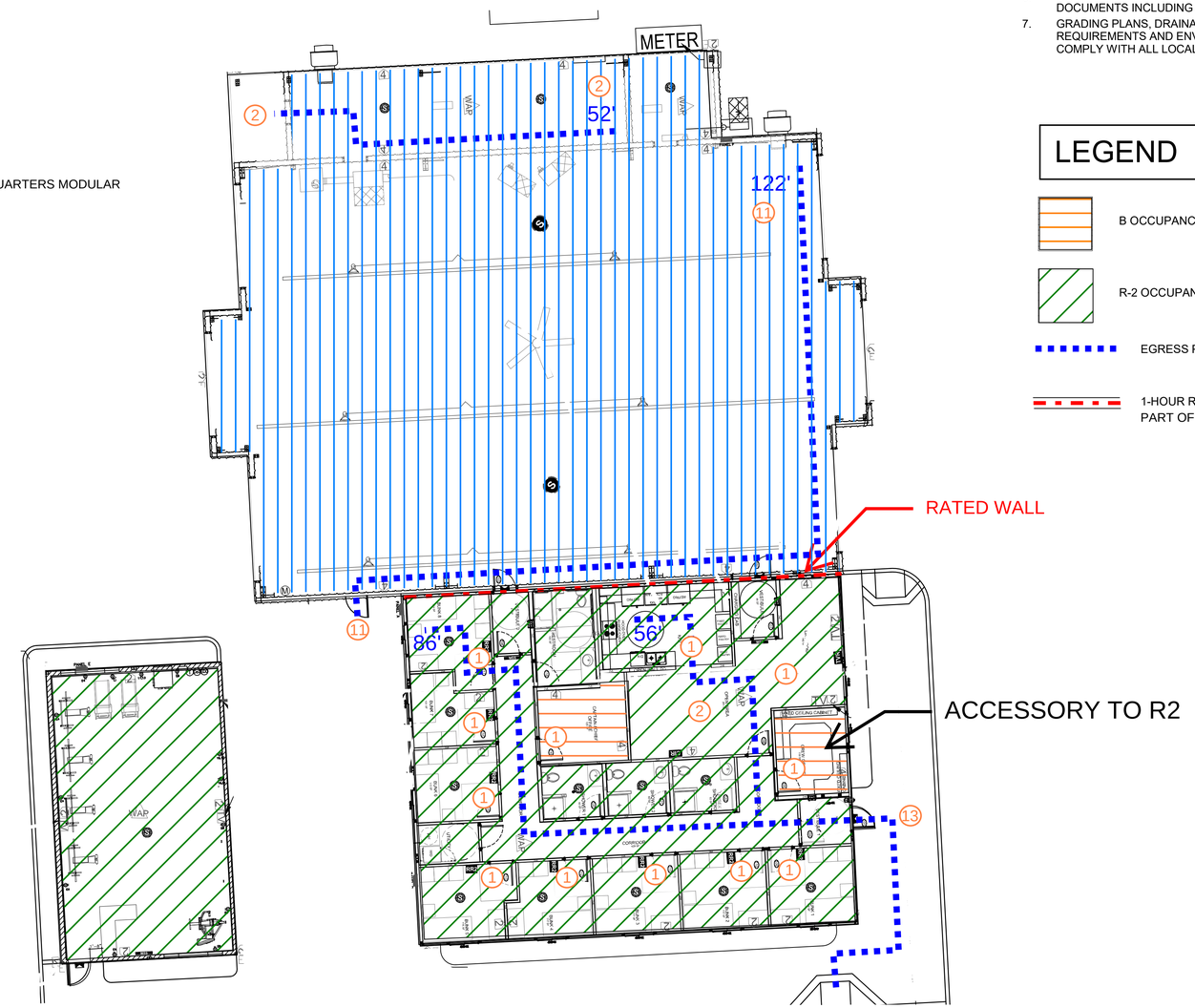
REQUIRED FIXTURES PER CPC TABLE 422.1 AND SECTION 422.2:

S-2:	TOILETS:	1 SINGLE OCCUPANCY
	SINKS:	1 SINGLE OCCUPANCY
B:	TOILETS:	*PART OF R-2 TOTAL*
	SINKS:	
R-2:	TOILETS:	2 + 1 URINAL SINGLE OCCUPANCY
	SINKS:	2 SINGLE OCCUPANCY
	SHOWERS:	2

PROVIDED:

S-2:	TOILETS:	
	SINKS:	*PART OF R-2 TOTAL*
B:	TOILETS:	
	SINKS:	
R-2:	TOILETS:	4
	SINKS:	4 SINGLE OCCUPANCY
	SHOWERS:	4

CODE PLAN



GENERAL NOTES

1. APPLICABLE CODES AND STANDARDS:
1.1. 2022 CALIFORNIA BUILDING CODE AND ITS APPENDICES AND STANDARDS.
1.2. 2022 CALIFORNIA PLUMBING CODE AND ITS APPENDICES AND STANDARDS.
1.3. 2022 CALIFORNIA MECHANICAL CODE AND ITS APPENDICES AND STANDARDS.
1.4. 2022 CALIFORNIA FIRE CODE AND ITS APPENDICES AND STANDARDS.
1.5. 2022 CALIFORNIA ELECTRICAL CODE AND ITS APPENDICES AND STANDARDS.
1.6. 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.
1.7 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE AND ITS APPENDICIES AND STANDARDS.
2. ALL WORK DESCRIBED IN THE DRAWINGS SHALL BE VERIFIED FOR DIMENSION, GRADE, EXTENT AND COMPATIBILITY WITH EXISTING SITE CONDITIONS. ANY DISCREPANCIES AND UNEXPECTED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY. DO NOT PROCEED WITH THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO SO, HE/SHE SHALL BE PRECEDING AT HIS/HER OWN RISK.
4. DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE OR PROPORTION. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
5. IN THE EVENT OF THE UNFORESEEN ENCOUNTER OF MATERIALS SUSPECTED TO BE OF AN ARCHAEOLOGICAL OR PALEONTOLOGICAL NATURE, ALL GRADING AND EXCAVATION SHALL CEASE IN THE IMMEDIATE AREA AND THE THE CONTRACTOR SHALL NOTIFY THE OWNER. THE FIND SHALL BE LEFT UNTOUCHED UNTIL AN EVALUATION BY A QUALIFIED ARCHAEOLOGIST OR PALEONTOLOGIST IS MADE.
6. CONTRACTOR IS TO BE RESPONSIBLE FOR BEING FAMILIAR WITH THESE DOCUMENTS INCLUDING ALL CONTRACT REQUIREMENTS.
7. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

LEGEND

- B OCCUPANCY
- S-2 OCCUPANCY
- R-2 OCCUPANCY
- EGRESS PATH OF TRAVEL
- 1-HOUR RATED FIRE PARTITION IN ACCORDANCE WITH CBC 708 PART OF MODULAR BUILDING

URBAN UNZONED FIRE HAZARD

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7
CODE PLAN

DRN. BY: DAG	DES. BY: RTH	CK'D. BY: RTH

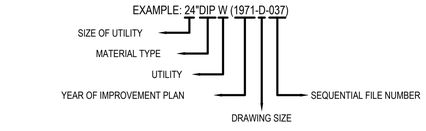
PRINCIPAL ENGINEER — DATE: 5 May 2026
CITY ENGINEER — DATE: 5/7/2026

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
October 8, 2025	SHEET 2 OF 151	DWG. NO. 2025-D-010

ABBREVIATIONS

AB	AGGREGATE BASE	G	GAS	Q	FLOW, CFS
ABAN	ABANDONED	GAL	GALLON		
AC	ASPHALT CONCRETE	GALV	GALVANIZED	RCB	REINFORCED CONCRETE BOX
ACP	ASBESTOS CEMENT PIPE	GIP	GALVANIZED IRON PIPE	RCP	REINFORCED CONCRETE PIPE
ADMIN	ADMINISTRATION	GV	GAS VALVE	RD	ROAD
APN	ASSESSORS PARCEL NUMBER	GY	GUY WIRE	RH	REDHEAD
ARV	AIR RELEASE VALVE			RO	RANCHO
ASB	AGGREGATE SUBBASE	HDPE	HIGH DENSITY POLYETHYLENE	RP	REFERENCE POINT, RADIAL POINT
ASPH	ASPHALT	HGL	HYDRAULIC GRADE LINE	RR	RAILROAD, RESTROOM
AV	AVENUE	HH	HAND HOLE	RS	RECORD OF SURVEY
		H/W	HEADWALL	R/W	RIGHT OF WAY
BIP	BLACK IRON PIPE			RW	RECYCLED/RECLAIMED WATER
BC	BEGINNING OF CURVE	ICL	IRRIGATION CONTROL LID		
BCR	BEGINNING OF CURB RETURN	ID	INSIDE DIAMETER	S	SOUTH
BL, BLVD	BOULEVARD	INV	INVERT	SBMD	STANDARD BENCHMARK DISC
BLDG	BUILDING	IP	IMPROVEMENT DISTRICT, IRON PIN	SCE	SOUTHERN CALIFORNIA EDISON
BM	BENCHMARK	IRR	IRRIGATION	SCO	SEWER CLEANOUT
BO	BLOW OFF			SD	STORM DRAIN, SEWER DISTRICT
BP	BEGIN PIPELINE, BOLLARD / GUARD POST	L	LENGTH (OF ARC)	SDMH	STORM DRAIN MANHOLE
BPR	BEGIN PAVEMENT RETURN	LANDSC	LANDSCAPE	SDR	SURFACE DRAIN
BTM	BRASS TOP MONUMENT	LF	LINEAR FOOT, LINEAR FEET	SL	SURVEY LINE, STREET LIGHT
BVC	BEGINNING OF VERTICAL CURVE	LD	LAND DIVISION	SLS	STREET LIGHT STANDARDS
		LN	LANE	SMH	SANITARY SEWER MANHOLE
C, CTR	CENTER			SNM	SELECT NATURAL MATERIAL
CALC	CALCULATED	MAG CHK	MAGNETIC NAIL SURVEY MARKER	SP	STEEL PIPE
CALTRANS	CALIFORNIA TRANSPORTATION	MAINT	MAINTENANCE	SPRR	SOUTHERN PACIFIC RAILROAD
CATV	CABLE TELEVISION	MAX	MAXIMUM	SS	SANITARY SEWER, SLOPE STAKE
CB	CATCH BASIN	MC	MIDDLE OF CURVE	SS1	STREET SIGN 1
CF	CURBFACE	MCSD	MONTALVO COMMUNITY SERVICES DISTRICT	SS2	STREET SIGN 2
CHX	CHISELED "X"	MH	MANHOLE	SSM	STANDARD SURVEY MONUMENT
CIP	CAST IRON PIPE	MHD	STORM DRAIN MANHOLE	SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
CL	CENTERLINE	MIN	MINIMUM	ST	STREET
CML&C	CEMENT LINED AND COATED	MLLW	MEAN LOW LOW WATER	STA	STATION
CMP	CORRUGATED METAL PIPE	MON	MONUMENT	STD	STANDARD
CMU	CONCRETE MASONRY UNIT	MR	MISCELLANEOUS RECORDS	ST HWY	STATE HIGHWAY
CO	CLEAN OUT	MW	WATER MONITORING WELL	STL	STEEL
CONC	CONCRETE			ST LT	STREET LIGHT
CR	COUNTY RECORDER, CURB RETURN	N	NORTH, NEW		
CP	CONTROL POINT	NAT GRD	NATURAL GROUND	TB	TOP OF BERM, TOP OF BANK
CWS	CROSS WALK SIGNAL	NIC	NOT IN CONTRACT	TBM	TEMPORARY BENCHMARK
		NO	NUMBER	TC	TOP OF CURB
DI	DRAIN INLET			TELE	TELEPHONE
DIA	DIAMETER	OD	OUTSIDE DIAMETER	TMH	TELEPHONE MANHOLE
DIP	DUCTILE IRON PIPE	OG	ORIGINAL GROUND	TOPO	TOPOGRAPHY
DMH	DRAIN MANHOLE	OH	ORCHARD HEAD	TLP	TRAFFIC LOOP
DR	DRIVE	OR	OFFICIAL RECORD	TP	TURNING POINT, TELEPHONE POLE
		OVHD	OVERHEAD	TPOB	TRUE POINT OF BEGINNING
E	EAST, EXISTING			TR	TRAFFIC, TRACT
EC	END OF CURVE	PAV	PAVING	TSL	TRAFFIC SIGNAL LIGHT
ECR	END OF CURB RETURN	PC	POINT OF CURVATURE	TSS	TRACK SIGNAL STANDARD
EF	EACH FACE	PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE	TSSL	TRACK SIGNAL STREET LIGHT
EFF	EFFLUENT			TV	TELEVISION
EL, ELEV	ELEVATION	PD	PLANNED DEVELOPMENT	TW	TOP OF WALL
EL, ELEC	ELECTRIC	PI, P.I.	POINT OF INTERSECTION	TYP	TYPICAL
EMH	ELECTRIC MANHOLE	PMT	PARKING METER		
EP	EDGE OF PAVEMENT, END PIPELINE	PL	PROPERTY LINE	UG	UNDERGROUND
EPR	END OF PAVEMENT RETURN	PMB	PROCESSED MISCELLANEOUS BASE	UMH	UTILITY MANHOLE, UNMARKED MANHOLE
ES	EDGE OF SHOULDER	PNT	POINT		
ESMT	EASEMENT	POB	POINT OF BEGINNING	V	VOLT
ET AL	AND OTHERS	POC	POINT ON CURVE, POINT OF COMMENCEMENT	VB	VALVE BOX
EVC	END OF VERTICAL CURVE	POST	POINT OF SEMI-TANGENT	VC	VERTICAL CURVE
EW	EACH WAY	POT	POINT ON TANGENT	VCP	VITRIFIED CLAY PIPE
EXIST, EX	EXISTING	PP	POWER POLE	VNT	VENT
		PPSL	POWER POLE STREET LIGHT	VPI	VERTICAL POINT OF INTERSECTION
FB	FIELD BOOK	PRC	POINT OF REVERSE CURVE		
FG	FINISHED GRADE	PROP	PROPOSED	W	WEST, WATER
FH	FIRE HYDRANT	PRV	PRESSURE REDUCING VALVE	WFHD	WHARFHEAD FIRE HYDRANT
FL	FLOWLINE	PT	POINT OF TANGENCY	W/W	WINGWALL
FS	FINISHED SURFACE	PUE	PUBLIC UTILITY EASEMENT	WV	WATER VALVE
FT	FOOT, FEET	PV	PETROLEUM OIL VALVE		
FWY	FREEWAY	PVC	POLY VINYL CHLORIDE	X-SEC	CROSS SECTION
		PVMT	PAVEMENT		

CITY UTILITY CALLOUT LEGEND



CALIFORNIA ENVIROMENTAL QUALITY ACT CONDITIONS OF APPROVAL

SERVICE LINES

SANITARY SEWER

STORM DRAIN — SD

OVERHEAD SERVICE LINES

EXISTING WATERLINE — 12" W

BURIED NATURAL GAS LINES — G

BURIED ELECTRICAL LINES — E

BURIED TELECOMMUNICATION — COM

BURIED TELEVISION/CABLE — TV

BURIED PETROLEUM LINES — OIL

PROPOSED SERVICE

SURVEY MAP SYMBOLS

= SURVEY MONUMENTS
= SET MARKERS
= BENCHMARKS/DATUM
= CONTROL POINTS

TSSL
FH VNT PP
PMT TSL CWS
BP SCO GY
DMH EMH SMH TMH UMH (D E S T U)
GV (G) ICL (IC) MW (△) WV (W) PV (P)

PPSL
SL
SS1
SS2
TLP

BOX VAULTS
CABINETS
PEDESTALS

FENCE TYPES

CHAIN LINK FENCE
WOOD FENCE
METAL FENCE
WIRE FENCE
RAIL FENCE
GUARDRAIL BARRIER
STONE/RUBBLE WALL
VEGETATION, BRUSH, HEDGE

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7
ABBREVIATIONS AND SYMBOL LEGEND

DRN. BY: DAG	DES. BY: GDK	CK'D. BY: GDK

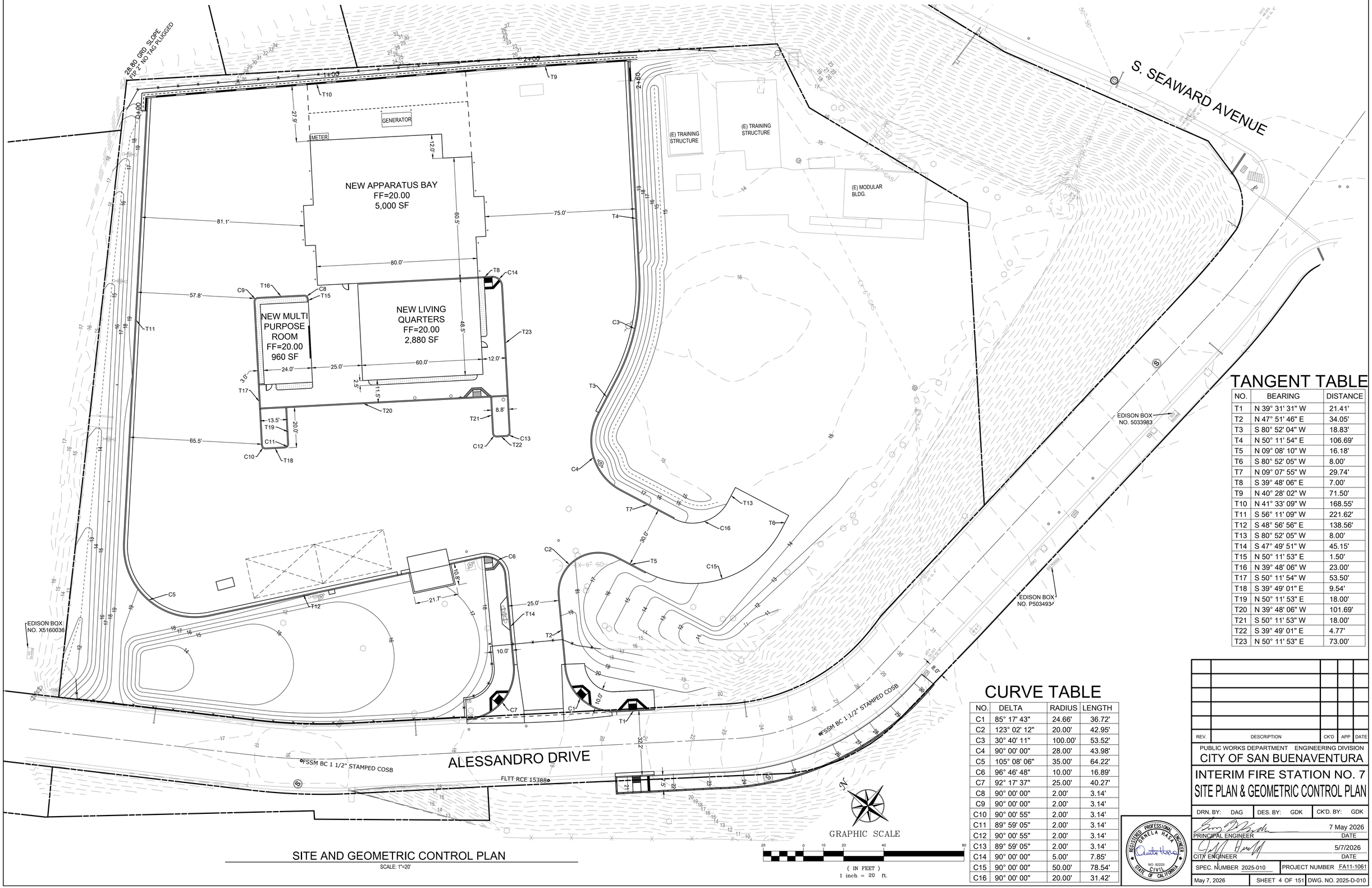
REGISTERED PROFESSIONAL ENGINEER — DANIELA RASA — NO. 92228 — CIVIL — STATE OF CALIFORNIA

5 May 2026
PRINCIPAL ENGINEER — DATE

5/7/2026
CITY ENGINEER — DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

April 27, 2026 | SHEET 3 OF 151 | DWG. NO. 2025-D-010



TANGENT TABLE

NO.	BEARING	DISTANCE
T1	N 39° 31' 31" W	21.41'
T2	N 47° 51' 46" E	34.05'
T3	S 80° 52' 04" W	18.83'
T4	N 50° 11' 54" E	106.69'
T5	N 09° 08' 10" W	16.18'
T6	S 80° 52' 05" W	8.00'
T7	N 09° 07' 55" W	29.74'
T8	S 39° 48' 06" E	7.00'
T9	N 40° 28' 02" W	71.50'
T10	N 41° 33' 09" W	168.55'
T11	S 56° 11' 09" W	221.62'
T12	S 48° 56' 56" E	138.56'
T13	S 80° 52' 05" W	8.00'
T14	S 47° 49' 51" W	45.15'
T15	N 50° 11' 53" E	1.50'
T16	N 39° 48' 06" W	23.00'
T17	S 50° 11' 54" W	53.50'
T18	S 39° 49' 01" E	9.54'
T19	N 50° 11' 53" E	18.00'
T20	N 39° 48' 06" W	101.69'
T21	S 50° 11' 53" W	18.00'
T22	S 39° 49' 01" E	4.77'
T23	N 50° 11' 53" E	73.00'

CURVE TABLE

NO.	DELTA	RADIUS	LENGTH
C1	85° 17' 43"	24.66'	36.72'
C2	123° 02' 12"	20.00'	42.95'
C3	30° 40' 11"	100.00'	53.52'
C4	90° 00' 00"	28.00'	43.98'
C5	105° 08' 06"	35.00'	64.22'
C6	96° 46' 48"	10.00'	16.89'
C7	92° 17' 37"	25.00'	40.27'
C8	90° 00' 00"	2.00'	3.14'
C9	90° 00' 00"	2.00'	3.14'
C10	90° 00' 55"	2.00'	3.14'
C11	89° 59' 05"	2.00'	3.14'
C12	90° 00' 55"	2.00'	3.14'
C13	89° 59' 05"	2.00'	3.14'
C14	90° 00' 00"	5.00'	7.85'
C15	90° 00' 00"	50.00'	78.54'
C16	90° 00' 00"	20.00'	31.42'

SITE AND GEOMETRIC CONTROL PLAN

SCALE: 1"=20'

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

SITE PLAN & GEOMETRIC CONTROL PLAN

DRN. BY: DAG	DES. BY: GDK	CK'D. BY: GDK

PRINCIPAL ENGINEER — 7 May 2026 — DATE

CITY ENGINEER — 5/7/2026 — DATE

REGISTERED PROFESSIONAL ENGINEER DANIELA RASA NO. 92228 CIVIL STATE OF CALIFORNIA

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

May 7, 2026 | SHEET 4 OF 151 | DWG. NO. 2025-D-010

CITY OF SAN BUENAVENTURA

PUBLIC WORKS DEPARTMENT - ENGINEERING DIVISION

INTERIM FIRE STATION NO. 7

GRADING AND IMPROVEMENT PLANS

2269 ALESSANDRO DR (APN 076-0-010-115)

OWNER / APPLICANT

CITY OF BUENAVENTURA
501 POLI STREET
VENTURA, CA 93001
PHONE: 805-658-4791
EMAIL: lliu@cityofventura.ca.gov

LOT AREA

CURRENT LOT AREA: 133,585 SF (3.0 AC)

TOPOGRAPHY DATE

CITY OF BUENAVENTURA, PUBLIC WORKS.

BENCHMARK DATA

BASIS OF BEARINGS: SOUTH 39° 45' 35" EAST ON THE CENTERLINE OF ALESSANDRO DRIVE IN FRONT OF THE SUBJECT PROPERTY DRIVEWAY, WAS USED FOR THIS SURVEY.

COORDINATE AND BEARING BASIS ARE NAD83 CALIFORNIA STATE PLANE, ZONE V, US FOOT, IN ACAD CIVIL 3D CODE CA83-VF, UTILIZING GNSS TOPNETLIVE NETWORK (LEWY) RTN (NAD83_NO_TRANS, GEOID12B) WITH VRS CORRECTIONS.

ALL SURVEY READINGS SHOWN HEREON ARE GRID DISTANCES, WITH ELEVATIONS TRANSLATED TO LOCAL NAVD 88 BENCHMARK DESIGNATION S-1100.

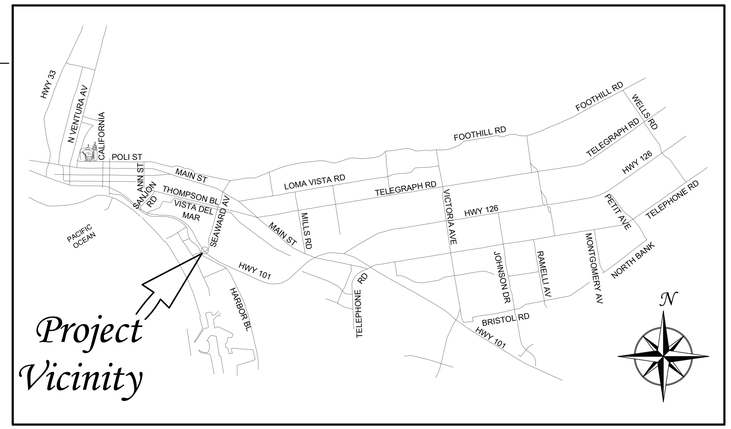
BOUNDARY, EASEMENTS AND RIGHT OF WAY LINES WERE COMPILED FROM RECORDED MAPS AND RELATED SURVEY MONUMENTS FOR THE IMMEDIATE PROJECT SITE. ALL LINES SHOWN HEREON ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT REPRESENT OR DETERMINE A DEFINITIVE SURVEY BOUNDARY RESOLUTION.

BENCHMARK DATUM
NAVD 1988 (VEN CO ADJ PUB 1992)

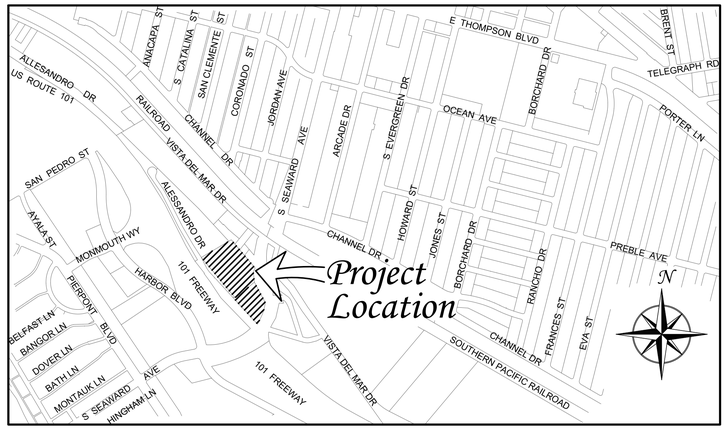
DESIGNATION
S 1100 PID 1968

ELEVATION
80.11'

MONUMENT DESCRIPTION
IN VENTURA, AT THE INTERSECTION OF THE SOUTHERN PACIFIC RAILROAD AND SEAWARD AVENUE, IN THE TOP AND 0.4 FOOT NORTHWEST OF THE SOUTHEAST END OF THE NORTHEAST CONCRETE CURB OF SEAWARD AVENUE OVERPASS, 7.0 FEET NORTHEAST OF THE NORTHEAST RAIL, 0.4 FOOT SOUTHEAST OF THE SOUTHEAST END OF THE NORTHEAST STEEL RAIL, 55.1 FEET SOUTHEAST OF THE CENTER OF THE NORTHBOUND LANES OF SEAWARD AVENUE, AND ABOUT LEVEL WITH THE TRACK.



VICINITY MAP
NO SCALE



LOCATION MAP
NO SCALE

GENERAL NOTES

1. Utilities and facilities above and below the ground are located from the best available record information. the Contractor shall take due precautionary measures to protect the utilities or facilities shown on the plans from harm. Attention is directed to the possible existence of underground utilities or facilities not known to the City or in a location different from that which is shown on the plans. The Contractor shall take steps to ascertain the exact location of all underground utilities and facilities prior to doing work in order to avoid damage of such utility or facility or interfere with their service.
2. Survey monuments, property markers, and tie points shall be preserved, and referenced before construction and replaced after construction pursuant to Section 8771 of the Business and Professions Code.
3. Benchmark disks shall not be destroyed or disturbed until a replacement with a second order, class one, geodetic elevation has been accepted by the City Engineer.
4. All existing facilities shall be protected in place unless otherwise noted. any damage shall be repaired in-kind and at the contractor's expense and to the City's satisfaction.
5. No work shall be done in the SCRRA / METROLINK Railroad right-of-way prior to obtaining written permission from the Railroad and securing all necessary permits and approvals.

GRADING NOTES

1. All grading shall be in accordance with the City Ordinance No. 2017-009 and the latest revision thereto. Rough grading certification by the applicant's Civil Engineer, Soils Engineer and Engineering Geologist (where applicable) shall be submitted to the City Engineer for review and approval prior to authorizing issuance of building permits.
2. All work shall be done in accordance with the 2022 California Building Code as required by the San Buenaventura Municipal Code Chapter 12.115.
3. All work shall be done in accordance with the "GREENBOOK" Standard Specifications for Public Works Construction (SSPWC), 2021 Edition and the latest revisions thereto; and the City Standard Construction Details and the latest revisions thereto.
4. Recommendations and conclusions of _____ Soils Report No. 24-12-45 (APRIL 16, 2024), by EARTH SYSTEMS of VENTURA, CA (805) 642-6727 Letter No. 24-03-015, dated DEC. 16, 20 24, shall be thoroughly complied with. Both the mentioned report and letter are hereby appended and made a part of this grading plan.
5. Owner: CITY OF BUENAVENTURA Phone: (805) 677-3908
6. General Contractor (If available): _____ Phone: _____
7. Grading Contractor (A or C-12 License): _____ Phone: _____
8. Approximate date of start of grading: _____
   Approximate date of completion: _____
9. Cut: _____ CY Export: _____ CY Destination: _____
   Fill: 26,930 CY Import: _____ CY Source: _____
10. Water shall be available on the site at all times during grading operations to properly maintain dust control. Cleanup and Dust Control shall comply with Section 7-8.1 of the SSPWC.
11. Utilities and facilities above and below the ground are located from the best available record information. The Contractor shall take due precautionary measures to protect the utilities or facilities shown on the plans from harm. Attention is directed to possible existence of underground utilities or facilities not known to the City or in a location different from that, which is shown on the plans. The Contractor shall take steps to ascertain the exact location of all underground utilities and facilities prior to doing work in order to avoid damage of such utility or facility or to interfere with their service. Call Dig Alert, Toll Free at 811, two full working days in advance. California Government Code §4216
12. A separate plan check and permit must be obtained from the Building and Safety, for the construction of any and all retaining walls and PRIVATE sewer and water mains including service connections. The approvals of this plan by the City Engineer are not inclusive of the approval for the construction of any retaining walls and PRIVATE sewer and water mains including services connections.
13.
14. A City Encroachment Permit is required for any work within the public right-of-way.

    A Ventura County Watershed Protection District Permit is required for any work within a channel under their jurisdiction <if applicable>.
6.

   construction pursuant to Section 8771 of the State Business and Professions Code.
18. In order to mitigate the impacts on cultural resources or landscaping, if cultural material suggestive of prehistoric or historic origin is encountered, work in the vicinity of the find shall be stopped, and the

    until the find is evaluated and it is determined whether the material is archaeologically significant and
19. No cross lot drainage will be permitted without satisfactory storm water acceptance deed. All
20. Work hours shall be limited to Monday through Friday from 7:00 a.m. to 5:00 p.m. No work shall take place on Sundays or any legal or City observed holidays. The definition of work shall include running or idling equipment. Saturday work requires prior concurrence by the City Engineer. The planning commission and city council shall retain the right to impose more restrictive hours of construction upon any projects involving construction activity by adding appropriate conditions to the city's approval of subdivisions, planned development permits, conditional use permits, variances and other projects. SBMC 10.650.150.
21. Reconstruct any concrete curb, gutter, sidewalk and/or driveways per City standards damaged or defaced during construction. A City Encroachment Permit is required.
22. All grading excavations must be observed and approved by the project geotechnical engineering consultant prior to placement of any new engineered, compacted fill materials.
23. All foundation excavations must be observed and approved by the project geotechnical engineering consultant prior to placement of any reinforcing steel and/or concrete.

STORMWATER POLLUTION PREVENTION NOTES

24. The project shall comply with the requirements of the project Storm Water Pollution Control Plan or Storm Water Pollution Prevention Plan. Plan shall be onsite at all times.
25. Grading shall be undertaken in accordance with conditions and requirements of the Ventura Countywide Storm Water Quality Management Program (VCSQMP), National Pollutant Discharge Elimination System (NPDES) Permit No. CAS004002, and any other NPDES permit issued by the State of California Regional Water Quality Control Board. Incorporate Best Management Practices (BMPs) designed in accordance with the Ventura County Technical Guidance Manual for Stormwater Control Measures.
26. No direct storm water discharges from development will be allowed onto City streets or the public storm drain system without treatment by an approved storm water pollution prevention device located on private property. Maintenance of the private storm water pollution prevention devices shall be the sole responsibility of the owner. Discharges or connection without treatment by an approved storm water pollution prevention device shall be considered in violation of the above referenced permit and the City's Stormwater Ordinance.

UTILITIES/SERVICES

WATER:	VENTURA WATER 336 SAN JON RD VENTURA, CA 93001 (805)652-4505	GAS:	SO. CALIFORNIA GAS CO. 9400 OAKDALE AVE CHATSWORTH, CA 91313 (818)701-3319
SEWER:	VENTURA WATER 1400 SPINNAKER DR VENTURA, CA 93001 (805)677-4118	TELEPHONE:	AT&T 1264 CALLENS RD VENTURA, CA 93003 (805)639-0540
STORM DRAIN:	VENTURA PUBLIC WORKS 336 SANJON RD VENTURA, CA 93001 (805)652-4521	CABLE TV:	TIME WARNER 2525 KNOLL DR VENTURA, CA 93003 (805)477-4439
ELECTRIC:	SO. CALIFORNIA EDISON CO. 10060 TELEGRAPH RD VENTURA, CA 93004 (805)654-7476	CABLE TV:	CHARTER CABLE 51 W. MAIN ST VENTURA, CA 93001 (805)648-5705

ABBREVIATIONS

AC	ASPHALTIC CONCRETE
CONST	CONSTRUCTION
CB	CATCH BASIN
DI	STORM DRAIN INLET
DIA	DIAMETER
DW	DOMESTIC WATER
EG	EDGE OF GUTTER
EP	EDGE OF PAVEMENT
EX	EXISTING
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOW LINE
FS	FINISHED SURFACE
FW	FIRE WATER
HDPE	HIGH DENSITY POLYETHYLENE
MH	MANHOLE
OG	ORIGINAL GROUND
P/L	PROPERTY LINE
PP	POWER POLE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT OF WAY
SD	STORM DRAIN
SS	SANITARY SEWER
STD	STANDARD
TBM	TEMPORARY BENCH MARK
TC	TOP OF CURB
TG	TOP OF GRATE
TW	TOP OF WALL
W	WATER

SYMBOLS

- SANITARY SEWER MANHOLE
- TELEPHONE MANHOLE
- FIRE HYDRANT
- WATER VALVE
- WATER METER
- POWER POLE
- SANITARY SEWER LINE
- WATER LINE
- STORM DRAIN
- EX. WATER LINE
- EX. SEWER LINE
- EX. TELECOM LINE
- EX. GAS LINE

UNDERGROUND SERVICE ALERT
CALLTHREE WORKING DAYS
BEFORE YOU DIG:
811
Know what's below.
Call before you dig.

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7
GRADING AND IMPROVEMENTS COVER SHEET

DRN. BY: DAG	DES. BY: GDK	CK'D. BY: GDK

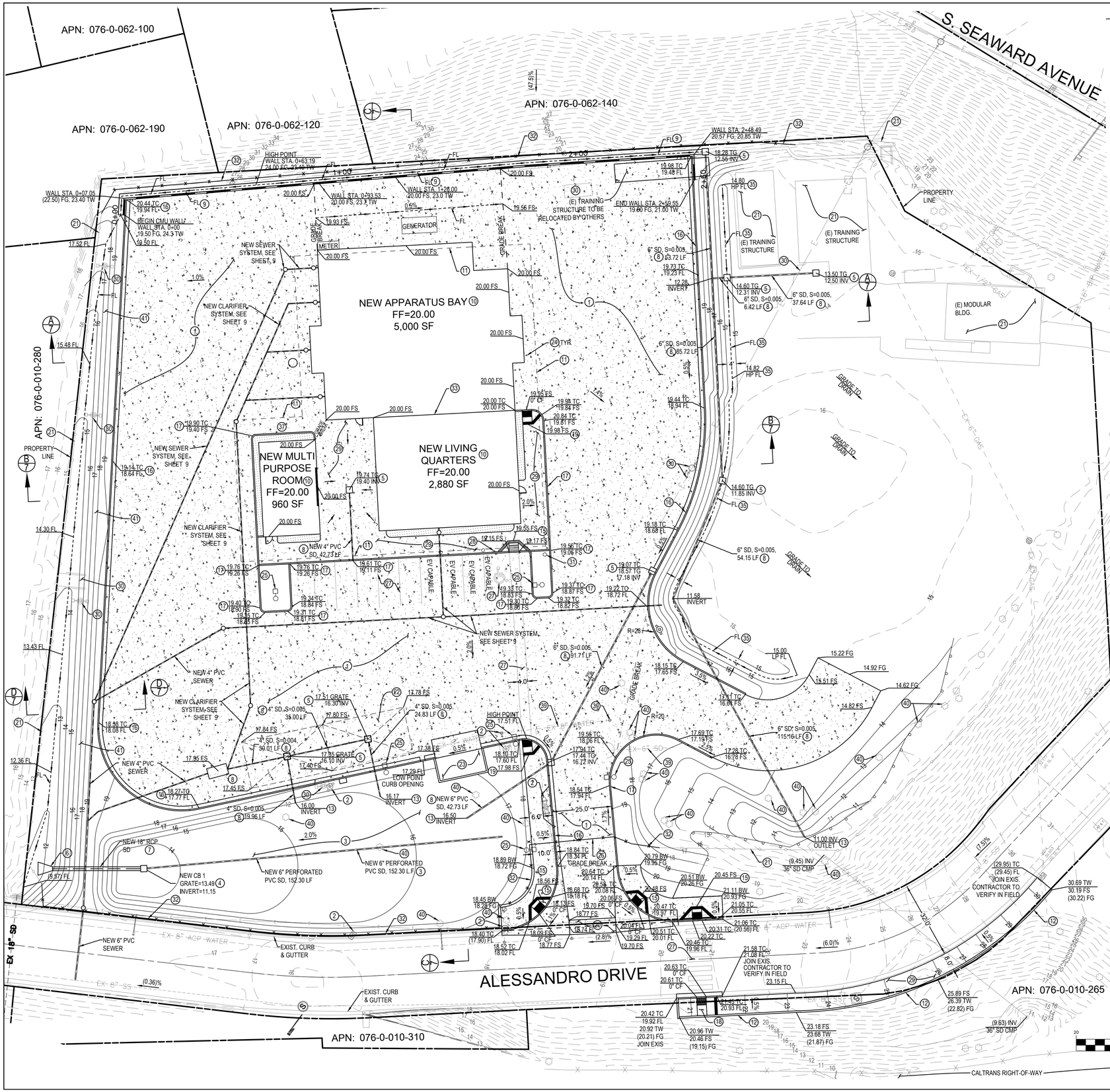
REGISTERED PROFESSIONAL ENGINEER DANIELA HASA NO. 92228 CIVIL STATE OF CALIFORNIA

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 PROJECT NUMBER FA11-1061

April 28, 2026 SHEET 5 OF 151 DWG. NO. 2025-D-010



CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL REMOVE ALL ASPHALT CONCRETE, AND CONCRETE PAVEMENT AND CONSTRUCT A NEW PAVED SURFACE PER THESE PLANS AND THE SPECIFICATIONS, AND PER CROSS SECTION SHOWN ON SHEET 7. THE NEW PAVED SURFACE SHALL BE 8-INCHES OF PCC, OVER 8-INCHES OF AGGREGATE BASE MATERIAL PER DETAIL SHOWN ON SHEET 8, AND IN CONFORMANCE WITH THE GEOTECHNICAL REPORT, ATTACHED IN THE APPENDIX.
2. THE CONTRACTOR SHALL ADJUST ALL VISIBLE/NON-VISIBLE MANHOLES, VALVES, SURVEY MONUMENTS, FIRE HYDRANTS AND SUBSTRUCTURES TO THE PROPOSED FINISH GRADE PER THESE PLANS AND THE SPECIFICATIONS.
3. THE CONTRACTOR SHALL CONSTRUCT A NEW BIO-RETENTION FACILITY PER THESE PLANS AND THE SPECIFICATIONS, AND PER DETAIL SHOWN ON SHEET 12.
4. THE CONTRACTOR SHALL CONSTRUCT A NEW CATCH BASIN WITH PIPE PER THESE PLANS AND THESE SPECIFICATIONS AND PER PLAN SHEETS 8. THE NEW CATCH BASIN SHALL BE THE PRECAST CONCRETE 24"X24", STANDARD CATCH BASIN WITH GALVANIZED STEEL TRAFFIC RATED FRAME AND GRATE, BY PRECON PRODUCTS, OR APPROVED EQUAL.
5. THE CONTRACTOR SHALL CONSTRUCT A NEW CATCH BASIN WITH PIPE PER THESE PLANS AND THESE SPECIFICATIONS AND PER PLAN SHEETS 8 AND 11. THE NEW CATCH BASIN SHALL BE THE PRECAST CONCRETE 12"X12", STANDARD CATCH BASIN WITH GALVANIZED STEEL TRAFFIC RATED FRAME AND GRATE, BY PRECON PRODUCTS, OR APPROVED EQUAL.
6. THE CONTRACTOR SHALL CONSTRUCT A NEW CALTRANS D94A METAL FLARED, TYPE A, END SECTION, WITH PROTECTION RIP RAP, PER PLAN AND PER THE SPECIFICATIONS, AND PER DETAIL SHOWN IN SHEET 8.
7. THE CONTRACTOR SHALL CONSTRUCT THE NEW STORM DRAIN PIPE PER PLAN AND PER THE SPECIFICATIONS, AND PER DETAIL SHOWN ON SHEET 8. THE NEW STORM DRAIN PIPE SHALL BE RCP, CLASS III, AND SHALL CONFORM TO ASTM C990, ASTM C76 AND ASTM C443, OR APPROVED EQUAL.
8. THE CONTRACTOR SHALL CONSTRUCT THE NEW STORM DRAIN PIPE PER PLAN AND PER THE SPECIFICATIONS, AND PER DETAIL SHOWN ON SHEET 8. THE NEW STORM DRAIN PIPE SHALL BE PVC, SDR 35, (PS46) WITH RUBBER RING JOINTS PER ASTM D3034 AND ASTM F679, OR APPROVED EQUAL.
9. THE CONTRACTOR SHALL REMOVE DRY STACK BRICK WALL AND CONSTRUCT THE NEW CONCRETE MASONRY UNIT WALL WITH V DITCH, PER PLAN AND PER THE SPECIFICATIONS AND PER DETAIL SHOWN ON SHEET 8. RETAINING WALL PER SEPARATE PERMIT.
10. THE CONTRACTOR SHALL COORDINATE THE DELIVERY, STAGING, INSTALLATION, UTILITY CONNECTION, FOR THE NEW APPARATUS BAY, LIVING QUARTERS, AND GYM STRUCTURES WITH THE VENDOR, PER THESE PLANS AND THE SPECIFICATIONS. EXCAVATION SHALL CONFORM TO THE RECOMMENDATIONS STATED IN THE GEOTECHNICAL REPORT ATTACHED IN THE APPENDIX OF THE SPECIFICATIONS, AND PER DETAILS SHEET 7.
11. THE CONTRACTOR SHALL PROVIDE SUBGRADE STABILIZATION, PER THESE PLANS AND THE SPECIFICATIONS, AND PER DETAIL SHOWN ON SHEETS 7. SUBGRADE STABILIZATION SHALL CONFORM TO THE RECOMMENDATIONS STATED IN THE GEOTECHNICAL REPORT ATTACHED IN THE APPENDIX OF THE SPECIFICATIONS.
12. THE CONTRACTOR SHALL CONSTRUCT THE NEW CONCRETE MASONRY UNIT WALL, PER PLAN AND PER THE SPECIFICATIONS, AND PER DETAIL SHOWN ON SHEET 8.
13. THE CONTRACTOR SHALL CONSTRUCT PROTECTION RIP RAP, PER PLAN AND PER THE SPECIFICATIONS, AND PER DETAIL SHOWN IN SHEET 8.
14. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY LINES. THE CONTRACTOR SHALL POT HOLE EXISTING UTILITIES SHOWN HEREON OR MARKED BY USA IN THE FIELD TO VERIFY LINE LOCATION AND INVERTS PRIOR TO TRENCHING AND EXCAVATION OPERATIONS.
15. THE CONTRACTOR SHALL CONSTRUCT A CURB RAMP, PER THESE PLANS AND THE SPECIFICATIONS AND PER SSPWC STANDARD PLAN 111-4, CASE A, TYPE 1, OVER 6-INCHES OF PMB. THE CONTRACTOR SHALL CONSTRUCT A 1-FOOT WIDE GROOVE GRADE WARNING STRIP AT THE TOP OF THE PROPOSED CURB RAMP, PER SSPWC STANDARD PLAN 111-4.
16. THE CONTRACTOR SHALL CONSTRUCT CONCRETE CURB AND GUTTER, (TYPE A), PER THESE PLANS AND THE SPECIFICATIONS AND PER CITY OF VENTURA STD. DETAIL 107 AS SHOWN ON SHEET 15.
17. THE CONTRACTOR SHALL CONSTRUCT CONCRETE CURB ONLY PER THESE PLANS AND THE SPECIFICATIONS AND PER CITY OF VENTURA STD. DETAIL 107 AS SHOWN ON SHEET 15.
18. THE CONTRACTOR SHALL CONSTRUCT A CURB RAMP, PER THESE PLANS AND THE SPECIFICATIONS AND PER SSPWC STANDARD PLAN 111-4, CASE B, TYPE 1, OVER 6-INCHES OF PMB. THE CONTRACTOR SHALL CONSTRUCT A 1-FOOT WIDE GROOVE GRADE WARNING STRIP AT THE TOP OF THE PROPOSED CURB RAMP, PER SSPWC STANDARD PLAN 111-4.
19. THE CONTRACTOR SHALL CONSTRUCT A CURB RAMP, PER THESE PLANS AND THE SPECIFICATIONS AND PER SSPWC STANDARD PLAN 111-4, CASE D, TYPE 2, OVER 6-INCHES OF PMB. THE CONTRACTOR SHALL CONSTRUCT A 1-FOOT WIDE GROOVE GRADE WARNING STRIP AT THE TOP OF THE PROPOSED CURB RAMP, PER SSPWC STANDARD PLAN 111-4.
20. THE CONTRACTOR SHALL REMOVE AND RECONSTRUCT CONCRETE CROSS GUTTER, PER THESE PLANS AND THE SPECIFICATIONS AND PER CITY OF VENTURA STD. DETAIL 101 AS SHOWN ON SHEET 15.
21. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PER PLAN AND THE SPECIFICATIONS.
22. ALL SEWER AND WATER LINES SHALL BE INSTALLED AS DEPTHS AS INDICATED ON THE PLANS AND PER CITY OF VENTURA STANDARDS. DEEPEN UNDERGROUND ELECTRICAL AND LOW VOLTAGE CONDUITS ARE REQUIRED TO ACHIEVE REQUIRED SEPARATION BETWEEN WET AND DRY UTILITIES AT CROSSINGS.
23. THE CONTRACTOR SHALL CONSTRUCT A TRASH ENCLOSURE, PER PLAN AND THE SPECIFICATIONS, AND PER DETAILS SHOWN ON SHEET 13.
24. THE CONTRACTOR SHALL CONSTRUCT PIPE BOLLARDS, PER THESE PLANS AND THE SPECIFICATIONS. PIPE BOLLARDS SHALL BE THE 6" X 42" BOLT DOWN BOLLARD BY POST GUARD, OR APPROVED EQUAL. PIPE BOLLARD MINIMUM WALL THICKNESS SHALL BE SCHEDULE 40, AND SHALL BE FURNISHED WITH 5/8" X 4" CONCRETE ANCHOR BOLTS, AND A MINIMUM 6" BASE COVER. PUBLIC WORKS INSPECTOR SHALL VERIFY PIPE BOLLARD LOCATION PRIOR TO CONSTRUCTION.
25. THE CONTRACTOR SHALL CONSTRUCT WALKWAY LIGHTING, PER PLAN AND THE SPECIFICATIONS, AND PER DETAIL AS SHOWN ON SHEET 14. THE WALKWAY LIGHTING FIXTURES SHALL BE THE VSS-1-T4-32L-1-40K BY US POLE CO., OR APPROVED EQUAL.
26. THE CONTRACTOR SHALL SHALL REMOVE AND RECONSTRUCT THE GATE SYSTEM, PER PLAN AND THE SPECIFICATIONS, AND PER DETAILS SHOWN ON SHEET 18.
27. THE CONTRACTOR SHALL STRIPE NEW CROSSWALK, PARKING STALLS, ADA PARKING STALL PARKING PER PLAN AND THE SPECIFICATIONS, AND PER DETAIL SHOWN ON SHEET 17. CROSSWALK STRIPING SHALL BE PER CALTRANS STANDARD A24F, 2-FOOT STRIPE, 2-FOOT GAP, CONTINENTAL. PARKING STALL SHALL BE 4-INCHES WIDE WHITE PAINT. ADA PARKING STALL SHALL BE PER CALTRANS STANDARD A90A DOUBLE PARKING STALL.
28. THE CONTRACTOR SHALL INSTALL ADA PARKING SIGNS PER PLAN AND THE SPECIFICATIONS. THE ADA SIGNS SHALL BE THE CALTRANS STANDARD R99 AND R99B.
29. THE CONTRACTOR SHALL CONSTRUCT NEW SIDEWALK, PER THESE PLANS AND THE SPECIFICATIONS, AND PER STANDARD DETAIL SHOWN ON SHEET 15.
30. THE CONTRACTOR SHALL REMOVE THE EXISTING POWER POLE, POWER LINE, POLE FOOTING, GUY WIRE, CONCRETE WALKWAY, STEEL RAIL, LIGHT FOOTING, LIGHT POLE AND FIXTURE, CHAIN LINK FENCE, AND FOOTING, CONCRETE VAULTS, PER THESE PLANS AND THE SPECIFICATIONS.
31. THE CONTRACTOR SHALL CONSTRUCT A FLAGPOLE AND CONCRETE FOOTING, PER THESE PLANS AND THE SPECIFICATIONS, AND PER DETAIL SHEET 18. THE FLAG POLE SHALL BE CONSTRUCTED OF ALUMINUM ALLOY 6063 GRADE, WITH A SATIN ALUMINUM FINISH. THE CITY ENGINEER WILL VERIFY THE LOCATION OF THE NEW FLAGPOLE PRIOR TO CONSTRUCTION.
32. THE CONTRACTOR SHALL CONSTRUCT GALVANIZED CHAIN LINK FENCE, AND CONCRETE FOOTING, PER THESE PLANS AND THE SPECIFICATIONS, AND PER DETAIL SHEET 18.
33. THE CONTRACTOR SHALL JOIN BOTH STRUCTURES, APPARATUS BAY AND LIVING QUARTERS, PER PLAN AND THE SPECIFICATIONS, AND PER SEISMIC JOINT DETAILS SHOWN ON SHEET 18.
34. THE CONTRACTOR SHALL STUB END PLUG FUTURE DUAL-PORT POWER SHARE EV CHARGER CONDUIT WITH ROUND MANHOLE COVER AND FRAME, PER PLAN AND THE SPECIFICATIONS. THE MANHOLE COVER SHALL BE 8-INCH DIAMETER, BOLT DOWN WITH GASKET, MINIMUM 6-INCH SKIRT LENGTH/DEPTH, R-8X6-BD, BY MANHOLE COVERS DIRECT, OR APPROVED EQUAL. CITY ENGINEER SHALL VERIFY THE CONDUIT END LOCATION PRIOR TO CONSTRUCTION.
35. THE CONTRACTOR SHALL GRADE NEW EARTH SWALE, PER PLAN AND THE SPECIFICATIONS.
36. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY LINES. THE CONTRACTOR SHALL POT HOLE EXISTING UTILITIES SHOWN HEREON, OR MARKED BY USA IN THE FIELD TO VERIFY LINE LOCATIONS AND INVERTS BEFORE TRENCHING AND EXCAVATION OPERATIONS.
37. NOT USED
38. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REVIEW AND FAMILIARIZE CITY OF VENTURA RECORD DRAWINGS 1949-D-012, 1957-D-023, 1965-D-078, 1979-D-011, 1994-D-028 AND 2003-D-010, AND ALL OTHER RECORDS PRIOR TO CONSTRUCTION.
39. THE CONTRACTOR SHALL ABANDON EXISTING UTILITIES AND APPURTENANCES AND INSTALL PLUG PER PLAN AND THE SPECIFICATIONS.
40. THE CONTRACTOR SHALL REMOVE THE EXISTING TREES, AND TREE STUMP, PER PLAN AND PER THE SPECIFICATIONS, AND AS APPROVED BY THE PUBLIC WORKS ENGINEERING DURING CONSTRUCTION. THE APPROVAL SHALL BE MADE SOON AFTER OR DURING CONSTRUCTION OPERATIONS AND WHEN THE CITY'S ARBORIST DETERMINATION OF THE TREES HEALTH CONDITION. THE EXISTING TREES VARY IN SIZE, FROM 5-INCHES TO 24-INCHES TRUNK DIAMETER.
41. THE CONTRACTOR SHALL RESTORE DRAINAGE DITCH, PER PLAN AND THE SPECIFICATIONS, AND PER CROSS SECTION D-D SHWON ON SHEET 7. THE CONTRACTOR SHALL LEVEL OUT CUTS/FILLS TO THE EX. GROUND BY GRADING THE DISTURBED GROUND TO THE GRADES SHOWN ON PLANS.

ABBREVIATIONS

B.W.	BACK OF WALK
C.B.	CATCH BASIN
F.F.	FINISHED FLOOR
F.G.	FINISHED GRADE
F.L.	FLOWLINE
F.S.	FINISHED SURFACE
G.B.	GRADE BREAK
H.P.	HIGH POINT
L.P.	LOW POINT
W.W.M.	WELDED WIRE MESH

LEGEND

- PROPOSED UTILITY LINES
- DAYLIGHT
- CHAINLINK FENCE
- PROPOSED RETAINING WALL
- FLOWLINE
- STREET CENTERLINE
- DAYLIGHT LINE
- CONCRETE PAVEMENT
- LANDSCAPE AREA

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7
GRADING AND DRAINAGE PLAN

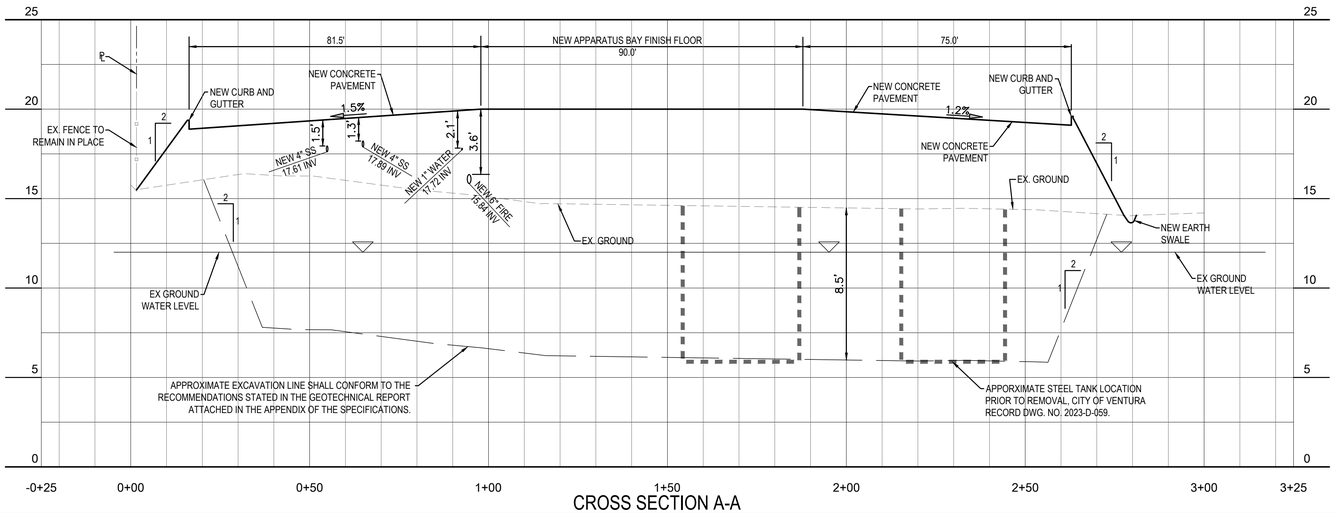
DRN. BY: DAG	DES. BY: GDK	CK'D. BY: GDK

REGISTERED PROFESSIONAL ENGINEER — DANIELA HASA — NO. 92225 — CIVIL — STATE OF CALIFORNIA

5 May 2026
PRINCIPAL ENGINEER — DATE

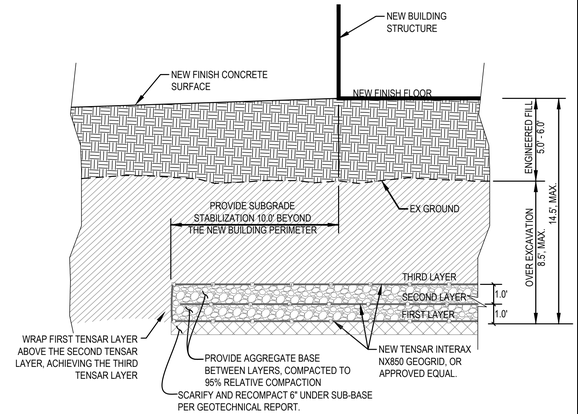
5/7/2026
CITY ENGINEER — DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
April 28, 2026	SHEET 6 OF 151 — DWG. NO. 2025-D-010



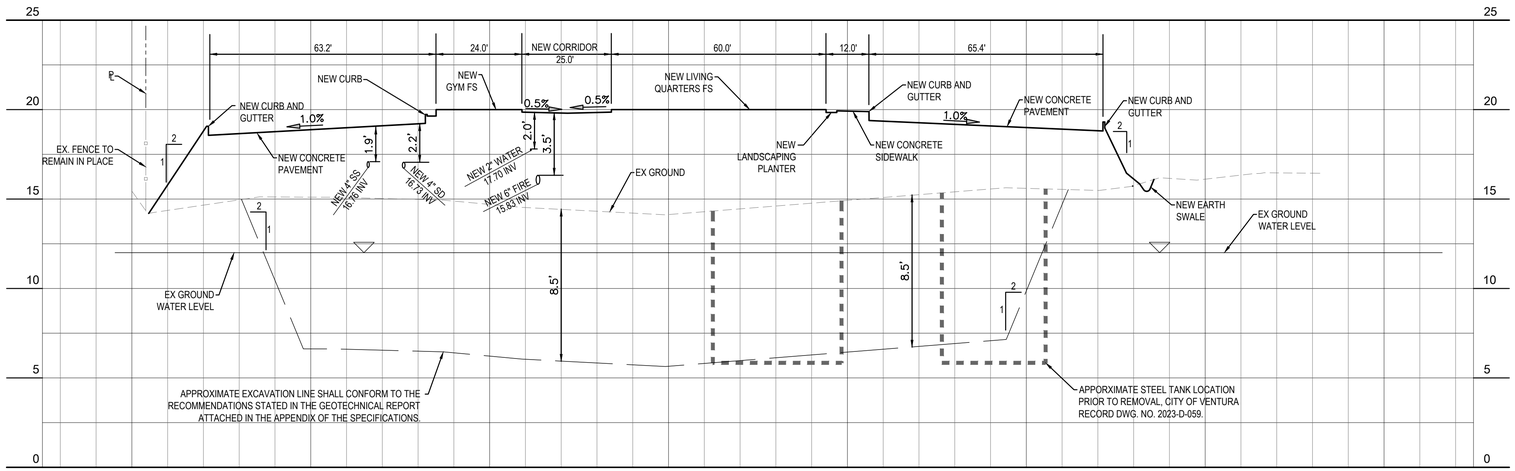
CROSS SECTION A-A

SCALE: HORIZONTAL 1"=20', VERTICAL 1"=4'



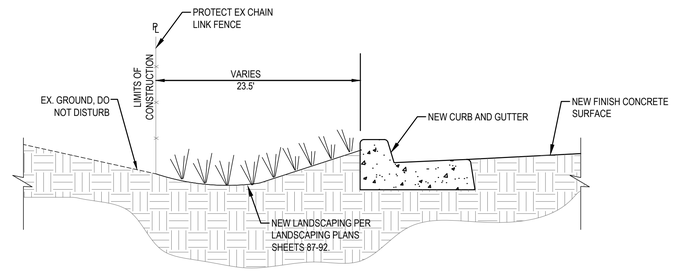
SUBGRADE STABILIZATION DETAIL, TYPICAL

SCALE: NOT TO SCALE



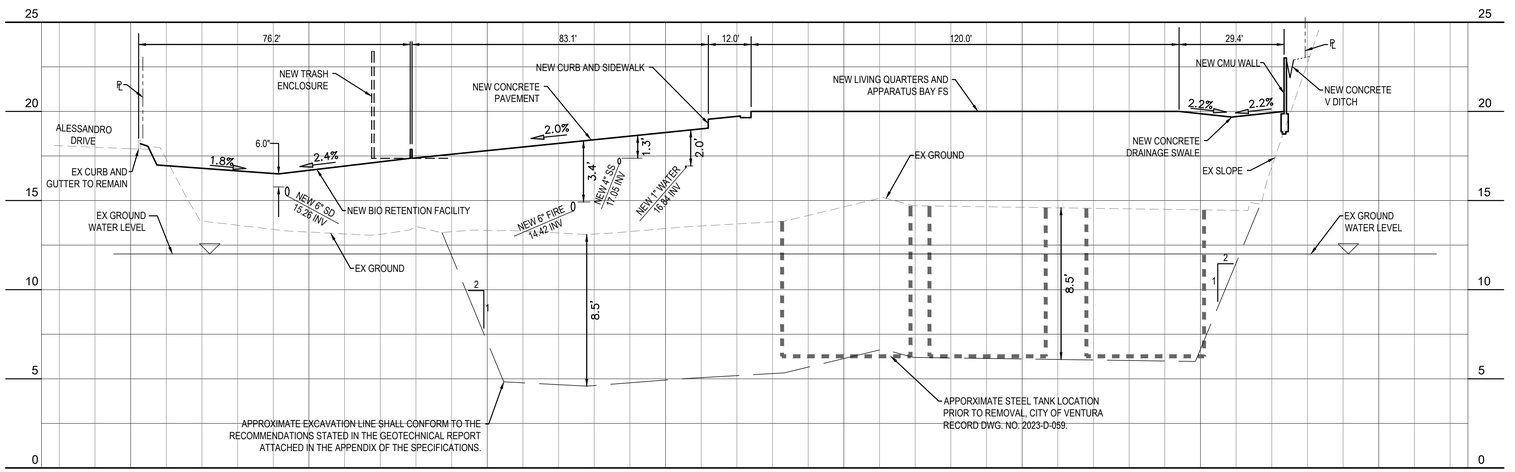
CROSS SECTION B-B

SCALE: HORIZONTAL 1"=20', VERTICAL 1"=4'



CROSS SECTION D-D

SCALE: NOT TO SCALE



CROSS SECTION C-C

SCALE: HORIZONTAL 1"=20', VERTICAL 1"=4'

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

SITE CROSS SECTIONS

DRN. BY: DAG	DES. BY: GDK	CK'D. BY: GDK

5 May 2026
PRINCIPAL ENGINEER DATE

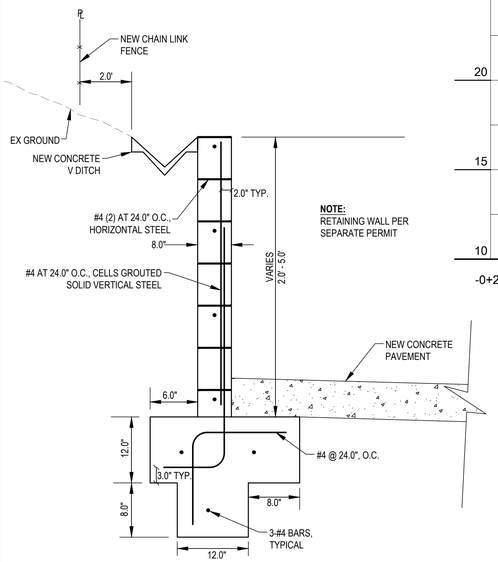
5/7/2026
CITY ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER DANIELA H. SA NO. 92225 CIVIL STATE OF CALIFORNIA

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
April 28, 2026	SHEET 7 OF 151	DWG. NO. 2025-D-010

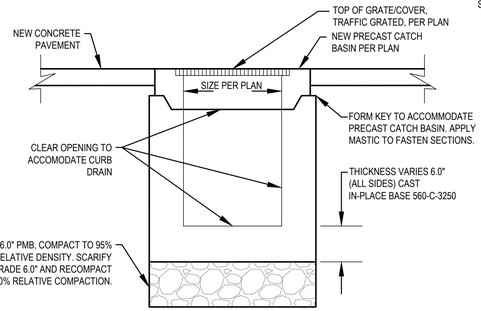
CONCRETE MASONRY RETAINING WALL GENERAL NOTES:

1. CONCRETE SHALL BE 2,500 p.s.i. MINIMUM @ 28 DAYS.
2. REINFORCED STEEL SHALL BE PER ASTM.A615, GRADE 60, MINIMUM fs=20,000 p.s.i.
3. REINFORCED STEEL LAPS MINIMUM 24.0".
4. CONCRETE MASONRY UNITS SHALL BE PER ASTM C90, CONCRETE BLOCKS, GRADE "A".
5. GROUT SHALL BE 1 PART CEMENT, 2 PARTS SAND, 2 PARTS PEA GRAVEL, 1,800 p.s.i. @ 28 DAYS.
6. MORTAR SHALL BY TYPE ASTM C270, TYPE "S".
7. SOIL SHALL BE MINIMUM 1,500 p.s.f. BEARING PRESSURE.
8. BACKFILL SHALL BE COHESIONLESS SOIL.
9. ALL WORKMANSHIP AND MATERIALS TO CONFORM WITH THE C.B.C.



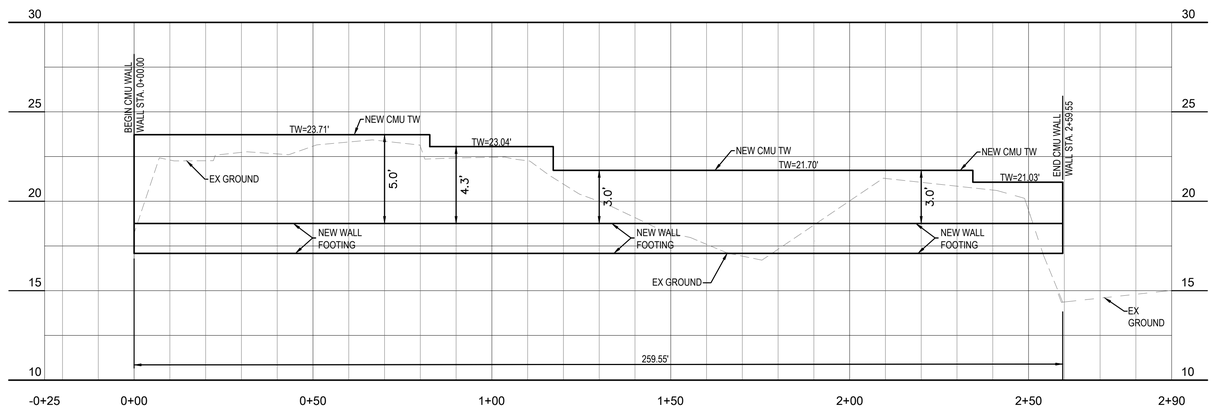
CONCRETE MASONRY UNIT RETAINING WALL

SCALE: NOT TO SCALE



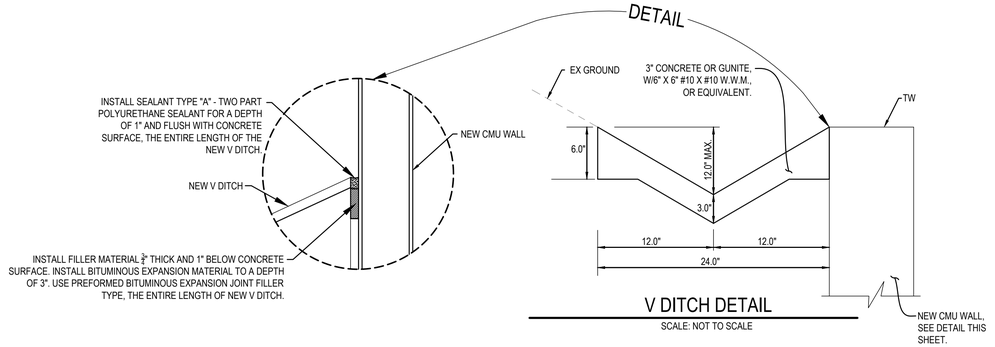
NEW CATCH BASIN DETAIL

NOT TO SCALE



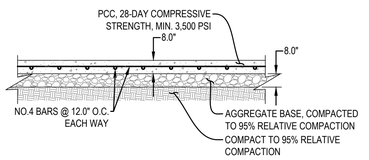
RETAINING WALL AND WALL FOOTING PROFILE

SCALE: HORIZONTAL 1"=20', VERTICAL 1"=4'



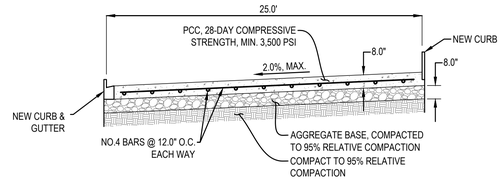
V DITCH DETAIL

SCALE: NOT TO SCALE



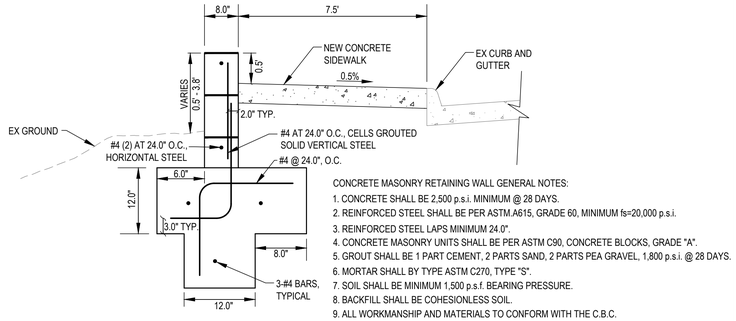
PAVEMENT SECTION THROUGHOUT SITE, TYPICAL

NOT TO SCALE



PAVEMENT SECTION AT ENTRANCE, TYPICAL

NOT TO SCALE

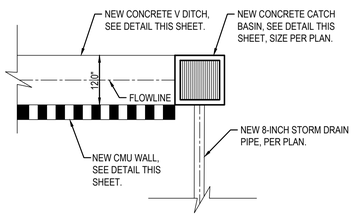


CONCRETE MASONRY RETAINING WALL GENERAL NOTES:

1. CONCRETE SHALL BE 2,500 p.s.i. MINIMUM @ 28 DAYS.
2. REINFORCED STEEL SHALL BE PER ASTM.A615, GRADE 60, MINIMUM fs=20,000 p.s.i.
3. REINFORCED STEEL LAPS MINIMUM 24.0".
4. CONCRETE MASONRY UNITS SHALL BE PER ASTM C90, CONCRETE BLOCKS, GRADE "A".
5. GROUT SHALL BE 1 PART CEMENT, 2 PARTS SAND, 2 PARTS PEA GRAVEL, 1,800 p.s.i. @ 28 DAYS.
6. MORTAR SHALL BY TYPE ASTM C270, TYPE "S".
7. SOIL SHALL BE MINIMUM 1,500 p.s.f. BEARING PRESSURE.
8. BACKFILL SHALL BE COHESIONLESS SOIL.
9. ALL WORKMANSHIP AND MATERIALS TO CONFORM WITH THE C.B.C.

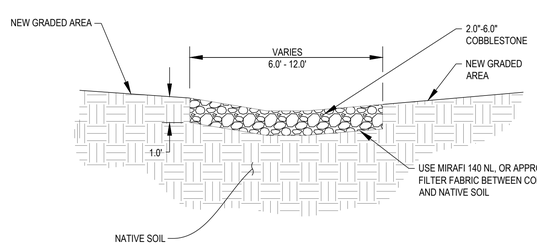
ALESSANDRO DRIVE SIDEWALK RETAINING WALL DETAIL

SCALE: NOT TO SCALE



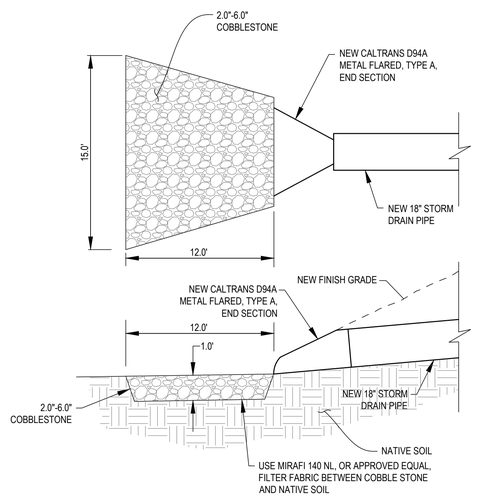
V DITCH, CMU WALL, AND CATCH BASIN DETAIL

SCALE: NOT TO SCALE



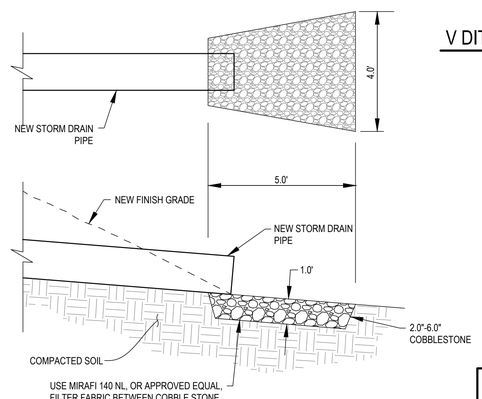
COBBLE STONE DETAIL

NOT TO SCALE



METAL FLARED END SECTION WITH COBBLESTONE DETAIL

NOT TO SCALE



PROTECTION RIP RAP DETAIL

NOT TO SCALE

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7
GRADING AND DRAINAGE DETAILS

DRN. BY: DAG	DES. BY: GDK	CK'D. BY: GDK

REGISTERED PROFESSIONAL ENGINEER — DANIELA HASSA — NO. 92226 — CIVIL — STATE OF CALIFORNIA

PRINCIPAL ENGINEER — 5 May 2026 — DATE

CITY ENGINEER — 5/7/2026 — DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

April 29, 2026 | SHEET 8 OF 151 | DWG. NO. 2025-D-010

WATER CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL CONSTRUCT THE NEW DOMESTIC WATER SERVICE, PER PLAN AND THE SPECIFICATIONS, AND PER CITY STANDARD DETAILS 009, AND 010 AS SHOWN ON SHEET 16.THE NEW DOMESTIC WATER SERVICE LATERAL SHALL BE 1.0" HDPE PER WATER SERVICE CONNECTION GENERAL NOTES AS SHOWN ON SHEET 16. THE CONTRACTOR SHALL USE ANGLE FITTINGS, VERTICALLY AND HORIZONTALLY WITHIN THE PIPE MANUFACTURE'S RECOMMENDED JOINT DEFLECTION LIMITS AND SPECIFICATIONS TO AVOID INTERFERING UTILITY CONFLICTS AND CROSSINGS. ALL ELBOW FITTINGS SHALL BE 1.0" HDPE PER THE SERVICE CONNECTION GENERAL NOTES AS SHOWN ON SHEET 12, OR APPROVED EQUAL. THE CONTRACTOR SHALL CONNECT THE NEW WATERLINE SERVICE LATERAL TO THE EXISTING WATERLINE MAIN. THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE CITY PUBLIC WORKS INSPECTOR AT LEAST SEVEN (7) CALENDAR DAYS BEFORE THE DATE OF CONNECTION. THE NEW DOMESTIC WATER SERVICE METER, METER BOX SHALL BE CONSTRUCTED BY VENTURA WATER. THE WATER SERVICE LATERAL TRENCH BACKFILL SHALL BE PER CITY STANDARD DETAIL NO. 112 AS SHOWN ON SHEET 17.
2. THE CONTRACTOR SHALL CONSTRUCT A NEW DOMESTIC WATER SERVICE LINE VALVE BOX WITH LID AND BALL VALVE, PER PLAN AND THE SPECIFICATIONS. THE VALVE BOX AND LID SHALL BE THE CHRISTY G05, BY OLDCASTLE PRECAST, OR APPROVED EQUAL.
3. THE CONTRACTOR SHALL COORDINATE SERVICE CONNECTIONS WITH BUILDING MANUFACTURER AND PUBLIC WORKS CITY ENGINEER PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL CONSTRUCT THE NEW FIRE LINE, PER PLAN AND THE SPECIFICATIONS, AND PER CITY STANDARD DETAILS 009, AND 010 AS SHOWN ON SHEET 16.THE NEW FIRE LINE SHALL BE 6.0" SCHEDULE 40 STEEL WITH GROOVED ENDS, AND PER DETAIL SHOWN ON SHEET 16. THE CONTRACTOR SHALL USE ANGLE FITTINGS, VERTICALLY AND HORIZONTALLY WITHIN THE PIPE MANUFACTURE'S RECOMMENDED JOINT DEFLECTION LIMITS AND SPECIFICATIONS TO AVOID INTERFERING UTILITY CONFLICTS AND CROSSINGS. ALL ELBOW FITTINGS SHALL BE STEEL SCHEDULE 40. THE CONTRACTOR SHALL CONNECT THE NEW FIRE LINE TO THE EXISTING WATERLINE MAIN. THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE CITY PUBLIC WORKS INSPECTOR AT LEAST SEVEN (7) CALENDAR DAYS BEFORE THE DATE OF CONNECTION. THE NEW FIRE LINE TRENCH BACKFILL SHALL BE PER CITY STANDARD DETAIL NO. 112 AS SHOWN ON SHEET 17.
5. THE CONTRACTOR SHALL INSTALL A 12-INCH LONG SOLID COUPLING WITH LOCKING RETAINING GLAND, PER PLAN AND THE SPECIFICATIONS.
6. THE CONTRACTOR SHALL INSTALL GATE VALVE WITH LOCKING RETAINER GLAND AND VALVE BOX ASSEMBLY PER CITY STANDARD DETAIL 004, AS SHOWN IN THESE PLANS AND THE SPECIFICATIONS. THE CITY PUBLIC WORKS INSPECTOR SHALL VERIFY THE LOCATION PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR SHALL INSTALL NEW FIRE HYDRANT WITH BURY, PER PLANS AND THE SPECIFICATIONS, AND PER CITY STANDARD DETAIL NO. 020 AS SHOWN ON SHEET 17.
8. THE CONTRACTOR SHALL INSTALL RISER AND CONNECTION TO THE NEW CLARIFIER SYSTEM, WITH REDUCER, PER PLANS AND THE SPECIFICATIONS, AND PER SHEET 11.

SEWER CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL CONSTRUCT THE NEW SEWER/CLARIFIER LATERAL, PER PLAN AND THE SPECIFICATIONS. THE NEW LATERAL SHALL BE PVC SDR 35 (PS46) WITH RUBBER RING JOINTS PER ASTM D3034 AND ASTM F679, OR APPROVED EQUAL. THE PIPE TRENCH BACKFILL SHALL BE PER CITY STANDARD DETAIL NO. 112 AS SHOWN ON SHEET 17.
2. THE CONTRACTOR SHALL CONSTRUCT A SEWER/CLARIFIER CLEAN OUT, PER PLAN AND THE SPECIFICATIONS, AND PER DETAIL SHOWN ON THIS SHEET 10.
3. THE CONTRACTOR SHALL CONSTRUCT THE SEWER CONNECTION TO THE NEW BUILDING PLUMBING, PER THESE PLANS AND SPECIFICATIONS, AND PER THE NEW BUILDING PLUMBING PLAN AS SHOWN ON SHEETS 68-70.
4. THE CONTRACTOR SHALL STUB END PLUG AT THE END OF THE PIPE, PER THESE PLANS AND SPECIFICATIONS.
5. THE CONTRACTOR SHALL CONSTRUCT A WASHDOWN DIVERSION SYSTEM, PER SHEET 10.
6. THE CONTRACTOR SHALL CONSTRUCT A 750 GALLON CLARIFIER SYSTEM, PER PLAN AND THE SPECIFICATIONS, AND PER DETAIL SHOWN ON SHEET 11. THE CLARIFIER SHALL BE THE JENSEN PRECAST CL750, OR APPROVED EQUAL.
7. THE CONTRACTOR SHALL CONSTRUCT A FIRE ENGINE WASHDOWN DIVERSION SYSTEM, PER PLAN AND THE SPECIFICATIONS. THE WASHDOWN DIVERSION SYSTEM SHALL BE THE DD600, BY FOX ENVIRONMENTAL SYSTEMS, AS SHOWN ON SHEET 11, OR APPROVED EQUAL. THE PUBLIC WORKS INSPECTOR SHALL VERIFY THE LOCATION OF THE NEW HOSE BIB PRIOR TO CONSTRUCTION.
8. THE CONTRACTOR SHALL COORDINATE SERVICE CONNECTIONS WITH BUILDING MANUFACTURER AND PUBLIC WORKS CITY ENGINEER PRIOR TO CONSTRUCTION.

SANITARY SEWER LINE TABLE

NO.	BEARING	DISTANCE	START NORTHING	START EASTING
SS1	N 59° 35' 12" E	30.81'	1921990.289	6177856.969
SS2	N 56° 08' 49" E	87.38'	1922005.889	6177883.543
SS3	S 66° 29' 28" E	62.88'	1922054.565	6177956.108
SS4	S 39° 48' 06" E	93.20'	1922029.482	6178013.770
SS5	N 50° 11' 53" E	37.70'	1921957.878	6178073.432
SS6	S 39° 54' 36" E	96.70'	1921957.878	6178073.432
SS7	N 77° 00' 47" E	199.98'	1922054.565	6177956.108
SS8	S 40° 01' 22" E	13.94'	1922099.506	6178150.976

CLARIFIER SYSTEM LINE TABLE

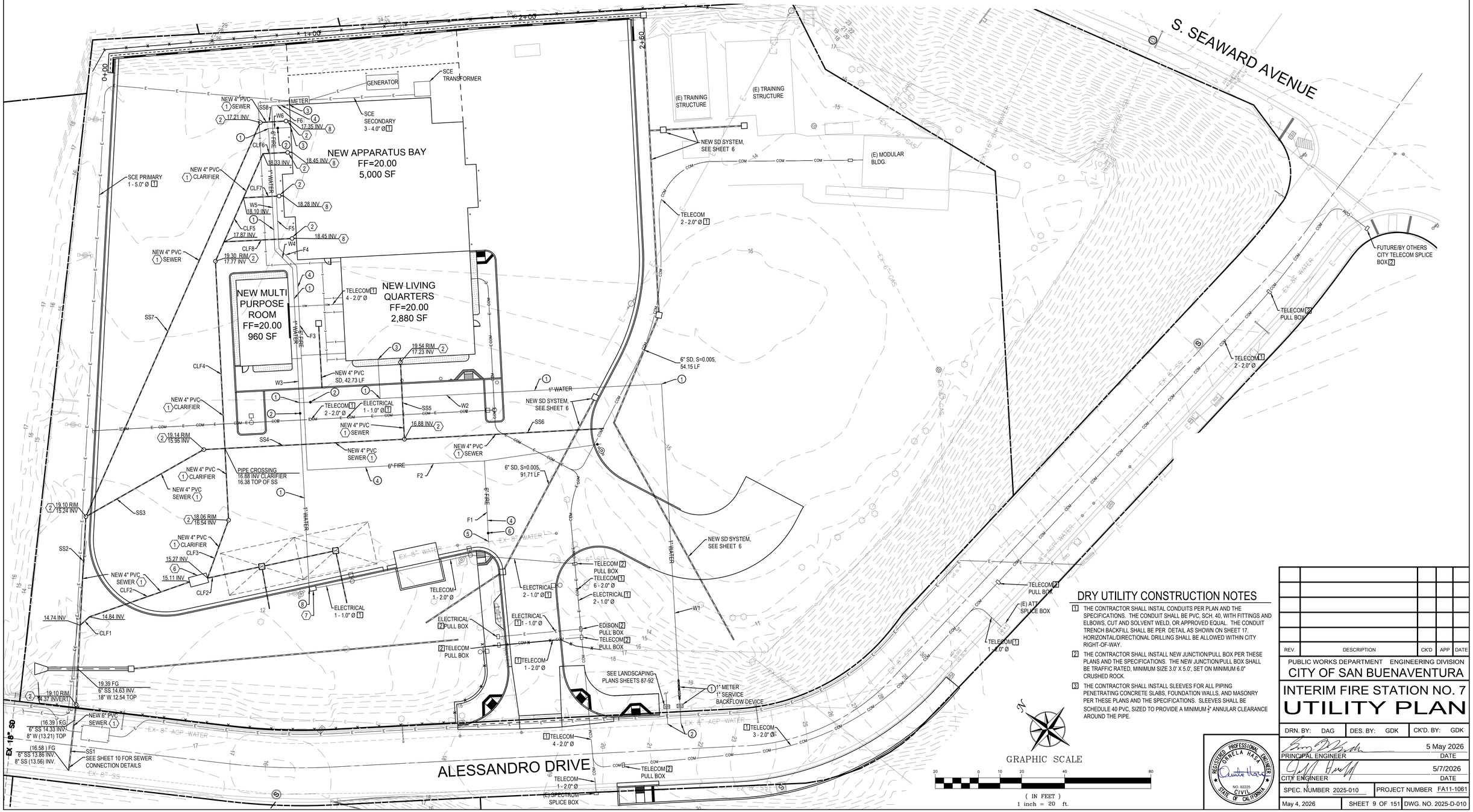
NO.	BEARING	DISTANCE	START NORTHING	START EASTING
CLF1	S 78° 54' 04" E	5.80'	1922026.465	6177914.163
CLF2	S 56° 04' 03" E	49.17'	1922025.349	6177919.854
CLF3	N 73° 06' 54" E	28.61'	1921992.314	6177967.097
CLF4	N 50° 15' 36" E	120.32'	1922000.624	6177994.474
CLF5	N 76° 59' 43" E	54.56'	1922077.545	6178086.996
CLF6	S 39° 42' 56" E	13.43'	1922089.823	6178140.156
CLF7	S 39° 45' 08" E	18.53'	1922084.780	6178118.320
CLF8	S 39° 38' 51" E	33.60'	1922053.885	6178118.009

FIRE LINE TABLE

NO.	BEARING	DISTANCE	START NORTHING	START EASTING
F1	N 50° 11' 85" E	66.37'	1921878.126	6178037.864
F2	S 39° 48' 06" E	84.22'	1921920.616	6178088.859
F3	S 50° 11' 85" W	94.72'	1921985.324	6178034.944
F4	N 08° 38' 42" E	11.72'	1922045.958	6178107.714
F5	N 50° 11' 54" E	66.20'	1922057.550	6178109.476
F6	N 39° 48' 06" W	8.28'	1922099.933	6178160.342

WATER LINE TABLE

NO.	BEARING	DISTANCE	START NORTHING	START EASTING
W1	S 49° 53' 03" E	157.82'	1921785.450	6178036.961
W2	S 39° 48' 06" E	155.98'	1921887.139	6178157.653
W3	N 50° 11' 54" E	149.31'	1921951.432	6177991.143
W4	N 08° 38' 43" E	11.73'	1922047.008	6178105.851
W5	N 50° 11' 54" E	56.50'	6178107.613	6178107.613
W6	S 39° 48' 06" W	10.28'	1922094.771	6178151.023



DRY UTILITY CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL INSTAL CONDUITS PER PLAN AND THE SPECIFICATIONS. THE CONDUIT SHALL BE PVC, SCH. 40, WITH FITTINGS AND ELBOWS, CUT AND SOLVENT WELD, OR APPROVED EQUAL. THE CONDUIT TRENCH BACKFILL SHALL BE PER DETAIL AS SHOWN ON SHEET 17. HORIZONTAL/DIRECTIONAL DRILLING SHALL BE ALLOWED WITHIN CITY RIGHT-OF-WAY.
2. THE CONTRACTOR SHALL INSTALL NEW JUNCTION/PULL BOX PER THESE PLANS AND THE SPECIFICATIONS. THE NEW JUNCTION/PULL BOX SHALL BE TRAFFIC RATED, MINIMUM SIZE 3.0' X 5.0', SET ON MINIMUM 6.0" CRUSHED ROCK.
3. THE CONTRACTOR SHALL INSTALL SLEEVES FOR ALL PIPING PENETRATING CONCRETE SLABS, FOUNDATION WALLS, AND MASONRY PER THESE PLANS AND THE SPECIFICATIONS. SLEEVES SHALL BE SCHEDULE 40 PVC, SIZED TO PROVIDE A MINIMUM 2" ANNULAR CLEARANCE AROUND THE PIPE.

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

UTILITY PLAN

DRN. BY: DAG	DES. BY: GDK	CK'D. BY: GDK

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

May 4, 2026 | SHEET 9 OF 151 | DWG. NO. 2025-D-010

REGISTERED PROFESSIONAL ENGINEER DANIELA HASA NO. 92226 CIVIL STATE OF CALIFORNIA

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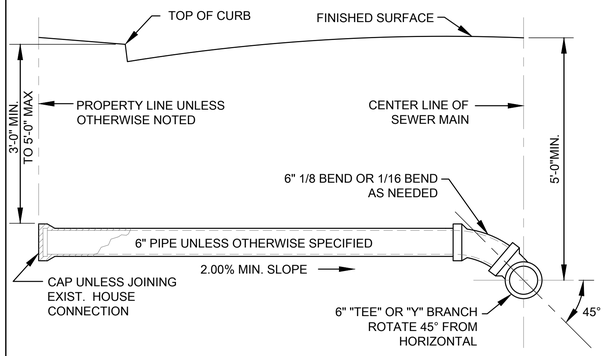
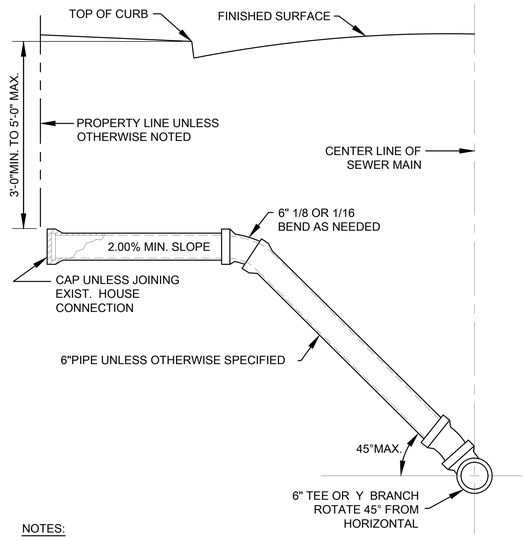


NOTES:

1. THE UPPER END OF THE HOUSE CONNECTION SHALL BE CAPPED WITH STANDARD PLASTIC CAP.
2. TYPE "A" HOUSE CONNECTION SHALL BE CONSTRUCTED UNLESS OTHERWISE SHOWN ON THE PLANS.
3. CONTRACTOR SHALL MARK A 2" HIGH "S" 1/8" DEEP ON THE CURB FACE AT ALL SEWER LATERALS.
4. PIPE SHALL BE SDR-35 PVC SEWER PIPE OR APPROVED EQUAL.
5. IF PIPE IS INSTALLED BY TRENCHLESS METHOD, PIPE SHALL BE HDPE, SDR-17 OR APPROVED EQUAL.

STANDARD HOUSE CONNECTION TYPE "A"

204

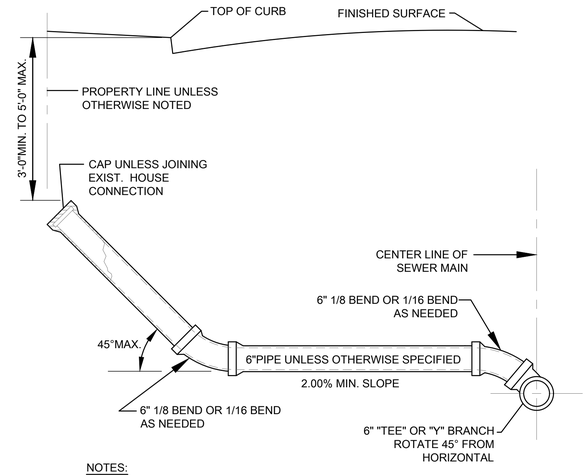


NOTES:

1. THE UPPER END OF THE HOUSE CONNECTION SHALL BE CAPPED WITH STANDARD PLASTIC CAP.
2. TYPE "A" HOUSE CONNECTION SHALL BE CONSTRUCTED UNLESS OTHERWISE SHOWN ON THE PLANS.
3. CONTRACTOR SHALL MARK A 2" HIGH "S" 1/8" DEEP ON THE CURB FACE AT SEWER LATERALS.
4. PIPE SHALL BE SDR-35 PVC SEWER PIPE, OR APPROVED EQUAL.
5. IF PIPE IS INSTALLED BY TRENCHLESS METHOD, PIPE SHALL BE HDPE, SDR-17 OR APPROVED EQUAL.

STANDARD HOUSE CONNECTION TYPE "B"

204



NOTES:

1. THE UPPER END OF THE HOUSE CONNECTION SHALL BE CAPPED WITH STANDARD PLASTIC CAP.
2. TYPE "A" HOUSE CONNECTION SHALL BE CONSTRUCTED UNLESS OTHERWISE SHOWN ON THE PLANS.
3. CONTRACTOR SHALL MARK A 2" HIGH "S" 1/8" DEEP ON THE CURB FACE AT SEWER LATERALS.
4. PIPE SHALL BE SDR-35 PVC SEWER PIPE, OR APPROVED EQUAL.
5. IF PIPE IS INSTALLED BY TRENCHLESS METHOD, PIPE SHALL BE HDPE, SDR-17 OR APPROVED EQUAL.

STANDARD HOUSE CONNECTION TYPE "C"

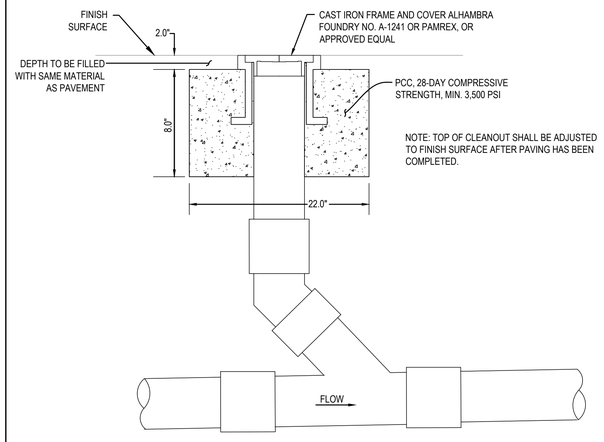
CONSTRUCTION NOTES

LEGEND

1. STRUCTURAL SECTION - MATCH EXISTING AC THICKNESS + 1"; MATCH EXISTING BASE THICKNESS. MINIMUM SHALL BE 4" AC OVER 8" PMB. FOR P.C.C. PAVING, MINIMUM THICKNESS IS 8" (EXCEPT AC OVERLAY ON P.C.C. SHALL MATCH EXISTING).
2. BACKFILL - IMPORT, COMPACTED TO 90% RELATIVE DENSITY. OR 100-E-100 SLURRY AS APPROVED BY THE CITY ENGINEER. COMPACTION TEST REPORT FROM A CERTIFIED SOIL LAB MUST BE PROVIDED TO CITY INSPECTOR PRIOR TO AC OR PCC PAVING.
3. PIPE ZONE - IMPORT CLEAN SAND WITH SAND EQUIVALENT OF 20 OR GREATER. COMPACT TO 90% RELATIVE DENSITY.
4. IF SAND EQUIVALENT IS 20 OR GREATER, JETTING MAY BE USED IN PIPE ZONE ONLY WHEN APPROVED BY THE CITY ENGINEER.
5. STREET SHALL BE SAWCUT. IF SAWCUT IS DAMAGED AFTER UTILITY IS INSTALLED AND BACKFILL IS COMPLETE, THE STREET SHALL BE RE-SAWCUT SO THAT A CLEAN EDGE REMAINS FOR PAVING. SAWCUT A MINIMUM OF 1/2 PAVEMENT THICKNESS. FOR P.C.C. OVERLAYED BY ASPHALT, SAWCUT THICKNESS OF P.C.C. PLUS A.C. THICKNESS. ALL ASPHALTIC CONCRETE JOINTS SHALL BE SEALED WITH ASPHALTIC EMULSION, 6" MINIMUM. EITHER SIDE BEFORE AND AFTER PAVEMENT IS PLACED. JOINTS OF NEW ASPHALTIC CONCRETE SHALL BE FLUSH WITH THE EXISTING PAVEMENT.
6. RECENTLY RESURFACED/MORATORIUM STREETS: FOR PERPENDICULAR TRENCHES, SEAL PAVEMENT WITH SLURRY SEAL CONSISTING OF MIX DESIGN APPROVED BY CITY ENGINEER, OVER ENTIRE TRENCH WIDTH PLUS AN ADDITIONAL 6' ON EITHER SIDE OF TRENCH CENTERLINE. FOR LONGITUDINAL TRENCHES,MILL AND FILL ENTIRE AREA ADJACENT TO TRENCH AND EXTEND TO NEXT LANE LINE OR CURB/GUTTER AS APPLICABLE (REPAIR ENTIRE LANES THAT ARE IMPACTED BY TRENCH CUT) UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. PAVEMENT SHALL BE CONTINUOUS WITH JOINTS ONLY WHERE NEW AND EXISTING ASPHALT/CONCRETE JOIN.
7. THE CONTRACTOR SHALL REPLACE TRAFFIC STRIPING, STREET MARKINGS, AND CURB MARKINGS REMOVED OR DAMAGED BY THE WORK WITH LIKE KIND MATERIALS TO MATCH EXISTING STRIPING.
8. FOR MULTIPLE TRENCH REPAIR LOCATIONS ADJACENT TO EACH OTHER, DISTANCE BETWEEN REPAIRS SHALL BE NO LESS THAN 4' OTHERWISE AREA BETWEEN TRENCHES SHALL BE A PART OF THE REPAIR. FOR MULTIPLE LOCATIONS LESS THAN 32 SQ FT IN SIZE. THE PAVEMENT SHALL BE SEALED WITH A TYPE II SLURRY SEAL TO INCLUDE THE FULL WIDTH (+1') AND LENGTH (+1') OF ALL TRENCH CUTS.
9. TRENCH REPAIR MUST BE UNIFORM AND SQUARE. ZIG ZAG TRENCHES ARE NOT ALLOWED.

NOTE:
TRENCH BACKFILL DETAILS ARE APPLICABLE FOR ALL UNDERGROUND UTILITY INSTALLATIONS INCLUDING, WITHOUT LIMITATION; TELECOMMUNICATIONS (CABLE, T.V., PHONE, ETC.), GAS, ELECTRIC, AND ALL UTILITIES INSTALLING CONDUITS WITHIN CITY STREETS WITHOUT A FRANCHISE AGREEMENT WITH THE CITY.

TRENCH BACKFILL



SEWER/CLARIFIER CLEANOUT

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7
SANITARY SEWER STANDARD DETAILS

DRN. BY: DAG	DES. BY: GDK	CK'D. BY: GDK

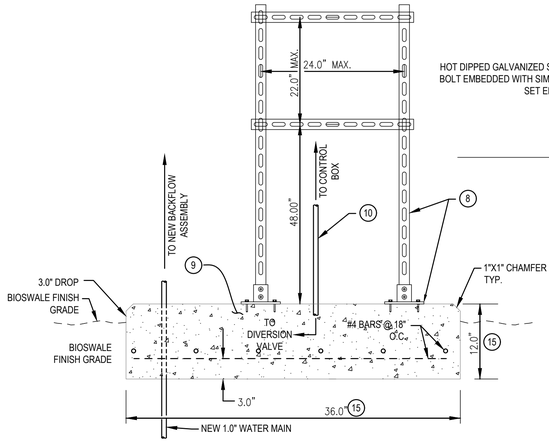
REGISTERED PROFESSIONAL ENGINEER DANIELA HASA NO. 92228 CIVIL STATE OF CALIFORNIA

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

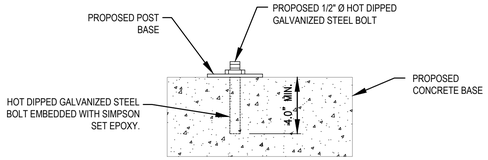
SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

April 28, 2026 | SHEET 10 OF 151 | DWG. NO. 2025-D-010



WASHDOWN DIVERSION SYSTEM MOUNT

SCALE: NOT TO SCALE

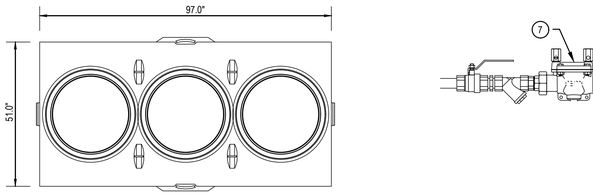


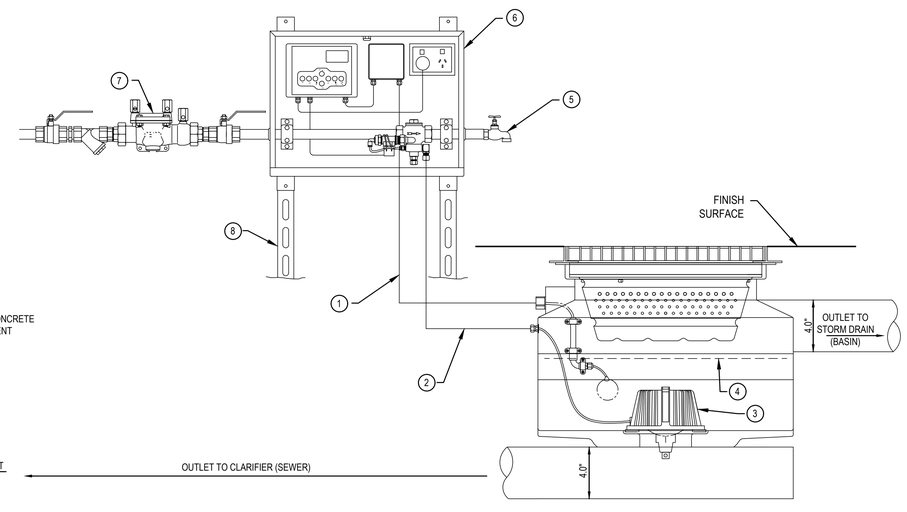
POST BASE ANCHOR DETAIL

N.T.S.

CONSTRUCTION NOTES

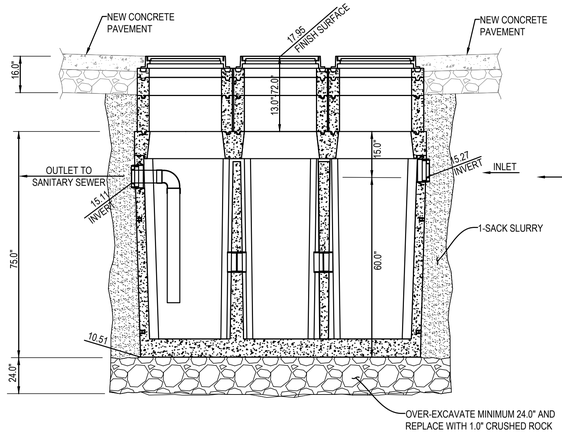
1. 6 CORE CONTROL CABLE
2. 1/2" Ø COPPER DRIVE LINE
3. FOX DIVERSION VALVE, OR APPROVED EQUAL.
4. FLOAT ACTIVATION LEVEL
5. HOSE BIB
6. PLC, DEMAND VALVE, AND GPO (240v 10Amp) CONTROL BOX, 304 STAINLESS STEEL
7. BACKFLOW ASSEMBLY PER CITY STANDARD DETAIL NO. 010 AS SHOWN ON SHEET 12.
8. GALVANIZE STEEL FRAME SYSTEM, INCLUDING POST BASE ANCHORS, NUTS AND BOLTS, BY UNISTRUT MODEL P1000WT, HOT DIPPED GALVANIZED, MINIMUM 12-GAUGE, 1-5/8" CHANNEL RAILS, CONFORMING TO ASTM A123, OR APPROVED EQUAL.
9. 2.0' X 4.0' X 12.0" CONCRETE, 560-C-3250, BASE.
10. 2.0" GALVANIZED STEEL RISER FOR THE 6 CORE CONTROL CABLE.
11. THE CONTRACTOR SHALL CONSTRUCT THE NEW CLARIFIER PIPE, PER PLAN AND THE SPECIFICATIONS. THE CLARIFIER PIPE SHALL BE PVC SDR 35 (PS46) WITH RUBBER RING JOINTS PER ASTM D3034 AND ASTM F679, OR APPROVED EQUAL. THE PIPE TRENCH BACKFILL SHALL BE PER CITY STANDARD DETAIL NO. 112 AS SHOWN ON SHEET 16.
12. THE CONTRACTOR SHALL CONSTRUCT A 750 GALLON CLARIFIER SYSTEM, PER PLAN AND THE SPECIFICATIONS, AND PER DETAIL SHOWN ON THIS SHEET. THE CLARIFIER SHALL BE THE JENSEN PRECAST CL750, OR APPROVED EQUAL.
13. THE CONTRACTOR SHALL CONSTRUCT A WASHDOWN DIVERSION SYSTEM, PER PLAN AND THE SPECIFICATIONS, AND PER DETAIL SHOWN ON THIS SHEET. THE WASHDOWN DIVERSION SYSTEM SHALL BE THE FOX DD600, BY FOX ENVIRONMENTAL SYSTEMS, OR APPROVED EQUAL.
14. THE CONTRACTOR SHALL CONSTRUCT A WASHDOWN DIVERSION SYSTEM, PER PLAN AND THE SPECIFICATIONS, AND PER DETAIL SHOWN ON THIS SHEET. THE WASHDOWN DIVERSION SYSTEM SHALL BE THE FOX DD600, BY FOX ENVIRONMENTAL SYSTEMS, OR APPROVED EQUAL.
15. THE CONTRACTOR SHALL CONSTRUCT A 2' X 3' X 12" CONCRETE BASE FOR THE NEW WASHDOWN DIVERSION SYSTEM STEEL MOUNT. CONCRETE SHALL BE 520-C-2500.
16. THE CONTRACTOR SHALL CONSTRUCT CLEAN OUT, PER PLAN AND THE SPECIFICATIONS, PER PLUMBING PLANS SHEETS 64 THRU 67, AND PER DETAIL SHOWN ON THIS SHEET 16.
17. THE CONTRACTOR SHALL CONSTRUCT A NEW CATCH BASIN WITH PIPE PER THESE PLANS AND THESE SPECIFICATIONS, PER SHEETS 5 AND 7, AND PER AND PER DETAIL THIS SHEET. THE NEW CATCH BASIN SHALL BE THE PRECAST CONCRETE 12"X12", STANDARD CATCH BASIN WITH GALVANIZED STEEL TRAFFIC RATED FRAME AND GRATE, BY PRECON PRODUCTS, OR APPROVED EQUAL.





WASHDOWN DIVERSION SYSTEM

SCALE: NOT TO SCALE



CLARIFIER SYSTEM DETAIL

SCALE: NOT TO SCALE

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

CLARIFIER SYSTEM DETAILS

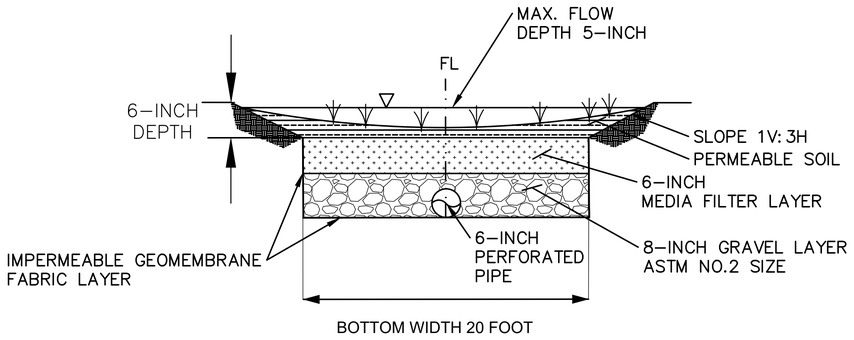
DRN. BY: DAG	DES. BY: GDK	CK'D. BY: GDK

5 May 2026
PRINCIPAL ENGINEER DATE

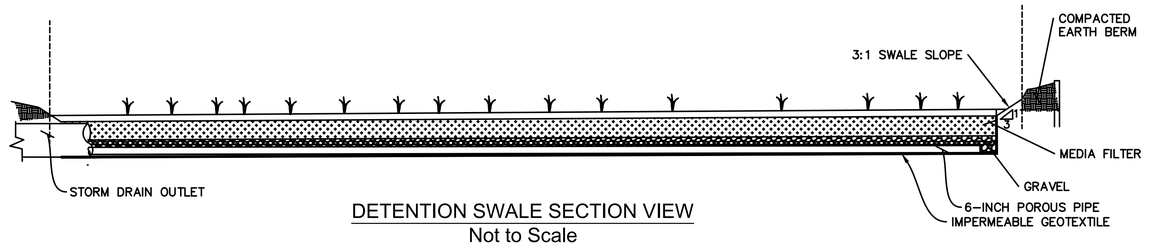
5/7/2026
CITY ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER DANIELA HAAS NO. 92225 CIVIL STATE OF CALIFORNIA

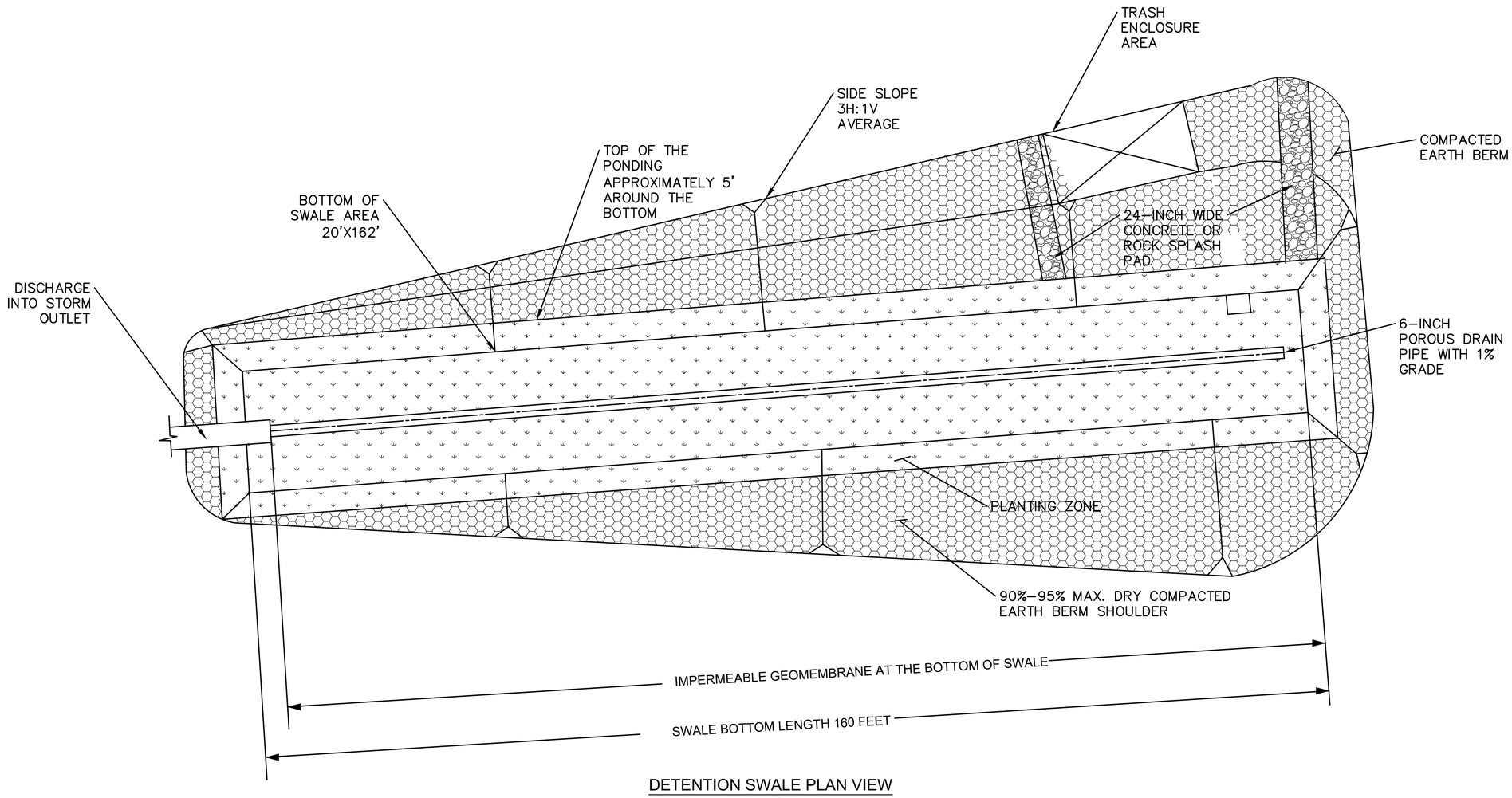
SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
April 28, 2026	SHEET 11 OF 151	DWG. NO. 2025-D-010



DETENTION SWALE SECTION VIEW
Not to Scale



DETENTION SWALE SECTION VIEW
Not to Scale



DETENTION SWALE PLAN VIEW
Not to Scale

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

BIOSWALE DETAILS

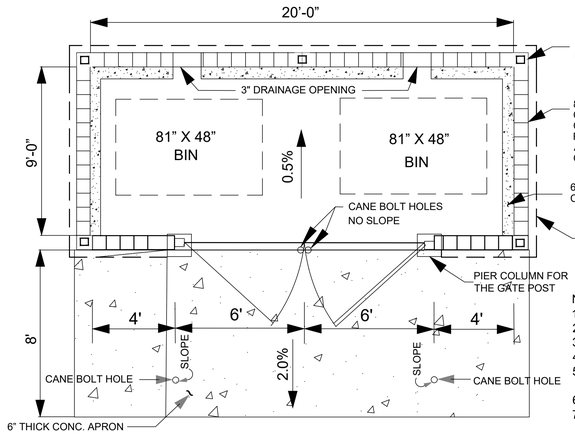
DRN. BY: DAG	DES. BY: GDK	CK'D. BY: GDK

5 May 2026
PRINCIPAL ENGINEER DATE

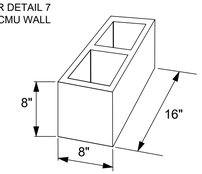
5/7/2026
CITY ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER DANIELA HAAS NO. 92225 CIVIL STATE OF CALIFORNIA

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
April 28, 2026	SHEET 12 OF 151	DWG. NO. 2025-D-010



TRASH ENCLOSURE PLAN VIEW



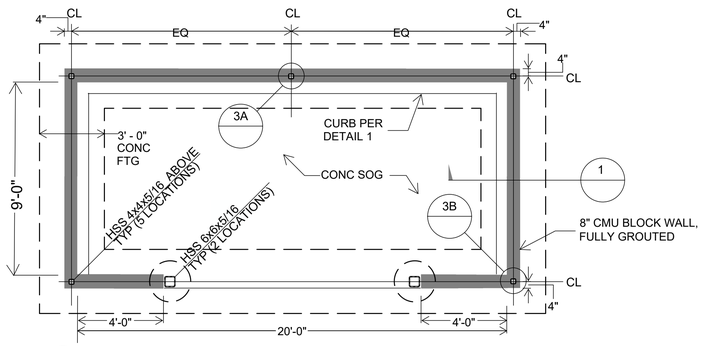
CMU BLOCK

NOTES:
1. CMU STRENGTH, f'm = 2,000 PSI
2. CONCRETE STRENGTH, f'c = 4,000 PSI
3. REINFORCING SHALL BE ASTM A706 GR 60.
4. HSS MEMBERS SHALL BE GR. 50 AND GALVANIZED.
5. PLATE STEEL SHALL BE GR. 50 AND GALVANIZED, UNO.
6. ALL METAL DECK TO BE GALVANIZED.
7. POUR CONCRETE FOOTING AGAINST PROPERLY COMPACTED SOIL PER SOILS REPORT.
8. PRODUCTS TO BE AS SPECIFIED OR APPROVED EQUAL.

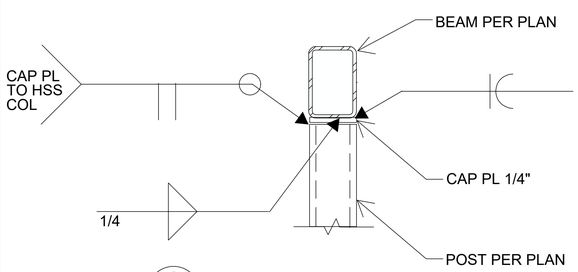
TRASH BIN DIMENSION

Container	Clearance Dimension (inches)			Volume (yd3)	Equivalent Container(s)	Notes
	Length	Width	Height			
3 YD^{3}bin	81	48	60	3.00	6-96 gallon carts	not availabe for food material

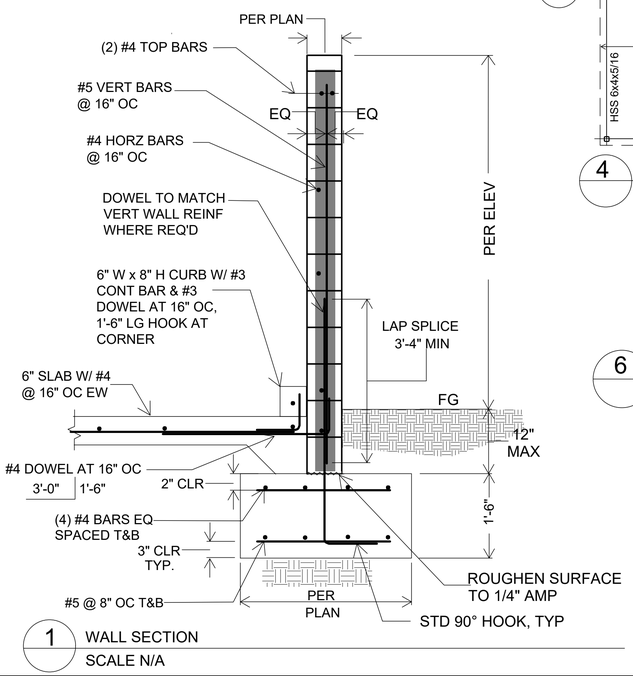
NOT TO SCALE



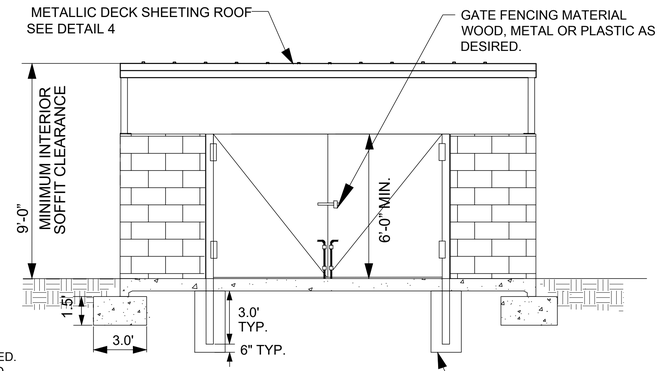
7 FOUNDATION PLAN VIEW



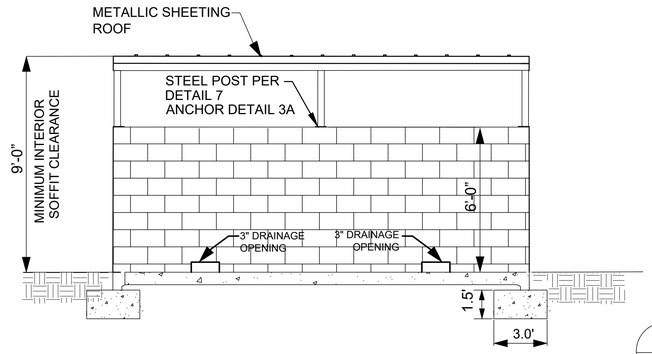
2 HSS TO HSS TYPICAL CONNECTION
SCALE N/A



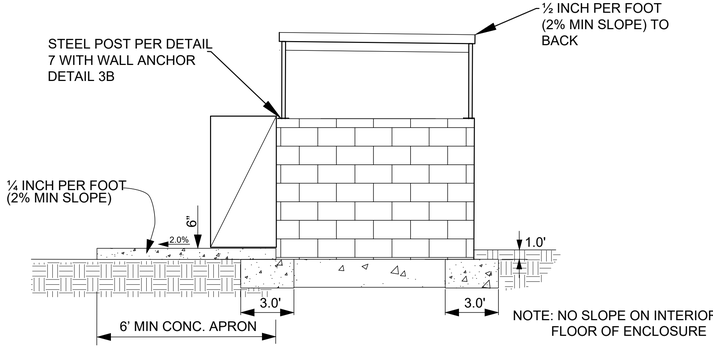
1 WALL SECTION
SCALE N/A



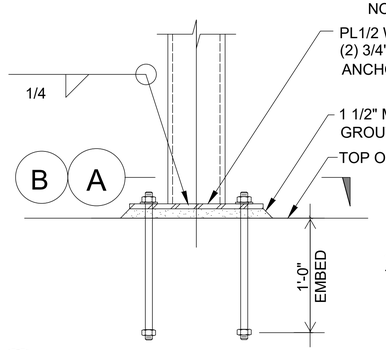
FRONT ELEVATION
NOT TO SCALE



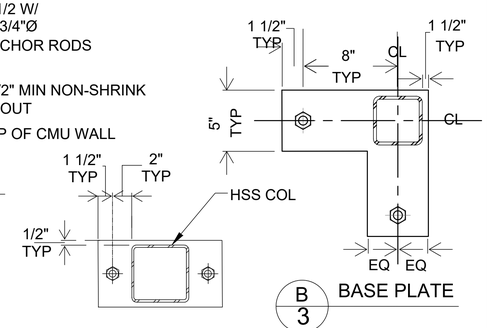
REAR ELEVATION
NOT TO SCALE



SIDE ELEVATION
NOT TO SCALE

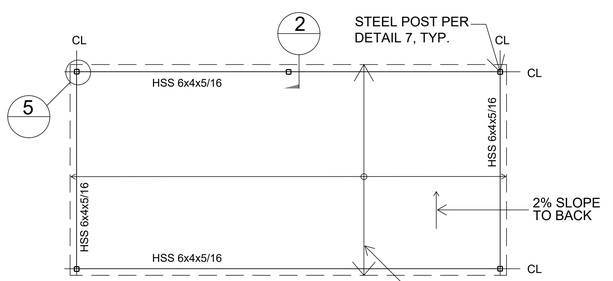


3 HSS ANCHORAGE TO CMU WALL
1" = 1' - 0"

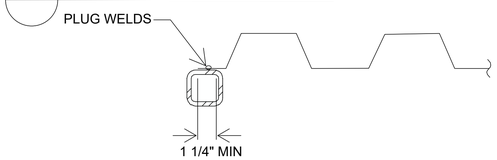


B/3 BASE PLATE

A/3 BASE PLATE

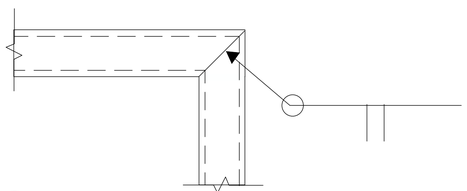


4 ROOF FRAMING PLAN VIEW



6 DECK EDGE ALIGMENT BEARING DETAIL

DECK ATTACHMENT			
END	INTERMEDIATE	SEAM	MARGINAL
3/4" Ø PUDDLE WELD @ 12" OC	3/4" Ø PUDDLE WELD @ 12" OC	BUTTON PUNCH @ 36" OC	3/4" Ø PUDDLE WELD @ 12" OC



5 HSS CORNER CONNECTION
SCALE N/A

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7
TRASH ENCLOSURE DETAILS

DRN. BY: DAG	DES. BY: GDK	CK'D. BY: GDK
PRINCIPAL ENGINEER		5 May 2026 DATE
CITY ENGINEER		5/7/2026 DATE
SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061	
April 28, 2026	SHEET 13 OF 151	DWG. NO. 2025-D-010

REGISTERED PROFESSIONAL ENGINEER DANELA HASA NO. 92226 CIVIL STATE OF CALIFORNIA

NLS LIGHTING

VSS-1

SITE LIGHTING

FORM AND FUNCTION
- Sleek, low profile housing
- Engineered for optimum thermal management
- Low depreciation rate
- Optical system designed for:
  - Parking Lots
  - Commercial Applications

CONSTRUCTION
- Die Formed heavy duty Aluminum
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP-65 seal for electronics compartment
- Two-piece silicone Micro Optic system ensures IP-67 level seal around each PCB

FINISH
- 3-5 mils electrostatic powder coat.
- NLS' standard high-quality finishes prevent corrosion protects against extreme environmental conditions

WARRANTY
Five-year limited warranty for drivers and LEDs.

LISTINGS
- Certified to UL 1598
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65/ IP67 Rated

LED WATTAGE CHART

	32L	48L	64L
350 milliamps	-	-	-
530 milliamps	-	-	-
700 milliamps	71w	104w	136w
1050 milliamps	106w	156w	205w

Project Name: Type:

Cat #	Light Dist.	No. of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
Value Series Square 1 **(VSS-1)**	Type 2 **(T2)** Type 3 **(T3)** Type 4 **(T4)** Type 5 **(T5)** Nema 3 30° Narrow Beam **(N3)**	32 **(32L)** 48 **(48L)** 64 **(64L)**	700 **(7)** 1050 **(1)**	3000K **(30K)** 4000K **(40K)** 5000K **(50K)**	120-277 **(UNV)** 347-480 **(HV)**	Direct Pole Single DI90 6' **(DP6)** D90, T90, T120, QD 10' **(DP10)** *For Round Pole Adaptor See Adaptor *See next page for Arm Configurations Knuckle Mount **(KM)** Trunion Mount **(TM)** Wall Mount **(WM)** *Includes 6" Bolt On Arm Tennis Arm **(TA)**	Bronze **(BRZ)** White **(WHT)** Silver **(SVR)** Black **(BLK)** Graphite **(GPH)** Grey **(GRY)** Custom **(CS)**	Bird Spikes **(BS)** Marine Grade Finish **(MGF)** Surge Protector **(10K)** Nema 7-Pin Receptacle **(PE7)** Photocell **(PC)** *Universal Voltage 120-277 Photocell + Receptacle **(PCR)** Motion Sensor **(MS)** ESP-211 with Motion Sensor **(ESP-MS)** (Wattage) *For 8' Pole **(ESP-8)** *For 10' Pole **(ESP-10)** *For 12' to 20' **(ESP-AD)** **Motion Sensor and ESP-211 are Integral to the fixture* Quick Mount Bracket **(QMB)** Retrofit Quick Mount Bracket **(RQMB)** Internal Microwave Motion Sensor **(IMMS)** Rotate Optic Right **(ROR)** Rotate Optic Left **(ROL)** Round Pole Adaptor 3"-4" Pole **(RPA4)** Round Pole Adaptor 5"-6" Pole **(RPA5)** House Side Shields **(HSS)** *Add-on applicable with 90 x 90lm 30° Optics Automotive House Side Shields **(AHS)** Acrylic Optics **(AO)**

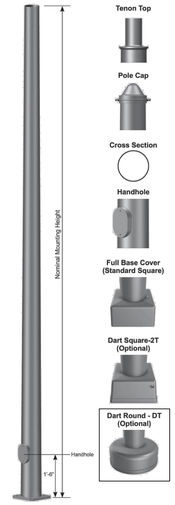
valmont STRUCTURES

ROUND TAPERED STEEL DS210 Light Duty

Job Name: KIMBALL PARK PARKING LOT PROJECT
Job Location - City: VENTURA State: CA
Product: DS210 ---- Quote:
Client Name:
Created By: Date:
Customer Approval: Date:

Poles - Steel | RTS / DS210 | Light Duty

SPECIFICATIONS



Tenon Top

Pole Cap

Cross Section

Handhole

Full Base Cover (Standard Square)

Dart Square-2T (Optional)

Dart Round - DT (Optional)

PROVIDE CUSTOM BOLT SKIRT TO MATCH EXISTING

Pole Shaft - The pole shaft is a 1-piece assembly conforming to ASTM A595 Grade A or A572 Grade 55 with a constant linear taper of 0.14 in/ft.

Pole Top - Pole is provided with either a tenon top or drilled for a fixture mounting. A removable pole cap is provided for drilled poles. Consult the luminaire manufacturer for correct tenon size or drill pattern. Other pole top options include pole cap only (PC) or plain top (PL) which is typical when the pole top diameter matches the necessary slip fit dimensions.

Handhole - A reinforced handhole with grounding provision is provided at 1'-6" from the base end of the pole assembly. Each handhole includes a cover and the cover attachment hardware. Poles with a 5.90" base diameter are supplied with a 3" X 5" rectangular handhole. All other pole assemblies are provided with a 4" X 6.5" ovalized handhole. Handhole dimensions are nominal.

Base Cover - A two-piece full base cover fabricated from ABS plastic is provided with each pole assembly. Valmont reserves the right to provide a two-piece steel full base cover on some applications depending upon the finish requirement and/or pole base diameter. Nut covers can be substituted on most models. Additional base cover options, including the Dart Square (2T) cast aluminum cover and Dart Round (DT) cast aluminum cover, are available upon request.

Anchor Bolts - Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an "L" bend on one end and are galvanized a minimum of 12" on the threaded end.

Hardware - All structural fasteners are galvanized high strength carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel.

Finish - Standard finishes are either Galvanized (GV) or Finish Painted (FP). Additional finish options including Finish Paint over Galvanizing (FPGV) or any of the V-PRO™ Finish Coating Systems are available upon request. See the product ordering code for color options.

Design Criteria - Please reference Design Criteria Specification for appropriate design conditions.

Poles - Steel | RTS / DS210 | Light Duty

valmont STRUCTURES

ROUND TAPERED STEEL DS210 Light Duty

Job Name:
Job Location - City: State:
Product: DS210 ---- Quote:
Client Name:
Created By: Date:
Customer Approval: Date:

DESIGNATION, LOAD AND DIMENSIONAL DATA

NOMINAL MOUNTING HEIGHT	80 MPH w/1.3 GUST MAX EPA (SQFT)	80 MPH w/1.3 GUST MAX WEIGHT (LBS)	90 MPH w/1.3 GUST MAX EPA (SQFT)	90 MPH w/1.3 GUST MAX WEIGHT (LBS)	100 MPH w/1.3 GUST MAX EPA (SQFT)	100 MPH w/1.3 GUST MAX WEIGHT (LBS)	BASE OD (IN)	TOP OD (IN)	WALL THK (GA)	STRUCTURE WEIGHT (LBS)	DESIGNATION
20'-0"	19.3	482	15.1	377	12.2	305	5.90	3.10	11	140	590A200
	24.2	605	19.3	482	15.6	390	6.50	3.70	11	160	650A200
25'-0"	12.5	312	9.9	247	8.0	200	5.90	2.40	11	155	590A250
	20.3	507	16.2	405	13.1	327	7.00	3.50	11	200	700A250
	30.5	760	24.0	625	19.8	495	7.00	3.50	7	280	700E250
30'-0"	11.7	292	9.3	232	7.5	187	6.60	2.40	11	200	660A300
	18.9	473	14.9	373	12.0	300	8.00	3.80	11	265	800A300
	33.5	838	27.0	675	22.0	550	8.00	3.80	7	380	800E300
35'-0"	11.2	280	8.9	222	7.1	177	7.30	2.40	11	250	730A350
	18.9	472	15.1	377	12.2	305	8.50	3.60	11	315	850A350
	23.2	580	18.2	455	14.5	363	9.50	4.60	11	370	950A350
39'-0"	10.7	267	8.5	212	6.6	165	7.82	2.40	11	285	782A389
	17.2	430	13.5	338	10.8	270	9.00	3.58	11	355	900A389
	28.5	715	23.0	575	19.0	475	9.00	3.58	7	515	900E389
45'-0"	17.4	435	13.5	338	10.6	265	10.00	3.70	11	450	T00A450
	28.5	715	23.0	575	19.0	475	10.00	3.70	7	650	T00E450
50'-0"	13.2	330	10.6	265	8.3	208	10.00	3.00	11	475	T00A500
	20.5	512	16.5	412	13.6	340	10.00	3.00	7	680	T00E500

DS210 Heavy Duty poles available at valmontstructures.com

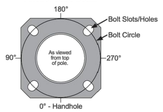
CUSTOM CUT POLE TO 22'

1. Maximum EPA (Effective Projected Area) and weight values are based on top mounted luminaires and/ or brackets having a centroid 2'-6" above the Nominal Mounting Height. Other EPA and weight values are available upon inquiry at the factory. Satisfactory performance of poles is dependent upon the pole being properly attached to a supporting foundation of adequate design.
2. Structure weight is a nominal value which includes the pole shaft and base plate only.

ANCHORAGE DATA

POLE BASE OD (IN)	POLE WALL THK (GA)	BASE PLATE BOLT CIRCLE DIA (IN)	BASE PLATE + (IN)	BASE PLATE SQUARE (IN)	BASE PLATE THK (IN)	ANCHOR BOLTS DIA x LENGTH + HOOK (IN)	ANCHOR BOLTS PROJECTION (IN)	ANCHOR BOLTS + (IN)
5.90	11	9.00	0.50	10.00	0.875	1.00 x 36.00 x 4.00	4.13	0.25
6.50	11	9.50	0.50	10.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
6.60	11	9.50	0.50	10.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
7.00	11	10.00	0.50	10.88	0.875	1.00 x 36.00 x 4.00	4.13	0.25
7.00	7	10.00	0.50	10.88	1.000	1.00 x 36.00 x 4.00	4.25	0.25
7.30	11	10.50	0.50	11.25	0.875	1.00 x 36.00 x 4.00	4.13	0.25
7.82	11	11.00	0.50	11.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
8.00	11	11.00	0.50	11.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
8.00	7	11.00	0.50	11.50	1.250	1.25 x 42.00 x 6.00	5.00	0.25
8.50	11	11.50	0.50	12.00	1.000	1.00 x 36.00 x 4.00	4.25	0.25
9.00	11	12.50	0.50	12.38	1.000	1.00 x 36.00 x 4.00	4.25	0.25
9.00	7	12.50	0.50	12.38	1.250	1.25 x 42.00 x 6.00	5.00	0.25
9.50	11	13.00	0.50	13.00	1.000	1.00 x 36.00 x 4.00	4.25	0.25
10.00	11	13.50	0.50	14.00	1.000	1.00 x 36.00 x 4.00	4.25	0.25
10.00	7	13.50	0.50	14.00	1.250	1.25 x 42.00 x 6.00	5.00	0.25

Anchor Base Detail



PRODUCT ORDERING CODE

MODEL	BASE DESIGNATION	FIXTURE MOUNTING	FINISH SYSTEM	STANDARD COLOR OPTION	BASE COVER	ANCHOR BOLTS	SUPPLEMENTAL INFO
DS210	590A250	--	--	--	--	--	

Stated Current Designation from the Load and Dimensional Data Chart

Drill Mounting (See Orientation)
D1 = (1) Drilling @ 270°
D2 = (2) Drillings @ 90° & 270°
D3 = (3) Drillings @ 90°, 180° & 270°
D4 = (4) Drillings @ 0°, 90°, 180° & 270°
D5 = (2) Drillings @ 180° & 270°
D6 = (3) Drillings @ 90°, 180° & 270°
Tenon Mounting
P2 = 2.38" OD x 4" tenon
P4 = 4.00" OD x 6" tenon
P5 = 5.00" OD x 6" tenon
P6 = 2.88" OD x 5" tenon
P7 = 2.38" OD x 5" tenon
P9 = Special Size (Specify)
Other Options
PC = Pole Cap
PL = Plain Top (No Cap)

GV = Galvanized
FP = Finish Painted
—OPTIONAL—
FPGV = Finish Paint over Galvanizing
VP30 = V-PRO™ 30 System
VP52 = V-PRO™ 52 System
VP53 = V-PRO™ 53 System
VP54 = V-PRO™ 54 System
VP57 = V-PRO™ 57 System
VP100 = V-PRO™ 100 System
VP105 = V-PRO™ 105 System

GV = Galvanized
BK = Black
DB = Dark Bronze
MB = Medium Bronze
AGN = Antique Green
LG = Light Gray
CB = Bronze
DG = Dark Green
ST = Sandstone
HG = Hunter Green
SG = Slate Gray
SL = Silver
SC = Special Color (Specify)

FBC = Full Base Cover
—OPTIONAL—
NC = Nut Covers
2T = Square Dart Cover
DT = Dart Round Cover

AB = With Anchor Bolts
LAB = Without Anchor Bolts

VALMONT INDUSTRIES, INC. 28800 IDA STREET, PO BOX 358 - VALLEY, NE 68064 USA 800.825.6668 VALMONTSTRUCTURES.COM

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 EXCEPT FOR "HSS" TUBE SHAPES WHICH SHALL CONFORM TO NOTE 2 BELOW.

2. STEEL PIPE SHALL CONFORM TO ASTM A-53, GRADE "B" AND TUBULAR STEEL MEMBERS SHALL CONFORM TO ASTM A-500, GRADE "B".

3. ALL WELDING SHALL BE PERFORMED WITH E70XX ELECTRODES CONFORMING TO AWS D1.1, LATEST EDITION. PROVIDE BACKING PLATES AS REQUIRED FOR FULL PENETRATION WELDS.

4. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS BY THE A.I.S.C., LATEST EDITION.

5. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS IN THE SHOP OF A FABRICATOR APPROVED BY THE LOCAL BUILDING DEPARTMENT FOR WELDING IN THE SHOP. FOR SHOPS NOT APPROVED, WELDING SHALL BE CONTINUOUSLY INSPECTED BY A LICENSED DEPUTY INSPECTOR PER SECTION 1704.2. OF THE CBC.

6. CONTINUOUS INSPECTION BY A LICENSED DEPUTY INSPECTOR IS REQUIRED FOR ALL FIELD WELDING PER SEC. 1704.3 OF THE CBC, EXCEPT MINOR ITEMS WHEN APPROVED BY THE ENGINEER AND BUILDING INSPECTOR.

7. ALL FABRICATED ITEMS SHALL BE SHOP PAINTED WITH ONE COAT OF SHOP PRIMER EXCEPT FOR ITEMS ENCASED IN CONCRETE AND SURFACES TO BE WELDED. STEEL SURFACES ENCASED IN CONCRETE SHALL BE LEFT UNPAINTED, BUT FREE FROM RUST, OIL, OR OTHER DELETERIOUS MATERIALS WHEN ENCASED. STEEL ELEMENTS, INCLUDING MACHINE BOLTS AND WASHERS WHICH ARE EXPOSED TO THE ELEMENTS SHALL BE HOT DIPPED GALVANIZED PER ASTM A-123.

8. BOLT HOLES SHALL BE 1/16 INCH LARGER THAN BOLT DIAMETER UNLESS SLOTTED HOLES ARE INDICATED IN DETAILS. BOLT HOLES SHALL BE PUNCHED OR DRILLED, BURNED HOLES ARE NOT PERMITTED.

9. BOLT HEADS OR NUTS BEARING ON SLOPING SURFACES SHALL BE EQUIPPED WITH BEVELED WASHERS.

10. MACHINE BOLTS SHALL CONFORM TO ASTM A-307 AND ANCHOR BOLTS TO ASTM F 1554 UNLESS OTHERWISE NOTED ON PLANS.

CONCRETE

1. ALL CONCRETE UNLESS OTHERWISE SHOWN ON THE PLANS SHALL BE HARDROCK CONFORMING TO ASTM C-94 WITH A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF F'c = 3,000 PSI.

2. AGGREGATE FOR THE CONCRETE SHALL CONFORM TO ASTM C-33, INCLUDING APPENDIX "X1".

3. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS FOR MIXING, PLACING, FINISHING, CURING, AND PROTECTING CONCRETE DURING UNFAVORABLE WEATHER CONDITIONS.

4. ALL REINFORCING STEEL SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A-615, GRADE 60 EXCEPT#3 BARS MAY BE GRADE 40.. ALL WELDED REINF. STEEL SHALL BE ASTM- A706. ALL BARS SHALL BE FREE OF RUST, GREASE, MILL SCALE OR ANY OTHER MATERIALS WHICH MIGHT AFFECT ITS BOND TO THE CONCRETE ALL BAR BENDS SHALL BE MADE COLD.

5. PROVIDE 3/4" CHAMFER ON ALL EXPOSED CORNERS.

6. BAR SPLICES SHALL BE LAP SPLICES w/ MIN. 40 BAR DIAM. LAP w/ AN 18" MINIMUM, (WHICHEVER IS GREATER). STAGGER LAP SPLICES OF MULTIPLE BARS, (i.e. IN CONT. FOOTING w/ 2 HORIZ. BARS TOP AND BOTTOM STAGGER TOP BAR LAP SPLICES AND STAGGER BOTTOM BAR LAP SPLICES- SPLICES DO NOT HAVE TO BE STAGGERED BETWEEN TOP AND BOTTOM BARS).

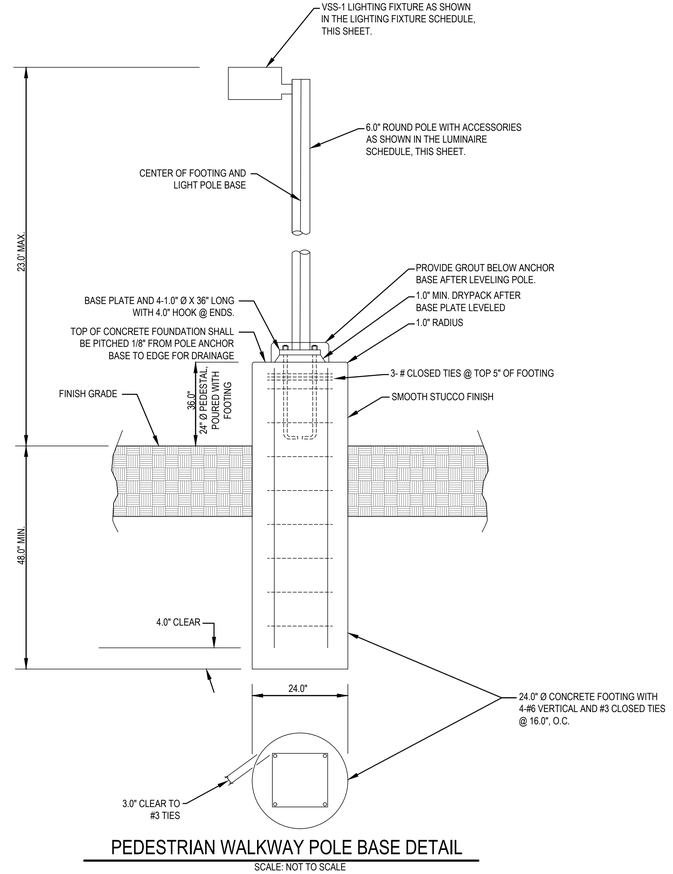
7. REINFORCING BARS SHALL HAVE THE FOLLOWING CONCRETE COVER, (UNLESS NOTED OTHERWISE IN DETAILS):
   CONCRETE POURED AGAINST EARTH.....3 INCHES
   CONCRETE BEAMS AND COLUMNS.....2 INCHES
   CONCRETE SLABS ABOVE GRADE.....1 INCH

8. DRYPACK SHALL BE MIXED IN THE PROPORTIONS OF 1 PART PORTLAND CEMENT TO 2-1/2 PARTS SAND WITH ENOUGH WATER TO PRODUCE A STIFF MIX. DRYPACK SHALL BE THOROUGHLY TAMPED INTO PLACE TO ENSURE A DENSE FINISH, FREE OF VOIDS.

9. THE SLUMP OF THE CONCRETE SHALL BE THE MINIMUM THAT IS PRACTICABLE. WHEN VIBRATORS ARE USED TO CONSOLIDATE THE CONCRETE, THE SLUMP SHALL NOT EXCEED 4 INCHES, OTHERWISE THE SLUMP SHALL NOT EXCEED 6 INCHES.

10. ALL CONCRETE SHALL BE ADEQUATELY CONSOLIDATED DURING PLACE-MENT AND ALL REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT.

11. EXCEPT WHERE INDICATED OTHERWISE, ALL REINFORCING STEEL SHALL BE BENT AND PLACED IN ACCORDANCE WITH THE "CODE OF STANDARD PRACTICE AND THE SPECIFICATIONS FOR PLACING REINFORCING STEEL" OF THE CONCRETE REINFORCING STEEL INSTITUTE.



PEDESTRIAN WALKWAY POLE BASE DETAIL

SCALE: NOT TO SCALE

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7
WALKWAY LIGHTING DETAILS

DRN. BY: DAG	DES. BY: GDK	CK'D. BY: GDK

REGISTERED PROFESSIONAL ENGINEER DANIELA HASSA CIVIL NO. 92226 STATE OF CALIFORNIA

PRINCIPAL ENGINEER — DATE: 5 May 2026
CITY ENGINEER — DATE: 5/7/2026

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061
April 28, 2026 | SHEET 14 OF 151 | DWG. NO. 2025-D-010

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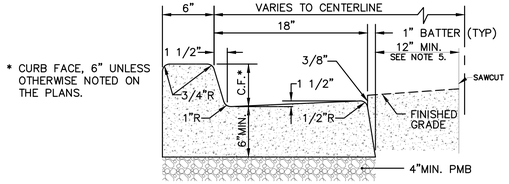
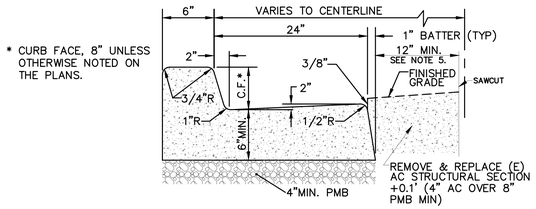


TYPE "A" CURB AND GUTTER

ALL CURB AND GUTTER SHALL BE TYPE "A" UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.



TYPE "B" CURB AND GUTTER

NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION". REFER TO DETAIL 102 FOR SPACING OF CONTROL JOINTS
2. 4" MINIMUM PMB SHALL BE PLACED UNDER CURB AND GUTTER OR CURB. COMPACT TO 95% RELATIVE DENSITY.
3. THE FACE AND TOP OF THE CURB SHALL BE TROWELLED THEN FINISHED WITH A FINE HAIR BROOM. THE GUTTER SHALL BE TROWELLED SMOOTH ON 4 INCHES NEXT TO THE CURB.
4. CONCRETE SHALL BE 520-C-2500.
5. A MINIMUM OF 12" WIDE AC PAVEMENT REPAIR PATCH IS REQUIRED WHEN CURB AND GUTTER IS PLACED ADJACENT TO EXISTING AC PAVEMENT.

CURB AND GUTTER

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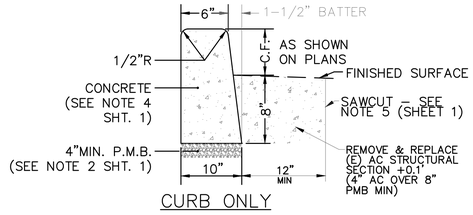
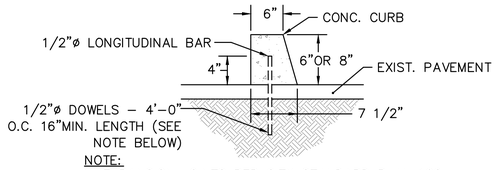


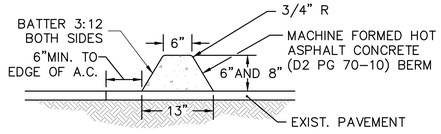
CURB ONLY



NOTE:

1. EXPANSION JOINTS PER CITY STANDARD PLAN 102.
2. WHERE APPROVED BY THE CITY ENGINEER, EPOXY RESIN MAY BE USED IN LIEU OF DOWELING.

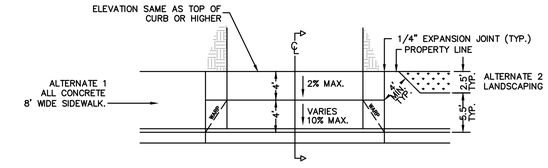
SUPERPOSED CONCRETE CURB



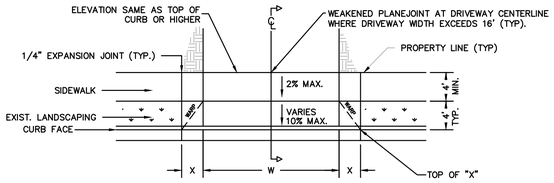
ASPHALT CONCRETE BERM

CURB AND GUTTER

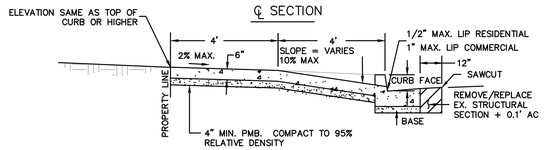
104



ALL NEW CONSTRUCTION (WITHOUT PARKWAY)



WITH EXISTING PARKWAY ONLY



RESIDENTIAL, COMMERCIAL, INDUSTRIAL DRIVEWAY

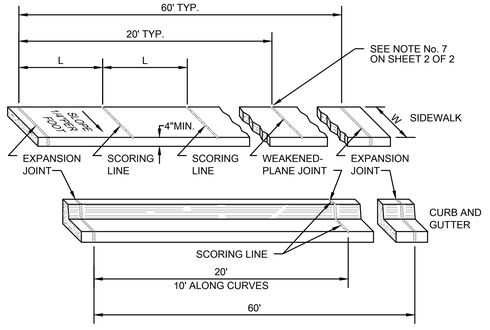
104

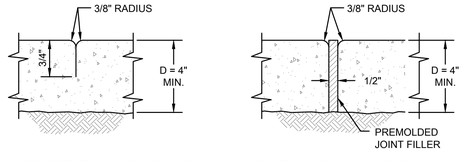
NOTES:

1. TOP OF "X" AS SPECIFIED BELOW:
   - A. 3' MIN. FROM PROPERTY LINE
   - B. 5' FROM ANY ABOVE GROUND UTILITY
   - C. 15' FROM ANY STREET TREE
   - D. RESIDENTIAL DRIVEWAYS – 5' MIN. FROM B.C/E.C. ALL OTHER DEVELOPMENT – 150' MIN. FROM B.C./E.C. TO TOP OF "X".
2. APPROACHES SERVING ANY ONE PROPERTY MUST BE SEPARATED AT LEAST 16 FEET BY FULL HEIGHT CURB.
3. RESIDENTIAL ACCESS – "X" EQUALS 3 FEET FOR 6 INCH AND 8 INCH CURB FACES. COMMERCIAL/INDUSTRIAL ACCESS – "X" EQUALS 6 FEET FOR 6 INCH AND 8 INCH CURB FACES.
4. "W" EQUALS 12 FEET MIN., FOR SINGLE-FAMILY RESIDENTIAL ACCESS: 16' MAX FOR ONE CAR GARAGE, 20' MAX. FOR TWO CAR GARAGE, 24' MAX. FOR THREE CAR GARAGE. "W" EQUALS 25 FEET MIN., 35 FEET MAX., FOR MULTI-FAMILY RESIDENTIAL AND COMMERCIAL ACCESS. "W" EQUALS 35'-40' FOR INDUSTRIAL ZONED PROPERTY.
5. CONCRETE SHALL BE 520-C-2500 PER SECTION 303-5 OF STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION.
6. SEWER LATERALS SHALL NOT BE LOCATED IN DRIVEWAY.
7. FOR CURB HEIGHT MORE THAN 8 INCHES, OBTAIN APPROVAL FROM CITY ENGINEER.

RESIDENTIAL, COMMERCIAL, INDUSTRIAL DRIVEWAY

102





NOTE:
WEAKENED-PLANE JOINTS CAN BE SAWCUT INTO THE CONCRETE PER SSPWC SECTION 302-6.5.4 AND 303-5.4.3

SIDEWALK DETAILS

102

SCORE LINE SCHEDULE

W	L
4'	4'
5'	5'
6'	5'
8'	4'
10'	5'

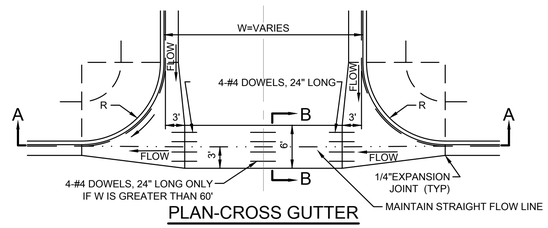
IF "W" EXCEEDS 6', ADD ADDITIONAL SCORE LINE AT 1/2 W.

