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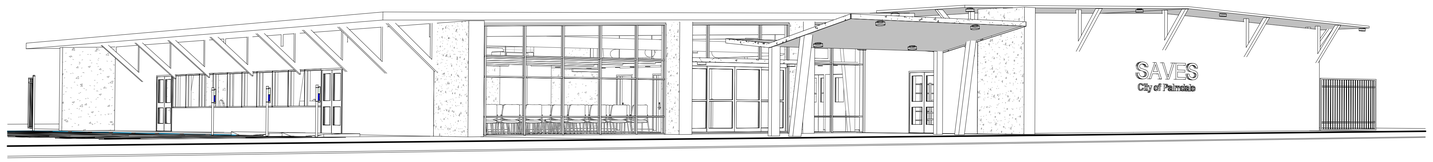
CITY OF PALMDALE

PALMDALE S.A.V.E.S.

PN #874

REMODEL AND ADDITION

38820 3RD ST E



BOA Architecture Interiors Planning
512 Redondo Ave. Long Beach, CA 90814 Tel. 562-912-7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

No.	DATE	DESCRIPTION	BY

Designer: Designer
CAD Draft: Author
Architect: LN
Submittal:
Client: PALMDALE
Date Issue: 01-22-2026
Job Number: 3148-25

Client:

Consultant:

LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN:11/30/27
STATE OF CALIFORNIA

- PROJECT INFORMATION & SHEET INDEX

GEN-1

ABBREVIATIONS

&	AND	I.D.	INSIDE DIAMETER
∠	ANGLE	INSUL	INSULATION
@	AT	INT	INTERIOR
C	CENTERLINE	JAN	JANITOR
⌀	DIAMETER OR ROUND	JT	JOINT
⊥	PERPENDICULAR	KIT	KITCHEN
#	POUND OR NUMBER	LAM	LAMINATE
ACC.	ACCESSIBLE	LAV	LAVATORY
A/C	AIR CONDITIONING	LT	LIGHT
ACOUS.	ACOUSTICAL	MAX	MAXIMUM
A.D.	AREA DRAIN	M.C.	MEDICINE CABINET
ADJ.	ADJUSTABLE	MECH	MECHANICAL
AL.	ALUMINUM	MEMB	MEMBRANE
APPROX.	APPROXIMATE	MTL	METAL
ARCH.	ARCHITECTURAL	MFR	MANUFACTURER
ASPH.	ASPHALT	MIN	MINIMUM
A.T.	ACOUSTICAL TILE	MISC	MISCELLANEOUS
BD.	BOARD	M.O.	MASONRY OPENING
BITUM.	BITUMINOUS	MTD	MOUNTED
BLDG.	BUILDING	MRG	MOISTURE RESISTANT-GYP. BD.
BLK	BLOCK		
BM	BEAM	MUL	MULLION
BOT	BOTTOM	MWO	MICROWAVE OVEN
CAB	CABINET	N	NORTH
C.B.	CATCH BASIN	N.I.C.	NOT IN CONTRACT
CEM	CEMENT	NO.	NUMBER
CER	CERAMIC	NOM	NOMINAL
C.I.	CAST IRON	N.T.S.	NOT TO SCALE
CLG.	CEILING	O/	OVER
CLKG	CALKING	OBS	OBSCURE
CLR.	CLEAR	O.C.	ON CENTER
CMU	CONCRETE MASONRY UNIT	O.D.	OUTSIDE DIAMETER
COL	COLUMN	OFF.	OFFICE
CONC.	CONCRETE	OPNG	OPENING
CONN.	CONNECTION	OPP	OPPOSITE
CONST.	CONSTRUCTION	PRCST	PRECAST
CONT.	CONTINUOUS	PL	PLATE
C.T.	CERAMIC TILE	P. LAM.	PLASTIC LAMINATE
CTR	CENTER	PLAS	PLASTER
DBL	DOUBLE	PLYWD	PLYWOOD
DEPT.	DEPARTMENT	PR	PAIR
D.F.	DRINKING FOUNTAIN	PT	POINT
DIA.	DIAMETER	Q.T.	QUARRY TILE
DET	DETAIL	R	RISER
DIM	DIMENSION	RAD	RADIUS
DISP	DISPENSER	R.D.	ROOF DRAIN
DN	DOWN	REF	REFERENCE
DR	DOOR	REFR	REFRIGERATOR
DS	DOWNSPOUT	REINF	REINFORCED
DWG	DRAWING	REQ	REQUIRED
E	EAST	RESIL	RESILIENT
EA.	EACH	RM	ROOM
EL	ELEVATION	R.O.	ROUGH OPENING
ELEC	ELECTRICAL	RWD	REDWOOD
ELEV	ELEVATOR	S	SOUTH
EMER	EMERGENCY	SC	SOLID CORE
ENCL	ENCLOSURE	SCHED	SCHEDULE
EQ	EQUAL	SECT	SECTION
EQPT	EQUIPMENT	SH	SHELF
(E) OR EXIST	EXISTING	SHR	SHOWER
EXPO	EXPOSED	SHT	SHEET
EXP	EXPANSION	SIM	SIMILAR
E.J.	EXPANSION JOINT	SPEC	SPECIFICATION
EXT	EXTERIOR	SQ	SQUARE
F.A.	FIRE ALARM	S.STL.	STAINLESS STEEL
F.D.	FLOOR DRAIN	S.SK.	SERVICE SINK
FND	FOUNDATION	STA	STATION
F.E.	FIRE EXTINGUISHER	STD	STANDARD
F.E.C.	FIRE EXTINGUISHER CABINET	STL	STEEL
FIN	FINISH	STOR	STORAGE
FL	FLOOR	STRUC	STRUCTURAL
FLASH	FLASHING	SUSP	SUSPENDED
FLUOR	FLUORESCENT	SYM	SYMMETRICAL
F.O.C.	FACE OF CONCRETE	TRD	TREAD
F.O.F.	FACE OF FINISH	T.B.	TOWEL BAR
F.O.S.	FACE OF STUD	T.C.	TOP OF CURB
FPRF	FIREPROOF	TEL	TELEPHONE
FT	FOOT OR FEET	T&G	TONGUE AND GROOVE
FTG	FOOTING	THK	THICK
FURR	FURRING	T.P.	TOP OF PAVEMENT
GA	GAUGE	TV	TELEVISION
GALV	GALVANIZED	T.W.	TOP OF WALL
G.D.	GARBAGE DISPOSAL	TYP.	TYPICAL
G.I.	GALVANIZED IRON	UNF	UNFINISHED
GL	GLASS	U.N.O.	UNLESS OTHERWISE NOTED
GND	GROUND	UR	URINAL
GR	GRADE	VERT	VERTICAL
GYP.	GYPSUM	VEST	VESTIBULE
H.B.	HOSE BIB	W	WEST
H.C.	HOLLOW CORE	W/	WITH
HDWD	HARDWOOD	W.C.	WATER CLOSET
HDWE	HARDWARE	WD	WOOD
HM	HOLLOW METAL	W/O	WITHOUT
HORIZ	HORIZONTAL	WP	WATERPROOF
HR	HOUR	WSCT	WAINSCOT
HT	HEIGHT	WT	WEIGHT
		W.I.	WROUGHT IRON

ADMIN. REQ. NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING WORK, REPORTING ANY DISCREPANCIES TO THE DESIGNER.
2. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS ON THE DRAWINGS.
3. GENERAL CONTRACTOR TO BE RESPONSIBLE FOR ALL DEMOLITION IN PREPARATION FOR NEW WORK.
4. CONTRACTOR SHALL PATCH, RESTORE, AND REFINISH ALL AREAS DAMAGED BY THE CONSTRUCTION WORK AND DEMOLITION TO MATCH ADJACENT FINISHES.
5. CONTRACTOR SHALL REPAIR ALL TRANSITIONAL AREAS BETWEEN EXISTING AND NEW WORK DUE TO DEMOLITION TO MATCH ADJACENT FINISHES.
6. PROTECT EXISTING CONSTRUCTION FINISHES, ADJACENT PROPERTY, PLANTING AND TREES. PROTECT THE WORK FROM RAIN AND OTHER NATURAL ELEMENTS. REPAIR, REFINISH, OR REPLACE ANY ITEMS DAMAGED DURING CONSTRUCTION.
7. NEW AND EXISTING WALLS/CEILING SURFACES SHALL BE PAINTED WHERE NOTED. SCRAPE, SAND, AND REMOVE ALL EXISTING LOOSE PAINT PER MANUFACTURER'S SPEC. AND PREPARE SURFACES FOR NEW PRIMER & PAINT.
8. COORDINATE W/ ENGINEER PRIOR TO DEMOLITION FOR ITEMS TO BE SALVAGED.
9. UTILITY SERVICES: CONTRACTORS AND SUB-CONTRACTORS SHALL CONFIRM LOCATIONS OF UTILITIES AND NOTIFY ALL PERSONS WORKING ON SITE OF EXISTING UTILITIES. CONTRACTOR SHALL LOCATE AND IDENTIFY ACTIVE UTILITY SERVICES AND TEMPORARY DE-ACTIVATE THEM WHEN THEY CONSTITUTE A HAZARD. LOCATION OF GAS, ELECTRIC AND WATER METERS TO CONFORM WITH UTILITY COMPANY REQUIREMENTS.
10. REGARDING DEMOLITION, CAP ALL EXISTING UTILITIES & PREPARE FOR NEW WORK AS REQUIRED.
11. CONTRACTOR SHALL PROVIDE TEMPORARY TOILET IN ACCORDANCE WITH LOCAL ORDINANCES IF NO EXISTING TOILET AVAILABLE ON SITE.
12. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL GOVERNING BLDG. CODES AND CITY ORDINANCES.
13. THE DRAWINGS ARE THE PROPERTY OF THE DESIGNER.
14. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE CITY CODES AND ORDINANCES.
15. WORKER'S COMPENSATION INSURANCE: CONTRACTOR AND SUB-CONTRACTOR SHALL PURCHASE AND MAINTAIN, COMPLY WITH ALL RERGAGE TO PROTECT THE CLAIMS UNDER WORKERS COMPENSATION ACTS, AND SHOW PROOF THEREOF.
16. CONTRACTOR CAN REQUEST "OR APPROVED EQUAL" MANUFACTURER FOR ALL NAMED MANUFACTURERS.
17. CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE DESIGNER HARMLESS WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLEGENCE OF THE OWNER OR THE DEISNGER.

GENERAL NOTES

THE PERSON IN CHARGE OF THE CONSTRUCTION OR INSTALLATION, WHO IS ELIGIBLE UNDER DIVISION 3 OF THE BUSINESS AND PROFESSIONS CODE TO ACCEPT RESPONSIBILITY FOR THE CONSTRUCTION OR INSTALATION OF REGULATED MANUFACTURED DEVICES SHALL POST, OR MAKE AVAILABLE WITH THE BUILDING PERMIT(S) ISSUED FOR THE BUILDING, THE CERTIFICATE OF INSTALLATION DOCUMENTATION FOR MANUFACTURED DEVICES REGULATED BY THE APPLIANCE EFFICIENCY REGULATIONS OR PART 6. SUCH CERTIFICATION OF INSTALLATION DOCUMENTATION SHALL BE MADE AVAILABLE TO THE ENFORCEMENT AGENCY FOR ALL APPLICABLE INSPECTION. THESE CERTIFICATES SHALL:

a. IDENTIFY FEATURES, MATERIALS, COMPONENTS, OR MANUFACTURED DEVICES, AND SYSTEM DIAGNOSTIC RESULTS REQUIRED TO VERIFY COMPLIANCE WITH THE APPLIANCE EFFICIENCY REGULATIONS AND PART 6.

b. STATE THE NUMBER OF THE BUILDING PERMIT UNDER WHICH THE CONSTRUCTION OR INSTALLATION C80 WAS PERFORMED. SECTIONS OF THE CERTIFICATE(S), FOR WHICH SUBMITTAL TO A HERS PROVIDER DATA REGISTRY IS REQUIRED, SHALL DISPLAY THE UNIQUE REGISTRATION NUMBER ASSIGNED BY THE HERS DATA REGISTRY.

c. INCLUDE A DECLARATION STATEMENT INDICATING THAT THE CONSTRUCTED OR INSTALLED FEATURES, MATERIALS, COMPONENTS, OR MANUFACTURED DEVICES CONFORM TO ALL APPLICABLE CODES AND REGULATIONS, AND TO THE REQUIREMENTS FOR SUCH DEVICES GIVEN IN THE PLANS AND SPECIFICATIONS APPROVED BY THE LOCAL ENFORCEMENT AGENCY.

d. BE SIGNED BY THE DOCUMENTATION AUTHOR TO CERTIFY THE DOCUMENTATION IS ACCURATE AND COMPLETE.

e. BE SIGNED BY THE INDIVIDUAL ELIGIBLE UNDER DIVISION 3 OF THE BUSINESS AND PROFESSIONS CODE TO ACCEPT RESPONSIBILITY FOR CONSTRUCTION, OR INSTALLATION IN THE APPLICABLE CLASSIFICATION FOR THE SCOPE OF WORK SPECIFIED ON THE CERTIFICATE OF INSTALLATION DOCUMENT(S).

THE BUILDER SHALL PROVIDE THE BUILDING OWNER OR THE PERSON(S) RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE FEATURE, MATERIAL, COMPONENT OR MECHANICAL DEVICE INSTALLED (IN CASE OF MULTI-TENANT OR CENTRALLY OPERATED BUILDINGS) WITH THE FOLLOWING AT THE TIME OF OCCUPANCY:

1. COMPLIANCE INFORMATION. THE APPROPRIATE COMPLETED AND SIGNED CERTIFICATE(S) OF COMPLIANCE, CERTIFICATE(S) OF INSTALLATION, AND IF APPLICABLE CERTIFICATE(S) OF VERIFICATION DOCUMENTATION SUBMITTED.
2. OPERATING INFORMATION. THE APPROPRIATE CERTIFICATE(S) OF COMPLIANCE AND A LIST OF THE FEATURES, MATERIALS, COMPONENTS, AND MECHANICAL DEVICES INSTALLED IN THE BUILDING AND INSTRUCTIONS ON HOW TO OPERATE THEM CORRECTLY AND EFFICIENTLY.
3. MAINTENANCE INFORMATION. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ACCESSIBLE LABEL. THE LABEL MAY BE LIMITED TO

PROJECT DATA

SCOPE OF WORK:

- INTERIOR AND EXTERIOR RENOVATION OF EXISTING WAREHOUSE TO INCLUDE 5,000 SF OF WAREHOUSE FOR DRY FOOD STORAGE AND 3,500 SF OF CLIENT SPACE (GROCERY SHOP AND CLOTHING BOUTIQUE). CLIENT SPACE TO HAVE NEW MECHANICAL VENTILATION
- NEW 5,000 SF PREFABRICATED BUILDING ADDITION FOR ADMINISTRATIVE SPACE.
- SITE WORK TO INCLUDE NEW PARKING LOT AND NEW SHADE STRUCTURE AT THE WEST STREET FRONT.

LOT INFORMATION:

LEGAL DESCRIPTION:	TR 7670 S 242.30 FT OF N 484.61 FT OF W 315.22 FT (EX OF ST) OF LOT 12
PROJECT ADDRESS:	38820 3RD ST E PALMDALE, CA 93550
APN:	3006-008-925
LOT:	13
LAND USE:	SPECIFIC PLAN
LOT AREA:	76,350 SF
ZONE TYPE:	(SP) SPECIFIC PLAN

BUILDING INFORMATION:

CONSTRUCTION TYPE:	TYPE II-B
NUMBER OF STORIES:	1
ALLOWABLE HEIGHT:	55'-0"
OVERALL BUILDING HEIGHT:	15'-10"
FIRE SPRINKLERS:	YES
FIRE ALARM:	NO
EXISTING BUILDING AREA:	8,000 SF
AREA TO BE RENOVATED:	8,000 SF
AREA OF ADDITION:	5,000 SF
NEW TOTAL BUILDING AREA:	13,0000 SF

OCCUPANCY INFORMATION (SEE A0.1 FOR ADDITIONAL INFORMATION):

OCCUPANCY TYPE:	A, B, M, S-2
TOTAL OCCUPANTS:	159

PARKING INFORMATION:

EXISTING PARKING STALLS:	14 STANDARD 0 ACCESSIBLE
PROPOSED PARKING:	61 STANDARD 3 VAN ACCESSIBLE

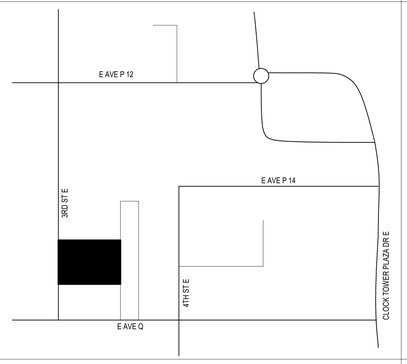
LANDSCAPING:

SITE AREA BEING IMPROVED:	42,850 SF

DEFERRED SUBMITTALS:

- PRE-FABRICATED BUILDING
- FIRE SPRINKLERS

LOCATION MAP



AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND 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 ACCEPTABLE METHODS TO REDUCE THE AMOUNT OF WATER, DUST, AND DEBRIS WHICH MAY ENTER THE SYSTEM.

BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19% MOISTURE CONTENT. INSULATION PRODUCTS WHICH ARE VISIBLY WET OR HAVE HIGH MOISTURE CONTENT SHALL BE REPLACED OR ALLOWED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES.

ALL MECHANICAL EXHAUST FANS IN ROOMS WITH A BATHTUB OR SHOWER SHALL COMPLY WITH THE FOLLOWING:

a. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING.
b. FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF <50% TO A MAXIMUM OF 80% UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM.

VERIFICATION OF COMPLIANCE WITH THESE SECTIONS MUST BE PROVIDED AT THE TIME OF FINAL INSPECTION AND SHALL BE DOCUMENTED ON THE BUILDING OPERATIONS AND MAINTENANCE MANUAL.

A. ADHESIVES, SEALANTS AND CAULKS SHALL MEET OR EXCEED THAT STANDARDS OUTLINED IN SECTION 4.504.2.1 AND COMPLY WITH THE VOC LIMITS IN TABLES 4.504.1 AND 4.504.2 AS APPLICABLE.
B. PAINTS AND COATINGS SHALL MEET OR EXCEED THE STANDARDS OUTLINED IN SECTION 4.504.2.2 AND COMPLY WITH THE VOC LIMITS IN TABLE 4.504.3.
C. AEROSOL PAINTS AND COATINGS SHALL MEET OR EXCEED THE STANDARDS OUTLINED IN SECTION 4.504.2.3.
D. ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING:
   a. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM OR
   b. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD METHOD FOR THE TESTING OF VOC EMISSIONS (SPECIFICATION 01350) OR
   c. NSF/ANSI 140 AT THE GOLD OR
   d. SCIENTIFIC CERTIFICATIONS SYSTEMS INDOOR ADVANTAGE GOLD
E. ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM. CARPET ADHESIVES SHALL NOT EXCEED A VOC LIMIT OF 50 G/L.
F. A MINIMUM OF 80% OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING:
   a. VOC EMISSION LIMITS DEFINED IN THE CHPS HIGH PERFORMANCE PRODUCTS DATABASE OR
   b. PRODUCTS COMPLIANT WITH CHPS CRITERIA CERTIFIED UNDER THE GREENGUARD CHILDREN & SCHOOLS PROGRAM OR
   c. CERTIFICATION UNDER THE RFCI FLOORSCORE PROGRAM OR
   d. MEET THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD METHOD FOR THE TESTING OF VOC EMISSIONS (SPECIFICATION 01350).

ENVIRONMENTAL QUALITY NOTES

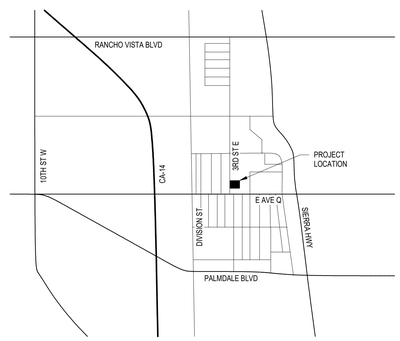
APPLICABLE STATE CODES (AS OF JAN. 1, 2023):

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2016 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2016 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS *(PER 2019 CBC PART 2 CH 35)*
NOTE: CALOSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION
2019 ACI318

FEDERAL STANDARDS
AMERICAN DISABILITY ACTS (2010)
NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS (2021)

APPLICABLE INDUSTRY STANDARDS

APPLICABLE CODES



VICINITY MAP

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CAL GREEN	CG-3
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STRIPING PLAN	STP-1

PROJECT DIRECTORY

OWNER
CITY OF PALMDALE
38250 SIERRA HIGHWAY
PALMDALE, CA 93550

CONTACT: CODY HICKS
PUBLIC WORKS PROJECT MANAGER
E: CHICKS@CITYOFPALMDALE.ORG
T: (661) 267- 5253

ELECTRICAL ENGINEER
EDA INCORPORATED
10061 TALBERT AVENUE, SUITE 300
FOUNTAIN VALLEY CA 92708

CONTACT: KEVIN FRIEDMAN
E: KEVIN@EDAINCORPORATED.COM
T: 714-609-3184

STRUCTURAL ENGINEER
PACIFIC ENGINEERING
17703 CRENSHAW BLVD.
TORRANCE, CA 90504

CONTACT: VICTOR CHAI-PRASERT
E: PACIFICENGINEER.VICTOR@GMAIL.COM

ARCHITECT
BOA ARCHITECTURE
1511 COTA AVENUE
LONG BEACH, CA 90813

CONTACT: EDWARD LOK NG
E: LOK.NG@BOAARCHITECTURE.COM
T: 562-912-7900

MECHANICAL ENGINEER
EDA INCORPORATED
10061 TALBERT AVENUE, SUITE 300
FOUNTAIN VALLEY CA 92708

CONTACT: KEVIN FRIEDMAN
E: KEVIN@EDAINCORPORATED.COM
T: 714-609-3184

CIVIL ENGINEER
DMS CONSULTANTS INC.
12371 LEWIS STREET, STE 203
GARDEN GROVE, CA 92840

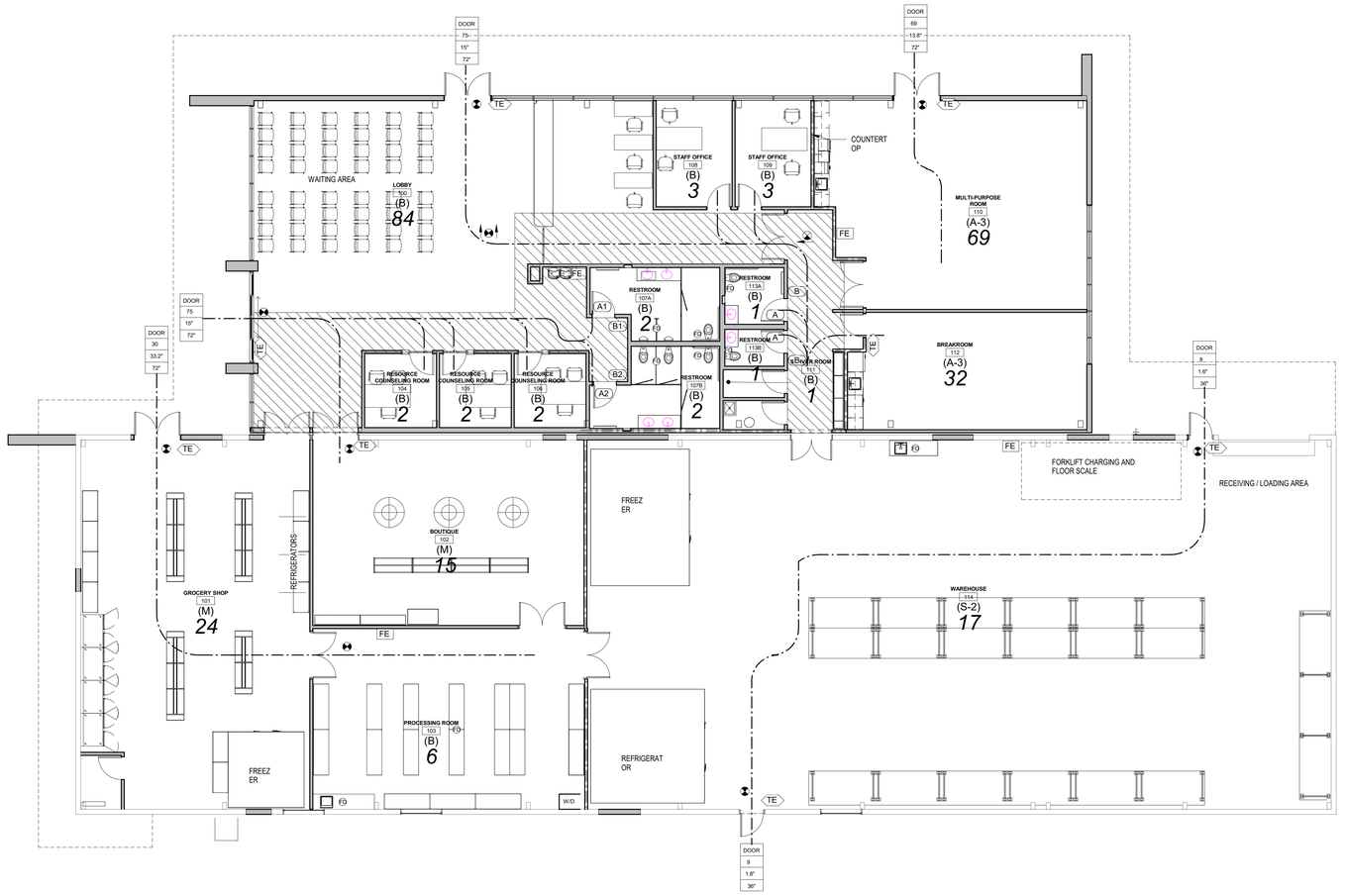
CONTACT: SURENDER DEWAN
E: SURENDER@DMSCONSULTANTSINC.COM
T: 714-740-8841

LANDSCAPE ARCHITECT
GRAHAM STANLEY & ASSOCIATES INC.
1376-A CORONADO AVENUE
LONG BEACH, CALIFORNIA 90804

CONTACT: GRAHAM STANLEY
E: GRAHAM@GRAHAMSTANLEY.NET
T: 562-494-1222

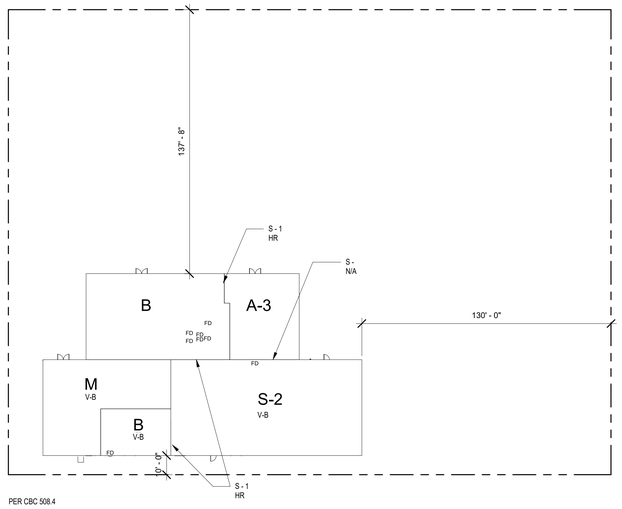
PLUMBING ENGINEER
EDA INCORPORATED
10061 TALBERT AVENUE, SUITE 300
FOUNTAIN VALLEY CA 92708

CONTACT: KEVIN FRIEDMAN
E: KEVIN@EDAINCORPORATED.COM
T: 714-609-3184



1 FLOOR PLAN

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



PER CBC 508.4

OCCUPANCY DIAGRAM

ALLOWABLE AREA CALCULATION

OCCUPANCY GROUP:	A-3
CONSTRUCTION TYPE:	II-B
ALLOWABLE AREA:	9,500 SF
ACTUAL AREA:	1,672 SF
OCCUPANCY GROUP:	B
CONSTRUCTION TYPE:	II-B
ALLOWABLE AREA:	23,000 SF
ACTUAL AREA:	4216 SF
OCCUPANCY GROUP:	M
CONSTRUCTION TYPE:	II-B
ALLOWABLE AREA:	12,500 SF
ACTUAL AREA:	2,445 SF
OCCUPANCY GROUP:	S-2
CONSTRUCTION TYPE:	II-B
ALLOWABLE AREA:	26,000 SF
ACTUAL AREA:	4,983 SF

A-3
1,672 / 9,500 = .186

B
4,216 / 23,000 = .183

M
2,445 / 12,500 = .196

S-2
4,983 / 26,000 = .192

.186 + .183 + .196 + .192 = .76

.76 ≤ 1.0

ALLOWABLE AREA CALCS

OCCUPANCY LOAD

ROOM NUMBER	ROOM NAME	SQ. FT.	OCCUPANCY	LOAD FACTOR	OCCUPANT LOAD
100	LOBBY	1350 SF	B	15 SF	84
101	GROCERY SHOP	1430 SF	M	60 SF	24
102	BOUTIQUE	870 SF	M	60 SF	15
103	PROCESSING ROOM	850 SF	B	150 SF	6
104	RESOURCE COUNSELING ROOM	90 SF	B	150 SF	2
105	RESOURCE COUNSELING ROOM	90 SF	B	150 SF	2
106	RESOURCE COUNSELING ROOM	90 SF	B	150 SF	2
107A	RESTROOM	150 SF	B	150 SF	2
107B	RESTROOM	160 SF	B	150 SF	2
108	STAFF OFFICE	140 SF	B	50 SF	3
109	STAFF OFFICE	140 SF	B	50 SF	3
110	MULTI-PURPOSE ROOM	900 SF	A-3	15 SF	69
111	SERVER ROOM	30 SF	B	150 SF	1
112	BREAKROOM	470 SF	A-3	15 SF	32
113A	RESTROOM	60 SF	B	150 SF	1
113B	RESTROOM	40 SF	B	150 SF	1
113C	UTILITY ROOM	30 SF			
114	WAREHOUSE	4770 SF	S-2	300 SF	17
		11650 SF			266

USE & OCCUPANCY

MEANS OF EGRESS NOTES:

1. WHERE MORE THAN ONE EXIT IS REQUIRED, NO ONE EXIT MAY BE UTILIZED TO ACCOUNT FOR MORE THAN 50% OF THE REQUIRED EGRESS WIDTH. PROVIDE A MORE UNIFORM DISTRIBUTION OF TOTAL EGRESS WIDTH AMONG THE PROVIDED EXITS. (CBC SECTION 1005.5)
2. FLOORS OR LANDINGS ON EACH SIDE OF DOORS TO HAVE THE SAME ELEVATION. LANDINGS SHALL BE LEVEL EXCEPT FOR EXTERIOR LANDINGS WHICH MAY SLOPE A MAXIMUM OF 2% AWAY FROM THE BUILDING.
3. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED.
4. EXIT SIGNS ILLUMINATED BY AN EXTERNAL SOURCE SHALL HAVE AN INTENSITY OF NOT LESS THAN 5 FOOT CANDLES (54 LUX).
5. INTERNALLY ILLUMINATED SIGNS SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND CBC SECTION 2702.
6. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES. (CBC SECTION 1013.3)
7. EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM THAT WILL PROVIDE AN ILLUMINATION OF LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS. (CBC SECTION 1013.6.3)
8. EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. SEE CBC SECTION 1010.1.9.3 FOR EXCEPTIONS.
9. DOOR HANDLES, LOCK AND OTHER OPERATING DEVICES SHALL BE INSTALLED AT A MIN. 34" AND A MAX. 48" ABOVE THE FINISHED FLOOR.
10. THE PRIMARY ENTRANCE/EGRESS DOOR SHALL HAVE THE FOLLOWING SIGN POSTED IN A PROMINENT AND VISIBLE LOCATION ABOVE THE DOOR: THIS DOOR TO REMAIN UNLOCKED WHEN SPACE IS OCCUPIED.
11. ALL EGRESS DOOR OPERATION SHALL ALSO COMPLY WITH SECTION 1010.1.9 - 1010.1.9.12.
12. THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED.
13. THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1 FOOT-CANDLE AT THE WALKING SURFACE.
14. THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES' ELECTRICAL SUPPLY. IN THE EVENT OF POWER SUPPLY FAILURE, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE THE FOLLOWING AREAS:
    - A. AISLES AND UNENCLOSED EGRESS STAIRWAYS IN ROOMS AND SPACES THAT REQUIRE TWO OR MORE MEANS OF EGRESS.
    - B. CORRIDORS, EXIT ENCLOSURES AND EXIT PASSAGEWAYS IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.
    - C. EXTERIOR EGRESS COMPONENTS AT OTHER THAN THE LEVEL EXIT DISCHARGE UNTIL EXIT DISCHARGE IS ACCOMPLISHED FOR BUILDING REQUIRED TO HAVE OR MORE EXITS.
    - D. INTERIOR EXIT DISCHARGE ELEMENTS, AS PERMITTED IN CBC SECTION 1028.1, IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.
    - E. EXTERIOR LANDINGS, AS REQUIRED BY CBC SECTION 1010.1.6, FOR EXIT DISCHARGE DOORWAYS IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.
15. THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH CBC SECTION 2702.
16. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT-CANDLE (11 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOT-CANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FOOT-CANDLE (6 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF 0.06 FOOT-CANDLE (0.6 LUX)

WALL LEGEND

- EXISTING WALL
- 1A — (N) NON-RATED FULL HEIGHT INT. WALL U.N.O.
- 2A — (N) 1 HR. FIRE RATED WALL, SEE 2 / A5.2

SIGNAGE LEGEND

- A — RESTROOM DOOR SIGNAGE - ALL GENDER (21 / A5.1) (23 / A5.1)
- A1 — RESTROOM DOOR SIGNAGE - MEN'S (26 / A5.1)
- A2 — RESTROOM WALL SIGN - WOMEN'S (26 / A5.1)
- B — RESTROOM WALL SIGN- ALL GENDER (22 / A5.1)
- B1 — RESTROOM WALL SIGN - MEN'S (22 / A5.1)
- B2 — RESTROOM WALL SIGN - WOMEN'S (22 / A5.1)
- C — OCCUPANT LOAD SIGN (30 / A5.1)
- D — TACTILE ROOM ID SIGN (20 / A5.1)
- E — TACTILE EXIT ROUTE SIGN
- F — TACTILE EXIT SIGN (15 / A5.1)
- G — ACCESSIBLE ENTRY SIGN
- H — NO SMOKING SIGN
- J — TACTILE NOT AN EXIT SIGN
- K — FIRE ALARM SIGN
- TE — NEW TACTILE EXIT SIGNAGE - SHALL COMPLY WITH CBC SECTION 1013.1 AND 11B-703.1 SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH WORD, "EXIT ROUTE" WILL BE PROVIDED ADJACENT TO EACH REQUIRED EXIT DOOR. (15 / A5.1)
- NEW EXIT ILLUMINATED SIGNAGE - EXIT SIGN ILLUMINATION IS REQUIRED BY SECTION 1013.3. THE SIGN SHALL BE ILLUMINATED AND HARDWIRE WITH NICADS BATTERY BACKUP.
- FE — FIRE EXTINGUISHER. WALL MOUNTED. MOUNTED AT NO MORE THAN 60" FROM TOP EXTINGUISHER TO FLOOR AND AT LEAST 4" FROM FLOOR. PROVIDE FIRE EXTINGUISHER EVERY 75 FEET.

CODE ANALYSIS LEGEND

- BUILDING AREA EXCLUDED FROM CALCULATION AS AUXILIARY SPACE
- PATH OF TRAVEL
- ## — ROOM OCCUPANT LOAD
- (A) — OCCUPANCY TYPE
- DOOR — EXISTING COMPONANT
- OP — OCCUPANCY LOAD @ EXIT COMPONANT
- 32" — REQUIRED CLEAR WIDTH IN INCHES
- 0" — PROVIDED CLEAR WIDTH IN INCHES
- FE — FIRE EXTINGUISHER CABINET LOCATION

EXIT COMPONENT WIDTHS: CBC 2022 1005

COMPONANTS: 0.2" /OCC. FACTOR

1. SEE RCP AND ELECTRICAL FOR EMERGENCY LIGHT AND EXIT SIGN LOCATIONS.

2. EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OF EXIT DOORWAY

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Architect: Checker
Engineer:
Client: PALMDALE
Date Issue: 01-22-2026
Job Number: 3148-25

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Consultant:

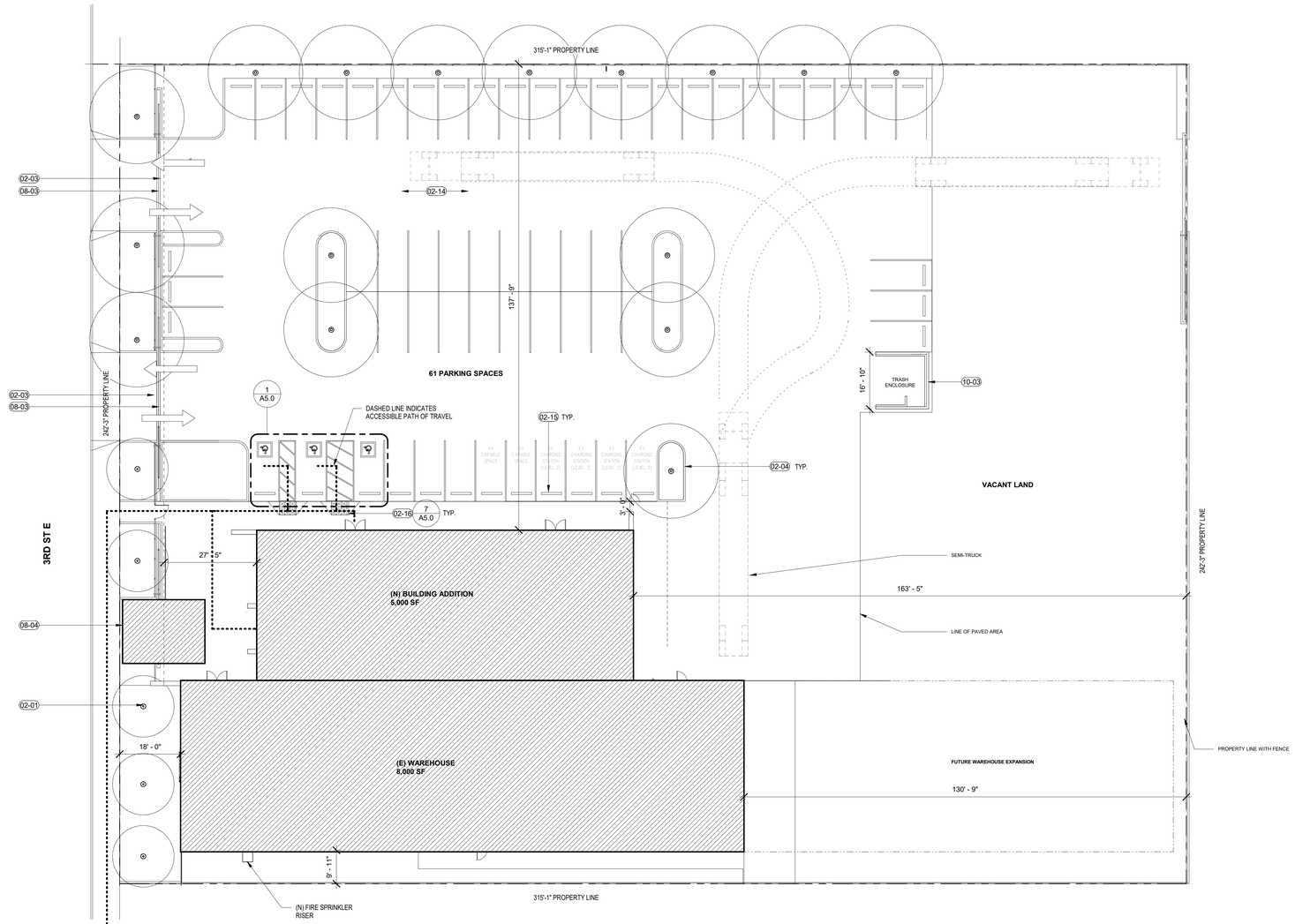
LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN.11/30/27
STATE OF CALIFORNIA

- OCCUPANCY AND EGRESS PLAN
-

A0.1

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1 **SITE PLAN**
SCALE: 1/16" = 1'-0"

N

SITE KEYNOTES

02-01	NEW TREES, REFER TO LANDSCAPE DRAWINGS FOR MORE INFORMATION.
02-03	NEW SLOPED DRIVEWAY. REFER TO CIVIL DRAWINGS.
02-04	NEW PLANTING AREA.
02-14	PROVIDE NEW ASPHALT PAVING FOR PARKING LOT PER CIVIL DRAWINGS. STRIPE AND MARK PARKING PER PLAN.
02-15	PROVIDE NEW CONCRETE CURBS PER LANDSCAPE DRAWINGS FOR LANDSCAPED AREAS AND ALONG PARKING STALLS.
02-16	PROVIDE NEW CURB CUT PER ADA REQUIREMENTS AT ACCESSIBLE RAMP LOCATION. MATCH ADJACENT SIDEWALK AND PAVING. FINISH WITH SMOOTH TROWEL AND DETECTABLE WARNING SURFACE PER ADA STANDARDS.
08-03	PROVIDE NEW MANUALLY OPERATED ROLLING GATE FABRICATED FROM STEEL TUBE FRAME. INCLUDE LATCH, STOPS AND HARDWARE FOR SECURE MANUAL OPERATION.
08-04	NEW DETACHED SHADE STRUCTURE.
10-03	PROVIDE FACTORY FABRICATED, POWDER-COATED STEEL TRASH ENCLOSURE WITH INTEGRATED ROOF COVER. ANCHOR TO CONCRETE SLAB.

CODE ANALYSIS LEGEND

SCOPE OF WORK

ACCESSIBLE PATH OF TRAVEL

TRUNCATED DOMES

"PATH OF TRAVEL" (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE. EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND ARE AT LEAST 48" WIDE. SURFACES SHALL BE SLIP-RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPES DO NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (POT) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM ABOVE FINISH SURFACE (1133B.8.2) WITH NO OBJECTS PROTRUDING MORE THAN 4" INTO THE P.O.T. THAT ARE ABOVE 27" AND LESS THAN 80" IN HEIGHT (1133B.8.6). CONTRACTOR SHALL VERIFY THAT ALL BARRIERS IN THE P.O.T. HAVE BEEN REMOVED AND THAT THE PATH OF TRAVEL COMPLIES

EV CHARGING CODE ANALYSIS

TOTAL NUMBER OF PARKING SPACES: 61

PER CGBSC TABLE 5.106.5.3.1
NUMBER OF REQUIRED EV CAPABLE SPACES: 13

OTHER THAN OFFICE AND RETAIL NUMBER
OF REQUIRED EVCS: 6

5 TO 1 EV CAPABLE TO DCFC RATIO PER CGBSC 5.106.5.3.2 3 REQUIREMENTS REDUCE MINIMUM REQUIREMENTS TO:

NUMBER OF DCFC(S) : 1
NUMBER OF LEVEL 2 EVSE: 1
NUMBER OF EV CAPABLE SPACES: 2

ACTUAL PROVIDED:
NUMBER OF DCFC: 3
NUMBER OF LEVEL 2 EVSE: 1
NUMBER OF EV CAPABLE SPACES: 2

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Architect: Checker
Engineer:
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Client:

Consultant:

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Edward Lok Ng
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- SITE PLAN
-
-

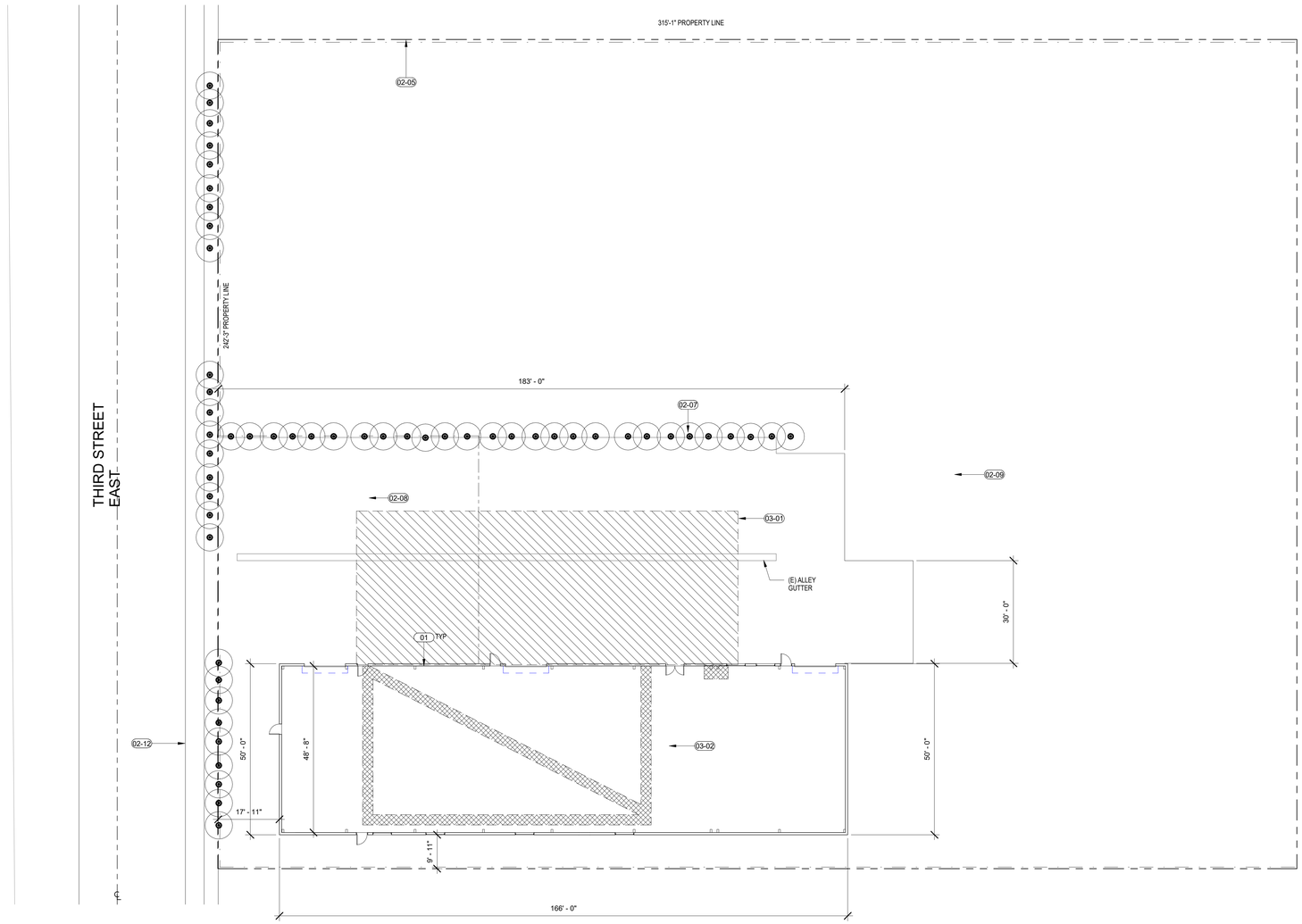
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RENOVATION KEYNOTES

01	EXTERIOR METAL SIDING AND GIRT TO BE REMOVED. PROTECT EXISTING STRUCTURAL COLUMNS IN PLACE.SEE WALL DETAILS A5.2.
02-05	EXISTING WROUGHT IRON FENCE TO BE REMOVED AND DISPOSED OF.
02-07	EXISTING LANDSCAPING TO BE REMOVED.
02-08	EXISTING AC PAVEMENT. PREPARE FOR NEW WORK.
02-09	EXISTING DIRT SITE. PREPARE FOR NEW WORK.
02-12	EXISTING CONCRETE SIDEWALK TO REMAIN.
03-01	PREPARE SUBGRADE AND RECOMPACT. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION.
03-02	SAWCUT EXISTING CONCRETE FOUNDATION AS REQUIRED FOR NEW UTILITIES. COORDINATE WITH ELECTRICAL AND PLUMBING DRAWINGS. VERIFY LOCATIONS IN FIELD.