NOTES

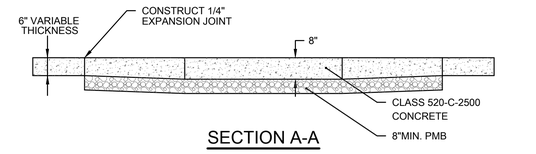
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION EXCEPT AS OTHERWISE NOTED.
2. EXPANSION JOINTS, 1/2 INCH THICK, SHALL BE PLACED AT THE B.C. AND E.C. OF ALL RETURNS, AT THE OUTER EDGES OF DRIVEWAYS INCLUDING "X" DISTANCES, AND AT UNIFORM INTERVALS SPACED NO MORE THAN 60' APART AS SHOWN FOR ALL CONCRETE FLAT WORK.
3. WEAKENED PLANE JOINTS IN SIDEWALK SHALL BE MINIMUM 3/4" IN DEPTH AND SHALL BE CONSTRUCTED AT EQUAL SPACING BETWEEN EXPANSION JOINTS IN WALKS AND GUTTERS.
4. SCORING LINES, IN CURBS SHALL BE MINIMUM 3/4" DEPTH AND CONSTRUCTED AT WEAKENED PLANE JOINTS IN THE GUTTER AND IN THE WALK AS SHOWN.
5. JOINTS IN THE CURB AND GUTTER SHALL ALIGN WITH CORRESPONDING JOINTS IN THE WALK.
6. LONGITUDINAL SCORING LINES WILL BE REQUIRED IN WALKS WIDER THAN 6 FEET.
7. SIDEWALK SHALL BE PLACED ON 4" OF FILL WITH SAND EQUIVALENT TO 20 OR HIGHER COMPACTED TO 90% MINIMUM.
8. FOR THE INSTALLATION OF ABOVE AND BELOW GROUND UTILITIES IN NEW OR EXISTING SIDEWALKS, THE SIDEWALK SHALL BE CONSTRUCTED FULL WIDTH AND TO THE NEAREST COLD JOINT OR PERPENDICULAR SCORE MARK.
9. REPAIR ANY DAMAGED EXISTING SIDEWALK ADJACENT TO NEW SIDEWALK.

SIDEWALK DETAILS

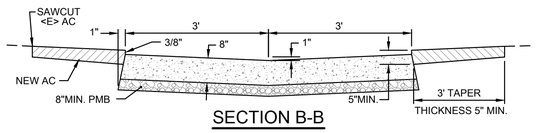
101



PLAN-CROSS GUTTER



SECTION A-A



SECTION B-B

CROSS GUTTER

101

NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH SUBSECTION 303-5 OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION EXCEPT AS OTHERWISE NOTED.
2. BASE MATERIAL, 8" THICK SHALL BE PLACED UNDER ALL CONCRETE. COMPACT TO 95% REL. DENSITY.
3. DOWELS SHALL CONSIST OF NO.4 REBAR ASTM A615 GRADE 40, 24 INCHES LONG AND SET 18 INCHES CENTER TO CENTER EXTENDING EQUAL DISTANCES INTO THE ADJOINING SLABS. A DOWEL CAP MUST FIT SNUGLY OVER THE DOWEL ON ONE END TO PREVENT ADHESION TO THE CONCRETE AND TO PERMIT HORIZONTAL MOVEMENT OF THE BAR.
4. PARKING LOT CROSS GUTTER SHALL BE 3' WIDE, MAINTAIN 1" FALL TO CENTER LINE.
5. CROSS GUTTERS SHALL NOT BE USED UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
6. FOR JOINT SPACING SEE STANDARD DETAIL No. 102.

CROSS GUTTER

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

CURB, GUTTER, & SIDEWALK STANDARD DETAILS

DRN. BY: DAG	DES. BY: GDK	CK'D. BY: GDK

PRINCIPAL ENGINEER — 5 May 2026 DATE

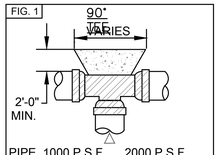
CITY ENGINEER — 5/7/2026 DATE

REGISTERED PROFESSIONAL ENGINEER DANIELA RASA NO. 92228 CIVIL STATE OF CALIFORNIA

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
April 28, 2026	SHEET 15 OF 151	DWG. NO. 2025-D-010

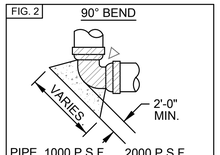
006

FIG. 1 — 90° TEE



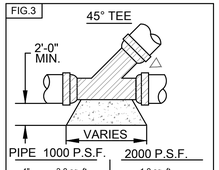
PIPE	1000 P.S.F.	2000 P.S.F.
4"	4.0 sq. ft.	2.0 sq. ft.
6"	8.0 sq. ft.	4.0 sq. ft.
8"	13.0 sq. ft.	7.0 sq. ft.
10"	22.0 sq. ft.	11.0 sq. ft.
12"	31.0 sq. ft.	15.0 sq. ft.
* 14"	42.0 sq. ft.	21.0 sq. ft.
* 16"	54.0 sq. ft.	27.0 sq. ft.

FIG. 2 — 90° BEND



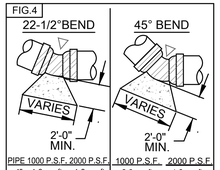
PIPE	1000 P.S.F.	2000 P.S.F.
4"	5.0 sq. ft.	3.0 sq. ft.
6"	11.0 sq. ft.	5.0 sq. ft.
8"	19.0 sq. ft.	9.0 sq. ft.
10"	30.0 sq. ft.	15.0 sq. ft.
12"	43.0 sq. ft.	22.0 sq. ft.
* 14"	59.0 sq. ft.	29.0 sq. ft.
* 16"	76.0 sq. ft.	38.0 sq. ft.

FIG.3 — 45° TEE



PIPE	1000 P.S.F.	2000 P.S.F.
4"	3.0 sq. ft.	1.0 sq. ft.
6"	6.0 sq. ft.	3.0 sq. ft.
8"	10.0 sq. ft.	5.0 sq. ft.
10"	16.0 sq. ft.	8.0 sq. ft.
12"	23.0 sq. ft.	12.0 sq. ft.
* 14"	32.0 sq. ft.	16.0 sq. ft.
* 16"	41.0 sq. ft.	21.0 sq. ft.

FIG.4 — 22-1/2°BEND / 45° BEND



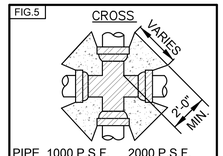
PIPE	1000 P.S.F.	2000 P.S.F.	1000 P.S.F.	2000 P.S.F.
4"	1.0 sq. ft.	1.0 sq. ft.	3.0 sq. ft.	1.0 sq. ft.
6"	3.0 sq. ft.	1.5 sq. ft.	6.0 sq. ft.	3.0 sq. ft.
8"	5.0 sq. ft.	2.5 sq. ft.	10.0 sq. ft.	5.0 sq. ft.
10"	8.0 sq. ft.	4.0 sq. ft.	16.0 sq. ft.	8.0 sq. ft.
12"	12.0 sq. ft.	6.0 sq. ft.	23.0 sq. ft.	12.0 sq. ft.
*14"	16.0 sq. ft.	8.0 sq. ft.	32.0 sq. ft.	16.0 sq. ft.
*16"	21.0 sq. ft.	10.0 sq. ft.	41.0 sq. ft.	21.0 sq. ft.

* ENGINEER TO DETERMINE CONFIGURATION
◁ DIRECTION OF THRUST

THRUST BLOCKING

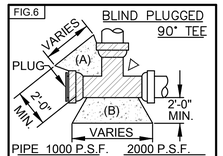
006

FIG.5 — CROSS



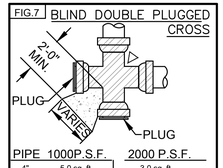
PIPE	1000 P.S.F.	2000 P.S.F.
4"	2.0/ea. sq. ft.	1.0/ea. sq. ft.
6"	4.0/ea. sq. ft.	2.0/ea. sq. ft.
8"	7.0/ea. sq. ft.	3.0/ea. sq. ft.
10"	11.0/ea. sq. ft.	5.0/ea. sq. ft.
12"	18.0/ea. sq. ft.	9.0/ea. sq. ft.
*14"	21.0/ea. sq. ft.	10.0/ea. sq. ft.
*16"	27.0/ea. sq. ft.	13.0/ea. sq. ft.

FIG.6 — BLIND PLUGGED 90° TEE



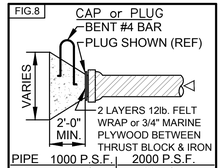
PIPE	1000 P.S.F. (A)	(B)	2000 P.S.F. (A)	(B)
4"	3.0-3.0 sq. ft.		1.0-1.0 sq. ft.	
6"	5.0-5.0 sq. ft.		3.0-3.0 sq. ft.	
8"	9.0-9.0 sq.ft.		5.0-5.0 sq. ft.	
10"	15.0-15.0 sq. ft.		8.0-8.0 sq. ft	
12"	21.0-21.0 sq.ft.		11.0-11.0 sq. ft.	
*14"	29.0-29.0 sq. ft.		15.0-15.0 sq. ft.	
*16"	38.0-38.0 sq. ft.		19.0-19.0 sq. ft.	

FIG.7 — BLIND DOUBLE PLUGGED CROSS



PIPE	1000P.S.F.	2000 P.S.F.
4"	5.0 sq. ft.	3.0 sq. ft.
6"	11.0 sq. ft.	5.0 sq. ft.
8"	19.0 sq. ft.	9.0 sq. ft.
10"	30.0 sq. ft.	15.0 sq. ft.
12"	43.0 sq. ft.	22.0 sq. ft.
*14"	59.0 sq. ft.	29.0 sq. ft.
*16"	76.0 sq. ft.	38.0 sq. ft.

FIG.8 — CAP or PLUG BENT #4 BAR PLUG SHOWN (REF)



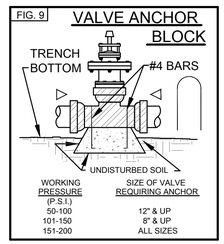
PIPE	1000 P.S.F.	2000 P.S.F.
4"	4.0 sq. ft.	2.0 sq. ft.
6"	8.0 sq. ft.	4.0 sq. ft.
8"	14.0 sq. ft.	7.0 sq. ft.
10"	22.0 sq. ft.	11.0 sq. ft.
12"	30.0 sq. ft.	15.0 sq. ft.
*14"	42.0 sq. ft.	21.0 sq. ft.
*16"	55.0 sq. ft.	27.0 sq. ft.

* ENGINEER TO DETERMINE CONFIGURATION
◁ DIRECTION OF THRUST

THRUST BLOCKING

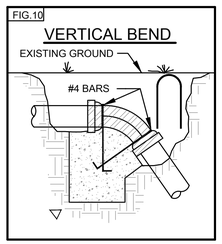
006

FIG. 9 — VALVE ANCHOR BLOCK



WORKING PRESSURE (P.S.I.)	SIZE OF VALVE REQUIRING ANCHOR
50-100	12" & UP
101-150	8" & UP
151-200	ALL SIZES

FIG.10 — VERTICAL BEND



NOTE: SHAPE AND DIMENSION OF FIGS. 9 & 10 ANCHOR BLOCKS TO BE DETERMINED BY THE ENGINEER

FIRE HYDRANT BURY THRUST BLOCK

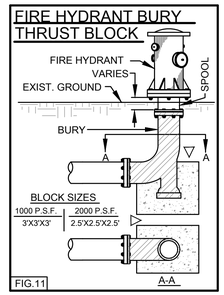
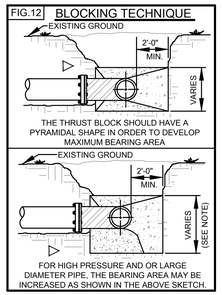


FIG.11

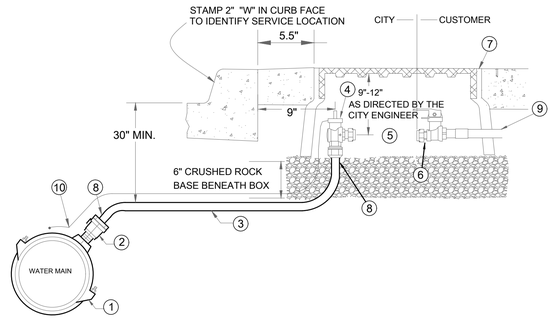
FIG.12 — BLOCKING TECHNIQUE



◁ DIRECTION OF THRUST

THRUST BLOCKING

009



LEGEND

1. SERVICE SADDLE DOUBLE STRAP, INSTALLED PER MANUFACTURER'S RECOMMENDATIONS: FORD 202B SERIES OR JONES J979 (DIP, ACP), FORD 202BS SERIES OR JONES J969 (PVC), ROMAC 202N–H SERIES (HDPE).
2. CORPORATION STOP W/STAINLESS STEEL INSERTS: FORD FB1100–4–NL–CTS OR JONES 1935
3. 1 INCH ø HDPE PIPE. (CTS). PER NOTE G ON SHEET 3.
4. ANGLE BALL METER VALVE W/ 1"x1" ANGLE METER STOP AND STAINLESS STEEL INSERTS FORD BA–43–444W–NL–CTS OR JONES 1963W
5. METER, TO BE FURNISHED BY CITY.
6. CUSTOMER SERVICE VALVE: FORD B13–444W–NL (HANDLE W/ HB–34) OR JONES 1908.
7. METER BOX: CHRISTY FIBRELITE FL12TBOX12 OR FL12TBOX18 AS DIRECTED BY THE CITY ENGINEER & FL12D LID (GREY POLYMER LID).
8. USE COMPRESSION FITTING WITH STAINLESS STEEL INSERTS TO CONNECT TO 1" ø HDPE. ANY RISER ABOVE GROUND SHALL BE TYPE K COPPER.
9. CUSTOMER SERVICE LINE PER PLUMBING CODE. ALL ADJUSTMENTS TO CUSTOMER SERVICE LINE SHALL BE MADE OUTSIDE BOX.
10. LOCATING WIRE PER NOTE I ON SHEET 3.

1" WATER SERVICE CONNECTION WITH 3/4" OR 1" METER

009

GENERAL NOTES

A. THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO THE CENTERLINE OF THE STREET FROM THE WATER MAIN TO THE WATER METER.

B. THE METER WILL BE FURNISHED BY THE CITY AND INSTALLED AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL CONNECT SERVICE TO THE CUSTOMER SERVICE VALVE. FOR CAPITAL IMPROVEMENT PROJECTS, THE METER WILL BE FURNISHED AND PAID FOR BY THE CITY AND INSTALLED BY THE CONTRACTOR.

C. ALL MATERIALS SPECIFIED ON THIS STANDARD SHALL BE AS SHOWN OR APPROVED EQUAL AUTHORIZED BY THE CITY ENGINEER.

D. ALL CITY COPPER FITTINGS SHALL COMPLY WITH CALIFORNIA ASSEMBLY BILL 1953 (LEAD FREE FIXTURES).

E. RUBBER WASHERS REQUIRED AT METER COUPLINGS.

F. FOR EXISTING SERVICES, CONTRACTOR SHALL INSTALL CUSTOMER SERVICE VALVE AS SHOWN AND ADJUST CUSTOMER SERVICE LINE OUTSIDE BOX TO CONNECT TO METER.

G. HDPE SDR9 (5100 SERIES) PIPE SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF THE LATEST REVISIONS FOR THE FOLLOWING STANDARDS: AWWA C-901, ASTM D2737, ASTM D3350, NATIONAL SANITATION (NSF#14 & 61), INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, UNIFORM PLUMBING CODE, PLASTIC PIPE INSTITUTE, PLASTIC PIPE & FITTING INSTITUTE, PLASTIC PIPE & FITTINGS ASSOCIATION.

H. INSERT STIFFENERS SHALL BE USED AT ALL HDPE TUBING CONNECTIONS. INSERTS SHALL BE SOLID 304 TUBULAR STAINLESS STEEL, DIMPLED & FLANGED TO RETAIN REPLACEMENT WITHIN THE SERVICE LINE & COMPATIBLE FOR USE WITH OTHER FITTINGS.

I. LOCATING WIRE SHALL BE ATTACHED TO THE EXISTING LOCATING WIRE ON WATERMAIN OR TO THE SERVICE SADDLE WITH AN EXTRA STAINLESS STEEL 5/16" NUT (IF EXISTING TRACING WIRE CANNOT BE LOCATED), EXTEND ALONG THE SERVICE LATERAL AND INTO THE METER BOX. LOCATING WIRE SHALL BE PLASTIC COATED 10 GAUGE SOLID COATED COPPER. EXISTING LOCATING WIRE SHALL NOT BE SPLICED.

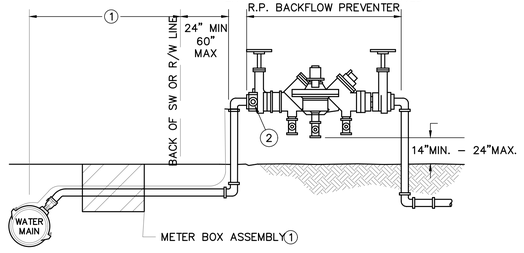
J. NO DIRECT TAPS ON THE MAIN LINE ARE ALLOWED.

K. WHEN CONNECTING TO CUSTOMER SERVICE LINE, USE COPPER FITTING (SOLDERED) IF EXISTING CUSTOMER SERVICE LINE IS COPPER, USE COMPRESSION COUPLING IF EXISTING CUSTOMER LINE IS GALVANIZE OR STEEL PIPE, OR USE "GLUE" IF EXISTING CUSTOMER SERVICE LINE IS PVC.

WATER SERVICE CONNECTION GENERAL NOTES

010

VENTURA COUNTY ENVIRONMENTAL HEALTH APPROVED R.P. BACKFLOW PREVENTER



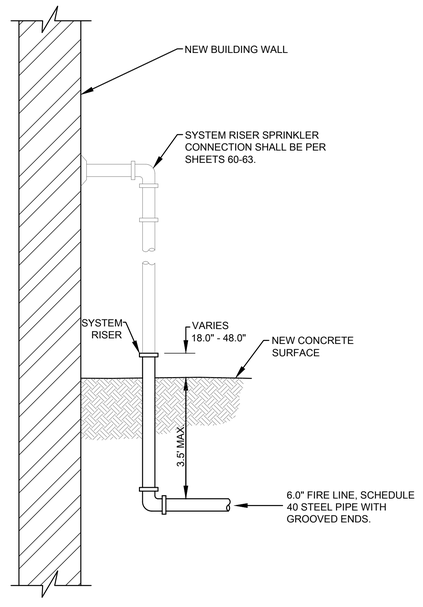
LEGEND

1. CONSTRUCT SERVICE LINE AND WATER METER ASSEMBLY PER STANDARD DETAIL 009.
2. 2" MINIMUM BRASS NIPPLE.

NOTES

1. SEE CITY STANDARD DETAIL 001 – GENERAL WATER NOTES, 024 – AMI ANTENNA INSTALLATION
2. WHEN INSTALLED IN LOCATIONS SUBJECT TO DAMAGE FROM VEHICLES, BOLLARDS SHALL BE INSTALLED AS DIRECTED BY CITY ENGINEER.
3. ABOVE GROUND ASSEMBLY SHALL BE PAINTED BY CONTRACTOR WITH ONE COAT PRIMER AND TWO COATS HUNTERGREEN ENAMEL.
4. ALL IRRIGATION AND COMMERCIAL SERVICES REQUIRE BACKFLOW PREVENTERS. ALL RESIDENTIAL METERS LARGER THAN 1–INCH REQUIRE BACKFLOW PREVENTERS.

1.0" BACKFLOW ASSEMBLY INSTALLATION



FIRE PROTECTION SYSTEM RISER DETAIL

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

WATER STANDARD DETAILS

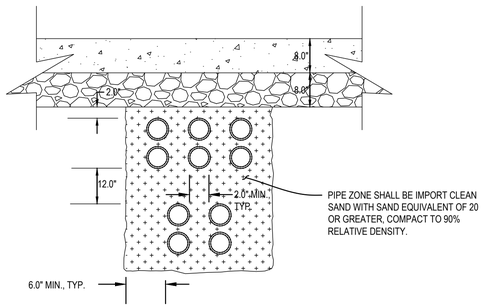
DRN. BY: DAG	DES. BY: GDK	CK'D. BY: GDK

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

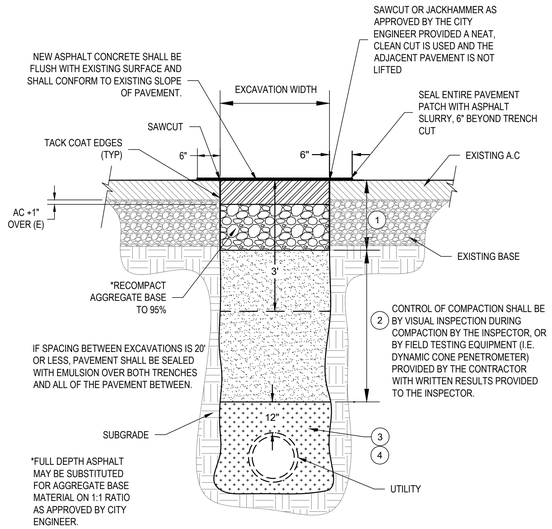
REGISTERED PROFESSIONAL ENGINEER DANIELA HASA NO. 92225 CIVIL STATE OF CALIFORNIA

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
April 28, 2026	SHEET 16 OF 151	DWG. NO. 2025-D-010



DRY UTILITY BURIAL DETAIL

112



BACKFILL ONLY FOR SMALL RECTANGULAR EXCAVATIONS NO LARGER THAN 32 S.F.

TRACING WIRE FOR LOCATING

TRENCH BACKFILL/ AC REPAIR

112

CONSTRUCTION NOTES

LEGEND

1. STRUCTURAL SECTION - MATCH EXISTING AC THICKNESS + 1"; MATCH EXISTING BASE THICKNESS. MINIMUM SHALL BE 4" AC OVER 8" PMB. FOR P.C.C. PAVING, MINIMUM THICKNESS IS 8" (EXCEPT AC OVERLAY ON P.C.C. SHALL MATCH EXISTING).
2. BACKFILL - NATIVE OR IMPORT, COMPACTED TO 90% RELATIVE DENSITY. OR 100-E-100 SLURRY AS APPROVED BY THE CITY ENGINEER. COMPACTION TEST REPORT FROM A CERTIFIED SOIL LAB MUST BE PROVIDED TO CITY INSPECTOR PRIOR TO AC OR PCC PAVING.
3. PIPE ZONE - IMPORT CLEAN SAND WITH SAND EQUIVALENT OF 20 OR GREATER. COMPACT TO 90% RELATIVE DENSITY. SEE STANDARD DETAIL 113 FOR UTILITY OR STRUCTURE.
4. IF SAND EQUIVALENT IS 20 OR GREATER, JETTING MAY BE USED IN PIPE ZONE ONLY WHEN APPROVED BY THE CITY ENGINEER.
5. STREET SHALL BE SAWCUT. IF SAWCUT IS DAMAGED AFTER UTILITY IS INSTALLED AND BACKFILL IS COMPLETE, THE STREET SHALL BE RE-SAWCUT SO THAT A CLEAN EDGE REMAINS FOR PAVING. SAWCUT A MINIMUM OF 1/2 PAVEMENT THICKNESS. FOR P.C.C. OVERLAYED BY ASPHALT, SAWCUT THICKNESS OF P.C.C. PLUS A.C. THICKNESS. ALL ASPHALTIC CONCRETE JOINTS SHALL BE SEALED WITH ASPHALTIC EMULSION, 6" MINIMUM EITHER SIDE BEFORE AND AFTER PAVEMENT IS PLACED. JOINTS OF NEW ASPHALTIC CONCRETE SHALL BE FLUSH WITH THE EXISTING PAVEMENT.
6. RECENTLY RESURFACED/MORATORIUM STREETS: FOR PERPENDICULAR TRENCHES, SEAL PAVEMENT WITH SLURRY SEAL CONSISTING OF MIX DESIGN APPROVED BY CITY ENGINEER, OVER ENTIRE TRENCH WIDTH PLUS AN ADDITIONAL 6' ON EITHER SIDE OF TRENCH CENTERLINE. FOR LONGITUDINAL TRENCHES,MILL AND FILL ENTIRE AREA ADJACENT TO TRENCH AND EXTEND TO NEXT LANE LINE OR CURB/GUTTER AS APPLICABLE (REPAIR ENTIRE LANES THAT ARE IMPACTED BY TRENCH CUT) UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. PAVEMENT SHALL BE CONTINUOUS WITH JOINTS ONLY WHERE NEW AND EXISTING ASPHALT/CONCRETE JOIN.
7. THE CONTRACTOR SHALL REPLACE TRAFFIC STRIPING, STREET MARKINGS, AND CURB MARKINGS REMOVED OR DAMAGED BY THE WORK WITH LIKE KIND MATERIALS TO MATCH EXISTING STRIPING.
8. FOR MULTIPLE TRENCH REPAIR LOCATIONS ADJACENT TO EACH OTHER, DISTANCE BETWEEN REPAIRS SHALL BE NO LESS THAN 4' OTHERWISE AREA BETWEEN TRENCHES SHALL BE A PART OF THE REPAIR. FOR MULTIPLE LOCATIONS LESS THAN 32 SQ FT IN SIZE. THE PAVEMENT SHALL BE SEALED WITH A TYPE II SLURRY SEAL TO INCLUDE THE FULL WIDTH (+1') AND LENGTH (+1') OF ALL TRENCH CUTS.
9. TRENCH REPAIR MUST BE UNIFORM AND SQUARE. ZIG ZAG TRENCHES ARE NOT ALLOWED.

NOTE:
TRENCH BACKFILL DETAILS ARE APPLICABLE FOR ALL UNDERGROUND UTILITY INSTALLATIONS INCLUDING, WITHOUT LIMITATION; TELECOMMUNICATIONS (CABLE, T.V., PHONE, ETC.), GAS, ELECTRIC, AND ALL UTILITIES INSTALLING CONDUITS WITHIN CITY STREETS WITHOUT A FRANCHISE AGREEMENT WITH THE CITY.

TRENCH BACKFILL

112

GENERAL NOTES

SPECIFICATIONS:
ALL BACKFILL SHALL BE PLACED AND TESTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION EXCEPT AS OTHERWISE NOTED HEREON.

MAXIMUM LIFTS*

A. MECHANICAL COMPACTION

LIFT	EQUIPMENT	NOTES
3.00'	HYDROHAMMER	(NOT TO BE USED WITHIN 4' OF ANY PIPE)
1.50'	VIBRATORY	(NOT TO BE USED WITHIN 2' OF ANY PIPE)
1.00'	ROLLING STOCK	WALK BEHIND AND MINI.
.67' = 6"	HAND TAMPER	
.33' = 4"	HAND VIBRATORY PLATE	

B. HYDRAULIC DENSIFICATION

2.00'	JETTING UNDER PRESSURE	(ONLY USED WHEN APPROVED BY CITY ENGINEER)

NOTE: EITHER FILL OR BEDDING MUST BE FREE DRAINING.

*A LIFT IS ONE LAYER OF MATERIAL PLACED, PROCESSED, AND COMPACTED AS A UNIT AT OPTIMUM MOISTURE CONTENT.

CONTROL OF COMPACTION
VISUAL INSPECTION AND SOIL TESTING AS REQUIRED BY THE INSPECTOR. COMPACTION TEST REPORT FROM CERTIFIED SOIL LAB IS REQUIRED FOR ALL WORK COMPLETED WITHOUT CITY INSPECTOR VISUAL PRIOR TO AC OR PCC RESURFACING

ROCK IN BACKFILL
SUFFICIENT SAND AND FINES MUST BE MIXED INTO THE BACKFILL TO FILL VOIDS WHEN SOIL CONTAINS ROCKS. MAXIMUM SIZE ROCK IN FILL IS 6 INCHES, BROKEN PCC AND AC IS ALLOWED IN NATIVE BACKFILL ONLY, WITH 6 INCH MAXIMUM SIZE.

LABORATORY MAXIMUM DENSITY

METHOD 1: LABORATORY MAXIMUM DENSITY OF SOIL SHALL BE DETERMINED BY ASTM D1557-91. (COMPACTION EFFORT EQUALS 33,750 FT.-LBS. PER CUBIC FOOT.)

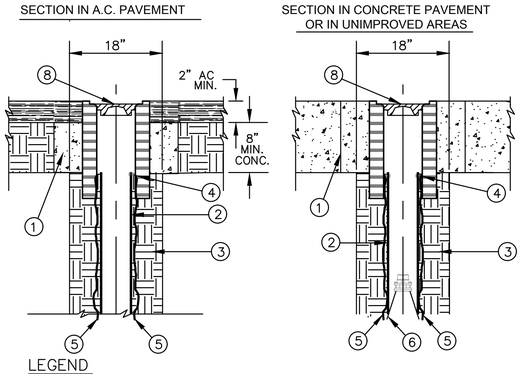
METHOD 2: LABORATORY MAXIMUM DENSITY OF BASE AND SUB-BASE MATERIALS SHALL BE DETERMINED BY TEST METHOD NO. CALIF. 216, METHOD A.

SAND EQUIVALENT
SAND EQUIVALENT SHALL BE DETERMINED BY TEST METHOD NO. CA. 217.

FIELD DENSITY
FIELD DENSITY OF SOIL SHALL BE DETERMINED BY ASTM D1556-00, USING THE BASE PLATE AND MAKING SUITABLE ADJUSTMENTS FOR VOLUMES OF ROCKS IN THE TEST HOLE, OR BY TEST METHOD NO. CALIF. T-231-B, PARTS A-E AND G FOR NUCLEAR DEVICES.
THE WORDS "RELATIVE COMPACTION" OR "RELATIVE DENSITY" SHALL MEAN THE RATIO OF THE FIELD DENSITY TO THE LABORATORY MAXIMUM DENSITY EXPRESSED IN PERCENT.

TRENCH BACKFILL

004

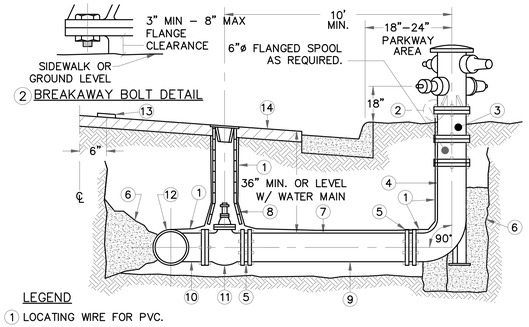


LEGEND

1. CONCRETE RING OR CONCRETE PAVEMENT SEE TOP VIEW, SHEET 2/2.
2. 8" O.D., SDR 35 PIPE DIAMETER (SEE NOTE 7, SHEET 2/2).
3. NATIVE BACKFILL AS REQUIRED TO MATCH EXISTING (COMPACT TO 90% RELATIVE COMPACTION).
4. 5/16" GALVANIZED HEX. BOLT AND NUT.
5. 10 GAUGE COATED COPPER LOCATION WIRE TO BE USED WITH NON-METALLIC WATER PIPE. WIRE TO RUN ALONG (OUTSIDE) VALVE STACK THE ENTIRE LENGTH. CONNECT 10 GAUGE WIRE TO 5/16" BOLT ON OUTSIDE OF VALVE STACK
6. VALVE STACK TO BE ATTACHED TO VALVE WITH PIPE TAPE. 1/2" ° WEEP HOLES ON STACK AT VALVE TO BE PROVIDED.

VALVE BOX ASSEMBLY

020



LEGEND

1. LOCATING WIRE FOR PVC.
2. 6–HOLLOW BREAKWAY BOLTS WITH NUTS ON UPPER FLANGE (SEE DETAIL 2).
3. 6" DIAMETER FLANGED BREAKOFF "SPOOL". LOCATE FRACTURE LINE ABOVE HARDSCAPE.
4. 6"x36" BURY WITH FLANGE RISER AND MECHANICAL JOINT OR AS APPROVED BY CITY ENGINEER.
5. MECHANICAL JOINT WITH MJ RETAINER GLANDS.
6. POUR THRUST BLOCK AGAINST UNDISTURBED SOIL PER STD. DET. 006.
7. PIPELINE PROTECTIVE COVERING PER DETAIL 001.
8. VALVE BOX AND COVER PER STANDARD DETAIL 004.
9. 6" D.I.P. OR PVC.
10. HYDRANT TEE U–590, AS MANUFACTURED BY U.S. PIPE FOUNDRY CO. OR AS APPROVED BY CITY ENGINEER. OTHERWISE HYDRANT TEE SHALL BE MECH. TYTON JOINT x 6" FLG. TEE.
11. 6" FLANGE x MECH. JOINT RESILIENT WEDGE GATE VALVE.
12. WATER MAIN.
13. BLUE REFLECTOR SEE SHEET 2.
14. FINISHED PAVEMENT.
15. FIRE HYDRANT BREAKOFF CHECK VALVE. SEE SHEET 2 OF 4.

FIRE HYDRANT

020

GENERAL FIRE HYDRANT NOTES

1. 3–WAY HYDRANTS SHALL BE USED UNLESS OTHERWISE NOTED AND SHALL HAVE ONE 2–1/2" UPPER HOSE OUTLET AND TWO 4" LOWER STEAMER OUTLET.
2. FIRE HYDRANT AND BURY SHALL BE CALIFORNIA TYPE "WET BARREL" HYDRANT CONFORMING TO AWWA AND SHALL BE SELECTED FROM THE FOLLOWING LIST OR AS APPROVED BY CITY ENGINEER:
   – AVK SERIES 2470 (RESIDENTIAL) 2490 (COMMERCIAL) OR 2420 (INDUSTRIAL)
   – JONES 4040 OR 4065 SERIES
   – CLOW SERIES 850 (RESIDENTIAL) 860 (COMMERCIAL) OR 865 (INDUSTRIAL)
3. FIRE HYDRANTS SHALL BE LOCATED 3' MIN. – 5' MAX. DISTANCE BEYOND THE CURB RETURN. FOR 25' AND 35' CURB RADII, LOCATE HYDRANT 3' TO 4' INSIDE CURB RETURN. IF LOCATED AT OTHER THAN A STREET INTERSECTION, HYDRANTS SHALL BE LOCATED AT PROPERTY LINE EXTENSIONS, OR AS NOTED ON PLANS.
4. ALL FIRE HYDRANTS ARE TO BE ROTATED AT THE TIME OF INSTALLATION SO THAT HYDRANT OUTLETS ARE POSITIONED 45° SYMMETRICALLY TO A THEORETICAL CENTER LINE PERPENDICULAR TO THE NEAREST VEHICLE ROADWAY OR PATH.
5. FIRE HYDRANTS SHALL BE PAINTED WITH TWO COATS OF SAFETY YELLOW PAINT "PPG AMERSHIELD VOC" OR AS APPROVED BY CITY ENGINEER.
6. A SINGLE BI–DIRECTIONAL BLUE REFLECTOR SHALL BE INSTALLED 6" FROM CENTERLINE OF STREET ADJACENT TO FIRE HYDRANT.
7. HYDRANT TO HAVE BRASS OR CAST IRON CAPS (NO PLASTIC). CONTRACTOR SHALL NOT REMOVE CHAINS.
8. CONTRACTOR SHALL PROVIDE A CERTIFIED FLOW TEST FOR EACH HYDRANT – SEE STD. DETAIL 001.
9. IF NOTED, 2–WAY HYDRANTS SHALL BE USED IN RESIDENTIAL AREAS OR AS SPECIFIED BY THE CITY ENGINEER. 2 WAY HYDRANTS SHALL HAVE ONE 2 1/2" UPPER HOSE OUTLET AND ONE 4" LOWER STEAMER OUTLETS.

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7
CONSTRUCTION DETAILS

DRN. BY: DAG	DES. BY: GDK	CK'D. BY: GDK

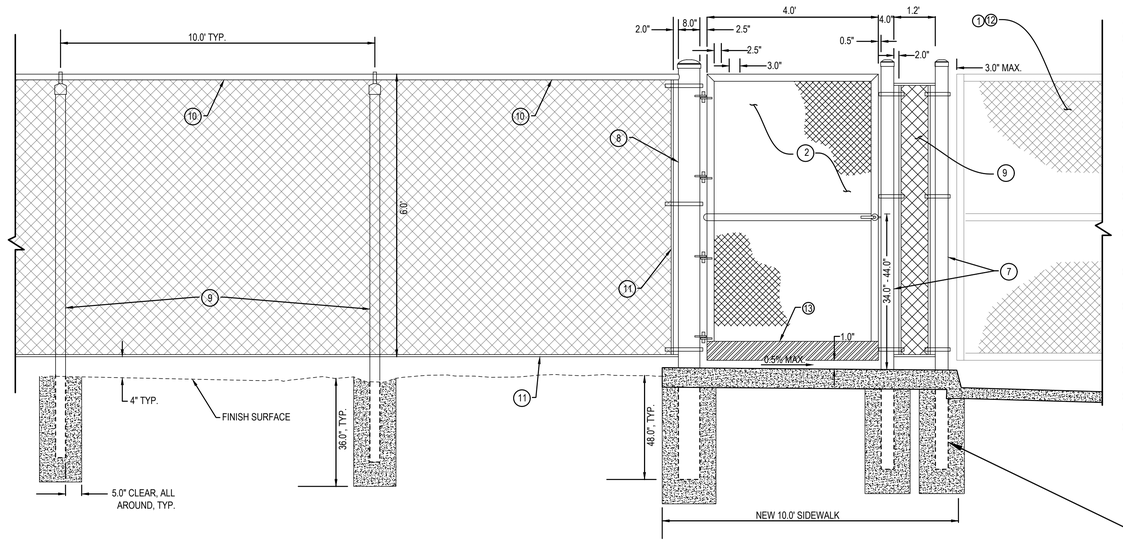
PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

April 28, 2026 | SHEET 17 OF 151 | DWG. NO. 2025-D-010

REGISTERED PROFESSIONAL ENGINEER DANIELA HASA NO. 92225 CIVIL STATE OF CALIFORNIA

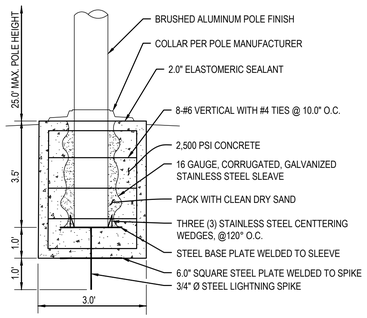


MAN GATE AND CHAIN LINK FENCE PANEL DETAIL

NOT TO SCALE

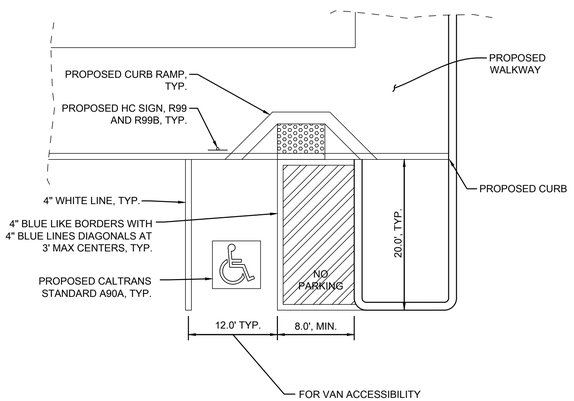
NOTE:
ACCESSIBLE MAN GATE SHALL BE IN COMPLIANCE WITH THE 2022 CBC CHAPTER 11B, WITH THE FOLLOWING SECTIONS:

1. GATE CLEAR OPENING PER CBC 11B-404.2.3.
2. GATE HARDWARE PER CBC 11B-404.2.7.
3. GATE THRESHOLD PER CBC 11B-404.2.5.
4. GATE CLOSERS & OPERATING FORCE PER CBC 11B-404.2.8 AND 11B-404.2.9.
5. MANEUVERING CLEARANCE PER CBC 11B-404.2.4.
6. GROUND SURFACE PER CBC 11B-302 AND 11B-403.3.

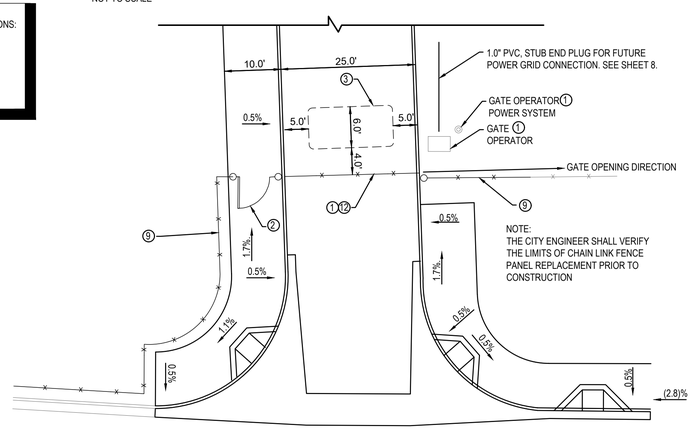


NOTE:
MAXIMUM FLAG SIZE: 5.0' X 8.0'

FLAGPOLE CONCRETE FOOTING DETAIL



DISABLED PERSONS PARKING SYMBOL, LEGEND AND MARKINGS DETAIL

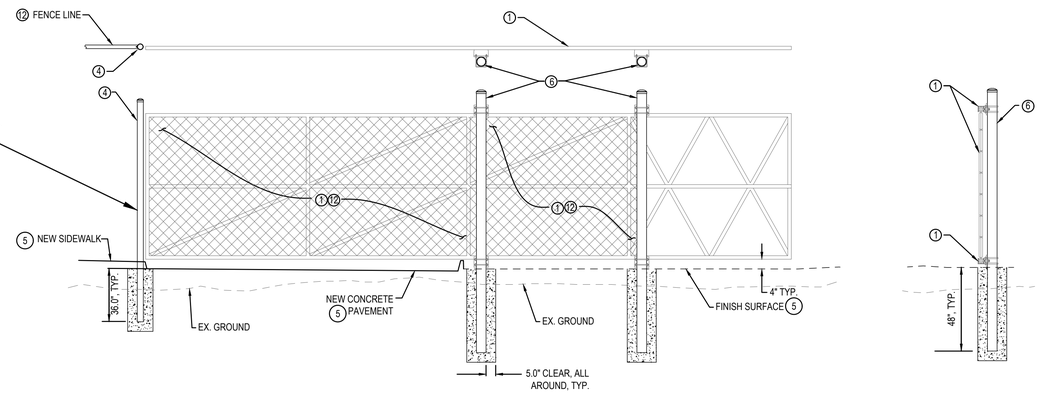


EXISTING CANTILEVER GATE RELOCATION DETAIL

NOT TO SCALE

CONSTRUCTION NOTES

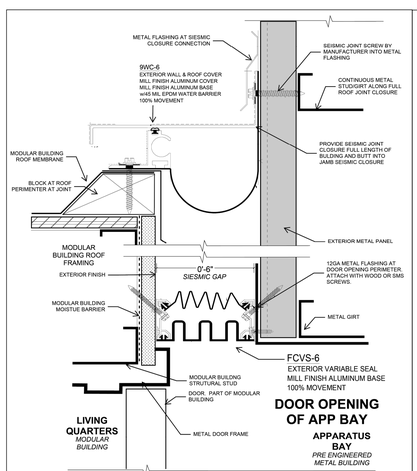
1. CONTRACTOR SHALL REMOVE AND STORE EXISTING GATE SYSTEM (CANTILEVER GATE, FRAME, ROLLERS, FENCE HARDWARE, OPERATOR, OPERATOR PAD AND POWER, ACCESS CONTROL COMPONENTS, KEYPAD AND PAD) PER PLAN AND SPECIFICATIONS. PROTECT AND STORE IN SECURE, DRY LOCATION. ALL WIRING, HARDWARE, AND CONDUIT TERMINATIONS SHALL BE CLEARLY LABELED AND PRESERVED FOR REINSTALLATION.
2. THE CONTRACTOR SHALL CONSTRUCT A MAN GATE STEEL DOOR FRAME WITH MESH AND POST HINGES, PER PLAN AND THE SPECIFICATION. THE STEEL DOOR FRAME SHALL BE 2.0" DIAMETER, GALVANIZED STEEL, 11-GAUGE. THE CHAIN LINK MESH SHALL BE 2-INCH, GALVANIZED STEEL, 9-GAUGE. POST HINGES SHALL BE 2-3/8" GALVANIZED STEEL.
3. THE CONTRACTOR SHALL INSTALL NEW DETECTOR LOOP PER THE GATE OPERATOR MANUFACTURER'S RECOMMENDATIONS AND PER THESE PLANS AND SPECIFICATIONS. THE CITY PUBLIC WORKS INSPECTOR SHALL VERIFY THE LOCATION OF THE NEW DETECTOR LOOP PRIOR TO INSTALLATION.
4. THE CONTRACTOR SHALL REMOVE AND RECONSTRUCT FENCE POST WITH U-BOLTS, FOOTING, AND FENCE PANELS, PER PLAN AND THE SPECIFICATION, AND PER MAN GATE AND FENCE PANEL DETAIL SHOWN ON THIS SHEET. FENCE POST SHALL BE 4" DIAMETER, GALVANIZED STEEL, 11-GAUGE. U-BOLT SHALL BE 5/8" GALVANIZED STEEL. CONCRETE FOOTING SHALL BE USING PORTLAND CEMENT CONCRETE TYPE 500-C-2500. THE FENCE PANELS SHALL 2-INCH MESH CHAIN LINK FENCE, GALVANIZED STEEL, 9-GAUGE. THE REMOVAL SHALL INCLUDE POST, AND CONCRETE FOOTING, AS DIRECTED BY THE CITY ENGINEER.
5. THE CONTRACTOR SHALL PROTECT ALL NEWLY CONCRETE SURFACES AND IMPROVEMENTS, FROM DAMAGE. THE CONTRACTOR SHALL REMOVE AND REPLACE ALL CONCRETE AND IMPROVEMENTS DAMAGED PRIOR TO ACCEPTANCE.
6. THE CONTRACTOR SHALL REMOVE AND RECONSTRUCT FENCE POST AND FOOTING, PER PLAN AND THE SPECIFICATION. FENCE POST SHALL BE 8" DIAMETER, GALVANIZED STEEL, 22-GAUGE. CONCRETE FOOTING SHALL BE USING PORTLAND CEMENT CONCRETE TYPE 500-C-2500. THE REMOVAL SHALL INCLUDE POST, AND CONCRETE FOOTING, AS DIRECTED BY THE CITY ENGINEER.
7. THE CONTRACTOR SHALL CONSTRUCT FENCE POST WITH TENSION BAND, AND FOOTING, PER PLAN AND THE SPECIFICATION. FENCE POST SHALL BE 4" DIAMETER, GALVANIZED STEEL, 11-GAUGE. TENSION BAND SHALL BE 1-5/8" GALVANIZED STEEL. CONCRETE FOOTING SHALL BE USING PORTLAND CEMENT CONCRETE TYPE 500-C-2500.
8. THE CONTRACTOR SHALL CONSTRUCT FENCE POST WITH TENSION BAND, AND FOOTING, PER PLAN AND THE SPECIFICATION. FENCE POST SHALL BE 8" DIAMETER, GALVANIZED STEEL, 22-GAUGE. TENSION BAND SHALL BE 1-5/8" GALVANIZED STEEL. CONCRETE FOOTING SHALL BE USING PORTLAND CEMENT CONCRETE TYPE 500-C-2500.
9. THE CONTRACTOR SHALL CONSTRUCT FENCE POST, FOOTING, AND FENCE PANEL, PER PLAN AND THE SPECIFICATION, AND PER MAN GATE AND FENCE PANEL DETAIL SHOWN ON THIS SHEET. FENCE POST SHALL BE 2 1/2" DIAMETER, GALVANIZED STEEL, 11-GAUGE. CONCRETE FOOTING SHALL BE USING PORTLAND CEMENT CONCRETE TYPE 500-C-2500. THE FENCE PANELS SHALL 2-INCH MESH CHAIN LINK FENCE, GALVANIZED STEEL, 9-GAUGE.
10. THE CONTRACTOR SHALL CONSTRUCT TOP RAIL, PER PLAN AND THE SPECIFICATION. TOP RAIL SHALL BE 1 3/4" DIAMETER, GALVANIZED STEEL, 11-GAUGE.
11. THE CONTRACTOR SHALL CONSTRUCT TENSION BAR, PER PLAN AND THE SPECIFICATION. TENSION BAR SHALL BE GALVANIZED STEEL, 6-GAUGE.
12. CONTRACTOR SHALL REINSTALL GATE SYSTEM AND MODIFY GALVANIZED STEEL SLIDING CHAIN-LINK GATE TO OPEN OPPOSITE DIRECTION AS REQUIRED FOR IMPROVEMENTS, PER PLAN AND THE SPECIFICATIONS. ADJUST TRACK, ROLLERS, AND STOPS AS NEEDED. FIELD WELDING MAY BE REQUIRED; CLEAN AND COAT ALL CUTS AND WELDS WITH COLD GALVANIZING COMPOUND. RECONNECT AND TEST FOR FULL OPERATION. REPAIR OR REPLACE DAMAGED OR MISSING COMPONENTS AT NO ADDITIONAL COST TO CITY AND AS APPROVED BY CITY ENGINEER.
13. CONTRACTOR SHALL MOUNT ADA KICKPLATE, ON THE PUSH SIDE, FLUSH TO THE BOTTOM OF THE NEW GATE DOOR, PER PLAN AND THE SPECIFICATIONS. THE ADA KICK-PLATE SHALL BE SMOOTH SURFACE, A HEIGHT OF 10-INCHES FROM THE BOTTOM OF THE DOOR.



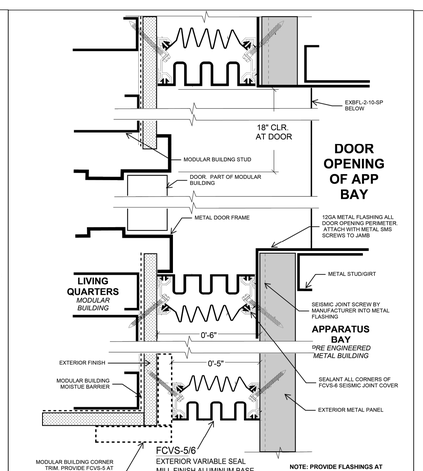
MATCH POST

EXISTING CANTILEVER GATE REINSTALLATION DETAIL

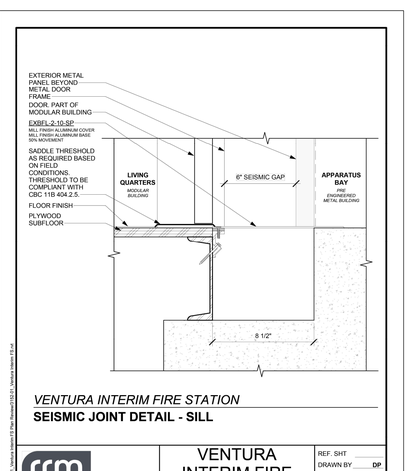
NOT TO SCALE



VENTURA INTERIM FIRE STATION
SEISMIC JOINT DETAIL - WALL



VENTURA INTERIM FIRE STATION
SEISMIC JOINT DETAIL - WALL



VENTURA INTERIM FIRE STATION
SEISMIC JOINT DETAIL - SILL

rrm design group

VENTURA INTERIM FIRE STATION
A-901: SESIMIC GAP DETAIL

REF. SHT _____
DRAWN BY ____DP
CHECKED BY ____KH
DATE _____03/16/26
JOB NO 152-01-PS24
SCALE _____3" = 1'-0"

3/13/2026 11:31:29 AM
C:\Users\DAG\Documents\Fire Revised\152-1 Ventura Interim FS.rvt

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7
FENCE GATE IMPROVEMENTS AND DETAILS

DRN. BY: DAG	DES. BY: GDK	CK'D. BY: GDK

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

REGISTERED PROFESSIONAL ENGINEER DANIELA RASA NO. 92225 CIVIL STATE OF CALIFORNIA

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
April 28, 2026	SHEET 18 OF 151	DWG. NO. 2025-D-010

NOTES

1. TERMINATE CAT6E IN EXTERIOR RATED JUNCTION BOX MOUNTED BELOW ROOF LINE, COIL CABLE AND PROVIDE BLANK COVER.
2. PROVIDE 3 DUPLEX 120V RECEPTACLES EVENLY SPACED 8" TO 12" ABOVE CABINET COUNTERTOP. (GLOBAL MODULAR INC.)
3. UNDERGROUND CONDUIT AND SLAB PENETRATION TO BE COMPLETED WITH SITE CONSTRUCTION.
4. COIL AND ATTACH ADEQUATE CABLE TO COMPLETE ON-SITE PULL TO TERMINATE AT IT EQUIPMENT AND TELECOM CENTER IN MODULAR LIVING QUARTERS.
5. TERMINATE TELEVISION CAT6E TO WALL BOX AND PLATE WITH RJ 45 JACKS AT ± 48" ABOVE FLOOR.
6. PROVIDE TELEVISION QUAD 120V RECEPTACLES AT ± 48" ABOVE FLOOR. (GLOBAL MODULAR INC.)

THE PLAN SHOWS IT CABLE DROP AND BELOW GRADE CONDUIT FOR MODULAR UNITS AND APPARATUS BAY. WORK SHOWN FOR MODULAR BUILDING TO BE COMPLETED BY GLOBAL MODULAR. WORK SHOWN ON APPARATUS BAY TO BE COMPLETED BY THE SITE IMPROVEMENT CONTRACTOR INCLUDING TERMINATION OF CABLE TO THE CAPTAIN OFFICE.

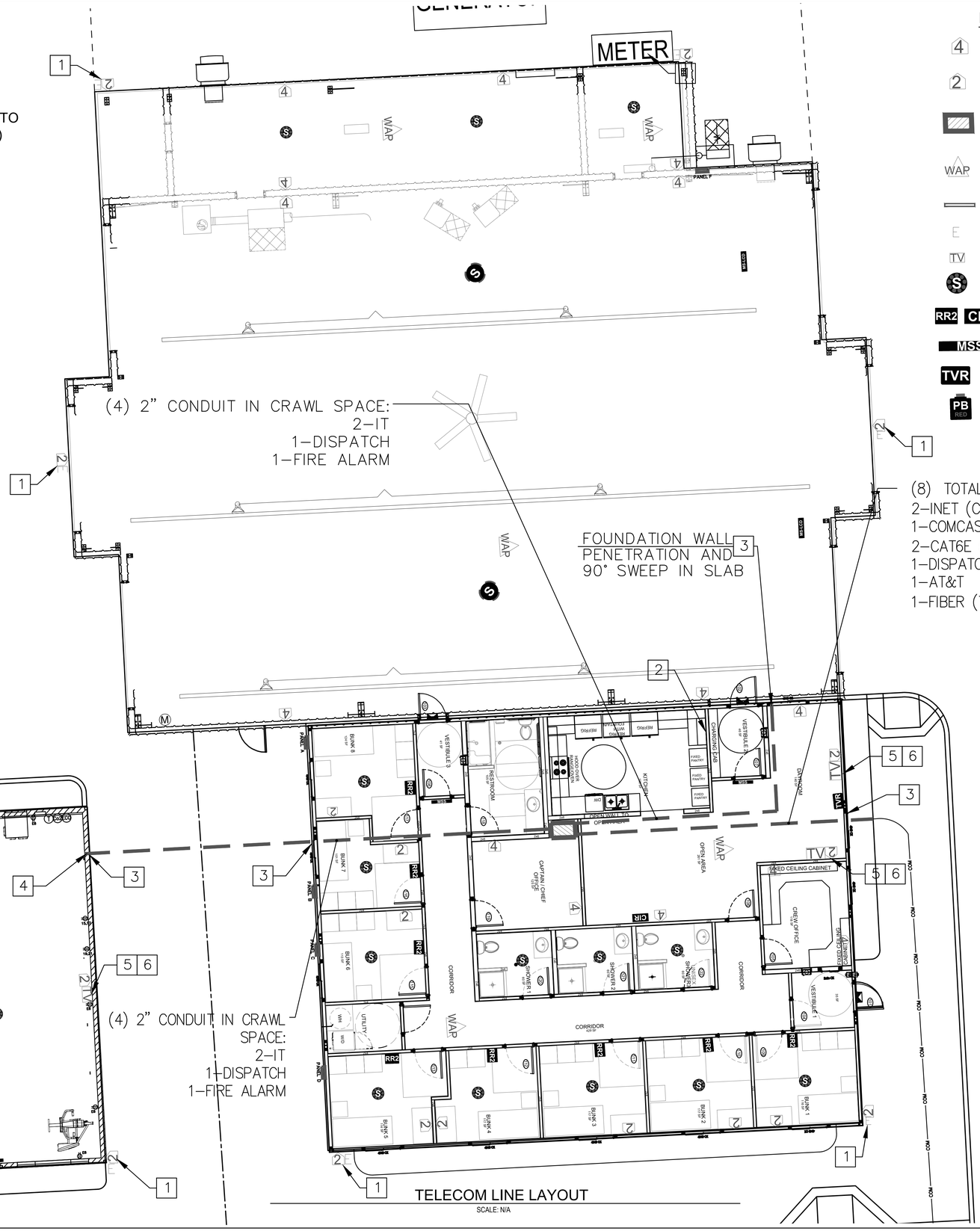
SEE SITE UTILITY PLAN FOR WORK OUTSIDE THE BUILDING FOOTPRINT.

CABLE FOR IT, FIRE DISPATCH ALERTING AND FIRE ALARM WITHIN APPARATUS BAY SHALL BE INSTALLED IN GRC AND PROVIDE METAL JUNCTION BOXES FOR ALL TERMINATIONS, JUNCTION AND PULL POINTS. CONDUIT AND CABLE LAYOUT PLANS/SHOP DRAWING SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

EXTERIOR TERMINATION IN APPARATUS BAY SHALL BE INSTALLED IN ACCORDANCE WITH BUILDING SHELL PENETRATION DETAILS PROVIDED OR APPROVED BY CLEARSPAN.

USDD FIRE DISPATCH ALERTING EQUIPMENT TO BE INSTALLED EXCLUSIVELY BY INSTALLATION CONTRACTOR CERTIFIED BY THE MANUFACTURER, USDD HONEYWELL CABLE, CONDUIT AND JUNCTION BOX INSTALL TO BE COMPLETED BY GLOBAL MODULAR OR SITE IMPROVEMENT CONTRACTOR FOR APPARATUS BAY.

APPARATUS BAY CABLE RUNS FOR IT AND FIRE DISPATCH ALERTING TO BE EXTENDED TO CAPTAIN OFFICE WITHIN MODULAR BUILDING BY SITE IMPROVEMENT CONTRACTOR.



TELECOM LINE LAYOUT

SCALE: N/A

LEGEND

- 4 — CAT6E CABLE WALL BOX AND PLATE WITH RJ 45 JACK- (4) PORTS
- 2 — CAT6E CABLE WALL BOX AND PLATE WITH RJ 45 JACK - (2) PORTS
- IT EQUIPMENT AND TELECOM CENTER, USDD ATX & FIRE ALARM PANEL
- WAP — CAT6E CABLE AND RJ45 PLUG FOR CEILING MOUNTED WIRELESS ACCESS POINT
- ELECTRICAL PANEL
- E — EXTERIOR FOR FUTURE CAMERA
- TV — TELEVISION (WALL MOUNT)
- S — LED ALERTING SPEAKER (USDD DISPATCH ALERTING)
- RR2 CIR — ROOM REMOTE/COLOR REMOTE (USDD)
- MSS — MESSAGE SIGN BOARD (USDD)
- TVR — HDTV REMOTE (USDD)
- PB RED — BELL (USDD)

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

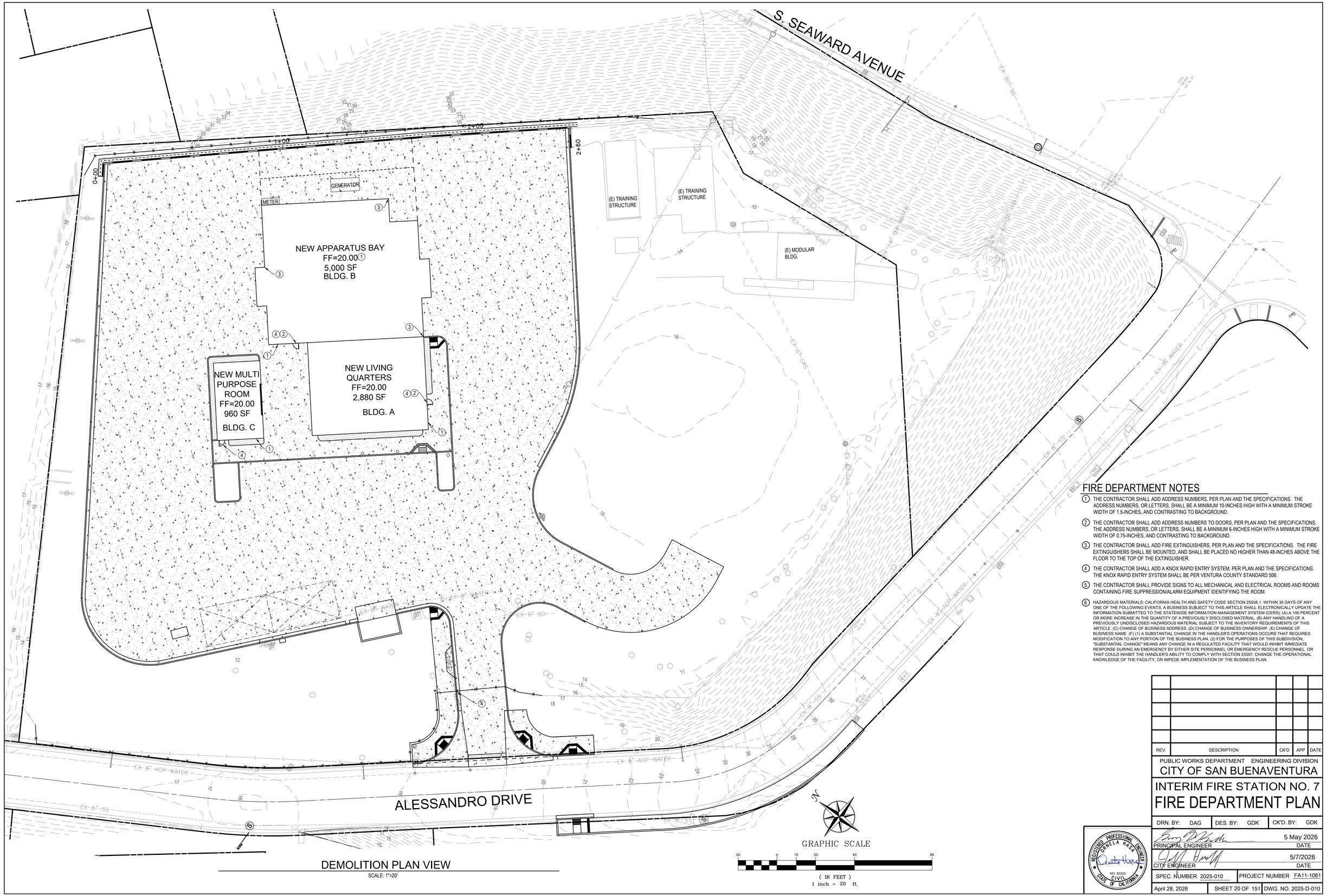
INTERIM FIRE STATION NO. 7
TELECOM PLAN

DRN. BY: DAG	DES. BY: RTH	CK'D. BY: RTH

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
February 23, 2026	SHEET 19 OF 151	DWG. NO. 2025-D-010



DEMOLITION PLAN VIEW

SCALE: 1"=20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

FIRE DEPARTMENT NOTES

1. THE CONTRACTOR SHALL ADD ADDRESS NUMBERS, PER PLAN AND THE SPECIFICATIONS. THE ADDRESS NUMBERS, OR LETTERS, SHALL BE A MINIMUM 10-INCHES HIGH WITH A MINIMUM STROKE WIDTH OF 1.5-INCHES, AND CONTRASTING TO BACKGROUND.
2. THE CONTRACTOR SHALL ADD ADDRESS NUMBERS TO DOORS, PER PLAN AND THE SPECIFICATIONS. THE ADDRESS NUMBERS, OR LETTERS, SHALL BE A MINIMUM 6-INCHES HIGH WITH A MINIMUM STROKE WIDTH OF 0.75-INCHES, AND CONTRASTING TO BACKGROUND.
3. THE CONTRACTOR SHALL ADD FIRE EXTINGUISHERS, PER PLAN AND THE SPECIFICATIONS. THE FIRE EXTINGUISHERS SHALL BE MOUNTED, AND SHALL BE PLACED NO HIGHER THAN 48-INCHES ABOVE THE FLOOR TO THE TOP OF THE EXTINGUISHER.
4. THE CONTRACTOR SHALL ADD A KNOX RAPID ENTRY SYSTEM, PER PLAN AND THE SPECIFICATIONS. THE KNOX RAPID ENTRY SYSTEM SHALL BE PER VENTURA COUNTY STANDARD 506.
5. THE CONTRACTOR SHALL PROVIDE SIGNS TO ALL MECHANICAL AND ELECTRICAL ROOMS AND ROOMS CONTAINING FIRE SUPPRESSION/ALARM EQUIPMENT IDENTIFYING THE ROOM.
6. HAZARDOUS MATERIALS: CALIFORNIA HEALTH AND SAFETY CODE SECTION 25508.1. WITHIN 30 DAYS OF ANY ONE OF THE FOLLOWING EVENTS, A BUSINESS SUBJECT TO THIS ARTICLE SHALL ELECTRONICALLY UPDATE THE INFORMATION SUBMITTED TO THE STATEWIDE INFORMATION MANAGEMENT SYSTEM (CERS): (A) A 100 PERCENT OR MORE INCREASE IN THE QUANTITY OF A PREVIOUSLY DISCLOSED MATERIAL. (B) ANY HANDLING OF A PREVIOUSLY UNDISCLOSED HAZARDOUS MATERIAL SUBJECT TO THE INVENTORY REQUIREMENTS OF THIS ARTICLE. (C) CHANGE OF BUSINESS ADDRESS. (D) CHANGE OF BUSINESS OWNERSHIP. (E) CHANGE OF BUSINESS NAME. (F) (1) A SUBSTANTIAL CHANGE IN THE HANDLER'S OPERATIONS OCCURS THAT REQUIRES MODIFICATION TO ANY PORTION OF THE BUSINESS PLAN. (2) FOR THE PURPOSES OF THIS SUBDIVISION, "SUBSTANTIAL CHANGE" MEANS ANY CHANGE IN A REGULATED FACILITY THAT WOULD INHIBIT IMMEDIATE RESPONSE DURING AN EMERGENCY BY EITHER SITE PERSONNEL OR EMERGENCY RESCUE PERSONNEL, OR THAT COULD INHIBIT THE HANDLER'S ABILITY TO COMPLY WITH SECTION 25507, CHANGE THE OPERATIONAL KNOWLEDGE OF THE FACILITY, OR IMPEDE IMPLEMENTATION OF THE BUSINESS PLAN.

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

FIRE DEPARTMENT PLAN

DRN. BY: DAG	DES. BY: GDK	CK'D. BY: GDK

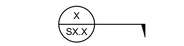
REGISTERED PROFESSIONAL ENGINEER — DANIELA HASA — NO. 92225 — CIVIL — STATE OF CALIFORNIA

5 May 2026
PRINCIPAL ENGINEER — DATE

5/7/2026
CITY ENGINEER — DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
April 28, 2026	SHEET 20 OF 151	DWG. NO. 2025-D-010

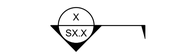
SYMBOLS



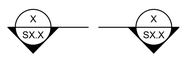
SECTION REFERENCE BUBBLE

DETAIL REFERENCE BUBBLE WITH ARROW

DETAIL REFERENCE BUBBLE

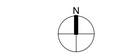


FULL HEIGHT SECTION INDICATOR



BUILDING SECTION INDICATOR

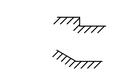
ELEVATION OF WALL OR FRAME



NORTH ARROW

SLOPE

EARTH LAYER



STEPPED SURFACE; FLOOR DEPRESSION

SLOPED SURFACE

INDICATES SAND OR GROUT

INDICATES GRAVEL

WELDED WIRE FABRIC (WWF LAYER)

STEEL TUBE COLUMN

STEEL PIPE COLUMN

WIDE FLANGE STEEL COLUMN

MEMBER SPLICE

STEEL IN CROSS SECTION

DIRECTION OF SPAN

ABBREVIATIONS

SCHED	SCHEDULE
SECT	SECTION
SEP	SEPERATION
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SLBB	SHORT LEGS BACK-TO-BACK
SOG	SLAB ON GRADE
SPCG	SPACING
SPECS	SPECIFICATIONS
SPCL	SPECIAL
SQ	SQUARE
SS	SELECT STRUCTURAL
SSL	SHORT SLOTTED HOLES
STAGG	STAGGER
STD	STANDARD
STIFF	STIFFENERS
STIRR	STIRRUP
STL	STEEL
STRUCT	STRUCTURAL
STRUCT I	STRUCTURAL I
SW	SHEAR WALL
SYM	SYMMETRICAL
TB	TIE BEAM
T&B	TOP AND BOTTOM
T&G	TONGUE & GROOVE
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TEMP	TEMPERATURE; TEMPORARY
THRU	THROUGH
THK	THICKNESS/THICK
THR	THREADED
TOP or T	TOP
TOS	TOP OF STEEL
TOW	TOP OF WALL
TSG	TAPERED STEEL GIRDER
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UNO	UNLESS NOTED OTHERWISE
UT	ULTRA-SONIC TEST
VERT	VERTICAL
VSH	VERTICAL SLOTTED HOLES
W/	WITH
W/O	WITHOUT
WD	WOOD
WP	WORK POINT; WATERPROOF
WT	WEIGHT
WWF	WELDED WIRE FABRIC

STRUCTURAL STEEL SHAPES

Wx	W SHAPE
Cx	AMERICAN STD CHANNEL SHAPE
MC	MISC CHANNEL SHAPE
Lx	ANGLE SHAPE
WT, ST, MT	STRUCT TEE SHAPE
PIPE	STANDARD PIPE SHAPE
PIPE-X	EXTRA STRONG PIPE SHAPE
PIPE-XX	DBL EXTRA STRONG PIPE SHAPE
HSS	STRUCT TUBING SHAPE

GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GLB	GLUED LAMINATED BEAM
GR	GRADE
GRND	GROUND
H or HORIZ	HORIZONTAL
HDR	HEADER
HGR	HANGER
HOSP	HOSPITAL
HP	HIGH POINT
HS	HIGH STRENGTH
HSH	HORIZONTALLY SLOTTED HOLES
HT	HEIGHT
HR	HARD ROCK
ID	INSIDE DIAMETER
IF	INSIDE FACE
I-JST	I-JOIST
IN	INCH
INCL	INCLUDE
INFO	INFORMATION
INSP	INSPECTION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS
KSI	KIPS PER SQUARE INCH
LAB	LABORATORY
LB(S) OR #	POUND(S)
LF	LINEAL FOOT
LIN	LINEAL; LINEAR
LLBB	LONG LEGS BACK-TO-BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LSL	LONG SLOTTED HOLES
LT WT	LIGHTWEIGHT
LVL	LEVEL
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MISCELLANEOUS CHANNEL SHAPE
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM; MINUTE
MISC	MISCELLANEOUS
(N)	NEW
N	NORTH
NF	NEAR FACE
NIC	NOT IN CONTRACT
NORM	NORMAL
NO or #	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
OSB	ORIENTED STRAND BOARD
PARA OR //	PARALLEL
PC	PRECAST; PIECE
PERP	PERPINDICULAR
PI	PLYWOOD INDEX
PL	PLATE
℄	PROPERTY LINE
PLF	POUNDS PER LINEAL FOOT
PLCS	PLACES-
PLY	PLYWOOD
PROP	PROPERTY
PT	POST TENSIONED
PW	PLATE WASHER
PJP	PARTIAL JOINT PENETRATION WELD
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
#	POUND; NUMBER
REF	REFERENCE
REINF	REINFORCE; REINFORCING
REQD	REQUIRED
RF	ROOF
Ø	DIAMETER

AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADJ	ADJACENT
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AGGR	AGGREGATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
ANCH	ANCHOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
APPVD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL; ARCHITECT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION
AWS	AMERICAN WELDING SOCIETY
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
&	AND
@	AT
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BN	BOUNDARY NAIL
BNDRY	BOUNDARY
BOT OR B	BOTTOM
BRC	BRACE
BRG	BEARING
BT	BENT
BTWN	BETWEEN
CANT	CANTILEVER
CAM OR C	CAMBER
CC	CENTER TO CENTER
CG	CENTER OF GRAVITY
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION JOINT; CONTROL JOINT
CL	CENTER LINE
CLR	CLEARANCE; CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSION
CONC	CONCRETE
CONN	CONNECTION; CONNECT
CONSTR	CONSTRUCTION
CONT	CONTINUE; CONTINUOUS
CONTR	CONTRACTOR
CJP	COMPLETE JOINT PENETRATION WELD
CTR	CENTER
CTSK	COUNTERSINK; COUNTERSUNK
CU FT	CUBIC FOOT
d	PENNY (NAIL OR BAR DIA)
DBL	DOUBLE
DEPT	DEPARTMENT
DET	DETAIL
DF	DOUGLAS FIR/LARCH
DIA OR ø	DIAMETER
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DIM	DIMENSION
DN	DOWN
DO	DITTO (REPEAT)
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT
EN	EDGE NAIL
ENGR	ENGINEER
EQ	EQUAL OR EQUIVALENT
EQUIP	EQUIPMENT
ES	EACH SIDE
ETC	ET CETERA
EW	EACH WAY
EXIST or (E)	EXISTING
EXT	EXTERIOR
FDN	FOUNDATION
FF	FAR FACE
FF	FINISHED FLOOR
FIN	FINISH
FJ	FLOOR JOIST
FL	FLOOR LINE
FLG	FLANGE
FLR	FLOOR
FN	FIELD NAIL
FOC	FACE OF CONCRETE
FOM	FACE OF MASONARY
FOS	FACE OF STUD
FOW	FACE OF WALL
FP	FULL PENETRATION; FIRE PROOFING
FRMG	FRAMING
FS	FULL SIZE; FAR SIDE
FT	FOOT; FEET
FTG	FOOTING

SHEET INDEX

SHEET NUMBER	SHEET NAME
S0.0	SHEET LIST, ABBREVIATIONS AND SYMBOLS
S0.1	STRUCTURAL GENERAL NOTES
S0.2	STRUCTURAL GENERAL NOTES
S1.0	FOUNDATION PLAN
S1.1	REINFORCING PLAN
S1.2	MODULAR GYM FOUNDATION
S2.0	ELEVATIONS
S2.1	MODULAR ELEVATIONS
S3.0	TYPICAL CONCRETE DETAILS
S3.1	TYPICAL CONCRETE DETAILS
S3.2	PEMB ANCHORAGE DETAILS
S3.3	MODULAR DETAILS
S3.4	MODULAR DETAILS

REV.	DESCRIPTION	CK'D	APP	DATE
2	PLAN CHECK 2			2/17/26
1	PLAN CHECK 1			8/11/25

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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

SHEET LIST, ABBREVIATIONS AND SYMBOLS

DRN. BY:	CC	DES. BY:	KK	CK'D. BY:	RT

REGISTERED PROFESSIONAL ENGINEER — GREGORY A. TOBE — No. S6043 — STRUCTURAL — STATE OF CALIFORNIA

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 PROJECT NO. FA11-1061

SEPTEMBER 7, 2025 SHEET 21 OF 151 DWG. NO. 2025-D-010

2/17/2026 3:17:50 PM
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CONCRETE

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318, LATEST EDITION.
2. REINFORCED CONCRETE IS DESIGNED BY THE "ULTIMATE STRENGTH DESIGN METHOD".
3. CONCRETE MIXTURES SHALL BE DESIGNED BY THE APPROVED TESTING LABORATORY AND REVIEWED BY THE STRUCTURAL ENGINEER. THE COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE PROPORTIONED BASED AS INDICATED ON ACI 318-19.
4. SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTH AND TYPES

LOCATIONS IN STRUCTURE	STRENGTH (PSI)	DENSITY (PCF)	MAX W/C RATIO
FOOTINGS AND FOUNDATION WALLS	4,000	145	0.45

5. PROVIDE CONCRETE MIXTURES THAT MEET THE DURABILITY REQUIREMENTS INDICATED IN THE GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS.
6. CONCRETE SHRINKAGE SHALL BE LIMITED TO 0.05 PERCENT PER ASTM C157.
7. CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES FAHRENHEIT AND IN MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT.
8. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II, OR AS REQUIRED BY THE GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS. PROVIDE TYPE V WHERE CONCRETE IS IN CONTACT WITH CORROSIVE SOIL.
9. AGGREGATE FOR HARDROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C-33 AND PROJECT SPECIFICATIONS.
10. CONCRETE MIXING OPERATIONS, ETC. SHALL CONFORM TO ASTM C-94..
11. PLACEMENT OF CONCRETE SHALL CONFORM TO THE CODE CHAPTER 19 AND PROJECT SPECIFICATIONS. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED UNLESS NOTED OTHERWISE.
12. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS, INCLUDING PIPES AND CONDUITS, SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.
13. CORING IN CONCRETE IS NOT PERMITTED WITHOUT ENGINEER'S REVIEW AND APPROVAL. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.
14. CONDUITS LARGER THAN 1-1/2" DIAMETER MAY BE EMBEDDED IN STRUCTURAL CONCRETE WHERE SPECIFICALLY APPROVED BY STRUCTURAL ENGINEER. UNLESS DETAILED OTHERWISE, EMBEDDED CONDUIT SHALL CONFORM TO THE FOLLOWING:
    A. CONDUITS SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS.
    B. DO NOT STACK AND/OR CLUSTER CONDUITS.
    C. SPACE EMBEDDED CONDUITS A MINIMUM OF 3 DIAMETERS CLEAR FROM OTHER EMBEDDED CONDUITS USING THE LARGER CONDUIT DIAMETER.
    D. PROVIDE 1-1/2" CLEAR FROM REINFORCING BARS.
    E. EMBEDDED CONDUITS SHALL BE PLACE IN THE MIDDLE THIRD OF SLABS, BEAMS, WALLS, FOOTINGS, ETC.
15. PIPES ARE NOT PERMITTED TO BE EMBEDDED IN CONCRETE.
16. SCREED CONCRETE FILL OVER STEEL DECK TO A CONSTANT THICKNESS AS SPECIFIED IN THE DECKING SCHEDULE.

CONSTRUCTION JOINTS

1. ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 19 AND ACI 318 26.5.6 OF THE CODE AND THE TYPICAL CONSTRUCTION JOINT DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.
2. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS, STANDING WATER OR OTHER FOREIGN MATTER PRIOR TO PLACING CONCRETE.
3. THE CONTRACTOR SHALL SUBMIT THE PROPOSED LOCATIONS OF CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER FOR REVIEW BEFORE STARTING CONSTRUCTION.

REINFORCING STEEL

1. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19 OF THE CODE, ASTM 706, GRADE 60 (UNO). DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A-305.
2. BARS SHALL BE CLEAN OF RUST GREASE OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
3. DETAIL, FABRICATE, AND INSTALL REINFORCING IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 301, ACI 117, AND THE "CRSI MANUAL OF STANDARD PRACTICE."
4. REINFORCING BAR SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. MINIMUM SPLICE LENGTH FOR REINFORCING STEEL BARS IN CONCRETE SHALL BE AS REQUIRED FOR CLASS B SPLICE PER ACI 318 SECTION 25.5.2 UNO. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS.
5. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE.
6. WHERE WELDING OF REINFORCING IS APPROVED BY THE STRUCTURAL ENGINEER. IT SHALL BE DONE BY AWS CERTIFIED WELDERS USING E90XX OR APPROVED ELECTRODES. WELDING PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF STRUCTURAL WELDING CODE REINFORCING STEEL AWS-D1.4 LATEST REVISION. REINFORCING BARS TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-706.
7. BARS IN SLABS SHALL BE SECURELY SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL CHAIRS, PRIOR TO PLACING CONCRETE.
8. COMPLETE AND DETAILED REINFORCING PLACEMENT DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ARCHITECT FOR REVIEW BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE CODES. THESE DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO PLACING OF CONCRETE.
9. MILL TEST REPORTS FOR GRADE 60 BARS SHALL BE SUBMITTED PRIOR TO PLACEMENT OF CONCRETE.
10. CONTINUOUS INSPECTION OF CONCRETE SHALL INCLUDE INSPECTION DURING INSTALLATION OF REINFORCING STEEL. INSPECTION SHALL BE SCHEDULED SO THAT PLACEMENT OF REINFORCING STEEL, CONDUIT SLEEVES AND EMBEDDED ITEMS MAY BE CORRECTED PRIOR TO PLACEMENT OF OVERLYING GRIDS OF REINFORCING STEEL.
11. CONCRETE PROTECTION FOR REINFORCEMENT:

CAST-IN-PLACE CONCRETE: THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

	MINIMUM COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	
#6 & LARGER	2"
#5 & SMALLER	1 1/2"
SLABS, WALLS, OR JOISTS NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND	
#14 & LARGER	1 1/2"
#11 & SMALLER	3/4"
BEAM AND COLUMN TIES & STIRRUPS NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	1 1/2"

FOUNDATION

1. FOUNDATION DESIGN BASED ON THE GEOTECHNICAL INVESTIGATION REPORT 306642-001 BY EARTH SYSTEMS PACIFIC DATED DECEMBER 16, 2024. 1
2. CONVENTIONAL FOUNDATIONS AND SLABS-ON-GRADE SHALL BEAR ON COMPACTED FILL. ALL UNSUITABLE SOILS SHALL BE REMOVED AND RECOMPACTED UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS/HER REPRESENTATIVE. REFER TO THE GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS FOR EXTENT OF REMOVAL AND COMPACTION REQUIREMENTS.
3. FOOTINGS ARE DESIGNED BASED ON THE FOLLOWING INFORMATION FROM THE GEOTECHNICAL REPORT:

MAT FOUNDATION

ALLOWABLE NET BEARING PRESSURE UNDER DEAD AND SUSTAINED LIVE LOADS = 550 PSF 1
ALLOWABLE NET BEARING PRESSURE UNDER CONCENTRATED LOAD AREAS = 2,000 PSF

SUBGRADE MODULUS, K_S = 21.8 PSI/IN 1

MAT FOUNDATION SHALL BE UNDERLAIN AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. BEARING CAPACITY IS BASED ON 12-INCH MINIMUM FOOTING DEPTH BELOW ADJACENT GRADE.

CONTINUOUS FOOTINGS

ALLOWABLE BEARING PRESSURE = 2,000 PSF

BEARING CAPACITY IS BASED ON 15-INCH MINIMUM FOOTING WIDTH AND 12-INCH MINIMUM FOOTING DEPTH BELOW ADJACENT GRADE.

INCREASE FOR SHORT TERM LOADS

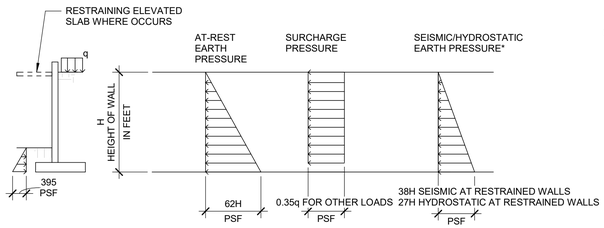
ALLOWABLE BEARING PRESSURES MAY BE INCREASED BY 1/3 WH WHEN APPLIED DEAD AND LIVE LOADS ARE COMBINED WITH WIND AND SEISMIC FORCES.

LATERAL RESISTANCE

ALLOWABLE PASSIVE EARTH PRESSURE = 395 PCF
COEFFICIENT OF FRICTION = 0.60
SLIDING FACTOR OF SAFETY = 1.5

PASSIVE AND FRICTION RESISTANCE MAY BE COMBINED TO RESIST LATERAL LOADS INCLUDING WIND AND SEISMIC WITHOUT REDUCTION.

4. RETAINING WALLS ARE DESIGNED BASED ON THE FOLLOWING INFORMATION:



5. REFER TO GEOTECHNICAL REPORT FOR GROUNDWATER ELEVATION. CONTRACTOR TO PROVIDE DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER AND/OR SEEPAGE, IF REQUIRED.
6. EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING. CONTRACTOR TO NOTIFY THE SOILS ENGINEER WHEN INSPECTION OF EXCAVATION IS READY. SOILS ENGINEER TO SUBMIT LETTER OF COMPLIANCE.
7. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH. BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE IN PLACE AND HAVE ATTAINED FULL STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.
8. FOOTING BACKFILL AND UTILITY BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS IN ACCORDANCE WITH THE SOILS REPORT AND APPROVED BY THE SOILS ENGINEER. FLOODING WILL NOT BE PERMITTED. ALL FILLS USED TO SUPPORT FOUNDATIONS SHALL BE INSPECTED BY THE SOILS ENGINEER REPRESENTATIVE
9. REMOVE ALL ABANDONED FOOTINGS, UTILITIES, ETC.
10. PLACE A MOISTURE BARRIER MEMBRANE OVER SAND AND GRAVEL BASE UNDER SLABS-ON-GRADE PER THE GEOTECHNICAL REPORT, OR AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.

STRUCTURAL OBSERVATIONS

1. STRUCTURAL OBSERVATION SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNEE IN ACCORDANCE WITH SECTION 1704.6 OF THE CODE.
2. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATION. STRUCTURAL OBSERVATION DOES NOT WAVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE CITY OR DEPUTY INSPECTORS.
3. THE CONTRACTOR SHALL COORDINATE AND CALL FOR A PRE-CONSTRUCTION MEETING BETWEEN THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN. STRUCTURAL OBSERVER, CONTRACTOR, AFFECTED SUBCONTRACTORS, PROJECT INSPECTOR. THE PURPOSE OF THE MEETING SHALL BE TO IDENTIFY THE MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT THE VERTICAL AND LATERAL LOAD SYSTEMS OF THE STRUCTURE AND TO REVIEW SCHEDULING OF THE REQUIRED OBSERVATIONS.
4. THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE FOLLOWING SIGNIFICANT CONSTRUCTION STAGES REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER.

CONSTRUCTION STAGES	ELEMENTS/CONNECTIONS TO BE OBSERVED
FOUNDATIONS	REINF/CONC/ANCHOR BOLTS
CONCRETE WALLS	REINF/EMBEDS
CONCRETE SLABS	REINF/EMBEDS

5. THE STRUCTURAL OBSERVER SHALL PREPARE A REPORT FOR EACH SIGNIFICANT STATE OF CONSTRUCTION OBSERVED. A COPY OF THE OBSERVATION REPORT SHALL BE SENT TO THE OWNER, CONTRACTOR AND INSPECTOR OF RECORD (IOR).

DESIGN LOADS

1. DEAD LOADS

SELF-WEIGHT OF MATERIALS

PRE-ENGINEERED METAL BLDG (PEMB)*

ROOF DEAD LOAD 2.2 PSF
SUPERIMPOSED DL 2.0 PSF
COLLATERAL DL 10.0 PSF

MODULAR LIVING QUARTERS & GYM (MODULAR)*

ROOF DEAD LOAD* 13 PSF
FLOOR DEAD LOAD 8 PSF

2. FLOOR LIVE LOADS:

PEMB

STORAGE ROOMS 125 PSF (N0N-REDUCIBLE)

EQUIPMENT ROOMS 150 PSF (N0N-REDUCIBLE)

MODULAR LIVE LOADS*

ASSEMBLY AREAS 100 PSF (N0N-REDUCIBLE)

3. ROOF LIVE LOADS:

PEMB BLDG ROOF 20 PSF (REDUCIBLE)

MODULAR 20 PSF (REDUCIBLE)

4. WIND LOADS:

WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609 OF THE CODE.

RISK CATEGORY: IV

WIND SPEED: V_{ult} = 105 MPH (3-SECOND GUST)

WIND EXPOSURE: C

INTERNAL PRESSURE COEFFICIENT: GC_{pi} = ± 0.18

5. SEISMIC DESIGN PARAMETERS

DESIGN PARAMETERS	SYMBOL	RECOMMENDED VALUE
SITE CLASS	-	E
MAPPED SPECTRAL ACCELERATION FOR SHORT PERIODS	S_S	1.956g
MAPPED SPECTRAL ACCELERATION FOR A 1-SECOND PERIOD	S_1	0.735g
SITE COEFFICIENT	F_a	1.00
SITE COEFFICIENT	F_v	4.00
DESIGN SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS	S_{DS}	1.191g
DESIGN SPECTRAL RESPONSE ACCELERATION FOR 1-SECOND PERIOD	S_{D1}	1.895g

6. SEISMIC ANALYSIS OF PRIMARY STRUCTURE

SEISMIC IMPORTANCE FACTOR, Ie	1.5
RISK CATEGORY	IV
SEISMIC DESIGN CATEGORY	D
ANALYSIS PROCEDURE USED	STATIC EQUIVALENT LATERAL FORCE PROCEDURE
PEMB SEISMIC FORCE RESISTING SYSTEM	
NORTH/SOUTH DIRECTION	ORDINARY STEEL CONCENTRICALLY BRACED FRAMES / ORDINARY STEEL MOMENT FRAMES
R	3.25
Ω_0	3
Cd	3.25
EAST/WEST DIRECTION	ORDINARY STEEL MOMENT FRAMES
R	3.5
Ω_0	3
Cd	3
MODULAR SEISMIC FORCE RESISTING SYSTEM	
	ORDINARY STEEL MOMENT FRAMES
R	3.5
Ω_0	3
Cd	3

7. LOADING MARKED WITH AN ASTERISK (*) ABOVE WAS PROVIDED BY THE PEMB OR MODULAR FABRICATOR AS APPLICALBE FOR USE IN FOUNDATION DESIGN.

GENERAL

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
2. ALL DRAWINGS, SPECIFICATIONS AND DOCUMENTS ENUMERATED IN THE OWNER/CONTRACTOR AGREEMENT ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. WHERE CONFLICTS BETWEEN DRAWINGS AND THE SPECIFICATIONS OCCUR, CONSTRUCTION SHALL FOLLOW THE MORE STRINGENT REQUIREMENT UNLESS OTHERWISE APPROVED BY SEOR.
4. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:

    2022 CALIFORNIA BUILDING CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, VOLUME 2 OF 2 AND LATEST REVISIONS ADOPTED PRIOR TO PERMITTING REFERRED TO HERE AS "THE CODE", AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (DOSH), AND THOSE CODES & STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
5. ALL REFERENCED STANDARDS SHALL BE THE VERSION INDICATED IN CHAPTER 35 OF THE CODE.
6. SEE DRAWINGS PREPARED BY OTHER CONSULTANTS AND/OR VENTORS FOR THE FOLLOWING:
    A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED.
    B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS UNLESS NOTED AND/OR DETAILED ON THE STRUCTURAL DRAWINGS.
    C. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.
    D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN.
    E. FLOOR AND ROOF FINISHES.
    F. MISCELLANEOUS DRAINAGE AND WATERPROOFING.
    G. ALL FIREPROOFING REQUIREMENTS INCLUDING FIREPROOFING OF STRUCTURAL STEEL.
    H. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
7. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
    A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
    B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS EXCEPT AS SHOWN OR NOTED.
    C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES, EXCEPT AS SHOWN OR NOTED.
    D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.
8. THE STRUCTURAL CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER DO NOT INCLUDE REVIEW OF THE ABOVE ITEMS.
9. INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, NOTIFY THE CITY IMMEDIATELY.
10. OPENINGS, POCKETS, PENETRATIONS, NON-STRUCTURAL EMBEDS, ETC. SHALL NOT BE PLACED IN ANY STRUCTURAL MEMBER EXCEPT AS NOTED OR DETAILED ON THESE DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW SUCH ITEMS PLACED IN A MANNER THAT IS NOT CONSISTENT WITH THE STRUCTURAL DRAWINGS.
11. THE CONTRACT STRUCTURAL DRAWINGS SHOW THE BUILDING IN ITS FINAL INTENDED POSITION. MAKE PROVISIONS IN THE CONSTRUCTION SEQUENCING OF THE BUILDING TO TAKE INTO ACCOUNTS SHRINKAGE, CREEP, SHORTENING, THERMAL EXPANSION, ETC..
12. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.
13. COORDINATE AND VERIFY EDGE OF SLAB DIMENSIONS PRIOR TO FABRICATION OR PLACEMENT OF FORMWORK.
14. OBTAIN AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT. DIAL 811 (OR 1-800-422-4133 FOR SOUTHERN CALIFORNIA PROJECTS)
15. THE CONTRACTOR SHALL VERIFY THE EXTENT AND LOCATIONS OF SITE UTILITIES PRIOR TO EXCAVATION OR SHORING , THERE MAY BE DISCREPANCIES BETWEEN THE LOCATION INDICATED ON THE SITE SURVEY AND ACTUAL VERIFIED LOCATIONS. IF THE ACTUAL FIELD VERIFIED LOCATION OF UTILITIES COULD RESULT IN A CONFLICT WITH THE NEW CONSTRUCTION OR SHORING, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
16. CONTRACTOR SHALL COORDINATE SHORING WITH DRAWINGS OF RECORD TO ENSURE PROVISIONS FOR POCKETS, BLOCKOUTS, OFFSETS, STEPPED FOOTINGS AND ANY OTHER ITEMS AFFECTED BY THE SHORING.
17. VERIFY THAT THE ACTUAL OPERATING WEIGHT OF ALL EQUIPMENT DOES NOT EXCEED THAT SHOWN ON THE DRAWINGS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
18. CONTRACTOR SHALL SUBMIT PLANS SHOWING ALL PROPOSED OPENINGS (SIZE & LOCATIONS) TO AOR & SEOR FOR REVIEW AND APPROVAL BEFORE START OF WORK.
19. STOCK PILING OR STORAGE OF MATERIAL ON OR NEAR SHOWING BULKHEAD IS NOT PERMITTED.

REV.	DESCRIPTION	CK'D	APP	DATE
2	PLAN CHECK 2			2/17/26
1	PLAN CHECK 1			8/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

STRUCTURAL GENERAL NOTES

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DRN. BY: CC DES. BY: KK CK'D. BY: -

REGISTERED PROFESSIONAL ENGINEER — DAVID A. TORO — No. S6048 — STRUCTURAL — STATE OF CALIFORNIA

PRINCIPAL ENGINEER 5 May 2026 DATE

CITY ENGINEER 5/7/2026 DATE

SPEC. NUMBER 2025-010 PROJECT NO. FA11-1061

SEPTEMBER 7, 2025 SHEET 22 OF 151 DWG. NO. 2025-D-010

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TABLE 1 - REQUIRED SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	INSPECTION TYPE	CODE REFERENCE	REFERENCED STANDARDS	REMARKS
SOILS				
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	PERIODIC	1705.6	GEOTECHNICAL REPORT	BY THE GEOTECHNICAL ENGINEER
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	PERIODIC			
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS	PERIODIC			
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	CONTINUOUS			
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	PERIODIC			
GEOTECHNICAL				
FILL IN-PLACE DENSITY OR PREPARED SUBGRADE DENSITY		1705.6	ASTM D1557	BY GEOTECHNICAL ENGINEER
MATERIAL VERIFICATION			CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIAL	BY GEOTECHNICAL ENGINEER
CONCRETE				
CONCRETE STRENGTH		1903 1705.3	ASTM C39	FABRICATE SPECIMENS AT TIME FRESH CONCRETE IS PLACED. TEST EACH 150 CY NOR LESS THAN EACH 5000 SF OF SLAB OR WALL PLACED EACH DAY
CONCRETE SLUMP			ASTM C143	
CONCRETE AIR CONTENT			ASTM C231	
CONCRETE TEMPERATURE			ASTM C1064	
UNIT WEIGHT OF FRESH STRUCTURAL LIGHTWEIGHT CONCRETE			ASTM C567	
FLOOR FLATNESS AND LEVELNESS			ASTM E1155	TEST WITHIN 24 HOURS OF FINISHING
SHOTCRETE STRENGTH		1910.5 1910.10	ASTM C39	SPECIMEN TAKEN FROM THE IN-PLACE OR FROM TEST PANELS. EACH 50 CY NOR LESS THAN EACH 5000 SF OF WALL PLACED EACH SHIFT
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS AND VERIFY PLACEMENT	PERIODIC	1705.3 1908.4	ACI 318 CHAPTER 20, 25.2 - 25.3, 26.6.1 - 26.6.3	TOLERANCE AND REINFORCING PLACEMENT PER ACI 318, SECTION 26.6.2
2. REINFORCING BAR WELDING		1705.3	ACI 318 26.6.4 AWS D1.4, SECTION 7	VISUALLY INSPECT ALL WELDS. MATERIAL VERIFICATION OF REINFORCING STEEL FOR WELDING (CERTIFIED MILL TEST REPORTS), VERIFICATION OF WELD FILLER METALS, USE OF PROPER WPS'S AND WELDER QUALIFICATIONS
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	PERIODIC			
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	PERIODIC			
C. INSPECT ALL OTHER WELDS	CONTINUOUS			
3. INSPECT ANCHORS CAST IN CONCRETE	PERIODIC		ACI 318 17.8.2	
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.				INSPECTION REQUIREMENTS PER ICC EVALUATION REPORT. VERIFY THAT ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION ARE INSTALLED BY CERTIFIED INSTALLERS.
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION TO RESIST SUSTAINED TENSION LOADS.	CONTINUOUS		ACI 318 17.8.2.4	
B. MECHANICAL ANCHORS AND ADHESIVE NOT DEFINED IN 4A.	PERIODIC		ACI 318 17.8.2	
5. VERIFY USE OF REQUIRED DESIGN MIX	PERIODIC	1904.1, 1904.2, 1908.2, 1908.3	ACI 318 CH 19, 24.4.3, 26.4.4	VERIFY THAT ALL MIXES USED COMPLY WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED CODES AND STANDARDS
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TEST, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE TEMPERATURE OF CONCRETE.	CONTINUOUS	1908.10	ASTM C172 ASTM C31 ACI 318 26.4, 26.12	
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	1904.6, 1908.7, 1908.8	ACI 318 26.5	
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	1908.9	ACI 318 26.5.3 - 26.5.5	
9. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC		ACI 318 26.11.2	
10. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF CONCRETE MEMBER BEING FORMED.	PERIODIC		ACI 318 26.11.1.2(b)	
11. INSPECT INSTALLATION OF MECHANICAL COUPLING DEVICES.	CONTINUOUS		ICC EVALUATION REPORT	VERIFY GRADE AND SIZE OF REBAR BEING SPLICED, COUPLER IDENTIFICATION AND POSITION, AND INSTALLATION OF COUPLER
DESIGNATED SEISMIC SYSTEM				
1. DESIGNATED SEISMIC SYSTEM	PERFORM	1705.12.4		EXAMINE DESIGNATED SEISMIC SYSTEMS REQUIRING QUALIFICATION IN ACCORDANCE WITH SECTION 13.2.2 OF ASCE 7 AND VERIFY THAT THE LABEL, ANCHORAGE, AND MOUNTING CONFORM TO THE CERTIFICATE OF COMPLIANCE

TABLE 1 (CONT.) - REQUIRED SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	INSPECTION TYPE	CODE REFERENCE	REFERENCED STANDARDS	REMARKS
STEEL				
INSPECTION TASKS PRIOR TO WELDING				
1. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	PERFORM	1705.2.1	AISC 360, TABLE N5.4-1 AISC 341, TABLE J6-1	
2. MANUFACTURER CERTIFICATION FOR WELDING CONSUMABLES AVAILABLE	PERFORM			
3. MATERIAL IDENTIFICATION (TYPE/GRADE)	OBSERVE			
4. WELDER IDENTIFICATION SYSTEM	OBSERVE			
5. FIT-UP GROOVE WELDS (INCLUDING JOINT GEOMETRY)	OBSERVE			VERIFY JOINT PREPARATION, DIMENSIONS, CLEANLINESS, TACK WELD QUALITY, BACKING TYPE AND FIT
6. CONFIGURATION AND FINISH OF ACCESS HOLE	OBSERVE			
7. FIT-UP OF FILLET WELDS	OBSERVE			VERIFY ALIGNMENT, GAPS AT ROOT, CLEANLINESS OF STEEL SURFACES, AND QUALITY OF TACK WELD
8. CHECK WELDING EQUIPMENT	OBSERVE			
INSPECTION TASKS DURING WELDING				
1. USE OF QUALIFIED WELDERS	OBSERVE	1705.2.1	AISC 360, TABLE N5.4-2 AISC 341, TABLE J6-2	
2. CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE			VERIFY PACKAGING AND EXPOSURE CONTROL
3. NO WELDING OVER TACK WELDS	OBSERVE			
4. ENVIRONMENTAL CONDITIONS	OBSERVE			VERIFY WIND SPEED IS WITHIN LIMITS AS WELL AS PRECIPITATION AND TEMPERATURE
5. WELDING PROCEDURE SPECIFICATION (WPS) FOLLOWED	OBSERVE			VERIFY SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION (F, V, H, OH)
6. WELDING TECHNIQUES	OBSERVE			VERIFY INTERPASS AND FINAL CLEANING, PROFILE LIMITATIONS AND QUALITY OF EACH PASS
INSPECTION TASKS AFTER WELDING				
1. WELDS CLEANED	OBSERVE	1705.2.1	AISC 360, TABLE N5.4-3 AISC 341, TABLE J6-3	
2. SIZE, LENGTH, AND LOCATION OF WELDS	PERFORM			
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM			VERIFY CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES AND SIZE, UNDERCUT, AND POROSITY. DOCUMENT FINDINGS IN REPORT.
4. ARC STRIKES	PERFORM			
5. K-AREA	PERFORM			VISUALLY INSPECT WEB IN K-AREA FOR CRACKS WITHIN 3" OF WELD WHERE WELDS ARE PROVIDED IN THE K-AREA.
6. BACKING REMOVED AND WELD TABS REMOVED WHERE REQUIRED	PERFORM			
7. PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS WHERE REQUIRED	PERFORM			
8. REPAIR ACTIVITIES	PERFORM			
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	PERFORM			
INSPECTION TASKS PRIOR TO BOLTING				
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	PERFORM	1705.2.1	AISC 360, TABLE N5.6-1 AISC 341, TABLE J7-1	
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	OBSERVE			
3. PROPER FASTENER SELECTED FOR THE JOINT DETAIL.	OBSERVE			VERIFY GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE.
4. PROPER BOLTING PROCEDURE SELECTED FOR THE JOINT DETAIL	OBSERVE			
5. CONNECTING ELEMENTS MEET APPLICABLE REQUIREMENTS	OBSERVE			VERIFY FAYING SURFACE CONDITION AND HOLD PREPARATION
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLING PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.	OBSERVE			
7. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENT	OBSERVE			

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH CHAPTER 22 OF THE CODE AND THE FOLLOWING REFERENCES:
   A. AISC 303 - "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
   B. AISC 360 - "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS"
   C. AISC 341 - "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS" FOR MEMBERS OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS)
   D. RCSC's - "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS"
2. COMPLY WITH THE FOLLOWING PROVISIONS FOR ALL WELDED JOINTS:
   A. AWS D1.1 - "STRUCTURAL STEEL WELDING CODE"
   B. AWS D1.8 - "SEISMIC SUPPLEMENT" FOR CONNECTIONS OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS)
3. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION AS INDICATED BELOW (UNO):

	ASTM SPECIFICATION
ANCHOR RODS	F1554 GR 55 F1554 GR 36/105 (WHERE INDICATED)

4. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS TO THE ENGINEER OF ALL STEEL FOR STRUCTURAL ENGINEER'S REVIEW AND APPROVAL BEFORE FABRICATION.
5. ALL WELDING IS TO BE DONE BY CERTIFIED WELDERS USING E70XX ELECTRODES (UNO). ALL WELDS SHALL BE IN CONFORMITY WITH THE PROJECT SPECIFICATIONS AND THE CODE FOR WELDING IN BUILDING CONSTRUCTION (AWS D1.1 - 15) OF THE AMERICAN WELDING SOCIETY. SEE SPECIAL INSPECTION SECTION FOR WELDING INSPECTION REQUIREMENTS.
6. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC 360 SECTION J2.2b.
7. ALL STRUCTURAL STEEL AND MISCELLANEOUS METAL EXPOSED TO THE WEATHER SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. PROTECT FIELD WELDS EXPOSED TO THE WEATHER VIA PRIME AND PAINT OR BRUSH/COLD GALVANIZING. REFER TO ARCHITECTURAL DRAWINGS FOR STEEL FINISH.
8. DO NOT CUT OR DAMAGE EXISTING REINFORCEMENT. PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED TO REINFORCED CONCRETE/MASONRY USING POST-INSTALLED ANCHORS, LOCATE ALL REINFORCEMENT AND CONFIRM CONSTRUCTABILITY OF ANCHOR LOCATIONS. SHOULD CONFLICTS WITH REINFORCEMENT OCCUR, SUBMIT ALTERNATE ANCHOR LOCATIONS AND REVISED STEEL FABRICATIONS TO ARCHITECT FOR REVIEW AND APPROVAL.
9. BACKUP BARS MAY REMAIN IN PLACE UNLESS NOTED OTHERWISE ON THE DRAWINGS, OR WHEN ULTRASONIC TESTING INDICATES A POSSIBLE WELD DEFECT. IF DEFECTS ARE INDICATED BACKUP BAR IS TO BE REMOVED AND THE ROOT INSPECTED. IF IMPERFECTIONS ARE FOUND, THEY ARE TO BE REMOVED AND REPAIRED PER AWS REQUIREMENTS.
10. THE USE OF E70T-4 WELDING WIRE IS NOT ALLOWED FOR ANY APPLICATION. ALL WELD FILLER METAL SHALL BE OF THE LOW HYDROGEN TYPE.
11. WRITTEN WELDING PROCEDURE SPECIFICATIONS (WPS) PER THE RECOMMENDATION OF THE AMERICAN WELDING SOCIETY (AWS) SHALL BE DEVELOPED BY THE FABRICATOR/ERECTOR AND SUBMITTED FOR REVIEW TO THE ENGINEER PRIOR TO ANY WELDING OF THE STRUCTURAL STEEL. THE WELDING PROCEDURES SHALL INCLUDE ALL THE WELDED JOINTS AND CONFIGURATIONS TO BE USED ON THIS PROJECT-ONLY WPS WHICH ARE RELEVANT TO THIS PROJECT SHALL BE SUBMITTED. ALL WELDED JOINTS SHALL BE PREQUALIFIED PER AWS OR BE QUALIFIED BY TEST PER AWS. A PROCEDURE QUALIFICATION RECORD (PQR) SHALL BE INCLUDED WITH THE WPS IF THE WELDING PROCEDURE OR JOINT IS QUALIFIED BY TESTING. THE ELECTRODE MANUFACTURER AND PRODUCT/TRADE NAME SHALL BE IDENTIFIED IN THE WPS IN ADDITION TO THE AWS ELECTRODE CLASSIFICATION NAME. A COPY OF THE ELECTRODE MANUFACTURER'S TECHNICAL DATA SHEETS WITH THE RECOMMENDED WELDING PARAMETERS SHALL BE SUBMITTED WITH THE WPS.

SPECIAL INSPECTIONS

1. THE FOLLOWING ELEMENTS OF CONSTRUCTION SHALL HAVE CONTINUOUS INSPECTION BY A PROJECT INSPECTOR APPROVED BY THE JURISDICTION.
   A. CONCRETE.
   B. BOLTS INSTALLED IN CONCRETE.
   C. PLACING OF REINFORCING STEEL.
   D. SEE GEOTECHNICAL ENGINEER'S REPORT FOR SPECIFIC INSPECTION REQUIREMENTS BY A SOILS ENGINEER REPRESENTATIVE.
2. ALL SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1704 OF THE CODE AND ANY ADDITIONAL REQUIREMENTS STATED IN THESE DRAWINGS AND/OR THE PROJECT SPECIFICATIONS.
3. OWNER WILL RETAIN A QUALIFIED, INDEPENDENT SPECIAL INSPECTION AGENCY TO PERFORM SPECIAL INSPECTIONS AND TESTS PER CHAPTER 17 OF THE CODE. REFER TO TABLE 1 FOR TESTS AND INSPECTIONS THAT WILL BE PERFORMED.
4. SPECIAL INSPECTOR WILL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL NON-CONFORMING WORK WILL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS.
5. TESTING FREQUENCIES IDENTIFIED IN THE STATEMENT OF SPECIAL INSPECTION ARE DEFINED AS FOLLOWS:
   a. CONTINUOUS: THE FULL-TIME OPERSERVATION OF WORK REQUIRING SPECIAL INSPETION BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
   b. PERIODIC: THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.
   c. OBSERVE: THE SPECAIL INSPECTOR WILL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
   d. PERFORM: THE SPECIAL INSPECTOR WILL PERFORM THESE TASKS FOR EACH ELEMENT.
   e. DOCUMENT: THE SPECIAL INSPECTOR WILL DOCUMENT IN A REPORT THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

REV.	DESCRIPTION	CK'D	APP	DATE
2	PLAN CHECK 2			2/17/26
1	PLAN CHECK 1			8/11/25

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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

STRUCTURAL GENERAL NOTES

DRN. BY:	CC	DES. BY:	KK	CK'D. BY:	-

REGISTERED PROFESSIONAL ENGINEER — DAVID A. TORO — No. S6048 — STRUCTURAL — STATE OF CALIFORNIA

PRINCIPAL ENGINEER — 5 May 2026 — DATE

CITY ENGINEER — 5/7/2026 — DATE

SPEC. NUMBER 2025-010 PROJECT NO. FA11-1061

SEPTEMBER 7, 2025 SHEET 23 OF 151 DWG. NO. 2025-D-010

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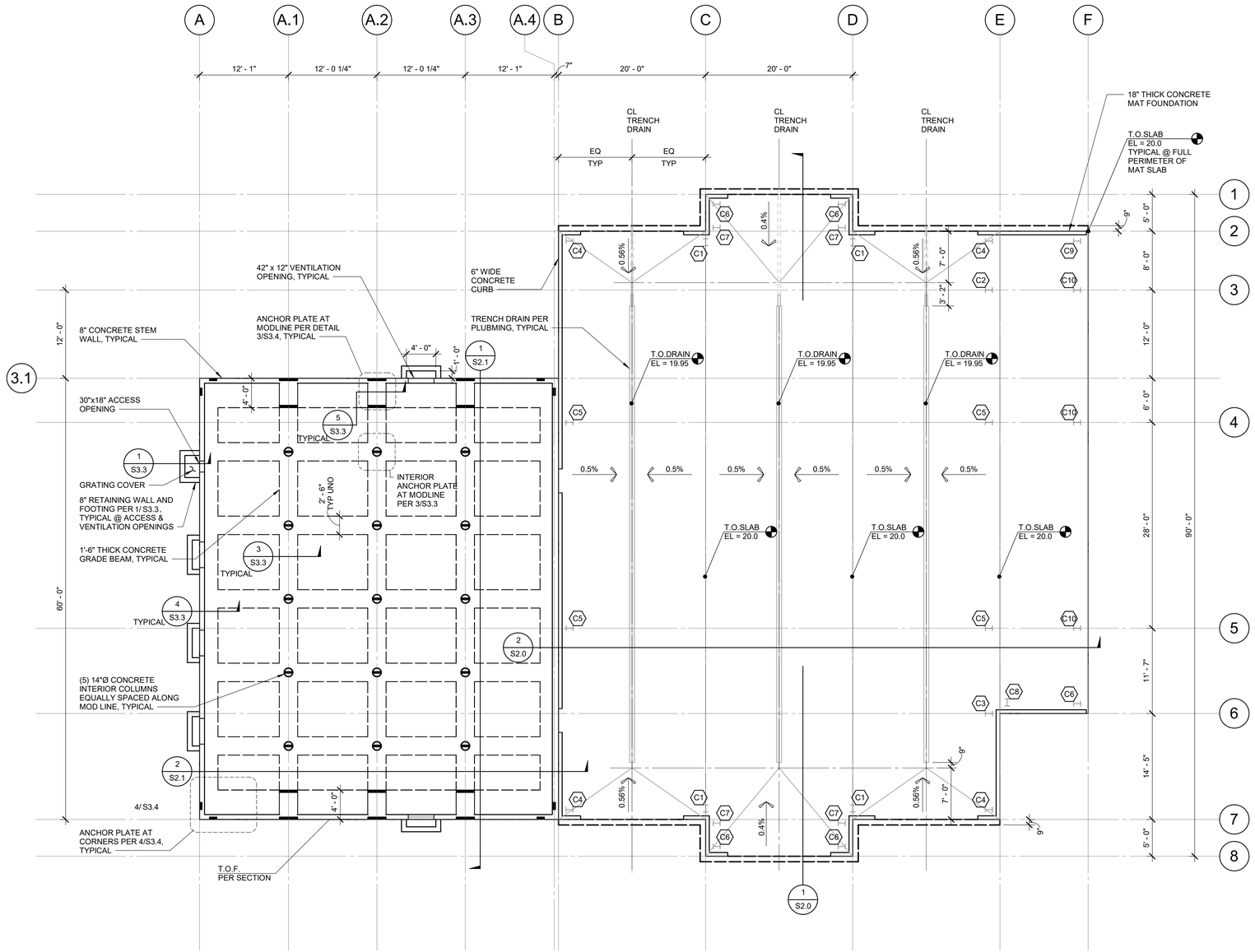

PLAN NOTES

1. SEE SHEETS S0.1 AND S0.2 FOR GENERAL NOTES.
2. SEE SHEETS S3.0 & S3.1 FOR TYPICAL CONCRETE DETAILS.
3. PRE-ENGINEERED METAL BUILDING DESIGN AND CONSTRUCTION SHALL INCLUDE CEILING AND STUD WALLS AT STORAGE ROOM, & STUD WALLS AT PERIMETER,
4. ALL ADDED BAR SHALL BE STAGGERED WITH UNIFORM REINFORCEMENT.
5. CONTRACTOR TO CONSULT WITH SEOR FOR PREFERRED CONSTRUCTION JOINT LOCATIONS.
6. CONTRACTOR SHALL SUBMIT A DRAWING SHOWING ALL OF THE PROPOSED FINAL PREPARATION AND OPENING LOCATIONS TO SEOR FOR APPROVAL PRIOR TO CONCRETE POUR.
7. VERIFY SIZE AND NUMBER OF ANCHOR BOLTS AND THEIR LOCATIONS WITH PRE-ENGINEERING METAL BUILDING DRAWINGS.
8. PRE-ENGINEERED METAL BUILDING DESIGN NOT PART OF FOUNDATION SCOPE.
9. MODULAR BUILDING DESIGN NOT PART OF FOUNDATION SCOPE.

TYPICAL FOUNDATION LEGEND:

- INDICATES CONCRETE GRADE BEAM, SEE PLAN FOR SIZE
- INDICATES CONCRETE RETAINING WALL. SEE PLAN FOR SIZE.
- C# — COLUMN ANCHOR ROD ANCHORAGE DETAILS ON S3.2
- INDICATES TOP OF SLAB
- INDICATES COLUMN LOCATION, REFER TO PRE-ENGINEERED METAL BUILDING DRAWINGS BY OTHERS
- INDICATES SLOPE OF TOP OF SLAB

1 PRE-ENGINEERED METAL BUILDING APPARATUS BAY AND LIVING QUARTERS FOUNDATION PLAN

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

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REV.	DESCRIPTION	CK'D	APP	DATE
2	PLAN CHECK 2			2/17/26
1	PLAN CHECK 1			8/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

FOUNDATION PLAN

DRN. BY:	CC	DES. BY:	KK	CK'D. BY:	-

REGISTERED PROFESSIONAL ENGINEER — DAVID A. TORO — No. 56363 — STRUCTURAL — STATE OF CALIFORNIA

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER	2025-010	PROJECT NO.	FA11-1061
SEPTEMBER 7, 2025	SHEET 24 OF 151	DWG. NO.	2025-D-010

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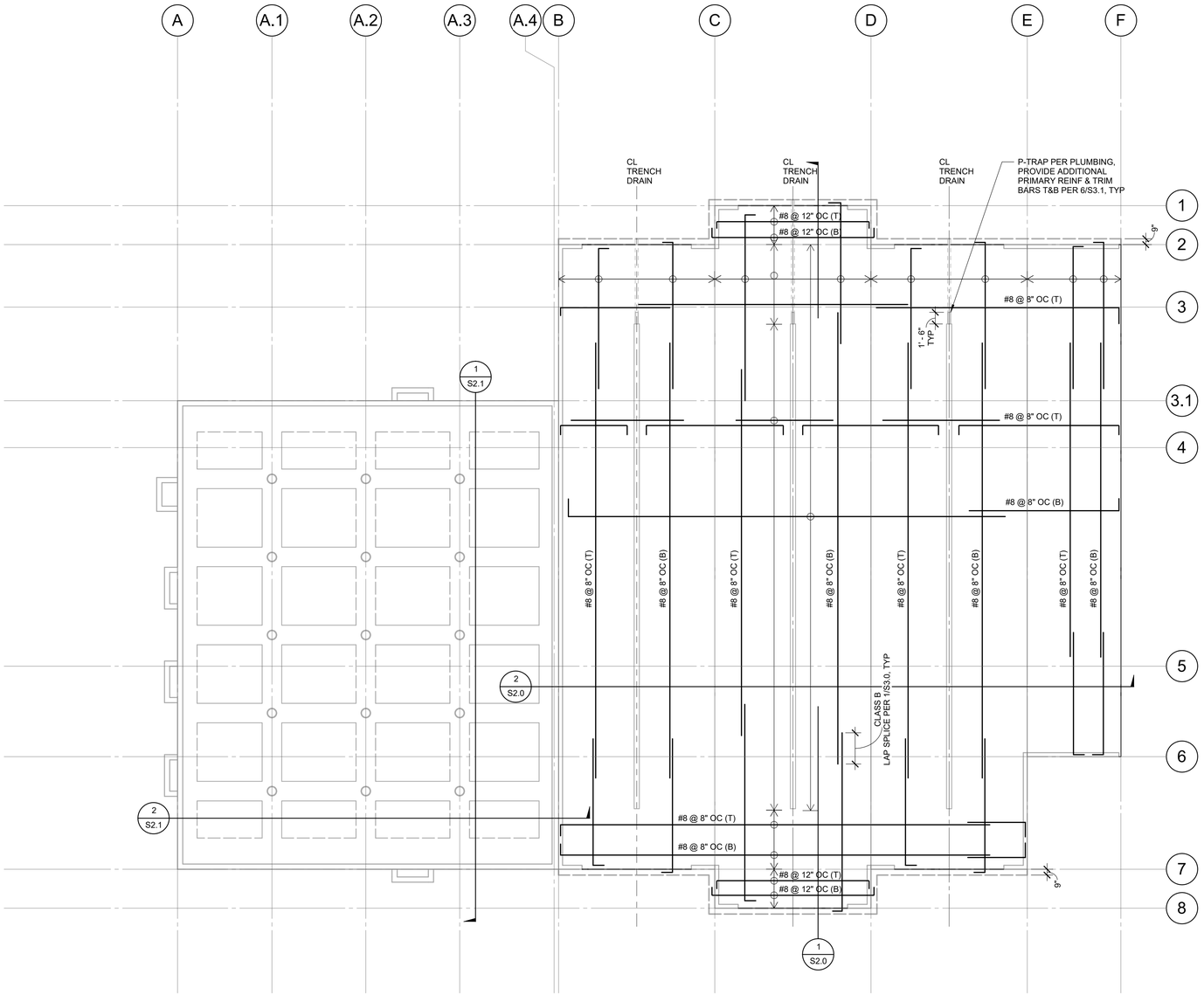
REINFORCING PLAN NOTES

1. FOR TYPICAL SECTION AT STRUCTURAL SLAB SEE SHEET S2.0
2. ALL REINFORCING IN "N-S" DIRECTION TO BE PLACED IN OUTER LAYER.



"N-S"

"E-W"

1 MAT FOUNDATION REINFORCEMENT PLAN

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

REV.	DESCRIPTION	CK'D	APP	DATE
2	PLAN CHECK 2			2/17/26
1	PLAN CHECK 1			8/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

REINFORCING PLAN

DRN. BY:	CC	DES. BY:	KK	CK'D. BY:	-

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER	2025-010	PROJECT NO.	FA11-1061
SEPTEMBER 7, 2025	SHEET 25 OF 151	DWG. NO.	2025-D-010

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REGISTERED PROFESSIONAL ENGINEER DAVID A. TORO No. 58043 STRUCTURAL STATE OF CALIFORNIA

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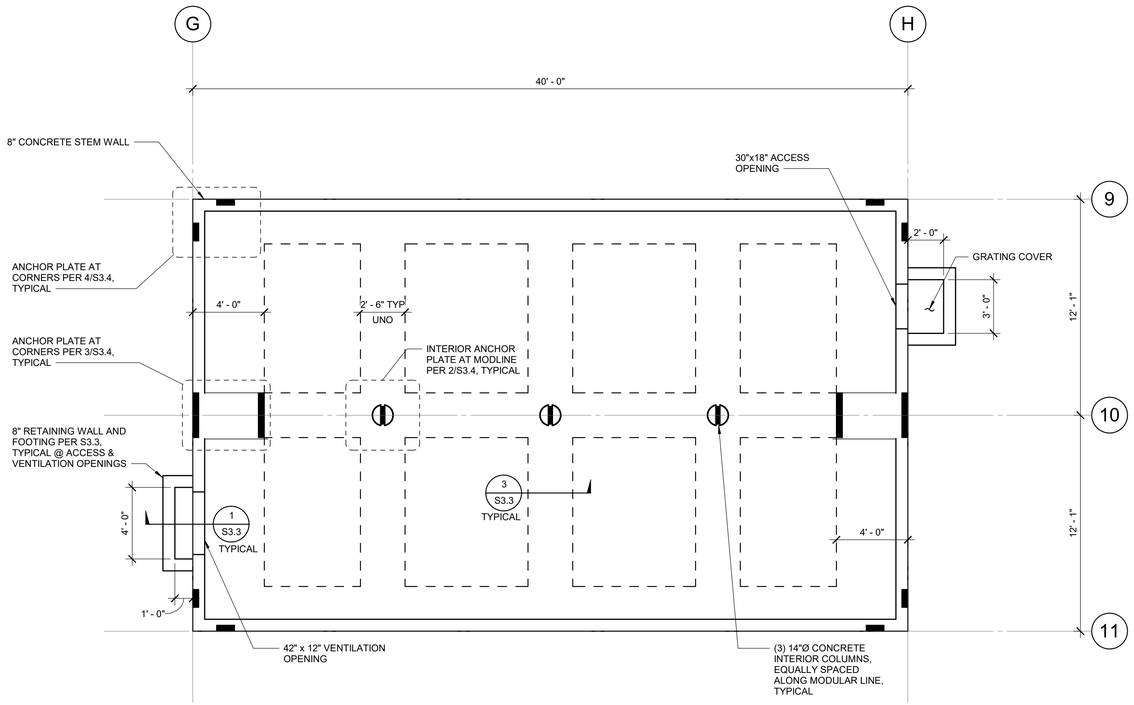
PLAN NOTES

1. SEE SHEETS S0.1 AND S0.2 FOR GENERAL NOTES.
2. SEE SHEETS S3.0 & S3.1 FOR TYPICAL CONCRETE DETAILS.
3. CONTRACTOR SHALL SUBMIT A DRAWING SHOWING ALL OF THE PROPOSED FINAL PREPARATION AND OPENING LOCATIONS TO SEOR FOR APPROVAL PRIOR TO CONCRETE POUR.
4. MODULAR BUILDING DESIGN NOT PART OF FOUNDATION SCOPE.

TYPICAL FOUNDATION LEGEND:

INDICATES CONCRETE GRADE BEAM, SEE PLAN FOR SIZE.

INDICATES CONCRETE RETAINING WALL, SEE PLAN FOR SIZE.



1 MODULAR GYM FOUNDATION

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

REV.	DESCRIPTION	CK'D	APP	DATE
2	PLAN CHECK 2			2/17/26
1	PLAN CHECK 1			8/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

MODULAR GYM FOUNDATION

DRN. BY: Author | DES. BY: Designer | CK'D. BY: Checker

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 | PROJECT NO. FA11-1061

SEPTEMBER 7, 2025 | SHEET 26 OF 151 | DWG. NO. 2025-D-010

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REGISTERED PROFESSIONAL ENGINEER DAVID A. TORO No. S6043 STRUCTURAL STATE OF CALIFORNIA

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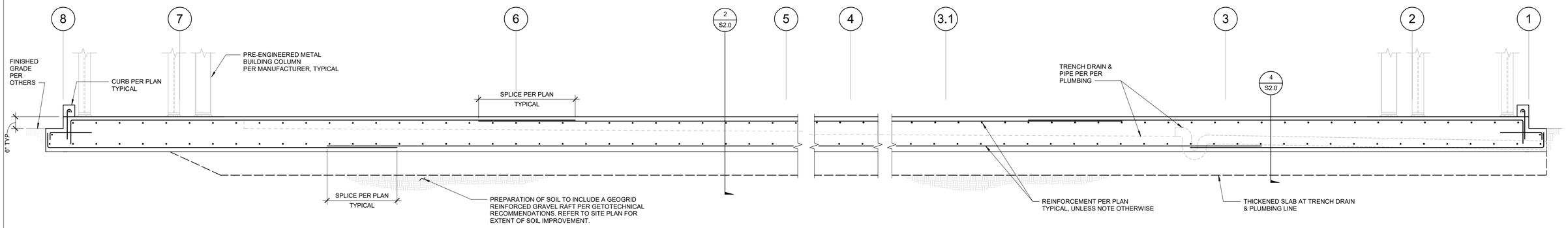
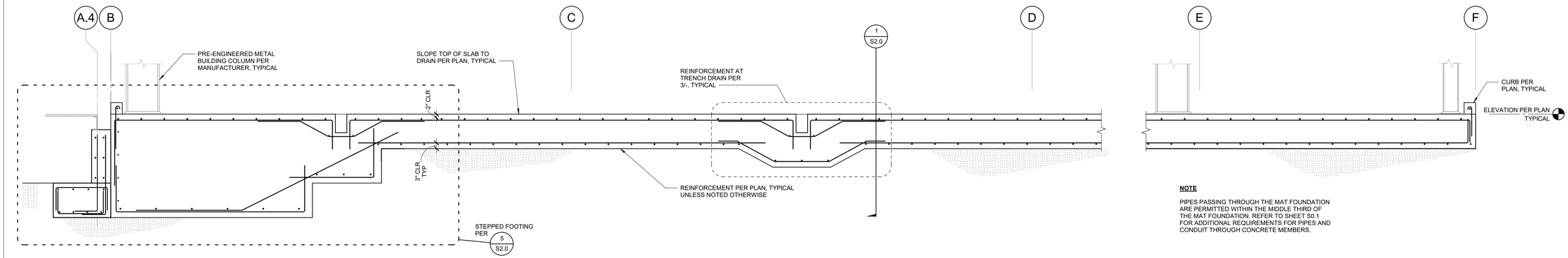


1 APPARATUS BAY MAT FOUNDATION ELEVATION

SCALE : 1/2" = 1'-0"

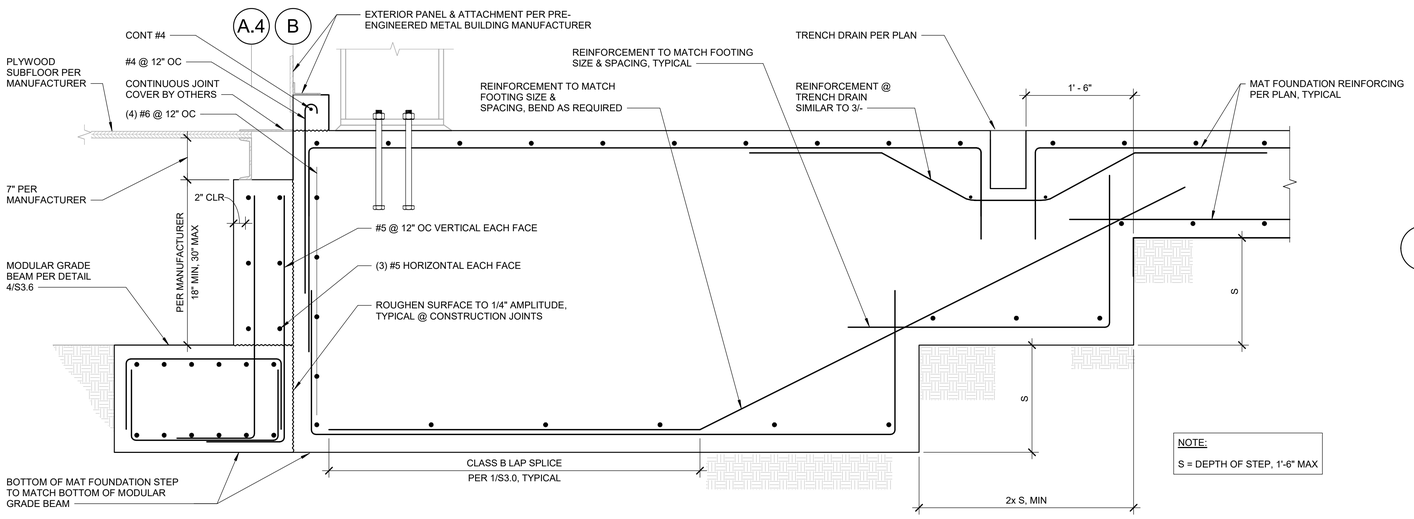


NOTE

PIPES PASSING THROUGH THE MAT FOUNDATION ARE PERMITTED WITHIN THE MIDDLE THIRD OF THE MAT FOUNDATION. REFER TO SHEET S0.1 FOR ADDITIONAL REQUIREMENTS FOR PIPES AND CONDUIT THROUGH CONCRETE MEMBERS.

2 APPARATUS BAY & MODULAR HOUSING ELEVATION

SCALE : 1/2" = 1'-0"

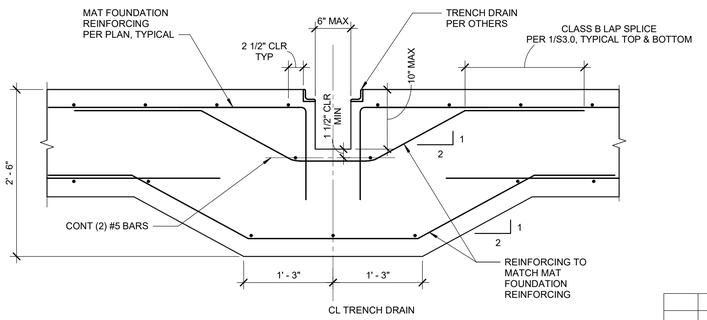


NOTE:

S = DEPTH OF STEP, 1'-6" MAX

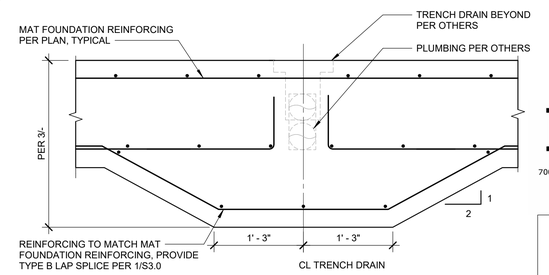
5 STEPPED FOOTING DETAIL

SCALE : 1" = 1'-0"



3 TRENCH DRAIN DETAIL

SCALE : 1" = 1'-0"



4 THICKENED SLAB AT PLUMBING LINES

SCALE : 1" = 1'-0"

REV.	DESCRIPTION	CK'D	APP	DATE
2	PLAN CHECK 2			2/17/26
1	PLAN CHECK 1			8/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

ELEVATIONS

DRN. BY: CC	DES. BY: KK	CK'D. BY: -

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 PROJECT NO. FA11-1061

SEPTEMBER 7, 2025 SHEET 27 OF 151 DWG. NO. 2025-D-010

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REGISTERED PROFESSIONAL ENGINEER DAVID A. TOKE No. S6043 STRUCTURAL STATE OF CALIFORNIA

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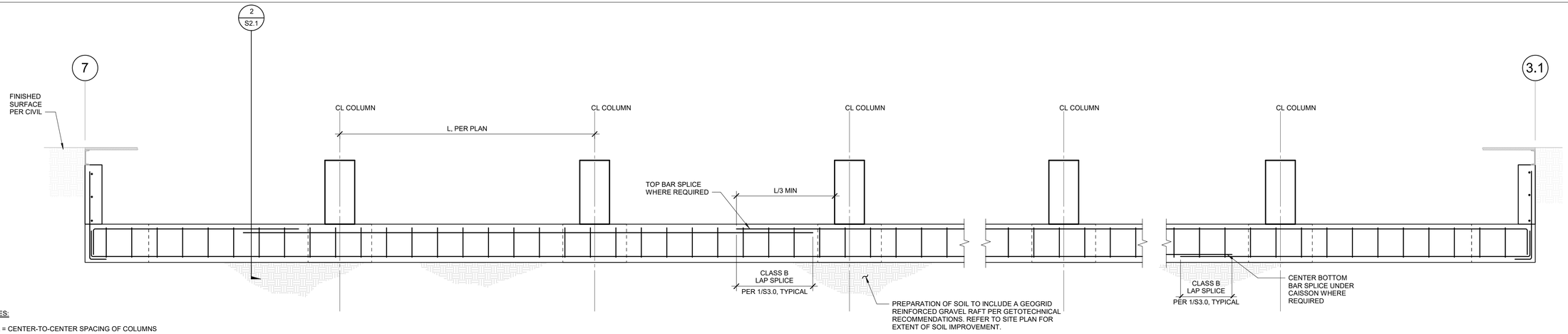
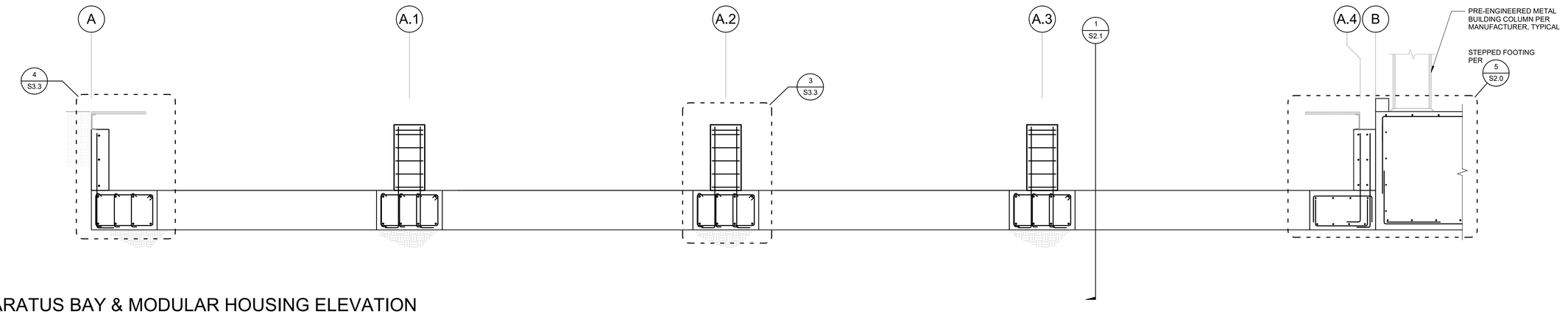


NOTES:

1. L = CENTER-TO-CENTER SPACING OF COLUMNS

1 APPARATUS BAY & MODULAR HOUSING ELEVATION

SCALE : 1/2" = 1'-0"



2 APPARATUS BAY & MODULAR HOUSING ELEVATION

SCALE : 1/2" = 1'-0"

REV.	DESCRIPTION	CK'D	APP	DATE
2	PLAN CHECK 2			2/17/26
1	PLAN CHECK 1			8/11/25

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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

MODULAR ELEVATIONS

DRN. BY:	CC	DES. BY:	KK	CK'D. BY:	-

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER REYNALDO A. TORO No. S6043 STRUCTURAL STATE OF CALIFORNIA

SPEC. NUMBER	2025-010	PROJECT NO.	FA11-1061
SEPTEMBER 7, 2025	SHEET 28 OF 151	DWG. NO.	2025-D-010

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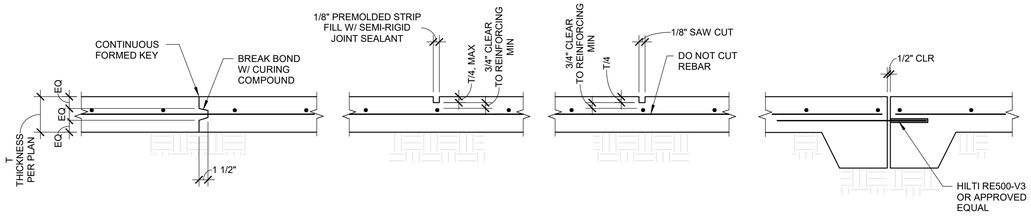


CONSTRUCTION JOINT | FORMED JOINT | SAW-CUT JOINT | EXPANSION/ISOLATION JOINT

CONTROL JOINTS

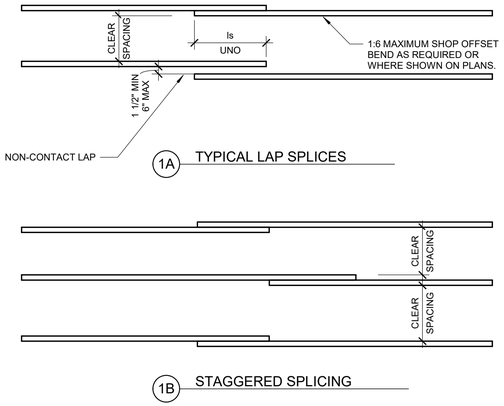
NOTES:

1. CONTROL JOINTS TO BE LOCATED AT COLUMN CENTER LINES AND AT 15'-0" MAX. AND EVERY 225 SQUARE FEET.
2. IF SAW-CUT CONTROL JOINT TO BE USED, SAW-CUT WITHIN 24 HOURS OF POUR.

4 TYPICAL SLAB ON GRADE JOINTS

SCALE : 1" = 1'-0"

REBAR LAP SPLICE LENGTH SCHEDULE					
BAR SIZE	LAP CLASS	NORMAL WEIGHT CONCRETE f'c = 4000 psi			
		Top Bars		Other Bars	
		Case 1	Case 2	Case 1	Case 2
3	A	1'-7"	2'-4"	1'-3"	1'-10"
	B	2'-1"	3'-1"	1'-7"	2'-4"
4	A	2'-1"	3'-1"	1'-7"	2'-5"
	B	2'-9"	4'-1"	2'-1"	3'-1"
5	A	2'-7"	3'-11"	2'-0"	3'-0"
	B	3'-5"	5'-1"	2'-7"	3'-11"
6	A	3'-1"	4'-8"	2'-5"	3'-7"
	B	4'-1"	6'-1"	3'-1"	4'-8"
7	A	4'-6"	6'-9"	3'-6"	5'-3"
	B	5'-11"	8'-10"	4'-6"	6'-9"
8	A	5'-2"	7'-9"	4'-0"	6'-0"
	B	6'-9"	10'-1"	5'-2"	7'-9"
9	A	5'-10"	8'-9"	4'-6"	6'-9"
	B	7'-7"	11'-4"	5'-10"	8'-9"
10	A	6'-7"	9'-10"	5'-1"	7'-7"
	B	8'-6"	12'-9"	6'-7"	9'-10"
11	A	7'-3"	10'-11"	5'-7"	8'-5"
	B	9'-6"	14'-2"	7'-3"	10'-11"



1A TYPICAL LAP SPLICES

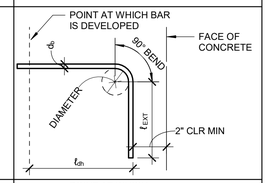
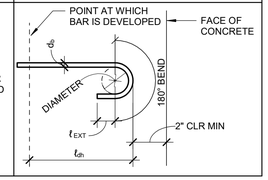
1B STAGGERED SPLICING

NOTES:

1. CASES 1 AND 2 WHICH DEPEND ON CLEAR CONCRETE COVER AND THE CENTER-TO-CENTER SPACING OF THE BARS ARE DEFINED AS:
   CASE 1: COVER AT LEAST 1db AND CLEAR SPACING AT LEAST 2db.
   CASE 2: COVER LESS THAN 1db OR CLEAR SPACING LESS THAN 2db.
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
3. OTHER BARS INCLUDE VERTICAL BARS AND HORIZONTAL BARS WITH LESS THAN 12 INCHES OF CONCRETE CAST BELOW HORIZONTAL BARS.
4. BAR SPLICES NOT COVERED BY THIS SCHEDULE ARE SPECIFICALLY DETAILED AND DIMENSIONED PER PLANS.
5. ALL SPLICES SHALL BE CLASS 'B' UNLESS OTHERWISE ON PLANS.
6. FOR DEVELOPMENT LENGTH, Ld, USE CLASS 'A' LAP SPLICE LENGTH.
7. FOR LAP SPLICES OF BARS IN SHEAR WALLS, REFER TO LAP SPLICE AND DEVELOPMENT SCHEDULE IN CONCRETE WALL ELEVATIONS.
8. THIS SCHEDULE IS FOR GR 60 REINFORCEMENT.
9. CAN USE 1.25 x LAP SPLICE IN LIEU OF NOTE 7 AT SHEAR WALLS.
10. FOR STAGGERED SPLICES, CLEAR SPACING SHOWN IN DIAGRAM MAY BE USED TO DETERMINE CASE 1 OR CASE 2 PER NOTE 1

1 DEVELOPMENT AND LAP SPLICE OF CONCRETE REINFORCEMENT BARS- NW CONCRETE

SCALE : 12" = 1'-0"

TYPE OF STANDARD HOOK	BAR SIZE	MINIMUM INSIDE BEND DIAMETER, IN	STRAIGHT EXTENSION [1] ℓ_{EXT}, IN	TYPE OF STANDARD HOOK
90-DEGREE HOOK	#3 THROUGH #8	$6d_b$	$12d_b$	
	#9 THROUGH #11	$8d_b$		
	#14 THROUGH #18	$10d_b$		
180-DEGREE HOOK	#3 THROUGH #8	$6d_b$	GREATER OF $4d_b$ AND 2.5 IN	
	#9 THROUGH #11	$8d_b$		
	#14 THROUGH #18	$10d_b$		

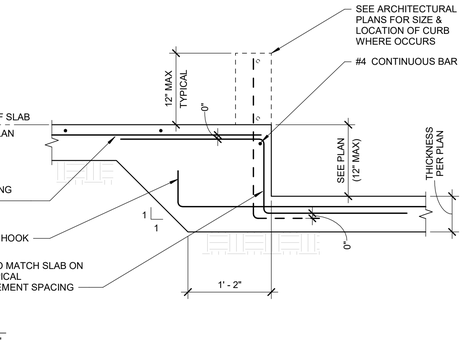
STANDARD HOOK DEVELOPMENT LENGTH "l_{dh}"			
			NORMAL WEIGHT
BAR SIZE	D	"l_h"	4000
#3	2 1/4"	5"	0'-8"
#4	3"	8"	0'-10"
#5	3 3/4"	10	1'-0"
#6	4 1/2"	12	1'-3"
#7	5 1/4"	1'-2"	1'-5"
#8	6"	1'-4"	1'-7"
#9	9 1/2"	1'-7 1/2"	1'-10"
#10	10 3/4"	1'-10"	2'-1"
#11	12"	2'-0 1/2"	2'-3"

NOTES:

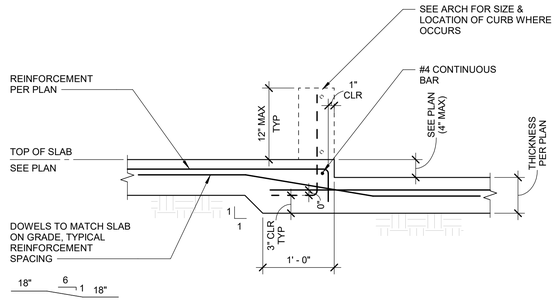
1. ACI 318-14 TABLE 25.3.2.
2. ALL HOOKED BARS SHALL EXTEND AS FAR AS POSSIBLE WITH A MINIMUM 2" END COVER AND WITH EMBEDMENT NOT LESS THAN SHOWN ON THE SCHEDULE. UNO ON PLANS.

2 STANDARD HOOK DEVELOPMENT LENGTH BENDING DETAIL

SCALE : 1" = 1'-0"



5A STEP IN SLAB ON GRADE (12" MAX)



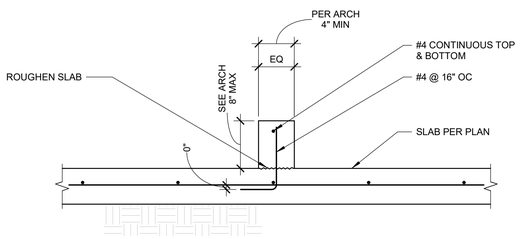
5B STEP IN SLAB ON GRADE (4" MAX)

5 SLAB ON GRADE DEPRESSIONS

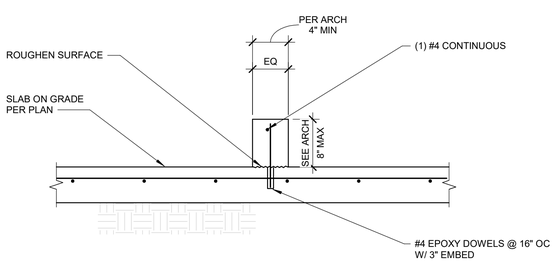
SCALE : 1" = 1'-0"

NOTES:

1. SEE GENERAL NOTES FOR EPOXY.
2. USE NON-DESTRUCTIVE METHODS TO LOCATE EXISTING REINFORCING BARS. DO NOT CUT EXISTING REINFORCING BARS WHICH MAY CONFLICT WITH ANCHOR LOCATION.



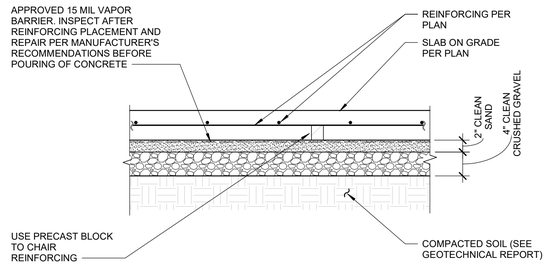
6A CURB AT SLAB ON GRADE



6B EPOXY DOWELED CONCRETE CURB

6 TYPICAL CURB DETAILS

SCALE : 1" = 1'-0"



NOTES:

1. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR SHALL TAKE CARE NOT TO PUNCTURE VAPOR RETARDER DURING CONSTRUCTION OF SLAB ON GRADE.
3. PROVIDE VAPOR RETARDER AT AREAS AND WITH EXTENTS/TERMINATIONS AS SPECIFIED BY ARCHITECT.
4. VAPOR RETARDER AND/OR GRAVEL LAYER MAY BE OMITTED AT PARKING/DRIVE ISLE AREAS. GEOTECHNICAL ENGINEER SHALL CONFIRM BASED ON FIELD TESTING OF IN-SITU SOILS.

3 TYPICAL VAPOR BARRIER DETAIL

SCALE : 1" = 1'-0"

REV.	DESCRIPTION	CK'D	APP	DATE
2	PLAN CHECK 2			2/17/26
1	PLAN CHECK 1			8/11/25

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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

TYPICAL CONCRETE DETAILS

DRN. BY: CC	DES. BY: KK	CK'D. BY: -

REGISTERED PROFESSIONAL ENGINEER — JOSHUA A. TOM — No. S6043 — STRUCTURAL — STATE OF CALIFORNIA

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010 | PROJECT NO. FA11-1061

SEPTEMBER 7, 2025 | SHEET 29 OF 151 | DWG. NO. 2025-D-010

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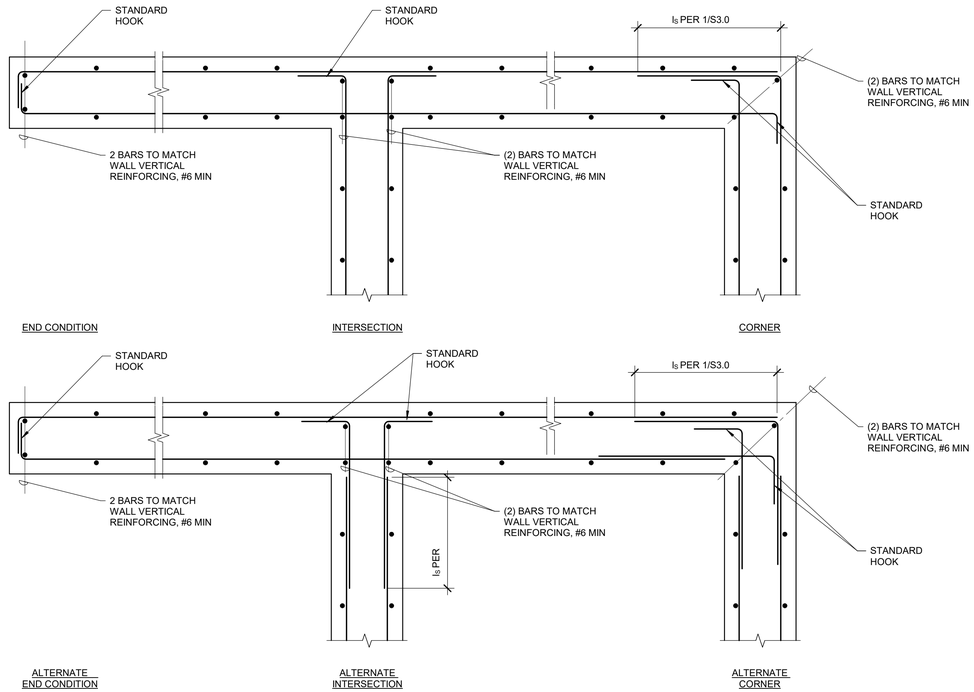


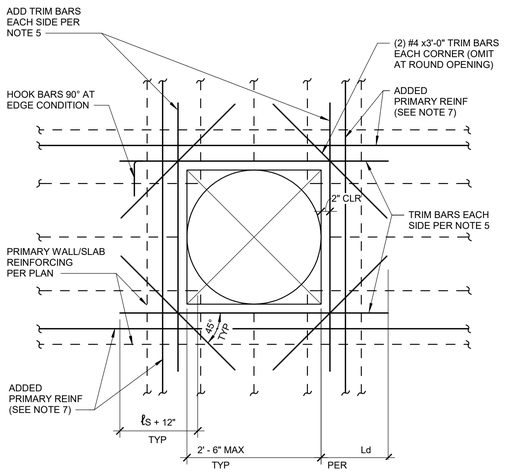
DOUBLE LAYER REINFORCING

NOTE:

REINFORCEMENT SHOWN ON WALL ELEVATIONS AND OTHER SPECIFICALLY REFERENCED DETAILS TAKE PRECEDENCE OVER REINFORCEMENT SHOWN HERE.

4 PLAN - CONCRETE WALL & FOOTING DETAIL

SCALE : 1" = 1'-0"

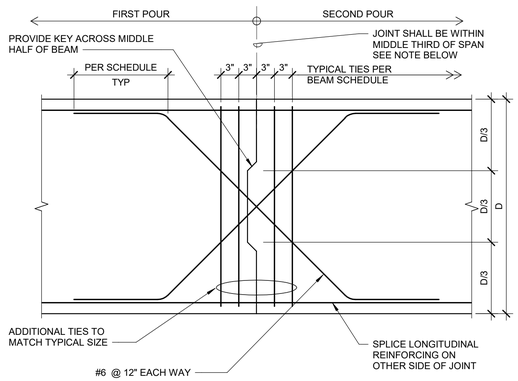


NOTES:

1. THIS DETAIL INDICATES MINIMUM REINFORCING FOR OPENING NOT DETAILED ELSEWHERE IN THESE DRAWINGS.
2. CLUSTERS OF SMALL HOLES WHOSE OVERALL MEASUREMENT EXCEEDS 1'-0" SHOULD BE REINFORCED AS ONE OPENING.
3. NO OPENING IN SLAB TO BE LOCATED CLOSER THAN 2'-0" CLEAR FROM COLUMN FACE UNLESS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
4. TRIM BARS AT EACH SIDE OF OPENING TO MATCH SIZE AND QUANTITY OF PRIMARY REINFORCEMENT BARS INTERRUPTED DUE TO OPENING, MIN (2) #5 EACH SIDE (EACH FACE FOR WALLS, TOP & BOTTOM FOR SLABS).
5. ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE STRUCTURAL ENGINEER OF RECORD'S ATTENTION BY THE CONTRACTOR PRIOR TO PERFORMING WORK.
6. ADD REINFORCING EQUAL TO INTERRUPTED REINFORCING ON EACH SIDE OF OPENING, TYPICAL. SPACE ADDED BARS AT 3" ON CENTER.

6 CONC WALL/SLAB OPENING DETAIL

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



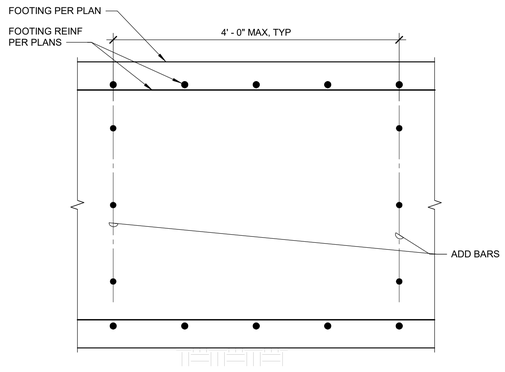
ELEVATION

NOTE:

CONTRACTOR TO SUBMIT LOCATIONS OF CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER FOR APPROVAL.

5 CONC BEAM CONSTRUCTION JOINT

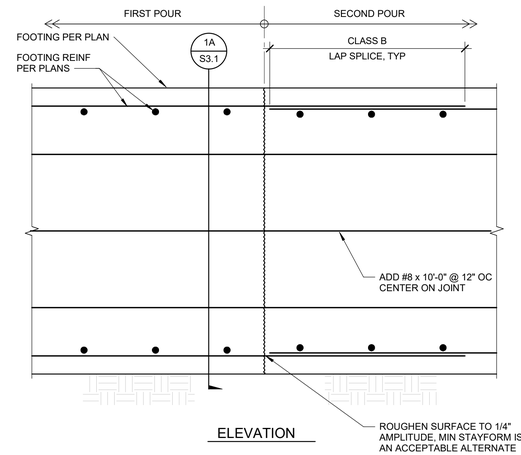
SCALE : 1" = 1'-0"



1A SECTION AT FOOTING CONSTRUCTION JOINT

NOTES:

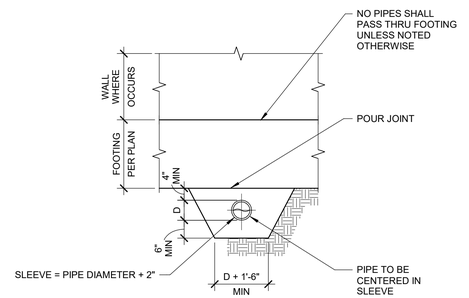
1. LOCATE CONSTRUCTION JOINT IN MIDDLE 1/3 OF THE DISTANCE BETWEEN COLUMNS.
2. CONTRACTOR TO SUBMIT LOCATIONS OF CONSTRUCTION JOINTS TO SEOR FOR APPROVAL.



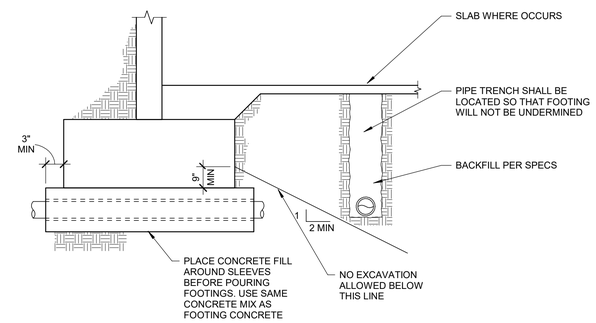
ELEVATION

1 CONSTRUCTION JOINT AT MAT FOUNDATION

SCALE : 1" = 1'-0"



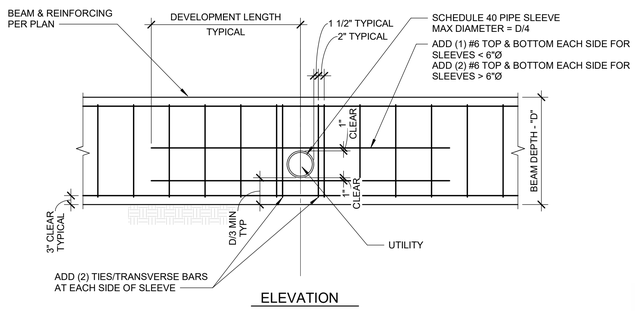
ELEVATION



SECTION

2 PIPE TRENCH BELOW & ADJACENT TO FOOTING DETAIL

SCALE : 1" = 1'-0"



ELEVATION

NOTES:

1. SEE PLANS FOR SIZE & LOCATION OF SLEEVES.
2. PENETRATIONS NOT SHOWN ON THE DOCUMENTS MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
3. PIPE SLEEVE MUST PROVIDE 1" CLEAR MIN AROUND UTILITY LINE.
4. WHERE SLEEVE IS OUTSIDE D/3 ALERT STRUCTURAL ENGINEER OF RECORD.

3 GRADE BEAM PENETRATION DETAIL

SCALE : 1/2" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER — DAVID A. TORO — No. S6043 — STRUCTURAL — STATE OF CALIFORNIA

REV.	DESCRIPTION	CK'D	APP	DATE
2	PLAN CHECK 2			2/17/26
1	PLAN CHECK 1			8/11/25

PUBLIC WORKS DEPARTMENT — ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

TYPICAL CONCRETE DETAILS

DRN. BY:	CC	DES. BY:	KK	CK'D. BY:	-

PRINCIPAL ENGINEER — 5 May 2026 — DATE

CITY ENGINEER — 5/7/2026 — DATE

SPEC. NUMBER	2025-010	PROJECT NO.	FA11-1061
SEPTEMBER 7, 2025	SHEET 30 OF 151	DWG. NO.	2025-D-010

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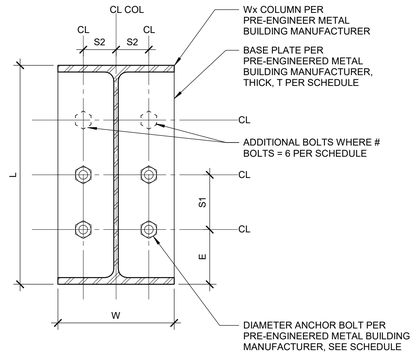


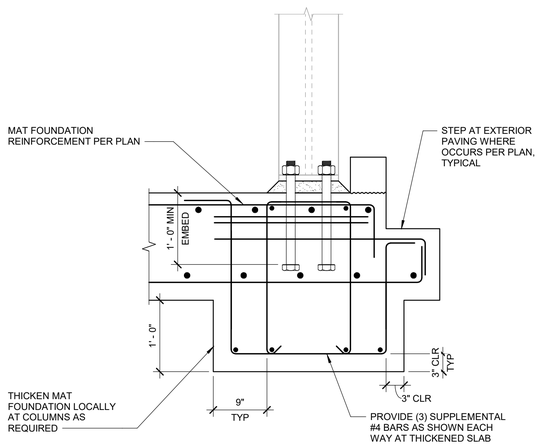
1D TYPICAL BASE PLATE PLAN
3" = 1'-0"

BASE PLATE SCHEDULE

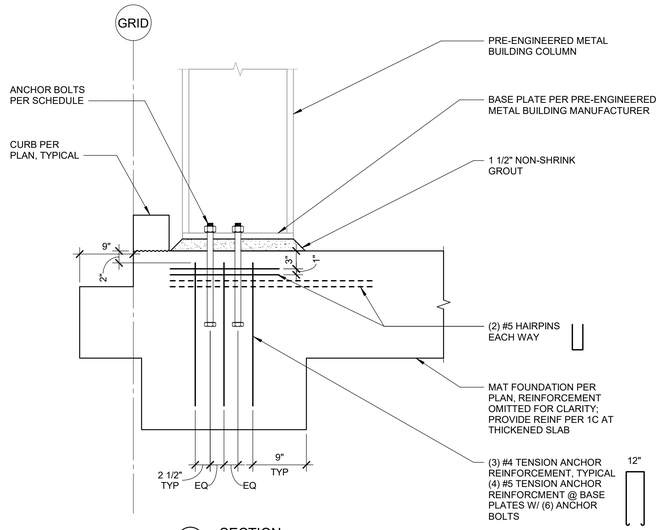
	L	W	E	S1	S2	S3	S4	ANCHOR BOLTS
C1	8"	5"	2"	4"	1 1/2"	10"	N/A	(4) 5/8" Ø HEX HEAD GR 36
C2	17"	10"	3"	5 1/2"	2 3/4"	11"	N/A	(6) 1 3/8" Ø HEAVY HEX HEAD GR 105
C3	16"	10"	3"	5 1/2"	2 3/4"	11"	N/A	(6) 1 1/4" Ø HEAVY HEX HEAD GR 105
C4	17"	10"	3"	5 1/2"	2 3/4"	11"	9 1/4"	(6) 1 1/4" Ø HEAVY HEX HEAD GR 105
C5	18"	11"	3"	6"	3"	11"	N/A	(6) 1 1/2" Ø HEAVY HEX HEAD GR105
C6	9 7/8"	6"	3"	4"	2"	11"	9"	(4) 3/4" Ø HEX HEAD GR 55
C7	9 7/8"	6"	3"	4"	2"	11"	N/A	(4) 3/4" Ø HEX HEAD GR 55
C8	8"	6"	2"	4"	2"	10"	10"	(4) 3/4" Ø HEX HEAD GR 36
C9	10 3/16"	6"	3"	4"	2"	11"	10"	(4) 3/4" Ø HEX HEAD GR 36
C10	9 7/8"	9"	3"	4 1/2"	2 1/4"	11"	N/A	(4) 1 1/8" Ø HEX HEAD GR 105

NOTES:

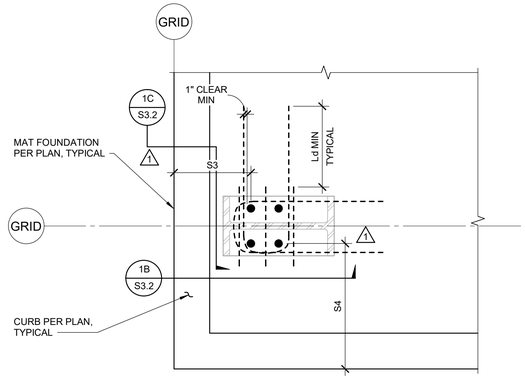
1. FOUNDATION DESIGN ASSUMPTIONS BASED ON TOP COLUMN BEING BRACED AT THE ROOF.
2. SEE NOTE #7 ON PLAN NOTES.
3. ANCHOR REINFORCING CONSISTS OF BOTH HAIRPINS & TENSION ANCHOR REINFORCEMENT.
4. REFER TO PRE-ENGINEERED METAL BUILDING DRAWINGS FOR BASE PLATE ORIENTATION.
5. ALL ANCHOR BOLTS SHALL BE ASTM F 1554, GALVANIZED.



1C SECTION



1B SECTION



1A PLAN VIEW

1 BASE PLATE DETAIL

REV.	DESCRIPTION	CK'D	APP	DATE
2	PLAN CHECK 2			2/17/26
1	PLAN CHECK 1			8/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

PEMB ANCHORAGE DETAILS

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DRN. BY: Author | DES. BY: Designer | CK'D. BY: Checker

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010 | PROJECT NO. FA11-1061

SEPTEMBER 7, 2025 | SHEET 31 OF 151 | DWG. NO. 2025-D-010

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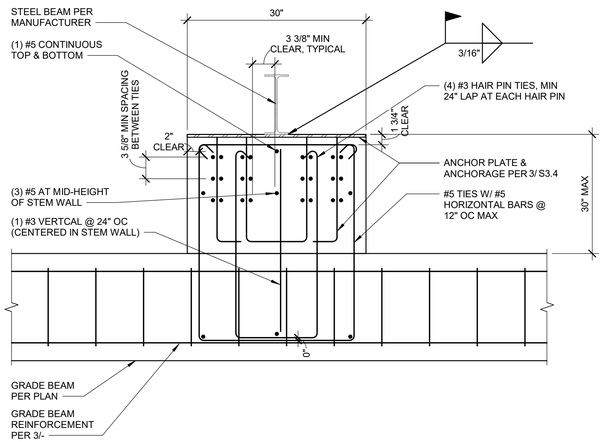

5 INTERIOR SECTION AT MODLINE

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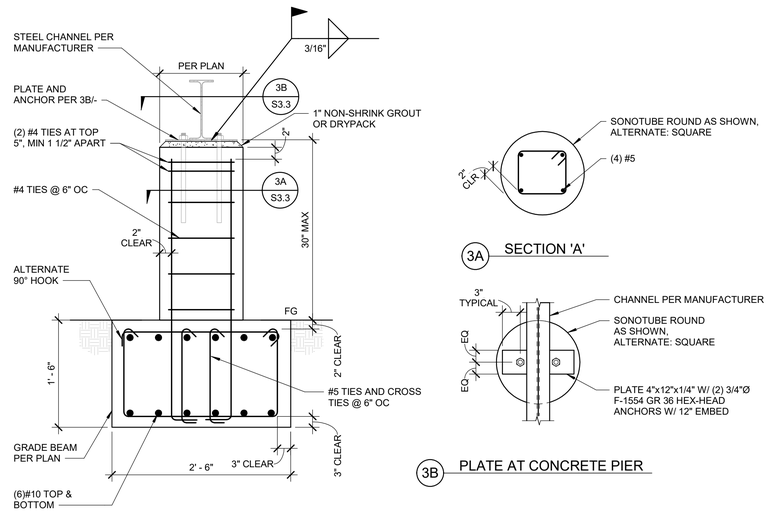
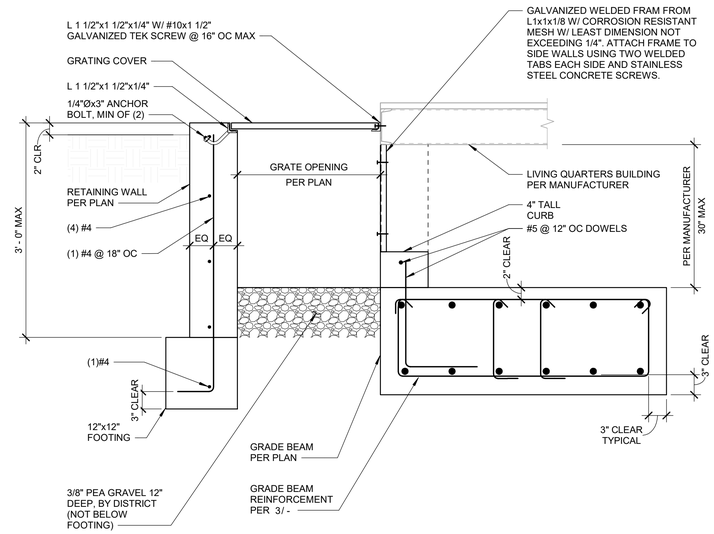


3 INTERIOR SECTION AT MODLINE

SCALE : 1" = 1'-0"



1 DETAIL

SCALE : 1" = 1'-0"

4 DETAIL

SCALE : 1" = 1'-0"

2 DETAIL

SCALE : 1" = 1'-0"

REV.	DESCRIPTION	CK'D	APP	DATE
2	PLAN CHECK 2			2/17/26
1	PLAN CHECK 1			8/11/25

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INTERIM FIRE STATION NO. 7

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REGISTERED PROFESSIONAL ENGINEER — DAVID A. TORO — No. 56043 — STRUCTURAL — STATE OF CALIFORNIA

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010 | PROJECT NO. FA11-1061

SEPTEMBER 7, 2025 | SHEET 32 OF 151 | DWG. NO. 2025-D-010

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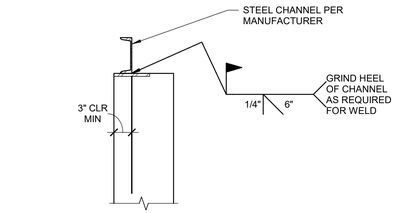
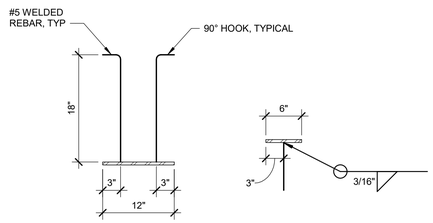


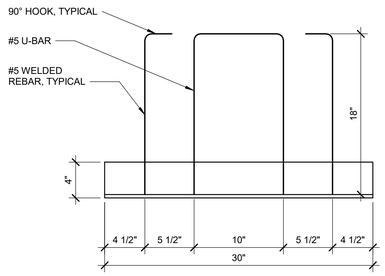
5A ANCHOR PLATE CONNECTION

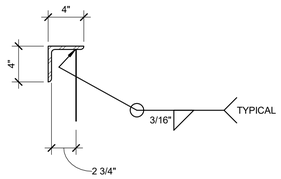


5B ANCHOR PLATE ELEVATIONS

5 ANCHOR PLATE AT GRID A.4 DETAIL

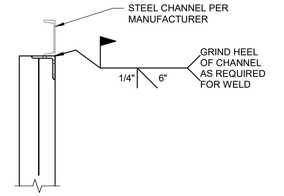
SCALE : 1" = 1'-0"



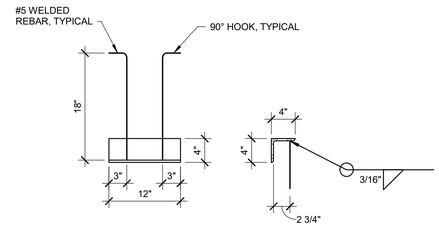


3 ANCHOR PLATE AT MODLINE DETAIL

SCALE : 1 1/2" = 1'-0"



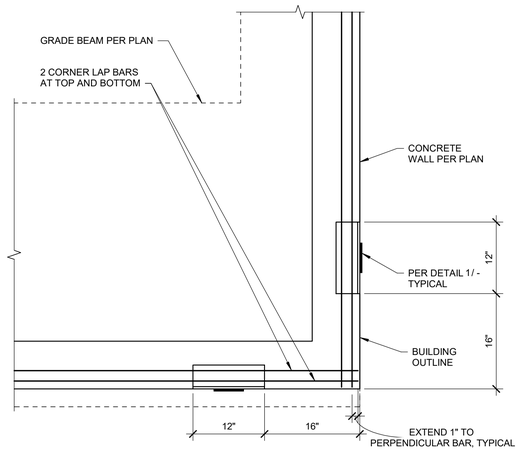
1A ANCHOR PLATE CONNECTION



1B ANCHOR PLATE ELEVATIONS

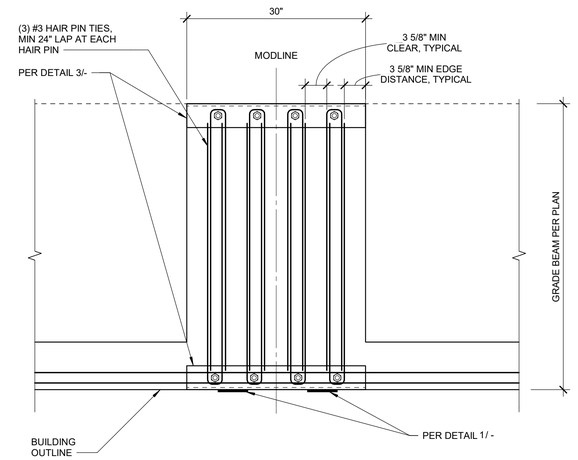
1 ANCHOR PLATE DETAIL

SCALE : 1" = 1'-0"



4 ANCHOR PLATE AT CORNER DETAIL

SCALE : 1" = 1'-0"



2 ANCHOR PLATE AT MODLINE DETAIL

SCALE : 1" = 1'-0"

REV.	DESCRIPTION	CK'D	APP	DATE
2	PLAN CHECK 2			2/17/26
1	PLAN CHECK 1			8/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

MODULAR DETAILS

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REGISTERED PROFESSIONAL ENGINEER — DAVID A. TORO — No. 58048 — STRUCTURAL — STATE OF CALIFORNIA

DRN. BY: Author	DES. BY: Designer	CK'D. BY: Checker

PRINCIPAL ENGINEER — 5 May 2026 — DATE

CITY ENGINEER — 5/7/2026 — DATE

SPEC. NUMBER 2025-010 | PROJECT NO. FA11-1061

SEPTEMBER 7, 2025 | SHEET 33 OF 151 | DWG. NO. 2025-D-010

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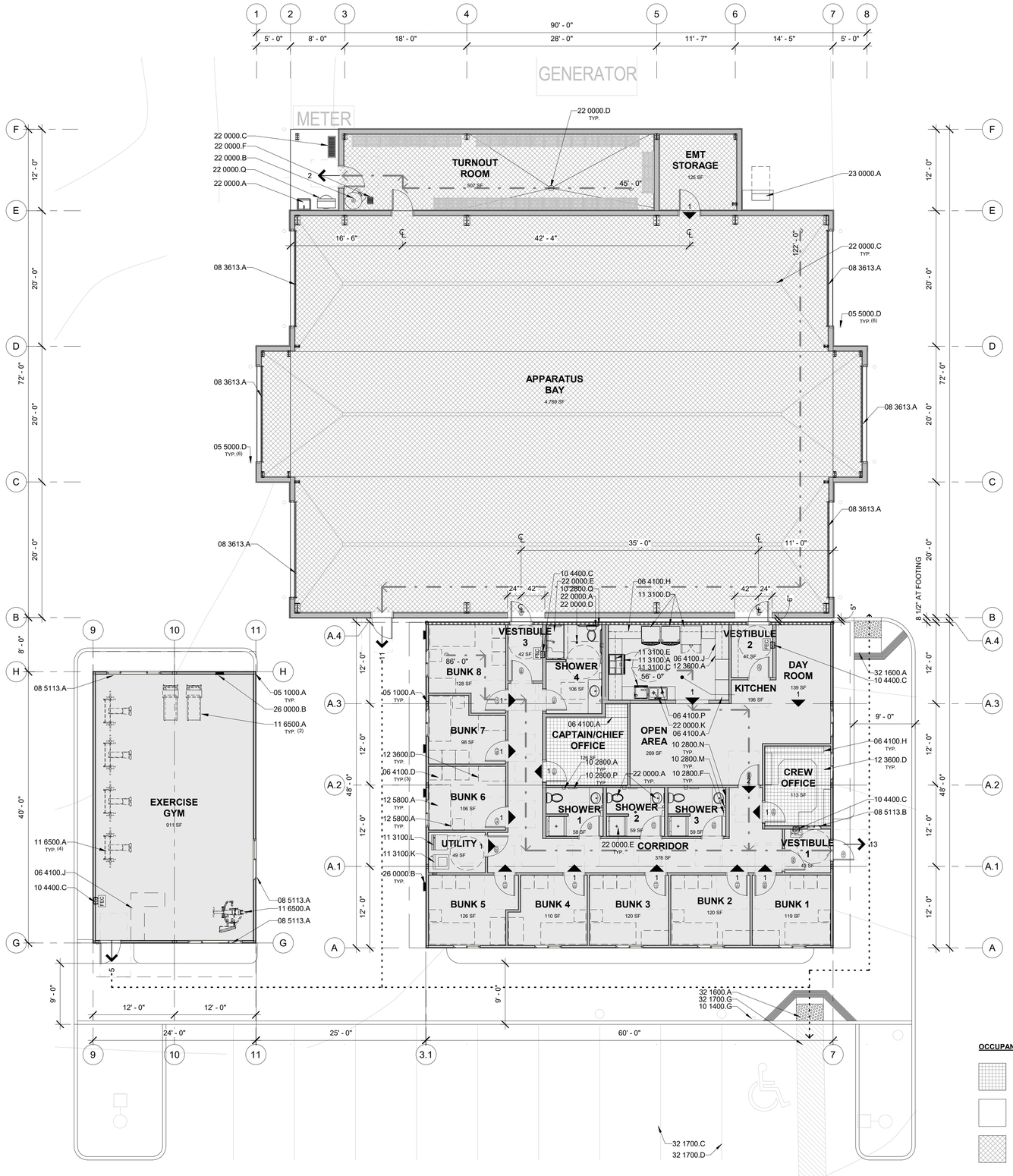

OCCUPANCY GROUP LEGEND

- B
- R-2
- S-2

1 GROUND FLOOR PLAN

A-101 SCALE: 1/8" = 1'-0"

LEGEND

WALL SEPARATION SYMBOLS:

1-HOUR RATED FIRE PARTITION W/ MIN. STC 50
(PROTECTION CONTINUOUS TO RATED CEILING ABOVE)

OCCUPANT LOADS AND EGRESS:

ACCESSIBLE PATH OF TRAVEL
(SHALL BE 48" MIN. WIDE PER CBC 11B-403.5)

COMMON PATH OF EGREES TRAVEL (CPET)
WITH MAXIMUM TRAVEL DISTANCE FROM REMOTE POINT
125' MAX. DISTANCE PER ***2025 CBC TABLE 1006.2.1*** [R-2 OCCUPANCIES]
75' MAX. DISTANCE PER ***2025 CBC TABLE 1006.3.4(2)*** [OCCUPANCIES OTHER THAN R-2 AND R-3]

1 — NUMBER OF OCCUPANTS EXITING SPACE PER CODE PLAN SHEET PAGE 20

20 — OCCUPANT LOAD AT EXIT PER CODE PLAN SHEET PAGE 20

FIRE PROTECTION FEATURES:

FEC — FIRE EXTINGUISHER & RECESSED CABINET
2A-10B-C RATING

KEYNOTES

05 1000.A	STEEL COLUMN REFER TO STRUCTURAL
05 5000.D	CONCRETE FILLED METAL BOLLARD
06 4100.A	FULL HT. CABINETS W/ ADJUSTABLE SHELVING & DOORS
06 4100.D	WARDROBE LOCKERS W/CLOTHES ROD, SHELF, DRAWERS & LOCKABLE DOORS
06 4100.H	UPPER CABINETS W/DOORS & ADJUSTABLE SHELVING
06 4100.J	BASE CABINETS W/ DRAWERS, DOORS & ADJUSTABLE SHELVING
06 4100.P	ACCESSIBLE SINK BASE CABINET
08 3613.A	SECTIONAL DOOR
08 5113.A	ALUMINUM WINDOW. REFER TO WINDOW SCHEDULE
08 5113.B	ALUM. WINDOW W/SLIDING TRANSACTION WINDOW
10 1400.G	ACCESSIBLE PARKING SIGNAGE
10 2800.A	SEMI-RECESSED TOILET PAPER DISPENSER
10 2800.F	SURFACE MOUNTED PAPER TOWEL DISPENSER
10 2800.M	SOAP DISPENSER
10 2800.N	MIRROR
10 2800.P	SEAT COVER DISPENSER
10 2800.Q	GRAB BAR
10 4400.C	SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER
11 3100.A	OVEN / RANGE
11 3100.C	DISHWASHER
11 3100.D	REFRIGERATOR
11 3100.E	VENT HOOD, REFER TO MECHANICAL
11 3100.K	WASHER
11 3100.L	DRYER
11 6500.A	ATHLETIC EQUIPMENT, OFOI.
12 3600.A	STAINLESS STEEL COUNTERTOP WITH MARINE EDGE
12 3600.D	PLASTIC LAMINATE COUNTERTOP & BACKSPLASH
12 5800.A	FURNITURE, OFOI.
22 0000.A	PLUMBING FIXTURE. REFER TO PLUMBING
22 0000.B	WATER HEATER. REFER TO PLUMBING
22 0000.C	TRENCH DRAIN SYSTEM. REFER TO PLUMBING
22 0000.D	FLOOR DRAIN. REFER TO PLUMBING
22 0000.E	SHOWER PAN. REFER TO PLUMBING
22 0000.F	FLOOR SINK. REFER TO PLUMBING
22 0000.K	KITCHEN SINK. REFER TO PLUMBING
22 0000.Q	AIR COMPRESSOR. REFER TO PLUMBING.
23 0000.A	MECHANICAL EQUIPMENT. REFER TO MECHANICAL
26 0000.B	ELECTRICAL PANEL. REFER TO ELECTRICAL
32 1600.A	ACCESSIBLE CURB RAMP. REFER TO CIVIL
32 1700.C	PARKING SPACE STRIPING. REFER TO CIVIL
32 1700.D	ACCESSIBLE PARKING SPACE STRIPING. REFER TO CIVIL
32 1700.G	ACCESSIBLE WALKWAY STRIPING. REFER TO CIVIL

WALL TYPES

8" METAL GIRT WALL WITH EXTERIOR METAL WALL PANELS PER STEEL BUILDING MANUFACTURER.

WOOD STUD WALL PER MODULAR MANUFACTURER.

1-HOUR WOOD STUD WALL PER MODULAR MANUFACTURER.

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AGENCY

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

CONSTRUCTION DOCUMENTS

VENTURA INTERIM FIRE STATION
2269 ALESSANDRO DR. VENTURA, CA 93001

COMPOSITE FLOOR PLAN

NO.	REVISION	DATE

PROJECT MANAGER: MS
DRAWN BY: DP
CHECKED BY: KH
DATE: 04.10.2026
PROJECT NUMBER: FA11-1061
SHEET: SHEET 34 OF 151

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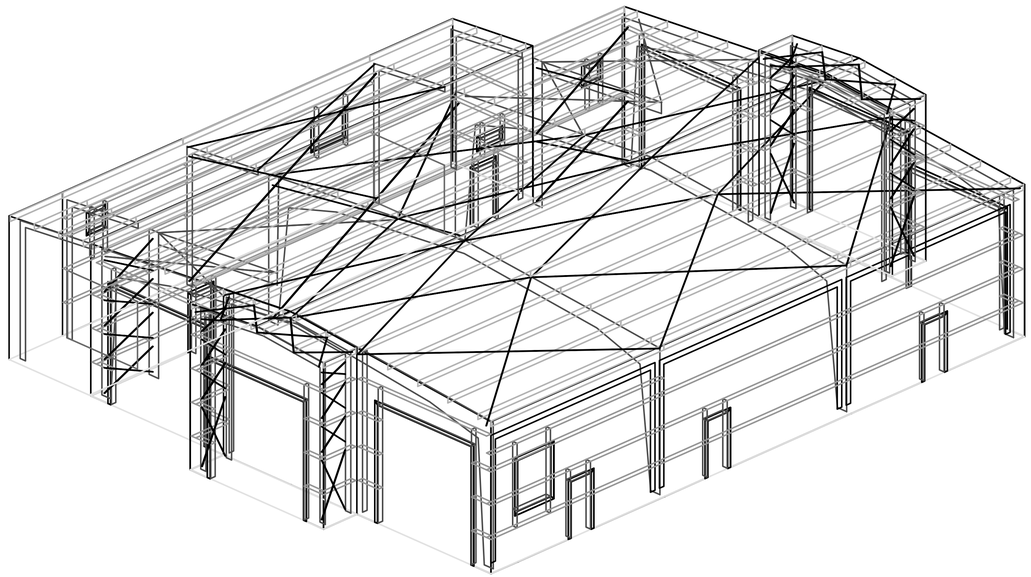

4

GENERAL NOTES:

.1) ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS ARE DESIGNED IN ACCORDANCE WITH THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" AS REQUIRED BY THE SPECIFIED BUILDING CODE.

2) ALL WELDING OF STRUCTURAL STEEL IS BASED ON AWS D1.1 "STRUCTURAL WELDING CODE", LATEST EDITION.

3) MATERIALS:

PLATE, FLANGE, AND WEB MATERIAL	A572 GRADE 50 OR A529 GRADE 50
STRUCTURAL TUBE	A500, Fy = 50 ksi MIN.
HOT-ROLLED STRUCTURAL	A992 OR A572 GRADE 50
ROD BRACING	F1554 GRADE 55
HIGH-STRENGTH BOLTS	A325
COLD-FORMED STRUCTURAL	A1011 SS GRADE 57
STEEL CLADDING	R-LOC 26 GA
STEEL LINER	R-LOC 29 GA

4) BOLT TIGHTENING REQUIREMENTS:
ALL HIGH STRENGTH BOLTS ARE A325 UNLESS NOTED OTHERWISE.
A325 TENSION SPLICE BOLTS SHALL BE TIGHTENED BY TURN-OF-NUT METHOD IN ACCORDANCE WITH THE LATEST EDITION OF AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". A325 BOLTS SHALL BE INSTALLED WITHOUT WASHERS WHEN TIGHTENED BY TURN-OF-NUT METHOD. ALL BOLTED CONNECTIONS, FOR SHEAR/BEARING CONNECTION TYPE WITH BOLT THREADS EXCLUDED FROM THE SHEAR PLANE SHALL BE SNUG TIGHT. WASHERS ARE NOT REQUIRED UNLESS NOTED OTHERWISE.

5) ALL STRUCTURAL STEEL TO RECEIVE A PRIMER. THIS PAINT IS NOT INTENDED FOR LONG TERM EXPOSURE TO THE ELEMENTS.

6) WINDOWS AND DOORS THAT ARE PROVIDED BY OTHERS ARE ASSUMED TO MEET WIND LOADING REQUIREMENTS OF THE BUILDING STRUCTURE. THEY MUST BE PROTECTED BY AN IMPACT-PROTECTIVE SYSTEM OR HAVE IMPACT-RESISTANT GLAZING AS REQUIRED BY THE BUILDING CODE.

7) COLLATERAL LOADS, UNLESS NOTED OTHERWISE, SHALL BE UNIFORMLY DISTRIBUTED. IF CONCENTRATED LOADS ARE TO EXCEED 250 LBS, CONTACT THE METAL BUILDING SUPPLIER.

8) IF SNOW GUARDS OR OTHER DEVICES INTENDED TO HOLD SNOW AND/OR ICE ON THE ROOF SYSTEM ARE TO BE USED ON THIS BUILDING, THEY MUST BE INSTALLED UNDER THE GUIDANCE OF THE ENGINEER OF RECORD TO NOT EXCEED THE DESIGN ROOF SNOW LOAD.

FOUNDATION AND ANCHOR BOLTS:

1) FOUNDATION AND ANCHOR DESIGN IS NOT BY CLEARSPAN. THE FOUNDATION AND ANCHOR DESIGN IS BY OTHERS. REFER TO ANCHOR BOLT PLAN GENERAL NOTES - NOTE 2 ON SHEET B2 FOR FURTHER INFORMATION.

BUILDER / CONTRACTOR RESPONSIBILITIES

IT IS THE RESPONSIBILITY OF THE BUILDER/CONTRACTOR TO ENSURE THAT ALL PROJECT PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITIES. THE SUPPLYING OF SEALED ENGINEERING DATA AND DRAWINGS FOR THE METAL BUILDING SYSTEM DOES NOT IMPLY OR CONSTITUTE AN AGREEMENT THAT THE METAL BUILDING SYSTEM MANUFACTURER OR ITS DESIGN ENGINEER IS ACTING AS THE ENGINEER OF RECORD OR DESIGN PROFESSIONAL FOR A CONSTRUCTION PROJECT.

APPROVAL OF THE METAL BUILDING SYSTEM MANUFACTURER'S DRAWINGS AND CALCULATIONS INDICATE THAT THE METAL BUILDING SYSTEM MANUFACTURER CORRECTLY INTERPRETED AND APPLIED THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS. (SECT. 4.4.1 AISC CODE OF STANDARD PRACTICE, 2016 ED.) WHERE DISCREPANCIES EXIST BETWEEN THE METAL BUILDING SYSTEM MANUFACTURER'S STRUCTURAL STEEL PLANS AND THE PLANS FOR OTHER TRADES, THE STRUCTURAL STEEL PLANS SHALL GOVERN. (SECT. 3.3 AISC CODE OF STANDARD PRACTICE, 2016 ED.) DESIGN CONSIDERATIONS OF ANY MATERIALS IN THE STRUCTURE WHICH ARE NOT FURNISHED BY THE METAL BUILDING SYSTEM MANUFACTURER ARE THE RESPONSIBILITY OF THE CONTRACTORS AND ENGINEERS OTHER THAN THE METAL BUILDING SYSTEM MANUFACTURER'S ENGINEER UNLESS SPECIFICALLY INDICATED.

THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION OF STEEL AND ASSOCIATED WORK IN COMPLIANCE WITH THE METAL BUILDING SYSTEM MANUFACTURER "FOR CONSTRUCTION" DRAWINGS.

ALL BRACING AS SHOWN AND PROVIDED BY THE METAL BUILDING SYSTEM MANUFACTURER FOR THIS BUILDING IS REQUIRED AND SHALL BE INSTALLED BY THE ERECTOR AS A PERMANENT PART OF THE STRUCTURE.

TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BRACES, FALSE WORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION WILL BE DETERMINED AND FURNISHED AND INSTALLED BY THE ERECTOR. THESE TEMPORARY SUPPORTS WILL SECURE THE STEEL FRAMING, OR ANY PARTLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED, INCLUDING THOSE RESULTING FROM WIND AND ERECTION OPERATIONS, BUT NOT THE LOADS RESULTING FROM THE PERFORMANCE OF WORK BY OR THE ACTS OF OTHERS, NOR SUCH UNPREDICTABLE LOADS AS THOSE DUE TO HURRICANE, TORNADO, EARTHQUAKE, EXPLOSION, OR COLLISION. (SECT. 7.10.3 AISC CODE OF STANDARD PRACTICE, 2016 ED.)

ONCE OWNER HAS SIGNED THE APPROVAL PACKAGE AND THE PROJECT IS RELEASED FOR FABRICATION, CHANGES AFTER APPROVAL SHALL BE BILLED TO THE OWNER. CHARGES CAN INCLUDE MATERIAL, ENGINEERING, OR OTHER COSTS. AN ADDITIONAL FEE MAY BE CHARGED IF THE PROJECT MUST BE MOVED FROM FABRICATION AND SHIPPING SCHEDULE.

WARNING : IN NO CASE SHOULD GALVALUME STEEL PANELS BE USED IN CONJUNCTION WITH LEAD OR COPPER. BOTH WARNING: LEAD AND COPPER HAVE HARMFUL CORROSION EFFECTS ON THE ALUMINUM ZINC ALLOY COATING WHEN THEY ARE USED IN CONTACT WITH GALVALUME STEEL PANELS. EVEN RUN-OFF FROM COPPER FLASHING, WIRING, OR TUBING ONTO GALVALUME SHOULD BE AVOIDED.

APPROVAL NOTES

THE FOLLOWING CONDITIONS APPLY IN THE EVENT THAT THESE DRAWINGS ARE USED AS APPROVAL DRAWINGS: IT IS IMPERATIVE THAT ANY CHANGES TO THESE DRAWINGS BE MADE IN CONTRASTING INK (PREFERABLY RED INK), HAVE ALL INSTANCES OF CHANGE CLEARLY INDICATED, AND BE LEGIBLE AND UNAMBIGUOUS. A SIGNATURE AND DATE IS REQUIRED ON ALL PAGES. MANUFACTURER RESERVES THE RIGHT TO RE-SUBMIT DRAWINGS WITH EXTENSIVE OR COMPLEX CHANGES REQUIRED TO AVOID MIS-FABRICATION. THIS MAY IMPACT THE DELIVERY SCHEDULE. APPROVAL OF THESE DRAWINGS INDICATES CONCLUSIVELY THAT THE METAL BUILDING SYSTEM MANUFACTURER HAS CORRECTLY INTERPRETED THE CONTRACT REQUIREMENTS, AND FURTHER CONSTITUTES AGREEMENT THAT THE BUILDING AS DRAWN WITH INDICATED CHANGES REPRESENTS THE TOTAL OF THE MATERIALS TO BE SUPPLIED BY MANUFACTURER. ANY CHANGES NOTED ON THE DRAWINGS NOT IN CONFORMANCE WITH THE TERMS AND REQUIREMENTS OF THE CONTRACT BETWEEN MANUFACTURER AND ITS CUSTOMER ARE NOT BINDING ON MANUFACTURER UNLESS SUBSEQUENTLY SPECIFICALLY ACKNOWLEDGED AND AGREED TO IN WRITING BY CHANGE ORDER OR SEPARATE DOCUMENTATION. MANUFACTURER RECOGNIZES THAT RUBBER STAMPS ARE ROUTINELY USED FOR INDICATING APPROVAL, DISAPPROVAL, REJECTION, OR MERE REVIEW OF THE DRAWINGS SUBMITTED. HOWEVER, MANUFACTURER DOES NOT ACCEPT CHANGES OR ADDITIONS TO CONTRACTUAL TERMS AND CONDITIONS THAT MAY APPEAR WITH USE OF A STAMP OR SIMILAR INDICATION OF APPROVAL, DISAPPROVAL, ETC. SUCH LANGUAGE APPLIED TO MANUFACTURER'S DRAWINGS BY THE CUSTOMER, ARCHITECT, ENGINEER, OR ANY OTHER PARTY WILL BE CONSIDERED AS UNACCEPTABLE ALTERNATIONS TO THESE DRAWING NOTES, AND WILL NOT ALTER THE CONTRACTUAL RIGHTS AND OBLIGATIONS EXISTING BETWEEN MANUFACTURER AND ITS CUSTOMER.

THE OWNER MUST SECURE ALL REQUIRED APPROVALS AND PERMITS FROM THE APPROPRIATE AGENCY AS REQUIRED.

CUSTOMER DESIGN APPROVAL

PLEASE SIGN AND CHECK THE APPROPRIATE BOX BELOW THE SIGNATURE AFTER REVIEWING THE DOCUMENTS.
MY SIGNATURE BELOW ACKNOWLEDGES THAT I HAVE READ AND REVIEWED ALL THE SHEETS LISTED IN THE CONTENT GUIDE AND AGREE TO THE SPECIFICATIONS SHOWN UNLESS OTHERWISE NOTED.
UPON ACCEPTANCE OF THE DRAWINGS, ANY DEVIATIONS FROM THE SIGNED DRAWINGS AND SPECIFICATIONS OUTLINED IN THE EXECUTED DRAWINGS ARE SUBJECT TO ADDITIONAL CHARGES AND MAY RESULT IN DELAY OF INSTALLATION OR DELIVERY OF YOUR STRUCTURE. A CHANGE ORDER WILL BE ISSUED TO YOU WITH THE OUTLINED ADDITIONAL COST ASSOCIATED WITH THESE CHANGES AND A PROPOSED NEW DELIVERY SCHEDULE.
NO CHANGES WILL BE ACCEPTED UNLESS WE HAVE A CHANGE ORDER SIGNED BY AN AUTHORIZED REPRESENTATIVE.

CUSTOMER SIGNATURE: _____ DATE: _____

☐ APPROVE ☐ APPROVE WITH CHANGES

DRAWING INDEX

COVER SHEET: C1, C2
ANCHOR BOLT PLAN: B1, B2
ANCHOR BOLT REACTIONS: BR1, BR2, BR3, BR4
PRIMARY PLANS / SECTIONS: E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20, E21

WARNING: Cancer and Reproductive Toxicity - P65Warnings.ca.gov

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WWW.ESAPCO.COM
WWW.CLEARSPAN.COM

ORDER #: 7878201
CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.–NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.–NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

COVER PAGE

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

PRINCIPAL ENGINEER 5 May 2026 DATE
CITY ENGINEER 5/7/2026 DATE

SPEC. NUMBER 2025-010 PROJECT NUMBER FA11-1061
March 27, 2026 SHEET 35 OF 151 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

BUILDING LOADS / DESCRIPTION: BUILDING A

WIDTH: 60 LENGTH: 80 HEIGHT: 18 / 18 SITE ADDRESS: 2269 ALESSANDRO DRIVE VENTURA, CA 93001

(BUILDING DIMENSIONS ARE NOMINAL. REFER TO PLANS).

THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED AS REQUIRED BY : CBC 22

RISK CATEGORY: IV - Post

CONSTRUCTION TYPE: IIB

THE CONTRACTOR IS TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.

ROOF DEAD LOAD:	2.2	PSF (ROOF PANELS & PURLINS)			
COLLATERAL LOAD:	10.00	PSF	BASIC WIND SPEED:	105	MPH
ROOF LIVE LOAD:	20.00	PSF	WIND EXPOSURE:	C	
GROUND SNOW LOAD:	0	PSF	INTERNAL PRESSURE COEFF.:		
SNOW EXPOSURE:	1.0		0.18 /	-0.18	
THERMAL FACTOR:	1.20		WIND IMP. FACTOR	1.00	
SNOW IMP. FACTOR:	1.20		MAPPED SPECTRAL RESPONSE ACC.		SPECTRAL RESPONSE COEFF.
ROOF SNOW LOAD:	0.00	PSF	Ss	1.96	Sds 1.57
SITE CLASS:	E		S1	0.74	Sd1 0.98
SEISMIC DESIGN CAT.:	D				DESIGN BASE SHEAR, V:
SEISMIC IMP. FACTOR	1.50				EXPANDED FORMULA 0.667*Ie*Sms*W/R
Cs (LONGITUDINAL)	0.723				LONGITUDINAL 63.50
Cs (TRANSVERSE)	0.723		SEISMIC FORCE RESISTING SYSTEM		TRANSVERSE 56.55
R (LONGITUDINAL)	3.25		STEEL ORDINARY CONCENTRICALLY BRACED FRAMES		
R (TRANSVERSE)	3.25		STEEL ORDINARY MOMENT FRAMES		

3
5

BUILDING LOADS / DESCRIPTION: BUILDING B

WIDTH: 20 LENGTH: 5 HEIGHT: 19.67 / 19.67 SITE ADDRESS: 2269 ALESSANDRO DRIVE VENTURA, CA 93001

(BUILDING DIMENSIONS ARE NOMINAL. REFER TO PLANS).

THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED AS REQUIRED BY : CBC 22

RISK CATEGORY: IV - Post

CONSTRUCTION TYPE: IIB

THE CONTRACTOR IS TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.

ROOF DEAD LOAD:	2.0	PSF (ROOF PANELS & PURLINS)			
COLLATERAL LOAD:	10.00	PSF	BASIC WIND SPEED:	105	MPH
ROOF LIVE LOAD:	20.00	PSF	WIND EXPOSURE:	C	
GROUND SNOW LOAD:	0	PSF	INTERNAL PRESSURE COEFF.:		
SNOW EXPOSURE:	1.0		0.18 /	-0.18	
THERMAL FACTOR:	1.20		WIND IMP. FACTOR	1.00	
SNOW IMP. FACTOR:	1.20		MAPPED SPECTRAL RESPONSE ACC.		SPECTRAL RESPONSE COEFF.
ROOF SNOW LOAD:	0.00	PSF	Ss	1.96	Sds 1.57
SITE CLASS:	E		S1	0.74	Sd1 0.98
SEISMIC DESIGN CAT.:	D				DESIGN BASE SHEAR, V:
SEISMIC IMP. FACTOR	1.50				EXPANDED FORMULA 0.667*Ie*Sms*W/R
Cs (LONGITUDINAL)	0.723				LONGITUDINAL 1.81
Cs (TRANSVERSE)	0.723		SEISMIC FORCE RESISTING SYSTEM		TRANSVERSE 1.80
R (LONGITUDINAL)	3.25		STEEL ORDINARY CONCENTRICALLY BRACED FRAMES		
R (TRANSVERSE)	3.25		STEEL ORDINARY MOMENT FRAMES		

3
5

BUILDING LOADS / DESCRIPTION: BUILDING B b

WIDTH: 20 LENGTH: 5 HEIGHT: 19.67 / 19.67 SITE ADDRESS: 2269 ALESSANDRO DRIVE VENTURA, CA 93001

(BUILDING DIMENSIONS ARE NOMINAL. REFER TO PLANS).

THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED AS REQUIRED BY : CBC 22

RISK CATEGORY: IV - Post

CONSTRUCTION TYPE: IIB

THE CONTRACTOR IS TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.

ROOF DEAD LOAD:	2.0	PSF (ROOF PANELS & PURLINS)			
COLLATERAL LOAD:	10.00	PSF	BASIC WIND SPEED:	105	MPH
ROOF LIVE LOAD:	20.00	PSF	WIND EXPOSURE:	C	
GROUND SNOW LOAD:	0	PSF	INTERNAL PRESSURE COEFF.:		
SNOW EXPOSURE:	1.0		0.18 /	-0.18	
THERMAL FACTOR:	1.20		WIND IMP. FACTOR	1.00	
SNOW IMP. FACTOR:	1.20		MAPPED SPECTRAL RESPONSE ACC.		SPECTRAL RESPONSE COEFF.
ROOF SNOW LOAD:	0.00	PSF	Ss	1.96	Sds 1.57
SITE CLASS:	E		S1	0.74	Sd1 0.98
SEISMIC DESIGN CAT.:	D				DESIGN BASE SHEAR, V:
SEISMIC IMP. FACTOR	1.50				EXPANDED FORMULA 0.667*Ie*Sms*W/R
Cs (LONGITUDINAL)	0.723				LONGITUDINAL 1.81
Cs (TRANSVERSE)	0.723		SEISMIC FORCE RESISTING SYSTEM		TRANSVERSE 1.80
R (LONGITUDINAL)	3.25		STEEL ORDINARY CONCENTRICALLY BRACED FRAMES		
R (TRANSVERSE)	3.25		STEEL ORDINARY MOMENT FRAMES		

3
5

BUILDING LOADS / DESCRIPTION: BUILDING C

WIDTH: 12 LENGTH: 66.5 HEIGHT: 17 / 18 SITE ADDRESS: 2269 ALESSANDRO DRIVE VENTURA, CA 93001

(BUILDING DIMENSIONS ARE NOMINAL. REFER TO PLANS).

THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED AS REQUIRED BY : CBC 22

RISK CATEGORY: IV - Post

CONSTRUCTION TYPE: IIB

THE CONTRACTOR IS TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.

ROOF DEAD LOAD:	2.2	PSF (ROOF PANELS & PURLINS)			
COLLATERAL LOAD:	10.00	PSF	BASIC WIND SPEED:	105	MPH
ROOF LIVE LOAD:	20.00	PSF	WIND EXPOSURE:	C	
GROUND SNOW LOAD:	0	PSF	INTERNAL PRESSURE COEFF.:		
SNOW EXPOSURE:	1.0		0.18 /	-0.18	
THERMAL FACTOR:	1.20		WIND IMP. FACTOR	1.00	
SNOW IMP. FACTOR:	1.20		MAPPED SPECTRAL RESPONSE ACC.		SPECTRAL RESPONSE COEFF.
ROOF SNOW LOAD:	0.00	PSF	Ss	1.96	Sds 1.57
SITE CLASS:	E		S1	0.74	Sd1 0.98
SEISMIC DESIGN CAT.:	D				DESIGN BASE SHEAR, V:
SEISMIC IMP. FACTOR	1.50				EXPANDED FORMULA 0.667*Ie*Sms*W/R
Cs (LONGITUDINAL)	0.723				LONGITUDINAL 5.33
Cs (TRANSVERSE)	0.723		SEISMIC FORCE RESISTING SYSTEM		TRANSVERSE 10.32
R (LONGITUDINAL)	3.25		STEEL ORDINARY CONCENTRICALLY BRACED FRAMES		
R (TRANSVERSE)	3.25		STEEL ORDINARY MOMENT FRAMES		

3
5

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ORDER #: 7878201

CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.–NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.–NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

COVER PAGE

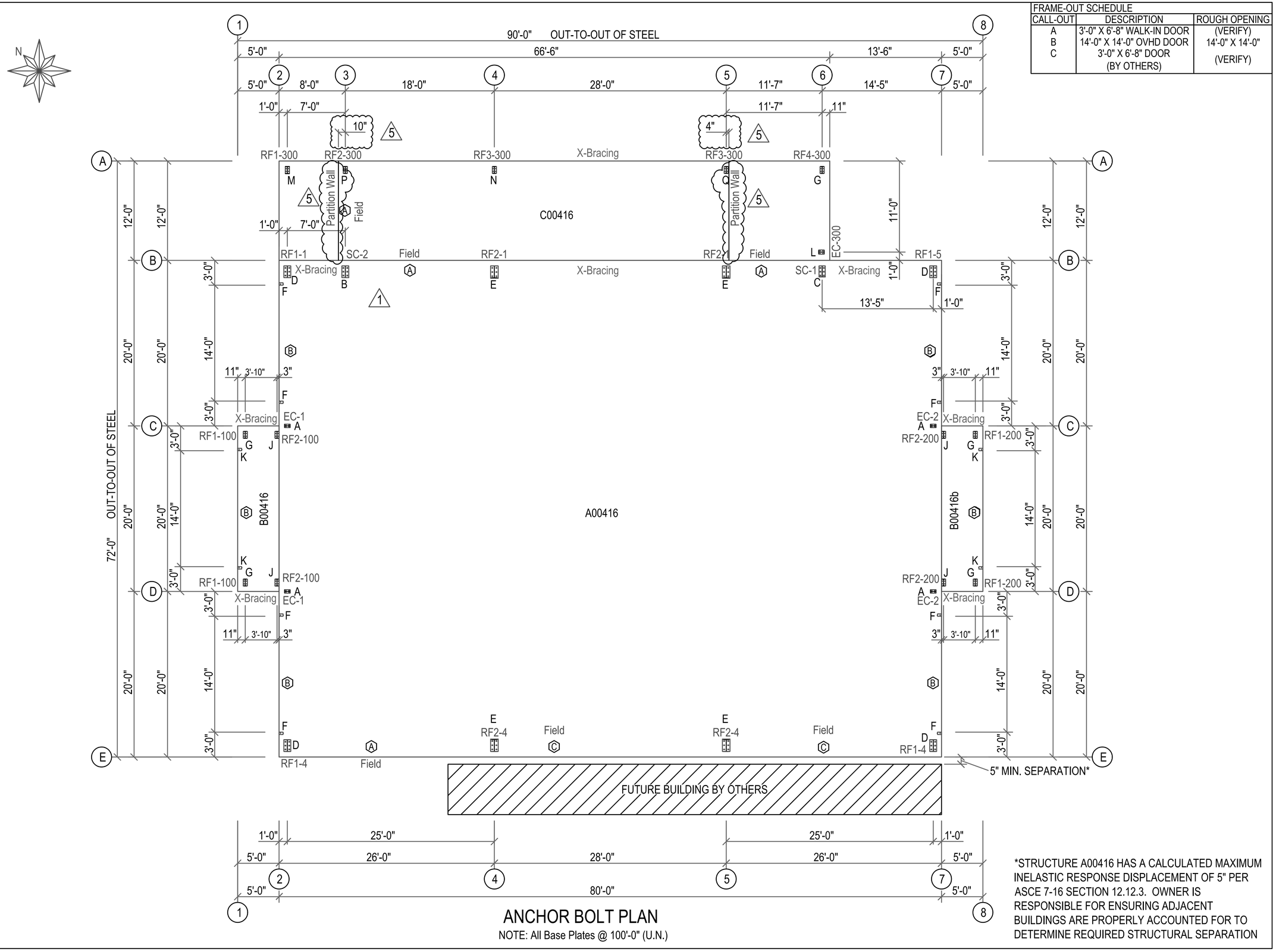
DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
March 27, 2026	SHEET 36 OF 151 DWG. NO. 2025-D-010

FOR REFERENCE ONLY



ANCHOR BOLT PLAN

NOTE: All Base Plates @ 100'-0" (U.N.)

*STRUCTURE A00416 HAS A CALCULATED MAXIMUM INELASTIC RESPONSE DISPLACEMENT OF 5" PER ASCE 7-16 SECTION 12.12.3. OWNER IS RESPONSIBLE FOR ENSURING ADJACENT BUILDINGS ARE PROPERLY ACCOUNTED FOR TO DETERMINE REQUIRED STRUCTURAL SEPARATION

FRAME-OUT SCHEDULE		
CALL-OUT	DESCRIPTION	ROUGH OPENING
A	3'-0" X 6'-8" WALK-IN DOOR	(VERIFY)
B	14'-0" X 14'-0" OVHD DOOR	14'-0" X 14'-0"
C	3'-0" X 6'-8" DOOR (BY OTHERS)	(VERIFY)

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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

ANCHOR BOLT PLAN

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

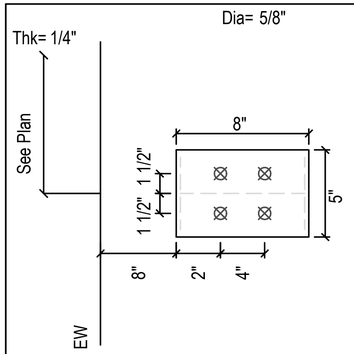
PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

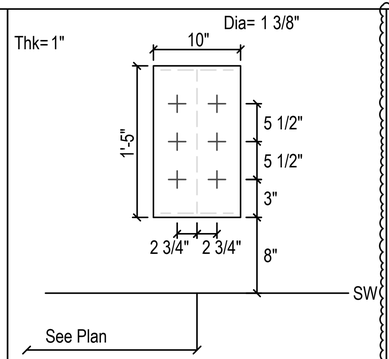
SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

March 27, 2026 | SHEET 37 OF 151 | DWG. NO. 2025-D-010

FOR REFERENCE ONLY



DETAIL A



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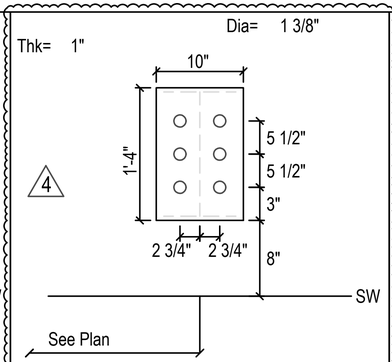

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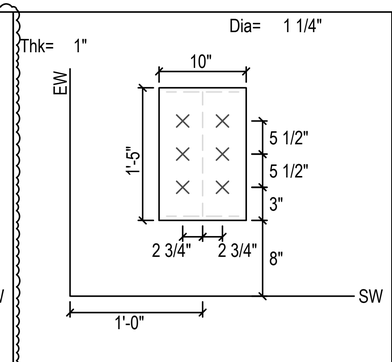

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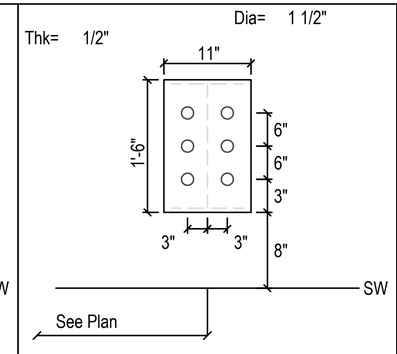
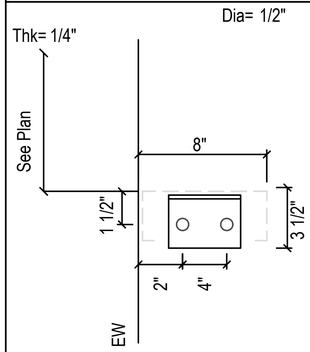
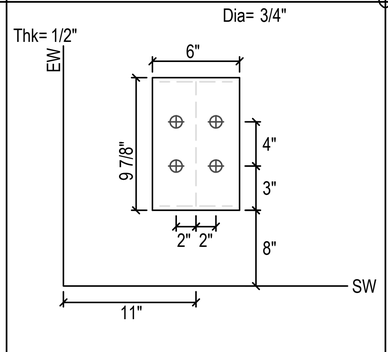


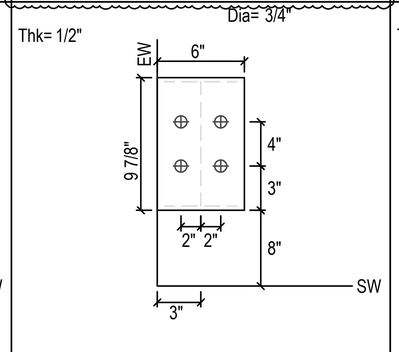
DETAIL E



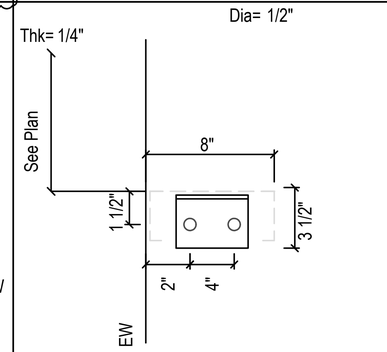
DETAIL F



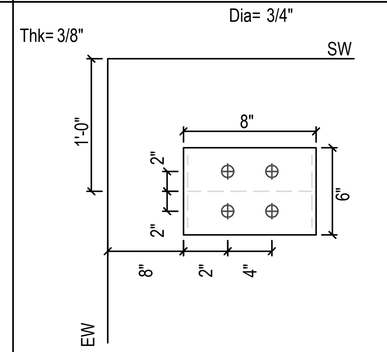
DETAIL G



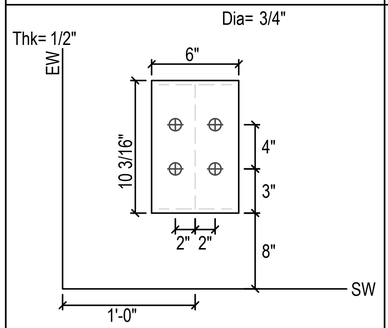
DETAIL J



DETAIL K



DETAIL L



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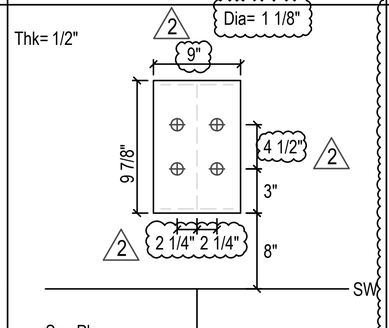

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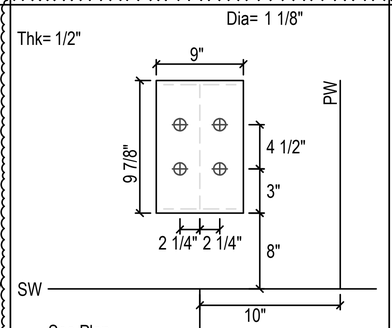
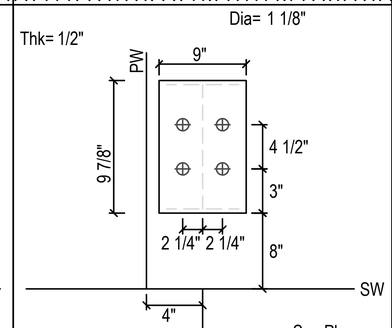


DETAIL P



DETAIL Q

5

NOTE: " Dia" DIMENSIONS SHOWN REPRESENT REQUIRED ANCHOR BOLT DIAMETER. USE TABLE BELOW TO DETERMINE BASE PLATE ANCHOR HOLE SIZE PER ANCHOR DIAMETER.

ANCHOR BOLT DIAMETER	BASE PLATE ANCHOR HOLE SIZE	PROJECTION
5/8"	3/4"	3"
3/4"	7/8"	3"
1"	1 1/8"	3"
2 1 1/8"	1 1/4"	3"
1 1/4"	1 3/8"	3"
1 3/8"	1 1/2"	3"
1 1/2"	1 5/8"	3"

** REFER TO FOUNDATION DRAWINGS FOR WHICH HOLES TO USE.

ANCHOR BOLT SETTING NOTE

1) THE ANCHOR BOLT SETTINGS SHOWN ON THESE DRAWINGS NOT ONLY INDICATE WHERE THE ANCHOR BOLTS ARE TO BE PLACED, BUT ALSO THE FOOTPRINT OF THE BUILDING. IT IS ESSENTIAL THAT THESE BOLT PATTERNS BE FOLLOWED. IN THE EVENT THAT THESE SETTINGS DIFFER FROM THE FOUNDATION PLANS, THE BUILDING MANUFACTURER MUST BE CONTACTED IMMEDIATELY.

TYPICAL BASE PLATE ELEVATION

FINISHED FLOOR = 100'-0"
BOTTOM OF BASE PLATE ELEVATION = 100'-0"

ANCHOR BOLT PLAN GENERAL NOTES

1) THE SPECIFIED ANCHOR ROD DIAMETER ASSUMES F1554 GRADE 36 UNLESS NOTED OTHERWISE. ANCHOR ROD MATERIAL OF EQUAL DIAMETER MEETING OR EXCEEDING THE STRENGTH REQUIREMENTS SET FORTH ON THESE DRAWINGS MAY BE UTILIZED AT THE DISCRETION OF THE FOUNDATION DESIGN ENGINEER. ANCHOR ROD EMBEDMENT LENGTH SHALL BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER.

2) THE FOUNDATION AND ANCHORS ARE CRITICAL ELEMENTS FOR THE BUILDING TO FUNCTION AS DESIGNED. UNLESS NOTED OTHERWISE ON SHEET C1, THE OWNER IS RESPONSIBLE FOR ENSURING THE FOUNDATION IS DESIGNED FOR THE BUILDING BY A PROFESSIONAL IN ACCORDANCE WITH LOCAL REQUIREMENTS.

3) ALL ANCHOR RODS, FLAT WASHERS FOR ANCHOR RODS, EXPANSION BOLTS, AS WELL AS ALL CONCRETE/MASONRY EMBEDMENT PLATES ARE NOT BY BUILDING MANUFACTURER, UNLESS NOTED OTHERWISE.

4) THIS DRAWING IS NOT TO SCALE.

5) THE ANCHOR BOLT LOCATIONS PROVIDED BY BUILDING MANUFACTURER SATISFY PERTINENT REQUIREMENTS FOR THE DESIGN OF THE MATERIALS SUPPLIED BY THE BUILDING MANUFACTURER. PLEASE NOTE THAT THESE REQUIREMENTS MAY NOT SATISFY ALL ANCHOR BOLT EDGE DISTANCE REQUIREMENTS DEPENDING ON THE DETAILS OF THE FOUNDATION DESIGN. BECAUSE FOUNDATION DESIGN IS NOT WITHIN THE BUILDING SCOPE OF WORK, IT IS THE RESPONSIBILITY OF THE QUALIFIED PROFESSIONAL DESIGNING THE FOUNDATION TO MAKE SURE THAT SUFFICIENT CONCRETE EDGE DISTANCE IS PROVIDED FOR THE ANCHOR BOLTS IN THE DETAILS OF THE FOUNDATION DESIGN.

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1440 18TH AVENUE SW
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ORDER #: 7878201
CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.–NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.–NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

ANCHOR BOLT DETAILS

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061
March 27, 2026 | SHEET 38 OF 151 | DWG. NO. 2025-D-010

FOR REFERENCE ONLY

NOTES FOR REACTIONS

1. All loading conditions are examined and only maximum/minimum H or V and the corresponding H or V are reported.
2. Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
3. Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
4. Building reactions are based on the following building data:

Width	(ft)	= 60.0
Length	(ft)	= 80.0
Eave Height	(ft)	= 18.0/ 18.0
Roof Slope	(rise/12)	= 1.00/ 1.00
Roof Dead Load	(psf)	= 2.2
Wall Dead Load		
Left Endwall	(psf)	= 2.0
Right Endwall	(psf)	= 2.0
Front Sidewall	(psf)	= 2.0
Back Sidewall	(psf)	= 2.0
Roof Live Load	(psf)	= 20.0
Frame Live Load	(psf)	= 12.0
Collateral Load	(psf)	= 10.0
Wind Speed	(mph)	=105.0
Wind Code		=CBC 22 (IBC 21)
Exposure		=C
Closure		=Enclosed
Internal Wind Coeff		=-0.18, +0.18
Risk Category		=IV - Post
Importance - Wind		= 1.00
Importance - Seismic		= 1.50
Seismic Design Category		=E
Seismic Coeff	(Sms)	= 2.35

5. Loading conditions are:
   1. 0.6Dead+0.6Wind_Left1
   2. 0.6Dead+0.6Wind_Right1
   3. 0.6Dead+0.6Wind_Long2L
   4. 1.22Dead+1.22Collateral+0.7Seismic_LongR
   5. 1.16Dead+1.16Collateral+0.75Live+0.53Seismic_Left
   6. 1.16Dead+1.16Collateral+0.75Live+0.53Seismic_Right
   7. 1.16Dead+1.16Collateral+0.75Live+0.53Seismic_LongR
   8. 0.38Dead+0.7Seismic_Left
   9. 0.38Dead+0.7Seismic_Right
   10. 0.38Dead+0.7Seismic_LongL
   11. 0.6Dead+0.6Wind_Right2+0.6Wind_Suction
   12. 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
   13. 1.22Dead+1.22Collateral+0.7Seismic_LongR
   14. 0.6Dead+0.6Wind_Pressure
   15. 0.6Dead+0.6Wind_Suction
   16. 1.33Dead+0.7Seismic_LongL
   17. 0.27Dead+0.7Seismic_LongR

BUILDING BRACING REACTIONS

Wall Loc	Wall Line	Col Line		Reactions in plane of wall Reactions(k) Wind Horz	Seismic Horz	Panel_Shear (lb/ft) Wind	Seis	Note
L_EW	2							(h)
F_SW	E	2,4		0.81	6.43			(b)
		4,5		0.81	6.43			(b)
		5,7		0.81	6.43			(b)
R_EW	7							(h)
B_SW	B	7,6	*	1.97	16.04			
		5,4	*	1.97	16.04			
		3,2	*	1.97	16.04			

(b)Wind bent in bay, base above finish floor
(h)Rigid frame at endwall

*See RF reactions table for vertical and horizontal reactions in plane of the rigid frame.

Reactions for seismic represent shear force, Eh
Reaction values shown are unfactored

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Wind Press Horz	Wind Suct Horz	Seis Long Horz
2	C	0.18	-1.69	1.87	0.17
2	D	0.18	-1.69	1.87	0.17
7	D	0.18	-1.69	1.87	0.17
7	C	0.18	-1.69	1.87	0.17

SOLDIER COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead	Collateral		Live		Wind_Press		Wind_Suct		Wind_Long1		Seis Long
		Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Vert
3	B	0.51	-0.18	1.49	1.24		2.13	-1.36	-2.38	-0.43	-1.57	4.59	37.42
6	B	0.44	0.00	0.33	0.66		2.15	-0.91	-2.37	-0.27	-1.57	2.39	19.53

ENDWALL COLUMN: MAXIMUM REACTIONS

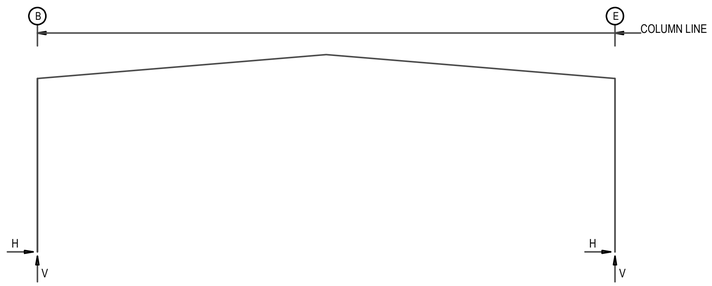
Frm Line	Col Line	Load Id	Column_Reactions(k) Horz	Vert
2	C	11	1.12	0.11
		12	-1.01	0.11
		13	-0.12	0.22
2	D	11	1.12	0.11
		12	-1.01	0.11
		13	-0.12	0.22
7	D	11	1.12	0.11
		12	-1.01	0.11
		13	-0.12	0.22
7	C	11	1.12	0.11
		12	-1.01	0.11
		13	-0.12	0.22

SOLDIER COLUMN: MAXIMUM REACTIONS

Frm Line	Col Line	Load Id	Column_Reactions(k) Horz	Vert
3	B	14	1.28	-0.51
		15	-1.43	0.05
		16	0.00	26.87
		17	0.00	-26.06
6	B	14	1.29	-0.28
		15	-1.42	0.10
		16	0.00	14.25
		17	0.00	-13.55

4

FRAME LINES: 2 4 5 7



RIGID FRAME: MAXIMUM REACTIONS

Frm Id	Col Line	Load Id	Column_Reactions(k) Horz	Vert
1*	B	4	4.61	34.55
		6	10.65	14.70
		8	-5.49	-2.39
		10	0.36	-25.24
1*	E	3	1.80	-5.00
		5	-10.85	14.19
		7	-6.77	16.01
		9	5.41	-2.38
1*	Frame lines:	2 7		

RIGID FRAME: MAXIMUM REACTIONS

Frm Id	Col Line	Load Id	Column_Reactions(k) Horz	Vert
2*	B	1	-5.72	-8.28
		6	19.65	29.31
		7	11.86	29.82
		8	-9.97	-4.58
2*	E	2	6.44	-7.48
		5	-20.07	26.24
		9	9.94	-4.55
2*	Frame lines:	4 5		

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Id	Column Line	-----Dead---- Horz	Vert	--Collateral- Horz	Vert	-----Live---- Horz	Vert	--Wind_Left1- Horz	Vert	-Wind_Right1- Horz	Vert	--Wind_Left2- Horz	Vert
1*	B	0.95	2.53	2.50	4.46	2.95	5.48	-7.48	-10.84	-1.20	-5.90	-6.74	-7.65
1*	E	-0.98	2.46	-2.58	4.29	-3.11	5.14	1.55	-5.87	7.74	-10.42	0.41	-2.52
2*	B	1.59	4.06	4.85	10.35	5.65	12.17	-11.12	-17.87	-0.50	-9.49	-10.84	-11.75
2*	E	-1.63	3.79	-4.99	8.44	-5.93	10.07	1.65	-9.41	12.36	-16.26	-0.81	-2.41

Frame Id	Column Line	-Wind_Right2- Horz	Vert	--Wind_Long1- Horz	Vert	--Wind_Long2- Horz	Vert	-Seismic_Left Horz	Vert	Seismic_Right Horz	Vert	Seismic_Long1 Horz	Vert
1*	B	-0.46	-2.70	-1.62	-13.36	-1.98	-11.35	-8.37	-4.78	8.37	4.69	0.00	-37.42
1*	E	6.60	-7.07	4.34	-8.77	3.98	-10.78	-8.27	4.74	8.26	-4.74	0.00	-7.94
2*	B	-0.12	-3.34	-1.45	-14.91	-1.92	-12.26	-15.10	-8.76	15.12	8.37	0.00	-9.36
2*	E	10.00	-9.29	6.45	-13.57	5.98	-16.21	-15.10	8.57	15.09	-8.56	0.00	-7.94

Frame Id	Column Line	Seismic_Long2 Horz	Vert
1*	B	0.00	37.42
1*	E	0.00	7.94
2*	B	0.00	9.36
2*	E	0.00	7.94

1*	Frame lines:	2 7
2*	Frame lines:	4 5

4

BUILDING A00416

DEVELOPED BY:

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ORDER #: 7878201

CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.–NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.–NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

ANCHOR BOLT REACTIONS BUILDING A

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-D-010 PROJECT NUMBER FA11-1061

March 27, 2026 SHEET 39 OF 151 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

NOTES FOR REACTIONS

1. All loading conditions are examined and only maximum/minimum H or V and the corresponding H or V are reported.
2. Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
3. Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
4. Building reactions are based on the following building data:

Width	(ft)	= 20.0
Length	(ft)	= 5.0
Eave Height	(ft)	= 19.7/ 19.7
Roof Slope	(rise/12)	= 1.00/ 1.00
Roof Dead Load	(psf)	= 2.0
Wall Dead Load		
Left Endwall	(psf)	= 2.0
Right Endwall	(psf)	= 2.0
Front Sidewall	(psf)	= 2.0
Back Sidewall	(psf)	= 2.0
Live Load	(psf)	= 20.0
Collateral Load	(psf)	= 10.0
Wind Speed	(mph)	= 105.0
Wind Code		= CBC 22 (IBC 21)
Exposure		= C
Closure		= Enclosed
Internal Wind Coeff		= -0.18, +0.18
Risk Category		= IV - Post
Importance - Wind		= 1.00
Importance - Seismic		= 1.50
Seismic Design Category		= E
Seismic Coeff	(Sms)	= 2.35

5. Loading conditions are:

1 Dead+0.6Wind_Long2R
2 0.6Dead+0.6Wind_Long1L
3 1.22Dead+1.22Collateral+0.7Seismic_Left
4 1.22Dead+1.22Collateral+0.7Seismic_Right
5 0.38Dead+0.7Seismic_Left
6 0.38Dead+0.7Seismic_Right

BUILDING BRACING REACTIONS

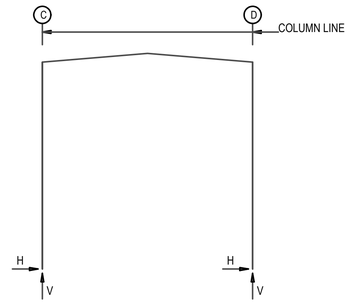
Wall Loc	Wall Line	Col Line		Reactions in plane of wall Reactions(k) Wind Horz	Seismic Horz	Panel_Shear (lb/ft) Wind	Seis	Note
L_EW	1							(h)
F_SW	D	1,2	*	2.46	1.23			
R_EW	2							(h)
B_SW	C	2,1	*	2.46	1.23			

(h)Rigid frame at endwall

*See RF reactions table for vertical and horizontal reactions in plane of the rigid frame.

Reactions for seismic represent shear force, Eh
Reaction values shown are unfactored

FRAME LINES: 1 2



RIGID FRAME: MAXIMUM REACTIONS

Frm Id	Col Line	Column_Reactions(k) Load Id	Horz	Vert
1*	C	1	0.15	7.35
		2	0.22	-7.19
		4	0.52	1.84
		5	-0.46	-0.83
1*	D	1	-0.15	7.35
		2	-0.22	-7.19
		3	-0.52	1.84
		6	0.46	-0.83

1* Frame lines: 1

RIGID FRAME: MAXIMUM REACTIONS

Frm Id	Col Line	Column_Reactions(k) Load Id	Horz	Vert
2*	C	1	0.12	7.32
		2	0.17	-7.09
		4	0.44	1.55
		5	-0.38	-0.68
2*	D	1	-0.12	7.32
		2	-0.17	-7.09
		3	-0.44	1.55
		6	0.38	-0.68

2* Frame lines: 2

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Id	Column Line	-----Dead---- Horz	Vert	--Collateral- Horz	Vert	-----Live---- Horz	Vert	--Wind_Left1- Horz	Vert	-Wind_Right1- Horz	Vert	--Wind_Left2- Horz	Vert
1*	C	0.01	0.40	0.03	0.30	0.05	0.59	-0.59	-1.28	0.41	-0.02	-0.76	-1.05
1*	D	-0.01	0.40	-0.03	0.30	-0.05	0.59	-0.41	-0.02	0.59	-1.28	-0.24	0.21
2*	C	0.01	0.37	0.02	0.23	0.05	0.46	-0.46	-0.98	0.31	-0.02	-0.60	-0.80
2*	D	-0.01	0.37	-0.02	0.23	-0.05	0.46	-0.31	-0.02	0.46	-0.98	-0.17	0.16

Frame Id	Column Line	-Wind_Right2- Horz	Vert	--Wind_Long1- Horz	Vert	--Wind_Long2- Horz	Vert	-Seismic_Left Horz	Vert	Seismic_Right Horz	Vert	Seismic_Long1 Horz	Vert
1*	C	0.24	0.21	0.35	-12.38	0.22	-11.54	-0.67	-1.41	0.67	1.41	0.00	-5.79
1*	D	0.76	-1.05	-0.35	-12.38	-0.22	-11.54	-0.67	1.41	0.67	-1.41	0.00	-5.79
2*	C	0.17	0.16	0.27	-12.19	0.18	-11.55	-0.56	-1.17	0.56	1.17	0.00	-5.79
2*	D	0.60	-0.80	-0.27	-12.19	-0.18	-11.55	-0.56	1.17	0.56	-1.17	0.00	-5.79

Frame Id	Column Line	Seismic_Long2 Horz	Vert	--Wind_Left3- Horz	Vert	-Wind_Right3- Horz	Vert	--Wind_Left4- Horz	Vert	-Wind_Right4- Horz	Vert
1*	C	0.00	5.79	-0.56	-0.78	0.47	0.36	-0.74	-0.55	0.29	0.59
1*	D	0.00	5.79	-0.47	0.36	0.56	-0.78	-0.29	0.59	0.74	-0.55
2*	C	0.00	5.79	-0.43	-0.60	0.35	0.28	-0.57	-0.42	0.22	0.45
2*	D	0.00	5.79	-0.35	0.28	0.43	-0.60	-0.22	0.45	0.57	-0.42

1* Frame lines: 1
2* Frame lines: 2

BUILDING B00416

4

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ORDER #: 7878201

CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.--NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.--NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

ANCHOR BOLT REACTIONS BUILDING B

DRN. BY: LJO | DES. BY: XXX | CK'D. BY: XXX

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

March 27, 2026 | SHEET 40 OF 151 | DWG. NO. 2025-D-010

FOR REFERENCE ONLY

NOTES FOR REACTIONS

1. All loading conditions are examined and only maximum/minimum H or V and the corresponding H or V are reported.
2. Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
3. Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
4. Building reactions are based on the following building data:

Width	(ft)	= 20.0
Length	(ft)	= 5.0
Eave Height	(ft)	= 19.7/ 19.7
Roof Slope	(rise/12)	= 1.00/ 1.00
Roof Dead Load	(psf)	= 2.0
Wall Dead Load		
Left Endwall	(psf)	= 2.0
Right Endwall	(psf)	= 2.0
Front Sidewall	(psf)	= 2.0
Back Sidewall	(psf)	= 2.0
Live Load	(psf)	= 20.0
Collateral Load	(psf)	= 10.0
Wind Speed	(mph)	= 105.0
Wind Code		= CBC 22 (IBC 21)
Exposure		= C
Closure		= Enclosed
Internal Wind Coeff		= -0.18, +0.18
Risk Category		= IV - Post
Importance - Wind		= 1.00
Importance - Seismic		= 1.50
Seismic Design Category		= E
Seismic Coeff	(Sms)	= 2.35

5. Loading conditions are:

1 Dead+0.6Wind_Long2R
2 0.6Dead+0.6Wind_Long1L
3 1.22Dead+1.22Collateral+0.7Seismic_Left
4 1.22Dead+1.22Collateral+0.7Seismic_Right
5 0.38Dead+0.7Seismic_Left
6 0.38Dead+0.7Seismic_Right

BUILDING BRACING REACTIONS

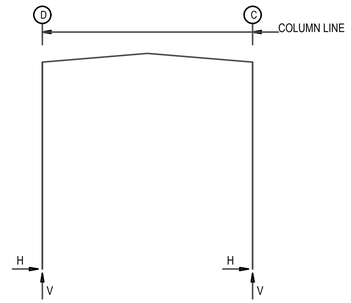
Wall Loc	Wall Line	Col Line		Reactions in plane of wall Reactions(k) Wind Horz	Seismic Horz	Panel_Shear (lb/ft) Wind	Seis	Note
L_EW	8							(h)
F_SW	C	8,7	*	2.46	1.23			
R_EW	7							(h)
B_SW	D	7,8	*	2.46	1.23			

(h)Rigid frame at endwall

*See RF reactions table for vertical and horizontal reactions in plane of the rigid frame.

Reactions for seismic represent shear force, Eh
Reaction values shown are unfactored

FRAME LINES: 8 7



RIGID FRAME: MAXIMUM REACTIONS

Frm Id	Col Line	Column_Reactions(k) Load Id	Horz	Vert
1*	D	1	0.15	7.35
		2	0.22	-7.19
		4	0.52	1.84
		5	-0.46	-0.83
1*	C	1	-0.15	7.35
		2	-0.22	-7.19
		3	-0.52	1.84
		6	0.46	-0.83

1* Frame lines: 8

RIGID FRAME: MAXIMUM REACTIONS

Frm Id	Col Line	Column_Reactions(k) Load Id	Horz	Vert
2*	D	1	0.12	7.32
		2	0.17	-7.09
		4	0.44	1.55
		5	-0.38	-0.68
2*	C	1	-0.12	7.32
		2	-0.17	-7.09
		3	-0.44	1.55
		6	0.38	-0.68

2* Frame lines: 7

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Id	Column Line	-----Dead---- Horz	Vert	--Collateral- Horz	Vert	-----Live---- Horz	Vert	--Wind_Left1- Horz	Vert	-Wind_Right1- Horz	Vert	--Wind_Left2- Horz	Vert
1*	D	0.01	0.40	0.03	0.30	0.05	0.59	-0.59	-1.28	0.41	-0.02	-0.76	-1.05
1*	C	-0.01	0.40	-0.03	0.30	-0.05	0.59	-0.41	-0.02	0.59	-1.28	-0.24	0.21
2*	D	0.01	0.37	0.02	0.23	0.05	0.46	-0.46	-0.98	0.31	-0.02	-0.60	-0.80
2*	C	-0.01	0.37	-0.02	0.23	-0.05	0.46	-0.31	-0.02	0.46	-0.98	-0.17	0.16

Frame Id	Column Line	-Wind_Right2- Horz	Vert	--Wind_Long1- Horz	Vert	--Wind_Long2- Horz	Vert	-Seismic_Left Horz	Vert	Seismic_Right Horz	Vert	Seismic_Long1 Horz	Vert
1*	D	0.24	0.21	0.35	-12.38	0.22	-11.54	-0.67	-1.41	0.67	1.41	0.00	-5.79
1*	C	0.76	-1.05	-0.35	-12.38	-0.22	-11.54	-0.67	1.41	0.67	-1.41	0.00	-5.79
2*	D	0.17	0.16	0.27	-12.19	0.18	-11.55	-0.56	-1.17	0.56	1.17	0.00	-5.79
2*	C	0.60	-0.80	-0.27	-12.19	-0.18	-11.55	-0.56	1.17	0.56	-1.17	0.00	-5.79

Frame Id	Column Line	Seismic_Long2 Horz	Vert	--Wind_Left3- Horz	Vert	-Wind_Right3- Horz	Vert	--Wind_Left4- Horz	Vert	-Wind_Right4- Horz	Vert
1*	D	0.00	5.79	-0.56	-0.78	0.47	0.36	-0.74	-0.55	0.29	0.59
1*	C	0.00	5.79	-0.47	0.36	0.56	-0.78	-0.29	0.59	0.74	-0.55
2*	D	0.00	5.79	-0.43	-0.60	0.35	0.28	-0.57	-0.42	0.22	0.45
2*	C	0.00	5.79	-0.35	0.28	0.43	-0.60	-0.22	0.45	0.57	-0.42

1* Frame lines: 8
2* Frame lines: 7

BUILDING B00416b

4

DEVELOPED BY:

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1440 18TH AVENUE SW
DYERSVILLE, IA 52040
P.563.875.6113
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WWW.CLEARSPAN.COM

ORDER #: 7878201

CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.–NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.–NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

ANCHOR BOLT REACTIONS BUILDING B b

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

March 27, 2026 | SHEET 41 OF 151 | DWG. NO. 2025-D-010

FOR REFERENCE ONLY

NOTES FOR REACTIONS

1. All loading conditions are examined and only maximum/minimum H or V and the corresponding H or V are reported.
2. Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
3. Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
4. Building reactions are based on the following building data:

Width	(ft)	= 12.0
Length	(ft)	= 66.5
Eave Height	(ft)	= 17.0/ 18.0
Roof Slope	(rise/12)	= 1.00
Roof Dead Load	(psf)	= 2.2
Wall Dead Load		
Left Endwall	(psf)	= 2.0
Right Endwall	(psf)	= 2.0
Front Sidewall	(psf)	= 2.0
Back Sidewall	(psf)	= 2.0
Live Load	(psf)	= 20.0
Collateral Load	(psf)	= 10.0
Wind Speed	(mph)	=105.0
Wind Code		=CBC 22 (IBC 21)
Exposure		=C
Closure		=Enclosed
Internal Wind Coeff		=-0.18, +0.18
Risk Category		=IV - Post
Importance - Wind		= 1.00
Importance - Seismic		= 1.50
Seismic Design Category		=E
Seismic Coeff	(Sms)	= 2.35

5. Loading conditions are:

1 Dead+Collateral+Live
2 Dead+0.6Wind_Long2L
3 Dead+0.6Wind_Long2R
4 Dead+Collateral+0.75Live+0.45Wind_Long2R
5 0.6Dead+0.6Wind_Left1
6 0.6Dead+0.6Wind_Left2
7 0.6Dead+0.6Wind_Long1R
8 0.6Dead+0.6Wind_Long2R
9 1.22Dead+1.22Collateral+0.7Seismic_Left
10 1.16Dead+1.16Collateral+0.75Live+0.53Seismic_LongR
11 0.38Dead+0.7Seismic_Right
12 0.38Dead+0.7Seismic_LongL
13 0.6Dead+0.6Wind_Right2+0.6Wind_Suction
14 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
15 1.22Dead+1.22Collateral+0.7Seismic_Right

BUILDING BRACING REACTIONS

Wall Loc	Wall Line	Col Line		Reactions in plane of wall Wind Horz	Reactions in plane of wall Seismic Horz	Panel_Shear (lb/ft) Wind	Panel_Shear (lb/ft) Seis	Note
L_EW	2							(h)
F_SW	B							(f)
R_EW	6							(h)
B_SW	A	5,4	*	0.98	7.28			

(f)Bracing loads are applied to adjacent building
(h)Rigid frame at endwall

*See RF reactions table for vertical and horizontal reactions in plane of the rigid frame.

Reactions for seismic represent shear force, Eh
Reaction values shown are unfactored

RIGID FRAME: MAXIMUM REACTIONS

Frm Id	Col Line	Load Id	Column_Reactions(k) Horz	Vert
4*	A	1	0.12	1.93
		6	-0.48	-0.14
		7	0.36	-0.70
		8	0.39	-0.36
4*	B	1	-0.12	1.11
		5	-0.18	-0.48
		9	-1.12	0.50
		11	1.05	0.09

4* Frame lines: 6

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Id	Column Line	-----Dead---- Horz	Vert	--Collateral- Horz	Vert	-----Live---- Horz	Vert	--Wind_Left1- Horz	Vert	-Wind_Right1- Horz	Vert	--Wind_Left2- Horz	Vert
1*	A	0.01	0.53	0.03	0.36	0.07	0.72	-0.39	-0.86	0.39	-0.63	-0.63	-0.53
1*	B	-0.01	0.08	-0.03	0.21	-0.07	0.42	-0.19	-0.60	0.68	-0.20	-0.59	-0.50
2*	A	0.02	0.48	0.07	0.97	0.14	1.92	-0.64	-1.74	0.88	-1.48	-1.28	-0.79
2*	B	-0.02	0.18	-0.07	0.62	-0.14	1.24	-0.32	-1.36	1.61	-0.43	-1.45	-1.12
3*	A	0.03	0.65	0.12	1.77	0.24	3.38	-1.01	-2.97	1.52	-2.57	-2.19	-1.23
3*	B	-0.03	0.29	-0.12	1.14	-0.24	2.17	-0.44	-2.28	2.77	-0.75	-2.51	-1.85
4*	A	0.01	0.38	0.04	0.52	0.07	1.03	-0.47	-1.12	0.54	-0.91	-0.82	-0.61
4*	B	-0.01	0.11	-0.04	0.33	-0.07	0.66	-0.28	-0.91	0.98	-0.27	-0.89	-0.78

Frame Id	Column Line	-Wind_Right2- Horz	Vert	--Wind_Long1- Horz	Vert	--Wind_Long2- Horz	Vert	-Seismic_Left Horz	Vert	Seismic_Right Horz	Vert	Seismic_Long1 Horz	Vert
1*	A	0.15	-0.30	0.40	-1.03	0.43	-0.63	0.00	0.05	0.00	-0.05	0.00	0.00
1*	B	0.28	-0.11	0.83	-0.42	0.74	-0.19	-1.09	-0.05	1.09	0.05	0.00	0.00
2*	A	0.24	-0.53	1.10	-2.29	1.16	-1.57	0.00	0.10	0.00	-0.10	0.00	0.00
2*	B	0.47	-0.19	2.14	-0.80	1.99	-0.34	-2.46	-0.10	2.46	0.10	0.00	0.00
3*	A	0.34	-0.83	2.01	-4.47	2.09	-3.29	0.00	0.19	0.00	-0.19	0.00	-3.99
3*	B	0.70	-0.32	3.82	-1.32	3.57	-0.57	-4.51	-0.19	4.51	0.19	0.00	0.00
4*	A	0.19	-0.40	0.59	-1.55	0.63	-0.97	0.00	0.06	0.00	-0.06	0.00	0.00
4*	B	0.38	-0.14	1.24	-0.62	1.12	-0.26	-1.51	-0.06	1.51	0.06	0.00	0.00

Frame Id	Column Line	Seismic_Long2 Horz	Vert
1*	A	0.00	0.00
1*	B	0.00	0.00
2*	A	0.00	0.00
2*	B	0.00	0.00
3*	A	0.00	3.99
3*	B	0.00	0.00
4*	A	0.00	0.00
4*	B	0.00	0.00

1* Frame lines: 2
2* Frame lines: 3
3* Frame lines: 4 5
4* Frame lines: 6

4

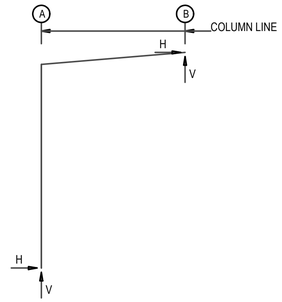
ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Wind Press Horz	Wind Suct Horz	Seis Long Horz
6	B	0.18	-0.96	1.05	0.10

ENDWALL COLUMN: MAXIMUM REACTIONS

Frm Line	Col Line	Load Id	Column_Reactions(k) Horz	Vert
6	B	13	0.63	0.11
		14	-0.57	0.11
		15	0.00	0.21

FRAME LINES: 2 3 4 5 6



RIGID FRAME: MAXIMUM REACTIONS

Frm Id	Col Line	Load Id	Column_Reactions(k) Horz	Vert
1*	A	1	0.11	1.60
		4	0.29	1.14
		6	-0.37	0.00
		7	0.25	-0.30
1*	B	1	-0.11	0.71
		5	-0.12	-0.31
		9	-0.82	0.33
		11	0.76	0.06

1* Frame lines: 2

RIGID FRAME: MAXIMUM REACTIONS

Frm Id	Col Line	Load Id	Column_Reactions(k) Horz	Vert
2*	A	1	0.22	3.37
		3	0.71	-0.46
		6	-0.76	-0.19
		7	0.67	-1.09
2*	B	1	-0.22	2.03
		5	-0.20	-0.71
		9	-1.83	0.90
		11	1.71	0.14

2* Frame lines: 3

RIGID FRAME: MAXIMUM REACTIONS

Frm Id	Col Line	Load Id	Column_Reactions(k) Horz	Vert
3*	A	2	1.29	-1.32
		6	-1.30	-0.35
		10	0.36	7.45
		12	0.01	-2.55
3*	B	1	-0.39	3.60
		5	-0.28	-1.20
		9	-3.35	1.61
		11	3.15	0.24

3* Frame lines: 4 5

BUILDING C00416

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ORDER #: 7878201
CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.–NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.–NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

ANCHOR BOLT REACTIONS BUILDING C

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

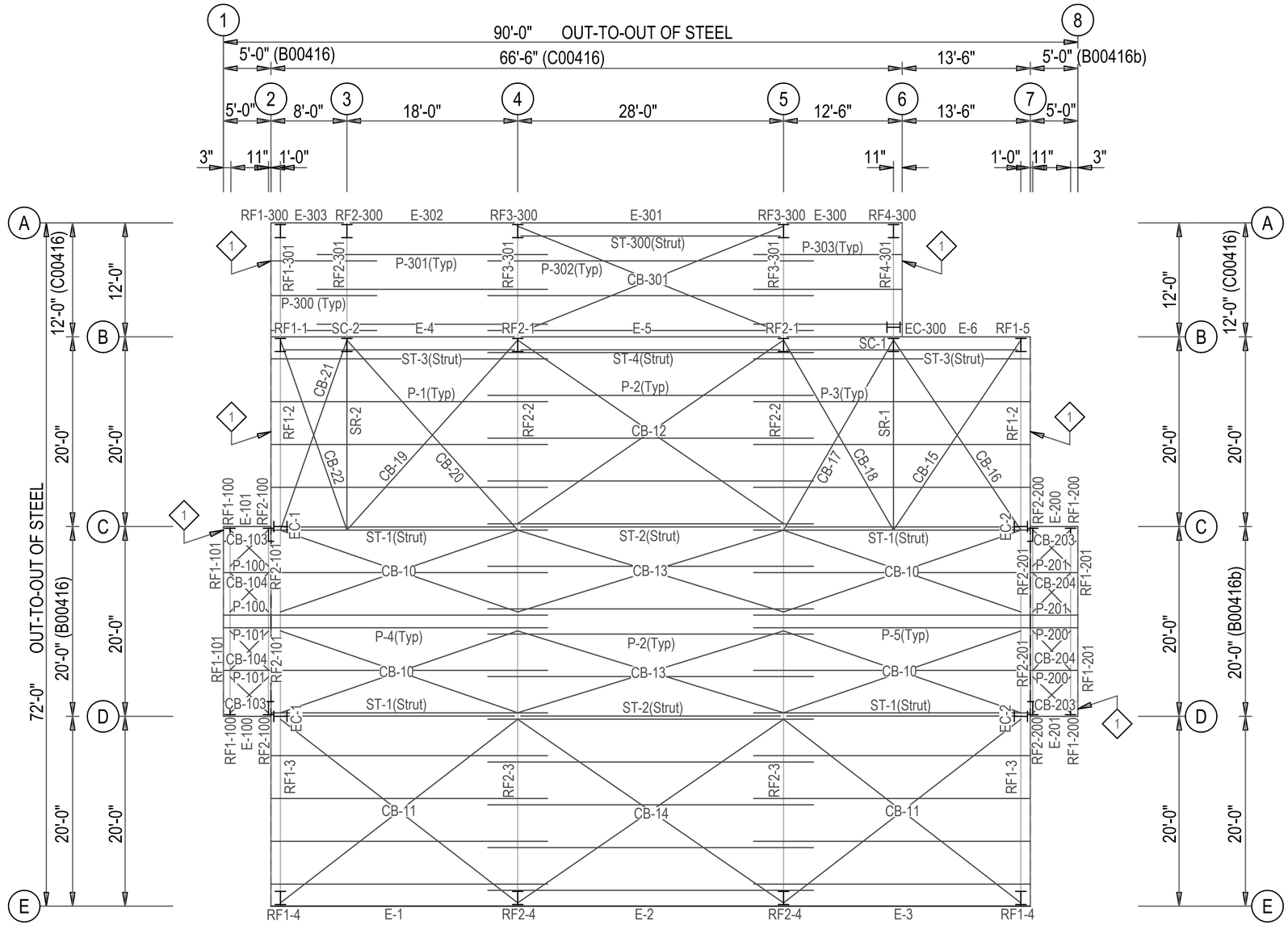
PRINCIPAL ENGINEER 5 May 2026 DATE

CITY ENGINEER 5/7/2026 DATE

SPEC. NUMBER 2025-010 PROJECT NUMBER FA11-1061

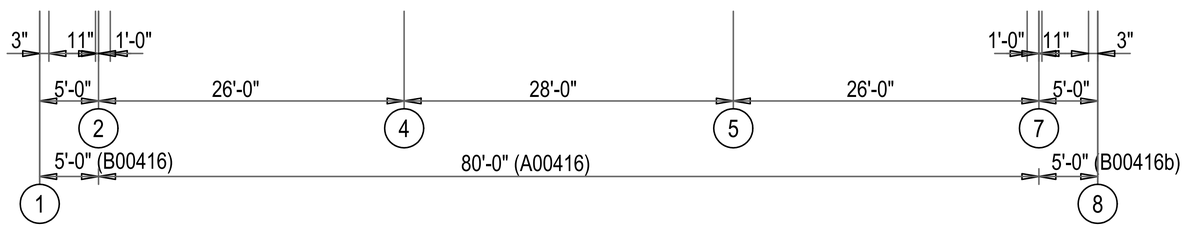
March 27, 2026 SHEET 42 OF 151 DWG. NO. 2025-D-010

FOR REFERENCE ONLY



PURLIN LAP (C00416)
PURLIN LAP (A00416)

3'-1 3/4" 3'-1 3/4"



ROOF FRAMING PLAN

4

MEMBER TABLE
ROOF PLAN

MARK	PART	LENGTH
A00416		
SR-1	W8X10	18'-6 1/2"
SR-2	W8X10	18'-5 1/2"
P-1	Z82512	29'-1 1/2"
P-2	Z82512	34'-3 1/2"
P-3	Z82512	29'-1 1/2"
P-4	Z82512	29'-1 1/2"
P-5	Z82512	29'-1 1/2"
E-1	08432DU1	25'-11 1/2"
E-2	08532DU1	27'-11 1/2"
E-3	08432DU1	25'-11 1/2"
E-4	08434DU1	25'-11 1/2"
E-5	08532DU1	27'-11 1/2"
E-6	08434DU1	25'-11 1/2"
ST-1	T4X2	24'-5 3/4"
ST-2	T5X2	27'-5 3/4"
ST-3	T3X2	24'-5 3/4"
ST-4	T5X2	27'-5 3/4"
CB-10	BR1/2	26'-8 3/4"
CB-11	BR3/4	31'-3 1/4"
CB-12	BR1/2	33'-9"
CB-13	BR1/2	29'-7 1/4"
CB-14	BR5/8	33'-9"
CB-15	BR3/4	23'-8 3/4"
CB-16	BR3/4	22'-9 3/4"
CB-17	BR3/4	21'-9"
CB-18	BR3/4	22'-8 1/2"
CB-19	BR3/4	26'-7 1/2"
CB-20	BR3/4	25'-9 1/4"
CB-21	BR3/4	19'-6 3/4"
CB-22	BR3/4	20'-8 1/2"
B00416		
P-100	Z82516	4'-11 1/2"
P-101	Z82516	4'-11 1/2"
E-100	08434DU1	4'-11 1/2"
E-101	08434DU1	4'-11 1/2"
CB-103	BR1/2	4'-7"
CB-104	BR1/2	5'-7 3/4"
B00416b		
P-200	Z82516	4'-11 1/2"
P-201	Z82516	4'-11 1/2"
E-200	08434DU1	4'-11 1/2"
E-201	08434DU1	4'-11 1/2"
CB-203	BR1/2	4'-7"
CB-204	BR1/2	5'-7 3/4"
C00416		
P-300	Z82516	11'-1 1/2"
P-301	Z82514	24'-3 1/2"
P-302	Z82514	34'-3 1/2"
P-303	Z82514	15'-7 1/2"
E-300	08434DU1	12'-5 1/2"
E-301	08554DU1	27'-11 1/2"
E-302	08434DU1	17'-11 1/2"
E-303	08434DU1	7'-11 1/2"
ST-300	T5X2	27'-5 3/4"
CB-301	BR1/2	29'-11 3/4"

ANGLE TABLE
ROOF PLAN

◇ID	MARK	LENGTH
1	L4x2	20'-0"

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ORDER #: 7878201
CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.–NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.–NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

ROOF PLAN

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

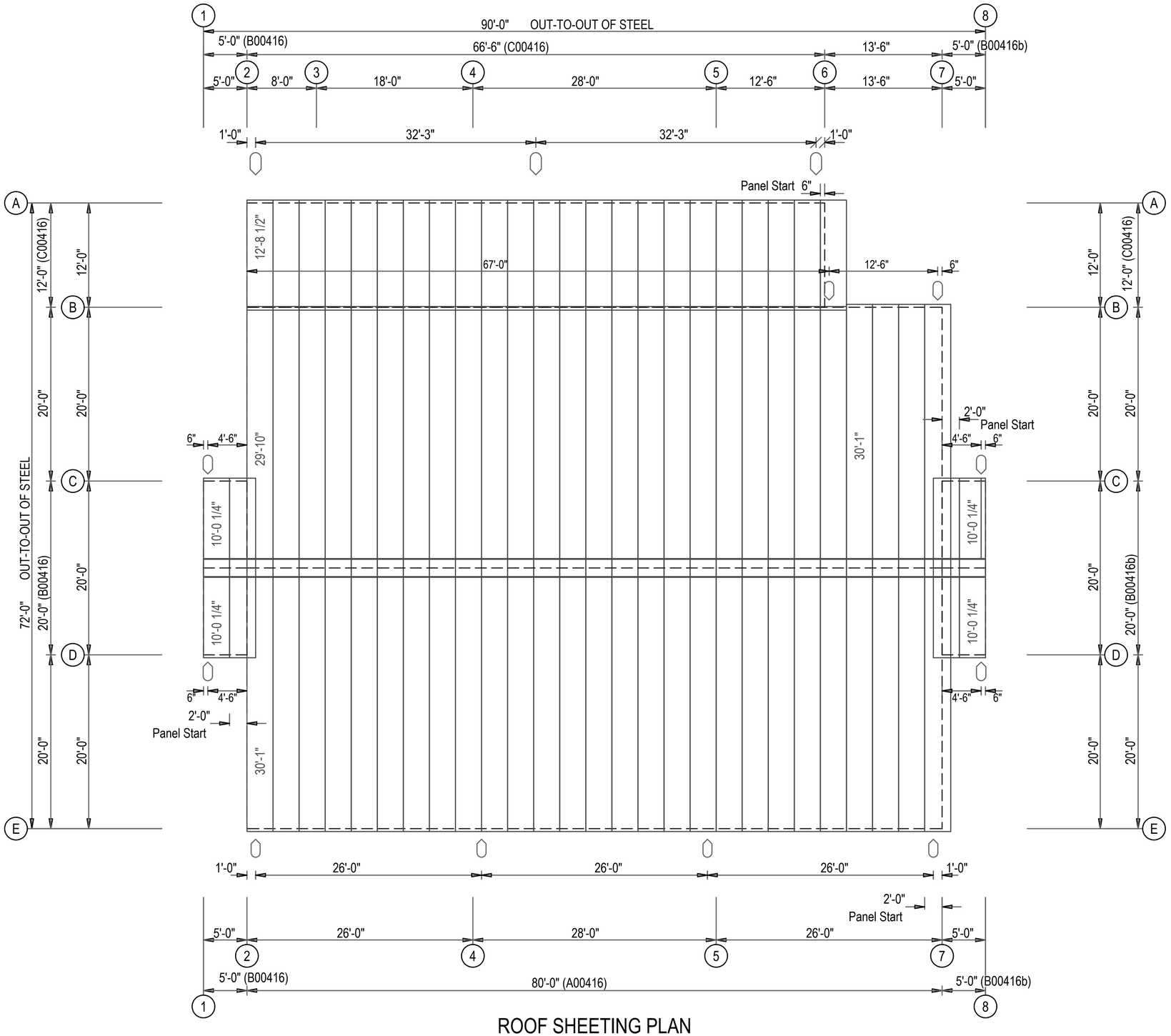
5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061
March 27, 2026 | SHEET 43 OF 151 | DWG. NO. 2025-D-010

FOR REFERENCE ONLY

DOWNSPOUT LOCATIONS



ROOF SHEETING PLAN

PANELS: 26 Ga. RL -

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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

ROOF SHEETING PLAN

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
March 27, 2026	SHEET 44 OF 151	DWG. NO. 2025-D-010

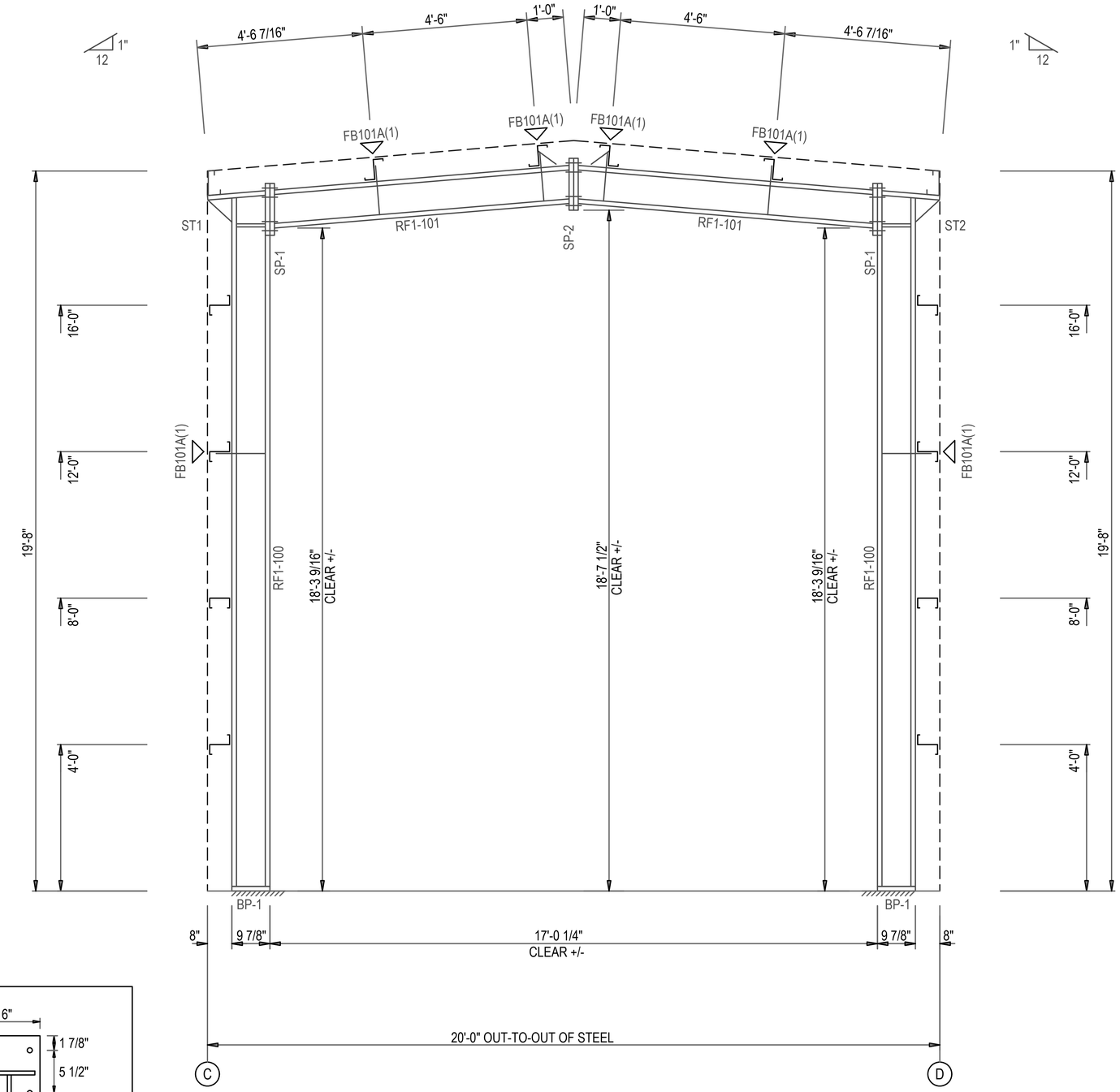
FOR REFERENCE ONLY

SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	0	A325	3/4"	2"
SP-2	4	4	0	A325	3/4"	2"

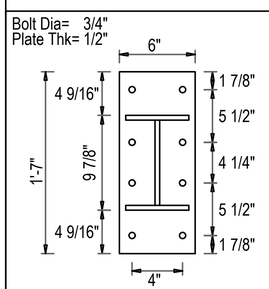
STIFFENER TABLE				
Mark	Stiff Mark	Plate Size Width	Thick	Length
RF1-100	ST1	2.880	0.250	9.035

FLANGE BRACES: FBxx (1 or 2)
(1) One Side; (2) Two Sides
A - FB2X1/8

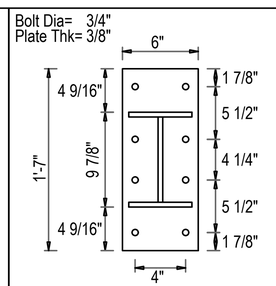
MEMBER SIZE TABLE			
MARK	MEMBER	LENGTH	WEIGHT
RF1-100	W10X12	19'-0 5/8"	272
RF1-101	W10X12	8'-6 1/2"	138



RIGID FRAME ELEVATION: FRAME LINE 1



SP-1



SP-2

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ORDER #: 7878201

CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

RIGID FRAME ELEVATION

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

March 27, 2026 | SHEET 45 OF 151 | DWG. NO. 2025-D-010

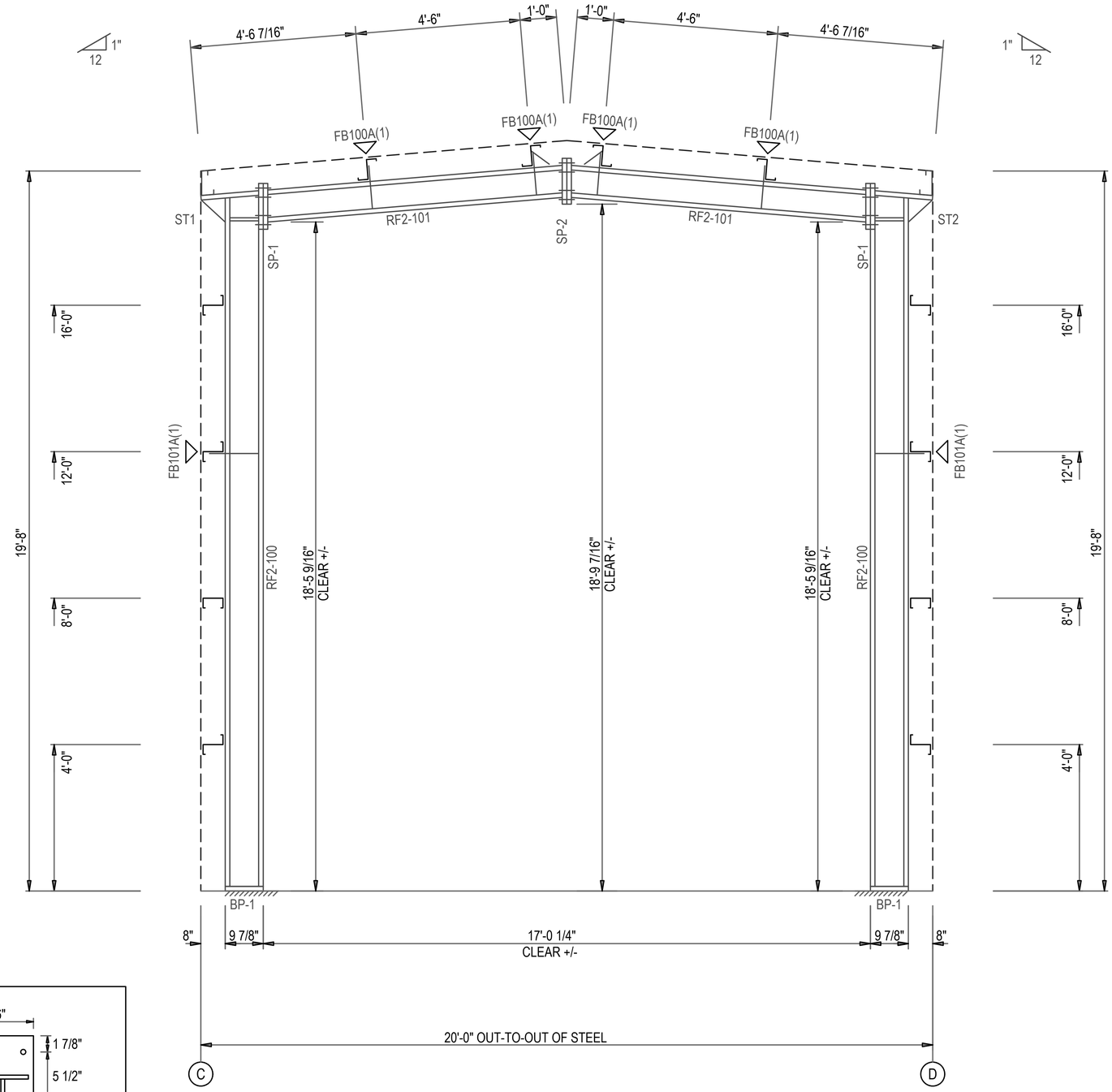
FOR REFERENCE ONLY

SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	0	A325	3/4"	2"
SP-2	4	4	0	A325	3/4"	2"

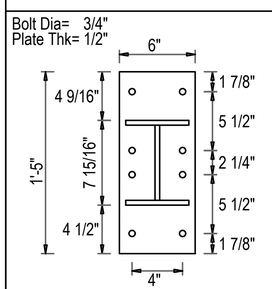
STIFFENER TABLE				
Mark	Stiff Mark	Plate Size Width	Thick	Length
RF2-100	ST1	2.880	0.250	9.035

FLANGE BRACES: FBxx (1 or 2)
(1) One Side; (2) Two Sides
A - FB2X1/8

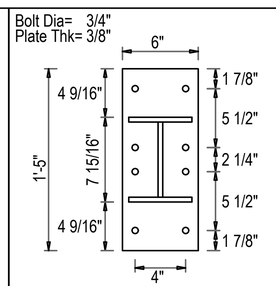
MEMBER SIZE TABLE			
MARK	MEMBER	LENGTH	WEIGHT
RF2-100	W10X12	19'-0 5/8"	271
RF2-101	W8X10	8'-6 1/2"	118



RIGID FRAME ELEVATION: FRAME LINE 2



SP-1



SP-2

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ORDER #: 7878201

CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.–NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.–NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

RIGID FRAME ELEVATION

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

March 27, 2026 | SHEET 46 OF 151 | DWG. NO. 2025-D-010

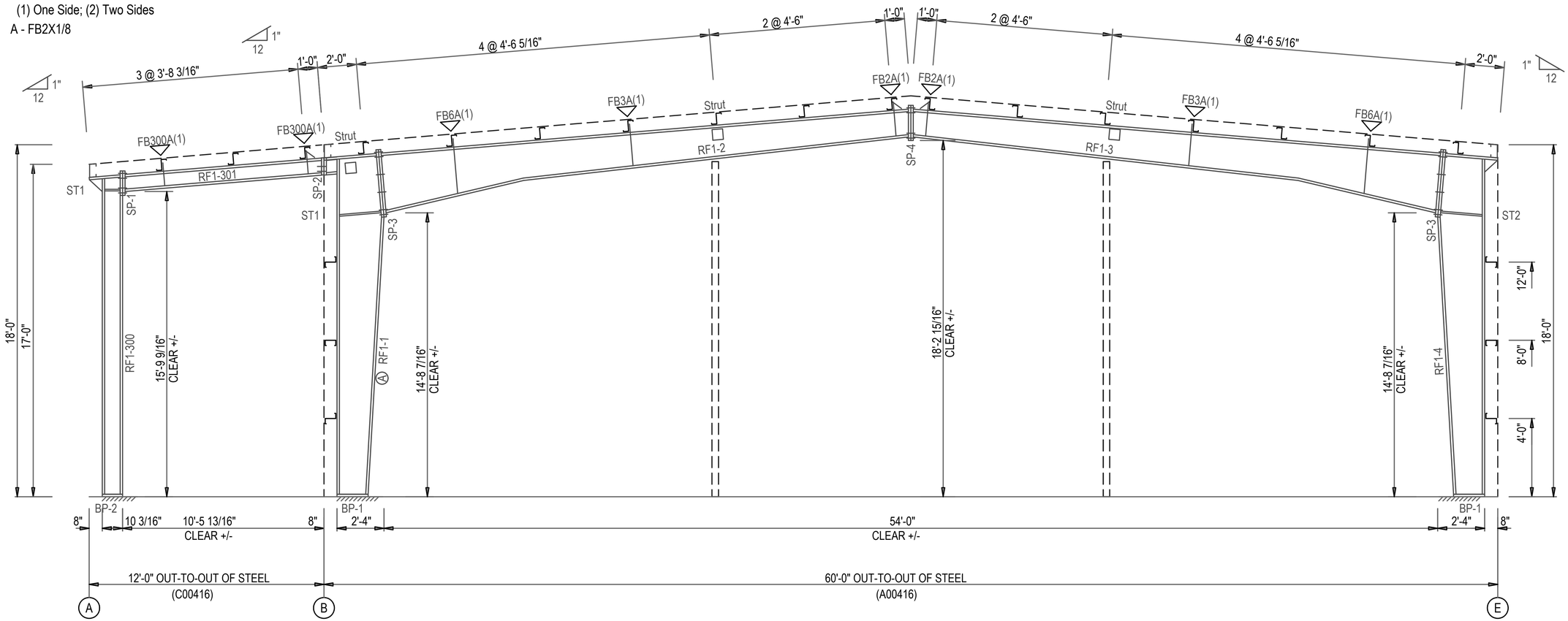
FOR REFERENCE ONLY

SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	4	A325	1"	3"
SP-2	4	4	0	A325	3/4"	2"
SP-1	4	4	0	A325	3/4"	2"
SP-2	4	0	0	A325	3/4"	2"

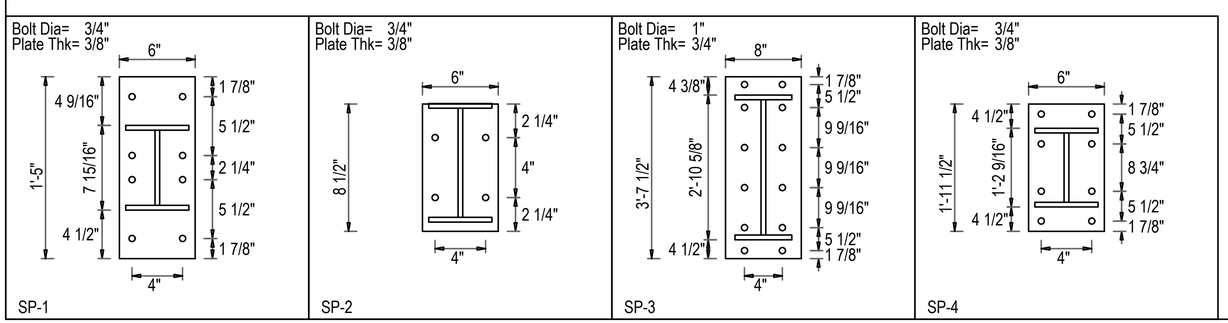
STIFFENER TABLE				
Mark	Stiff Mark	Plate Size Width	Thick	Length
RF1-1	ST1	3.880	0.250	26.57
RF1-4	ST2	3.880	0.250	19.69
RF1-300	ST1	2.880	0.250	9.340

MEMBER TABLE							
Mark	Weight	Length	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF1-1	949 (4)	17'-4 5/8"	16.0/27.0	0.250	17'-5 7/16" (4)	8 x 1/2" x 17'-3 3/8" 8 x 1/4" x 2'-8"	8 x 1/2" x 14'-3"
RF1-2	750	27'-4 1/8"	34.0/21.0 21.0/14.0	0.188 0.188	7'-3" 20'-0"	6 x 1/4" x 27'-3"	6 x 1/4" x 7'-3 15/16" 6 x 1/4" x 19'-10 7/8"
RF1-3	750	27'-4 1/8"	14.0/21.0 21.0/34.0	0.188 0.188	20'-0" 7'-3"	6 x 1/4" x 27'-3"	6 x 1/4" x 19'-10 7/8" 6 x 1/4" x 7'-3 15/16"
RF1-4	922 (4)	17'-4 5/8"	27.0/16.0	0.250	17'-5 7/16" (4)	8 x 1/4" x 2'-8 3/8" 8 x 1/2" x 17'-3 3/8"	8 x 1/2" x 14'-3"
RF1-300	385	16'-4 5/8"	W10X22				
RF1-301	131	10'-6 1/4"	W8X10				

FLANGE BRACES: FBxx (1 or 2)
(1) One Side; (2) Two Sides
A - FB2X1/8



RIGID FRAME ELEVATION: FRAME LINE 2



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ORDER #: 7878201
CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.–NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.–NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

RIGID FRAME ELEVATION

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
March 27, 2026	SHEET 47 OF 151 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

SPLICE BOLT TABLE

Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	4	A325	1"	3 1/2"
SP-2	4	4	2	A325	3/4"	2"
SP-1	4	4	0	A325	3/4"	2"
SP-2	4	0	0	A325	3/4"	2"

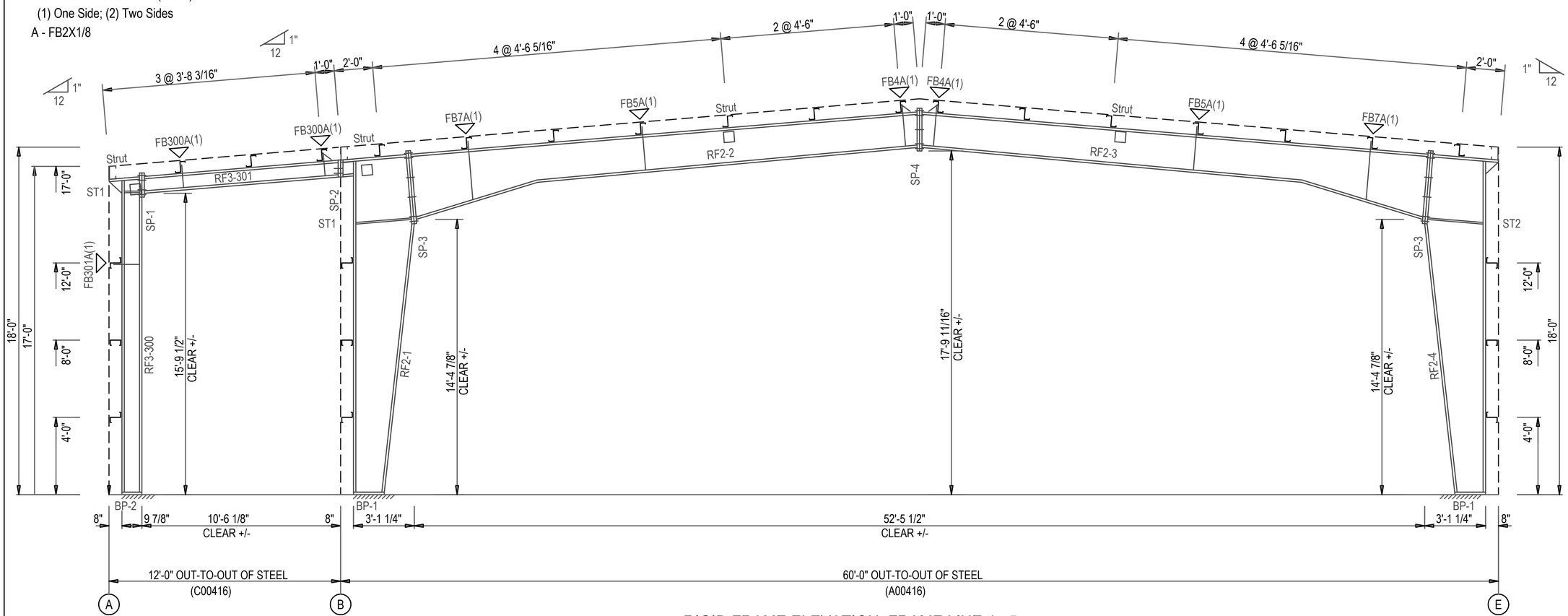
STIFFENER TABLE

Mark	Stiff Mark	Plate Size Width	Thick	Length
RF2-1	ST1	3.880	0.250	35.60
RF2-4	ST2	3.880	0.250	27.84
RF3-300	ST1	2.880	0.250	9.160

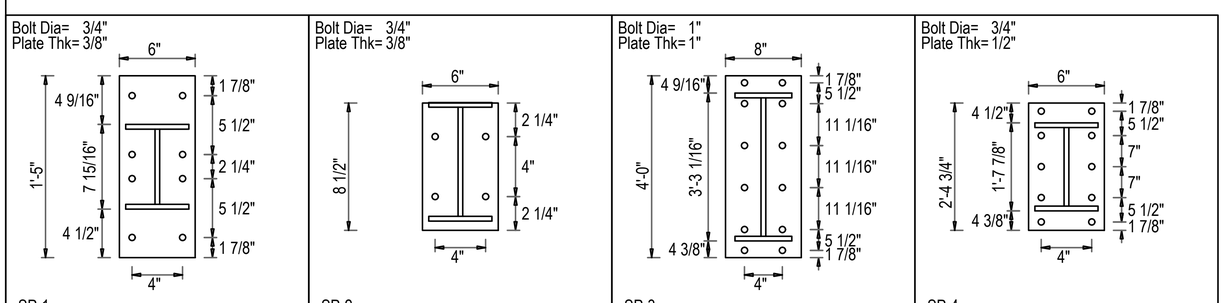
MEMBER TABLE

Mark	Weight	Length	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF2-1	1165	17'-4 5/8"	16.8/36.0	0.250	17'-6 9/16"	8 x 5/8" x 17'-3 13/16" 8 x 5/16" x 3'-4 13/16"	8 x 5/8" x 14'-0 11/16"
RF2-2	979	26'-7 1/16"	38.0/21.0 21.0/19.0	0.188 0.188	6'-5 9/16" 20'-0"	6 x 5/16" x 26'-5 9/16"	6 x 1/2" x 6'-7 3/8" 6 x 1/2" x 19'-10 5/16"
RF2-3	979	26'-7 1/16"	19.0/21.0 21.0/38.0	0.188 0.188	20'-0" 6'-5 9/16"	6 x 5/16" x 26'-5 9/16"	6 x 1/2" x 19'-10 5/16" 6 x 1/2" x 6'-7 3/8"
RF2-4	1143 △4	17'-4 5/8"	36.0/16.8	0.250	17'-6 9/16"	8 x 5/16" x 3'-5 3/16" 8 x 5/8" x 17'-3 13/16"	8 x 5/8" x 14'-0 11/16"
RF3-300	253	16'-4 5/8"	W10X12				
RF3-301	131	10'-6 9/16"	W8X10				

FLANGE BRACES: FBxx (1 or 2)
(1) One Side; (2) Two Sides
A - FB2X1/8



RIGID FRAME ELEVATION: FRAME LINE 4 5



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ORDER #: 7878201
CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.--NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.--NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

RIGID FRAME ELEVATION

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

March 27, 2026 | SHEET 48 OF 151 | DWG. NO. 2025-D-010

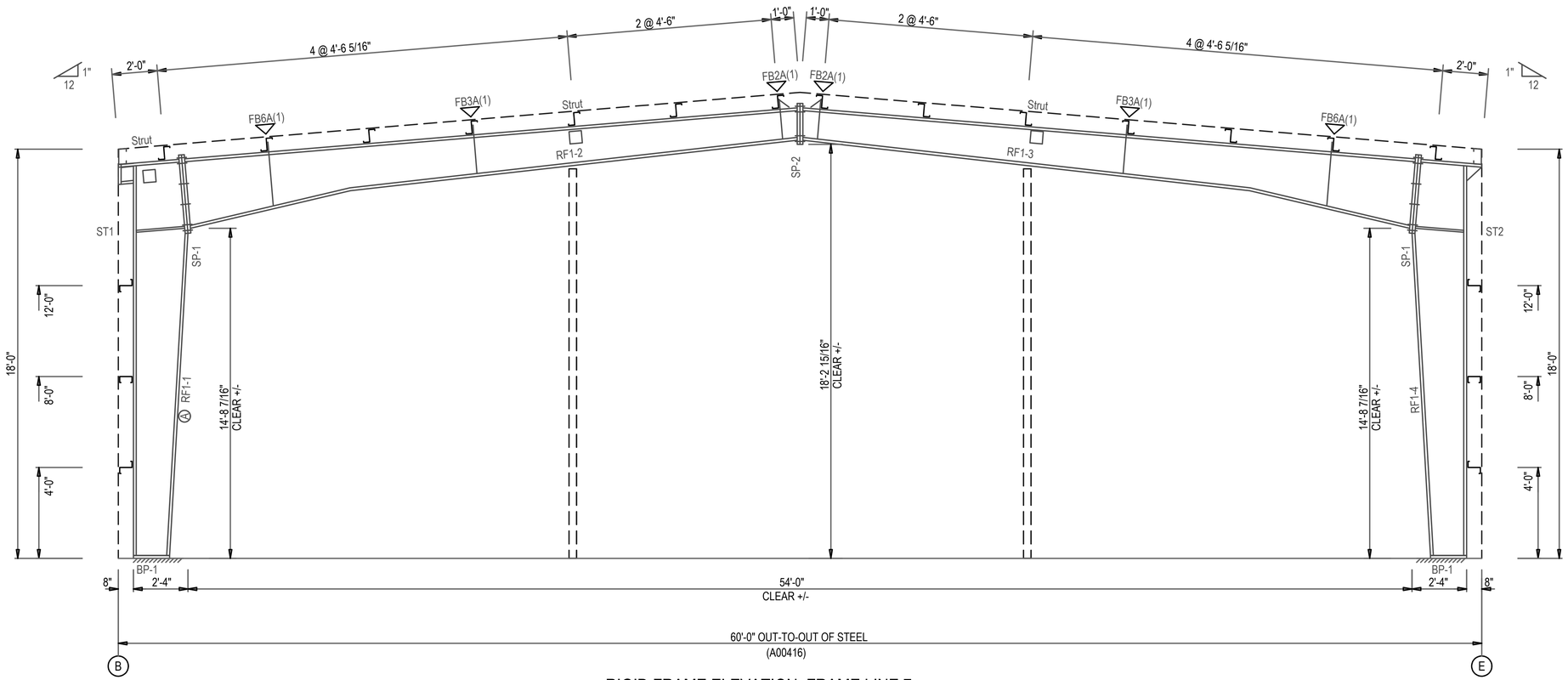
FOR REFERENCE ONLY

SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	4	A325	1"	3"
SP-2	4	4	0	A325	3/4"	2"

STIFFENER TABLE				
Mark	Stiff Mark	Plate Size Width	Thick	Length
RF1-1	ST1	3.880	0.250	26.57
RF1-4	ST2	3.880	0.250	19.69

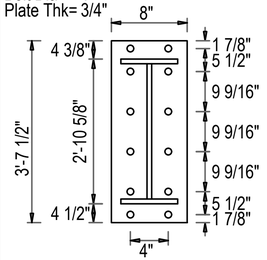
▽FLANGE BRACES: FBxx (1 or 2)
(1) One Side; (2) Two Sides
A - FB2X1/8

MEMBER TABLE							
Mark	Weight	Length	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF1-1	939	17'-4 5/8"	16.0/27.0	0.250	17'-5 7/16" (4)	8 x 1/2" x 17'-3 3/8" 8 x 1/4" x 2'-8"	8 x 1/2" x 14'-3"
RF1-2	741	27'-4 1/8"	34.0/21.0 21.0/14.0	0.188 0.188	7'-3" 20'-0"	6 x 1/4" x 27'-3"	6 x 1/4" x 7'-3 15/16" 6 x 1/4" x 19'-10 7/8"
RF1-3	741	27'-4 1/8"	14.0/21.0 21.0/34.0	0.188 0.188	20'-0" 7'-3"	6 x 1/4" x 27'-3"	6 x 1/4" x 19'-10 7/8" 6 x 1/4" x 7'-3 15/16"
RF1-4	921 (4)	17'-4 5/8"	27.0/16.0	0.250	17'-5 7/16" (4)	8 x 1/4" x 2'-8 3/8" 8 x 1/2" x 17'-3 3/8"	8 x 1/2" x 14'-3"



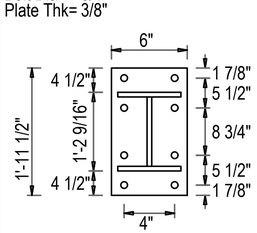
RIGID FRAME ELEVATION: FRAME LINE 7

Bolt Dia= 1"
Plate Thk= 3/4"



SP-1

Bolt Dia= 3/4"
Plate Thk= 3/8"



SP-2

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CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.–NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.–NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

RIGID FRAME ELEVATION

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
March 27, 2026	SHEET 49 OF 151	DWG. NO. 2025-D-010

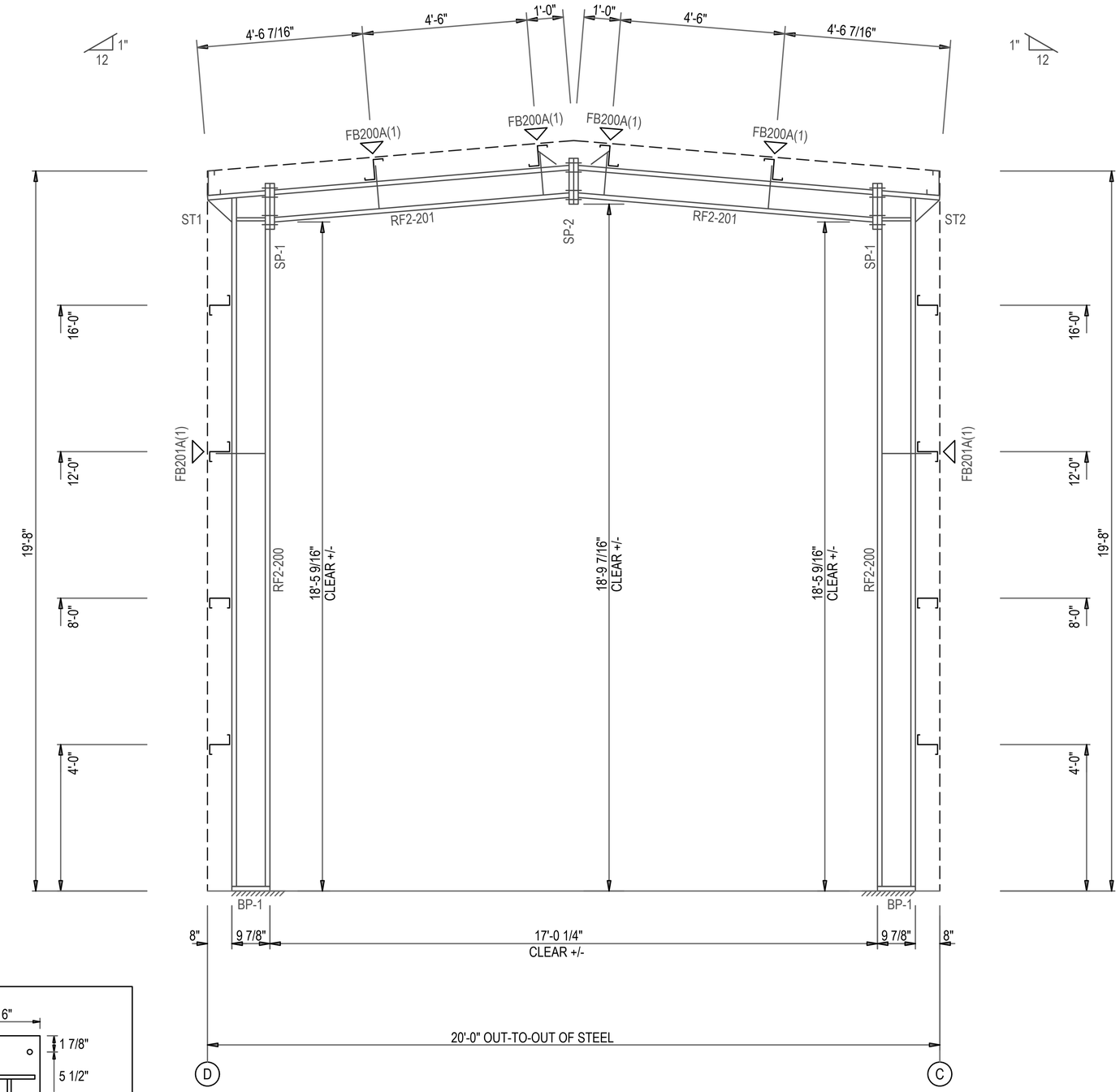
FOR REFERENCE ONLY

SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	0	A325	3/4"	2"
SP-2	4	4	0	A325	3/4"	2"

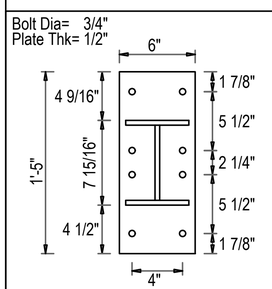
STIFFENER TABLE				
Mark	Stiff Mark	Plate Size Width	Thick	Length
RF2-200	ST1	2.880	0.250	9.035

FLANGE BRACES: FBxx (1 or 2)
(1) One Side; (2) Two Sides
A - FB2X1/8

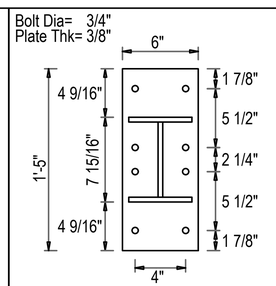
MEMBER SIZE TABLE			
MARK	MEMBER	LENGTH	WEIGHT
RF2-200	W10X12	19'-0 5/8"	271
RF2-201	W8X10	8'-6 1/2"	118



RIGID FRAME ELEVATION: FRAME LINE 7



SP-1



SP-2

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ORDER #: 7878201
CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.–NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.–NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

RIGID FRAME ELEVATION

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

PRINCIPAL ENGINEER — 5 May 2026 DATE
CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
March 27, 2026	SHEET 50 OF 151	DWG. NO. 2025-D-010

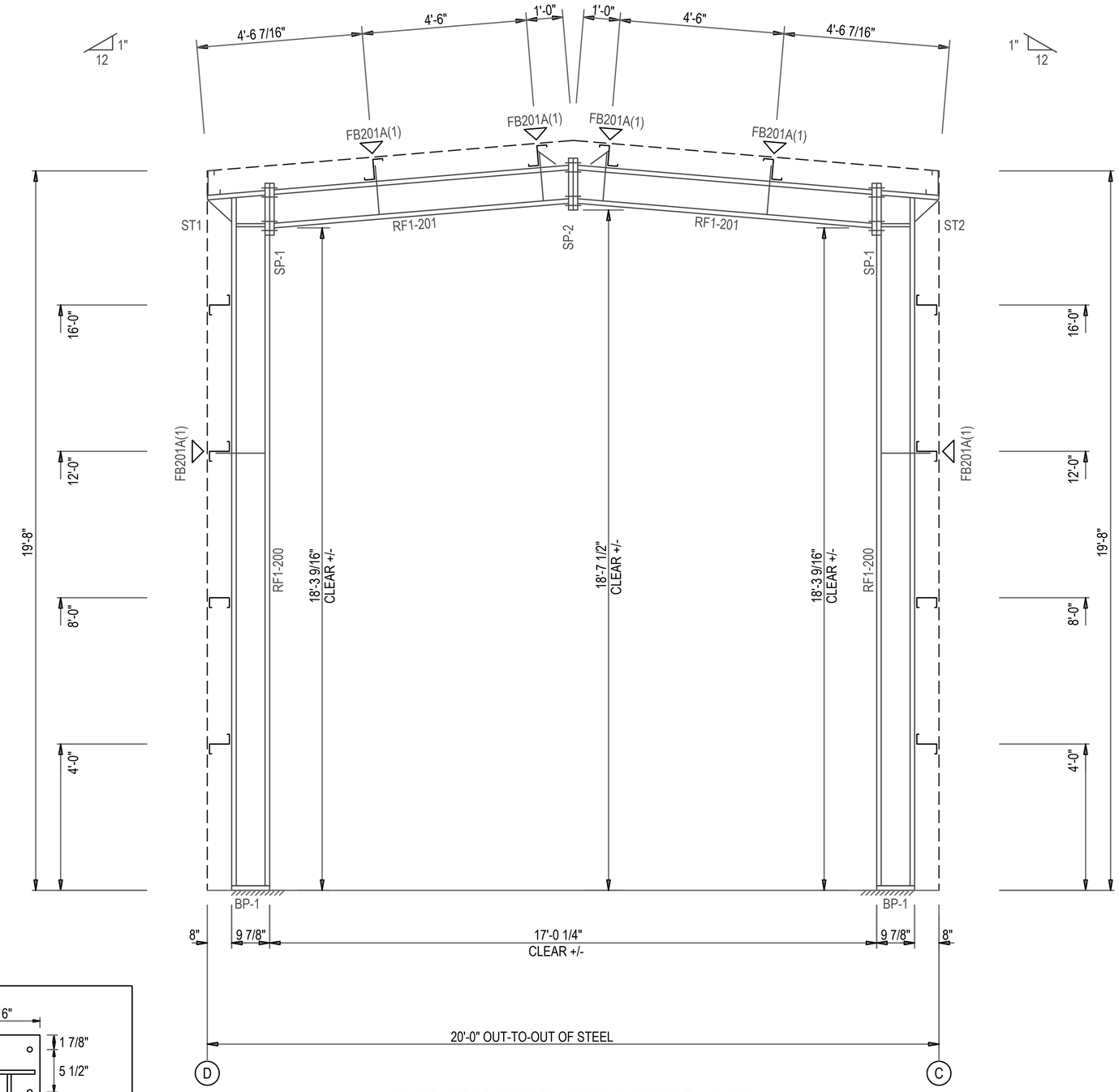
FOR REFERENCE ONLY

SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	0	A325	3/4"	2"
SP-2	4	4	0	A325	3/4"	2"

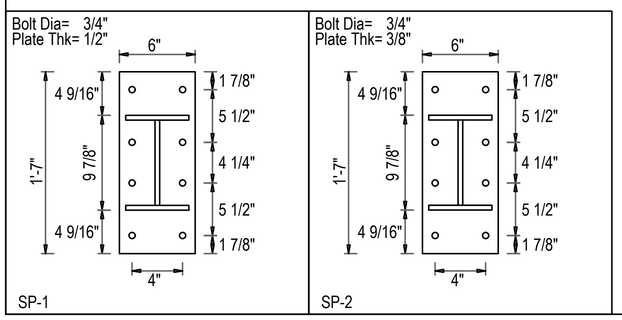
STIFFENER TABLE				
Mark	Stiff Mark	Plate Size Width	Thick	Length
RF1-200	ST1	2.880	0.250	9.035

FLANGE BRACES: FBxx (1 or 2)
(1) One Side; (2) Two Sides
A - FB2X1/8

MEMBER SIZE TABLE			
MARK	MEMBER	LENGTH	WEIGHT
RF1-200	W10X12	19'-0 5/8"	272
RF1-201	W10X12	8'-6 1/2"	138



RIGID FRAME ELEVATION: FRAME LINE 8



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ORDER #: 7878201

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PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

RIGID FRAME ELEVATION

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

5 May 2026
PRINCIPAL ENGINEER DATE

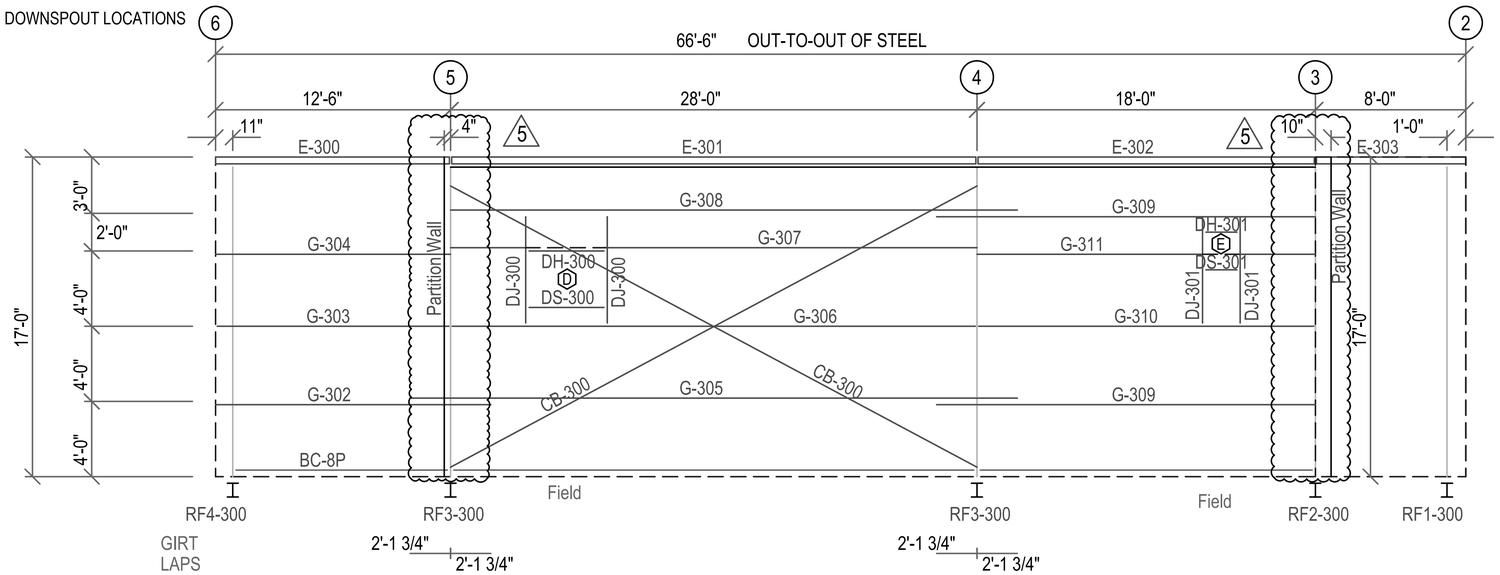
5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

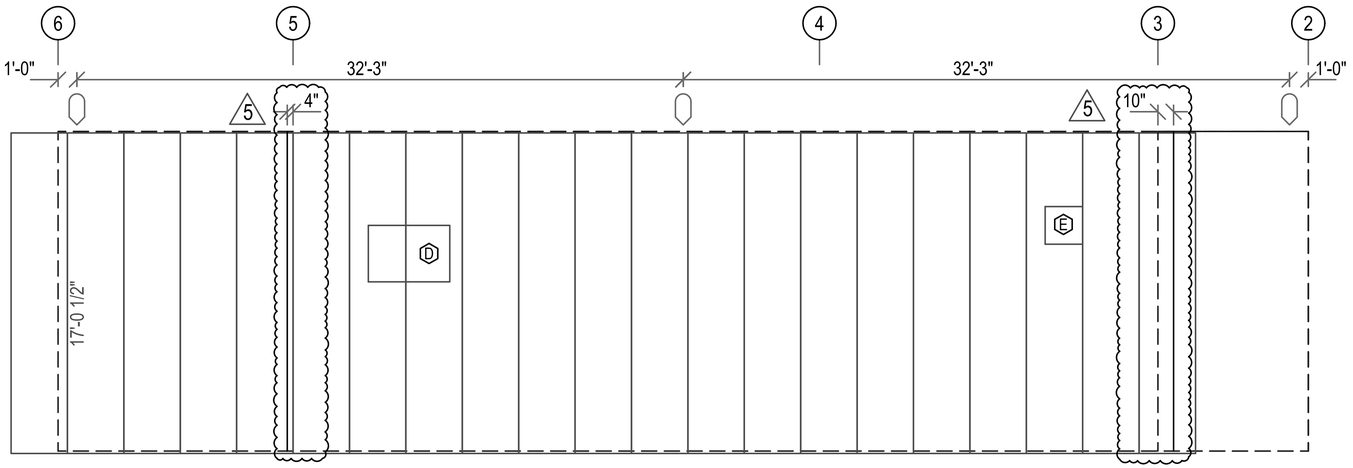
March 27, 2026 | SHEET 51 OF 151 | DWG. NO. 2025-D-010

FOR REFERENCE ONLY

DOWNSPOUT LOCATIONS

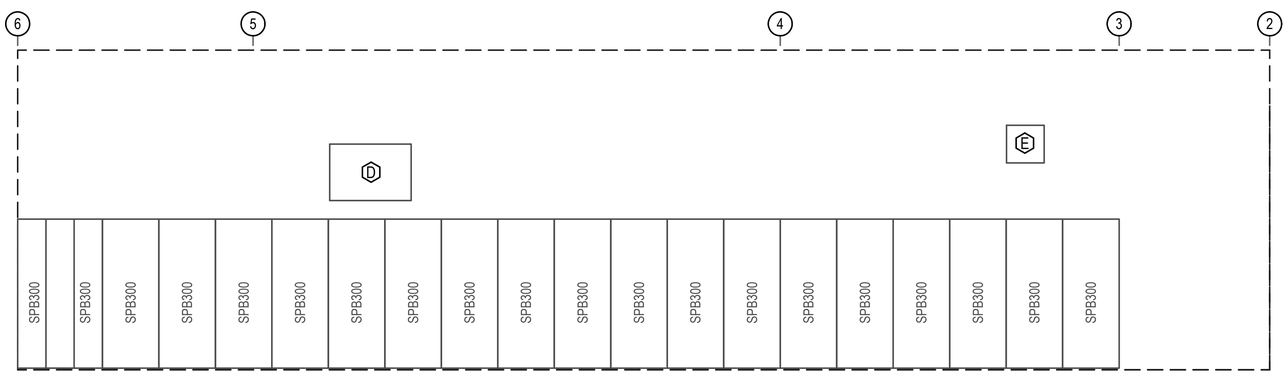


SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING: FRAME LINE A

PANELS: 26 Ga. RL



SIDEWALL LINER SHEETING: FRAME LINE A

PANELS: 29 Ga. RL

FRAME-OUT SCHEDULE		
CALL-OUT	DESCRIPTION	ROUGH OPENING
D	FRAMED OPENING 52" X 36"	(VERIFY)
E	FRAMED OPENING 24" X 24"	(VERIFY)

MEMBER TABLE FRAME LINE A	
MARK	PART
DJ-300	C83516
DJ-301	C83516
DH-300	C82516
DH-301	C82516
DS-300	C82516
DS-301	C82516
E-300	08434DU1
E-301	08554DU1
E-302	08434DU1
E-303	08434DU1
G-302	Z82516
G-303	C82516
G-304	Z82516
G-305	Z82516
G-306	C82514
G-307	Z82516
G-308	Z82516
G-309	Z82516
G-310	C82516
G-311	Z82516
CB-300	BR3/4

DEVELOPED BY:

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ORDER #: 7878201

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PROFESSIONAL SEAL

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1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

SIDEWALL ELEVATION

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

March 27, 2026 | SHEET 52 OF 151 | DWG. NO. 2025-D-010

4

FOR REFERENCE ONLY

DOWNSPOUT LOCATIONS

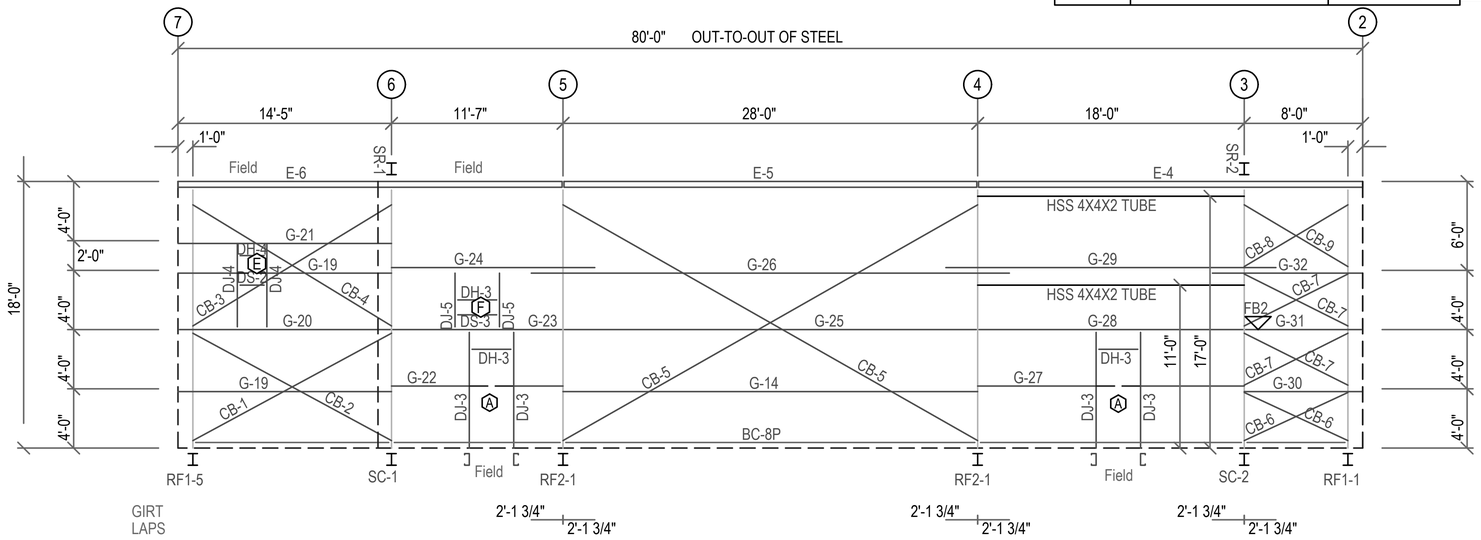
FRAME-OUT SCHEDULE		
CALL-OUT	DESCRIPTION	ROUGH OPENING
A	3'-0" X 6'-8" WALK-IN DOOR	(VERIFY)
E	24" X 24" FRAMED OPENING	(VERIFY)
F	36" X 12" FRAMED OPENING	(VERIFY)