2 DEMOLITION FLOOR PLAN
SCALE: 1/16" = 1'-0"

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Engineer:
Client: PALMDALE
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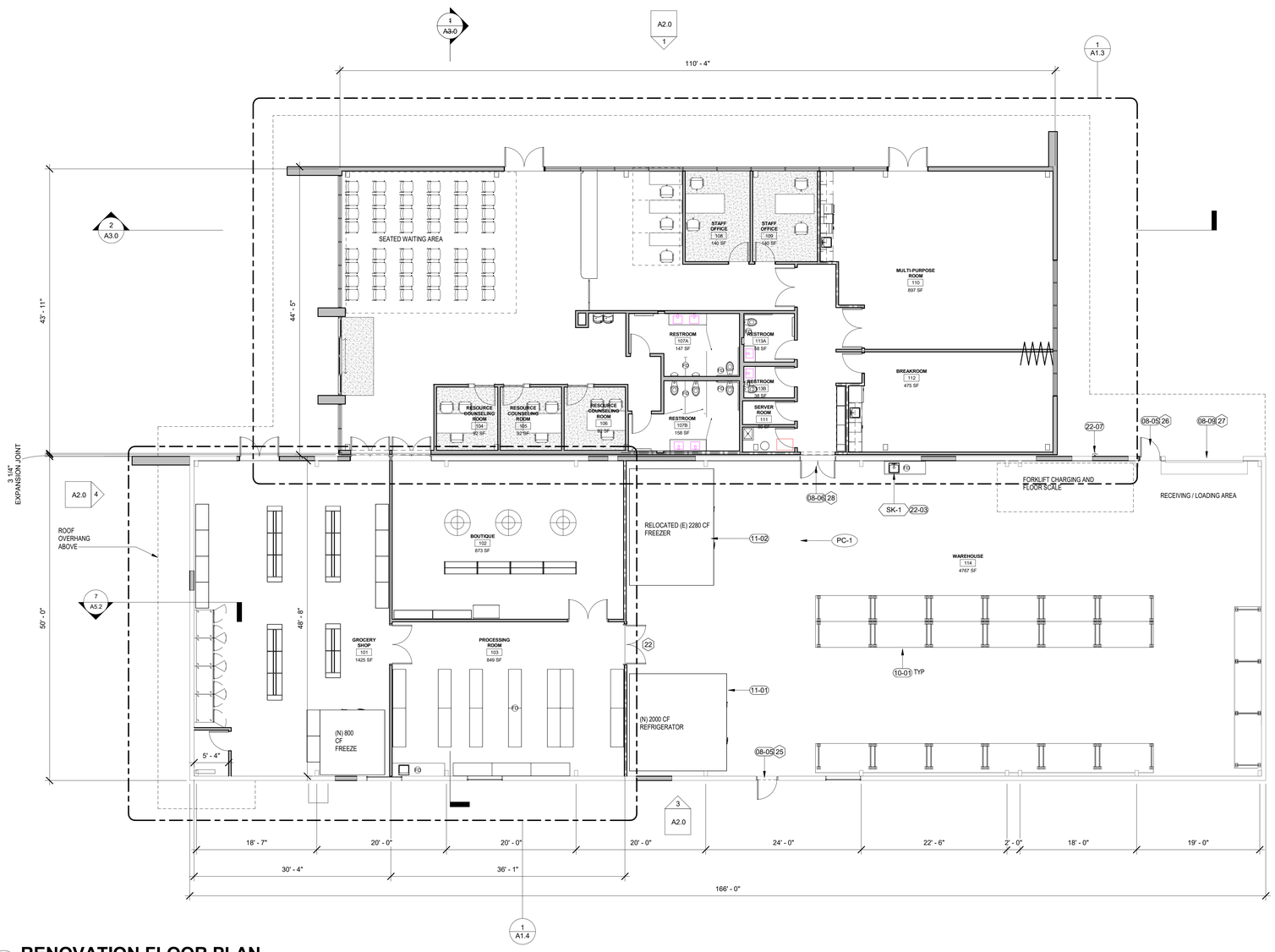
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- DEMOLITION PLAN
-
-

A1.1



1 RENOVATION FLOOR PLAN

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

RENOVATION KEYNOTES

08-05	NEW EXTERIOR HM DOOR AND HOLLOW METAL FRAME, SEE DOOR SCHEDULE AND SPECIFICATON FOR ADDITIONAL INFORMATION.
08-06	NEW INTERIOR HM DOOR AND HOLLOW METAL FRAME, SEE DOOR SCHEDULE AND SPECIFICATON FOR ADDITIONAL INFORMATION.
08-09	EXISTING METAL ROLL UP DOOR. CLEAN AND REPAIR AS NEEDED. PROTECT IN PLACE.
10-01	PROVIDE AND INSTALL NEW PALLET RACKING SYSTEM PER MANUFACTURERâ€™S RECOMMENDATIONS AND SHOP DRAWINGS. ANCHOR TO STRUCTURAL SLAB AS REQUIRED.
11-01	PROVIDE NEW WALK-IN REFRIGERATOR PER PLAN. ASSEMBLE AND INSTALL UNIT PER MANUFACTURERâ€™S INSTRUCTIONS. PROVIDE ALL REQUIRED UTILITY HOOKUPS INCLUDING ELECTRICAL, REFRIGERATION, AND DRAIN CONNECTIONS. COORDINATE LOCATION, CLEARANCES, AND SERVICE ACCESS WITH ARCHITECTURAL AND MEP DRAWINGS.
11-02	PROVIDE NEW WALK-IN FREEZER PER PLAN. ASSEMBLE AND INSTALL UNIT PER MANUFACTURERâ€™S INSTRUCTIONS. PROVIDE ALL REQUIRED UTILITY HOOKUPS INCLUDING ELECTRICAL, REFRIGERATION, AND DRAIN CONNECTIONS. COORDINATE LOCATION, CLEARANCES, AND SERVICE ACCESS WITH ARCHITECTURAL AND MEP DRAWINGS.
22-03	NEW MOPSINK AND PLUMBING FIXTURE.
22-07	NEW HOSE BIBB. SEE PLUMBING DRAWINGS.

WALL LEGEND

EXISTING WALL

1A (N) NON-RATED FULL HEIGHT INT. WALL U.N.O.

2A (N) 1 HR. FIRE RATED WALL, SEE 2 / A5.2

GEN NOTES

ROOFING
ROOF BY METAL BUILDING MANUFACTURER

1. ROOF INSULATION SHALL COMPLY WITH TITLE 24 CALCULATIONS.
2. FLASH AND COUNTERFLASH ALL ROOF, WALL AND ROOF TO WALL PENETRATIONS TO ENSURE A WATER TIGHT SEAL.
3. PROVIDE ROOF CURBS AT ALL ROOF MOUNTED EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. FLASH AND COUNTERFLASH PER NRCA STANDARDS.
4. ALL PLUMBING VENTS FROM BELOW SHALL BE A MINIMUM OF 8" ABOVE ROOF SURFACE AND 10'-0" FROM ALL MECHANICAL UNITS OR FRESH AIR INTAKES.
5. ALL VERTICAL SURFACES ON ROOF TO EXTEND A MINIMUM OF 12" ABOVE FINISH ROOFING SYSTEM.
6. THE MINIMUM ROOF SLOPE SHALL BE 1/4" PER FOOT, UNLESS NOTED OTHERWISE.
7. MECHANICAL EQUIPMENT SHALL BE SET ON CURBS, NO WOOD SLEEPERS WILL BE PERMITTED
8. THE TOP OF ROOF CURBS SHALL BE A MINIMUM OF 8" ABOVE THE FINISHED ROOF

WATER EFFICIENCY NOTES
THE FOLLOWING PLUMBING FIXTURES AND FIXTURE FITTINGS SHALL COMPLY WITH THE FOLLOWING FLOW RATES:
A. WATER CLOSETS - 1.28 GPF
B. URINALS - 0.5 GPF
C. SINGLE SHOWERHEAD - 1.8 GPM AT 80 PSI
D. MULTIPLE SHOWERHEADS - 1.8 GPM AT 80 PSI FOR ALL COMBINED SHOWERHEADS
E. LAVATORY FAUCETS - 0.5 GPM AT 60 PSI
F. LAVATORY FAUCETS IN PUBLIC USE AREAS - 0.5 GPM AT 60 PSI
G. METERING FAUCETS - 20 GALLONS PER CYCLE
H. KITCHEN FAUCETS - 1.8 GPM AT 60 PSI

MATERIAL CONSERVATION AND RESOURCE EFFICIENCY NOTES
1. ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR SIMILAR METHODS.
2. PROVIDE AN APPROVED RECYCLING AND REUSE PLAN (RRP) FROM ENVIRONMENTAL PROGRAMS DIVISION SHOWING THAT THE REQUIRED AMOUNT OF NONHAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS WILL BE SALVAGED, RECYCLED, AND/OR REUSED.
   A. FOUR OR FEWER UNITS COMPLY WITH A 50% DIVERSION.
   B. FIVE OR MORE UNITS COMPLY WITH A 65% DIVERSION.

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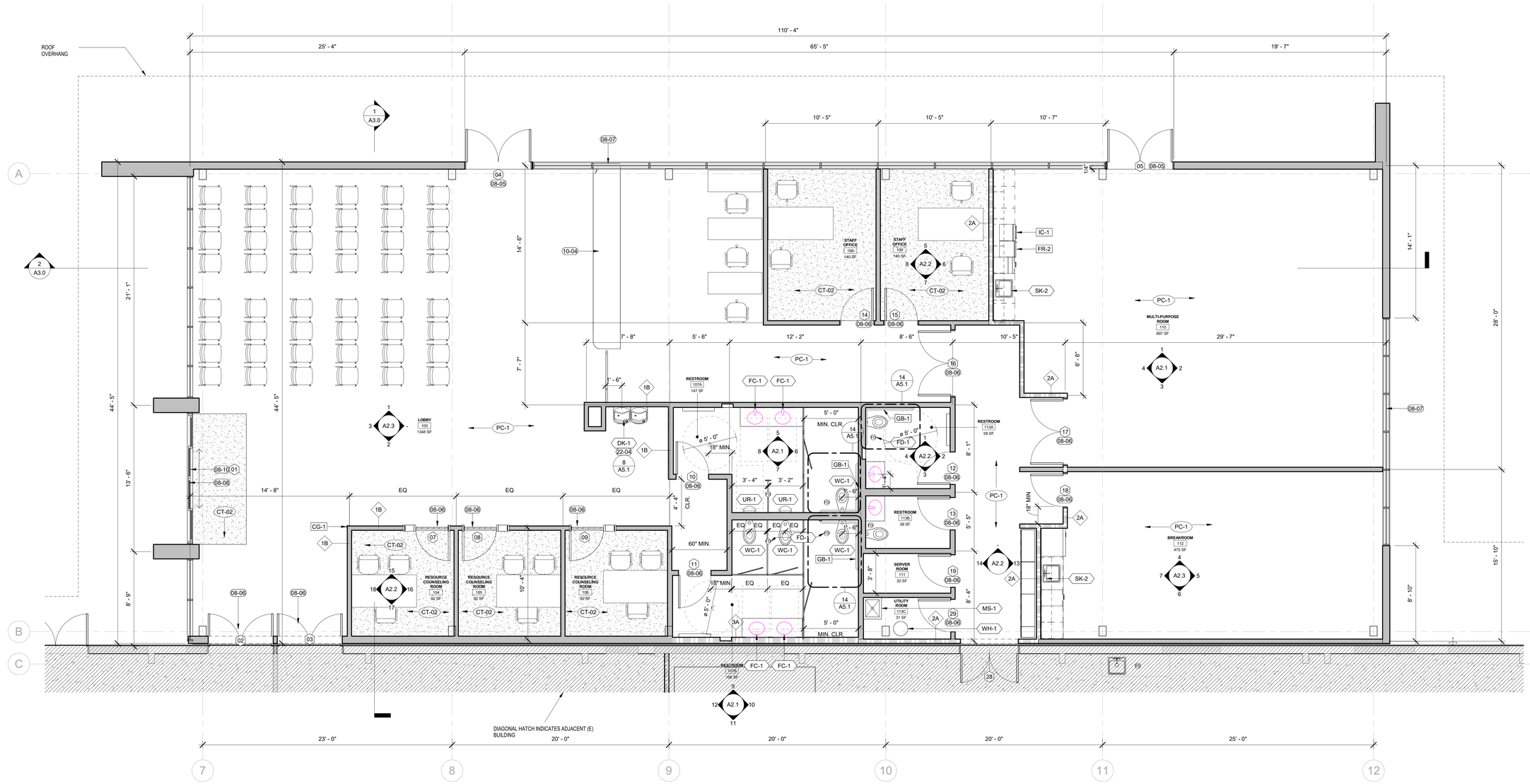
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- OVERALL FLOOR PLAN
-

A1.2

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1 ENLARGED PREFAB BLDG

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

RENOVATION KEYNOTES

08-05	NEW EXTERIOR HM DOOR AND HOLLOW METAL FRAME, SEE DOOR SCHEDULE AND SPECIFICATON FOR ADDITIONAL INFORMATION.
08-06	NEW INTERIOR HM DOOR AND HOLLOW METAL FRAME, SEE DOOR SCHEDULE AND SPECIFICATON FOR ADDITIONAL INFORMATION.
08-07	NEW EXTERIOR ALUMINUM WINDOW GLAZING AND FRAME SHALL BE DUAL GLAZED. TEMPERED WHERE REQUIRED.
08-08	PROVIDE NEW ALUMINUM STOREFRONT SYSTEM WITH TEMPERED GLASS.
08-10	NEW STOREFRONT DOUBLE SLIDING GLASS DOOR WITH AUTOMATIC OPENING.
10-04	PROVIDE NEW RECEPTIONIST DESK WITH ATTACHED CLIENT GATE. DESK TO INCLUDE ADA-COMPLIANT COUNTER HEIGHT FOR MINIMUM 3'-6" LENGTH. FABRICATE AND INSTALL PER ARCHITECTURAL DETAILS, INCLUDING FINISHES, HARDWARE, AND SECURE ANCHORAGE TO FLOOR.
22-04	ACCESSIBLE DRINKING FOUNTAIN AND BOTTLE FILLER.

WALL LEGEND

- EXISTING WALL
- 1A — (N) NON-RATED FULL HEIGHT INT. WALL U.N.O.
- 2A — (N) 1 HR. FIRE RATED WALL, SEE 2/A5.2

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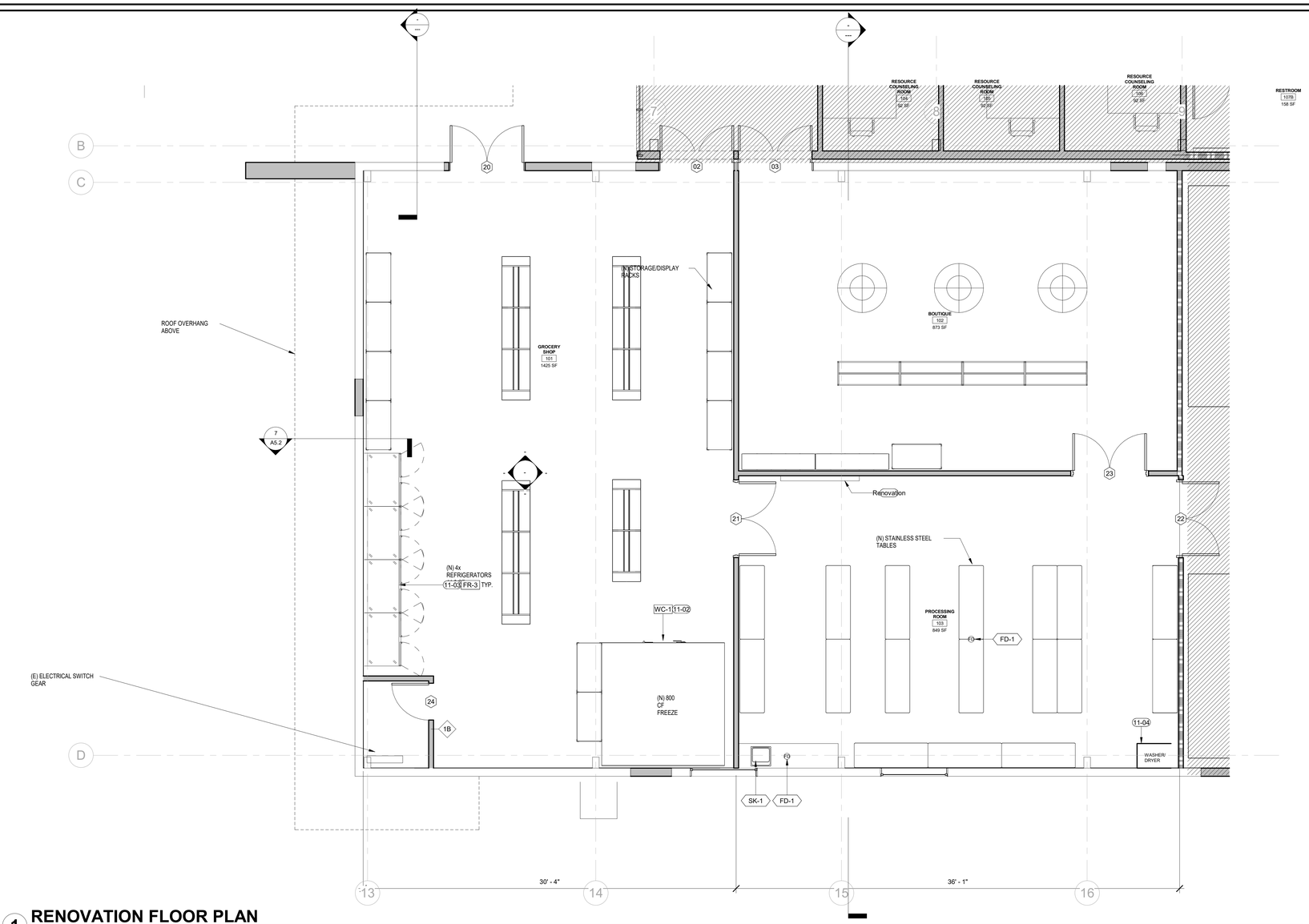
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- ENLARGED
- PRE-FAB BLDG
- PLAN

A1.3



1 RENOVATION FLOOR PLAN

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

RENOVATION KEYNOTES

11-02	PROVIDE NEW WALK-IN FREEZER PER PLAN. ASSEMBLE AND INSTALL UNIT PER MANUFACTURERâ€™S INSTRUCTIONS. PROVIDE ALL REQUIRED UTILITY HOOKUPS INCLUDING ELECTRICAL, REFRIGERATION, AND DRAIN CONNECTIONS. COORDINATE LOCATION, CLEARANCES, AND SERVICE ACCESS WITH ARCHITECTURAL AND MEP DRAWINGS.
11-03	PROVIDE AND INSTALL NEW FREEZERS PER PLAN. PROVIDE ALL REQUIRED UTILITY HOOKUPS INCLUDING ELECTRICAL, REFRIGERATION, AND DRAIN CONNECTIONS. COORDINATE LOCATION, CLEARANCES, AND SERVICE ACCESS WITH ARCHITECTURAL AND MEP DRAWINGS.
11-04	PROVIDE NEW WASHER AND DRYER HOOKUPS INCLUDING HOT AND COLD WATER, DRAIN, AND ELECTRICAL CONNECTIONS PER MANUFACTURER REQUIREMENTS. COORDINATE LOCATION, CLEARANCES, AND UTILITY CONNECTIONS WITH ARCHITECTURAL AND MEP PLANS. ENSURE PROPER VENTING AND ACCESS FOR MAINTENANCE.

WALL LEGEND

EXISTING WALL

1A (N) NON-RATED FULL HEIGHT INT. WALL U.N.O.

2A (N) 1 HR. FIRE RATED WALL, SEE 2 / A5.2

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PALMDALE SAVES
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No.	DATE	DESCRIPTION	BY

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer:
Client: PALMDALE
Date Issue: 01-22-2026
Job Number: 3148-25

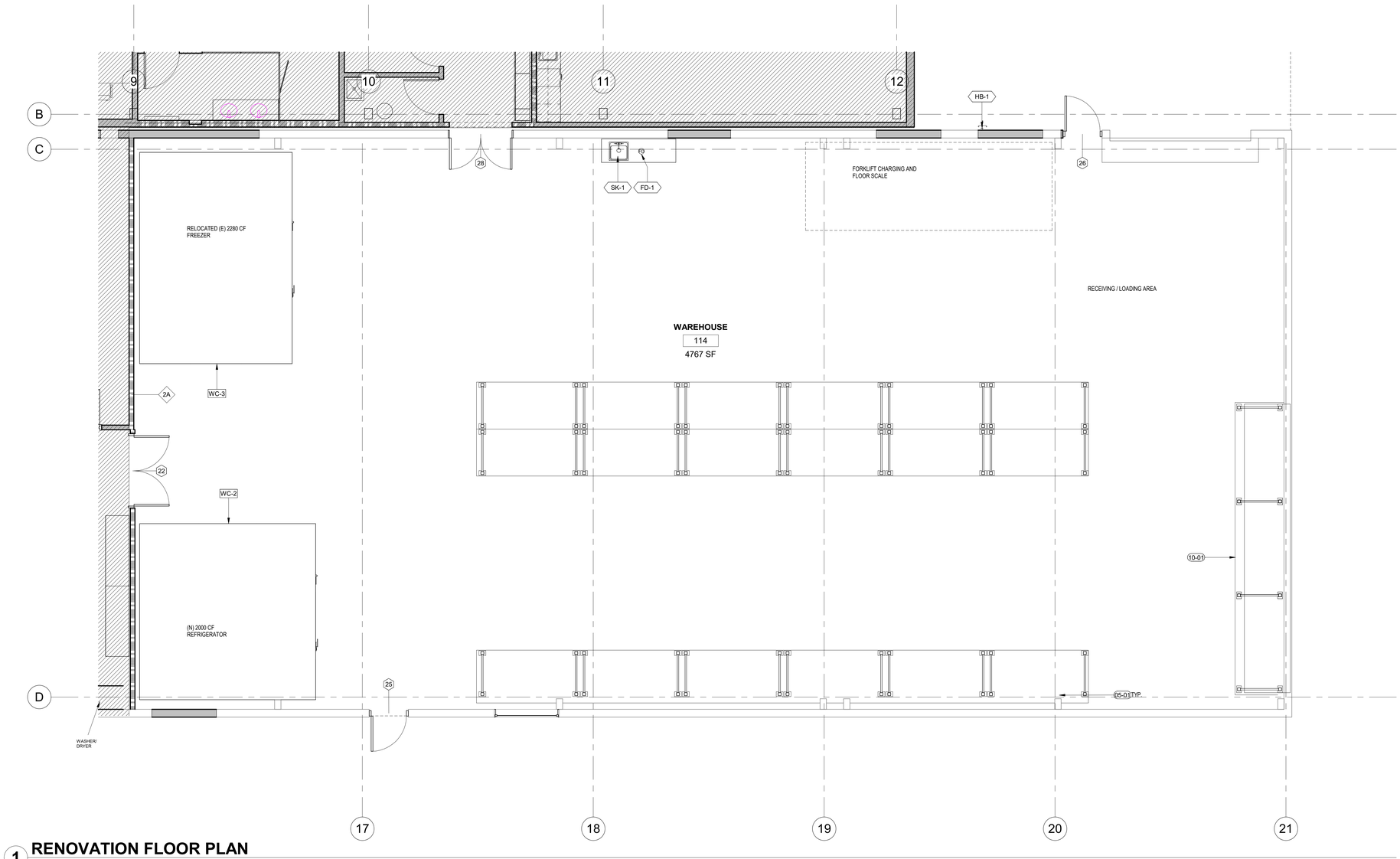
Client:

Consultant:

LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN:11/30/27
STATE OF CALIFORNIA

- ENLARGED
- WAREHOUSE
-

A1.4



1 RENOVATION FLOOR PLAN

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

RENOVATION KEYNOTES

05-01	EXISTING METAL COLUMN TO REMAIN. PROTECT IN PLACE.
10-01	PROVIDE AND INSTALL NEW PALLET RACKING SYSTEM PER MANUFACTURERâ€™S RECOMMENDATIONS AND SHOP DRAWINGS. ANCHOR TO STRUCTURAL SLAB AS REQUIRED.

WALL LEGEND

EXISTING WALL

1A (N) NON-RATED FULL HEIGHT INT. WALL U.N.O.

2A (N) 1 HR. FIRE RATED WALL, SEE 2/A5.2

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CAD Draft: Author
Architect: Checker
Engineer:
Client: PALMDALE
Date Issue: 01-22-2026
Job Number: 3148-25

Client:

Consultant:

LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN:11/30/27
STATE OF CALIFORNIA

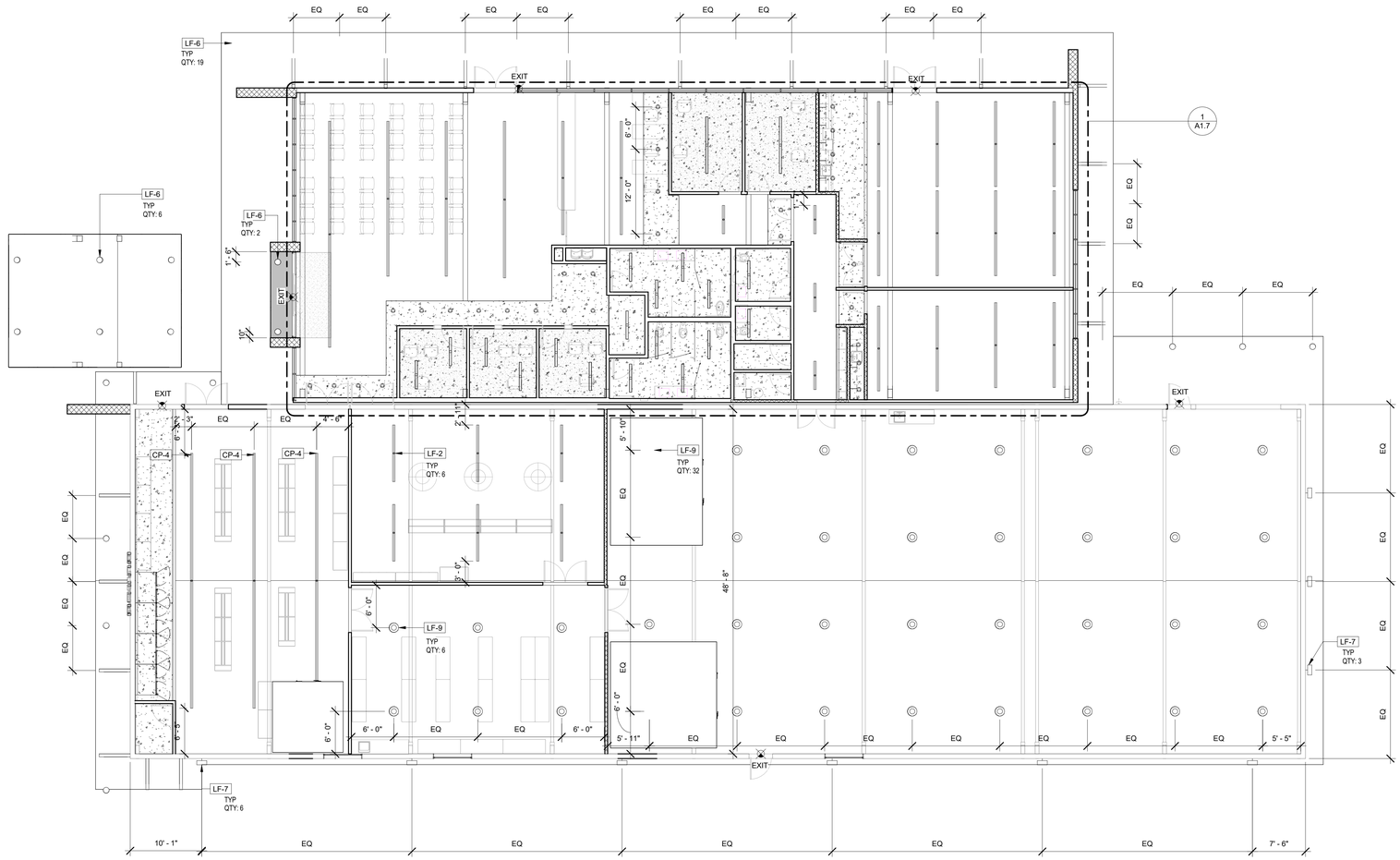
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- WAREHOUSE
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A1.5

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RENOVATION KEYNOTES



1 **REFLECTED CEILING PLAN**
SCALE: 1/8" = 1'-0"

N

Lighting Fixture Schedule

Type Mark	Image	TYPE	Manufacturer	Model	Type Comments	Count
CP-1		LINEAR PENDANT LIGHT - CONTINUOUS	ALLURE	LX2.3-IL34-SC-QM12-WH-WH	CONTINUOUS RUN LENGTH: 34'-0". REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.	1
CP-2		LINEAR PENDANT LIGHT - CONTINUOUS	ALLURE	LX2.3-IL26-SC-QM12-WH-WH	CONTINUOUS RUN LENGTH: 26'-0" REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.	3
CP-3		LINEAR PENDANT LIGHT - CONTINUOUS	ALLURE	LX2.3-IL16-SC-QM12-WH-WH	CONTINUOUS RUN LENGTH: 16'-0" REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.	2
CP-4		LINEAR PENDANT LIGHT - CONTINUOUS	ALLURE	LX2.3-IL36-SC-QM12-WH-WH	CONTINUOUS RUN LENGTH: 36'-0" REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.	3
LF-1		LINEAR PENDANT LIGHT - 4'-0"	ALLURE	LX2.3-IL4-SC-QM12-WH-WH		4
LF-2		LINEAR PENDANT LIGHT- 8'-0"	ALLURE	LX2.3-IL8-SC-QM12-WH-WH		6
LF-3		LINEAR PENDANT LIGHT- 12'-0"	ALLURE	LX2.3-IL12-SC-QM12-WH-WH		12
LF-4		SURFACE MOUNTED LINEAR LIGHT - 4'-0"	ALS	CSL-4SMC-WHUD		18
LF-5		RECESSED LED ROUND LIGHT, INTERIOR	ALS	DLA-G2-6-WHUD		29
LF-6		ROUND, SURFACE MOUNT LED, EXTERIOR	ALS	SMPR-G2-7-WHUD		27
LF-7		WALL MOUNTED LED, EXTERIOR	ALS	LW4A-MC-WHUD		9
LF-9		16" HIGH BAY LIGHT BAY PENDANT LIGHT	ALS	HBA2-250SC-CBKUD		38
LF-10		SURFACE MOUNTED LINEAR LIGHT - 8'-0"	ALS	CSL-8SMC-WHUD		2

CEILING SYMBOL LEGEND

MARK	SYMBOL	TYPE	MANUF.	MODEL/DESCRIPTION
		EXHAUST FAN	-	PROVIDE WHITE FINISH TO MATCH CEILING. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION
		SUPPLY DIFFUSER (CEILING MOUNTED)	-	PROVIDE WHITE FINISH TO MATCH CEILING. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION
		RETURN DIFFUSER (CEILING MOUNTED)	-	PROVIDE WHITE FINISH TO MATCH CEILING. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION
		HARDLID CEILING		AFF +8'-0" U.N.O
		OPEN TO ABOVE		

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PALMDALE SAVES
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Architect: Checker
Engineer:
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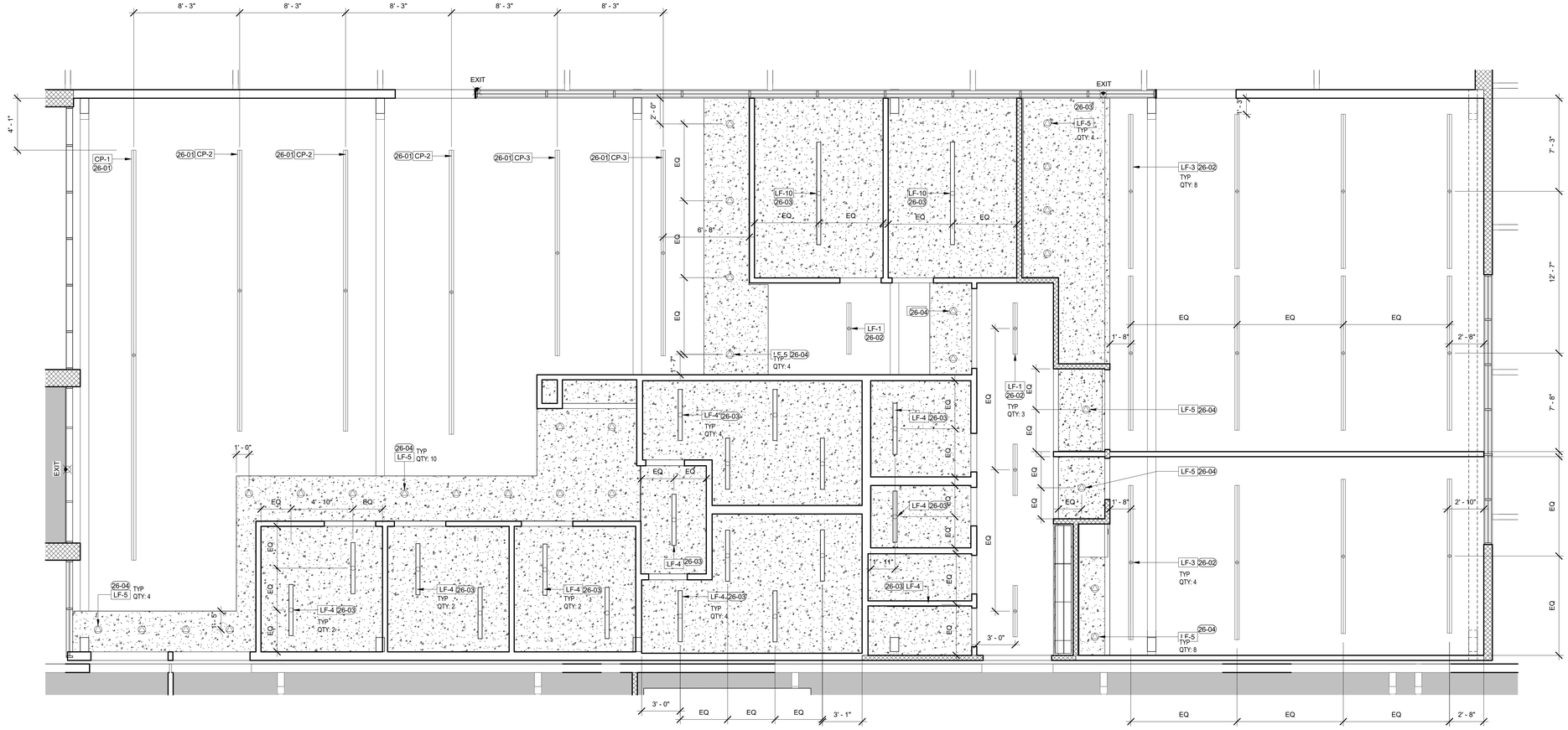
Client:

Consultant:

LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN.11/30/27
STATE OF CALIFORNIA

- REFLECTED CEILING PLAN – OVERALL

A1.6



1 REFLECTED CEILING PLAN - ENLARGED

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

N

RENOVATION KEYNOTES

26-01	PROVIDE NEW CONTINUOUS LINEAR PENDANT LIGHT FIXTURE. INSTALL PER MANUFACTURER INSTRUCTIONS AND ARCHITECTURAL DETAILS. CONNECT TO ELECTRICAL BRANCH CIRCUIT AS INDICATED. REFER TO LIGHTING FIXTURE SCHEDULE FOR TYPE, FINISH, AND LENGTH. REFER TO 3/A5.3.
26-02	PROVIDE NEW LINEAR PENDANT LIGHT FIXTURE. INSTALL PER MANUFACTURER INSTRUCTIONS AND ARCHITECTURAL DETAILS. CONNECT TO ELECTRICAL BRANCH CIRCUIT AS INDICATED. REFER TO LIGHTING FIXTURE SCHEDULE FOR TYPE, FINISH, AND LENGTH. REFER TO 3/A5.3.
26-03	PROVIDE NEW LINEAR SURFACE MOUNT LIGHT FIXTURE. INSTALL PER MANUFACTURER INSTRUCTIONS AND ARCHITECTURAL DETAILS. CONNECT TO ELECTRICAL BRANCH CIRCUIT AS INDICATED. REFER TO LIGHTING FIXTURE SCHEDULE FOR TYPE, FINISH, AND LENGTH.
26-04	PROVIDE NEW RECESSED ROUND LIGHT FIXTURE. INSTALL PER MANUFACTURER INSTRUCTIONS AND ARCHITECTURAL DETAILS. CONNECT TO ELECTRICAL BRANCH CIRCUIT AS INDICATED. REFER TO LIGHTING FIXTURE SCHEDULE FOR TYPE, FINISH, AND LENGTH.

Lighting Fixture Schedule

Type Mark	Image	TYPE	Manufacturer	Model	Type Comments	Count
CP-1		LINEAR PENDANT LIGHT - CONTINUOUS	ALLURE	LX2.3-IL34-SC-QM12-WH-WH	CONTINUOUS RUN LENGTH: 34'-0". REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.	1
CP-2		LINEAR PENDANT LIGHT - CONTINUOUS	ALLURE	LX2.3-IL26-SC-QM12-WH-WH	CONTINUOUS RUN LENGTH: 26'-0" REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.	3
CP-3		LINEAR PENDANT LIGHT - CONTINUOUS	ALLURE	LX2.3-IL16-SC-QM12-WH-WH	CONTINUOUS RUN LENGTH: 16'-0" REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.	2
CP-4		LINEAR PENDANT LIGHT - CONTINUOUS	ALLURE	LX2.3-IL36-SC-QM12-WH-WH	CONTINUOUS RUN LENGTH: 36'-0" REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.	3
LF-1		LINEAR PENDANT LIGHT - 4'-0"	ALLURE	LX2.3-IL4-SC-QM12-WH-WH		4
LF-2		LINEAR PENDANT LIGHT- 8'-0"	ALLURE	LX2.3-IL8-SC-QM12-WH-WH		6
LF-3		LINEAR PENDANT LIGHT- 12'-0"	ALLURE	LX2.3-IL12-SC-QM12-WH-WH		12
LF-4		SURFACE MOUNTED LINEAR LIGHT - 4'-0	ALS	CSL-4SMC-WHUD		18
LF-5		RECESSED LED ROUND LIGHT, INTERIOR	ALS	DLA-G2-6-WHUD		29
LF-6		ROUND, SURFACE MOUNT LED, EXTERIOR	ALS	SMPR-G2-7-WHUD		27
LF-7		WALL MOUNTED LED, EXTERIOR	ALS	LW4A-MC-WHUD		9
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LF-10		SURFACE MOUNTED LINEAR LIGHT - 8'-0"	ALS	CSL-8SMC-WHUD		2

CEILING SYMBOL LEGEND

MARK	SYMBOL	TYPE	MANUF.	MODEL/DESCRIPTION
		EXHAUST FAN	-	PROVIDE WHITE FINISH TO MATCH CEILING. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION
		SUPPLY DIFFUSER (CEILING MOUNTED)	-	PROVIDE WHITE FINISH TO MATCH CEILING. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION
		RETURN DIFFUSER (CEILING MOUNTED)	-	PROVIDE WHITE FINISH TO MATCH CEILING. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION
		HARDLID CEILING		AFF +8'-0" U.N.O
		OPEN TO ABOVE		

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CAD Draft: Author
Architect: Checker
Engineer:
Client: PALMDALE
Date Issue: 01-22-2026
Job Number: 3148-25

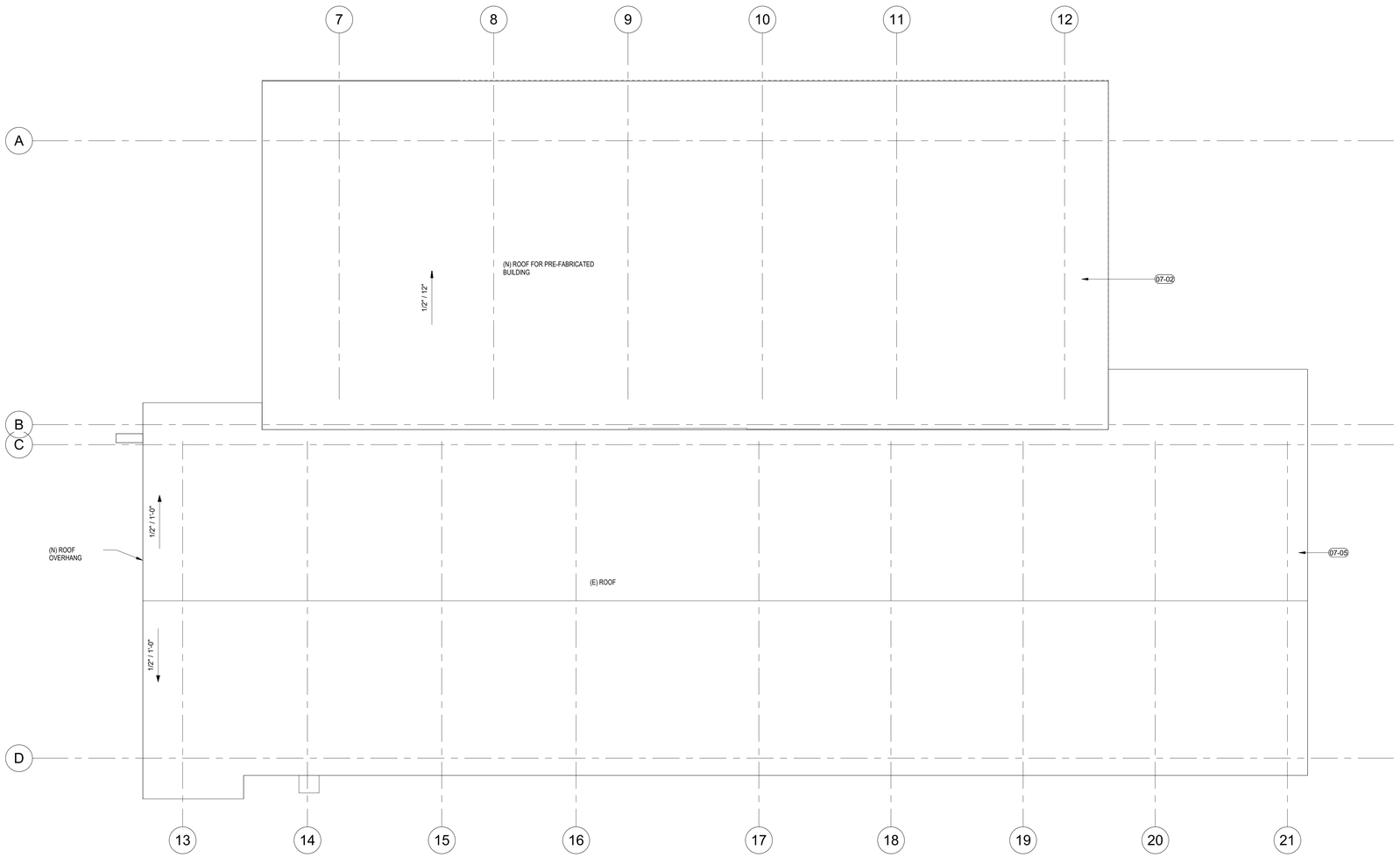
Client:

Consultant:

LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN.11/30/27
STATE OF CALIFORNIA

- REFLECTED CEILING PLAN – ENLARGED

A1.7



1 ROOF PLAN

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

RENOVATION KEYNOTES

07-02	NEW PREFABRICATED BUILDING WITH ROOF SYSTEM TO ALIGN BELOW EXISTING ROOF ELEVATION. VERIFY HEIGHT IN FIELD PRIOR TO ORDER AND INSTALLATION.
07-05	NEW STANDING SEAM METAL ROOFING SYSTEM. REFER TO STRUCTURAL DRAWINGS.