BOLT TABLE
FRAME LINE B

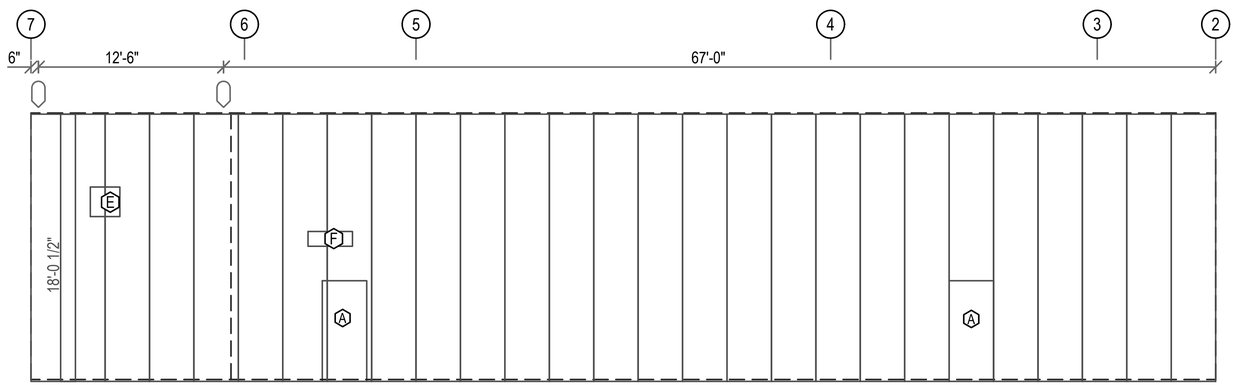
LOCATION	QUAN	TYPE	DIA	LENGTH
SC-1	2	A325	1/2"	1 1/2"
SC-2	2	A325	1/2"	1 1/2"

FLANGE BRACE TABLE
FRAME LINE B

▽ID	MARK	LENGTH
1	FB2	2'-3 1/2"



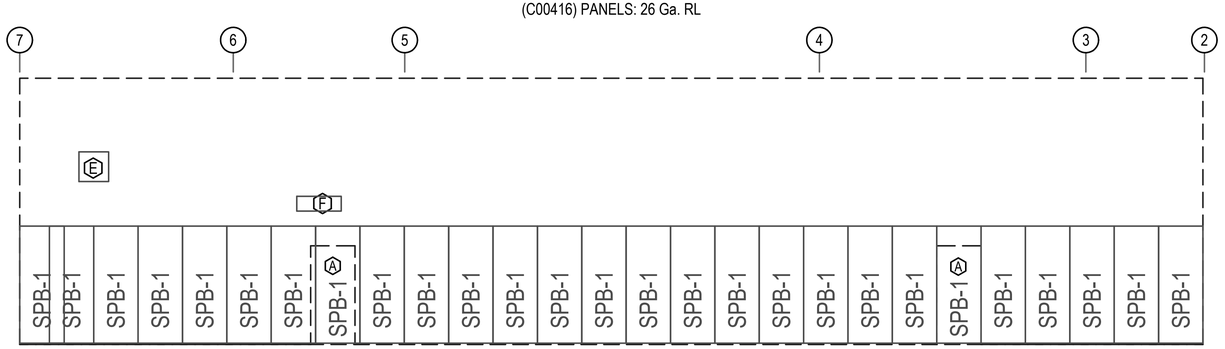
SIDEWALL FRAMING: FRAME LINE B



(C00416)

SIDEWALL SHEETING: FRAME LINE B

PANELS: 26 Ga. RL
(C00416) PANELS: 26 Ga. RL



SIDEWALL LINER SHEETING: FRAME LINE B

PANELS: 29 Ga. RL

4

MEMBER TABLE
FRAME LINE B

MARK	PART
SC-1	W1663030
SC-2	W1763030
SR-1	W8X10
SR-2	W8X10
DJ-3	C83516
DJ-4	C83516
DJ-5	C83516
DH-3	C82516
DH-4	C82516
DS-2	C82516
DS-3	C82516
E-4	08434DU1
E-5	08532DU1
E-6	08434DU1
G-14	Z82516
G-19	Z82516
G-20	C82516
G-21	Z82516
G-22	Z82516
G-23	C82516
G-24	Z82516
G-25	C82514
G-26	Z82516
G-27	Z82516
G-28	C82516
G-29	Z82516
G-30	Z82516
G-31	C82516
G-32	Z82516
CB-1	BR1
CB-2	BR1
CB-3	BR1
CB-4	BR1
CB-5	BR1
CB-6	BR1
CB-7	BR1
CB-8	BR1
CB-9	BR1

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WWW.CLEARSPAN.COM

ORDER #: 7878201
CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.–NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.–NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

SIDEWALL ELEVATION

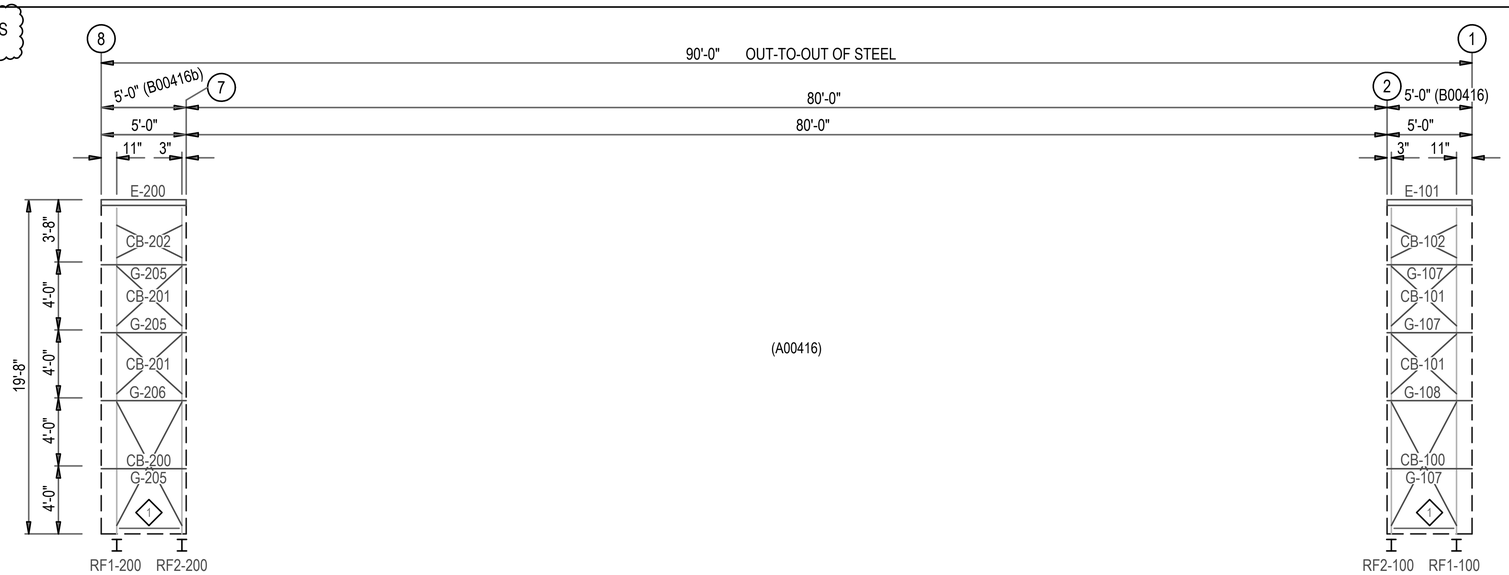
DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

PRINCIPAL ENGINEER — DATE: 5 May 2026
CITY ENGINEER — DATE: 5/7/2026

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
March 27, 2026	SHEET 53 OF 151	DWG. NO. 2025-D-010

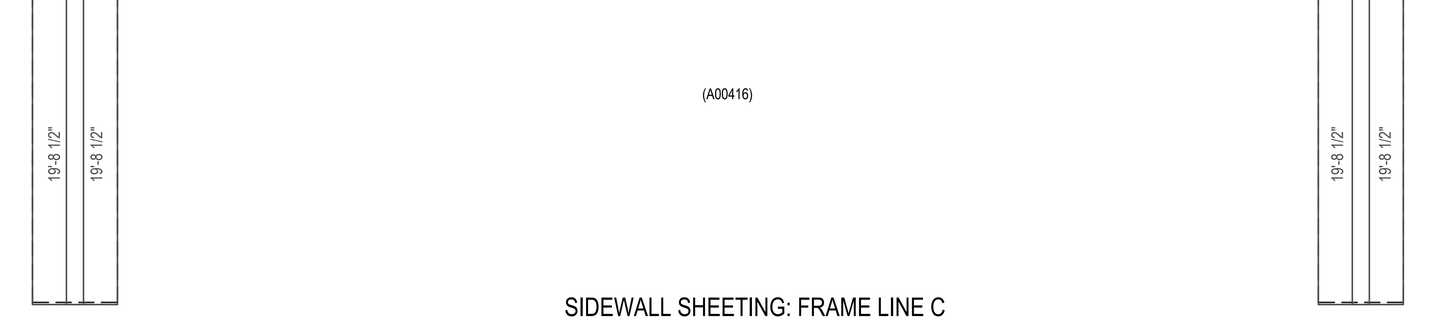
FOR REFERENCE ONLY

DOWNSPOUT LOCATIONS



(A00416)

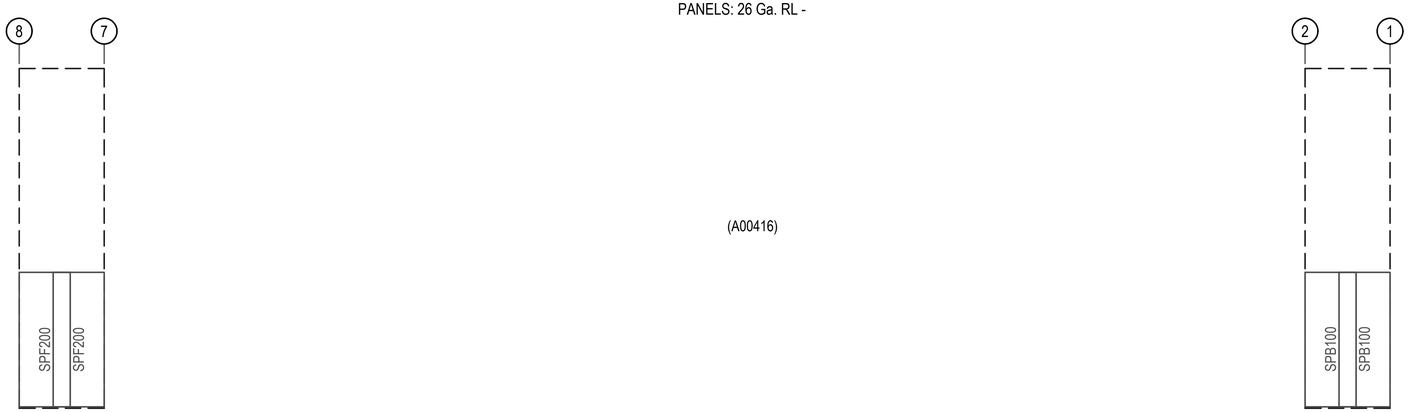
SIDEWALL FRAMING: FRAME LINE C



(A00416)

SIDEWALL SHEETING: FRAME LINE C

PANELS: 26 Ga. RL -



(A00416)

SIDEWALL LINER SHEETING: FRAME LINE C

PANELS: 29 Ga. RL -

MEMBER TABLE FRAME LINE C	
MARK	PART
B00416	
E-101	08434DU1
G-107	Z82516
G-108	C82516
CB-100	BR1/2
CB-101	BR1/2
CB-102	BR1/2
B00416b	
E-200	08434DU1
G-205	Z82516
G-206	C82516
CB-200	BR1/2
CB-201	BR1/2
CB-202	BR1/2

ANGLE TABLE FRAME LINE C		
◇ ID	MARK	PART
1	BC-2	U8216

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ORDER #: 7878201

CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.–NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.–NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

SIDEWALL ELEVATION

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

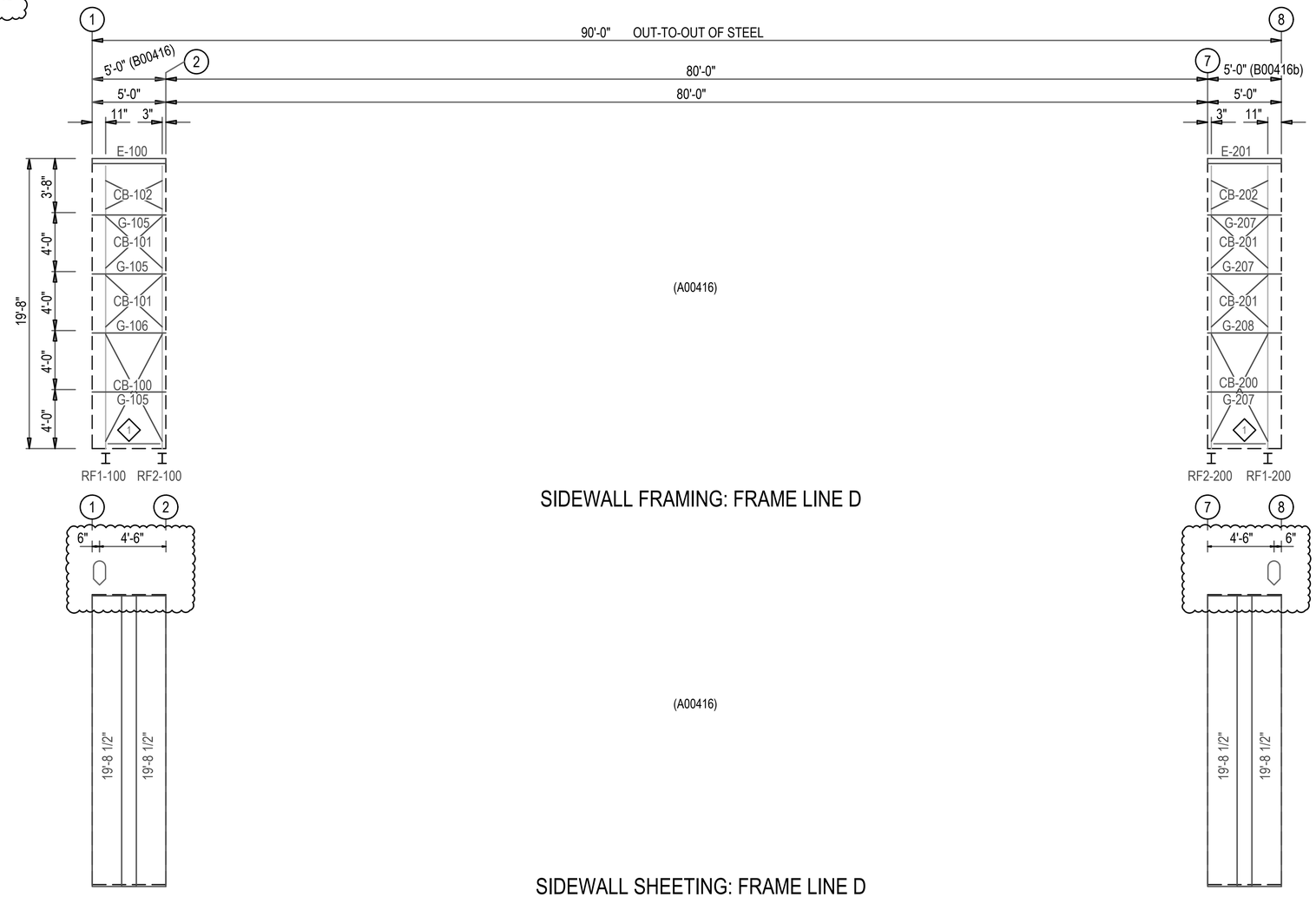
5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
March 27, 2026	SHEET 54 OF 151	DWG. NO. 2025-D-010

FOR REFERENCE ONLY

DOWNSPOUT LOCATIONS



SIDEWALL FRAMING: FRAME LINE D

(A00416)

SIDEWALL SHEETING: FRAME LINE D

PANELS: 26 Ga. RL -

SIDEWALL LINER SHEETING: FRAME LINE D

PANELS: 29 Ga. RL -

MEMBER TABLE FRAME LINE D	
MARK	PART
B00416	
E-100	08434DU1
G-105	Z82516
G-106	C82516
CB-100	BR1/2
CB-101	BR1/2
CB-102	BR1/2
B00416b	
E-201	08434DU1
G-207	Z82516
G-208	C82516
CB-200	BR1/2
CB-201	BR1/2
CB-202	BR1/2

ANGLE TABLE FRAME LINE D		
◇ID	MARK	PART
1	BC-2	U8216

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ORDER #: 7878201

CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.–NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.–NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

SIDEWALL ELEVATION

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061

March 27, 2026 | SHEET 55 OF 151 | DWG. NO. 2025-D-010

FOR REFERENCE ONLY

DOWNSPOUT LOCATIONS

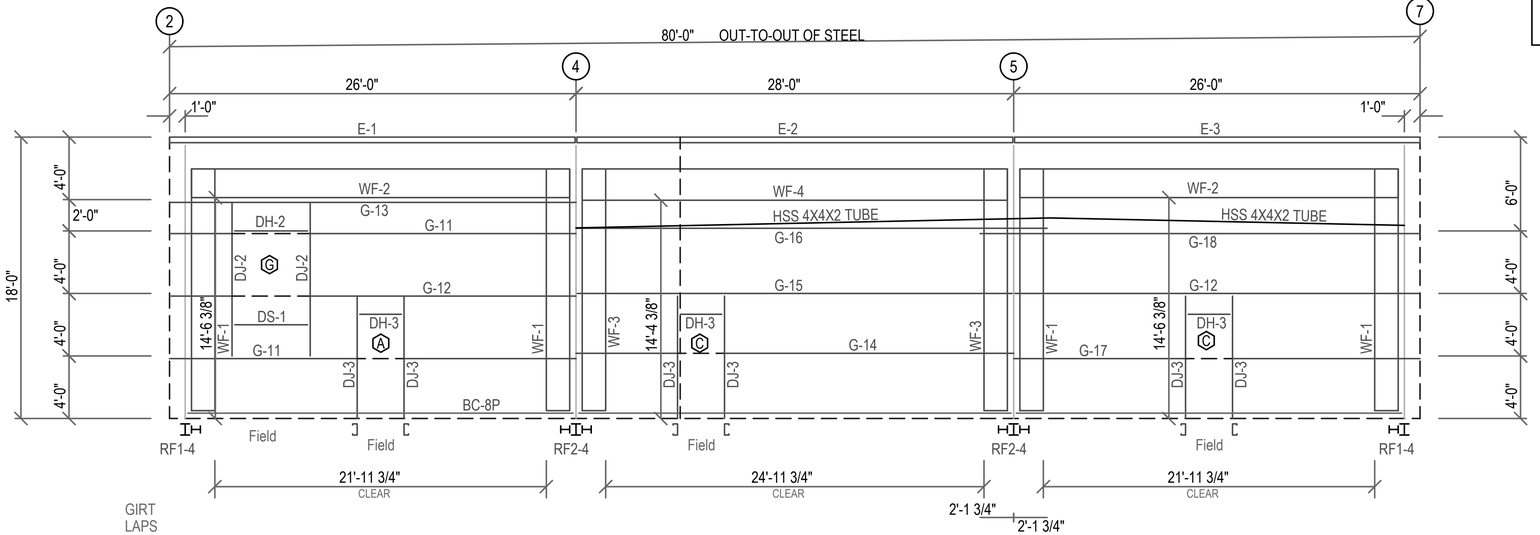
FRAME-OUT SCHEDULE		
CALL-OUT	DESCRIPTION	ROUGH OPENING
C	3'-0" X 6'-8" DOOR (BY OTHERS)	(VERIFY)
G	60" X 72" FRAMED OPENING	(VERIFY)

BOLT TABLE
FRAME LINE E

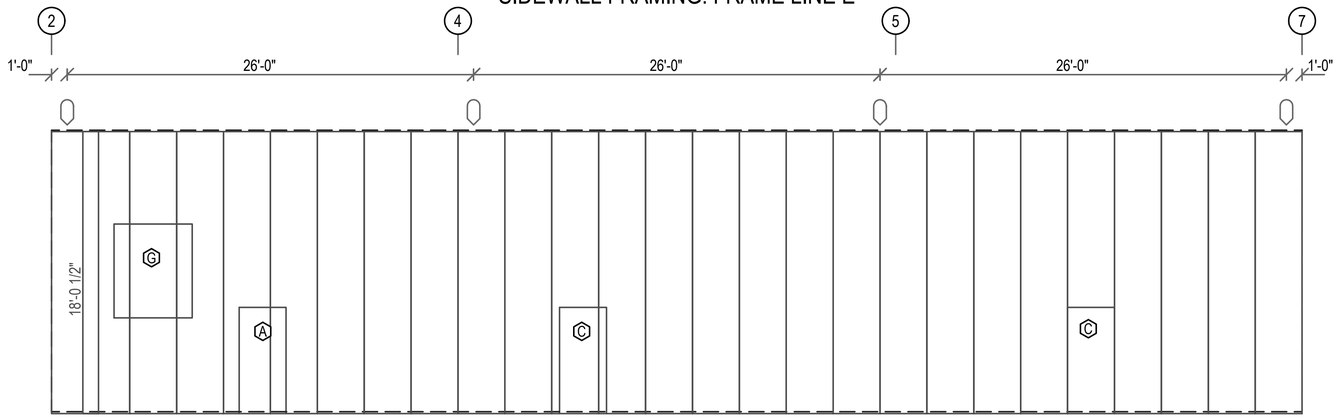
LOCATION	QUAN	TYPE	DIA	LENGTH
WF-1 - WF-2	8	A325	3/4"	2 1/2"
WF-1 - RF1-4	12	A325	5/8"	1 3/4"
WF-1 - RF2-4	12	A325	5/8"	1 3/4"
WF-3 - WF-4	8	A325	3/4"	2 1/2"
WF-3 - RF2-4	12	A325	5/8"	1 3/4"

MEMBER TABLE
FRAME LINE E

MARK	PART
WF-1	W1864030
WF-2	W2284030
WF-3	W1864030
WF-4	W2484030
DJ-2	C83516
DJ-3	C83516
DH-2	C82516
DH-3	C82516
DS-1	C82516
E-1	08432DU1
E-2	08532DU1
E-3	08432DU1
G-11	Z82516
G-12	C83514
G-13	Z82512
G-14	Z82516
G-15	C83514
G-16	Z82516
G-17	Z82516
G-18	Z82516

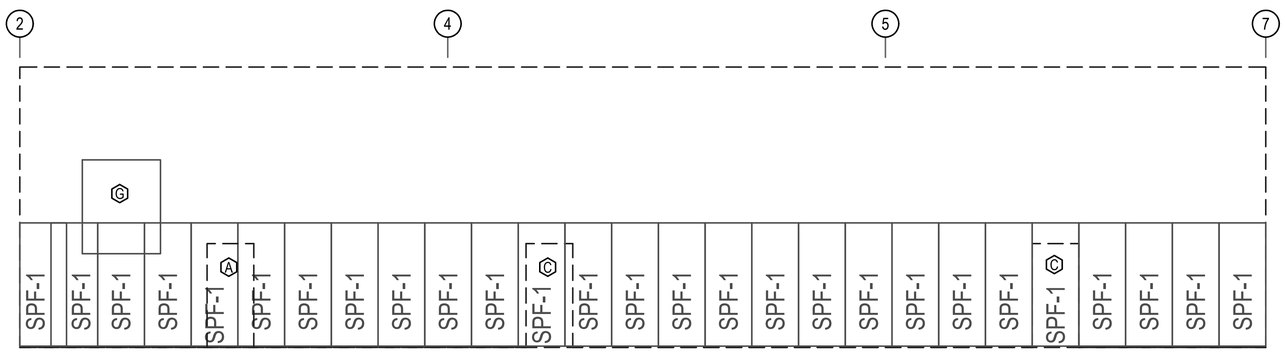


SIDEWALL FRAMING: FRAME LINE E



SIDEWALL SHEETING: FRAME LINE E

PANELS: 26 Ga. RL



SIDEWALL LINER SHEETING: FRAME LINE E

PANELS: 29 Ga. RL

4

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ORDER #: 7878201

CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.–NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.–NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

SIDEWALL ELEVATION

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

5 May 2026
PRINCIPAL ENGINEER DATE

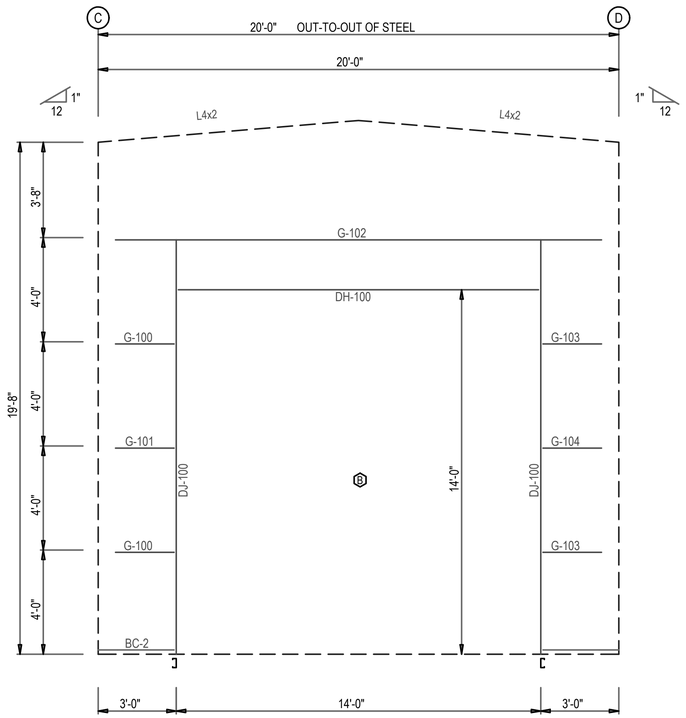
5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
March 27, 2026	SHEET 56 OF 151	DWG. NO. 2025-D-010

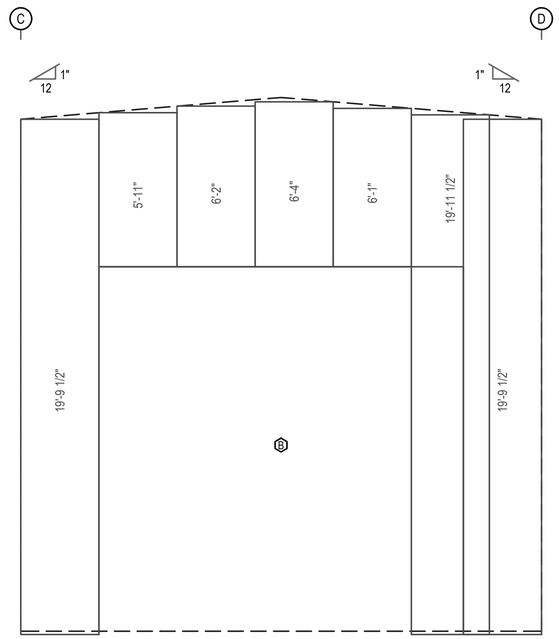
FOR REFERENCE ONLY

FRAME-OUT SCHEDULE		
CALL-OUT	DESCRIPTION	ROUGH OPENING
B	14'-0" X 14'-0" OVHD DOOR	14'-0" X 14'-0"

MEMBER TABLE FRAME LINE 1	
MARK	PART
BC-2	U8216
DJ-100	C83516
DH-100	C82516
G-100	Z82516
G-101	C82516
G-102	Z82512
G-103	Z82516
G-104	C82516

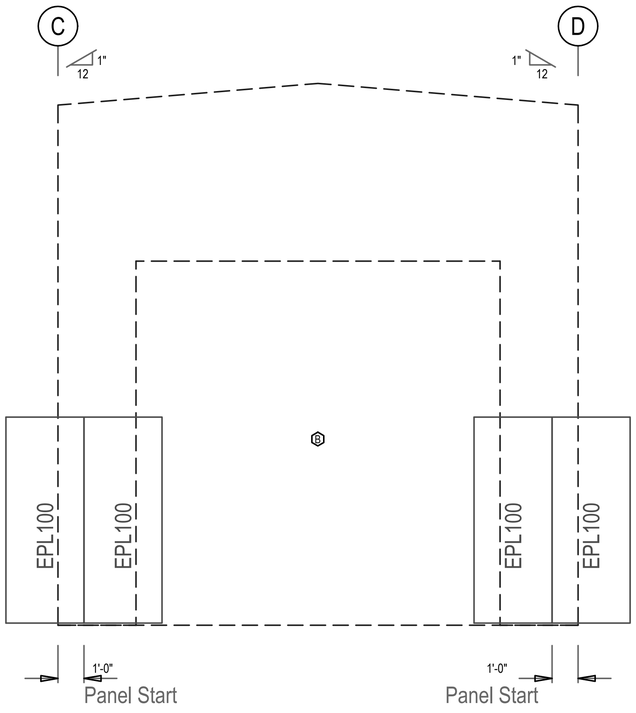


ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING: FRAME LINE 1

PANELS: 26 Ga. RL -



ENDWALL LINER SHEETING: FRAME LINE 1

PANELS: 29 Ga. RL -

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ORDER #: 7878201

CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.–NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.–NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

ENDWALL ELEVATION

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

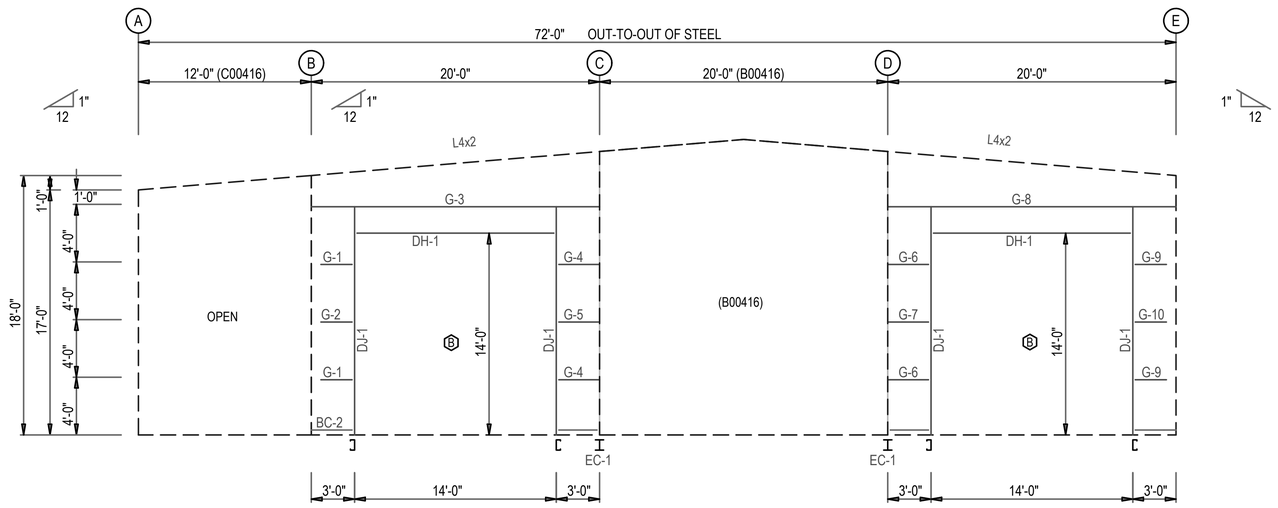
SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
March 27, 2026	SHEET 57 OF 151 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

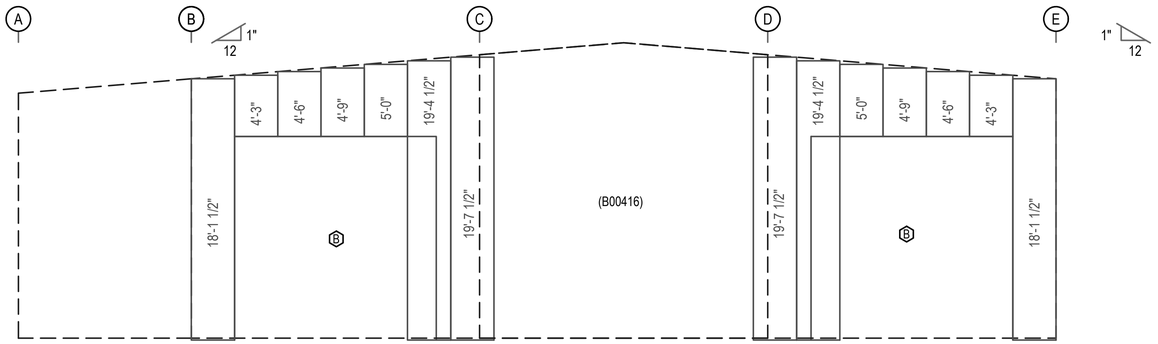
FRAME-OUT SCHEDULE		
CALL-OUT	DESCRIPTION	ROUGH OPENING
B	14'-0" X 14'-0" OVHD DOOR	14'-0" X 14'-0"

BOLT TABLE FRAME LINE 2				
LOCATION	QUAN	TYPE	DIA	LENGTH
A00416				
Columns/Raf	2	A325	5/8"	1 1/2"

MEMBER TABLE FRAME LINE 2	
MARK	PART
A00416	
BC-2	U8216
EC-1	W8X10
DJ-1	C83516
DH-1	C82516
G-1	Z82516
G-2	C82516
G-3	Z83512
G-4	Z82516
G-5	C82516
G-6	Z82516
G-7	C82516
G-8	Z83512
G-9	Z82516
G-10	C82516

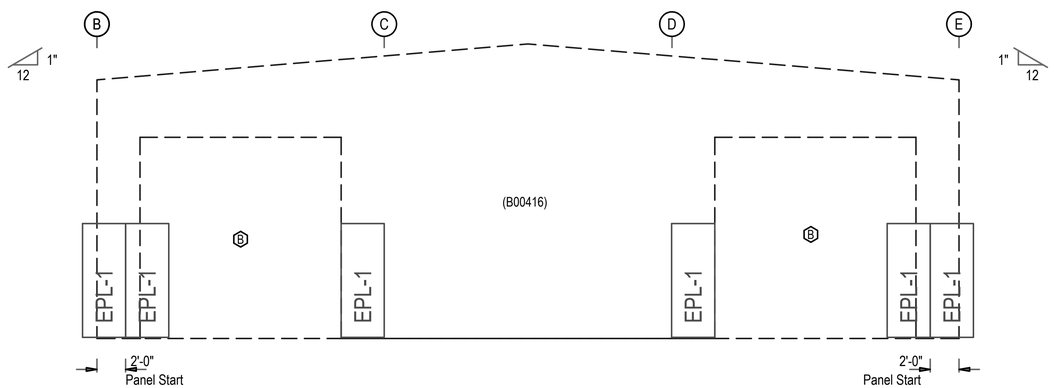


ENDWALL FRAMING: FRAME LINE 2



ENDWALL SHEETING: FRAME LINE 2

PANELS: 26 Ga. RL -



ENDWALL LINER SHEETING: FRAME LINE 2

PANELS: 29 Ga. RL -

DEVELOPED BY:

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ORDER #: 7878201

CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.–NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.–NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

ENDWALL ELEVATION

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

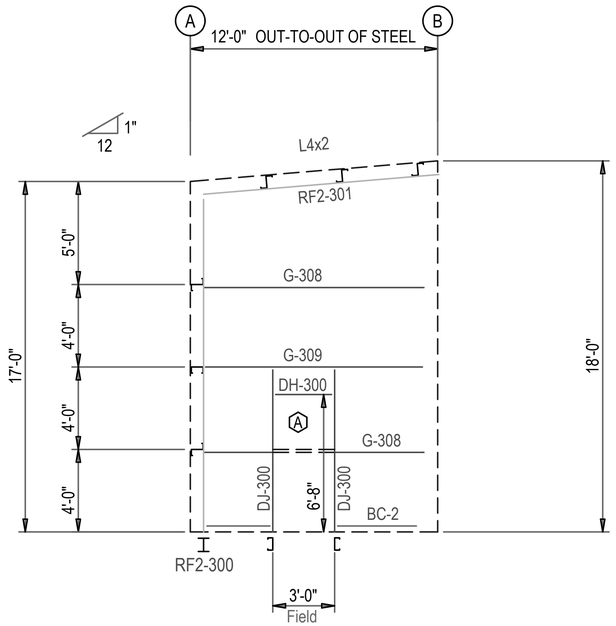
SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

March 27, 2026 | SHEET 58 OF 151 | DWG. NO. 2025-D-010

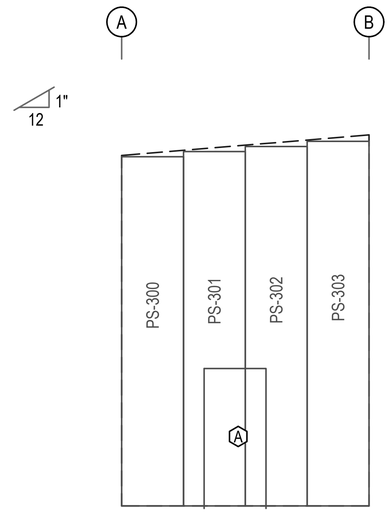
FOR REFERENCE ONLY

FRAME-OUT SCHEDULE		
CALL-OUT	DESCRIPTION	ROUGH OPENING
A	3'-0" X 6'-8" WALK-IN DOOR	(VERIFY)

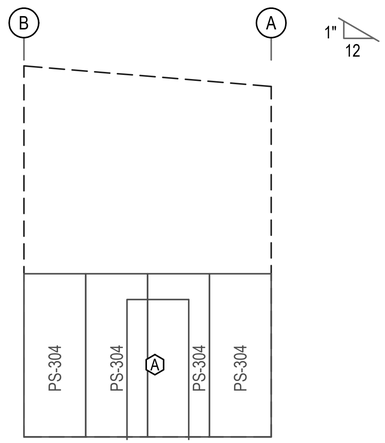
MEMBER TABLE PARTITION 1	
MARK	PART
BC-2	U8216
DJ-300	C83516
DH-300	C82516
G-308	Z82516
G-309	C82516
RF2-300	W10X12
RF2-301	W8X10



PARTITION WALL FRAMING: FRAME LINE 3



PARTITION WALL SHEETING: FRAME LINE 3
PANELS: 26 Ga. RL -



PARTITION WALL LINER SHEETING: FRAME LINE 3
PANELS: 29 Ga. RL -

DEVELOPED BY:

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ORDER #: 7878201

CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.–NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.–NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

ENDWALL ELEVATION

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

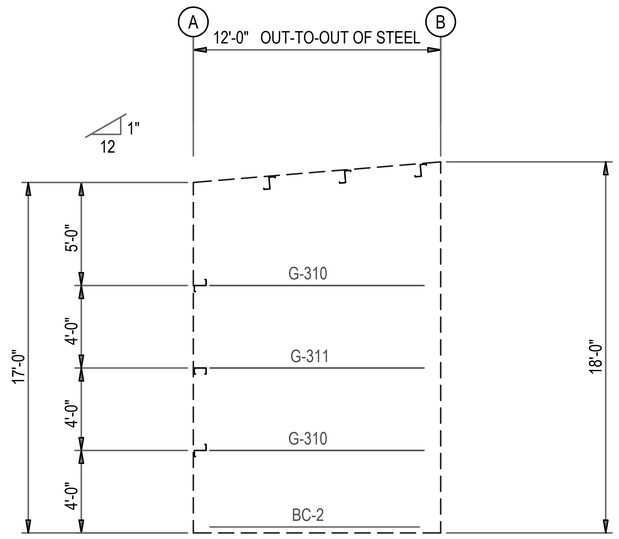
PRINCIPAL ENGINEER — 5 May 2026 — DATE

CITY ENGINEER — 5/7/2026 — DATE

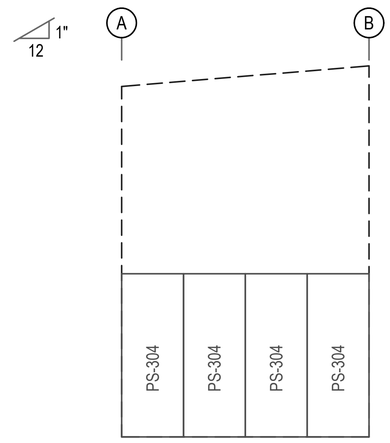
SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
March 27, 2026	SHEET 59 OF 151	DWG. NO. 2025-D-010

FOR REFERENCE ONLY

MEMBER TABLE PARTITION 2	
MARK	PART
BC-2	U8216
G-310	Z82516
G-311	C82516

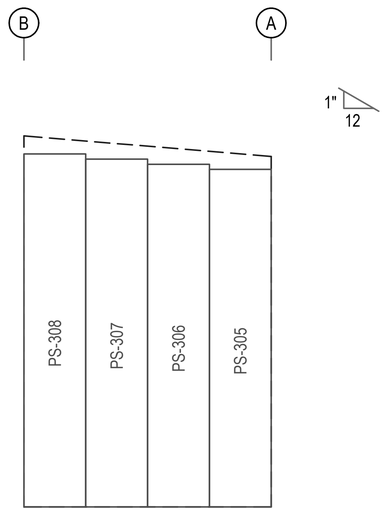


PARTITION WALL FRAMING: FRAME LINE 5



PARTITION WALL LINER SHEETING: FRAME LINE 5

PANELS: 29 Ga. RL -



PARTITION WALL SHEETING: FRAME LINE 5

PANELS: 29 Ga. RL -

DEVELOPED BY:

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1440 18TH AVENUE SW
DYERSVILLE, IA 52040
P 563.875.6113
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WWW.CLEARSPAN.COM

ORDER #: 7878201

CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.--NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
3	BUILDING SITE CLASS UPDATES DWG.--NO.C2			8/7
2	UPDATED TITLE BLOCK AND BASE PLATE			5/21
1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

ENDWALL ELEVATION

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

PRINCIPAL ENGINEER — DATE: 5 May 2026

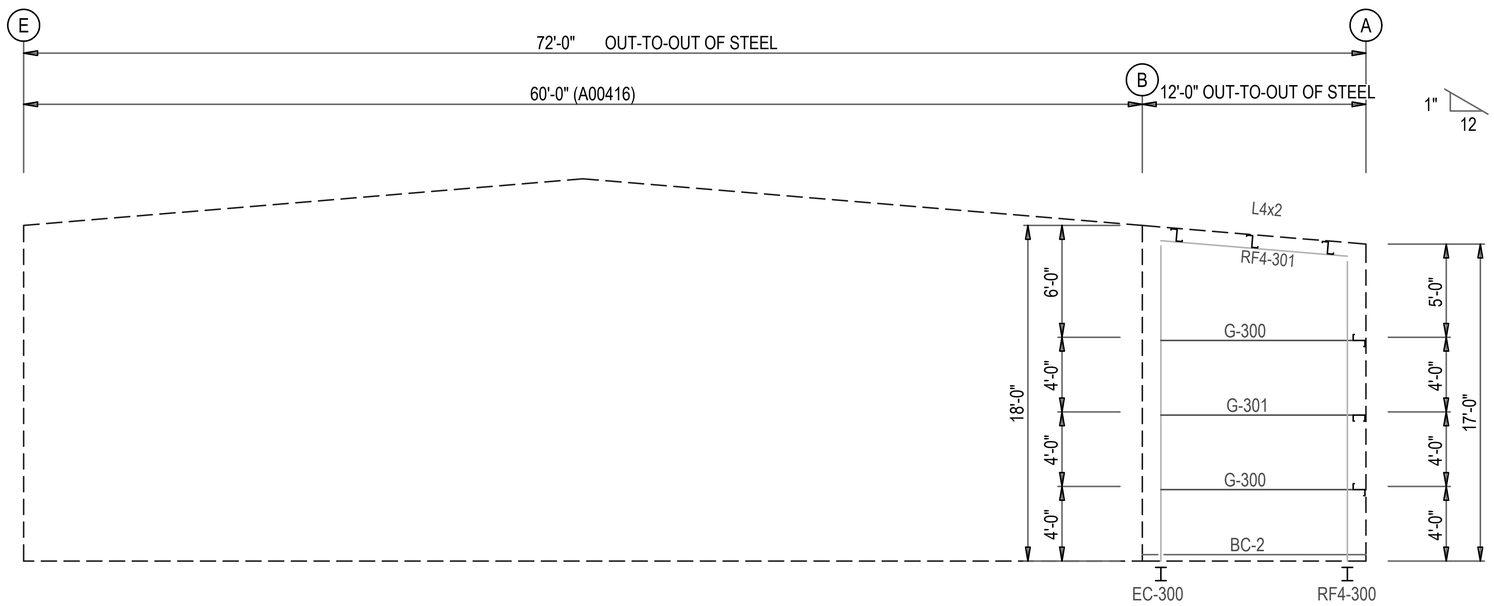
CITY ENGINEER — DATE: 5/7/2026

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
March 27, 2026	SHEET 60 OF 151	DWG. NO. 2025-D-010

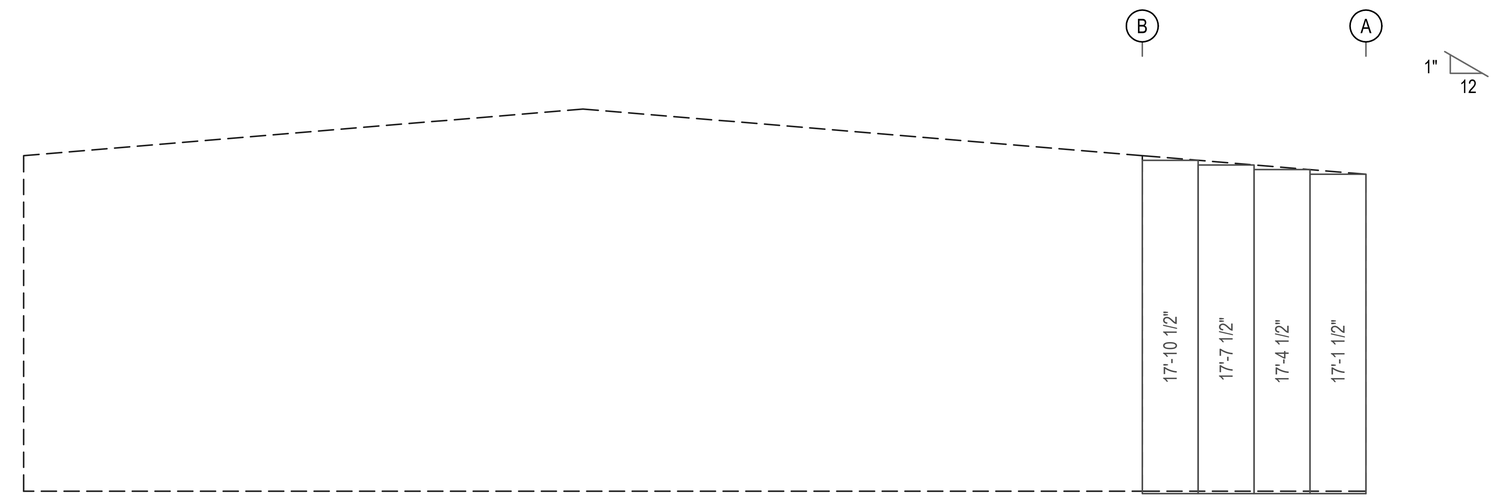
FOR REFERENCE ONLY

BOLT TABLE FRAME LINE 6				
LOCATION	QUAN	TYPE	DIA	LENGTH
Cor_Column/Raf	2	A325	5/8"	1 1/2"

MEMBER TABLE FRAME LINE 6	
MARK	PART
BC-2	U8216
EC-300	W8X10
G-300	Z82516
G-301	C82516
RF4-300	W10X12
RF4-301	W8X10

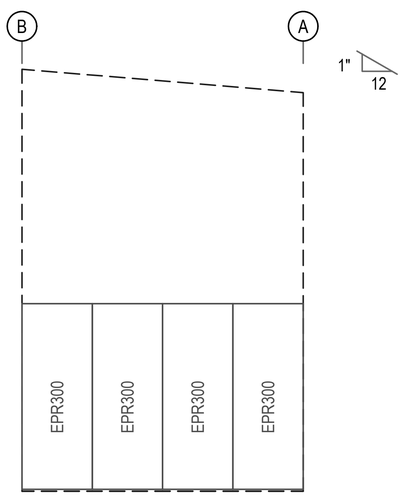


ENDWALL FRAMING: FRAME LINE 6



ENDWALL SHEETING: FRAME LINE 6

PANELS: 26 Ga. RL -



ENDWALL LINER SHEETING: FRAME LINE 6

PANELS: 29 Ga. RL -

DEVELOPED BY:

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DYERSVILLE, IA 52040
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ORDER #: 7878201

CUSTOMER #: 9108797

PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
5	SEISMIC DESIGN CAT. UPDATES DWG.--NO.C2			2/3
4	UPDATED PER CHANGER ORDER #3			1/23
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1	BUILDING "A" BASE PLATE UPDATES			3/7

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

ENDWALL ELEVATION

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

PRINCIPAL ENGINEER — 5 May 2026 — DATE

CITY ENGINEER — 5/7/2026 — DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
March 27, 2026	SHEET 61 OF 151	DWG. NO. 2025-D-010

FOR REFERENCE ONLY

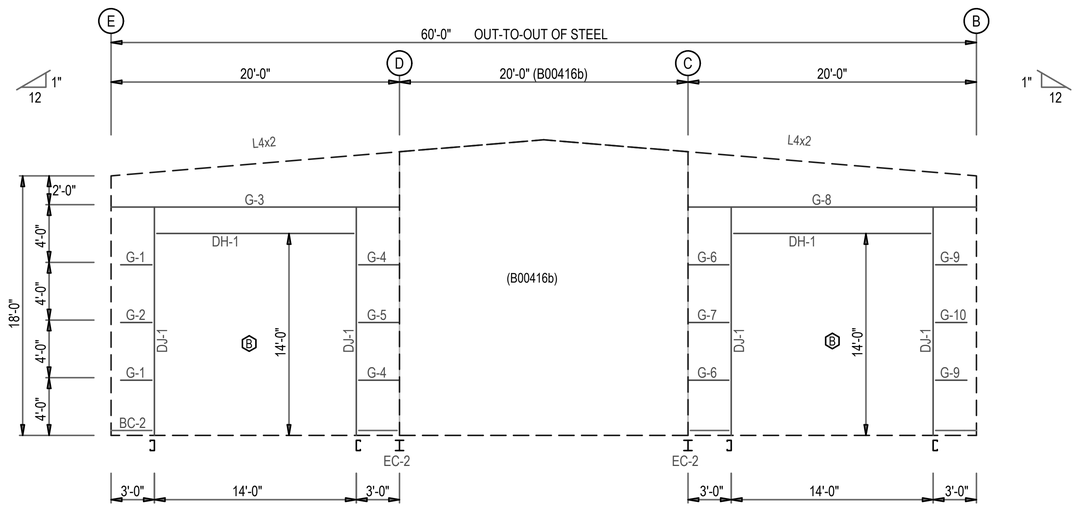
FRAME-OUT SCHEDULE		
CALL-OUT	DESCRIPTION	ROUGH OPENING
B	14'-0" X 14'-0" OVHD DOOR	14'-0" X 14'-0"

BOLT TABLE
FRAME LINE 7

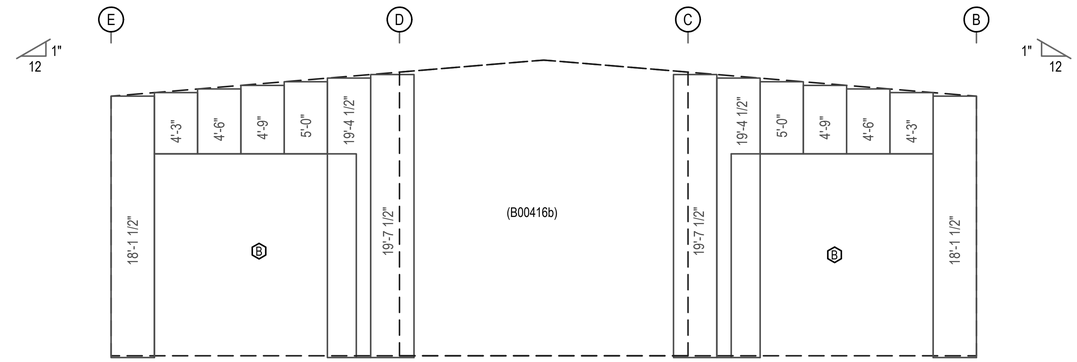
LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	2	A325	5/8"	1 1/2"

MEMBER TABLE
FRAME LINE 7

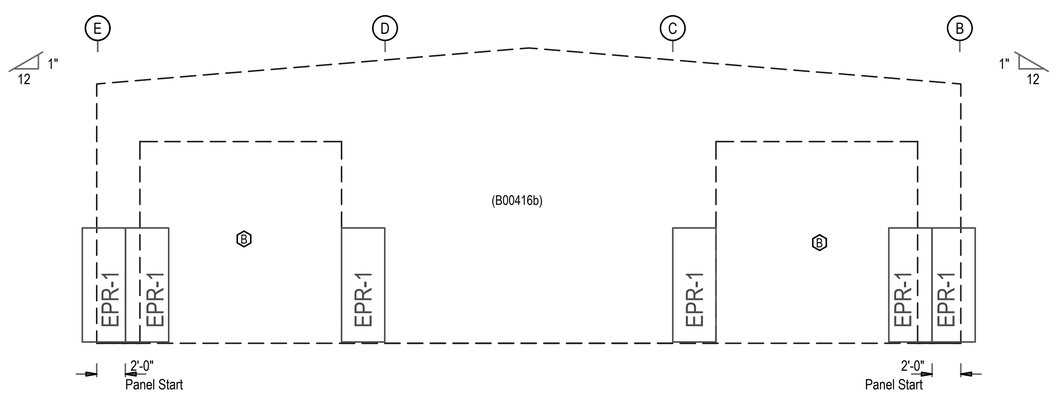
MARK	PART
A00416	
BC-2	U8216
EC-1	W8X10
DJ-1	C83516
DH-1	C82516
G-1	Z82516
G-2	C82516
G-3	Z83512
G-4	Z82516
G-5	C82516
G-6	Z82516
G-7	C82516
G-8	Z83512
G-9	Z82516
G-10	C82516



ENDWALL FRAMING: FRAME LINE 7



ENDWALL SHEETING: FRAME LINE 7



ENDWALL LINER SHEETING: FRAME LINE 7

PANELS: 29 Ga. RL -

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ORDER #: 7878201

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PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

PARTITION WALL ELEVATION

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

5 May 2026
PRINCIPAL ENGINEER DATE

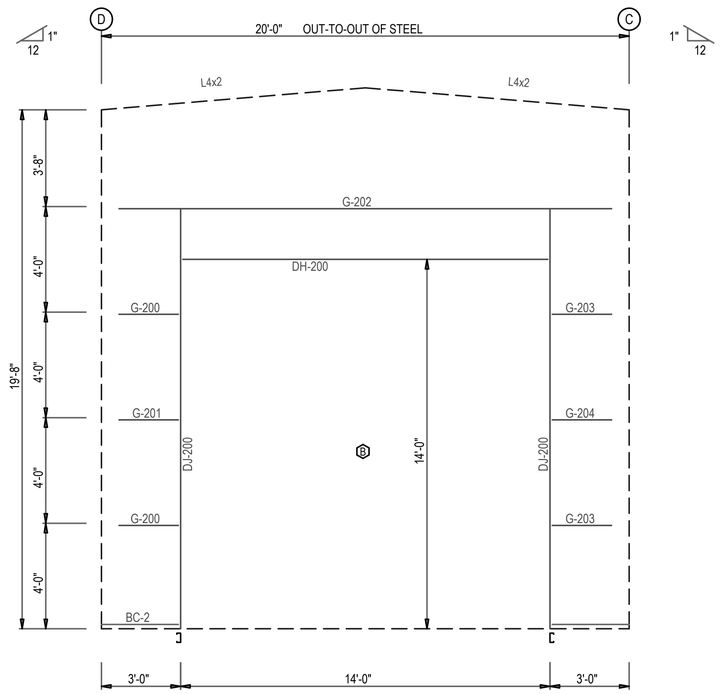
5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
March 27, 2026	SHEET 62 OF 151	DWG. NO. 2025-D-010

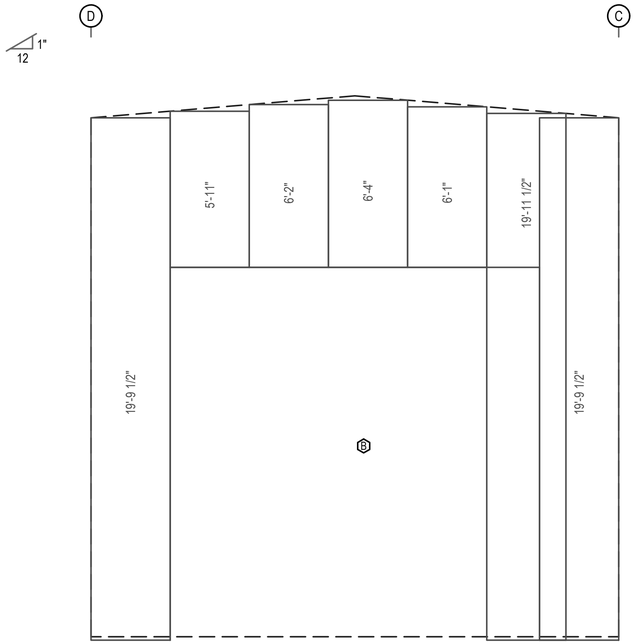
FOR REFERENCE ONLY

FRAME-OUT SCHEDULE		
CALL-OUT	DESCRIPTION	ROUGH OPENING
B	14'-0" X 14'-0" OVHD DOOR	14'-0" X 14'-0"

MEMBER TABLE FRAME LINE 8	
MARK	PART
BC-2	U8216
DJ-200	C83516
DH-200	C82516
G-200	Z82516
G-201	C82516
G-202	Z82512
G-203	Z82516
G-204	C82516

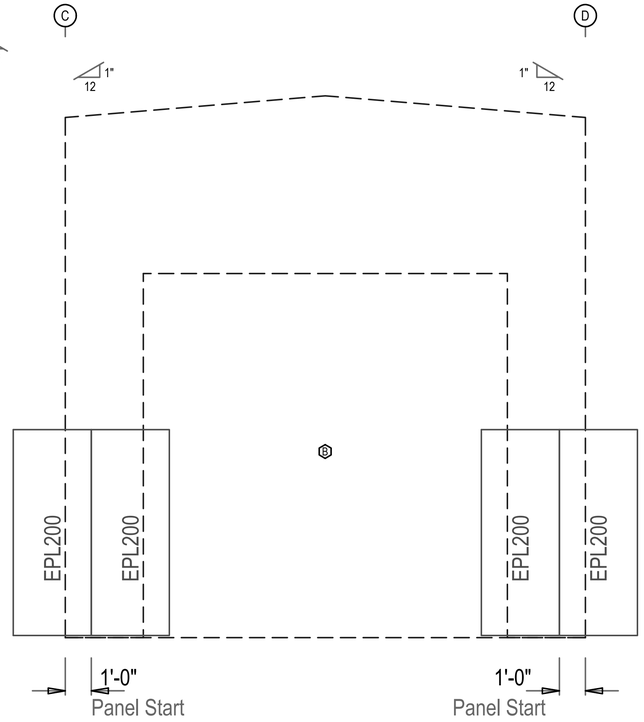


ENDWALL FRAMING: FRAME LINE 8



ENDWALL SHEETING: FRAME LINE 8

PANELS: 26 Ga. RL -



ENDWALL LINER SHEETING: FRAME LINE 8

PANELS: 29 Ga. RL -

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ORDER #: 7878201

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PROFESSIONAL SEAL

REV.	DESCRIPTION	CK'D	APP	DATE
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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

PARTITION WALL ELEVATION

DRN. BY: LJO	DES. BY: XXX	CK'D. BY: XXX

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
March 27, 2026	SHEET 63 OF 151	DWG. NO. 2025-D-010

FOR REFERENCE ONLY

GENERAL NOTES:

1. THE ENTIRE BUILDING SHALL BE PROTECTED WITH A FIRE ALARM SYSTEM INSTALLED IN ACCORDANCE WITH THE 2022 EDITION OF CBC, THE 2022 EDITION OF THE CFC, 2022 EDITION OF NFPA 72, AND THE CITY OF VENTURA FIRE DEPARTMENT STANDARDS.
2. ALL NEW FIRE ALARM SYSTEM EQUIPMENT SHALL BE U.L. APPROVED.
3. ALL CONDUIT TO BE 1" UNLESS OTHERWISE SPECIFIED.
4. ALL WIRE WILL BE 18 AWG THHN, 14 AWG THHN, OR 12 AWG THHN, 600V, AND WILL BE RUN IN CONDUIT.
5. VERTICAL SUPPORT FOR CONDUCTORS IN A RACEWAY WILL BE PROVIDED.
6. ALL ELECTRICAL WORK ABOVE 24VDC WILL BE DONE BY ELECTRICAL CONTRACTOR.
7. WIRING SHALL NOT BE LOOPED THROUGH DEVICES; WIRE MUST BE CUT FOR IN AND OUT.
8. ALL JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. AND SHALL HAVE THEIR COVERS PAINTED RED.
9. OUTDOOR CONTROL VALVES SHALL BE PROVIDED WITH TAMPER SWITCHES.
10. ALL EXTERIOR MOUNTED EQUIPMENT SHALL BE LISTED AS WEATHERPROOF INCLUDING BUT NOT LIMITED TO, VISUAL, AUDIO, SUPERVISORY AND INITIATING DEVICES. THEY SHALL BE NOTED ON THE PRINT WITH "WP" DESIGNATION FOR WEATHERPROOF. THEIR ELECTRICAL TERMINATION COUNTER PARTS SHALL ALSO BE LISTED AS SUCH AND ALSO NOTED IN THE JOB SPECIFICATIONS.
11. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION.
12. A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.
13. FIRE ALARM DRAWINGS ARE SCHEMATIC IN NATURE ONLY. CONTRACTOR TO ROUTE CONDUIT AS FIELD CONDITIONS ALLOW.
14. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL FIELD CHANGES WITH COLLINGS & ASSOCIATES. WIRING AND SYSTEM SOFTWARE ARE DIRECTLY AFFECTED BY THE CONDUIT RUNS SHOWN. IF CONDITIONS REQUIRE CHANGES TO THE CONDUIT RUNS INDICATED ON THESE PRINTS, PLEASE CONTACT COLLINGS & ASSOCIATES TO COORDINATE THE CHANGES. PROBLEMS CAUSED BY UNDOCUMENTED OR UNCOORDINATED CHANGES WILL NOT BE THE RESPONSIBILITY OF COLLINGS & ASSOCIATES.
15. ALL JUNCTION BOXES TO BE PAINTED RED.
16. THE CONTRACTOR SHALL BE A FACTORY-AUTHORIZED REPRESENTATIVE IN ORDER TO PERFORM ANY WORK ON THE FIRE ALARM SYSTEM. PROVIDE A RECORD COPY OF THE SITE SPECIFIC SOFTWARE AT THE TIME OF FINAL ACCEPTANCE TESTING IN ACCORDANCE WITH NFPA 72. PROVIDE SECURITY PASSWORD/CODE TO ALLOW AUTHORIZED TECHNICIANS TO MODIFY THE SOFTWARE DATABASE. A FACTORY DEFAULT PASSWORD/CODE IS ACCEPTABLE. ALL CABINET LOCK KEY TYPES SHALL BE "T45" AND SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT.

GENERAL NOTES (CONT.):

17. LOCK ON BREAKER AND A DEDICATED EMERGENCY PANEL AT THE SERVICE ENTRANCE FOR ALL FIRE PROTECTION SERVICE POWER SHALL BE PROVIDED. ELECTRICAL POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT. THE CIRCUIT AND CONNECTORS SHALL BE MECHANICALLY PROTECTED. CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL HAVE A LISTED BREAKER LOCKING DEVICE, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL". THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL PANEL.
18. SELECTED LICENSED C10 CONTRACTOR SHALL PROVIDE A UL LISTED CENTRAL MONITORING STATION.
19. CONDUIT OF THE FIRE ALARM SYSTEM MAY JOIN IN THE SAME LOCATION AS THE OPTIC FIBER CONDUIT MAIN.

APPLICABLE CODES:

- 2022 CALIFORNIA FIRE CODE
- 2022 CALIFORNIA BUILDING CODE
- 2022 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE
- 2022 NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- 2020 NFPA 70 NATIONAL ELECTRICAL CODE

ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR
APN	ASSESSOR'S PARCEL NUMBER
CKT	CIRCUIT
FA	FIRE ALARM
FACU	FIRE ALARM CONTROL UNIT
FS	FLOW SWITCH
ITM	INSPECTION, TESTING, AND MAINTENANCE
NAC	NOTIFICATION APPLIANCE CIRCUIT
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
OS&Y	OUTSIDE SCREW & YOKE
SLC	SIGNALING LINE CIRCUIT
TS	TAMPER SWITCH
TYP	TYPICAL

PROJECT INFORMATION:

ADDRESS:	2269 ALESSANDRO DRIVE VENTURA, CA 93001
OCCUPANCY:	B, R-2, S-2
CONSTRUCTION TYPE:	IIB
STORIES:	1
BUILDING HEIGHT:	19'-8" TO TOP OF RIDGE
BUILDING AREA:	APPROX. 8,780 SF

PATHWAY SURVIVABILITY LEVEL 1

SCOPE OF WORK:

PROVIDE NEW FIRE ALARM SYSTEM WITH OCCUPANT NOTIFICATION THROUGHOUT THE NEW CITY OF VENTURA FIRE STATION 7. CABLE AND JUNCTION BOXES IN MODULAR BUILDINGS TO BE PROVIDED BY MODULAR BUILDING VENDOR DURING BUILD OUT.

OPERATIONAL MATRIX

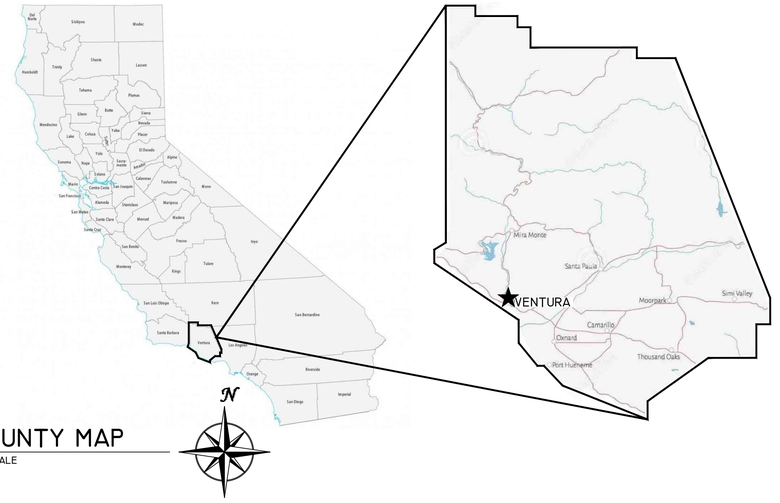
SYSTEM OUTPUTS

		A	B	C	D	E	F	G	H	I	J	K	L	O	N	M	P	Q	R	S
		ACTIVATE BUILDING NOTIFICATION DEVICES					FIRE ALARM CONTROL PANEL ALARM	FIRE ALARM CONTROL PANEL TROUBLE	FIRE ALARM CONTROL PANEL SUPERVISORY		OFF SITE ALARM	OFF SITE TROUBLE	OFF SITE SUPERVISORY		ACTIVATE BUILDING SPRINKLER BELL					
SYSTEM INPUTS	1	CONTROL EQUIPMENT SMOKE DETECTION	●					●				●									
	2	AREA SMOKE DETECTOR	●					●				●									
	3	SPRINKLER WATERFLOW SWITCH	●					●				●				●					
	4	SPRINKLER CONTROL VALVE TAMPER SWITCH							●				●								
	5																				
	6																				
	7																				
	8																				
	9																				
	10																				
	11	FIRE ALARM AC POWER FAILURE							●				●								
	12	FIRE ALARM SYSTEM LOW BATTERY							●				●								
	13																				
		SIGNALING LINE CIRCUIT (CLASS B) SURVIVABILITY LEVEL 1																			
	14	OPEN WIRE							●				●								
	15	GROUNDED WIRE							XR				XR								
	16	SHORTED WIRE	●						●				●								
	17																				
		NOTIFICATION CIRCUIT (CLASS B) SURVIVABILITY LEVEL 1																			
	18	OPEN WIRE							●				●								
	19	GROUNDED WIRE							XR				XR								
	20	SHORTED WIRE							●				●								
			A	B	C	D	E	F	G	H	I	J	K	L	M	N	M	P	Q	R	S

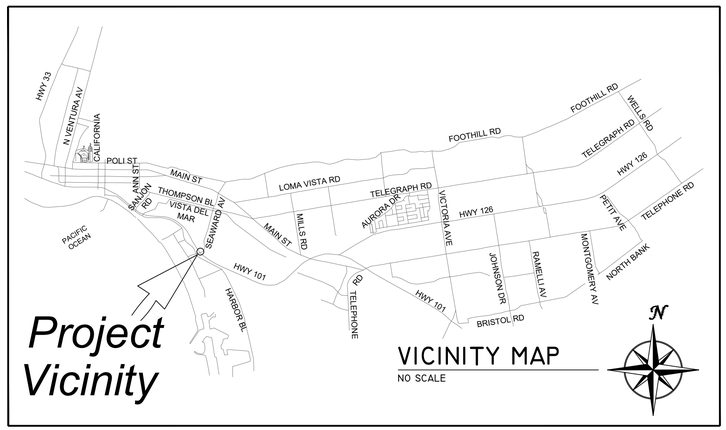
XR = ALARM RECEIPT CAPABILITY DURING ABNORMAL CONDITIONS REQUIRED FOR GROUNDED WIRES

CABLE AND WIRE LEGEND

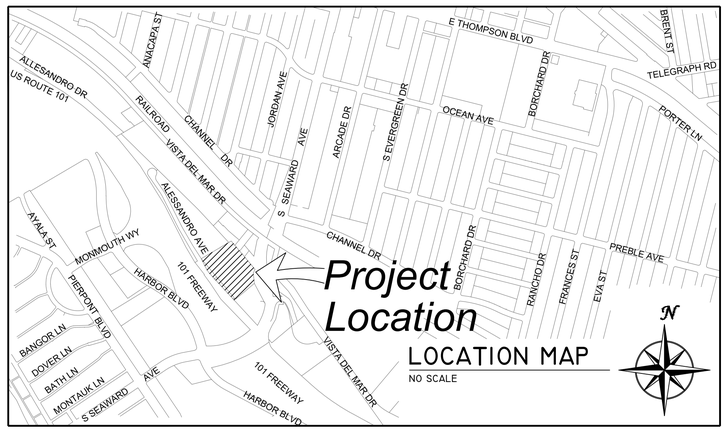
LABEL	PART NO	APPLICATION	RESISTANCE MFT	AWG	DESCRIPTION
A	16/2 FPLR	SLC	4.89	16	2 COND. SOLID COPPER FPLR ADDRESSABLE
P	14/2 FPLP/R	AUX	3.07	14	2 COND. SOLID COPPER FPLP/R UNSHIELDED
V	14/2 FPLP/R	NAC	3.07	14	2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
Z	18/2 FPLP/R	IDC	7.77	18	2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED



COUNTY MAP
NO SCALE



VICINITY MAP
NO SCALE



LOCATION MAP
NO SCALE

COLLINGS & ASSOCIATES
FIRE PROTECTION ENGINEERING
260 MAPLE COURT, 241 VENTURA, CA 93003
PHONE: (805)658-0003 FAX: (805)658-0044
www.collingsandassociates.com

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
FIRE ALARM GENERAL NOTES

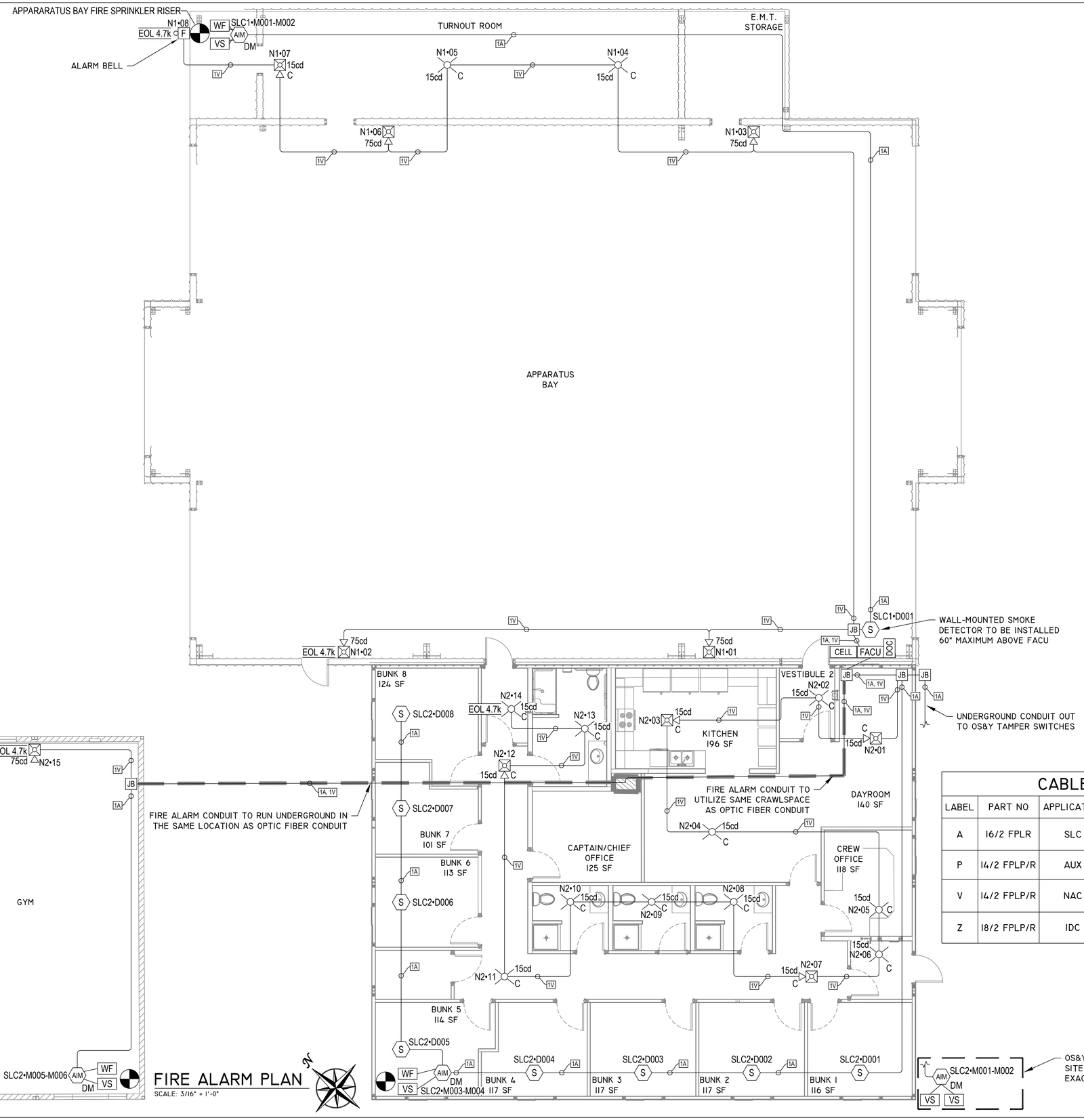
DRN. BY: BF	DES. BY: BF	CK'D. BY: AY

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

LICENSED PROFESSIONAL ENGINEER DAVID EDELMAN No. 16749 EXPIRES 6/30/2026 FIRE PROTECTION STATE OF CALIFORNIA

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
October 1, 2025	SHEET 64 OF 151 DWG. NO. 2025-D-010



FIRE ALARM PLAN

SCALE: 3/16" = 1'-0"

DEVICE LEGEND

SYMBOL	QTY.	MANUFACTURER	PART NO	DESCRIPTION	CSFM
FACU	1	NOTIFIER	NI6E	FIRE ALARM CONTROL PANEL	7165-0028:0516
	1	NOTIFIER	PMB-AUX	ADDRESSABLE POWER SUPPLY/BATTERY CHARGER	7165-0028:0516
	2	NOTIFIER	SLM-318	SIGNALING LINE MODULE PROVIDES A SIGNALING LINE CIRCUIT OF 159 ADDRESSABLE POINTS.	7165-0028:0516
CELL	1	HONEYWELL	HON-CGW-MBB	CLSS GATEWAY	7300-1637:0504
	1	HONEYWELL	CCM-VZ-HON	LTE CELLULAR COMMUNICATION MODULE	7300-1637:0504
DOC	1	SPACE AGE ELECTRONICS	SSU00689	FIRE ALARM DOCUMENT BOX	7300-0553:0110
AIM DM	3	NOTIFIER	FDM-1	ADDRESSABLE DUAL MONITOR MODULE W/ FLASHSCAN, 2 CLASS B	7300-0028:0219
S	9	NOTIFIER	FSP-951 W/B300-6	ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR. FLASHSCAN ONLY.	7272-0028:0503 7300-1653:0109
C	11	SYSTEM SENSOR	SCWLED	STROBE, CEILING, WHITE	7300-1653:0525
	5	SYSTEM SENSOR	P2RLED	HORN STROBE, RED	7135-1653:0526
C	5	SYSTEM SENSOR	PC2WLED	HORN STROBE, CEILING, WHITE	7135-1653:0526
JB	JUNCTION BOX				
WF	WATERFLOW SWITCH (PROVIDED BY C-16 CONTRACTOR)				
VS	TAMPER SWITCH (PROVIDED BY C-16 CONTRACTOR)				
F	ALARM BELL (PROVIDED BY C-16 CONTRACTOR)				

CABLE AND WIRE LEGEND

LABEL	PART NO	APPLICATION	RESISTANCE MFT	AWG	DESCRIPTION
A	16/2 FPLR	SLC	4.89	16	2 COND. SOLID COPPER FPLR ADDRESSABLE
P	14/2 FPLP/R	AUX	3.07	14	2 COND. SOLID COPPER FPLP/R UNSHIELDED
V	14/2 FPLP/R	NAC	3.07	14	2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
Z	18/2 FPLP/R	IDC	7.77	18	2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED

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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
FIRE ALARM PLAN

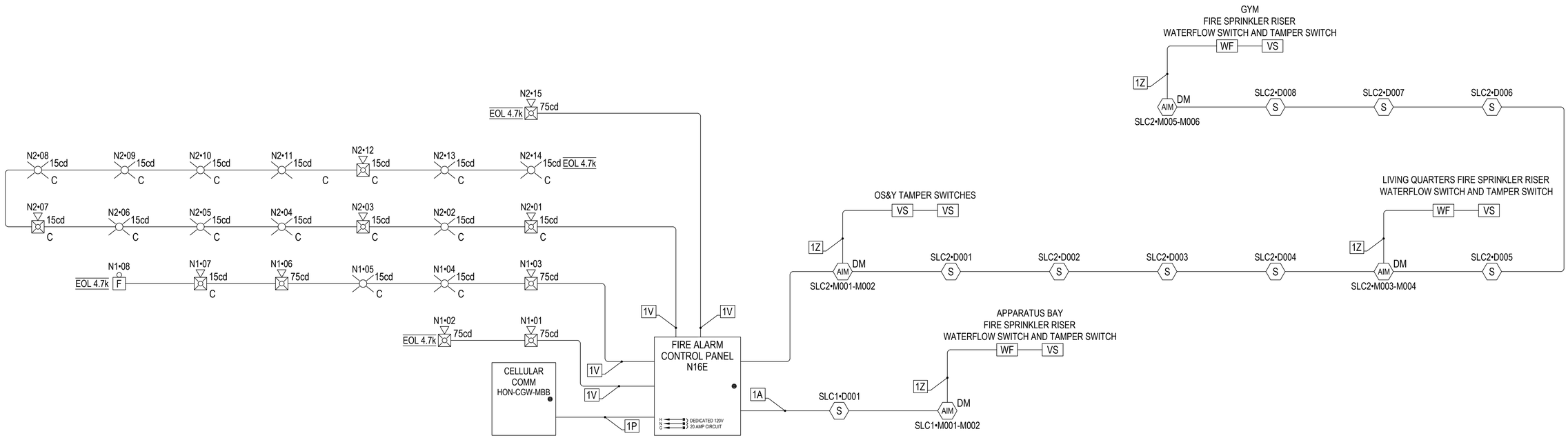
DRN. BY: BF	DES. BY: BF	CK'D. BY: AY

PRINCIPAL ENGINEER — 5 May 2026 — DATE

CITY ENGINEER — 5/7/2026 — DATE

LICENSED PROFESSIONAL ENGINEER — FIRE PROTECTION — STATE OF CALIFORNIA — EXPIRES 6/30/2026

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
October 1, 2025	SHEET 65 OF 151 — DWG. NO. 2025-D-010



RISER DIAGRAM

NOT TO SCALE

CABLE AND WIRE LEGEND					
LABEL	PART NO	APPLICATION	RESISTANCE MFT	AWG	DESCRIPTION
A	16/2 FPLR	SLC	4.89	16	2 COND. SOLID COPPER FPLR ADDRESSABLE
P	14/2 FPLP/R	AUX	3.07	14	2 COND. SOLID COPPER FPLP/R UNSHIELDED
V	14/2 FPLP/R	NAC	3.07	14	2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
Z	18/2 FPLP/R	IDC	7.77	18	2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED

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www.collingsandassociates.com

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
RISER DIAGRAM

DRN. BY: BF	DES. BY: BF	CK'D. BY: AY

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

LICENSED PROFESSIONAL FIRE PROTECTION ENGINEER
STATE OF CALIFORNIA
FP-14442
EXPIRES 6/30/2026

SPEC. NUMBER 2025-010 PROJECT NUMBER FA11-1061

October 1, 2025 SHEET 66 OF 151 DWG. NO. 2025-D-010

PANEL (N16E) BATTERY CALCULATION

(SECONDARY POWER SOURCE REQUIREMENTS)

								STANDBY CURRENT		SECONDARY ALARM CURRENT	
					QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
PANEL COMPONENTS					1	N16E	INTELLIGENT FIRE ALARM PANEL WITH ONE SLC LOOP, 10" TOUCHSCREEN DISPLAY, 4 NACS, AND POWER SUPPLY IN A BLACK ENCLOSURE.	0	0	0	0
					1	CPU-N16LD	N16X WITH DISPLAY. INTELLIGENT FIRE ALARM WITH ONE SLC LOOP, 10" TOUCHSCREEN DISPLAY, 4 NACS, AND POWER SUPPLY; CHASSIS MOUNTED FOR USE IN A CAB-5 SERIES CABINET.	0.269	0.269	0.279	0.279
					1	PMB-AUX	ADDRESSABLE POWER SUPPLY/BATTERY CHARGER	0.096	0.096	0.11	0.11
					2	SLM-318	SIGNALING LINE MODULE PROVIDES A SIGNALING LINE CIRCUIT OF 159 ADDRESSABLE POINTS. ADD SLM-318 UNITS TO EXPAND SLC CAPABILITY. SEE DN-62115.	0.159	0.318	0.276	0.5520
CIRCUIT	**MAX CARD AMPS**	**USED CARD AMPS**	**SPARE CARD AMPS**	**SYMBOL**	**QTY**	**PART NO**	**DESCRIPTION**	**CURRENT DRAW (A)**	**TOTAL (A)**	**CURRENT DRAW (A)**	**TOTAL (A)**
AUX1	6	0.879500	5.120500	CELL	1	HON-CGW-MBB	CLSS GATEWAY WITH THE ENCLOSURE	0	0	0	0
N1					4	P2RLED	2-WIRE, HORN STROBE, RED 75CD	0	0	0.087	0.348
				C	1	PC2WLED	2-WIRE, HORN STROBE, CEILING, WHITE 15CD	0	0	0.035	0.035
				C	2	SCWLED	STROBE, CEILING, WHITE 15CD	0	0	0.018	0.036
				F	1	PROVIDED BY C-16 CONTRACTOR	ALARM BELL	0	0	0.0535	0.0535
N2					1	P2RLED	2-WIRE, HORN STROBE, RED 75CD	0	0	0.087	0.087
				C	4	PC2WLED	2-WIRE, HORN STROBE, CEILING, WHITE 15CD	0	0	0.035	0.14
				C	10	SCWLED	STROBE, CEILING, WHITE 15CD	0	0	0.018	0.18
L2	N/A	0.055200		AIM DM	3	FDM-1	ADDRESSABLE DUAL MONITOR MODULE W/ FLASHSCAN, 2 CLASS B	0.00075	0.00225	0.0064	0.0192
				S	8	FSP-951 W/B300-6	ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR. FLASHSCAN ONLY.	0.0002	0.0016	0.0045	0.036
L1	N/A	0.010900		AIM DM	1	FDM-1	ADDRESSABLE DUAL MONITOR MODULE W/ FLASHSCAN, 2 CLASS B	0.00075	0.00075	0.0064	0.0064
				S	1	FSP-951 W/B300-6	ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR. FLASHSCAN ONLY.	0.0002	0.0002	0.0045	0.0045
								TOTAL STANDBY (A)	0.68780	TOTAL ALARM (A)	1.89
								REQUIRED STANDBY TIME (HOURS)		24	
								REQUIRED ALARM TIME (MINUTES)		5	
SECONDARY STANDBY LOAD (A)							0.68780	24		16.51	
SECONDARY ALARM LOAD (A)							1.89	0.083		0.157	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)								16.66			
DERATING FACTOR								1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)								20.83			
PROVIDE (2) 12V 26AH BATTERIES											
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.											

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REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
BATTERY CALCULATIONS

DRN. BY: BF	DES. BY: BF	CK'D. BY: AY

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 PROJECT NUMBER FA11-1061

October 1, 2025 SHEET 67 OF 151 DWG. NO. 2025-D-010

LICENSED PROFESSIONAL ENGINEER
DAVID EDELMAN
FIRE PROTECTION
STATE OF CALIFORNIA
EXPIRES 6/30/2026

AUX1 VOLTAGE DROP REPORT

CURRENT SUMMARY		POWER SUMMARY	
MAX. CIRCUIT CURRENT (A):	1.50	STARTING CALC. VOLTAGE:	20.40
TOTAL CIRCUIT CURRENT (A):	0	MAX. VOLTAGE DROP:	0
SPARE CIRCUIT CURRENT (A):	1.50	VOLTAGE DROP %:	**0.00 %**
SPARE CIRCUIT CURRENT %:	**100.00 %**	MIN. OPERATIONAL VOLTAGE:	16
MAX. CARD CURRENT (A):	6	END OF LINE VOLTAGE:	20.40
TOTAL CARD CURRENT (A):	0.87950	WIRE RESISTANCE (Ω/KFT):	3.07
SPARE CARD CURRENT (A):	5.12	TOTAL CIRCUIT LENGTH (FT):	3
SPARE CARD CURRENT %:	**85.34 %**	TOTAL CIRCUIT RESISTANCE (Ω):	0.020083

CIRCUIT WIRING PROPERTIES: 'P' 14/2 FPLP/R AUX 14 AWG, 2 COND. SOLID COPPER FPLP/R UNSHIELDED

DISTANCE MEASURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL LENGTH CALCULATED

SYMBOL	QUANTITY	PART NO	DESCRIPTION	CANDELAS	ALARM CURRENT (A)	TOTAL CURRENT (A)
CELL	1	HON-CGW-MBB	CLSS GATEWAY WITH THE ENCLOSURE		0	0

CALCULATION METHODS:

TOTAL RESISTANCE (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X TOTAL CIRCUIT LENGTH (FT)

TOTAL VOLTAGE DROP = TOTAL RESISTANCE (Ω) X TOTAL CIRCUIT CURRENT (A)

N1 VOLTAGE DROP REPORT

CURRENT SUMMARY		POWER SUMMARY	
MAX. CIRCUIT CURRENT (A):	1.50	STARTING CALC. VOLTAGE:	20.40
TOTAL CIRCUIT CURRENT (A):	0.4725	MAX. VOLTAGE DROP:	0.790
SPARE CIRCUIT CURRENT (A):	1.03	VOLTAGE DROP %:	**3.87 %**
SPARE CIRCUIT CURRENT %:	**68.50 %**	MIN. OPERATIONAL VOLTAGE:	16
MAX. CARD CURRENT (A):	6	END OF LINE VOLTAGE:	19.61
TOTAL CARD CURRENT (A):	0.87950	WIRE RESISTANCE (Ω/KFT):	3.07
SPARE CARD CURRENT (A):	5.12	TOTAL CIRCUIT LENGTH (FT):	272
SPARE CARD CURRENT %:	**85.34 %**	TOTAL CIRCUIT RESISTANCE (Ω):	1.67

CIRCUIT WIRING PROPERTIES: 'V' 14/2 FPLP/R NAC 14 AWG, 2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED

DISTANCE MEASURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL LENGTH CALCULATED

SYMBOL	QUANTITY	PART NO	DESCRIPTION	CANDELAS	ALARM CURRENT (A)	TOTAL CURRENT (A)
	4	P2RLED	2-WIRE, HORN STROBE, RED	75CD	0.087	0.348
C	1	PC2WLED	2-WIRE, HORN STROBE, CEILING, WHITE	15CD	0.035	0.035
C	2	SCWLED	STROBE, CEILING, WHITE	15CD	0.018	0.036
F	1	PROVIDED BY C-16 CONTRACTOR	ALARM BELL		0.0535	0.0535

CALCULATION METHODS:

TOTAL RESISTANCE (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X TOTAL CIRCUIT LENGTH (FT)

TOTAL VOLTAGE DROP = TOTAL RESISTANCE (Ω) X TOTAL CIRCUIT CURRENT (A)

N2 VOLTAGE DROP REPORT

CURRENT SUMMARY		POWER SUMMARY	
MAX. CIRCUIT CURRENT (A):	1.50	STARTING CALC. VOLTAGE:	20.40
TOTAL CIRCUIT CURRENT (A):	0.407	MAX. VOLTAGE DROP:	0.690
SPARE CIRCUIT CURRENT (A):	1.09	VOLTAGE DROP %:	**3.38 %**
SPARE CIRCUIT CURRENT %:	**72.87 %**	MIN. OPERATIONAL VOLTAGE:	16
MAX. CARD CURRENT (A):	6	END OF LINE VOLTAGE:	19.71
TOTAL CARD CURRENT (A):	0.87950	WIRE RESISTANCE (Ω/KFT):	3.07
SPARE CARD CURRENT (A):	5.12	TOTAL CIRCUIT LENGTH (FT):	276
SPARE CARD CURRENT %:	**85.34 %**	TOTAL CIRCUIT RESISTANCE (Ω):	1.70

CIRCUIT WIRING PROPERTIES: 'V' 14/2 FPLP/R NAC 14 AWG, 2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED

DISTANCE MEASURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL LENGTH CALCULATED

SYMBOL	QUANTITY	PART NO	DESCRIPTION	CANDELAS	ALARM CURRENT (A)	TOTAL CURRENT (A)
	1	P2RLED	2-WIRE, HORN STROBE, RED	75CD	0.087	0.087
C	4	PC2WLED	2-WIRE, HORN STROBE, CEILING, WHITE	15CD	0.035	0.14
C	10	SCWLED	STROBE, CEILING, WHITE	15CD	0.018	0.18

CALCULATION METHODS:

TOTAL RESISTANCE (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X TOTAL CIRCUIT LENGTH (FT)

TOTAL VOLTAGE DROP = TOTAL RESISTANCE (Ω) X TOTAL CIRCUIT CURRENT (A)

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www.collingsandassociates.com

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
VOLTAGE DROP CALCULATIONS

DRN. BY: BF	DES. BY: BF	CK'D. BY: AY

PRINCIPAL ENGINEER — DATE: 5 May 2026

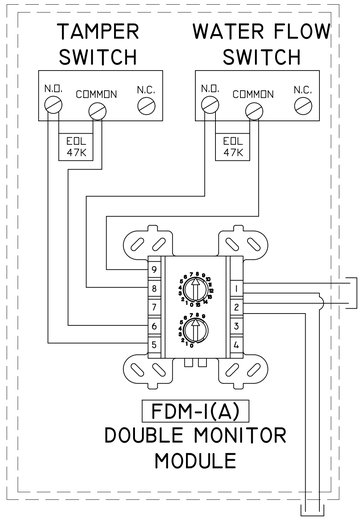
CITY ENGINEER — DATE: 5/7/2026

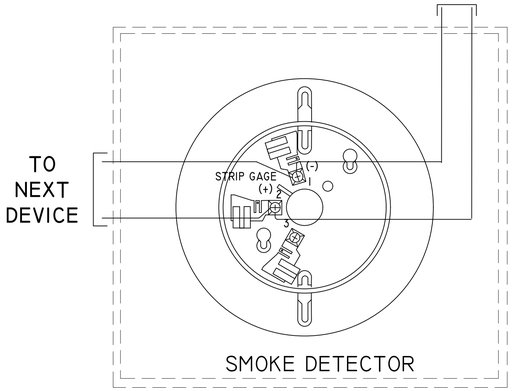
SPEC. NUMBER 2025-010 PROJECT NUMBER FA11-1061

October 1, 2025 SHEET 68 OF 151 DWG. NO. 2025-D-010

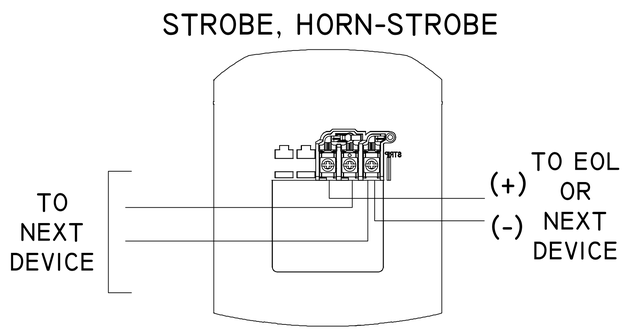
LICENSED PROFESSIONAL ENGINEER — PETER EDELMAN — EXPIRES 05/02/2026 — FIRE PROTECTION — STATE OF CALIFORNIA

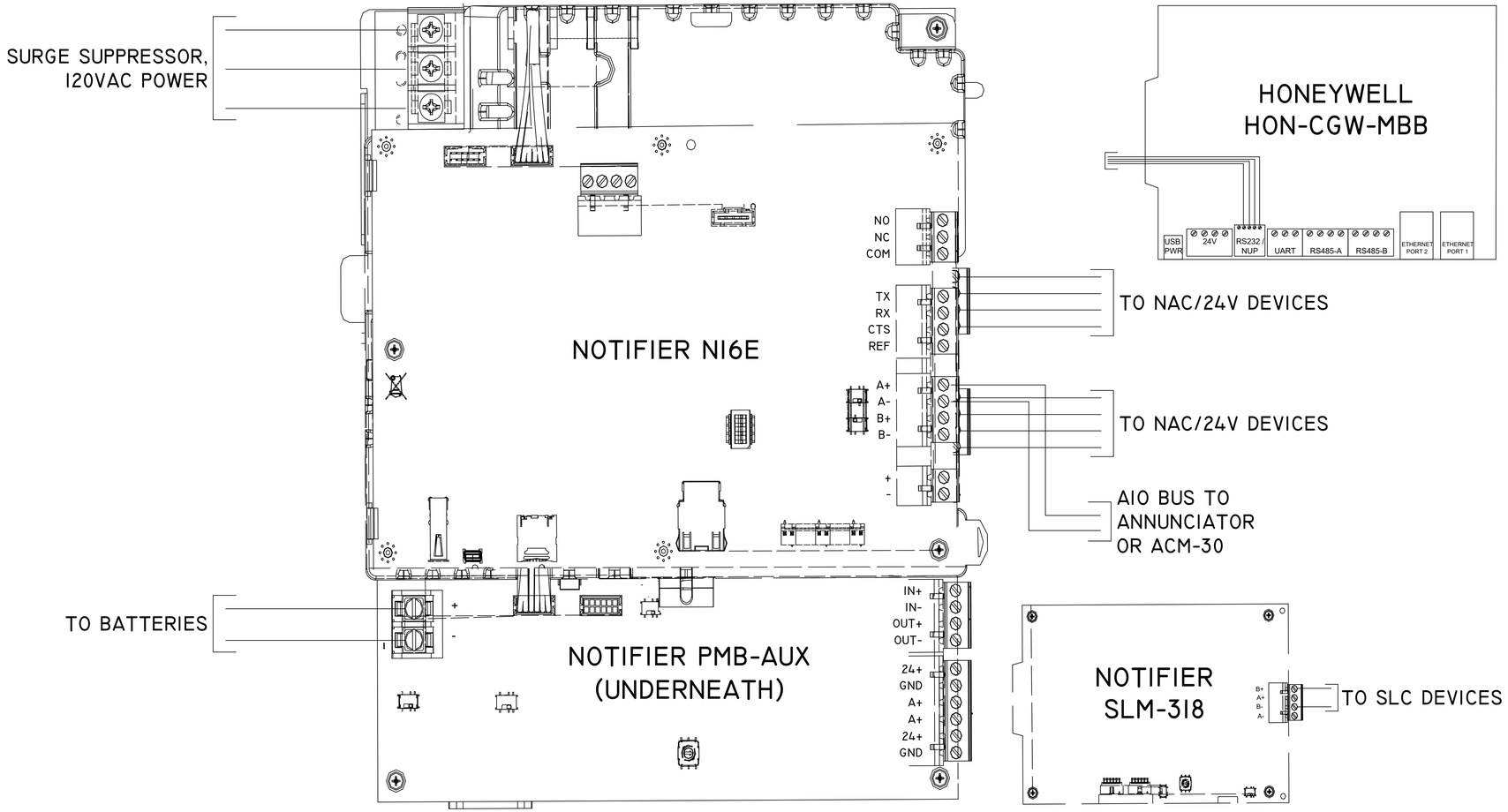
TYPICAL INITIATING DEVICES CONNECTIONS





TYPICAL NOTIFICATION DEVICES CONNECTIONS





APPARATUS BAY

COLLINGS & ASSOCIATES
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REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
WIRING DIAGRAMS

DRN. BY: BF	DES. BY: BF	CK'D. BY: AY

5 May 2026
PRINCIPAL ENGINEER — DATE

5/7/2026
CITY ENGINEER — DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
October 1, 2025	SHEET 69 OF 151 DWG. NO. 2025-D-010

LICENSED PROFESSIONAL ENGINEER — D. ED EDELMAN — PE 19147 — EXPIRES 06/30/2026 — FIRE PROTECTION — STATE OF CALIFORNIA

Article 342 — Intermediate Metal Conduit (IMC)

Metric Designator	Trade Size	Over 2 Wires 40%		60%		1 Wire 53%		2 Wires 31%		Nominal Internal Diameter		Total Area 100%	
		mm²	in.²	mm²	in.²	mm²	in.²	mm²	in.²	mm	in.	mm²	in.²
12	⅜	—	—	—	—	—	—	—	—	—	—	—	—
16	½	89	0.137	133	0.205	117	0.181	69	0.106	16.8	0.660	222	0.342
21	¾	151	0.235	226	0.352	200	0.311	117	0.182	21.9	0.864	377	0.586
27	1	248	0.384	372	0.575	329	0.508	192	0.297	28.1	1.105	620	0.959
35	1¼	425	0.659	638	0.988	564	0.873	330	0.510	36.8	1.448	1064	1.647
41	1½	573	0.890	859	1.335	759	1.179	444	0.690	42.7	1.683	1432	2.225
53	2	937	1.452	1405	2.178	1241	1.924	726	1.125	54.6	2.150	2341	3.630
63	2½	1323	2.054	1985	3.081	1753	2.722	1026	1.592	64.9	2.557	3308	5.135
78	3	2046	3.169	3069	4.753	2711	4.199	1586	2.456	80.7	3.176	5115	7.922
91	3½	2729	4.234	4093	6.351	3616	5.610	2115	3.281	93.2	3.671	6822	10.584
103	4	3490	5.452	5235	8.179	4624	7.224	2705	4.226	105.4	4.166	8725	13.631
129	5	5455	8.528	8183	12.792	7229	11.30	4228	6.610	131.78	5.210	13639	21.32
155	6	7878	12.304	11817	18.456	10439	16.302	6106	9.536	158.36	6.258	19696	30.76

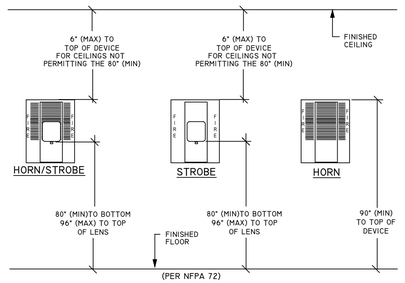
Articles 352 and 353 — Rigid PVC Conduit (PVC), Schedule 40, and HDPE Conduit (HDPE)

Metric Designator	Trade Size	Over 2 Wires 40%		60%		1 Wire 53%		2 Wires 31%		Nominal Internal Diameter		Total Area 100%	
		mm²	in.²	mm²	in.²	mm²	in.²	mm²	in.²	mm	in.	mm²	in.²
12	⅜	—	—	—	—	—	—	—	—	—	—	—	—
16	½	74	0.114	110	0.171	97	0.151	57	0.088	15.3	0.602	184	0.285
21	¾	131	0.203	196	0.305	173	0.269	101	0.157	20.4	0.804	327	0.508
27	1	214	0.333	321	0.499	284	0.441	166	0.258	26.1	1.029	535	0.832
35	1¼	374	0.581	561	0.872	495	0.770	290	0.450	34.5	1.360	935	1.453
41	1½	513	0.794	769	1.191	679	1.052	397	0.616	40.4	1.590	1282	1.986
53	2	849	1.316	1274	1.975	1126	1.744	658	1.020	52.0	2.047	2124	3.291
63	2½	1212	1.878	1817	2.817	1605	2.488	939	1.455	62.1	2.445	3029	4.695
78	3	1877	2.907	2816	4.361	2487	3.852	1455	2.253	77.3	3.042	4693	7.268
91	3½	2511	3.895	3766	5.842	3327	5.161	1946	3.018	89.4	3.521	6277	9.737
103	4	3237	5.022	4855	7.532	4288	6.654	2508	3.892	101.5	3.998	8091	12.554
129	5	5099	7.904	7649	11.856	6756	10.473	3952	6.126	127.4	5.016	12748	19.761
155	6	7373	11.427	11060	17.140	9770	15.141	5714	8.856	153.2	6.031	18433	28.567

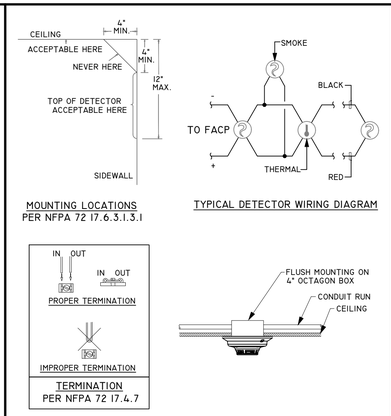
Article 344 — Rigid Metal Conduit (RMC)

Metric Designator	Trade Size	Over 2 Wires 40%		60%		1 Wire 53%		2 Wires 31%		Nominal Internal Diameter		Total Area 100%	
		mm²	in.²	mm²	in.²	mm²	in.²	mm²	in.²	mm	in.	mm²	in.²
12	⅜	—	—	—	—	—	—	—	—	—	—	—	—
16	½	81	0.125	122	0.188	108	0.166	63	0.097	16.1	0.632	204	0.314
21	¾	141	0.220	212	0.329	187	0.291	109	0.170	21.2	0.836	353	0.549
27	1	229	0.355	344	0.532	303	0.470	177	0.275	27.0	1.063	573	0.887
35	1¼	394	0.610	591	0.916	522	0.809	305	0.473	35.4	1.394	984	1.526
41	1½	533	0.829	800	1.243	707	1.098	413	0.642	41.2	1.624	1333	2.071
53	2	879	1.363	1319	2.045	1165	1.806	681	1.056	52.9	2.083	2198	3.408
63	2½	1255	1.946	1882	2.919	1663	2.579	972	1.508	63.2	2.489	3137	4.866
78	3	1936	3.000	2904	4.499	2565	3.974	1500	2.325	78.5	3.090	4840	7.499
91	3½	2584	4.004	3877	6.006	3424	5.305	2003	3.103	90.7	3.570	6461	10.010
103	4	3326	5.153	4990	7.729	4408	6.828	2578	3.994	102.9	4.050	8316	12.882
129	5	5220	8.085	7830	12.127	6916	10.713	4045	6.266	128.9	5.073	13050	20.212
155	6	7528	11.663	11292	17.495	9975	15.454	5834	9.039	154.8	6.093	18821	29.158

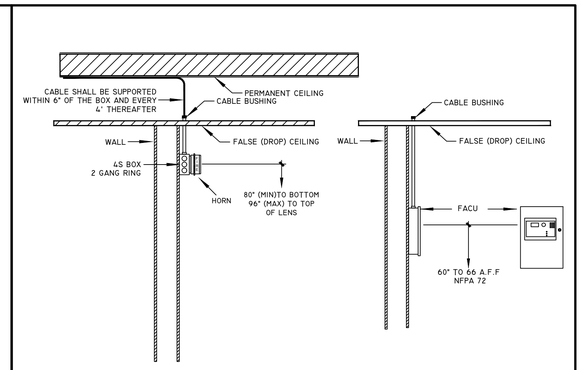
1 CONDUIT TYPES WIRING FILL TABLES — TYPICAL INSTALLATION DETAIL — NOT TO SCALE



2 HORN/STROBE, HORN & STROBE — TYPICAL INSTALLATION DETAIL — NOT TO SCALE

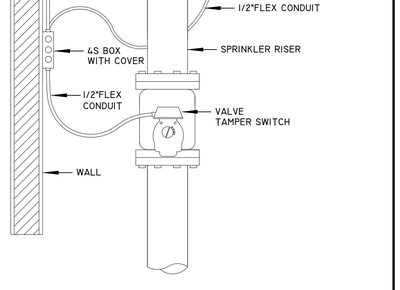


3 ADDRESSABLE DETECTOR MOUNTING — TYPICAL INSTALLATION DETAIL — NOT TO SCALE

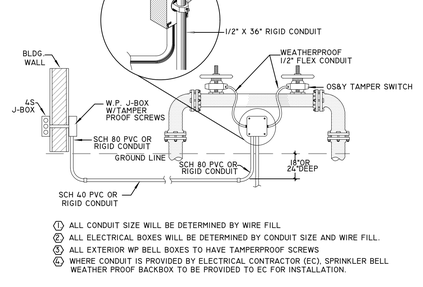


TYPICAL FACU & HORN SURFACE MOUNT INSTALLATION DETAIL

4 TYPICAL WALL MOUNT DEVICES — TYPICAL INSTALLATION DETAIL — NOT TO SCALE

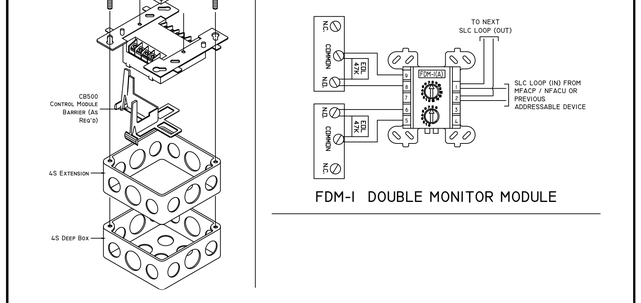


5 WATERFLOW AND VALVE TAMPERSWITCH — TYPICAL INSTALLATION DETAIL — NOT TO SCALE



1. ALL CONDUIT SIZE WILL BE DETERMINED BY WIRE FILL
2. ALL ELECTRICAL BOXES WILL BE DETERMINED BY CONDUIT SIZE AND WIRE FILL.
3. ALL EXTERIOR WP BELL BOXES TO HAVE TAMPERPROOF SCREWS
4. WHERE CONDUIT IS PROVIDED BY ELECTRICAL CONTRACTOR (EC), SPRINKLER BELL WEATHER PROOF BACKBOX TO BE PROVIDED TO EC FOR INSTALLATION.

6 TAMPER SWITCH ON A OS&Y GATE VALVE — TYPICAL INSTALLATION DETAIL — NOT TO SCALE



FDM-I DOUBLE MONITOR MODULE

7 FDM DOUBLE MONITOR MODULE — TYPICAL INSTALLATION DETAIL — NOT TO SCALE

COLLINGS & ASSOCIATES
FIRE PROTECTION ENGINEERING
260 MAPLE COURT, 241 VENTURA, CA 93003
PHONE: (805)658-0003 FAX: (805)658-0044
www.collingsandassociates.com

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
DETAILS

DRN. BY: BF	DES. BY: BF	CK'D. BY: AY

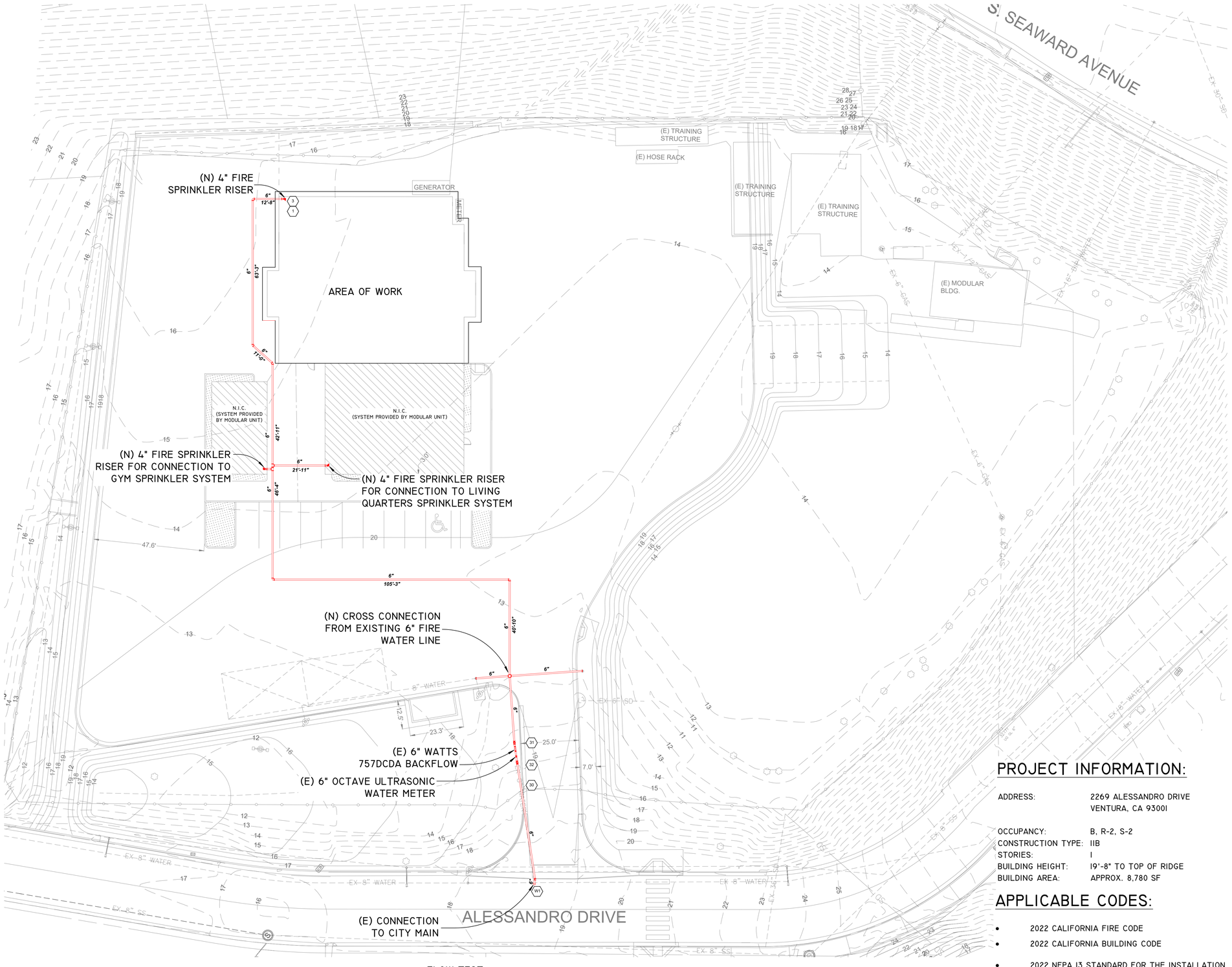
PRINCIPAL ENGINEER — 5 May 2026 — DATE

CITY ENGINEER — 5/7/2026 — DATE

LICENSED PROFESSIONAL ENGINEER — D. TED EDELMAN — FIRE PROTECTION — STATE OF CALIFORNIA — EXPIRES 6/30/2026

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

October 1, 2025 | SHEET 70 OF 151 | DWG. NO. 2025-D-010



SITE PLAN
SCALE: 1" = 20'-0"

FLOW TEST:
STATIC @ 85 PSI
RESIDUAL @ 20 PSI
FLOW @ 3671 GPM

FIRE SPRINKLER NOTES

1. PROVIDE A COMPLETE, FUNCTIONING FIRE SPRINKLER SYSTEM DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13, 2022 EDITION. SYSTEM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE BUILDING CODE, FIRE CODE, AND AUTHORITY HAVING JURISDICTION.
2. APPROVAL PRIOR TO COMMENCING WORK, APPROVAL SHALL BE RECEIVED FROM THE OWNERS INSURANCE COMPANY, ENGINEER, FIRE MARSHAL AND OWNER. WORK COMMENCED PRIOR TO SHOP DRAWING REVIEW SHALL BE AT CONTRACTOR'S RISK.
3. ENGINEER PROVIDED DESIGN: THESE DOCUMENTS ARE INTENDED TO PROVIDE AND DESCRIBE A WORKING INSTALLATION COMPLETE IN DETAIL. ALL EQUIPMENT, COMPONENTS, AND LABOR REQUIRED FOR A COMPLETE INSTALLATION SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THESE DRAWINGS. UNLESS INDICATED OTHERWISE, IT IS UNDERSTOOD THAT PIPE SIZES SHALL BE AS SHOWN ON DRAWINGS.
4. PIPING AND COORDINATION:
   A. FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES FOR THE LOCATION OF ALL PIPING AND EQUIPMENT TO PREVENT INTERFERENCE. PROVIDE ALL NECESSARY OFFSETS IN PIPING TO AVOID CONFLICT. NO CHANGE TO THE CONTRACT PRICE WILL BE ACCEPTED WHERE ALTERNATE PIPING ROUTES ARE REQUIRED.
   B. PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE IN OPEN STRUCTURE AREAS.
   C. RENDER ANY PASSAGE OF PIPING THOUGH OUTSIDE WALLS PERMANENTLY WATERTIGHT.
   D. PROVIDE SEISMIC BRACING AS REQUIRED FOR NEW PIPING. REFER TO BRACING DETAILS.
   E. PROVIDE AUXILIARY DRAINS AS REQUIRED FOR DRAINING TRAPPED SECTIONS OF PIPING. FOR TRAPPED SECTIONS OF PIPING EXCEEDING 5 GALLONS IN CAPACITY, PROVIDE A HARD-PIPED DRAIN CONNECTION AND ROUTE BACK TO DRAIN IN SPRINKLER RISER ROOM OR ALTERNATE LOCATION APPROVED BY ENGINEER.
   F. PIPES 2 INCH OR SMALLER TO BE SCHEDULE 40 STEEL PIPE WITH THREADED FITTINGS.
   G. PIPES 2 ½ TO 8 INCH TO BE SCHEDULE #10 STEEL PIPE WITH GRVD ENDS.
5. IT IS THE RESPONSIBILITY OF THE ON-SITE SUPERVISOR TO MAINTAIN THE INTEGRITY OF THE SPRINKLER SYSTEM.
6. ONLY NEW SPRINKLERS SHALL BE EMPLOYED IN THE INSTALLATION OF THE SPRINKLER SYSTEM. UNLESS NOTED.
7. THE SYSTEM SHALL ONLY EMPLOY THE USE OF U.L. LISTED MATERIALS AND DEVICES.
8. SPRINKLERS AND PIPING LOCATIONS MAY VARY FROM ROOM TO ROOM DUE TO FIELD CONDITIONS.
9. ROUGH AND FINAL INSPECTION ARE REQUIRED ON ALL SYSTEMS.
10. FIRE DEPARTMENT CONNECTIONS SHALL BE VISIBLE, ACCESSIBLE, HAVE NST FEMALE OUTLETS & PROTECTIVE CAPS, AND AN APPROVED CHECK VALVE IN THE MAIN LINE (AS CLOSE TO THE FDC AS POSSIBLE).
11. A METAL CALCULATION PLATE INDICATING THE HIGHEST RESIDUAL PRESSURE REQUIRED FOR THE SYSTEM OPERATION SHALL BE PERMANENTLY ATTACHED TO THE RISER.

HANGER NOTES

1. 3/8" A.T.R. ROD SHALL BE USED ON PIPES 1 TO 4 INCHES.½" ATR FOR 5, 6 & 8 INCHES PIPE, AND 5/8" ATR FOR 10 & 12 INCHES PIPE.
2. THE MAX. UNSUPPORTED LENGTH FROM THE END OF A LINE TO HANGER SHALL BE 36" FOR 1", 48" FOR 1 ¼, 60" FOR 1 ½" PIPE AND ABOVE.
3. THE MAXIMUM HANGER SPACING SHALL BE 12 FT. FOR 1" TO 1 ¼" PIPE, 15 FT. FOR 1 ½" PIPE AND ABOVE EXCEPT THREADED LIGHT WALL. FOR THREADED LIGHT WALL MAXIMUM SPACING IS 12 FT. FOR PIPE UP TO 3 IN.(UNLESS NOTED OTHERWISE).
4. HANGERS ARE REQUIRED ON ARM-OVER EXCEEDING 2 FT. FROM CENTER -TO -CENTER.
5. ALL HANGERS SHALL BE IN ACCORDANCE WITH NFPA-13. TABLE 17.4.2.1(A). ALL ARM-OVER MORE THAN 2'-0 SHALL HAVE HANGER. IF STATIC PRESSURE EXCEEDS 100 PSI, HANGER IS REQUIRED ON ARM-OVER MORE THAN 1'-0".
6. RESTRAINT OF BRANCH LINES SHALL NOT APPLY TO PIPES INDIVIDUALLY SUPPORTED BY RODS LESS THAN 6 IN. LONG MEASURED BETWEEN THE TOP OF THE PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE. PER SEC. 18.6.5, NFPA 13, 2022 EDITION.

SEISMIC NOTES

1. SWAY BRACES SHALL BE DESIGNED AND INSTALLED IN COMPLIANCE WITH NFPA 13, 2022 EDITION. CALCULATION BASED ON ZONE OF INFLUENCE. (SEE DETAIL SHEET FOR SEISMIC BRACING CALCULATION)
2. LATERAL BRACE SHALL NOT APPLY WHERE U-TYPE HOOKS OF THE WRAP-AROUND TYPE OR THOSE U-TYPE HOOKS ARRANGED TO KEEP THE PIPE TIGHT TO THE UNDERSIDE OF THE STRUCTURE ELEMENT SHALL BE PERMITTED TO BE USED TO SATISFY THE REQUIREMENTS FOR LATERAL SWAY BRACE BRACING, PROVIDED THE LEGS ARE BENT OUT AT LEAST 30 DEGREES FROM THE VERTICAL. (SEC. 18.5.5.11.1)

SCOPE OF WORK

TO PROVIDE AND DESIGN NEW SPRINKLER PROTECTION THROUGHOUT THE NEW FIRE STATION 7 PER NFPA 13, 2022 EDITION AND VENTURA CITY FIRE DEPARTMENT.

ORDINARY HAZARD II
0.20 DENSITY OVER 1500^{2}FT
MINIMUM DESIGN AREA PER NFPA 13, 2022 EDITION

FIRE SPRINKLER LEGEND

	FIRE SPRINKLER RISER
	NEW SPRINKLER PENDENT
	NEW SPRINKLER UPRIGHT
	PIPE HANGER
	PIPE RESTRAINT
FW	UNDERGROUND FIRE WATER
	FLOW HYDRANT
BFP	BACKFLOW PREVENTER
	LATERAL SEISMIC BRACING
	LONGITUDINAL SEISMIC BRACING
	4-WAY SEISMIC BRACING

FIRE SPRINKLER INFORMATION

SYM.	MODEL	SIN	NPT	K	TEMP	DESCRIPTION	QTY.
○	FL-QR	V2704	1/2	5.6	165°	SPRINKLER UPRIGHT	66
△	FL-QR/SW	V2710	1/2	5.6	175°	SPRINKLER SIDEWALL FOR SECTIONAL DOORS	5

PROJECT INFORMATION:

ADDRESS:	2269 ALESSANDRO DRIVE VENTURA, CA 93001
OCCUPANCY:	B, R-2, S-2
CONSTRUCTION TYPE:	IIB
STORIES:	1
BUILDING HEIGHT:	19'-8" TO TOP OF RIDGE
BUILDING AREA:	APPROX. 8,780 SF

APPLICABLE CODES:

- 2022 CALIFORNIA FIRE CODE
- 2022 CALIFORNIA BUILDING CODE
- 2022 NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

LICENSED CERTIFIED SPECIALTY ENGINEER
FIRE PROTECTION
STATE OF CALIFORNIA
No. 7847
EXPIRES 6/30/2026

REV.	DESCRIPTION	CK'D	APP	DATE

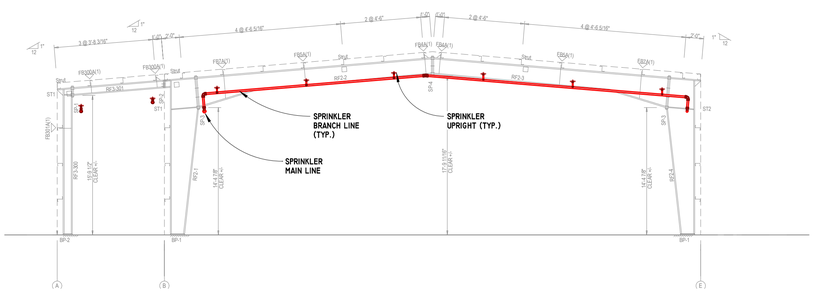
PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7 GENERAL NOTES AND SITE PLAN

DRN. BY: C&A	DES. BY: C&A	CK'D. BY:

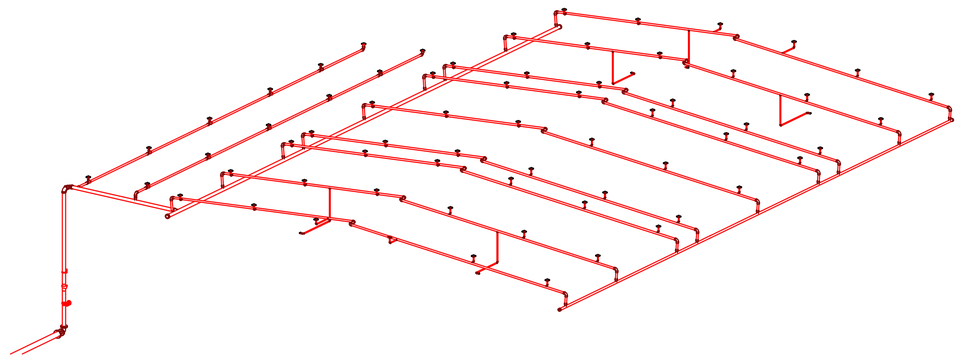
PRINCIPAL ENGINEER — 5 May 2026 DATE
CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
9-24-25	SHEET 71 OF 151 | DWG. NO. 2025-D-010

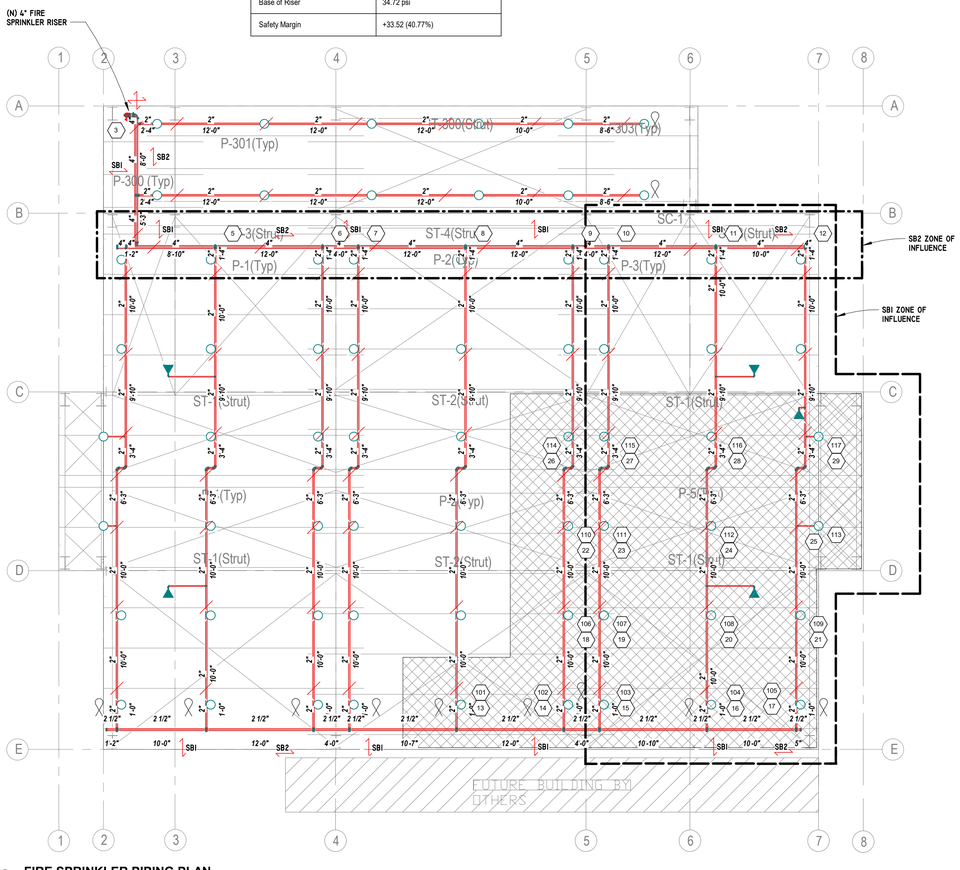


3 Section 1
SCALE: 1/8" = 1'-0"

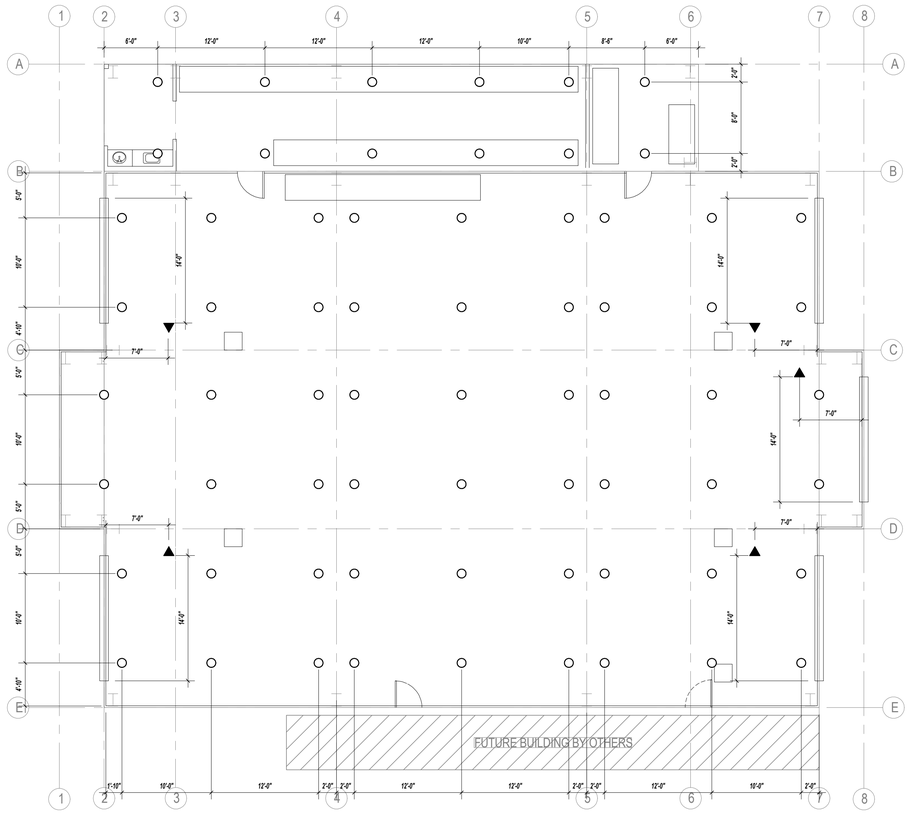
HYDRAULIC INFORMATION	
Remote Area Name	RA1
Occupancy Classification	Ordinary Group II
Density	0.20 GPM
Total Hose Streams	250.00 GPM
Flowing Sprinklers	17 @ 24.00 GPM
K-Factor	5.6
Total Water Required	668.32 GPM
Total Pressure Required	48.70 psi
Base of Riser	418.32 GPM
Base of Riser	34.72 psi
Safety Margin	+33.52 (40.77%)



3D ISOMETRIC
NOT TO SCALE



2 FIRE SPRINKLER PIPING PLAN
SCALE: 1/8" = 1'-0"



1 FIRE SPRINKLER CEILING PLAN
SCALE: 1/8" = 1'-0"

FIRE SPRINKLER LEGEND

	FIRE SPRINKLER RISER
	NEW SPRINKLER PENDENT
	NEW SPRINKLER UPRIGHT
	PIPE HANGER
	PIPE RESTRAINT
F.W.	UNDERGROUND FIRE WATER
	FLOW HYRANT
BFP	BACKFLOW PREVENTER
	LATERAL SEISMIC BRACING
	LONGITUDINAL SEISMIC BRACING
	4-WAY SEISMIC BRACING

FIRE SPRINKLER INFORMATION

SYM.	MODEL	SIN	NPT	K	TEMP	DESCRIPTION	QTY.
○	FL-QR	V2704	1/2	5.6	165°	SPRINKLER UPRIGHT	66
△	FL-QR/SW	V2710	1/2	5.6	175°	SPRINKLER SIDEWALL FOR SECTIONAL DOORS	5

REV.	DESCRIPTION	CK'D	APP	DATE

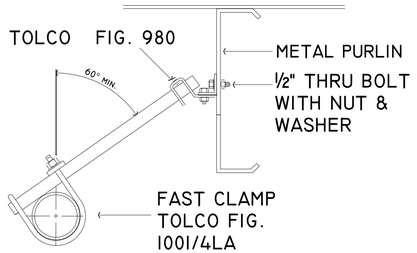
PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
FIRE SPRINKLER PLAN

DRN. BY: C&A	DES. BY: C&A	CK'D. BY:
PRINCIPAL ENGINEER		5 May 2026 DATE
CITY ENGINEER		5/7/2026 DATE

LICENSED PROFESSIONAL ENGINEER — DAVID EPELMAN — NO. 19847 — EXPIRES 6/30/2026 — FIRE PROTECTION — STATE OF CALIFORNIA

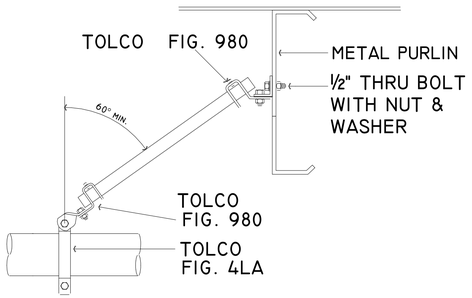
SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
9-24-25	SHEET 72 OF 151 | DWG. NO. 2025-D-010



PLAN SYM.

NOT TO SCALE

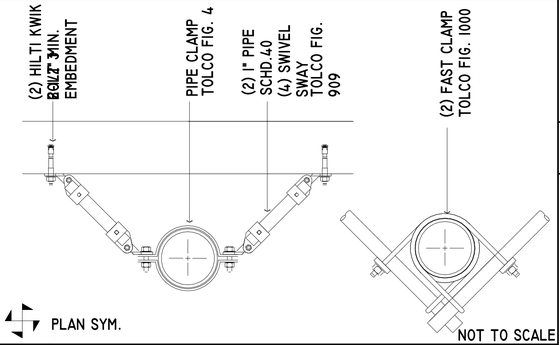
5 SBI LATERAL BRACE



PLAN SYM.

NOT TO SCALE

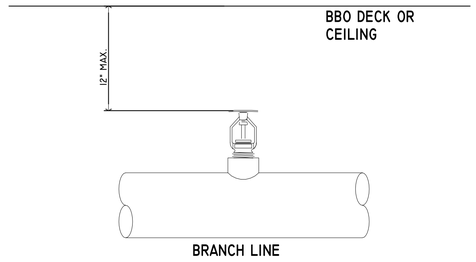
6 SB2 LONGITUDINAL BRACE



PLAN SYM.

NOT TO SCALE

7 4-WAY SWAY BRACE

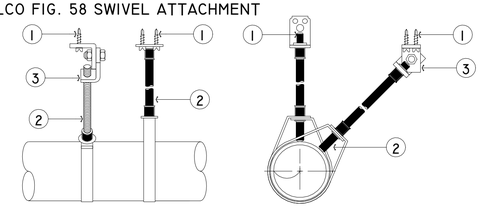


PLAN SYM.

NOT TO SCALE

2 TYPICAL SPRINKLER UPRIGHT

① (2) #16 X 2" DRIVE SCREWS - UP TO 2" PIPE
② ROD IS EXTENDED TO RESTRAIN PIPE FROM VERTICAL MOVEMENT
③ TOLCO FIG. 58 SWIVEL ATTACHMENT



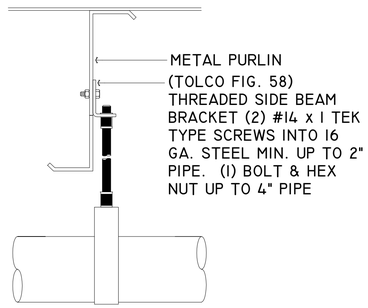
NOTE:

1. RESTRAINT OF BRANCH LINES SHALL NOT APPLY TO PIPES INDIVIDUALLY SUPPORTED BY RODS LESS THAN 6 IN. LONG MEASURED BETWEEN THE TOP OF THE PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE. (SEC. 9.3.6.5)
2. BRACING INTERVALS NOT TO EXCEED 41-FT PER TABLE 9.3.6.4(A)
3. END LINE BRACING SHALL BE LOCATED WITHIN 2'-0 OF A HANGER THAT RESTRAINT THE PIPE FROM UPWARD MOVEMENT.

PLAN SYM.

NOT TO SCALE

3 BRANCH LINE RESTRAINT

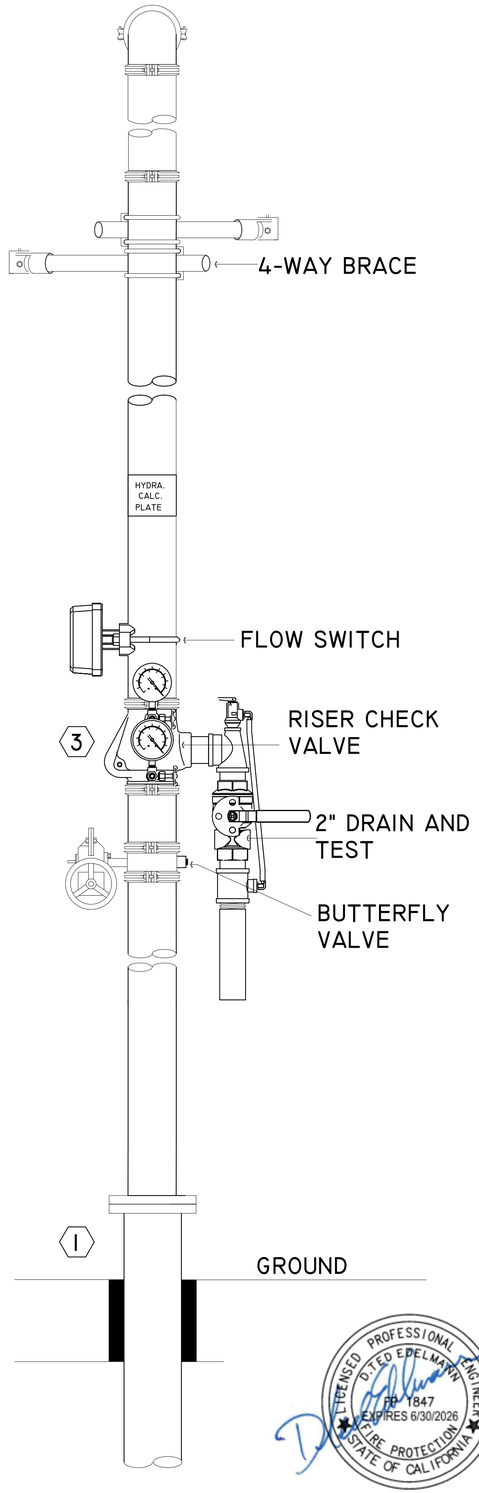


TOLCO FIG.58

PLAN SYM.

NOT TO SCALE

4 SIDE BRACKET HANGER



1 NEW FIRE SPRINKLER RISER

D. TED EDELMANN
No. 1847
EXPIRES 6/30/2026
LICENSED PROFESSIONAL ENGINEER
FIRE PROTECTION
STATE OF CALIFORNIA

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

DETAILS

DRN. BY: C&A	DES. BY: C&A	CK'D. BY:

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
9-24-25	SHEET 73 OF 151	DWG. NO. 2025-D-010

TOLBrace™ Seismic Calculation

Fire Station 7 — Job #

2269 Alessandro

Brace Identification	SB2 - LONGITUDINAL
Brace Type (Per NFPA#13)	NFPA Type D
Braced Pipe (ft)	4" Sch.10 Steel Pipe
Spacing of Brace	63' 0" (19.2 m)
Orientation of Brace	Longitudinal
Bracing Material	1" Sch.40
Maximum Brace Length	7' 0" (2.13 m)
Slenderness Ratio used for Load Calculation	200
True Angle of Brace for Calculation	30°
Type of Fastener	Fig.825 Along Beam
Length of Fastener	N/A

Summary of Pipe within Zone of Influence

4" Sch.10 Steel Pipe (101.6 mm)	63 ft (19.2 m)

G-Factor Used	0.93
Allowance for Heads and Fittings	15%
Conclusions	
Total Adjusted Load of Pipe in Zone of Influence	794 lbs (360 kg)
Material Capacity	926 lbs (420 kg)
Fastener Capacity	800 lbs (363 kg)
Fig. 4L Clamp	1000 lbs (454 kg)
Fig.980 - 3/8" Universal Swivel	800 lbs (363 kg)
Structural Member	STEEL BEAM

Calculations prepared by C&A

* The description of the Structural Member is for informational purposes only.
TOLBrace™ software calculates the brace assembly only, not the structure it is attached to.
Calculated with TOLBrace™ 8
Visit us at www.tolco.com

TOLBrace™ Seismic Bracing Calculations

V8.8.144

Project Address: Fire Station 7
2269 Alessandro
Ventura CA
Job #

Contractor:
Address:
Phone:
License:

Calculations based on 2022 NFPA Pamphlet #13

Brace Information

Maximum Brace Length	7' 0" (2.134 m)
Diameter of Brace	1"
Type of Brace	Sch.40
Angle of Brace	30° Min.
Least Rad. of Gyration	0.42" (11 mm)
L/R Value	200
Max Horizontal Load	926 lbs (420 kg)

Fastener Information

Orientation to Connecting Surface NFPA Type D

Fastener

Type	Fig.825 Along
Diameter	N/A
Length	N/A
Maximum Load	1600 lbs (726 kg)
Prying Factor	N/A

TOLCO™ Brace Components

TOLCO™ Component	Listed Load	Adjusted Load
Fig. 4L Clamp	2000 lbs (907 kg)	1000 lbs (454 kg)
Fig.980 - 3/8" Universal Swivel	1600 lbs (726 kg)	800 lbs (363 kg)
Fig.825 Along	1600 lbs (726 kg)	800 lbs (362 kg)

*Calculation Based on CONCENTRIC Loading
*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.

Seismic Brace Assembly Detail

Brace Identification on Plans SB2 - LONGITUDINAL

Brace Type Lateral [ ] Longitudinal [X] 4-Way [ ]

Sprinkler System Load Calculation (Fpw = CpWp)

Cp = 0.93

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
4" (100 mm)	Sch. 10	63 ft (19.2 m)	63 ft (19.2 m)	11.78 lb/ft (17.53 kg/m)	742 lbs (337 kg)

Subtotal Weight	742 lbs (337 kg)
Wp (incl. 15%)	853 lbs (387 kg)
Total (Fpw)	794 lbs (360 kg)
Maximum Fpw per 18.5.5.2 (if applicable)	N/A

Main Size	Type/Sch.	Spacing (ft)
4"	Sch. 10	63

(TOLBrace™ Version 8) Use of TOLBrace™ is subject to terms and conditions per the end user license agreement

TOLBrace™ Seismic Calculation

Fire Station 7 — Job #

2269 Alessandro

Brace Identification	SB1 - LATERAL
Brace Type (Per NFPA#13)	NFPA Type D
Braced Pipe (ft)	4" Sch.10 Steel Pipe
Spacing of Brace	21' 0" (6.4 m)
Orientation of Brace	Lateral
Bracing Material	1" Sch.40
Maximum Brace Length	7' 0" (2.13 m)
Slenderness Ratio used for Load Calculation	200
True Angle of Brace for Calculation	30°
Type of Fastener	Fig.825 Across Beam
Length of Fastener	N/A

Summary of Pipe within Zone of Influence

4" Sch.10 Steel Pipe (101.6 mm)	21 ft (6.4 m)

G-Factor Used	0.93
Allowance for Heads and Fittings	15%
Conclusions	
Total Adjusted Load of Pipe in Zone of Influence	265 lbs (120 kg)
Material Capacity	926 lbs (420 kg)
Fastener Capacity	800 lbs (363 kg)
Fig. 1001 Clamp	1000 lbs (454 kg)
Fig.980 - 3/8" Universal Swivel	800 lbs (363 kg)
Structural Member	STEEL BEAMS

Calculations prepared by C&A

* The description of the Structural Member is for informational purposes only.
TOLBrace™ software calculates the brace assembly only, not the structure it is attached to.
Calculated with TOLBrace™ 8
Visit us at www.tolco.com

TOLBrace™ Seismic Bracing Calculations

V8.8.144

Project Address: Fire Station 7
2269 Alessandro
Ventura CA
Job #

Contractor:
Address:
Phone:
License:

Calculations based on 2022 NFPA Pamphlet #13

Brace Information

Maximum Brace Length	7' 0" (2.134 m)
Diameter of Brace	1"
Type of Brace	Sch.40
Angle of Brace	30° Min.
Least Rad. of Gyration	0.42" (11 mm)
L/R Value	200
Max Horizontal Load	926 lbs (420 kg)

Fastener Information

Orientation to Connecting Surface NFPA Type D

Fastener

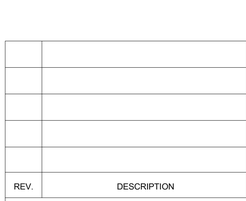
Type	Fig.825 Across
Diameter	N/A
Length	N/A
Maximum Load	1600 lbs (726 kg)
Prying Factor	N/A

TOLCO™ Brace Components

TOLCO™ Component	Listed Load	Adjusted Load
Fig. 1001 Clamp	2000 lbs (907 kg)	1000 lbs (454 kg)
Fig.980 - 3/8" Universal Swivel	1600 lbs (726 kg)	800 lbs (363 kg)
Fig.825 Across	1600 lbs (726 kg)	800 lbs (362 kg)

*Calculation Based on CONCENTRIC Loading
*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.

Seismic Brace Assembly Detail



Brace Identification on Plans SB1 - LATERAL

Brace Type Lateral [X] Longitudinal [ ] 4-Way [ ]

Sprinkler System Load Calculation (Fpw = CpWp)

Cp = 0.93

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
4" (100 mm)	Sch. 10	21 ft (6.4 m)	21 ft (6.4 m)	11.78 lb/ft (17.53 kg/m)	247 lbs (112 kg)

Subtotal Weight	247 lbs (112 kg)
Wp (incl. 15%)	284 lbs (129 kg)
Total (Fpw)	264 lbs (120 kg)
Maximum Fpw per 18.5.5.2 (if applicable)	Contact Pipe Manufacturer

Main Size	Type/Sch.	Spacing (ft)
4"	Sch. 10	21

(TOLBrace™ Version 8) Use of TOLBrace™ is subject to terms and conditions per the end user license agreement

3/10/25, 2:26 PM U.S. Seismic Design Maps

USGS web services were down for some period of time and as a result this tool wasn't operational, resulting in *timeout* error.
USGS web services are now operational so this tool should work as expected.

OSHPD

2269 Alessandro Dr, Ventura, CA 93001, USA

Latitude, Longitude: 34.2669561, -119.2692702

Date	3/10/2025, 2:25:52 PM
Design Code Reference Document	ASCE7-16
Risk Category	II
Site Class	D - Default (See Section 11.4.3)

Type	Value	Description
S_S	1.956	MCE_R ground motion. (for 0.2 second period)
S_1	0.735	MCE_R ground motion. (for 1.0s period)
S_{MS}	2.347	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	1.565	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1.2	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.859	MCE_G peak ground acceleration
F_{PGA}	1.2	Site amplification factor at PGA
PGA_M	1.031	Site modified peak ground acceleration
T_L	8	Long-period transition period in seconds
SsRT	1.956	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	2.215	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	2.457	Factored deterministic acceleration value. (0.2 second)
S1RT	0.735	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.832	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.765	Factored deterministic acceleration value. (1.0 second)
PGAd	0.984	Factored deterministic acceleration value. (Peak Ground Acceleration)

https://www.seismicmaps.org 1/3

LICENSED PROFESSIONAL ENGINEER — DAVID T. EDELMAN — NO. 1847 — EXPIRES 6/30/2026 — FIRE PROTECTION — STATE OF CALIFORNIA

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

SEISMIC BRACING

DRN. BY: C&A	DES. BY: C&A	CK'D. BY:

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

SPEC. NUMBER 2025-010 — PROJECT NUMBER FA11-1061

9-24-25 — SHEET 74OF 151 — DWG. NO. 2025-D-010

CAL GREEN CODE NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.4-MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

5.410.4 TESTING AND ADJUSTING. TESTING AND ADJUSTING OF SYTEMS SHALL BE REQUIRED FOR NEW BUILDINGS LESS THAN 10,000 SQUARE FEET OR NEW SYSTEMS TO SERVE AN ADDITION OR ALTERATION SUBJECT TO 2022 CGBSC 303.1.
5.410.4.2 SYSTEMS. DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE AT A MINIMUM, AS APPLICABLE TO THE PROJECT:
1. HVAC SYSTEMS AND CONTROLS
2. WATER HEATING SYSTEMS
3. WATER REUSE SYSTEMS
5.410.4.3 PROCEDURES. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND APPLICABLE STANDARDS ON EACH SYSTEM.

AT A MINIMUM THE MECHANICAL CONTRACTOR SHALL OBTAIN THE LATEST START-UP CHECK LIST(S) FROM THE EQUIPMENT MANUFACTURER AND PERFORM ALL TESTS AND CHECKS APPLICABLE. AFTER COMPLETION OF THE START-UP CHECK LIST THE MECHANICAL CONTRACTOR SHALL MAKE ADJUSTMENTS TO PUT THE EQUIPMENT IN PEAK WORKING ORDER. MECHANICAL CONTRACTOR SHALL DOCUMENT ALL WORK PERFORMED. CLOSE OUT DOCUMENTATION PROVIDED TO THE GENERAL CONTRACTOR SHALL INCLUDE ALL COMPLETED CHECK LIST(S) AND DOCUMENTATION FOR ANY WORK PERFORMED. THE GENERAL CONTRACTOR SHALL SUBMIT THE CHECK LIST(S) AND WORK DOCUMENTATION TO ENGINEER OF RECORD.

5.410.4.3.1 HVAC BALANCING. IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, THE SYSTEM SHALL BE BALANCED IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS; THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS; ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS OR AS APPROVED BY THE BUILDING ENFORCING AGENCY.

TESTING AND AIR BALANCING SHALL BE PERFORMED BY AN INDEPENDENT BALANCING COMPANY CERTIFIED BY ASSOCIATED AIR BALANCE COUNCIL (AABC), NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) OR TESTING, ADJUSTING, AND BALANCING BUREAU (TABB). TESTING AND BALANCING SHALL BE PERFORMED BY A COMPANY OTHER THAN THE MECHANICAL SYSTEM INSTALLERS/CONTRACTOR. THE NAME OF THE FIRM THAT THE CONTRACTOR PROPOSES TO ENGAGE TO PERFORM THIS WORK OF BALANCING THE SYSTEM SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING THE WORK.

AFTER SYSTEMS HAVE BEEN TESTED AS OUTLINED, AIR AND WATER FLOW RATES SHALL BE BALANCED, AND CONTROL DEVICES ADJUSTED. BALANCE AND TESTING SHALL NOT BEGIN UNTIL SYSTEMS HAVE BEEN COMPLETED AND ARE IN FULL WORKING ORDER. UPON COMPLETION OF THE BALANCING OPERATION AND PRIOR TO FINAL ACCEPTANCE OF THE SYSTEMS, THE BALANCING FIRM SHALL SUBMIT A REPORT, WITH SIX (6) COPIES, CERTIFYING TO THE PROPER PERFORMANCE OF THE SYSTEM FOR APPROVAL BY THE MECHANICAL ENGINEER.

5.410.4.4 REPORTING. AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.

5.410.4.5 OPERATION AND MAINTENANCE (O&M) MANUAL. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.

5.410.4.5.1 INSPECTIONS AND REPORTS. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.

DIVISION 5.5-ENVIRONMENTAL QUALITY

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30% BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION.

5.504.3 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM.

5.504.4.1 ADHESIVES, SEALANTS AND CAULKS. ADHESIVES, SEALANTS, AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
1. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE, OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLES 5.504.4.1 AND 5.504.4.2. SUCH PRODUCTS ALSO SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS AS SPECIFIED IN SUBSECTION 2, BELOW.
2. AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN ONE POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.

TABLE 5.504.4.1 ADHESIVE VOC LIMIT
LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER

SPECIALTY APPLICATIONS	CURRENT VOC LIMIT
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
SPECIAL PURPOSE CONTACT ADHESIVE	250

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.
2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, HTTP://WWW.ARB.CA.GOV/DRDB/SC/CURHTML/R1168.PDF.

5.504.5.3 FILTERS. IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13. MERV 13 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL. FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INDICATING THE MERV RATING.

EXCEPTIONS:
1. EXISTING MECHANICAL EQUIPMENT.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF CALIFORNIA BUILDING CODE, CCR, TITLE 24, PART 2, SECTIONS 1202 (VENTILATION) AND CHAPTER 14 (EXTERIOR WALLS). FOR ADDITIONAL MEASURES NOT APPLICABLE TO LOW-RISE RESIDENTIAL OCCUPANCIES, SEE SECTION 5.407.2 OF THIS CODE.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF SECTION 120.1 (REQUIREMENTS FOR VENTILATION) OF THE 2022 CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. FOR BUILDINGS OR ADDITIONS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2022 CALIFORNIA ENERGY CODE, SECTION 120.1(C)(4).

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS. INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2.

5.508.1.1 CHLOROFLUOROCARBONS (CFCS). INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN CFCS.

5.508.1.2 HALONS. INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN HALONS.

SECTION 702.1 INSTALLER TRAINING

HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY OR REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY PERFORM HVAC INSTALLATIONS WHEN UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS OR CONTRACTOR LICENSED TO INSTALL HVAC SYSTEMS. EXAMPLES OF ACCEPTABLE HVAC TRAINING AND CERTIFICATION PROGRAMS INCLUDE BUT ARE NOT
LIMITED TO THE FOLLOWING:
1. STATE CERTIFIED APPRENTICESHIP PROGRAMS.
2. PUBLIC UTILITY TRAINING PROGRAMS.
3. TRAINING PROGRAMS SPONSORED BY TRADE, LABOR OR STATE-WIDE ENERGY CONSULTING
OR VERIFICATION ORGANIZATIONS.
4. PROGRAMS SPONSORED BY MANUFACTURING ORGANIZATIONS.
5. OTHER PROGRAMS ACCEPTABLE TO THE ENFORCING AGENCY

MECHANICAL GENERAL NOTES

1 COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING CODES:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC): PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2022 CALIFORNIA BUILDING CODE (CBC): PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC): PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC): PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE (CPC): PART 5, TITLE 24 CCR
2022 CALIFORNIA ENERGY CODE (CENC): PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC): PART 9, TITLE 24 CCR
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN): PART 11, TITLE 24 CCR

REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.

2 THESE DRAWINGS ARE A GENERAL GRAPHIC PRESENTATION OF THE WORK. DUCTWORK, PIPING, AND EQUIPMENT, AS SHOWN, ARE SCHEMATIC. FABRICATE AND INSTALL BASED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER TRADES. ADHERE TO LOCATIONS AS CLOSELY AS POSSIBLE. VARY RUNS OR SHAPE OF DUCTWORK AS REQUIRED TO MEET STRUCTURAL AND OTHER INTERFERENCES AS REQUIRED BY THE ARCHITECT. PROVIDE A COMPLETE SET OF SHOP DRAWINGS REFLECTING ACTUAL DIMENSIONS, ACCESS REQUIREMENTS, AND DETAILS BASED UPON THE ACTUAL EQUIPMENT PROCURED. MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE.

3 THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL ITEMS RELATED TO MECHANICAL SYSTEMS WITH THE WORK OF OTHER TRADES BEFORE PROCEEDING WITH PROCURING OR FABRICATION OF EQUIPMENT, DUCTWORK, PIPING ETC. ITEMS TO BE COORDINATED SHALL INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

GRILLES, REGISTERS AND DIFFUSERS SHALL BE COORDINATED WITH THE REFLECTED CEILING PLAN.

DUCTWORK LOCATIONS AND POTENTIAL INTERFERENCES WITH STRUCTURAL MEMBERS, FRAMING, FIRE SPRINKLER LINES, PLUMBING WASTE LINES, CABLE TRAYS AND CONDUIT.

OPENINGS REQUIRED IN WALLS, FLOORS OR CEILINGS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND/OR FRAMING CONTRACTOR PRIOR TO THE START OF CONSTRUCTION TO AVOID REWORK. ANY REWORK REQUIRED SHALL BE AT NO ADDITIONAL COST TO THE OWNER.

PRIOR TO BIDDING THE PROJECT THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR TO DETERMINE WHO WILL BE RESPONSIBLE FOR PROCURING AND INSTALLING MOTOR STARTERS, CONDUIT FOR LOW VOLTAGE CONTROLS AND LINE VOLTAGE CONTROL DEVICES, SUCH AS SINGLE POLE SWITCHES.

ACCESS TO VOLUME DAMPERS FOR BALANCING. ACCESS TO ALL EQUIPMENT, AS WELL AS PLATFORM AND CURB LOCATIONS.

CONSTRUCTION OF PLATFORMS AND SHAPED RUNNERS OR OTHER MEANS TO MOUNT CURBS LEVEL. ALL PLATFORMS AND CURBS SHALL BE LEVEL UNLESS OTHERWISE NOTED OR DETAILED ON THE MECHANICAL PLANS.

4 REVIEW ALL DRAWINGS AND SPECIFICATIONS INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY QUESTIONS SHALL BE BROUGHT UP, IN WRITING, TO THE ATTENTION OF THE ENGINEER BEFORE THE START OF CONSTRUCTION.

5 ALL EQUIPMENT SHALL BE INSTALLED WITH SUFFICIENT ACCESS TO CONTROLS, FILTERS, ELECTRIC MOTORS, ETC. ACCESS CLEARANCE SHALL BE 30" OR AS REQUIRED BY THE EQUIPMENT MANUFACTURER, WHICH EVER IS GREATER. CONTRACTORS SHALL PROVIDE ACCESS PANELS WHERE REQUIRED. WHERE VERTICAL SPACE ALLOWS, INSTALL DUCTWORK THAT IS IN CLOSE PROXIMITY TO MECHANICAL, ELECTRICAL OR ANY OTHER ITEM THAT REQUIRES ACCESS HIGH IN THE SPACE FOR EASE OF ACCESS.

6 PRIOR TO ROUGH-IN, COORDINATE THE ORIENTATION OF ELECTRICAL BOXES WITH THE DIMENSIONS OF THE DEVICE OR WALL PLATE THAT WILL BE INSTALLED IN OR ON THE ELECTRICAL BOX TO ENSURE THAT THE DEVICE IS CORRECTLY ORIENTED AND THE BOX IS PROPERLY ALIGNED TO BE COVERED BY THE DEVICE OR WALL PLATE.

7 HANDLE, STORE AND INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.

8 BRACE AND SUPPORT PIPES, CONDUIT, AND DUCTWORK IN ACCORDANCE TO SMACNA GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING PIPING SYSTEM.

9 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS, REGISTERS, GRILLES, AND ACCESS PANELS.

10 ALL DUCT DIMENSIONS, AS SHOWN ON MECHANICAL DRAWINGS ARE CLEAR INSIDE DIMENSIONS. INCREASE OUTER DUCT DIMENSION AS REQUIRED TO ACCOUNT FOR THE THICKNESS OF INTERNAL LINING WHERE APPLICABLE.

11 INSULATION AND FLEXIBLE DUCT SHALL COMPLY WITH STATE FIRE MARSHALL CRITERIA AND SHALL NOT EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 PER ASTM-84, NFPA-223, AND UL 723.

12 INSULATE PIPING AND DUCTWORK IN ACCORDANCE TO THE GOVERNING CODES.

13 COMMISSION AND START-UP THE MECHANICAL SYSTEMS TO ASSURE A COMPLETE AND OPERATIONAL HVAC SYSTEM IN ACCORDANCE WITH ASHRAE AND NEBB.

14 ALL SQUARE ELBOWS IN SUPPLY DUCTWORK SHALL HAVE TURNING VANES. PROVIDE MANUAL VOLUME DAMPER AT EACH BRANCH DUCT TAKE-OFF SERVING EACH AIR TERMINAL DEVICE. PROVIDE BALANCING DAMPERS FOR EACH MAIN DUCT TAKE-OFF IN ACCORDANCE TO SMACNA IN ORDER TO ASSURE A COMPLETELY BALANCED SYSTEM.

15 CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE MOUNTED AT THE HEIGHTS GIVEN BY SECTION 11B-308.1 OF THE 2022 CBC. NOTIFY THE ARCHITECT IMMEDIATELY IF THE MOUNTING HEIGHTS REQUIRED BY THE 2022 CBC CANNOT BE OBTAINED AT THE LOCATION WHERE THE CONTROL DEVICE IS SHOWN ON THE MECHANICAL FLOOR PLANS.

16 DUCT SMOKE DETECTORS WHEN NOT PROVIDED PRE-INSTALLED BY THE EQUIPMENT MANUFACTURER SHALL BE INSTALLED IN THE SUPPLY AIR DUCT OF AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CFM. DETECTORS SHALL BE LOCATED BETWEEN THE SUPPLY AIR DUCT CONNECTION AT THE EQUIPMENT AND THE FIRST BRANCH DUCT OR DIFFUSER. WHERE FIRE-DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING, ALL SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS IN AN APPROVED MANNER, AND INSTALLED IN ACCORDANCE WITH NFPA 72 AND THE CALIFORNIA BUILDING AND FIRE CODES.

17 ALL EQUIPMENT SHALL BE LABELED AS TO THE SPACE THEY ARE SERVING.

18 HABITABLE SPACE SHALL BE PROVIDED WITH A HEATING SYSTEM CAPABLE OF MAINTAINING A MINIMUM INDOOR TEMPERATURE OF 68°F AT A POINT 3 FEET ABOVE THE FLOOR PER 2022 CBC 1203.

19 MATERIALS EXPOSED WITHIN ANY SPACE BEING USED AS AN AIR PLENUM SHALL BE NON COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50, WHEN TESTED AS A COMPOSITE PRODUCT IN ACCORDANCE WITH ONE OF THE FOLLOWING TEST METHODS: NFPA 255, METHOD OF TEST OF SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS, ASTM E84, SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS, OR UL 723, TEST FOR SURFACE BURNING CHARACTERISTIC OF BUILDING MATERIALS.

20 ANY MECHANICAL EQUIPMENT THAT PROVIDES POWER TO A ENERGIZED ACCESSORY MUST BE PROVIDED WITH A NAMEPLATE THAT REFLECTS THE ELECTRICAL CHARACTERISTICS OF THE COMPLETE SYSTEM AS INSTALLED WITH THE ENERGIZED ACCESSORY. NO EXCEPTIONS.

MECHANICAL TITLE 24 NOTES

1 HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE LATEST REQUIREMENTS OF THE CA ENERGY EFFICIENCY STANDARDS.

2 HVAC SYSTEMS SHALL MEET THE LATEST CONTROL REQUIREMENTS OF THE CA ENERGY EFFICIENCY STANDARDS.

3 DOORS AND WINDOWS SHALL MEET MINIMUM INFILTRATION REQUIREMENTS OF THE CA ENERGY EFFICIENCY STANDARDS.

4 ALL WORK SHALL BE IN ACCORDANCE WITH CITY AND COUNTY CODES, CALIFORNIA ENERGY CONSERVATION STANDARDS, TITLE - 24, AND ALL OTHER APPLICABLE CODES.

5 ALL PIPING AND DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE LATEST REQUIREMENTS OF THE CA ENERGY EFFICIENCY STANDARDS.

CONTROLS LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
CO2	CO2	CARBON DIOXIDE SENSOR
T/CO2 AC-X	T/CO2	COMBINATION THERMOSTAT AND CARBON DIOXIDE SENSOR. ADJACENT TEXT INDICATES CONTROLLED EQUIPMENT
FSC EF-X	FSC	FAN SPEED CONTROLLER. ADJACENT TEXT INDICATES ASSOCIATED FAN
H		HUMIDISTAT
M		MOTORIZED DAMPER, DAMPER ACTUATOR
PP		PRESSURE PORT
P		PRESSURE SENSOR
S EF-X		SWITCH. ADJACENT TEXT INDICATES CONTROLLED EQUIPMENT
S/H ERV-X	S/H	COMBINATION SWITCH AND HUMIDISTAT. ADJACENT TEXT INDICATES CONTROLLED EQUIPMENT
T AC-#		THERMOSTAT. ADJACENT TEXT INDICATES CONTROLLED EQUIPMENT
TC	TC	TIME CLOCK
TI	TI	TIMER
SCP	SCP	SUPERVISORY CONTROL PANEL
SS	SS	SAFETY SWITCH
TCP	TCP	TEMPERATURE CONTROL PANEL
TS	TS	TEMPERATURE SENSOR
VFD	VFD	VARIABLE FREQUENCY DRIVE
VEXC	VEXC	VEHICLE EXHAUST CONTROL PANEL
		LOW VOLTAGE BY MECHANICAL

MECHANICAL ABBREVIATIONS

AC	AIR CONDITION, AIR CONDITIONING, AIR CONDITIONED
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION
AMB	AMBIENT
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
AHRI	AIR CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS
BDD	BACK DRAFT DAMPER
BOD	BASIS OF DESIGN
BEL	BELOW
BHP	BRAKE HORSE POWER
BLDG	BUILDING
BTUH	BRITISH THERMAL UNIT PER HOUR
CA	COMBUSTION AIR
CD	CONDENSATE DRAIN
CFD	CEILING FIRE DAMPER
CFM	CUBIC FEET PER MINUTE
CONT	CONTINUATION
CSD	CEILING SMOKE DAMPER
DB	DRY BULB TEMPERATURE
DN	DOWN
DSA	DIVISION OF THE STATE ARCHITECT
DTR	DOWN THROUGH ROOF
(E)	EXISTING
EA	EXHAUST AIR
EC	EVAPORATIVE COOLER
EDB	ENTERING DRY BULB TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
ELEC	ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
FA	FROM ABOVE
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FSC	FAN SPEED CONTROLLER
FSD	FIRE/SMOKE DAMPER
GA	GAGE, GAUGE
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
GYP	GYPSUM
HD	HEAD
HP	HORSE POWER
HVI	HOME VENTILATING INSTITUTE
HZ	HERTZ
IDU	INDOOR UNIT
IWC	INCHES OF WATER COLUMN
KW	KILOWATT
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MFGR	MANUFACTURE OR MANUFACTURER
MIN	MINIMUM
MUA	MAKE-UP AIR
(N)	NEW
NL	NOT LISTED
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
ODU	OUTDOOR UNIT
OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
REF	REFRIGERANT, REFRIGERATION
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATION
SHT	SHEET
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SOV	SHUT OFF VALVE
SP	STATIC PRESSURE
SS	STAINLESS STEEL
SSE	STEADY STATE EFFICIENCY
SST	SATURATED SUCTION TEMPERATURE
TEMP	TEMPORARY, TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
TXV	THERMAL EXPANSION VALVE
UON	UNLESS OTHERWISE NOTED
UTR	UP TO OR UP THROUGH ROOF
VD	VOLUME DAMPER
VEX	VEHICLE EXHAUST SYSTEM
VRF	VARIABLE REFRIGERANT VOLUME
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WG	WATER GAUGE
WT	WEIGHT EXPRESSED IN POUNDS

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
Ø	DIA	DIAMETER
		CEILING MOUNTED SUPPLY OR OUTSIDE AIR DIFFUSER
		CEILING MOUNTED RETURN AIR GRILLE
		CEILING MOUNTED EXHAUST AIR GRILLE
		SIDEWALL MOUNTED SUPPLY AIR DIFFUSER, RETURN AIR GRILLE, LOUVER
	24X12, 24X12 FO	RECTANGULAR, FLAT OVAL DUCT
	24X12L, 12ØL	LINED DUCT
		RECTANGULAR SUPPLY / OA, RETURN, EXHAUST / RELIEF DUCT PASSING THROUGH PLAIN OF VIEW
		RECTANGULAR SUPPLY / OA, RETURN, EXHAUST / RELIEF DUCT TURNING DOWN
	12Ø	ROUND DUCT
		ROUND DUCT TURNING DOWN, ROUND DUCT TURNING UP
		90° ELBOW WITH TURNING VAINS
	FC	FLEXIBLE CONNECTION
	VD	MANUAL VOLUME DAMPER
		ACCESS CLEARANCE
		WALL CAP
SF		CEILING EXHAUST FAN
REF REF		REFRIGERATION LINES
		REFRIGERATION ISOLATION VALVE
22x30 MIN AP	AP	ACCESS PANEL. SIZE GIVEN INDICATES MINIMUM SIZE REQUIRED

PROJECT TEAM LIST

TITLE	NAME	DESK NUMBER	EMAIL ADDRESS
PRINCIPAL IN CHARGE	BRIAN STARRETT	805.634.6159	BSTARRETT@EMCOR.NET
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PLUMBING DESIGNER	ELI FERMAN	805.634.8818	EFERMAN@EMCOR.NET
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SHEET INDEX

SHEEET NUMBER	SHEET TITLE
M0.0	MECHANICAL GENERAL
M0.1	MECHANICAL SCHEDULES
M0.2	MECHANICAL DETAILS
M0.3	MECHANICAL DETAILS
M1.0	ZONING PLAN
M2.0	FLOOR PLAN

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7 MECHANICAL GENERAL

ENGINEERING SHEET NO. M0.0

DRN. BY: TO | DES. BY: EF | CK'D. BY: DS

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

April 17, 2026 | SHEET 75 OF 151 | DWG. NO. 2025-D-010

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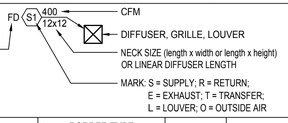
3C Engineering
An EMCOR Company
(805) 540 1363
1590 Fulm St, San Luis Obispo, CA, 93401

REGISTERED PROFESSIONAL ENGINEER BRIAN P. STARRETT M 34068 EXP. 6/30/26 MECHANICAL STATE OF CALIFORNIA

COMMERCIAL GRILLE, REGISTER, DIFFUSER, LOUVER SCHEDULE

FD = FIRE DAMPER
FSD = FIRE/SMOKE DAMPER
OAI = OUTSIDE AIR INTAKE
X"Ø = INLET SIZE (IF APPLICABLE)



CEILING SUPPLY DEFLECTION LEGEND (EXCEPT FOR 4-WAY DEFLECTION, SHADING INDICATES ACTIVE SECTION OF DIFFUSER)

4-WAY | 3-WAY | 2-WAY CORNER | 2-WAY OPPOSITE | 1-WAY

TAG	TYPE	MAKE	MODEL	BORDER TYPE		CONSTRUCTION	FINISH	IMAGE	REMARKS	INSTALLATION DETAIL
				GYP BOARD CEILING OR WALL	LAY-IN CEILING					
L1	4" WALL LOUVER	GREENHECK	ESJ-401	PROVIDE WITH 1-1/2" FLANGE ACCESSORY		ALUMINUM	PRIMER		PROVIDE WITH BIRD SCREEN WHEN USED FOR OUTSIDE AIR INTAKE OR EXHAUST AIR DISCHARGE. PROVIDE WITH INSECT SCREEN WHEN USED FOR COMBUSTION AIR. PAINT PER ARCHITECTURAL REQUIREMENTS	NA
L2	4" COMBINATION WALL LOUVER/DAMPER	GREENHECK	EACC-401	PROVIDE WITH 1-1/2" FLANGE ACCESSORY		ALUMINUM	PRIMER		PROVIDE WITH 120V POWER OPEN / FAIL CLOSE ACTUATOR. ACTUATOR SHALL BE ACCESSIBLE FROM THE INTERIOR. PROVIDE WITH FILTER RACK WITH 1" ALUMINUM FILTERS. PROVIDE WITH 316 SS AXLE. PROVIDE WITH BIRD SCREEN. PAINT PER ARCHITECTURAL REQUIREMENTS	NA

VEHICLE EXHAUST SYSTEM SCHEDULE

TAG	MAKE	MODEL	QTY	DESCRIPTION	COMMENTS	OPERATING WEIGHT LBS	INSTALLATION DETAIL
VEXF 1	PLYMOVENT	TEV-559	1	EXHAUST FAN, DIRECT DRIVE, EPOXY POWDER COAT FINISH, 208/3/60, 13.3 FLA, TEFC 5 HP MOTOR. COMPLETE WITH SAF-5 SOUND ABSORBING FAN ENCLOSURE.	PROVIDE WITH 10" DIAMETER ALAN ITEM #1481 SILENCER AND UP-BLAST STACK CAP (WEATHER HOOD)..	480	8/M0.2
VEXC 1	PLYMOVENT	OS-3	1	EXHAUST FAN CONTROL PANEL, 16X12X6-1/2", AUTOMATIC / MANUAL / STOP MODES. COMPLETE WITH PRESSURE SENSORS FOR FAN ACTIVATION WHEN VEHICLE ENGINE STARTS, MOTOR STARTER AND ADJUSTABLE TIMER.	MOUNT CONTROL PANEL ON WALL AT 48" AFF, REFER TO FLOOR PLAN FOR LOCATION. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND LINE VOLTAGE WIRING TO THE CONTROL PANEL AND FROM THE CONTROL PANEL TO THE EXHAUST FAN.	NA	NA
VEXI 1	UAS	SFR	1	FILTER HOUSING, SIZE B, 1X1, (1)24X24X2 30% PRE-FILTER, (1)24X24X12 85% FINAL FILTER	PROVIDE 36" OF STRAIGHT DUCT ON THE INLET SIDE OF THE FILTER HOUSING	105	8/M0.2
VEXR 1	PLYMOVENT	VSRX-75	1	STRAIGHT RAIL FOR DRIVE THRU APPARATUS BAY, (1) VEHICLE, 75' LONG, (7) RAIL UPRIGHTS. COMPLETE WITH CRAB ASSEMBLY AND AUTO-CRAB RETURN, BALANCER, SADDLE AND HOSE LOOP FOR 20' LONG, 4Ø HOSE, AND MAGNETIC TAILPIECE ADAPTER.	ELECTRICAL CONTRACTOR SHALL PROVIDE 120V/15A RECEPTACLE ON LAST RAIL UPRIGHT CLOSEST TO THE ENTRY SIDE OF THE BAY PER RAIL, MAX 48" ABOVE THE RAIL, REFER TO INSTALLATION DETAILS.	665	6/M0.2, 7/M0.2
VEXR 2	PLYMOVENT	VSRX-85	1	STRAIGHT RAIL FOR DRIVE THRU APPARATUS BAY, (1) VEHICLE, 85' LONG, (8) RAIL UPRIGHTS. COMPLETE WITH CRAB ASSEMBLY AND AUTO-CRAB RETURN, BALANCER, SADDLE AND HOSE LOOP FOR 20' LONG, 4Ø HOSE, AND MAGNETIC TAILPIECE ADAPTER.		745	6/M0.2, 7/M0.2
VEXR 3	PLYMOVENT	VSRX-75	1	STRAIGHT RAIL FOR DRIVE THRU APPARATUS BAY, (1) VEHICLE, 75' LONG, (7) RAIL UPRIGHTS. COMPLETE WITH CRAB ASSEMBLY AND AUTO-CRAB RETURN, BALANCER, SADDLE AND HOSE LOOP FOR 20' LONG, 4Ø HOSE, AND MAGNETIC TAILPIECE ADAPTER.		665	6/M0.2, 7/M0.2

VEHICLE EXHAUST SYSTEM MAJOR COMPONENTS ARE LISTED ABOVE. THIS LIST IS PROVIDED FOR COORDINATION BETWEEN THE VARIOUS DISCIPLINES AND DOES NOT REFLECT ALL OF THE COMPONENTS REQUIRED FOR A COMPLETE SYSTEM.

THE VEHICLE EXHAUST SYSTEM (VEX SYSTEM) SHALL BE PROVIDED UNDER THIS CONTRACT BY AN AUTHORIZED PLYMOVENT CONTRACTOR (VEX CONTRACTOR). THE GENERAL CONTRACTOR SHALL DIRECTLY HIRE THE VEX CONTRACTOR TO INSTALL THE VEX SYSTEM. THE GENERAL CONTRACTOR SHALL COOPERATE AND COORDINATE WITH THE VEX CONTRACTOR TO PROVIDE THE SUPPORT INFRASTRUCTURE NECESSARY TO PROVIDE A COMPLETE SYSTEM. VEX CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL SYSTEM INCLUDING BUT NOT LIMITED TO ALL SUPPORTS, DUCTING, COMPRESSED AIR TUBING AND FITTINGS, VEHICLE TAILPIPE ADAPTERS AND SYSTEM START-UP.

FOR PRICING AND INSTALLATION CONTACT:
AIR EXCHANGE INC.
JOHN WHITNEY
1-909-923-7952
JOHN.WHITNEY@AIREXCHANGE.COM

DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE

TAG	MAKE	NOM TONS	SENSIBLE COOLING	REFRIGERANT	AHRI PERFORMANCE						INDOOR UNIT						OUTDOOR UNIT						REMARKS SEE BELOW
					COOLING			HEATING																
					BTUH	SEER2	EER2	BTUH AT 47°F	BTUH AT 17°F	HSPF2	MODEL	INSTALLATION TYPE	POWERED BY OUTDOOR UNIT	CFM	WATTS [HP]	OPERATING WEIGHT LBS	INSTALLATION DETAIL	MODEL	POWER V/ϕ/HZ	MCA	MOCP	OPERATING WEIGHT LBS	INSTALLATION DETAIL	
DS 1	TOSHIBA CARRIER	1.5	13,610	R-454B	18,000	23.8	12	20,000	12,500	10.4	RAV-HB181KRTP	HIGHWALL	YES	530	30	35	2/M0.2	RAV-BP181AT2P	208/1/60	14	25	85	1/M0.2	C1

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
B. UNIT SHALL BE CONFIGURED FOR COOLING ONLY.
C. SIZE REFRIGERATION LINES PER THE MANUFACTURERS REQUIREMENTS FOR TOTAL DEVELOPED LINE LENGTH.

CONTROL NOTES:
C1. PROVIDE WITH MANUFACTURERS MODEL RBC-AMS54E-UL 7-DAY PROGRAMMABLE WIRED CONTROLLER.

EXHAUST FAN SCHEDULE

TAG	MAKE	MODEL	TYPE	DRIVE	PERFORMANCE					MOTOR		ACCESSORIES						OPERATING WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
					CFM	ESP	RPM	OPERATING POWER WATTS [BHP]	SONES	POWER V/ϕ/HZ	NOM HP	BIRD GUARD	BACKDRAFT DAMPER	ROOF CURB	ROOF JACK	WALL CAP	FSC			
EF 1	GREENHECK	CUBE-220	WALL UPBLAST	BELT	3,000	0.25	504	[0.34]	7.16	120/1/60	0.5	YES	YES	NO	NO	NO	NO	140	1,C1	4/M0.2
EF 2	GREENHECK	CUBE-220	WALL UPBLAST	BELT	5,000	0.125	688	[0.79]	13.9	120/1/60	1.5	YES	YES	NO	NO	NO	NO	155	1,C1,C2	4/M0.2

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. PROVIDE WITH MANUFACTURER'S NEMA-1 ENCLOSURE DISCONNECT SWITCH.

UNIT SPECIFIC NOTES:
1. PROVIDE WITH MANUFACTURER'S WALL BRACKET FOR Z-PERLIN MOUNTING.

CONTROL NOTES:
C1. CONTROL WITH ON/OFF SWITCH, REFER TO FLOOR PLAN FOR LOCATION. SWITCH PROVIDED BY ELECTRICAL.
C2. EXHAUST FAN SHALL BE INTERLOCKED WITH THE MOTORIZED DAMPER IN THE ROOM'S LOUVER(S) TO ACTIVATE THE DAMPER WHEN THE FAN IS ENERGIZED, REFER TO DETAIL 5/M0.2. SEE FLOOR PLAN FOR THE MOTORIZED DAMPER LOCATION.

ELECTRIC UNIT HEATER SCHEDULE

TAG	MAKE	MODEL	KW	CFM	INSTALLATION HEIGHT	THROW	HP	POWER V/ϕ/HZ	FLA	WEIGHT [LBS]	REMARKS SEE BELOW	INSTALLATION DETAIL
EUH 1	REZNOR	EUH-15	15	1215	12'	27'	0.07	208/3/60	31.2	85	C1	1/M0.3
EUH 2	REZNOR	EUH-15	15	1215	12'	27'	0.07	208/3/60	31.2	85	C1	1/M0.3

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
B. PROVIDE WITH AK-20 FACTORY-INSTALLED OPTION FOR 208/3/60 VOLTAGE.

CONTROL NOTES:
C1. PROVIDE WITH HONEYWELL MODEL TH8321WF1001 VISION PRO WI-FI CAPABLE PROGRAMMABLE THERMOSTAT. EUH-1 & EUH-2 SHALL BE TIED TOGETHER TO A SINGLE THERMOSTAT, SEE FLOOR PLANS FOR LOCATION.

CIRCULATION FAN SCHEDULE

TAG	MAKE	MODEL	BLADES	SIZE	RPM	FINISH	ELECTRICAL DATA		WEIGHT LBS	REMARKS
							POWER V/ϕ/HZ	HP		
CF 1	GREENHECK	DC-5-10	5	10'	140	SILVER WITH BLACK TRIM	120/1/60	1/4	80	1

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. PROVIDE WITH MANUFACTURER'S I-BEAM MOUNTING KIT FOR I-BEAM MOUNTING. INSTALL PER MANUFACTURER'S REQUIREMENTS.
B. BASIS OF DESIGN IS AS SCHEDULED. GREENHECK AND PATTERSON ARE CONSIDERED EQUAL.

UNIT SPECIFIC NOTES:
1. CONTROL WITH SINGLE POLE SWITCH, REFER TO FLOOR PLAN FOR LOCATION. SWITCH PROVIDED BY ELECTRICAL.

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REGISTERED PROFESSIONAL ENGINEER — BRITTAN P. STARRATT — M 34068 — EXP. 6/30/26 — MECHANICAL — STATE OF CALIFORNIA

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7 MECHANICAL SCHEDULES

ENGINEERING SHEET NO. M0.1

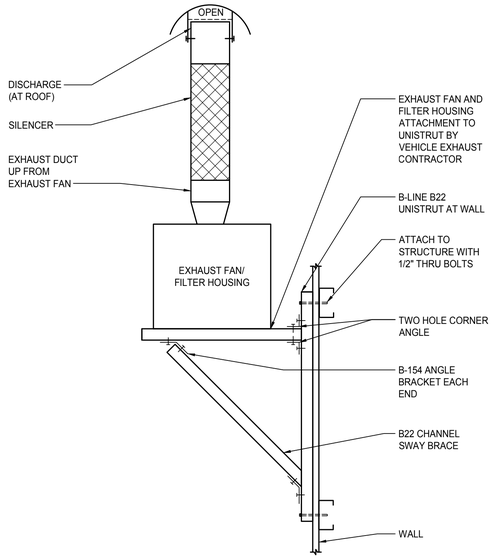
DRN. BY: TO | DES. BY: EF | CK'D. BY: DS

5 May 2026
PRINCIPAL ENGINEER DATE

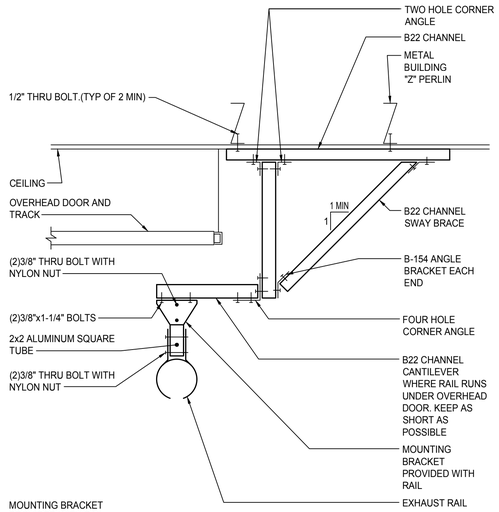
5/7/2026
CITY ENGINEER DATE

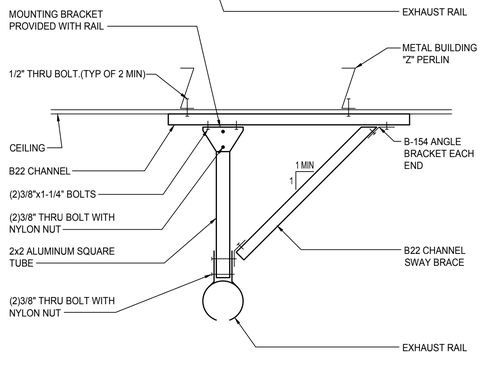
SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

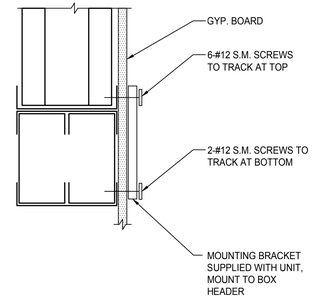
April 17, 2026 | SHEET 76 OF 151 | DWG. NO. 2025-D-010



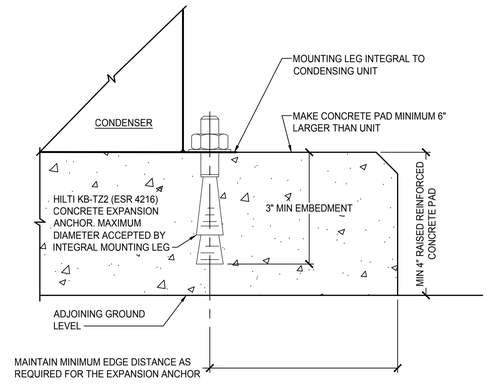
ELEVATION VIEW



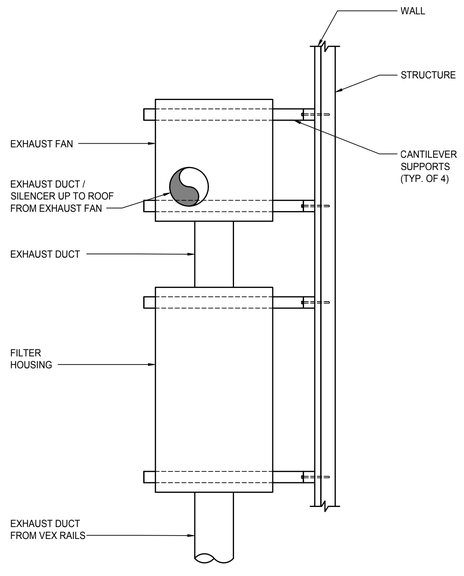




3 BOX BEAM FOR MOUNTING BRACKET SUPPORT
NTS

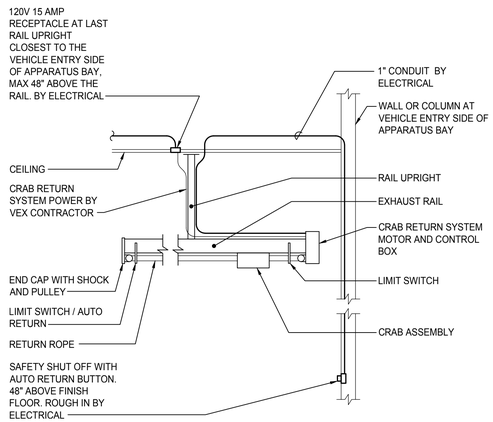


1 CONDENSING UNIT ANCHORAGE
NTS

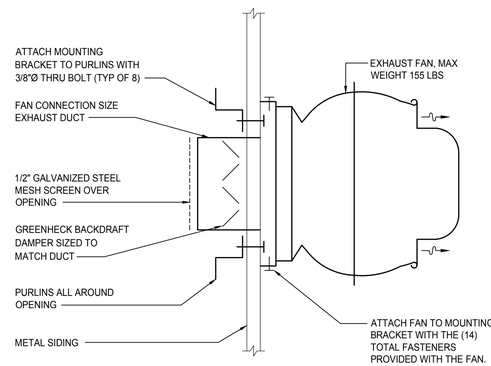


PLAN VIEW

8 VEX EXHAUST FAN ON CANTILEVER SUPPORT
NTS

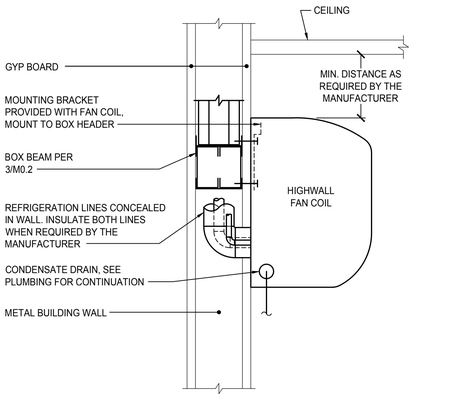


7 VEX AUTO CRAB RETURN
NTS



5 FAN INTERLOCK WITH DAMPER CONTROL DETAIL
NTS

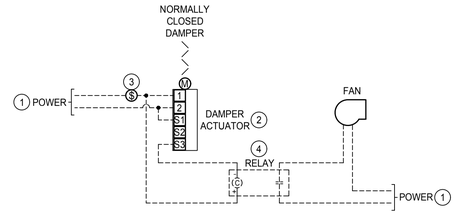
4 SIDEWALL EXHAUST FAN
NTS



2 HIGH WALL FAN COIL MOUNTING (METAL FRAMING)
NTS

DETAIL NOTES

1	LINE VOLTAGE PROVIDED BY ELECTRICAL.
2	DAMPER ACTUATOR PROVIDED BY MECHANICAL. SET THE ADJUSTABLE AUXILIARY SWITCH TO "1" TO ACTIVATE S1 AND S3 CLOSURE WHEN DAMPER IS FULLY OPENED TO ENSURE THE EXHAUST FAN ENERGIZES AFTER DAMPER IS OPEN.
3	LINE VOLTAGE THERMOSTAT AS SPECIFIED IN THE EXHAUST FAN SCHEDULE OR SINGLE POLE, MAINTAINED ON/OFF TOGGLE SWITCH PROVIDED BY ELECTRICAL.
4	APPROPRIATELY SIZED 120VAC RELAY PROVIDED BY ELECTRICAL. MOUNT RELAY WITHIN THE ACTUATOR HOUSING AT THE LOUVER.



REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7 MECHANICAL DETAILS

DRN. BY: TO	DES. BY: EF	CK'D. BY: DS

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

April 17, 2026 | SHEET 77 OF151 | DWG. NO. 2025-D-010

ENGINEERING SHEET NO. M0.2

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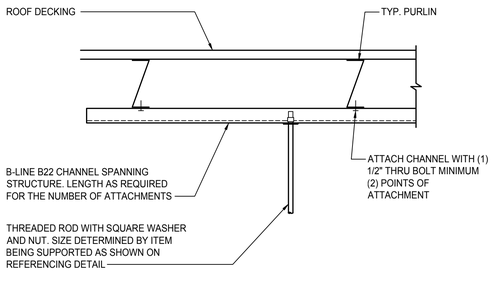
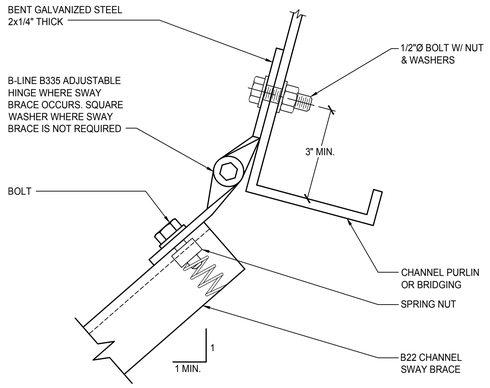
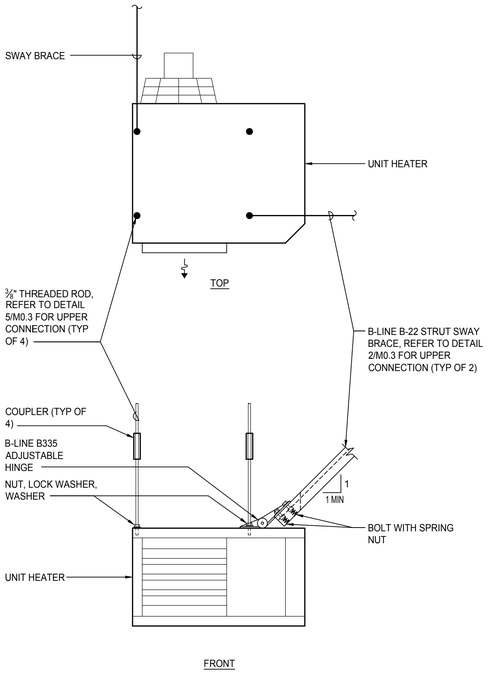
REGISTERED PROFESSIONAL ENGINEER BRIAN P. STARRETT M 34068 EXP. 6/30/26 MECHANICAL STATE OF CALIFORNIA

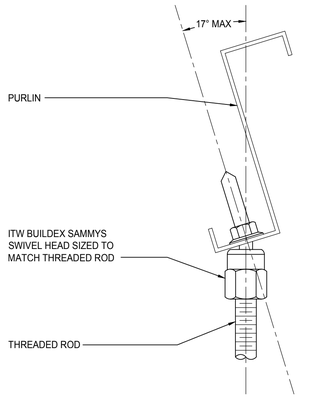


5 UPPER THREADED ROD CONNECTION
NTS



2 UPPER CONNECTION (SWAY BRACE)
NTS





3 THREADED ROD UPPER CONNECTION
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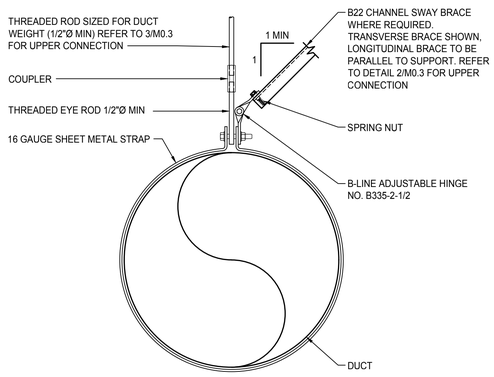

4 EXPOSED DUCT HANGER
NTS

1 SUSPENDED ELECTRIC UNIT HEATER
NTS

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ENGINEERING SHEET NO. M0.3

REGISTERED PROFESSIONAL ENGINEER — BRIAN P. STARNES — M 34068 — EXP. 8/30/26 — MECHANICAL — STATE OF CALIFORNIA

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7 MECHANICAL DETAILS

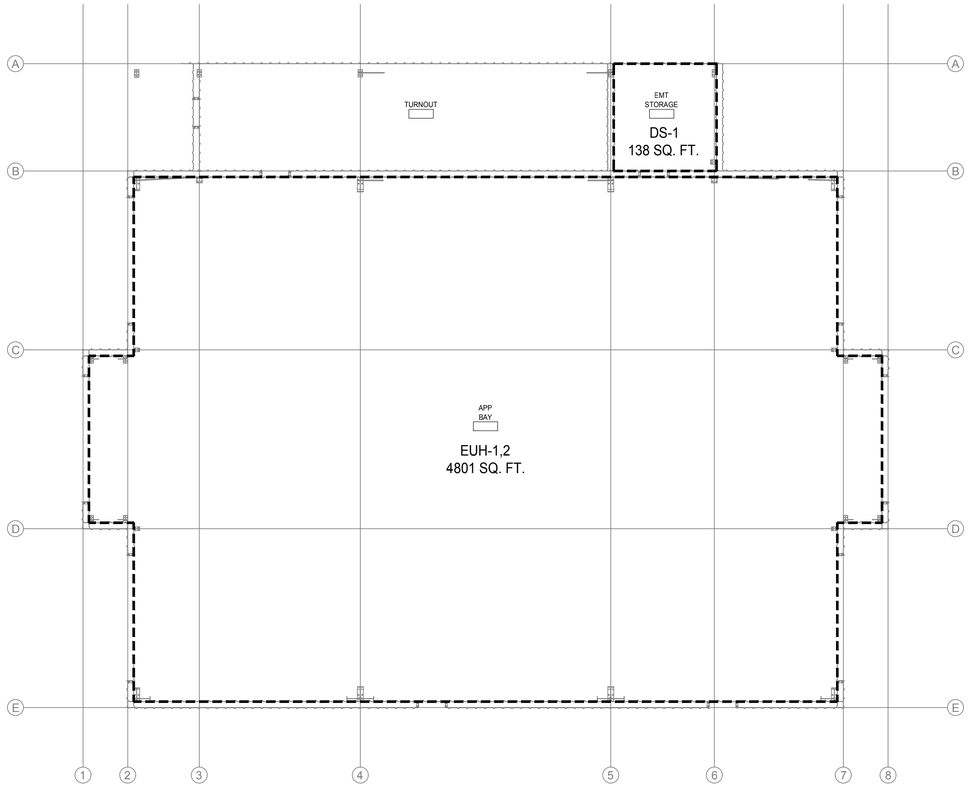
DRN. BY: TO | DES. BY: EF | CK'D. BY: DS

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

April 17, 2026 | SHEET 78 OF 151 | DWG. NO. 2025-D-010



ZONING PLAN

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

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REGISTERED PROFESSIONAL ENGINEER
CHRISTIAN P. STARKEY
M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
ZONING PLAN

ENGINEERING SHEET NO. M1.0

DRN. BY: TO	DES. BY: EF	CK'D. BY: DS

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

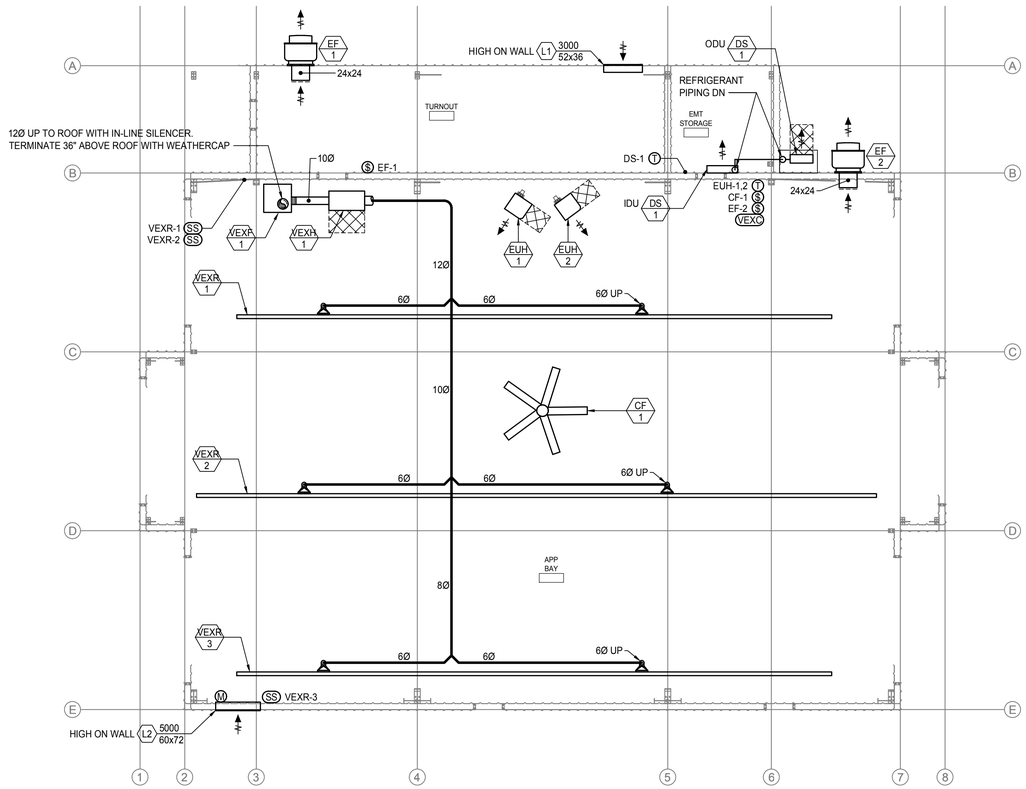
SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

April 17, 2026 | SHEET 79 OF 151 | DWG. NO. 2025-D-010

HVAC GENERAL NOTES

APPLICABLE TO THIS SHEET ONLY

1	VERIFY FINAL THERMOSTAT LOCATIONS WITH OWNER PRIOR TO INSTALLATION. IF OWNER INTENDS TO CHANGE LOCATION OF THERMOSTAT, CONTACT ENGINEER OF RECORD PRIOR TO FINALIZING LOCATION.
2	REFER TO DETAIL 4/M0.3 FOR EXPOSED DUCT SUPPORT.



FLOOR PLAN

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

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

FLOOR PLAN

ENGINEERING SHEET NO. M2.0

DRN. BY: TO | DES. BY: EF | CK'D. BY: DS

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

April 17, 2026 | SHEET 80 OF151 | DWG. NO. 2025-D-010

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3C Engineering
An EMCOR Company
(805) 540 1363
1500 Palm St, San Luis Obispo, CA, 93401

REGISTERED PROFESSIONAL ENGINEER BRIAN P. STARKEY M 34068 EXP. 8/30/26 MECHANICAL STATE OF CALIFORNIA

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 6 of 16)**

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

COMPLIES[3]

Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	2.24	3.56	-1.32
Space Cooling	0.08	1.11	-1.03
Indoor Fans	5.25	1.87	3.38
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	1.05	0.07	0.98
Indoor Lighting	0.18	0.18	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**8.8**	**6.79**	**2.01 (22.8%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**8.8**	**6.79**	**2.01 (22.8%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 3 of 16)**

C1. COMPLIANCE SUMMARY

COMPLIES[3]

	Time Dependent Valuaton (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft² - yr)	**Total[2] (kBtu/ft² - yr)**	**Total[2] (kBtu/ft² - yr)**
Standard Design	77.58	77.58	8.8
Proposed Design	73.47	73.47	6.79
Compliance Margins	**4.11**	**4.11**	**2.01**
	Pass	**Pass**	**Pass**

[1] Efficiency measures include improvements like a better building envelope and more efficient equipment
[2] Compliance Totals include efficiency, photovoltaics and batteries
[3] New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded
Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded

PROJECT TEAM LIST

TITLE	NAME	DESK NUMBER	EMAIL ADDRESS
PRINCIPAL IN CHARGE	BRIAN STARRETT	805.634.6159	BSTARRETT@EMCOR.NET
PROJECT MANAGER	DENVER STANGER	805.634.8711	DSTANGER@EMCOR.NET
MECHANICAL DESIGNER	DREW SCHMIDT	805.634.8753	DSCHMIDT@EMCOR.NET
PLUMBING DESIGNER	ELI FERMAN	805.634.8818	EFERMAN@EMCOR.NET
ENERGY COMPLIANCE	JORGE BRAVO	805.595.0894	JBRAVOANGELES@EMCOR.NET

SHEET INDEX

SHEET NUMBER	SHEET TITLE
T24.0	ENERGY COMPLIANCE DOCUMENTATION
T24.1	ENERGY COMPLIANCE DOCUMENTATION

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 7 of 16)**

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Receptacle	0.51	0.51	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**9.31**	**7.3**	**2.01 (21.6%)**

[1] Notes: This table is not used for Energy Code Compliance.

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 4 of 16)**

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

COMPLIES[2]

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	15.22	23.76	-8.54
Space Cooling	2.38	26.87	-24.49
Indoor Fans	54.75	19.68	35.07
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	2.91	0.84	2.07
Indoor Lighting	2.32	2.32	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**77.58**	**73.47**	**4.11 (5.3%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**77.58**	**73.47**	**4.11 (5.3%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 1 of 16)**

Project Name: **Ventura FS7 Interim** **Date Prepared:** **2026-04-16**

A. General Information

1	Project Name	Ventura FS7 Interim			
2	Run Title	Title 24 Analysis			
3	Project Location	2269 Alessandro Drive, Ventura 93001			
4	City	Ventura	5	Standards Version	Compliance 2022
6	Zip code	93001	7	Compliance Software (version)	EnergyPro 9.4
8	Climate Zone	6	9	Building Orientation (deg)	182
10	Building Type(s)	• Nonresidential	11	Weather File	OXNARD_STYP20.epw
12	Project Scope	• New envelope and mechanical	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	5710	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	5710	19	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 8 of 16)**

C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	3	4.3	-1.3	---	---	---
Space Cooling	0.4	5.9	-5.5	---	---	---
Indoor Fans	11	3.9	7.1	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	---	0.2	---	6.5	---	---
Indoor Lighting	0.5	0.5	0	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**14.9**	**14.8**	**0.1**	**6.5**	**0**	**6.5**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**14.9**	**14.8**	**0.1**	**6.5**	**0**	**6.5**
Receptacle	1.6	1.6	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**16.5**	**16.4**	**0.1**	**6.5**	**0**	**6.5**

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 5 of 16)**

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	7.14	7.14	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**84.72**	**80.61**	**4.11 (4.9%)**

[1] Notes: This table is not used for Energy Code Compliance.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 2 of 16)**

B. PROJECT SUMMARY

Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance						Building Components Complying Prescriptively	
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐	Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
	MultiFam	Not Included		☒	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒	Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Performance	Covered Process: Laboratory Exhaust (see Table J)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Not Included	Photovoltaics (see Table F)	☐	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		☒	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐	Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7 ENERGY COMPLIANCE DOCUMENTATION

DRN. BY: TO | DES. BY: EF | CK'D. BY: DS

PRINCIPAL ENGINEER — 5 May 2026 — DATE

CITY ENGINEER — 5/7/2026 — DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

April 17, 2026 | SHEET 81 OF151 | DWG. NO. 2025-D-010

ENGINEERING SHEET NO. T24.0

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REGISTERED PROFESSIONAL ENGINEER BRIAN P. STARRETT M 34068 EXP. 6/30/26 MECHANICAL STATE OF CALIFORNIA

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-E - For all buildings with Plumbing Systems

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction. Lighting controls and mechanical NRCAs must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component[1]	Form/Title & System Name(s)
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	EUH-1 and EUH-2., DS-1
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC
	EUH-1 and EUH-2., DS-1

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

Documentation Author's Declaration Statement

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

Documentation Author Name: Jorge Bravo	Documentation Author Signature:
Company: EMCOR Services Mesa Energy Systems	Signature Date: 2026-04-16
Address: 1500 Palm St.	CEA/HERS Certification Identification (if applicable):
City/State/Zip: , San Luis Obispo, CA 93401	Phone: 805-540-3363

Responsible Person's Declaration statement

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

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name: Michael Scott	Responsible Designer Signature:	
Company: RRM Design Group		
Address: 3765 S Higuera St	Date Signed:	
City/State/Zip: San Luis Obispo, CA 93401	License #:	
Phone: 805-543-1794	Title:	Scope:
Responsible Designer Name: Brian Starrett	Responsible Designer Signature:	
Company: 3C Engineering, Inc.		
Address: 1500 Palm St.	Date Signed: 2026-04-16	
City/State/Zip: San Luis Obispo, CA 93401	License #: M 34068	
Phone: 805-540-3363	Title:	Scope:

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method[3]	Assembly Method	Area (ft²)	Overall U-factor	Overall SHGC	Overall VT	Status[2]
R-18.3 Metal Door	Vertical fenestration Glazed door N/A	NFRC	Manufactured	1,176	0.06	0.5	0.5	N

[1] Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
[2] Status: N - New, A - Altered, E - Existing

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
EUH-1	Single Zone Air Conditioner (SZAC) Air System	1	51.18	0	N/A	Electric Resistance	0	N/A	NA	No Economizer	N
EUH-2	Single Zone Air Conditioner (SZAC) Air System	1	51.18	0	N/A	Electric Resistance	0	N/A	NA	No Economizer	N
DS-1	Single Zone Heat Pump	1	20	0	HSPF2	10.4	18	EER2 SEER2	12 23.8	N/A	N

[1] Status: N - New, A - Altered, E - Existing

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
			Supply Fan				Return / Relief Fan					
Name or Item Tag	Qty	Design OA CFM	CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	Status[1]
EUH-1	1	0	1,215	0.07	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
EUH-2	1	0	1,215	0.07	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
DS-1	1	0	530	0.03	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] Status: N - New, A - Altered, E - Existing

H5. GENERAL EXHAUST FAN SUMMARY

01	02	03	04	05	06	07	08
System ID	Zone Name	Qty	CFM	Power	Power Units	Continuous Operation?	Status[1]
(APP BAY) General Storage3-EF	1-(APP BAY) General Storage	1	2500	0.4	BHP	No	N
(APP BAY) General Storage37-EF	2-(APP BAY) General Storage	1	2500	0.4	BHP	No	N

[1] Status: N - New, A - Altered, E - Existing

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n)[1]	Other Special Features and Controls
WH-11 - SHW	Service Hot Water	N/A	Fixed Temperature Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.
[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
	Mechanical Ventilation					
Zone Name	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
1-(APP BAY) General Storage	NA General - Unoccupied	2.88	0	2500	3066	N/A
2-(APP BAY) General Storage	NA	0	0	2500	2490	N/A
3-(EMT) General Storage	NA	0	0	0	154	N/A

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
			Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
System ID	System Type	Qty	Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
1-(APP BAY) General Storage-Trm	Uncontrolled	1	N/A	N/A	1,215	N/A	0	N/A	N/A	N/A	☐
2-(APP BAY) General Storage-Trm	Uncontrolled	1	N/A	N/A	1,215	N/A	0	N/A	N/A	N/A	☐
DS-1	Single Zone Heat Pump	1	20	18	530	N/A	N/A	0.03	BHP	Cycling	☐

I1. WATER HEATER EQUIPMENT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input	Rated Input Unit	Efficiency	Efficiency Unit	Tank Insulation R-value Int/Ext	Standby Loss Fraction	1st Hr. Rating or Flow Rate (gal)	Heat Pump Type	Tank Location or Ambient Condition
A.O. Smith DVE-1202	Electricity	Storage	1	32	2.88	kW	0.92	UEF	N/A	N/A	0	N/A	N/A

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	11	9.8	1.2	10.91
NET EUI[1]	11	9.8	1.2	10.91

[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

D1. EXCEPTIONAL CONDITIONS

• The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.
• The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.
• PV/Battery Building Type has been modified from software defaults for one or more spaces. Review project's PV/Battery Building Type(s) with documentation author. Refer to Energy Code section 140.10 for Nonresidential or 170.2(g) for more information.

E4. ADDITIONAL REMARKS

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

WH-1 (AO Smith DVE-120) serving app bay is modeled at 16% of its capacity. Remainder of the percentage is serving the modular building under a separate permit.

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	1350	588	43.56
East-Facing[2]	1578	0	0
South-Facing[3]	1350	588	43.56
West-Facing[4]	1628	0	0
Total	**5906**	**1176**	**19.91**
Roof	5710	0	0

Notes
[1]North-Facing is oriented to within 45 degrees of true north, including 4500'00" east of north (NE), but excluding 4500'00" west of north (NW),
[2]East-Facing is oriented to within 45 degrees of true east, including 4500'00" south of east (SE), but excluding 4500'00" north of east (NE),
[3]South-Facing is oriented to within 45 degrees of true south, including 4500'00" west of south (SW), but excluding 4500'00" east of south (SE),
[4]West-Facing is oriented to within 45 degrees of true west, including 4500'00" north of west (NW), but excluding 4500'00" south of west (SW),

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	Air Barrier
Com-Floor 1	No air barrier

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
					Continuous R-Value					
Surface Name	Construction Type	Area (ft²)	Framing Type	Cavity R-Value	Interior	Exterior	Units	Value	Description of Assembly Layers	Status[1]
Metal Building Roof R29 N9	Roof	5,710	Metal	29	N/A	N/A	U-factor	0.0766	Metal Standing Seam - 1/16 in. Composite-1 Composite-2	N
R13 Ext. Wall12	Exterior Wall	5,906	N/A	13	N/A	N/A	U-factor	0.113	Metal Siding - 1/16 in. Composite-3	N
Interior Wall at Turnout30	Interior Wall	1,050	N/A	0	N/A	N/A	U-factor	0.7353	Metal Siding - 1/16 in. Composite-4	N
Slab On Grade32	Underground Floor	5,710	N/A	0	N/A	N/A	F-factor	0.73	Slab Type =Unheated slab on grade Insulation Orientation =None Insulation R-Value =none	N

[1] Status: N - New, A - Altered, E - Existing

G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

01	02	03	04
Assembly Name	Area (ft²)	Overall U-factor	Status[1]
Metal Door22	40	0.7	N

[1] Status: N - New, A - Altered, E - Existing

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REGISTERED PROFESSIONAL ENGINEER BRENDAN P. STARRETT M 34068 EXP. 6/30/26 MECHANICAL STATE OF CALIFORNIA

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7 ENERGY COMPLIANCE DOCUMENTATION

ENGINEERING SHEET NO. T24.1

DRN. BY: TO | DES. BY: EF | CK'D. BY: DS

PRINCIPAL ENGINEER 5 May 2026 DATE

CITY ENGINEER 5/7/2026 DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

April 17, 2026 | SHEET 82 OF151 | DWG. NO. 2025-D-010

CIRCULATION PUMP SCHEDULE

TAG	MAKE	MODEL	MOTOR TYPE	GPM	INLET WATER TEMP °F	ELECTRICAL DATA		OPERATING WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
						POWER V/ϕ/HZ	WATTS			
CP 1	BELL & GOSSETT	e3-6	ECM	6	110	120/1/60	27	10	NA	NA

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. DISCONNECT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
B. PROVIDE WITH VARIO MOTOR CONTROL, BRASS HOUSING, ULTRACIRC UNION CONNECTIONS, 6FT ELECTRICAL CORD WITH PLUG, ADJUSTABLE THERMOSTAT AND TIMER.
C. 120 VOLT RECEPTACLE PROVIDED BY ELECTRICAL CONTRACTOR. CONTRACTOR SHALL REVIEW OWNERS MANUAL OF EQUIPMENT PRIOR TO INSTALLATION OF RECEPTACLE FOR PROPER OUTLET RATING.

ELECTRIC STORAGE WATER HEATER SCHEDULE

TAG	MAKE	MODEL	STORAGE GALLONS	DIMENSIONS WIDTH" X HEIGHT"	PIPING CONNECTIONS	SET TEMP °F	INSTALLATION LOCATION	ELECTRICAL DATA		OPERATING WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
								POWER V/ϕ/HZ	WATTS			
WH 1	AO-SMITH	DVE-120	119	35x62-1/4x29-1/2	1-1/4"	120	TURNOUT	208/3/60	18000	1380	1	1/P0.2

NOTES: 1. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.

AIR COMPRESSOR

TAG	MAKE	MODEL	DIMENSIONS	CFM	PSI	ELECTRICAL		TYPE	TANK SIZE (GALLONS)	APPROX SHIPPING WEIGHT (LBS)	REMARKS SEE BELOW	INSTALLATION DETAIL
						POWER V/ϕ/HZ	HP					
AC 1	GARDNER DENVER	VR5-8	35x27x75	21.0	125	208/1/60	5	RECIRC	80	590	1, 2	6/P0.1

NOTES: 1. PROVIDE WITH ACCESSORIES; GARDNER DENVER FILTER #FIL14-13 AND TRI-STAR REGULATOR #R354G.
2. PROVIDE WITH MANUFACTURERS VIBRATION ISOLATION PACKAGE.
3. PROVIDE WITHOUT AUTO-DRAIN VALVE.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	ACCESSIBLE	MANUFACTURER	MODEL	BRANCH PIPE SIZE				ELECTRICAL V/ϕ/HZ	INSTALL DETAILS	REMARKS
					W	V	CW	HW			
FD-1	FLOOR DRAIN ROUND STRAINER	N/A	JR SMITH	2005Y	2"	1-1/2"	1/2"	NA	NA	4/P0.1	5"Ø, HEEL PROOF NICKEL BRONZE STRAINER WITH VANDAL PROOF SCREWS, CAST IRON BODY. PROVIDE "P" TRAP WITH TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK HALF GATE	N/A	JR SMITH	3450	2"	1-1/2"	1/2"	NA	NA	4/P0.1	ENAMELED CAST IRON, HALF GRATE. PROVIDE "P" TRAP WITH TRAP PRIMER CONNECTION.
HB-1	HOSE BIBB WALL MOUNT	N/A	WOODFORD	24	NA	NA	3/4"	NA	NA	-	CHROME FINISH, PROVIDE WITH LOOSE TEE KEY.
S-1	SINK CLEAN UP	N/A	WICKETTS - BOWL	WCS-4124	2"	1-1/2"	1/2"	1/2"	BATTERY	-	24x24x14 BOWL, 8" BACK SPLASH, 316 SS CONSTRUCTION. PROVIDE WITH SINGLE FAUCET HOLE CENTERED OVER THE SINK BASIN. 8" GOOSENECK BATTERY OPERATED SENSOR FAUCET W/ HYDROELECTRIC GENERATOR. 1.5 GPM LAMINAR FLOW AERATOR, CHROME PLATED FINISH, PROVIDE WITH MANUFACTURERS THERMOSTATIC MIXING VALVE. DRAIN ASSEMBLY WITH 2" LEVER HANDLE DRAIN, SS FLANGE WITH BRASS BODY, STAINLESS STEEL FLAT GRID STAINER, 2"CP TRAP.
			ZURN - FAUCET	Z6922-XL							
			ELKAY - DRAIN	LK25RT							
TD-1	TRENCH DRAIN PRE-SLOPED	N/A	WATTS	DEAD LEVEL D	4"	3"	NA	NA	NA	-	WATTS DEAD LEVEL D PRE-SLOPED TRENCH DRAIN SYSTEM WITH DUCTILE IRON FRAME, UV STABILIZED GLASS-FILLED POLYPROPYLENE CHANNELS WITH INTEGRAL 4" NO HUB BOTTOM OUTLETS, AND DUCTILE IRON GRATING TO SUIT DIN CLASS "D" LOAD RATING. SYSTEM SHALL BE FRAME-ANCHORED, AND INCLUDE ENDCAPS, FRAME CONNECTORS, GRATE LOCKDOWNS, AND CONSTRUCTION COVERS. ADDITIONAL SYSTEM INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES APPLICABLE TO ALL FIXTURES:
A. BRANCH PIPE SIZES TO INDIVIDUAL FIXTURES SHALL BE AS SCHEDULED UNLESS OTHERWISE SPECIFIED.
B. FIXTURES SCHEDULED AS ACCESSIBLE SHALL BE INSTALLED PER ACCESSIBLE FACILITIES REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS.
C. UNLESS OTHERWISE NOTED, COORDINATE SINK FAUCET MOUNTING HOLES WITH THE SPECIFIED FAUCET. FAUCETS SHALL BE CENTERED OVER THE BOWL. SINKS SHALL NOT BE PROVIDED WITH SPARE MOUNTING HOLES THAT ARE NOT COVERED BY THE FAUCET.

PLUMBING GENERAL NOTES

1 COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING CODES:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC): PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2022 CALIFORNIA BUILDING CODE (CBC): PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC): PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC): PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE (CPC): PART 5, TITLE 24 CCR
2022 CALIFORNIA ENERGY CODE (CENC): PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC): PART 9, TITLE 24 CCR
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN): PART 11, TITLE 24 CCR

REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.

2 NO PLUMBING SHALL BE INSTALLED UNTIL ALL REQUIRED PLUMBING PLAN CHECK PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REQUIRED AGENCIES.
3 LAVATORY FAUCETS, SINK FAUCETS (NOT INCLUDING SERVICE SINK FAUCETS OR FAUCETS DESIGNATED AS INSTITUTIONAL) SHALL MEET THE FLOW REQUIREMENTS OUTLINED IN THE APPLIANCE EFFICIENCY STANDARDS.
4 COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES AND DRAINS.
5 PROVIDE ALL TAILPIECES, TRAPS, STOPS, AND SUPPLY PIPES TO LAVATORIES DESIGNED AS ACCESSIBLE, WITH PREFORMED INSULATION JACKET.
6 COORDINATE AND SCHEDULE TIMING FOR ALL UTILITY SERVICE CONNECTIONS.
7 ALL LINES BELOW SLAB ON GRADE TO BE LOCATED AWAY FROM ALL LOAD BEARING FOOTINGS.
8 ALL VENTS THRU ROOF SHALL BE MINIMUM OF 36 INCHES ABOVE ANY MECHANICAL VENTILATION AIR INTAKE WITHIN 10 FEET. PROVIDE VANDAL PROOF HOODS ON ALL VENTS THROUGH ROOF.
9 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, ROOFS, FOOTINGS, FLOORS, INCLUDING ALL SAW CUTTING AND CORE DRILLING. COORDINATE ALL SAW CUTTING AND CORE DRILLING WITH STRUCTURAL DRAWINGS. ANY CUTTING AND DRILLING REQUIRED OF STRUCTURAL ELEMENTS THAT IS NOT SPECIFICALLY SHOWN ON THE PLANS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PRIOR TO CUTTING AND DRILLING. CONTRACTOR SHALL SUBMIT PROPOSED LOCATION AND SIZES OF SUCH CUTTING AND DRILLING FOR THE ARCHITECTS AND STRUCTURAL ENGINEERS APPROVAL.
10 COORDINATE ALL EQUIPMENT LOCATIONS, PIPE PENETRATIONS AND EQUIPMENT PAD LOCATIONS WITH STRUCTURAL DRAWING PRIOR TO WORK.
11 COORDINATE INSTALLATION OF ALL EQUIPMENT AND PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. ENSURE THAT ALL CONTROL DEVICES, SHUT-OFF VALVES, ETC. ARE ACCESSIBLE FOR MAINTENANCE. WHERE ACCESS PANELS IN FINISHED SPACES, OTHER THAN THAT SHOWN, CONTRACTOR SHALL PROVIDE AND COORDINATE EXACT LOCATION OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
12 ANY STRUCTURAL FIREPROOFING DAMAGED DURING INSTALLATION OF PLUMBING EQUIPMENT, PIPING, ETC. SHALL BE REPAIRED AT NO COST TO THE OWNER. REPAIRS SHALL BE AS DIRECTED BY THE ARCHITECT.
13 ALL PIPING PASSING THROUGH CONCRETE/MASONRY WALLS AND FLOORS ARE TO BE SLEEVED.
14 NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE PER 2022 CPC 609.10. THE METHOD TO BE FOLLOWED SHALL BE THAT PRESCRIBED BY THE HEALTH AUTHORITY OR, IN CASE NO METHOD IS PRESCRIBED BY IT, THE FOLLOWING:

A) THE PIPE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL POTABLE WATER APPEARS AT THE POINTS OF OUTLET.
B) THE SYSTEM OR PARTS THEREOF SHALL BE FILLED WITH A WATER-CHLORINE SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION OF CHLORINE, AND THE SYSTEM OR PART THEREOF SHALL BE VALVED-OFF AND ALLOWED TO STAND FOR 24 HOURS; OR, THE SYSTEM OF PART THEREOF SHALL BE FILLED WITH A WATER-CHLORINE SOLUTION CONTAINING NOT LESS THAN 200 PARTS PER MILLION OF CHLORINE AND ALLOWED TO STAND FOR 3 HOURS.
C) FOLLOWING THE ALLOWED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL THE CHLORINE RESIDUAL IN THE WATER COMING FROM THE SYSTEM DOES NOT EXCEED THE CHLORINE RESIDUAL IN THE FLUSHING WATER.
D) THE PROCEDURE SHALL BE REPEATED WHERE IT IS SHOWN BY BACTERIOLOGICAL EXAMINATION MADE BY AN APPROVED AGENCY THAT CONTAMINATION PERSISTS IN THE SYSTEM.

PLUMBING CAL GREEN NOTES

SINK FAUCETS: 1.5 GPM MAX.

PROJECT TEAM LIST

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PIPING PRODUCTS & GENERAL REQUIREMENTS

DOMESTIC HOT WATER PIPING SHALL BE INSULATED PER CPC 609.21. HOT WATER PIPE INSULATION SHALL HAVE A MINIMUM WALL THICKNESS OF NOT LESS THAN THE DIAMETER OF THE PIPE FOR A PIPE UP TO 2 INCHES (50 MM) IN DIAMETER. INSULATION WALL THICKNESS SHALL BE NOT LESS THAN 2 INCHES (51 MM) FOR A PIPE OF 2 INCHES (50 MM) OR MORE IN DIAMETER.

PIPING, FIXTURES, APPLIANCES, AND APPURTENANCES SHALL BE SUPPORTED IN ACCORDANCE WITH CPC 2022, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. SUSPENDED PIPING SHALL BE SUP-PORTED AT INTERVALS NOT TO EXCEED THOSE SHOWN IN CPC TABLE 313.3. HANGER ROD SIZES SHALL BE NOT SMALLER THAN THOSE SHOWN IN CPC TABLE 313.6.

WATER PIPE SIZING CRITERIA CALCULATION

ELEMENT	PRESSURE (PSI)	PRESSURE (FT H2O)
STATIC PRESSURE IN MAIN	85.0	196.1
LOSS THROUGH METER	0.7	1.6
LOSS THROUGH BACKFLOW PREVENTER	12.0	27.7
PRESSURE LOSS THROUGH PRV	0.0	0.0
OTHER DOWNSTREAM PRESSURE LOSSES	0.0	0.0
PRESSURE LOSS THROUGH ELEVATION HEAD (@0.434 PSI PER FOOT H2O) (IF LOSS IS NEGATIVE, THIS INDICATES FINAL FIXTURE IS LOWER THAN THE MAIN LINE AND THERE IS A GAIN IN PRESSURE)	4.3	10.0
PRESSURE REQUIRED AT FINAL FIXTURE	30.0	69.2
REMAINING PRESSURE FOR FRICTION LOSSES	38.0	87.6
NOMINAL DISTANCE BETWEEN MAIN AND FINAL FIXTURE (FT)	150.0	
TOTAL DEVELOPED LENGTH BETWEEN MAIN AND FINAL FIXTURE (FT) (ACCOUNTING FOR MINOR LOSSES WITH NOMINAL DISTANCE X 1.4)	210.0	
PRESSURE SIZING CRITERIA (PSI LOSS / 100'-0" OF PIPING)	8.0	
PRESSURE SIZING CRITERIA (FT H2O LOSS / 100'-0" OF PIPING)	18.4	
CW VELOCITY SIZING CRITERIA (FT/S)	8.0	
HW VELOCITY SIZING CRITERIA (FT/S)	5.0	
ASSUMED GPM FROM FIXTURE UNIT COUNT	5.5	

DOMESTIC WATER PIPING IS SIZED BASED ON PRESSURE LOSS IN PSI PER 100 FEET OF PIPING. IF THE ALLOWABLE PRESSURE LOSS STATED ABOVE IS GREATER THAN 8 PSI PER 100 FEET OF PIPE, SIZING SHALL BE BASED ON A PRESSURE LOSS OF 8 PSI PER 100 FEET OF PIPE WITH A MAXIMUM VELOCITY OF 8 FEET PER SECOND FOR COLD WATER AND 5 FEET PER SECOND FOR HOT WATER.

WATER & SEWER SIZING TABLE

PIPING SIZED PER 2022 CPC

DOMESTIC WATER SERVICE

TOTAL WATER SUPPLY FIXTURE UNITS			FT/FV	GPM	PIPE SIZE (INCHES)	METER SIZE (INCHES)	INCOMING PSI	REGULATED PSI	PSI/100'
6.5			FLUSH TANK	5.5	0.75	3/4	85	NOT REGULATED	8
MAXIMUM FIXTURE UNITS ALLOWED	PIPE SIZE (INCHES)	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3
	FLUSH VALVES (8 FPS MAX.)	0	0	0	12	35	132	329	666
	FLUSH TANK (8 FPS MAX.)	3	10	23	51	103	254	455	719
	HOT WATER (5 FPS MAX.)	3	8	16	28	46	119	245	406

SEWER LINE

TOTAL DRAINAGE FIXTURE UNITS	PIPE SIZE REQUIRED (INCHES)	PIPE SIZE PROVIDED (INCHES)	BUILDING DRAIN SLOPE	BUILDING SEWER SLOPE
11	3	4	2%	SEE CIVIL

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	AAV	AUTOMATIC AIR VENT
		BALL VALVE
	BFV	BUTTERFLY VALVE
		CAP
		CHECKVALVE
	COTG	CLEAN OUT TO GRADE
Ø	DIA	DIAMETER
ϕ		ELECTRICAL PHASE
	FCO	FLOOR CLEAN OUT
	HB	HOSE BIBB
		RECESSED HOSE BIBB
		SHUT OFF VALVE IN PIPE DROP OR PIPE RISER
	TPV	TRAP PRIMER VALVE
		PIPE DOWN
		PIPE UP
		PIPE TEE DOWN
		PIPE INTERSECTION
		PLUG VALVE ELEVATION VIEW
	PV	PLUG VALVE PLAN VIEW
		REDUCED PRESSURE BACK FLOW PREVENTOR
WCO	WCO	WALL CLEANOUT
	CO	CLEANOUT
	WHA	WATER HAMMER ARRESTOR
A	A	COMPRESSED AIR
	CW	COLD WATER
CD	CD	CONDENSATE DRAIN
	HW	HOT WATER
	V	SANITARY VENT
TP TP	TP	TRAP PRIMER WATER SUPPLY
	S/W	WASTE (BELOW GRADE)
22x30 MIN AP	AP	ACCESS PANEL. SIZE GIVEN INDICATES MINIMUM SIZE REQUIRED

PLUMBING ABBREVIATIONS

ABV	ABOVE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AG	ABOVE GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALUM	ALUMINUM
AMP	AMPERAGE
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
BEL	BELOW
BF	BELOW FLOOR
BG	BELOW GRADE
BFP	BACKFLOW PREVENTOR
BLDG	BUILDING
BOD	BASIS OF DESIGN
BTUH	BRITISH THERMAL UNIT PER HOUR
CA	COMBUSTION AIR
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CONN	CONNECTION
CONT	CONTINUATION
CP	CHROME PLATED
CPC	CALIFORNIA PLUMBING CODE
COTG	CLEAN OUT THROUGH GRADE
CW	COLD WATER
DFU	DRAINAGE FIXTURE UNITS
DN	DOWN
DSA	DIVISION OF THE STATE ARCHITECT
(E)	EXISTING
EC	EVAPORATIVE COOLER
EFF	EFFICIENCY
ELEC	ELECTRICAL
EQPT	EQUIPMENT
FCO	FLOOR CLEAN OUT
FFE	FINISH FLOOR ELEVATION
FLA	FULL LOAD AMPS
FLR	FLOOR
FPS	FEET PER SECOND
FR	FROM
FT	FLUSH TANK
FV	FLUSH VALVE
GA	GAGE OR GAUGE
GPC	GALLONS PER CYCLE
GPF	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HP	HORSE POWER
HW	HOT WATER
IE	INVERT ELEVATION
IN/H	INCHES PER HOUR
IWC	INCHES OF WATER COLUMN
KW	KILOWATTS
LAV	LAVATORY
LBS	POUNDS
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MECH	MECHANICAL
MFGR	MANUFACTURE OR MANUFACTURER
MIN	MINIMUM
(N)	NEW
NPS	NOMINAL PIPE SIZE
NTS	NOT TO SCALE
PH	PHASE
PSI	POUNDS PER SQUARE INCH
PW	PROCESS WASTE
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SDL	STORM DRAIN LEADER
SDO	STORM DRAIN OVERFLOW
SOV	SHUT OFF VALVE
SS	STAINLESS STEEL
TEMP	TEMPORARY, TEMPERATURE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UTR	UP TO OR UP THROUGH ROOF
V	VENT
VAC	VACUUM
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WHA	WATER HAMMER ARRESTOR
WSFU	WATER SUPPLY FIXTURE UNIT
WT	WEIGHT EXPRESSED IN POUNDS
W/	WITH
W/O	WITHOUT

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7 PLUMBING GENERAL & SCHEDULES

ENGINEERING SHEET NO. P0.0

DRN. BY: TO | DES. BY: EF | CK'D. BY: DS

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

April 17, 2026 | SHEET 83 OF151 | DWG. NO. 2025-D-010

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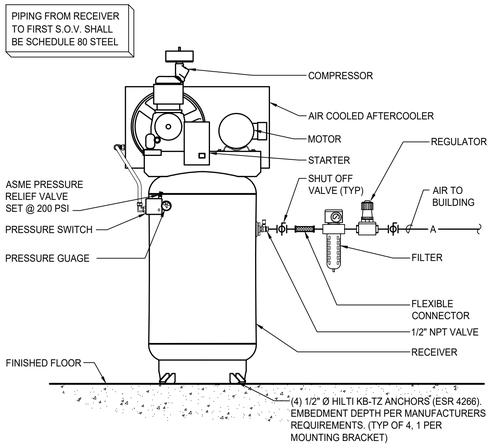
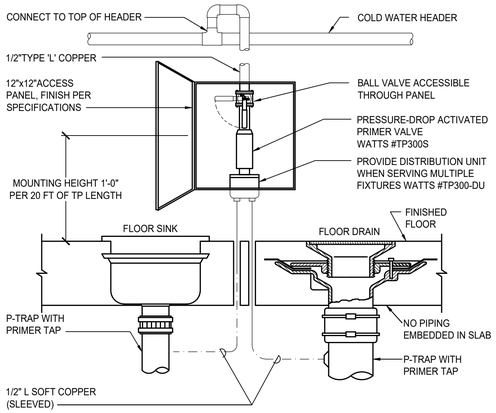
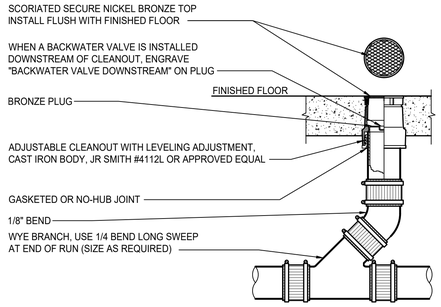
REGISTERED PROFESSIONAL ENGINEER — BRIAN P. STARRETT — M 34068 — EXP. 6/30/26 — MECHANICAL — STATE OF CALIFORNIA



6 AIR COMPRESSOR
NTS



4 TRAP PRIMER
NTS

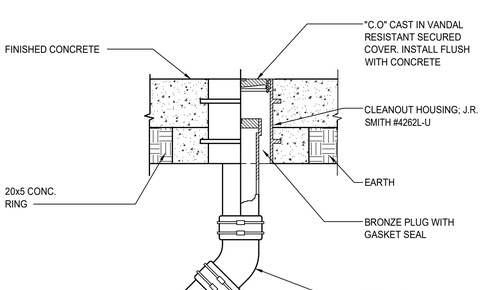


CLEANOUTS IN PIPING 2" OR LESS SHALL HAVE A CLEARANCE OF NOT LESS THAN 18" X 18" IN FRONT OF THE CLEANOUT, CLEANOUTS IN PIPING LARGER THAN 2" INCHES SHALL HAVE A CLEARANCE OF NOT LESS THAN 24" X 24".

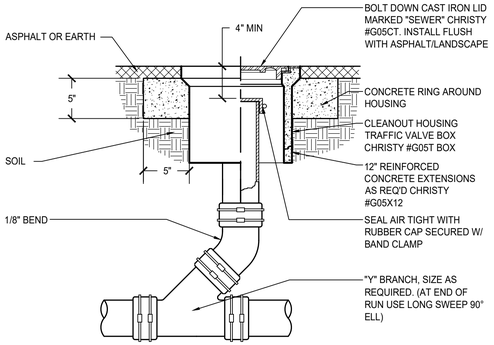
CLEANOUTS: CPC TABLE 707.1

PIPE SIZE	CLEANOUT SIZE	THREADS (PER INCH)
1-1/2" - 2"	1-1/2"	11-1/2
2-1/2" - 3"	2-1/2"	8
4" & LARGER	3-1/2"	8

2 FLOOR CLEANOUT
NTS



FINISHED CONCRETE AREAS



ASPHALT & LANDSCAPED AREAS

CLEANOUTS IN PIPING 2" OR LESS SHALL HAVE A CLEARANCE OF NOT LESS THAN 18" X 18" IN FRONT OF THE CLEANOUT, CLEANOUTS IN PIPING LARGER THAN 2" INCHES SHALL HAVE A CLEARANCE OF NOT LESS THAN 24" X 24".

CLEANOUTS: CPC TABLE 707.1

PIPE SIZE	CLEANOUT SIZE	THREADS (PER INCH)
1-1/2" - 2"	1-1/2"	11-1/2
2-1/2" - 3"	2-1/2"	8
4" & LARGER	3-1/2"	8

1 CLEANOUT TO GRADE
NTS

7 COMPRESSED AIR QUICK CONNECT
NTS

5 BUILDING WATER SUPPLY
NTS

CLEANOUTS IN PIPING 2" OR LESS SHALL HAVE A CLEARANCE OF NOT LESS THAN 18" X 18" IN FRONT OF THE CLEANOUT, CLEANOUTS IN PIPING LARGER THAN 2" INCHES SHALL HAVE A CLEARANCE OF NOT LESS THAN 24" X 24".

CLEANOUTS: CPC TABLE 707.1

PIPE SIZE	CLEANOUT SIZE	THREADS (PER INCH)
1-1/2" - 2"	1-1/2"	11-1/2
2-1/2" - 3"	2-1/2"	8
4" & LARGER	3-1/2"	8

3 WALL CLEANOUT
NTS

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An EMCON Company
(805) 540 3363
1500 Fulm St, San Luis Obispo, CA, 93401

REGISTERED PROFESSIONAL ENGINEER — BRIAN P. STARNES — M 34068 — EXP. 6/30/26 — MECHANICAL — STATE OF CALIFORNIA

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
PLUMBING DETAILS

ENGINEERING SHEET NO. P0.1

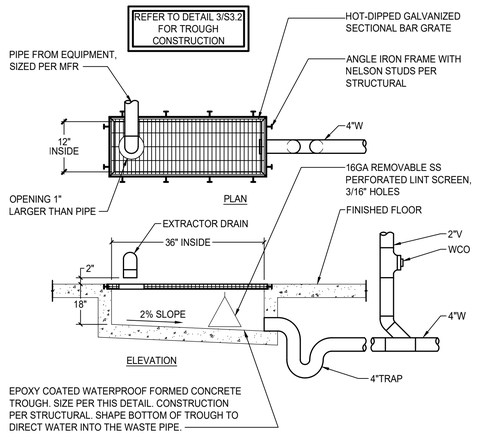
DRN. BY: TO	DES. BY: EF	CK'D. BY: DS

PRINCIPAL ENGINEER — 5 May 2026 — DATE

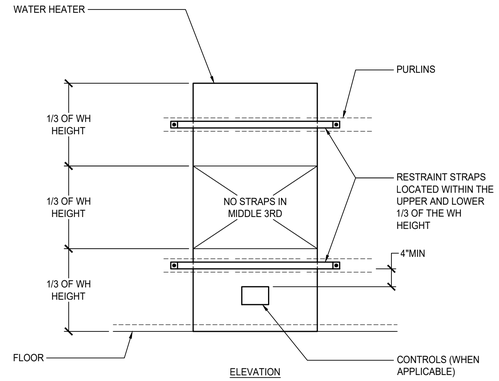
CITY ENGINEER — 5/7/2026 — DATE

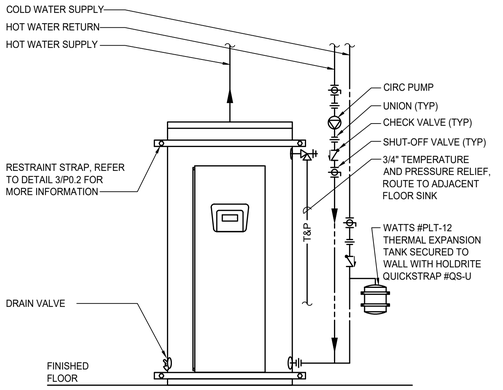
SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

April 17, 2026 | SHEET 84 OF151 | DWG. NO. 2025-D-010



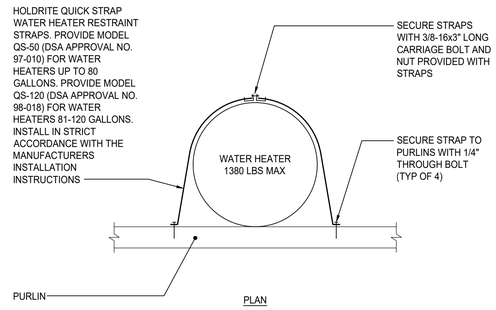
4 TROUGH DRAIN
FOR REAR DISCHARGE WASHER/EXTRACTOR

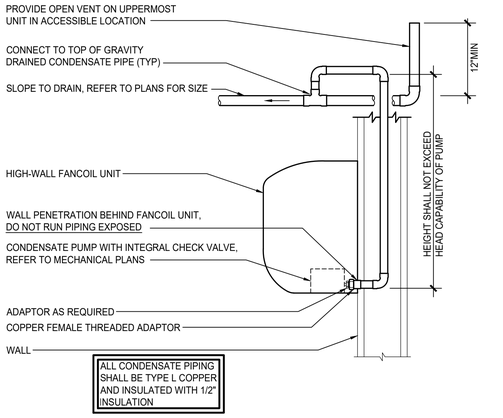




NOTES:
1. COORDINATE ALL ELECTRICAL CONNECTIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

1 HEATPUMP WATER HEATER DETAIL
NTS





3 TANK TYPE WH RESTRAINT
NTS

2 HIGH-WALL FANCOIL CONDENSATE DRAIN
NTS

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REGISTERED PROFESSIONAL ENGINEER
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M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

ENGINEERING SHEET NO. P0.2

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
PLUMBING DETAILS

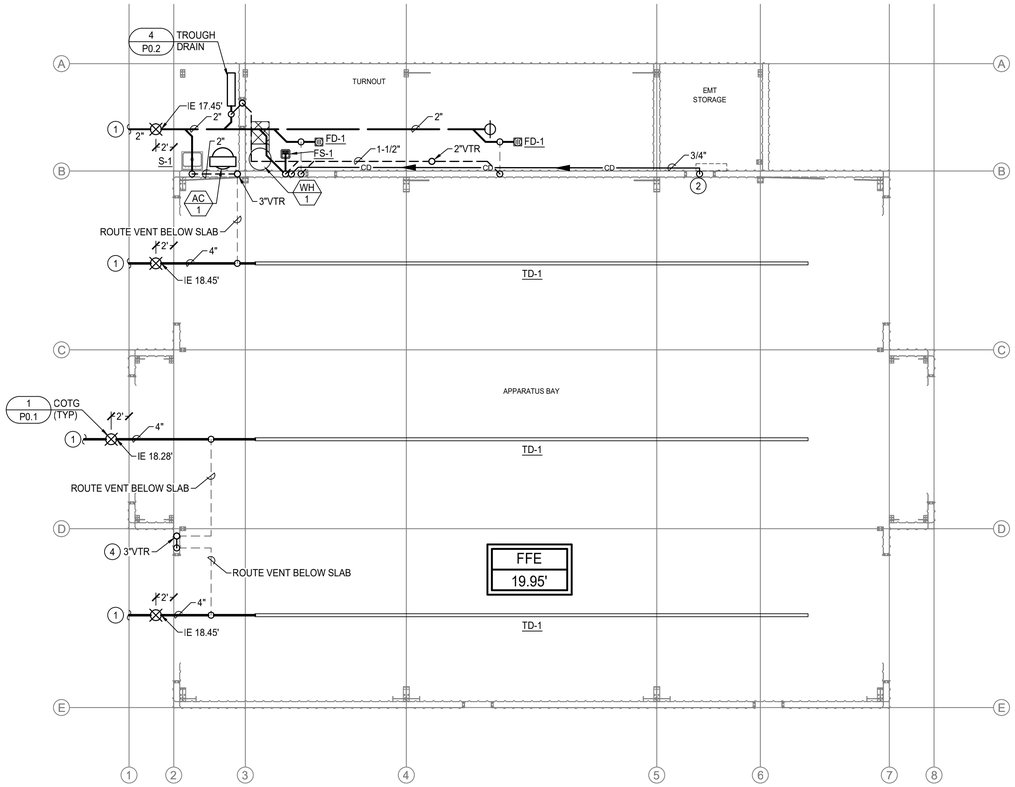
DRN. BY: TO	DES. BY: EF	CK'D. BY: DS

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

April 17, 2026 | SHEET 85 OF 151 | DWG. NO. 2025-D-010



FLOOR PLAN - WASTE & VENT

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

KEY NOTES

APPLICABLE TO THIS SHEET ONLY

1	REFER TO CIVIL PLANS FOR CONTINUATION.
2	CONDENSATE CONNECTION TO MECHANICAL EQUIPMENT. SEE DETAIL 2/P0.2 FOR MORE INFORMATION.
3	CONDENSATE DOWN IN WALL. TERMINATE TO FLOOR SINK.
4	CONNECT VENT PIPING MINIMUM 6" ABOVE FINISHED FLOOR.

PLUMBING GENERAL NOTES

APPLICABLE TO THIS SHEET ONLY

1	SEE PLUMBING FIXTURE SCHEDULE FOR BRANCH PIPE SIZING.
2	PROVIDE ANGLE STOPS FOR ALL PLUMBING FIXTURE BRANCH PIPING LINES.
3	SLOPE SANITARY WASTE PIPING MIN 2% IN DIRECTION OF FLOW UNLESS OTHERWISE NOTED.
4	SLOPE VENT PIPING UP TOWARDS VTR MIN 1%.
5	SLOPE CONDENSATE PIPING MIN 1% IN DIRECTION OF FLOW.
6	ALL ROOMS WITH FLOOR DRAINAGE MUST HAVE FLOORS SLOPED TOWARD DRAIN. SEE ARCHITECTURAL PLANS FOR REQUIRED SLOPE.
7	PROVIDE CLEANOUTS IN ALL LOCATIONS SHOWN. COORDINATE ALL WALL CLEANOUTS WITH PLUMBING FIXTURES, CASEWORK, AND ARCHITECTURAL ELEVATIONS. SEE DETAIL 3/P0.1 FOR SIZING AND CLEARANCES REQUIRED.
8	REFER TO ARCHITECTURAL PLANS FOR THE LOCATION OF ALL FIXTURES, INCLUDING BUT NOT LIMITED TO FLOOR SINKS, FLOOR DRAINS, TRENCH DRAINS AND ROOF DRAINS. THE ARCHITECTURAL PLANS SHALL TAKE PRECEDENCE.
9	REFER TO MECHANICAL PLANS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK. COORDINATE ALL WORK TO FIT IN AVAILABLE SPACE.
10	COORDINATE PIPE ROUTING WITH LOCATION OF ELECTRICAL AND DATA PANELS. PIPING SHALL NOT BE ROUTED ABOVE THE PANELS.

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7 FLOOR PLAN - WASTE AND VENT

DRN. BY: TO | DES. BY: EF | CK'D. BY: DS

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

April 17, 2026 | SHEET 86 OF 151 | DWG. NO. 2025-D-010

ENGINEERING SHEET NO. P2.0

REGISTERED PROFESSIONAL ENGINEER — BRIAN P. STARNES — M 34068 — MECHANICAL — STATE OF CALIFORNIA — EXP. 6/30/26

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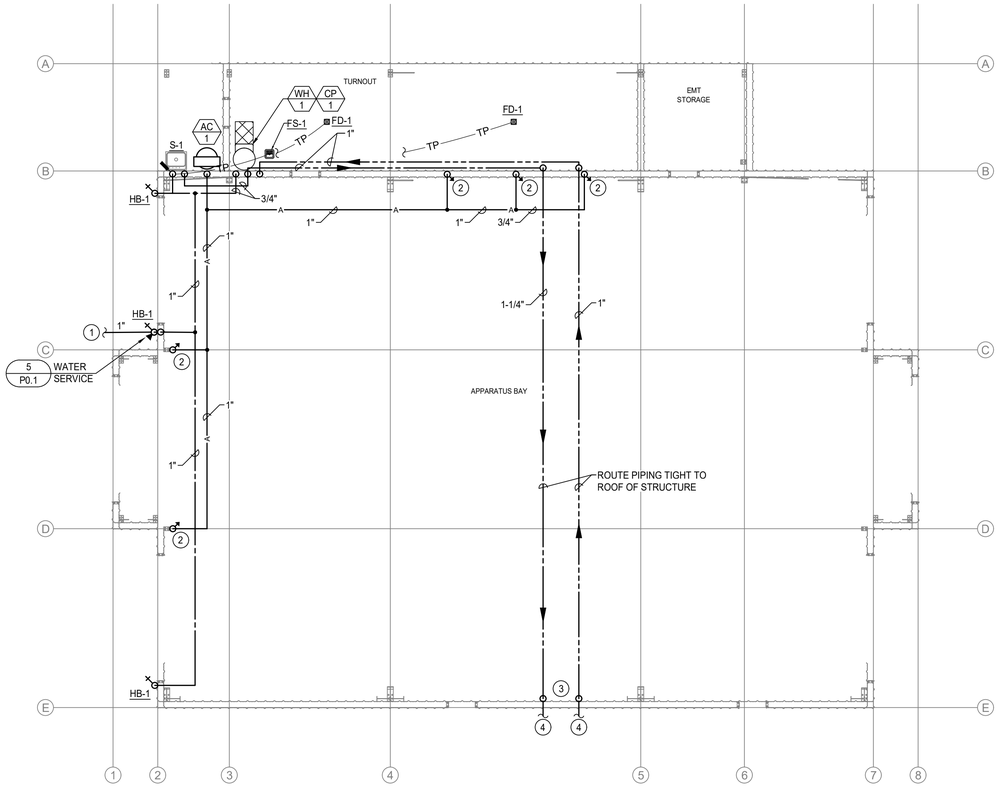
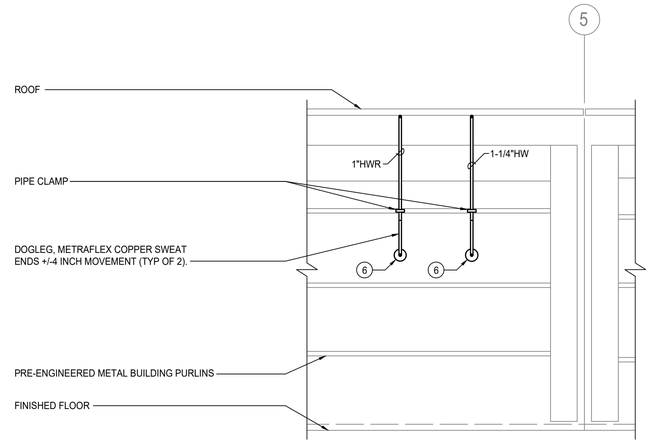


1 FLOOR PLAN - WATER & AIR

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



2 SEISMIC LOOP ELEVATION

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

KEY NOTES

APPLICABLE TO THIS SHEET ONLY

1	REFER TO CIVIL PLANS FOR CONTINUATION.
2	3/4" AIR DOWN ON WALL TO QUICK CONNECTION. SEE DETAIL 7/P0.1 FOR MORE INFORMATION.
3	HW & HWR DOWN ON WALL, ATTACHED TO PRE-ENGINEERED METAL BUILDING PURLINS. SEE DETAIL 2/P2.1 FOR MORE INFORMATION.
4	1-1/4"HW & 1"HWR TO MODULAR BUILDING. SITE PLUMBER TO CONNECT HW & HWR IN MODULAR BUILDING. COORDINATE WITH GLOBAL MODULAR FOR FINAL LOCATION (951-686-3633).
5	ROUTE PIPING TIGHT TO ROOF OF STRUCTURE. SEE DETAIL 8/P0.1 FOR MORE INFORMATION.
6	ROUTE PIPING TO ADJACENT MODULAR BUILDING. PROVIDE FLASHING AT OPENING TO CONCEAL OPENING. OPENING TO BE SIZED AS FOLLOW: PIPE OD + INSULATION + SEISMIC MOVEMENT + 2". PROVIDE SHEET METAL ESCUTCHEON PLATE THAT WILL YIELD DURING SEISMIC EVENT. ESCUTCHEON SHALL NOT RESTRICT MOVEMENT OF PIPING

PLUMBING GENERAL NOTES

APPLICABLE TO THIS SHEET ONLY

1	SEE PLUMBING FIXTURE SCHEDULE FOR BRANCH PIPE SIZING.
2	PROVIDE ANGLE STOPS FOR ALL PLUMBING FIXTURE BRANCH PIPING LINES.
3	REFER TO ARCHITECTURAL PLANS FOR THE LOCATION OF ALL FIXTURES, INCLUDING BUT NOT LIMITED TO FLOOR SINKS, FLOOR DRAINS, TRENCH DRAINS AND ROOF DRAINS. THE ARCHITECTURAL PLANS SHALL TAKE PRECEDENCE.
4	REFER TO MECHANICAL PLANS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK. COORDINATE ALL WORK TO FIT IN AVAILABLE SPACE.
5	COORDINATE PIPE ROUTING WITH LOCATION OF ELECTRICAL PANELS AND DATA EQUIPMENT. PIPING SHALL NOT BE ROUTED ABOVE THESE ITEMS.

REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7 FLOOR PLAN - WATER AND AIR

ENGINEERING SHEET NO. P2.1

DRN. BY: TO | DES. BY: EF | CK'D. BY: DS

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

April 17, 2026 | SHEET 87 OF151 | DWG. NO. 2025-D-010

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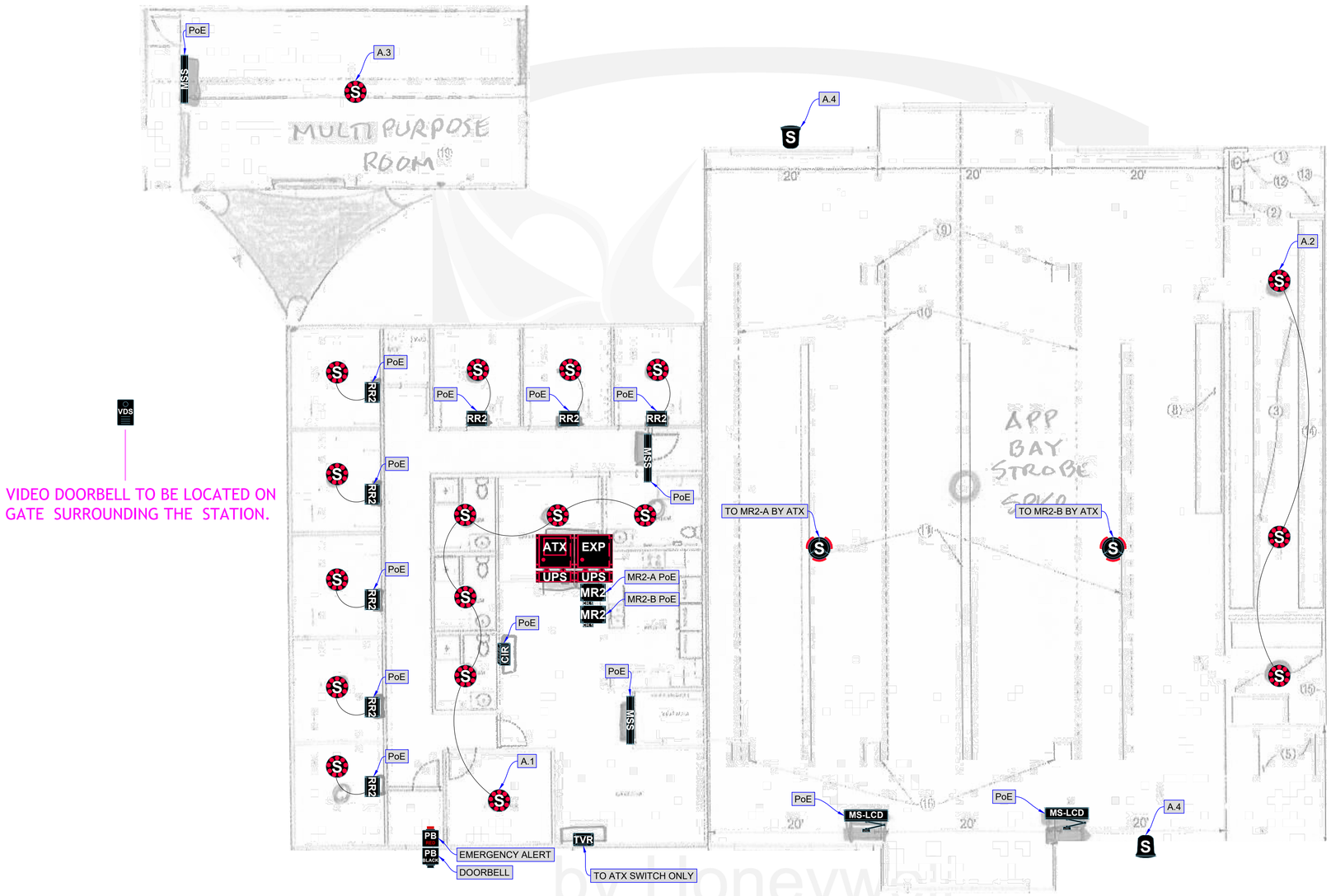
REGISTERED PROFESSIONAL ENGINEER
JONATHAN P. STARRETT
M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA



US DIGITAL DESIGNS	
Count	Name
1	G2 ATX STATION CONTROLLER (ATX)
1	G2 EXPANSION UNIT (G2-EXP)
2	G2 ATX-EXP RACK EARS (ATX-E)
2	UPS (UPS-STD)
2	UPS WALL-MOUNT BRACKET (UPS-WMB)
1	G2 CIR BACK BOX - SURFACE MOUNT (CIR-SMB)
1	G2 COLOR INDICATOR REMOTE (CIR)
1	G2 HDTV REMOTE (TV-R)
1	PUSH BUTTON (PB-B)
1	PUSH BUTTON (PB-R)
2	G2 MESSAGE REMOTE 2 (MR-2)
2	G2 MESSAGE SIGN LCD (USDD-LCD-SIGN)
3	G2 MESSAGE SIGN STANDARD (MS-G2-S)
2	MS MOUNT ARTICULATING (MS-MNT)
8	G2 ROOM REMOTE 2 (RR-2)
18	G2 LED SPEAKER (SPK-LED-FM)
2	G2 OMNISTROBE SPEAKER (SPK-OAS)
2	SPEAKER WEATHER-PROOF (SPK-W-SM)
1	VIDEO DOOR STATION (VDS)

POE PORTS REQUIRED ON ATX	
Count	Name
16	G2 PoE PORT REQUIRED

SYMBOL	DESCRIPTION
I/O	G2 I/O REMOTE
MR2	G2 MESSAGE REMOTE 2
RR2	G2 ROOM REMOTE 2
TVR	G2 HDTV REMOTE
CIR	G2 COLOR INDICATOR REMOTE
PB RED	PUSH BUTTON - RED
PB BLACK	PUSH BUTTON - BLACK
VDS	G2 VIDEO DOOR STATION
LAR	G2 LOCAL AREA REMOTE
STR	G2 STROBE LIGHT
T	OEM TRANSFORMER
S	G2 OMNIALERT STROBE SPEAKER
S	G2 LED SPEAKER, FLUSH MOUNT
S	G2 LED SPEAKER, METAL BOX
S	SPEAKER, WEATHER-PROOF
S	SPEAKER, FLUSH MOUNT
S	SPEAKER, METAL BOX
MSM	G2 MESSAGE SIGN (MINI 12")
MSS	G2 MESSAGE SIGN (STANDARD 24")
MSE	G2 MESSAGE SIGN (EXTENDED 36")
MS-LCD	G2 LCD MESSAGE SIGN
FPM - XX"	OEM FLAT PANEL MONITOR, XX", WITH MOUNT
VC	VOLUME CONTROL (CUSTOMER SUPPLIED)
	ADAPTER PLATE SINGLE
	ADAPTER PLATE DOUBLE
	ARTICULATING ARM MOUNT - LONG

SYMBOL	DESCRIPTION
ATX	G2 ATX STATION CONTROLLER
EXP	G2 EXPANSION MODULE
ATX LT	G2 ATX LITE STATION CONTROLLER
UPS	G2-UNINTERRUPTIBLE POWER SUPPLY
AMP	OEM AMPLIFIER

INSTALLER NOTES:

1. INSTALLER TO VERIFY WALL AND CEILING TYPE TO DETERMINE NEED FOR FLUSH OR SURFACE MOUNT INSTALLATION OF EQUIPMENT SPECIFIED.
2. INSTALLER TO COORDINATE CONNECTION BETWEEN ATX STATION CONTROLLER'S LINE-LEVEL AUDIO OUTPUT AND (EXISTING) OWNER-FURBISHED HOUSE AUDIO SYSTEM (AMP). (IF APPLICABLE)
3. INSTALLER TO PROVIDE CAT6 & 18/4 CABLES FROM ATX CONTROLLER TO CUSTOMER'S STATION RADIO FOR BACKUP.
4. INSTALLER TO PROVIDE CAT6 CABLE FROM ATX CONTROLLER WAN OUTPUT TO CUSTOMER'S IN-STATION NETWORK.
5. INSTALLER TO COORDINATE CONNECTION BETWEEN EXISTING STATION LIGHTING CONTROL SYSTEM AND RELAY OUTPUT FROM ATX STATION CONTROLLER OR I/O REMOTE WITH OWNER. (IF APPLICABLE)
6. VOLUME CONTROL TO BE PROVIDED BY OWNER OR INSTALLER IF SHOWN ON DRAWING.
7. INSTALLER TO VERIFY AND CONSIDER LOCATION(S) OF NETWORK AND RADIO CONNECTIONS.

PoE = G2 ATX Power-over-Ethernet (PoE) ports 1...8 and G2 Expansion Module ports 1...12

A.n = G2 ATX Amplifier 1...4 | **EA.n** = G2 External Amplifier 1...n | **CH.n** = G2 Message Remote 2 Channel 1 or 2

NOTES:

1. SEE ARCHITECTURAL SPECIFICATIONS FOR ALL ROUGH-IN AND INSTALLATION DETAILS.
2. US DIGITAL DESIGNS DOES NOT SUPPLY BACK BOXES, CONDUITS, OR MOUNTING FASTENERS.
3. US DIGITAL DESIGNS FIRE STATION ALERTING PLANS ARE DIAGRAMMATIC AND FOR QUOTING PURPOSES ONLY. DRAWING MAY NOT BE TO SCALE.
4. PHOENIX G2 SYSTEM IS ABLE TO SIGNAL OWNER-FURBISHED SYSTEMS, (EXHAUST, LIGHT, GAS SHUT OFF, ETC.) BUT USDD DOES NOT SUPPLY THESE SYSTEMS AND CANNOT WARRANT OR SUPPORT ANY OF THEIR PERFORMANCE BEYOND THE TRANSMISSION OF RELAY SIGNAL TO THEM.

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REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

STATION ALERTING SYSTEM

DRN. BY: DMG	DES. BY: DMG	CK'D. BY: JRA

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

April 24, 2025 | SHEET 88 OF151 | DWG. NO. 2025-D-010

GENERAL IRRIGATION NOTES

ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.

THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.

THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.

THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.

ALL IRRIGATION EQUIPMENT BOXES WITHIN THE PUBLIC RIGHT OF WAY SHALL BE TRAFFIC RATED CONCRETE BOXES WITH METAL LIDS. REFER TO CITY STANDARD DETAILS.

DO NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.

INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.

ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE TO THE END OF THE MAINLINE RUN IN TWO DIRECTIONS FROM THE CONTROLLER.

ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE TWICE THE DIAMETER OF THE PIPE CARRIED. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.

ALL QUICK COUPLER VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER VALVES WITHIN 18" OF HARDSCAPE.

ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.

CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BIDDING WORK AND AGAIN PRIOR TO COMMENCING WORK. VERIFICATION SHALL BE DOCUMENTED AND DELIVERED TO OWNER'S REPRESENTATIVE.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ALL SCH 40 PVC SLEEVING UNDER PAVING, WALLS AND CURBS AT NO LESS THAN 24" BELOW GRADE AND NO LESS THAN 2X DIAMETER OF IRRIGATION PIPE IN AREAS WHERE PIPE CROSSING WILL OCCUR.

EXISTING IRRIGATION IN ADJACENT AREAS SHALL BE PROTECTED IN PLACE FOR CONTINUED USE. CONTRACTOR SHALL VERIFY THE EXTENT OF THE EXISTING SYSTEM AND MAKE ADJUSTMENTS TO CAP OFF OR MODIFY THE EXITING SYSTEM TO MEET THE NEW LANDSCAPE CONDITION IF NECESSARY.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING IRRIGATION EQUIPMENT DAMAGED DURING CONSTRUCTION AND IF DAMAGED, SHALL REPLACE WITH SAME MANUFACTURER AND MODEL.

ALL EQUIPMENT LOCATIONS AND PIPE ROUTING SHALL BE STAKED IN FIELD FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. ALL LAYOUT SHALL BE AS APPROVED BY, LANDSCAPE ARCHITECT, AND OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION. NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVAL OF LAYOUT.

CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE INSTALLATION OF PROPOSED IRRIGATION EQUIPMENT AND RELATED EQUIPMENT, INCLUDING BUT NOT LIMITED TO R.C.V. CONTROL WIRES, ELECTRICAL WIRES, CONDUIT, REMOTE CONTROL VALVES, ETC. ALL LAYOUT AND LOCATIONS SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.

CONTRACTOR SHALL ADJUST AND CAP OFF EXISTING ADJACENT IRRIGATION SYSTEM AS REQUIRED. SYSTEM SHALL PROVIDE COMPLETE 100% HEAD TO HEAD COVERAGE IN ALL AREAS AS APPROVED BY OWNER'S AUTHORIZED REPRESENTATIVE. ALL LAYOUT SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.

CONTRACTOR SHALL REFER TO CORRESPONDING ON-SITE WATER AND SEWER PLAN FOR UNDERLYING WATERLINES, EASMENTS, AND OTHER RELATED EQUIPMENT. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS IN FIELD WITH OWNERS AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.

RECIRCULATING WATER SYSTEMS SHALL BE USED FOR WATER FEATURES.

PRESSURE REGULATING DEVICES ARE REQUIRED ON ALL RECYCLED WATER SYSTEMS, AND IF WATER PRESSURE IS BELOW OR EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVICES.

INCLUDE CHECK VALVES OR ANTI-DRAIN VALVES TO PREVENT LOW HEAD DRAINAGE.

CONTRACTOR TO PROVIDE A NEATLY DRAWN LAMINATED IRRIGATION LAYOUT CHART FOR AUTOMATIC CONTROLLERS. PEDESTALS SHALL BE LOCATED WITHIN PLANTER AREAS WITH AN 18" PAD OF DG OR MULCH AT FRONT OF ACCESS. THE CENTRAL CONTROLLER SHALL INCLUDE A MANUFACTURER SUPPORT PAGE.

A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES

A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE SIGNER OF THE IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.

AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED AT THE TIME OF FINAL INSPECTION. THE REPORT SHALL INCLUDE THE FOLLOWING:

a. CONTROLLER PROGRAM IRRIGATION SCHEDULE TO INCLUDE: START TIMES, PROGRAMS, AND RUN TIMES. SCHEDULE SHALL CONSIDER APPLICATION RATE, SOIL TYPE, PLANT FACTORS, SLOPE, AND EXPOSURE .
b. CONTROLLER PROGRAMMING TO ON-SITE WEATHER SENSOR OR CIMIS STATION
c. CONTROLLER PROGRAMMING TO FLOW SENSOR AND MASTER VALVE, OR LEARNED RUN TIMES.
d. VERIFICATION OF EFFICIENT WATER USE WITH NO RUNOFF OR OVERSPRAY BY TESTING MIN 15% OF THE SITE.
e. VERIFICATION OF THE REDUCED SIZE IRRIGATION PLAN, LAMINATED WITH LAYOUT CHART INDICATION VALVE NUMBER AND COLOR-CODED AREA OF SYSTEM LIMITS AND IRRIGATION RUN SCHEDULE.

Maximum Applied Water Allowance & Estimated Total Water Use (MAWA & ETWU)

Project Name → INTERIM FIRE STATION NO.7
City Location → Ventura
Site Type → Commercial
Annual Eto (inches/yr) → 43.5

Zone or Valve	Water Use Plant Factor		Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Hydrozone Area (sqft.)	ETAF x Area	Estimated Total Water Use (gal./yr.)	Percentage of Landscape Area
Regular Landscape Areas									
1	0.2	Low	Shrub Drip Emitter	0.81	0.2	2,620	647	17,447	10.84%
2	0.2	Low	Tree Bubbler	0.81	0.2	30	7	200	0.12%
3	0.2	Low	Shrub Drip Emitter	0.81	0.2	3,897	962	25,951	16.12%
4	0.5	Moderate	Turf Spray	0.75	0.7	800	533	14,384	3.31%
5	0.5	Moderate	Turf Spray	0.75	0.7	800	533	14,384	3.31%
6	0.2	Low	Shrub Drip Emitter	0.81	0.2	3,432	847	22,855	14.20%
7	0.5	Moderate	Turf Spray	0.75	0.7	800	533	14,384	3.31%
8	0.5	Moderate	Turf Spray	0.75	0.7	800	533	14,384	3.31%
9	0.2	Low	Tree Bubbler	0.81	0.2	20	5	133	0.08%
10	0.2	Low	Shrub Drip Emitter	0.81	0.2	1,293	319	8,610	5.35%
11	0.2	Low	Shrub Drip Emitter	0.81	0.2	1,738	429	11,574	7.19%
12	0.2	Low	Shrub Drip Emitter	0.81	0.2	3,756	927	25,012	15.54%
13	0.2	Low	Shrub Drip Emitter	0.81	0.2	417	103	2,777	1.73%
14	0.2	Low	Tree Bubbler	0.81	0.2	20	5	133	0.08%
15	0.2	Low	Shrub Drip Emitter	0.81	0.2	491	121	3,270	2.03%
16	0.2	Low	Shrub Drip Emitter	0.81	0.2	3,255	804	21,676	13.47%
					SUBTOTAL →	**24,169**	**7,311**	**197,174**	
Special Landscape Areas									
					SUBTOTAL →	**0**	**0**	**0**	
					GRAND TOTAL →	**24,169**			100.00%
					Estimated Total Water Use (ETWU) →			**197,174**	
					Maximum Allowed Water Allowance (MAWA) →			**293,327**	

ETAF Calculations

Regular Landscape Areas
Total ETAF x Area 7,311
Total Area 24,169
Average ETAF 0.30

All Landscape Areas
Total ETAF x Area 7,311
Total Area 24,169
Sitewide ETAF 0.30

Notes:

ETWU meets MAWA requirement.

Average ETAF meets requirement for this site type.

Calculator developed July 27, 2015.
This calculator is for estimating purposes only.
Hunter assumes no liability for use of this calculator.

Irrigation Controller Schedule

	City:	Ventura		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total:
			ETo/Mo	2.2	2.6	3.2	3.8	4.6	4.7	5.5	4.9	4.1	3.4	2.5	2.0	43.5
POC / Controller:	C		ETo/Day	0.07	0.09	0.10	0.13	0.15	0.16	0.18	0.16	0.14	0.11	0.08	0.06	
Irrigation Type & Qty. of Valves	***AKc (%)***	***Precip. Rate***	***Irr. Effic.***													
Tree Bubbler (LW)	0.3	0.98	0.81	2	2	2	3	3	4	4	4	3	2	2	1	Min/Day per Valve
3				**5**	**6**	**7**	**9**	**10**	**11**	**12**	**11**	**9**	**7**	**6**	**4**	**Total Min/Day**
Shrub Drip Emitter (LW)	0.3	0.15	0.81	11	14	15	19	22	23	26	23	20	16	12	10	Min/Day per Valve
9				**95**	**124**	**138**	**169**	**198**	**209**	**237**	**211**	**182**	**146**	**111**	**86**	**Total Min/Day**
Turf Spray (MW)	0.6	0.77	0.75	4	6	6	8	9	10	11	10	9	7	5	4	Min/Day per Valve
4				**18**	**23**	**26**	**32**	**37**	**39**	**44**	**39**	**34**	**27**	**21**	**16**	**Total Min/Day**

Total Valve Count
16

TOTAL RUN TIMES (MINS):

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
117	**153**	**170**	**209**	**245**	**259**	**293**	**261**	**226**	**181**	**138**	**106**

Weekly Irrigation Schedule

Irrigation Type & Qty. of Valves	***Cycles per day***	***Watering days/we***		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Tree Bubbler (LW)	2	3		2	2	3	3	4	4	5	4	4	3	2	2	Min/Day per Valve
3				**6**	**7**	**8**	**10**	**12**	**12**	**14**	**13**	**11**	**9**	**7**	**5**	**Total Min/Day**
Shrub Drip Emitter (LW)	2	3		12	16	18	22	26	27	31	27	24	19	14	11	Min/Day per Valve
9				**110**	**144**	**161**	**197**	**231**	**244**	**276**	**246**	**213**	**171**	**130**	**100**	**Total Min/Day**
Turf Spray (MW)	2	3		5	7	8	9	11	11	13	11	10	8	6	5	Min/Day per Valve
4				**21**	**27**	**30**	**37**	**43**	**46**	**52**	**46**	**40**	**32**	**24**	**19**	**Total Min/Day**

Total Valve Count
16

NOTE TO PROPERTY OWNER - The above irrigation schedule tells you how often and how long to run your irrigation system. Your irrigation should be programmed to run a maximum of three (3) days per week for each valve between the hours of 7:00 PM and 10:00 AM. Depending on the soil type and slope of your yard you may have to split the run time into 2 or 3 shorter cycles during one night in order to avoid the water running off your yard. These numbers are based on the historical average weather for the area and may need to be slightly adjusted based on the actual weather conditions each year. By following the irrigation schedule shown above you will likely save in excess of 20% of your annual water use for landscape irrigation and keep your plants healthy by not overwatering.

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	RAIN BIRD XCZ-075-PRF	3/4"	DRIP EMITTER	4.5	428.5	42.4		0.13 in/h
2	RAIN BIRD PEB	1"	BUBBLER	1.5	422.1	31.4		1.08 in/h
3	RAIN BIRD XCZ-075-PRF	3/4"	DRIP EMITTER	5.79	377.5	46.4		0.12 in/h
4	RAIN BIRD PEB	1"	SHRUB SPRAY	11.93	329.1	34.5		0.83 in/h
5	RAIN BIRD PEB	1"	SHRUB SPRAY	12.02	320.5	34.2		0.83 in/h
6	RAIN BIRD XCZ-075-PRF	3/4"	DRIP EMITTER	4.3	308.8	41.9		0.1 in/h
7	RAIN BIRD PEB	1"	SHRUB SPRAY	11.94	260.8	34.6		0.78 in/h
8	RAIN BIRD PEB	1"	SHRUB SPRAY	12.09	251.7	33.5		0.78 in/h
9	RAIN BIRD PEB	1"	BUBBLER	1	212.7	31.3		1.06 in/h
10	RAIN BIRD XCZ-075-PRF	3/4"	DRIP EMITTER	2.1	206.3	37.3		0.11 in/h
11	RAIN BIRD XCZ-075-PRF	3/4"	DRIP EMITTER	2.3	189.1	37.7		0.09 in/h
12	RAIN BIRD XCZ-075-PRF	3/4"	DRIP EMITTER	4.53	130.6	42.6		0.09 in/h
13	RAIN BIRD XCZ-075-PRF	3/4"	DRIP EMITTER	2.5	470.7	38.0		0.21 in/h
14	RAIN BIRD PEB	1"	BUBBLER	1	482.3	31.3		0.98 in/h
15	RAIN BIRD XCZ-075-PRF	3/4"	DRIP EMITTER	3.6	560.1	40.5		0.15 in/h
16	RAIN BIRD XCZ-075-PRF	3/4"	DRIP EMITTER	3.83	545.1	40.6		0.08 in/h
	Common Wire				696.5			

CRITICAL ANALYSIS

Generated: 2026-04-13 11:53

P.O.C. NUMBER: 01
Water Source Information: Ventura Water (CWO# 25-01-0883)

FLOW AVAILABLE
Point of Connection Size: 1"
Flow Available 18.2 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 85 PSI
Pressure Available: 85 PSI

DESIGN ANALYSIS
Maximum Station Flow: 12.09 GPM
Flow Available at POC: 18.2 GPM
Residual Flow Available: 6.11 GPM

Critical Station: 3
Design Pressure: 30 PSI
Friction Loss: 2.72 PSI
Fittings Loss: 0.27 PSI
Elevation Loss: 0 PSI
Loss through Valve: 13.4 PSI
Pressure Req. at Critical Station: 46.4 PSI
Loss for Fittings: 0.1 PSI
Loss for Main Line: 0.96 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 11.0 PSI
Loss for Master Valve: 0.3 PSI
Critical Station Pressure at POC: 58.7 PSI
Pressure Available: 85 PSI
Residual Pressure Available: 26.3 PSI

REV.	DESCRIPTION	CK'D	APP	DATE
-	PROGRESS SUBMITTAL	-	-	04.13.26
-	PROGRESS SUBMITTAL	-	-	03.20.26
-	PROGRESS SUBMITTAL	-	-	06.13.25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

IRRIGATION CALCULATION

DRN. BY: RL | DES. BY: RL | CK'D. BY: RL

PRINCIPAL ENGINEER — 5 May 2026 DATE

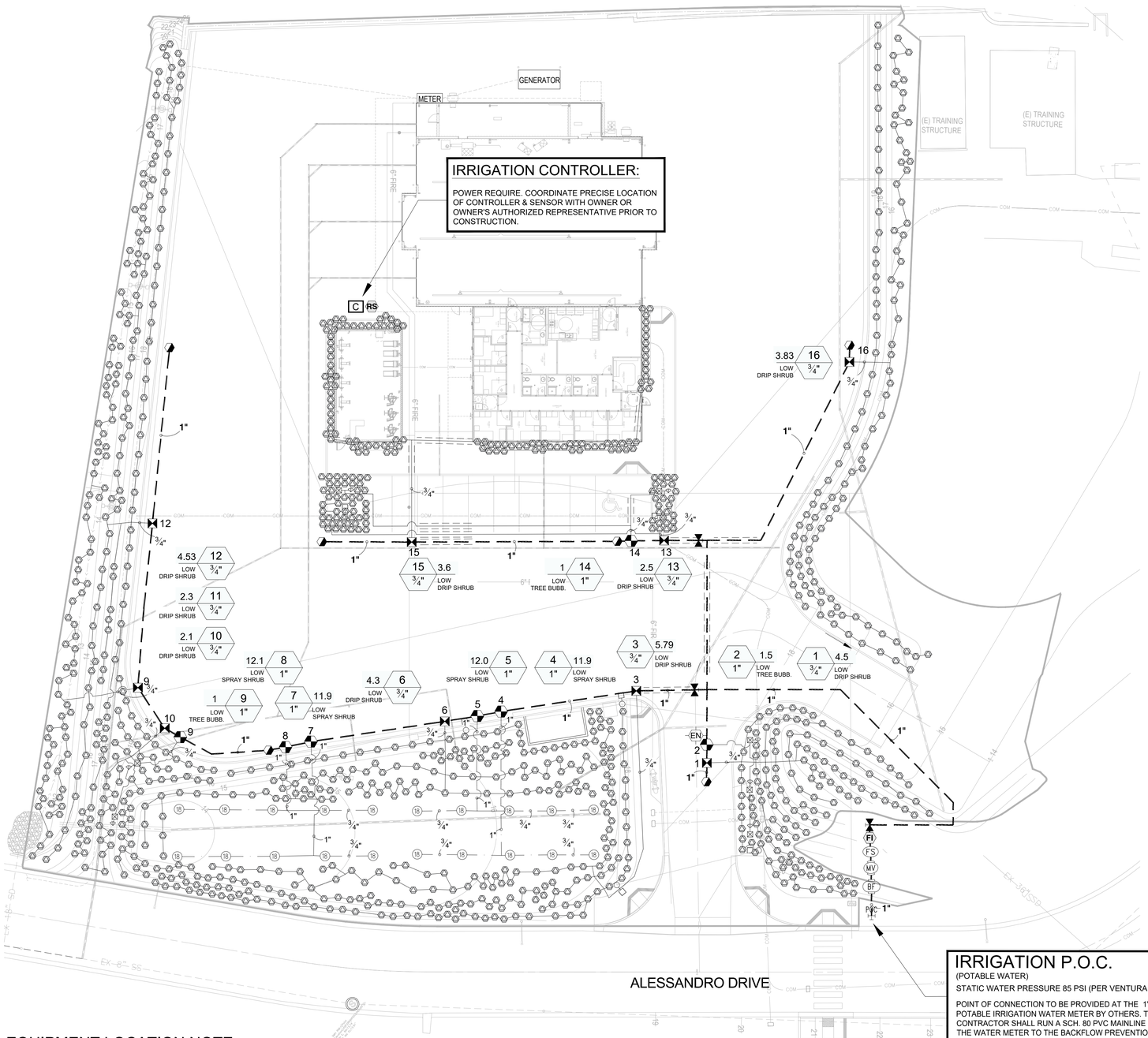
CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010 | PROJECT NO. FA11-1061

April 13, 2026 | SHEET 89 OF 151 | DWG.NO.2025-D-010

PLANS PREPARED BY:
DESIGN STUDIOS
88 N. Oak Street, Suite 1A
Ventura, California 93001
Phone 661-295-1970
Fax 661-295-1969

LICENSED LANDSCAPE ARCHITECT — ROBERT D. LIDDELL — No. 6140 — CA — Signature — JULY 31, 2026 Renewal Date — APR. 13, 2026 Date — STATE OF CALIFORNIA



IRRIGATION P.O.C.

(POTABLE WATER)

STATIC WATER PRESSURE 85 PSI (PER VENTURA WATER)

POINT OF CONNECTION TO BE PROVIDED AT THE 1" DEDICATED POTABLE IRRIGATION WATER METER BY OTHERS. THE CONTRACTOR SHALL RUN A SCH. 80 PVC MAINLINE PIPE FROM THE WATER METER TO THE BACKFLOW PREVENTION DEVICE, NORMALLY OPEN MASTER VALVE AND FLOW SENSOR. LOCATE P.O.C. EQUIPMENT IN PLANTING AREA, CONFIRM FINAL LOCATION WITH THE OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO CONSTRUCTION.

EQUIPMENT LOCATION NOTE

1. INSTALL ALL IRRIGATION EQUIPMENT, PRESSURE MAIN LINE PIPING, CONTROL VALVES, ETC. WITHIN PLANTING AREA - ANY IRRIGATION EQUIPMENT SHOWN OUTSIDE OF PLANTING AREA IS FOR DRAWING CLARITY (TYPICAL).
2. AUTOMATIC CONTROLLER AND ALL OTHER IRRIGATION EQUIPMENT LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE. STAKE OUT IRRIGATION EQUIPMENT LOCATIONS FOR REVIEW AND APPROVAL BY OWNER PRIOR TO INSTALLATION. FINAL LOCATION AND EXACT POSITIONING SHALL BE DETERMINED BY OWNER. MINOR MODIFICATIONS OF IRRIGATION EQUIPMENT LOCATIONS AS REQUESTED BY THE OWNER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. FAILURE TO OBTAIN OWNER'S APPROVAL PRIOR TO INSTALLATION SHALL CAUSE CONTRACTOR TO MAKE OWNER DIRECTED REVISIONS AT NO ADDITIONAL COST TO OWNER.
3. REMOTE CONTROL VALVE, QUICK COUPLING VALVE AND GATE VALVE, ETC. LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE. THE CONTRACTOR SHALL STAKE OUT EACH ELECTRIC CONTROL VALVE, QUICK COUPLING VALVE AND GATE VALVE, ETC. LOCATION FOR REVIEW AND APPROVAL BY OWNER PRIOR TO INSTALLATION OF VALVES. SEE DETAILS FOR ADDITIONAL VALVE INSTALLATION INFORMATION. FINAL LOCATION AND EXACT POSITIONING OF IRRIGATION EQUIPMENT SHALL BE APPROVED BY THE OWNER. MINOR MODIFICATIONS OF IRRIGATION EQUIPMENT LOCATIONS AS REQUESTED BY THE OWNER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. FAILURE TO OBTAIN OWNER'S APPROVAL PRIOR TO INSTALLATION SHALL CAUSE CONTRACTOR TO MAKE OWNER DIRECTED REVISIONS AT NO ADDITIONAL COST TO OWNER.
4. VALVES SHALL NOT BE INSTALLED IN TURF. INSTALL VALVES IN NEAREST NON-TURF PLANTED AREA.

IRRIGATION SLEEVE SIZES

PIPE SIZE	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
SLEEVE SIZE	3"	3"	3"	4"	4"	4"	6"

NOTE: IRRIGATION CONTROL WIRE CONDUIT SIZE SHALL BE 4"

SLEEVES ARE REQUIRED FOR ALL IRRIGATION PIPING INSTALLED UNDER PAVING AREAS. REFER TO IRRIGATION SLEEVE SIZING CHART SHOWN ON THIS SHEET FOR IRRIGATION SLEEVE SIZE (TYPICAL). NOTE: FOR DRAWING CLARITY ALL IRRIGATION SLEEVES ARE NOT SIZED, BUT SHALL BE INSTALLED AND INCLUDED AS PART OF THE CONTRACTOR'S BID. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE ITSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, FOOTINGS, ETC. AND COORDINATE ITS WORK WITH OTHER TRADES FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER FOOTINGS, UNDER ROADWAYS, UNDER PAVING, STRUCTURES, ETC.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
4 6 8 10 4 6 8 10 12 15 18	RAIN BIRD 1800-PA-8S-PRS ADJ SHRUB SPRAY ON FIXED RISER WITH THE PA-8S-PRS 30 PSI PRESSURE REGULATING SHRUB ADAPTER. USE WITH 1/2" MPT THREADED RISERS.	20	30
1401 1402 1404 1408	RAIN BIRD 1804-SAM-PRS-1400 FLOOD 1401 FLOOD BUBBLER 4.0" POPUP WITH CHECK VALVE AND PRESSURE REGULATOR. INSTALL W/ PA-80 ADAPTER.	7	30
1401 1402 1404 1408	RAIN BIRD RWS-B-C-SOCK 1401 ROOT WATERING SYSTEM WITH 4.0" DIAMETER X 36.0" LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE. CHECK VALVE AND SAND SOCK. RAIN BIRD BUBBLER OPTION AS INDICATED: 1401 0.25 GPM, 1402 0.5 GPM, 1404 1.0 GPM, 1408 2.0 GPM.	7	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD XCZ-075-PRF LOW FLOW DRIP CONTROL KIT, 3/4" LOW FLOW VALVE, 3/4" PRESSURE REGULATING RBY FILTER, AND 30PSI PRESSURE REGULATOR. 0.2GPM-5GPM.	9
	SHRUB EMITTER SALCO PRO-SPEC EMITTER SLV-PST-CV-2; 1/2" FIPT (PST) INLET ON SALCO IH RISER; MARLEX FITTING; PVC TEE	1,004

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD PEB 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	7
	HUNTER HQ-33DLRC QUICK COUPLER VALVE, YELLOW LOCKING RUBBER COVER, RED BRASS AND STAINLESS STEEL, WITH 3/4" NPT INLET, 2-PIECE BODY.	6
	NIBCO T-113 CLASS 125 BRONZE GATE SHUT OFF VALVE WITH WHEEL HANDLE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4IN. - 3IN.	3
MV	SUPERIOR 3200 1" NORMALLY CLOSED BRASS MASTER VALVE THAT PROVIDES DIRTY WATER PROTECTION AND NO MINIMUM FLOW FEATURE, WHICH ENSURES RELIABLE OPENING AND CLOSING OF THE VALVE IN EXTREME HIGH OR LOW FLOW SCENARIOS. AVAILABLE IN 3/4IN.,1IN.1-1/2IN.,2IN.,2-1/2IN. AND 3IN..	1
BF	FEBCO 825YA 1" REDUCED PRESSURE BACKFLOW PREVENTER	1
C	HUNTER PCC-1200 LIGHT COMMERCIAL & RESIDENTIAL CONTROLLER, 12-STATION FIXED CONTROLLER, 120 VAC, OUTDOOR MODEL	1
RS	HUNTER SOLAR-SYNC-SEN SOLAR, RAIN FREEZE SENSOR WITH OUTDOOR INTERFACE, CONNECTS TO HUNTER X-CORE AND ACC CONTROLLERS, INSTALL AS NOTED. INCLUDES GUTTER MOUNT BRACKET. WIRED. MODULE NOT INCLUDED.	1
FS	CREATIVE SENSOR TECHNOLOGY FSI-T10-001 1IN. PVC TEE TYPE FLOW SENSOR W/SOCKET ENDS, CUSTOM MOUNTING TEE AND ULTRA-LIGHTWEIGHT IMPELLER ENHANCES LOW FLOW MEASUREMENT. 2 WIRE DIGITAL OUTPUT COMPATIBLE W/ALL IRRIGATION CONTROLLERS. FLOW RANGE: .86 GPM - 52 GPM.	1
FI	EZ-FLO FERTILIZING SYSTEMS EZ001-CX ONE SYSTEM FEEDS ALL ZONES, DRIP OR SPRINKLER. USED FOR SMALLER COMMERCIAL LANDSCAPES, RESIDENTIAL, HOA'S, MODEL HOMES, AND GROWER APPLICATIONS. INSTALL DIRECTLY IN THE IRRIGATION SYSTEM MAIN LINE AFTER THE BACK FLOW PREVENTER. TANK CAPACITY: 1.5 G.	1
EN	STRONG BOX SBBC-35SS HIGH PROFILE, TUBE AND WIRE CONSTRUCTION SMOOTH TOUCH SURFACE, FRONT ENTRY STAINLESS STEEL BACKFLOW ENCLOSURE.	1
POC	POINT OF CONNECTION 1" VENTURA WATER (CWO# 25-01-0883)	1
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	5,208 LF
	IRRIGATION LATERAL LINE: UVR PVC SCHEDULE 40	256.4 LF
	IRRIGATION MAINLINE: PVC SCHEDULE 40	696.5 LF
	PIPE SLEEVE: PVC SCHEDULE 40	192.2 LF

Valve Callout
Valve Number
Valve Flow
Valve Size

Scale: 1" = 20'-0"
0 5' 10' 20' 40'

REV.	DESCRIPTION	CK'D	APP	DATE
-	PROGRESS SUBMITTAL	-	-	04.13.26
-	PROGRESS SUBMITTAL	-	-	03.20.26
-	PROGRESS SUBMITTAL	-	-	06.13.25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

IRRIGATION PLAN

DRN. BY: RL | DES. BY: RL | CK'D. BY: RL

PRINCIPAL ENGINEER — DATE: 5 May 2026

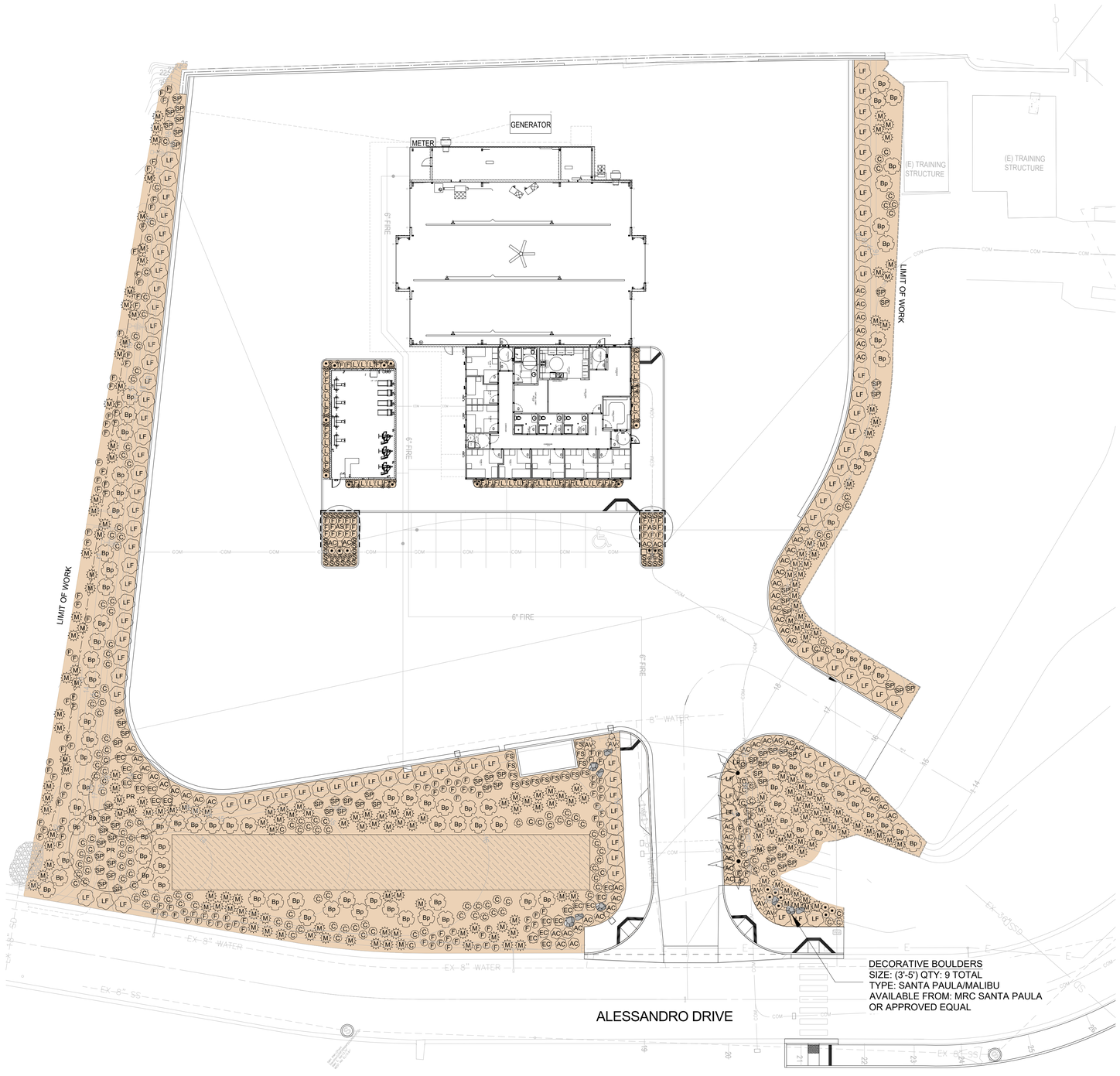
CITY ENGINEER — DATE: 5/7/2026

SPEC. NUMBER 2025-010 | PROJECT NO. FA11-1061

April 13, 2026 | SHEET 90 OF 151 | DWG.NO.2025-D-010

PLANS PREPARED BY:
DESIGN STUDIOS
LANDSCAPE ARCHITECTURE
88 N. Oak Street, Suite 1A
Ventura, California 93001
Phone 661-295-1970
Fax 661-295-1969

LICENSED LANDSCAPE ARCHITECT — ROBERT LEE — No. 6161 — Signature — JULY 31, 2026 — Renewal Date — APR. 13, 2026 — STATE OF CALIFORNIA



PLANT SCHEDULE

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	WUCOLS	FORM	QTY	REMARKS
TREES							
AS	ACACIA STENOPHYLLA	SHOESTRING ACACIA	24" BOX	LOW	STANDARD	2	
PR	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	24" BOX	MODERATE	STANDARD	2	
	WASHINGTONIA ROBUSTA	MEXICAN FAN PALM	12` BTH	LOW		3	

SYMBOL	BOTANICAL NAME	COMMON NAME	CONT	WUCOLS	SPACING	QTY	REMARKS
SHRUBS							
	ACHILLEA X 'MOONSHINE'	MOONSHINE YARROW	1 GAL	LOW		24	
AV	AGAVE VILMORINIANA	OCTOPUS AGAVE	5 GAL	LOW		5	
	ALOE STRIATA	CORAL ALOE	5 GAL	LOW		56	
AC	ARCTOSTAPHYLOS EDMUNDSII 'CARMEL SUR'	CARMEL SUR LITTLE SUR MANZANITA	1 GAL	LOW		56	
Bp	BACCHARIS PILULARIS 'PIGEON POINT'	PIGEON POINT COYOTE BRUSH	1 GAL	LOW		91	
C	CHONDROPETALUM TECTORUM 'EL CAMPO'	EL CAMPO CAPE RUSH	5 GAL	LOW		155	
EC	EPILOBIUM CANUM	CALIFORNIA FUCHSIA	5 GAL	VERY LOW		18	
FS	FEIJOA SELLOWIANA	PINEAPPLE GUAVA	5 GAL	LOW		14	
F	FESTUCA MAIREI	ATLAS FESCUE	1 GAL	LOW		179	
LF	LESSINGIA FILAGINIFOLIA 'SILVER CARPET'	SILVER CARPET ASTER	1 GAL	LOW		95	
L	LEUCADENDRON X 'RED GEM'	RED GEM CONEBUSH	5 GAL	LOW		27	
M	MUHLENBERGIA RIGENS	DEER GRASS	1 GAL	LOW		194	
SP	SALVIA X 'POZO BLUE'	POZO BLUE SAGE	5 GAL	VERY LOW		59	
S	SENECIO MANDRALISCAE	BLUE FINGERS	1 GAL	LOW		33	

SYMBOL	BOTANICAL NAME	COMMON NAME	CONT	WUCOLS	SPACING	QTY	REMARKS
GROUND COVERS							
	FRAGARIA CHILOENSIS	BEACH STRAWBERRY	FLAT	LOW	36" o.c.	349	

PLANTING NOTES:

1. A MINIMUM 3-INCH LAYER OF MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS EXCEPT TURF AREAS, CREEPING OR ROOTING GROUNDCOVERS, OR DIRECT SEEDING APPLICATIONS WHERE MULCH IS CONTRAINDICATED.
2. MULCH:
   IN ALL SHRUB, TURF BLOCK, AND GROUND COVER AREAS, APPLY 3" DEEP ORGANIC RECYCLED CHIPPED WOOD IN DARK BROWN (SIZE SHALL NOT EXCEED 1-1/2" IN DIAMETER). CONTRACTOR SHALL SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL.
3. ROOT BARRIERS: - - - -
   ROOT BARRIER BY CENTURY PRODUCTS. REFER TO PLANTING SPECIFICATIONS. SEE DETAIL SHEET LPD.01.
4. FOR SOILS LESS THAN 6% ORGANIC MATTER IN THE TOP 6 INCHES OF SOIL, COMPOST AT A RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED TO A DEPTH OF SIX INCHES INTO THE SOIL.
5. SOIL PREPARATION:
   (FOR BID PURPOSES ONLY) PENDING SOILS TEST AND RECOMMENDATIONS
   (SOIL PREPARATION PER 1,000 S.F.)
   - 4 CU. YARDS NITROLIZED WOOD SHAVINGS OR EQUAL
   - 100 LBS. GYPSUM
   - 150 LBS. GROW POWER PLUS

   REFER TO AGRONOMIC SOILS REPORT AND PLANTING SPECIFICATIONS FOR SOIL PREPARATION NOTES.
   CONTRACTOR TO COLLECT SOIL SAMPLE DURING CONSTRUCTION AND SUBMIT FOR SOIL REPORT.

Scale: 1" = 20'-0"
0 5' 10' 20' 40'

6. INSTALLATION:
   - THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES OR STRUCTURES.
   - DO NOT WILLFULLY PROCEED WITH PLANTING OPERATIONS AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING THE DESIGN PROCESS. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO THE FAILURE TO GIVE SUCH NOTIFICATION PRIOR TO BEGINNING WORK.
   - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH PLANTING OPERATIONS.
   - REFER TO THE SPECIFICATIONS FOR PLANTING REQUIREMENTS, MATERIALS AND EXECUTION.
7. TREE STAKING:
   CONTRACTOR TO STAKE ALL TREES IN FIELD FOR APPROVAL PRIOR TO INSTALLATION.
8. MAINTENANCE:
   CONTRACTOR SHALL PROTECT AND MAINTAIN IN PLACE ALL EXISTING PLANT MATERIAL UNLESS SPECIFICALLY DIRECTED OTHERWISE BY OWNER/LANDSCAPE ARCHITECT. ALL PLANT MATERIAL REMOVED OR DAMAGED SHALL BE REPLACED WITH NEW PLANT MATERIAL OF EQUAL SIZE AT THE DISCRETION OF THE OWNER/LANDSCAPE ARCHITECT.
9. MAINTENANCE:
   CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING AND MAINTAINING THE HEALTH OF ALL PLANT MATERIAL UNTIL MAINTENANCE TURNOVER TO THE CITY. AT TIME OF TURNOVER ANY PLANT MATERIAL THAT IS NOT IN A HEALTHY STATE, AS DETERMINED BY THE CITY, SHALL BE REPLACED TO THE SATISFACTION OF THE CITY.
10. ALL PLANTING AREAS ON SLOPES SHALL RECEIVE A COCONUT FIBER DOUBLE BET BLANKET COVER FROM ROLLS. FIBER SHALL BE AS MANUFACTURED BY NORTH AMERICAN GREEN #C125. INSTALL AND STAKE PER MANUFACTURER'S SPECIFICATIONS. INSTALL OVER IRRIGATION PIPES AND STAPLE AT 12" MAXIMUM FROM EITHER SIDE OF PIPE AT NORMAL INTERVALS DENOTED BY MANUFACTURER.

REV.	DESCRIPTION	CK'D	APP	DATE
-	PROGRESS SUBMITTAL	-	-	04.13.26
-	PROGRESS SUBMITTAL	-	-	03.20.26
-	PROGRESS SUBMITTAL	-	-	06.13.25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

PLANTING PLAN

DRN. BY: RL	DES. BY: RL	CK'D. BY: RL

PRINCIPAL ENGINEER — 5 May 2026 DATE

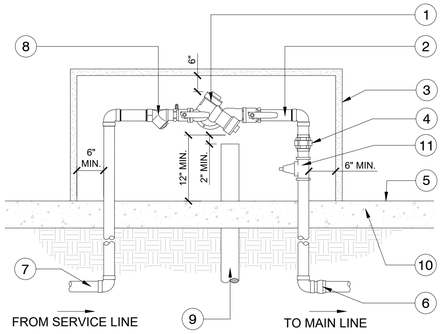
CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010 | PROJECT NO. FA11-1061

April 13, 2026 | SHEET 91 OF 151 | DWG.NO.2025-D-010

PLANS PREPARED BY:
DESIGN STUDIOS LANDSCAPE DEVELOPMENT LLC
88 N. Oak Street, Suite 1A
Ventura, California 93001
Phone 661-295-1970
Fax 661-295-1969

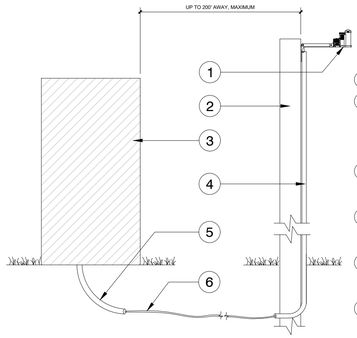
LICENSED LANDSCAPE ARCHITECT — ROBERT L. HALL — No. 4772 — Signature — JULY 31, 2026 Renewal Date — APR. 13, 2026 Date — STATE OF CALIFORNIA



1. BACKFLOW PREVENTER UNIT WITH BALL VALVES, REFER TO IRRIGATION SCHEDULE
2. BRASS NIPPLES (TYP.)
3. VANDAL RESISTANT ENCLOSURE PER IRRIGATION SCHEDULE
4. BRASS UNION
5. FINISH SURFACE
6. PVC ADAPTER AND PIPE TO VALVES
7. TO POINT OF CONNECTION, ADAPT AS NECESSARY. ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES
8. BRASS WYE STRAINER WITH 60 MESH SCREEN
9. 4" DRAIN PIPE. EXTEND DRAIN PIPE TO DISCHARG THROUGH CURB OR AS DIRECTED BY OWNER
10. 8" THICK CONCRETE BASE. EXTEND MIN.6" BEYOND SIDES OF ENCLOSURE
11. PRESSURE REGULATOR AS REQUIRED PER LEGEND

C BACKFLOW

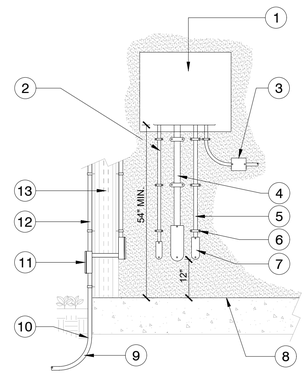
3/4" = 1'-0" P-FI-IRR-02



1. SOLAR SYNC SENSOR
2. SUITABLE POST, POLE, GUTTER MOUNT. MOUNT IN LOCATION THAT MAXIMIZES DIRECT SUNLIGHT. OPEN TO RAINFALL AND OUT OF SPRINKLER SPRAY PATTERN.
3. IRRIGATION CONTROLLER, REFER TO IRRIGATION SCHEDULE FOR MANUFACTURER AND MODEL.
4. CONDUIT FROM SOLAR SYNC SENSOR TO CONTROLLER OR TO A POINT 12" BELOW GRADE.
5. CONDUIT FOR VALVE CONTROL WIRE AND SOLAR SYNC COMMUNICATION WIRE.
6. COMMUNICATION WIRE, 18-2 (WIRE TYPE TO MEET INSTALLATION REQUIREMENTS), FROM MODULE TO SENSOR, MAXIMUM TOTAL WIRE DISTANCE, 200 FEET.

B SOLAR SYNC SENSOR

1" = 1'-0" P-FI-IRR-03



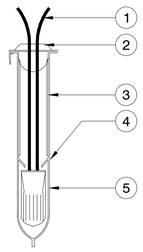
1. WALL-MOUNT CONTROLLER, REFER TO IRRIGATION SCHEDULE
2. 1" CONDUIT FOR RAIN SENSOR (IF RAINS SENSOR IS SPECIFIED)
3. 1" CONDUIT, SWEEP AND J-BOX FOR ELECTRICAL POWER SUPPLY, REFER TO ELECTRICAL ENGINEER'S PLANS
4. 2" CONDUIT FOR RCV WIRES, MCV WIRES AND FS WIRES
5. 1 1/4" CONDUIT FOR GROUND WIRE
6. CONDUIT SUPPORTS, 12" O.C. (TYP.)
7. JUNCTION BOX, SIZE PER CONDUIT (TYP.)
8. FLOOR OF BUILDING, REFER TO ARCHITECT'S PLANS
9. EXTEND CONDUIT A MIN. OF 12" FROM THE EDGE OF BUILDING
10. PVC CONDUIT AND SWEEP, SIZE TO MATCH INTERIOR
11. WEATHER PROOF STEEL JUNCTION BOX
12. 3/4" STEEL CONDUIT TO RAIN SENSOR
13. BUILDING WALL, REFER TO ARCHITECT'S PLANS

NOTES:

1. CONTROLLER ACCEPTS 120 VOLTS A.C.
2. MOUNT CONTROLLER LCD SCREEN AT EYE LEVEL, LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALL. CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 VAC POWER SOURCE.
3. REFER TO MANUFACTURER'S INSTALLATION GUIDE FOR FURTHER INSTRUCTIONS.
4. DETAIL SHOWS FRONT VIEW OF CONTROLLER & A SIDE VIEW EXAMPLE OF A WALL PENETRATION. EACH CONDUIT REQUIRES A J-BOX ON THE INTERIOR & EXTERIOR OF THE BUILDING.

A WALL MOUNTED IRRIGATION CONTROLLER

1" = 1'-0" P-FI-IRR-18



1. LOW VOLTAGE WIRES, 3 MAX.
2. WIRES PASS THROUGH GROOVES IN TUBE LID TO CLOSE
3. POLY TUBE PRE-FILLED WITH WATERPROOF GEL
4. LOCK TABS PREVENT WIRE REMOVAL ONCE CONNECTOR IS INSERTED
5. SCOTCHLOK ELECTRICAL SPRING CONNECTOR. WIRES SHALL BE PRE-STRIPPED OF 1/2" OF THE INSULATION PRIOR TO INSERTION INTO THE CONNECTOR. TWIST CONNECTOR ONTO WIRES TO SEAT FIRMLY.