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Architect: Checker
Engineer:
Client: PALMDALE
Date Issue: 01-22-2026
Job Number: 3148-25

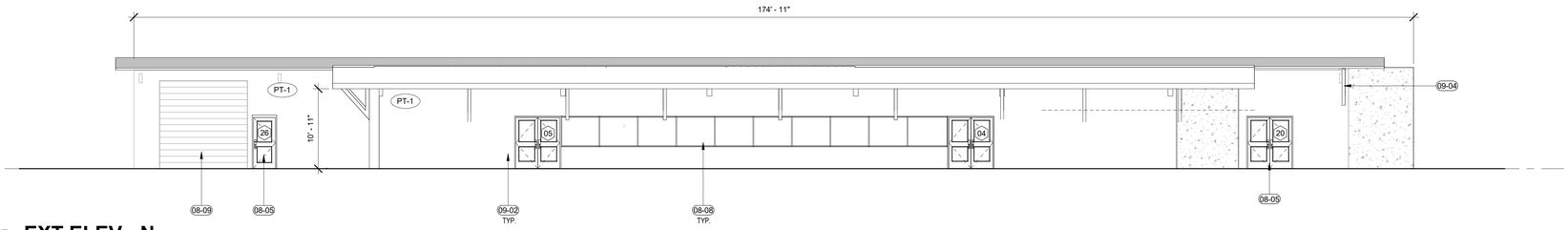
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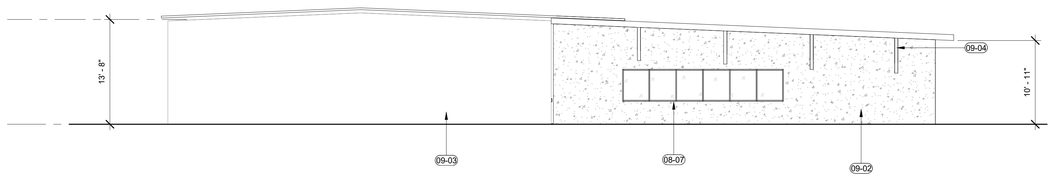
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C-16840
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- ROOF PLAN

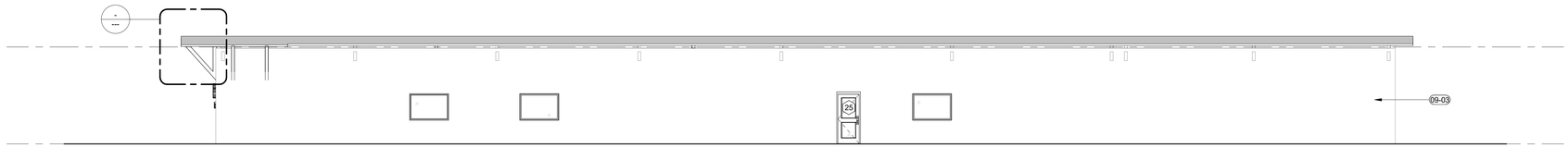
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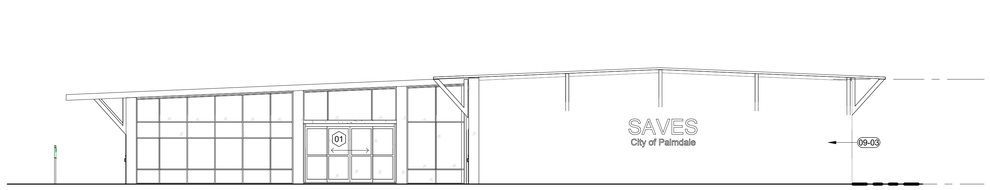
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SCALE: 1/8" = 1'-0"



2 EXT ELEV - E
SCALE: 1/8" = 1'-0"



3 EXT ELEV - S
SCALE: 1/8" = 1'-0"



4 EXT ELEV - W
SCALE: 1/8" = 1'-0"

RENOVATION KEYNOTES

08-05	NEW EXTERIOR HM DOOR AND HOLLOW METAL FRAME, SEE DOOR SCHEDULE AND SPECIFICATON FOR ADDITIONAL INFORMATION.
08-07	NEW EXTERIOR ALUMINUM WINDOW GLAZING AND FRAME SHALL BE DUAL GLAZED. TEMPERED WHERE REQUIRED.
08-08	PROVIDE NEW ALUMINUM STOREFRONT SYSTEM WITH TEMPERED GLASS.
08-09	EXISTING METAL ROLL UP DOOR. CLEAN AND REPAIR AS NEEDED. PROTECT IN PLACE.
09-02	NEW PREFABRICATED BUILDING WALL. FINISH TBD.
09-03	NEW METAL SIDING TO BE PAINTED PER FINISH SCHEDULE.
09-04	ARCHITECTURAL STRUCTURAL FACADE SUPPORT.

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Edward Lok Ng
C-16840
REN:11/30/27
STATE OF CALIFORNIA

- EXTERIOR
- ELEVATIONS
-

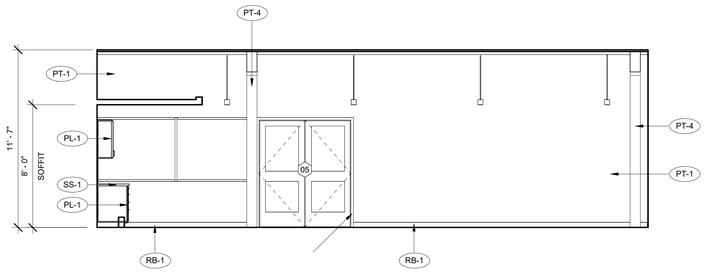
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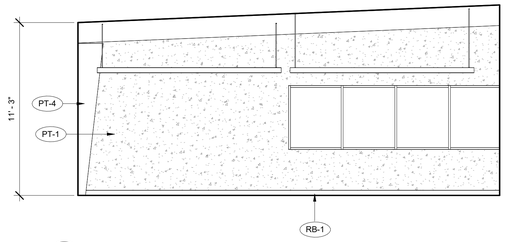
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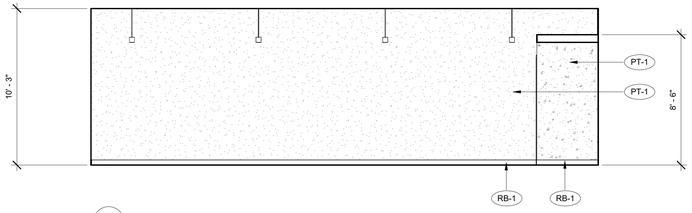
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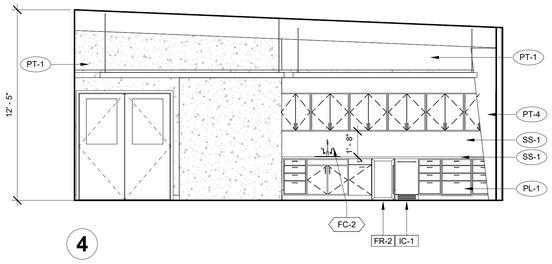
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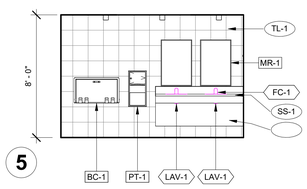


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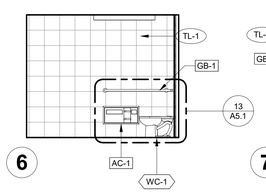


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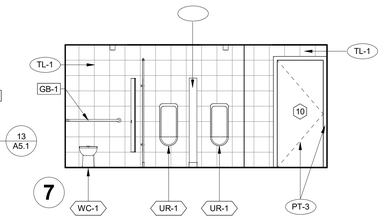
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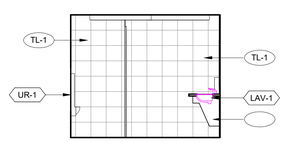
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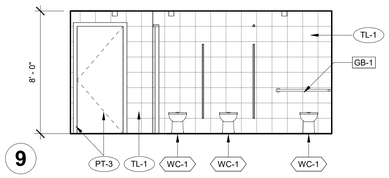


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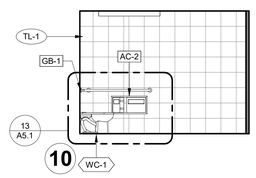


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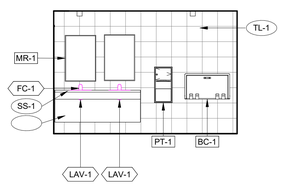
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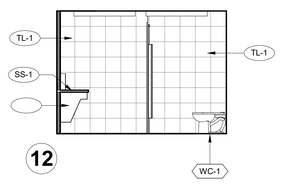
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10



11



12

RESTROOM 107B

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Client:

Consultant:

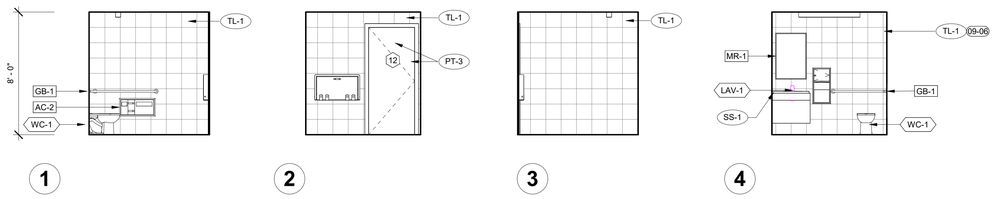
LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN.11/30/27
STATE OF CALIFORNIA

- INTERIOR
- ELEVATIONS
-

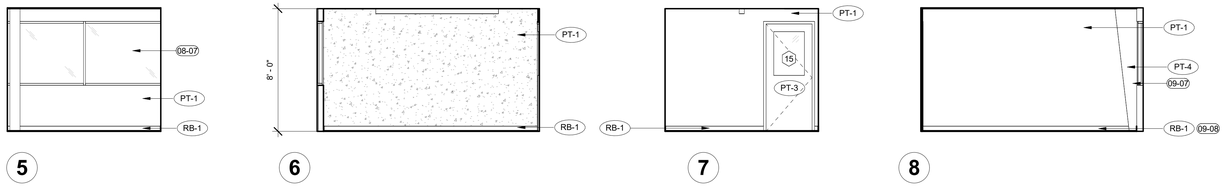
A2.1

RENOVATION KEYNOTES

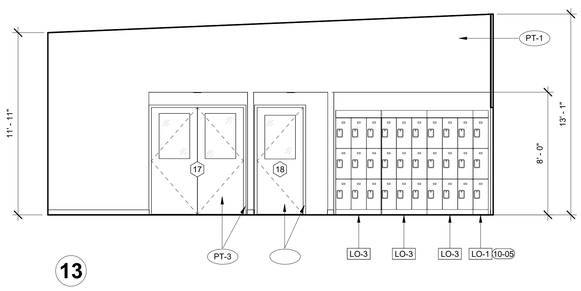
08-07	NEW EXTERIOR ALUMINUM WINDOW GLAZING AND FRAME SHALL BE DUAL GLAZED. TEMPERED WHERE REQUIRED.
09-06	NEW WALL TILE. REFER TO ELEVATIONS AND MATERIAL SCHEDULE FOR MORE INFORMATION.
09-07	CLEAN, PREPARE, AND PAINT EXISTING AND/OR NEW STRUCTURAL STEEL BEAMS AND COLUMNS PER SPECIFICATIONS. REMOVE RUST, OIL, AND DEBRIS.
09-08	PROVIDE NEW RUBBER WALL BASE. SEE MATERIAL SCHEDULE.
10-05	NEW LOCKER SYSTEM. REFER TO EQUIPMENT SCHEDULE FOR MORE INFORMATION. TO BE SECURED TO WALL AND APPROPRIATE FILLER MODELS TO BE USED FOR A COHESIVE FRONT WITH SLOPED TOP FILLERS.

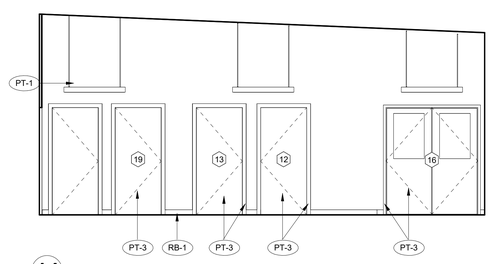


RESTROOM 113A (113B SIM.)

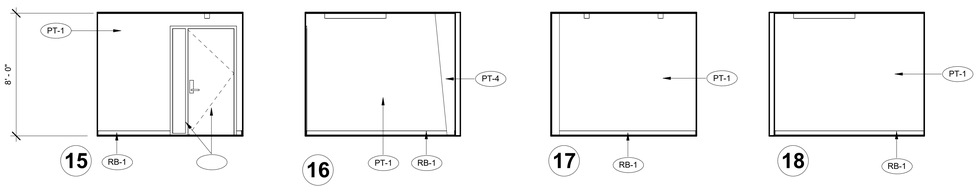


STAFF OFFICE 109 (108 SIM.)





HALLWAY



RESOURCE COUNSELING RM 104 (105 & 106 SIM)

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BOA Architecture Interiors Planning
512 Redondo Ave. Long Beach, CA 90814 Tel. 562-912-7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

No.	DATE	DESCRIPTION	BY

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer:
Client: PALMDALE
Date Issue: 01-22-2026
Job Number: 3148-25

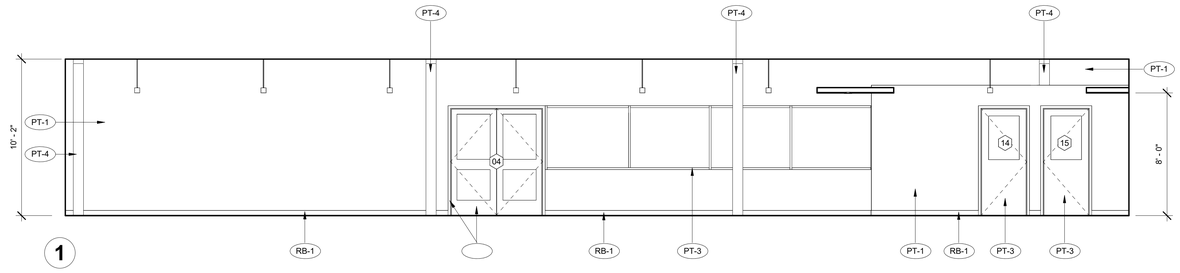
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Consultant:

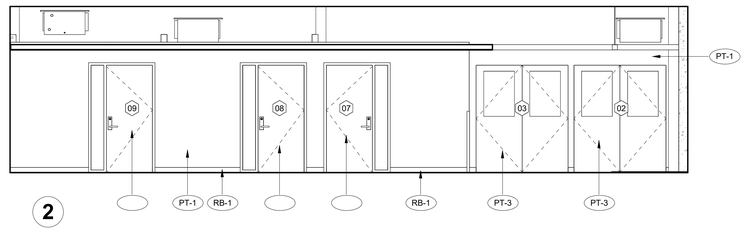
LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN.11/30/27
STATE OF CALIFORNIA

- INTERIOR
- ELEVATIONS
-

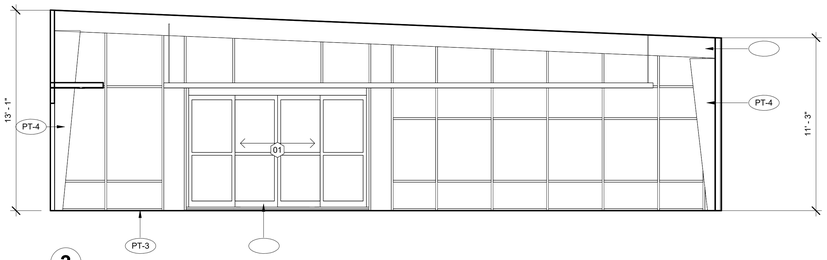
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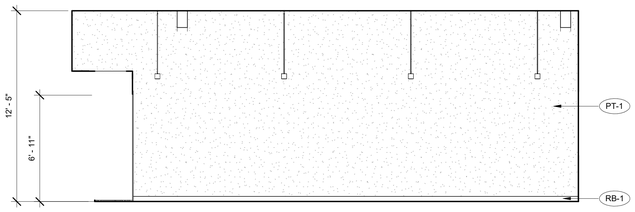


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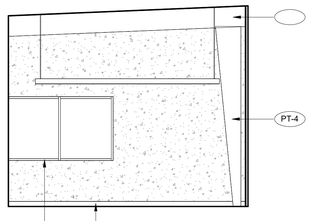


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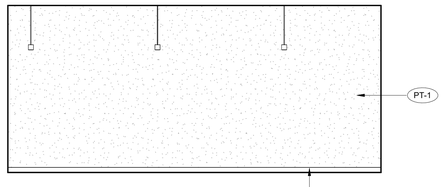
LOBBY



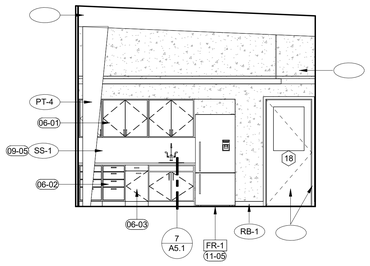
4



5



6



7

BREAKROOM

RENOVATION KEYNOTES

06-01	NEW UPPER CABINETS WITH PLASTIC LAMINATE OVER SOLID PLYWOOD WITH HEAVY DUTY HARDWARE/HINGES PROVIDED WITH ADJUSTABLE SHELVES AT 12" O.C. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL BEFORE FABRICATION.
06-02	NEW LOWER BASE CABINETS WITH PLASTIC LAMINATE OVER SOLID PLYWOOD WITH HEAVY DUTY HARDWARE/HINGES. TOP OF SOLID COUNTER TOP TO BE AT 34" MAXIMUM, SINK APPROACH TO PROVIDE 29" MINIMUM APRON CLEARANCE WITH 27" CLEAR MINIMUM KNEEE SPACE. CONTRACTOR TO PROVIDE SHOP DRAWINGS TO ARCHITECT FOR APPROVAL BEFORE FABRICATION.
06-03	PROVIDE NEW SLIDE-OUT CABINET DRAWER WITH SPACE FOR TWO (2) SEPARATE BINS FOR TRASH AND RECYCLING. COORDINATE WITH MILLWORK.
09-05	NEW SOLID SURFACE BACKSPLASH FROM COUNTERTOP TO BASE OF UPPER CABINETS.
11-05	NEW KITCHEN REFRIGERATOR. PROVIDE ACCESS TO WATER LINE FOR ICE MAKER AND ICE MAKER KIT/VALVE.

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512 Redondo Ave. Long Beach, CA 90814 Tel. 562-912-7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

No.	DATE	DESCRIPTION	BY

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer:
Client: PALMDALE
Date Issue: 01-22-2026
Job Number: 3148-25

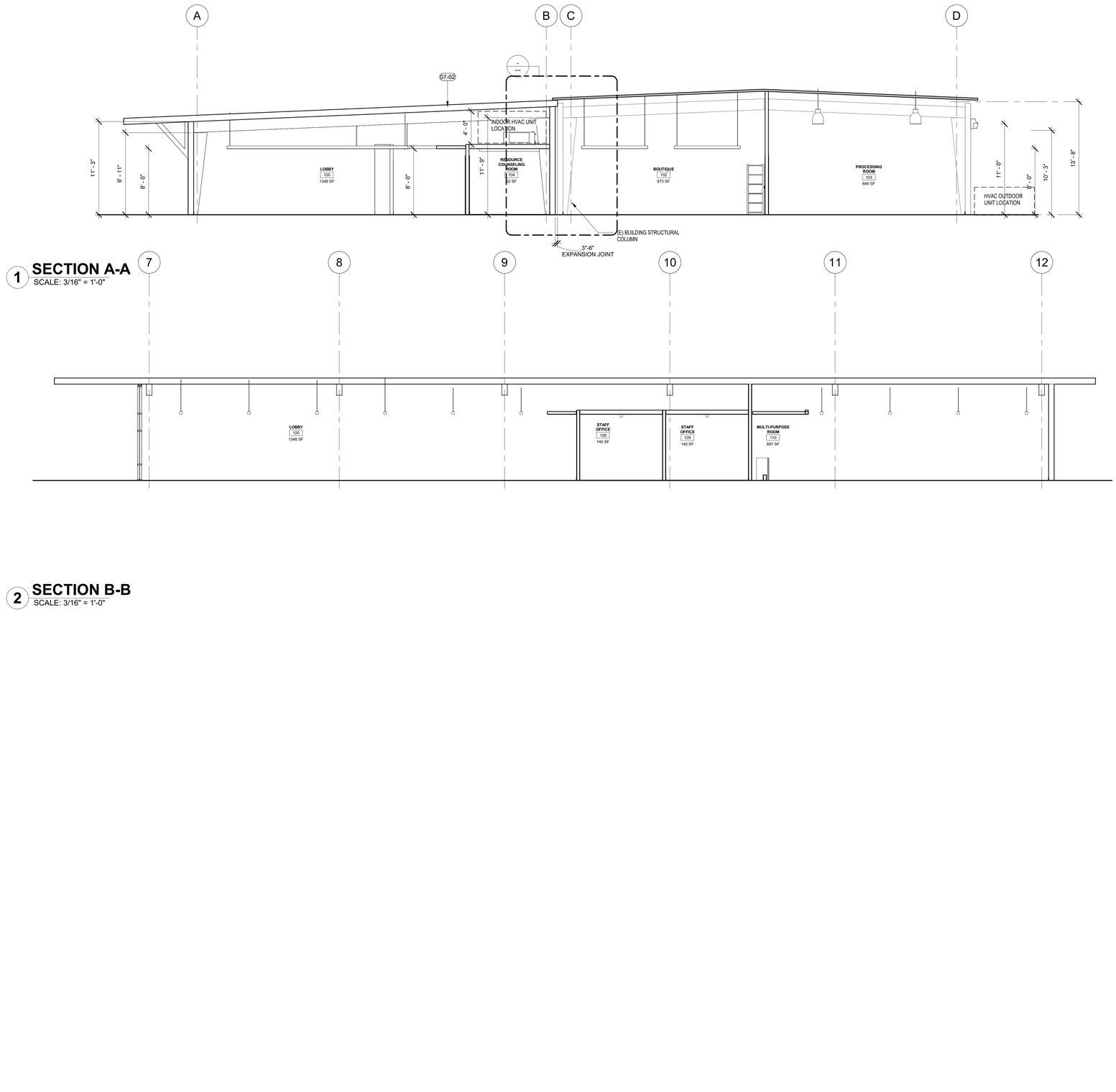
Client:

Consultant:

LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN.11/30/27
STATE OF CALIFORNIA

- INTERIOR
- ELEVATIONS
-

A2.3



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

2 SECTION B-B
SCALE: 3/16" = 1'-0"

RENOVATION KEYNOTES

07-02	NEW PREFABRICATED BUILDING WITH ROOF SYSTEM TO ALIGN BELOW EXISTING ROOF ELEVATION. VERIFY HEIGHT IN FIELD PRIOR TO ORDER AND INSTALLATION.

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STATE OF CALIFORNIA

- SECTIONS
-
-

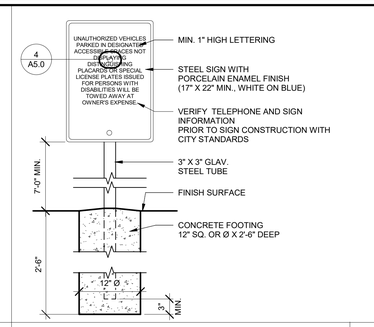
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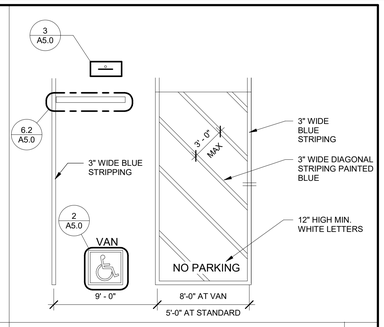
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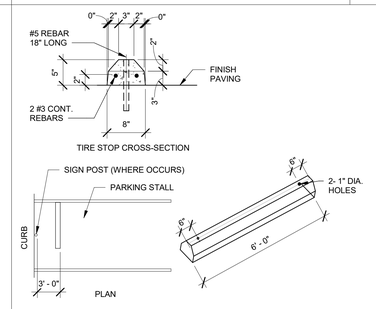
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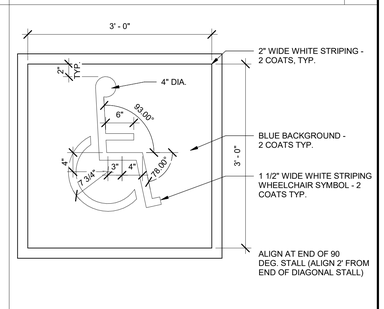
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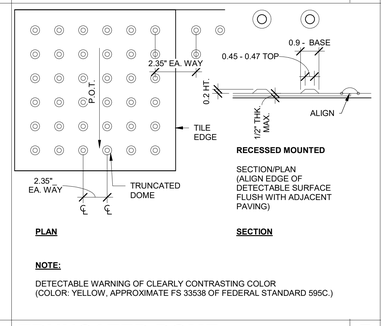
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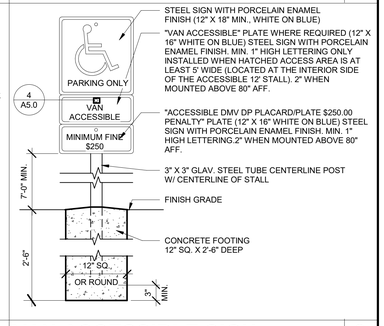
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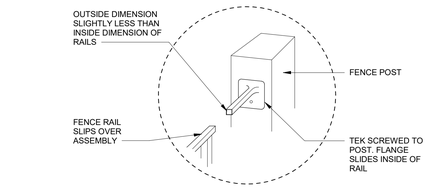
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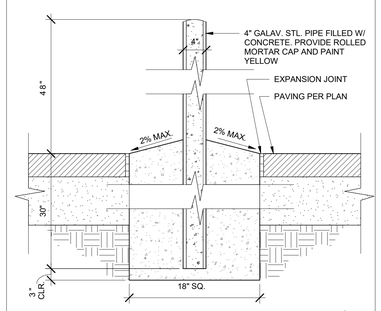
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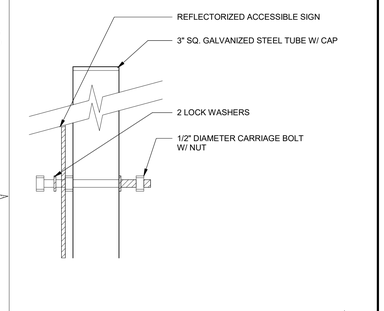
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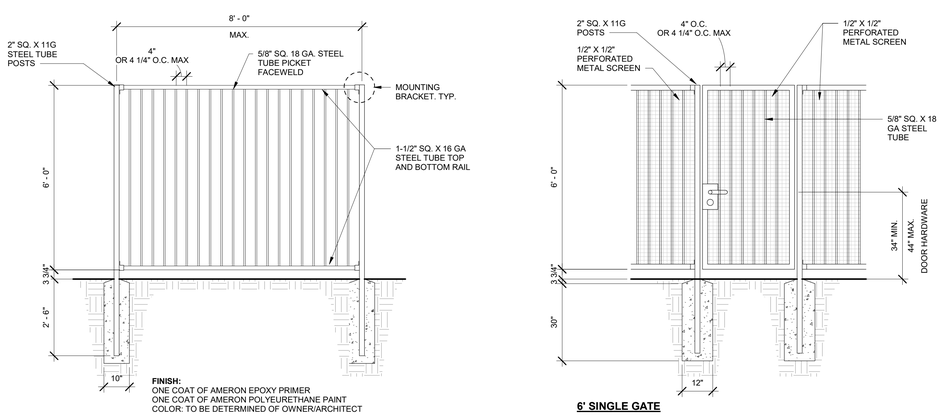
MOUNTING BRACKET DETAIL



BOLLARD 8



SIGN MOUNT 4



6' SINGLE GATE

METAL FENCE 9

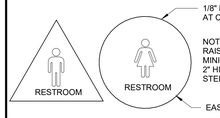
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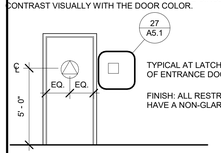


1/8" MIN. RADIUS AT CORNERS

NOTE: LETTERS AND NUMERALS ARE RAISED 1/32". CHARACTERS ARE MINIMUM 5/8" HIGH AND A MAXIMUM OF 2" HIGH. ATTACH WITH 4 STAINLESS STEEL SCREWS.

EASED EDGES

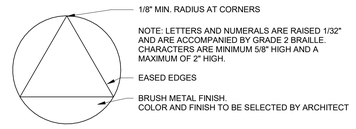
2" DIAMETER CIRCLE 1/4" THICK AND 12" EQUILATERAL TRIANGLE 1/4" THICK. THE WORD "RESTROOM" IS LOCATED DIRECTLY UNDER PICTOGRAM. COLOR OF TRIANGLE SHALL CONTRAST VISUALLY WITH THE COLOR OF THE CIRCLE. COLOR OF CIRCLE SHALL CONTRAST VISUALLY WITH THE DOOR COLOR.



TYPICAL AT LATCH SIDE OF ENTRANCE DOOR

FINISH: ALL RESTROOM SIGNS SHALL HAVE A NON-GLARE FINISH.

RESTROOM SIGN - A 26



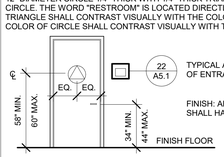
1/8" MIN. RADIUS AT CORNERS

NOTE: LETTERS AND NUMERALS ARE RAISED 1/32" AND ARE ACCOMPANIED BY GRADE 2 BRAILLE. CHARACTERS ARE MINIMUM 5/8" HIGH AND A MAXIMUM OF 2" HIGH.

EASED EDGES

BRUSH METAL FINISH. COLOR AND FINISH TO BE SELECTED BY ARCHITECT

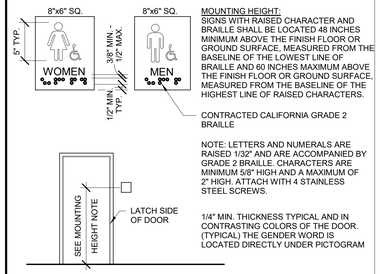
12" DIAMETER CIRCLE 1/4" THICK WITH 1/4" THICK TRIANGLE SUPERIMPOSED WITHIN CIRCLE. THE WORD "RESTROOM" IS LOCATED DIRECTLY UNDER PICTOGRAM. COLOR OF TRIANGLE SHALL CONTRAST VISUALLY WITH THE COLOR OF THE CIRCLE. COLOR OF CIRCLE SHALL CONTRAST VISUALLY WITH THE DOOR COLOR.



TYPICAL AT LATCH SIDE OF ENTRANCE DOOR

FINISH: ALL RESTROOM SIGNS SHALL HAVE A NON-GLARE FINISH.

RESTROOM SIGN B 21



MOUNTING HEIGHT:
SIGNS WITH RAISED CHARACTER AND BRAILLE SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.

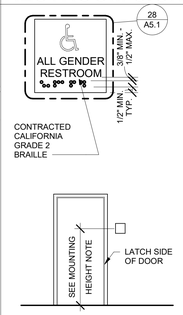
CONTRACTED CALIFORNIA GRADE 2 BRAILLE

NOTE: LETTERS AND NUMERALS ARE RAISED 1/32" AND ARE ACCOMPANIED BY GRADE 2 BRAILLE. CHARACTERS ARE MINIMUM 5/8" HIGH AND A MAXIMUM OF 2" HIGH. ATTACH WITH 4 STAINLESS STEEL SCREWS.

LATCH SIDE OF DOOR

1/4" MIN. THICKNESS TYPICAL AND IN CONTRASTING COLORS OF THE DOOR. (TYPICAL) THE GENDER WORD IS LOCATED DIRECTLY UNDER PICTOGRAM

ROOM ID - A 27



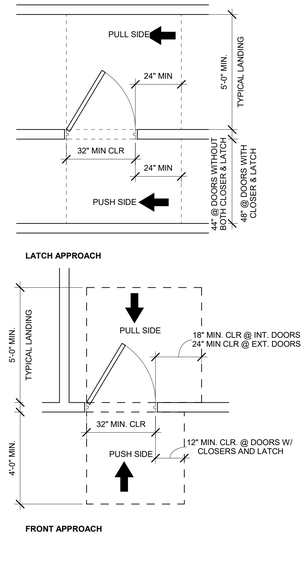
CONTRACTED CALIFORNIA GRADE 2 BRAILLE

MOUNTING HEIGHT:
SIGNS WITH RAISED CHARACTER AND BRAILLE SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.

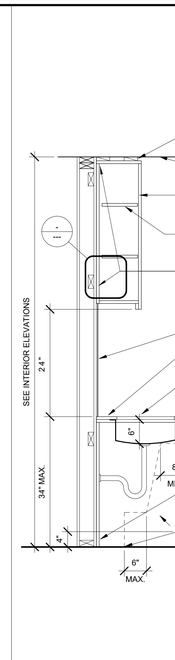
NOTE:
LETTERS AND NUMERALS ARE RAISED 1/32" AND ARE ACCOMPANIED BY GRADE 2 BRAILLE. CHARACTERS ARE MINIMUM 5/8" HIGH AND A MAXIMUM OF 2" HIGH. ATTACH WITH 4 STAINLESS STEEL SCREWS.

SIGN:
1/4" MIN. THICKNESS TYPICAL AND IN CONTRASTING COLORS OF WALL THAT IS INSTALLED. (TYPICAL) RAISED CHARACTERS ARE LOCATED DIRECTLY UNDER PICTOGRAM AND ABOVE BRAILLE, SEE DETAIL HERE.
COLOR: MATCH EXISTING

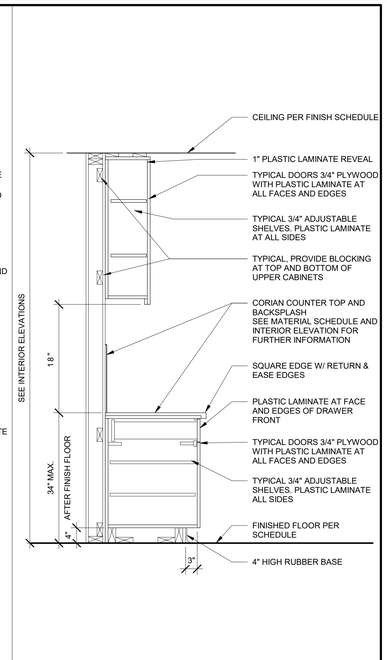
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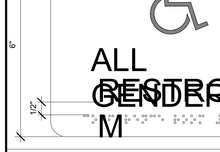
ACCESS. DOOR LANDINGS 12



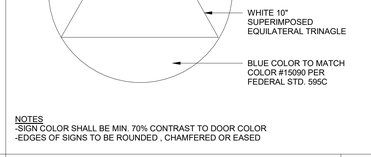
ADA SINK 7



ACCESS. CABINET 2

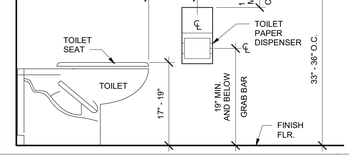


ALL GENDER ROOM ISA 28

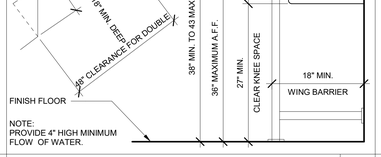


NOTES
-SIGN COLOR SHALL BE MIN. 70% CONTRAST TO DOOR COLOR
-EDGES OF SIGNS TO BE ROUNDED , CHAMFERED OR EASED

ALL GENDER DOOR SIGN 23

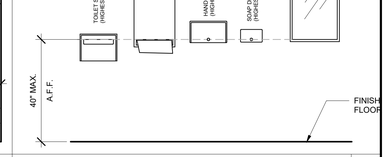


ACC. STALL 13



NOTE:
PROVIDE 4" HIGH MINIMUM FLOW OF WATER.

ACC. DRINKING FOUNTAIN 8



MOUNTING HEIGHTS 3

1) TACTILE CHARACTER TYPE: TCTILE CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED (GRADE 2) BRAILLE. CBC SECTION 11B-703.3
2) TACTILE CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH.CBC SECTION 11B-703.2
3)FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH. CBC SECTION 11B-703.5.1
4)PROPORTIONS: RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FRONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER. CBC SECTION 11B-703.2
5)BRAILLE: CONTRACTED (GRADE 2) BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHERS PORTIONS THESE STANDARDS. DOTS SHALL BE 1/10" ON CENTERS IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND. BRAILLE DOTS SHLL BE DOMED OR ROUNDED. CBC SECTION 11B-703.3.1

CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED. INDIVIDUAL BRAILLE DOTS SHALL EACH BE DISTINCT AND SEPARATE. EACH DOT SHALL BE ROUNDED OR DOMED IN LIEU OF SQUARE SIDED AND FLAT TOPPED.

6)MOUNTING HEIGHT AND LOCATION: SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED 48" MINIMUM TO THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60" MAXIMUM TO THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS ABOVE THE FINISH FLOOR OR GROUND SURFACE. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITH THE SWING OF A DOOR. CBC SECTION 11B-703.4

SIGN LOCATION LEGEND 29

DIRECTIONAL SIGN 24

SIGN MOUNT 19

ACC. STALL 14

INFANT CHANGING STATION 9

ACC. LAVATORY 4

OCCUPANCY SIGNAGE 30

I.S.A. 25

ROOM NAME NUMBER SIGN 20

TACTILE EGRESS SIGNAGE TO BE INSTALLED ON WALL ADJACENT TO LATCH SIDE OF EXIT DOORS AND MOUNTED 60 INCHES ABOVE CENTERLINE OF THE SIGN

TACTILE EXIT SIGNAGE 15

LOCATE GRAB BARS ON EACH SIDE, OR ONE SIDE AND THE BACK, OF THE WATER CLOSET, 33 INCHES ABOVE AND PARALLEL TO THE FLOOR. GRAB BARS AT THE SIDE ARE TO BE AT LEAST 42 INCHES LONG WITH THE FRONT END POSITIONED 24 INCHES IN FRONT OF THE WATER CLOSET. GRAB BARS AT THE BACK CAN NOT BE LESS THAN 36 INCHES LONG. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACE IS REQUIRED TO BE 1 1/2" O.D., OR THE SHAPE IS TO PROVIDE AN EQUIVALENT GRIPPING SURFACE. IF GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS IS TO BE 1 1/2 INCHES. GRAB BARS ARE TO RESIST 250 POUNDS OF DOWNWARD FORCE AND TORSION. GRAB BARS ARE TO BE MADE OF STAINLESS STEEL WITH A PINED SURFACE AND SNAP FLANGES OVER MOUNTING BOLTS.