   SCOTCHLOK CONNECTOR AND WIRES INSERTED INTO TUBE UNTIL THE CONNECTOR PASSES LOCK TABS

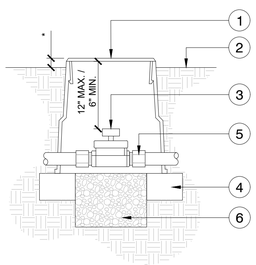
NOTES:

1. WIRE CONNECTOR SHALL BE A 3M DBY-6 DIRECT BURY SPLICE KIT (U.L. APPROVED)
2. KIT SHALL INCLUDE A SCOTCHLOK Y SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PREFILLED WITH GEL
3. DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT 2-3 #14 OR 2 #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION

G WIRE CONNECTORS

3/4" = 1'-0" P-FI-IRR-07

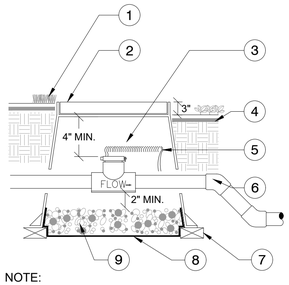
* 2" IN TURF /
1" IN PLANTER AREA



1. 10" ROUND PLASTIC VALVE BOX WITH LOCKABLE LID, INCISE 'BV' INTO LID
2. FINISH GRADE
3. BALL VALVE, REFER TO IRRIGATION SCHEDULE
4. BRICK (TYP.), 4 REQUIRED
5. PVC MALE ADAPTER
6. 8" MIN. LAYER OF PEA GRAVEL

F SHUT OFF VALVE

1 1/2" = 1'-0" P-FI-IRR-06



1. FINISHED GRADE IN TURF AREAS
2. PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER, USE STAINLESS STEEL BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND "FS" ONTO LID.
3. FLOW SENSOR, SEE LEGEND FOR SPEC.
4. FINISHED GRADE IN SHRUB AREAS
5. 24" WIRE LOOP
6. PVC MAINLINE PIPE PER SPEC.
7. BRICK SUPPORTS
8. LANDSCAPE FABRIC
9. 3/4" ROCK, (2) CUBIC FT.

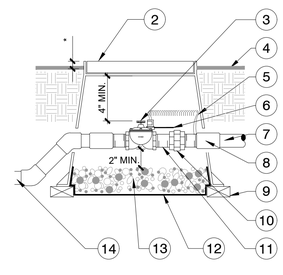
NOTE:

1. INSTALL FLOW SENSOR AS PER THE MANUFACTURER'S RECOMMENDATIONS, WIRE TO IRRIGATION CONTROLLER. USE 45° ELLS TO ACHIEVE MAINLINE DEPTH ON THE DOWN-STREAM SIDE OF THE FLOW SENSOR.

E FLOW SENSOR

1" = 1" P-FI-IRR-05

* 2" IN SHRUB AREA / 1" IN TURF AREA



1. FINISHED GRADE IN TURF AREAS
2. PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER, USE STAINLESS STEEL BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND "MV" ONTO LID
3. MASTER CONTROL VALVE, SEE LEGEND FOR SPEC
4. FINISHED GRADE
5. 24" WIRE LOOP WITH WATER PROOF WIRE CONNECTORS. USE WHITE AND RED COLOR WIRES WITH STRIPE
6. VALVE ID TAGS
7. PRESSURE MAINLINE TO FLOW SENSOR
8. PVC SCH 40 FEMALE ADAPTER, (2) REQUIRED
9. BRICK SUPPORTS
11. SCH. 80 PVC NIPPLE
12. LANDSCAPE FABRIC
13. 3/4" ROCK, (2) CUBIC FT.
14. PVC MAINLINE PIPE FROM BACKFLOW PER SPECS.

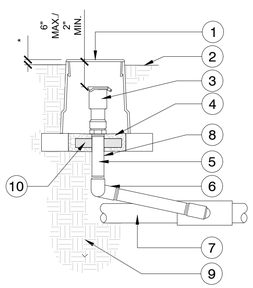
NOTES:

1. USE 45° ELLS TO ACHIEVE MAINLINE DEPTH FROM UP-STREAM SIDE OF THE MASTER VALVE.

D MASTER VALVE

NTS P-FI-IRR-04

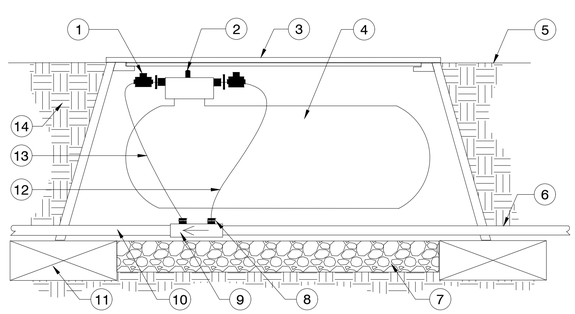
* 2" IN TURF AREA /
1" IN SHRUB AREA



1. 10" ROUND PLASTIC VALVE BOX
2. FINISH GRADE
3. QUICK COUPLING VALVE WITH LOCKABLE CAP, REFER TO IRRIGATION SCHEDULE
4. 3/4" GRAVEL, 1 CUBIC FOOT
5. SCHEDULE 80 NIPPLE
6. SCHEDULE 40 SWING JOINT
7. PVC MAINLINE
8. STAINLESS STEEL SCREW CLAMP
9. #6 X 18" REBAR
10. 1"x8"x8" REDWOOD DEADMAN WITH HOLE DRILLED FOR NIPPLE

I QUICK COUPLER

1 1/2" = 1'-0" P-FI-IRR-09



1. EZ-FLO SHUT OFF VALVE
2. PROPORTIONING CAP WITH FEED ADJUSTMENT KNOB
3. JUMBO VALVE BOX AND COVER, HEAT BRAND "EZ" INTO LID
4. EZ-FLO FERTILIZING SYSTEM. REFER TO IRRIGATION SCHEDULE FOR MODEL
5. FINISH GRADE
6. PVC MAINLINE
7. PEA GRAVEL (1 CU. FT.)
8. 1/4" TUBING CLAMP - BOTH THE GREEN AND BLUE COUPLING TUBING CONNECTIONS
9. EZ-FLO CBV-XXX OR CBVT-XXX BALL COUPLING VALVE - LINE SIZE. INSTALL ACCORDING TO WATER FLOW DIRECTION ARROW
10. PVC MAINLINE TO VALVE MANIFOLD
11. BRICK SUPPORT (4) PER BOX
12. WATER IN-CONNECT BLACK TUBE TO BLUE CONNECTIONS ON PROPORTIONING CAP AND COUPLING
13. FERTILIZER OUT-CONNECT CLEAR TUBE TO GREEN CONNECTIONS ON PROPORTIONING CAP AND COUPLING
14. APPROVED BACKFILL

H IRRIGATION FERTILIZER INJECTOR

1 1/2" = 1'-0" P-FI-IRR-08

REV.	DESCRIPTION	CK'D	APP	DATE
-	PROGRESS SUBMITTAL	-	-	04.13.26
-	PROGRESS SUBMITTAL	-	-	03.20.26
-	PROGRESS SUBMITTAL	-	-	06.13.25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

IRRIGATION DETAILS

DRN. BY: RL	DES. BY: RL	CK'D. BY: RL

5 May 2026
PRINCIPAL ENGINEER DATE

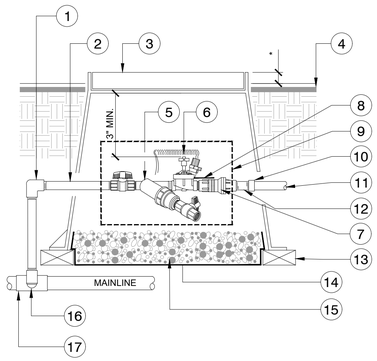
5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010	PROJECT NO. FA11-1061
April 13, 2026	SHEET 92 OF 151	DWG.NO.2025-D-010

PLANS PREPARED BY:
DESIGN STUDIOS
LANDSCAPE ARCHITECTURE & PLANNING, LLC
88 N. Oak Street, Suite 1A
Ventura, California 93001
Phone 661-295-1970
Fax 661-295-1969

LICENSED LANDSCAPE ARCHITECT
ROBERTO GUTIERREZ
No. 6407
Signature
JULY 31, 2026
Renewal Date
APR. 13, 2026
Date
STATE OF CALIFORNIA

* 2" IN TURF /
1" IN PLANTER AREA

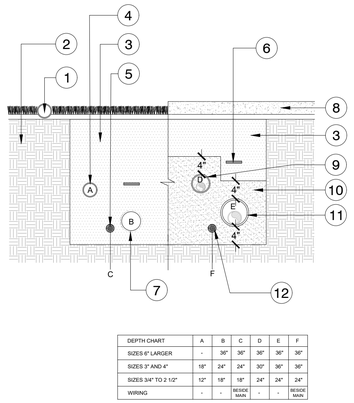


1. PVC SCH 40 ELL
2. PVC SCH 80 NIPPLE (TYPICAL, LENGTH AS REQUIRED)
3. PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER, USE STAINLESS BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND 'RCV' AND CONTROL STATION # ONTO LID.
4. FINISHED GRADE IN SHRUB AREAS
5. FILTER
6. R.C.V.
7. PRESSURE REG.
8. CHRISTY'S VALVE ID TAG
9. CONTROL ZONE KIT, REFER TO IRRIGATION SCHEDULE FOR MANUFACTURER AND MODEL.
10. PVC SCH 40 MALE ADAPTER
11. PVC LATERAL TO DRIP SYSTEM
12. PVC SCH 80 NIPPLE
13. BRICK SUPPORTS (4 REQ.)
14. LANDSCAPE FABRIC
15. 3/4" ROCK, 2 CUBIC FT. 3" MINIMUM DEPTH
16. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
17. PVC SCH 40 TEE OR ELL

C DRIP REMOTE CONTROL VALVE

1" = 1"

P-FI-IRR-12



DEPTH CHART	A	B	C	D	E	F
SIZES 6" LARGER	-	36"	36"	36"	36"	36"
SIZES 3" AND 4"	18"	24"	24"	30"	36"	36"
SIZES 3/4" TO 2 1/2"	12"	18"	18"	24"	24"	24"
WIRING	-	-	BESIDE MAIN	-	-	BESIDE MAIN

1. ON-GRADE LATERAL PIPE, WHEN SPECIFIED
2. UNDISTURBED SOIL
3. COMPACTED BACKFILL
4. LATERAL LINE
5. 2-WIRE CABLE WITHIN ELECTRICAL CONDUIT
6. MAINLINE TRACER TAPE OR AWG #6 BARE COPPER TRACER WIRE, REFER TO LEGEND FOR SPECIFICATION
7. MAINLINE, REFER TO LEGEND FOR SPECIFICATION
8. ROADWAY / PAVING
9. LATERAL LINE SLEEVE
10. SAND BACKFILL; FILL TO 4" ABOVE, AND 4" BELOW SLEEVE
11. MAINLINE SLEEVE
12. CONTROL WIRE SLEEVE FOR CONVENTIONAL WIRE OR 2-WIRE CABLE

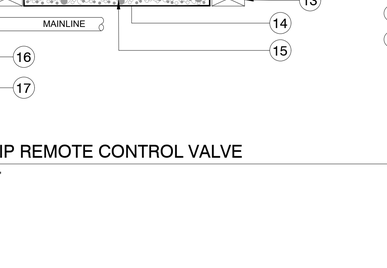
NOTES:

1. ALL PIPE SLEEVE UNDER ASPHALT OR VEHICULAR TRAFFIC PAVING SHALL HAVE 4 INCHES OF SURROUNDING BACKFILL MATERIAL, CONSISTING OF CLEAN SAND, ON ALL SIDES OF PIPE.
2. ALL MAINLINE PIPE 3" AND LARGER SHALL HAVE 4 INCHES OF SURROUNDING BACKFILL MATERIAL, CONSISTING OF CLEAN SAND, ON ALL SIDES OF PIPE.
3. SLEEVE UNDER PEDESTRIAN WALKWAYS SHALL EQUAL DEPTHS INDICATED IN COLUMNS A, B, & C.
4. LINES MUST HAVE IN. CLEARANCE OF 4" FROM EACH OTHER & 12" FROM OTHER TRADES.
5. RUN CONVENTIONAL WIRE BESIDE MAINLINE AT LOCATION SHOWN, TAPE & BUNDLE @ 10' O.C.
6. TIE A 24" LOOP IN ALL WIRING / CABLE AT CHANGES IN DIRECTION, WHEN NOT INSTALLED WITHIN CONDUIT.
7. ALL SLEEVES MUST BE 2X THE DIAMETER OF THE PIPE WITHIN.
8. ALL SLEEVE ENDS MUST BE SEALED WITH FOAM SEALANT INSIDE PIPE TO MINIMIZE DEBRIS INTRUSION.
9. ALL SLEEVES MUST EXTEND 12" MIN. DISTANCE PAST EDGE OF ROADWAY, CURB, OR SIDEWALK.
10. CONTRACTOR MUST ADJUST MAINLINE AROUND ALL STREET LIGHT LOCATIONS, LIGHT BOLLARDS, TREE ROOT BALLS (MIN. 5' CLEARANCE) AND OTHER OBSTACLES.

A PIPE / WIRE / SLEEVE INSTALLATION

N.T.S.

1. TREE, RE: L8.00 SERIES
2. TREE ROOTBALL
3. EDGE OF TREE PLANT PIT. SET BUBBLER AT EDGE OF PLANTING PIT
4. TREE BUBBLER, RE: DETAIL E / LID.02
5. TREE ROOT WATERING BUBBLER, RE: DETAIL F / LID.02
6. FINISH GRADE



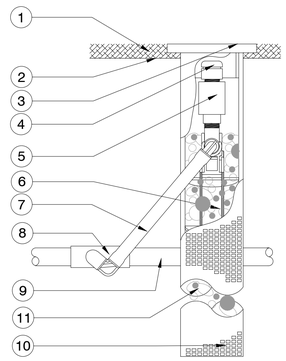
SECTION

H TREE BUBBLER IRRIGATION LAYOUT

N.T.S.

P-FI-IRR-17

1. MULCH
2. FINISH GRADE
3. GRATED CAP
4. BUBBLER AS SPECIFIED
5. CHECK VALVE
6. ROOTZONE WATERING SYSTEM, REFER TO IRRIGATION SCHEDULE FOR MANUFACTURER AND MODEL
7. SWING JOINT
8. LATERAL TEE OR ELL
9. LATERAL PIPE
10. ROOT INTRUSION BARRIER
11. FILL WITH PEA GRAVEL



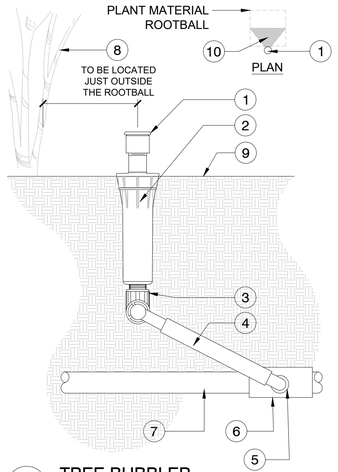
NOTES:

1. BUBBLER TO BE PLACED ROOTBALL ADJACENT AND ON OPPOSITE SIDES OF ROOTBALL

F TREE ROOT WATERING BUBBLER

3" = 1'-0"

P-FI-IRR-14

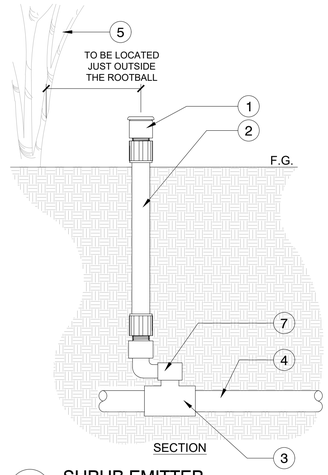


1. BUBBLER, REFER TO IRRIGATION SCHEDULE
2. POP-SPRAY BODY, REFER TO IRRIGATION SCHEDULE
3. 1/2" 90° ELBOW
4. 1/2" SWING ASSEMBLY
5. 1/2" MALE NPT INLET
6. PVC SCH. 40 TEE OR ELL
7. LATERAL PIPE
8. PLANT MATERIAL
9. FINISH GRADE
10. BUBBLER SPRAY PATTERN, DIRECTED TOWARDS PLANT ROOTBALL

E TREE BUBBLER

6" = 1'-0"

P-FI-IRR-15



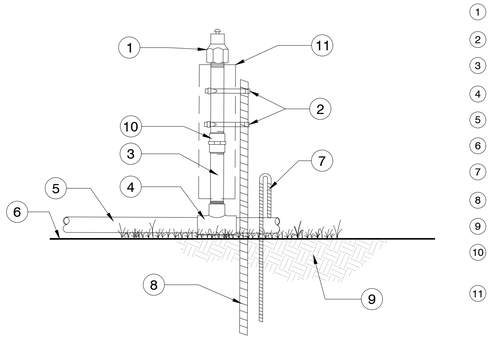
SECTION

1. SALCO EMITTER, RE: IRRIGATION SCHEDULE
2. SALCO 1/2" ADAPTER
3. PVC SCH. 40 TEE
4. LATERAL PIPE
5. PLANT MATERIAL
6. BUBBLER SPRAY PATTERN, DIRECTED TOWARDS PLANT ROOTBALL
7. (2) MARLEX FITTING FOR ADJUSTING EMITTER LOCATION

D SHRUB EMITTER

6" = 1'-0"

P-FI-IRR-13



1. NOZZLE, REFER TO IRRIGATION SCHEDULE
2. HOSE CLAMP X2
3. 1/2" OR 3/4" UVR RISER (LENGTH AS REQUIRED)
4. UVR TEE
5. UVR LATERAL LINE
6. FINISH GRADE
7. 18" J-HOOK @ 10' O.C.
8. REBAR STAKE
9. COMPACTED SUBGRADE
10. CHECK VALVE, HUNTER HCV CHECK VALVE HC-50F-50F, OR APPROVED EQUAL
11. POP-UP BODY, WHERE OCCURS. USE RAINBIRD PROS-12-PRS 40 CV OR EQUAL.

G FIXED SPRAY HEAD

NTS

REV.	DESCRIPTION	CK'D	APP	DATE
-	PROGRESS SUBMITTAL	-	-	04.13.26
-	PROGRESS SUBMITTAL	-	-	03.20.26
-	PROGRESS SUBMITTAL	-	-	06.13.25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

IRRIGATION DETAILS

DRN. BY: RL | DES. BY: RL | CK'D. BY: RL

PRINCIPAL ENGINEER — DATE: 5 May 2026

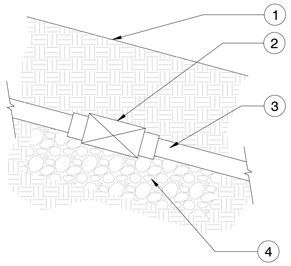
CITY ENGINEER — DATE: 5/7/2026

SPEC. NUMBER 2025-010 | PROJECT NO. FA11-1061

April 13, 2026 | SHEET 93 OF 151 | DWG.NO.2025-D-010

PLANS PREPARED BY:
DESIGN STUDIOS
LANDSCAPE ARCHITECTURE, LLC
88 N. Oak Street, Suite 1A
Ventura, California 93001
Phone 661-295-1970
Fax 661-295-1969

LICENSED LANDSCAPE ARCHITECT — REGISTERED — CA 6477 — Signature — JULY 31, 2026 Renewal Date — APR. 13, 2026 Date — STATE OF CALIFORNIA

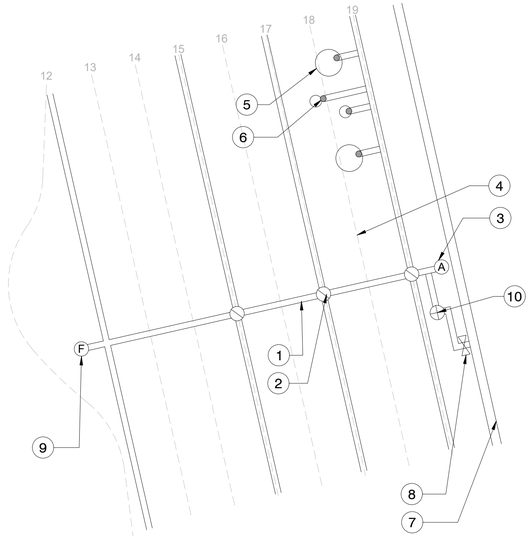


1. FINISH GRADE
2. SWING/SPRING CHECK VALVE
3. SCH 40 PVC LATERAL LINE
4. 6" DEEP 3/4" CRUSHED AGGREGATE BASE

NOTE:
INSTALL A (SLIP X SLIP) SPRING CHECK VALVE FOR FLOWS DOWNHILL FROM RCV. INSTALL A (SLIP X SLIP) SWING CHECK VALVE FOR FLOWS UPHILL OF RCV. INSTALL PER MANUFACTURER'S SPECIFICATIONS

B INLINE CHECK VALVE

N.T.S. P-FI-IRR-21



NOTES:

1. SLOPE 3:1 & GREATER SHALL RECEIVE UVR PIPE AND TYPICAL SLOPE LAYOUT TREATMENT COMMUNICATED IN THE DETAIL
2. INSTALL A (SLIP X SLIP) SPRING CHECK VALVE FOR FLOWS DOWNHILL FROM RCV. INSTALL A (SLIP X SLIP) SWING CHECK VALVE FOR FLOWS UPHILL OF RCV. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
3. CHECK VALVES TO BE LOCATED ON LATERALS FOR EVERY 10 FEET OF ELEVATION DIFFERENCE ALONG THE LINE.

1. LATERAL LINE
2. SWING/SPRING CHECK VALVE.
3. AIR RELIEF VALVE AT HIGHEST ELEVATION OF DRIP ZONE
4. CONTOUR LINE FOR REFERENCE ONLY
5. PLANT ROOTBALL
6. SHRUB EMITTER PER IRRIGATION SCHEDULE
7. IRRIGATION MAINLINE
8. GATE VALVE ON MAINLINE
9. FLUSH VALVE AT LOWEST ELEVATION
10. REMOTE CONTROL VALVE (RCV)

A SHRUB BUBBLER IRRIGATION LAYOUT ON SLOPE

N.T.S. P-FI-IRR-20

PLANS PREPARED BY:
DESIGN STUDIOS LANDSCAPE DEVELOPMENT INC.
88 N. Oak Street, Suite 1A
Ventura, California 93001
Phone 661-295-1970
Fax 661-295-1969

LICENSED LANDSCAPE ARCHITECT ROBERT C. LEE No. 6117 Signature JULY 31, 2026 Renewal Date APR. 13, 2026 Date STATE OF CALIFORNIA

REV.	DESCRIPTION	CK'D	APP	DATE
-	PROGRESS SUBMITTAL	-	-	04.13.26
-	PROGRESS SUBMITTAL	-	-	03.20.26
-	PROGRESS SUBMITTAL	-	-	06.13.25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

IRRIGATION DETAILS

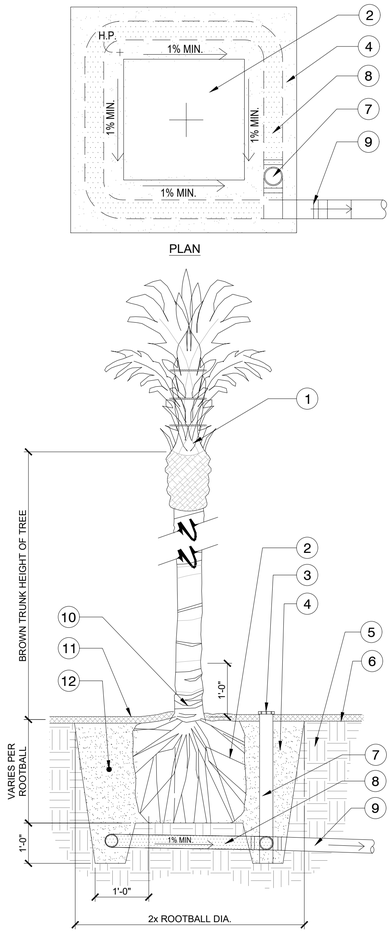
DRN. BY: RL	DES. BY: RL	CK'D. BY: RL

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 PROJECT NO. FA11-1061

April 13, 2026 SHEET 94 OF 151 DWG.NO.2025-D-010



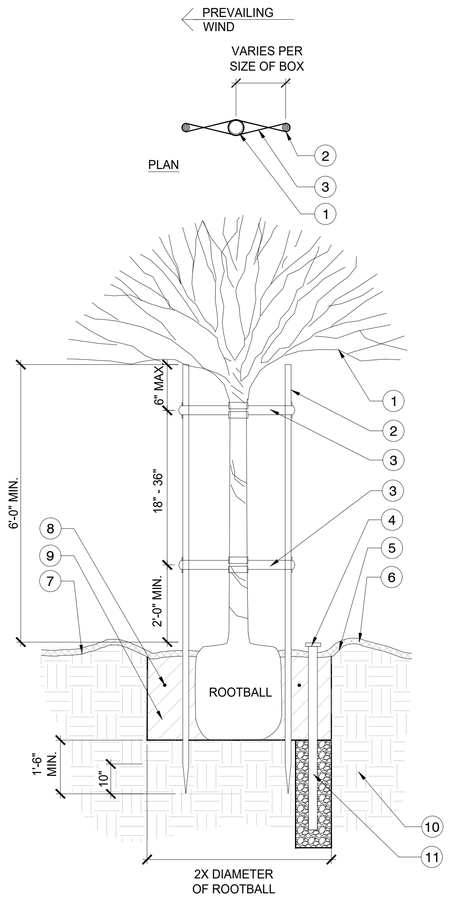
1. PALM FRONDS - TIED AND CROPPED PRIOR TO SHIPPING
2. PALM ROOTBALL - PLANT CROWN AT ORIGINAL GRADE OF ROOTBALL
3. 4" DIA. 'BLACK' GRATE CAP 2" ABOVE FINISH GRADE
4. BACKFILL - 100% CLEAN WASHED SAND PER HOTICULTURAL SOILS REPORT. FIRM BOTTOM SAND LAYER BY WATER JETTING PRIOR TO SETTING TREE
5. UNDISTURBED SOIL
6. FINISH GRADE
7. 4" DIA. SOLID HDPE INSPECTION TUBE EXTEND VERTICALLY ABOVE FINISH GRADE
8. 4" DIA. PERFORATED HDPE DRAIN PIPE WITH FILTER SOCK, PERFORATED HOLES SHALL BE FACING DOWN
9. CONNECT PIPE TO STORM DRAIN SYSTEM. REFER TO CIVIL ENGINEER'S PLANS FOR STORM DRAIN CONNECTION AND INVERT. VERIFY INVERT AND ROOTBALL SET PRIOR TO INSTALLATION. IF CONNECTION IS NOT POSSIBLE, PROVIDE 12" DIA. X 4'-0" DEEP AUGER HOLE. INSTALL 4" DIA. ASTM D3034, SDR-35 PERFORATED PIPE AND BACKFILL WITH 3/4" AGGREGATE AND FILTER FABRIC SOCK.
10. AERIAL ROOTS AT BASE OF PALM TRUNK - MAXIMUM OF 1' EXPOSED ABOVE ROOT CROWN
11. MULCH LAYER PER PLANTING SPECIFICATIONS (KEEP CLEAR OF TRUNK)
12. PLANT FERTILIZER TABLETS PER AGRONOMIC SOILS REPORT RECOMMENDATIONS

NOTES:

1. LIQUID VITAMIN B1 TO BE MIXED IN WITH BACKFILL (APPLY PER MANUFACTURER RECOMMENDATIONS)
2. PALM TRUNK SHALL BE STRAIGHT AND VERTICAL (PLUMB)
3. REMNANT PETIOLE BOOTS SHALL REMAIN ON PALM TRUNK
4. CONTRACTOR SHALL EXTEND SAND TO SURFACE AND SETTLE IN WITH WATER. DO NOT CAP WITH NATIVE SOIL OR PLANTER MIX
5. REFER TO PLANTING SPECIFICATIONS FOR QUANTITY OF DAYS FRONDS SHALL REMAIN TIED AND WHEN THEY SHOULD BE UNTIED

G PALM PLANTING

1/2" = 1'-0" P-FI-PLA-42



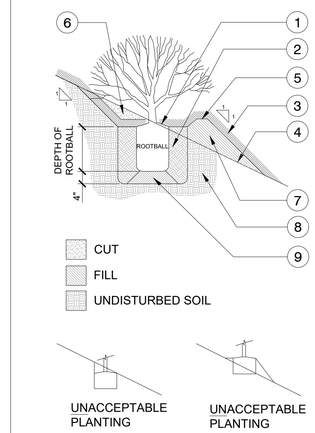
1. TREE PLANTING PER PLAN (CENTER IN PIT)
2. LODGEPOLE PINE WOOD STAKE, 3" DIA. X 12' (UP TO 36" BOX) WITH A TEN-INCH TAPERED DRIVING POINT AND CHAMFERED TOP, UNTREATED, NATURAL WOOD COLOR. PLACE STAKES PARALLEL TO PREVAILING WIND OR AS DIRECTED BY LANDSCAPE ARCHITECT. VERIFY WITH LANDSCAPE ARCHITECT PRIOR TO ADJUSTING.
3. CINCH TIES - 32" BLACK CINCH TYPE, TWO DOUBLE CINCH TIES PER TREE (4 CINCH TIES TOTAL)
4. 4" NDS BLACK ROUND GRATE (PART NO. 11) 1" ABOVE FINISH GRADE
5. 3" HIGH WATERING BASIN. SHALL BE NO LARGER THAN ROOTBALL. RAKE OUT AS DIRECTED.
6. MULCH LAYER PER PLANTING SPECIFICATIONS (KEEP CLEAR OF TRUNK)
7. FINISH GRADE
8. PLANT FERTILIZER TABLETS PER AGRONOMIC SOILS REPORT RECOMMENDATIONS
9. AMENDED BACKFILL PER AGRONOMIC SOILS REPORT RECOMMENDATIONS
10. UNDISTURBED SOIL - SCARIFY SIDES AND BOTTOM OF PIT
11. 12" DIA. X 4'-0" DEEP AUGER HOLE. INSTALL 4" DIA. ASTM D3034, SDR-35 PVC PERFORATED PIPE AND BACKFILL WITH 3/4" AGGREGATE AND FILTER FABRIC SOCK.

NOTES

1. TOP OF ROOTBALL SHALL BE MAINTAINED ABOVE ADJACENT FINISH GRADE - 1" ABOVE FOR 5-15 GAL, 3" ABOVE FOR 24" BOX AND LARGER. SLOPE FOR DRAINAGE.
2. PLANT PIT SHALL BE A MINIMUM OF 18" LARGER THAN BOX SIZE ON ALL SIDES AND NO DEEPER THAN BOX DEPTH.
3. FOOT TAMP BACKFILL LIGHTLY IN 6"-10" LIFTS.
4. MAINTAIN A MIN. 2'-6" DIAMETER BARK MULCH AREA AROUND TRUNK IN TURF AND REMOVE WATERING BASIN.
5. INSTALL 'ARBOR GUARD' TREE TRUNK PROTECTORS ON ALL TREES IN TURF AREAS

A TREE PLANTING & DOUBLE STAKING

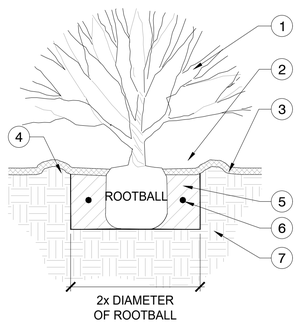
1/2" = 1'-0" P-FI-PLA-03



1. SET ROOT BALL 2" ABOVE FINISH GRADE
2. AMENDED BACKFILL SOIL PER AGRONOMIC SOILS REPORT RECOMMENDATIONS
3. MULCH LAYER PER PLANTING SPECIFICATIONS
4. EXISTING SLOPE
5. WATER BASIN
6. CUT SLOPE
7. COMPACTED TOPSOIL, REFER TO DETAIL
8. UNDISTURBED SOIL
9. TAMP AND COMPACT BACKFILL UNDER ROOTBALL TO MINIMIZE SETTLING

D SHRUB PIT (ON SLOPE)

N.T.S. P-FI-PLA-10



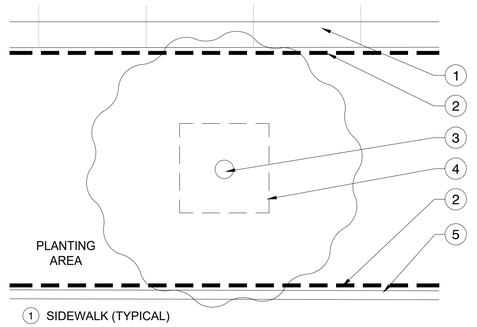
1. CONTAINER PLANT (CENTER IN PIT)
2. 3" HIGH WATERING BASIN. SHALL BE NO LARGER THAN ROOTBALL. RAKE OUT AS DIRECTED.
3. MULCH LAYER PER PLANTING SPECIFICATIONS (KEEP CLEAR OF TRUNK)
4. FINISH GRADE
5. AMENDED BACKFILL SOIL PER AGRONOMIC SOILS REPORT RECOMMENDATIONS
6. PLANT FERTILIZER TABLETS PER AGRONOMIC SOILS REPORT RECOMMENDATIONS
7. UNDISTURBED SOIL

NOTES

1. SET TOP OF ROOTBALL 1/2" ABOVE FINISH GRADE AND SLOPE FOR DRAINAGE

C SHRUB & GROUNDCOVER PLANTING

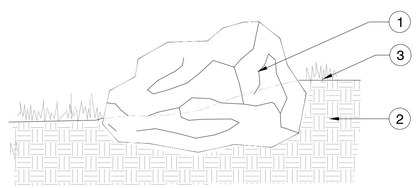
1" = 1'-0" P-FI-PLA-06



1. SIDEWALK (TYPICAL)
2. ROOT BARRIER, EXTEND 12' ON EITHER SIDE OF TREE ALONG CURB OR EDGE OF PAVING. REFER TO PLANS FOR LOCATION.
3. TREE, PER PLAN
4. TREE ROOTBALL, SIZE VARIES
5. BACK OF CURB (TYPICAL)

B TYPICAL ROOT BARRIER CONDITION

1" = 1'-0" P-FI-PLA-04



1. BOULDER, REFER TO CONSTRUCTION LEGEND FOR SIZE AND TYPE
2. COMPACTED SUB-GRADE
3. ADJACENT FINISHED GRADE. REFER TO CONSTRUCTION PLAN

NOTES:

1. BOULDERS TO BE FREE OF SCARS AND MARKS FROM GRADING AND MOVING EQUIPMENT.
2. BURY BOULDERS TO 1/4 OF ITS HEIGHT, SEE PLANS FOR PLACEMENT OF BOULDERS.
3. CONTRACTOR TO COORDINATE WITH LANDSCAPE ARCHITECT TO BE ON SITE FOR PLACEMENT.

F BOULDERS

N.T.S. P-FI-PLA-34

-	PROGRESS SUBMITTAL	-	-	04.13.26
-	PROGRESS SUBMITTAL	-	-	03.20.26
-	PROGRESS SUBMITTAL	-	-	06.13.25
REV.	DESCRIPTION	CK'D	APP	DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

INTERIM FIRE STATION NO. 7

PLANTING DETAILS

DRN. BY: RL | DES. BY: RL | CK'D. BY: RL

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

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April 13, 2026 | SHEET 95 OF 151 | DWG.NO.2025-D-010

PLANS PREPARED BY:
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88 N. Oak Street, Suite 1A
Ventura, California 93001
Phone 661-295-1970
Fax 661-295-1969

LICENSED LANDSCAPE ARCHITECT — ROBERT C. LEE — No. 5144 — Signature — JULY 31, 2026 Renewal Date — APR. 13, 2026 Date — STATE OF CALIFORNIA

ELECTRICAL ABBREVIATIONS

A, AMP	AMPERE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT
AF	AMPS–FRAME
AIC	AVAILABLE INTERRUPTING CAPACITY
AM	AMMETER
AT	AMPS–TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
AWT	AUTOMATIC WELL TESTER
BC	BARE COPPER
BLDG	BUILDING
BPS	BOOSTER PUMP STATION
BSC	BARE STRANDED COPPER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CTL	CONTROL
CU	COPPER
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DISC	DISCONNECT
DISTR	DISTRIBUTION
DIV	DIVISION
DN	DOWN
DPS	PUMP DISCHARGE PRESSURE SWITCH
DS	DOOR SWITCH
DWG	DRAWING
E.F.	EXHAUST FAN
EL	ELECTRICAL
EL, ELEV	ELEVATION
EMERG	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
ETM	ELAPSED TIME METER
EXIST, E	EXISTING
F	FUTURE
FA	FIRE ALARM
FIN	FINISH
FLA	FULL LOAD AMPERES
FT	FEET
FVNR	FULL VOLTAGE NON–REVERSING
FVR	FULL VOLTAGE STARTER
GA	GAUGE
GALV	GALVANIZED
G, GND	GROUND
GFI	GROUND FAULT INTERRUPTER
GFT	GROUND FAULT TRIP
GIW	GROUND FAULT INTERRUPTER, WEATHERPROOF
HF	HIGH FLOW
HID	HIGH INTENSITY DISCHARGE (LAMP)
HP	HORSEPOWER
HOA	HAND–OFF–AUTOMATIC
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM (LAMP)
HV	HIGH VOLTAGE
HZ	HERTZ
IC	ISOLATION CONTACTOR
IOR	I/O RACK
IR	INFRARED
ISC	AVAILABLE SHORT CIRCUIT CURRENT
ISR	INTRINSICALLY SAFE RELAY
JB	JUNCTION BOX
KCM	THOUSAND CIRCULAR MILS (OR MCM)
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE
KW	KILOWATT
LCL	LONG CONTINUOUS LOAD
LCR	LINE CURRENT RELAY
LOR	LOCAL–OFF–REMOTE SWITCH
LOS	LOCK–OUT–STOP PUSHBUTTON
LP	LIGHTING PANEL
LR	LEVEL RELAY
LRA	LOCKED ROTOR AMPS
LRP	LINEAR ROD PUMP
LS	LIMIT SWITCH
LTG	LIGHTING
LTS	LIGHT SWITCH (PRESSURE SWITCH TYPE)
LV	LOW VOLTAGE
LVR	LINE VOLTAGE RELAY
MA	MILLIAMPERE
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MF	MEDIUM FLOW
MH	MANHOLE
MIC	MANUFACTURER'S INTERCONNECTING CABLE
MMI	MAN MACHINE INTERFACE
MOV	MOTOR OPERATED VALVE

ELECTRICAL ABBREVIATIONS

MS	MAGNETIC STARTER
MTD	MOUNTED
MV	MEDIUM VOLTAGE
N	NEW
NC	NORMALLY CLOSED
NF	NON FUSED
N.I.C.	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
N/P	NAMEPLATE
NTS	NOT TO SCALE
OC	OPEN/CLOSE (STATUS)
P	POLE
PB	PULLBOX
PF	POWER FACTOR
PFR	POWER FAIL RELAY
PH, Ø	PHASE PIPING AND INSTRUMENTATION DIAGRAM
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PR	PAIR
PT	POTENTIAL TRANSFORMER
PVC	POLYVNYL CHLORIDE (DUCT)
PWR	POWER
R	RELAY
RECEPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RMC	RIGID METAL CONDUIT
RM	ROOM
RMS	ROOT MEAN SQUARE
RTC	REMOTE TERMINAL CABINET
RTU	REMOTE TERMINAL UNIT
RVAT	REDUCED VOLTAGE AUTO–TRANSFORMER
RVSS	REDUCED VOLTAGE SOLID STATE
SC	SHORTING CONTACTOR
SCADA	SUPERVISED CONTROL AND DATA ACQUISITION
SCCR	SHORT CIRCUIT CURRENT RATING
SCE	SOUTHERN CALIFORNIA EDISON
SHT	SHEET
SPC	SPACE
SPS	SUCTION PRESSURE SWITCH
SS	SOFT STARTER
SST	STAINLESS STEEL
STP	SHIELDED TWISTED PAIR
SV	SOLENOID VALVE
SW	SWITCH
SWBD	SWITCHBOARD
SYMM	SYMMETRICAL
T	TIMER (SWITCH)
TD	TIME DELAY
TEL	TELEPHONE
TERM	TERMINAL
TEMP	TEMPERATURE
THWN	THERMAL PLASTIC, HEAT RESISTANT, WATERPROOF, NYLON COATED
TP	TWISTED PAIR
TRANS	TRANSFORMER
TRANSF	TRANSFORMER
TS	TEMPERATURE SWITCH
TSP	TWISTED SHIELDED PAIR
TST	TWISTED SHIELDED TRIAD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
U.G.	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VA	VOLT AMPERE
VAC	VOLTS AC
VCLS	VALVE CLOSED LIMIT SWITCH
VD	VOLTAGE DROP
VDC	VOLTS DC
VFD	VARIABLE FREQUENCY DRIVE
VM	VOLTMETER
VSH	VIBRATION SWITCH, HIGH (WARNING)
VSHH	VIBRATION SWITCH, HIGH (SHUTDOWN)
W	WIRE, WATTS
WCR	WITHSTAND AND CLOSING RATING
WP	WEATHERPROOF
WT	WATERTIGHT
WTH	WEATHER STATION
XFMR	TRANSFORMER

ELECTRICAL LEGEND

EXISTING	PROPOSED	
○	○	UTILITY POLE
———	———	CONDUIT RUN EXPOSED
– – – –	– – – –	CONDUIT RUN UNDERGROUND OR UNDERFLOOR
12KV	12KV	12KV OVERHEAD WIRES
480V	480V	480V OVERHEAD WIRES
– – –	– – –	BARE COPPER GROUND WIRE UNDERGROUND OR UNDERFLOOR
——○	——o	CONDUIT TURNED UP
——•	——•	CONDUIT TURNED DOWN
		LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LP–7		HOMERUN TO PANEL "LP", CIRCUIT "7"
1"C–3#10		INDICATES CONDUIT SIZE, NUMBER AND SIZE OF CONDUCTORS
		1"C–3#12, 1#12 GND.
A / 100		LIGHTING FIXTURE IDENTIFICATION SYMBOL, UPPER HALF OF SYMBOL INDICATES TYPE OF FIXTURE AND LOWER HALF INDICATES FIXTURE WATTAGE (INCLUDING BALLAST)
		LIGHTING FIXTURE
		WALL MOUNTED LIGHTING FIXTURE
$a		SINGLE POLE TUMBLER SWITCH, 20A, 120–277V, WALL MOUNTED AT +48" OR AS NOTED SUBSCRIPT "a" IDENTIFIES CIRCUIT CONTROLLED
J		JUNCTION BOX
		20A–125V, 2 POLE, 3 WIRE, NEMA 5–20R, DUPLEX RECEPTACLE, MOUNTED AT 15" ABOVE FLOOR (UNO)
GFI		20A–125V, 2 POLE 3 WIRE, NEMA 5–20R GROUND FAULT INTERRUPTER. DUPLEX RECEPTACLE MOUNTED AT 15" ABOVE FLOOR (UNO)
▼		DATA RECEPTACLE
		FLOOR MOUNTED DUPLEX RECEPTACLE WITH DATA OUTLET COMBO
3 OR 3		MOTOR WITH ADJACENT J–BOX, NUMBER INDICATES HORSEPOWER RATING
100AF 100AT 3P		CIRCUIT BREAKER, 100 AMP FRAME, 100 AMP TRIP, 3 POLE
100AF		FUSE, 100A
OR T		TRANSFORMER, DESCRIPTION AND RATING AS SHOWN ON DRAWING
300/5		CURRENT TRANSFORMER, 300A TO 5A RATIO
		POTENTIAL TRANSFORMER (PT) OR CONTROL POWER TRANSFORMER (CPT)
		MAGNETIC MOTOR STARTER, 3 POLE, NUMBER DENOTES SIZE
VFD		VARIABLE FREQUENCY DRIVE
		GROUND ROD, 3/4" DIA X 10'–0" LONG, COPPER–CLAD STEEL
		GROUND TEST WELL, 3/4" DIA X 10'–0" LONG, COPPER–CLAD STEEL AND GROUND BOX
		GROUND CONNECTION
		DISCONNECT SWITCH – UNFUSED HORSEPOWER RATED
F 20AF 2P OR 300A 3P		DISCONNECT SWITCH – FUSED, HORSEPOWER RATED, FUSE SIZE INDICATED BY ADJACENT NUMBERS
15kV, 30A		CUT OUT SWITCH WITH FUSE LINK
		START/STOP PUSHBUTTON STATION
PM		POWER MONITOR
(F)		FUTURE

CONTROLS LEGEND

	N.C. PUSHBUTTON
	N.O. PUSHBUTTON
	SELECTOR SWITCH
OL'S	N.C. MOTOR OVERLOAD RELAY CONTACTS
	NORMALLY OPEN CONTACT (N.O.) STATUS WITH RELAY DE–ENERGIZED
	NORMALLY OPEN CONTACT (N.C.) STATUS WITH RELAY DE–ENERGIZED
	N.O. CONTACT ON PRESSURED SWITCH
	N.O. LIMIT SWITCH
	N.C. LIMIT SWITCH
	N.O. LEVEL SWITCH
	TIMED CONTACT, CLOSES AFTER TIME DELAY
	TIMED CONTACT, OPENS AFTER TIME DELAY
	TEMPERATURE SWITCH
	FLOW SWITCH
	SOLENOID
A	PILOT LIGHT LETTER INDICATED COLOR (AMBER)
M1	MOTOR STARTER COIL
□	TERMINAL OR DEVICE LOCATED IN "MCC" MOTOR STARTER COMPARTMENT
△	DEVICE LOCATED IN THE FIELD
■	TERMINAL OR DEVICE LOCATED IN TELEMETRY CABINET
CR	CONTROL RELAY

EXISTING CONDITIONS NOTES

1. ANY INFORMATION SHOWN ON THE PLANS FOR EXISTING CONDITIONS WAS PRIMARILY GAINED FROM "AS BUILT" DRAWINGS AND/OR LIMITED FIELD INVESTIGATION. BEFORE CONSTRUCTION, THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND MAKE ALLOWANCE FOR VARIATIONS FROM THAT SHOWN. CONTRACTOR SHALL ALSO FIELD VERIFY AND TAKE ALL DUE PRECAUTIONARY MEANS TO PROTECT ALL UNDERGROUND LINES, WIRING AND STRUCTURES REGARDLESS IF SHOWN OR NOT ON THE DRAWINGS.
2. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL POTHOLE AND VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF THE DISCOVERY OF ANY UTILITY OR ANY UNDERGROUND LINES, WIRING AND STRUCTURES THAT WAS OMITTED FROM THE PLANS, INCORRECTLY SHOWN OR NOT PROPERLY MARKED. IF THE UTILITY DOES NOT PROVIDE LOCATION INFORMATION OR MARKING SERVICES IN THE FIELD, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
4. OVERHEAD UTILITIES ARE NOT SHOWN IN ALL INSTANCES. CONTRACTOR SHALL USE DUE CARE WHEN WORKING NEAR OR UNDER SAID UTILITIES AND SHALL PROTECT THEM IN PLACE.
5. THE CONTRACTOR SHALL NOT INTERRUPT THE SERVICE FUNCTION OF ANY UTILITY OR FIELD PRODUCTION EQUIPMENT, DISTURB THE SUPPORT BASE, OR MODIFY ANY FACILITY WITHOUT AUTHORITY FROM THE UTILITY OWNER AND/OR THE CITY.
6. EXISTING PIPELINES/UTILITIES THAT CROSS NEW SYSTEM PIPING OR SIMILAR EXCAVATIONS REQUIRED TO CONSTRUCT THE PIPING, SHALL BE PROTECTED IN PLACE, UNLESS OTHERWISE NOTED. ALL EXISTING PIPELINES/UTILITIES SHALL BE SUPPORTED ACROSS THE EXCAVATION DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER AND THE CITY IF ANY UTILITY OR UNDERGROUND LINES, WIRING AND STRUCTURES ARE DISTURBED OR DAMAGED DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL BEAR THE COSTS OF REPAIR OR REPLACEMENT OF ANY MARKED UTILITY WHERE DAMAGE WAS CAUSED BY THE CONTRACTOR'S ACTIVITIES.

SECTION AND DETAIL IDENTIFICATION SYSTEM

SECTION LETTER OR DETAIL NUMBER

SHEET ON WHICH SECTION OR DETAIL APPEARS OR IS TAKEN

NOTICE TO CONTRACTOR

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT UNDERGROUND SERVICE ALERT (PHONE NO. 811) 48 HOURS IN ADVANCE OF ANY EXCAVATION FOR THE MARK–OUT OF THE LOCATION OF UTILITIES AND OBTAIN A DIG ALERT IDENTIFICATION NUMBER PRIOR TO COMMENCEMENT OF WORK.
3. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS, AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME OF BUILDING PERMIT APPLICATION) OF THE FOLLOWING PUBLICATIONS:
   A. CALIFORNIA CODE OF REGULATIONS TITLE 24: INCLUDES NATIONAL ELECTRICAL CODE AND INTERNATIONAL FIRE CODE, INTERNATIONAL BUILDING CODE, ETC. WITH CALIFORNIA AND OTHER LOCAL AMENDMENTS AS APPLICABLE.
   B. AMERICANS WITH DISABILITIES ACT (ADA).
2. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORKPERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.
3. FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN THE CALIFORNIA BUILDING CODE CHAPTER 7. CONTRACTOR SHALL PROVIDE AND INSTALL PHYSICAL ENCLOSURE AROUND FIXTURES, PANELS, ETC. AS REQUIRED. ALL ASSEMBLIES TO BE PENETRATED SHALL BE INSTALLED WITH APPLICABLE THROUGH–PENETRATION FIRESTOP SYSTEM AS DETERMINED BY UL CLASSIFICATION. BEFORE CONSTRUCTION, VERIFY AND COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.
4. BEFORE ROUGH–IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT, ELECTRICAL CONNECTIONS, STUB–UPS, RECEPTACLES, ETC. WITH OWNER.
5. LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES, CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS. FOR FEEDERS, NEATLY AND INDELIBLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES).
6. ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE LATEST EDITION OF THE CBC AND ASCE.
7. ANY DEMOLITION WORK SHOWN WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER DOES NOT REPRESENT THAT ALL ITEMS WHICH REQUIRE DEMOLITION HAVE BEEN SHOWN.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND TO PERFORM ALL DEMOLITION AND RECONSTRUCTION WHICH MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
9. INFORMATION FOR EXISTING CONDITIONS WAS PRIMARILY GAINED FROM "AS BUILT" DRAWINGS AND/OR LIMITED FIELD INVESTIGATION. BEFORE BID, VISIT SITE TO VERIFY EXISTING CONDITIONS AND MAKE ALLOWANCE FOR VARIATIONS FROM THAT SHOWN.
10. CLOSELY COORDINATE OUTAGE AND FACILITY DISRUPTION TIME WITH THE OWNER. MINIMUM 72–HOUR NOTICE IS REQUIRED BEFORE ANY CIRCUIT SHUTDOWN OR DISRUPTION OF FACILITY PERSONNEL FUNCTIONING.
11. ALL SINGLE CONDUCTORS SHALL BE COPPER WITH TYPE XHHW–2 INSULATION UNLESS OTHERWISE NOTED.
12. ALL UNDERGROUND CONDUITS SHALL HAVE A MINIMUM COVER OF 24".
13. ALL SWITCHES, CIRCUIT BREAKERS AND OTHER EQUIPMENT, AS SPECIFIED, SHALL HAVE TERMINATION PROVISIONS LISTED AND IDENTIFIED FOR USE WITH 75°C CONDUCTORS, AND ALL FEEDER CONDUCTORS, AND CONDUITS, ARE SIZED BASED ON USE OF 75°C COPPER WIRES TYPE XHHW–2.
14. ALL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED [UL, CSA, ETC.] (CEC 110–2).
15. PROVIDE GROUND WIRE IN ALL CONDUITS CONTAINING POWER OR LIGHTING CIRCUITS.
16. ALL ABOVE GROUND CONDUIT SHALL BE THREADED RIGID METAL CONDUIT.
17. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC, WITH PVC COATED RGS BENDS, ELBOWS AND TURN–UPS, UNLESS OTHERWISE NOTED.
18. ALL CONDUIT SHALL BE MINIMUM 1" UNLESS NOTED OTHERWISE.
19. WHERE POWER AND INSTRUMENTATION CONDUITS OCCUPY THE SAME TRENCH, PROVIDE A MINIMUM OF 12" OF SEPARATION.
20. TOTAL NUMBER OF CONDUIT BENDS SHALL NOT EXCEED 270 DEGREES OR NO MORE THAN (3) 90 DEGREE BENDS.

GROUNDING NOTES

1. ALL GROUNDING CONDUCTORS SHALL BE INSTALLED A MINIMUM 30 INCHES BELOW FINISHED GRADE UNLESS OTHERWISE NOTED.
2. MAIN GROUND CONDUCTOR SHALL BE #4/0 STRANDED COPPER AND TAP TO EQUIPMENT SHALL BE #2 STRANDED COPPER, UNLESS OTHERWISE NOTED.
3. UNDERGROUND CONNECTION SHALL BE COMPRESSION OR EXOTHERMIC CONNECTION.
4. FRAMES OF ALL MOTORS SHALL BE BONDED TO THE GROUND GRID.
5. ABOVE–GRADE GROUND WIRE SHALL BE INSULATED COPPER CONDUCTOR.

REV.	DESCRIPTION	CK'D	APP	DATE
2	ISSUED FOR BID	DP/DR	-	04/07/26
1	ISSUED FOR REVIEW	DP/DR	-	12/19/25
0	ISSUED FOR BID	AM/DR	-	06/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

ELECTRICAL SYMBOLS & GENERAL NOTES

DRN. BY: AM	DES. BY: AM	CK'D. BY: AM/DR

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
June 11, 2025	SHEET 96 OF151 | DWG. NO. 2025-D-010

REGISTERED PROFESSIONAL ENGINEER
PRAVESH BABU PEERAMSETTY
NO. 21736
ELECTRICAL
STATE OF CALIFORNIA

04/07/26

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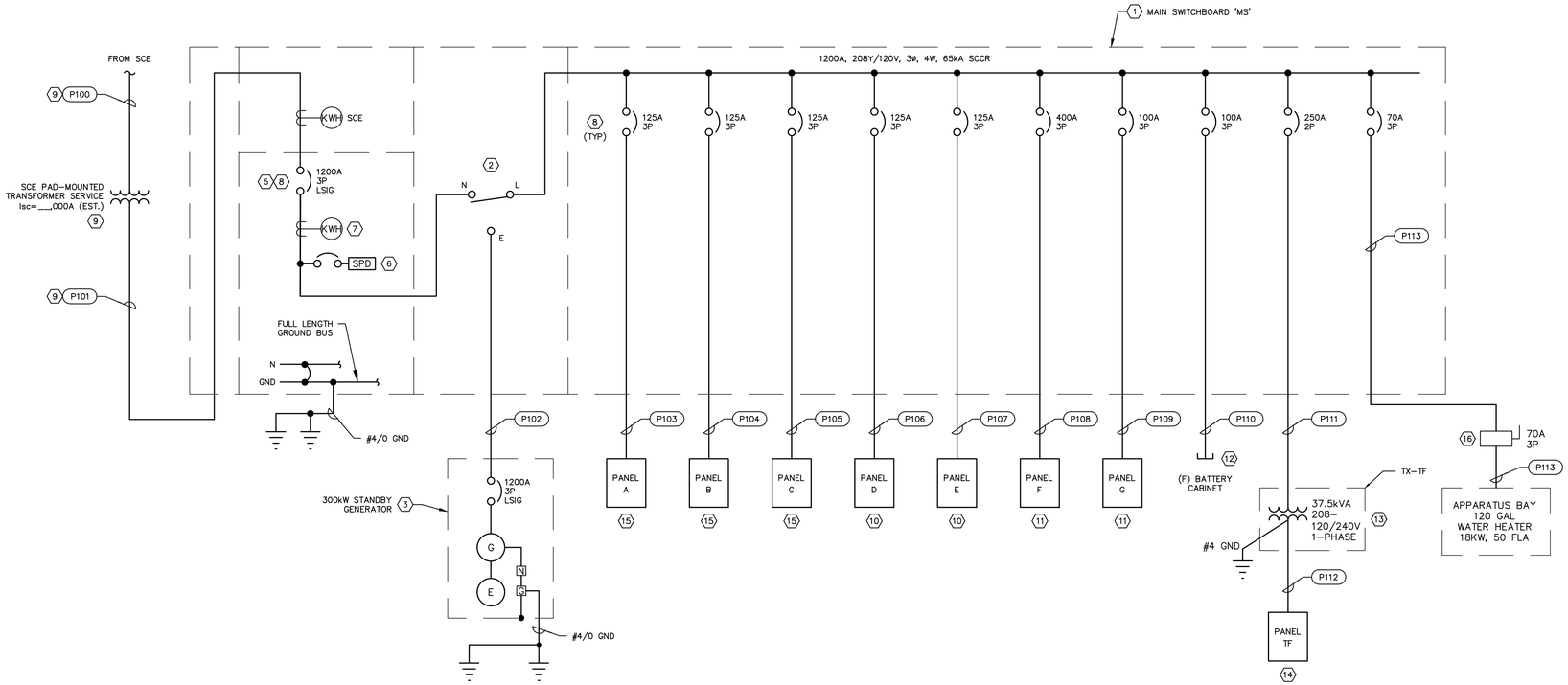
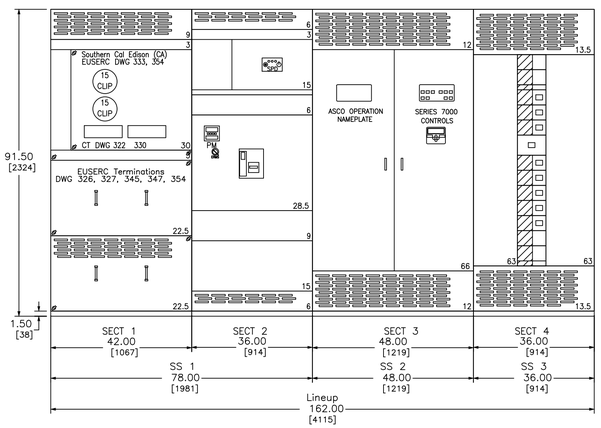
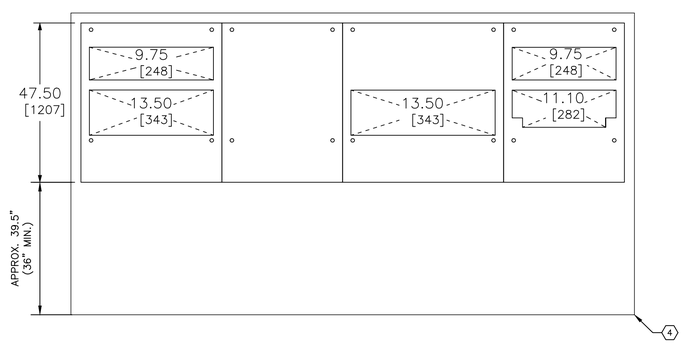


SINGLE LINE DIAGRAM

SCALE: NO SCALE





EQUIPMENT ELEVATIONS & FLOOR PLAN – MAIN SWITCHBOARD 'MS'

SCALE: NO SCALE

GENERAL NOTES:

1. SEE ELECTRICAL SYMBOLS AND GENERAL NOTES ON SHEET 87.
2. SEE CONDUIT AND CABLE SCHEDULE ON SHEET 100.
3. ELECTRICAL EQUIPMENT DIMENSIONS ARE BASED ON PRELIMINARY LAYOUTS PROVIDED BY THE VENDORS. FINAL DIMENSIONS SHALL BE PROVIDED BY THE MANUFACTURERS VIA SHOP DRAWING SUBMITTALS AND CONFIRMED BY THE CONTRACTOR PRIOR TO INSTALLATION.
4. SCE SCOPE OF WORK IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL CONFIRM ALL SCE WORK WITH SCE PLANNER/INSPECTOR, PLANS AND STANDARDS.

CONSTRUCTION NOTES:

1. MAIN SWITCHBOARD 'MS', 1200A, 208Y/120V, 3-PHASE, 4-WIRE, COPPER BUSSING, RATED AT 65,000 SCCR IN NEMA 3R ENCLOSURE, MANUFACTURED BY SQUARE-D. MAIN SWITCHBOARD SHALL HAVE AN INTERNAL CPT FOR SPACE HEATERS (AS REQUIRED), LIGHTING, AND CONVENIENCE RECEPTACLE(S).
2. AUTOMATIC DELAYED-TRANSITION TRANSFER SWITCH, 1200A, 208V, 4-POLE WITH SWITCHED NEUTRAL, 65kA WCR, INSTALLED IN MAIN SWITCHBOARD 'MS', ASCO 7000 SERIES. TRANSFER SWITCH SHALL HAVE PRE-TRANSFER RELAY SIGNAL.
3. 300kW DIESEL STANDBY GENERATOR, CATERPILLAR C9, 208Y/120V, 3-PHASE, 4-WIRE WITH NEUTRAL BONDED AT GENERATOR, 60Hz, WITH 1200A, 3P, LSIG, 100% RATED, UL LISTED, MAIN AND SECONDARY/LOAD BANK CIRCUIT BREAKERS, AND DOUBLE-WALLED, SUB-BASE FUEL TANK SIZED TO OPERATE FOR 24 HOURS (MINIMUM) AT FULL LOAD. GENERATOR SHALL BE SIZED FOR CONNECTED LOAD (AS SHOWN) WITH A MAXIMUM VOLTAGE DIP OF 25%. GENERATOR SHALL BE HOUSED IN A WEATHERPROOF, SOUND-ATTENUATED (LEVEL 2) ENCLOSURE. THE ENCLOSURE SHALL MITIGATE SOUND TO A LEVEL OF 71dBA AT 23 FEET. ENCLOSURE COLOR SHALL BE PER CITY PREFERENCE. SUPPLIER SHALL PROVIDE SIZING STUDY RESULTS TO OWNER AND ENGINEER TO VERIFY THE GENERATOR TO BE SUPPLIED CAN START AND MAINTAIN THE AFOREMENTIONED LOADS. GENERATOR SHALL BE CATERPILLAR, NO SUBSTITUTIONS, OWNER FURNISHED, INSTALLED BY CONTRACTOR.
4. SEE STRUCTURAL DRAWINGS FOR EQUIPMENT FOUNDATION DESIGN AND DETAILS.
5. MAIN CIRCUIT BREAKER SHALL BE 1200A FRAME WITH 1200A TRIP, 208V, 3-POLE, 65kA INTERRUPTING CAPACITY, LSIG ELECTRONIC TRIP UNIT WITH ARC-FLASH REDUCTION MAINTENANCE SWITCH (ARMS), FIXED MOUNTED, SQUARE D POWERPACT PG, OR APPROVED EQUAL.
6. SURGE PROTECTIVE DEVICE (SPD) RATED AT 240kA, 208Y/120V, 3-PHASE, 4-WIRE, STANDARD WITH SURGE COUNTER AND CIRCUIT BREAKER OR FUSIBLE DISCONNECT, SQUARE-D, OR APPROVED EQUAL.
7. POWER METER FOR POWER MONITORING AND ENERGY AND POWER MEASUREMENT. METER SHALL HAVE REMOTE (DOOR-MOUNTED) DISPLAY, BASIC INSTRUMENTATION, THD, ALARMING, DUAL ETHERNET PORTS, SQUARE-D/SCHNEIDER ELECTRIC PM5563, COMM EXPANSION CARD AND DISPLAY, OR APPROVED EQUAL.
8. CIRCUIT BREAKERS SHALL BE RATED FOR MIN. 65,000 AIC AND HAVE PROVISIONS FOR LOCKOUT-TAGOUT.
9. ALL SCE WORK SHALL BE COORDINATED WITH SCE. SERVICE REQUEST #4044496 PROJECT #3166536 PRODUCT #TD2489602 – NEW METER & SERVICE. SCE PROJECT MANAGER STEVEN WALL, PHONE #805-654-7118, STEVEN.WALL@SCE.COM
10. PANELBOARD IS TO BE PROVIDED BY GLOBAL MODULAR INC. AS PART OF LIVING QUARTER OR GYM MODULAR BUILDING PACKAGE. SEE PANEL SCHEDULE ON GLOBAL MODULAR INC. DRAWINGS FOR DETAILS. CONTRACTOR SHALL PROVIDE FEEDER AND CONNECTION TO PANELBOARD, AS SHOWN AND PER PLANS.
11. CONTRACTOR SHALL PROVIDE AND INSTALL PANELBOARD, SEE PANEL SCHEDULE ON SHEET 89 FOR RATINGS AND DETAILS. PANELBOARDS SHALL HAVE BOLT-ON BRANCH CIRCUIT BREAKERS, COPPER BUSSING, FULL NEUTRAL, NEMA 1 ENCLOSURE FOR INDOOR INSTALLATIONS AND NEMA 3R FOR OUTDOOR INSTALLATIONS, SQUARE-D, OR APPROVED EQUAL.
12. STUB-UP, CAP, AND TAG SPARE CONDUIT FOR FUTURE BATTERY CABINET. SEE PLANS FOR LOCATION AND DETAILS.
13. LOW-VOLTAGE TRANSFORMER, DRY-TYPE, 37.5kVA, 208V PRIMARY TO 120/240V SECONDARY, SINGLE-PHASE, 60Hz, ENERGY-EFFICIENT, COPPER WINDINGS, NEMA 3R OUTDOOR-RATED ENCLOSURE, SQUARE-D, OR APPROVED EQUAL.
14. (E) FIRE TRAINING FACILITIES TEMPORARY SERVICE PANEL SHALL BE DEMOLISHED AS PART OF THIS SCOPE AND IN CONJUNCTION WITH SCE TEMPORARY SERVICE REMOVAL. DEMOLITION SHALL BE COORDINATED WITH SCE AND THE CITY. CONTRACTOR SHALL PROVIDE AND INSTALL (N) PANELBOARD "TF" TO REPLACE (E) TEMPORARY SERVICE PANEL LOAD CENTER SECTION "IN KIND". SEE PANEL SCHEDULE ON SHEET 89 FOR RATINGS AND BRANCH CIRCUIT DETAILS. ALL LOAD CONNECTIONS TO (N) PANEL "TF" SHALL BE COORDINATED WITH THE CITY AND ARE NOT PART OF THIS ENGINEERING SCOPE.
15. CONTRACTOR SHALL ENSURE BONDING JUMPERS ARE NOT INSTALLED BETWEEN THE NEUTRAL AND GROUND INSIDE THE PANEL BOARDS (DISTRIBUTION PANELS) EXCEPT FOR THE PANEL BOARD THAT IS FED FROM A SEPARATELY DERIVED SYSTEM.
16. 70A, 240VAC, 3-POLE, 3-WIRE, NON-FUSIBLE, NEMA 1, HEAVY DUTY SAFETY SWITCH, SQUARE-D, EATON, OR APPROVED EQUAL.

LOAD SCHEDULE @ 208Y/120V, 3PH, 4W		
PANEL A	29.2 kVA	81.0 A
PANEL B	12.5 kVA	34.6 A
PANEL C	20.8 kVA	57.8 A
PANEL D	25.0 kVA	69.3 A
PANEL E	26.1 kVA	72.5 A
PANEL F	111.2 kVA	308.8 A
PANEL G	20.6 kVA	57.2 A
(F) BATTERY CABINET	28.8 kVA	80.0 A
TRAIN. FACIL. TX-TF (37.5kVA, 1PH)	28.8 kVA	80.0 A
120 GAL WATER HEATER (APPARATUS BAY)	18.0 kVA	50.0 A
TOTAL	329.7 kVA	991.5 A

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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

SINGLE LINE DIAGRAM

DRN. BY: AM	DES. BY: AM	CK'D. BY: AM/DR

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

June 11, 2025 | SHEET 97 OF151 | DWG. NO. 2025-D-010

REGISTERED PROFESSIONAL ENGINEER — DANISH RABI PEERMOHAMED — NO. 21736 — ELECTRICAL — STATE OF CALIFORNIA

04/07/26

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MAIN SWITCHBOARD 'MS'

BUS RATING: 1200A, 120/208V, 3PH, 4W
NEMA 3R
AIC RATING: 65K

DISTRIBUTION					CONNECTED VA (AMPS) / %VD			
DIST (FT)	PANEL/LOAD	TRIP	POLES	COND SIZE	PHASE A	PHASE B	PHASE C	CALC TYPE
135	PANEL A (LIVING)	125	3	1	11640 (97.0A) 1.68%	11360 (94.7A) 1.64%	6180 (51.5A) 0.89%	CON
155	PANEL B (LIVING)	125	3	1	4200 (35.0A) 0.69%	4603 (38.4A) 0.76%	3660 (30.5A) 0.61%	CON
165	PANEL C (LIVING)	125	3	1	6065 (50.5A) 1.07%	8016 (66.8A) 1.41%	6756 (56.3A) 1.19%	CON
175	PANEL D (LIVING)	125	3	1	8760 (73.0A) 1.64%	9480 (79.0A) 1.77%	6720 (56.0A) 1.26%	CON
185	PANEL E (GYM)	125	3	1/0	9090 (75.8A) 1.42%	10893 (90.8A) 1.70%	6139 (51.2A) 0.96%	CON
55	PANEL F (APP BAY)	400	3	2-3/0	38057 (317.1A) 0.37%	34925 (291.0A) 0.34%	36390 (303.3A) 0.36%	CON
170	PANEL G (OUTSIDE)	100	3	2	6743 (56.2A) 1.54%	5540 (46.2A) 1.27%	8320 (69.3A) 1.90%	CON
	(F) BATTERY CABINET	100	3	-	9600 (80.0A)	9600 (80.0A)	9600 (80.0A)	
250	(E) TRAINING FACILITIES	250	2	300	18750 (156.3A) 1.61%	0	18750 (156.3A) 1.61%	CON
					KVA (AMPS): 112.90 (940.9A)	94.42 (786.8A)	102.52 (854.3A)	

Total KVA 309.84
Total Amps 860

VD CALCULATION TYPE
CON CONNECTED LOAD
CB 80% OF BREAKER RATING

PANEL F

BUS RATING: 400A 120/208V, 3PH, 4W
MAIN: 400A, 3-POLE
SPACES: 72 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 22kA

MOUTING: SURFACE MOUNT, NEMA 1
LOCATION: APPARATUS BAY
WITH EQUIPMENT GND BUS, FULL NUETRAL

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
1.44%	75		C	**1**	CIRCULATION FAN 'CF-1'	15	1	12	696 / 18			12	1	15	'LOUVER 'L-2' ACTUATOR	**2**	M		150	**0.07%**
1.21%	70		C	**3**	'VEHICAL' EXHAUST FAN CONTROL PANEL 'VEXC-1'	30	3	10	2005 / 150			12	1	15	'VEXR-1' RECEPTACLE	**4**	R		125	**0.52%**
			C	**5**	-	-	-	-	2005 / 150			12	1	15	'VEXR-2' RECEPTACLE	**6**	R		145	**0.60%**
			C	**7**	-	-	-	-	2005 / 150			12	1	15	'VEXR-3 RECEPTACLE	**8**	R		165	**0.68%**
1.31%	65		C	**9**	ELECTRIC UNIT HEATER 'EUH-1'	40	3	8		3747 / 1176		10	1	15	EXHAUST FAN 'EF-1'	**10**	C		95	**1.92%**
			C	**11**	-	-	-	-		3747 / 3203		8	2	40	AIR COMPRESSOR 'AC-1'	**12**	C		90	**1.80%**
			C	**13**	-	-	-	-	3747 / 3203			-	-	-	-	**14**	C			
1.21%	60		C	**15**	ELECTRIC UNIT HEATER 'EUH-2'	40	3	8		3747 / 2400		6	1	30	EXHAUST FAN 'EF-2'	**16**	C		160	**2.62%**
			C	**17**	-	-	-	-		3747 / 3326		-	2	40	(F) DETOX SAUNA	**18**	C			
			C	**19**	-	-	-	-	3747 / 3328			-	-	-	-	**20**	C			
			C	**21**	(F) SCBA FILL STATION	80	3	-		7133		-	2	20	SPARE	**22**				
			C	**23**	-	-	-	-			7133	-	-	-	-	**24**				
			C	**25**	-	-	-	-	7133 / 1766			10	2	30	GENERATOR AUX POWER	**26**	C		75	**1.32%**
0.35%	15		C	**27**	SPLIT SYSTEM HEAT PUMP 'DS-1'	20	2	12		1456 / 1766		-	-	-	-	**28**	C			
			C	**29**	-	-	-	-			1456 / 420	12	3	15	APP. BAY ROLL-UP DOOR OPERATOR #5	**30**	C		75	**0.43%**
0.61%	105		C	**31**	APP. BAY ROLL-UP DOOR OPERATOR #1	15	3	12	420 / 420			-	-	-	-	**32**	C			
			C	**33**	-	-	-	-		420 / 420		-	-	-	-	**34**	C			
			C	**35**	-	-	-	-			420 / 420	12	3	15	APP. BAY ROLL-UP DOOR OPERATOR #6	**36**	C		90	**0.52%**
0.75%	130		C	**37**	APP. BAY ROLL-UP DOOR OPERATOR #2	15	3	12	420 / 420			-	-	-	-	**38**	C			
			C	**39**	-	-	-	-		420 / 420		-	-	-	-	**40**	C			
			C	**41**	-	-	-	-			420 / 900	10	1	20	APP. BAY INDOOR RECEPTACLES	**42**	R		105	**1.63%**
0.84%	145		C	**43**	APP. BAY ROLL-UP DOOR OPERATOR #3	15	3	12	420 / 900			10	1	20	APP. BAY INDOOR RECEPTACLES	**44**	R		115	**1.78%**
			C	**45**	-	-	-	-		420 / 720		10	1	20	APP. BAY INDOOR RECEPTACLES	**46**	R		185	**2.29%**
			C	**47**	-	-	-	-			420 / 720	10	1	20	APP. BAY OUTDOOR RECEPTACLES	**48**	R		150	**1.86%**
0.29%	50		C	**49**	APP. BAY ROLL-UP DOOR OPERATOR #4	15	3	12	420 / 720			10	1	20	APP. BAY OUTDOOR RECEPTACLES	**50**	R		100	**1.24%**
			C	**51**	-	-	-	-		420 / 540		12	1	20	TURNOUT & EMT STORAGE ROOM RECEPTACLES	**52**	R		75	**1.11%**
			C	**53**	-	-	-	-			420 / 290	12	1	20	APP. BAY LIGHTING ZONE 1	**54**	L		300	**2.39%**
			L	**55**	TURNOUT, EMT STORAGE, AND AIR COMPRESSOR LIGHTING	20	1	12	290 / 580			10	1	20	APP. BAY LIGHTING ZONE 2	**56**	L		285	**2.85%**
1.77%	180		L	**57**	APP. BAY OUTDOOR LIGHTING	20	1	10		572 / 290		12	1	20	APP. BAY LIGHTING ZONE 3	**58**	L		265	**2.11%**
0.11%	115		L	**59**	MAPBOARD LIGHTING	20	1	12			35 / 232	12	1	20	APP. BAY LIGHTING ZONE 4	**60**	L		250	**1.60%**
				61	SPARE	20	1						1	20	SPARE	**62**				
				63	SPARE	20	1						1	20	SPARE	**64**				
				65	SPARE	20	1						1	20	SPARE	**66**				
				67	SPARE	20	1						1	20	SPARE	**68**				
				69	SPARE	20	1						1	20	SPARE	**70**				
				71	SPARE	20	1						1	20	SPARE	**72**				
								CON:	30803	28222	29466									
								25%:	7254	6703	6924									
								SUB:	0	0	0									
								TOT:	38057	34925	36390									
								AMPS	317	291	303									

PANEL NOTES:
1. BOLT-ON CIRCUIT BREAKERS.
2. ALL COPPER BUSSING.
3. ALL PADLOCKABLE CIRCUIT BREAKERS.

LOAD (VA)	LOAD TYPE LEGEND	
4950	R	RECEPTACLE
2289	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
18	M	MECHANICAL
0	K	KITCHEN APPLIANCE
0	N	NON-CONTINUOUS MISC.
81234	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

PANEL G

BUS RATING: 225A 120/208V, 3PH, 4W
MAIN: 100A, 3-POLE
SPACES: 30 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 22kA

MOUTING: SURFACE MOUNT, NEMA 3R
LOCATION: OUTSIDE
WITH EQUIPMENT GND BUS, FULL NUETRAL

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
1.98%	160		M	**1**	ACCESS GATE MOTOR	20	1	10	720 / 530			10	1	20	LIGHT POLES	**2**	L		255	**2.33%**
0.60%	195		R	**3**	PRESSURE WASHER RECEPT.	20	1	10		180			1	20	SPARE	**4**				
			C	**5**	(F) LEVEL 2, DUAL-PORT, POWER SHARE EV CHARGER	40	2	-			3328		1	20	SPARE	**6**				
			C	**7**	-	-	-	-	3328 / 1200			10	2	20	OUTDOOR TRUCK WASH	**8**	N		195	**2.33%**
			C	**9**	(F) LEVEL 2, DUAL-PORT, POWER SHARE EV CHARGER	40	2	-		3328 / 1200		-	-	-	-	**10**	N			
			C	**11**	-	-	-	-			3328		1	20	SPARE	**12**				
				13	SPARE	20	1						1	20	SPARE	**14**				
				15	SPARE	20	1						1	20	SPARE	**16**				
				17	SPARE	20	1						1	20	SPARE	**18**				
				19	SPARE	20	1						1	20	SPARE	**20**				
				21	SPARE	20	1						1	20	SPARE	**22**				
				23	SPARE	20	1						1	20	SPARE	**24**				
				25	SPARE	20	1						1	20	SPARE	**26**				
				27	SPARE	20	1						1	20	SPARE	**28**				
				29	SPARE	20	1						1	20	SPARE	**30**				
								CON:	5778	4708	6656									
								25%:	965	832	1664									
								SUB:	0	0	0									
								TOT:	6743	5540	8320									
								AMPS	56	46	69									

PANEL NOTES:
1. BOLT-ON CIRCUIT BREAKERS.
2. ALL COPPER BUSSING.
3. ALL PADLOCKABLE CIRCUIT BREAKERS.

LOAD (VA)	LOAD TYPE LEGEND	
180	R	RECEPTACLE
530	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
720	M	MECHANICAL
0	K	KITCHEN APPLIANCE
2400	N	NON-CONTINUOUS MISC.
13312	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

PANEL TF

BUS RATING: 225A 120/240V, 1PH, 3W
MAIN: 200A, 2-POLE
SPACES: 30 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 22kA

MOUTING: SURFACE MOUNT, NEMA 3R
LOCATION: OUTSIDE, TRAINING FACILITIES
WITH EQUIPMENT GND BUS, FULL NUETRAL

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
				1	(E) CIRCUIT	20	1							SPACE	**2**				
				3	(E) CIRCUIT	20	2							SPACE	**4**				
				5	-	-	-							SPACE	**6**				
				7	(E) CIRCUIT	20	2							SPACE	**8**				
				9	-	-	-							SPACE	**10**				
				11	(E) CIRCUIT	30	2							SPACE	**12**				
				13	-	-	-							SPACE	**14**				
				15	SPARE	50	2							SPACE	**16**				
				17	-	-	-							SPACE	**18**				
				19	(E) CIRCUIT	100	2							SPACE	**20**				
				21	-	-	-							SPACE	**22**				
				23	(E) CIRCUIT	100	2							SPACE	**24**				
				25	-	-	-							SPACE	**26**				
				27	SPACE									SPACE	**28**				
				29	SPACE									SPACE	**30**				
								CON:	0	0									
								25%:	0	0									
								SUB:	0	0									
								TOT:	0	0									
								AMPS	0	0									

PANEL NOTES:
1. BOLT-ON CIRCUIT BREAKERS.
2. ALL COPPER BUSSING.
3. CIRCUIT LABELS SHALL BE COORDINATED WITH THE CITY.

LOAD (VA)	LOAD TYPE LEGEND	
0	R	RECEPTACLE
0	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
0	M	MECHANICAL
0	K	KITCHEN APPLIANCE
0	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

REGISTERED PROFESSIONAL ENGINEER — DANIEL BABU PEERAMPALLY — NO. 21736 — ELECTRICAL — STATE OF CALIFORNIA
04/07/26

Cannon
60 S. California Street, Suite 401
Ventura, CA 93001
P 805.503.4590 F 805.544.3863

THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF CANNON. ALL DESIGNS AND INFORMATION ON THESE DRAWINGS ARE FOR USE OF THE SPECIFIED PROJECT AND SHALL NOT BE USED OTHERWISE OR REPRODUCED WITHOUT THE EXPRESSED WRITTEN PERMISSION OF CANNON.

REV.	DESCRIPTION	CK'D	APP	DATE
2	ISSUED FOR BID	DP/DR	-	04/07/26
1	ISSUED FOR REVIEW	DP/DR	-	12/19/25
0	ISSUED FOR BID	AM/DR	-	06/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
PANEL SCHEDULES

DRN. BY: AM	DES. BY: AM	CK'D. BY: AM/DR

PRINCIPAL ENGINEER — 5 May 2026 DATE
CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061
June 11, 2025 | SHEET 98 OF151 | DWG. NO. 2025-D-010

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name:	Ventura Fire Station No. 7 - Apparatus Bay	**Report Page:**	**(Page 1 of 8)**
Project Address:	2269 Alessandro Dr	**Date Prepared:**	6/10/2025

A. GENERAL INFORMATION

01	Project Location (city)	Ventura	04	Total Conditioned Floor Area (ft²)	4,939
02	Climate Zone	6	05	Total Unconditioned Floor Area (ft²)	548
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1
● All Other Occupancies					

B. PROJECT SCOPE

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

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	4939	Area Category Method	548
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	4939		548	

C. COMPLIANCE RESULTS

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)							Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)					Compliance Results
	01	02	03	04		05		06	07		08		09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)		**Total Allowed** (Watts)		Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments		**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)				
Conditioned		1,975.6	0		=	1,976	≥	1,485	0	=	1485		COMPLIES
Unconditioned		219.2	0		=	219	≥	174	0	=	174		COMPLIES
Controls Compliance (See Table H for Details)													COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)													

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

Generated Date/Time: — Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance — Report Version: 2022.0.000 — Schema Version: rev 20220101 — Compliance ID: EnergyPro-50470-0625-0011 — Report Generated: 2025-06-10 17:14:53

F. INDOOR LIGHTING FIXTURE SCHEDULE

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

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
PXLW	PXLW	No	NA	58	Mfr. Spec	25	No	1,450	☐	☐
PXLW-2	PXLW-2	No	NA	35	Mfr. Spec	1	No	35	☐	☐
Total Designed Watts: CONDITIONED SPACES								1,485		

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
PXLW	PXLW	No	NA	58	Mfr. Spec	3	No	174	☐	☐
Total Designed Watts: UNCONDITIONED SPACES								174		

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

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

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector	
		Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Apparatus Bay	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
EMT Storage	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Turnout	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
							13		
							Plan Sheet Showing Daylit Zones:		

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

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

Conditioned Spaces

01	02	03	04	05	06

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance — Report Version: 2022.0.000 — Schema Version: rev 20220101 — Compliance ID: EnergyPro-50470-0625-0011 — Report Generated: 2025-06-10 17:14:53

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

Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Apparatus Bay	All Other Space Types	0.4	4,801	1,920.4	No	No
EMT Storage	All Other Space Types	0.4	138	55.2	No	No
		TOTALS:	4,939	1,975.6	See Tables J, or P for detail	

Unconditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Turnout	All Other Space Types	0.4	548	219.2	No	No
		TOTALS:	548	219.2	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance — Report Version: 2022.0.000 — Schema Version: rev 20220101 — Compliance ID: EnergyPro-50470-0625-0011 — Report Generated: 2025-06-10 17:14:53

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

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

This section does not apply to this project.

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

This section does not apply to this project.

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

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

Generated Date/Time: — Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance — Report Version: 2022.0.000 — Schema Version: rev 20220101 — Compliance ID: EnergyPro-50470-0625-0011 — Report Generated: 2025-06-10 17:14:53

REGISTERED PROFESSIONAL ENGINEER — RAHIL PEERMOHAMED — NO. 21736 — ELECTRICAL — STATE OF CALIFORNIA
04/07/26

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REV.	DESCRIPTION	CK'D	APP	DATE
2	ISSUED FOR BID	DP/DR	-	04/07/26
1	ISSUED FOR REVIEW	DP/DR	-	12/19/25
0	ISSUED FOR BID	AM/DR	-	06/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
TITLE 24 DOCUMENTATION

DRN. BY:	DES. BY:	CK'D. BY:
AM	AM	AM/DR

PRINCIPAL ENGINEER — 5 May 2026 — DATE
CITY ENGINEER — 5/7/2026 — DATE

SPEC. NUMBER 2025-010 — PROJECT NUMBER FA11-1061
June 11, 2025 — SHEET 99 OF 151 — DWG. NO. 2025-D-010

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Ventura Fire Station No. 7 - Apparatus Bay	**Report Page:**	**(Page 7 of 8)**
	Date Prepared:	6/10/2025

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

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

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Apparatus Bay; EMT Storage; Turnout;

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Ventura Fire Station No. 7 - Apparatus Bay	**Report Page:**	**(Page 8 of 8)**
Project Address: 2269 Alessandro Dr	**Date Prepared:**	6/10/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Dinesh B Peeramsetty, PE	Documentation Author Signature:
Company: Cannon	Signature Date: 2025-06-10
Address: 1050 Southwood Dr	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Luis Obispo, CA 93401	Phone: 661-473-9562

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Dinesh B Peeramsetty, PE	Responsible Designer Signature:
Company: Cannon	Date Signed: 2025-06-10
Address: 1050 Southwood Dr	License: E 21736
City/State/Zip: San Luis Obispo CA 93401	Phone: 661-473-9562

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Ventura Fire Station No. 7 - Apparatus Bay	**Report Page:**	**(Page 1 of 7)**
Project Address: 2269 Alessandro Dr	**Date Prepared:**	6/10/2025

This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	Ventura	04	Total Illuminated Hardscape Area (ft²)	0
02	Climate Zone	6			
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval		
☐	LZ-1: Low - Rural Areas	☒ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project				
●	All Other Occupancies				

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01		02			
☒	New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6			
☐	Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes	○ No	
03		04		05	
% of Existing Luminaires Being Altered[1]		Sum Total of Luminaires Being Added or Altered		Calculation Method	
☐ < 10%	☐ >= 10% and < 50% ☐ >= 50%				

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Ventura Fire Station No. 7 - Apparatus Bay	**Report Page:**	**(Page 2 of 7)**
	Date Prepared:	6/10/2025

C. COMPLIANCE RESULTS

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

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv												Compliance Results		
01		02		03		04		05		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
0	+	---	+	---	+	---	+	630	OR	---	=	630	≥	630	COMPLIES
Shielding Compliance (See Table G for Details)															N/A
Controls Compliance (See Table H for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Ventura Fire Station No. 7 - Apparatus Bay	**Report Page:**	**(Page 3 of 7)**
	Date Prepared:	6/10/2025

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)[4]	Field Inspector	
										Pass	Fail
DSXF2	DSXF2	☐ Linear	52	Mfr. Spec	11	New	☐	572	NA: < 6200 lumens	☐	☐
PXLW	PXLW	☐ Linear	58	Mfr. Spec	1	New	☐	58	NA: < 6200 lumens	☐	☐
							Total Design Watts:	630			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Ventura Fire Station No. 7 - Apparatus Bay	**Report Page:**	**(Page 4 of 7)**
	Date Prepared:	6/10/2025

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
Apparatus Bay Outdoor	Photocontrol	Provided	Provided	☐	☐

[1] FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
[2] Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.
[3] Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01				
	"Use it or lose it" Allowance (select all that apply) (select all that apply)				
☐ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☒ Per Specific Area Table M	

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

REGISTERED PROFESSIONAL ENGINEER — DINESH BABU PEERAMSETTY — NO. 21736 — ELECTRICAL — STATE OF CALIFORNIA
04/07/26

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REV.	DESCRIPTION	CK'D	APP	DATE
2	ISSUED FOR BID	DP/DR	-	04/07/26
1	ISSUED FOR REVIEW	DP/DR	-	12/19/25
0	ISSUED FOR BID	AM/DR	-	06/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
TITLE 24 DOCUMENTATION

DRN. BY: AM	DES. BY: AM	CK'D. BY: AM/DR

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
June 11, 2025	SHEET 100 OF151 DWG. NO. 2025-D-010

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K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This table includes areas using the wattage allowance per specific area from Table 140.7-B /Table 170.2-S. More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Specific Area Type per Table 140.7-B	Specific Area (ft^2)[1]	Allowed Density (W/ft^2)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Apparatus Bay Outdoor	BuildingFacade	4770	0.2	810.9	DSXF2	52	11	572	630
					PXLW	58	1	58	
							Total Design Watts for this Area:	630	
								Total Allowance (Watts) All Areas:	630

[1] *FOOTNOTES: See Table 140.7-B /Table 170.2-S for rules for calculating the specific areas (ft^2 for these additional lighting allowances.*

[2] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

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

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Apparatus Bay Outdoor;

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Dinesh B Peeramsetty, PE	Documentation Author Signature:
Company: Cannon	Signature Date: 2025-06-10
Address: 1050 Southwood Dr	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Luis Obispo, CA 93401	Phone: 661-473-9562

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Dinesh B Peeramsetty, PE	Responsible Designer Signature:
Company: Cannon	Date Signed: 2025-06-10
Address: 1050 Southwood Dr	License: E 21736
City/State/Zip: San Luis Obispo CA 93401	Phone: 661-473-9562

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REGISTERED PROFESSIONAL ENGINEER DINESH BABU PEERAMSETTY NO. 21736 ELECTRICAL STATE OF CALIFORNIA

04/07/26

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0	ISSUED FOR BID	AM/DR	-	06/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
TITLE 24 DOCUMENTATION

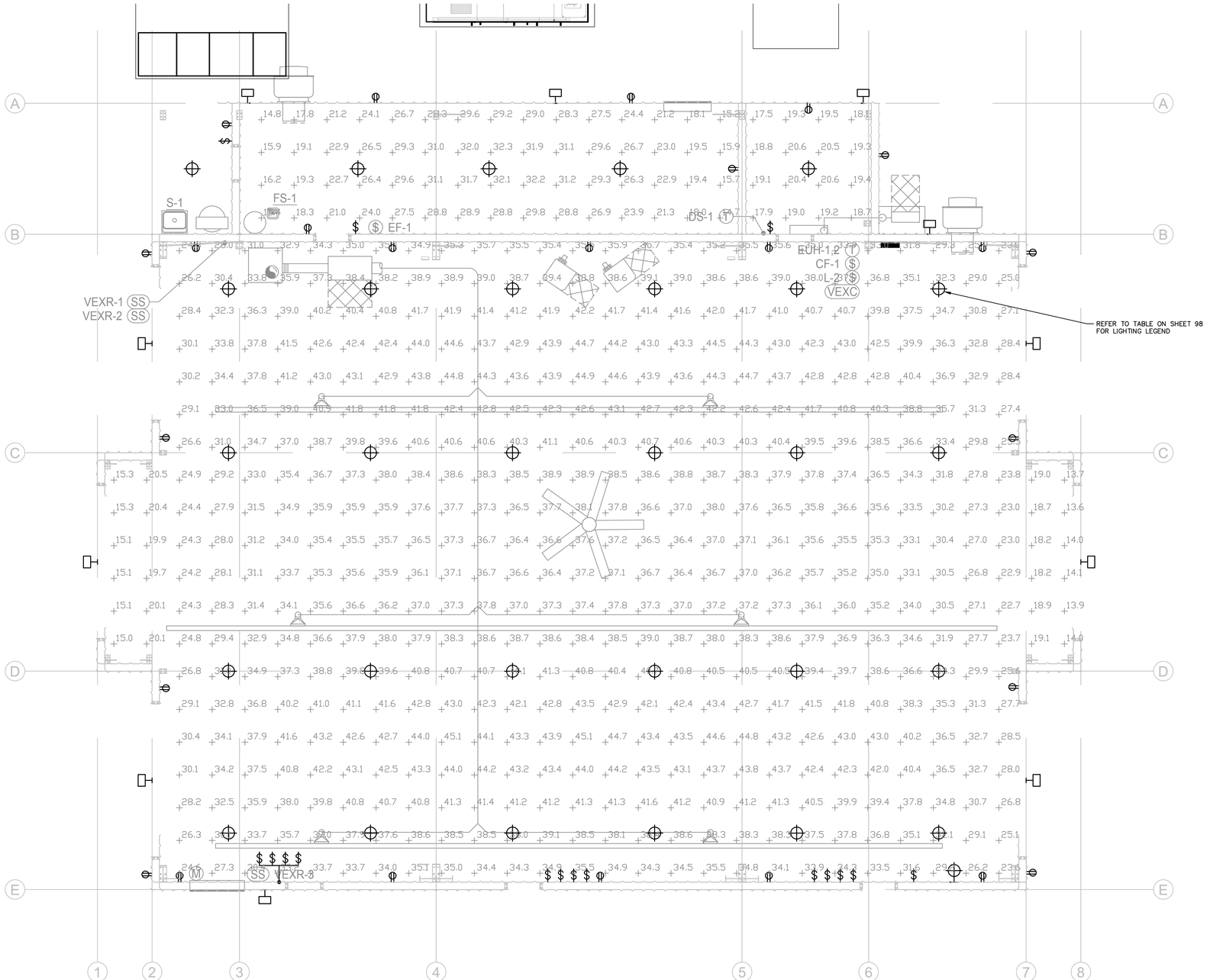
DRN. BY: AM	DES. BY: AM	CK'D. BY: AM/DR

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 PROJECT NUMBER FA11-1061

June 11, 2025 SHEET 101OF151 DWG. NO. 2025-D-010



GENERAL NOTES:

1. SEE ELECTRICAL SYMBOLS AND GENERAL NOTES ON SHEET 87.

0 5 10

1 INCH = 5 FEET

REV.	DESCRIPTION	CK'D	APP	DATE
2	ISSUED FOR BID	DP/DR	-	04/07/26
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0	ISSUED FOR BID	AM/DR	-	06/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

PHOTOMETRICS PLAN - INTERIOR

DRN. BY: AM	DES. BY: AM	CK'D. BY: AM/DR

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
June 11, 2025	SHEET 102 OF 151	DWG. NO. 2025-D-010

REGISTERED PROFESSIONAL ENGINEER — DANESH BABU PEERMOHAMED — NO. 21736 — ELECTRICAL — STATE OF CALIFORNIA

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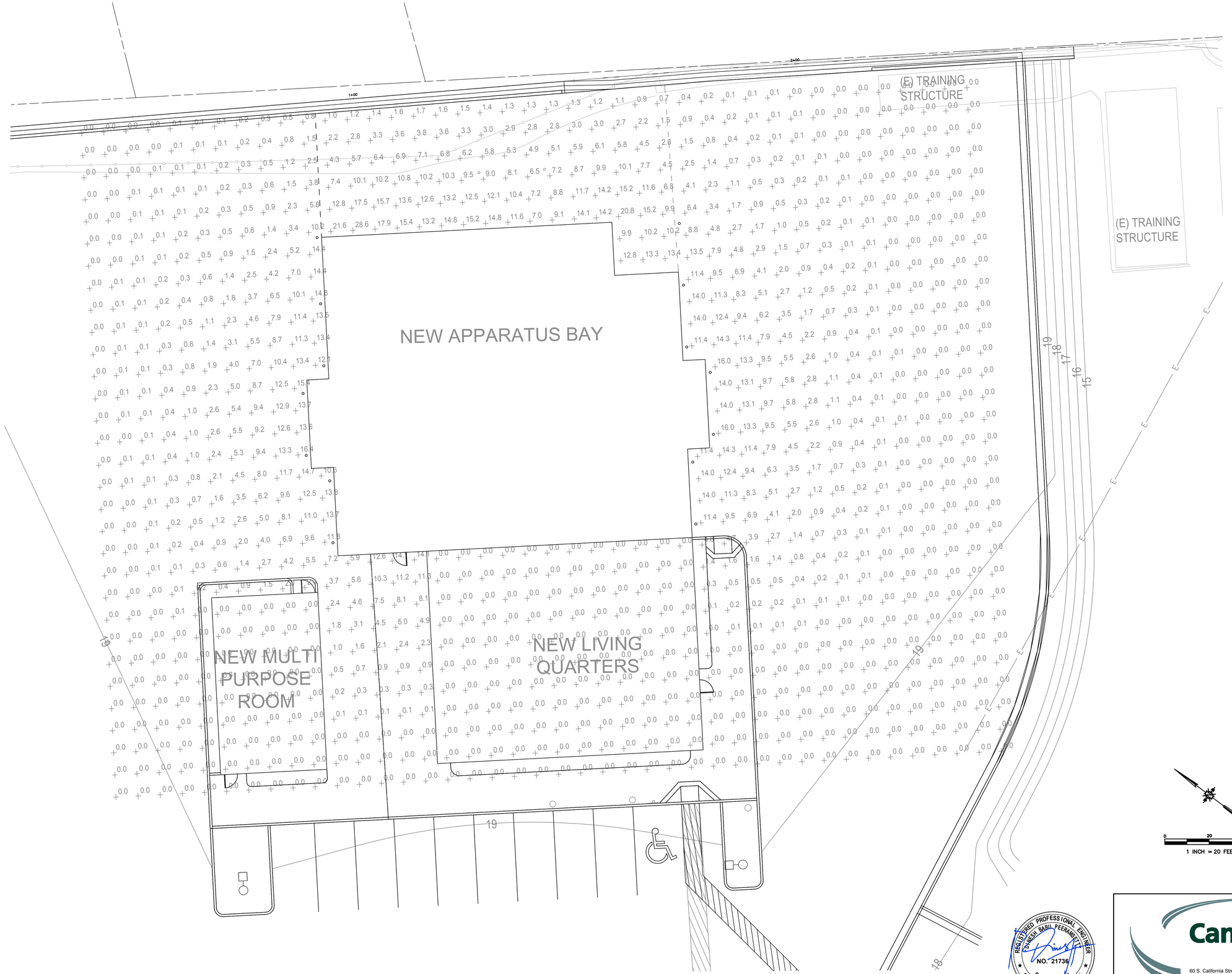

GENERAL NOTES:

1. SEE ELECTRICAL SYMBOLS AND GENERAL NOTES ON SHEET 87.

0 20 40

1 INCH = 20 FEET

REGISTERED PROFESSIONAL ENGINEER
DANESH BABU PEERMOHAMED
NO. 21736
ELECTRICAL
STATE OF CALIFORNIA

04/07/26

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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

PHOTOMETRICS PLAN - EXTERIOR

DRN. BY: AM	DES. BY: AM	CK'D. BY: AM/DR

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
June 11, 2025	SHEET 103OF151 DWG. NO. 2025-D-010

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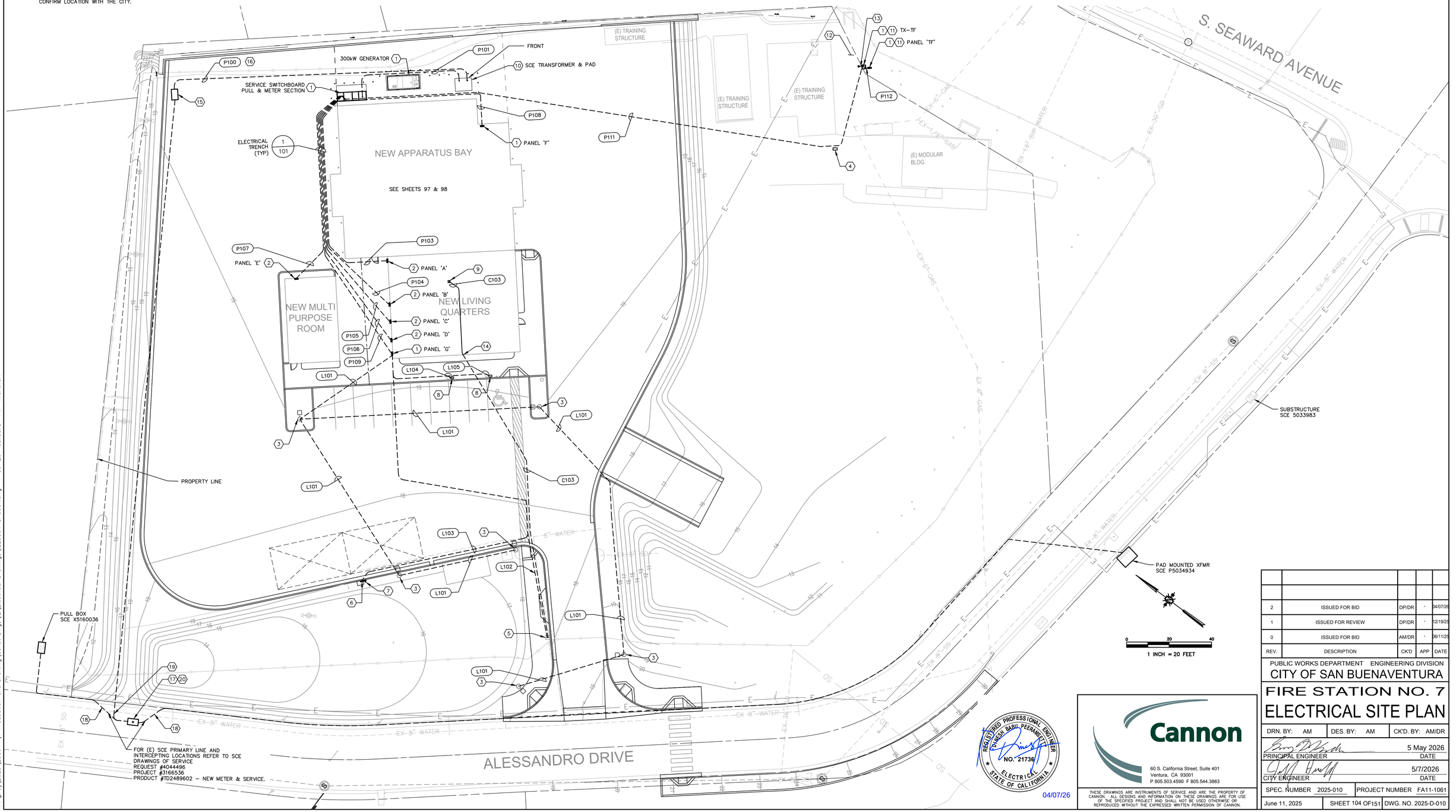
CONSTRUCTION NOTES:

1. SEE SINGLE LINE DIAGRAM ON SHEET 88 FOR EQUIPMENT DETAILS.
2. PANELBOARD IS TO BE PROVIDED BY GLOBAL MODULAR INC. AS PART OF LIVING QUARTER OR GYM MODULAR BUILDING PACKAGE. CONTRACTOR SHALL VERIFY EXACT PANELBOARD LOCATION PRIOR TO FEEDER CONDUIT/WIRE INSTALLATION.
3. LIGHT POLE, SEE CITY'S CIVIL PLANS FOR DETAILS.
4. 13"x24" CONCRETE, TRAFFIC-RATED PULL BOX, JENSEN PRECAST HT1324, OR APPROVED EQUAL.
5. APPROXIMATE LOCATION OF (E) ACCESS GATE MOTOR/CONTROLLER AND (N) FIRE STATION ACCESS PUSH BUTTON/DOORBELL. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
6. TRUCK WASH DOWN CONTROL PANEL, SEE CITY PLANS FOR DETAILS. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
7. PRESSURE WASHER RECEPTACLE, OUTDOOR, NEMA 5-20R GFCI, INDUSTRIAL GRADE, DUPLEX RECEPTACLE WITH WEATHERPROOF, COVER-IN-USE BOX.
8. TERMINATE CONDUIT FOR FUTURE LEVEL 2, DUAL-PORT, POWER SHARE EV CHARGER AT 10"x17" CONCRETE PULL BOX, JENSEN PRECAST HT1017, OR APPROVED EQUAL. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND CONFIRM LOCATION WITH THE CITY.
9. APPROXIMATE LOCATION OF FIRE STATION ALERT SYSTEM, PHOENIX G2 ATX, CONTROLLER, LOCATED IN LIVING QUARTERS BUILDING. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION WITH THE CITY AND FIRE SYSTEM INTEGRATOR/CONTRACTOR PRIOR TO CONDUIT INSTALLATION. CONTRACTOR SHALL INSTALL NEW CONDUIT FROM FIRE STATION ALERT SYSTEM CONTROLLER TO PUSH BUTTON/DOORBELL AT FRONT GATE FOR ACCESS, PER CITY DIRECTION.
10. 94"x72" PRE-CAST CONCRETE PAD FOR SCE PAD-MOUNTED TRANSFORMER. PRE-CAST CONCRETE PAD SHALL BE JENSEN PRECAST, OR SCE APPROVED EQUAL. INSTALL PER SCE PLANS AND STANDARDS WITH REQUIRED CLEARANCES. INSTALL PROTECTIVE BOLLARDS AROUND SCE PAD-MOUNTED TRANSFORMER PER SCE PLANS AND STANDARDS. SEE SCE PLANS FOR PRIMARY AND SECONDARY SERVICE CONDUCTOR/CONDUIT DETAILS.
11. SEE STRUCTURAL DRAWINGS FOR EQUIPMENT SUPPORT AND FOUNDATION DETAILS.
12. (E) SCE TEMPORARY SERVICE POLE SHALL BE REMOVED AS PART OF SCE SCOPE OF WORK. CONTRACTOR SHALL COORDINATE WITH SCE AND THE CITY FOR DEMOLITION OF (E) TEMPORARY SERVICE PANEL PRIOR TO INSTALLATION OF (N) TX-TF AND PANEL 'TF'.
13. INSTALL #4 GND FROM (N) TX-TF TO (N) GROUND ROD/BOX.
14. CONTRACTOR SHALL STUBUP THE UNDERGROUND ROUTED CONDUIT ALONG THE BUILDING WALL EDGE AND SUPPORT VERTICALLY TO THE WALL, PENETRATE INTO THE BUILDING, AND ROUTE THE CONDUIT IN THE CEILING. REFER TO WALL PENETRATION DETAIL ON SHEET 101 DETAIL 7.
15. CONTRACTOR SHALL INSTALL PULL BOX 3' X 5' PRECAST CONCRETE, PER SCE UGS STANDARD HP-225. CONTRACTOR SHALL PROCURE AND INSTALL PULL BOX PER SCE UGS STANDARDS AND REQUIREMENTS. CONTRACTOR SHALL SCHEDULE THE INSPECTIONS PER SCE REQUIREMENTS. REFER TO SCE DRAWING OF SERVICE REQUEST #4044496 PROJECT #3166536 FOR DETAILS. EXACT LOCATION SHALL BE PER SCE DRAWING OF SERVICE REQUEST #4044496 PROJECT #3166536. INSTALL GROUND ROD FOR THE PULL BOX PER SCE UGS STANDARD AC-700. PULL BOX SHALL BE INSTALLED PER SCE UGS STANDARD CD 135.
16. CONTRACTOR SHALL INSTALL (1) 4"C (INCLUDING ONE SPARE) FROM THE (N) VAULT VIA (N) PULL BOX TO THE SCE TRANSFORMER AS PER THE PLANS. CONDUIT, SWEEPS, TRENCHING DEPTH AND BACK FILL MATERIAL SHALL BE PER SCE REQUIREMENTS. CONTRACTOR SHALL COORDINATE AND SCHEDULE THE INSPECTIONS AS PER SCE REQUIREMENTS. REFER TO SCE DRAWING OF SERVICE REQUEST #4044496 PROJECT # 3166536 FOR DETAILS.
17. CONTRACTOR SHALL PROCURE AND INSTALL THE PRECAST TUB TYPE VAULT WITH COVER RESTRAINTS SEE SCE UGS VA 410 STANDARD VAULT DETAILS. CONTRACTOR SHALL INSTALL AND SCHEDULE THE INSPECTIONS PER SCE REQUIREMENTS AND EXACT LOCATION SHALL BE AS PER THE SCE DRAWINGS OF SERVICE REQUEST #4044496, PROJECT #3166536 AND UGS STANDARDS.
18. (1) 4"C – CONTRACTOR SHALL INSTALL THE CONDUIT PER SCE UGS STANDARDS AND PER DRAWINGS OF SERVICE REQUEST #4044496, PROJECT #3166536, BETWEEN INTERCEPT LOCATION OF THE (E) SCE PRIMARY CONDUIT AND (N) VAULT. CONTRACTOR SHALL COORDINATE WITH SCE FOR THE FINAL CONNECTIONS AT THE INTERCEPT LOCATION. CONTRACTOR SHALL WORK WITH SCE TO PREPARE A CONSTRUCTION SCHEDULE. CONTRACTOR SHALL PROVIDE DETAILED SEQUENCE OF WORK PLAN TO CITY FOR APPROVAL PRIOR TO CONSTRUCTION. THIS PLAN SHALL INCLUDE THE CONSTRUCTION SEQUENCE, SCE COORDINATION, TRAFFIC CONTROL, STAGING PLAN AND CONSTRUCTION SCHEDULE.
19. (1) 4"C – CONTRACTOR SHALL INSTALL THE CONDUIT PER SCE UGS STANDARD AND PER DRAWINGS OF SERVICE REQUEST #4044496, PROJECT 3166536, BETWEEN (N) VAULT TO (N) SERVICE EQUIPMENT INSIDE PROPERTY LINE.
20. CONTRACTOR SHALL PERFORM POTHOLING ON THE PERIMETER, WHERE VAULT IS TO BE INSTALLED.

GENERAL NOTES:

1. SEE ELECTRICAL SYMBOLS AND GENERAL NOTES ON SHEET 87.
2. SEE CONDUIT AND CABLE SCHEDULE ON SHEET 100.
3. SCE SCOPE OF WORK IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL CONFIRM ALL SCE WORK WITH SCE PLANNER/INSPECTOR, AND INSTALL ALL SCE FACILITIES PER SCE PLANS AND STANDARDS.



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0	ISSUED FOR BID	AM/DR	-	06/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
ELECTRICAL SITE PLAN

DRN. BY: AM	DES. BY: AM	CK'D. BY: AM/DR

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
June 11, 2025	SHEET 104 OF 151 DWG. NO. 2025-D-010

REGISTERED PROFESSIONAL ENGINEER – DOMESH BABU PEERAMPALLI – NO. 21736 – ELECTRICAL – STATE OF CALIFORNIA
04/07/26

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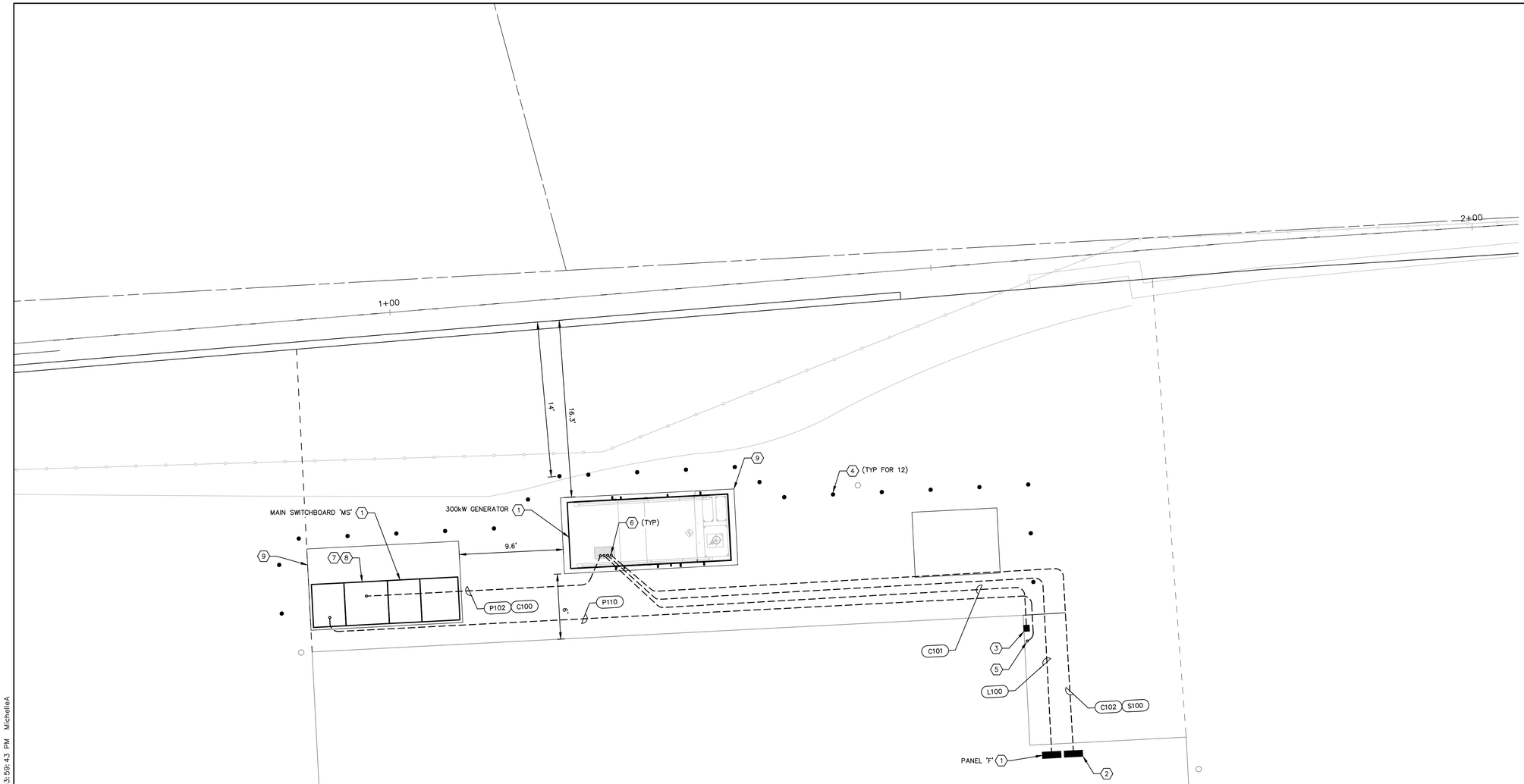


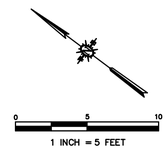
NEW APPARATUS BAY

GENERAL NOTES:

1. SEE ELECTRICAL SYMBOLS AND GENERAL NOTES ON SHEET 87.
2. SEE CONDUIT AND CABLE SCHEDULE ON SHEET 100.

CONSTRUCTION NOTES:

1. SEE SINGLE LINE DIAGRAM ON SHEET 88 FOR EQUIPMENT DETAILS.
2. GENERATOR REMOTE ANNUNCIATOR PANEL, FURNISHED WITH GENERATOR, INSTALLED ON APPARATUS BAY INTERIOR WALL AND PER VENDOR INSTRUCTIONS.
3. GENERATOR REMOTE E-STOP BUTTON IN WEATHERPROOF BOX, FURNISHED WITH GENERATOR, MOUNTED ON APPARATUS BAY EXTERIOR WALL. PROVIDE SIGNAGE PER NEC.
4. INSTALL NEW PROTECTIVE BOLLARD AROUND MAIN SWITCHBOARD OR AND GENERATOR. BOLLARDS INSTALLED AROUND MAIN SWITCHBOARD SHALL BE PER SCE ESR-3, PAGE 3-21 AND APPROVED BY SCE PRIOR TO INSTALLATION. BOLLARDS INSTALLED AROUND GENERATOR SHALL BE REMOVABLE BOLLARDS PER DETAIL 6 ON SHEET 101. REMOVABLE BOLLARDS SHALL BE INSTALLED OUTSIDE OF GENERATOR MAINTENANCE/DOOR SWING/CLEARANCE AREA. COORDINATE EXACT LOCATIONS WITH THE CITY AND SCE PRIOR TO INSTALLATION. CONTRACTOR SHALL INSTALL THE BARRIERS TO PROTECT THE SCE SERVICE TRANSFORMER PER SCE UNDERGROUND STRUCTURES STANDARDS (UGS) MC 830. FINAL INSTALLATIONS SHALL BE FIELD APPROVED BY SCE UNDERGROUND INSPECTOR. MATERIAL FOR THE BARRIERS FOR THE SERVICE (MAIN SWITCHBOARD) AND SCE SERVICE TRANSFORMER SHALL MEET SCE UGS STANDARDS.
5. STUB-UP, CAP, AND TAG CONDUIT FOR FUTURE BATTERY CABINET.
6. FINAL CONNECTIONS TO THE GENERATOR SHALL BE MADE WITH LIQUIDTIGHT FLEXIBLE METAL CONDUIT. CONTRACTOR SHALL FIELD VERIFY EXACT GENERATOR STUB-UP LOCATIONS WITH THE MANUFACTURER.
7. PROVIDE REQUIRED SIGNAGE AT EXISTING SERVICE EQUIPMENT INDICATING TYPE AND LOCATION OF ON-SITE EMERGENCY POWER SOURCE, PER NEC ARTICLE 700.7(A).
8. CONTRACTOR SHALL VERIFY PROPER PHASE ROTATION INDICATION IS PROVIDED AT THE SERVICE EQUIPMENT.
9. SEE STRUCTURAL DRAWINGS FOR ELECTRICAL EQUIPMENT FOUNDATION DESIGN.



REGISTERED PROFESSIONAL ENGINEER
DINESH BABU PEERANGUTTE
NO. 21736
ELECTRICAL
STATE OF CALIFORNIA
04/07/26

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REV.	DESCRIPTION	CK'D	APP	DATE
2	ISSUED FOR BID	DP/DR	-	04/07/26
1	ISSUED FOR REVIEW	DP/DR	-	12/19/25
0	ISSUED FOR BID	AM/DR	-	06/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
GENERATOR ELECTRICAL PLAN

DRN. BY: AM	DES. BY: AM	CK'D. BY: AM/DR

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
June 11, 2025	SHEET 105 OF 151	DWG. NO. 2025-D-010

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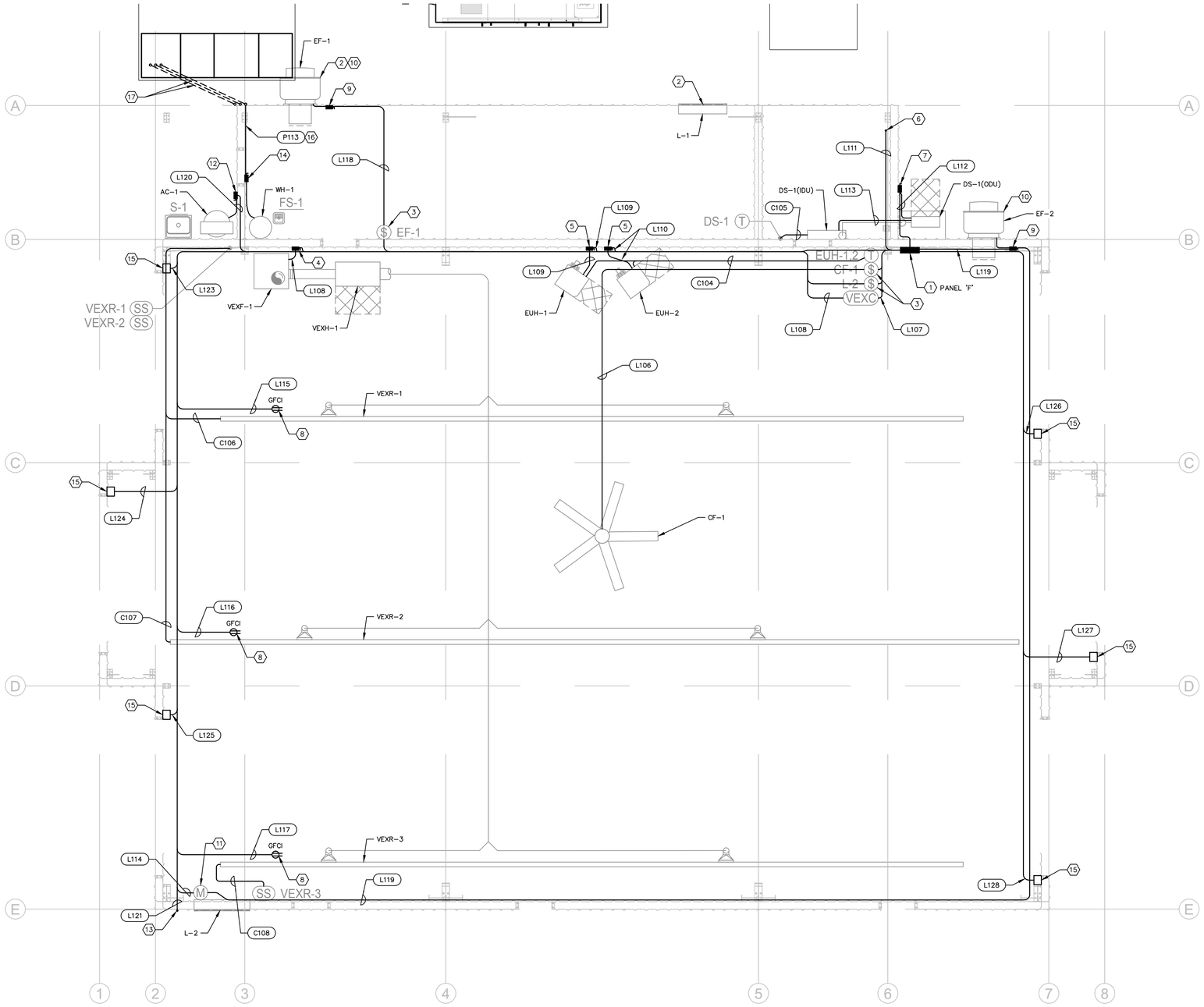

GENERAL NOTES:

1. SEE ELECTRICAL SYMBOLS AND GENERAL NOTES ON SHEET 87.
2. SEE CONDUIT AND CABLE SCHEDULE ON SHEET 100.
3. SEE MECHANICAL AND PLUMBING PLANS FOR EQUIPMENT DETAILS.

CONSTRUCTION NOTES:

(1) SEE SINGLE LINE DIAGRAM ON SHEET 88 FOR EQUIPMENT DETAILS.

(2) GENERATOR SHALL MAINTAIN A MINIMUM 10' CLEARANCE FROM THE INTAKE LOUVER AND EXHAUST FAN.

(3) 15A, 120VAC, SINGLE-POLE TOGGLE SWITCH, HORSEPOWER RATED, INDUSTRIAL GRADE, EXTRA HEAVY DUTY.

(4) 30A, 240VAC, 3-POLE, 3-WIRE, NON-FUSIBLE, NEMA 1, HEAVY DUTY SAFETY SWITCH, SQUARE-D, EATON, OR APPROVED EQUAL.

(5) 60A, 240VAC, 3-POLE, 3-WIRE, NON-FUSIBLE, NEMA 1, HEAVY DUTY SAFETY SWITCH, SQUARE-D, EATON, OR APPROVED EQUAL.

(6) STUB, CAP AND TAG CONDUIT FOR (F) SCBA FILL STATION. FIELD VERIFY EXACT LOCATION OF CONDUIT STUB-OUT WITH THE CITY.

(7) 30A, 240VAC, 2-POLE, 2-WIRE, NON-FUSIBLE, NEMA 3R, HEAVY DUTY SAFETY SWITCH, SQUARE-D, EATON, OR APPROVED EQUAL.

(8) CONTRACTOR SHALL PROVIDE AND INSTALL 15A, 120V, INDUSTRIAL GRADE, EXTRA HEAVY DUTY, GFCI RECEPTACLE ON LAST RAIL UPRIGHT CLOSEST TO THE ENTRY SIDE OF THE APPARATUS BAY PER RAIL, MAX 48" ABOVE THE RAIL. SEE MECHANICAL PLANS AND INSTALLATION DETAILS. COORDINATE EXACT LOCATION WITH VEHICLE EXHAUST SYSTEM (VEX SYSTEM) CONTRACTOR.

(9) 30A, 120VAC, 1-POLE, 2-WIRE WITH FACTORY INSTALLED NEUTRAL, NON-FUSIBLE, NEMA 1, HEAVY DUTY SAFETY SWITCH, SQUARE-D, EATON, OR APPROVED EQUAL.

(10) EXHAUST FAN SHALL HAVE INTERNAL THERMAL/OVERLOAD PROTECTION, PER MECHANICAL PLANS.

(11) SEE MECHANICAL PLANS FOR FAN INTERLOCK WITH DAMPER CONTROL DETAIL WIRING DIAGRAM.

(12) 60A, 240VAC, 2-POLE, 2-WIRE, NON-FUSIBLE, NEMA 3R, HEAVY DUTY SAFETY SWITCH, SQUARE-D, EATON, OR APPROVED EQUAL.

(13) STUB, CAP AND TAG CONDUIT FOR (F) DETOX SAUNA. FIELD VERIFY EXACT LOCATION OF CONDUIT STUB-OUT WITH THE CITY.

(14) 70A, 240VAC, 3-POLE, 3-WIRE, NON-FUSIBLE, NEMA 1, HEAVY DUTY SAFETY SWITCH, SQUARE-D, EATON, OR APPROVED EQUAL.

(15) APPARATUS BAY ROLL-UP GARAGE DOOR ELECTRIC OPERATOR. COORDINATE EXACT LOCATION WITH CLEARSPAN PRIOR TO CONDUIT AND WIRE INSTALLATION.

(16) CONDUIT SHALL BE ROUTED UNDERGROUND AND STUBUP TO THE EDGE OF THE BUILDING WALL, ROUTE VERTICALLY ALONG THE WALL, PENETRATE INTO THE BUILDING AND ROUTED ALONG THE WALL TO THE WATER HEATER. CONDUIT SHALL BE SUPPORTED PER NEC ARTICLE 344.30.

(17) (2) – 2"C – SPARE CONDUITS ROUTED FROM THE SWITCHBOARD DISTRIBUTION SECTION TO STUBUP TO THE EDGE OF THE BUILDING WALL AND CAP OFF 6" ABOVE GROUND FOR FUTURE USE.

0 5 10

1 INCH = 5 FEET

REGISTERED PROFESSIONAL ENGINEER
DANESH BABUL PEERMOHAMED
NO. 21736
ELECTRICAL
STATE OF CALIFORNIA
04/07/26

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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

APPARATUS BAY ELECTRICAL PLAN

DRN. BY: AM	DES. BY: AM	CK'D. BY: AM/DR

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
June 11, 2025	SHEET 106 OF151 | DWG. NO. 2025-D-010

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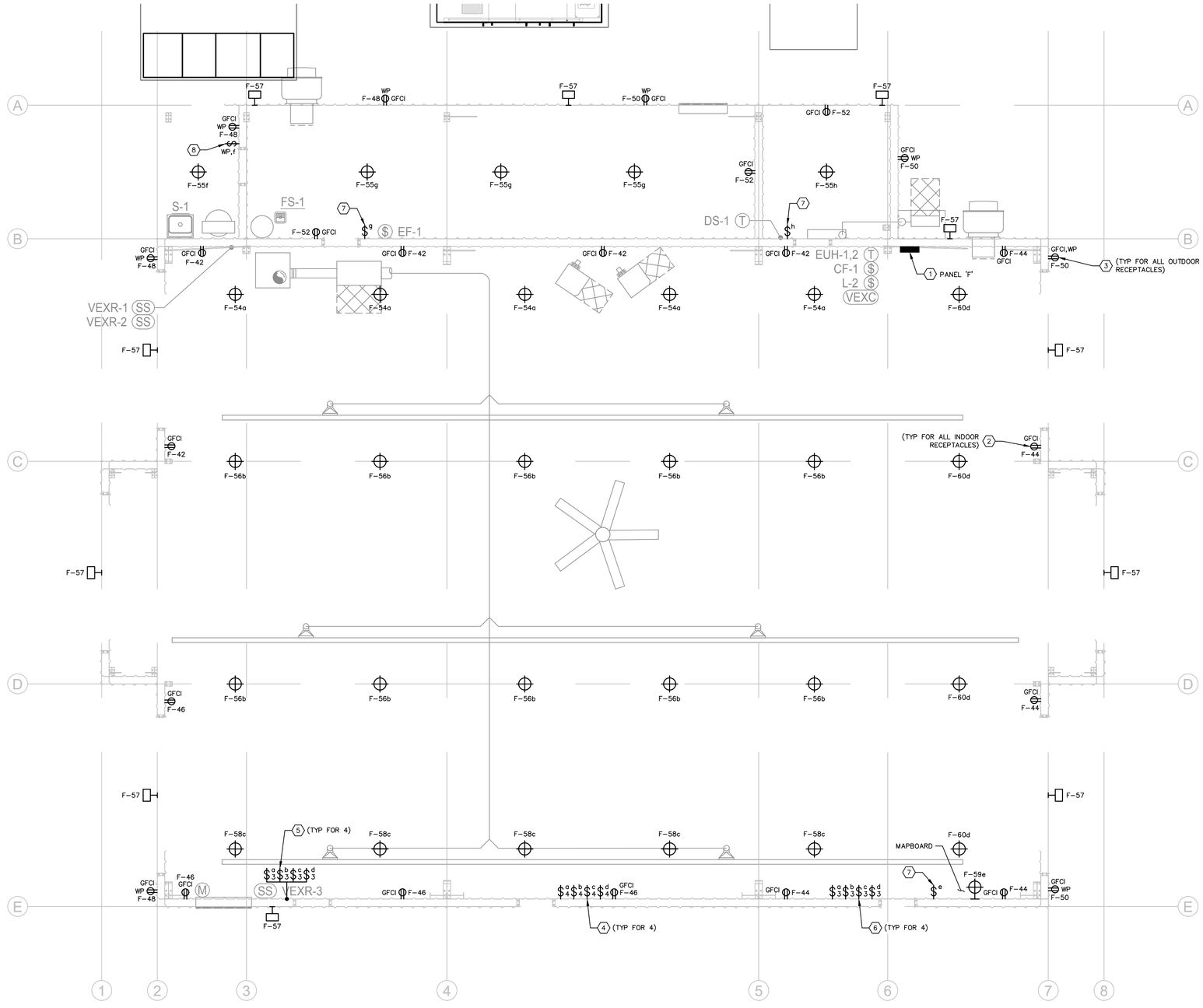

GENERAL NOTES:

1. SEE ELECTRICAL SYMBOLS AND GENERAL NOTES ON SHEET 87.
2. LIGHT FIXTURE LOCATIONS AND MOUNTING HEIGHTS SHALL BE COORDINATED WITH THE CITY, BUILDING MANUFACTURER, VENDOR, AND HVAC/VEX SYSTEM CONTRACTORS PRIOR TO INSTALLATION TO AVOID INTERFERENCE WITH OTHER EQUIPMENT.
3. CONTRACTOR SHALL COORDINATE WITH LIGHTING AND LIGHTING CONTROLS VENDOR TO ENSURE ALL WIRING (INCLUDING DIMMER CONTROL) AND DEVICES ARE INSTALLED FOR A COMPLETE, WORKING SYSTEM.

CONSTRUCTION NOTES:

1. SEE SINGLE LINE DIAGRAM ON SHEET 88 FOR EQUIPMENT DETAILS.
2. 20A, 120V, NEMA 5-20R, GFCI DUPLEX RECEPTACLE OUTLET, HEAVY-DUTY INDUSTRIAL SPECIFICATION GRADE, TAMPER-RESISTANT.
3. 20A, 120V, NEMA 5-20R, GFCI DUPLEX RECEPTACLE OUTLET, HEAVY-DUTY INDUSTRIAL SPECIFICATION GRADE, TAMPER-RESISTANT, WITH OUTDOOR, WEATHERPROOF, COVER-IN-USE BOX.
4. 20A, 120V, TOGGLE OR ROCKER 4-WAY AC QUIET SWITCH, COMMERCIAL/INDUSTRIAL GRADE.
5. 20A, 120V, TOGGLE OR ROCKER 3-WAY AC QUIET SWITCH, COMMERCIAL/INDUSTRIAL GRADE.
6. 20A, 120V, TOGGLE OR ROCKER 3-WAY AC QUIET SWITCH WITH 0-10V DIMMER, COMMERCIAL/INDUSTRIAL GRADE.
7. 20A, 120V, TOGGLE OR ROCKER SINGLE-POLE AC QUIET SWITCH WITH 0-10V DIMMER, COMMERCIAL/INDUSTRIAL GRADE.
8. 20A, 120V, TOGGLE OR ROCKER SINGLE-POLE AC QUIET SWITCH WITH 0-10V DIMMER, COMMERCIAL/INDUSTRIAL GRADE, WITH WEATHERPROOF BOX.

LIGHTING FIXTURE SCHEDULE

SYMBOL	NOTES	FIXTURE SPECIFICATIONS	LAMP	FIXTURE MANUFACTURER
⊕	1, 2, 3, 5	PETROLUX LED LOW BAY LIGHT FIXTURE, WITH OCCUPANCY SENSOR, UNIVERSAL OR PENDANT MOUNT FROM CEILING	LED 4000K 8000LM 58W	HOLOPHANE PXLW 8000LM MDU5 MVOLT 40K 70CRI UNM HKMVV SBGR10 DWHXD
⊕	1, 2, 3, 6	PETROLUX LED LOW BAY LIGHT FIXTURE, WITH OCCUPANCY SENSOR, UNIVERSAL ARM FOR WALL MOUNT	LED 4000K 5000LM 35W	HOLOPHANE PXLW 5000LM MDU5 MVOLT 40K 70CRI UNM SBGR10 P3US DWHXD
⊓	1, 2, 4, 5	EXTERIOR, WALL-MOUNTED LED FLOOD LUMINAIRE, WITH INTEGRAL PHOTOCELL AND MOTION SENSOR CONTROL	LED 4000K 7489LM 52W	LITHONIA DSXF2 LED P1 40K 70CRI WFL MVOLT IS PE DWHXD ACCESSORIES: FRWB DWHXD U; SBOR FOR OUTDOOR MOTION SENSOR

NOTES:
1. ALL FIXTURES SHALL COMPLY WITH TITLE 24 REQUIREMENTS AND CEC ARTICAL 410.
2. FINISH OF ALL FIXTURES AND POLES SHALL BE CONFIRMED WITH OWNER BEFORE ORDERING. MOUNTING ACCESSORIES AND INSTALLATION DETAILS SHALL BE CONFIRMED WITH VENDOR PRIOR TO PROCUREMENT AND INSTALLATION.
3. INDOOR FIXTURES SHALL BE CONTROLLED BY TOGGLE/DIMMER SWITCHES AND INTEGRAL MOTION SENSOR.
4. OUTDOOR BUILDING FIXTURES SHALL BE CONTROLLED BY INTEGRAL PHOTOCELL AND MOTION SENSOR. CONTRACTOR SHALL FIELD VERIFY MOUNTING ANGLE WITH OWNER.
5. MOUNTING HEIGHT SHALL BE +/- 15 FEET ABOVE FINISHED FLOOR TO LIGHT SOURCE, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL FIELD VERIFY MOUNTING HEIGHT WITH OWNER, BUILDING MANUFACTURER, AND VENDOR PRIOR TO INSTALLATION.
6. MOUNTING HEIGHT SHALL BE +/- 9 FEET ABOVE FINISHED FLOOR TO LIGHT SOURCE, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL FIELD VERIFY MOUNTING HEIGHT WITH OWNER, BUILDING MANUFACTURER, AND VENDOR PRIOR TO INSTALLATION.

0 5 10
1 INCH = 5 FEET

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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
APPARATUS BAY POWER & LIGHTING PLAN

DRN. BY: AM	DES. BY: AM	CK'D. BY: AM/DR

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 PROJECT NUMBER FA11-1061

June 11, 2025 SHEET 107OF151 DWG. NO. 2025-D-010

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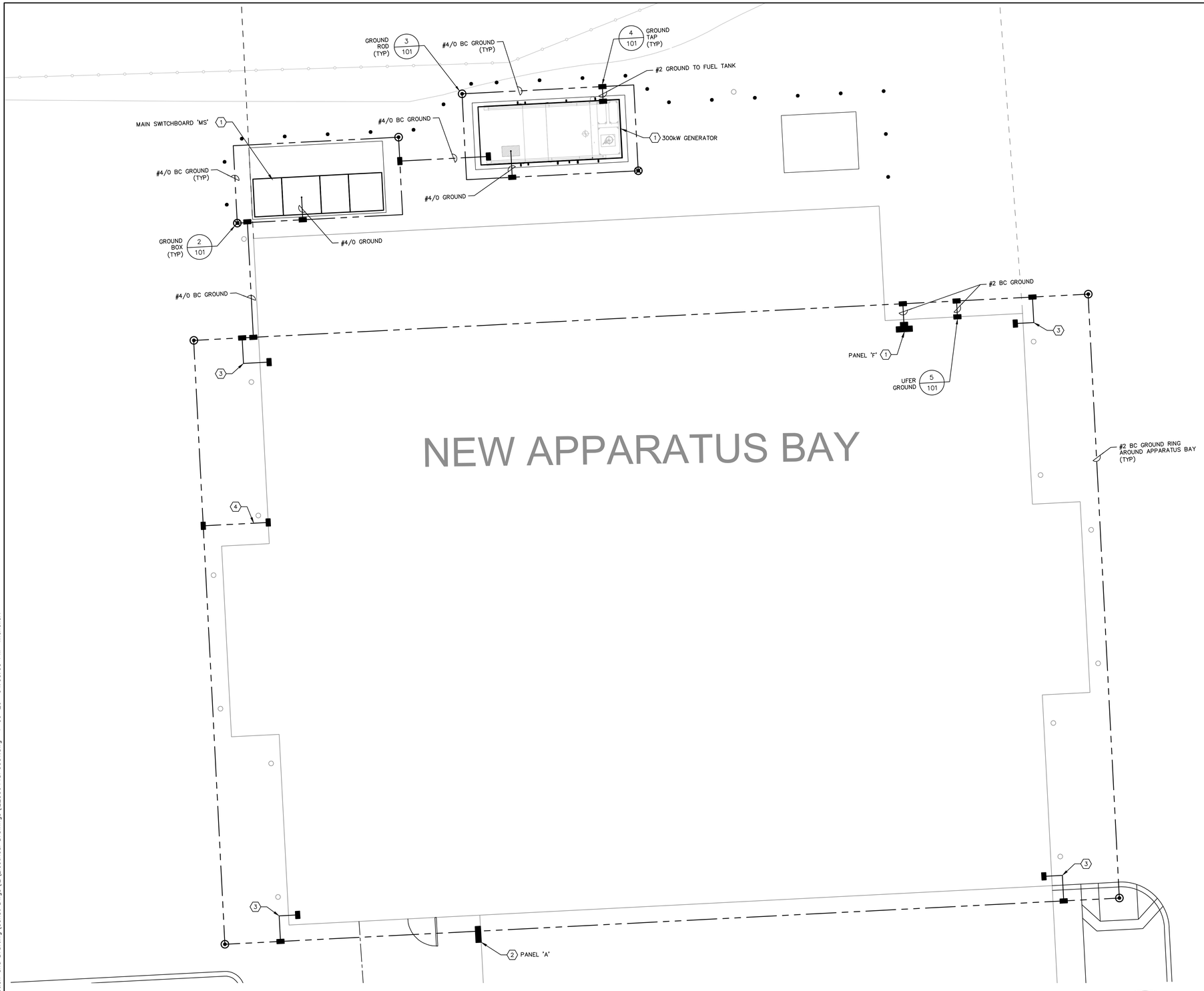

GENERAL NOTES:

1. SEE ELECTRICAL SYMBOLS AND GENERAL NOTES ON SHEET 87.
2. ALL GROUNDING AND BONDING SHALL BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 250.

CONSTRUCTION NOTES:

1. SEE SINGLE LINE DIAGRAM ON SHEET 88 FOR EQUIPMENT DETAILS.
2. PANELBOARD IS TO BE PROVIDED BY GLOBAL MODULAR INC. AS PART OF LIVING QUARTER OR GYM MODULAR BUILDING PACKAGE. CONTRACTOR SHALL VERIFY EXACT PANELBOARD LOCATION PRIOR TO FEEDER CONDUIT/WIRE INSTALLATION.
3. INSTALL #2 GROUND TO METAL BUILDING FRAME.
4. INSTALL #2 GROUND TO METAL WATER PIPE. SEE PLUMBING PLANS FOR BUILDING WATER SUPPLY ENTRY LOCATION.

0 5 10

1 INCH = 5 FEET

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CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

GROUNDING PLAN

DRN. BY: AM	DES. BY: AM	CK'D. BY: AM/DR

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CONDUIT & CABLE SCHEDULE

CONDUIT			CONDUIT FILL			COMMENTS
No.	Qty.	Size (In)		FROM	TO	
P-100	1	4	3/8" NYLON PULL CORD	SCE FACILITIES (SEE SCE PLANS FOR DETAILS)	SCE PAD-MOUNTED TRANSFORMER	CONDUIT QTY. & SIZE PER SCE PLANS, SEE SCE PLANS FOR DETAILS (SERVICE REQUEST #4044496 PROJECT #3166536)
P-101	4	4	3/8" NYLON PULL CORD	SCE PAD-MOUNTED TRANSFORMER	MAIN SWITCHBOARD 'MS' (PULL SECTION)	CONDUIT QTY. & SIZE PER SCE PLANS, SEE SCE PLANS FOR DETAILS (SERVICE REQUEST #4044496 PROJECT #3166536)
P-102	4	3	4#350kcmil, 1#4/0 GND	GENERATOR	MAIN SWITCHBOARD 'MS' (ATS)	
P-103	1	1-1/2	4#1, 1#6 GND	MAIN SWITCHBOARD 'MS' (DISTRIBUTION SECTION)	PANEL 'A'	
P-104	1	1-1/2	4#1, 1#6 GND	MAIN SWITCHBOARD 'MS' (DISTRIBUTION SECTION)	PANEL 'B'	
P-105	1	1-1/2	4#1, 1#6 GND	MAIN SWITCHBOARD 'MS' (DISTRIBUTION SECTION)	PANEL 'C'	
P-106	1	1-1/2	4#1, 1#6 GND	MAIN SWITCHBOARD 'MS' (DISTRIBUTION SECTION)	PANEL 'D'	
P-107	1	2	4#1/0, 1#4 GND	MAIN SWITCHBOARD 'MS' (DISTRIBUTION SECTION)	PANEL 'E'	
P-108	2	2	4#3/0, 1#2 GND	MAIN SWITCHBOARD 'MS' (DISTRIBUTION SECTION)	PANEL 'F'	
P-109	1	1-1/2	4#2, 1#8 GND	MAIN SWITCHBOARD 'MS' (DISTRIBUTION SECTION)	PANEL 'G'	
P-110	1	2	3/8" NYLON PULL CORD	MAIN SWITCHBOARD 'MS' (DISTRIBUTION SECTION)	(F) BATTERY CABINET	STUB-UP, CAP, AND TAG CONDUIT, AS SHOWN ON PLANS
P-111	1	2	2#300kcmil, 1#4 GND	MAIN SWITCHBOARD 'MS' (DISTRIBUTION SECTION)	TRANSFORMER 'TX-TF'	
P-112	1	2	3#3/0, 1#4 GND	TRANSFORMER 'TX-TF'	PANEL 'TF'	
P-113	1	2	3#4, 1#6 GND	MAIN SWITCHBOARD 'MS' (DISTRIBUTION SECTION)	120 GAL WATER HEATER (APPARATUS BAY)	ROUTE CONDUIT/WIRE THROUGH DISCONNECT SWITCH, AS SHOWN ON PLANS; SEE MECH. PLANS FOR EQUIPMENT DETAILS
L-100	1	1	3#10, 1#10 GND	PANEL 'F'	GENERATOR	GENERATOR AUXILIARY POWER
L-101	1	1	2#10, 1#10 GND	PANEL 'G'	LIGHT POLES	SEE CITY PLANS FOR LIGHT POLE INFORMATION
L-102	1	1	2#10, 1#10 GND	PANEL 'G'	ACCESS GATE MOTOR/CONTROLLER	
L-103	1	1	4#10, 1#10 GND	PANEL 'G'	PRESSURE WASHER RECEPT. & OUTDOOR TRUCK WASH	
L-104	1	1	3/8" NYLON PULL CORD	PANEL 'G'	(F) LEVEL 2, DUAL-PORT, POWER SHARE EV CHARGER	TERMINATE CONDUIT AT PULL BOX FOR (F) EV CHARGER, AS SHOWN ON PLANS
L-105	1	1	3/8" NYLON PULL CORD	PANEL 'G'	(F) LEVEL 2, DUAL-PORT, POWER SHARE EV CHARGER	TERMINATE CONDUIT AT PULL BOX FOR (F) EV CHARGER, AS SHOWN ON PLANS
L-106	1	1	2#12, 1#12 GND	PANEL 'F'	CIRCULATION FAN 'CF-1'	ROUTE CONDUIT/WIRE THROUGH SINGLE POLE SWITCH, AS SHOWN ON PLANS; SEE MECH. PLANS FOR EQUIPMENT DETAILS
L-107	1	1	3#10, 1#10 GND	PANEL 'F'	VEHICLE EXHAUST FAN CONTROL PANEL 'VEXC-1'	SEE MECHANICAL PLANS FOR VEHICLE EXHAUST SYSTEM DETAILS; COORDINATE WITH VEX CONTRACTOR
L-108	1	1	3#10, 1#10 GND	VEHICLE EXHAUST FAN CONTROL PANEL 'VEXC-1'	VEHICLE EXHAUST FAN 'VEXF-1'	ROUTE CONDUIT/WIRE THROUGH DISCONNECT SWITCH, AS SHOWN ON PLANS; COORDINATE WITH VEX CONTRACTOR
L-109	1	1	3#8, 1#10 GND	PANEL 'F'	ELECTRIC UNIT HEATER 'EUH-1'	ROUTE CONDUIT/WIRE THROUGH DISCONNECT SWITCH, AS SHOWN ON PLANS; SEE MECH. PLANS FOR EQUIPMENT DETAILS
L-110	1	1	3#8, 1#10 GND	PANEL 'F'	ELECTRIC UNIT HEATER 'EUH-2'	ROUTE CONDUIT/WIRE THROUGH DISCONNECT SWITCH, AS SHOWN ON PLANS; SEE MECH. PLANS FOR EQUIPMENT DETAILS
L-111	1	1-1/2	3/8" NYLON PULL CORD	PANEL 'F'	(F) SCBA FILL STATION	STUB, CAP AND TAG CONDUIT, AS SHOWN ON PLANS; COORDINATE EXACT STUB-OUT LOCATION W/ THE CITY
L-112	1	1	2#12, 1#12 GND	PANEL 'F'	SPLIT SYSTEM HEAT PUMP 'DS-1' (ODU)	ROUTE CONDUIT/WIRE THROUGH DISCONNECT SWITCH, AS SHOWN ON PLANS; SEE MECH. PLANS FOR EQUIPMENT DETAILS
L-113	1	1	2#12, 1#12 GND	SPLIT SYSTEM HEAT PUMP 'DS-1' (ODU)	SPLIT SYSTEM HEAT PUMP 'DS-1' (IDU)	SEE MECH. PLANS FOR EQUIPMENT DETAILS
L-114	1	1	2#12, 1#12 GND	PANEL 'F'	LOUVER 'L-2' ACTUATOR	ROUTE CONDUIT/WIRE THROUGH SINGLE POLE SWITCH, AS SHOWN ON PLANS; SEE MECH. PLANS FOR EQUIPMENT DETAILS
L-115	1	1	2#12, 1#12 GND	PANEL 'F'	'VEXR-1' RECEPTACLE	SEE MECH. PLANS FOR EQUIPMENT AND RECEPTACLE INSTALLATION DETAILS
L-116	1	1	2#12, 1#12 GND	PANEL 'F'	'VEXR-2' RECEPTACLE	SEE MECH. PLANS FOR EQUIPMENT AND RECEPTACLE INSTALLATION DETAILS
L-117	1	1	2#12, 1#12 GND	PANEL 'F'	'VEXR-3' RECEPTACLE	SEE MECH. PLANS FOR EQUIPMENT AND RECEPTACLE INSTALLATION DETAILS
L-118	1	1	2#10, 1#10 GND	PANEL 'F'	EXHAUST FAN 'EF-1'	ROUTE CONDUIT/WIRE THROUGH SINGLE POLE SWITCH AND DISCONNECT SWITCH, AS SHOWN ON PLANS; SEE MECH. PLANS FOR EQUIPMENT DETAILS
L-119	1	1	2#6, 1#6 GND	PANEL 'F'	EXHAUST FAN 'EF-2'	ROUTE CONDUIT/WIRE THROUGH DISCONNECT SWITCH AND LOUVER DAMPER INTERLOCK, AS SHOWN ON PLANS; SEE MECH. PLANS FOR EQUIPMENT DETAILS
L-120	1	1	2#8, 1#10 GND	PANEL 'F'	AIR COMPRESSOR 'AC-1'	ROUTE CONDUIT/WIRE THROUGH DISCONNECT SWITCH, AS SHOWN ON PLANS; SEE MECH. PLANS FOR EQUIPMENT DETAILS
L-121	1	1-1/2	3/8" NYLON PULL CORD	PANEL 'F'	(F) DETOX SAUNA	STUB, CAP AND TAG CONDUIT, AS SHOWN ON PLANS; COORDINATE EXACT STUB-OUT LOCATION W/ THE CITY
L-122						
L-123	1	1	3#12, 1#12 GND	PANEL 'F'	APP. BAY ROLL-UP GARAGE DOOR OPERATOR #1	COORDINATE EXACT LOCATION WITH CLEARSPAN PRIOR TO CONDUIT AND WIRE INSTALLATION
L-124	1	1	3#12, 1#12 GND	PANEL 'F'	APP. BAY ROLL-UP GARAGE DOOR OPERATOR #2	COORDINATE EXACT LOCATION WITH CLEARSPAN PRIOR TO CONDUIT AND WIRE INSTALLATION
L-125	1	1	3#12, 1#12 GND	PANEL 'F'	APP. BAY ROLL-UP GARAGE DOOR OPERATOR #3	COORDINATE EXACT LOCATION WITH CLEARSPAN PRIOR TO CONDUIT AND WIRE INSTALLATION
L-126	1	1	3#12, 1#12 GND	PANEL 'F'	APP. BAY ROLL-UP GARAGE DOOR OPERATOR #4	COORDINATE EXACT LOCATION WITH CLEARSPAN PRIOR TO CONDUIT AND WIRE INSTALLATION
L-127	1	1	3#12, 1#12 GND	PANEL 'F'	APP. BAY ROLL-UP GARAGE DOOR OPERATOR #5	COORDINATE EXACT LOCATION WITH CLEARSPAN PRIOR TO CONDUIT AND WIRE INSTALLATION
L-128	1	1	3#12, 1#12 GND	PANEL 'F'	APP. BAY ROLL-UP GARAGE DOOR OPERATOR #6	COORDINATE EXACT LOCATION WITH CLEARSPAN PRIOR TO CONDUIT AND WIRE INSTALLATION
C-100	1	1	4#14	MAIN SWITCHBOARD 'MS' (ATS)	GENERATOR	GENERATOR START/STOP CONTROL FROM ATS
C-101	1	1	2#14	GENERATOR REMOTE E-STOP BUTTON	GENERATOR	GENERATOR REMOTE EMERGENCY STOP
C-102	1	1	2#14	GENERATOR	GENERATOR REMOTE ANNUNCIATOR PANEL	GENERATOR BATTERY VOLTAGE TO REMOTE ANNUNCIATOR PANEL
C-103	1	1	MANUFACTURER SPECIFIED CABLE	FIRE STATION ALERT SYSTEM (LIVING QUARTERS)	FRONT ACCESS GATE PUSH BUTTON/DOORBELL	CONTRACTOR SHALL COORDINATE WIRE/CABLE WITH FIRE SYSTEM INTEGRATOR/CONTRACTOR; FIELD VERIFY EXACT CONDUIT STUB-UP LOCATIONS
C-104	1	1	MANUFACTURER SPECIFIED CABLES	'EUH-1,2' THERMOSTAT	ELECTRIC UNIT HEATERS 'EUH-1' & 'EUH-2'	CONTRACTOR SHALL COORDINATE WIRE/CABLE WITH HVAC CONTRACTOR AND PER EQUIPMENT MANUFACTURER RECOMMENDATION
C-105	1	1	MANUFACTURER SPECIFIED CABLE	SPLIT SYSTEM HEAT PUMP 'DS-1' CONTROLLER	SPLIT SYSTEM HEAT PUMP 'DS-1' (IDU)	CONTRACTOR SHALL COORDINATE WIRE/CABLE WITH HVAC CONTRACTOR AND PER EQUIPMENT MANUFACTURER RECOMMENDATION
C-106	1	1	MANUFACTURER SPECIFIED CABLE	'VEXR-1' SAFETY SHUT OFF BUTTON	'VEXR-1' CRAB RETURN SYSTEM CONTROL BOX	CONTRACTOR SHALL COORDINATE WIRE/CABLE WITH VEX CONTRACTOR; SEE MECH. PLANS FOR EQUIPMENT AND INSTALLATION DETAILS
C-107	1	1	MANUFACTURER SPECIFIED CABLE	'VEXR-2' SAFETY SHUT OFF BUTTON	'VEXR-2' CRAB RETURN SYSTEM CONTROL BOX	CONTRACTOR SHALL COORDINATE WIRE/CABLE WITH VEX CONTRACTOR; SEE MECH. PLANS FOR EQUIPMENT AND INSTALLATION DETAILS
C-108	1	1	MANUFACTURER SPECIFIED CABLE	'VEXR-3' SAFETY SHUT OFF BUTTON	'VEXR-3' CRAB RETURN SYSTEM CONTROL BOX	CONTRACTOR SHALL COORDINATE WIRE/CABLE WITH VEX CONTRACTOR; SEE MECH. PLANS FOR EQUIPMENT AND INSTALLATION DETAILS
S-100	1	1	3/C#18 TSP (SEE COMMENTS)	GENERATOR	GENERATOR REMOTE ANNUNCIATOR PANEL	MANUFACTURER RECOMMENDED CABLE: OLFLEX TRAY II CY, 3/C#18 CABLE, PART NO. 2218030

REGISTERED PROFESSIONAL ENGINEER
DINESH BABU PEERAMPALLI
NO. 21736
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04/07/26

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REV.	DESCRIPTION	CK'D	APP	DATE
2	ISSUED FOR BID	DP/DR	-	04/07/26
1	ISSUED FOR REVIEW	DP/DR	-	12/19/25
0	ISSUED FOR BID	AM/DR	-	06/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
CONDUIT & CABLE SCHEDULE

DRN. BY: AM	DES. BY: AM	CK'D. BY: AM/DR

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010	PROJECT NUMBER FA11-1061
June 11, 2025	SHEET 109 OF 151 DWG. NO. 2025-D-010

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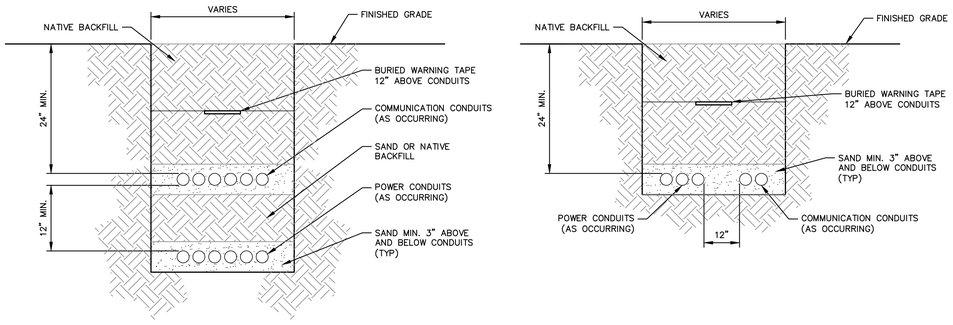
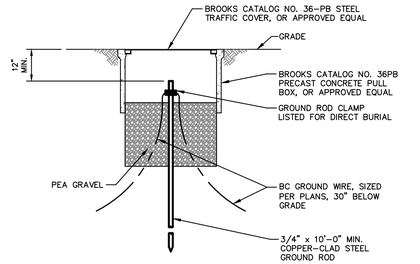


ELECTRICAL TRENCH DETAIL

SCALE: NO SCALE

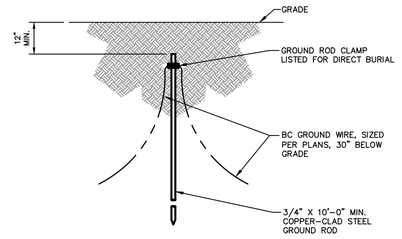
1 / 101



GROUND BOX DETAIL

SCALE: NO SCALE

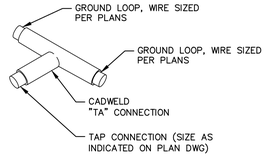
2 / 101



GROUND ROD DETAIL

SCALE: NO SCALE

3 / 101

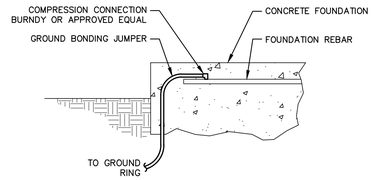


ITEM	DESCRIPTION	QTY
1A	#4/0 MAIN TO #4/0 TAP EXOTHERMIC WELD, WELD METAL & MOLD	AR
1B	#4/0 MAIN TO #2 TAP EXOTHERMIC WELD, WELD METAL & MOLD	AR
1C	#2 MAIN TO #2 TAP EXOTHERMIC WELD, WELD METAL & MOLD	AR

GROUND TAP UNDERGROUND DETAIL

SCALE: NO SCALE

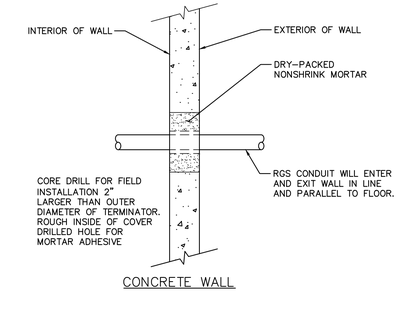
4 / 101



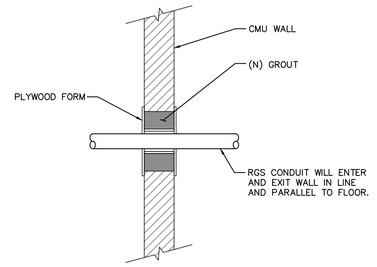
UFER GROUND DETAIL

SCALE: NO SCALE

5 / 101



CONCRETE WALL

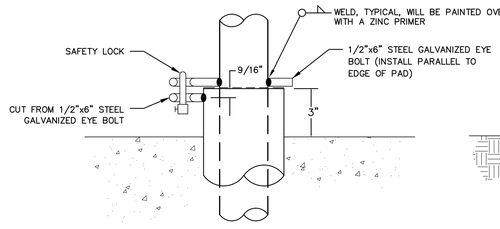


CMU WALL

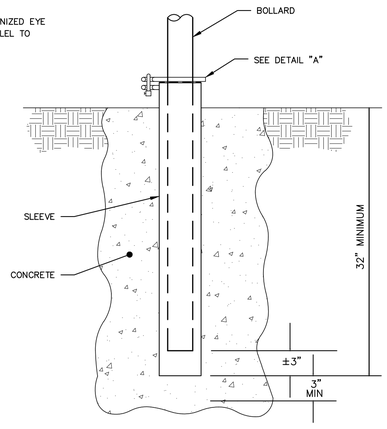
WALL PENETRATION DETAIL

SCALE: NO SCALE

7 / 101



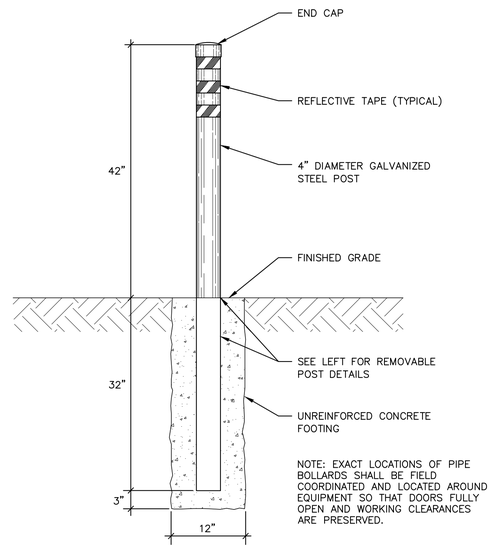
DETAIL "A"



REMOVABLE PIPE BOLLARD

SCALE: NO SCALE

6 / 101



REGISTERED PROFESSIONAL ENGINEER
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04/07/26

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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

ELECTRICAL DETAILS

DRN. BY: AM	DES. BY: AM	CK'D. BY: AM/DR

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER FA11-1061

June 11, 2025 | SHEET 110 OF 151 | DWG. NO. 2025-D-010

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GENERAL NOTES

1. Construction shall comply with the latest edition of the California Building Code (CBC), IBC Standards, IBC adopted Standards, and IBC recognized Standards and of any regulating agencies which have authority over any portion of the work, including local, state and federal safety and health standards, laws and regulations.
2. General notes and typical details apply to all structural features, unless otherwise indicated.
3. If certain features are not fully shown or called out on the drawings or in the specifications, their construction shall be of the same character as for similar conditions.
4. The construction documents represent the finished structure and do not indicate methods, procedures or sequence of construction. It is the responsibility of the Contractor to take necessary precautions to maintain and ensure the integrity of the structure during construction. The Contractor shall provide all measures necessary to protect life and property during construction.
5. The Contractor shall be responsible for coordinating the work of all trades and shall check all dimensions and holes and openings required in structural members. All discrepancies shall be called to the attention of the Structural Engineer and shall be resolved before proceeding with the work.
6. Prior to submitting shop drawings and product data, the Contractor shall verify that the submittals meet the requirements of the drawings and specifications. The contractor shall specifically note any exceptions to these requirements with the submittal.
7. Openings, pockets, etc. shall not be placed in structural members unless specifically detailed on the structural drawings. Notify the Structural Engineer when work requires openings, pockets, etc. in structural members not shown on the structural drawings.
8. Where the general notes and the typical details are in conflict with the specifications, the general notes and typical details shall govern. Notes and details within these drawings take precedence over General Notes.
9. Construction materials shall be spread out if placed on slabs, floors or roofs. Load shall not exceed the design live load per square foot. Provide adequate shoring where overload is anticipated.
10. Unless specifically shown or noted on the structural drawings, anchor bolts or insets for equipment anchorage or installation shall be designed by a Civil or Structural Engineer registered in the state of California, and shall be shown on the architectural, mechanical and/or electrical drawings. Connections of items supported by the structure are the responsibility of the disciplines who are making these attachments. These attachments shall be designed to resist gravity, wind, seismic, thermal loads, etc.

EXISTING UNDERGROUND UTILITIES

1. It is the responsibility of the Contractor to locate existing utilities whether shown hereon or not, and to protect them from damage. The location of any existing underground utilities shown on the drawings, if any, is approximate.
2. The Contractor shall be responsible for any damage which may result from his failure to locate and preserve all existing underground utilities.

DIMENSIONS

1. Do not scale drawings. Drawing scales given are approximate. Dimensions and elevations must be verified with Architectural Drawings. Discrepancies shall be conveyed to the Architect and the Structural Engineer and be resolved prior to proceeding.
2. See Architectural Drawings for dimensions, slopes, depressions and other information not specifically shown on the structural drawings.
3. The Contractor shall review and verify all dimensions prior to starting construction. The Architect/Engineer shall be notified immediately of any discrepancies or inconsistencies.

PROJECT DESIGN CRITERIA

1. Code: 2022 California Building Code
2. Risk Category: IV
3. Snow Loads

   Ground Snow Load, p_g = 0 psf
4. Wind Design Data

   Design Method: Envelope Method
   Exposure Category: C
   Basic Wind Speed (3-sec. gust), V_{ult}: 105 mph
5. Earthquake Design Data:

   Seismic Importance Factor, I_e: 1.50
   Mapped Spectral Response
   S_S: 1.96 g
   S_1: 0.74 g
   Site Class: E
   Spectral Response Coefficients
   S_{DS}: 1.19 g
   S_{D1}: 1.90 g
   Seismic Design Category: D

EXISTING CONDITIONS

1. Work shown is new unless noted as existing: (E).
2. Existing construction shown on these drawings was obtained from site investigation and can be used for bidding purposes. The contractor shall verify all existing job conditions, review all drawings and verify dimensions prior to construction. The contractor shall notify the Engineer of all discrepancies and exceptions before proceeding with the work.
3. The removal, cutting, drilling, etc. of existing work shall be performed with care in order not to jeopardize the structural integrity of the structure. If structural members or mechanical, electrical or architectural features not indicated for removal interfere with the new work, notify the Engineer immediately and obtain approval before removal of members.
4. The Contractor shall safely shore existing construction wherever existing supports are removed for the new work.
5. The Contractor shall perform the work with minimal inconvenience to the owner and without interruption of day-to-day work operations. The Contractor shall ensure safe travel of persons around areas of construction and shall coordinate all operations with the Owner or the Owner's agent.
6. The Contractor shall promptly repair any damage caused during operations, using materials and workmanship similar to that which was damaged.
7. All removed items, materials and debris, unless otherwise noted, shall be removed promptly from the site and disposed of in a legal manner.
8. Do not core or cut new openings in existing concrete or masonry without specific approval of the Structural Engineer. Submit dimensioned layout of all proposed new openings to the Structural Engineer for review and approval prior to coring or cutting openings. The Contractor, at their own expense, shall use non-destructive methods to locate existing reinforcing. Existing reinforcing shall not be cut without specific approval of the Structural Engineer.

GEOTECHNICAL DATA

1. No geotechnical report is provided for the project. Design of foundation is based on minimum requirements per Section 1806 of the CBC.
2. Foundation Type: Conventional spread foundations and drilled piers (friction).

   Design Values:

ISOLATED FOOTINGS	ALLOWABLE BEARING PRESSURES
DL + LL	1500 psf
DL + LL + Wind or Seismic	2000 psf
LATERAL RESISTANCE	
Passive Pressure	150 pcf
Coefficient of Friction	0.25

3. All footings shall bear on compacted undisturbed soil. Depth of footings shown on the drawings are minimum, and the bottom of footing shall be lowered as required to remove soft or loose materials.

FOUNDATIONS

1. See GEOTECHNICAL DATA notes for additional information.
2. When shown, the elevations of foundations indicate the estimated minimum foundation depths. Elevations shown are for bidding purposes only and are assumed to be in suitable bearing material.
3. The Contractor shall be solely responsible for all excavation procedures, including lagging, shoring and protection of adjacent property, structures, streets and utilities in accordance with the local jurisdiction.
4. Dewater excavations as required to maintain dry working conditions.
5. Excavations shall be properly backfilled. Do not place backfill behind retaining walls before concrete and/or masonry has attained specified 28-day compressive strength. Contractor shall brace or protect building and pit walls below grades from lateral loads until supporting floors and or roofs are in place and have attained full strength.
6. Footing backfill and utility trench backfill within building area shall be mechanically compacted in layers, to the approval of the Geotechnical Engineer. Flooding will not be permitted.
7. All abandoned footings, utilities, etc., that interfere with new construction, shall be removed.
8. The bottom of footings shall be level. Changes in footing elevations shall be made utilizing the TYPICAL STEP IN FOOTING detail, when included within these drawings.
9. Avoid footing penetrations and trenching near footings. Where unavoidable, see TYPICAL PIPE AND TRENCH detail, when included within these drawings.
10. Embedded items must be tied in place prior to foundation inspection.

CONCRETE

1. All portions of work pertaining to concrete construction shall conform to the California Building Code, Chapter 19, ACI Standard 318, and other referenced documents.
2. All concrete shall be ready-mix in accordance with ASTM C94.
3. Cement: ASTM C150 Type II. Where concrete is placed against soils that contain high levels of sulfides, use Type V cement.
4. Aggregate: ASTM C33. Aggregate for normal weight concrete shall conform to ASTM C-33.
5. Aggregate for lightweight concrete shall conform to ASTM C-330. The coarse aggregate size shall not exceed ¾" and the absolute volume of coarse aggregate shall not exceed 9.0 cubic feet per cubic yard of concrete.
6. Non-shrink Grout: ASTM C1107, premixed, non-staining, non-shrink grout.
7. Admixtures shall be approved by Structural Engineer prior to use. Calcium chloride or admixtures containing chloride(s) shall not be used.
8. Provide aggregates that do not contain any substance which may be deleteriously reactive with the alkalies in the cement. Fine and coarse aggregates shall be tested in accordance with ASTM C1260. Should the test data indicate potentially reactive aggregate, reject the aggregate(s) or perform additional testing using ASTM C1567.
9. Concrete mixes shall be designed by a qualified testing laboratory. Mix designs shall conform to ACI 318, Chapter 5, Sec. 1903, & 1904. Mixes are to be reviewed by owner's testing lab and submitted to the Architect/Engineer for approval. Do not cast concrete without approval by Architect/Engineer.

Concrete	Strength	Max Agg. Size	Max W/C Ratio
Foundations	4000 psi	1"	0.48

   All concrete shall be hard rock aggregate, regular-weight concrete, 145 pcf, unless noted otherwise.
10. Maximum slump shall not exceed 3" +/- 1" for footings, slabs on grade, and 4" +/- 1" for other concrete. Slump limitations noted shall apply to concrete mix prior to the addition of any water-reducing admixtures or super-plasticizers.
11. Placement of concrete shall conform to ACI 304. Clean and roughen (by sandblasting, bushammer, or other approved method) to ¼" amplitude for all concrete surfaces against which concrete is to be placed.
12. Concrete shall be placed in accordance with ASTM C94 and ACI Standard 304.
13. When cold weather conditions exist, place concrete in compliance with ACI 305. When hot weather conditions exist, place concrete in compliance with ACI 306. In hot conditions, reinforcing shall be kept cool during concrete placement.
14. Location of construction joints not specified in these drawings must be reviewed by the Structural Engineer. Concrete slab on grade shall have control joints as shown on the foundation plan. Where construction/crack control joints are not specified, provide at a roughly square pattern with segments not exceeding 150 square feet in area.
15. Forms for concrete shall be laid out and constructed to provide for any required cambers.
16. Dry pack or place non-shrink grout under base plates, sill plates, etc., as required for full bearing.
17. All reinforcing bars, anchor bolts and other concrete inserts shall be secured in position prior to placing concrete. Stabbing of anchor bolts or reinforcing into wet concrete is not allowed.
18. Provide sleeves for plumbing, mechanical, and electrical openings in concrete before placing. Do not cut any reinforcing which may conflict. Coring in concrete is not permitted except as shown. Notify the Structural Engineer, in advance, of conditions not shown on the structural drawings.
19. Conduits or pipes shall not be embedded within a slab, wall, beam, concrete fill over metal deck, or column, unless noted otherwise.
20. See architectural drawings for all molds, grooves, reveals, ornaments and grounds to be cast in concrete.
21. Concrete elements shall reach specified 28-day compressive strength before being loaded, UNO.

REINFORCING STEEL

1. All portions of work pertaining to concrete reinforcing construction shall conform to the California Building Code, Chapter 19, ACI Standard 318, and other referenced documents.
2. Reinforcing Steel: ASTM A615 grade 60. ASTM A706 where welded or otherwise indicated.
3. All reinforcement shall be continuous. Stagger splices where possible. Laps shall be per typical details, unless noted otherwise.
4. All reinforcing bar bends shall be made cold. Reinforcing bars shall not be re-bent without approval of Structural Engineer.
5. Dowels between footings and walls or columns shall be the same grade, size, spacing and number as the vertical reinforcement, respectively, unless noted otherwise.
6. Welding of reinforcement shall be with low hydrogen electrodes and shall conform to structural welding code – reinforcing steel, AWS D1.4, by the American Welding Society and ACI 318 Sec. 3.5.2. Welding rods used for the welding of reinforcing shall be E80XX. All welding shall be performed by certified welders.
7. Reinforcing steel shall be clean, free of excessive rust, grease, oil or other material likely to impair bond.
8. Minimum clear concrete cover for reinforcement, unless noted otherwise:

   A. Mild Reinforced Concrete:

Cast against earth:	3 inches
Cast in forms and exposed to earth or weather:	
#6 bar and larger:	2 inches
#5 bar and smaller:	1½ inches
Not exposed to earth or weather:	
Slabs and walls (#11 and smaller):	¾ inch
Beams, girders, and columns (to ties):	1½ inches

   Clearances are to closest reinforcement.

POST-INSTALLED ANCHORS

1. Post-Installed anchors include all adhesive anchors (reinforcing bar dowels and threaded rods) expansion anchors, screw anchors and undercut anchors set in holes drilled in existing concrete or masonry.
2. Installation of post-installed anchors shall conform to all requirements of the applicable code evaluation or IAPMO reports and manufacturers' recommendations.
3. Mark the location of all existing reinforcing in the substrate material within 12" of the proposed locations of all post-installed anchors. Notify the Engineer of any conflicts discovered between the proposed anchor locations and the existing reinforcing prior to fabrication of any steel and prior to any hole drilling, so as to avoid disturbing, cutting, or otherwise harming the existing reinforcing.
4. Holes for adhesive anchors in concrete shall be drilled. Cored holes are not permitted.
5. Do not install adhesive anchors in concrete if concrete strength is less than 2500 psi, age is less than 21 days, or temperature is less than 50 degrees Fahrenheit.
6. Adhesive Anchors in Concrete or Approved Equal (reinforcing bar dowels or threaded rods), UNO:

   A. HILTI "HIT-HY 200" ICC ESR-3187.
   B. HILTI "HIT-RE 500 V3" ICC ESR-3814.
   C. Simpson "SET-XP" Epoxy Adhesive. ICC ESR-2508.
7. Adhesive Anchors in Masonry or Approved Equal (reinforcing bar dowels or threaded rods), UNO:

   A. HILTI "HIT-HY 70" ICC ESR-2682.
   B. Simpson "SET-XP" Epoxy Adhesive. IAPMO ER-265.
8. Expansion Anchors in Concrete or Approved Equal, UNO:

   A. HILTI "Kwik-Bolt TZ" ICC ESR-1917.
   B. Simpson "Strong Bolt 2" ICC ESR-3037.

ABBREVIATIONS

#	Number or Pound		
&	And	IBC	International Building Code
∠ or L	Angle	ICC	International Code Council
@	At	ID	Inside Diameter
ABV.	Above	INFO.	Information
AB	Anchor Bolt	INT.	Interior
ADDL.	Additional		
AISC	American Institute of Steel Construction	JST.	Joist
		JT.	Joint
ALT.	Alternate		
APA	American Plywood Association	KSI	Kips per Square Inch
APPROX.	Approximate		
ARCH.	Architectural, Architect	LL	Live load
ASTM	American Standards of Testing and Materials	LLH	Long Leg Horizontal
		LLV	Long Leg Vertical
		LONG.	Longitudinal
BLDG.	Building	LOC.	Location
BLK.	Block, Blocking	LS	Lag Screw
BLW.	Below	LTWT	Light Weight
BM.	Beam		
BN	Boundary Nailing	MAX.	Maximum
BO	Bottom of	MB	Machine Bolt
BOT.	Bottom	MECH.	Mechanical
BRG.	Bearing	MFR.	Manufacturer
BS	Both Sides	MIN.	Minimum
BTWN.	Between	MISC.	Miscellaneous
CANT.	Cantilever	(N)	New
CBC	California Building Code	NS	Near Side
CHD.	Chord	NTS	Not to Scale
CIP	Cast-in-place	NWT	Normal Weight
CJ	Construction or Control Joint		
CJP	Complete Joint Penetration	OC	On Center
℄ or CL	Center Line	OD	Outside Diameter
CLG.	Ceiling	OH	Opposite Hand
CLR.	Clear	OPNG.	Opening
CMU	Concrete Masonry Unit		
COL.	Column	PAF	Powder-Actuated Fastener
CONC.	Concrete	PERP.	Perpendicular
CONN.	Connection	ℙ OR PL.	Plate
CONT.	Continuous	PLF	Pounds per Linear Foot
COORD.	Coordinate	PLY	Plywood
CSK.	Countersink	PJP	Partial Joint Penetration
CTR.	Center	PSF	Pounds per Square Foot
		PSI	Pounds per Square Inch
D or d	Nail Penny Size	PT	Pressure Treated
ø or DIA.	Diameter	PW	Puddle Weld
DBA	Deformed Bar Anchor		
DBL.	Double	QTY.	Quantity
DET.	Detail		
DF	Douglas Fir	RAD.	Radius
DIAG.	Diagonal	REINF.	Reinforcing
DIM.	Dimension	REQ.	Required
DKG.	Decking	RET.	Retaining
DL	Dead Load		
DO.	Ditto	SAD	See Architectural Drawings
DWG.	Drawing	SCHD.	Schedule
		SHT.	Sheet
(E)	Existing	SHTG.	Sheathing
EA.	Each	SIM.	Similar
EF	Each Face	SMD	See Mechanical Drawings
EJ	Expansion Joint	SMS	Sheet Metal Screw
ELEV., EL.	Elevation	SOG	Slab on Grade
EMBED.	Embedment	SPEC.	Specification
EN	Edge Nail, End Nail	SQ.	Square
EO	Edge of	SS	Stainless Steel
EOC	Edge of Concrete	STD.	Standard
EQ.	Equal	STGD.	Staggered
EQUIP.	Equipment	STIFF.	Stiffener
ES	Each Side	STL.	Steel
EW	Each Way	STRUCT.	Structural
EXP.	Expansion	STRGR.	Stringer
EXT.	Exterior	SW	Shear Wall
		SYM.	Symmetrical
FDN.	Foundation		
FF	Finish Floor	T&B	Top and Bottom
FG	Finish Grade	T&G	Tongue and Groove
FIN.	Finish	TEMP.	Temporary
FJ	Floor Joist	THRU.	Through
FLR.	Floor	TN	Toe Nail
FN	Field Nail	TO	Top of
FOC	Face of Concrete	TOB	Top of Beam
FOM	Face of Masonry	TOC	Top of Concrete
FOS	Face of Stud	TOG	Top of Grating
FRMG.	Framing	TOS	Top of Steel
FS	Far Side	TOW	Top of Wall
FT.	Foot, Feet	TRANSV.	Transverse
FTG.	Footing	TYP.	Typical
GA.	Gauge	UNO	Unless Noted Otherwise
GALV.	Galvanized	URM	Unreinforced Masonry
GL.	Grid Line		
GLB	Glued-laminated Beam	VERT.	Vertical
GYP.	Gypsum Board	VIF	Verify in Field
HD	Holdown	WWF	Welded Wire Fabric
HDG	Hot Dipped Galvanized	w/	With
HDR.	Header	w/o	Without
HGR.	Hanger	WP	Work Point
HORIZ.	Horizontal	WSHR.	Washer
HSB	High Strength Bolt		
HSS	Hollow Structural Section		
HT.	Height		

REV.	DESCRIPTION	CK'D	APP	DATE
2	ISSUED FOR BID	VA	MRP	04/07/26
1	ISSUED FOR REVIEW	VA	MRP	12/19/25
0	ISSUED FOR BID	VA	MRP	06/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

STRUCTURAL GENERAL NOTES

DRN. BY: VA	DES. BY: VA	CK'D. BY: MRP

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER 93710

December 19, 2025 | SHEET111 OF 151 | DWG. NO. 2025-D-010

REGISTERED PROFESSIONAL ENGINEER
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SUBMITTALS

1. Submittals shall be submitted to the Prime Consultant and Structural Engineer for review prior to fabrication of the items.

2. A schedule for submittal of shop drawings shall be prepared by the Contractor and reviewed by the Prime Consultant and Structural Engineer prior to the start of fabrication. The schedule shall proportion the quantity of shop drawings to be reviewed in each submittal to allow sufficient time, as deemed reasonable in the professional judgement of the Prime Consultant and Structural Engineer, to permit adequate review. Allow a minimum of (10) working days for review by the Structural Engineer.

3. Shop drawings shall indicate the date or revision of drawing(s) from which the drawings were prepared. Submittals that do not identify the latest date or revision of drawing(s) will be returned without review. Only shop drawings that are complete will be accepted for review.

4. If, after review, the shop drawings must be revised and resubmitted, the shop drawings shall identify each revision and/or addition by clouding or other means to assure proper review.

5. Submittals will not be accepted directly from subcontractors. Submittals will be accepted from the General Contractor only after being reviewed and signed by the General Contractor, indicating compliance with the requirements of the construction documents. Submittals not complying with the requirements noted above or in the specifications will be returned without review.

6. Submittals shall include those indicated on the following list as well as any other items indicated in the specifications. This list is provided for convenience only and may not incorporate all requirements indicated in the project specifications.

CONCRETE REINFORCEMENT

1. Shop drawings complying with the requirements of ACI SP–66. include bar schedules, shapes of bent bars, spacing of bars, and location of splices.

2. Manufacturer's Certificate: Certify that reinforcing steel and accessories supplied for this project meet or exceed specified requirements.

3. Reports: Certified copies of mill test reports for each heat of reinforcing provided to the project, documenting compliance with the applicable ASTM specification, including chemical analysis, tensile tests and bend tests.

CAST–IN–PLACE CONCRETE

1. Mix designs and test data for concrete mixes, at least 15 days prior to intended placement. Mix design submittals shall include, as a minimum, the following:

   A. List of materials proposed weights and volumes of each material per cubic yard.
   B. Specification of source for each material.
   C. Gradation listing of aggregates and certification that coarse and fine aggregates meet the requirements listed in the concrete materials article of the cast–place concrete section of the specifications.
   D. List of admixtures, with manufacturer's data sheets.
   E. Certification that all aggregates are compatible with the proposed cement.
   F. Laboratory test reports from trial batches of field experience, as applicable for the specific mix proposed for use.
   G. The mix design shall be signed by a Professional Engineer licensed in the state of California.

2. Product data, material safety data sheets (MSDS) and Code Evaluation Reports, as applicable, for proprietary materials and items, including curing compounds, epoxy resins, surface treatments and proprietary anchoring systems.

3. Drawings indicating proposed locations of construction joints and control joints.

4. Description of curing methods proposed and products to be employed.

POST–INSTALLED ANCHORS

1. Product data and Code Evaluation Reports for anchors proposed as alternatives to those specified.

2. Preparation instructions and recommendations.

3. Installation methods.

4. Storage and handling requirements and recommendations.

STRUCTURAL OBSERVATIONS

1. Structural observation is not required.

POST–INSTALLED ANCHORS PER ICC AND/OR OTHER APPROVED AGENCY EVALUATION REPORTS

1. Verify the following:

   A. The specific manufacturer and model of anchors have been approved for the application by the Architect/Engineer.

   B. The holes are drilled at the angle required and of the diameter and depth required.

   C. The holes are clean prior to installation of the anchors.

   D. The adhesive packaging indicates an expiration date and that the expiration date has not passed.

   E. The adhesive is mixed properly and that the initial portion of adhesive coming out of the nozzle is wasted, as required by the manufacturer.

   F. The anchors are installed according to the manufacturer's recommendations.

2. Perform tests of anchors according to ASTM E 488 and as follows:

   A. Test ten percent of each application of anchors to the tensile or torque proof load as indicated on the drawings.

   B. One application of anchors or dowels shall be defined as those anchors or dowels installed by a single crew in a single day.

   C. Test locations are random at the discretion of the testing lab, unless otherwise directed by the Architect/Engineer.

   D. Tension test loads shall be maintained for a minimum of two minutes.

3. Tension Test criteria: Anchor displacement at the end of the loading period shall be limited to one–fifth of the nominal anchor diameter. Displacement following release of load shall return to zero.

4. Torque Test criteria: Test torque must be reached within a half turn of the nut, except for ⅜" diameter anchors, for which test torque must be reached within a quarter turn of the nut.

5. If any anchor fails the test, test all anchors in the same application not previously tested until 10 consecutive anchors pass.

6. Adhesive dowels in horizontal or upwardly inclined orientations require continuous special inspection and shall be performed by personnel certified by an applicable certification program in accordance with ACI 318 section 17.8.

SCHEDULE OF SPECIAL INSPECTIONS AND TESTS 2024 IBC

1. Special inspections and testing shall be performed in accordance with the approved plans and specifications, statement of special inspections and building code sections 1704 and 1705.

2. The schedule of special inspections summarizes the special inspections and tests required. Special inspectors shall refer to the approved plans and specifications for detailed special inspection requirements. Any additional tests and inspections required by the approved plans and specifications shall also be performed.

3. Schedule of special inspections and tests applicable to this project.

   A. Special inspections per sections 1704 and 1705 (only indicated items are required)
   B. Special inspections for wind resistance/seismic resistance per section 1705.12/1705.13

Notation Used in Table:

Column headers:
C Indicates continuous inspection is required.
P Indicates periodic inspections are required. The notes below and/or contract documents should clarify
Box entries:
X Is placed in the appropriate column to denote either "C" continuous or "P" periodic inspections.
––– Denotes an activity that is a one–time activity.
Std. Indicates that the standard defines frequency.

Additional detail regarding inspections and tests are provided in the project specifications or notes on the drawings.

4. Contractor responsible for the construction of the seismic–force–resisting system shall submit a written statement of responsibility to the building official prior to the commencement of work on the system.

5. Reports will be submitted to the building official and the registered design professional in responsible charge in accordance with section 1704.2.4.

6. A final report of special inspections documenting required special inspections, testing and correction of any discrepancies noted in the inspection shall be submitted prior to issuance of a certificate of use and occupancy (section 1704.2.4). The final report will document.

   A. Required special inspections
   B. Correction of discrepancies noted in inspections.

7. The owner recognizes their obligation to ensure that the construction complies with the approved permit documents and to implement this program of special inspections in partial fulfillment of these obligations, the owner will retain and directly pay for the special inspections as required in section 1704.2.

8. This plan has been developed with the understanding that the building official will:

   A. Review and approve the qualifications of the special inspectors who will perform the inspections.
   B. Monitor special inspection activities on the job site to assure that the special inspectors are qualified and are performing their duties as called for in this statement of special in inspection.
   C. Review submitted inspection reports.
   D. Perform inspections as required by the local building code.

VERIFICATION AND INSPECTION			C	P	REQ'D (?)
1705.3 Concrete					
Table 1705.3 – Concrete Construction					
1.	Inspection of reinforcing steel, including prestressing tendons and placement			X	YES
2.	Reinforcing bar welding				
	a.	Verify weldability if not ASTM A706		X	
	b.	Single pass fillet welds max 5/16"		X	
	c.	Inspect other welds	X		
3.	Inspection of anchors cast in concrete			X	
4.	Inspection of anchors installed in hardened concrete.				
	a.	Adhesive anchors horizontally or upward inclined	X		YES
	b.	Mechanical anchors and other adhesive anchors		X	YES
5.	Verify use of required design mix			X	YES
6.	Prior to concrete placement fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete		X		YES
7.	Inspect concrete and shotcrete placement for proper application techniques		X		YES
8.	Verify maintenance of specified curing temperature and techniques			X	
9.	Inspect prestressed concrete for:				
	a.	Application of prestressing forces, and	X		
	b.	Grouting of bonded prestressing tendons	X		
10.	Inspect erection of precast concrete members			X	
11.	Verify in–situ concrete strength, prior to stressing of tendons in posttensioned concrete and prior to removal of shores and forms from beams and structural slabs			X	
12.	Inspect formwork for shape, location, and dimensions of the concrete member being formed			X	YES
ACI 318–19 Section 26.12: Compressive tests of specimens taken during concrete placement				X	

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1	ISSUED FOR REVIEW	VA	MRP	12/19/25
0	ISSUED FOR BID	VA	MRP	06/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

STRUCTURAL GENERAL NOTES

DRN. BY: VA	DES. BY: VA	CK'D. BY: MRP

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

SPEC. NUMBER 2025-010	PROJECT NUMBER 93710
December 19, 2025	SHEET 112 OF 151	DWG. NO. 2025-D-010

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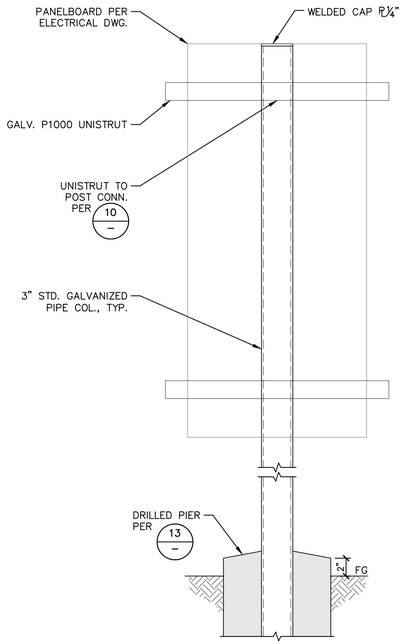
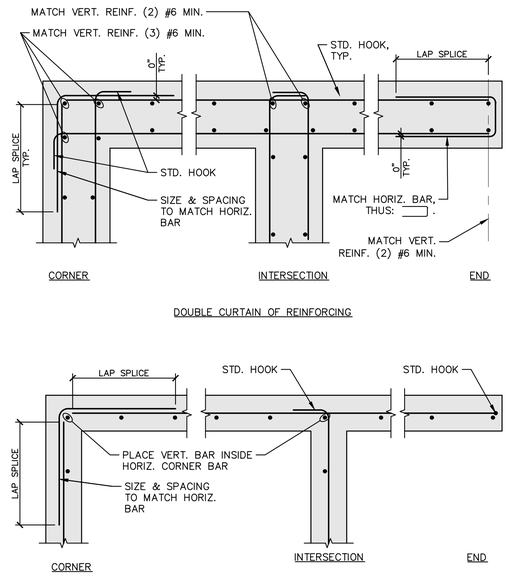


PANELBOARD DETAIL 5

SCALE: 1-1/2" = 1'-0"



DOUBLE CURTAIN OF REINFORCING

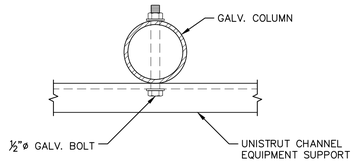
SINGLE CURTAIN OF REINFORCING

TYPICAL HORIZONTAL WALL & FOOTING REINFORCING DETAIL 6

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

NOTES:

- CHANNEL SUPPORTS AND CHANNEL HARDWARE SHALL BE UNISTRUT OR AN APPROVED EQUAL
  - a. CHANNEL MEMBER COATING SHALL BE PRE-GALVANIZED PER ASTM A653 CONFIRMING TO A G-90 COATING OR HOT-DIPPED GALVANIZED PER ASTM A123 OR A153.
  - b. ALL CHANNEL NUTS AND BOLTS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153.
  - c. ALL UNISTRUT GENERAL FITTINGS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A123 OR A153



UNISTRUT TO POST DETAIL 10

SCALE: 3" = 1'-0"

	BASIC DEVELOPMENT LENGTH (ld), INCHES			LAP SPLICE LENGTH, INCHES			DEVELOPMENT OF BAR W/ STD. HOOK (ldh), INCHES		
BAR SIZE	f'c=3000	f'c=4000	f'c=5000	f'c=3000	f'c=4000	f'c=5000	f'c=3000	f'c=4000	f'c=5000
#3	17	15	13	22	19	17	9	8	7
#4	22	19	17	29	25	22	11	10	9
#5	28	24	22	36	31	28	14	12	11
#6	33	29	26	43	37	34	17	15	13
#7	48	42	38	63	54	49	20	17	15
#8	55	48	43	72	62	56	22	19	17
#9	62	54	48	81	70	63	25	22	20
#10	70	61	54	91	79	70	28	25	22
#11	78	67	60	101	87	78	31	27	24

MODIFICATION FACTORS:

THE LENGTHS NOTED ABOVE SHALL BE MULTIPLIED BY THE FOLLOWING FACTORS, AS APPLICABLE:
- 1.3 FOR TOP BARS (MORE THAN 12" CONC. CAST BELOW)
- 1.3 FOR LIGHTWEIGHT CONCRETE
- 1.5 FOR BARS WITH LESS THAN 2 BAR DIAMETERS CLEAR SPACING OR FOR BARS WITH LESS THAN 1 BAR DIAMETER OF CONCRETE COVER
- 1.5 FOR EPOXY-COATED BARS, U.O.N.

THE MODIFICATION FACTORS NOTED ABOVE SHALL BE COMBINED WHEN MULTIPLE CONDITIONS OCCUR. FOR EXAMPLE, FOR TOP BARS IN LIGHTWEIGHT CONCRETE, THE SPLICE LENGTH NOTED ABOVE SHALL BE MULTIPLIED BY 1.3x1.3=1.69

NOTES:

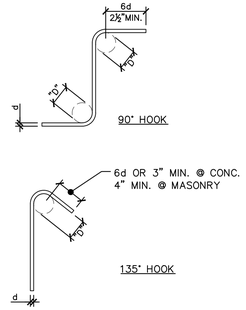
1. VALUES APPLY TO GRADE 60 REINFORCEMENT
2. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS SHALL BE STAGGERED.
3. SPLICES IN WALLS CONTAINING TWO CURTAINS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION.
4. LAP SPLICES IN CONCRETE MASONRY SHALL BE AS SPECIFIED IN "TYP. LAP SPLICE SCHEDULE – MASONRY".
5. USE MECHANICAL COUPLERS FOR #14 AND LARGER BARS.
6. TOP BAR FACTOR DOES NOT APPLY TO BARS IN WALLS.

TYPICAL DEVELOPMENT LENGTH & LAP SPLICE SCHEDULE – CONCRETE 4

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

BAR SIZE	"D" (IN.)
#3	1½
#4	2
#5	2½

NOTE:
ALL BENDS SHALL BE MADE COLD.

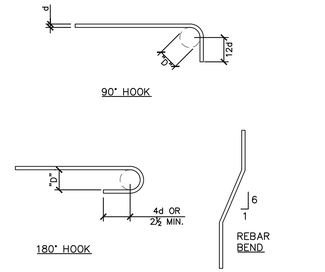


TYP. TIE AND STIRRUP HOOKS 7

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

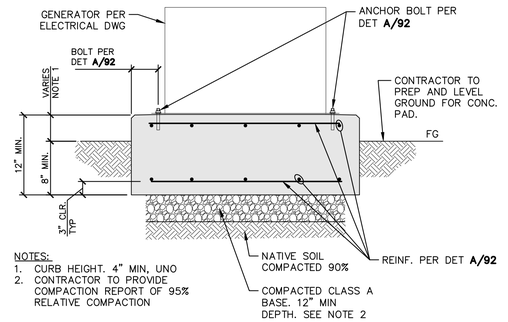
BAR SIZE	"D" (IN.)
#3	2¼
#4	3
#5	3¾
#6	4½
#7	5¼
#8	6
#9	9½
#10	10¾
#11	12

NOTE:
ALL BENDS SHALL BE MADE COLD.



TYP. REINF. BENDS 8

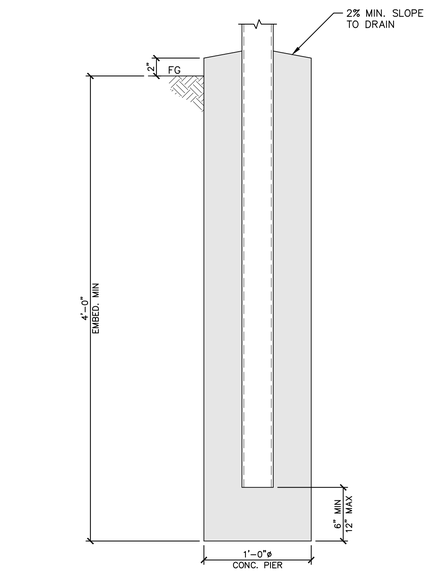
SCALE: 3/4" = 1'-0"



NOTES:
1. CURB HEIGHT. 4" MIN, UNO
2. CONTRACTOR TO PROVIDE COMPACTION REPORT OF 95% RELATIVE COMPACTION

CONCRETE BASE FOR GENERATOR 12

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



DRILLED PIER DETAIL 13

SCALE: 1-1/2" = 1'-0"

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2	ISSUED FOR BID	VA	MRP	04/07/26
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0	ISSUED FOR BID	VA	MRP	06/11/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7
STRUCTURAL TYPICAL DETAILS

DRN. BY: VA	DES. BY: VA	CK'D. BY: MRP

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER 93710

December 19, 2025 | SHEET 113 OF 151 | DWG. NO. 2025-D-010

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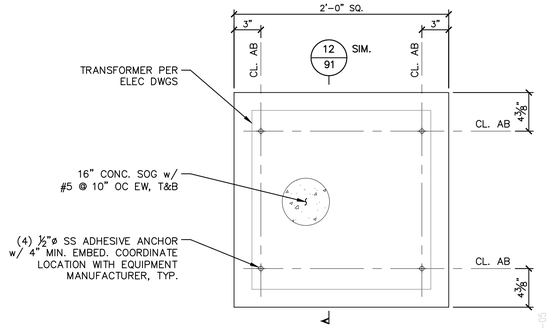
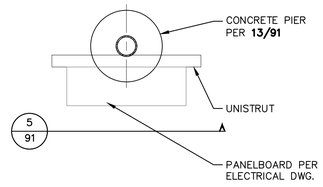


TRANSFORMER TX–TF FOUNDATION PLAN (D)

SCALE: 1–1/2" = 1'–0"

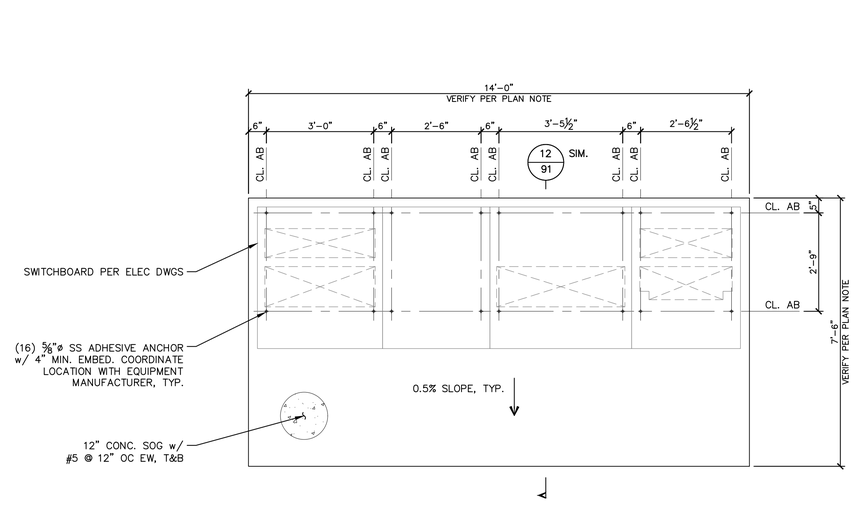


PANELBOARD TF FOUNDATION PLAN (C)

SCALE: 1" = 1'–0"

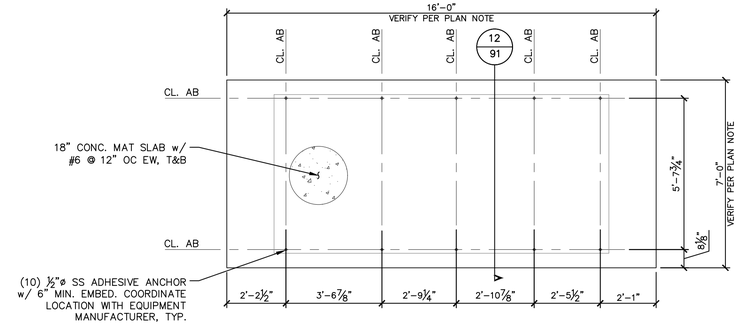
FOUNDATION PLAN NOTES

1. SEE SHEETS **89** THROUGH **90** FOR GENERAL NOTES AND **91** FOR TYPICAL DETAILS.
2. SLAB SHALL BE FLAT FOR EQUIPMENT FOOTPRINT AREA AND CAN SLOPE AWAY FROM EQUIPMENT FACE PER PLAN.
3. CONTRACTOR SHALL VERIFY ALL ANCHOR BOLT LOCATIONS AND DIMENSIONS OF GENERATOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT STRUCTURAL ENGINEER REGARDING ANY DISCREPANCIES.
4. CONTRACTOR SHALL VERIFY ALL ANCHOR BOLT LOCATIONS AND DIMENSIONS OF SWITCHBOARD PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT STRUCTURAL ENGINEER REGARDING ANY DISCREPANCIES.
5. CONTRACTOR SHALL VERIFY ALL ANCHOR BOLT LOCATIONS AND DIMENSIONS OF TRANSFORMER PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT STRUCTURAL ENGINEER REGARDING ANY DISCREPANCIES.
6. REFER TO ELECTRICAL DWG. FOR SITE PLAN AND FOUNDATION LOCATIONS.



SWITCHBOARD FOUNDATION PLAN (B)

SCALE: 1/2" = 1'–0"



GENERATOR FOUNDATION PLAN (A)

SCALE: 3/8" = 1'–0"

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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

FIRE STATION NO. 7

STRUCTURAL FOUNDATION PLAN

DRN. BY: VA	DES. BY: VA	CK'D. BY: MRP

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

SPEC. NUMBER 2025-010 | PROJECT NUMBER 93710

December 19, 2025 | SHEET 114 OF151 | DWG. NO. 2025-D-010

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APPLICABLE CODES

2001 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 CCR
2001 CALIFORNIA BUILDING CODE, VOLUMES 1,2 AND 3 (PART 2, TITLE 24, CCR) (1997 EDITION UNIFORM BUILDING CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR) (1999 NATIONAL ELECTRICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24 CCR) (2000 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24 CCR) (2000 IAPMO UNIFORM PLUMBING CODE AND 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
2001 CALIFORNIA FIRE CODE (PART 9, TITLE 24 CCR)
2001 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)
2001 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

APPLICABLE STANDARDS

NFPA 13 – 1999 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED
NFPA 14 – 2000 EDITION, INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS
NFPA 17A – WET CHEMICAL SYSTEMS – 1990 EDITION
NFPA 24 – 1995 EDITION, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
NFPA 72 – 1999 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED
NFPA 253 – CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS – 1989 EDITION
NFPA 2001 – CLEAN AGENT FIRE EXTINGUISHING SYSTEMS – 1994 EDITION REFERENCE CODE SECTION FOR NFPA STANDARDS – CBC (SFM) 3504.1

CITY OF VENTURA FIRE STATION
2269 ALESSANDRO DR, VENTURA, CA 93001
MANUFACTURED MODULAR BUILDING
(1) 48'x60'

Serial No. 2AG11660

Serial No. 2AG11661

Serial No. 2AG11662

Serial No. 2AG11663

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A2.0	FRAMING PLAN
A2.3	REFLECTED CEILING PLAN
A4.1	INTERIOR ELEVATIONS
A4.2	INTERIOR ELEVATIONS
A4.3	INTERIOR ELEVATIONS
A4.4	INTERIOR ELEVATIONS
A4.5	INTERIOR ELEVATIONS
A5.4	EXTERIOR ELEVATIONS
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M1.3	MECHANICAL PLAN WALL MOUNT 48'x60' PENDING
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	FIRE SPRINKLERS
FS-1	FIRE SPRINKLERS COVER SHEET
FS-2	MODULAR BLDG-FIRE SPRINKLER LAYOUT

GLOBAL MODULAR incorporated

AURORA DESIGNS | MODTECH Designs | MODULAR STRUCTURES INTERNATIONAL INC DESIGNS

CONTRACTORS LICENSE #837357

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PROJECT NAME:

48x60
VENTURA
FIRE DEPARTMENT
2269 ALESSANDRO DR, VENTURA, CA 93001

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:
TITLE SHEET

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER
A0.0
SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

HARDWARE GROUP (ENTRY/OFFICE) 1		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	'FALCON': K511 DANE LEVER 626
1	KEYING	CONSTRUCTION KEY
3	HINGES	'MCKINNEY': T2714 4.5"x4.5" NRP A5133
1	CLOSER	'NORTON': 8301 SLIM COVER (5 LB OPERATING PUSH/PULL PRESSURE)
1	THRESHOLD	'PEMKO': 271A 36"
1	DOOR BOTTOM	'PEMKO': 216AV 36"
1	WEATHER-STRIP	'PEMKO': 2891AS 36"x84"
1	KICK PLATE	'ROCKWOOD': K1050 10"x34"
1	DOOR STOP	'ROCKWOOD': 443 FLOOR STOP (LOCATED 4" FROM WALL)

HARDWARE GROUP (PANIC) 2		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	'VON DUPRIN': PUSH BAR AX-22-L-SP28 RIM EXIT DEVICE
1	EXTERIOR TRIM	'VON DUPRIN': LEVER HANDLE 230L TRIM
1	KEYING	CONSTRUCTION KEY
3	HINGES	'MCKINNEY': T2714 4.5"x4.5" NRP A5133
1	CLOSER	'NORTON': 8301 SLIM COVER (5 LB OPERATING PUSH/PULL PRESSURE)
1	THRESHOLD	'PEMKO': 271A 36"
1	DOOR BOTTOM	'PEMKO': 216AV 36"
1	WEATHER-STRIP	'PEMKO': 2891AS 36"x84"
1	KICK PLATE	'ROCKWOOD': K1050 10"x34"
1	DOOR STOP	'ROCKWOOD': 443 FLOOR STOP (LOCATED 4" FROM WALL)

HARDWARE GROUP (PANIC) 2A		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	'VON DUPRIN': PUSH BAR AX-22-L-SP28 RIM EXIT DEVICE
1	EXTERIOR TRIM	'VON DUPRIN': LEVER HANDLE 230L TRIM
1	KEYING	CONSTRUCTION KEY
3	HINGES	'MCKINNEY': T2714 4.5"x4.5" NRP A5133
1	CLOSER	'NORTON': 8301 SLIM COVER (5 LB OPERATING PUSH/PULL PRESSURE)
1	THRESHOLD	'PEMKO': 271A 36"
1	DOOR BOTTOM	'PEMKO': 216AV 36"
1	FIRE SMOKE GASKETING	'PEMKO': S88
1	KICK PLATE	'ROCKWOOD': K1050 10"x34"
1	DOOR STOP	'ROCKWOOD': 443 FLOOR STOP (LOCATED 4" FROM WALL)

HARDWARE GROUP (PRIVACY) 3		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	'FALCON': 301 DANE LEVER 626
3	HINGES	'MCKINNEY': T2714 4"x4" A5133

HARDWARE GROUP (OFFICE) 4		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	'FALCON': 521 DANE LEVER 626
1	KEYING	CONSTRUCTION KEY
3	HINGES	'MCKINNEY': T2714 4"x4" A5133

HARDWARE GROUP (PASSAGE) 5		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	'FALCON': 101 DANE LEVER 626
3	HINGES	'MCKINNEY': T2714 4"x4" A5133

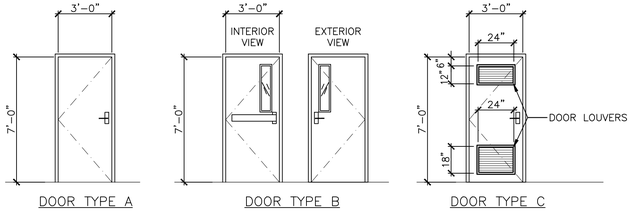
HARDWARE GROUP (STORAGE) 6		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	'FALCON': 581 DANE LEVER 626
1	KEYING	CONSTRUCTION KEY
3	HINGES	'MCKINNEY': T2714 4"x4" A5133

DOOR SCHEDULE

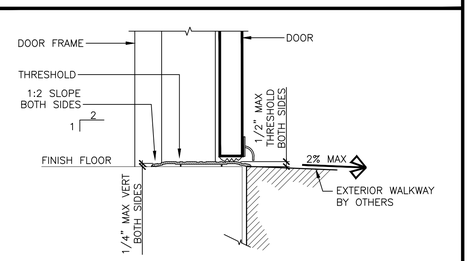
#	#-Room Name	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	HARDWARE GROUP	DOOR MATERIAL	DOOR GAUGE	DOOR FRAME	FRAME GAUGE	GLAZING	FIRE RATING	REMARKS
101	EXT-VESTIBULE 1	B	3'-0"	7'-0"	2	STL	18	KD	16	–	–	–
102	EXT-VESTIBULE 2	B	3'-0"	7'-0"	2A	STL	18	KD	16	–	45 MIN	RATED W/ SMOKE GASKETING
103	EXT-VESTIBULE 3	B	3'-0"	7'-0"	2A	STL	18	KD	16	–	45 MIN	RATED W/ SMOKE GASKETING
104	EXT-VESTIBULE 1	B	3'-0"	7'-0"	2	SCL	–	TM	16	–	–	–
105	CREW OFFICE	A	3'-0"	7'-0"	4	SCL	–	TM	16	–	–	–
106	OPEN AREA	A	3'-0"	7'-0"	5	SCL	–	TM	16	–	–	–
107	INT-VESTIBULE 2	B	3'-0"	7'-0"	2	SCL	–	TM	16	–	–	–
108	INT-VESTIBULE 3	B	3'-0"	7'-0"	2	SCL	–	TM	16	–	–	–
109	BUNK 1	A	3'-0"	7'-0"	4	SCL	–	TM	16	–	–	
110	BUNK 2	A	3'-0"	7'-0"	4	SCL	–	TM	16	–	–	–
111	BUNK 3	A	3'-0"	7'-0"	4	SCL	–	TM	16	–	–	–
112	BUNK 4	A	3'-0"	7'-0"	4	SCL	–	TM	16	–	–	–
113	BUNK 5	A	3'-0"	7'-0"	4	SCL	–	TM	16	–	–	–
114	UTILITY	A	3'-0"	7'-0"	4	SCL	–	TM	16	–	–	–
115	BUNK 6	A	3'-0"	7'-0"	4	SCL	–	TM	16	–	–	–
116	BUNK 7	A	3'-0"	7'-0"	4	SCL	–	TM	16	–	–	–
117	BUNK 8	A	3'-0"	7'-0"	4	SCL	–	TM	16	–	–	–
118	SHOWER 4	A	3'-0"	7'-0"	3	SCL	–	TM	16	–	–	–
119	CAPT/CHIEF OFFICE	A	3'-0"	7'-0"	4	SCL	–	TM	16	–	–	–
120	SHOWER 1	A	3'-0"	7'-0"	3	SCL	–	TM	16	–	–	–
121	SHOWER 2	A	3'-0"	7'-0"	3	SCL	–	TM	16	–	–	–
122	SHOWER 3	A	3'-0"	7'-0"	3	SCL	–	TM	16	–	–	–
123	UTILITY	C	3'-0"	7'-0"	6	SCL	–	TM	16	–	–	LOUVERS

DOOR MATERIAL LEGEND
STL: STEEL DOOR-HOLLOW CORE
SCL: SOLID CORE WOOD LEGACY

DOOR FRAME LEGEND
KD: KNOCK DOWN-HOLLOW METAL
TM: TIMELY METAL



DOOR TYPE



ACCESSIBLE THRESHOLD
SCALE: NTS

1

ROOM FINISH SCHEDULE

ROOM NAME	FLOOR FINISH	BASE	WALLS ELEV. 1	WALLS ELEV. 2	WALLS ELEV. 3	WALLS ELEV. 4	CEILING FINISH	HEIGHT CEILING	REMARKS
BUNK 1	CPT	4TB	VCG	VCG	VCG	VCG	AT	8'-6"	–
BUNK 2	CPT	4TB	VCG	VCG	VCG	VCG	AT	8'-6"	–
BUNK 3	CPT	4TB	VCG	VCG	VCG	VCG	AT	8'-6"	–
BUNK 4	CPT	4TB	VCG	VCG	VCG	VCG	AT	8'-6"	–
BUNK 5	CPT	4TB	VCG	VCG	VCG	VCG	AT	8'-6"	–
BUNK 6	CPT	4TB	VCG	VCG	VCG	VCG	AT	8'-6"	–
BUNK 7	CPT	4TB	VCG	VCG	VCG	VCG	AT	8'-6"	–
BUNK 8	CPT	4TB	VCG	VCG	VCG	VCG	AT	8'-6"	–
VESTIBULE 1	CPT	4TB	VCG	VCG	VCG	VCG	AT	8'-6"	–
VESTIBULE 2	CPT	4TB	VCG	VCG	VCG	VCG	AT	8'-6"	–
VESTIBULE 3	CPT	4TB	VCG	VCG	VCG	VCG	AT	8'-6"	–
CAPTAIN / CHIEF OFFICE	CPT	4TB	VCG	VCG	VCG	VCG	AT	8'-6"	–
SHOWER 1	SV	6SC	FRP	FRP	FRP	FRP	AT	8'-0"	–
SHOWER 2	SV	6SC	FRP	FRP	FRP	FRP	AT	8'-0"	–
SHOWER 3	SV	6SC	FRP	FRP	FRP	FRP	AT	8'-0"	–
SHOWER 4	SV	6SC	FRP	FRP	FRP	FRP	AT	8'-0"	–
CORRIDOR	CPT	4TB	VCG	VCG	VCG	VCG	AT	8'-6"	–
CREW OFFICE	CPT	4TB	VCG	VCG	VCG	VCG	AT	8'-6"	–
DAYROOM	CPT	4TB	VCG	VCG	VCG	VCG	AT	8'-6"	–
OPEN AREA	CPT	4TB	VCG	VCG	VCG	VCG	AT	8'-6"	–
KITCHEN	VCT	4TB	VCG	VCG	VCG	VCG	AT	8'-6"	–
UTILITY	SV	6SC	FRP	FRP	FRP	FRP	AT	8'-0"	–

FLOOR FINISH LEGEND

CPT: CARPET FLOORING
SV: SHEET VINYL FLOORING
VCT: VINYL COMPOSITION TILE
4TB: 4" TOP SET BASE
6SC: 6" SELF COVE BASE

WALL FINISH LEGEND:

VCG: 1/2" VINYL COVERED GYP BOARD.
NOTE: USE TYPE 'X' GYP BOARD WHERE CALL FOR. USE MOISTURE RESISTANT GYP BOARD BEHIND SINKS

FRP: FRP: 1/8" FIBERBOARD REINFORCED PANELS OVER: 1/2" MOISTURE RESISTANT GYP BOARD

CEILING FINISH LEGEND: (CHECK BOX WHERE APPLICABLE)
AT: ACOUSTICAL TILE IN HEAVY DUTY T-BAR GRID ULTIMA BEVELED TEGULAR 24"x24" TILE.

HL: 5/8" GYP BOARD TAPE/TEXTURED/PAINTED

WINDOW FRAME LEGEND
AL: ALUMINUM
HM: HOLLOW METAL

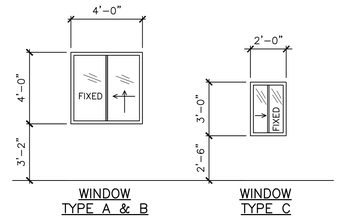
WINDOW FRAME FINISHES
CA: CLEAR ANODIZED
BA: BRONZE ANODIZED
PNT: PAINTED

GLAZING TYPES
1: TEMPERED GRAYLITE
2: CLEAR TEMPERED
3: DUAL PANE
4: FIRE SAFETY GLASS

GLAZING NOTE
1. GLAZING U-FACTOR
OPERABLE=0.60
FIXED=0.52
2. SHGC RANGE: 0.25
3. VT

WINDOW SCHEDULE

WINDOW TYPE	WINDOW WIDTH	WINDOW HEIGHT	WINDOW FRAME	FRAME FINISH	WINDOW GLAZING	REMARKS
A	4'-0"	4'-0"	AL	CA	3	SCREENED
B	2'-0"	3'-0"	AL	CA	3	



WINDOW NOTE
BASEMENTS, HABITABLE ATTICS

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FIRE DEPARTMENT
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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026
CITY ENGINEER — DATE: 5/7/2026
ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:
FINISH, DOOR & WINDOW SCHEDULES

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER
A0.3
SPEC NO. 2025-010 DWG. NO. 2025-D-010

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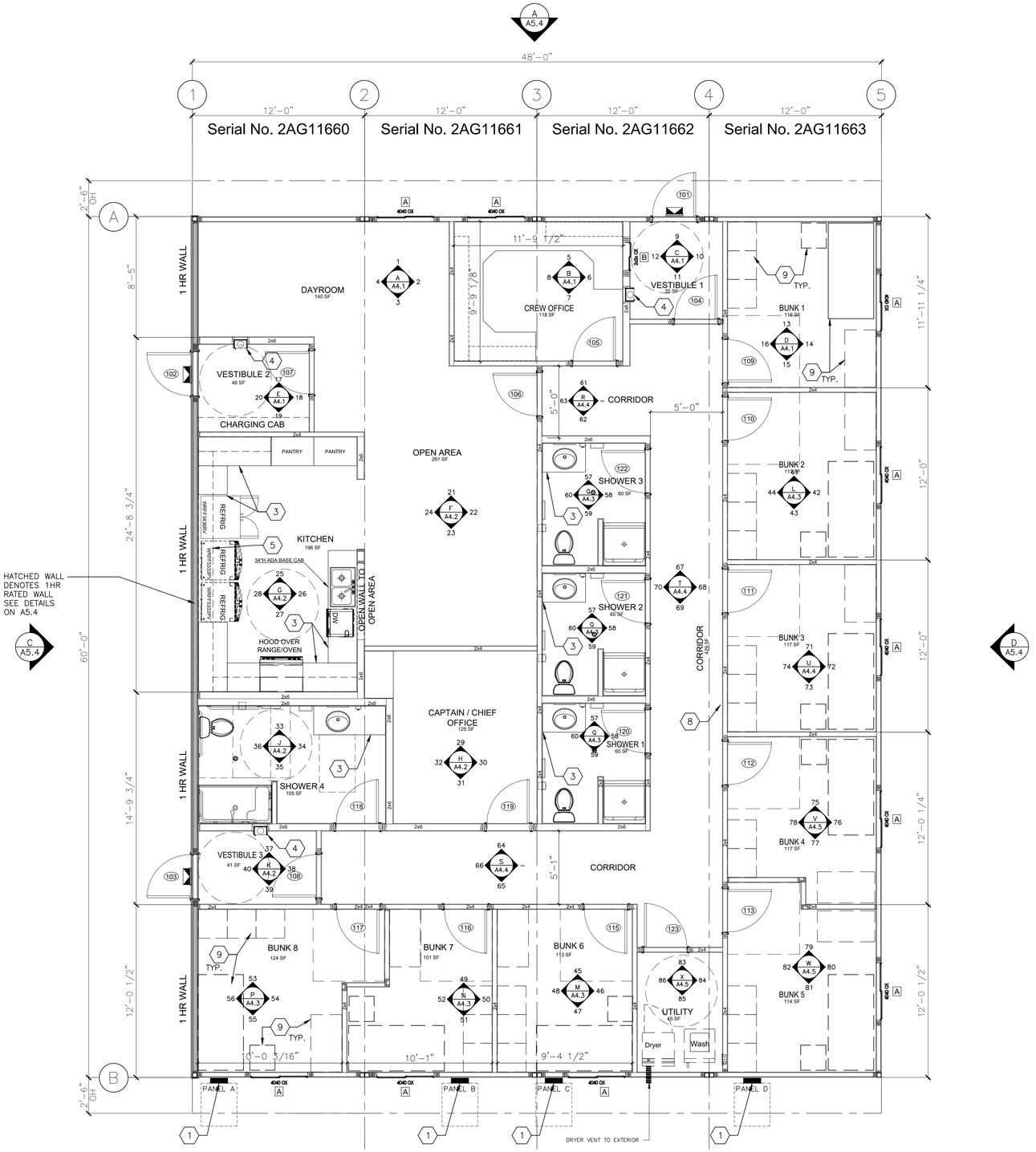

FLOOR PLAN

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

KEY NOTES

1. ELECTRICAL PANEL (SEE ELECTRICAL SHEETS)
2. AC UNIT (SEE MECHANICAL SHEETS)
3. BASE CABINET(S)
4. FIRE EXTINGUISHER–5 LB DRY CHEMICAL W/ 2A–10B–C UL RATING +48" AFF TO TOP OF HANDLE IN SEMI–RECESSED CABINET WITH 4" MAX PROJECTION, TYP.
5. UPPER CABINET(S)
6. ROOM SIGNAGE (SEE SIGNAGE SPECIFICATIONS A0.4 SHEET)
7. EXIT SIGNAGE (SEE SIGNAGE SPECIFICATIONS A0.4 SHEET)
8. INTERIOR WALL
9. FURNITURE BY OTHERS
10. OCCUPANT LOAD SIGN (SEE SIGNAGE SPECIFICATIONS A0.4 SHEET)

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ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:
FLOOR PLAN

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
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A1.0
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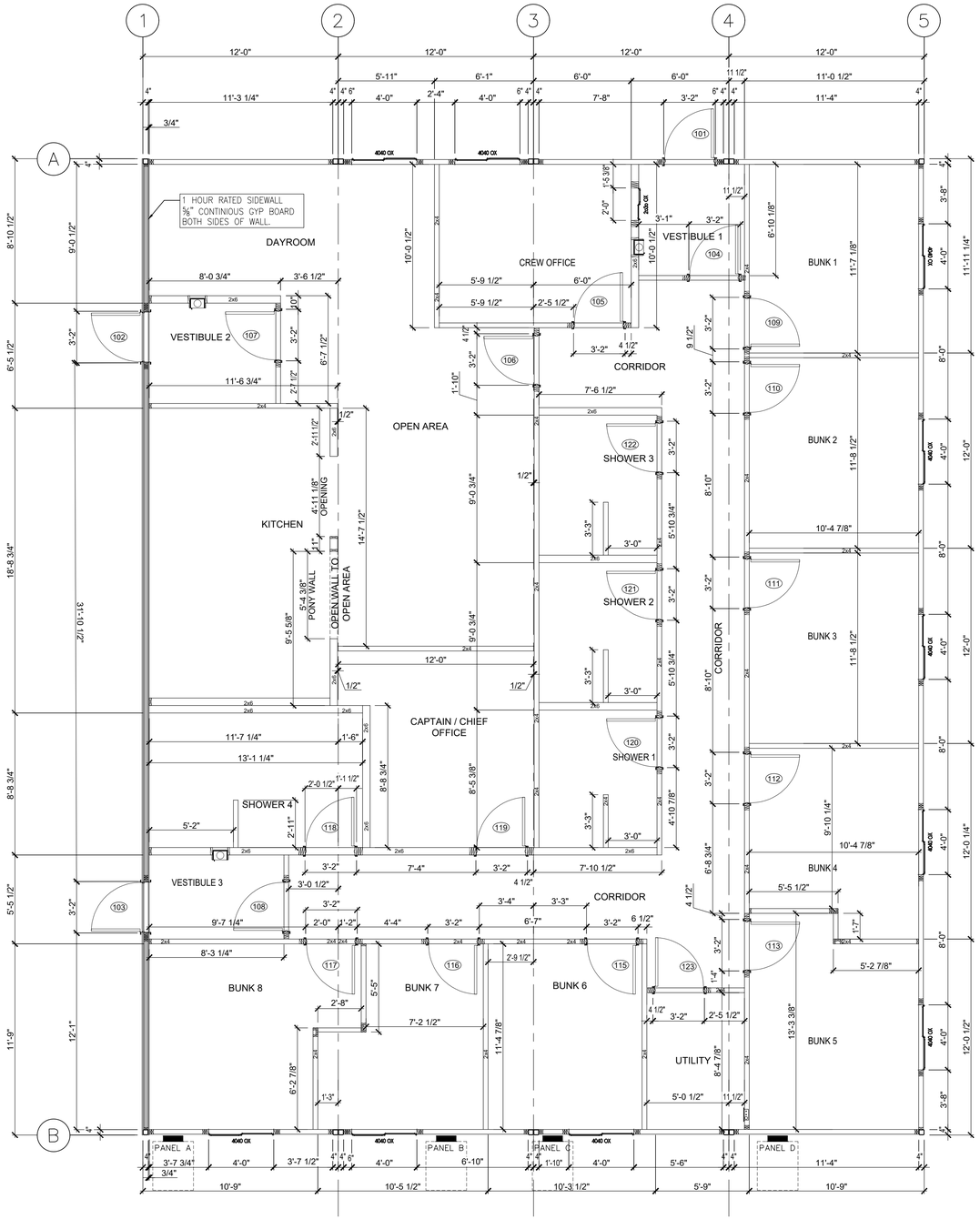

A WALL FRAMING PLAN
SCALE: 1/4"=1'-0"

FOR REFERENCE ONLY

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WALL FRAMING PLAN

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4 -

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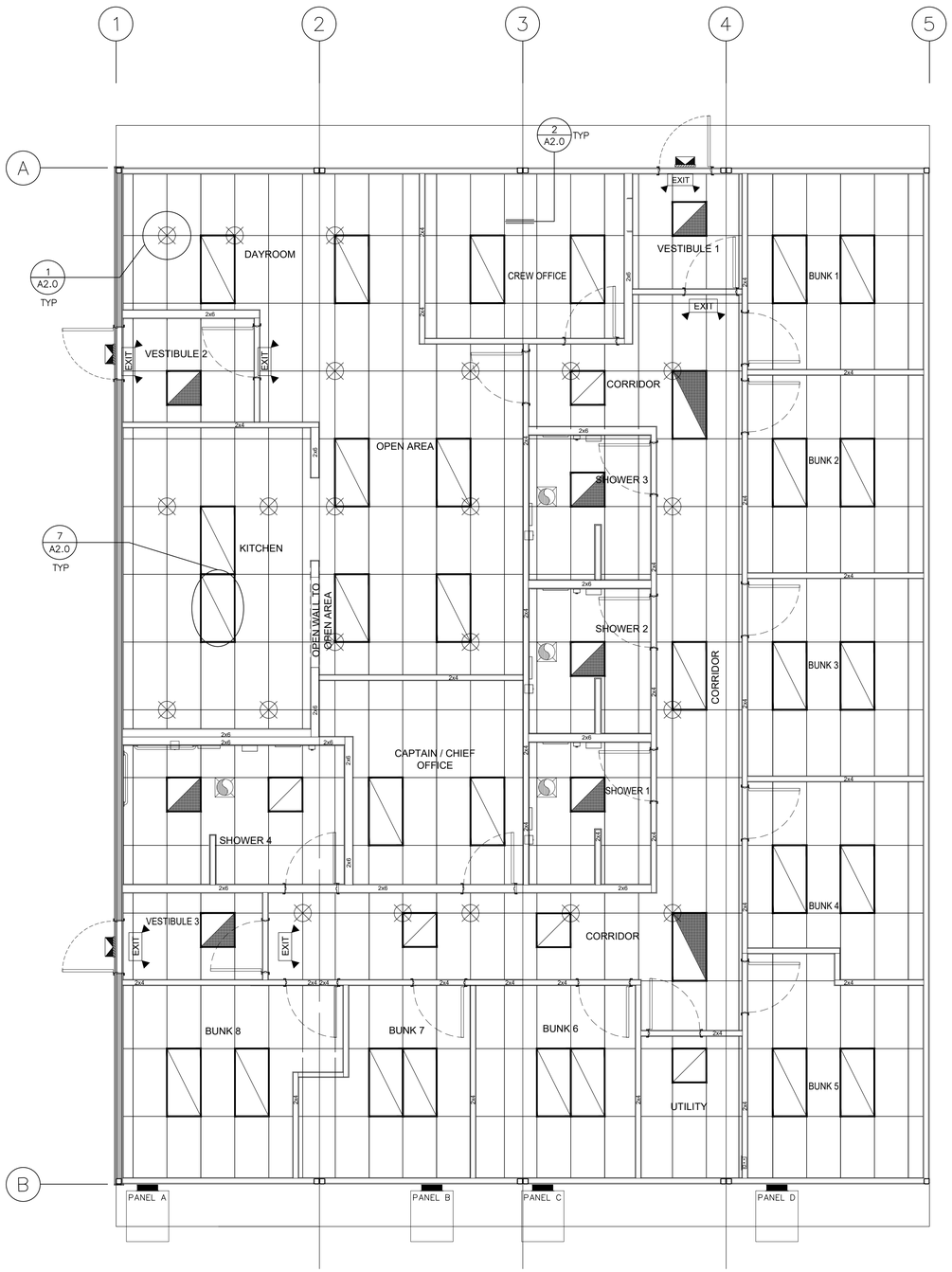

REFLECTED CEILING PLAN SCALE: 1/4"=1'-0"

FOR REFERENCE ONLY

LEGEND

- SUPPLY AIR DIFFUSERS NOT SHOWN FOR CLARITY (SEE MECHANICAL PLAN)
- 2'x4' FLUORESCENT DROP-IN FIXTURE (SEE ELECTRICAL PLAN)
- 4-WAY SPLAY WIRE SYSTEM
- 48" / 24" — T-GRID CEILING
- INDICATES FREE SIDE. ALL OTHER SIDES SHALL BE FIXED (SEE DETAIL 3/A2.0 OR 20/A2.0)
- INDICATES MAIN RUNNER LOCATIONS

FOR NOTES SEE SHEET A2.0

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MFR. STRUCTURAL ENGINEER OF RECORD

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SHEET TITLE:
REFLECTED CEILING PLAN

REVISIONS	
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PROJECT NO.:	00-0000
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A2.3

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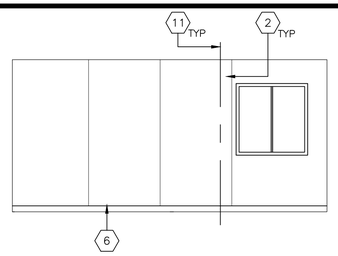
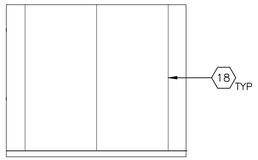
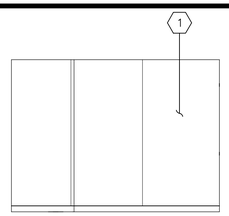


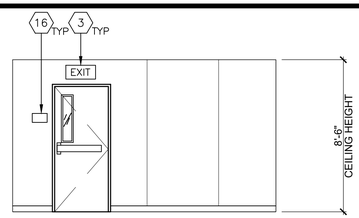
ELEVATION 1



ELEVATION 2



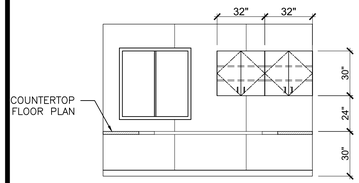
ELEVATION 3



ELEVATION 4

DAYROOM

A



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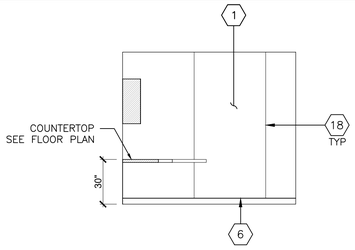

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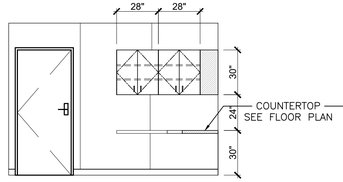

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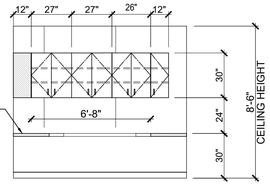
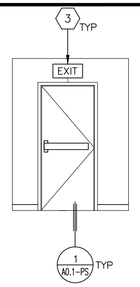


ELEVATION 8

CREW OFFICE

B



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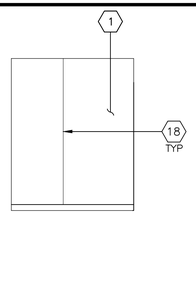
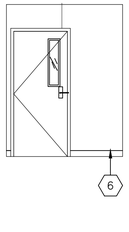


ELEVATION 10



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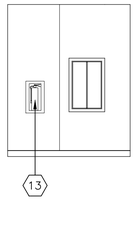
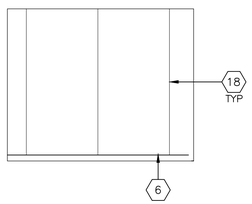


ELEVATION 12

VESTIBULE 1

C



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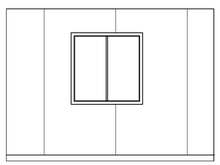

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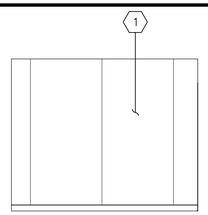

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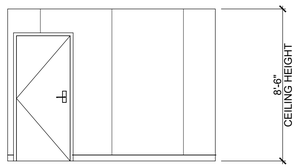
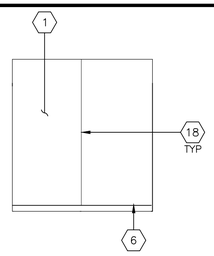


ELEVATION 16

BUNK 1

D



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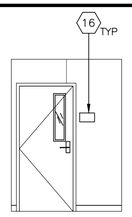

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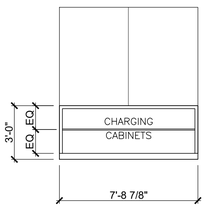

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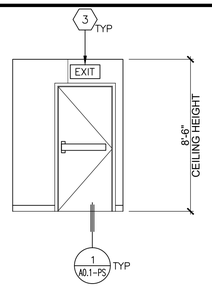

ELEVATION 20

VESTIBULE 2

E

INTERIOR ELEVATIONS 1/4"=1'-0"

FOR REFERENCE ONLY

KEY NOTES

1. TYPICAL INTERIOR FINISH (PAINT COLOR NACRE)
2. CLOSURE AT MODULAR JOINT
3. LIGHTED EXIT SIGN (SEE ELECTRICAL PLAN)
4. FIRE ALARM PULL STATION (SEE ELECTRICAL PLAN)
5. OCCUPANCY SENSOR OR LIGHT SWITCH (SEE ELECTRICAL PLAN)
6. TOP SET BASE (SEE FINISH SCHEDULE)
7. RETURN AIR GRILL
8. NOT USED
9. OPTIONAL INTERIOR WALL/DOOR
10. THERMOSTAT SEE MECHANICAL PLAN
11. MODULAR JOINT
12. 8'-0" x 4'-0" MARKER BOARD EASIER RAIL PROJECT 4" MAX
13. FIRE EXTINGUISHER IN SEMI-RECESSED CABINET 48" MAX A.F.F. TO F.E. HANDLE
14. 12" DIA ELECTRIC CLOCK (OPTIONAL) (SEE ELECTRICAL PLAN)
15. HORN/STROBE (SEE ELECTRICAL PLAN)
16. TACTILE EXIT SIGNAGE (SEE SIGNAGE SHEET)
17. WALL SYSTEM (SEE WALL FRAMING ELEVATION SHEET)
18. INTERIOR FINISH SEAM
19. OCCUPANT LOAD SIGN (SEE SIGNAGE SHEET)
20. ASSISTIVE LISTENING SIGN (SEE SIGNAGE SHEET)

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PROJECT NAME:

48x60
VENTURA
FIRE DEPARTMENT
2289 ALESSANDRO DR, VENTURA, CA 93001

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

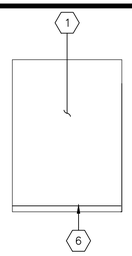
MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:
INTERIOR
ELEVATIONS

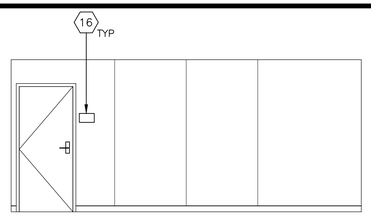
REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER
A4.1
SPEC NO. 2025-010 DWG. NO. 2025-D-010



ELEVATION 21



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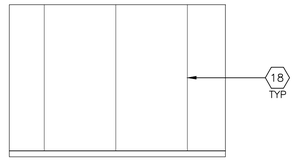

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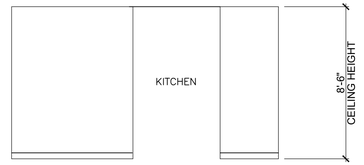
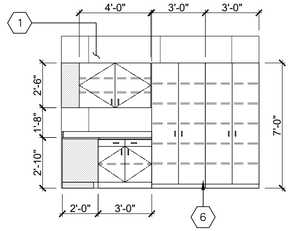


ELEVATION 24

OPEN AREA

F



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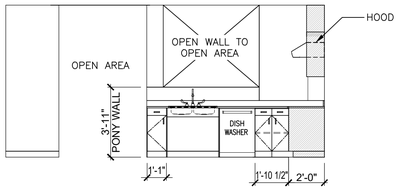

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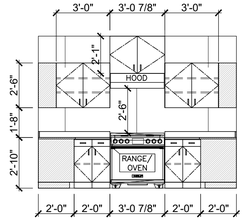

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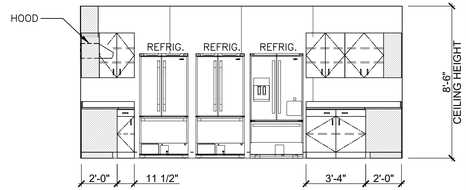
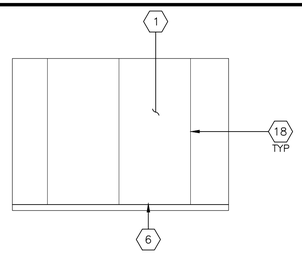


ELEVATION 28

KITCHEN

G



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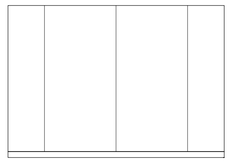

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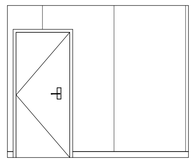

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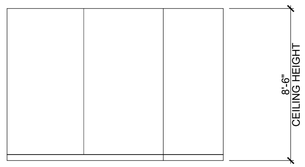
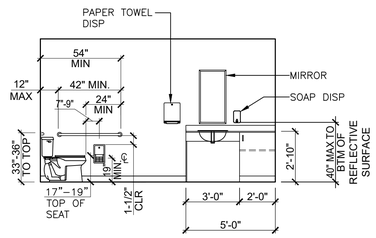


ELEVATION 32

CAPTAIN/ CHIEF OFFICE

H



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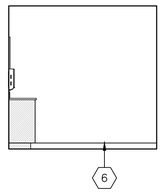

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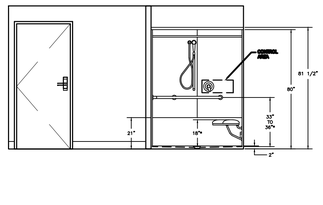

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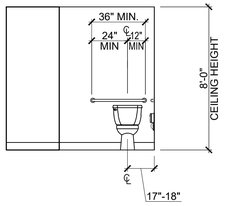
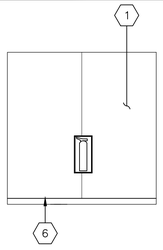


ELEVATION 36

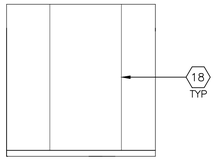
SHOWER 3

J



ELEVATION 37

ELEVATION 38



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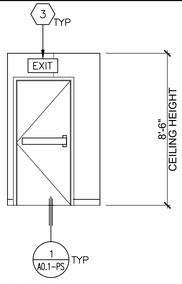

ELEVATION 40

VESTIBULE 3

K

INTERIOR ELEVATIONS 1/4"=1'-0"

FOR REFERENCE ONLY

KEY NOTES

1. TYPICAL INTERIOR FINISH (PAINT COLOR NACRE)
2. CLOSURE AT MODULAR JOINT
3. LIGHTED EXIT SIGN (SEE ELECTRICAL PLAN)
4. FIRE ALARM PULL STATION (SEE ELECTRICAL PLAN)
5. OCCUPANCY SENSOR OR LIGHT SWITCH (SEE ELECTRICAL PLAN)
6. TOP SET BASE (SEE FINISH SCHEDULE)
7. RETURN AIR GRILL
8. ELECTRICAL PANEL +48" TO HANDLE
9. OPTIONAL INTERIOR WALL/DOOR
10. THERMOSTAT SEE MECHANICAL PLAN
11. MODULAR JOINT
12. 8'–0" x 4'–0" MARKER BOARD EASIER RAIL PROJECT 4" MAX
13. FIRE EXTINGUISHER IN SEMI–RECESSED CABINET 48" MAX A.F.F. TO F.E. HANDLE
14. 12" DIA ELECTRIC CLOCK (OPTIONAL) (SEE ELECTRICAL PLAN)
15. HORN/STROBE (SEE ELECTRICAL PLAN)
16. TACTILE EXIT SIGNAGE (SEE SIGNAGE SHEET)
17. WALL SYSTEM (SEE WALL FRAMING ELEVATION SHEET)
18. INTERIOR FINISH SEAM
19. OCCUPANT LOAD SIGN (SEE SIGNAGE SHEET)
20. ASSISTIVE LISTENING SIGN (SEE SIGNAGE SHEET)

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FIRE DEPARTMENT
2289 ALESSANDRO DR, VENTURA, CA 93001

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

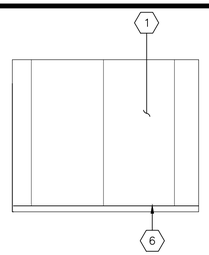
MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:
INTERIOR ELEVATIONS

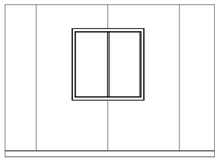
REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

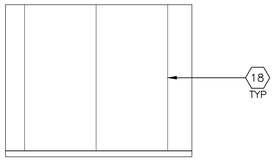
SHEET NUMBER
A4.2
SPEC NO. 2025-010 DWG. NO. 2025-D-010



ELEVATION 41



ELEVATION 42



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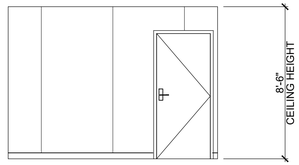
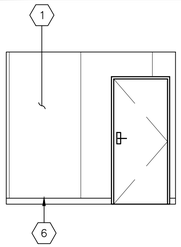


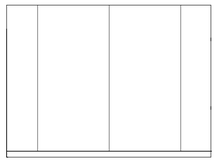
ELEVATION 44

BUNK 2

L



ELEVATION 45



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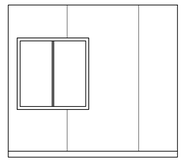

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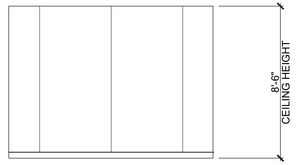
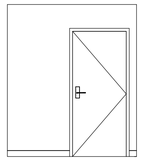


ELEVATION 48

BUNK 6

M



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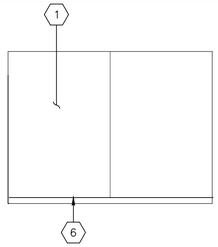

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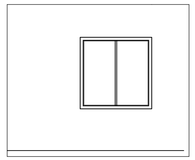

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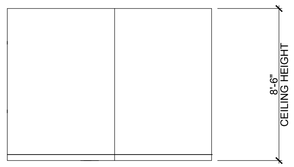
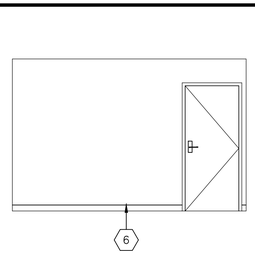


ELEVATION 52

BUNK 7

N



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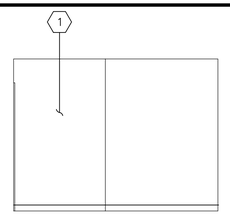

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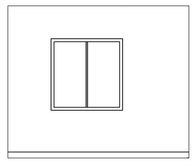
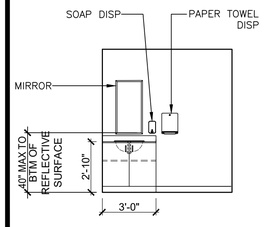


ELEVATION 55

ELEVATION 56

BUNK 8

P



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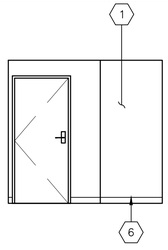

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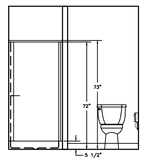

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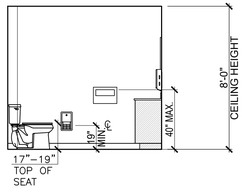

ELEVATION 60

UNISEX RESTROOM/ SHOWER 1 & 2

Q

INTERIOR ELEVATIONS 1/4"=1'-0"

KEY NOTES

1. TYPICAL INTERIOR FINISH (PAINT COLOR NACRE)
2. CLOSURE AT MODULAR JOINT
3. LIGHTED EXIT SIGN (SEE ELECTRICAL PLAN)
4. FIRE ALARM PULL STATION (SEE ELECTRICAL PLAN)
5. OCCUPANCY SENSOR OR LIGHT SWITCH (SEE ELECTRICAL PLAN)
6. TOP SET BASE (SEE FINISH SCHEDULE)
7. RETURN AIR GRILL
8. ELECTRICAL PANEL +48" TO HANDLE
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15. HORN/STROBE (SEE ELECTRICAL PLAN)
16. TACTILE EXIT SIGNAGE (SEE SIGNAGE SHEET)
17. WALL SYSTEM (SEE WALL FRAMING ELEVATION SHEET)
18. INTERIOR FINISH SEAM
19. OCCUPANT LOAD SIGN (SEE SIGNAGE SHEET)
20. ASSISTIVE LISTENING SIGN (SEE SIGNAGE SHEET)

GLOBAL MODULAR incorporated
AURORA DESIGNS · MODTECH Designs · MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

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PROJECT NAME:

48x60
VENTURA
FIRE DEPARTMENT
2289 ALESSANDRO DR, VENTURA, CA 93001

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

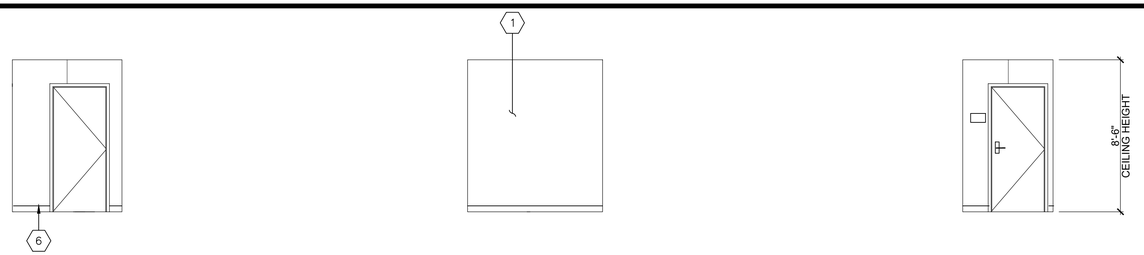
SHEET TITLE:
INTERIOR ELEVATIONS

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

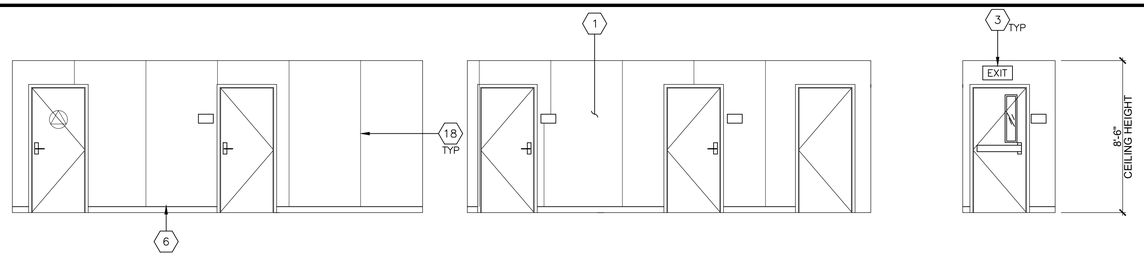
SHEET NUMBER
A4.3
SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY



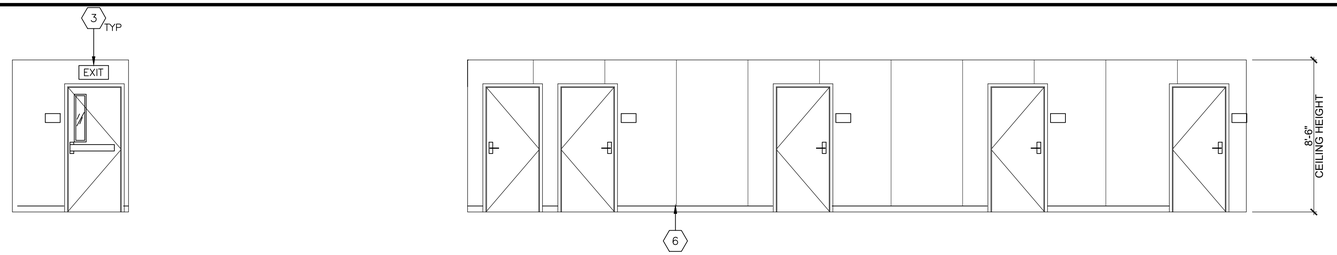
ELEVATION 61 ELEVATION 62 ELEVATION 63

CORRIDOR R

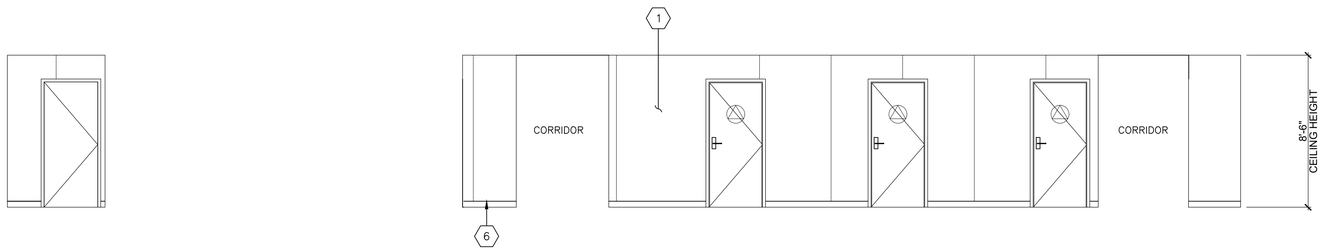


ELEVATION 64 ELEVATION 65 ELEVATION 66

CORRIDOR S

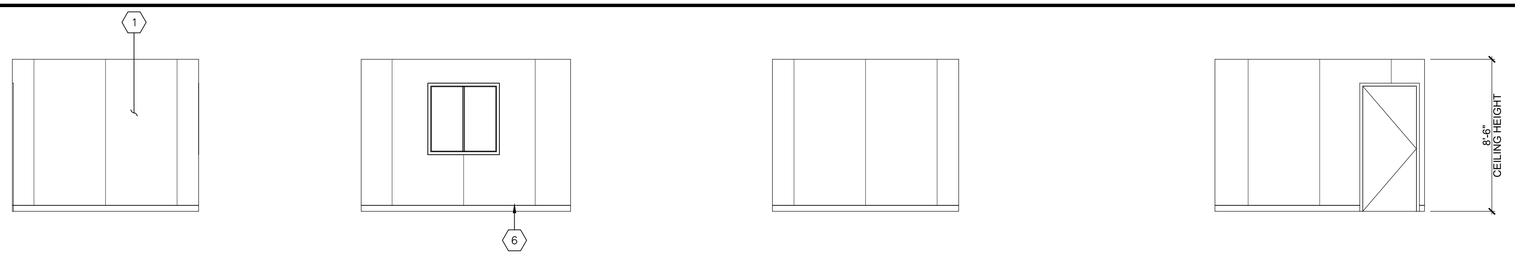


ELEVATION 67 ELEVATION 68



ELEVATION 69 ELEVATION 70

CORRIDOR T



ELEVATION 71 ELEVATION 72 ELEVATION 73 ELEVATION 74

BUNK 3 U

INTERIOR ELEVATIONS 1/4"=1'-0"

FOR REFERENCE ONLY

KEY NOTES

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2. CLOSURE AT MODULAR JOINT
3. LIGHTED EXIT SIGN (SEE ELECTRICAL PLAN)
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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER 5 May 2026 DATE

CITY ENGINEER 5/7/2026 DATE

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MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:
INTERIOR ELEVATIONS

REVISIONS
1 -
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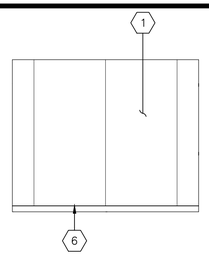
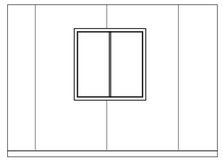
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER
A4.4
SPEC NO. 2025-010 DWG. NO. 2025-D-010



ELEVATION 75



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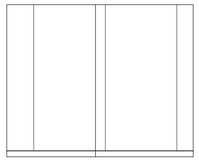

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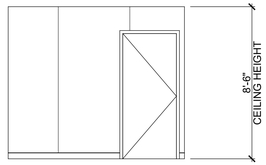
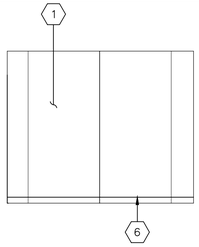


ELEVATION 78

BUNK 4

V



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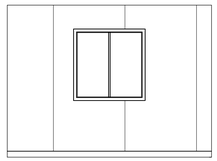

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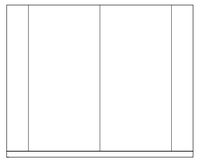

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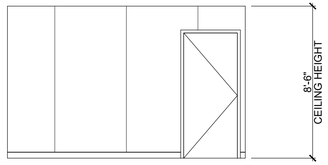
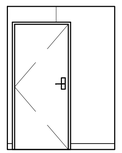


ELEVATION 82

BUNK 5

BUNK 5

W



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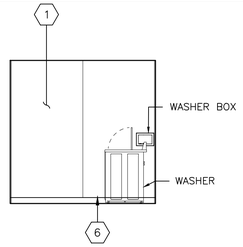

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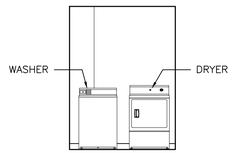

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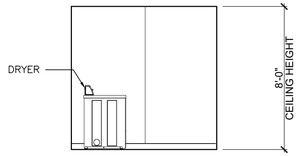

ELEVATION 86

UTILITY

X

INTERIOR ELEVATIONS 1/4"=1'-0"

KEY NOTES

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PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER
A4.5
SPEC NO. 2025-010 DWG. NO. 2025-D-010

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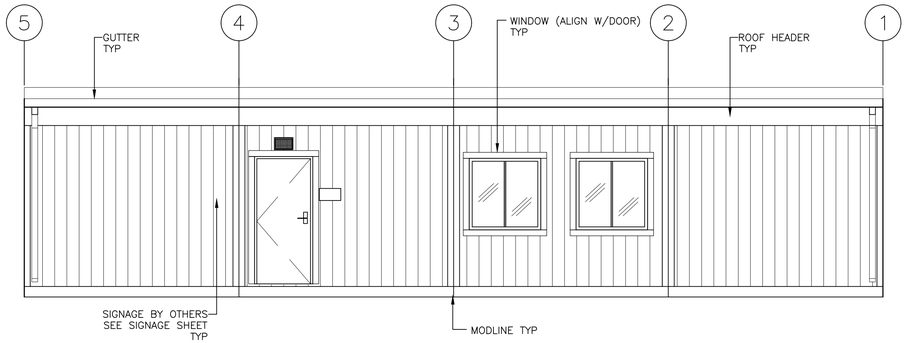
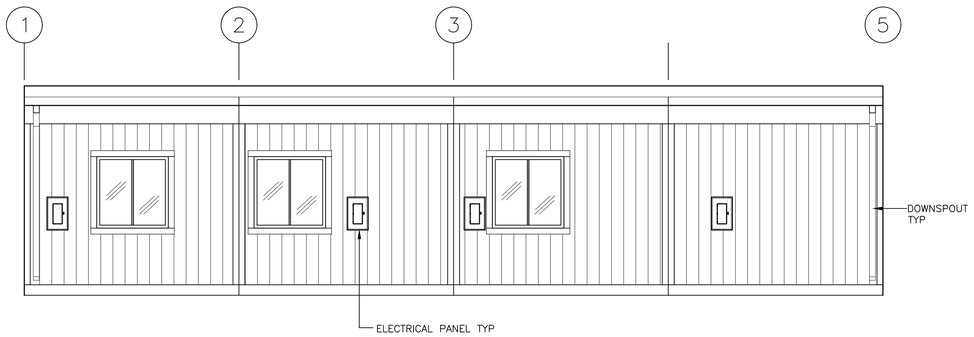
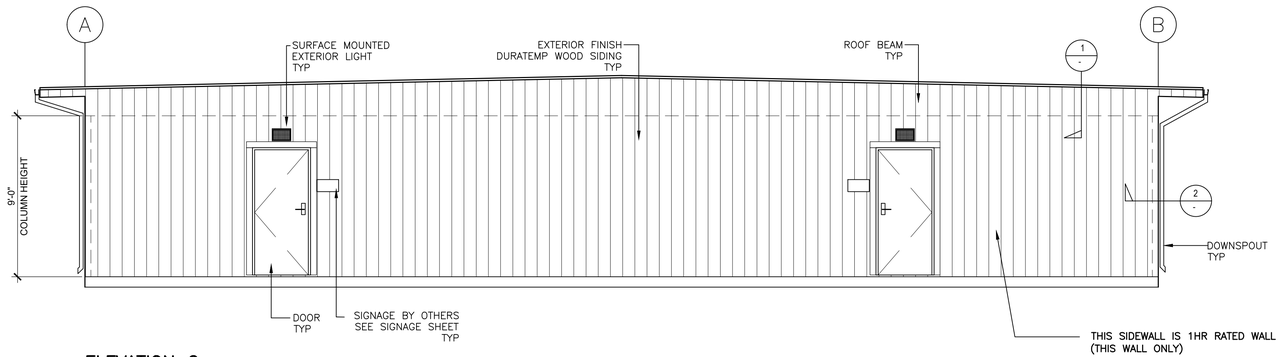


ELEVATION A



ELEVATION B



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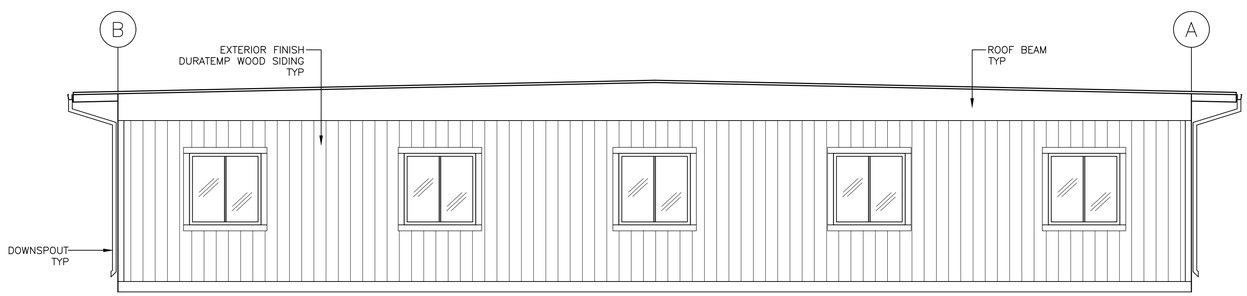

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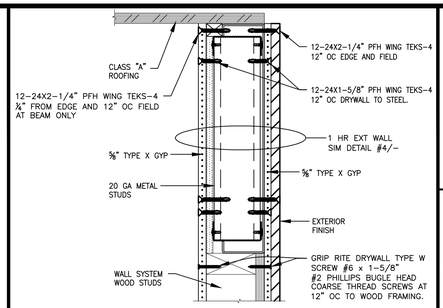
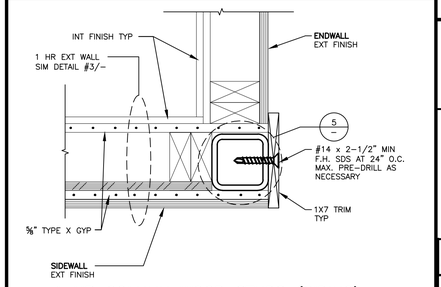


EXT 1 HR ROOF BEAM

SCALE: 3"=1'-0"

1



1 HR COLUMN WOOD STUDS (SIDING)

SCALE: 3"=1'-0"

2

GA FILE NO WP 3614

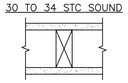
GYPSUM WALLBOARD, WOOD STUDS

ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF 2x4 WOOD STUDS 16" OC WITH 1 1/4" TYPE W DRYWALL SCREWS 12" OC

JOINTS STAGGERED 16" ON OPPOSITE SIDES (LOAD BEARING)

1-HOUR FIRE

30 TO 34 STC SOUND



THICKNESS:	4 3/4"
APPROX. WEIGHT:	7 PSF
FIRE TEST:	SWRI 01-4511-619[1], 3-94
SOUND TEST:	SEE WP 3520 (G&H NG-246FT, 7-2-65)

1 HOUR INTERIOR PARTITION-WOOD STUD

SCALE: NTS

3

GA FILE NO. WP 1072

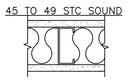
GYPSUM WALLBOARD, STEEL STUDS

ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD OR VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF 3 5/8"x20 GA STEEL STUDS 16" OC WITH 1" TYPE S DRYWALL SCREWS 8" OC AT VERTICAL JOINTS AND 12" OC AT FLOOR AND CEILING RUNNERS AND INTERMEDIATE STUDS

JOINTS STAGGERED 24" ON EACH SIDE AND ON OPPOSITE SIDES SOUND TESTED WITH 3 1/2" GLASS FIBER FRICTION FIT IN STUD SPACE (NLB)

1-HOUR FIRE

45 TO 49 STC SOUND



THICKNESS:	4 7/8"
APPROX. WEIGHT:	6 PSF
FIRE TEST:	SEE WP 1350 (FM WP-45, 6-19-68; OSU T-1770, 8-61; ULC 79T484, 79T500, 79T497, 8-12-81, ULC DESIGN W415)
SOUND TEST:	NRCC 816-NV, 2-3-81

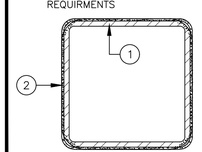
1 HOUR INTERIOR PARTITION-STEEL STUD

SCALE: NTS

4

NOTES:

1. COLUMN SHALL BE FREE OF DIRT, LOOSE SCALE AND OIL. COLUMN SHALL BE PRIMED WITH 0.003 INCHES DRY FILM THICKNESS OF MODIFIED ALKYD, EPOXY, ORGANIC ZINC OR INORGANIC ZINC BASED PRIMER.
2. MASTIC COATINGS – COATING SPRAY, BRUSH OR TROWEL APPLIED DIRECTLY FROM CONTAINERS TO DESIRED THICKNESS. SEE TABLE BELOW
3. REFER TO SHEET A0.1 FOR SPECIAL INSPECTION REQUIRMENTS



HSS: 4 x 4 x 3/8	
0.073 INCHES	
24 HRS	
86° F	
SHORE D: 70 (CURED)	

FIRE RATED COLUMN – INTUMESCENT

5

GLOBAL MODULAR incorporated
AURORA DESIGNS MODTECH Designs MODULAR STRUCTURES INTERNATIONAL INC DESIGNS
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
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PROJECT NAME:

48x60
VENTURA
FIRE DEPARTMENT
2289 ALESSANDRO DR, VENTURA, CA 93001

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:

EXTERIOR
ELEVATIONS

REVISIONS

1 -
2 -
3 -
4 -

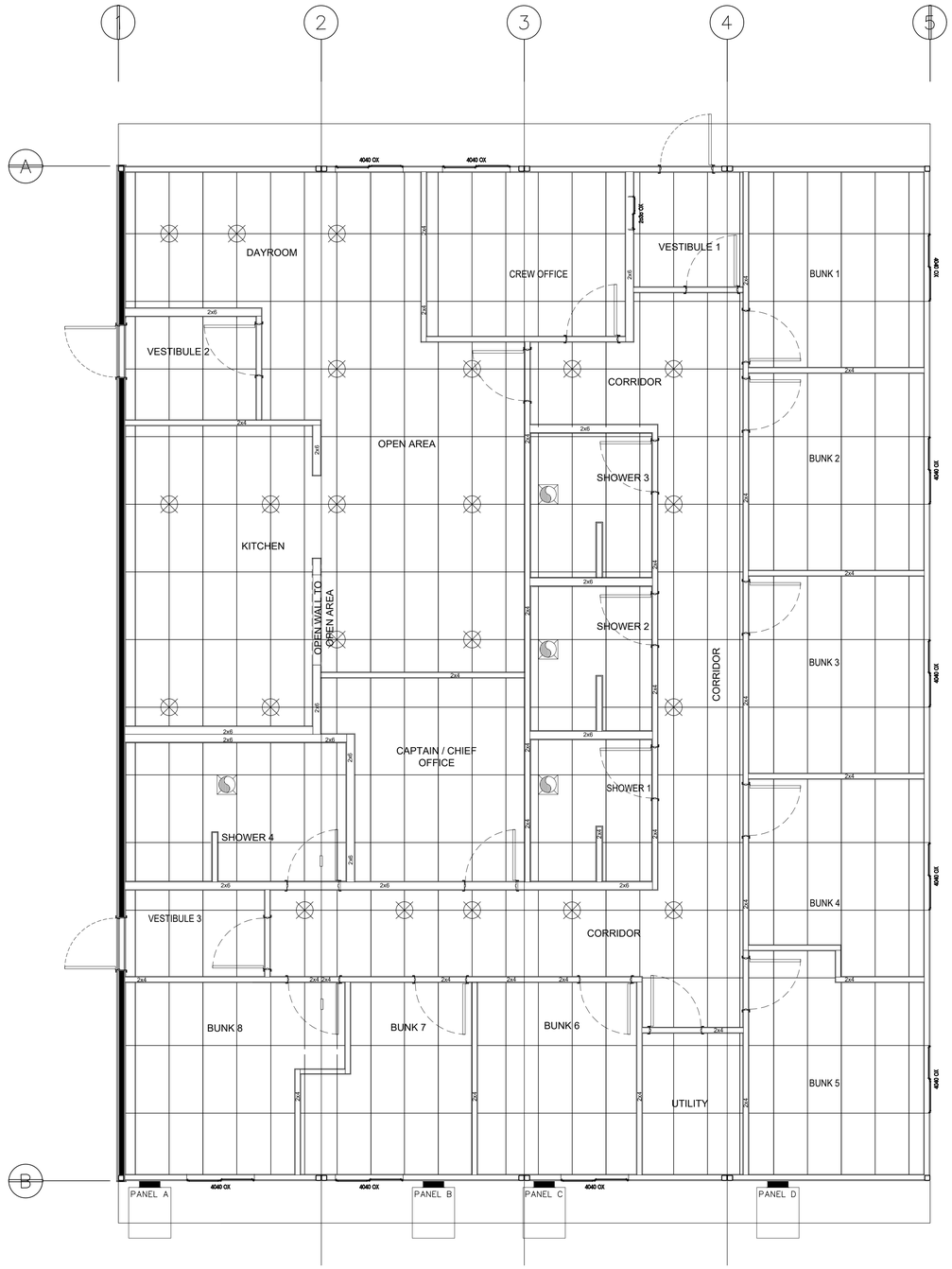
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

A5.4

SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY



AIR CONDITIONING PLAN VIEW

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

NOTES:

1. REFER TO SHEET M0.0 FOR DETAILS, LEGEND AND SCHEDULES.
2. BUILDING OVERHANG PROJECTION MUST BE A MINIMUM 36" LONG FOR ANY HVAC UNIT 13.00 SEER AND GREATER.

GLOBAL MODULAR Incorporated

AURORA DESIGNS | MODTECH Designs | MODULAR STRUCTURES INTERNATIONAL, INC DESIGNS

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PROJECT NAME:

48x60
VENTURA
FIRE DEPARTMENT
2269 ALESSANDRO DR, VENTURA, CA 93001

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:
MECHANICAL PLAN
WALL MOUNT

REVISIONS
1 -
1 -
1 -
1 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER
M1.3
SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

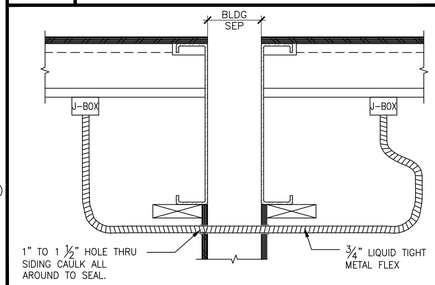
LIGHTING LEGEND & SYMBOLS

SYMBOL	DESCRIPTION
	2'x4' LED LOW PROFILE RECESSED TROFFER LIGHT FIXTURE WITH INTEGRAL EMERGENCY BATTERY WITH 90MIN BATTERY BACK UP PACK PS1055LCP. LITHONIA #2GTL4 4400LM LP840 4000K 120V, 34.1W, 0–10V DIMMING DRIVER SUITABLE FOR DAMP LOCATION
	2'x4' LED LOW PROFILE RECESSED TROFFER LIGHT FIXTURE LITHONIA #2GTL4 4400LM LP840 4000K 120V, 34.1W, 0–10V DIMMING DRIVER SUITABLE FOR DAMP LOCATION
	10"x48" LED LOW PROFILE CURVED BASKET WRAPAROUND SURFACE MOUNT LIGHT FIXTURE LITHONIA #LBL4 LP840 4000LM 5000K 120V, 32W, EL7L 700 NOMINAL LUMEN BATTERY PACK
	10"x48" LED LOW PROFILE CURVED BASKET WRAPAROUND SURFACE MOUNT LIGHT FIXTURE LITHONIA #LBL4 LP840 4000LM 5000K 120V, 32W
	2'x2' LED LOW PROFILE RECESSED TROFFER LIGHT FIXTURE WITH INTEGRAL EMERGENCY BATTERY WITH 90MIN BATTERY BACK UP PACK PS1055LCP LITHONIA #2GTL2 3300LM LP840 4000K 120V, 32.3W, 0–10V DIMMING DRIVER
	2'x2' LED LOW PROFILE RECESSED TROFFER LIGHT FIXTURE LITHONIA #2GTL2 3300LM LP840 4000K 120V, 32.3W, 0–10V DIMMING DRIVER
	2'x4' LED RECESSED WET LOCATION TROFFER LIGHT FIXTURE LITHONIA #WRTL F L48 5000LM OAW AFL MVOLT GZ1 40K 80CRI PS1050 EMERGENCY BATTERY PACK WH 120V, 38.7W, 53 LBS, WHEN HATCHED REPRESENTS BATTERY BACKUP UNIT.
	1'x4' LED RECESSED WET LOCATION TROFFER LIGHT FIXTURE LITHONIA #WRTL F L48 5000LM OAW AFL MVOLT GZ1 40K 80CRI PS1050 EMERGENCY BATTERY PACK WH 120V, 44W, 36 LBS, WHEN HATCHED REPRESENTS BATTERY BACKUP UNIT.
	2'x2' LED RECESSED WET LOCATION TROFFER LIGHT FIXTURE LITHONIA #WRTL F L48 5000LM OAW AFL MVOLT GZ1 40K 80CRI PS1050 EMERGENCY BATTERY PACK WH 120V, 38.7W, 36 LBS, WHEN HATCHED REPRESENTS BATTERY BACKUP UNIT.
	RECESSED DOWN LIGHT RECESSED TROFFER LIGHT FIXTURE 120V, 10W, DIMMABLE DOWN TO 10% OF FULL LIGHT
	AC ELECTRONICS AC106 37W 120/277V
	EXTERIOR WALL MOUNT LED WALLPACK FIXTURE WITH 90 MIN EMERGENCY BACK UP PS1055LCP
	SURFACE MOUNTED CEILING DOUBLE FACE EXIT SIGN (UNIVERSAL ARROWS INDICATED AS NEEDED)
	SURFACE MOUNTED CEILING SINGLE FACE EXIT SIGN (UNIVERSAL ARROWS INDICATED AS NEEDED)
EXIT	EXIT WITH 90 MIN BATTERY BACKUP LITHONIA LHQM–LED–R–HO RO 4.3 WATTS UL DAMP LOCATION LISTED +6" ABOVE FLOOR (AS APPLICABLE/ SECT. 1013.7)
EXIT	EXIT/ EMERGENCY WITH 90 MIN BATTERY BACKUP LITHONIA LHQM–LED–R–HO 4.3 WATTS UL DAMP LOCATION LISTED
	LITHONIA QUANTUM LED EMERGENCY LIGHT ELM2LF–FIXED OPTICS 4.8W. ADD WPVS ACCESORY FOR DAMP LOCATION

POWER LEGEND & SYMBOLS

SYMBOL	DESCRIPTION
$	DUPLEX RECEPTACLE–SPLIT WIRED,SWITCHED +15" AFF BOT OF BOX (U.N.O.)
$	QUADPLEX RECEPTACLE–SPLIT WIRED,SWITCHED +15" AFF BOT OF BOX (U.N.O.)
C	DUPLEX RECEPTACLE CELING MOUNTED
DED	DEDICATED DUPLEX RECEPTACLE +15" AFF BOT OF BOX (U.N.O.)
	DUPLEX RECEPTACLE +15" AFF BOT OF BOX (U.N.O.) R=RECESSED
	DUPLEX FLOOR RECEPTACLE OUTLET
	QUAD–PLEX RECEPTACLE +15" AFF BOT OF BOX (U.N.O.)
	QUAD–PLEX FLOOR RECEPTACLE OUTLET
GFCI	DUPLEX RECEPTACLE/ GFCI +15" AFF BOT OF BOX (U.N.O.)
	SINGLE CLOCK RECEPT +8'–0"
	EXHAUST FAN, 100 CFM (156 WATTS) MIN FOR SINGLE OCCUPANT
	EXHAUST FAN, 350 CFM (180 WATTS) MIN FOR MULTIPLE OCCUPANTS
$	TAMPER–RESISTANT KEY TOGGLE SWITCH LEVITON M1221–L
$	DECORA SINGLE SWITCH +48" AFF TOP OF BOX (U.N.O.)
$3	DECORA 3–WAY SWITCH +48" AFF TOP OF BOX (U.N.O.) LEVITON 5623–2W 120/277V
$4	DECORA 4–WAY SWITCH +48" AFF TOP OF BOX (U.N.O.)
DIM2 $	OCCUPANCY SENSOR DIMMER SWITCH LEVITON OSD10–I0W +48" AFF TOP OF BOX (U.N.O.)
DIM $	DIMMER SWITCH +48" AFF TOP OF BOX (U.N.O.) LEVITON DS710–10Z 120/277V
occ1 $	DECORA WALL SWITCH MULTI–TECHNOLOGY OCCUPANCY SENSOR LEVITON OSSMT 3X3 OSSMT–GDW
occ2 $	DECORA WALL SWITCH MULTI–TECHNOLOGY OCCUPANCY SENSOR LEVITON OSSMD
PP1	LEVITON POWER PACK OPP20–D2 120/230/277V
PP2	LEVITON POWER PACK OPP20–RD4 120/230/277V
TC	TIME CLOCK (EXTERIOR LIGHTS) +48" AFF TOP OF BOX (U.N.O.)
PC	PHOTO CONTROL SENSOR LEVITON ODCOP–DOW
OS	OCCUPANCY SENSOR CEILING MOUNTED (LIGHTING) ☐LEVITON OSC10–MOW ☐ LEVITON OSC20–MOW
OS	OCCUPANCY SENSOR (LIGHTING) WALL MOUNTED +48" AFF TOP OF BOX (U.N.O.) LEVITON ODS15–IDW

SYMBOL	DESCRIPTION
F	DISCONNECT SWITCH H.P. RATED 600 VOLTS RATED 'F' INDICATES FUSE TYPE. FUSES PER APPROVED MANUFACTURES DRAWINGS.
	PULL STATION J–BOX W/ 3/4"ø CONDUIT. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.
	EXT. HORN J–BOX W/ 3/4"ø CONDUIT AT +90" A.F.F.
	SINGLE PLEX RECEPTACLE OUTLET (20 AMPS, 125 VOLTS). INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.
WP	WEATHERPROOF DUPLEX RECEPTACLE OUTLET (20 AMPS, 125 VOLTS). INSTALL PER MOUNTING HEIGHT DETAIL.
	RECESSED CEILING MOUNTED DUPLEX RECEPTACLE OUTLET, CONVENIENCE (20 AMPS, 125 VOLTS)
	HORN/STROBE LIGHT + 80" AFF
S	SMOKE DETECTOR @ CEILING
H	HEAT DETECTOR IN ATTIC SPACE
J	WATER PROOF JUNCTION BOX WITH COVER
J	JUNCTION BOX
M	OCCUPANCY MOTION SENSOR, FLUSH CEILING MOUNTED ☐LEVITON OSC10–MOW ☐ LEVITON OSC20–MOW
	BRANCH PANEL BOARD, WALL MOUNTED, SEE PLANS AND SCHEDULE (SURFACE MOUNTED)
	BRANCH PANEL BOARD, WALL MOUNTED, SEE PLANS AND SCHEDULE (RECESSED MOUNTED)
	MANUAL DIMMING WITH COMBINED BUILT–IN OCCUPANCY SENSOR: LUTRON 'MAESTRO' MS–Z101. THIS IS SWITCH IS APPLICABLE FOR DIMMING LED BULB, CFL BULB, INCANDESCENT AND DIMMABLE FLUORESCENT BALLAST WITH MAX 20 FT RANGE FROM WALL. REFER TO CATALOG CUT SHEET FOR ADDITIONAL INFORMATION. INSTALL PER MOUNTING HEIGHT DETAIL UNO
*	DIMMING OCCUPANCY SENSOR: LUTRON 'MAESTRO' MS–Z101. THIS IS SWITCH IS APPLICABLE FOR DIMMING LED BULB, CFL BULB, INCANDESCENT AND DIMMABLE FLUORESCENT BALLAST. REFER TO CATALOG CUT SHEET FOR ADDITIONAL INFORMATION. INSTALL PER MOUNTING HEIGHT DETAIL UNO



CONDUIT CONNECTION AT BLDG SEPARATION

SCALE: 1 1/2"=1'–0"

5

LOW VOLTAGE LEGEND & SYMBOLS

SYMBOL	DESCRIPTION
J	JUNCTION BOX
S	OUTDOOR WEATHER PROOF SPEAKER
	FLOOR DATA BOX W/ POWER OUTLET
TV	TV OUTLET. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.
IC	INTERCOM OUTLET. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.
	SECURITY SYSTEM DOOR SWITCH, MOUNTED AT TOP OF DOOR JAMB
SP	CEILING MOUNTED SPEAKER
	HOME RUN TO DESTINATION AS INDICATED. REFER TO CONDUIT SYMBOL ABOVE
	FLOOR DATA BOX
	DATA OUTLET +15" AFF BOT OF BOX (U.N.O.)
	WALL PHONE OUTLET +48 TOP OF BOX (U.N.O.)
	DATA/VOICE OUTLET +15" AFF BOT OF BOX (U.N.O.)
	CEILING MOUNTED DATA BOX

NOTE: SEE DETAIL 2 FOR MOUNTING HEIGHTS

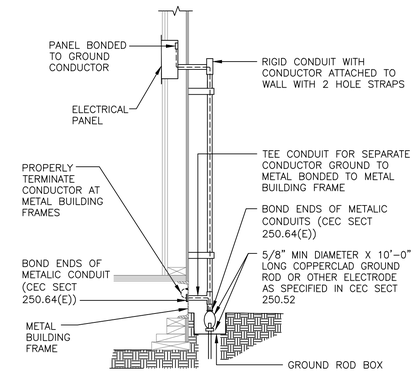
FIRE ALARM NOTES

1. FIRE ALARM SYSTEM SHALL COMPLY WITH CBC CHAPTER 9 SECTION 907.2.3 & TITLE 24, PART 3, ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE,
2. INSTALLATION OF FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAIL PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER IN GENERAL CHARGE OF DESIGN. THE SIGNATURE OF THE ARCHITECT OR PROFESSIONAL ENGINEER WHO HAS BEEN DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION, MUST BE APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND STATE FIRE MARSHALL, PER CFC SECTION 907.1.2 & DSA GUIDELINES GL–2
3. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A "RED" LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT THE FIRE PANEL/EXTENDERS, NFPA 72 SECTION 10.6.5.2, 10.6.5.2.2, 10.6.5.2.3, 10.6.5.2.4 & 10.6.5.4
4. UPON COMPLETION OF THE INSTALLATION OF THE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY.
5. ALARMS, SECTION 907, CALIFORNIA FIRE CODE. IF EMERGENCY WARNING SYSTEMS ARE REQUIRED, THEY SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE. LOCATE PER CFC 907.5.2.3 & NFPA 72
6. EMERGENCY VOICE COMMUNICATION PER CBC 907.2.3

GENERAL NOTES

1. ALL FIRE ALARM SHOULD BE HOMERUN TO SINGLE POINT OF CONNECTION W/ 3/4" CO (UNO)
2. ALL LOW VOLTAGE CONDUIT RUNS ARE STUBBED FROM OUTLET BOX TO ATTIC SPACE (UNO). USE 1"ø CO FOR ALL OUTLET STUBS (UNO)
3. ALL WIRING & DEVICES FOR LOW VOLTAGE SYSTEMS INCLUDING BUT NOT LIMITED TO FIRE ALARM SYSTEMS ARE BY OTHERS
4. VERIFY ALL FIRE ALARM DEVICE LOCATION W/ AOR'S ELECTRICAL DWG'S FOR PROJECT SPECIFIC DESIGN
5. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND SCOPE OF WORK. MAINTAIN HEADROOM AND MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIMES
6. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL OUTLET BOXES FOR SWITCHES, BELL/STROBES, FIRE ALARM PULL STATIONS, RECEPTACLES ETC WITH CABINETS, FURNITURE, EQUIPMENT ETC, TO AVOID CONFLICT
7. SEE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATION FOR ADDITIONAL CONNECTION REQUIREMENTS TO CONTROL PANELS, CONTROL TRANSFORMERS, POWER FOR CONTROL SYSTEM EP AND PE SWITCHES, TIME CLOCKS, VALVES, T–STATS, RELAYS, DUCT SMOKE DETECTOR LOCATIONS, ETC. INDICATED ON CONTROL WIRING DIAGRAMS. ELECTRICAL CONTRACTOR SHALL VERIFY FINAL CONTROL WIRING REQUIREMENTS PRIOR TO ANY WORK AND PROVIDE ALL NECESSARY DEVICES AND CONNECTIONS AS REQUIRED
8. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT INCLUDING THOSE THAT ARE EXPOSED TO OUTSIDE ENVIRONMENT (UP TO 16') SHALL BE WEATHERPROOF TYPE, NEMA 3R
9. ALL ELECTRICAL POWER, LIGHTING, TELEPHONE OR SIGNAL WIRING IN FIRE RATED WALL IS TO BE INSTALLED IN A METALLIC CONDUIT SYSTEM
10. ALL ELECTRIC MATERIAL SHALL BE LISTED BY "UL" FOR THE TYPE OF APPLICATION AND "UL" LABEL SHALL APPEAR ON ALL ELECTRICAL EQUIPMENT.
11. ALL DISTRIBUTION AND CONTROL EQUIPMENT (SUCH AS CB's, SWITCHES, CONTRACTORS, ETC), TERMINATIONS SHALL BE FULLY RATED PER UL AS FOLLOWS:
    a. 125A OR LESS : 60°C OR MORE
    b. MORE THAN 125A : 75°C OR MORE
12. REFER TO ENERGY CODE TABLE 140.6–A FOR LIGHTING CONTROL TYPES
13. UPON SITE PLACEMENT OR SITE CONSTRUCTION. THE OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL MECHANICAL AND LIGHTING SYSTEMS AND CONTROLS SHALL BE PROVIDED BY THE MODULAR BUILDING MANUFACTURER, OR THE GENERAL CONTRACTOR FOR THE PERMANENT MODULAR RELOCATABLE BUILDING AND DELIVERED TO THE OWNER.
14. ACCEPTANCE TESTS BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF LIGHTING CONTROLS BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY CODE SECTION 10–103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND THE DISTRICT.A

* FOR EACH PROJECT SPECIFIC, VERIFY IF DIMMABLE BALLAST ARE APPLICABLE PER THE USE OF LIGHT FOR EACH OCCUPANCY OR ROOM. SWITCH SHALL REQUIRE A DIMMING FEATURE



(REFER TO CEC SECTION 250 FOR THE ITEMS BELOW AND DSA IR E–1)

NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (CEC 250.52). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT OR MORE, IF AVAILABLE (CEC 250.52), EXCEPT FIRE SPRINKLER SYSTEM PIPING.
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER. (BOLTING ONLY IS NOT ACCEPTABLE BONDING).
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND ROD GREATER THAN SIX FEET AWAY (CEC 250.53 (A) & (B). ONCE THE SECOND GROUND ROD IS INSTALLED, ADDITIONAL GROUND RESISTANCE TESTING IS NOT REQUIRED.
5. WHERE MODULAR BUILDING ARE GROUPED TOGETHER, A GROUND ROD MAY BE INSTALLED AT THE END BUILDINGS AND A GROUND RING MAY BE INSTALLED BETWEEN THEM. EACH INTERMEDIATE MODULAR BUILDING MAY BE BONDED TO THAT GROUND RING. WHERE THIS METHOD IS USED, GROUND RESISTANCE TESTING SHALL NOT BE REQUIRED
6. WHERE MODULAR BUILDINGS ARE INSTALLED ON CONCRETE FOUNDATIONS, A UFER GROUND SHALL BE INSTALLED IN THE FOOTING PER [CEC 250.52 (A) (3)]
7. OTHER GROUNDING METHODS IDENTIFIED IN CEC 250 SHALL BE ACCEPTABLE MEANS TO ACHIEVE ADEQUATE GROUNDING OF METAL BUILDINGS IN COMPLIANCE WITH THE ABOVE

ACCEPTABLE GROUNDING DETAIL

NOT BY BUILDING MANUFACTURER

1

PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR incorporated

AURORA DESIGNS · MODTECH Designs · MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

CONTRACTORS LICENSE #837357

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PROJECT NAME:

SHEET TITLE:

ELECTRICAL DETAILS

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS

1	-
2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

E0.0

SPEC NO. 2025-010 DWG. NO. 2025-D-010

NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THRU 1617A.1.26 AND ASCE 7–16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAT 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7–16 SECTION 13.3 AS DEFINED IN ASCE 7–16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHAMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED TO THE RIGHT. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E■– OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS

MP☐ MD☐ PP☐ E☐– OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE–APPROVAL (OPM #) #_____.

LOW VOLTAGE LEGEND & SYMBOLS

CAM	J BOX FOR CAMERA W/SINGLE DEVICE COVER W/ BLANK PLATE 4SQ BOX W/3/4" CONDUIT TO ATTIC W/PULLSTRING
4	CAT6E CABLE WALL BOX & PLATE WITH RJ45 JACK–(4) PORTS
2	CAT6E CABLE WALL BOX & PLATE WITH RJ45 JACK–(2) PORTS
	IT EQUIPMENT & TELECOM CENTER,USDD ATX & FIRE ALARM PANEL
WAP	CAT6E CABLE AND RJ45 PLUG FOR CEILING MOUNTED WIRELESS ACCESS POINT
RR2 CIR	ROOM REMOTE/COLOR REMOTE (USDD)
MSS	MESSAGE SIGN BOARD (USDD)
TVR	HDTV REMOTE (USDD)
PB RED PB BLACK	BELL (USDD)
S	LED ALERTING SPEAKER (USDD DISPATCH ALERTING)

LIGHTING CONTROL SYSTEM SEQUENCE OF OPERATIONS

THE LIGHTING CONTROL SYSTEM BASIS OF DESIGN SHALL BE THE LUTRON VIVE WIRELESS LIGHTING CONTROL SYSTEM. THE SYSTEM SHALL BE CAPABLE OF PROVIDING MANUAL CONTROL, OCCUPANCY SENSING CONTROL AND DAYLIGHT HARVESTING CONTROL.

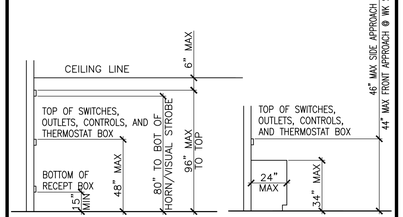
SEQUENCE:

OCCUPANT ENTERS:
ALL LIGHTS AUTOMATICALLY TURN ON TO 50% LIGHT LEVEL. OCCUPANT MAY INCREASE LIGHTS TO MAXIMUM LEVEL MANUALLY WITH WALL CONTROL.

WHEN OCCUPIED:
LIGHTING IN DAYLIT ZONES AUTOMATICALLY DIM/BRIGHTEN BASED ON DAYLIGHT AVAILABILITY.
OCCUPANT MAY MANUALLY DIM/BRIGHTEN THE LIGHTS WITH WALL CONTROL.

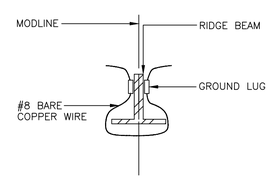
OCCUPANT EXITS:

ALL LIGHTS AUTOMATICALLY TURN OFF 15 MINUTES AFTER VACANCY.



MOUNTING HEIGHT DETAIL

2



MODULE BONDING

3

FOR REFERENCE ONLY

PANEL SCHEDULE

PANEL A

MAIN BREAKER 200A

Rated Amps: 200 A | Volts: 120/208
Interior: | Phase / Wire: 3 PHASE/4 WIRE
Exterior: X | Flush:
NEMA Rated: NEMA 3R | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
			1 2	2	5000	RANGE/OVEN
			3 4	50	5000	RANGE/OVEN
			5 6	1 20	300	HOOD/FAN
			7 8	1 20	360	RECEPT for TV
RECEPTS	1260	1 20	9 10	1 20	780	REFRIGERATOR
RECEPTS	900	1 20	11 12	1 20	780	REFRIGERATOR
RECEPTS	900	1 20	13 14	1 20	780	REFRIGERATOR
RECEPTS	1080	1 20	15 16	1 20	840	DISPOSER
RECEPTS	1440	1 20	17 18			
			19 20			
			21 22	1 20	180	FIRE ALARM
			23 24	1 20	2200	DISHWASHER

15,360 Watts + 17,460 Watts + 13,940 Watts + 11,690 25% Watts ÷ 360 Voltage = 162 A Amps Per Phase

PANEL B

MAIN BREAKER 125A

Rated Amps: 125A | Volts: 120/208
Interior: | Phase / Wire: 3 PHASE/4 WIRE
Exterior: X | Flush:
NEMA Rated: NEMA 3R | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
			1 2	1 20	540	EXT. RECEPT/GFCI/WP
			3 4			
			5 6	1 20	360	RECEPT for TV
RECEPT	900	1 20	7 8			
RECEPT	900	1 20	9 10			
RECEPT	900	1 20	11 12			
			13 14			
INT/EXT/EXIT LIGHTS EXH FAN	766	1 20	15 16			
			17 18			
			19 20			
			21 22			
			23 24			

1,440 Watts + 1,666 Watts + 1,260 Watts + 1,092 25% Watts ÷ 360 Voltage = 15 A Amps Per Phase

PANEL C

MAIN BREAKER 125A

Rated Amps: 125A | Volts: 120/208
Interior: | Phase / Wire: 3 PHASE/4 WIRE
Exterior: X | Flush:
NEMA Rated: NEMA 3R | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
			1 2	1 20	1440	WASHER
			3 4	2	2375	DRYER
			5 6	30	2375	DRYER
RECEPT	900	1 20	7 8	1 20	1100	INT/EXT/EXIT LIGHTS EXH FAN
RECEPT	540	1 20	9 10			
RECEPT	000	1 20	11 12	1 20	142	RECEPT for TV
			13 14			
			15 16			
			17 18			
			19 20			
			21 22			
			23 24			

11,940 Watts + 11,955 Watts + 10,837 Watts + 8,683 25% Watts ÷ 360 Voltage = 121 A Amps Per Phase

PANEL D

MAIN BREAKER 125A

Rated Amps: 125A | Volts: 120/208
Interior: | Phase / Wire: 3 PHASE/4 WIRE
Exterior: X | Flush:
NEMA Rated: NEMA 3R | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
			1 2	1 20	720	RECEPT
			3 4	1 20	720	RECEPT
			5 6			
RECEPT	900	1 20	7 8	1 20	540	RECEPT
RECEPT	720	1 20	9 10			
RECEPTS/GFCI	900	1 20	11 12			
			13 14			
			15 16			
			17 18			
			19 20			
			21 22			
			23 24			

10,480 Watts + 9,760 Watts + 9,220 Watts + 7,365 25% Watts ÷ 360 Voltage = 102 A Amps Per Phase

(L) LABEL AND LOCK ON DEVICE

* CIRCUIT BREAKER TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

** DEDICATED CIRCUIT (RED, LOCKING) LABELED PER NFPA 72:10.6.5.2

CAM J BOX FOR CAMERA W/SINGLE DEVICE COVER W/ BLANK PLATE 4SQ BOX W/3/4" CONDUIT TO ATTIC W/ PULLSTRING

4 CAT6E CABLE WALL BOX & PLATE WITH RJ45 JACK-(4) PORTS

2 CAT6E CABLE WALL BOX & PLATE WITH RJ45 JACK-(2) PORTS

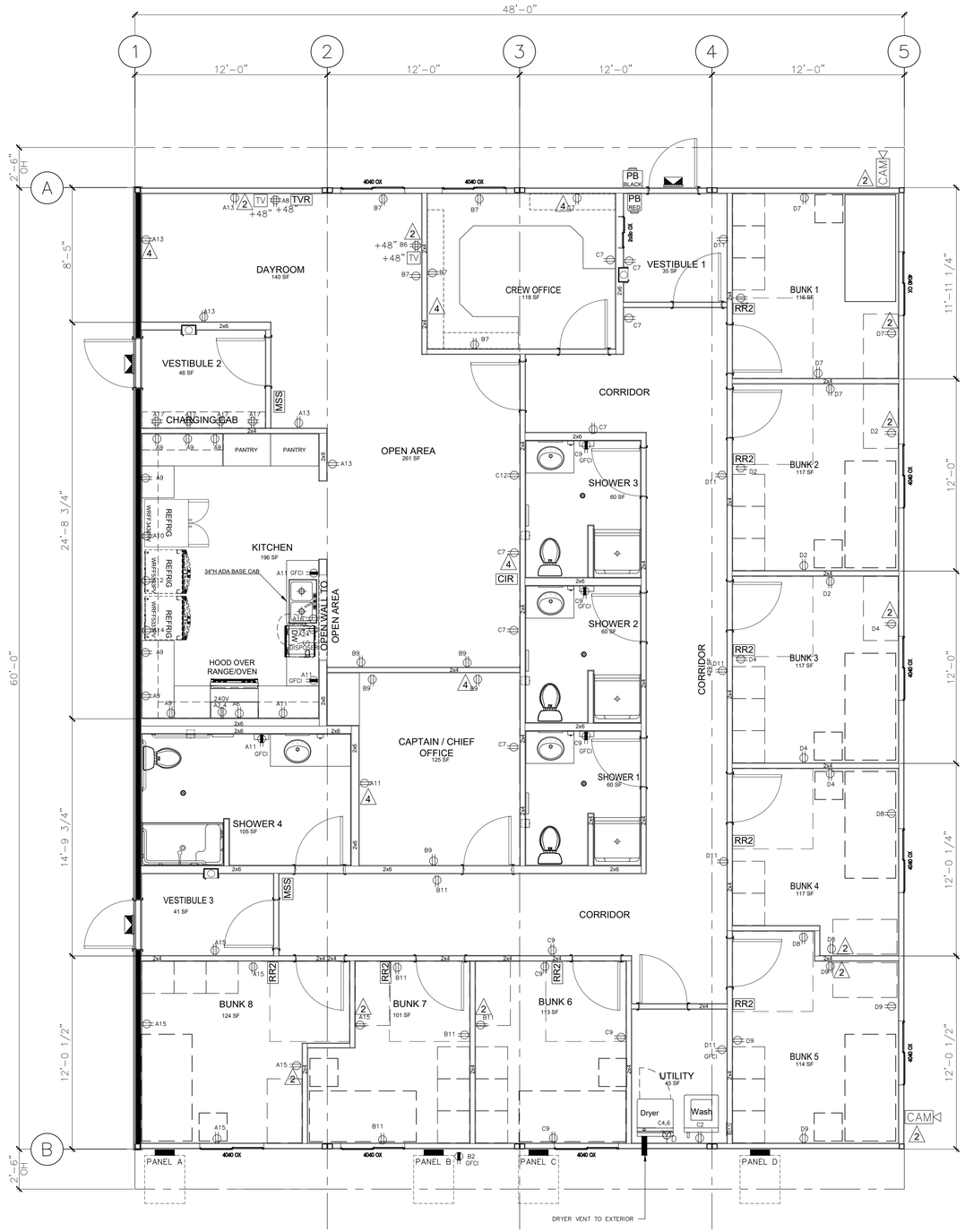
IT EQUIPMENT & TELECOM CENTER,USDD ATX & FIRE ALARM PANEL

RR2 CIR ROOM REMOTE/COLOR REMOTE (USDD)

MSS MESSAGE SIGN BOARD (USDD)

TVR HDTV REMOTE (USDD)

PB RED PB BLACK BELL (USDD)



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CONTRACTORS LICENSE #837357

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PROJECT NAME:

48x60
VENTURA
FIRE DEPARTMENT
2269 ALESSANDRO DR, VENTURA, CA 93001

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026
CITY ENGINEER — DATE: 5/7/2026
ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:
ELECTRICAL PLAN
POWER

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER
E1.0
SPEC NO. 2025-010 DWG. NO. 2025-D-010

PANEL SCHEDULE

PANEL A

MAIN BREAKER 200A

Rated Amps: 200 A | Volts: 120/208
Interior: | Phase / Wire: 3 PHASE/4 WIRE
Exterior: X | Flush:
NEMA Rated: NEMA 3R | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
			1 2	2	5000	RANGE/OVEN
			3 4	50	5000	RANGE/OVEN
			5 6	1 20	300	HOOD/FAN
			7 8	1 20	360	RECEPT for TV
RECEPTS	1260	1 20	9 10	1 20	780	REFRIGERATOR
RECEPTS	900	1 20	11 12	1 20	780	REFRIGERATOR
RECEPTS	900	1 20	13 14	1 20	780	REFRIGERATOR
RECEPTS	1080	1 20	15 16	1 20	840	DISPOSER
RECEPTS	1440	1 20	17 18			
			19 20			
			21 22	1 20	180	FIRE ALARM
			23 24	1 20	2200	DISHWASHER

15,360 Watts + 17,460 Watts + 13,940 Watts + 11,690 25% Watts ÷ 360 Voltage = 162 A Amps Per Phase

PANEL B

MAIN BREAKER 125A

Rated Amps: 125A | Volts: 120/208
Interior: | Phase / Wire: 3 PHASE/4 WIRE
Exterior: X | Flush:
NEMA Rated: NEMA 3R | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
			1 2	1 20	540	EXT. RECEPT/GFCI/WP
			3 4			
			5 6	1 20	360	RECEPT for TV
RECEPT	900	1 20	7 8			
RECEPT	900	1 20	9 10			
RECEPT	900	1 20	11 12			
			13 14			
INT/EXT/EXIT LIGHTS EXH FAN	766	1 20	15 16			
			17 18			
			19 20			
			21 22			
			23 24			

1,440 Watts + 1,666 Watts + 1,260 Watts + 1,092 25% Watts ÷ 360 Voltage = 15 A Amps Per Phase

PANEL C

MAIN BREAKER 125A

Rated Amps: 125A | Volts: 120/208
Interior: | Phase / Wire: 3 PHASE/4 WIRE
Exterior: X | Flush:
NEMA Rated: NEMA 3R | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
			1 2	1 20	1440	WASHER
			3 4	2	2375	DRYER
			5 6	30	2375	DRYER
RECEPT	900	1 20	7 8	1 20	1100	INT/EXT/EXIT LIGHTS EXH FAN
RECEPT	540	1 20	9 10			
RECEPT	000	1 20	11 12	1 20	142	RECEPT for TV
			13 14			
			15 16			
			17 18			
			19 20			
			21 22			
			23 24			

11,940 Watts + 11,955 Watts + 10,837 Watts + 8,683 25% Watts ÷ 360 Voltage = 121 A Amps Per Phase

PANEL D

MAIN BREAKER 125A

Rated Amps: 125A | Volts: 120/208
Interior: | Phase / Wire: 3 PHASE/4 WIRE
Exterior: X | Flush:
NEMA Rated: NEMA 3R | Surface: X

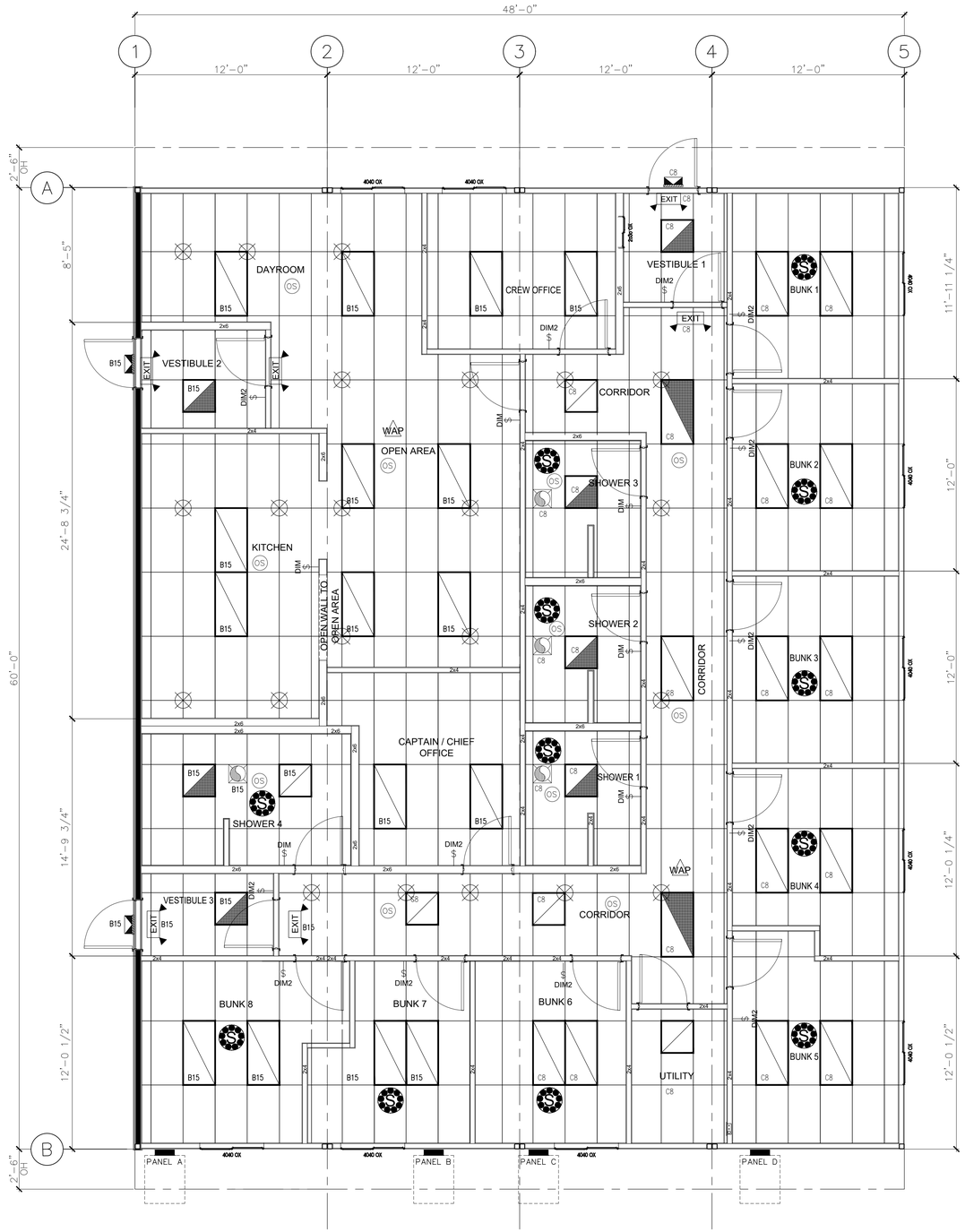
Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
			1 2	1 20	720	RECEPT
			3 4	1 20	720	RECEPT
			5 6			
RECEPT	900	1 20	7 8	1 20	540	RECEPT
RECEPT	720	1 20	9 10			
RECEPTS/GFCI	900	1 20	11 12			
			13 14			
			15 16			
			17 18			
			19 20			
			21 22			
			23 24			

10,480 Watts + 9,760 Watts + 9,220 Watts + 7,365 25% Watts ÷ 360 Voltage = 102 A Amps Per Phase

(L) LABEL AND LOCK ON DEVICE

* CIRCUIT BREAKER TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

** DEDICATED CIRCUIT (RED, LOCKING) LABELED PER NFPA 72:10.6.5.2



LED ALERTING SPEAKER (USDD DISPATCH ALERTING)

CAT6E CABLE AND RJ45 PLUG FOR CEILING MOUNTED WIRELESS ACCESS POINT

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PROJECT NAME:

48x60
VENTURA
FIRE DEPARTMENT
2269 ALESSANDRO DR, VENTURA, CA 93001

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026
CITY ENGINEER — DATE: 5/7/2026
ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:
ELECTRICAL PLAN
LIGHTING

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER
E2.0
SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

PANEL SCHEDULE

PANEL A

MAIN BREAKER 200A

Rated Amps: 200 A | Volts: 120/208
Interior: | Phase / Wire: 3 PHASE/4 WIRE
Exterior: X | Flush:
NEMA Rated: NEMA 3R | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
			1 2	2	5000	RANGE/OVEN
			3 4	50	5000	RANGE/OVEN
			5 6	1/20	300	HOOD/FAN
			7 8	1/20	360	RECEPT for TV
RECEPTS	1260	1/20	9 10	1/20	780	REFRIGERATOR
RECEPTS	900	1/20	11 12	1/20	780	REFRIGERATOR
RECEPTS	900	1/20	13 14	1/20	780	REFRIGERATOR
RECEPTS	1080	1/20	15 16	1/20	840	DISPOSER
RECEPTS	1440	1/20	17 18			
			19 20			
			21 22	1/20	180	FIRE ALARM
			23 24	1/20	2200	DISHWASHER

15,360 Watts + 17,460 Watts + 13,940 Watts + 11,690 25% Watts ÷ 360 Voltage = 162 A Amps Per Phase

PANEL B

MAIN BREAKER 125A

Rated Amps: 125A | Volts: 120/208
Interior: | Phase / Wire: 3 PHASE/4 WIRE
Exterior: X | Flush:
NEMA Rated: NEMA 3R | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
			1 2	1/20	540	EXT. RECEPT/GFCI/WP
			3 4			
			5 6	1/20	360	RECEPT for TV
RECEPT	900	1/20	7 8			
RECEPT	900	1/20	9 10			
RECEPT	900	1/20	11 12			
			13 14			
INT/EXT/EXIT LIGHTS EXH FAN	766	1/20	15 16			
			17 18			
			19 20			
			21 22			
			23 24			

1,440 Watts + 1,666 Watts + 1,260 Watts + 1,092 25% Watts ÷ 360 Voltage = 15 A Amps Per Phase

PANEL C

MAIN BREAKER 125A

Rated Amps: 125A | Volts: 120/208
Interior: | Phase / Wire: 3 PHASE/4 WIRE
Exterior: X | Flush:
NEMA Rated: NEMA 3R | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
			1 2	1/20	1440	WASHER
			3 4	2	2375	DRYER
			5 6	30	2375	DRYER
RECEPT	900	1/20	7 8	1/20	1100	INT/EXT/EXIT LIGHTS EXH FAN
RECEPT	540	1/20	9 10			
RECEPT	000	1/20	11 12	1/20	142	RECEPT for TV
			13 14			
			15 16			
			17 18			
			19 20			
			21 22			
			23 24			

11,940 Watts + 11,955 Watts + 10,837 Watts + 8,683 25% Watts ÷ 360 Voltage = 121 A Amps Per Phase

PANEL D

MAIN BREAKER 125A

Rated Amps: 125A | Volts: 120/208
Interior: | Phase / Wire: 3 PHASE/4 WIRE
Exterior: X | Flush:
NEMA Rated: NEMA 3R | Surface: X

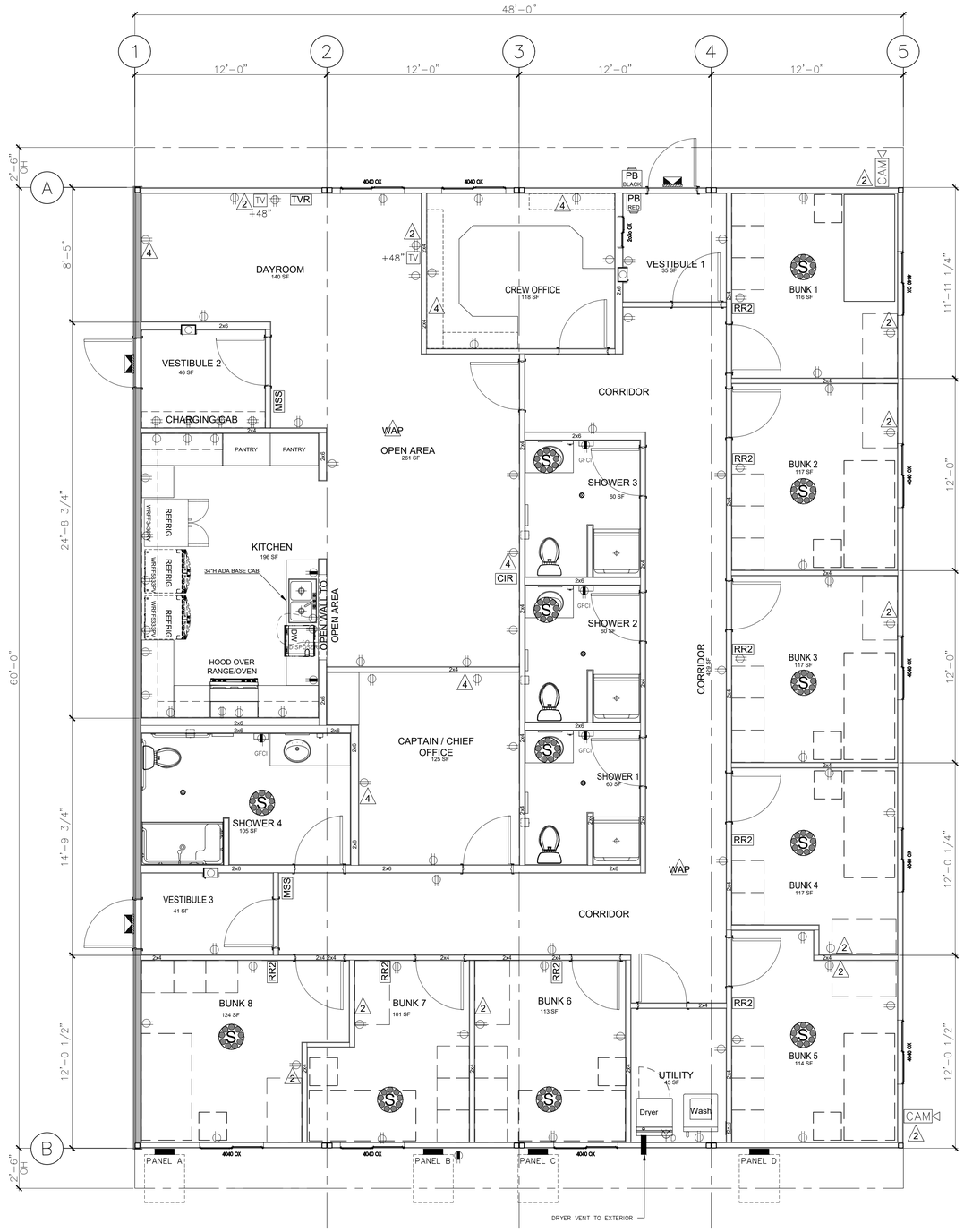
Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
			1 2	1/20	720	RECEPT
			3 4	1/20	720	RECEPT
			5 6			
RECEPT	900	1/20	7 8	1/20	540	RECEPT
RECEPT	720	1/20	9 10			
RECEPTS/GFCI	900	1/20	11 12			
			13 14			
			15 16			
			17 18			
			19 20			
			21 22			
			23 24			

10,480 Watts + 9,760 Watts + 9,220 Watts + 7,365 25% Watts ÷ 360 Voltage = 102 A Amps Per Phase

(L) LABEL AND LOCK ON DEVICE

* CIRCUIT BREAKER TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

** DEDICATED CIRCUIT (RED, LOCKING) LABELED PER NFPA 72:10.6.5.2



CAM J BOX FOR CAMERA W/SINGLE DEVICE COVER W/ BLANK PLATE 4SQ BOX W/3/4" CONDUIT TO ATTIC W/ PULLSTRING

4 CAT6E CABLE WALL BOX & PLATE WITH RJ45 JACK-(4) PORTS

2 CAT6E CABLE WALL BOX & PLATE WITH RJ45 JACK-(2) PORTS

IT EQUIPMENT & TELECOM CENTER,USDD ATX & FIRE ALARM PANEL

RR2 CIR ROOM REMOTE/COLOR REMOTE (USDD)

MSS MESSAGE SIGN BOARD (USDD)

TVR HDTV REMOTE (USDD)

PB RED PB BLACK BELL (USDD)

S LED ALERTING SPEAKER (USDD DISPATCH ALERTING)

WAP CAT6E CABLE AND RJ45 PLUG FOR CEILING MOUNTED WIRELESS ACCESS POINT

GLOBAL MODULAR incorporated

AURORA DESIGNS | MODTECH Designs | MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

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48x60
VENTURA
FIRE DEPARTMENT
2269 ALESSANDRO DR, VENTURA, CA 93001

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE 5 May 2026

CITY ENGINEER — DATE 5/7/2026

ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:

ELECTRICAL PLAN
LOW VOLTAGE

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

E3.0

SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

PLUMBING GENERAL NOTES

1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCING WORK.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS AND PLUMBING ROUGH-IN LOCATIONS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO ALL HANDICAPPED FIXTURES. OBTAIN EXACT FLOOR DRAIN AND FLOOR SINK LOCATIONS FROM FOOD SERVICE DRAWINGS. ROUGH-IN LOCATIONS FOR KITCHENS, BARS, ETC. TO BE TAKEN FROM APPROVED FOOD SERVICE SHOP DRAWINGS.
3. ITEM DESIGNATIONS INDICATED ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY WITH THE OWNER ACTUAL DESIGNATION INFORMATION TO BE PROVIDED FOR EACH ITEM OF PLUMBING EQUIPMENT PRIOR TO NAMEPLATE ORDER RELEASE.
4. THE PLUMBING DETAILS SHALL BE INCORPORATED INTO THE ASSOCIATED WORK AND PROVIDE GENERAL GUIDANCE AS TO THE INSTALLATION INTENT WHETHER REFERENCED TO OR NOT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION AND ENSURE THAT ALL INSTALLATIONS ARE IN ACCORDANCE WITH THE EQUIPMENT'S LISTING AND MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTION.
5. SEISMIC RESTRAINTS SHALL BE PROVIDED PER THE LATEST ADOPTED STANDARD BUILDING CODE AND THE SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE PROPOSED RESTRAINTS, STRUCTURAL ATTACHMENT METHODS AND RESTRAINT LOCATIONS TO THE ARCHITECT FOR REVIEW. THE SUBMITTED DOCUMENTS SHALL BE PREPARED AND STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT STATE.
6. COORDINATE SPRINKLER DRAIN REQUIREMENTS AND LOCATIONS WITH THE FIRE PROTECTION DIVISION OF WORK.
7. REFER TO CIVIL DRAWINGS FOR INVERT AT SITE UTILITY POINTS OF CONNECTION. PROVIDE OFFSET AND INCREASER FOR STORM DRAIN OR SEWER AS REQUIRED FOR CONNECTION TO CIVIL.
8. PROVIDE TRAP PRIMERS FOR AREAS OF INFREQUENT USE, INCLUDING FLOOR DRAINS IN RESTROOMS AND MECHANICAL ROOMS. EQUAL TO PRECISION PRODUCTS CO. "PRIME-RITE" WITH DISTRIBUTION UNITS FOR MULTIPLE FLOOR DRAINS AND FLOOR SINKS. TRAP PRIMER SHALL BE ACCESSIBLE AND INSTALLED PER MANUFACTURER'S REQUIREMENTS. PROVIDE LINE SIZE SHUT-OFF VALVE AHEAD OF EACH TRAP PRIMER AND PRIMER LINE SHALL BE INSTALLED ON A COLD WATER LINE LESS THAN 2" DIAMETER. ALL ELECTRONIC TYPE TRAP PRIMERS SHALL BE PPP "PRIME-TIME ELECTRONIC TRAP PRIMING MANIFOLD" WITH FOUR (4) TO 30 OUTLETS, VACUUM BREAKER, 24 HOUR CLOCK, MANUAL OVERRIDE, SOLENOID VALVE, CALIBRATED MANIFOLD WITH 1/2" OUTLET COMPRESSION FITTINGS, PROVIDE 3/4" SHUT-OFF VALVE ON INLET. (ELECTRONIC TRAP PRIMERS TO BE LOCATED IN MECHANICAL ROOMS AND CONCRETE BLOCK WALLS.)
9. REFER TO BALANCING VALVE ASSEMBLY DESIGN DETAIL FOR NOMINAL GPM AT EACH HOT WATER RETURN BRANCH LINE CONNECTION.
10. HOT WATER RETURN PIPING BRANCH LINES TO DROP DOWN IN WALL AND CONNECT TO HOT WATER SUPPLY AT STOPS OR AT TEMPERING STATIONS. REFER TO DESIGN DETAILS FOR DIAGRAMS SHOWING CONNECTIONS.
11. ARRANGE WATER HEATERS AND PIPING TO PROVIDE EASE OF DISASSEMBLY AND MAINTENANCE.
12. PROVIDE A 6mm POLYETHYLENE SLEEVE EQUAL TO IPS WATER-TITE FOR COPPER DOMESTIC WATER PIPE BELOW SLAB.
13. HOT AND COLD WATER SHUT-OFF VALVES AND HOT WATER RETURN BALANCING VALVES SHALL BE LOCATED TO BE EASILY ACCESSED.
14. PROVIDE WALL CLEANOUTS AT URINALS IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE ADOPTED STANDARD PLUMBING CODE.
15. VENTS THROUGH ROOF SHALL BE A MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKES AND BUILDING OPENINGS.
16. EQUIPMENT AND PIPING LOCATIONS SHOWN FROM THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY SIZE AND LOCATIONS PRIOR TO START OF WORK. IF SYSTEMS ARE NOT AS SHOWN IN DRAWINGS, REPORT DEVIATIONS TO ARCHITECT/ENGINEER WITHIN 48 HOURS OF DISCOVERY.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND PATCHING OF DAMAGED ARCHITECTURAL COMPONENTS TO REMAIN DURING THE REMOVAL OF DESIGNATED SYSTEMS. COORDINATE REPAIR REQUIREMENTS WITH ARCHITECT.
18. RESOLVE ALL QUESTIONS OR CONFLICTS WITH ENGINEER BEFORE ANY EQUIPMENT IS ORDERED, MATERIALS FABRICATED OR SYSTEMS INSTALLED.
19. COORDINATE THE INSTALLATION OF MECHANICAL SYSTEMS WITH OTHER TRADES.
20. COORDINATE ALL PENETRATIONS THROUGH STRUCTURAL MEMBERS WITH THE GENERAL CONTRACTOR.
21. COORDINATE AND VERIFY THAT ALL OPENINGS IN WALLS ABOVE CEILING / DOOR LOUVERS / DOOR UNDERCUTS ARE PROVIDED AS INDICATED ON THESE DRAWINGS.
22. COORDINATE EXACT SIZE OF EQUIPMENT HOUSEKEEPING PAD WITH EQUIPMENT OVERALL FOOTPRINT DIMENSIONS.
23. LEVEL ALL EQUIPMENT CURBS / BASES PRIOR TO INSTALLATION OF ANY EQUIPMENT.
24. INSTALL FULL SIZE CONDENSATE DRAIN WITH TRAP SEAL DEPTH EQUAL TO 1.5 X UNIT TOTAL STATIC PRESSURE FOR EACH COOLING COIL. DISCHARGE DRAIN TO ROOF DRAIN FOR ROOFTOP UNITS AND TO FLOOR DRAIN FOR FAN COIL UNITS AND INDOOR AIR HANDLING UNITS.
25. SEAL ALL WALL AND ROOF PENETRATIONS WATERTIGHT WITH SILICONE CAULKING AND BACKER ROD.
26. PROVIDE 30X30 ACCESS PANELS IN "HARD" CEILINGS FOR ACCESS TO ALL MOTORS / CONTROLS / BALANCING DAMPERS AND FIRE DAMPERS.
27. PROVIDE OFFSETS AS NECESSARY TO ACCOMMODATE STRUCTURE AND OTHER TRADES.
28. ALL PIPE, PIPE FITTINGS, TRAPS, FIXTURES, MATERIAL, AND DEVICES USED IN PLUMBING SYSTEM SHALL BE LISTED OR THIRD-PARTY CERTIFIED BY AN APPROVED LISTING AGENCY AND SHALL CONFORM TO APPLICABLE RECOGNIZED STANDARDS REFERENCED IN THE 2022 CALIFORNIA PLUMBING CODE.
29. THE LEAD CONTENT OF PIPES, PIPE OR PIPE FITTINGS, AND FIXTURES UBTENDED TO CONVEY OR DISPENSE WATER FOR HUMAN CONSUMPTION SHALL BE IN ACCORDANCE WITH SECTION 116875 OF THE HEALTH AND SAFETY CODE.
30. FLOOR AND TRENCH DRAINS SHALL BE IN ACCORDANCE WITH ASME A112.6.3.
31. FLOOR SINKS SHALL BE IN ACCORDANCE WITH ASME A112.6.7.
32. PROVIDE INSULATION FOR HOT WATER PIPING OM ACCORDANCE WITH SECTION 609.11.2. THE INSULATION WALL THICKNESS FOR PIPE SIZES UP TO 2" IN DIAMETER SHALL BE MOT LESS THAN DIAMETER OF THE PIPE, AND SHALL BE LESS THAN 2" FOR PIPE SIZES 2" OR MORE IN DIAMETER.
33. WATER SUPPLY AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED. CPC 403.3, ALL PIPES TO BE INSULATED.