AT CMU WALL:
3-#16 x 2 1/2" LONG EXPANSION ANCHORS TO WALL STRUCTURE OR AS PROVIDED BY MANUFACTURER

AT STUD WALL:
USE MANUFACTURER'S MOUNTING HARDWARE FOR ATTACHMENT TO WALL STRUCTURE. PROVIDE 1/8" MIN. STEEL PLATE AS BACKING

GRAB BAR TYP. 10

ACCESS. URINAL 5

BOA Architecture Interiors Planning
512 Redondo Ave. Long Beach, CA 90814 Tel. 562-912-7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

No:	DATE	DESCRIPTION	BY

Designer: JS
CAD Drafr: JS
Architect: LN
Engineer:
Client: PALMDALE
Date Issue: 01-22-2026
Job Number: 3148-25

Client:

Consultant:

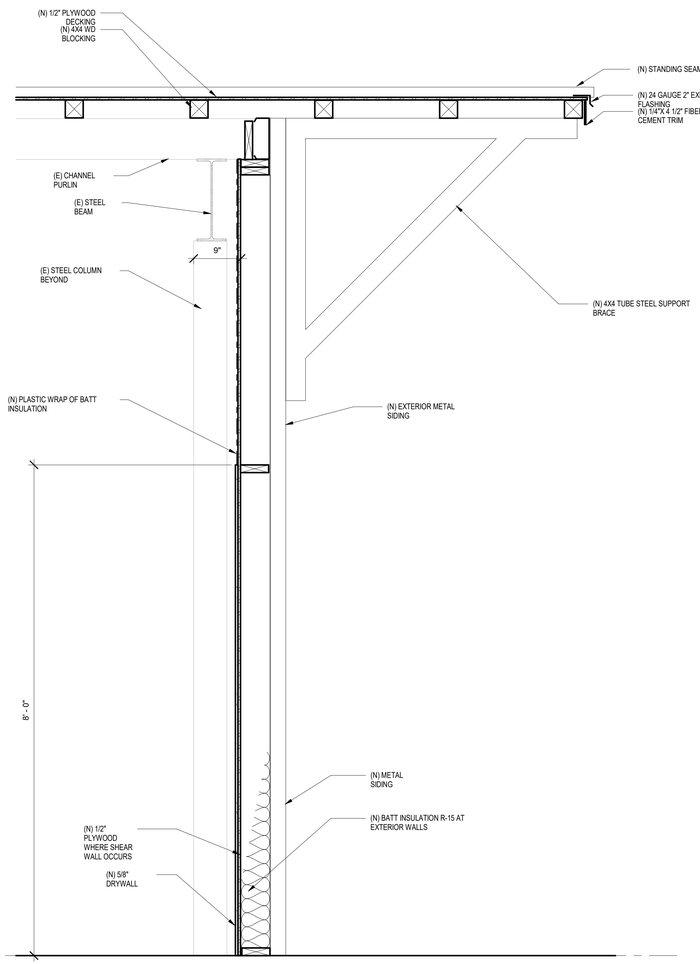
LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN:11/30/27
STATE OF CALIFORNIA

- ACCESSIBLE
- DETAILS
-

A5.1

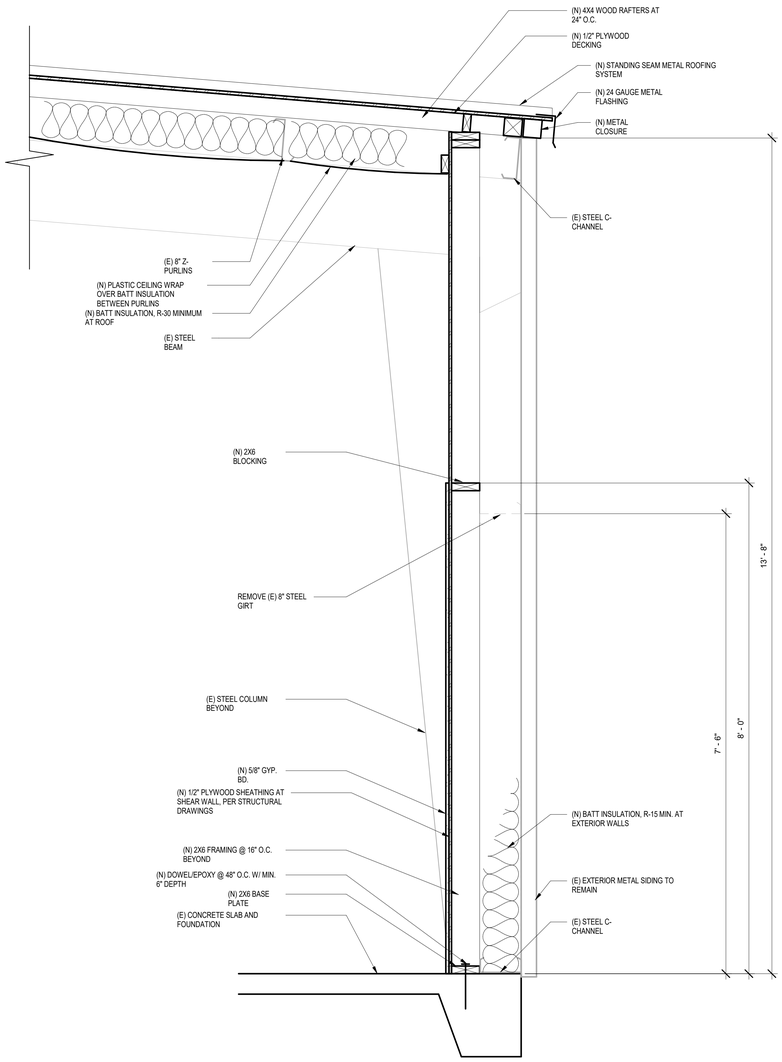
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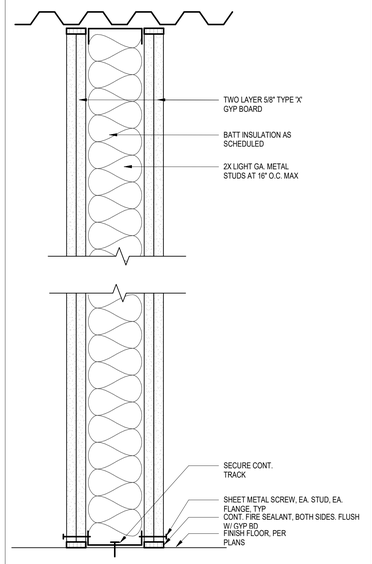
BRACE

SCALE: 1" = 1'-0" | 7



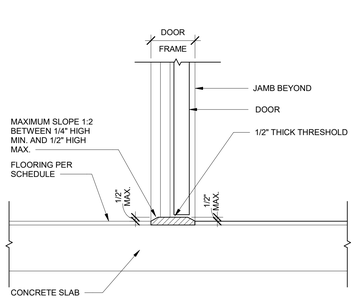
FULL SHEAR WALL SECTION

SCALE: 1" = 1'-0" | 3



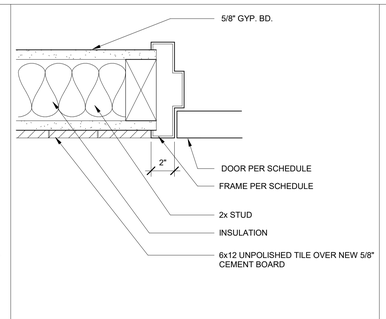
TWO HR FIRE WALL | 1

1 HR FIRE RATED WALL | 2



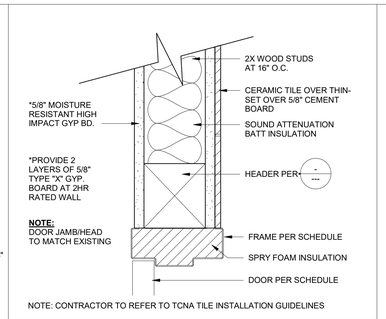
THRESHOLD

SCALE:1 1/2" = 1'-0" | 10



JAMB

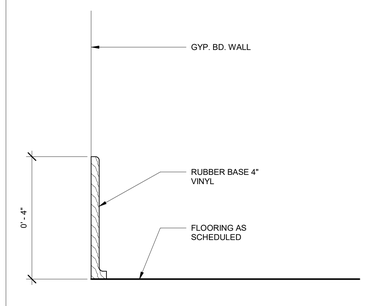
SCALE: 3" = 1'-0" | 9



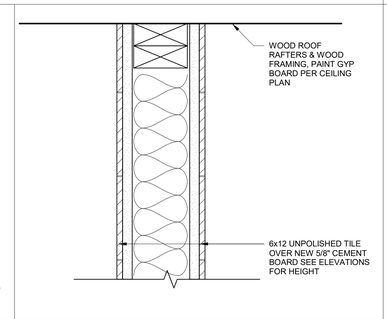
NOTE: CONTRACTOR TO REFER TO TCNA TILE INSTALLATION GUIDELINES

DOOR HEAD/JAMB

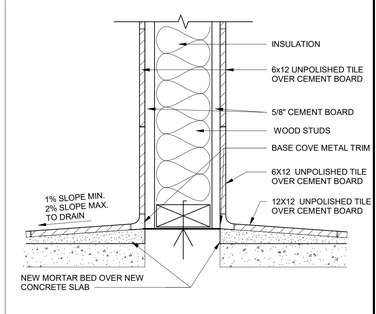
SCALE: 3" = 1'-0" | 8



WALL BASE | 5



WALL TILE | 6



TILE TO FLOOR | 4

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512 Redondo Ave. Long Beach, CA 90814 Tel. 562-912-7900

PALMDALE SAVES
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No.	DATE	DESCRIPTION	BY

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer:
Client: PALMDALE
Date Issue: 01-22-2026
Job Number: 3148-25

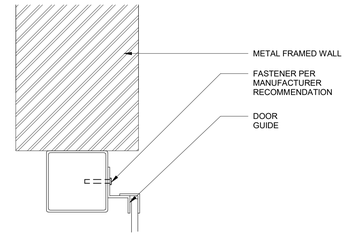
Client:

Consultant:

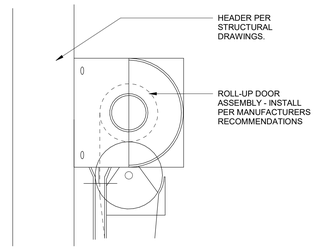
LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN:11/30/27
STATE OF CALIFORNIA

- WALL DETAILS

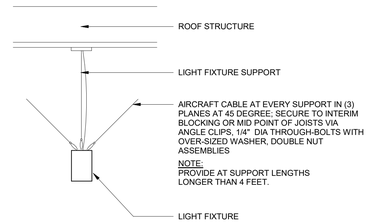
A5.2



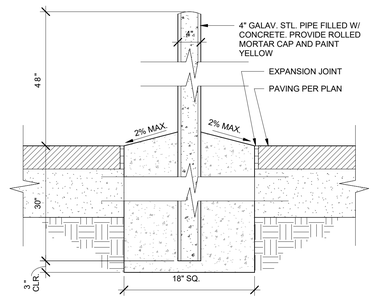
ROLL-UP DOOR JAMB 1



ROLL-UP DOOR HEAD 2



LINEAR HANGING LIGHT 3



BOLLARD 4

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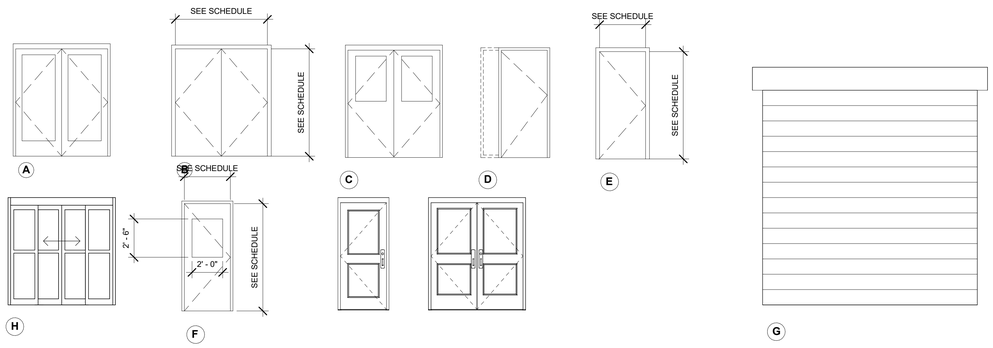
- DETAILS
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A5.3

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DOOR SCHEDULE

MARK	DOOR TYPE	Phase Created	DOOR SIZE			DOOR		FRAME		FIRE RATING	DETAILS			HARDWARE SET	COMMENTS	SIGNAGE	
			WIDTH	HEIGHT	THK.	CONSTRUCT.	FINISH	MATERIAL	FINISH		HEAD	JAMB	THRESHOLD			PUSH SIDE	PULL SIDE
01	H	New Construction	11' - 11"	7' - 9 1/2"	1 3/4"	AL/GL		AL							EXTERIOR AUTOMATIC SLIDING GLASS DOOR. TEMPERED GLAZING		
02	C	New Construction	6' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	003			
03	C	New Construction	6' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	003			
04	A	New Construction	6' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	001			
05	A	New Construction	6' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	001			
07	D	New Construction	3' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	007			
08	D	New Construction	3' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	007			
09	D	New Construction	3' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	007			
10	E	New Construction	3' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	008			
11	E	New Construction	3' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	008			
12	E	New Construction	3' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	009			
13	E	New Construction	3' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	009			
14	F	New Construction	3' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	007			
15	F	New Construction	3' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	007			
16	C	New Construction	6' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	005			
17	C	New Construction	6' - 0"	7' - 0"	1 3/4"	HM		HM		1-HR	8/A5.2	9/A5.2	10/A5.2	005			
18	F	New Construction	3' - 0"	7' - 0"	1 3/4"	HM		HM		1-HR	8/A5.2	9/A5.2	10/A5.2	006			
19	E	New Construction	3' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	010			
20	A	New Construction	6' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	001			
21	B	New Construction	6' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	004			
22	C	New Construction	6' - 0"	7' - 0"	1 3/4"	HM		HM		1-HR	8/A5.2	9/A5.2	10/A5.2	004			
23	B	New Construction	6' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	004			
24	E	New Construction	3' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	010			
25	F	New Construction	3' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	002			
26	F	New Construction	3' - 0"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	002			
27	G	Existing	12' - 0"	12' - 0"	3"	HM					2/A5.3	1/A5.3					
28	C	New Construction	5' - 4"	7' - 0"	1 3/4"	HM		HM			8/A5.2	9/A5.2	10/A5.2	004.2			
29	E	New Construction	3' - 0"	7' - 0"	1 3/4"	HM											



DOOR LEGEND

DOOR HARDWARE LEGEND

HARDWARE GROUP NO. 001
FOR USE ON DOOR #(S): 04, 05, 20

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
2	EA	PANIC HARDWARE	LD-AX-98-L-2SI-17		
	626	VON			
4	EA	RIM CYLINDER	20-057	626	SCH
4	EA	PRIMUS CORE	20-740	626	SCH
2	EA	OH STOP	100S		630
	GLY				
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	KICK PLATE	K0050 10" X 2" LDW	630	TRM
2	EA	GASKETING	429AA-S		AA
	ZER				
2	EA	DOOR SWEEP	39A	A	ZER

HARDWARE GROUP NO. 002
FOR USE ON DOOR #(S): 25, 26

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	PANIC HARDWARE	LD-AX-98-L-2SI-17		626
	VON				
2	EA	RIM CYLINDER	20-057	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP EDA TBWMS	689	LCN
1	EA	KICK PLATE	K0050 10" X 2" LDW	630	TRM
1	EA	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	547A-223		A ZER

90 DEGREE SWING - DOOR CLOSER PREP FOR 110 DEGREE

HARDWARE GROUP NO. 003
FOR USE ON DOOR #(S): 02, 03

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5	630	IVE
1	SET	AUTO FLUSH BOLT	3800 SERIES	626	TRM
1	EA	CLASSROOM LOCK	L9070T 17A	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	DUST PROOF STRIKE	3910/3910N /3911	630	TRM
1	EA	COORDINATOR	3094 SERIES X 3094 FILLER BAR	BLK	TRM
2	EA	MOUNTING BRACKET	3095/3096	689	TRM
2	EA	OH STOP	100S	630	GLY
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	KICK PLATE	K0050 10" X 1" LDW	630	TRM
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	MEETING STILE	44STST	STST	ZER

HARDWARE GROUP NO. 004
FOR USE ON DOOR #(S): 21, 22, 23

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5	630	IVE
1	SET	AUTO FLUSH BOLT	3800 SERIES	626	TRM
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	DUST PROOF STRIKE	3910/3910N /3911	630	TRM
1	EA	COORDINATOR	3094 SERIES X 3094 FILLER BAR	BLK	TRM
2	EA	MOUNTING BRACKET	3095/3096	689	TRM
2	EA	OH STOP	100S	630	GLY
2	EA	SURFACE CLOSER	4041 DEL	689	LCN
2	EA	KICK PLATE	K0050 10" X 2" LDW	630	TRM
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	MEETING STILE	44STST	STST	ZER

HARDWARE GROUP NO. 004.2
FOR USE ON DOOR #(S): 28

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5	630	IVE
1	SET	AUTO FLUSH BOLT	3800 SERIES	626	TRM
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	DUST PROOF STRIKE	3910/3910N /3911	630	TRM
1	EA	COORDINATOR	3094 SERIES X 3094 FILLER BAR	BLK	TRM
2	EA	MOUNTING BRACKET	3095/3096	689	TRM
2	EA	OH STOP	100S	630	GLY
2	EA	SURFACE CLOSER	4041 DEL	689	LCN
2	EA	KICK PLATE	K0050 10" X 1" LDW	630	TRM
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	MEETING STILE	44STST	STST	ZER

HARDWARE GROUP NO. 005
FOR USE ON DOOR #(S): 16, 17

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5		630
	IVE				
2	EA	FIRE EXIT HARDWARE	AX-9927-L-F-2SI-LBR-17-499F	626	VON
4	EA	RIM CYLINDER	20-057	626	SCH
4	EA	PRIMUS CORE	20-740	626	SCH
2	EA	OH STOP	100S		630 GLY
	GLY				
2	EA	SURFACE CLOSER	4041 DEL EDA	689	LCN
2	EA	KICK PLATE	K0050 10" X 1" LDW	630	TRM
2	EA	GASKETING	188SBK	BK	ZER
2	SET	MEETING STILE	328AA-S		

HARDWARE GROUP NO. 006
FOR USE ON DOOR #(S): 18

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY	UNIT	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	PANIC HARDWARE	LD-AX-98-L-2SI-17		626
	VON				
2	EA	RIM CYLINDER	20-057	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4041 DEL EDA	689	LCN
1	EA	KICK PLATE	K0050 10" X 2" LDW	630	TRM
1	EA	GASKETING	188SBK	BK	ZER

90 DEGREE SWING - DOOR CLOSER PREP FOR 110 DEGREE

HARDWARE GROUP NO. 007
FOR USE ON DOOR #(S): 07, 08, 09, 14, 15

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA	OFFICE/ENTRY LOCK	L9050T 17A 09-544		626 SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	UNIVERSAL DOME FLOOR STOP	1211		626 TRM
2	EA	GASKETING	188SBK	BK	ZER
1	EA	DOOR BOTTOM	360AA		AA ZER

HARDWARE GROUP NO. 008
FOR USE ON DOOR #(S): 10, 11

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY	UNIT	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA	PASSAGE SET	L9010 17A	626	SCH
1	EA	SURFACE CLOSER	4041 DEL	689	LCN
1	EA	KICK PLATE	K0050 10" X 2" LDW	630	TRM
1	EA	WALL STOP	1270CX	626	TRM
1	EA	GASKETING	188SBK	BK	ZER

90 DEGREE SWING - DOOR CLOSER PREP FOR 110 DEGREE
STONE THRESHOLD - SEE FLOORING

HARDWARE GROUP NO. 009
FOR USE ON DOOR #(S): 12, 13

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY	UNIT	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA	CORRIDOR LOCK W/ OUTSIDE INDICATOR	LN458T 17A L283-363 OS-OCC	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4041 DEL	689	LCN
1	EA	KICK PLATE	K0050 10" X 2" LDW	630	TRM
1	EA	WALL STOP	1270CX	626	TRM
1	EA	GASKETING	188SBK	BK	ZER

90 DEGREE SWING - DOOR CLOSER PREP FOR 110 DEGREE
INDICATOR AT EXTERIOR ONLY

HARDWARE GROUP NO. 010
FOR USE ON DOOR #(S): 19, 24

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY	UNIT	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA	STOREROOM LOCK	L9080T 17A	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4041 DEL	689	LCN
1	EA	KICK PLATE	K0050 10" X 2" LDW	630	TRM
1	EA	UNIVERSAL DOME FLOOR STOP	1211	626	TRM
1	EA	GASKETING	188SBK	BK	ZER

90 DEGREE SWING - DOOR CLOSER PREP FOR 110 DEGREE

MATERIAL SCHEDULE

MARK	MATERIAL	MANUFACTURER	MODEL	FINSIH	COMMENTS	TYPES
CASEWORK						
SS-1	SOLID SURFACE	CEARSARSTONE		6011 INTENSE WHITE	CONTERTOPS AT RESTROOM, BREAK ROOM, AND FRONT DESK WORK STATIONS	CASEWORK
FLOOR						
CT-01	CARPET TILE	MOHAWK	GT470 -	859 TAUPE	IN OFFICES	FLOOR
CT-02	CARPET TILE		TUFF STUFF II	TBD	ENTRY CARPET AT ENTRANCE	FLOOR
PC-1	CONCRETE		N/A	POLISHED	LEVEL 3, MEDIUM GLOSS. PROVIDE SAMPLE FOR APPROVAL BEFORE APPLICATION	FLOOR
WB-1	WALL BASE	RUBBER	4"	TBD	INTERIOR WALLS, U.O.N.	FLOOR
WALLS						
PT-1	PAINT		TBD	SEMIGLOSS	INTERIOR WALLS AND CEILING	WALLS
PT-2	PAINT		TBD		EXTERIOR WALLS	WALLS
PT-3	PAINT		TBD	SEMIGLOSS	DOOR	WALLS
TL-1	WALL TILE		4X4		AT RESTROOMS WITH COVE BASE TO MATCH. GROUT JOINT TO BE 1/8"MIN GROUT: tbd	WALLS

PLUMBING FIXTURE SCHEDULE

Type Mark	Manufacturer	Model	Comments	Count
WC-1	AMERICAN STANDARD	3461.128	TOILET	6
FC-1	KOHLER	K-7514	LAV.FAUCET. TO BE USED WITH LAV-1 U.N.O. REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION.	6
HB-1	ACORN	8151	HOSE BIBB	1
DK-1	ELKAY	EZSTLDDWSLK	DRINKING FOUNTAIN WITH BOTTLE FILLING STATION AND BI-LEVEL ADA STAINLESS MODEL. REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION	1
FD-1	JR SMITH	2115-A	FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION.	9
SK-2	ELKAY	ELUHAD-2816-4SPD	UNDERMOUNT KITCHENETTE SINK. TO BE USED WITH FC-2 U.N.O. REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION.	2
FC-2	GLACIER BAY	FP4A0105BNV	KITCHENETTE FAUCET. TO BE USED WITH SK-2 U.N.O.REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION.	2
MS-1	AMERICAN STANDARD	7741000.020	MOP SINK	1
SK-1	ELKAY	B1C18X18X	UTILITY SINK. TO BE USED WITH FC-3 U.N.O. REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION.	2
FC-3	CHICAGO	50-317XKABCP	TO BE USED WITH SK-1 U.N.O. REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION.	1
UR-1	AMERICAN STANDARD	6590.525	URINAL. REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION.	2
LAV-1	KOHLER	K-2210	RESTROOM LAVATORY. TO BE USED WITH FC-1 U.N.O. REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION.	6
WH-1	AO SMITH	DEN-30	ELECTRIC WATER HEATER, 30 GALLON TANK TYPE. REFER TO PLUMBING AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.	1

PLUMBING ACC. SCHEDULE

Type Mark	Manufacturer	Model	Comments	Count	PLUMBING ACC	Type
MR-1	Bobrick Washroom Equipment, Inc.	B-165 Series		6	Yes	B-165 2436
GB-1	Bobrick Washroom Equipment, Inc.	B-6897 42x54 SERIES		3	Yes	B-68137
AC-2	Bobrick	B-3091		2	Yes	left side while seated B-3091
AC-1	Bobrick	B-3092		2	Yes	RIGHT SIDE WHILE SEATED

Specialty Equipment Schedule

Type Mark	Manufacturer	Model	Comments	Count	PLUMBING ACC	Type
CG-1	Inpro	Aluminum Corner Guard	CORNER GUARD	1	No	4' Height - 2" Wing
WC-1			WALK IN FREEZER 800 CF	1		8' x10x10
IC-1	ICE-O-MATIC	GEMU090	ICE MAKER, UNDERCOUNTER	1	No	18" wide kitchenair
WC-2			WALK IN REF 2000 CF	1		2000 CF
WC-3			WALK IN FREEZER 2280 CF	1		2280 CF
LO-1	Salsbury Industries	33165	LOCKER	1	No	33165
LO-3	Salsbury Industries	33365	LOCKER	3	No	33365
PT-1	Bobrick Washroom Equipment, Inc.	B-396		3		B-396
BC-1	BOBRICK OR APPROVED EQUAL			3		Baby_Changing_Station_-_KB100_7300
FR-1	KITCHENAID	KRFC704FPS	BREAKROOM REF.	1	No	F & P French Door Refrigerator
FR-3	Beverage-Air	HRS2HC-1G	DOUBLE DOOR, GLASS REFRIGERATOR	4	No	QF_Beverage-Air_HRS2HC-1G
FR-2	TBD	TBD	MINI-FRIDGE IN MULTI PURPOSE ROOM	1	No	under counter fridge - edge star 18 inch wide 80 can capacity - stainless steel

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BOA Architecture Interiors Planning
512 Redondo Ave. Long Beach, CA 90814 Tel. 562-912-7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

No.	DATE	DESCRIPTION	BY

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer:
Client: PALMDALE
Date Issue: 01-22-2026
Job Number: 3148-25

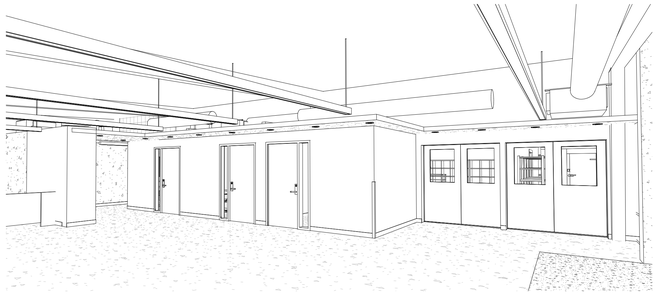
Client:

Consultant:

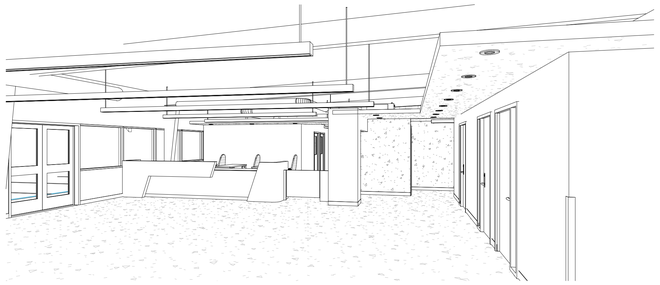
LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN.11/30/27
STATE OF CALIFORNIA

- SCHEDULES
-
-

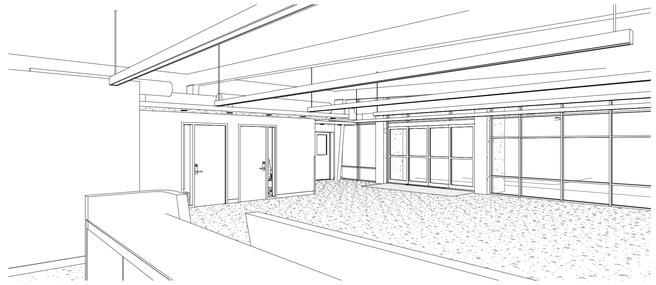
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3 Lobby - 1

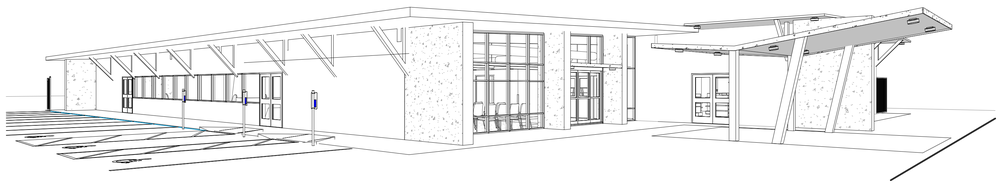


4 Lobby - 2

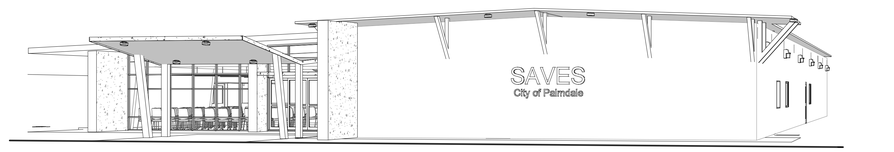


5 Lobby - 3





1 3D View 2



2 3D View 3









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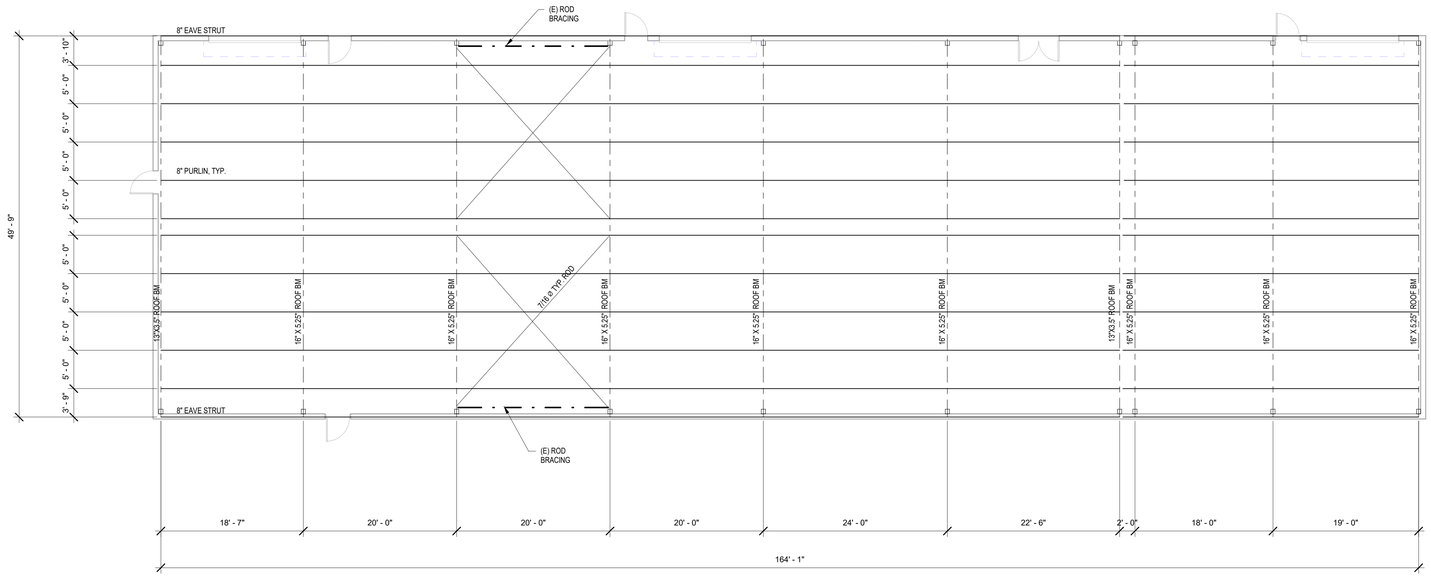
Consultant:

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Edward Lok Ng
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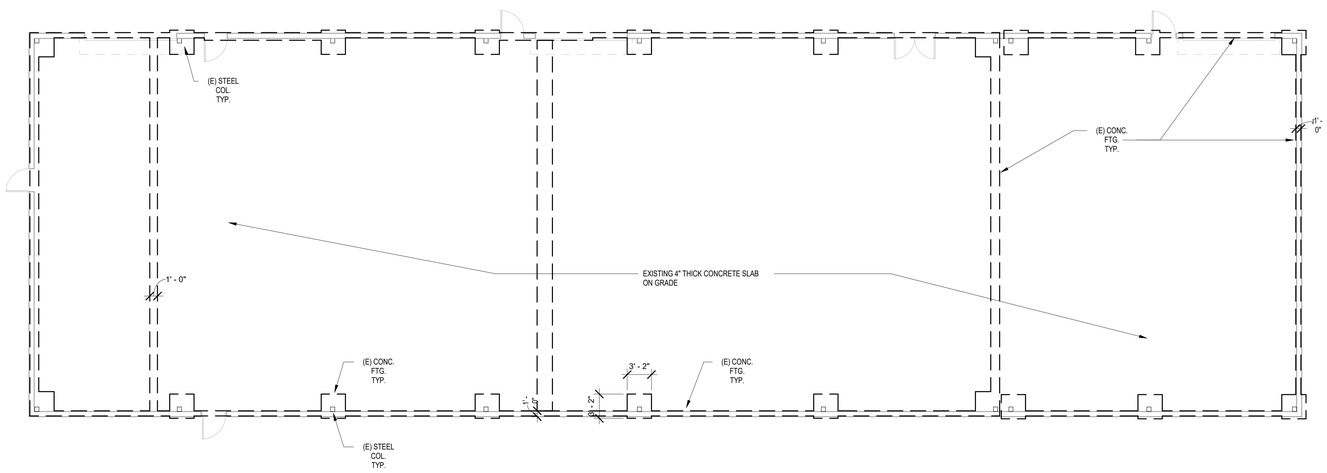
- 3D RENDERS

RD-1

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1 EXISTING FRAMING PLAN
SCALE: 1/8" = 1'-0"



2 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

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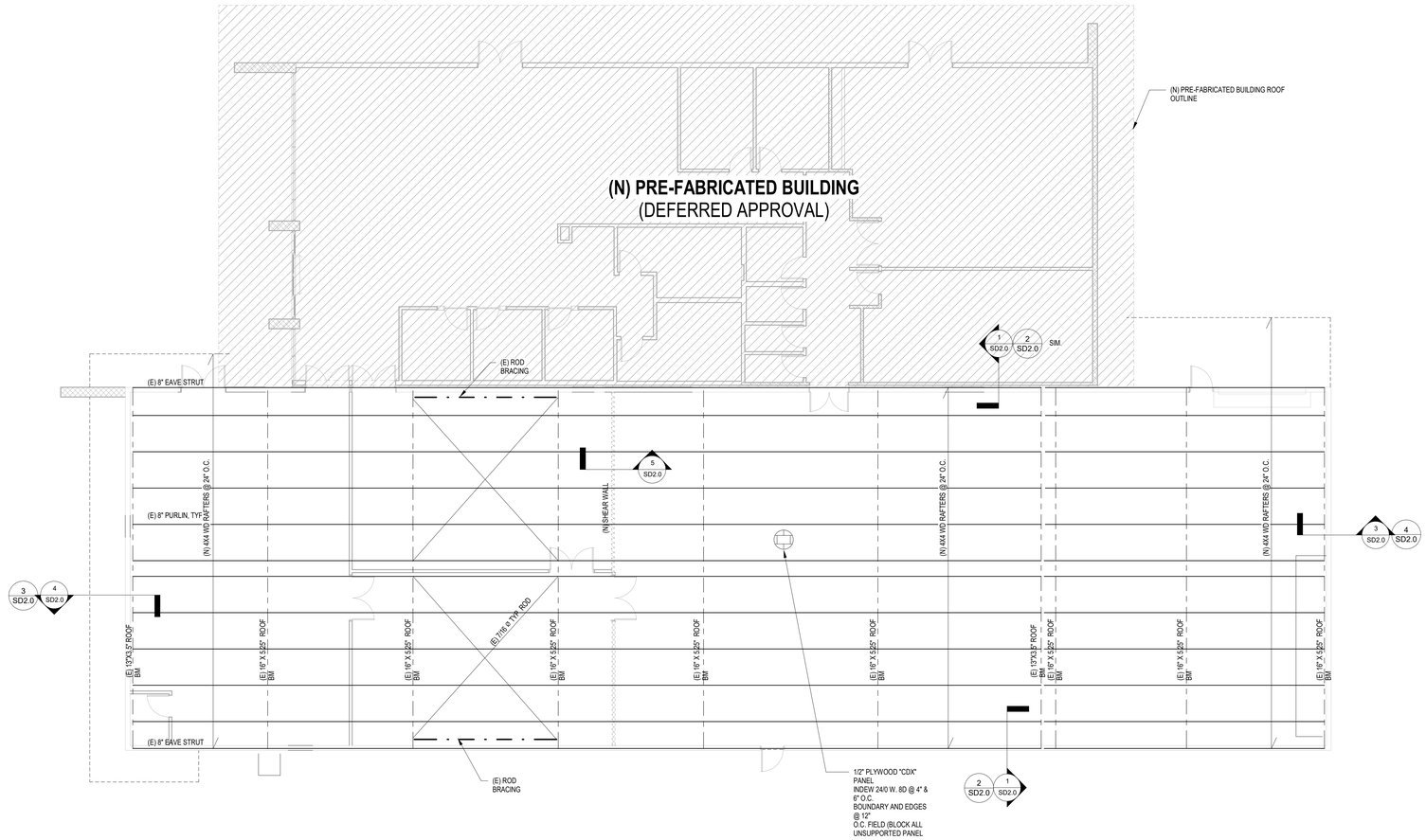
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Consultant:

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- EXISTING
- STRUCTURAL
-

S1.0



1 ROOF FRAMING

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

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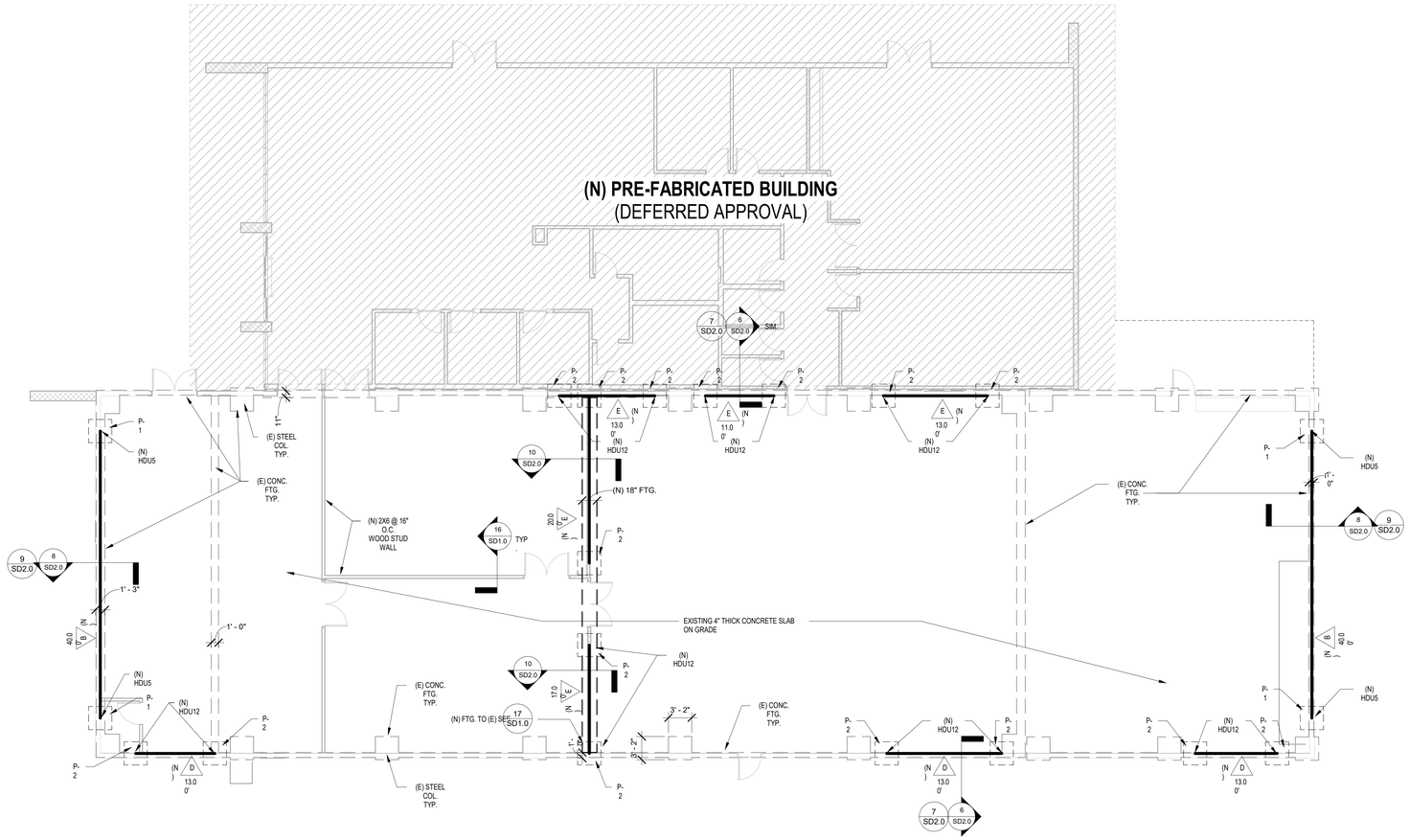
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- FRAMING PLAN
-
-

S2.0

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

NEW CONCRETE PAD FOOTINGS

P-1 2' - 6" SQ. X 18" THICK
W/ 4 - #4 EA. WAY

P-2 3' - 0" SQ. X 18" THICK 9 SD1.0
W/ 6 - #4 EA. WAY

NOTE: PAD FOOTINGS SHALL BE CENTERED UNDER 4X6 VERT. POST AT HOLDOWN.

FOUNDATION NOTES

GEOTECHNICAL INVESTIGATION BY:
GLOBAL GEO ENGINEERING, INC.
IRVINE, CA
TEL (949) 221-0990

ALL SUBGRADE PREPARATION SHALL BE INSPECTED AND APPROVED BY SOILS ENGINEER AND CONTRACTOR SHALL ADHERE TO RECOMMENDATIONS LISTED IN THE SOILS REPORT.

NOTES

1. TYPICAL WOOD STUD WALL DETAIL 12 SD1.0
2. B ON PLAN INDICATES SHEAR WALL 11 SD1.0 19 SD1.0
3. "HDU5" ON PLAN INDICATES HOLDOWN, SEE Dg7/A/SD1.0 13 SD1.0 WHERE 15 SD1.0 OR USE
4. USE 2X4 STUDS AT WALL 10'-0" HT OR LESS. USE 2X6 STUDS AT WALLS WHICH EXCEED 10'-0" IN HT.
5. USE DETAIL 10 SD1.0 WHERE CONDUITS ARE REQUIRED.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS
SPECIAL INSPECTIONS ARE REQUIRED TO BE INSPECTED BY A DEPUTY INSPECTOR REGISTERED AND APPROVED BY THE CITY.
- SHEAR WALLS WITH NAILS ARE SPACED 4" O.C. OR LESS.
- EPOXY GROUT SIMPSON "SET-3G" TO EXISTING CONCRETE.

STRUCTURAL OBSERVATIONS
STRUCTURAL OBSERVATIONS ARE REQUIRED TO BE PERFORMED BY THE ENGINEER OF RECORD FOR FOUNDATION WORK AND SHEAR WALLS AFTERWARD.

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CAD Draft: KN
Architect: LN
Engineer:
Client: PALMDALE
Date Issue: 01-22-2026
Job Number: 3148-25

Client:

Consultant:

LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN:11/30/27
STATE OF CALIFORNIA

- FOUNDATION PLAN

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SYM.	STUD S	SHEAR PANEL ONE SIDE	SILL* PLATE S	A BOLTS TO FTG. AT GROUND FLOOR ONLY	"A 35" @	CAP PL
A	2X4 @ 16" O.C.	15/32" CDX STRUCT. I 8d @ 6", 6", 12" O.C.	2X PLATE W/ A.B.	5/8" DIA. X 12" @ 60" O.C.	24" O.C.	210
B	2X4 @ 16" O.C. 3x4 PANEL LEDGER	15/32" CDX STRUCT. I 8d @ 4", 4", 12"	2X PLATE W/ A.B.	5/8" DIA. X 12" @ 32" O.C.	16" O.C.	320
C	2X4 @ 16" O.C. 3x4 PANEL LEDGER	15/32" CDX STRUCT. I 8d @ 3", 3", 12"	2X PLATE W/ A.B.	5/8" DIA. X 12" @ 42" O.C.	12" O.C.	410
D	2X4 @ 16" O.C. 3x4 PANEL LEDGER	15/32" CDX STRUCT. I 8d @ 2", 2", 12"	2X PLATE W/ A.B.	5/8" DIA. X 12" @ 56" O.C.	10" O.C.	550
E	2X4 @ 16" O.C. 3x4 PANEL LEDGER	15/32" CDX STRUCT. I 10d @ 2", 2", 12"	2X PLATE W/ 16d @ 2"	5/8" DIA. X 12" A.B. @ 24" O.C.	8" O.C.	650

*P.W." = PLYWOOD
* 3 X PLATE IS REQUIRED AT MUD STILL OVER FOUNDATION ONLY.
FOR CONDITIONS OVER FLOOR JOISTS USE 2 X PLATE TYP.
SILL PLATE NAILING IS NOT REQUIRED AT MUD SILL AT FOUNDATION.

NOTES:
1. BLOCK ALL UNSUPPORTED EDGES OF PLYWOOD SHEATING.

2. WHERE NAIL SPACING IS 2" O.C. FRAMING AT ADJOINING PANEL EDGES SHALL BE 3X OR WIDER AND NAILS SHALL BE STAGGERED.

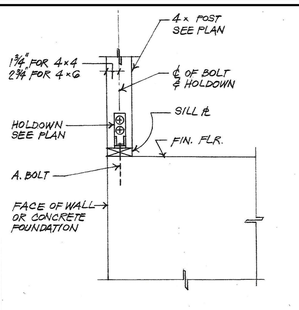
3. FOR PLYWOOD THAT IS NOT PART OF SHEAR WALL, BUT IT IS IN THE SAME PLANE, USED fd @ 12" O.C. ALL BEARING, COVER ALL EXTERIOR WALLS COMPLETELY WITH PLYWOOD AT WORK AREA.

4. WHERE A. BOLTS TO BE INSTALLED TO EXISTING CONCRETE FOOTING, USE SIMPSON "SET-XP" EPOXY ANCHORS WITH 5" EMBEDMENT INTO CONCRETE. SPECIAL INSPECTION IS REQUIRED. ICC-ES ESR-2508.

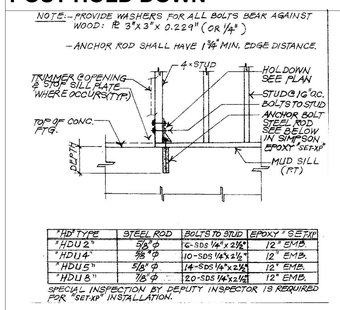
5. USE PLATE WASHERS WITH ANCHOR BOLTS AND BOLTS BEAR ON WOOD: 5/8" DIA. BOLT - 3" X 3" X 1/4" PLATE.

6. REDUCE ANCHOR BOLT'S SPACING IN HALF WHERE SHEAR PANEL OCCURS ON BOTH SIDES.

SHEAR WALL SCHEDULE 11



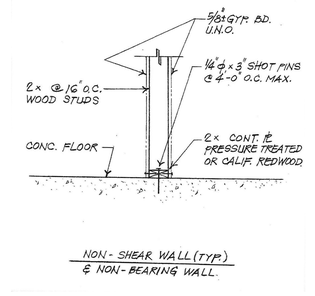
POST HOLD DOWN 14



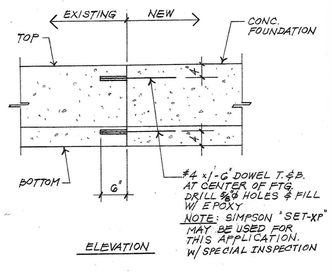
"HDT" TYPE	STEEL ROD	BOLTS TO STUD	EPOXY "SET-XP"
"HDU2"	⅝"ϕ	6-SDS ¼"x 2½"	12" EMB.
"HDU4"	⅝"ϕ	10-SDS ¼"x 2½"	12" EMB.
"HDU5"	⅝"ϕ	14-SDS ¼"x 2½"	12" EMB.
"HDU8"	⅞"ϕ	20-SDS ¼"x 2½"	12" EMB.

SPECIAL INSPECTION BY DEPUTY INSPECTOR IS REQUIRED FOR "SET-XP" INSTALLATION.

HOLDOWN TO EX. FTG. 15



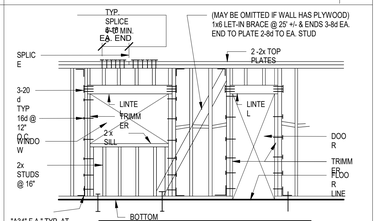
NON-SHEAR WALL 16



FOUNDATION DETAIL 17

NOTES:
1. HOLDOWNS TO BE RE-TIGHTENED PRIOR TO WALL COVERING.
2. USE 4'-0" X 8'-0" PLYWOOD SHEETS WHERE POSSIBLE.
3. EDGE NAILING AT SIDES OF PANELS TO BE TO MEMBERS CONNECTED TO HOLDOWN ANCHORS.
4. MINIMUM WIDTH OF PLYWOOD TO BE 2'-0".
5. ALL NAILING TO BE MIN. OF 1/2" TO EDGE OF SUPPORT AND SHEET.
6. PLYWOOD TO BE STRUCT. I WITH EXTERIOR GLUE.
7. WHERE REQUIRED, PROVIDE SPECIAL INSPECTION PER CITY AND ENGINEER

SHEAR WALL ELEV. 19



4" STUDS	6" STUDS	MAX ALLOW SPANS	TRIMMER
4x4	4x6	4'-0"	2x MIN.
4x6	6x6	6'-0"	2x MIN.
4x8	6x8	8'-0"	3x MIN.
4x10	6x10	10'-0"	3x MIN.
4x12	6x12	12'-0"	4x MIN.