LEGEND

ABBREVIATION	SYMBOL	DESCRIPTION
CD	CD	DRAIN PIPING
CW HW		COLD AND HOT WATER PIPING
HWR		HOT WATER RECIRCULATION PIPING
	(110°)	110° F HOT WATER PIPING
	(140°)	140° F HOT WATER PIPING
ST CR	ST CR	STEAM AND STEAM CONDENSATE RETURN PIPING
PCD	PCD	PUMPED CONDENSATE PIPING
SS	SS	SANITARY SEWER PIPING
GSS	GSS	GREASE SANITARY SEWER PIPING
GSS	GSS	GREASE SANITARY SEWER WITH HEAT TRACE
CWV	CWV	COMBINATION WASTE AND VENT PIPING
SD OD	SD OD	STORM DRAIN AND OVERFLOW STORM DRAIN PIPING
V	V	VENT PIPING
G	G	GAS PIPING
MPG	MPG	MEDIUM PRESSURE GAS PIPING
		UNION
		GATE OR BALL VALVE
		BALANCING VALVE
		PRESSURE REGULATING VALVE
PRV		PRESSURE REDUCING VALVE
		SOLENOID VALVE
		GLOBE VALVE
HEV		HOSE END DRAIN VALVE
		CHECK VALVE
		STRAINER
		LUBRICATED PLUG VALVE
		PNEUMATIC CONTROL VALVE
		TRIPLE DUTY VALVE
		COMBINATION FLOW CONTROL AND BALL VALVE
		BUTTERFLY VALVE
RPBP		REDUCED PRESSURE BACKFLOW PREVENT0R
	T	TRAP
		GAGE AND COCK
		CURB VALVE IN VALVE BOX
		RELIEF VALVE
	TP	TEST PLUG
		THERMOMETER
AAV, MAV	AAV MAV	AUTOMATIC AIR VENT AND MANUAL AIR VENT
AP		ACCESS PANEL
NC, NO		NORMALLY CLOSED, NORMALLY OPEN
S, Sp, Sv		SWITCH, SWITCH W/PILOT AND SWITCH, VARIABLE SPEED
RE:		REFERENCE
	A / M-1 · A / M-1 · R-1 / M-1	SECTION A ON SHEET M-1 DETAIL A ON SHEET M-1 RISER R-1 ON SHEET M-1
	1 · 1 · 1	WORK NOTE 1, REVISION NOTE 1, DEMO NOTE 1, POINT OF CONNECTION
E, R, N	(E), (R), (N)	EXISTING, RELOCATED AND NEW

SHEET INDEX

DRAWING NUMBER	DRAWING TITLE
P0.1	GENERAL NOTES & LEGENDS - PLUMBING
P0.2	SCHEDULES - PLUMBING
P1.0	OVERALL FLOOR PLAN - PLUMBING
P3.0	ROOF PLAN - PLUMBING
P4.1	ENLARGE FLOOR PLAN - SANITARY WASTE & VENT
P4.2	ENLARGE FLOOR PLAN - DOMESTIC WATER
P5.1	ISOMETRIC - SANITARY WASTE & VENT
P5.2	ISOMETRIC - DOMESTIC WATER
P6.0	DETAILS - PLUMBING
P7.0	TITLE 24 - PLUMBING

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STATE CODES WHETHER INDICATED HEREIN OR NOT.

2025 CALIFORNIA BUILDING STANDARDS CODE:

- PART 1 - CALIFORNIA ADMINISTRATIVE CODE (CAC)
- PART 2 - CALIFORNIA BUILDING CODE (CBC)
- PART 3 - CALIFORNIA ELECTRICAL CODE (CEC)
- PART 4 - CALIFORNIA MECHANICAL CODE (CMC)
- PART 5 - CALIFORNIA PLUMBING CODE (CPC)
- PART 6 - CALIFORNIA ENERGY CODE (CENC)
- PART 7 - (CURRENTLY VACANT)
- PART 8 - CALIFORNIA HISTORICAL BUILDING CODE (CHBC)
- PART 9 - CALIFORNIA FIRE CODE (CFC)
- PART 10 - CALIFORNIA EXISTING BUILDING CODE (CEBC)
- PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)
- PART 12 - CALIFORNIA REFERENCE STANDARDS CODE

PIPING SUPPORT CRITERIA

MATERIAL	TYPE OF JONT	HORIZONTAL	VERTICAL
CAST	LEAD AND OAKUM	5 FEET, EXCEPT WHERE 10 FOOT LENGTHS ARE INSTALLED	BASE AND EACH FLOOR, NOT TO EXCEED 15 FEET.
CAST	COMPRESSION GASKET	EVERY OTHER JOINT, UNLESS OVER 4 FEET THEN SUPPORT EACH JOINT	BASE AND EACH FLOOR, NOT TO EXCEED 15 FEET.
COPPER	SOLDERED OR BRAZED	1 1/2 INCH AND SMALLER, 6 FEET; 2 INCHES AND LARGER, 10 FEET	BASE AND EACH FLOOR, NOT TO EXCEED 10 FEET.
SCH 40 PVC/ABS	SOLVENT CEMENTED	ALL SIZES, 4 FEET; ALLOW FOR EXPANSION EVERY 30 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES; PROVIDE EXPANSION EVERY 30 FT.
CPVC	SOLVENT CEMENTED	1 INCH AND SMALLER, 3 FEET; 1 1/4 INCHES AND LARGER, 4 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES
PEX	COLD EXPANSION, INSERT AND COMPRESSION	1 INCH AND SMALLER, 32 INCHES 1 1/4 INCHES AND LARGER, 4 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES

1. SIZED PER TABLE 313.1, CPC.
2. FOR CSST PIPE FOLLOW MANUFACTURE INSTALLATION PROCEDURES.

GLOBAL MODULAR Incorporated
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PRINCIPAL ENGINEER — DATE: 5 May 2026
CITY ENGINEER — DATE: 5/7/2026

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MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:

GENERAL NOTES &
LEGENDS - PLUMBING

REVISIONS
1 -
1 -
1 -
1 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

P0.1

SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE/CONNECTION

MARK	FIXTURE	FIXTURE ROUGH-IN W	V	CW	HW	DESCRIPTION
L-1	LAVATORY	2"	2"	1/2"	1/2"	AMERICAN STANDARD DECORUM SINK MODEL 9024000EC.020, WALL MOUNTED, VITREOUS CHINA, OVAL BASIN, W/SLOAN SENSOR FAUCET MODEL SF-2450, 0.5 GPM, OR EQUIVALENT
WC-1	WATER CLOSET	4"	2"	3/4"	-	AMERICAN STANDARD GLENWALL VORMAX TOILET MODEL 2882108.02, FLUSH TANK, WALL MOUNTED, VITREOUS CHINA, ELONGATED BOWL, W/ RIGHT HAND TRIP, 1.28 GPF, ADA COMPLIANT, OR EQUIVALENT
KS-1	KITCHEN SINK	2"	2"	1/2"	1/2"	1.8 GPM @ 60 PSI.
US-1	UTILITY SINK	2"	2"	1/2"	1/2"	2.2 GPM @ 60 PSI.
SH-1	SHOWER	2"	2"	1/2"	1/2"	1.75 GPM SHOWER HEAD @ 80 PSI MAXIMUM FLOW. PROVIDE A THERMOSTATIC OR PRESSURE BALANCE TYPE MIXING VALVE FOR THERMAL SHOCK AND SCALD PROTECTION.
DW-1	DISHWASHER	2"	2"	1/2"	1/2"	REFER TO ARCHITECT SCHEDULE FOR SPECIFICATIONS.
IM-1	ICE MAKER	-	-	1/2"	-	REFER TO ARCHITECT SCHEDULE FOR SPECIFICATIONS.
BV-1	BALANCING VALVE	-	-	-	-	BELL AND GOSSETT, MODEL CB-3/4S LF, CIRCUIT SETTER PLUS, LEAD FREE CALIBRATED BALANCE VALVE.
RCP-1	RECIRCULATING PUMP	-	-	-	-	BELL AND GOSSETT, MODEL E3-4V/BTPRZ, LEAD-FREE, ENERGY EFFICIENT E3 ECORCIRC CIRCULATOR, 2 GPM AT 2 FOOT HEAD, 115V WITH AUTOMATIC OVERLOAD PROTECTION. PUMP SHALL HAVE BUILT-IN ADJUSTABLE THERMOSTAT.
FS-1	FLOOR SINK	2"	2"	-	-	J.R. SMITH, MODEL 3111L, 6" DEEP CAST IRON BODY WITH ACID RESISTING ENAMELED INTERIOR, ANCHOIR FLANGE WITH SEEPAGE HOLES, CLAMP COLLAR, ALUMINUM SEDIMENT BUCKET, AND 12" SQUARE NICKEL BRONZE RIM AND HALF GRATE. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS.
FD-1	FLOOR DRAIN	2"	2"	-	-	ZURN MEDIUM DUTY FLOOR DRAIN MODEL Z507, 7" TOP DRAIN, DURA-COATED CAST IRON BODY, OR EQUIVALENT. 2% SLOPE TO ALL FLOOR DRAINS. W/ TRAP PRIMER CONNECTION.

ACCESSORY SCHEDULE

MARK	FIXTURE	FIXTURE ROUGH-IN W	V	CW	HW	DESCRIPTION
WCO	WALL CLEANOUT	SEE PLANS	-	-	-	ZURN WALL CLEANOUT MODEL Z1441-VP, DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT, VANDAL PROOF SCREWS, OR EQUIVALENT. COORDINATE FINAL LOCATIONS AND FINISH WITH ARCHITECT.
GCO	GRADE CLEANOUT	SEE PLANS	-	-	-	ZURN GRADE CLEANOUT MODEL Z1400-DC, HEAVY DUTY, ADJUSTABLE LEVELING, GAS AND WATERTIGHT, VANDAL PROOF SCREWS, OR EQUIVALENT. COORDINATE FINISH WITH ARCHITECT.
TMV-1	THERMOSTATIC MIXING VALVE	-	-	1/2"	1/2"	SYMMONS MAXLINE THERMOSTATIC MIXING VALVE MODEL 7-210-CK-D, W/ INTEGRAL CHECK VALVES AND WALL MOUNTING BRACKET, ASSE 1017 AND ASSE 1070 COMPLIANT. PROVIDE DIAL TYPE THERMOMETER ON TEMPERED WATER LINE AT TMV OULET AND SET @ 110°F.
FCO	FLOOR CLEANOUT	SEE PLANS	-	-	-	ZURN FLOOR CLEANOUT MODEL Z1400-VP, ADJUSTABLE LEVELING, GAS AND WATERTIGHT, VANDAL PROOF SCREWS, OR EQUIVALENT. COORDINATE FINAL LOCATIONS AND FINISH WITH ARCHITECT.

PIPE MATERIAL SCHEDULE

SERVICE	LOCATION	PEX	TYPE "K" COPPER	TYPE "L" COPPER	TYPE "M" COPPER	DXV COPPER	PVC SCHEDULE 40	SCH 10 STAINLESS	NO-HUB CAST IRON	SCH 40 BLACK STEEL	GROOVED TYPE L COPPER	ADDITIONAL COMMENTS
		MATERIALS										
DOMESTIC WATER	BELOW GRADE		B									
	INSIDE, 4" & SMALLER			B								
	INSIDE, 5" & LARGER							B				
DOMESTIC HOT WATER	INSIDE, 4" & SMALLER			I								
	INSIDE, 5" & LARGE							I				
NATURAL GAS	ABOVE GRADE									B		
MEDIUM PRESSURE GAS	ABOVE GRADE											N/A
WASTE	BELOW GRADE						B					
	INSIDE						B					
VENT	BELOW GRADE						B					
	ABOVE INSIDE						B					
STORM DRAIN OVERFLOW	BELOW GRADE											N/A
DRAIN	INSIDE											N/A
TRAP PRIMER	BELOW GRADE		B									
	ABOVE GRADE		B									
CONDESATE	ABOVE GRADE						B					
GREASE WASTE	BELOW GRADE						B					

LEGEND

B = BARE PIPE
I = INSULATED
H = HEAT TRACED

HYDRAULIC CALCULATION

SYSTEM PARAMETERS

Water Meter:	Yes
PRV Required:	No
Total Fixture Units:	27.00 WSFU
Total System GPM:	19 GPM
Maximum System GPM:	100 GPM
Flush Type:	Tank
(N) Water Meter Size (in):	1 1/2

	SIZE (IN)	MAKE	MODEL
(N) Backflow Prevention Device:	1 1/2	ZURN	975XL2

HYDRAULIC CALCULATIONS:

Maximum Site Pressure:	65.0 psi	Minimum Site Pressure:	55.0 psi
Pressure Loss Through 1.5-inch BFP:	13.2 psi		
Water Meter Losses:	0.5 psi		
Maximum Building Pressure:	51.3 psi	Minimum Building Pressure:	41.3 psi
Minimum Building Pressure	41.3 psi		
Pressure Loss Due to Bevation:	4.1 psi	Static Head:	9.5'
Residual Pressure @ Farthest WC Fixture:	20.0 psi	Total Developed Length:	620.0'
Pressure Available for Friction Loss:	17.2 psi	25% Fitting Length:	155.0'
Allow able Friction Loss Per 100 ft:	2.2 psi	Total Equivalent Length:	775.0'

ALLOWABLE FRICTION LOSS PER 100 FT:	**2.2 psi**

SIZING CRITERIA:

PIPE SIZE (IN)	CW FLUSH VALVE (W.S.F.U.) (8 FT/S MAX)	CW FLUSH TANK (W.S.F.U.) (8 FT/S MAX)	HW FLUSH TANK (W.S.F.U.) (5 FT/S MAX)
1/2	-	-	-
3/4	-	4	4
1	-	10	10
1 1/4	14	20	20
1 1/2	35	36	36
2	132	115	115
2 1/2	329	294	245
3	666	559	406
3 1/2	1091	945	585
4	1668	1583	840

MAXIMUM FIXTURE FLOW RATES

FIXTURE TYPE	MAXIMUM FLOW RATE
NON RESIDENTIAL LAVATORY FAUCETS	0.5 GPM @ 60 PSI
METERING FAUCETS	0.2 GALLONS/CYCLE
SINK FAUCETS	1.8 GPM @ 60 PSI
WATER CLOSETS	1.28 GALLONS/FLUSH

TANK WATER HEATER SIZING CALCULATIONS

SYSTEM PARAMETERS

Mark	Plumbing Fixtures	Quantity	GPH	Total GPH
L-1	LAVATORY	4	5	20
US-1	UTILITY SINK	1	10	10
KS-1	KITCHEN SINK	1	20	20
SH-1	SHOWER	4	30	120
DW-1	DISHWASHER	1	30	30
		Possible Maximum Demand:		**200 GPH**

Demand Factor:	0.40
Probable Maximum Demand:	**80 GPH**

WATER HEATER SELECTION REQUIREMENTS

Fuel Type:	Electric
Thermal Efficiency:	96%
Recovery Rate:	80 GPH
Temperature Rise:	80 °F
Minimum Heating Element:	**16 KW**
Storage Capacity Factor:	1.00
Minimum Storage Tank Size:	**80 GAL**

WATER SUPPLY FIXTURE QUANTITIES

Appliances, Appurtenance, or Fixtures	Quantity	WSFU Public	WSFU Total
Lavatory	4	1	4
Water Closet, 1.28 GPF Gravity Tank	4	2.5	10
Shower, each head	4	2	8
Kitchen Sink	1	1.5	1.5
Utility Sink	1	1.5	1.5
Ice Maker	1	0.5	0.5
Dishwasher	1	1.5	1.5
		TOTAL FIXTURE UNITS:	**27**
		TOTAL SYSTEM GPM:	**19**

TOTAL SYSTEM DFU

Appliances, Appurtenance, or Fixtures	Quantity	DFU Public	DFU Total
Lavatory	4	1	4
Water Closet, 1.28 GPF Gravity Tank	4	4	16
Shower, each head	4	2	8
Kitchen Sink	1	2	2
Dishwasher	1	2	2
Utility Sink	1	2	2
Floor Sink	1	2	2
Floor Drain	4	2	8
		TOTAL DFU:	**44**

ELECTRIC STORAGE TANK WATER HEATER SCHEDULE

TAG	QTY.	MANUFACTURER	MODEL	CAPACITY (GALLON)	KW	RECOVERY @100°F RISE (GPH)	ELECTRICAL DATA (V/P/A)	DIMENSION (INCHES) WIDTH	DIMENSION (INCHES) HEIGHT	CONNECTION (INCHES) CW	CONNECTION (INCHES) HW	OPERATING WEIGHT (LBS)
EWH-1	1	RHEEM	ES120	119.9	18	74	240/1/75	36	67-5/8	1-1/2	1-1/2	430

EXPANSION TANK SCHEDULE

TAG	LOCATION	QTY.	TANK VOLUME (GALLONS)	DIMENSIONS (INCHES) DIAMETER	DIMENSIONS (INCHES) HEIGHT	STATIC SUPPY PRESSURE (PSI)	WEIGHT (LBS)	MAKE	MODEL
ET-1	REFER TO PLUMBING PLAN	1	6.4	12	18	65	17	AMTROL	ST-12C-DD

WATER HAMMER ARRESTOR

WHA SYMBOL	I	II	III	IV	V	VI
J.R. SMITH HYDROTROL OR APPROVED EQUAL	5005	5010	5020	5030	5040	5050
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	115-330

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PROJECT NAME:

48x60
VENTURA
FIRE DEPARTMENT
2269 ALESSANDRO DR, VENTURA, CA 93001

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026
CITY ENGINEER — DATE: 5/7/2026

ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:

SCHEDULES - PLUMBING

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

P0.2

SPEC NO. 2025-010 DWG. NO. 2025-D-010

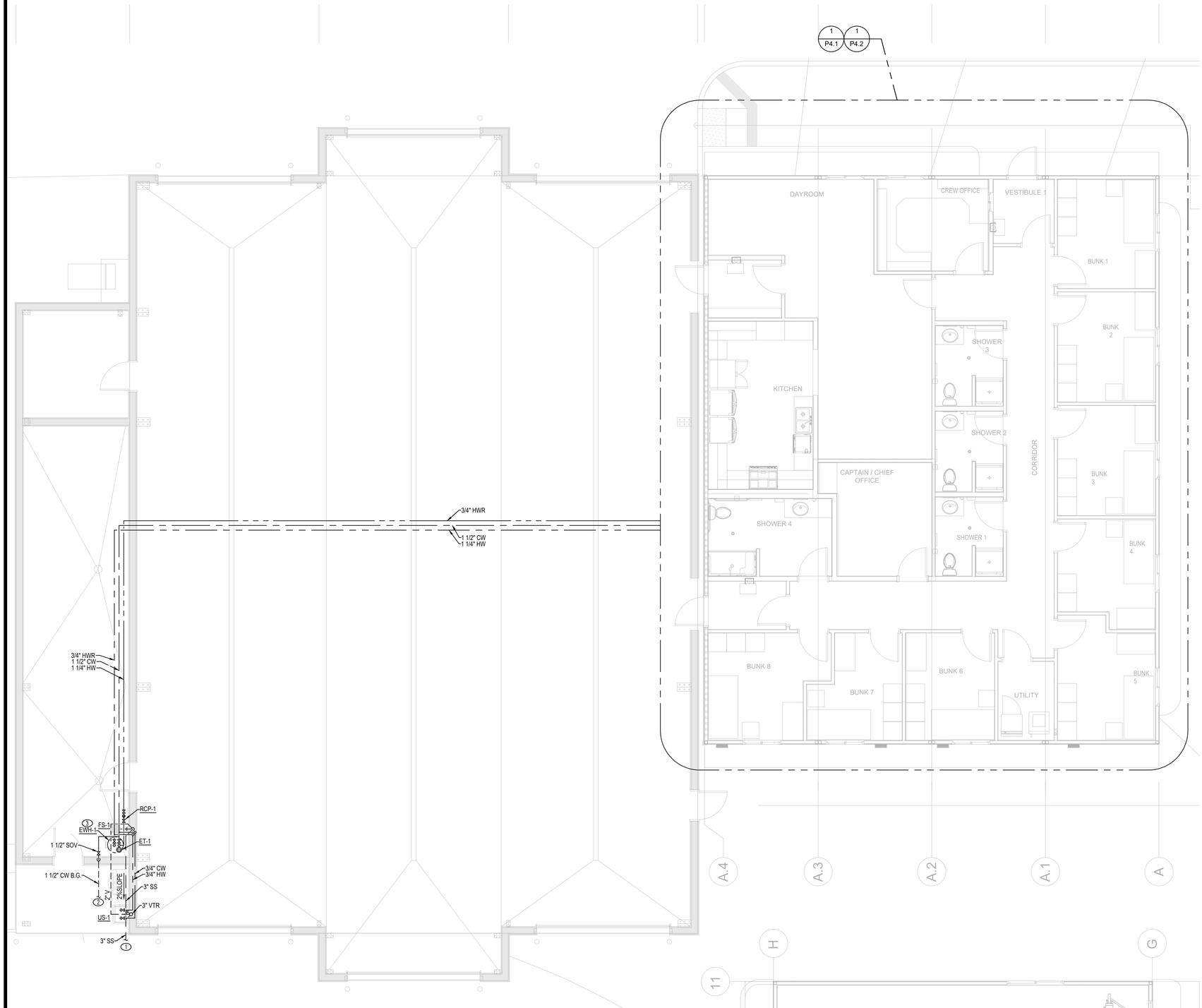
FOR REFERENCE ONLY

GENERAL NOTES

A. NOT IN USE.

PLUMBING KEY NOTES

1. CONNECT TO THE EXISTING SANITARY SEWER PIPE. CONTRACTOR TO VERIFY EXACT SIZE, LOCATION AND ELEVATION PRIOR TO WORK START.
2. CONNECT TO THE NEW 1 1/2" WATER METER AND NEW 1 1/2" BFP. CONTRACTOR TO VERIFY EXACT LOCATION AND ELEVATION OF WATER METER AND BFP AT SITE PRIOR OF WORK START.
3. 3/4" TEMPERATURE AND RELIEF DRAIN TERMINATE IN FLOOR SINK WITH MINIMUM 1" AIR GAP.



1 OVERALL FLOOR PLAN - PLUMBING
3/16" = 1'-0"

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2269 ALESSANDRO DR, VENTURA, CA 93001

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:

OVERALL FLOOR PLAN - PLUMBING

REVISIONS

1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

P1.0

SPEC NO. 2025-010 DWG. NO. 2025-D-010

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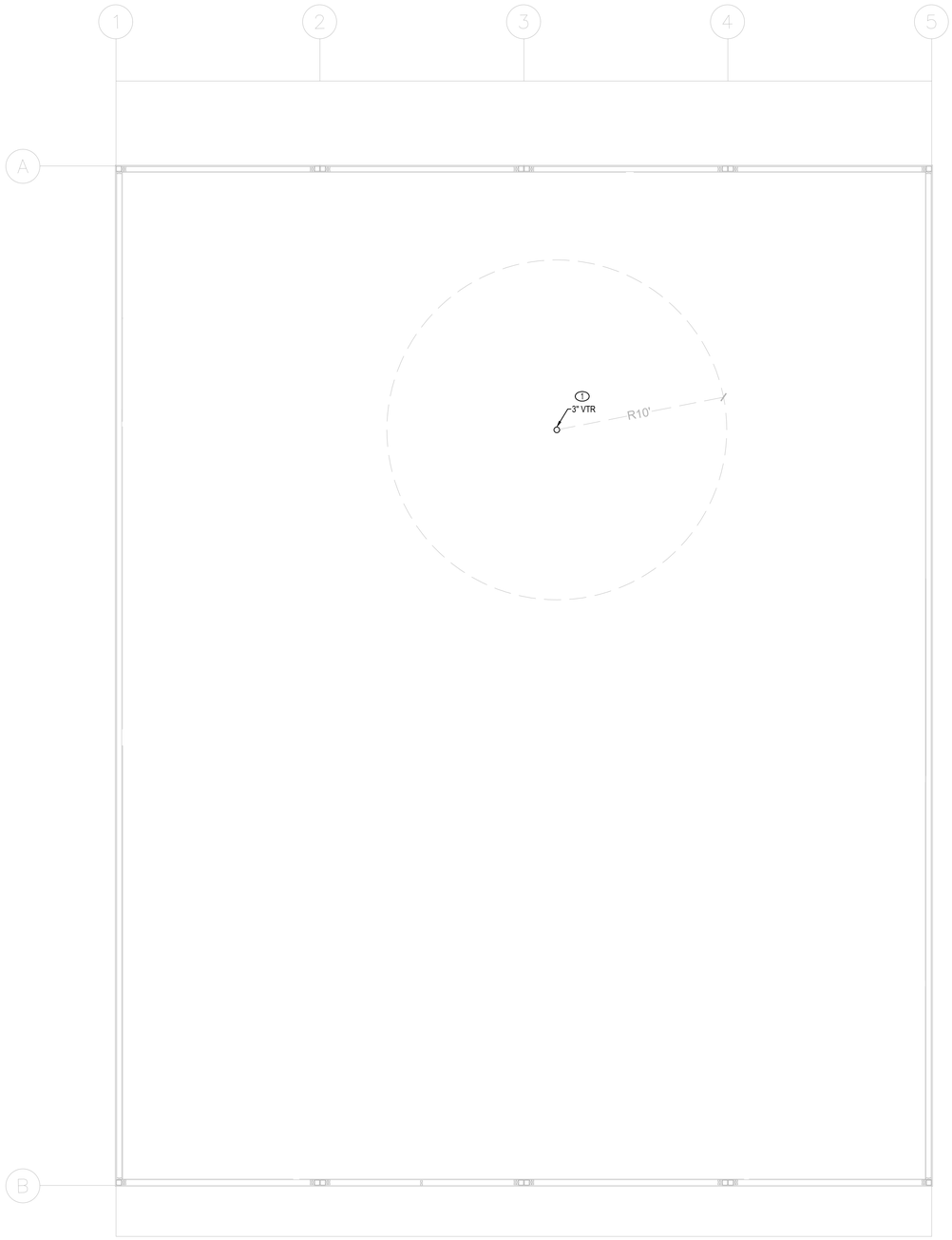
GENERAL NOTES

A. NOT IN USE.



PLUMBING KEY NOTES

(1) 3" VENT THROUGH ROOF. VERIFY THE FINAL LOCATION PRIOR TO ROUGH-IN. VENT SHALL BE TERMINATED WITH A WEATHER PROTECTIVE CAP.

1 ROOF PLAN - PLUMBING
1/4" = 1'-0"

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CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:

ROOF PLAN - PLUMBING

REVISIONS

1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

P3.0

SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

GENERAL NOTES

A. NOT IN USE.

PLUMBING KEY NOTES

1. CONNECT TO THE EXISTING SANITARY SEWER PIPE. CONTRACTOR TO VERIFY EXACT SIZE, LOCATION AND ELEVATION PRIOR TO WORK START.
2. CONNECT DISHWASHER SANITARY PIPE TO THE TAILPIECE OF THE KITCHEN SINK.
3. 3/4" CD DOWN IN WALL AND CONNECT TO TAIL PIECE OF LAVATORY.

1 ENLARGE FLOOR PLAN - SANITARY WASTE & VENT
1/4" = 1'-0"

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CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:

ENLARGE FLOOR PLAN - SANITARY WASTE & VENT

REVISIONS

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2 -
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PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

P4.1

SPEC NO. 2025-010 DWG. NO. 2025-D-010

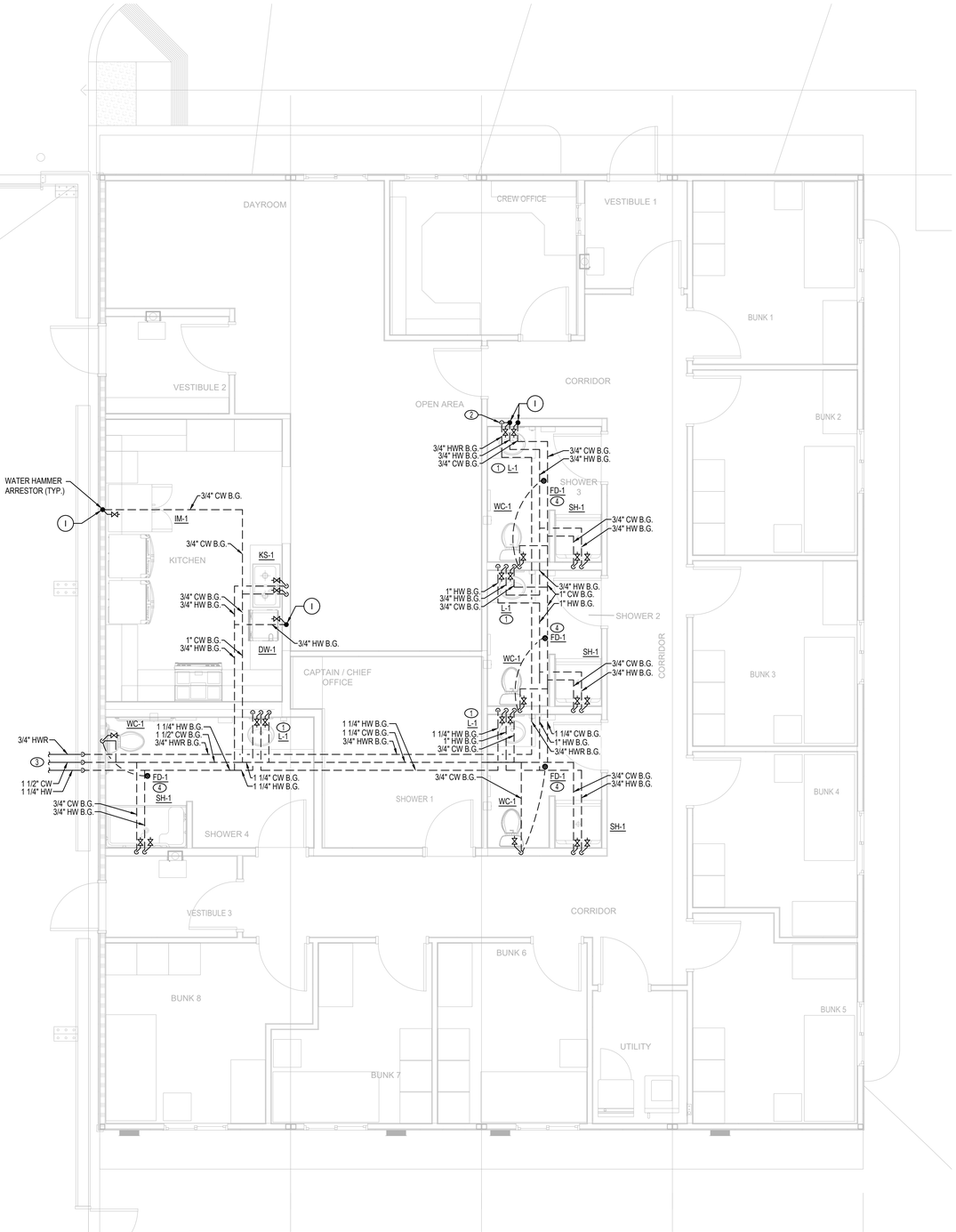
FOR REFERENCE ONLY

GENERAL NOTES

A. NOT IN USE.

PLUMBING KEY NOTES

1. THERMOSTATIC MIXING VALVE (TMV-1) AND SHUT OFF VALVE (SOV) PLACED VERTICALLY. REFER SHEET 4.2 FOR MORE DETAILS.
2. BALANCING VALVE (BV-1) AND CHECK VALVE PLACED VERTICALLY. REFER SHEET 4.2 FOR MORE DETAILS.
3. REFER TO SHEET P1.0 OVERALL PLAN FOR CONTINUATION.
4. 1/2" CW TO TRAP PRIMER.



1 ENLARGE FLOOR PLAN - DOMESTIC WATER
1/4" = 1'-0"

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PROJECT NAME:

48x60
VENTURA
FIRE DEPARTMENT
2269 ALESSANDRO DR, VENTURA, CA 93001

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:

ENLARGE FLOOR PLAN - DOMESTIC WATER

REVISIONS
1 -
2 -
3 -
4 -

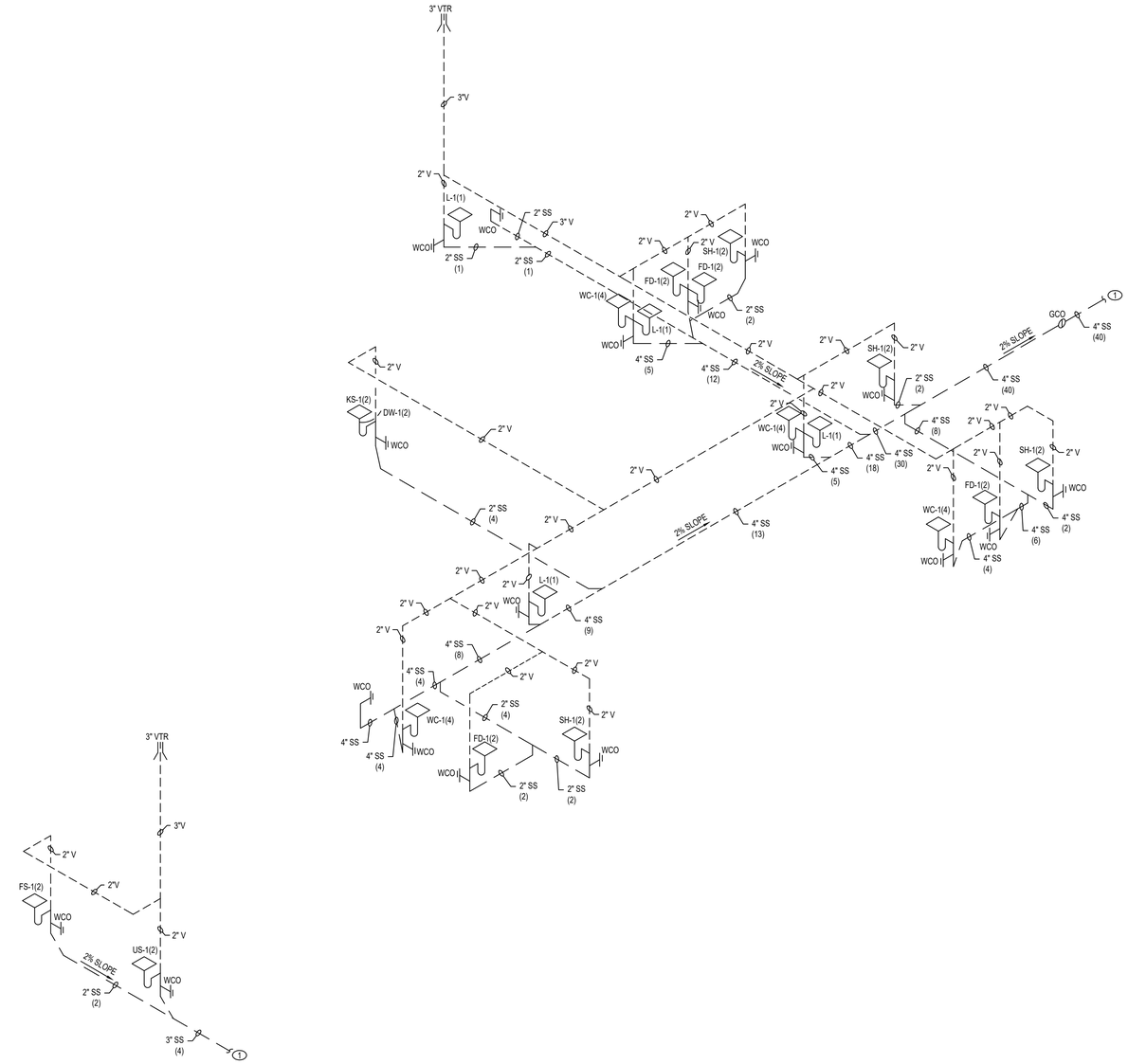
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER
P4.2
SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

PLUMBING KEY NOTES

(1) CONNECT TO THE EXISTING SANITARY SEWER PIPE. CONTRACTOR TO VERIFY EXACT SIZE, LOCATION AND ELEVATION PRIOR TO WORK START.



1 ISOMETRIC - SANITARY WASTE & VENT
NTS

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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:

ISOMETRIC - SANITARY
WASTE & VENT

REVISIONS

1	-
2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

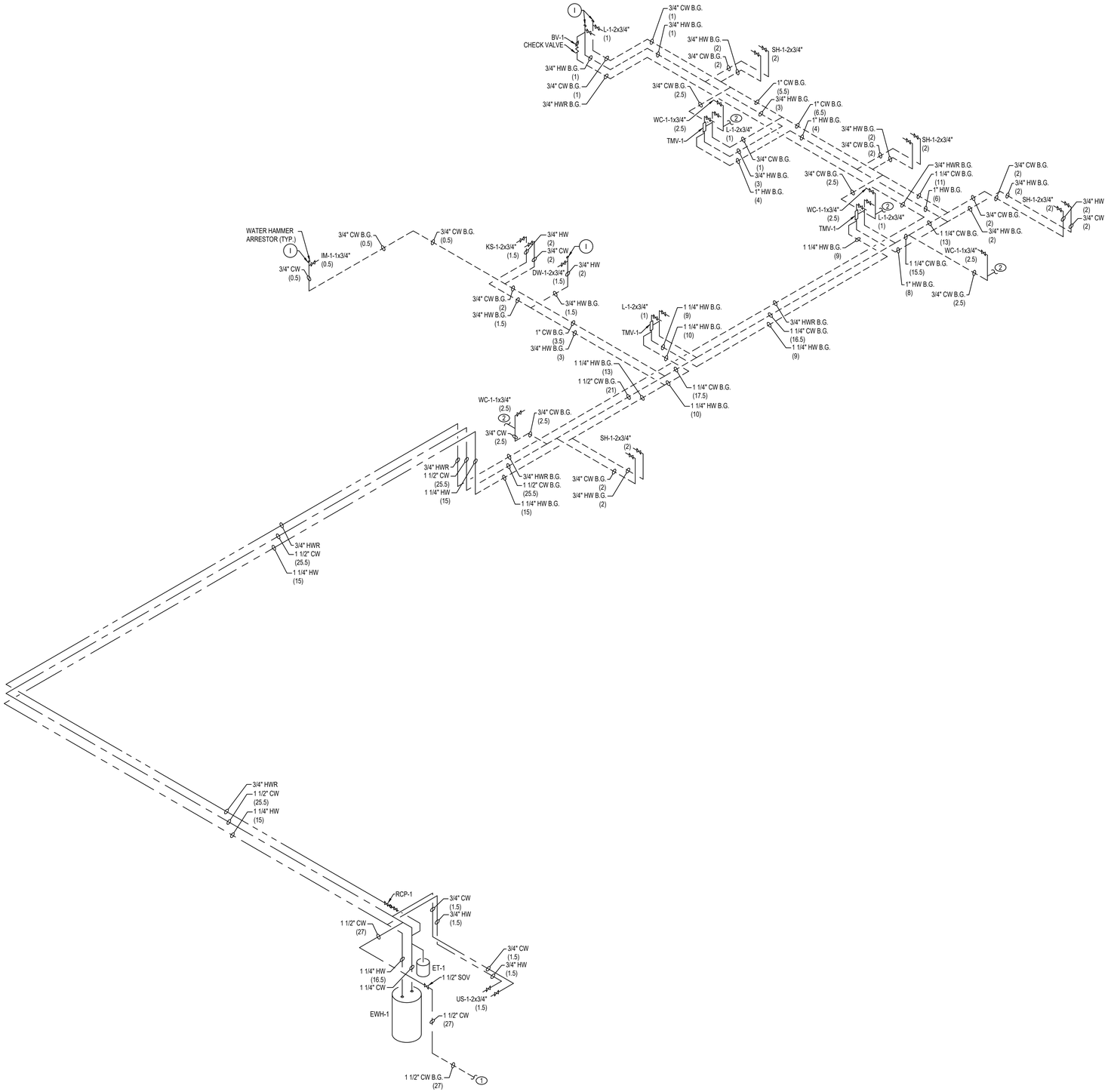
P5.1

SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

PLUMBING KEY NOTES

1. CONNECT TO THE NEW 1 1/2" WATER METER AND NEW 1 1/2" BFP. CONTRACTOR TO VERIFY EXACT LOCATION AND ELEVATION OF WATER METER AND BFP AT SITE PRIOR OF WORK START.
2. 1/2" CW TO TRAP PRIMER.



1 ISOMETRIC - DOMESTIC WATER
NTS

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PROJECT NAME:

48x60 VENTURA FIRE DEPARTMENT

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PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:

ISOMETRIC - DOMESTIC WATER

REVISIONS

1 -
2 -
3 -
4 -

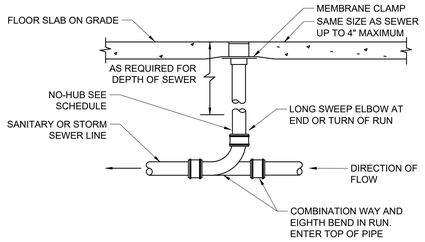
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

P5.2

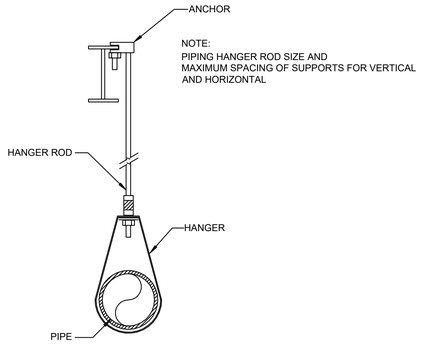
SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

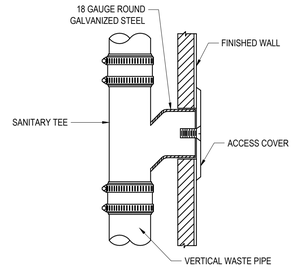


NOTES:
1. PROVIDE ROUND SECURED NICKEL BRONZE ADJUSTABLE TOP WITH "CO" CAST IN COVER.
2. PROVIDE CLEANOUTS TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS).
3. PROVIDE BRONZE PLUG IN CAST IRON BODY.
4. LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 50' INTERVALS ON STRAIGHT RUNS, AND WHERE SHOWN ON PLANS.
5. PROVIDE BACKFILL PER ARCHITECTURAL SPECIFICATIONS.
6. LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND.
7. CONSULT LOCAL CODES FOR OTHER FCO REQUIREMENTS.

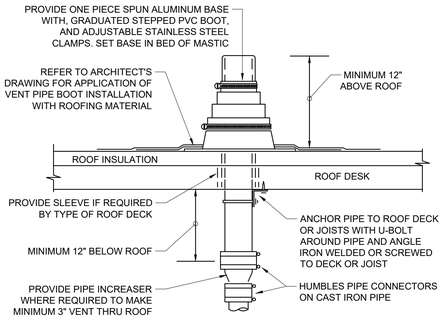
1 FLOOR CLEANOUT
NTS



2 PIPE HANGAR
NTS

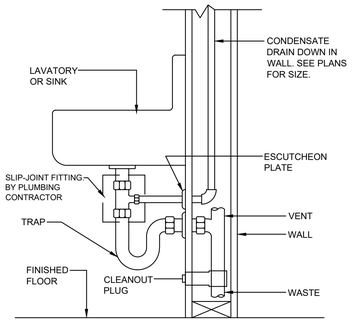


3 WALL CLEANOUT DETAIL
NTS

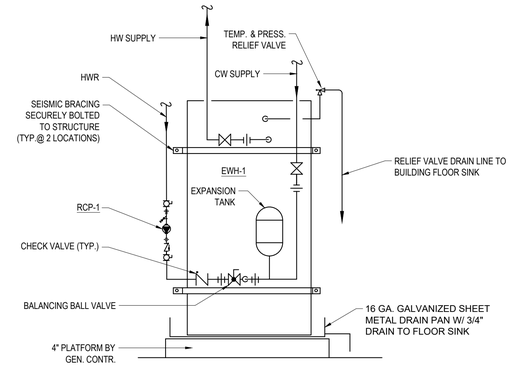


REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL- SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. VERIFY FLASHING AND COUNTERFLASHING WITH ROOFING CONTRACTOR.

4 VENT THRU ROOF
NTS



5 TYPICAL CONNECTION AT LAVATORY
NTS



6 ELECTRIC STORAGE WATER HEATER DETAIL
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PROJECT NAME:

48x60
VENTURA
FIRE DEPARTMENT
2269 ALESSANDRO DR, VENTURA, CA 93001

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026
CITY ENGINEER — DATE: 5/7/2026
ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:

DETAILS - PLUMBING

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER
P6.0
SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	VENTURA FIRE DEPARTMENT	Report Page: (Page 1 of 7)
Project Address:	2269 ALESSANDRO DR, VENTURA, CA 93001	Date Prepared: 2026-03-31T07:03:29-04:00

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

A. GENERAL INFORMATION

01	Project Location (city)	VENTURA	02	Climate Zone	6
03	Occupancy Types Within Project (select all that apply):				

● All Other Occupancies

B. PROJECT SCOPE

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

01	02	03		
My project consists of (check all that apply):	System Type [1,2]	System Components		
☒ New system (DHW system being installed for the first time)	Serving Nonresidential or MF/Hotel/Motel Common use area	☒ Equipment	☒ Distribution	☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution	☐ Controls

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

C. COMPLIANCE RESULTS

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

01	02	03	04	05
Domestic Hot Water Equipment	Distribution Systems	Controls	Pool/Spa	**Compliance Results**
Table F	Table G	Table H	Table J	
Yes	Yes	Yes		COMPLIES

D. EXCEPTIONAL CONDITIONS

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

STATE OF CALIFORNIA
Domestic Water Heating System
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E. ADDITIONAL REMARKS

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

F. DOMESTIC HOT WATER EQUIPMENT

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

Equipment Schedule: Water Heating Efficiency and Standby Loss

01		02		03		04		
System Name	EWH-1	Space type	Nonresidential	Exception to §140.5(c)/§170.2(d)2B		Exceptions Do Not Apply	Capacity-weighted Average Efficiency %	0
05	06	07	08	09	10	11	12	13
Name or Item Tag	Quantity	System Status	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Rated Efficiency	Minimum Efficiency Required	Maximum Standby Loss
EWH-1	1	New/ Addition	Electric Storage	199.9		0.98	Must meet Federal Minimum Requirements	If applicable, must meet Federal Minimum Requirements

[1] *FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.*
[2] *FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: https://cacertappliances.energy.ca.gov/Pages/Search/AdvancedSearch.aspx*

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

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DOMESTIC HOT WATER DISTRIBUTION SYSTEM

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

Recirculation Loops in Central Systems Serving Dwelling Units, Hotel/Motel Guest Rooms, or Nonresidential Spaces - §110.3, §170.2(d)2

System Name	EWH-1		
	Yes	No	Requirement
01	○	●	Air release valve or vertical pump installation per §110.3(c)4A
02	○	●	Check valve or similar located between recirculation pump and water heating equipment to prevent backflow per §110.3(c)4B
03	○	●	Hose bibb installed between pump and equipment and isolation valve between hose bibb and equipment per §110.3(c)4C
04	○	●	Isolation valves on both sides of the pump per §110.3(c)4D
05	○	●	Cold water and recirculation loop piping shall not be connected to the hot water storage tank drain port per §110.3(c)4E
06	○	●	Check valve installed on cold water supply between hot water system and next closest tee on cold water supply per §110.3(c)4F
07	○	●	DWELLING UNITS ONLY: For heat pump water heating systems, the hot water return from the recirculation loop shall connect to a recirculation loop tank and shall not directly connect to the primary heat pump water heater inlet or the primary thermal storage tanks per §170.2(d2Aii.
08	○	●	DWELLING UNITS ONLY: For heat pump water heating systems, the fuel source for the recirculation loop tank shall be electricity per §170.2(d2Aiii.
09	○	●	DWELLING UNITS ONLY: The recirculation loop tank temperature setpoint shall be at least 10°F lower than the primary thermal storage tank temperature setpoint - §170.2(d)2Av
10	○	●	DWELLING UNITS ONLY: All hot water distribution piping shall be sized in accordance with the California Plumbing Code Appendix M per §170.2(d)2C
11	○	●	DWELLING UNITS ONLY:A recirculation system with mechanical or digital thermostatic master mixing valve on each distribution supply and return loop and meet the requirements in Reference Appendix RA4.4, unless building has ≤ 8 dwelling units, per §170.2(d)2D.
12	○	●	DWELLING UNITS ONLY: Insulation for hot water pipes shall be field verified as specifid in Reference Appendix RA3.6.3 per §170.2(d)2E.

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CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	VENTURA FIRE DEPARTMENT	Report Page: (Page 4 of 7)
		Date Prepared: 2026-03-31T07:03:29-04:00

DOMESTIC HOT WATER DISTRIBUTION SYSTEM

Mandatory Pipe Insulation All Occupancies - §120.3, §160.4

System Name		EWH-1	
	Yes	Not Applicable	Requirement
16	○	●	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see blow) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
17	○	●	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A1 or Table 120.3-A2 (see below) per §120.3: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
18	●	○	Per §120.3(b)/ §160.4(f), pipe and appurtenance insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 160.4-A PIPE INSULATION THICKNESS

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

DOMESTIC HOT WATER CONTROLS - §110.3, §120.9, §160.4(d), §170.2(d), §180.1(b)3

This table is used to demonstrate compliance with control requirements in §110.3 for all occupancies. For nonresidential occupancies, compliance is demonstrated with requirements in §120.9. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in §160.4(d) / §170.2(d).

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
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		Date Prepared: 2026-03-31T07:03:29-04:00

System Name		EWH-1	
	Yes	Not Applicable	Requirement
01	☒	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per §110.3(a).
02	☐	☒	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per §110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☒	☐	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☒	For recirculation systems serving multiple dwelling units, design includes a mechanical or digital thermostatic master mixing valve on each distribution supply and return loop per §170.2(d) or §180.1(b)3 for additions.
05	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per §170.2(d).
06	☐	☒	Combustion air positive shut-off shall be provided per §120.9(a) & §160.4(d) on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	☐	☒	Boiler combustion air fans with motor >= 10 hp shall meet one of the following for newly installed boilers per §120.9(b) & §160.4(d)2: • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume.
08	☐	☒	Newly installed boilers with an input capacity (dgte/) 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited per §120.9(c) & §160.4(d)3.

DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

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

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	VENTURA FIRE DEPARTMENT	Report Page: (Page 6 of 7)
		Date Prepared: 2026-03-31T07:03:29-04:00

DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	VENTURA FIRE DEPARTMENT	Report Page: (Page 7 of 7)
Project Address:	2269 ALESSANDRO DR, VENTURA, CA 93001	Date Prepared: 2026-03-31T07:03:29-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	DONAL SHAMON	Documentation Author Signature:	
Company:	PIVOT ENGINEERING CONSULTANTS	Signature Date:	2026-03-31
Address:	11226 EVERGREEN LOOP	CEA/AEA/ECC Certification Identification (if applicable):	
City/State/Zip:	CORONA, CA 92883	Phone:	(909) 610 5364

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Person Name:	DONAL SHAMON	Responsible Person Signature:	
Responsible Person Scope:			
Company:	PIVOT ENGINEERING CONSULTANTS	Date Signed:	2026-03-31
Address:	11226 EVERGREEN LOOP	License:	38411
City/State/Zip:	CORONA, CA 92883	Phone:	(909) 610 5364

GLOBAL MODULAR Incorporated
AURORA DESIGNS ~ MODTECH Designs | MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

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PROJECT NAME:

48x60
VENTURA
FIRE DEPARTMENT
2269 ALESSANDRO DR, VENTURA, CA 93001

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

5 May 2026
PRINCIPAL ENGINEER DATE

5/7/2026
CITY ENGINEER DATE

ARCHITECT OF RECORD

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

SHEET TITLE:

TITLE 24 - PLUMBING

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER
P7.0
SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

BUILDING CODES AND STANDARDS

2007 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 CCR
2007 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2006 INTERNATIONAL BUILDING CODE VOLUMES 1–3 AND 2007 CALIFORNIA AMENDMENTS)
2007 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2005 NATIONAL ELECTRICAL CODE AND 2007 CALIFORNIA AMENDMENTS)
2007 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 CCR
(2006 UNIFORM MECHANICAL CODE AND 2007 CALIFORNIA AMENDMENTS)
2007 CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24 CCR
(2006 UNIFORM PLUMBING CODE AND 2007 CALIFORNIA AMENDMENTS)
2007 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR
2004 ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS
2007 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR
(2006 INTERNATIONAL FIRE CODE AND 2007 CALIFORNIA AMENDMENTS)
2007 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS	2002 EDITION
NFPA 14	STANDPIPE SYSTEMS	2003 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2002 EDITION
NFPA 17a	WET CHEMICAL SYSTEMS	2002 EDITION
NFPA 20	STATIONARY PUMPS	2003 EDITION
NFPA 24	PRIVATE FIRE MAINS	2002 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	2002 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2006 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2004 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS–2007 CBC (SFM) CHAPTER 35

CITY OF VENTURA FIRE STATION
2269 ALESSANDRO DR, VENTURA, CA 93001
MANUFACTURED MODULAR BUILDING
(1) 24' x 40'

SERIAL NO. 2BE3265 AND 2B3266

DRAWING INDEX

SHEET NO.	
	ARCHITECTURAL
A0.0	TITLE SHEET
A0.3	FINISH SCHEDULES
A1.1	FLOOR PLAN 24'x40'
A2.1	REFLECTED CEILING PLAN 24'x40'
A4.1	INTERIOR ELEVATIONS 24'x40'
A5.1	EXTERIOR ELEVATIONS 24'x40'–WOOD SIDING
	ELECTRICAL
E1.0	ELECTRICAL PLAN POWER 24'x40'
E2.0	ELECTRICAL PLAN LIGHTING 24'x40'
	MECHANICAL
M0.1	MECHANICAL SCHEDULE – NOTES & DETAILS
M1.0	MECHANICAL PLAN WALL MOUNT 24'x40'
	FIRE SPRINKLERS
FS–1	FIRE SPRINKLERS COVER SHEET
FS–2	MODULAR BLDG–FIRE SPRINKLER LAYOUT

PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR incorporated
AURORA DESIGNS · MODTECH Designs · MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
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PROJECT NAME:
24x40
GYM VENTURA
FIRE DEPARTMENT
2269 ALESSANDRO DR, VENTURA, CA 93001

SHEET TITLE:
TITLE SHEET

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:
DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER
A0.0
SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

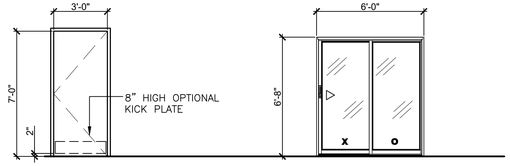
HARDWARE GROUP (ENTRY/OFFICE) 1		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	'FALCON': T 511 DANE LEVER 626
1	KEYING	FALCON TEMPORARY CORE
3	HINGES	'MCKINNEY': TZ714 4.5"x4.5" NRP A5133
1	CLOSER	'NORTON': 8301 SLIM COVER (5 LB OPERATING PUSH/PULL PRESSURE)
1	THRESHOLD	'PEMKO': 271A 36"
1	DOOR BOTTOM	'PEMKO': 216AV 36"
1	WEATHER-STRIP	'PEMKO': 2891AS 36"x84"
1	KICK PLATE	'ROCKWOOD': K1050 8"x34"
1	DOOR STOP	'ROCKWOOD': 443 FLOOR STOP (LOCATED 4" FROM WALL)

DOOR SCHEDULE

#	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	HARDWARE GROUP	DOOR MATERIAL	DOOR GAUGE	DOOR FRAME	FRAME GAUGE	GLAZING	FIRE RATING	REMARKS
100	A	3'-0"	7'-0"	1	STL	18	KD	16	–	–	–
101	B	6'-0"	6'-8"	–	MF	–	MF	–	YES	–	SLIDING PATIO DOOR

DOOR MATERIAL LEGEND
STL: STEEL DOOR-HOLLOW CORE
MF: PER MANUFACTURER

DOOR FRAME LEGEND
KD: KNOCK DOWN-HOLLOW METAL
MF: PER MANUFACTURER



DOOR TYPE A DOOR TYPE B

STANDARD DOOR TYPE

ROOM FINISH SCHEDULE

ROOM NAME	FLOOR FINISH	BASE	WALLS				CEILING FINISH	HEIGHT CEILING	REMARKS
			ELEV. 1	ELEV. 2	ELEV. 3	ELEV. 4			
GYM	VCT	4TB	FRP	FRP	FRP	FRP	AT	8'-6"	–

FLOOR FINISH LEGEND
VCT: VINYL COMPOSITION TILE
4TB: 4" TOP SET BASE

WALL FINISH LEGEND
FRP: 1/8" FIBERBOARD REINFORCED PANELS OVER 1/2" MOISTURE RESISTANT GYP BOARD

CEILING FINISH LEGEND
AT: ACOUSTICAL TILE IN HEAVY DUTY T-BAR GRID

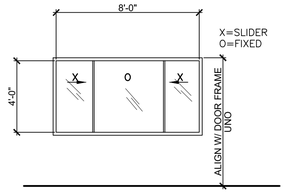
WINDOW SCHEDULE

*	WINDOW WIDTH	WINDOW HEIGHT	WINDOW FRAME	WINDOW FINISH	WINDOW GLAZING	FIRE RATING	REMARKS
A	8'-0"	4'-0"	AL	CA	1&4	–	SCREENED

WINDOW FRAME LEGEND
AL: ALUMINUM

WINDOW FINISHES
CA: CLEAR ANODIZED
BA: BRONZE ANODIZED
PNT: PAINTED

GLAZING TYPES
1: 46% TEMPERED GRAYLITE
2: 14% TEMPERED GRAYLITE
3: CLEAR TEMPERED
4: DUAL PANE
5: SINGLE PANE



WINDOW TYPE A

WINDOW TYPE

PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR incorporated
AURORA DESIGNS MODTECH Designs MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
ATWATER, CA 95301
PHONE: (209) 676-8029
FAX: (209) 676-8067
WEBSITE: WWW.GDVI.NET

SOUTHERN CALIFORNIA DIVISON
1860 CHICAGO AVE., SUITE I-7
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PROJECT NAME:
24x40
GYM VENTURA
FIRE DEPARTMENT
2269 ALESSANDRO DR, VENTURA, CA 93001

SHEET TITLE:
FINISH SCHEDULES

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026
CITY ENGINEER — DATE: 5/7/2026

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

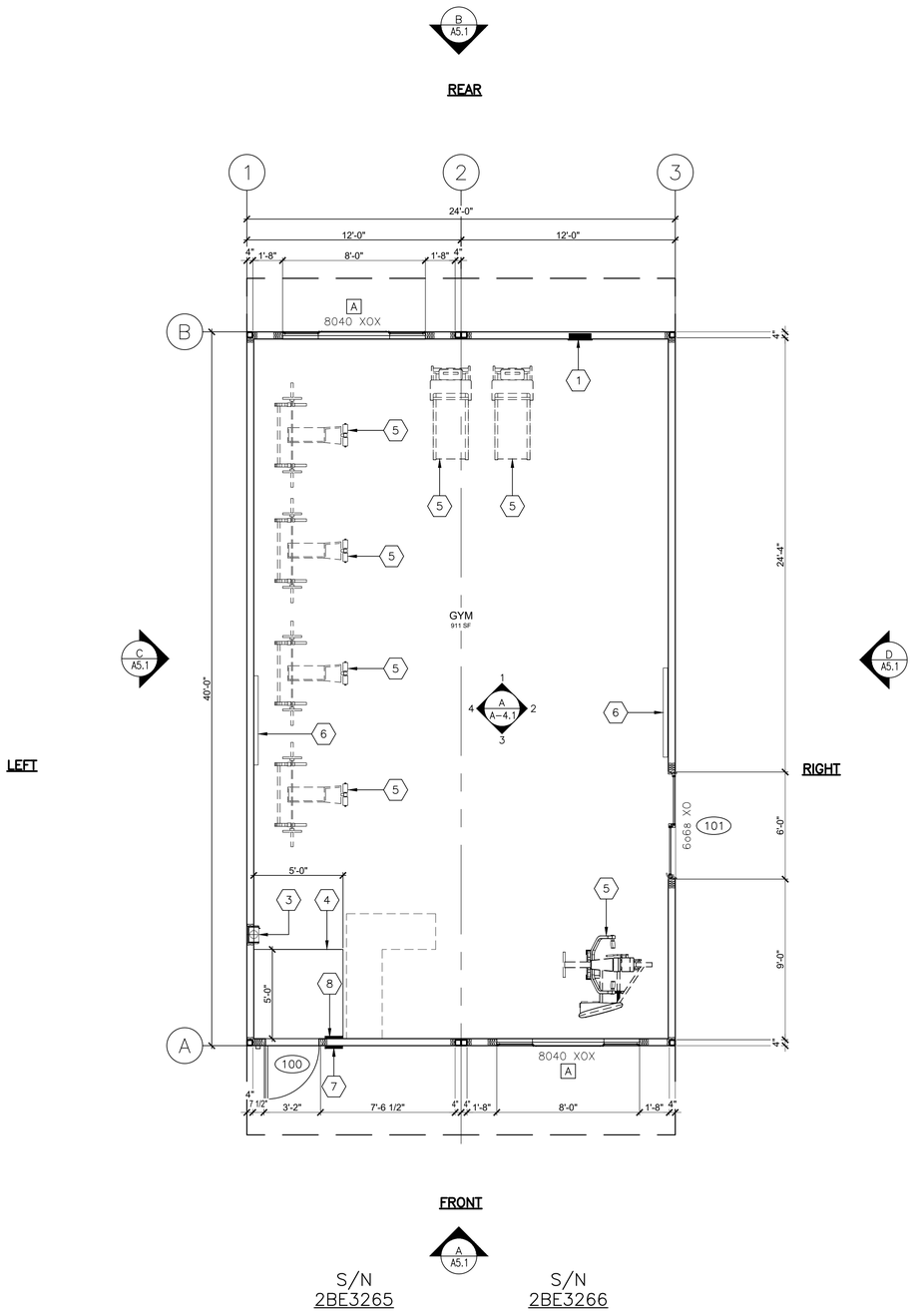
ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:
DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER
A0.3
SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY



S/N
2BE3265

S/N
2BE3266

FLOOR PLAN 24'x40'

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

KEY NOTES

1. ELECTRICAL PANEL (SEE ELECTRICAL SHEETS)
2. AC UNIT (SEE MECHANICAL SHEETS)
3. FIRE EXTINGUISHER–5 LB DRY CHEMICAL W/ 2–A:20–B:C UL RATING +48" AFF TO TOP OF HANDLE IN SEMI–RECESSED CABINET WITH 4" MAX PROJECTION, TYP.
4. PRIMARY ENTRANCES SHALL REQUIRE A MIN 48" OVERHANG OR AWNING OR RECESSED AREA OR OTHER APPROPRIATE METHOD INCLUDING A 60" X 60" MIN FLOOR AREA USING VCT OR SHEET VINYL WHEN USING CARPET FLOORING PER CALGREEN SECTION 5.407.2.2.1
5. GYM EQUIPMENT **(BY OTHERS)**
6. 55"–65" TV **(BY OTHERS)**
7. ROOM SIGNAGE
8. EXIT SIGNAGE

OCCUPANT LOAD FORMULA

BUILDING SQUARE FOOTAGE	960 SQ FT
OCCUPANT NET PER TABLE 1004.5	50
MAXIMUM OCCUPANTS	19

GENERAL NOTES

1. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON COVER SHEET PROVIDED AND INSTALLED BY OWNER ON SITE.

PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR incorporated
AURORA DESIGNS · MODTECH Designs · MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

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PROJECT NAME:
24x40
GYM VENTURA
FIRE DEPARTMENT
2269 ALESSANDRO DR, VENTURA, CA 93001

SHEET TITLE:
FLOOR PLAN
24'X40'

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026
CITY ENGINEER — DATE: 5/7/2026
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MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

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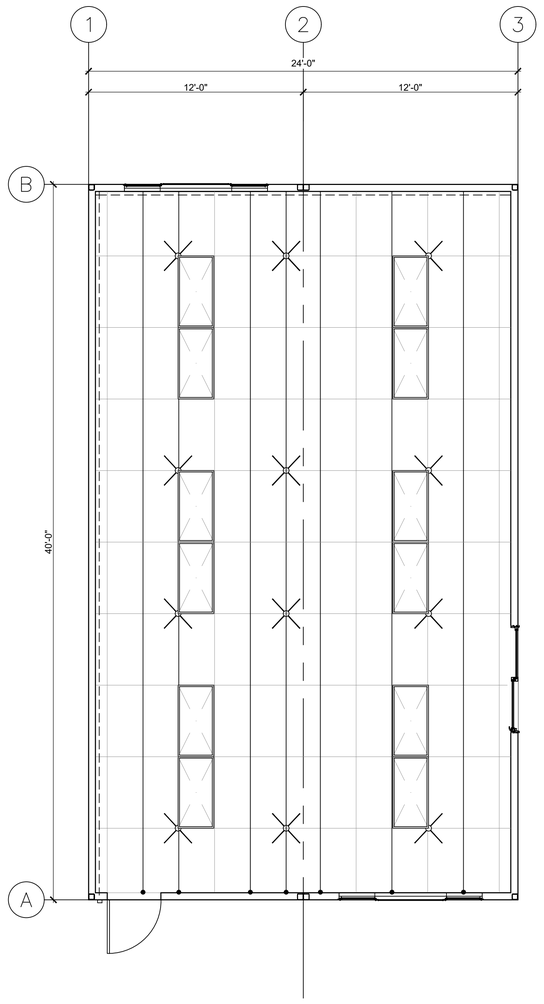
4 -

PROJECT NO.:
DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER
A1.1
SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

REAR



LEFT

RIGHT

FRONT

REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

LEGEND

- SUPPLY AIR DIFFUSERS NOT SHOWN FOR CLARITY (SEE MECHANICAL PLAN)
- 2'x4' FLUORESCENT DROP-IN FIXTURE (SEE ELECTRICAL PLAN)
- 4-WAY SPLAY WIRE SYSTEM
- 48" / 24" — T-GRID CEILING
- INDICATES FREE SIDE. ALL OTHER SIDES SHALL BE FIXED
- INDICATES MAIN RUNNER LOCATIONS

PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR incorporated

AURORA DESIGNS · MODTECH Designs · MODULAR STRUCTURES INTERNATIONAL INC. DESIGNS

CONTRACTORS LICENSE #837357

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REFLECTED CEILING PLAN
24'X40'

PROJECT NAME:
24x40
GYM VENTURA
FIRE DEPARTMENT
2269 ALESSANDRO DR, VENTURA, CA 93001

SHEET TITLE:

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

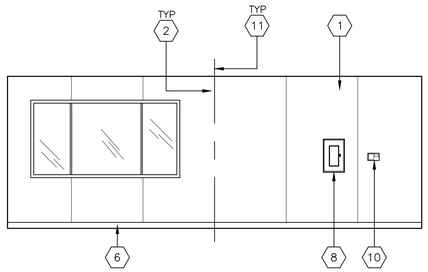
REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:
DRAWN BY:
SCALE: AS NOTED
DATE:

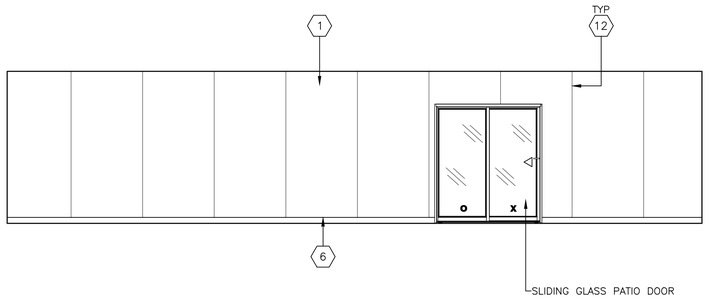
SHEET NUMBER
A2.1

SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY



ELEVATION 1



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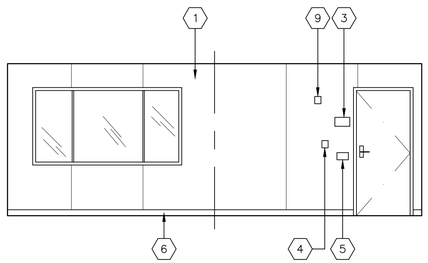
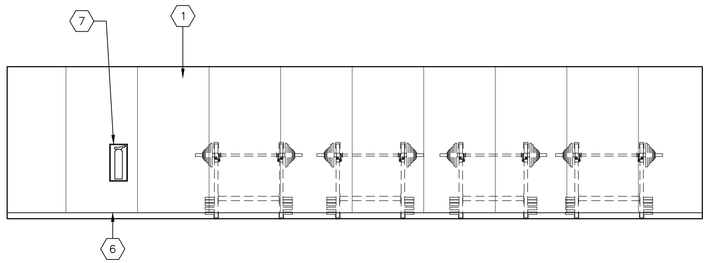


ELEVATION 3



ELEVATION 4

KEY NOTES

1. TYPICAL INTERIOR FINISH SEE ROOM FINISH SCHEDULE SHEET A0.3
2. MODULAR JOINT
3. TACTILE EXIT SIGNAGE (SEE SIGNAGE SHEET)
4. FIRE ALARM PULL STATION (SEE ELECTRICAL PLAN)
5. OCCUPANCY SENSOR OR LIGHT SWITCH (SEE ELECTRICAL PLAN)
6. TOP SET BASE TYPICAL (SEE FINISH SCHEDULE)
7. FIRE EXTINGUISHER IN SEMI-RECESSED CABINET
8. ELECTRICAL PANEL +48" TO HANDLE
9. HORN/STROBE (SEE ELECTRICAL PLAN)
10. THERMOSTAT (SEE MECHANICAL PLAN)
11. MODULAR JOINT
12. INTERIOR FINISH SEAM

INTERIOR ELEVATIONS

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

A

PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR incorporated

AURORA DESIGNS | MODTECH Designs | MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
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PROJECT NAME:

24x40
GYM VENTURA
FIRE DEPARTMENT
2269 ALESSANDRO DR, VENTURA, CA 93001

SHEET TITLE:

INTERIOR ELEVATIONS
24'X40'

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:
DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER

A4.1

SPEC NO. 2025-010 DWG. NO. 2025-D-010

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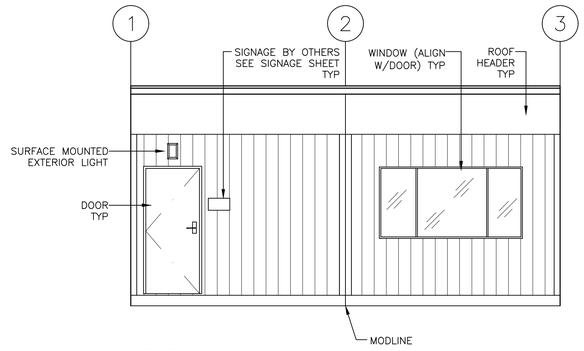
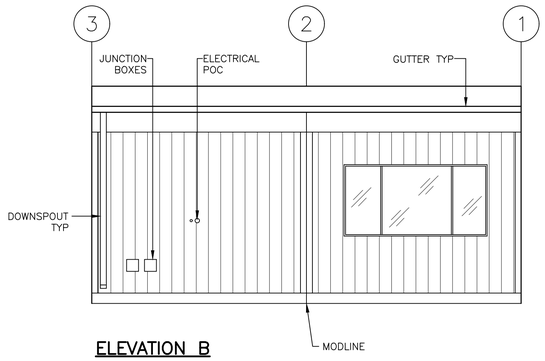
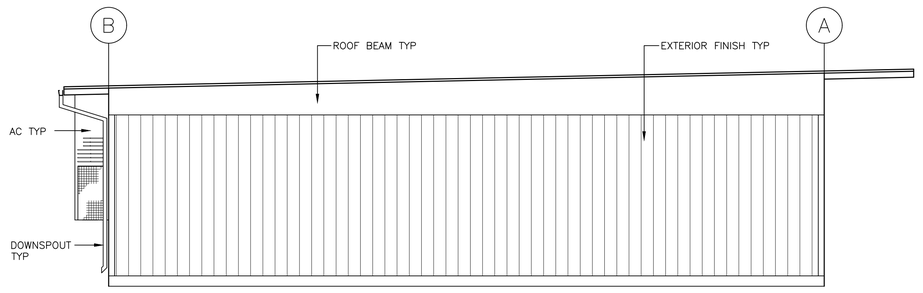


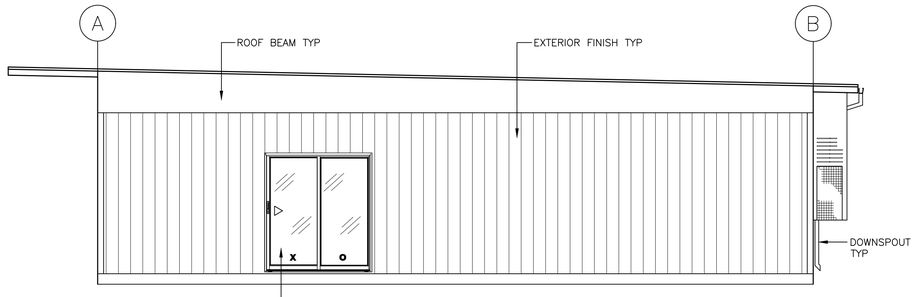
ELEVATION A



ELEVATION B



ELEVATION C



ELEVATION D

EXTERIOR ELEVATIONS (MONO SLOPE)

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

- RAMP AND LANDING NOT SHOWN FOR CLARITY

PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR incorporated

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CONTRACTORS LICENSE #837357

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PROJECT NAME:

24x40
GYM VENTURA
FIRE DEPARTMENT
2269 ALESSANDRO DR, VENTURA, CA 93001

SHEET TITLE:

EXTERIOR ELEVATIONS
WOOD SIDING
24'x40'

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:
DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER

A5.1

SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

POWER PANEL E

Rated Amps: 125A — 125A MAIN BKR — Volts: 120/208
Interior: X — Phase / Wire: 3 PHASE/4 WIRE
Exterior: — Flush: X
NEMA Rated: 1R — Surface:

Description	Load	Ckt Bkr			Ckt Bkr	Load	Description
5 TON RXTA60AAVJU	3598	2 / 35	1	2	1 / 20	180	EXT. RECEPT/GFCI/WP
			3	4	1 / 20	1080	RECEPT
			5	6	1 / 20	900	RECEPT
			7	8	1 / 20	414	INT LIGHTS
RECEPT for TV	142	1 / 20	9	10	1 / 20	5	EXT LIGHTS
CAMERAS	180	1 / 20	11	12	1 / 20	142	RECEPT for TV
			13	14			
			15	16			
TREADMILL	1500	1 / 20	17	18	1 / 20	1500	RECEPT for TV
			19	20			
			21	22			
			23	24			

4,192 Watts + 4,824 Watts + 4,222 Watts = 3,310 25% Watts + 360 Voltage = 46 A Amps Per Phase

(L) LABEL AND LOCK ON DEVICE

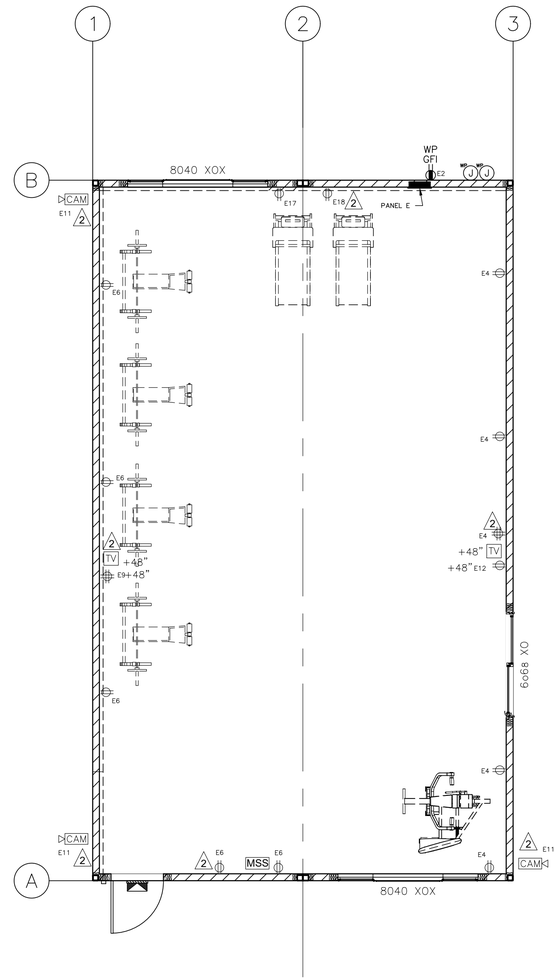
* DEDICATED CIRCUIT (RED, LOCKING) LABELED PER NFPA 72:10.6.5.2

CAM J BOX FOR CAMERA W/SINGLE DEVICE COVER W/ BLANK PLATE 4SQ BOX W/3/4" CONDUIT TO ATTIC W/ PULLSTRING

2 CAT6E CABLE WALL BOX & PLATE WITH RJ45 JACK-(2) PORTS

MSS MESSAGE SIGN BOARD (USDD)

REAR



LEFT **RIGHT**

FRONT

S/N 2BE3265 S/N 2BE3266

PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR incorporated

AURORA DESIGNS MODTECH Designs MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

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PROJECT NAME:
24x40
GYM VENTURA
FIRE DEPARTMENT
2269 ALESSANDRO DR, VENTURA, CA 93001

SHEET TITLE:
ELECTRICAL PLAN
POWER
24'X40'

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — 5 May 2026 DATE

CITY ENGINEER — 5/7/2026 DATE

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
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2 -
3 -
4 -

PROJECT NO.:
DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER
E1.0
SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

POWER PANEL E

Rated Amps: 125A
Interior: X
Exterior:
NEMA Rated: 1R

125A MAIN BKR

Volts: 120/208
Phase / Wire: 3 PHASE/4 WIRE
Flush:
Surface: X

Description	Load	Ckt Bkr			Ckt Bkr	Load	Description
5 TON RXTA60AAVJU	3598	2 / 35	1	2	1 / 20	180	EXT. RECEPT/GFCI/WP
			3	4	1 / 20	1080	RECEPT
			5	6	1 / 20	900	RECEPT
			7	8	1 / 20	414	INT LIGHTS
RECEPT for TV	142	1 / 20	9	10	1 / 20	5	EXT LIGHTS
CAMERAS	180	1 / 20	11	12	1 / 20	142	RECEPT for TV
			13	14			
			15	16			
TREADMILL	1500	1 / 20	17	18	1 / 20	1500	RECEPT for TV
			19	20			
			21	22			
			23	24			

4,192 Watts + 4,824 Watts + 4,222 Watts = 3,310 25% Watts + 360 Voltage = 46 A Amps Per Phase

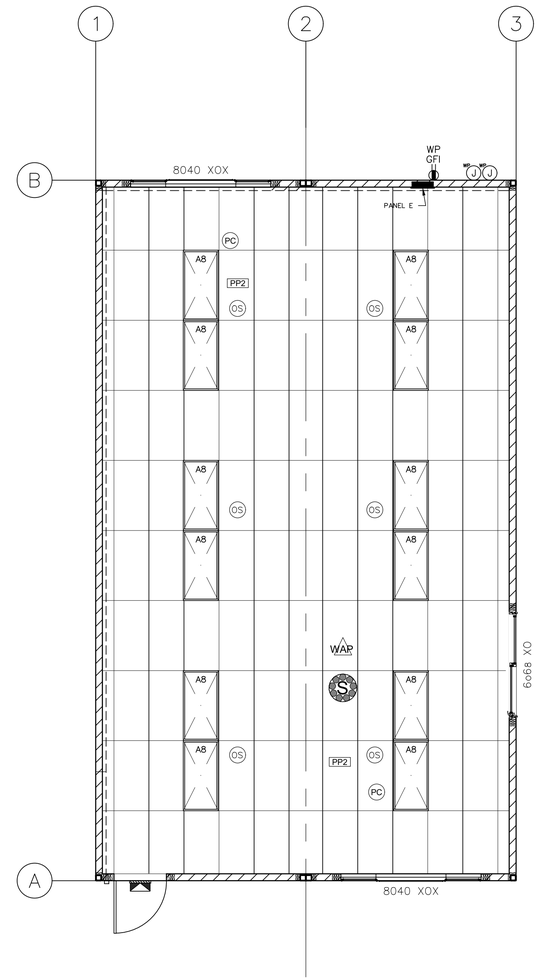
(L) LABEL AND LOCK ON DEVICE

* DEDICATED CIRCUIT (RED, LOCKING) LABELED PER NFPA 72:10.6.5.2

(S) LED ALERTING SPEAKER (USDD DISPATCH ALERTING)

WAP CAT6E CABLE AND RJ45 PLUG FOR CEILING MOUNTED WIRELESS ACCESS POINT

REAR



LEFT

RIGHT

FRONT

E10

S/N 2BE3265

S/N 2BE3266

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GLOBAL MODULAR incorporated

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PROJECT NAME:

24x40
GYM VENTURA
FIRE DEPARTMENT
2269 ALESSANDRO DR, VENTURA, CA 93001

SHEET TITLE:

ELECTRICAL PLAN
LIGHTING
24'X40'

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026

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MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

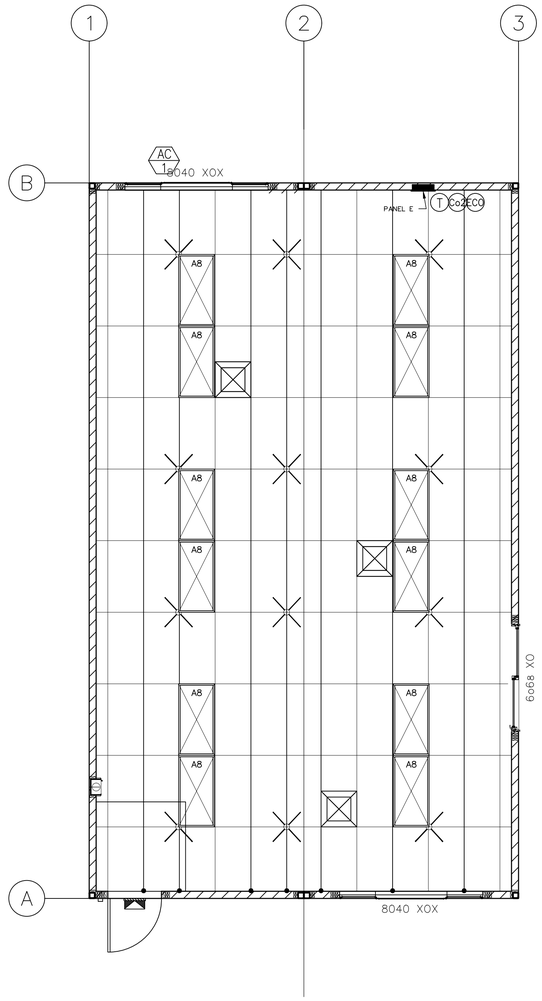
ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:
DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER
E2.0
SPEC NO. 2025-010 DWG. NO. 2025-D-010

REAR



LEFT

RIGHT

FRONT

AIR CONDITIONING PLAN VIEW

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

HVAC:

MARVAIR: HVPA42HPA050BU WALL MOUNTED HEAT PUMP
40,000 BTUH COOLING, SEER= 13.00
36,000 BTUH HEATING, HSPF= 8.00
1360 CFM @ .20" SP, WT= 590 LBS
208/230V-1PH-60CY, MAX FLA= 50.1 AMPS
MOTORIZED DAMPER

PROJECT SPECIFIC STATE AGENCY APPROVAL

GLOBAL MODULAR incorporated
AURORA DESIGNS MODTECH Designs MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
ATWATER, CA 95301
PHONE: (209) 676-8029
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WEBSITE: WWW.GDVI.NET

SOUTHERN CALIFORNIA DIVISON
1860 CHICAGO AVE., SUITE I-7
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PROJECT NAME:
24x40
GYM VENTURA
FIRE DEPARTMENT
2269 ALESSANDRO DR, VENTURA, CA 93001

SHEET TITLE:
MECHANICAL PLAN
WALL MOUNT
24'X40'

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER — DATE: 5 May 2026

CITY ENGINEER — DATE: 5/7/2026

MFR. STRUCTURAL ENGINEER OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:
DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER
M1.1
SPEC NO. 2025-010 DWG. NO. 2025-D-010

FOR REFERENCE ONLY

CONSTRUCTION NOTES:

UNLESS OTHERWISE SPECIFIED ON THE WORKING DRAWING WHICH FORMS A PART OF THE SPECIFICATION, THE CONTRACTOR/DEVELOPER SHALL FURNISH THE FOLLOWING ITEMS AT NO COST TO THE EDISON COMPANY.

SOUTHERN CALIFORNIA EDISON COMPANY HAS ATTEMPTED TO CORRECTLY SHOW ALL EXISTING UTILITIES AND SUBSTRUCTURES IN THE VICINITY OF THE WORK, BUT DOES NOT GUARANTEE THERE ARE NO OTHER SUBSTRUCTURES IN THE AREA. FAILURE OF SCE TO SHOW ALL SUBSTRUCTURES IN THEIR CORRECT LOCATION WILL NOT BE A BASIS FOR A CLAIM FOR EXTRA WORK, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO SUBSTRUCTURES WHETHER SHOWN OR NOT.

1. FOR GENERAL SPECIFICATIONS SEE UGS GI 001.

2. CONDUIT:
   a. MINIMUM COVER IN STREET OR PARKWAY IS 30" BELOW GUTTER GRADE, UNLESS NOTED OTHERWISE.
   b. MINIMUM COVER ON PRIVATE PROPERTY IS 30" BELOW FINISHED GRADE, UNLESS NOTED OTHERWISE.
   c. CONTRACTOR IS TO FURNISH AND INSTALL APPROVED CONDUIT TO EDISON SPECIFICATIONS PER UGS CD 100.1, 110 AND 120.
   d. FOR THE TYPE OF CONDUIT FOR THIS JOB, SEE UGS CD 110.1.
   e. INSTALL ALL RISERS PER UGS CD 160, 161, 162 AND 170.
   f. CAP ALL MAINLINE CONDUITS PER UGS CD 148 AND SERVICE CONDUITS PER UGS CD 150.
   g. INSTALL BLANK CONDUIT PLUGS IN ALL CONDUITS TERMINATING INTO VAULTS, MANHOLE'S, PMH'S, SOE'S & ALL CAP LOCATIONS, PER UGS CD 180.1 & UGS CD 180.2
   h. INSTALL PULL ROPE IN ALL CONDUIT RUNS. PULL ROPE TO BE AT LEAST 3/8" POLYPROPYLENE ROPE, BRAIDED OR TWISTED. FOR SPECIFICATIONS, APPROVED MAKES, AND SUPPLIERS, SEE UGS GI 040.
   i. ALL CONDUIT MUST BE MANDRELED WITH THE APPROVED MANDREL UGS CD 197.

3. CONDUIT RADIUS REQUIREMENTS:
   a. THE MINIMUM RADIUS FOR BENDS ARE:
      36" FOR CONDUITS 3" IN DIAMETER OR SMALLER
      48" FOR CONDUITS 4" AND 5" IN DIAMETER
      60" FOR 6" DIAMETER CONDUIT
   b. THE MINIMUM RADIUS FOR ALL SWEEPS OF ALL MAINLINE CONDUITS IS 12'-6" (UNLESS NOTED OTHERWISE).

4. EXCAVATION AND BACKFILL:
   a. WORK AREA SHALL BE CLEARED AND ROUGH GRADED TO WITHIN FOUR INCHES OF FINAL GRADE PRIOR TO INSTALLATION OF EDISON CONDUIT OR STRUCTURES.
   b. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH THE CALIFORNIA STATE CONSTRUCTION SAFETY ORDERS (WHEN APPLICABLE), EDISON SPECIFICATIONS, AND ALL GOVERNING LOCAL ORDINANCES.
   c. EACH TRENCH TO BE A UNIFORM DEPTH BELOW FINAL GRADE PRIOR TO INSTALLATION OF EDISON CONDUIT OR STRUCTURES.
   d. BACKFILL SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL EXCAVATIONS AND SHALL INCLUDE CRUSHED ROCK, CONCRETE, AND/OR IMPORTED BACKFILL, WHEN REQUIRED.
   e. BACKFILL WITH A MINIMUM OF ONE SACK PER YARD SAND CEMENT SLURRY AROUND AND OVER VAULTS AND MANHOLES PER UGS GI 030, SECTION 6.4 AND AROUND PMH'S WITHIN ONE FOOT OF FINISHED GRADE, PER UGS SS 590.1.
   f. BACKFILL, PER EDISON SPECIFICATIONS, SHALL IMMEDIATELY FOLLOW CONDUIT OR SUBSTRUCTURE INSTALLATION. AT NO TIME SHALL CONDUIT BE LEFT EXPOSED OVER 24 HOURS.
   g. NO ROCKS ARE ALLOWED WITHIN 12 INCHES OF DIRECT-BURIED CABLES OR ANY CONDUIT WITHOUT CONCRETE ENCASEMENT. NATIVE BACKFILL CAPABLE OF PASSING THROUGH A ONE-HALF INCH MESH SCREEN SHALL BE CONSIDERED TO BE "ROCK FREE". IF EXISTING BACKFILL DOES NOT PASS THROUGH A 1/2" SCREEN, PLACE IMPORTED SAND 3" BELOW AND 12" ABOVE EDISON CABLES. AFTER THIS POINT, NO ROCKS LARGER THAN 12" DIAMETER ARE PERMITTED.
   h. ALL BACKFILL SHALL BE COMPACTED TO MEET OR EXCEED LOCAL ORDINANCES OR OTHER REQUIREMENTS. IT SHALL BE PLACED IN A MANNER THAT WILL NOT DAMAGE THE CONDUIT OR SUBSTRUCTURE OR ALLOW FUTURE SUBSIDENCE OF THE TRENCH OR STRUCTURES.

5. PAVING:
   REPAVING, WHERE REQUIRED, SHALL BE PLACED IN SUCH A MANNER THAT INTERFERENCE WITH TRAFFIC, INCLUDING PEDESTRIAN TRAFFIC, WILL BE KEPT TO A MINIMUM. THE CONTRACTOR SHALL ESTABLISH A PROGRAM OF REPAVING ACCEPTABLE TO THE MUNICIPALITY, COUNTY, OR OTHER AUTHORITY HAVING JURISDICTION AND WHICH IS ACCEPTABLE TO EDISON.

6. STRUCTURES:
   a. ALL SUBSTRUCTURES SHALL BE CONSTRUCTED OR INSTALLED TO EDISON SPECIFICATIONS.
   b. INSTALL PROTECTION BARRIERS PER UGS MS 830 WHEN REQUIRED IN AREAS EXPOSED TO TRAFFIC, PER EDISON INSPECTOR.
   c. ALL CONDUIT LINES AND CONCRETE FLOORED SUBSTRUCTURES SHALL BE WATER TIGHT.
   d. ALL GROUNDING MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

7. RETAINING WALLS:
   WHEN REQUIRED, RETAINING WALLS SHALL BE PROVIDED BY THE DEVELOPER. WALLS ARE REQUIRED WHEREVER GRADE RISES MORE THAN 18 INCHES ABOVE THE STRUCTURE OR 24" ABOVE THE PAD SURFACE AT A DISTANCE OF 5 FEET FROM THE SAME, OR IN AREAS SUBJECT TO EROSION. DESIGN AND INSTALLATION MUST COMPLY WITH LOCAL BUILDING ORDINANCES. REFER TO EDISON INSPECTOR FOR TYPICAL SPACE REQUIREMENTS.

8. PERMITS:
   ALL PERMITS NECESSARY FOR EXCAVATION SHALL BE PROVIDED BY THE CONTRACTOR/DEVELOPER.

9. ACCESS:
   HEAVY TRUCK ACCESS SHALL BE MAINTAINED TO EQUIPMENT LOCATIONS. STRUCTURES MUST BE CLEAR OF ALL APPURTENANCES THAT WOULD OBSTRUCT THE LOADING OR UNLOADING OF EQUIPMENT.

10. SERVICES:
   a. METERS AND SERVICES SHALL COMPLY WITH EDISON ELECTRICAL SERVICES REQUIREMENTS.
   b. WIRING MUST BE IN ACCORDANCE WITH APPLICABLE LOCAL ORDINANCES AND APPROVED BY LOCAL INSPECTION AUTHORITIES.

11. LOCATION:
   a. THE LOCATION OF EXCAVATIONS AND STRUCTURES FOR EDISON SHALL BE AS SHOWN ON THE WORKING DRAWING. NO DEVIATION FROM THE PLANNED LOCATIONS WILL BE PERMITTED UNLESS APPROVED BY THE EDISON INSPECTOR. SEE UGS GI 001, SECTION 2.2.
   b. ACTUAL LOCATION OF OBSTRUCTIONS, STORM DRAINS, AND/OR OTHER FOREIGN UTILITIES TO BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE UGS GI 001, SECTION 2.3.

12. CONTRACTOR IS TO VERIFY LOCATION AND WIDTHS OF ALL SIDEWALKS AND DRIVEWAYS PRIOR TO STREET LIGHT INSTALLATION. SEE UGS CD 175.1, UGS CD 175.2 AND UGS CD 175.3.

13. SURVEY:
   SURVEYING OF STREET IMPROVEMENTS, PROPERTY CORNERS, LOT LINES, FINISHED GRADE, ETC., NECESSARY FOR THE INSTALLATION OF UNDERGROUND FACILITIES MUST BE COMPLETED AND MARKERS OR STAKES PLACED PRIOR TO THE START OF THE INSTALLATION. IN ADDITION, DEVELOPER SHALL MAINTAIN THE MARKERS DURING THE INSTALLATION AND INSPECTION BY EDISON. GRADE AND PROPERTY LINE STAKES MUST SHOW ANY OFFSET MEASUREMENTS.

14. COORDINATION AND SUPERVISION:
   THE DEVELOPER SHALL PROVIDE SUPERVISION OVER AND COORDINATION AMONG THE VARIOUS CONTRACTORS WORKING WITHIN THE DEVELOPMENT IN ORDER TO PREVENT DAMAGE TO EDISON FACILITIES. HE IS RESPONSIBLE FOR THE COST OF REPAIRS, REPLACEMENT, RELOCATION, OR OTHER CORRECTIONS TO EDISON FACILITIES MADE NECESSARY BY HIS FAILURE TO PROVIDE SUPERVISION OR TO OTHERWISE COMPLY WITH THESE SPECIFICATIONS.

15. TELEPHONE AND OTHER UTILITY REQUIREMENTS:
   THE DRAWING PREPARED FOR THIS JOB MAY ALSO COVER THE FACILITIES TO BE INSTALLED FOR THE TELEPHONE COMPANY AND/OR OTHER UTILITY. ANY QUESTIONS CONCERNING DETAILS OF THEIR INSTALLATION SHOULD BE REFERRED TO THE COMPANY CONCERNED.

16. OWNERSHIP:
   DEVELOPER IS TO DEED TO THE EDISON COMPANY ALL STRUCTURES SHOWN HEREON EXCEPT THOSE SHOWN AS CUSTOMER OWNED.

17. WARRANTY:
   APPLICANTS EXPRESSLY REPRESENT AND WARRANT THAT ALL WORK PERFORMED AND ALL MATERIAL USED IN MEETING APPLICANTS' OBLIGATIONS HEREIN ARE FREE FROM DEFECTS IN WORKMANSHIP AND ARE IN CONFORMITY WITH SOUTHERN CALIFORNIA EDISON COMPANY'S REQUIREMENTS. THIS WARRANTY SHALL COMMENCE UPON RECEIPT BY APPLICANTS OF COMPANY'S FINAL ACCEPTANCE AND SHALL EXPIRE ONE YEAR FROM THAT DATE. APPLICANTS AGREE TO PROMPTLY CORRECT TO THE COMPANY'S SATISFACTION AND THAT OF ANY GOVERNMENTAL AGENCY HAVING JURISDICTION AND AT APPLICANT'S EXPENSE ANY BREACH OF THIS WARRANTY WHICH MAY BECOME APPARENT THROUGH INSPECTION OR OPERATION OF UNDERGROUND ELECTRIC SYSTEM BY COMPANY DURING THIS WARRANTY PERIOD.

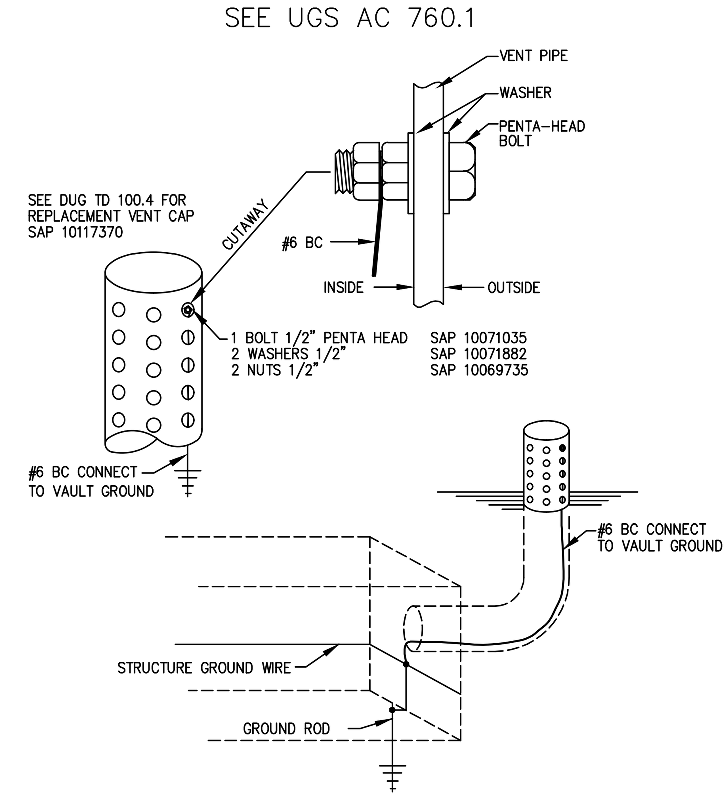
18. INSPECTION:
   INSPECTION IS REQUIRED DURING THE CONSTRUCTION PERIOD. A 48 HOUR ADVANCE NOTICE OF INTENT TO START CONSTRUCTION IS REQUIRED FROM THE CONTRACTOR TO THE SOUTHERN CALIFORNIA EDISON COMPANY. STANDARDS OF EDISON CONSTRUCTION REQUIREMENTS ARE AVAILABLE UPON REQUEST.

DUCT AND STRUCTURE INSPECTOR: PHONE:

CABLING CONSTRUCTION COORDINATOR: PHONE:

D05: 03/22/24

GROUND CONNECTION INSTALLATION IN A PVC VENT
SEE UGS AC 760.1



NOTE:
TO ASSIST IN UNDERGROUND STRUCTURE LOCATING FROM THE SURFACE, INSTALL A #6 BARE COPPER WIRE FROM INSIDE THE VENT PIPE TO THE STRUCTURE GROUND SYSTEM. THIS INSTALLATION WILL ALLOW A SINGLE PERSON CREW TO TIE INTO THE SYSTEM GROUND AND LOCATE THE FACILITIES UNAIDED. THE INSTALLATION SHOULD BE MADE DURING NEW CONSTRUCTION, ADDED TO THE APPROPRIATE STRUCTURE DURING THE ROUTINE MAINTENANCE CYCLE, OR AS THE NEED ARISES BY REQUEST FOR ASSISTANCE FROM THE CONTRACT CABLE LOCATING COMPANY.

D37: REV. 10/26/20

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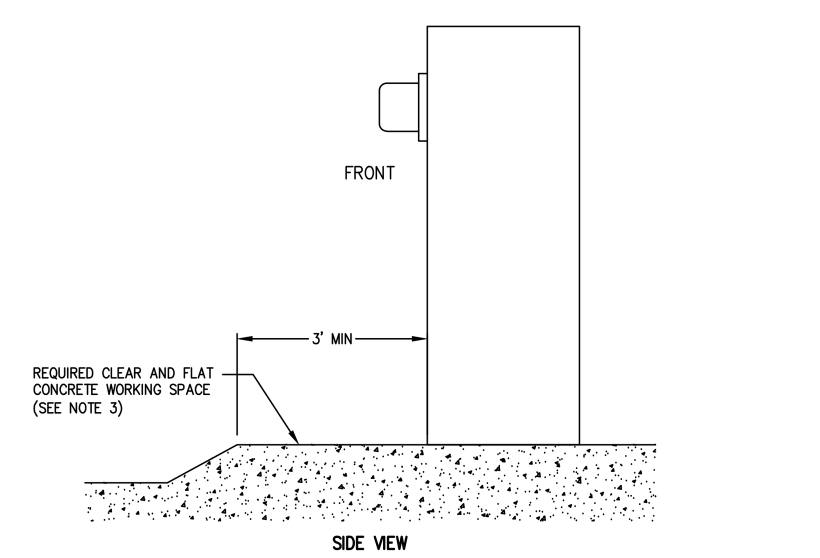
WORKING SPACE AND CLEARANCE REQUIREMENTS 0-600V (SIDE VIEW)
UNDERGROUND SERVICE CONNECTIONS 0-600 VOLTS
SEE ESR FIGURE 3-2



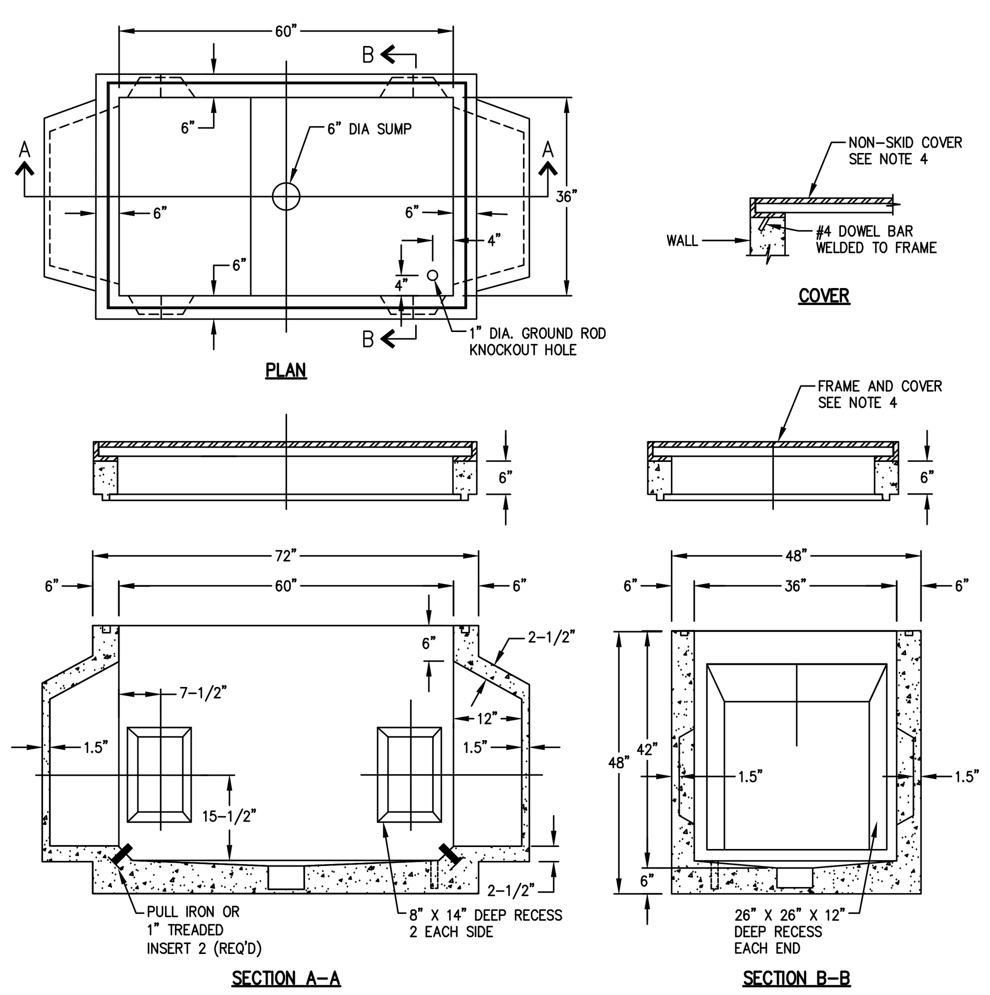
NOTES:
1. A MINIMUM OF 3 FEET OF CLEAR, LEVEL CONCRETE WORKSPACE IS REQUIRED IN FRONT OF ALL TERMINATION, METERING, AND SERVICE EQUIPMENT.
2. SEE ESR-5 FOR METER-MOUNTING HEIGHT REQUIREMENTS. METER-MOUNTING HEIGHT WILL BE MEASURED FROM THE STANDING AND WORKING SPACE TO THE CENTERLINE OF THE METER(S).
3. WHEN SERVICE EQUIPMENT IS INSTALLED ON AN ELEVATED PORTION OF THE FLOOR/GROUND, OR HOUSEKEEEPING PAD, THE PAD SHALL BE FLUSH WITH THE BOTTOM OF THE SERVICE EQUIPMENT AND EXTEND A MINIMUM OF THREE FEET. THIS IS MEASURED FROM THE FRONT OF THE SERVICE EQUIPMENT OR THE OUTER DOOR(S) OF THE SWITCHBOARD NEMA 3R ENCLOSURE WHEN INSTALLED. IN NO CASE SHALL THE MAXIMUM METER HEIGHT OF 6'-3" BE EXCEEDED.
4. TO MAINTAIN A SAFE, CLEAR, AND LEVEL CONCRETE WORKING AREA IN FRONT OF NEW OR EXISTING METER AND SERVICE EQUIPMENT, A CONCRETE SLAB, ACCEPTABLE TO THE COMPANY, MUST BE USED.
5. FOR SWITCHBOARDS ABOVE 600V, FIVE-FOOT MINIMUM OF CLEAR AND LEVEL CONCRETE STANDING AND WORKING SPACE IS REQUIRED IN THE FRONT, REAR, AND SIDE OF ANY SECTION WHERE SUCH PART SUPPORTS OR PROVIDES ACCESS TO METERING, TESTING EQUIPMENT, OR SERVICE CABLE TERMINATION SECTIONS.

16.11 PROTECTIVE BARRIERS (POSTS/BOLLARDS) FOR SERVICE EQUIPMENT
BARRIER POSTS/BOLLARDS ARE USED TO PROTECT THE METER AND SERVICE EQUIPMENT, AS WELL AS PERSONNEL, FROM VEHICULAR CONTACT, AND TO PROHIBIT ENCROACHMENT INTO THE WORKING SPACE (FOR EXAMPLE, LOADING ZONES, DRIVEWAYS, CONGESTED AREAS, OFF STREET PARKING, AND SO ON).

THE CUSTOMER SHALL PROVIDE AND INSTALL "NON-REMOVABLE" BARRIERS (POSTS/BOLLARDS) TO PROVIDE THE PROPER SAFE WORKING CLEARANCES WHERE THE WORKSPACE IS EXPOSED TO VEHICULAR OR OTHER HAZARDOUS CONDITIONS. METERS WILL NOT BE SET UNTIL THE BARRIERS HAVE BEEN INSTALLED. METER CABINET DOORS MUST OPEN A MINIMUM OF 90 DEGREES AND NOT CONFLICT WITH BARRIER POSTS. A MINIMUM CLEARANCE OF 3-FEET IS REQUIRED FROM THE FACE OF THE SWITCH GEAR TO THE BOLLARD/POST.

D99: 11/14/25

PULL BOX 3' X 5' PRECAST CONCRETE
SEE UGS HP 225



NOTE(S):
1. STRUCTURAL DESIGN CRITERIA:
   • H20-S BRIDGE LOADING PER ASTM C857
   • COVER DESIGN SHALL MEET ASTM C1802, LOAD LEVEL 6 (FULL TRAFFIC).
2. CONCRETE:
   CONCRETE SHALL BE CLASS "A" WITH 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI (MINIMUM). SLIGHT TAPER (3/4" IN DEPTH OF PULL BOX) AND 1" CHAMFER ON ALL INSIDE CORNERS PERMITTED FOR EASE OF FORMING.
3. INSTALLATION:
   PULL BOX SHALL BE PLACED ON 6" (MINIMUM) COMPACTED ROCK OR SAND BASE TO ENSURE UNIFORM DISTRIBUTION OF SOIL PRESSURE IN FLOOR. MINIMUM EXCAVATION FOR PULL BOX SHALL BE 52" X 97" X DEPTH TO SUIT JOB.
4. COVERS:
   SEE FC 615 AND FC 618 FOR PULL BOX COVERS. MINIMUM COVER COEFFICIENT OF FRICTION (COF) OF 0.70.
5. GRADE RINGS:
   INSTALLING CONTRACTOR SHALL PROVIDE GRADE RINGS (6" MINIMUM) AS NECESSARY IN ORDER TO MAINTAIN COVER OVER CONDUITS PER SCE SPECIFICATIONS OR PERMIT AGENCY SPECIFICATIONS, WHICHEVER IS GREATER.
6. PULL IRONS AND EYES:
   SEE AC 729 FOR PULL IRONS AND AC 720 FOR PULL EYES.
7. 2/0 GROUNDING REQUIRED.

D53C: 04/18/25

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	
CITY OF SAN BUENAVENTURA	
PRINCIPAL ENGINEER	DATE
CITY ENGINEER	5/7/2026 DATE

PAD FOR SURFACE-MOUNTED TRANSFORMER
POURED IN FIELD CONSTRUCTION AND PRECAST CONSTRUCTION (CONCRETE)
SEE UGS SS 504

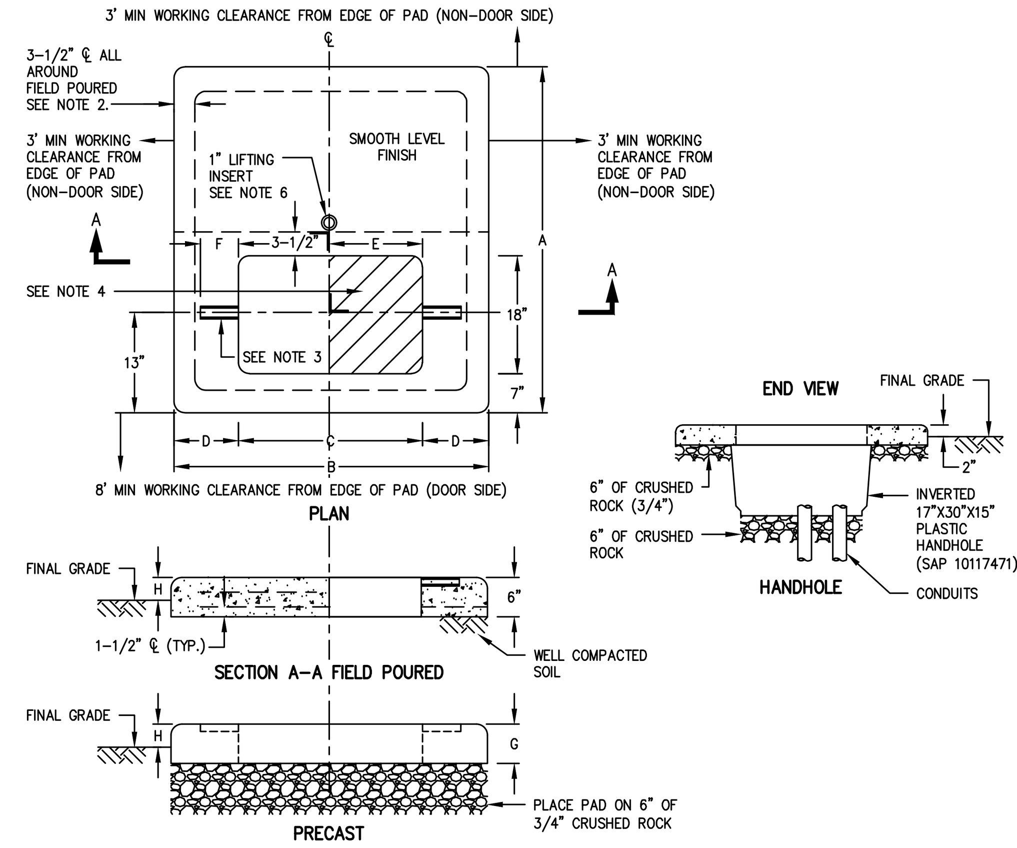


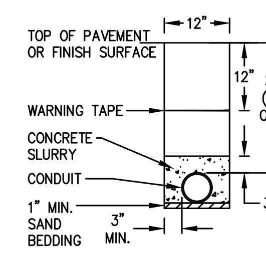
TABLE SS 504-1: SURFACE-MOUNTED TRANSFORMER PADS - DIMENSIONS

	TRANSFORMER	PAD DIMENSIONS (IN) A	B	C	D	E	F	G	H	WEIGHT (LB)	SAP
	1ø 25 KVA-167 KVA	54	48	26	11	12	6	4	2	750	10118012
FOR REFERENCE ONLY	3ø 75 KVA-150 KVA NO SWITCH	66	72	38	17	15	6	6	3	2,200	10118011 SEE NOTE 8
	3ø 75 KVA-500 KVA SW AND FUSE	72	94	50	22	22	14	6	3	3,200	10118013 SEE NOTE 8

NOTE(S):
1. CONCRETE TO BE 3,000 PSI (MINIMUM) AT 28 DAYS.
2. REINFORCING STEEL TO BE NO. 4 BARS INSTALLED IN A DOUBLE NET. PERIMETER BARS TO BE CONTINUOUS (8 INCH MINIMUM LAP OR WELD)
3. HOLD-DOWN BRACKETS TO BE P-3200 SERIES UNISTRUT (OR EQUAL).
4. PRIMARY CABLES MUST BE INSTALLED IN SHADED AREA OF DRAWING ABOVE AS FAR TO THE RIGHT AS POSSIBLE ON SINGLE PHASE TRANSFORMERS ONLY. ON THREE-PHASE TRANSFORMERS PRIMARY CABLES MUST BE INSTALLED IN THE UNSHADED AREA OF DRAWING ABOVE AS FAR LEFT AS POSSIBLE.
5. SEE AC 701 FOR PAD-MOUNTED TRANSFORMER/CAPACITOR GROUNDING REQUIREMENTS AND AC 703 FOR APPROVED GROUNDING MATERIALS.
6. 1-INCH LISTING INSERT TO BE LOCATED AT CENTER OF GRAVITY ON PRECAST PADS.
7. SEE SS 500 FOR APPROVED MANUFACTURERS.
8. THE THREE-PHASE TRANSFORMER SHALL ONLY BE USED ON A PAD WHEN FOUR OR FEWER SERVICES ARE TO BE INSTALLED. A SLAB BOX SHOULD BE USED WHEN MORE THAN FOUR SERVICES WILL BE INSTALLED.
9. USE A THIN LAYER OF REDI-CRETE (OR EQUIVALENT) FOR RODENT AND WEED CONTROL OR WHERE TRANSFORMER DOES NOT FULLY COVER OPENING IN PAD.
10. A 17" X 30" X 15" PLASTIC HANDHOLE (SAP 10117471) SHALL BE INVERTED AND INSTALLED UNDER THE CABLE OPENING OF THE PAD. THIS WILL PROVIDE ADEQUATE CABLE SLACK FOR OPERATION OF THE LOAD-BREAK ELBOWS ON SINGLE PHASE TRANSFORMERS ONLY.

D43: 03/26/25

TYPICAL CONDUIT BANK SECTION
SEE UGS CD 120



CONDUIT BANK DETAIL
1 CONDUIT
(NTS)

D72A: 11/14/25

LIST OF MATERIALS
[EDISON CO.]

SEE UGS SECTION INDEX
FOR REFERENCE DRAWINGS

NOTES:
1. FOOTAGE QUANTITIES ARE APPROXIMATE.
2. WHERE REFERENCE IS TO AN ITEM NOT DETAILED, SEE SEPARATE DESCRIPTION LIST.
3. THIS LIST PROVIDES A SUMMARY OF MAJOR ITEMS.

QTY.	UNIT	DESCRIPTION	SIZE	ITEM NO.	REF DWG.	REV. DATE

CONCRETE PRODUCTS
PRECAST CONCRETE ITEM COMPLETE WITH NECK, COVER AND INSERTS MAY BE OBTAINED FROM ANY OF THE FOLLOWING LISTED AND APPROVED MANUFACTURERS:

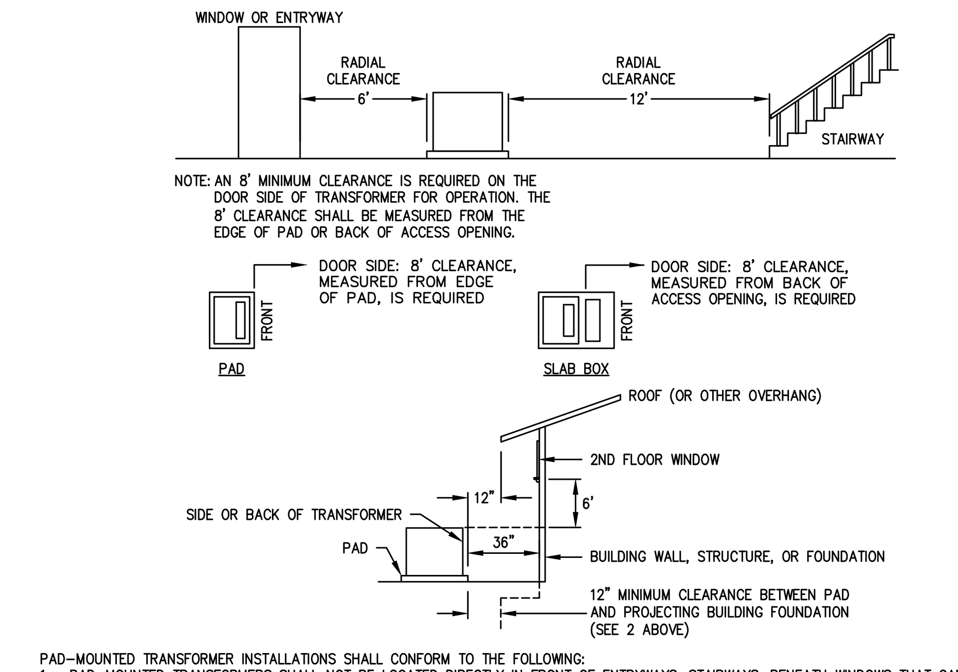
JENSEN PRECAST
14221 SAN BERNARDINO AVE
FONTANA, CA 92335
(909) 350-4111
(800) 257-6100

OLDCASTLE PRECAST
10650 HEMLOCK AVE,
FONTANA, CA 92337
(909) 428-3700
(800) 626-3860

FOR HANDHOLE AND PULLBOX MANUFACTURERS, SEE UGS HP 200.

D04A: 12/12/24

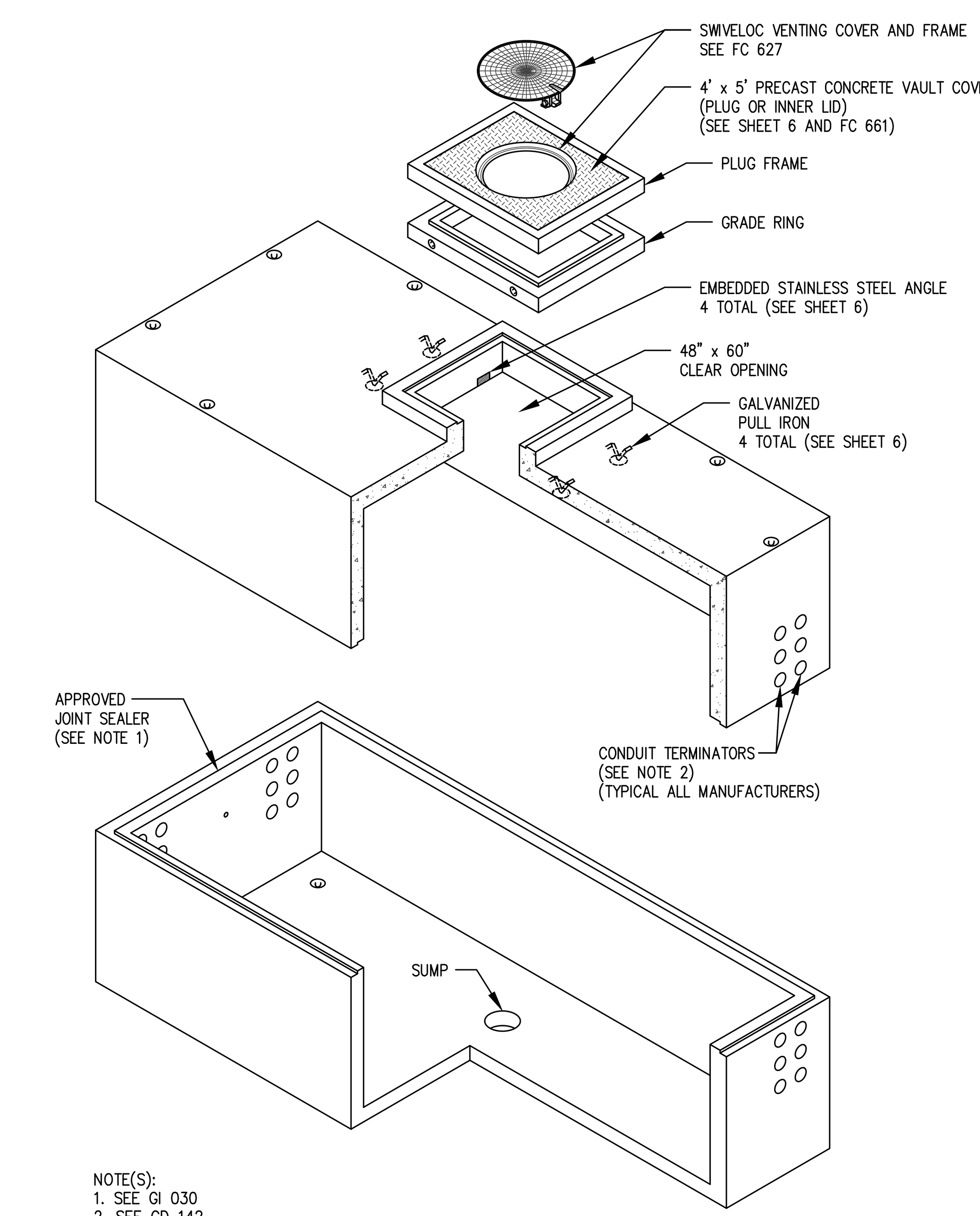
MINIMUM CLEARANCES FOR PADMOUNTED TRANSFORMERS
SEE DDS-3, 3-44



PAD-MOUNTED TRANSFORMER INSTALLATIONS SHALL CONFORM TO THE FOLLOWING:
1. PAD-MOUNTED TRANSFORMERS SHALL NOT BE LOCATED DIRECTLY IN FRONT OF ENTRYWAYS, STAIRWAYS, BENEATH WINDOWS THAT CAN BE OPENED, OR WHERE THEY WILL OBSTRUCT THE VISION OF VEHICULAR TRAFFIC.
2. PAD-MOUNTED TRANSFORMERS SHALL BE LOCATED AT LEAST THE MINIMUM DISTANCE, AS IDENTIFIED IN THE FIGURE ABOVE, AWAY FROM BUILDINGS OR OTHER STRUCTURES TO ENSURE ADEQUATE SPACE FOR OPERATING, TO MINIMIZE VIBRATION HUMS, AND TO MEET FIRE SAFETY REQUIREMENTS.
3. WHENEVER POSSIBLE, PLACE PAD-MOUNTED STRUCTURES AND EQUIPMENT AWAY FROM AREAS WITH FREQUENT IRRIGATION TO HELP PREVENT FUTURE CORROSION.
   INSTALL NEW STAINLESS STEEL PAD-MOUNTED EQUIPMENT ONLY IF EVERY EFFORT HAS BEEN MADE TO LOCATE THE PAD MOUNT AWAY FROM HIGH-CORROSION AREAS AND THE PAD MOUNT IS EXPECTED TO BE CHANGED OUT WITHIN 15 YEARS DUE TO CORROSION. CONTACT FE FOR APPROVAL.
   EXISTING MILD STEEL PAD-MOUNTED EQUIPMENT MAY BE UPGRADED TO STAINLESS STEEL IF THE EXISTING EQUIPMENT HAS FAILED DUE TO CORROSION WITHIN 15 YEARS OF INSTALLATION. CONTACT FE FOR APPROVAL.
   * NOTE: ALL PAD-MOUNTED TRANSFORMERS PURCHASED AFTER 2004 ARE DESIGNED WITH STAINLESS STEEL BOTTOMS.
4. A CLEAR PASSAGEWAY OF 12 FEET MINIMUM SHALL BE AVAILABLE AT ALL TIMES, IMMEDIATELY ADJACENT TO ONE SIDE OF THE TRANSFORMER TO PROVIDE AN ACCESSIBLE ROADWAY FOR TRANSFORMER MAINTENANCE. THIS PASSAGEWAY SHALL BE DESIGNED TO MEET H-20 (20-TON) CONSTRUCTION.
5. IF SCE HAS INSTALLED OR AGREES TO INSTALL, TRANSFORMERS AT LOCATIONS WHERE SCE CANNOT USE ITS STANDARD TRANSFORMER LIFTING EQUIPMENT, AND SPECIAL LIFTING FACILITIES ARE REQUIRED TO INSTALL OR REMOVE THE TRANSFORMERS ON THE CUSTOMER'S PREMISES, THE CUSTOMER SHALL, AT THEIR EXPENSE, (1) FURNISH, INSTALL, OWN, AND MAINTAIN PERMANENT LIFTING FACILITIES, AND BE RESPONSIBLE FOR LIFTING THE TRANSFORMER TO AND FROM ITS PERMANENT POSITION, OR (2) PROVIDE (OR PAY FOR) PORTABLE LIFTING FACILITIES ACCEPTABLE TO SCE FOR INSTALLING OR REMOVING THE TRANSFORMERS. RIGHTS-OF-WAY AND SPACE PROVISIONS SHALL BE PROVIDED BY APPLICANT SUCH THAT ACCESS AND REQUIRED CLEARANCES FROM ADJACENT STRUCTURES CAN BE MAINTAINED.
6. TRANSFORMER STRUCTURES WILL NORMALLY BE INSTALLED ONLY IN NONTRAFFIC AREAS. TRANSFORMER PROTECTION IS REQUIRED WHEN COMPANY EQUIPMENT IS EXPOSED TO TRAFFIC. THIS PROTECTION MAY BE IN THE FORM OF BARRIERS, BARRICADES, OR CURB. A CURB MUST HAVE A MINIMUM HEIGHT OF 6 INCHES AND BE AT LEAST 6 INCHES THICK AND ITS FRONT FACE LOCATED 60 INCHES MINIMUM FROM THE EQUIPMENT FOUNDATION.

D54: 03/22/24

PRECAST TUB-TYPE VAULTS WITH COVER RESTRAINTS
SEE UGS VA 410



NOTE(S):
1. SEE GI 030
2. SEE CD 142

D60: Rev. 06/08/20

CONNECTING TO EXISTING SCE STRUCTURES
- PER SCE REQUIREMENTS, CUSTOMERS ARE NOT ALLOWED TO ENTER, INTERCEPT OR TIE-IN TO EXISTING SCE FACILITIES; E.G. STRUCTURES, EQUIPMENT, MULTI-CONDUIT RUNS/BANKS, OR CONDUCTORS. THESE FACILITIES MAY BE ENERGIZED AND THE WORK WILL ONLY BE PERFORMED BY SCE. CONTACT THE APPROPRIATE SCE INSPECTOR TO SCHEDULE AN APPOINTMENT. CUSTOMERS MAY CONNECT TO AN EXISTING CONDUIT STUB WITHOUT A SCE INSPECTOR PRESENT.
- MULTI-CONDUIT RUNS/BANKS ARE RUNS OF CONDUIT IN CLOSE PROXIMITY TO EACH OTHER AND OTHER SCE FACILITIES. A CONDUIT STUB IS A SINGLE EMPTY CONDUIT STUB THAT IS NOT IN CLOSE PROXIMITY TO OTHER SCE OWNED FACILITIES. REFER TO THE WORK ORDER MAP FOR DETAILS.
- PER CPUC/SCE'S RULE 15 B.1.A AND RULE 16 D.1.A., THE CUSTOMER WILL PROVIDE ALL NECESSARY EXCAVATIONS (WITH THE EXCEPTION OF EXCAVATION UNDER PADS AND PRIMARY SPLICE BOXES), MATERIAL (INCLUDING CONDUIT AND STRUCTURES) AND ENCASEMENT, TO BE UTILIZED IN THE INTERCEPT/TIE-IN PROCESS.
- THE CUSTOMER MUST ADHERE TO ALL APPLICABLE CAL-OSHA, LOCAL, CITY, STATE AND FEDERAL REGULATIONS, (INCLUDING, BUT NOT LIMITED TO, ALL NECESSARY SHORING AND TRAFFIC CONTROL IN PLACE TO PERFORM THE INTERCEPT/TIE-IN WORK BY SCE'S UNDERGROUND CIVIL CONTRACTOR(S)).
- INTERCEPT/TIE-IN WORK MUST BE COORDINATED WITH SCE'S CIVIL CONTRACTORS THROUGH THE DIVISION INSPECTOR/P-SPEC TO LIMIT EXPOSURE OF EXCAVATION(S). CUSTOMER IS RESPONSIBLE FOR SECURING EXCAVATION(S).

D08: 12/12/24

VAULT/MANHOLE
RESTRAINT SYSTEM INSTALLED

☐ NO ENTRY	NO ENTRY
☐ EM3	EJ EM3 COVER & RESTRAINT KIT
☐ SWIVELLOC	NEENAH SWIVELOC/RESTRAINT KIT
☐ SQUARE PLATE SWIVELOC	NEENAH SWIVELOC COVER BEAM RES

D17: 03/22/24

WHERE CONDUITS ARE PICKED UP OR INTERCEPTED, CONDUIT SHALL BE MANDRELLED AND PULL ROPE INSTALLED FROM TERMINAL TO TERMINAL.

D07: 03/22/24

UNDERGROUND SERVICE ALERT
Contact USA
Dial 811 or 800-422-4133
www.digalert.org/contact
FOR UNDERGROUND LOCATING
TWO WORKING DAYS BEFORE YOU DIG

D16: 03/22/24

DUCT AND STRUCTURE INSPECTOR
NAME:
PHONE:
CABLING CONSTRUCTION COORDINATOR
NAME:
PHONE:

D48: 03/22/24

TIE-IN MADE THROUGH SIDE WALL OF STRUCTURE
(VAULT, MANHOLE, PME, SOE/CST, BURD, SLAB BOX, PULL BOX, PMH)
THE CUSTOMER IS RESPONSIBLE TO TRENCH TO THE STRUCTURE ENTRANCE POINT AND BRING THE CONDUIT TO WITHIN 5' OF THE STRUCTURE BEING ENTERED. THE CUSTOMER IS TO PROVIDE SLIP COUPLING AND CONDUIT.

D09: 03/22/24

CONDUIT RADIUS REQUIREMENTS:
A: THE MINIMUM RADIUS FOR BENDS ARE:
   36" FOR CONDUITS 3" IN DIAMETER OR SMALLER
   48" FOR CONDUITS 4" AND 5" IN DIAMETER
   60" FOR 6" DIAMETER CONDUIT
B: THE MINIMUM RADIUS FOR SWEEPS ARE:
   36" FOR CONDUITS 3" IN DIAMETER OR SMALLER
   12'-6" FOR CONDUITS 4" IN DIAMETER AND LARGER, UNLESS OTHERWISE NOTED.

D85: 03/22/24

WARNING
THE EXCAVATOR MUST TAKE ALL STEPS NECESSARY TO AVOID CONTACT WITH UNDERGROUND FACILITIES WHICH MAY RESULT IN INJURY TO PERSONS OR DAMAGE TO FACILITIES IN THE AREA. THE INDICATED LOCATIONS OF EDISON UNDERGROUND FACILITIES, AS PROVIDED, ARE BELIEVED TO BE ACCURATE, HOWEVER, THE FINAL DETERMINATION OF EXACT LOCATIONS AND THE COST OF REPAIR TO DAMAGED FACILITIES IS THE RESPONSIBILITY OF THE EXCAVATOR.

D13: 03/22/24

WARNING
THE EXCAVATOR MUST TAKE ALL STEPS NECESSARY TO AVOID CONTACT WITH UNDERGROUND FACILITIES WHICH MAY RESULT IN INJURY TO PERSONS OR DAMAGE TO FACILITIES IN THE AREA. THE INDICATED LOCATIONS OF EDISON UNDERGROUND FACILITIES, AS PROVIDED, ARE BELIEVED TO BE ACCURATE, HOWEVER, THE FINAL DETERMINATION OF EXACT LOCATIONS AND THE COST OF REPAIR TO DAMAGED FACILITIES IS THE RESPONSIBILITY OF THE EXCAVATOR.

D13: 03/22/24

THIS PLAN APPROVED AS TO LOCATION
AND TYPE OF ELECTRIC SUBSTRUCTURES
DEVELOPER: City of San Buenaventura, Public Works
ATTN: Greg Knudson, Principal Civil Engineer
ADDRESS: 501 Poli Street, Room 120
Ventura, CA
TELEPHONE: 805-654-7830
FAX:

DWG./REV.	DEVELOPER'S SIGNATURE	DATE
ORIGINAL		7 April 2026
REV.		
REV.		
REV.		

CHANGES IN THESE PLANS WILL REQUIRE AN ADDITIONAL 3 TO 4 WEEKS AND CUSTOMER WILL BE CHARGED IN ADVANCE FOR REQUESTED CHANGES.

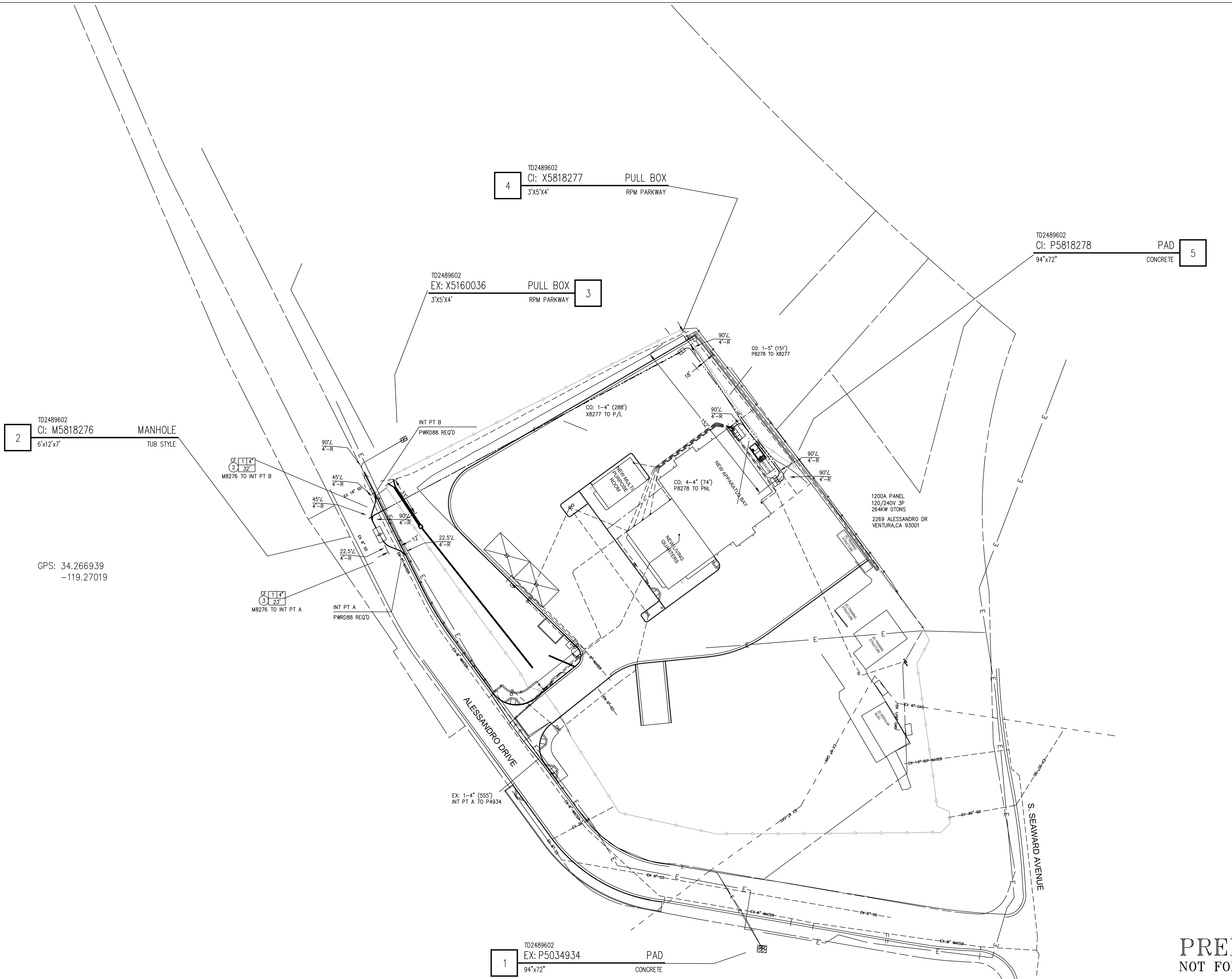
PRELIMINARY
NOT FOR CONSTRUCTION

DISTRICT 39 - VENTURA	PROJ. MGR. WALL, STEVEN D PHONE 8056547118	PLANNER WALL, STEVEN D PHONE 8056547118	DESIGNER RIFFEL, RILEY
PROJECT NO. 3166536 / SERVICE REQUEST 4044496	MSR NO.	PRODUCT-1 2489602-NEW METER & SERVICE	ASSOC DESGN
CIRCUIT / VOLTAGE RICARDO 16KV	GPS	PRODUCT-2	ASSOC DESGN
SUB / PG NO. SAN MIGUEL	CIRCUIT CODE	PRODUCT-3	ASSOC DESGN
INVENTORY MAP 038-021C-8	J.P.A. NO.	PROPOSED CONSTRUCTION (LOCATION) 2269 ALESSANDRO DR VENTURA CA 93001	

TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #
P	3/17/26		S.WALL	R.RIFFEL	24687

Southern California Edison Company

SHEET 1 OF 2 — DESIGN\DRWG NO. 1908055_0.01



PROJECT REQUIREMENTS (Y/N)

EDISON EASEMENT REQUIRED	N
PWRD 88 REQUIRED UG	Y
CIVIL ONLY WORK ORDER	N
PERMIT REQUIRED	Y
PERMIT TYPE: ENCROACHMENT & TRAFFIC	
OUTAGE REQUIRED	Y
OUTAGE DATE:_____ TIME:_____	
TRAFFIC CONTROL REQUIRED	Y
PED. TRAFFIC CONTROL REQ'D	N
CONVEYANCE LETTER REQ'D	N
ENVIRONMENTAL REQUIREMENTS DOCUMENT (ERD) REQUIRED	Y
CSD 140 (TLM) REQ'D	Y
CIRCUIT MAP CHANGE REQ'D (TD 203)	Y
DIG ALERT APP	N
VERIFIED ACTIVE AND CONFIRMED USA TICKETS	N
UTILIQUEST NOTIFIED	N
FAA MARKING REQ'D	N
FAA TYPE: _____	
ACTUAL COST WORK ORDER	N
STANDARD ADHERENCE: 01 Q/ 26 Y	

D124: 12/12/24

N

SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE: 1" = 40'
0 40 80

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
CITY OF SAN BUENAVENTURA

PRINCIPAL ENGINEER	5 May 2026 DATE
CITY ENGINEER	5/7/2026 DATE

DISTRICT 39 - VENTURA	PROJ. MGR. WALL, STEVEN D PHONE 8056547118		PLANNER WALL, STEVEN D PHONE 8056547118	DESIGNER RIFFEL, RILEY
PROJECT NO. 3166536	SERVICE REQUEST 4044496	MSR NO.	PRODUCT-1 2489602-NEW METER & SERVICE	ASSOC DESGN
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TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #
P	3/17/26		S.WALL	R.RIFFEL	24687

Southern California Edison Company

SHEET 2 OF 2
DESIGN\DRWG NO. 1908055_0.01

SPEC NO. 2025-010 DWG. NO. 2025-D-010 SHEET 151 OF 151

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