UNLESS OTHERWISE NOTED OR DETAILED

FRAMING DETAIL 12

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING WORK, REPORTING ANY DISCREPANCIES TO THE CITY AND THE DESIGNER.
2. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS ON THE DRAWINGS.
3. THE DRAWINGS ARE THE PROPERTY OF THE DESIGNER.
4. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE OF LOCAL CODES AND ORDINANCES.
5. WORKER'S COMPENSATION INSURANCE:
   A. CONTRACTOR AND SUB-CONTRACTOR SHALL PURCHASE AND MAINTAIN, COMPLETE COVERAGE TO PROTECT THE CLAIMS UNDER WORKERS COMPENSATION ACTS, AND SHOW PROOF THEREOF.
6. UTILITY SERVICES: CONTRACTORS AND SUB-CONTRACTORS SHALL CONFIRM LOCATIONS OF UTILITIES AND NOTIFY ALL PERSONS WORKING ON SITE OF EXISTING UTILITIES. CONTRACTOR SHALL LOCATE AND IDENTIFY ACTIVE UTILITY SERVICES AND TEMPORARY DE-ACTIVATE THEM WHEN THEY CONSTITUTE A HAZARD. LOCATION OF GAS, ELECTRIC AND WATER METERS TO CONFORM WITH UTILITY COMPANY REQUIREMENTS.
7. PROTECT EXISTING CONSTRUCTION FINISHES, ADJACENT PROPERTY, PLANTING AND TREES. PROTECT THE WORK FROM RAIN AND OTHER NATURAL ELEMENTS. REPAIR, REFINISH, OR REPLACE ANY ITEMS DAMAGED DURING CONSTRUCTION.
8. TEMPORARY ELECTRIC AND WATER SERVICES FURNISHED AND PAID FOR BY THE CONTRACTOR UNLESS OTHERWISE STATED.
9. CONTRACTOR SHALL PROVIDE TEMPORARY TOILET IN ACCORDANCE WITH LOCAL ORDINANCES IF NO EXISTING TOILET AVAILABLE ON SITE, UNLESS OTHERWISE STATED.
10. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT HIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE DESIGNER

REINFORCING STEEL

1. REINFORCED STEEL SHALL CONFORM TO ASTM A615, GRADE 40 FOR SIZES #3 AND #4 GRADE 60 FOR SIZES #5 AND LARGER.
2. WELDED FABRIC (MESH) SHALL CONFORM TO THE LATEST REVISED ASTM A185. SMOOTH WIRE FABRIC SHALL CONFORM TO ASTM A85 YIELD STRENGTH 60 KSI
3. ALL BARS IN MASONRY SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS (2'-0" MIN.) AT ALL SPLICES UNLESS NOTED OTHERWISE.
4. ALL BARS I N CONCRETE SHALL BE LAPPED A MINIMUM OF 36 BAR DIAMETERS (2'-0" MIN.) AT ALL SPLICES UNLESS NOTED OTHERWISE.
5. SPLICES OF HORIZONTAL REBAR IN WALLS AND FOOTINGS SHALL BE STAGGERED 4'-0" MINIMUM. ALL BENDING OF REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA BUILDING CODE.

CONCRETE

1. CONCRETE SHALL BE 2,500 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.
2. CONCRETE: 1 PART CEMENT, 2 1/2 PARTS SAND, AND 3 1/2 PARTS 3/4" DIA. ROCK. TOTAL WATER SHALL NOT EXCEED 7 GALLONS PER SACK OF CEMENT.
3. GROUT: 1 PART CEMENT, 3 PARTS SAND, 2 PARTS 3/8" DIA. MAXIMUM PEA GRAVEL OR APPROVED EQUAL.
4. CEMENT SHALL BE TYPE I OR TYPE II PORTLAND "S" PER ASTM C-150.

NAILING SCHEDULE1

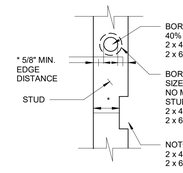
1. JOIST TO SOIL OR GIRDER, TOE NAIL---------- 3-8d
2. BRIDGING TO JOIST, TOE NAIL EACH END---------- 2-8d
3. 1" X 6" SUBFLOOR OR LESS TO EACH JOIST, FACENAIL---------- 2-8d
4. WIDER THAN 1" X 6" SUBFLOOR TO EACH JOIST, FACE NAIL---------- 3-8d
5. 2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL---------- 2-16d
6. SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL---------- 16d @ 16" O.C.
7. TOP PLATE TO STUD, END NAIL---------- 2-16d
8. STUD TO SOLE PLATE---------- 4-8d, TOENAIL OR 2-16d, END NAIL
9. DOUBLE STUDS, FACE NAIL----------16d @ 24" O.C.
10. DOUBLE TOP PLATES, FACE NAIL----------16d @16" O.C.
11. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL---------- 2-16d
12. CONTINUOUS HEADER, TWO PIECES---------- 16d @ 16" O.C. ALONG EACH EDGE
13. CEILING JOISTS TO PLATE, TOE NAIL---------- 3-8d
14. CONTINUOUS HEADER TO STUD, TOE NAIL---------- 4-8d
15. CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL---------- 3-16d
16. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL---------- 3-16d
17. RAFTER TO PLATE, TOE NAIL---------- 3-8d
18. 1" BRACE TO EACH STUD AND PLATE, FACE NAIL---------- 2-8d
19. 1" x 8" SHEATHING TO EACH BEARING, FACE NAIL---------- 2-8d
20. WIDER THAN 1" X 8" SHEATHING TO EACH BEARING, FACE NAIL---------- 3-8d
21. BUILT-UP CORNER STUDS----------16d @ 24" O.C.
22. DOUBLE TOP PLATES, LAP SPLICE---------- 8-16d
23. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATES, TOE NAIL-- 3-8d
24. BUILT-UP GIRDER AND BEAMS---------- 20d @ 32" O.C. @ TOP AND BOTTOM AND STAGGERED 2-20d AT ENDS AND AT EACH SPLICE.
25. RIM JOIST TO TOP PLATE, TOE NAIL----------8d @ 6" O.C.

CARPENTRY

1. ALL LUMBER SHALL BE NO. 2 GRADE MARKED DOUGLAS FIR LARCH FOR VERTICAL MEMBERS, HORIZONTAL MEMBERS AND STUDS, AND NO. 1 DOUGLAS FIR FOR BEAMS AND HEADERS INCLUDING 4 X POSTS OR LARGER.
2. PLYWOOD SHALL CONFORM TO U.S. PRODUCT STANDARDS PS-1 DOUGLAS FIR NO. 1 OR "CDX" WHEN NOTED ON DRAWINGS AND SHALL BE INSPECTED BEFORE BEING COVERED.
3. WOOD SILLS SHALL BE PRESSURE-TREATED DOUGLAS FIR, U.N.O. WHEN THEY ARE IN CONTACT WITH CONCRETE OR MASONRY WITHIN 48" OF THE GROUND.
4. GALVANIZED NAILS SHALL BE USED FOR EXTERIOR WOOD. ALL NAILS SHALL BE COMMON WIRE OR GALVANIZED BOX FOR SHEAR WALLS AND DIAPHRAGMS.
5. ALL FINISH WOOD, EXTERIOR AND INTERIOR, SHALL BE NAILED WITH FINISH NAILS AND COUNTERSUNK.
6. DO NOT CUT STRUCTURAL MEMBERS FOR PIPES, ETC., UNLESS SPECIFICALLY DETAILED OR STATED IN THE CODE.
7. FIRE STOPS: PROVIDE BLOCKING AT ALL INTERSECTIONS OF STUD WALLS TO FLOOR, STAIRS, CEILING, ROOF, AND FURRED SPACES.
8. ALL LUMBER SHALL BE DOUGLAS FIR LARCH TYPE.
9. PROVIDE STANDARD PLATE WASHERS FOR BOLTS BEAR ON WOOD. U.N.O.
10. JOISTS AND RAFTERS SHALL BE BLOCKED WITH 2 X @ 8'-0" O.C. MAX.
11. DOUBLE FLOOR JOISTS WHERE THEY ARE PARALLEL TO PARTITIONS.

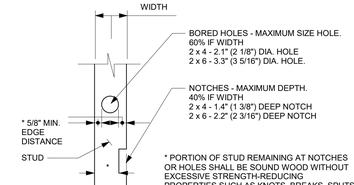
METAL

1. CONTRACTOR TO FURNISH ALL STRUCTURAL, MISCELLANEOUS AND CONNECTOR STEEL AS NOTED ON DRAWINGS.
2. STRUCTURAL STEEL SHAPES: ASTM A-36, FABRICATION AND ERECTION TO COMPLY WITH THE LATEST EDITION AISC "MANUAL OF STEEL CONSTRUCTION"
3. STEEL TUBING: ASTM A-500, GRADE "B", 46 KSI.
4. STEEL PIPE: ASTM A-53, GRADE "B" 35 KSI.
5. BOLTS, NUTS, AND WASHER: ASTM A-307, GRADE "A".
6. PLATES AND BARS: ASTM A-283, GRADE "C", CARBON STEEL PLATE.
7. WROUGHT IRON: ASTM A-223.
8. PAINTING: SHOP PRIME ALL SHOP FABRICATED STEEL. TOUCH UP PRIMER AFTER ERECTION.

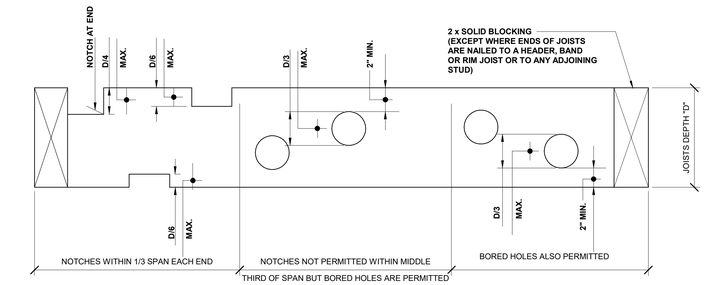


EXTERIOR WALLS AND BEARING WALLS

EXT. BEARING WALL

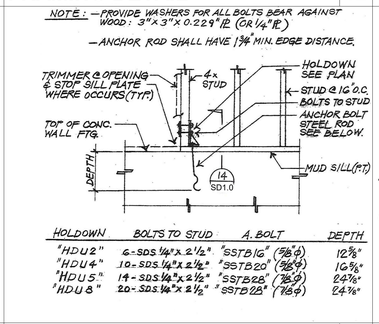


INT. NON BEARING



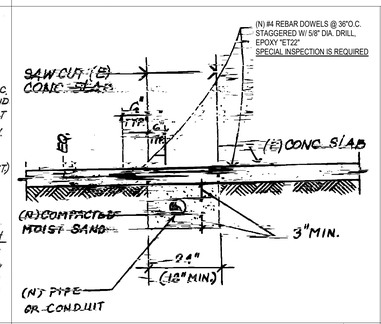
FLOOR JOIST

CUTTING, NOTCHING AND BORING 8

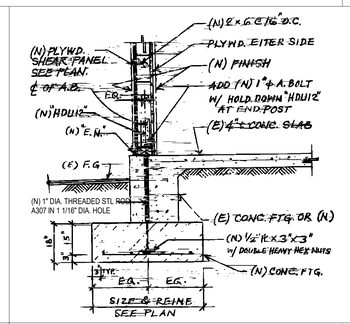


HOLDOWN	BOLTS TO STUD	A. BOLT	DEPTH
"HDU2"	6-SDS ¼"x 2½"	"SSTB16" (5/8ϕ)	12⅜"
"HDU4"	10-SDS ¼"x 2½"	"SSTB20" (7/8ϕ)	16⅝"
"HDU5"	14-SDS ¼"x 2½"	"SSTB28" (7/8ϕ)	24⅞"
"HDU8"	20-SDS ¼"x 2½"	"SSTB28" (7/8ϕ)	24⅞"

HOLDOWN TO NEW FTG 13



detail 10 - sd1 10



DETAIL 9

BOA Architecture Interiors Planning
512 Redondo Ave. Long Beach, CA 90814 Tel. 562-912-7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

No.	DATE	DESCRIPTION

Designer: KN
CAD Draft: KN
Architect: LOK
Engineer:
Client: PALMDALE
Date Issue: 01-22-2026
Job Number: 3148-25

Client:

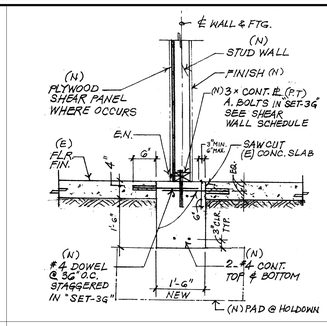
Consultant:
STRUCTURAL ENGINEER
BRIAN CHEN & ASSOCIATES
17705 CRENSHAW BLVD.
TORRANCE, CA 90504
CONTACT: VICTOR CHAN/PRESIDENT
TEL: (310) 782-1818 FAX: (310) 782-1819
E-MAIL: VICTOR@BRIANCHENGINEERING.COM

LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN:11/30/27
STATE OF CALIFORNIA

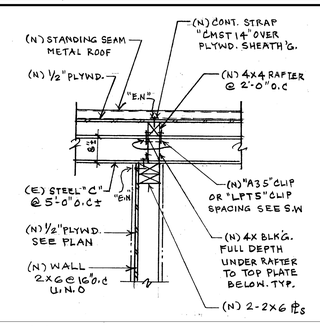
- GENERAL NOTES &
- STRUCTURAL
- DETAILS

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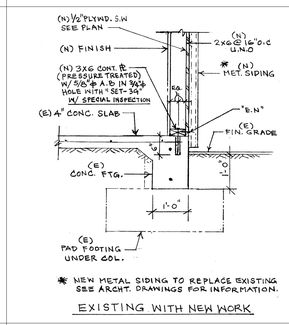
BLD2022-06089
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10 sd 2 | 10

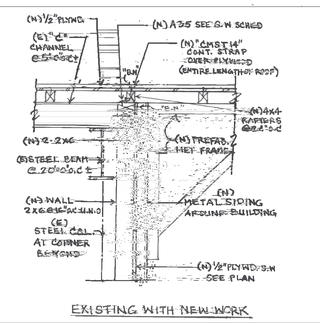


5 sd 2 | 5



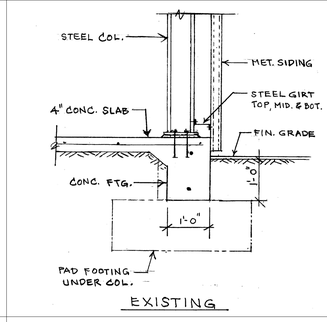
EXISTING WITH NEW WORK

9 sd 2 | 9



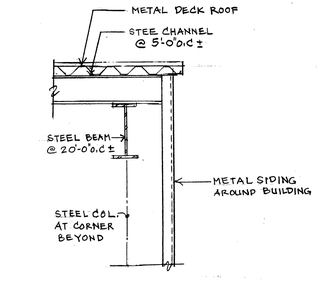
EXISTING WITH NEW WORK

4 sd 2 | 4



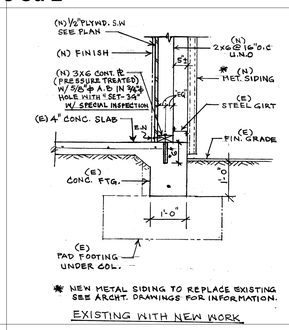
EXISTING

8 sd 2 | 8



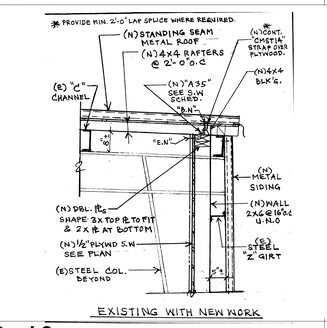
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3 sd 2 | 3



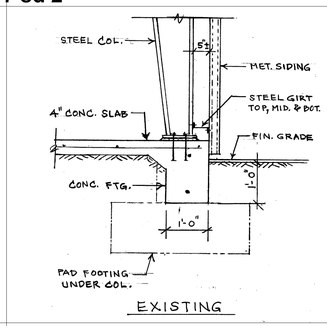
EXISTING WITH NEW WORK

7 sd 2 | 7



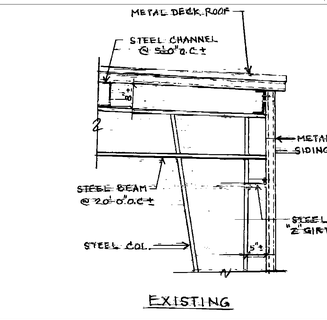
EXISTING WITH NEW WORK

2 sd 2 | 2



EXISTING

6 sd 2 | 6



EXISTING

1 sd 2 | 1

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512 Redondo Ave. Long Beach, CA 90814 Tel. 562-912-7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

No.	DATE	DESCRIPTION	BY

Designer: KN
CAD Draft: KN
Architect: LOK
Engineer:
Client: PALMDALE
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Client:

Consultant:
STRUCTURAL ENGINEER
ENGINEERING DESIGN
17705 CRENSHAW BLVD.
TORRANCE, CA 90504
CONTACT: VICTOR CHAVARRIBERT
E: VICTOR@ENGINEERINGDESIGNS.COM

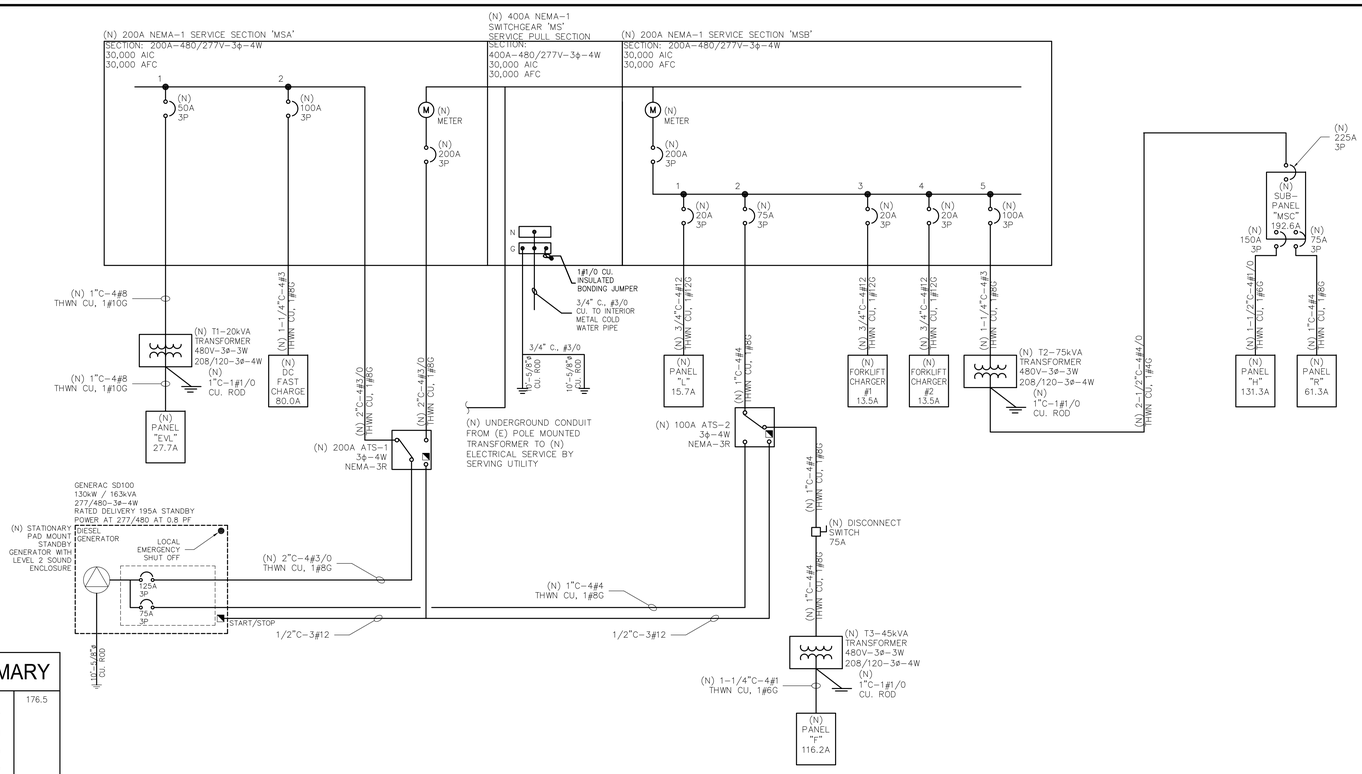
LICENSED ARCHITECT
Edward Lok Ng
C-16840
REN.11/30/27
STATE OF CALIFORNIA

- GENERAL NOTES &
- STRUCTURAL
- DETAILS

SD2.0

BLD2022-06089
BLD2022-06090

LETTER FOR SHORT CIRCUIT CURRENT VALUE FROM SOUTHERN CALIFORNIA EDISON SHALL BE AVAILABLE AT THE JOB SITE FOR INSPECTION



MSA LOAD SUMMARY

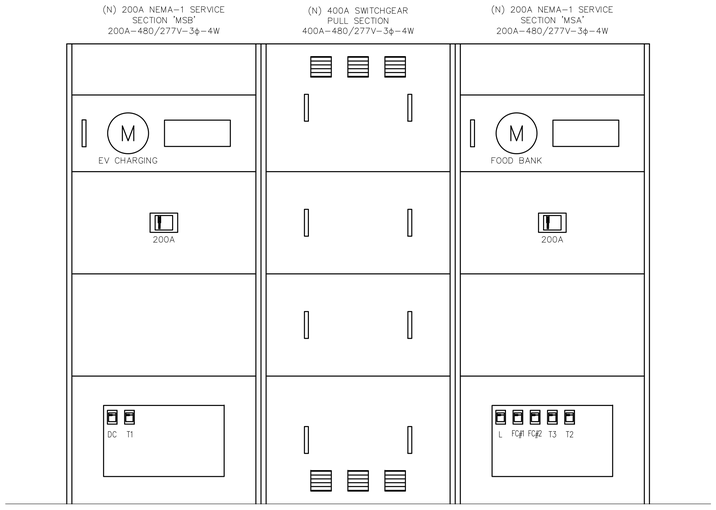
SECTION MSA		107.7
DC FAST CHARGE	80.0	
PANEL EVL	27.7	
SERVICE TOTAL 480/3ø:		107.7

MSB LOAD SUMMARY

SECTION MSB		176.5
PANEL L	15.7	
PANEL F	50.4	
FORKLIFT CHARGER #1	13.5	
FORKLIFT CHARGER #2	13.5	
SUBPANEL MSC	83.4	
SERVICE TOTAL 480/3ø:		176.5

SINGLE LINE DIAGRAM

CONTRACTOR SHALL VERIFY AVAILABILITY OF ALL UTILITIES PRIOR TO INITIATION OF CONSTRUCTION



SWITCHGEAR ELEVATION

LEGEND

SYMBOL	DESCRIPTION
	LIGHT FIXTURE, EXIT, SINGLE FACED, UNIVERSAL MOUNTED WITH DIRECTIONAL ARROWS
	LIGHT FIXTURE, EXIT, DOUBLE FACED, UNIVERSAL MOUNTED WITH DIRECTIONAL ARROWS
	LIGHT FIXTURE, EXIT
	DUPLEX RECEPTACLE, 20A, 120V, +15" AFF TO BOTTOM OF BOX OR AS NOTED; G= INDICATES GFI; I= INDICATES ISOLATED GROUND
	SHOW WINDOW RECEPTACLE WITHIN 18" OF TOP OF SHOW WINDOW
	DEDICATED EQUIPMENT RECEPTACLE, 20A, 120V
J	JUNCTION BOX, 4" x 1-1/2" SQUARE; TYP, UNO
J	JUNCTION BOX, WALL MOUNTED, 4" x 1-1/2" SQUARE; TYP, UNO
PS	PHOTO SENSOR FOR AUTOMATIC DAYLIGHT CONTROL
OS	OCCUPANCY SENSOR
Sx	SWITCH, SINGLE (+48" UNO TO TOP OF BOX) X = DESIGNATED LUMINARIES CONTROLLED BY SWITCH
Sxb	SWITCH, MULTIPLE (+48" UNO TO TOP OF BOX) a = SWITCH ONE; b = SWITCH TWO
Sx	OVERRIDE SWITCH – TIMED, 2 HOUR MAXIMUM OVERRIDE
S3	SWITCH, 3-WAY (+48" UNO TO TOP OF BOX)
S4	SWITCH, 4-WAY (+48" UNO TO TOP OF BOX)
Sm	SWITCH: K=KEY OPERATED M=MANUAL MOTOR P=PILOT SWITCH T=TIMER D=DIMMING L=ILLUMINATED
S	DISCONNECT SWITCH; RATINGS AS NOTED
F	FUSED DISCONNECT SWITCH; RATING AS NOTED
Sm	MANUAL MOTOR STARTER
A–1,3,5	HOME RUN TO PANEL BOARD "A" CIRCUITS 1, 3, 5
	PANEL BOARD
A 96	LIGHTING FIXTURE DESIGNATION; TYPE A, 98 VA
A	DENOTES PANELBOARD / SWITCHBOARD "A"
T/C TC	PROGRAMMABLE TIME CLOCK
LINETYPE	
	CONDUIT CONCEALED IN WALL OR CEILING; SIZE AS NOTED
	CONDUIT BELOW FLOOR OR GRADE OR IN SLAB; SIZE AS NOTED
	CONDUIT EXPOSED; SIZE AS NOTED
T	TELEPHONE SYSTEM CONDUIT; 3/4"C OR AS NOTED
A – 1	BRANCH CIRCUIT
	CONDUIT TURNED
	CONDUIT TURNED UP OR TOWARD OBSERVER
	CONDUIT TURNED DOWN OR AWAY FROM OBSERVER
	CIRCUIT BREAKER
	1/2" TICK MARKS INDICATE QUANTITY OF #12 AWG CONDUCTORS UNO, NO MARKS INDICATES 2 #12; LARGE SLASH DENOTES NEUTRAL; SLASH WITH DOT DENOTES CODE SIZED GROUND
1 #10	MARK COUNT INDICATES QUANTITY, CONDUCTOR; SIZE AS NOTED

ABBREVIATIONS	
(E)	EXISTING
(N)	NEW
C.O.	CONDUIT ONLY FOR FUTURE CONNECTION; 3/4" OR AS NOTED
SPR	SPARE

DRAWING INDEX

E1.0	LEGEND, DRAWING INDEX, SCOPE OF WORK, SINGLE LINE DIAGRAM, SWITCHGEAR ELEVATION
E1.1	PROJECT NOTES
E2.0	SITE PLAN
E2.1	POWER PLAN
E2.2	LIGHTING PLAN
E3.0	PANEL SCHEDULES
E4.0	TITLE 24 – INDOOR
E4.1	TITLE 24 – DISTRIBUTION, OUTDOOR
E5.0	FAULT CURRENT, VOLTAGE DROP CALCULATIONS
E6.0	EMERGENCY LIGHTING PHOTOMETRICS
E6.1	SITE LIGHTING PHOTOMETRICS

SCOPE OF WORK

1. PROVIDE BUILDING ELECTRICAL SERVICE UPGRADE FOR (N) 400A-480/277V-3ϕ-4W SWITCHGEAR; REDEVELOP IN NEW LOCATION
2. COORDINATE REQUIREMENTS FOR BUILDING ELECTRICAL SERVICE, ASSOCIATED UTILITY TRANSFORMER WITH SERVING UTILITY
3. PROVIDE (N) PANELS (H, L, R1, R2, F, M)
4. PROVIDE ELECTRICAL SERVICES (BREAKERS, CONDUIT, FEEDERS) FROM BUILDING ELECTRICAL SERVICE TO PANELS IN SPACE
5. PROVIDE CIRCUITING TO EQUIPMENT, HVAC, PLUMBING, LIGHTING, RECEPTACLES, AND ANCILLARIES
6. PROVIDE TITLE 24 COMPLIANT LIGHTING AND LIGHTING CONTROLS

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BOA Architecture Interiors Planning
1511 Cota Ave. Long Beach, CA 90813 Tel. 562-912-7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

NO.	DESCRIPTION	DATE

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer: –
Client: –
Date Issue: 01.16.2026
Job Number: XX-XXXX

Client:

Consultant:

- LEGEND, DRAWING INDEX, SCOPE OF WORK, SINGLE LINE

E1.0

PROJECT NOTES

1. GENERAL
   - A. ADMINISTRATIVE
     - 1) BASIS OF WORK
       - a. SCOPE OF WORK SHALL BE AS IDENTIFIED HEREIN THESE DRAWINGS ON SHEET E-1, FOR COMPLETE AND OPERABLE FACILITY AND INSTALLATION.
       - b. ALL WORK SHALL COMPLY WITH THE FOLLOWING CODES AS ADOPTED AND AS AMENDED BY THE INSPECTING AUTHORITY:
         - i) CALIFORNIA BUILDING CODE (2022).
         - ii) CALIFORNIA ELECTRICAL CODE (2022).
         - iii) CALIFORNIA MECHANICAL CODE (2022).
         - iv) CALIFORNIA PLUMBING CODE (2022).
         - v) CALIFORNIA ADMINISTRATIVE CODE – TITLE 24 (2022).
         - vi) CALIFORNIA FIRE CODE (2022).
         - vii) AMENDMENTS AS ADOPTED BY LOCAL AUTHORITIES.
       - c. ALL EQUIPMENT AND HARDWARE SHALL BE PROVIDED FOR LISTED INSTALLATIONS AND APPLICABLE INDUSTRY STANDARDS. A COPY OF THE EVALUATION REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.
       - d. ALL TERMS CITED HEREIN LEND TO THE ELECTRICAL CONTRACTOR, WHETHER ACTING AS A PRIME CONTRACTOR OR AS A SUB CONTRACTOR. HEREINAFTER, THE ELECTRICAL CONTRACTOR IS REFERRED TO AS THE CONTRACTOR, AND REQUIREMENTS OF THESE NOTES SHALL DIRECT SAID CONTRACTOR TO ACCOMPLISH TASKS AS CITED HEREIN.
     - 2) CONTRACTURAL OBLIGATIONS
       - a. PURCHASE AND MAINTAIN CERTIFICATIONS OF INSURANCE WITH RESPECT TO WORKMAN'S COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE LIMITS AS REQUIRED BY LAW. INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK.
       - b. APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS REQUIRED BY ALL APPLICABLE BUILDING CODES AND REGULATORY REQUIREMENTS OF CITY AND STATE. FOR CONTRACTOR'S EXPENSE OF SECURING PERMITS (AS AGREED TO), SUBMIT TO OWNER FOR REIMBURSEMENT OF COST OF PERMITS AND ASSOCIATED FEES AS CHARGED BY CITY (AND / OR ASSOCIATED JURISDICTIONS).
       - c. PROVIDE A LIST OF SUBCONTRACTORS TO ARCHITECT PRIOR TO THE START OF WORK.
     - 3) BIDDING
       - a. DURING PRICING PERIOD, CONFIRM IN WRITING THE APPROXIMATE ON-SITE DELIVERY DATES FOR ALL CONSTRUCTION MATERIALS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS AND NOTIFY OWNER'S REPRESENTATIVE IN WRITING OR ANY POSSIBLE CONSTRUCTION DELAYS AFFECTING OCCUPANCY THAT MAY ARISE DUE TO THE UNAVAILABILITY OF SPECIFIED PRODUCTS.
       - b. UPON SUBMITTAL OF THE FINAL CONSTRUCTION COSTS, SUBMIT A SPECIFIC CONSTRUCTION SCHEDULE INDICATING THE REQUIRED CONSTRUCTION TIME FOR ALL SUBCONTRACTORS AND CONTRACTOR'S WORK.
       - c. ORDER ALL MATERIALS IN TIME TO MAINTAIN THE APPROVED CONSTRUCTION SCHEDULE. SUBSTITUTIONS MAY BE CONSIDERED DUE TO THE CONTRACTOR'S DELAY IN ORDERING SPECIFIED LONG LEAD ITEMS. ALL SUBSTITUTION MUST BE APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE PRIOR TO ANY ORDER PLACEMENT OR PURCHASE. ANY SUBSTITUTION INSTALLED WITHOUT APPROVAL WILL BE REJECTED AND REPLACED AT CONTRACTOR'S EXPENSE.
       - d. PROVIDE HARDWARE RATED FOR REQUIRED KAIC PROTECTION. IN EVENT FAULT CURRENT CALCULATIONS ARE NOT PROVIDED ON PLANS, VERIFY KAIC RATING REQUIREMENTS PRIOR TO BIDDING SO AS TO SECURE CORRECT BREAKER RATINGS (ET AL).
       - e. ACCOUNT FOR ADDITIONAL OFFSETS, FITTINGS, HARDWARE, ET AL AS NECESSARY TO ACCOMMODATE REQUIREMENTS FOR FIELD CONDITIONS AND COORDINATION BETWEEN DISCIPLINES.
       - f. INCLUDE ALL NECESSARY LABOR, TRANSPORTATION AND EQUIPMENT NECESSARY TO INSTALL SUCH WORK.
       - g. ACCOUNT FOR ANY AND ALL OVERTIME COSTS.
     - 4) SUBMITTALS
       - a. SHALL SUBMIT SHOP DRAWINGS, AND / OR DESCRIPTIVE DATA AND SAMPLES OF ALL EQUIPMENT, FIXTURES, HARDWARE, FINISHES, MILLWORK, ET AL FOR APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION.
       - b. ADDITIONAL REQUIREMENTS FOR SUBMITTAL INFORMATION IS PROVIDED HEREINAFTER.
     - 5) RECEIVING AND STORAGE
       - a. RECEIVE, STORE AND SECURE ALL EQUIPMENT, FIXTURES, HARDWARE, FINISHES, MILLWORK, ET AL ON SITE OR AS OTHERWISE ARRANGED FOR BY CONTRACTOR.
     - 6) GUARANTEE
       - a. PROVIDE ONE YEAR GUARANTEE TO CONTRACTOR ON PARTS AND LABOR EXCEPT AS OTHERWISE SPECIFIED HEREIN.
2. PRODUCTS
   - A. GENERAL
   - B. EQUIPMENT
     - 1) PROVIDE ALL EQUIPMENT WITH COPPER BUSS BARS AND WINDINGS UNLESS SPECIFICALLY NOTED TO OWNER'S REPRESENTATIVE IN WRITING.
   - C. HARDWARE
     - 1) PROVIDE ALL HARDWARE WITH COPPER BUSS BARS AND WINDINGS UNLESS SPECIFICALLY NOTED TO OWNER'S REPRESENTATIVE IN WRITING.
     - 2) PROVIDE ALL CONDUCTORS SHALL BE COPPER, MINIMUM SIZE #12 AWG. CONDUCTOR #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTOR #8 AWG AND LARGER SHALL BE STRANDED. CONDUCTOR SHALL HAVE THWN INSULATION.
     - 3) ALL CIRCUITING THROUGHOUT SHALL BE INSTALLED IN EMT UNLESS OTHERWISE SPECIFICALLY ALLOWED. CONTRACTOR MAY INSTALL MC CABLE IN PARTITION WALLS AND PLENUM SPACES FOR WRITTEN REQUEST AND RESPONSE IN WRITING FROM OWNER'S REPRESENTATIVE AND AS ALLOWED BY JURISDICTION HAVING AUTHORITY. MC CABLE FOR ISOLATED CIRCUITES SHALL HAVE TWO (2) SEPARATE GROUINDING CONDUCTORS.
     - 4) ALL CONNECTIONS TO DEVICES SHALL BE TAPED WITH SCOTH 33 ELECTRICAL TAPE.
3. EXECUTION
   - A. GENERAL
     - 1) DOCUMENTATION
       - a. ALL ABBREVIATIONS USED ON DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, OWNER'S REPRESENTATIVE SHALL BE NOTIFIED FOR CLARIFICATION.
       - b. DRAWINGS ARE DIAGRAMMATIC IN NATURE, AND DO NOT ACCOUNT FOR EVERY ASPECT OF INSTALLATION AS NECESSARY TO ACCOMMODATE FIELD CONDITIONS. CONTRACTOR SHALL CHECK CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND SCALES FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN FOR A COMPLETE AND OPERABLE AND OPERATIONAL INSTALLATION PRIOR TO PROCEEDING WITH CONSTRUCTION. CONTRACTOR TO REVIEW AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
       - c. ANY CONDITIONS NOT DOCUMENTED ON THESE DRAWINGS OR OBSERVED TO BE DIFFERENT THAN THOSE SHOWN ON THE DRAWINGS ARE TO BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
       - d. DO NOT SCALE DRAWINGS. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION ISSUES, THE CONTRACTOR SHALL CLARIFY WITH OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH WORK IN QUESTION OR RELATED WORK.
       - e. VERIFY ALL DIMENSIONS SHOWN ON DRAWINGS BY FIELD MEASUREMENTS. BEFORE COMMENCING WORK. CHECK ALL LINES AND LEVELS INDICATED. IMMEDIATELY REPORT DISCREPANCIES TO THE OWNER'S REPRESENTATIVE FOR CORRECTION AND ADJUSTMENT. PROVIDE PROPER FIT AND ATTACHMENT OF ALL PARTITIONS AND CONSTRUCTION MATERIALS.
       - f. ALL DIMENSIONS NOTED "MINIMUM", "CLEAR", OR "VERIFY" ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY VARIANCES ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE TERMS NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLAN. NOTED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED ONES.
       - g. ADVISE OWNER'S REPRESENTATIVE OF ALL CONFLICTS THAT EXIST AT THE LOCATIONS OF ALL OF THE MECHANICAL, TELEPHONE, ELECTRICAL, LIGHTING, PLUMBING AND SPRINKLER EQUIPMENT (TO INCLUDE ALL PIPING, DUCTWORK AND CONDUITS) AND SHALL PROVIDE OWNER'S REPRESENTATIVE WITH ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF THE ABOVE EQUIPMENT.
       - h. KEEP A PROJECT RECORD SET CONSISTING OF DRAWINGS MARKING ALL CHANGES TO THE ORIGINAL DRAWINGS THROUGHOUT THE COURSE OF THE PROJECT. DELIVER "MARKED-UP" REPRODUCIBLE COPY TO OWNER'S REPRESENTATIVE AT THE COMPLETION OF THE PROJECT.
     - 2) STANDARD OF CARE
       - a. REVIEW AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY CONDITIONS NOT DOCUMENTED ON THESE DRAWINGS OR OBSERVED TO BE DIFFERENT THAN THOSE SHOWN ON THE DRAWINGS ARE TO BE REPORTED TO THE ARCHITECT PRIOR TO COMMENCING WORK.
       - b. IF ANY MATERIALS OR PRODUCTS ARE INSTALLED WITHOUT FIRST PROVIDING THE REQUIRED SUBMITTALS OR SHOP DRAWINGS FOR APPROVAL, THOSE MATERIALS OR PRODUCTS ARE SUBJECT TO BEING REMOVED AND CORRECTLY REINSTALLED AT FULL COST TO THE CONTRACTOR.
       - c. WORK SHALL BE COMMENSURATE TO FINISHED CONDITIONS WITHIN SPACE AND / OR STRUCTURE, AND / OR TO STANDARDS ESTABLISHED IN COMMENSRUATE TERMS.
       - d. NO WORK, DEFECTIVE IN CONSTRUCTION OR QUALITY OR DEFICIENT IN ANY REQUIREMENTS OF THE DRAWINGS OR NOTES, WILL BE FOUND ACCEPTABLE IN CONSEQUENCE OF THE OWNER'S OR ARCHITECT'S FAILURE TO DISCOVER OR POINT OUT DEFECT AND DEFICIENCIES DURING CONSTRUCTION. DEFECTIVE WORK REVEALED WITHIN THE TIME REQUIRED BY GUARANTEES SHALL BE REPLACED BY WORK CONFORMING WITH THE INTENT OF THE CONTRACT. NO PAYMENT, EITHER PARTIAL OR FINAL, SHALL BE CONSTRUED AS AN ACCEPTANCE OF DEFECTIVE WORK OR IMPROPER MATERIALS.
       - e. WORK WHICH CREATES NOXIOUS ODORS SHALL BE PERFORMED AT A TIME OF AGREEABLE WITH, AND COORDINATED THROUGH THE OWNER'S REPRESENTATIVE AND PER JURISDICTIONAL/GOVERNMENTAL REQUIREMENTS.
       - f. PROVIDE AN EMERGENCY POWER SOURCE FOR EXIT AND EXIT WAY ILLUMINATION.
       - g. KEEP ALL BUILDING AREAS CLEAN AND FREE OF ACCUMULATED DIRT AND DEBRIS. AT THE COMPLETION OF CONSTRUCTION, REMOVE ANY SURPLUS MATERIALS, DEBRIS AND EQUIPMENT.
     - 3) COORDINATION OF CONSTRUCTION EFFORT
       - a. ORDER ALL MATERIALS IN TIME TO MAINTAIN THE APPROVED CONSTRUCTION SCHEDULE.
       - b. COORDINATE SCHEDULE WITH ALL CONTRACTORS, OWNER'S VENDORS, AND PARTIES INSTALLING ITEMS "NOT IN CONTRACT AND ITEMS "PROVIDED BY OTHERS".
       - c. THE CONTRACTOR SHALL COORDINATE SCHEDULE FOR ALL SUBCONTRACTORS, OWNER'S VENDORS, AND PARTIES INSTALLING ITEMS "NOT IN CONTRACT" AND "ITEMS "PROVIDED BY OTHERS".
       - d. THE CONTRACTOR SHALL ORDER MATERIALS IN TIME TO MAINTAIN THE APPROVED CONSTRUCTION SCHEDULE.
       - e. COORDINATE INSTALLATION OF ALL WORK FOR THE LAYOUT AND EXACT LOCATION OF ALL CEILINGS AND WALLS AND PARTITIONS, OPENINGS FOR DOORS AND WINDOWS, LIGHT FIXTURES. ELECTRICAL / TELEPHONE OUTLETS AND LIGHT SWITCHES, HVAC EQUIPMENT AND HARDWARE, PLUMBING EQUIPMENT AND FIXTURES AND HARDWARE AND SERVICES WITH ALL CONTRACTORS.
       - f. COORDINATE INSTALLATION OF ALL WORK BY THE OWNER'S VENDORS (I.E. SITE / CIVIL / UTILITIES, SIGNAGE, FIRE / LIFE SAFETY, DATA CABLING, SECURITY SYSTEM, AUDIO VISUAL, ET AL) WITH OTHER TRADES.
       - g. COORDINATE INSTALLATION OF ALL WORK BY SUBCONTRACTORS FOR THE LAYOUT AND EXACT LOCATION OF ALL CEILINGS AND WALLS AND PARTITIONS, OPENINGS FOR DOORS AND WINDOWS, LIGHT FIXTURES. ELECTRICAL / TELEPHONE OUTLETS AND LIGHT SWITCHES, HVAC EQUIPMENT AND HARDWARE, PLUMBING EQUIPMENT AND FIXTURES AND HARDWARE AND SERVICES WITH OWNER'S REPRESENTATIVE IN THE FIELD.
       - h. COORDINATE INSTALLATION OF ALL WORK BY THE OWNER'S VENDORS (I.E. SITE / CIVIL / UTILITIES, SIGNAGE, FIRE / LIFE SAFETY, DATA CABLING, SECURITY SYSTEM, AUDIO VISUAL, ET AL) WITH OTHER TRADES.
       - i. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ITEMS "NOT IN CONTRACT" AND ITEMS "PROVIDED BY OTHERS" WITH OTHER TRADES.
     - 4) PLACEMENT OF EQUIPMENT AND HARDWARE
       - a. ALL DIMENSIONS NOTES "CLR" ARE CLEAR AND ARE NOT ADJUSTABLE WITHOUT APPROVAL FROM ARCHITECT.
       - b. ALIGN PARTITIONS ADJACENT TO BASE BUILDING COLUMNS OR WALL WITH THE FACE OF FINISHED COLUMN SURFACE, UNLESS NOTED OTHERWISE.
       - c. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT REVIEW BY ARCHITECT UNLESS NOTED OTHERWISE.
       - d. ARRANGE AND PLACE ALL FRAMING MEMBERS TO PERMIT INSTALLATION OF PIPE, CONDUITS, AND DUCTWORK WITH MINIMAL CUTTING. ALL NECESSARY CUTTING, BLOCKING, BRACING, SUPPORTING AND REPAIRING SHALL BE APPROVED BY ARCHITECT.
       - e. ARRANGE AND PLACE CEILING MOUNTED FIXTURES AND HARDWARE PER THE REFLECTED CEILING PLAN PROVIDED AS PART OF THE ARCHITECTURAL PLANS.
       - f. ACCESS TO AND CLEARANCE AROUND ALL EQUIPMENT AND HARDWARE AS REQUIRED BY CODE AND BY EQUIPMENT MANCUFACTURER.
       - g. PROVIDE ACCESS PANELS IN LOCATIONS AS REQUIRED FOR HARDWARE REQUIRING ACCESS.
       - h. COORDINATE INSTALLATION WITH OTHER TRADES AS TO EQUIPMENT AND HARDWARE ASSOCIATED WITH RESPECTIVE TRADES FOR NECESSARLY CONDUIT AND WIRING AND SENSORS AND CONTROLS.
     - 5) INTEGRITY OF CONSTRUCTION
       - a. X-RAY SLABS AND WALLS IN LOCATIONS OF PENETRATIONS PRIOR TO SAWCUTTING OR CORING.
       - b. MAINTAIN AND / OR MODIFY AND / OR PROVIDE NEW STRUCTURAL CONSTRUCTION. ANCHOR AND BRACE EQUIPMENT, HARDWARE, ASSEMBLIES, ELEMENTS OF CONSTRUCTION, ET AL AS REQUIRED BY CODE.
       - c. PROVIDE INSTALLATIONS PLUMB AND CRAFTSMAN LIKE, TO PROVIDE FOR MAXIMUM CLEARANCES AND MINIMUM IMPOSITION, AND COMMENSURATE WITH EXISTING CONDITIONS AND / OR GRADE OF CONSTRUCTION OF OVERALL JOB.
       - d. DO BORE OR NOTCH STRUCTURAL ELEMENTS WITHOUT WRITTEN AUTHORIZATION FROM ARCHITECT.
       - e. PROVIDE EQUIPMENT, HARDWARE, AND TREATMENTS WHERE NEW INSTALLATIONS PENETRATE NEW OR EXISTING RATED ELEMENTS OF CONSTRUCTION.
       - f. MAINTAIN AND / OR MODIFY AND / OR PROVIDE NEW FIRE SUPPRESSION AND FIRE ALARM SYSTEMS AS REQUIRED BY CODE.
   - B. EQUIPMENT
     - 1) INSTALL EQUIPMENT AND ASSOCIATED COMPONENTS AND ELECTRICAL SYSTEMS IN ACCORDANCE WITH REQUIREMENTS OF EQUIPMENT MANUFACTURER.
   - C. HARDWARE
     - 1) PROVIDE ALL NECESSARY SUPPORTS, FASTENERS, BLOCKING AND BACKING AS REQUIRED TO INSTALL ELECTRICAL SYSTEM. ELECTRICAL SYSTEMS SHALL BE GROUNDED.
     - 2) PROVIDE HARDWARE RATED FOR REQUIRED KAIC PROTECTION. IN EVENT FAULT CURRENT CALCULATIONS ARE NOT PROVIDED ON PLANS, CONTRACTOR SHALL VERIFY KAIC RATING REQUIREMENTS PRIOR TO PROCUREMENT AND INSTALLATION SO AS TO SECURE CORRECT BREAKER RATINGS (ET AL).
     - 3) INSTALL ALL SWITCHES AND THERMOSTATS SHOWN AT +48" ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED ON PLAN. ALL HEIGHTS ARE GIVEN FROM TOP TO FINISH FLOOR TO CENTERLINE OF COVER PLATE, MOUNTED VERTICALLY LENGTHWISE, WHEN MORE THAN ONE SWITCH IS REQUIRED AT THE SAME LOCATION, GANG AND FINISHED WITH A ONE PIECE COVER PLATE. PROVIDE BARRIERS AS REQUIRED FOR DIFFERENT VOLTAGE AND PHASE AS REQUIRED.
     - 4) INSTALL WALL MOUNTED TELEPHONE AND ELECTRICAL OUTLETS +18" ABOVE FLOOR UNLESS OTHERWISE NOTED. UNLESS NOTED OTHERWISE, ALL OUTLET HEIGHTS ARE GIVEN FROM FINISH FLOOR TO CENTERLINE OF LOWER PLUG.
     - 5) OFFSET ALL OUTLETS SHOWN BACK-TO-BACK IN PARTITIONS THE MINIMUM DIMENSION REQUIRED (WITHOUT TOUCHING) TO AVOID BACK TO BACK INSTALLATIONS. DO NOT LOCATED OUTLETS BACK TO BACK IN FIRE RATED WALLS.
     - 6) ALL CONDUITS AND JUNCTION BOXES CONCEALED IN FINISHED AREAS SHALL BE REVIEWED BY OWNER'S REPRESENTATIVES PRIOR TO CONCEALMENT AND FINISH TREATMENTS.
     - 7) PROVIDE RECEPTACLES IN CONCEALED SPACES AND ON ROOFTOP AS REQURIED IN VICINITY OF HVAC EQUIPMENT IN ATTIC SPACES. PROVIDE GFCI CONFIGURATIONS AS NECESSARY.
     - 8) PROVIDE SHOW WINDOW LIGHTING RECEPTACLES AT STOREFRONT / WINDOWS ADJACENT TO PUBLIC WAY.
     - 9) ALL COVER PLATES AND SWITCH PLATES SHALL BE THE SAME FINISH THROUGHOUT THE BUILDING, UNLESS NOTED OTHERWISE AS SELECTED BY THE ARCHITECT.
     - 10) VERIFY DOOR SWINGS PRIOR TO INSTALLATION OF LIGHT SWITCHES.
     - 11) INSTALL ALL EXPOSED CONDUIT WITH A VISIBLE FINISHED PRODUCT COMMENSURATE WITH FACILITY AND GRADE OF INSTALLATION. EXPOSED CONDUIT LAYOUTS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.
     - 12) PROVIDE PULL STRINGS FROM OUTLETS TO CEILING SPACE. PROVIDE MULTIPLE PULL STRINGS ACCORDINGLY.
     - 13) MAINTAIN CONTINUITY OF EXISTING CIRCUITING FOR EQUIPMENT AND HARDWARE MAINTAINED AS PART OF THIS PROJECT. THE CONTRACTOR SHALL TRACE ALL EXISTING CIRCUITS IN THE AREA OF CONSTRUCTION BACK TO SOURCE.
   - C. PANELS
     - 1) LOCATE NO ELECTRICAL PANELS WITHIN FIRE RATED CORRIDORS.
   - D. LIGHTING
     - 1) FURNISH AND INSTALL ALL NEW FIXTURES AND FIXTURE LAMPS.
     - 2) LIGHT FIXTURES, LENSES, ETC., SHALL BE NEW AND ABSOLUTELY FREE OF DEFECTS. ANY AND ALL DAMAGE, DENTED, OR DEFECTIVE EQUIPMENT WILL BE REJECTED.
     - 3) LIGHTING FIXTURES SHALL BE INDIVIDUALLY SUPPORTED FROM STRUCTURAL FRAMING MEMBERS ABOVE.
     - 4) PROVIDE LIGHTING AND ASSOCIATED SWITCHING IN CONCEALED SPACES AS REQURIED IN VICINITY OF HVAC EQUIPMENT IN ATIC SPACES.
     - 5) EMERGENCY LIGHTING SHALL BE PROVIDED GIVING A MINIMUM VALUE OF ONE FOOT CANDLE AT FLOOR LEVEL.
   - E. CONTROLS
     - 1) ELECTRICAL PANELS SHALL NOT BE LOCATED WITHIN FIRE RATED CORRIDORS.
   - F. SPECIALTIES
     - 1) CONNECT EXIT SIGNS TO AN EMERGENCY ELECTRIFIED POWER SYSTEM (STORAGE BATTERIES, UNIT EQUIPMENT, OR AN ON-SITE GENERATOR SET) OR AN APPROVED SELF-LUMINOUS SYSTEM THAT PROVIDES CONTINUOUS ILLUMINATION INDEPENDENT OF THE EXTERNAL POWER SOURCE TO ENSURE THAT THE EXIT SIGNS ARE ILLUMINATED AT ALL TIMES
   - G. ACCEPTANCE
     - 1) IDENTIFY AND LABEL CIRCUITING FOR ALL EQUIPMENT AND HARDWARE WITH ENGRAVED ACRYLIC WHITE ON BLACK ADHESIVE LABELS
     - 2) REPAIR OR REPLACE ANY DAMAGED CONSTRUCTION ADJACENT TO WORK PROVIDED UNDER THIS SCOPE OF WORK.
     - 3) EQUIPMENT AND HARDWARE SHALL BE IDENTIFIED VIA ENGRAVED ACRYLIC WHITE ON BLACK ADHESIVE LABELS, MANUFACTURED PIPE LABELS, CIRCUIT TAGS AND COMPLETED PANEL SCHEDULE LINE CARDS, ET AL.
     - 4) AT THE COMPLETION OF THE INSTALLATION TEST EQUIPMENT AND HARDWARE FOR AND DEMONSTRATE TO OWNER'S REPRESENTATIVE'S PROPER OPERATION, AND MAKE ADJUSTMENTS AS REQUIRED. DELIVER VALIDATED CERTIFICATES, WARRANTIES AND GUARANTEES FOR NEW EQUIPMENT TO OWNER'S REPRESENTATIVE.
     - 5) MAINTAIN ONE SET OF REPRODUCIBLE DRAWINGS OF "AS-BUILT" CONDITIONS AND AT THE COMPLETION OF THE PROJECT SHALL SUBMIT SAME TO THE ARCHITECT.
     - 6) TERMS CITED HEREIN ARE REFLECTIVE OF OR IN ADDITION TO REQUIREMENTS FOR COMPLIANCE OF INSTALLATION TO APPLICABLE CODES. SUBMIT TO OWNER'S REPRESENTATIVE FOR APPROVAL OF DEVIATION FROM SAID TERMS.

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Planning
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NO	DATE	DESCRIPTION
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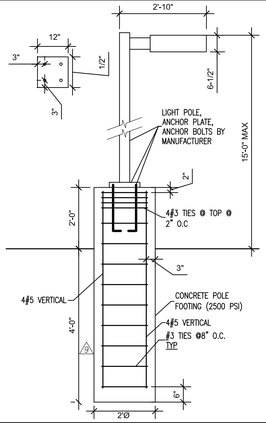
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CAD Draft: Author
Architect: Checker
Engineer: –
Client: –
Date Issue: 01.16.2026
Job Number: XX-XXXX

Client:

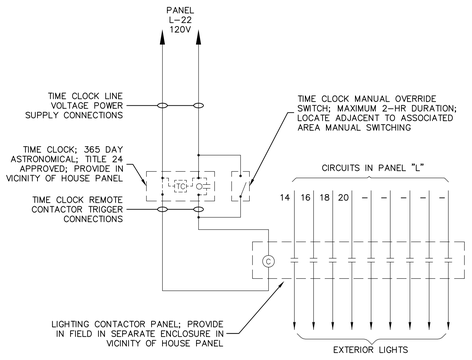
Consultant:

- PROJECT NOTES
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LIGHT POLE DETAIL



EXTERIOR LIGHTING TIMECLOCK

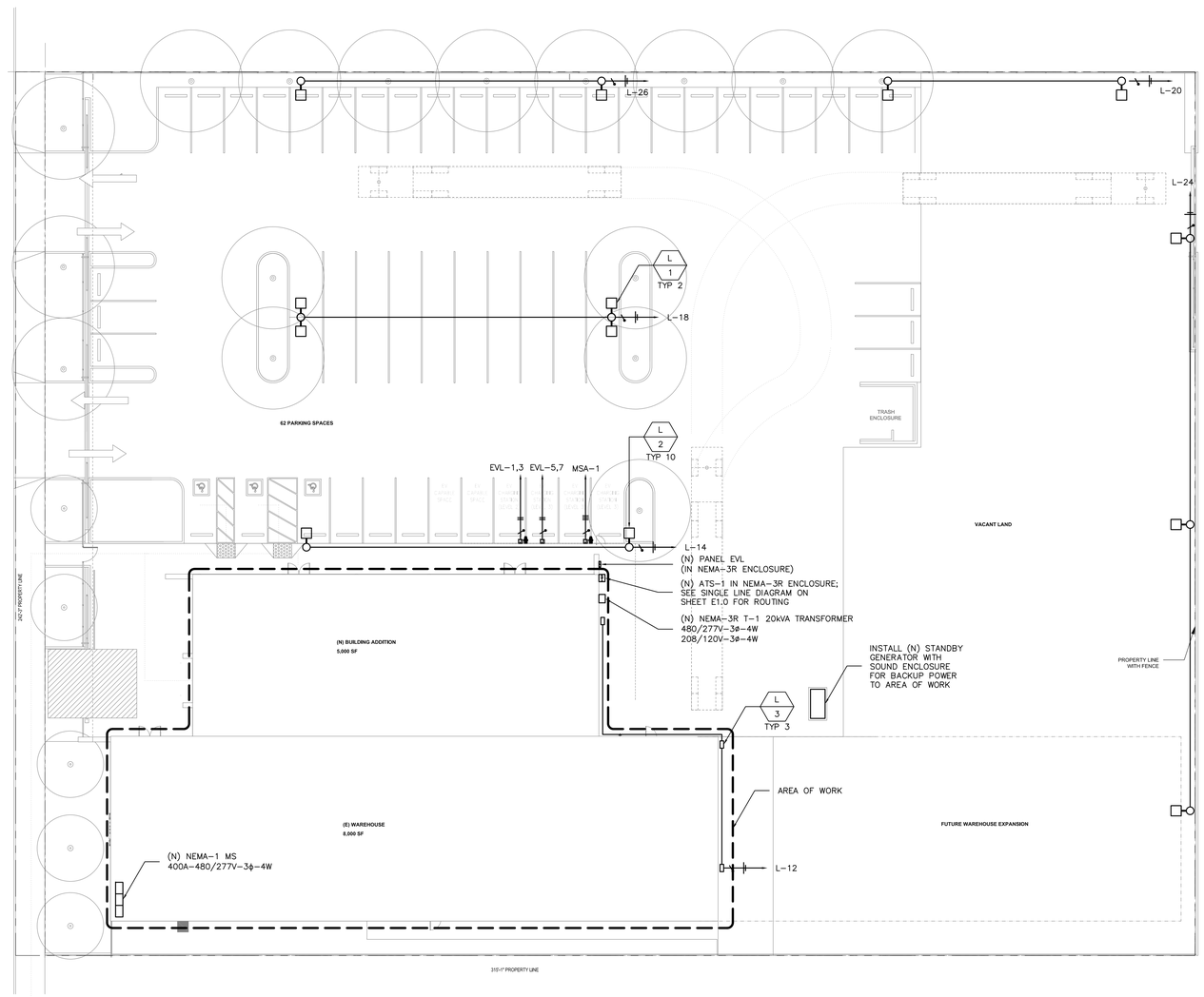
EXTERIOR LIGHTING FIXTURE SCHEDULE

	TYPE	DESCRIPTION	TOTAL V-A	LAMP NO.	LAMP V-A	LAMP TYPE	V/PH	BALLAST	REMARKS
⊡◇⊡	L 1 / 1	RAYON 11" SKYLINE LED W/ 2 LIGHT SQUARES T320LEDB-70-UN12-40K-T4	140	2	70	LED	120/1	–	PROVIDE FULL CUT-OFF HARDWARE
◇⊡	L 1 / 2	LIGHT POLE WITH 1-LED LIGHT SQUARE T320LEDB-70-UN12-40K-T4	70	1	70	LED	120/1	–	PROVIDE FULL CUT-OFF HARDWARE
▭	L 1 / 3	RAYON SLIM LED WALL SCONCE T228LED-UL-40W-XX-40-T4	40	1	40	LED	120/1	–	PROVIDE FULL CUT-OFF HARDWARE

NOTES:
1. ALL FIXTURE BALLASTS SHALL BE U.L. APPROVED AND CERTIFIED PER CEC 2-5314 (b).
2. ALL LAMPS PROVIDED WITH DIMMING BALLASTS SHALL HAVE DIMMING SWITCHES PROVIDED FOR CONTROL
3. ALL MOUNTING HEIGHTS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS.
4. ALL LIGHTING CONTROL EQUIPMENT SHALL BE APPROVED BY THE CALIFORNIA ENERGY COMMISSION AND BE LISTED IN THE APPLIANCE EFFICIENCY DATABASE (TO INCLUDE TIMECLOCKS, PHOTOSENSORS ETC.)

EXTERIOR LIGHTING FIXTURE SCHEDULE

PROVIDE POWER FOR IRRIGATION; PROVIDE SITE LIGHTING VIA 13 LIGHT STANDARDS AND 3 WALL PACKS, CIRCUITING, CONTROLS; PROVIDE POWER TO MOTORIZED GATE, CIRCUITING, CONTROLS



NORTH

SITE PLAN

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

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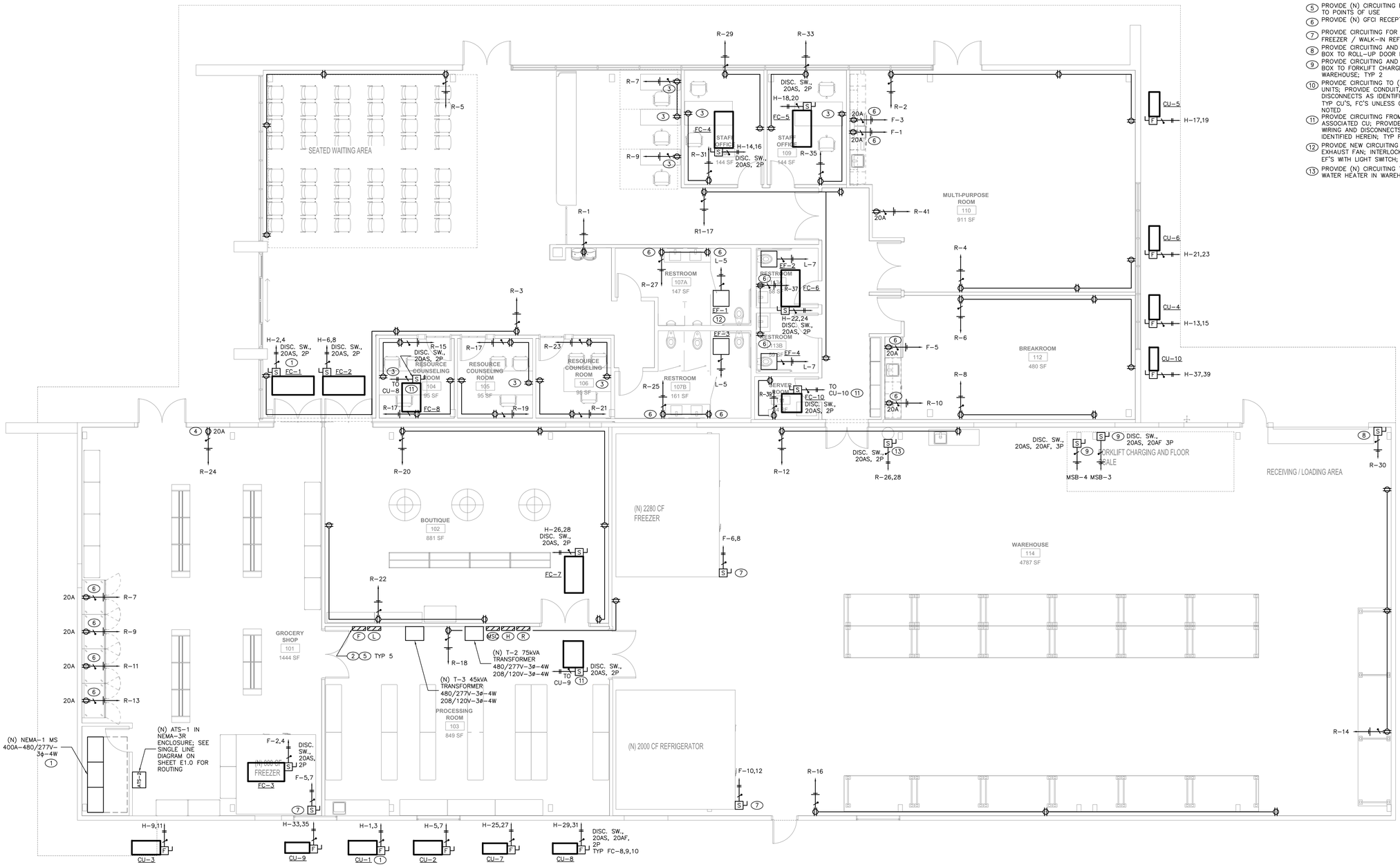
- SITE PLAN

E2.0

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NOTES:

1. PROVIDE (N) 400A–480/277V–3ϕ–4W MS ELECTRICAL SERVICE
2. PROVIDE (N) BREAKERS TO FEED PANELS DOWNSTREAM; PROVIDE CONDUIT, WIRING, CIRCUITING FROM ELECTRICAL SERVICE TO PANELS IN SPACE
3. PROVIDE (N) RECEPTACLE FOR OFFICE WORKSTATION, TO INCLUDE ETHERNET DROP; WI–FI CABLING, ROUTER WIRING, ETHERNET AND POE WIRING, TERMINATION AND TESTING TO BE DONE BY GENERAL CONTRACTOR
4. PROVIDE (N) RECEPTACLES FOR GENERAL RECEPTACLE–BASED EQUIPMENT; TYP UNLESS OTHERWISE NOTED
5. PROVIDE (N) CIRCUITING FROM PANELS TO POINTS OF USE
6. PROVIDE (N) GFCI RECEPTACLES
7. PROVIDE CIRCUITING FOR WALK–IN FREEZER / WALK–IN REFRIGERATOR
8. PROVIDE CIRCUITING AND JUNCTION BOX TO ROLL–UP DOOR IN WAREHOUSE
9. PROVIDE CIRCUITING AND JUNCTION BOX TO FORKLIFT CHARGER IN WAREHOUSE; TYP 2
10. PROVIDE CIRCUITING TO (N) HVAC UNITS; PROVIDE CONDUIT, WIRING AND DISCONNECTS AS IDENTIFIED HEREIN; TYP CU'S, FC'S UNLESS OTHERWISE NOTED
11. PROVIDE CIRCUITING FROM FC UNIT TO ASSOCIATED CU; PROVIDE CONDUIT, WIRING AND DISCONNECTS AS IDENTIFIED HEREIN; TYP FC–8, 9, 10
12. PROVIDE NEW CIRCUITING FOR CABINET EXHAUST FAN; INTERLOCK RESTROOM EF'S WITH LIGHT SWITCH; TYP EF'S
13. PROVIDE (N) CIRCUITING TO TANK–TYPE WATER HEATER IN WAREHOUSE



NORTH

POWER PLAN

SCALE: 3/16"=1'–0"

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POWER PLAN

E2.1

LIGHTING FIXTURES SCHEDULE

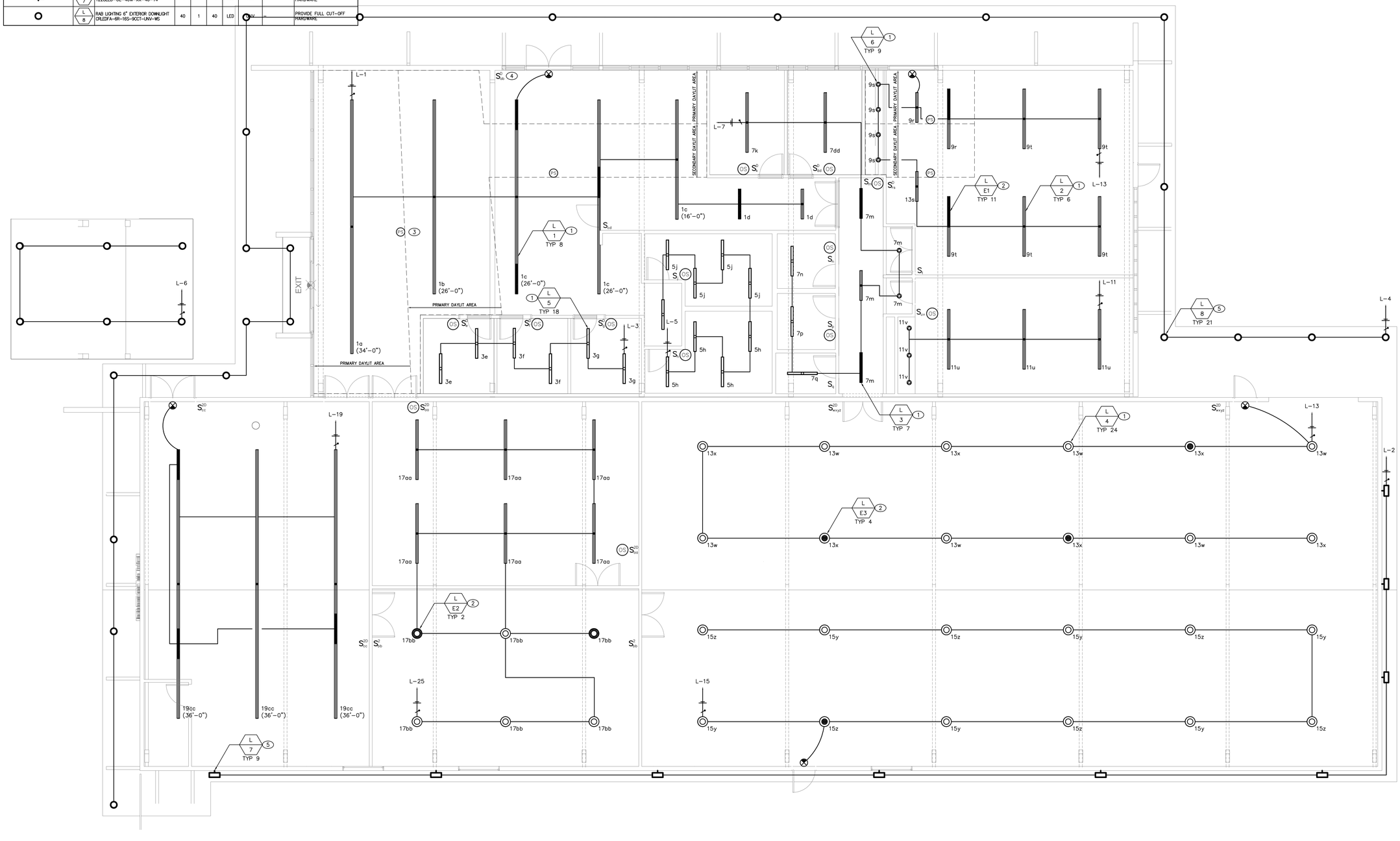
SYMBOL	TYPE	DESCRIPTION	TOTAL V-A	LAMP NO.	LAMP V-A	LAMP TYPE	V/PH	BALLAST	REMARKS
	L 1	DELRAY DOS LINEAR PENDANT LIGHT UDL-XX-W35-D	10 VA / LF	1	10 VA / LF	LED	UNV	DIMMING	PENDANT MOUNT, PROVIDE 1-10V DIMMING BALLAST; PROVIDE LENGTHS AS IDENTIFIED HEREIN
	L 2	DELRAY DOS 8' LINEAR PENDANT LED UDL-8-W35-D	80	1	80	LED	UNV	DIMMING	PENDANT MOUNT, PROVIDE 1-10V DIMMING BALLAST
	L 3	DELRAY DOS 4' LINEAR PENDANT LED UDL-4-W35-D	40	1	40	LED	UNV	DIMMING	PENDANT MOUNT, PROVIDE 1-10V DIMMING BALLAST
	L 4	ALCON 16" HIGH BAY PENDANT LED 15209-16-8L-35K-AC6-010	85.2	1	85.2	LED	UNV	DIMMING	PENDANT MOUNT, PROVIDE 1-10V DIMMING BALLAST
	L 5	DELRAY UNO 4' SURFACE MOUNTED LED ULP-4-W35-D	20	1	20	LED	UNV	DIMMING	SURFACE MOUNTED, PROVIDE 1-10V DIMMING BALLAST
	L 6	6" RECESSED DOWNLIGHT LED	12	1	12	LED	UNV	STANDARD	RECESSED DOWNLIGHT
	L 7	RAYON SLIM LED WALL SCONCE T228LED-UL-40W-XX-40-T4	40	1	40	LED	UNV	–	PROVIDE FULL CUT-OFF HARDWARE
	L 8	RAB LIGHTING 6" EXTERIOR DOWNLIGHT CRLEDFA-6R-16S-9CCT-UNV-WS	40	1	40	LED	UNV	–	PROVIDE FULL CUT-OFF HARDWARE

EMERGENCY LIGHTING FIXTURES SCHEDULE

SYMBOL	TYPE	DESCRIPTION	TOTAL V-A	LAMP NO.	LAMP V-A	LAMP TYPE	V/PH	BALLAST	REMARKS
	L E1	NULITE 4' PENDANT MOUNTED LED	–	1	–	LED	UNV	DIMMING	PENDANT MOUNT, PROVDE 90 MIN. EM BATTERY BACKUP; CIRCUIT TO EMERGENCY PANEL
	L E2	ALCON 16" HIGH BAY PENDANT LED 15209-16-8L-35K-AC6-010	–	1	–	LED	UNV	DIMMING	PENDANT MOUNT, PROVDE 90 MIN. EM BATTERY BACKUP; CIRCUIT TO EMERGENCY PANEL
	L E3	DELRAY UNO 4' SURFACE MOUNTED LED ULP-4-W35-D	–	1	–	LED	UNV	DIMMING	PENDANT MOUNT, PROVDE 90 MIN. EM BATTERY BACKUP; CIRCUIT TO EMERGENCY PANEL

NOTES:

1. NEW LED LIGHT FIXTURES; INSTALL NEW CONDUIT, WIRE, AND CIRCUIT
2. NEW LED LIGHT FIXTURES WITH 90 MIN. EMERGENCY BACKUP; INSTALL NEW CONDUIT, WIRE, AND CIRCUIT; PROVIDE DEDICATED CIRCUITING FOR EMERGENCY LIGHTING POWER
3. PROVIDE (N) AUTOMATIC DAYLIGHTING CONTROLS, TO INCLUDE SWITCHING; CONNECT TO BALLAST DIMMING CONTROL INPUT; TYP ALL LIGHTS IN PRIMARY DAYLIT AREA FOR AUTOMATIC DIMMING; TYP 3
4. NEW SWITCH WITH DIMMER AND OCCUPANCY SENSOR AS IDENTIFIED HEREIN
5. PROVIDE (N) EXTERIOR LIGHT FIXTURES AND ASSOCIATED CIRCUITING



LIGHTING PLAN

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

BOA Architecture Interiors Planning
1511 Cota Ave. Long Beach, CA 90813 Tel. 562-912-7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer: –
Client: –
Date Issue: 01.16.2026
Job Number: XX-XXXX

Client:

Consultant:

- LIGHTING PLAN

E2.2

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PANEL "EVL" | VOLTAGE/PHASE: 208/120, 3ø, 4W | FEED FROM: "MSA"
LOCATION: 103 – PROC. RM | BUS AMPS: 200A | 10 KAIC
MOUNTING: SURFACE | MAIN BREAKER: MLO

LOADS	SEE NOTE	OUTLETS MISC	REC	LTG	VOLT AMPS A	B	C	CKT	BKR/POLE	ABC	BKR/POLE	CKT	VOLT AMPS A	B	C	OUTLETS MISC	REC	LTG	SEE NOTE	LOADS
EV. CHARGER LV2					4992			1	60	*--		2	–							–
–						4992		3	2	--*		4		–						–
EV. CHARGER LV2							4992	5	60	--*		6			–					–
–					4992			7	2	*--		8	–							–
–						–		9		--*		10		–						–
–							–	11		--*		12			–					–
–						–		13		*--		14	–							–
–							–	15		--*		16		–						–
–							–	17		--*		18			–					–
					9984	4992	0	SUB-TOTAL					0	0	0					

PANEL TOTAL:		LCL		LM		VA		AMPS
14976	+	–	+	–	=	14976	@208V 3ø =	41.6

PANEL "L" | VOLTAGE/PHASE: 480/277, 3ø, 4W | FEED FROM: "MSA"
LOCATION: UTILITY ROOM | BUS AMPS: 200A | TBD KAIC
MOUNTING: SURFACE | MAIN BREAKER: MLO

LOADS	SEE NOTE	OUTLETS MISC	REC	LTG	VOLT AMPS A	B	C	CKT	BKR/POLE	ABC	BKR/POLE	CKT	VOLT AMPS A	B	C	OUTLETS MISC	REC	LTG	SEE NOTE	LOADS
WAITING AREA LTS	LCL				1265			1	20/1	*--	20/1	2	360						LCL	SW EXTERIOR LTS
OFFICE LTS	LCL					120		3	20/1	--*	20/1	4		336					LCL	NE EXTERIOR LTS
RESTROOM LTS	LCL						316	5	20/1	*--	20/1	6			96				LCL	SHADE LTS
OFF./ILLWKR/IT LTS	LCL				500			7	20/1	*--	20/1	8	120						LCL	E. EXTERIOR LTS
MULTIPURPOSE RM LTS	LCL					613		9	20/1	--*	20/1	10		140					LCL	EXT LTG POLES
BREAKROOM LTS	LCL						276	11	20/1	*--	20/1	12			280				LCL	EXT LTG POLES
WAREHOUSE LTS	LCL				1605			13	20/1	*--	20/1	14	140						LCL	EXT LTG POLES
WAREHOUSE LTS	LCL					1605		15	20/1	--*	20/1	16		210					LCL	EXT LTG POLES
BOUTIQUE, PROC. LTS	LCL						1080	17	20/1	--*	20/1	18			140				LCL	EXT LTG POLES
GROCERY SHOP LTS	LCL				1085			19	20/1	*--	20/1	20	180							EXT LTS TIMECLOCK
–						–		21		--*		22		–						–
–							–	23		--*		24			–					–
–					–			25		*--		26	–							–
–						–		27		--*		28		–						–
–							–	29		--*		30			–					–
					4455	2338	1672	SUB-TOTAL					800	686	516					

PANEL TOTAL:		LCL		LM		VA		AMPS
10467	+	2572	+	–	=	13039	@480V 3ø =	15.7

PANEL "J" | VOLTAGE/PHASE: 208/120, 3ø, 4W | FEED FROM: "MSA"
LOCATION: 103 – PROC. RM | BUS AMPS: 200A | 10 KAIC
MOUNTING: SURFACE | MAIN BREAKER: MLO

LOADS	SEE NOTE	OUTLETS MISC	REC	LTG	VOLT AMPS A	B	C	CKT	BKR/POLE	ABC	BKR/POLE	CKT	VOLT AMPS A	B	C	OUTLETS MISC	REC	LTG	SEE NOTE	LOADS
MPR FRIDGE					1000			1	20/1	*--	50	2	4358						LCL	WALK-IN FREEZER
MPR FRIDGE						1000		3	20/1	--*	2	4		4358						–
BRKRM FRIDGE							1000	5	20/1	--*	50	6			4358				LCL	WALK-IN FREEZER
FRIDGE RCPT					1000			7	20/1	*--	2	8	4358							–
FRIDGE RCPT						1000		9	20/1	--*	50	10		4358					LM,CL	WALK-IN REFRIGERATOR
FRIDGE RCPT							1000	11	20/1	--*	2	12			4358					–
FRIDGE RCPT					1000			13	20/1	*--		14	–							–
–						–		15		-*-		16		–						–
–							–	17		--*		18			–					–
–					–			19		*--		20	–							–
–						–		21		-*-		22		–						–
–							–	23		--*		24			–					–
					3000	2000	2000	SUB-TOTAL					8716	8716	8716					

PANEL TOTAL:		LCL		LM		VA		AMPS
33148	+	6537	+	2179	=	41864	@208V 3ø =	116.2

PANEL "MSC" | VOLTAGE/PHASE: 208/120, 3ø, 4W | FEED FROM: "MSA"
LOCATION: 103 – PROC. RM | BUS AMPS: 200A | 10 KAIC
MOUNTING: SURFACE | MAIN BREAKER: MLO

LOADS	SEE NOTE	OUTLETS MISC	REC	LTG	VOLT AMPS A	B	C	CKT	BKR/POLE	ABC	BKR/POLE	CKT	VOLT AMPS A	B	C	OUTLETS MISC	REC	LTG	SEE NOTE	LOADS
PANEL H					13140			1	150	*--		2	–							–
–						12620		3		--*		4		–						–
–							11038	5	3	--*		6			–					–
PANEL R					7680			7	75	*--		8	–							–
–						7120		9		--*		10		–						–
–							6540	11	3	--*		12			–					–
–					–			13		*--		14	–							–
–						–	–	15		--*		16		–						–
–							–	17		--*		18			–					–
					20820	19740	17578	SUB-TOTAL					0	0	0					

PANEL TOTAL:		LCL		LM		VA		AMPS
58138	+	9950	+	1300	=	69388	@208V 3ø =	192.6

PANEL "H" | VOLTAGE/PHASE: 208/120, 3ø, 4W | FEED FROM: "MSC"
LOCATION: 103 – PROC. RM | BUS AMPS: 200A | 22 KAIC
MOUNTING: SURFACE | MAIN BREAKER: MLO

LOADS	SEE NOTE	OUTLETS MISC	REC	LTG	VOLT AMPS A	B	C	CKT	BKR/POLE	ABC	BKR/POLE	CKT	VOLT AMPS A	B	C	OUTLETS MISC	REC	LTG	SEE NOTE	LOADS
CU-1	LM,CL				2600			1	40	*--	15	2	297						LCL	FC-1
–						2600		3	2	--*		4		297						–
CU-2	LCL						2600	5	40	--*	15	6			297				LCL	FC-2
–					2600			7	2	*--	2	8	297							–
CU-3	LCL					2080		9	40	-*-	15	10		297					LCL	FC-3
–							2080	11	2	--*	2	12			297					–
CU-4	LCL				1560			13	40	*--	15	14	282						LCL	FC-4
–						1560		15	2	-*-	2	16		282						–
CU-5	LCL						1560	17	40	--*	15	18			282				LCL	FC-5
–					1560			19	2	*--	2	20	282							–
CU-6	LCL					1560		21	40	-*-	15	22		282					LCL	FC-6
–							1560	23	2	--*	2	24			282					–
CU-7	LCL				1560			25	40	*--	15	26	282						LCL	FC-7
–						1560		27	2	-*-	2	28		282						–
CU/FC-8	LCL						1040	29	25	--*		30			–					–
–					1040			31	2	*--		32	–							–
CU/FC-9	LCL						1040	33	25	-*-		34		–						–
–							1040	35	2	--*		36			–					–
CU/FC-10	LCL				780			37	25	*--		38	–							–
–						780		39	2	-*-		40	–							–
–							–	41		--*		42			–					–
					11700	11180	9880	SUB-TOTAL					1440	1440	1158					

PANEL TOTAL:		LCL		LM		VA		AMPS
36798	+	9200	+	1300	=	47298	@208V 3ø =	131.3

PANEL "R" | VOLTAGE/PHASE: 208/120, 3ø, 4W | FEED FROM: "MSC"
LOCATION: 103 – PROC. RM | BUS AMPS: 200A | 10 KAIC
MOUNTING: SURFACE | MAIN BREAKER: MLO

LOADS	SEE NOTE	OUTLETS MISC	REC	LTG	VOLT AMPS A	B	C	CKT	BKR/POLE	ABC	BKR/POLE	CKT	VOLT AMPS A	B	C	OUTLETS MISC	REC	LTG	SEE NOTE	LOADS
DRINKING FOUNTAIN					600			1	20/1	*--	20/1	2	540							MPR RCPT
WAITING RM RCPT						540		3	20/1	--*	20/1	4		180						MPR RCPT
WAITING RM RCPT							720	5	20/1	*--	20/1	6			540					BREAKROOM RCPT
WORKSTATIONS					1200			7	20/1	--*	20/1	8	360							BREAKROOM RCPT
WORKSTATION						600		9	20/1	-*-	20/1	10		1000						MICROWAVE
HALLWAY RCPT							540	11	20/1	--*	20/1	12			360					WAREHOUSE RCPT
OFFICE RCPT					360			13	20/1	*--	20/1	14	540							WAREHOUSE RCPT
OFF. WORKSTN./RCPT						780		15	20/1	-*-	20/1	16		540						WAREHOUSE RCPT
OFF. WORKSTN./RCPT							780	17	20/1	--*	20/1	18			360					WRHS, PROC. RCPT
OFFICE RCPT					360			19	20/1	*--	20/1	20	720							BOUTIQUE RCPT
OFFICE RCPT						360		21	20/1	-*-	20/1	22		540						BOUTIQUE RCPT
OFF. WORKSTN./RCPT							780	23	20/1	--*	20/1	24			180					GROCERY RCPT
RESTROOM RCPT					360			25	20/1	*--	20	26	1500							WH-1
RESTROOM RCPT						360		27	20/1	-*-	2	28		1500						–
OFFICE RCPT							360	29	20/1	--*	20/1	30			600					ROLL-UP DOOR
OFF. WORKSTN./RCPT					780			31	20/1	*--		32	–							–
OFFICE RCPT						360		33	20/1	-*-		34		–						–
OFF. WORKSTN./RCPT							780	35	20/1	--*		36			–					–
RESTROOM RCPT					360			37	20/1	*--		38	–							–
SERVER RM RCPT						360		39	20/1	-*-		40	–	–						–
MPR RCPT							540	41	20/1	--*		42			–					–
					4020	3360	4500	SUB-TOTAL					3660	3760	2040					

PANEL TOTAL:		LCL		LM		VA		AMPS
21340	+	750	+	–	=	22090	@208V 3ø =	61.3

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BOA Architecture Interiors Planning
1511 Cota Ave. Long Beach, CA 90813 Tel. 562-912-7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

NO.	DATE	DESCRIPTION

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer: –
Client: –
Date Issue: 01.16.2026
Job Number: XX-XXXX

Client:

Consultant:

- PANEL SCHEDULES

E3.0

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page:	(Page 1 of 9)
Project Address:	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared:	2026-01-16T19:21:27-05:00

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.

A. GENERAL INFORMATION

01	Project Location (city)	Palmdale	04	Total Conditioned Floor Area (ft²)	12,344
02	Climate Zone	14	05	Total Unconditioned Floor Area (ft²)	160
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)1 / 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	12344	Area Category Method	160
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	12344		160	

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(e)1i	Area Category 140.6(e)2 /170.2(e)4	Area Category Additional 140.6(e)2D / 170.2(e)4Aiv (+)	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		5,254.5			=	5,254.5	≥ 4,479.2		=	4479.2			COMPLIES
Unconditioned		2,220.15			=	2,220.15	≥ 2,064.8		=	2064.8			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.

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

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	Field Inspector Fail
01	02	03	04	05	06	07	08	09	10	
L-1	Linear Pendant Light	No	NA	10	Mfr. Spec	236	No	2,360	☐	☐
L-2	8' Linear Pendant LED	No	NA	80	Mfr. Spec	11	No	880	☐	☐
L-3	4' Linear Pendant LED	No	NA	40	Mfr. Spec	7	No	280	☐	☐
L-4	16" High Bay Pendant LED	No	NA	85.2	Mfr. Spec	6	No	511.2	☐	☐
L-5	4' Surface Mounted LED	No	NA	20	Mfr. Spec	17	No	340	☐	☐
L-6	6" Recessed Downlight LED	No	NA	12	Mfr. Spec	9	No	108	☐	☐
					Total Designed Watts: CONDITIONED SPACES			4,479.2		

Designed Wattage: Unconditioned Spaces

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	Field Inspector Fail
01	02	03	04	05	06	07	08	09	10	
L-4	16" High Bay Pendant LED	No	NA	85.2	Mfr. Spec	24	No	2,044.8	☐	☐
L-5	4' Surface Mounted LED	No	NA	20	Mfr. Spec	1	No	20	☐	☐
					Total Designed Watts: UNCONDITIONED SPACES			2,064.8		

[1]FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(e)4B /170.2(e)1D 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.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	☐	☐
Required >= 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(q)2A	Field Inspector	
								Pass	Fail
Warehouse	Commercial Industrial Warehouse	Auth. Personnel	Dimmer	NA: Elec. equip. rm	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
142 - Grocery Shop	Grocery Sales	Auth. Personnel	Dimmer	NA: Elec. equip. rm	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Boutique	Retail Merchandise Sales Wholesale Showroom	Auth. Personnel	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Multi-Purpose Room	Conference, Multipurpose and Meeting Area	Readily Accessible	Dimmer	Occupancy Sensor	NA: General Lig < 120W	Included	No	☐	☐
Processing Room	All Other Space Types	Auth. Personnel	Dimmer	NA: Elec. equip. rm	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Break Room	Lounge	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Restrooms	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
IT Room	All Other Space Types	Readily Accessible	NA: Enclosed area <100SF	NA: Elec. equip. rm	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Offices	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Seated Waiting Area	Main Entry Lobby	Auth. Personnel	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
							13		
							Plan Sheet Showing Daylit Zones:		
							E2.2		

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(b) are being used..

Conditioned Spaces

Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
01	02	03	04	05	06	
					Area Category	PAF
142 - Grocery Shop	Grocery Sales	1	1,462	1,462	No	No
Boutique	Retail Merchandise Sales Wholesale Showroom	0.95	881	836.95	No	No
Multi-Purpose Room	Conference, Multipurpose and Meeting Area	0.75	880	660	No	No
Processing Room	All Other Space Types	0.4	845	338	No	No
Break Room	Lounge	0.55	453	249.15	No	No
Offices	Office (<=250 square feet)	0.65	566	367.9	No	No
Seated Waiting Area	Main Entry Lobby	0.7	1,915	1,340.5	No	No
	TOTALS:		7,002	5,254.5	See Tables J, or P for detail	

Unconditioned Spaces

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	
01	02	03	04	05	06	
					Area Category	PAF
Warehouse	Commercial Industrial Warehouse	0.4	4,819	1,927.6	No	No
Restrooms	Restroom	0.65	423	274.95	No	No
IT Room	All Other Space Types	0.4	44	17.6	No	No
	TOTALS:		5,286	2,220.15	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.

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.

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.	Boutique; Multi-Purpose Room; Break Room; Restrooms; Offices; Seated Waiting Area
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Multi-Purpose Room; Seated Waiting Area
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Warehouse; 142 - Grocery Shop; Boutique; Multi-Purpose Room; Processing Room; Break Room; Restrooms; IT Room; Offices; Seated Waiting Area

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Kevin Friedman	Documentation Author Signature:
Company: ENGINEERING – DESIGN – ANALYSIS, INCORPORATED	Signature Date: 2026-01-16
Address: 10061 TALBERT AVENUE SUITE 300	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: FOUNTAIN VALLEY CA 92708	Phone: (714) 913-8383

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

These drawings and accompanying, as instruments of service, are the exclusive property of the Architect and their use and publication shall be restricted to the original site for which they were prepared. Re-use, reproduction or publication by any method, in whole or part, is prohibited by written permission from the Architect. Title to these plans and specifications shall remain with the Architect without prejudice, and visual with them shall constitute prima facie evidence of acceptance of these restrictions.

BOA
Architecture
Interiors
Planning
1511 Cota Ave. Long Beach, CA 90813 Tel. 562-912-7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

BY	DESCRIPTION	DATE

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer: –
Client: –
Date Issue: 01.16.2026
Job Number: XX–XXXX

Client:

Consultant:

- TITLE 24 – INDOOR
-
-

E4.0

TITLE 24 – INDOOR

STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 1 of 7)
Project Address:	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-20T17:53:53-05:00

This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(b)2F for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4ivH

A. GENERAL INFORMATION

01	Project Location (city)	Palmdale	02	Climate Zone	14
			03	Occupancy Types Within Project:	All Other Occupancies/Warehouse

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work [1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/360.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
MSA	New electrical service equipment and meter	225	☒	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/160.3, 130.1/160.5, and 110.3/160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop §90.5(j)/160.6(c), no other requirements from §130.5/160.6 are required.
If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.
[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

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STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 2 of 7)
	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-20T17:53:53-05:00

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.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(d)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
AND		Yes	AND	Yes	AND	Yes		COMPLIES with Exceptional Conditions

D. EXCEPTIONAL CONDITIONS

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

Table B indicates the project is exempt from 130.5(a) Service Electrical Metering requirements because the utility company has provided the project a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

E. ADDITIONAL REMARKS

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

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STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 3 of 7)
	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-20T17:53:53-05:00

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B [1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
MSA					
HVAC systems and components	All HVAC in aggregate	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	E3.0	☐	☐
Lighting including exit, egress and exterior	All lighting in aggregate	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	E3.0	☐	☐
Plug Loads and appliances less than 25kVA	All plug loads in aggregate Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	E3.0	☐	☐
Other non-HVAC loads and appliances greater than or equal to 25kVA	All loads in aggregate	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	E3.0	☐	☐

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STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 4 of 7)
	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-20T17:53:53-05:00

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Fiii/ 180.2(b)4Aiii.

01	02		03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method		Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
					Pass	Fail
MSA	☒ Voltage drop less than 5%	☐ Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	E1.0, E5.0	☐	☐

NOTES: If "Permitted by CA Elec Code " is selected under Compliance Method above, please indicate where the exception applies in the space provided below.
[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(d)/ 160.6(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

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STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 5 of 7)
	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-20T17:53:53-05:00

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

01	02	03	04	05	06	07	
Room name or Description	Location/ Type of Controlled Receptacles[1]	Shut-Off Controls	Demand Responsive Controls	Permanent (Durable Marking) Will be Used	Location of Requirements in Construction Documents	Field Inspector	
						Pass	Fail
103 - Lobby	Within 6ft of uncontrolled receptacle	Occupancy Sensor	NA: Building does not require demand responsive lighting controls per 110.12(c)	☒	E1.1	☐	☐
104-106, 108, 109 - Offices	Within 6ft of uncontrolled receptacle	Occupancy Sensor	NA: Building does not require demand responsive lighting controls per 110.12(c)	☒	E1.1	☐	☐
110 - MPR Room	Within 6ft of uncontrolled receptacle	Occupancy Sensor	NA: Building does not require demand responsive lighting controls per 110.12(c)	☒	E1.1	☐	☐
112 - Break Room	Within 6ft of uncontrolled receptacle	Occupancy Sensor	NA: Building does not require demand responsive lighting controls per 110.12(c)	☒	E1.1	☐	☐
Hallway	---	---		☐		☐	☐
114 - Warehouse	---	---		☐		☐	☐
101 - Grocery Shop	---	---		☐		☐	☐
102 - Boutique	---	---		☐		☐	☐
103 - Processing Room	---	---		☐		☐	☐
114 - Warehouse	---	---		☐		☐	☐

** NOTES: If "Other" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*
[1] FOOTNOTES: Receptacles dedicated to refrigerators and water dispensers in kitchens, located a minimum of 6ft above the floor specifically for clocks, network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms, circuits rated more than 20 Amps, or connected to a UPS that are intended to be in continuous use and are marked to differentiate them from other receptacles or circuits are excepted from the requirements. ,

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 334650-0126-0005 Report Generated: 2026-01-20 14:53:56

STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 6 of 7)
	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-20T17:53:53-05:00

K. 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-ELC-E - Must be submitted for all buildings

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

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STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 7 of 7)
Project Address:	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-20T17:53:53-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Kevin Friedman	Documentation Author Signature:
Company: ENGINEERING – DESIGN – ANALYSIS, INCORPORATED	Signature Date: 2026-01-20
Address: 10081 TALBERT AVENUE SUITE 300	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: FOUNTAIN VALLEY CA 92708	Phone: (714) 913-8393

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 334650-0126-0005 Report Generated: 2026-01-20 14:53:56

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 1 of 9)
Project Address:	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-21T16:48:21-05:00

This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2I 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)4Biv 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)	Palmdale	04	Total Illuminated Hardscape Area (ft²)	32993
02	Climate Zone	14			
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)6i or 141.0(b)2I / 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)6i	
☐ 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.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 334650-0126-0007 Report Generated: 2026-01-21 13:48:24

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 2 of 9)
	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-21T16:48:21-05:00

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)2I / 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)6i (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6i (See Table J)	+	Sales Frontage 140.7(d)3 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6i (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6i (See Table M)	OR Existing Power Allowance 141.0(b)2I / 180.2(b)4Bv (See Table N)	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
1,070.47	+	30	+	---	+	---	+	164.97	OR ---	= 1,265.44	≥	1,100	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.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 334650-0126-0007 Report Generated: 2026-01-21 13:48:24

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 3 of 9)
	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-21T16:48:21-05:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6i 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)2i, 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 [3]	Luminaire Status [4]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) /160.5(c)1 [4]	Field Inspector	
										Pass	Fail
L-1	1-Light Square Light Pole	☐ Linear	140	Mfr. Spec	2	New	☐	280	N/A: < 6200 lumens	☐	☐
L-2	2-Light Square Light Pole	☐ Linear	70	Mfr. Spec	10	New	☐	700	N/A: < 6200 lumens	☐	☐
L-3	Exterior Wall Sconce LED	☐ Linear	40	Mfr. Spec	3	New	☐	120	N/A: < 6200 lumens	☐	☐
							Total Design Watts:	1100			

** 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/ft 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 Preinstalled" 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)[1] /160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

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STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
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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
Parking Lot Hardscape: "L-1"	Astronomical Timer	Provided	N/A: Lighting for Public Roadways	☐	☐
Parking Lot Hardscape: "L-2"	Astronomical Timer	Provided	N/A: Lighting for Public Roadways	☐	☐
Pedestrian Hardscape: "L-3"	Astronomical Timer	Provided	N/A: Each Luminaire <= 40 Watts	☐	☐

[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 it and iii.

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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-B while "Use it or lose it" Allowances are per Table 140.7-B / Table 170.2-C. 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		

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)		Linear Wattage Allowance (LWA)				Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (ft)	Allowed Density (W/ft)	Linear Allowance (Watts)	
Parking Lot Hardscape	28605	0.019	543.5	812	0.15	121.8	665.3
Pedestrian Hardscape	4388	0.019	83.37	812	0.15	121.8	205.17
Initial Wattage Allowance for Entire Site (Watts):							200
Instances of Initial Wattage Allowance (L2 0 only)[1]							
Total General Hardscape Allowance (Watts):							1070.47

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J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Application per Table 140.7-B [1]	# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Warehouse / Lobby Entrance	Building Entrance/Exit	2	15	30	L-2	70	1	70	30
					L-3	40	1	40	
					Total Design Watts for this Area:			110	
					Total Allowance (Watts) All Areas:				30

[1] FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.
[2] The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B / Table 170.2-S.
[3] For luminaires indicated in Table Y as linear, wattage in column 07 is W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

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.

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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 (ft²)	Allowed Density (W/ft²)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Parking Lot Hardscape	ParkingPedestrianSecurity	28605	0	143.03	L-1	140	2	280	143.03
					Total Design Watts for this Area:			280	
Pedestrian Hardscape	ParkingPedestrianSecurity	4388	0	21.94	L-2	70	1	70	21.94
					Total Design Watts for this Area:			70	
					Total Allowance (Watts) All Areas:				164.97

[1] FOOTNOTES: See Table 140.7-B / Table 170.2-S for rules for calculating the specific areas (ft²) for these additional lighting allowances.
[2] For luminaires indicated in Table Y as linear, wattage in column 07 is W/ft 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

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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.	Parking Lot Hardscape: "L-1", Parking Lot Hardscape: "L-2", Pedestrian Hardscape: "L-3".

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These drawings and accompanying, as instruments of service, are the exclusive property of the Architect and their use and publication shall be restricted to the original site for which they were prepared. Re-use, reproduction or publication by any method, in whole or part, is prohibited by written permission from the Architect. Title to these plans and specifications shall remain with the Architect without prejudice, and visual with them shall constitute prima facie evidence of acceptance of these restrictions.

MSA

FAULT - X1
$I_{bolted\ s.c.\ (LL\text{-}G)}$ 42,000 AMPS
Voltage (L-L) 240 V

CONDUCTOR RUN - C1
LENGTH 63 FT
SIZE 1/0
QTY (per phase) 1
TYPE Three Single Conductors
CONDUIT Steel
WIRE Cu, 600 V

FAULT - X2
$I_{bolted\ s.c.\ (LL\text{-}G)}$ 13,377 AMPS
Voltage (L-L) 240 V

CONDUCTOR

PANEL H

MSA

FAULT - X1
$I_{bolted\ s.c.\ (LL\text{-}G)}$ 42,000 AMPS
Voltage (L-L) 240 V

CONDUCTOR RUN - C1
LENGTH 65 FT
SIZE 4
QTY (per phase) 1
TYPE Three Single Conductors
CONDUIT Steel
WIRE Cu, 600 V

FAULT - X2
$I_{bolted\ s.c.\ (LL\text{-}G)}$ 6,880 AMPS
Voltage (L-L) 240 V

CONDUCTOR

PANEL L

MSA

FAULT - X1
$I_{bolted\ s.c.\ (LL\text{-}G)}$ 42,000 AMPS
Voltage (L-L) 240 V

CONDUCTOR RUN - C1
LENGTH 67 FT
SIZE 3
QTY (per phase) 1
TYPE Three Single Conductors
CONDUIT Steel
WIRE Cu, 600 V

FAULT - X2
$I_{bolted\ s.c.\ (LL\text{-}G)}$ 7,993 AMPS
Voltage (L-L) 240 V

CONDUCTOR

PANEL R1

MSA

FAULT - X1
$I_{bolted\ s.c.\ (LL\text{-}G)}$ 42,000 AMPS
Voltage (L-L) 240 V

CONDUCTOR RUN - C1
LENGTH 69 FT
SIZE 4
QTY (per phase) 1
TYPE Three Single Conductors
CONDUIT Steel
WIRE Cu, 600 V

FAULT - X2
$I_{bolted\ s.c.\ (LL\text{-}G)}$ 6,468 AMPS
Voltage (L-L) 240 V

CONDUCTOR

PANEL R2

MSA

FAULT - X1
$I_{bolted\ s.c.\ (LL\text{-}G)}$ 42,000 AMPS
Voltage (L-L) 240 V

CONDUCTOR RUN - C1
LENGTH 71 FT
SIZE 1/0
QTY (per phase) 1
TYPE Three Single Conductors
CONDUIT Steel
WIRE Cu, 600 V

FAULT - X2
$I_{bolted\ s.c.\ (LL\text{-}G)}$ 12,314 AMPS
Voltage (L-L) 240 V

CONDUCTOR

PANEL F

MSA

FAULT - X1
$I_{bolted\ s.c.\ (LL\text{-}G)}$ 42,000 AMPS
Voltage (L-L) 240 V

CONDUCTOR RUN - C1
LENGTH 73 FT
SIZE 8
QTY (per phase) 1
TYPE Three Single Conductors
CONDUIT Steel
WIRE Cu, 600 V

FAULT - X2
$I_{bolted\ s.c.\ (LL\text{-}G)}$ 2,759 AMPS
Voltage (L-L) 240 V

CONDUCTOR

PANEL M

SOUTHERN CALIFORNIA EDISON

13.0 Short-Circuit Current

Where state and/or local building inspection agencies require that customers install service equipment with overcurrent protective devices with a short-circuit rating equal to or not less than the available short-circuit current at its supply terminal, the customer should obtain from SCE, the Company's contribution to short-circuit currents at the customer's service entrance.

The Company's contribution to short-circuit currents, at the customer's service entrance, will be as follows for the applicable type of service to be rendered.

13.1 10000 A and Below (100–400 Maximum Amperes Self-Contained Type Meter Panels)

The Company's contribution to the available short-circuit current at the service entrance will not exceed 10000 A for single-family dwellings, duplexes, or individually metered mobile homes that use self-contained type Company meters.

Temporary service, when served from a single-phase 120/240 V transformer, will not exceed 10000 A. Self-contained 320/400 A (Class 320) type meter panels are **NOT** acceptable for temporary service.

13.2 Greater than 10000 A—Multi-Family Residential (Three or More Grouped Meters), Commercial, and Industrial

Table 1–6: Short-Circuit Current

Phase	Serving Voltage (V)	Service Entrance Ampacities (A)	Utilities Contribution to Fault Current will Not Exceed (A)
Single	120/240	600 or less	42000
Three	120/208 or 240	800 or less	42000
Three	480	1200 or less	30000

13.3 Exceptional Cases

When the application of the above fault current limitation appears too restrictive for new installations, the customer may request the utility to provide the available fault currents for a specific case and location.

All new installations with service voltage or service entrance ampacities larger than those stated above will be handled as individual cases, and the Company will provide the available fault duty for each installation.

14.0 Electric and Magnetic Fields

Electric and magnetic fields are also known as "electromagnetic fields" or "EMF." Electric and magnetic fields are a natural result of electricity. Whenever an electric charge or current is present, either natural or man-made, electric and magnetic fields occur. Electric power distribution facilities generate both electric and magnetic fields.

14.1 Electric Fields

Electric fields result when voltage is present. The strength "E" of electric fields is represented by "volts per meter." As the distance increases from the source, the electric field strength decreases rapidly.

ESR–1	General Information	EFFECTIVE DATE 10-31-2025
PAGE 1–30	Electrical Service Requirements ►SCE Public◄	APPROVED

FAULT CURRENT CALCULATIONS

Southwire Voltage Drop Calculator (PANEL H)

Inputs

User Mode	Commercial 75°C
Current Type	AC
Units for Length	Feet
Phase	Three
Conductor	Copper
Installation	Steel Conduit
Length of Cable Run	63.0 Feet
Conductor Size	1/0 AWG
Voltage	240 Volts
Max Voltage Drop	3 %
Current at end of Cable Run	118.1 Amps
Power Factor	0.9

Results for Voltage Drop Calculation
Voltage drop will be limited to 0.72% or less with 1 parallel (set) of 1/0 AWG copper conductor delivering a total of 118.1 amps on a 240 volt three phase system for a distance of 63 feet.

Engineering Information
150 Amps Rated ampacity of selected conductor
0.1220 Ohms Resistance (Ohms per 1000 feet)
0.0550 Ohms Reactance (Ohms per 1000 feet)
0.9 Power Factor

This voltage drop calculator is applicable only to NEC applications and is designed for applications using AWG and KCMIL sizes only. It does not optimize conductor sizes for several different loads at various points in a circuit. The total combined load and length of the circuit must be used. Consult with an engineer if your application does not fit into one of the following categories and/or requires more complex engineering calculations.

** Note to User:
COMMERCIAL MODE CALCULATIONS: All ampacity values are taken from NEC 310.15. The conductor characteristics are taken from Chapter 9, Tables 8 & 9 of the NEC. No calculations consider temperature correction factors or conductor de-rating for number of current-carrying conductors in a raceway. These calculations are not optimized for medium voltage or high voltage installations (2400 Volts or more). These calculations do not apply to flexible cords.

Southwire Voltage Drop Calculator (PANEL L)

Inputs

User Mode	Commercial 75°C
Current Type	AC
Units for Length	Feet
Phase	Three
Conductor	Copper
Installation	Steel Conduit
Length of Cable Run	65.0 Feet
Conductor Size	4 AWG
Voltage	240 Volts
Max Voltage Drop	3 %
Current at end of Cable Run	59.9 Amps
Power Factor	0.9

Results for Voltage Drop Calculation
Voltage drop will be limited to 0.85% or less with 1 parallel (set) of 4 AWG copper conductor delivering a total of 59.9 amps on a 240 volt three phase system for a distance of 65 feet.

Engineering Information
85 Amps Rated ampacity of selected conductor
0.3080 Ohms Resistance (Ohms per 1000 feet)
0.0600 Ohms Reactance (Ohms per 1000 feet)
0.9 Power Factor

This voltage drop calculator is applicable only to NEC applications and is designed for applications using AWG and KCMIL sizes only. It does not optimize conductor sizes for several different loads at various points in a circuit. The total combined load and length of the circuit must be used. Consult with an engineer if your application does not fit into one of the following categories and/or requires more complex engineering calculations.

** Note to User:
COMMERCIAL MODE CALCULATIONS: All ampacity values are taken from NEC 310.15. The conductor characteristics are taken from Chapter 9, Tables 8 & 9 of the NEC. No calculations consider temperature correction factors or conductor de-rating for number of current-carrying conductors in a raceway. These calculations are not optimized for medium voltage or high voltage installations (2400 Volts or more). These calculations do not apply to flexible cords.

Southwire Voltage Drop Calculator (PANEL R1)

Inputs

User Mode	Commercial 75°C
Current Type	AC
Units for Length	Feet
Phase	Three
Conductor	Copper
Installation	Steel Conduit
Length of Cable Run	67.0 Feet
Conductor Size	3 AWG
Voltage	240 Volts
Max Voltage Drop	3 %
Current at end of Cable Run	79.7 Amps
Power Factor	0.9

Results for Voltage Drop Calculation
Voltage drop will be limited to 0.95% or less with 1 parallel (set) of 3 AWG copper conductor delivering a total of 79.7 amps on a 240 volt three phase system for a distance of 67 feet.

Engineering Information
100 Amps Rated ampacity of selected conductor
0.2450 Ohms Resistance (Ohms per 1000 feet)
0.0590 Ohms Reactance (Ohms per 1000 feet)
0.9 Power Factor

This voltage drop calculator is applicable only to NEC applications and is designed for applications using AWG and KCMIL sizes only. It does not optimize conductor sizes for several different loads at various points in a circuit. The total combined load and length of the circuit must be used. Consult with an engineer if your application does not fit into one of the following categories and/or requires more complex engineering calculations.

** Note to User:
COMMERCIAL MODE CALCULATIONS: All ampacity values are taken from NEC 310.15. The conductor characteristics are taken from Chapter 9, Tables 8 & 9 of the NEC. No calculations consider temperature correction factors or conductor de-rating for number of current-carrying conductors in a raceway. These calculations are not optimized for medium voltage or high voltage installations (2400 Volts or more). These calculations do not apply to flexible cords.

Southwire Voltage Drop Calculator (PANEL R2)

Inputs

User Mode	Commercial 75°C
Current Type	AC
Units for Length	Feet
Phase	Three
Conductor	Copper
Installation	Steel Conduit
Length of Cable Run	69.0 Feet
Conductor Size	4 AWG
Voltage	240 Volts
Max Voltage Drop	3 %
Current at end of Cable Run	38.5 Amps
Power Factor	0.9

Results for Voltage Drop Calculation
Voltage drop will be limited to 0.58% or less with 1 parallel (set) of 4 AWG copper conductor delivering a total of 38.5 amps on a 240 volt three phase system for a distance of 69 feet.

Engineering Information
85 Amps Rated ampacity of selected conductor
0.3080 Ohms Resistance (Ohms per 1000 feet)
0.0600 Ohms Reactance (Ohms per 1000 feet)
0.9 Power Factor

This voltage drop calculator is applicable only to NEC applications and is designed for applications using AWG and KCMIL sizes only. It does not optimize conductor sizes for several different loads at various points in a circuit. The total combined load and length of the circuit must be used. Consult with an engineer if your application does not fit into one of the following categories and/or requires more complex engineering calculations.

** Note to User:
COMMERCIAL MODE CALCULATIONS: All ampacity values are taken from NEC 310.15. The conductor characteristics are taken from Chapter 9, Tables 8 & 9 of the NEC. No calculations consider temperature correction factors or conductor de-rating for number of current-carrying conductors in a raceway. These calculations are not optimized for medium voltage or high voltage installations (2400 Volts or more). These calculations do not apply to flexible cords.

Southwire Voltage Drop Calculator (PANEL F)

Inputs

User Mode	Commercial 75°C
Current Type	AC
Units for Length	Feet
Phase	Three
Conductor	Copper
Installation	Steel Conduit
Length of Cable Run	71.0 Feet
Conductor Size	1/0 AWG
Voltage	240 Volts
Max Voltage Drop	3 %
Current at end of Cable Run	129.9 Amps
Power Factor	0.9

Results for Voltage Drop Calculation
Voltage drop will be limited to 0.89% or less with 1 parallel (set) of 1/0 AWG copper conductor delivering a total of 129.9 amps on a 240 volt three phase system for a distance of 71 feet.

Engineering Information
150 Amps Rated ampacity of selected conductor
0.1220 Ohms Resistance (Ohms per 1000 feet)
0.0550 Ohms Reactance (Ohms per 1000 feet)
0.9 Power Factor

This voltage drop calculator is applicable only to NEC applications and is designed for applications using AWG and KCMIL sizes only. It does not optimize conductor sizes for several different loads at various points in a circuit. The total combined load and length of the circuit must be used. Consult with an engineer if your application does not fit into one of the following categories and/or requires more complex engineering calculations.

** Note to User:
COMMERCIAL MODE CALCULATIONS: All ampacity values are taken from NEC 310.15. The conductor characteristics are taken from Chapter 9, Tables 8 & 9 of the NEC. No calculations consider temperature correction factors or conductor de-rating for number of current-carrying conductors in a raceway. These calculations are not optimized for medium voltage or high voltage installations (2400 Volts or more). These calculations do not apply to flexible cords.

Southwire Voltage Drop Calculator (PANEL M)

Inputs

User Mode	Commercial 75°C
Current Type	AC
Units for Length	Feet
Phase	Three
Conductor	Copper
Installation	Steel Conduit
Length of Cable Run	73.0 Feet
Conductor Size	8 AWG
Voltage	240 Volts
Max Voltage Drop	3 %
Current at end of Cable Run	22.3 Amps
Power Factor	0.9

Results for Voltage Drop Calculation
Voltage drop will be limited to 0.86% or less with 1 parallel (set) of 8 AWG copper conductor delivering a total of 22.3 amps on a 240 volt three phase system for a distance of 73 feet.

Engineering Information
50 Amps Rated ampacity of selected conductor
0.7760 Ohms Resistance (Ohms per 1000 feet)
0.0650 Ohms Reactance (Ohms per 1000 feet)
0.9 Power Factor

This voltage drop calculator is applicable only to NEC applications and is designed for applications using AWG and KCMIL sizes only. It does not optimize conductor sizes for several different loads at various points in a circuit. The total combined load and length of the circuit must be used. Consult with an engineer if your application does not fit into one of the following categories and/or requires more complex engineering calculations.

** Note to User:
COMMERCIAL MODE CALCULATIONS: All ampacity values are taken from NEC 310.15. The conductor characteristics are taken from Chapter 9, Tables 8 & 9 of the NEC. No calculations consider temperature correction factors or conductor de-rating for number of current-carrying conductors in a raceway. These calculations are not optimized for medium voltage or high voltage installations (2400 Volts or more). These calculations do not apply to flexible cords.

VOLTAGE DROP CALCULATIONS

BOA Architecture Interiors Planning
1511 Cota Ave. Long Beach, CA 90813 Tel. 562-912-7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

DATE	DESCRIPTION

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer: –
Client: –
Date Issue: 01.16.2026
Job Number: XX-XXXX

Client:

Consultant:

- FAULT CURRENT, VOLTAGE DROP CALCULATIONS

E5.0



LUMINAIRE SCHEDULE											
SYMBOL	QTY	LABEL	ARRANGEMENT	[MANUFAC]	DESCRIPTION	LUMINAIRE LUMENS	LUMINAIRE WATTS	ARRANGEMENT LUMINAIRE LUMENS	ARRANGEMENT WATTS	BF	MOUNTING HEIGHT
⊙	4	L9	SINGLE	COOPER LIGHTING SOLUTIONS - METALUX	UHBS2-1218-W-L83065-LOW-4000K-EL14	12764	14	12764	14	1.000	18
⊙	2	L4	SINGLE	COOPER LIGHTING SOLUTIONS - PRENTALUX	PRLX-241-935-74L-C-U-S-WHTE-X -EL14	6588	61.5	6588	61.5	1.000	8
▭	6	L3	SINGLE	NULITE LIGHTING	RP13-D-FF-08L35-1C-U-D-W-4-EM	3001	14	3001	14	1.000	8
▭	2	L2	SINGLE	NULITE LIGHTING	RP13-D-FF-08L35-1C-U-D-W-4-EM	3001	14	3001	14	1.000	8
▭	3	L1	SINGLE	NULITE LIGHTING	RP13-D-FF-08L35-1C-U-D-W-4-EM	3001	14	3001	14	1.000	8

CALCULATION SUMMARY							
LABEL	CALCTYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
RM100&HALL_FLOOR	ILLUMINANCE	Fc	5.65	11.6	1.3	4.35	8.92
RM101_FLOOR	ILLUMINANCE	Fc	4.18	8.8	1.6	2.61	5.50
RM103_FLOOR	ILLUMINANCE	Fc	5.75	12.0	1.0	5.75	12.00
RM110_FLOOR	ILLUMINANCE	Fc	5.46	9.0	2.8	1.95	3.21
RM114_FLOOR	ILLUMINANCE	Fc	2.92	4.2	1.1	2.65	3.82

NORTH

EMERGENCY LIGHTING PHOTOMETRIC

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

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Planning
1511 Cota Ave. Long Beach, CA 90813 Tel. 562-912-7900

PALMDALE SAVES
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38820 3RD ST E

NO.	DATE	DESCRIPTION
1		

Designer: Designer
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Date Issue: 01.16.2026
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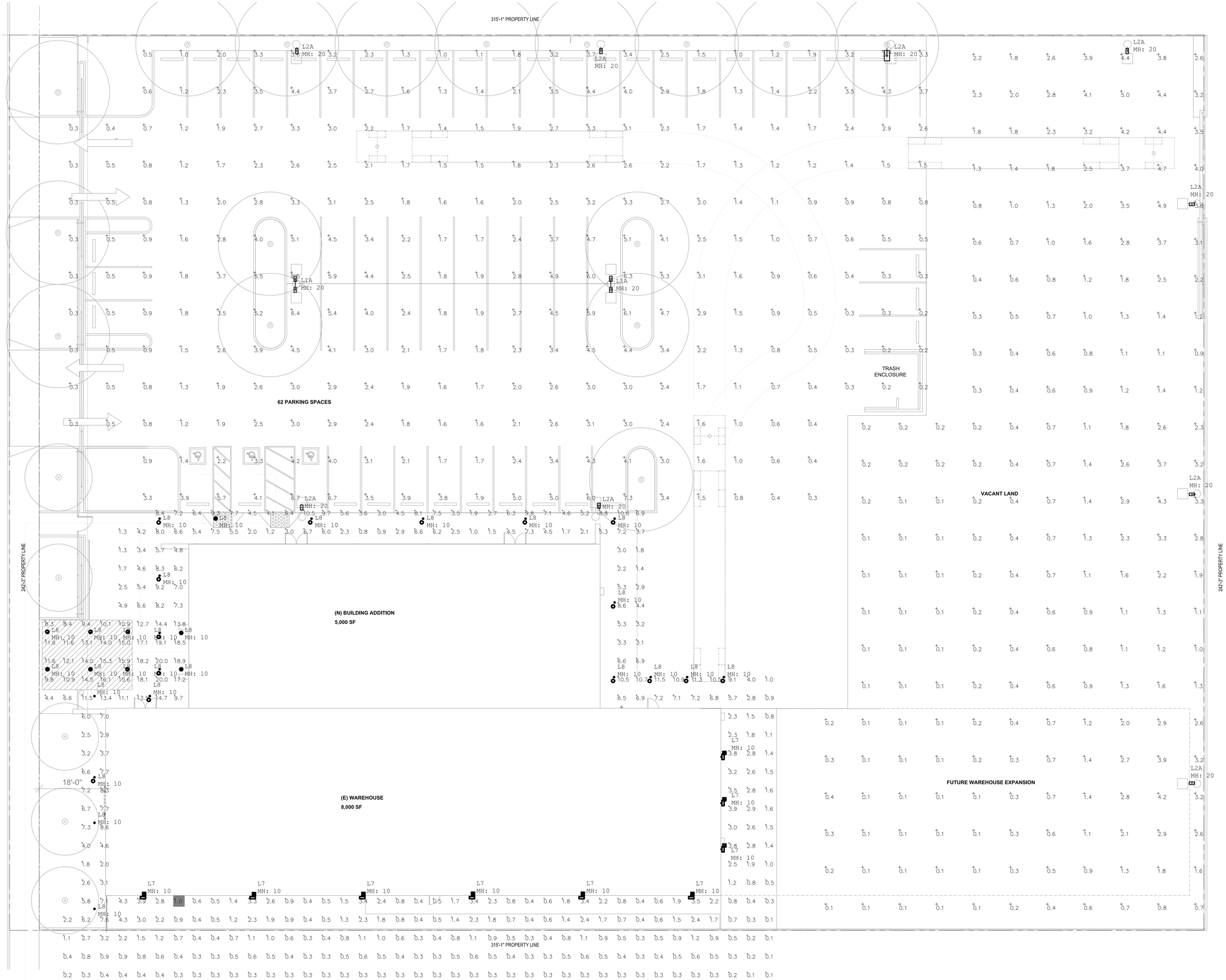
Client:

Consultant:

- FAULT CURRENT,
- VOLTAGE DROP
- CALCULATIONS

E5.0

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LUMINAIRE SCHEDULE

SYMBOL	QTY	LABEL	ARRANGEMENT	[MANUFAC]	DESCRIPTION	LUMINAIRE LUMENS	LUMINAIRE WATTS	ARRANGEMENT LUMINAIRE LUMENS	ARRANGEMENT WATTS	BF	MOUNTING HEIGHT
	2	L1A	BACK-BACK	RAYON LIGHTING	T320LEDB-70W-UNV-40K-T4	9003	70	18006	140	1.000	20
	9	L2A	SINGLE	RAYON LIGHTING	T320LEDB-70W-UNV-40K-T4	9003	70	9003	70	1.000	20
	9	L7	SINGLE	RAYON LIGHTING	T652LEDB-30W-UNV-3000K-T4 EMBW	3915	8	3915	8	1.000	10
	27	L8	SINGLE	COOPER LIGHTING SOLUTIONS - HALO	LCR615RD9FSE010	2329	24.3	2329	24.3	1.000	10

CALCULATION SUMMARY

LABEL	CALCTYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
BLDG AREA	ILLUMINANCE	Fc	3.80	20.0	0.1	38.00	200.00
PARKING	ILLUMINANCE	Fc	2.28	7.3	0.2	11.40	36.50
VACANT LOT	ILLUMINANCE	Fc	1.28	5.0	0.1	12.80	50.00

NORTH

SITE LIGHTING PHOTOMETRIC

SCALE: 3/32"=1'-0"

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Job Number: XX-XXXX

Client:

Consultant:

- SITE LIGHTING
- PHOTOMETRICS
-

E6.1

SPLIT SYSTEM HEAT PUMP FAN COIL

MARK	CU SERVICE (SYSTEM)	MFGR & MODEL	LOCATION	SERVICE	TYPE	FAN COIL		LINE SIZED		CAPACITY					ELECTRICAL			SEER 2	OPER. WT. LBS	OSA CFM	FILTERS SIZE (IN) ... QTY	ACCESSORIES/REMARKS
						ESP INCHES	CFM	RS	RL	COOLING (F)			HEATING (F)		FAN HP	FLA MCA MOCP	V/PH					
										TMBH	SMBH	AMBIENT	MBH	AMBIENT								
FC-1, 2	CU-1, 2	CARRIER MMD-UP0541HP-UL	CEILING SPACE	WAITING AREA	DUCTED CONCEALED	0.8	1415	5/8"	3/8"	54	43	95	60	47	–	3.46 4.33 15	208/1	19.05	98	110	FIELD SUPPLIED MERV 13	PROVIDE FIELD-FABRICATED FILTER BANK, MERV 13 FILTRATION (FACTORY OR FIELD FABRICATED), MICROPROCESSOR CONTROLLER WITH 7-DAY SCHEDULING CAPABILITY, REMOTE SENSOR, SMOKE DETECTOR
FC-3	CU-3	CARRIER MMD-UP0481HP-UL	CEILING SPACE	GROCERY SHOP	DUCTED CONCEALED	0.6	1235	5/8"	3/8"	48	38	95	54	47	–	3.10 3.88 15	208/1	19.45	98	240	FIELD SUPPLIED MERV 13	PROVIDE FIELD-FABRICATED FILTER BANK, MERV 13 FILTRATION (FACTORY OR FIELD FABRICATED), MICROPROCESSOR CONTROLLER WITH 7-DAY SCHEDULING CAPABILITY, REMOTE SENSOR
FC-4	CU-4	CARRIER MMD-UP0361HP-UL	CEILING SPACE	OFFICE SPACE	DUCTED CONCEALED	0.6	1130	5/8"	3/8"	36	29	95	40	47	–	2.75 3.44 15	208/1	20.3	98	106	FIELD SUPPLIED MERV 13	PROVIDE FIELD-FABRICATED FILTER BANK, MERV 13 FILTRATION (FACTORY OR FIELD FABRICATED), MICROPROCESSOR CONTROLLER WITH 7-DAY SCHEDULING CAPABILITY, REMOTE SENSOR
FC-5, 6	CU-5, 6	CARRIER MMD-UP0361HP-UL	CEILING SPACE	MULTI PURPOSE ROOM	DUCTED CONCEALED	0.6	1130	5/8"	3/8"	36	29	95	40	47	–	2.75 3.44 15	208/1	20.3	98	227	FIELD SUPPLIED MERV 13	PROVIDE FIELD-FABRICATED FILTER BANK, MERV 13 FILTRATION (FACTORY OR FIELD FABRICATED), MICROPROCESSOR CONTROLLER WITH 7-DAY SCHEDULING CAPABILITY, REMOTE SENSOR, SMOKE DETECTOR
FC-7	CU-7	CARRIER MMD-UP0361HP-UL	CEILING SPACE	BOUTIQUE	DUCTED CONCEALED	0.6	1130	5/8"	3/8"	36	29	95	40	47	–	2.75 3.44 15	208/1	20.3	98	220	FIELD SUPPLIED MERV 13	PROVIDE FIELD-FABRICATED FILTER BANK, MERV 13 FILTRATION (FACTORY OR FIELD FABRICATED), MICROPROCESSOR CONTROLLER WITH 7-DAY SCHEDULING CAPABILITY, REMOTE SENSOR
FC-8	CU-8	CARRIER MMD-HB241BTP-UL	CEILING SPACE	COUNSELING ROOM	DUCTED CONCEALED	0.12	775	5/8"	3/8"	24	19	95	27	47	–	17 20 25	208/1	19.4	71	104	FIELD SUPPLIED MERV 13	PROVIDE FIELD-FABRICATED FILTER BANK, MERV 13 FILTRATION (FACTORY OR FIELD FABRICATED), MICROPROCESSOR CONTROLLER WITH 7-DAY SCHEDULING CAPABILITY, REMOTE SENSOR
FC-9	CU-9	CARRIER MMD-HB241BTP-UL	CEILING SPACE	PROCESSING ROOM	DUCTED CONCEALED	0.12	775	5/8"	3/8"	24	19	95	27	47	–	17 20 25	208/1	19.4	71	130	FIELD SUPPLIED MERV 13	PROVIDE FIELD-FABRICATED FILTER BANK, MERV 13 FILTRATION (FACTORY OR FIELD FABRICATED), MICROPROCESSOR CONTROLLER WITH 7-DAY SCHEDULING CAPABILITY, REMOTE SENSOR
FC-10	CU-10	CARRIER RAV-HB181BTP	CEILING SPACE	BREAK ROOM	DUCTED CONCEALED	0.12	540	1/2"	1/4"	18	14	95	20	47	–	14 15 25	208/1	17.1	71	72	FIELD SUPPLIED MERV 13	PROVIDE FIELD-FABRICATED FILTER BANK, MERV 13 FILTRATION (FACTORY OR FIELD FABRICATED), MICROPROCESSOR CONTROLLER WITH 7-DAY SCHEDULING CAPABILITY, REMOTE SENSOR

SPLIT SYSTEM HEAT PUMP CONDENSING UNIT

MARK	FC SERVICE	MFGR & MODEL	LOCATION	SERVICE	TYPE	CAPACITY				LINE SIZED		ELECTRICAL		OPER. WT. LBS	ACCESSORIES/REMARKS
						COOLING		HEATING		RS	RL	FLA MCA MOCP	V/PH		
						TONS	AMBIENT	MBH	AMBIENT						
CU-1, 2	FC-1, 2	CARRIER MCYMUB060HS2P	ON GRADE	WAITING ROOM	DEDICATED SPLIT SYSTEM HEAT PUMP	5	95	60	47	5/8"	3/8"	25 37.2 40	208/1	260	FURNISH WITH VFD COMPRESSOR, ANTI SHORT CYCLE TIMER, CRANKCASE HEATER, LIQUID-LINE REFRIGERANT DRYER, MICROPROCESSOR-BASED CONTROLS, LOW VOLTAGE CIRCUIT PROTECTION, HIGH AND LOW PRESSURE CONTROL, COMPRESSOR DISCHARGE TEMPERATURE LIMIT
CU-3	FC-3	CARRIER MCYMUB048HS2P	ON GRADE	GROCERY SHOP	DEDICATED SPLIT SYSTEM HEAT PUMP	4	95	54	47	5/8"	3/8"	20 36.6 40	208/1	260	FURNISH WITH VFD COMPRESSOR, ANTI SHORT CYCLE TIMER, CRANKCASE HEATER, LIQUID-LINE REFRIGERANT DRYER, MICROPROCESSOR-BASED CONTROLS, LOW VOLTAGE CIRCUIT PROTECTION, HIGH AND LOW PRESSURE CONTROL, COMPRESSOR DISCHARGE TEMPERATURE LIMIT
CU-4	FC-4	CARRIER MCYMUB036HS2P	ON GRADE	OFFICE SPACE	DEDICATED SPLIT SYSTEM HEAT PUMP	3	95	40	47	5/8"	3/8"	15 36 40	208/1	260	FURNISH WITH VFD COMPRESSOR, ANTI SHORT CYCLE TIMER, CRANKCASE HEATER, LIQUID-LINE REFRIGERANT DRYER, MICROPROCESSOR-BASED CONTROLS, LOW VOLTAGE CIRCUIT PROTECTION, HIGH AND LOW PRESSURE CONTROL, COMPRESSOR DISCHARGE TEMPERATURE LIMIT
CU-5, 6	FC-5, 6	CARRIER MCYMUB036HS2P	ON GRADE	MULTI PURPOSE ROOM	DEDICATED SPLIT SYSTEM HEAT PUMP	3	95	40	47	5/8"	3/8"	15 36 40	208/1	260	FURNISH WITH VFD COMPRESSOR, ANTI SHORT CYCLE TIMER, CRANKCASE HEATER, LIQUID-LINE REFRIGERANT DRYER, MICROPROCESSOR-BASED CONTROLS, LOW VOLTAGE CIRCUIT PROTECTION, HIGH AND LOW PRESSURE CONTROL, COMPRESSOR DISCHARGE TEMPERATURE LIMIT
CU-7	FC-7	CARRIER MMD-UB0361BHP	ON GRADE	BOUTIQUE	DEDICATED SPLIT SYSTEM HEAT PUMP	3	95	40	47	5/8"	3/8"	15 36 40	208/1	260	FURNISH WITH VFD COMPRESSOR, ANTI SHORT CYCLE TIMER, CRANKCASE HEATER, LIQUID-LINE REFRIGERANT DRYER, MICROPROCESSOR-BASED CONTROLS, LOW VOLTAGE CIRCUIT PROTECTION, HIGH AND LOW PRESSURE CONTROL, COMPRESSOR DISCHARGE TEMPERATURE LIMIT
CU-8	FC-8	CARRIER BP241AT2P	ON GRADE	COUNSELING ROOM	DEDICATED SPLIT SYSTEM HEAT PUMP	2	95	24	47	5/8"	3/8"	10 17 25	208/1	130	FURNISH WITH VFD COMPRESSOR, ANTI SHORT CYCLE TIMER, CRANKCASE HEATER, LIQUID-LINE REFRIGERANT DRYER, MICROPROCESSOR-BASED CONTROLS, LOW VOLTAGE CIRCUIT PROTECTION, HIGH AND LOW PRESSURE CONTROL, COMPRESSOR DISCHARGE TEMPERATURE LIMIT
CU-9	FC-9	CARRIER BP241AT2P	ON GRADE	PROCESSING ROOM	DEDICATED SPLIT SYSTEM HEAT PUMP	2	95	24	47	5/8"	3/8"	10 17 25	208/1	130	FURNISH WITH VFD COMPRESSOR, ANTI SHORT CYCLE TIMER, CRANKCASE HEATER, LIQUID-LINE REFRIGERANT DRYER, MICROPROCESSOR-BASED CONTROLS, LOW VOLTAGE CIRCUIT PROTECTION, HIGH AND LOW PRESSURE CONTROL, COMPRESSOR DISCHARGE TEMPERATURE LIMIT
CU-10	FC-10	CARRIER RAV-BP181AT2P	ON GRADE	BREAK ROOM	DEDICATED SPLIT SYSTEM HEAT PUMP	1-1/2	95	20	47	1/2"	1/4"	7.5 14 25	208/1	82	FURNISH WITH VFD COMPRESSOR, ANTI SHORT CYCLE TIMER, CRANKCASE HEATER, LIQUID-LINE REFRIGERANT DRYER, MICROPROCESSOR-BASED CONTROLS, LOW VOLTAGE CIRCUIT PROTECTION, HIGH AND LOW PRESSURE CONTROL, COMPRESSOR DISCHARGE TEMPERATURE LIMIT

EXHAUST FAN

MARK	MFGR AND MODEL	LOCATION	SERVICE	TYPE	FAN				MOTOR			SONES	OPER WT LBS	REMARKS
					AIRFLOW CFM	ESP "WC	BHP (W)	RPM	HP (W)	V/PH	RPM			
EF-1	COOK GC-188	CEILING RESTROOM	107A RESTROOM	CABINET EXHAUST FAN	200	0.5	–	1450	– (95)	115/1	1450	6.0	15	FURNISH WITH BACK DRAFT DAMPER, ANODIZED GRILLE, DISCONNECT
EF-2	COOK GC-148	CEILING RESTROOM	113A RESTROOM	CABINET EXHAUST FAN	100	0.5	–	1075	– (41)	115/1	1075	3.0	12	FURNISH WITH BACK DRAFT DAMPER, ANODIZED GRILLE, DISCONNECT
EF-3	COOK GC-188	CEILING RESTROOM	107B RESTROOM	CABINET EXHAUST FAN	200	0.5	–	1450	– (95)	115/1	1450	6.0	15	FURNISH WITH BACK DRAFT DAMPER, ANODIZED GRILLE, DISCONNECT
EF-4	COOK GC-148	CEILING RESTROOM	113B RESTROOM	CABINET EXHAUST FAN	100	0.5	–	1075	– (41)	115/1	1075	3.0	12	FURNISH WITH BACK DRAFT DAMPER, ANODIZED GRILLE, DISCONNECT

DIFFUSERS, REGISTERS & GRILLES

MARK	MFGR AND MODEL	LOCATION	SERVICE	MOUNTING TYPE	MATERIAL	FRONT BLADES	OPPOSED BLADE DAMPER	REMARKS
CD-1	TITUS MCD	GENERAL	SUPPLY AIR	FLANGED	STEEL	MODULAR	YES	FURNISHED AND INSTALLED BY GENERAL CONTRACTOR; CUSTOM COLOR PER ARCHITECT
RG-1	TITUS 350L	GENERAL	RETURN GRILLE	SURFACE MOUNT	STEEL	–	NO	FURNISH WITH WHITE FINISH FOR FILTER GRILLE SERVICE

DUCT MATERIAL AND GAUGES

1. UNLESS OTHERWISE SPECIFIED, SHEET METAL DUCTS FOR HVAC SHALL BE GALVANIZED STEEL, CONSTRUCTION AND SUPPORT SHALL COMPLY WITH SMACNA, CHAPTER 6 IN THE UNIFORM MECHANICAL CODE AND TITLE 24. ROUND DUCTS SHALL BE SPIRAL SEAM CONSTRUCTION. DUCT DIMENSIONS SHALL BE NET INSIDE DIMENSIONS. LINED DUCTS SHALL BE INCREASED IN SIZE ACCORDINGLY. ALL JOINTS SHALL BE SEALED WITH AN APPROVED SEALANT. DUCT TAPE IS NOT ACCEPTABLE. DIMENSIONS AND GAGE THICKNESS SHALL BE AS FOLLOWS:

RETANGULAR DUCT MAXIMUM WIDTH/LENGTH	GAGE	DUCT DIAMETER
≤ 12"	26	14"
12" < D ≤ 30"	24	23"
30" < D ≤ 54"	22	–
54" < D < 60"	20	–

LEGEND

SYMBOL	DESCRIPTION
	ROUND DUCT RISER UP / DOWN
	SUPPLY / RETURN / EXHAUST DUCT RISER UP
	SUPPLY / RETURN / EXHAUST DUCT RISER DOWN
	CEILING DIFFUSER, RETURN GRILLE, EXHAUST GRILLE
X X	EQUIPMENT CALLOUT
X X–X	DETAIL CALLOUT
X	NOTE CALLOUT
CO2	CARBON DIOXIDE SENSOR
O	OCCUPANCY SENSOR
OV	OVERRIDE SWITCH
RH	RELATIVE HUMIDITY
S	SWITCH
SD	SMOKE DETECTOR
T	TEMPERATURE SENSOR / THERMOSTAT
TS	TIME SWITCH (SPRING WOUND)

LINETYPE

	EXISTING (LIGHT)
	NEW (DARK)
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION

ABBREVIATIONS

(E)	EXISTING
(N)	NEW
(R)	RELOCATED
CFM	CUBIC FEET PER MINUTE
CD	CEILING DIFFUSER / CONDENSATE DRAIN
D	DRAIN
EC	EVAPORATIVE COOLER
EF	EXHAUST FAN
EG	EXHAUST GRILLE
HP	HEAT PUMP
RA	RETURN AIR
RG	RELIEF GRILLE
SA	SUPPLY AIR
SR	SUPPLY REGISTER
TG	TRANSFER GRILLE
UTR	UP THROUGH ROOF
WL	WALL LOUVER

SCOPE OF WORK

1. PROVIDE SPLIT SYSTEM HEAT PUMP TO INCLUDE CU (OUTDOOR UNIT), FC (INDOOR UNIT), AND INTERCONNECTING RS,RL (REFRIGERANT PIPING) AND CONTROL CIRCUITING
2. PROVIDE CABINET EF ASSEMBLY (EF WITH GRILLE, ROOF JACK, ASSOCIATED DUCTWORK), ASSOCIATED SWITCHING FOR RESTROOM VENTILATION
3. PROVIDE RETURN AIR SOUND BOOT AS INDICATED ON FLOOR PLAN
4. PROVIDE RETURN AIR PLENUM SPACE FOR AREA WITH LOWERED CEILING

DRAWING INDEX

M-1.0	EQUIPMENT SCHEDULING, LEGEND, SCOPE OF WORK, DRAWING INDEX
M-1.1	PROJECT NOTES
M-2.0	SITE PLAN
M-2.1	FLOOR PLAN
M-3.0	MECHANICAL DETAIL
M-3.1	AIR BALANCE TABULATION
M-4.0	TITLE 24 – MECHANICAL
M-4.1	TITLE 24 – MECHANICAL CONT.

CONTRACTOR SHALL VERIFY AVAILABILITY OF ALL UTILITIES PRIOR TO INITIATION OF CONSTRUCTION

ADDITIONAL NOTES

1. AFTER COMPLETION OF T ESTING, ADJUSTING, AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES (CAL GREEN 5.410.4.4)
2. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING AND COOLING AND VENTILATION 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 OR DEBRIS WHICH MAY ENTER THE SYSTEM (CAL GREEN 5.504.3)

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Interiors
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Client:

Consultant:

REGISTERED PROFESSIONAL ENGINEER
No. 27267
exp. 12/30/27
MECHANICAL
STATE OF CALIFORNIA

- SCHEDULE
- SCOPE OF WORK
- DRAWING INDEX

M1.0

6) DUCTWORK

a. PROVIDE ROUND DUCTWORK IN SPIRAL SEAM CONSTRUCTION. PROVIDE ROUND ELBOWS SHALL BE 1-1/2 R RADIUS, GORED CONSTRUCTION.

b. ALL GIRTH JOINTS FOR RECTANGULAR DUCTWORK PERMISSIBLE PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS -METAL AND FLEXIBLE.

c. PROVIDE SEALANT AT ALL JOINTS.

d. PROVIDE DUCT CONSTRUCTION FOR TRANSITIONAL HARDWARE IN ENTIRETY OF INSTALLATION UNLESS OTHERWISE AND SPECIFICALLY IDENTIFIED. MEASURES FOR TRANSITIONAL HARDWARE SHALL INCLUDE 45 DEGREE WYE TAPS, SHOE TAPS, TURNING VANES, DUCT TRANSITIONS IN EXCESS OF 30 DEGREES FROM DIRECTION OF AIRFLOW, ET AL. MEASURES SHALL PRECLUDE STRAIGHT TAPS AND ELBOWS WITHOUT TURNING VANES.

e. PROVIDE MVD'S AT ALL DUCT RUNOUTS TO DIFFUSERS AND REGISTERS (SUPPLY, RETURN, EXHAUST. FOR PRIMARY BALANCING OF ASSOCIATED SERVICES, UNLESS OTHERWISE AND SPECIFCALLY IDENTIFIED.

f. PROVIDE OBD'S ON OUTSIDE AIR AND RETURN AIR DUCTWORK AS ARE PROVIDED IN INSTALLATION, FOR PRIMARY BALANCING OF UOUTSIDE AND RETURN AIR SERVICES, UNLESS OTHERWISE AND SPECIFCALLY IDENTIFIED.

g. PROVIDE FLEX DUCT RUN-OUTS OF MAXIMUM 5'IN LENGTH FOR INSTALLATIONS DEVELOPED VIA RIGID ROUND DUCT MAINS AND SUB-MAINS AND RUN-OUTS. ROUND DUCT INSTALLATION MAY BE PROVIDED IN ENTIRETY AS SPECIFICALLY NOTED ON PLANS.

h. ATTACH METALLIC FLEX DUCT TO SHEET METAL RUNOUTS AND TAPS VIA SHEET METAL SCREWS. ATTACH NON-METALLIC FLEX DUCT TO SHEET METAL RUNOUTS AND TAPS VIA STAINLESS STEEL BANDS / CLAMPS DESIGNED SPECIFICALLY FOR INSTALLATION. SECURE EXPOSED INSULATION. PROVIDE METALLIC TAPETO SEAL FLEX DUCT TO RUNOUT AND TAP.

i. DUCT DIMENSIONS ARE NET INSIDE DIMENSIONS. INCREASE LINED DUCTS IN SIZE ACCORDINGLY.

j. SUPPORT FLEX DUCT FLEX DUCT AT MAXIMUM 5'ON CENTER TO PREVENT SAG IN EXCESS OF 1/2"PER FOOT. PROVIDE SUPPORT VIA 26 GAGE STRAPS, MINIMUM 1" WIDE. MAINTAIN CROSS SECTIONAL AREA OF FLEX DUCT. PROVIDE BENDS IN FLEX DUCT EQUIVALENT TOO 1-1/2 R ELBOWS.

k. INSTALL EXPOSED DUCT WORK AS SHOWN ON REFLECTED CEILING AND MECHANICAL PLANS. SUBMIT IN WRITING FOR APPROVAL FROM THE ARCHITECT PRIOR TO MAKING ANY MODIFICATIONS TO EXPOSED DUCT LAYOUTS.

l. INSTALL DUCTWORK SO AS NOT TO DISTURB LIGHTING LAYOUT. COORDIANATE ROUTING PRIOR TO FABRICATION. VERIFY HEIGHTS OF LIGHTING FIXTURES TO ENSURE ADEQUATE CLEARANCE BETWEEN DUCTWORK (INCLUDING ALL FLANGES, SUPPORTING BRACKETS, ETC.) AND FIXTURES.

7) TERMINAL DEVICES

a. INSULATE BACK PLATES OF ALL TERMINAL DEVICES (DIFFUSER, REGISTERS, GRILLES) ASSOCIATED WITH DISTRIBUTION OF CONDITIONED AIR.

b. PAINT INTERNAL ELEMENTS OF TERMINAL DEVICE HARDWARE (DIFFUSER, REGISTERS, GRILLES) VISIBLE FROM OCCUPIED SPACE BLACK.

G. CONTROLS

1) LOCATE ALL THERMOSTATS AT THE SAME LEVEL WITHIN 6 INCHES OF LIGHT SWITCHES, OR IN LOCATIONS AS APPROVED BY THE OWNER'S REPRESENTATIVER PRIOR TO INSTALLATION.

2) PROVIDE CONDUIT AND LOW-VOLTAGE WIRE FOR CONTROLS AS NECESSARY TO ACCOMPLISH INSTALLATION OF HVAC SYSTEMS IDENTIFIED HEREIN.

3) PROVIDE CONTROL WIRING EXPOSED IN SPACE IN CONDUIT.

H. ACCEPTANCE

1) PROVIDE AABC OR NEBB CERTIFIED OR SMACNA AIR BALANCE REPORT.

2) IDENTIFY EQUIPMENT AND HARDWARE VIA ENGRAVED ACRYLIC WHITE ON BLACK ADHESIVE LABELS, MANUFACTURED PIPE LABELS, CIRCUIT TAGS AND COMPLETED PANEL SCHEDULE LINE CARDS, ET AL.

3) REPAIR OR REPLACE ANY DAMAGED CONSTRUCTION ADJACENT TO WORK PROVIDED UNDER THIS SCOPE OF WORK.

4) AT THE COMPLETION OF THE INSTALLATION TEST EQUIPMENT AND HARDWARE FOR AND DEMONSTRATE TO OWNER'S REPRESENTATIVE'S PROPER OPERATION, AND MAKE ADJUSTMENTS AS REQUIRED. DELIVER VALIDATED CERTIFICATES, WARRANTIES AND GUARANTEES FOR NEW EQUIPMENT TO OWNER'S REPRESENTATIVE.

5) MAINTAIN ONE SET OF REPRODUCIBLE DRAWINGS OF "AS-BUILT" CONDITIONS. SUBMIT AT THE COMPLETION OF THE PROJECT SAME TO THE OWNER'S REPRESENTATIVE.

6) TERMS CITED HEREIN ARE REFLECTIVE OF OR IN ADDITION TO REQUIREMENTS FOR COMPLIANCE OF INSTALLATION TO APPLICABLE CODES. SUBMIT TO OWNER'S REPRESENTATIVE FOR APPROVAL OF DEVIATION FROM SAID TERMS.

5) INTEGRITY OF CONSTRUCTION

a. X-RAY SLABS AND WALLS IN LOCATIONS OF PENETRATIONS PRIOR TO SAW CUTTING OR CORING.

b. MAINTAIN AND / OR MODIFY AND / OR PROVIDE NEW STRUCTURAL CONSTRUCTION. ANCHOR AND BRACE EQUIPMENT, HARDWARE, ASSEMBLIES, ELEMENTS OF CONSTRUCTION, ET AL AS REQUIRED BY CODE.

c. PROVIDE INSTALLATIONS PLUMB AND CRAFTSMAN LIKE, TO PROVIDE FOR MAXIMUM CLEARANCES AND MINIMUM IMPOSITION, AND COMMENSURATE WITH EXISTING CONDITIONS AND / OR GRADE OF CONSTRUCTION OF OVERALL JOB.

d. DO NOT BORE OR NOTCH STRUCTURAL ELEMENTS WITHOUT WRITTEN AUTHORIZATION FROM OWNER'S REPRESENTATIVES.

e. PROVIDE EQUIPMENT, HARDWARE, AND TREATMENTS WHERE NEW INSTALLATIONS PENETRATE NEW OR EXISTING RATED ELEMENTS OF CONSTRUCTION.

f. MAINTAIN AND / OR MODIFY AND / OR PROVIDE NEW FIRE SUPPRESSION AND FIRE ALARM SYSTEMS AS REQUIRED BY CODE.

B. EQUIPMENT

1) PROVIDE HVAC EQUIPMENT (TO INCLUDE ASSOCIATED MECHANICAL HARDWARE, SUPPORTS, FASTENERS, BLOCKING AND BACKING, AND CONTROLS AND LOW VOLTAGE CONDUIT AND WIRING) AS REQUIRED FOR COMPLETE INSTALLATION.

2) VERIFY EQUIPMENT DIMENSIONS AND ASSOCIATED SIZES OF PLATFORMS AND CURBS AND MOUNTING REQUIREMENTS FOR SLAB POURS, ROOF FRAMING, AND ASSOCIATED ELEMENTS OF CONSTRUCTION.

3) VERIFY SERVICE REQUIREMENTS OF EQUIPMENT AS SUBMITTED FOR AVAILABLE VOLTAGE AND PHASE, AS PROPOSED FOR INSTALLATION HEREIN. IDENTIFY DISCREPANCY IN WRITING IN COURSE OF SUBMITTAL AND PROCUREMENT PROCESS.

4) INSTALL EQUIPMENT LEVEL AND PLUMB, AND IN A CRAFTSMANSHIP LIKE MANNER.

5) COORDINATE CLEARANCE REQUIREMENTS FOR PERMANENT ELEMENTS OF CONSTRUCTION, AND FOR EQUIPMENT AND HARDWARE AS INSTALLED AS PART OF THE PROJECT.

C. HARDWARE

1) PIPE SUPPORTS

a. COORDINATE HEIGHT OF INSTALLATION OF HARDWARE TO ACCOMMODATE REQUIREMENTS FOR SURROUNDINGS (I.E. WITHIN SPACE AND ON SLAB AND ON ROOF, FOR PASSAGE AND THOROUGHFARE, AND ROOFING WORK, ET AL).

b. SECURE SUPPORTS WITH RIGID CONNECTIONS TO FLOOR AND ROOF CONSTRUCTION. PROVIDE INTERIM BLOCKING AS NECESSARY.

c. PROVIDE INSULATON AND INSERTS AND SADDLES AT PIPE SUPPORTS.

d. PROVIDE INSULATION / INSERTS TO ISOLATE DISSIMILAR METALS.

e. PIPING AND SUPPORTS EXPOSED IN SPACE SHALL BE PAINTED UNLESS OTHERWISE SPECIFIED.

2) DUCT SUPPORTS

a. COORDINATE HEIGHT OF INSTALLATION OF HARDWARE TO ACCOMMODATE REQUIREMENTS FOR SURROUNDINGS (I.E. WITHIN SPACE AND ON SLAB AND ON ROOF).

b. PROVIDE INSULATON AND INSERTS AND SADDLES AT PIPE SUPPORTS.

c. PROVIDE INSULATION / INSERTS TO ISOLATE DISSIMILAR METALS.

d. SUPPORT DUCTWORK EXPOSED IN SPACE VIA THREADED RODS, AND GAGE METAL STRAPS CINCHED TIGHT TO DUCT. INSTALL MEASURES FOR ADDITIONAL SUPPORT (I.E. MANUFACTURED C-CHANNEL, ET AL) TOPSIDE OF DUCTWORK TO MINIMIZE VISIBILITY.

e. PAINT DUCTWORK AND SUPPORTS EXPOSED IN SPACE UNLESS OTHERWISE SPECIFIED.

4) DUCT INSULATION: WRAP AND LINING

a. WRAP: 1-1/2", 3/4# PCF INSULATION, U=0.27 AT 50'F (ASTM C 177), WITH FSK VAPOR BARRIER AND 2" STAPLING FLANGE

b. LINING: 1" FOR INTERIOR INSTALLATION OR 2" FOR EXTERIOR INSTALLATIONS, U=0.24 @ 75'F (ASTM C518), MAXIMUM VELOCITY 6000 FPM. INSTALL WITH 100% ADHESIVE COVERAGE, AND PINS PER SMACNA.

c. INSULATE ALL JOINTS, FITTINGS AND FLANGES.

d. ALL DUCT SHALL BE INSULATED OR LINED UNLESS SPECIFICALLY OTHERWISE IDENTIFIED.

e. ALL PRODUCTS TO HAVE A 25 FLAME / 50 SMOKE DEVELOPED RATING WHEN TESTED IN ACCORDANCE WITH ASTM E 84, NFPA 255, UL723.

f. DUCT INSULATION AND LINING SHALL BE INSTALLED IN COMPLIANCE WITH CHAPTER 6 OF THE UNIFORM MECHANICAL CODE AND TITLE 24.

h. ADVISE OWNER'S REPRESENTATIVE OF ALL CONFLICTS THAT EXIST AT THE LOCATIONS OF ALL OF THE MECHANICAL, TELEPHONE, ELECTRICAL, LIGHTING, PLUMBING AND SPRINKLER EQUIPMENT (TO INCLUDE ALL PIPING, DUCTWORK AND CONDUITS). PROVIDE OWNER'S REPRESENTATIVE WITH ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF THE ABOVE EQUIPMENT.

i. KEEP A PROJECT RECORD SET CONSISTING OF DRAWINGS MARKING ALL CHANGES TO THE ORIGINAL DRAWINGS THROUGHOUT THE COURSE OF THE PROJECT. DELIVER "MARKED-UP" REPRODUCIBLE COPY TO ARCHITECT AT THE COMPLETION OF THE PROJECT.

2) STANDARD OF CARE

a. REVIEW AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY CONDITIONS NOT DOCUMENTED ON THESE DRAWINGS OR OBSERVED TO BE DIFFERENT THAN THOSE SHOWN ON THE DRAWINGS ARE TO BE REPORTED TO THE ARCHITECT PRIOR TO COMMENCING WORK.

b. IF ANY MATERIALS OR PRODUCTS ARE INSTALLED WITHOUT FIRST PROVIDING THE REQUIRED SUBMITTALS OR SHOP DRAWINGS FOR APPROVAL, THOSE MATERIALS OR PRODUCTS ARE SUBJECT TO BEING REMOVED AND CORRECTLY REINSTALLED AT FULL COST TO THE CONTRACTOR.

c. WORK SHALL BE COMMENSURATE TO FINISHED CONDITIONS WITHIN SPACE AND / OR STRUCTURE, AND / OR TO STANDARDS ESTABLISHED IN COMMENSRUATE TERMS.

d. NO WORK, DEFECTIVE IN CONSTRUCTION OR QUALITY OR DEFICIENT IN ANY REQUIREMENTS OF THE DRAWINGS OR NOTES, WILL BE FOUND ACCEPTABLE IN CONSEQUENCE OF THE OWNER'S OR ARCHITECT'S FAILURE TO DISCOVER OR POINT OUT DEFECT AND DEFICIENCIES DURING CONSTRUCTION. DEFECTIVE WORK REVEALED WITHIN THE TIME REQUIRED BY GUARANTEES SHALL BE REPLACED BY WORK CONFORMING WITH THE INTENT OF THE CONTRACT. NO PAYMENT, EITHER PARTIAL OR FINAL, SHALL BE CONSTRUED AS AN ACCEPTANCE OF DEFECTIVE WORK OR IMPROPER MATERIALS.

e. WORK WHICH CREATES NOXIOUS ODORS SHALL BE PERFORMED AT A TIME OF AGREEABLE WITH, AND COORDINATED THROUGH THE OWNER'S REPRESENTATIVE AND PER JURISDICTIONAL/GOVERNMENTAL REQUIREMENTS.

f. PROVIDE AN EMERGENCY POWER SOURCE FOR EXIT AND EXIT WAY ILLUMINATION.

g. KEEP ALL BUILDING AREAS CLEAN AND FREE OF ACCUMULATED DIRT AND DEBRIS. AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ANY SURPLUS MATERIALS, DEBRIS AND EQUIPMENT.

3) COORDINATION OF CONSTRUCTION EFFORT

a. ORDER ALL MATERIALS IN TIME TO MAINTAIN THE APPROVED CONSTRUCTION SCHEDULE.

b. COORDINATE SCHEDULE WITH ALL CONTRACTORS, OWNER'S VENDORS, AND PARTIES INSTALLING ITEMS 'NOT IN CONTRACT AND ITEMS 'PROVIDED BY OTHERS'.

c. THE CONTRACTOR SHALL COORDINATE SCHEDULE FOR ALL SUBCONTRACTORS, OWNER'S VENDORS, AND PARTIES INSTALLING ITEMS 'NOT IN CONTRACT' AND 'ITEMS 'PROVIDED BY OTHERS'.

d. ORDER MATERIALS IN TIME TO MAINTAIN THE APPROVED CONSTRUCTION SCHEDULE.

e. COORDINATE INSTALLATION OF ALL WORK FOR THE LAYOUT AND EXACT LOCATION OF ALL CEILINGS AND WALLS AND PARTITIONS, OPENINGS FOR DOORS AND WINDOWS, LIGHT FIXTURES. ELECTRICAL / TELEPHONE OUTLETS AND LIGHT SWITCHES, HVAC EQUIPMENT AND HARDWARE, PLUMBING EQUIPMENT AND FIXTURES AND HARDWARE AND SERVICES WITH ALL CONTRACTORS.

f. COORDINATE INSTALLATION OF ALL WORK BY THE OWNER'S VENDORS (I.E. SITE / CIVIL / UTILITIES, SIGNAGE, FIRE / LIFE SAFETY, DATA CABLING, SECURITY SYSTEM, AUDIO VISUAL, ET AL) WITH OTHER TRADES.

g. COORDINATE INSTALLATION OF ALL WORK BY SUBCONTRACTORS FOR THE LAYOUT AND EXACT LOCATION OF ALL CEILINGS AND WALLS AND PARTITIONS, OPENINGS FOR DOORS AND WINDOWS, LIGHT FIXTURES. ELECTRICAL / TELEPHONE OUTLETS AND LIGHT SWITCHES, HVAC EQUIPMENT AND HARDWARE, PLUMBING EQUIPMENT AND FIXTURES AND HARDWARE AND SERVICES WITH OWNER'S REPRESENTATIVE IN THE FIELD.

h. COORDINATE INSTALLATION OF ALL WORK BY THE OWNER'S VENDORS (I.E. SITE / CIVIL / UTILITIES, SIGNAGE, FIRE / LIFE SAFETY, DATA CABLING, SECURITY SYSTEM, AUDIO VISUAL, ET AL) WITH OTHER TRADES.

i. COORDINATE THE INSTALLATION OF ITEMS 'NOT IN CONTRACT' AND ITEMS 'PROVIDED BY OTHERS' WITH OTHER TRADES.

4) PLACEMENT OF EQUIPMENT AND HARDWARE

a. ALL DIMENSIONS NOTES "CLR" ARE CLEAR AND ARE NOT ADJUSTABLE WITHOUT APPROVAL FROM ARCHITECT.

b. ALIGN ALL PARTITIONS ADJACENT TO BASE BUILDING COLUMNS OR WALL WITH THE FACE OF FINISHED COLUMN SURFACE, UNLESS NOTED OTHERWISE.

c. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT REVIEW BY ARCHITECT UNLESS NOTED OTHERWISE.

d. ARRANGE AND PLACE ALL FRAMING MEMBERS TO PERMIT INSTALLATION OF PIPE, CONDUITS, AND DUCTWORK WITH MINIMAL CUTTING. ALL NECESSARY CUTTING, BLOCKING, BRACING, SUPPORTING AND REPAIRING SHALL BE APPROVED BY OWNER'S REPRESENTATIVE.

e. ARRANGE CEILING MOUNTED FIXTURES AND HARDWARE PER THE REFLECTED CEILING PLAN PROVIDED AS PART OF THE ARCHITECTURAL PLANS.

f. PROVIDE ACCESS TO AND CLEARANCE AROUND ALL EQUIPMENT AND HARDWARE AS REQUIRED BY CODE AND BY EQUIPMENT MANCUFACTURER.

g. PROVIDE ACCESS PANELS IN LOCATIONS AS REQUIRED FOR HARDWARE REQUIRING ACCESS.

d. PROVIDE INTERIM HARDWARE AS FOLLOWS:

i) BEAM CLAMP.

ii) ANGLE CLIP.

iii) MANUFACTURED PLATE AND COLUMN HARDWARE.

iv) FIELD-FABRICATED PLATE AND COLUMN HARDWARE.

v) MANUFACTURED SLEEPER HARDWARE.

vi) FIELD-FABRICATED SLEEPER HARDWARE.

vii) THREADED RODS.

viii) AND / OR AS DETAILED AND SPECIFIED HEREIN.

2) DUCT SUPPORTS

a. SUPPORT ALL SUPPORT AND BRACING OF METAL AND FLEXIBLE DUCTWORK ACCORDANCE WITH CMC 603.0, AND / OR SMACNA HVAC DUCT CONSTRUCTION STANDARDS -METAL AND FLEXIBLE AND / OR AS DETAILED AND SPECIFIED HEREIN.

b. ATTACH ALL SUPPORT AND BRACING OF PIPING TO STRUCTURE (ROOF OR FLOOR FRAMING OR SLAB) VIA HARDWARE AS FOLLOWS:

i) ANCHOR BOLTS.

ii) LAG BOLT / SCREW.

iii) OR AS OTHERWISE APPROVED IN WRITING.

iv) VERTICAL ATTACHMENT WITH PULL-OUT CAPABILITY IS NOT ALLOWED.

c. SUPPORT SHALL BE PROVIDED VIA HARDWARE AS FOLLOWS:

i) SHEET METAL STRAP.

ii) UNITSTRUT (FOR TRAPEZE SUPPORTS).

iii) AND / OR AS DETAILED AND SPECIFIED HEREIN.

d. PROVIDE INTERIM HARDWARE AS FOLLOWS:

i) BEAM CLAMP.

ii) ANGLE CLIP.

iii) MANUFACTURED PLATE AND COLUMN HARDWARE.

iv) FIELD-FABRICATED PLATE AND COLUMN HARDWARE.

v) MANUFACTURED SLEEPER HARDWARE.

vi) FIELD-FABRICATED SLEEPER HARDWARE.

vii) THREADED RODS.

viii) AND / OR AS DETAILED AND SPECIFIED HEREIN.

3) DUCT INSULATION: WRAP AND LINING

a. WRAP: 1-1/2", 3/4# PCF INSULATION, U=0.27 AT 50'F (ASTM C 177), WITH FSK VAPOR BARRIER AND 2" STAPLING FLANGE.

b. LINING: 1" FOR INTERIOR INSTALLATION OR 2" FOR EXTERIOR INSTALLATIONS, U=0.24 @ 75'F (ASTM C518), MAXIMUM VELOCITY 6000 FPM. INSTALL WITH 100% ADHESIVE COVERAGE, AND PINS PER SMACNA.

c. ALL PRODUCTS TO HAVE A 25 FLAME / 50 SMOKE DEVELOPED RATING WHEN TESTED IN ACCORDANCE WITH ASTM E 84, NFPA 255, UL723.

d. DUCT INSULATION AND LINING SHALL BE INSTALLED IN COMPLIANCE WITH CHAPTER 6 OF THE UNIFORM MECHANICAL CODE AND TITLE 24.

4) DUCTWORK

a. METAL DUCTS: COMPLY WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS -METAL AND FLEXIBLE, TO INCLUDE DUCTS, PLENUMS, METAL FITTINGS.

b. FLEXIBLE DUCTS: SHALL COMPLY WITH UL181 AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS -METAL AND FLEXIBLE.

C. CONTROLS

1) BUILDING AUTOMATION SYSTEM

a. MANUFACTURED BY PELICAN.

3. EXECUTION

A. GENERAL

1) DOCUMENTATION

a. ALL ABBREVIATIONS USED ON DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.

b. DRAWINGS ARE DIAGRAMMATIC IN NATURE, AND DO NOT ACCOUNT FOR EVERY ASPECT OF INSTALLATION AS NECESSARY TO ACCOMMODATE FIELD CONDITIONS. CONTRACTOR SHALL CHECK CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND SCALES FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN FOR A COMPLETE AND OPERABLE AND OPERATIONAL INSTALLATION PRIOR TO PROCEEDING WITH CONSTRUCTION. CONTRACTOR TO REVIEW AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.

c. ANY CONDITIONS NOT DOCUMENTED ON THESE DRAWNGS OR OBSERVED TO BE DIFFERENT THAN THOSE SHOWN ON THE DRAWINGS ARE TO BE REPORTED TO THE ARCHITECT PRIOR TO COMMENCING WORK.

d. DO NOT SCALE DRAWINGS. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION ISSUES, THE CONTRACTOR SHALL CLARIFY WITH OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH WORK IN QUESTION OR RELATED WORK.

e. VERIFY ALL DIMENSIONS SHOWN ON DRAWINGS BY FIELD MEASUREMENTS. BEFORE COMMENCING WORK, CHECK ALL LINES AND LEVELS INDICATED. IMMEDIATELY REPORT DISCREPANCIES TO THE OWNER'S REPRESENTATIVE FOR CORRECTION AND ADJUSTMENT. PROVIDE PROPER FIT AND ATTACHMENT OF ALL PARTITIONS AND CONSTRUCTION MATERIALS.

f. ALL DIMENSIONS NOTED "MINIMUM", "CLEAR", OR "VERIFY" ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY VARIANCES ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE TERMS NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLAN. NOTED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED ONES.

g. ALL PARTITIONS ARE DIMENSIONED FINISH TO FINISH UNLESS NOTED OTHERWISE.

PROJECT NOTES

1. GENERAL

A. ADMINISTRATIVE

1) BASIS OF WORK

a. SCOPE OF WORK SHALL BE AS IDENTIFIED HEREIN THESE DRAWINGS ON SHEET M-1 FOR COMPLETE AND OPERABLE INSTALLATION OF PLUMBING SERVICES.

b. ALL WORK SHALL COMPLY WITH THE FOLLOWING CODES AS ADOPTED AND AS AMENDED BY THE INSPECTING AUTHORITY:

i) CALIFORNIA BUILDING CODE (2022).

ii) CALIFORNIA ELECTRICAL CODE (2022).

iii) CALIFORNIA MECHANICAL CODE (2022).

iv) CALIFORNIA PLUMBING CODE (2022).

v) CALIFORNIA ADMINISTRATIVE CODE - TITLE 24 (2022).

vi) CALIFORNIA FIRE CODE (2022).

vii) AMENDMENTS AS ADOPTED BY LOCAL AUTHORITIES.

c. ALL EQUIPMENT AND HARDWARE SHALL BE PROVIDED FOR LISTED INSTALLATIONS AND APPLICABLE INDUSTRY STANDARDS. A COPY OF THE EVALUATION REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.

d. ALL TERMS CITED HEREIN LEND TO THE MECHANICAL CONTRACTOR, WHETHER ACTING AS A PRIME CONTRACTOR OR AS A SUB CONTRACTOR. HEREINAFTER, THE HVAC CONTRACTOR IS REFERRED TO AS THE CONTRACTOR, AND REQUIREMENTS OF THESE NOTES SHALL DIRECT SAID CONTRACTOR TO ACCOMPLISH TASKS AS CITED HEREIN.

e. ALL EQUIPMENT AND HARDWARE SHALL BE PROVIDED FOR LISTED INSTALLATIONS AND APPLICABLE INDUSTRY STANDARDS. A COPY OF THE EVALUATION REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.

2) CONTRACTURAL OBLIGATIONS

a. PURCHASE AND MAINTAIN CERTIFICATIONS OF INSURANCE WITH RESPECT TO WORKMAN'S TAMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE LIMITS AS REQUIRED BY LAW. INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK.

b. APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS REQUIRED BY ALL APPLICABLE BUILDING CODES AND REGULATORY REQUIREMENTS OF CITY AND STATE. FOR CONTRACTOR'S EXPENSE OF SECURING PERMITS (AS AGREED TO), SUBMIT TO OWNER FOR REIMBURSEMENT OF COST OF PERMITS AND ASSOCIATED FEES AS CHARGED BY CITY (AND / OR ASSOCIATED JURISDICTIONS).

c. PROVIDE A LIST OF SUBCONTRACTORS TO ARCHITECT PRIOR TO THE START OF WORK.

3) BIDDING

a. DURING PRICING PERIOD, CONFIRM IN WRITING THE APPROXIMATE ON-SITE DELIVERY DATES FOR ALL CONSTRUCTION MATERIALS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS AND NOTIFY ARCHITECT IN WRITING OR ANY POSSIBLE CONSTRUCTION DELAYS AFFECTING OCCUPANCY THAT MAY ARISE DUE TO THE UNAVAILABILITY OF SPECIFIED PRODUCTS.

b. UPON SUBMITTAL OF THE FINAL CONSTRUCTION COSTS, SUBMIT A SPECIFIC CONSTRUCTION SCHEDULE INDICATING THE REQUIRED CONSTRUCTION TIME FOR ALL SUBCONTRACTORS AND CONTRACTOR'S WORK.

c. SUBSTITUTIONS MAY BE CONSIDERED AT THE DISCRETION OF THE OWNER AND AS SPECIFIED HEREIN. ALL SUBSTITUTION MUST BE APPROVED IN WRITING BY THE ARCHITECT PRIOR TO ANY ORDER PLACEMENT OR PURCHASE. ANY SUBSTITUTION INSTALLED WITHOUT APPROVAL WILL BE REJECTED AND REPLACED AT CONTRACTOR'S EXPENSE.

d. ACCOUNT FOR ADDITIONAL OFFSETS, FITTINGS, HARDWARE, ET AL AS NECESSARY TO ACCOMMODATE REQUIREMENTS FOR FIELD CONDITIONS AND COORDINATION BETWEEN DISCIPLINES.

e. INCLUDE ALL NECESSARY LABOR, TRANSPORTATION AND EQUIPMENT NECESSARY TO INSTALL SUCH WORK.

f. INCLUDE ALL NECESSARY LABOR, TRANSPORTATION AND EQUIPMENT NECESSARY TO INSTALL SUCH WORK.

g. ACCOUNT FOR ANY AND ALL OVERTIME COSTS.

4) SUBMITTALS

a. SUBMIT SHOP DRAWINGS, AND / OR DESCRIPTIVE DATA AND SAMPLES OF ALL EQUIPMENT, FIXTURES, HARDWARE, FINISHES, MILLWORK, ET AL FOR APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION.

b. ADDITIONAL REQUIREMENTS FOR SUBMITTAL INFORMATION IS PROVIDED HEREINAFTER.

5) RECEIVING AND STORAGE

a. RECEIVE, STORE AND SECURE ALL EQUIPMENT, FIXTURES, HARDWARE, FINISHES, MILLWORK, ET AL ON SITE OR AS OTHERWISE ARRANGED FOR BY CONTRACTOR.

6) GUARANTEE

a. PROVIDE ONE YEAR GUARANTEE TO CONTRACTOR ON PARTS AND LABOR EXCEPT AS OTHERWISE SPECIFIED HEREIN.

2. PRODUCTS

A. EQUIPMENT

1) MANUFACTURER

a. ARCTIC CIRCLE ED630 EVAPORATIVE COOLER UNITS WITH FACTORY CURBS AS IDENTIFIED HEREIN AND ON MECHANICAL PLANS.

B. HARDWARE

1) PIPE SUPPORTS

a. INSTALL ALL SUPPORT AND BRACING OF PIPING IN ACCORDANCE WITH CMC (AND CPC) 313.0, SMACNA SEISMIC BRACING STANDARDS, AND / OR AS DETAILED AND SPECIFIED HEREIN.

b. ATTACH ALL SUPPORT AND BRACING OF PIPING TO STRUCTURE (ROOF OR FLOOR FRAMING OR SLAB) VIA HARDWARE AS FOLLOWS:

i) ANCHOR BOLTS.

ii) LAG BOLT / SCREW.

iii) OR AS OTHERWISE APPROVED IN WRITING.

iv) VERTICAL ATTACHMENT WITH PULL-OUT CAPABILITY IS NOT ALLOWED.

c. PROVIDE SUPPORT VIA HARDWARE AS FOLLOWS:

i) ADJUSTABLE 'J' HANGER.

ii) ADJUSTABLE PIPE SADDLE SUPPORT.

iii) ADJUSTABLE SWIVEL RING.

iv) CLEVIS HANGER.

v) OFFSET PIPE CLAMP.

vi) GAGE STRAP AND HANGER.

vii) MANUFACTURED SUPPORT SYSTEMS.

viii) MANUFACTURED C-CHANNEL (FOR TRAPEZE SUPPORTS).

ix) AND / OR AS DETAILED AND SPECIFIED HEREIN.

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BOA Architecture Interiors Planning
1511 Cota Ave. Long Beach, CA 90813 Tel. 562-912-7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

NO.	DATE	DESCRIPTION

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer: -
Client: -
Date Issue: 01.16.2026
Job Number: XX-XXXX

Client:

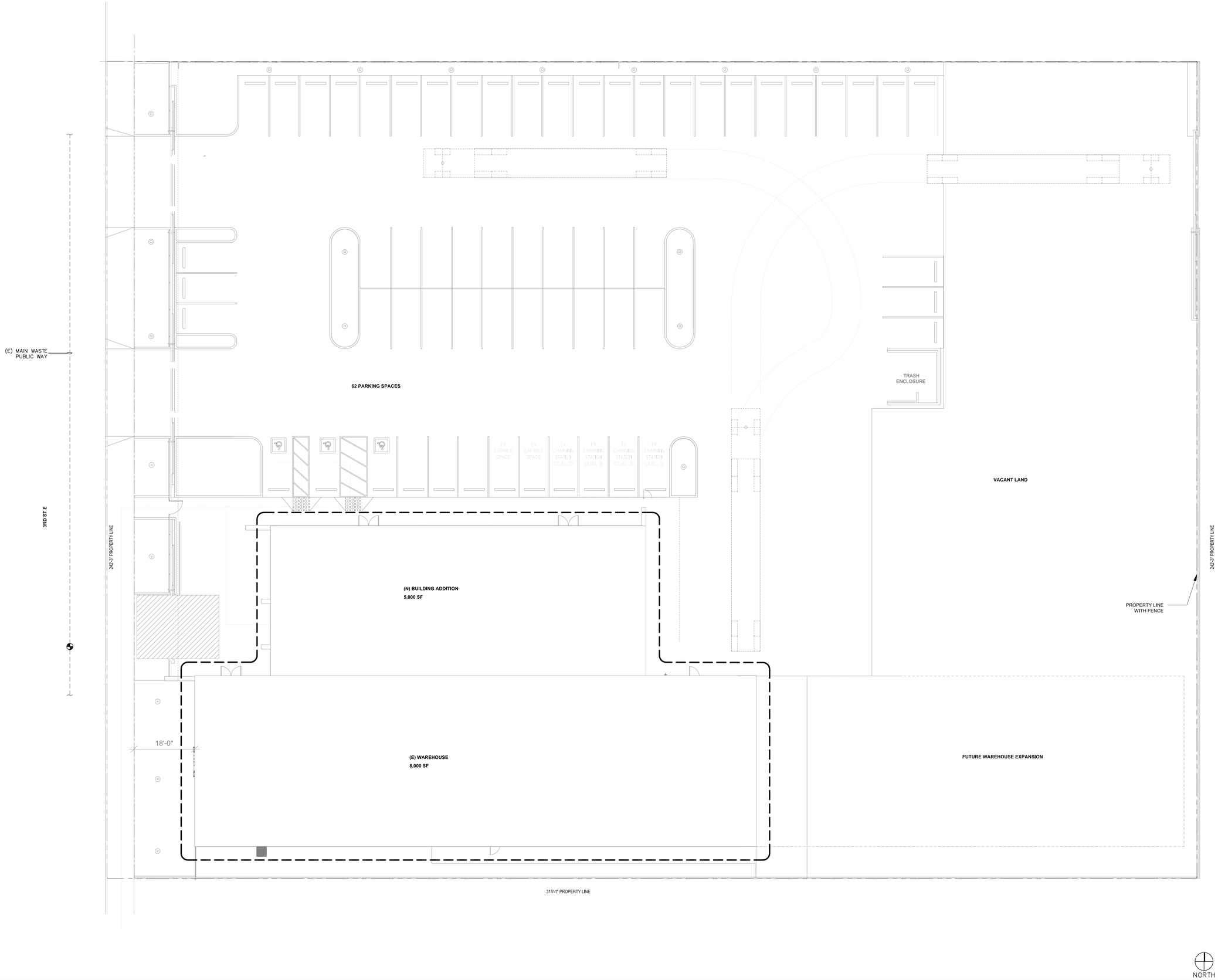
Consultant:

LICENSED PROFESSIONAL ENGINEER
No. M 17267
exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

• PROJECT NOTE
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M1.1

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SITE PLAN

SCALE: 3/32"=1'-0"

BOA
Architecture
Interiors
Planning
1511 Cota Ave. Long Beach, CA 90813 Tel. 562-912-7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

DATE	DESCRIPTION

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer: –
Client: –
Date Issue: 01.16.2026
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Client:

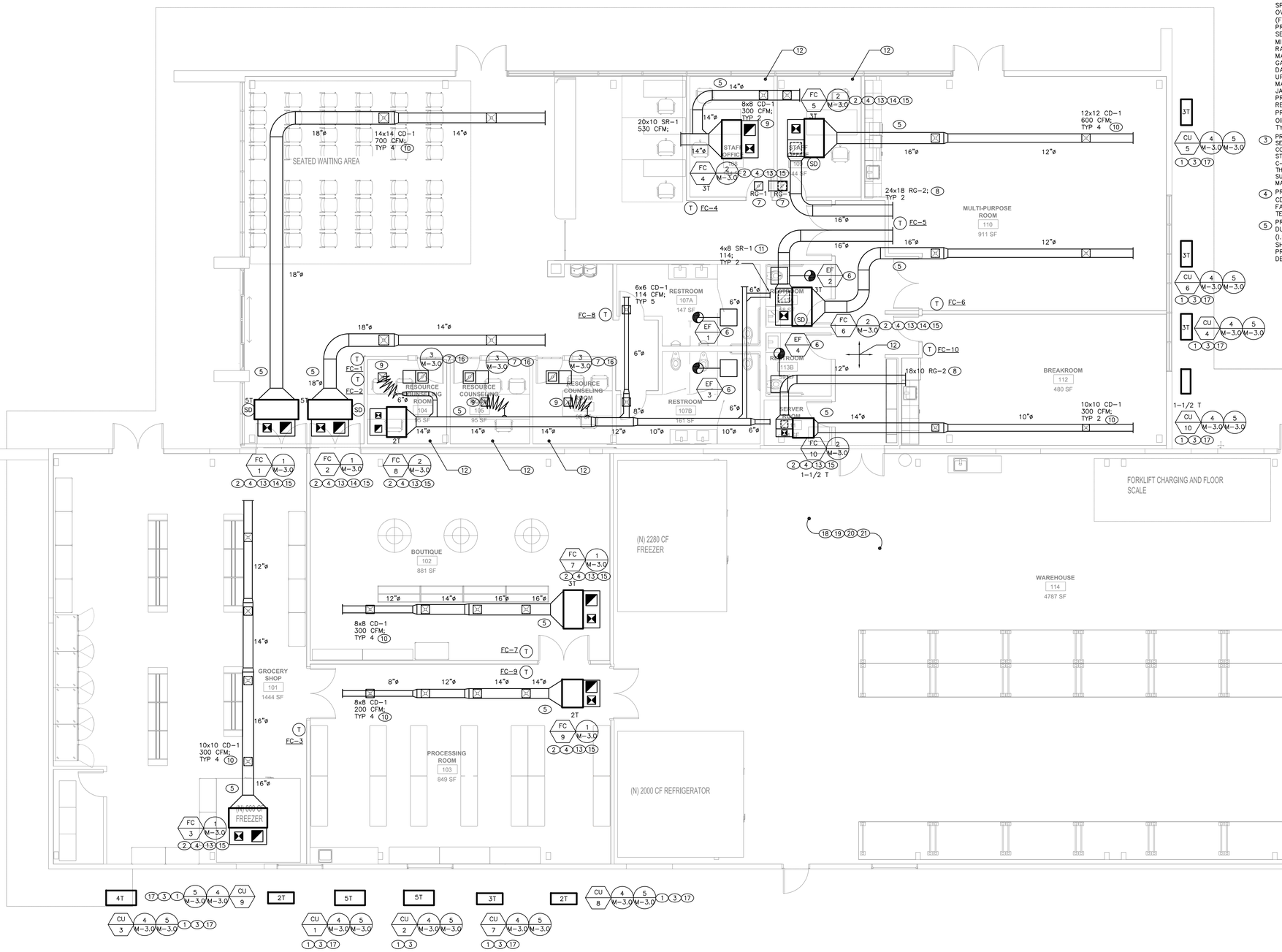
Consultant:

REGISTERED PROFESSIONAL ENGINEER
No. 7267
exp. 06/30/27
MECHANICAL
STATE OF CALIFORNIA

- SITE PLAN
-
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M2.0

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NOTES:

1. PROVIDE CONDENSING UNIT CU SET ON AND EQUIPMENT PAD ON GRADE; SECURE CU TO PAD VIA ANCHOR BOLTS, NEOPRENE ISOLATION PADS; PROVIDE SERVICES TO SPACES AS IDENTIFIED HEREIN IN; TYP CU-1 TO 10
2. PROVIDE HORIZONTAL DUCTED FC IN PLENUM / CEILING SPACE, WITH INTERCONNECTING RS / RL PIPING FROM DEDICATED FC'S; SUPPORT FC'S FROM ROOF FRAMING ELEMENTS WITH NEOPRENE VIBRATION ISOLATION; PROVIDE FLEX DUCT CONNECTIONS AT PLENUM CONNECTIONS TO UNIT; PROVIDE SA SERVICES FROM SA PLENUM OUTBOARD OF FINISHED SPACE THEREIN MANSARD / OVERHANG WITHIN BUILDING ENVELOPE (FOR INTERIOR INSTALLATION); PROVIDE OSA UTR INTAKE, RA SERVICE; PROVIDE OVERSIZED FILTER MIXING BOX DOWNSTREAM OF OSA / RA CONNECTIONS WITH MANUFACTURED FILTER RACKS AND GASKETING AND CLIPS; PROVIDE DAMPER HARDWARE TO CLOSE OSA UPON UNIT OFF; PROVIDE MANUFACTURED CURB MOUNTED ROOF JACK FOR OSA TERMINATION; PROVIDE FINISHED GRILL OVER RETURN AIR OPENING TO SPACE; PROVIDE TRIM AND HARDWARE (TO ONCLUDE SECONDARY DRAIN PAN); TYP FC-1 TO 10
3. PROVIDE INTERCONNECTING RS, RL PIPING SERVICES FROM CU TO BRANCH CONTROLLER; SUPPORT FROM STRUCTURE VIA MANUFACTURED C-CHANNEL (AND ASSOCIATED STRAPS), THREADED RODS, MANUFACTURED SUPPORT HARDWARE; INSULATE PER MANUFACTURER; TYP CU-1 TO 10
4. PROVIDE SA SERVICE MAINS, TAPS TO CD'S WITH OBD'S (LESS MVD'S) FROM FAN COIL UNIT TO POINTS OF TERMINATION
5. PROVIDE TRANSITIONAL HARDWARE ON DUCTWORK AS INDICATED ON PLANS (I.E. CONVERGANCE, 1-1/2R ELBOWS, SHOE TAPS, TURNING VANES, ET AL); PROVIDE TURNING VANES ON ALL 90 DEGREE ELBOWS
6. PROVIDE RESTROOM EXHAUST CABINET FAN, EA SERVICE UTR; EXHAUST FAN TO OPERATE CONTINUOUSLY DURING FACILITY OPERATIONS; TYP EF-1, 2, 3, 4
7. PROVIDE RETURN GRILLE RG-1
8. PROVIDE RETURN GRILLE RG-2
9. PROVIDE SA, RA SERVICES (CD, RG) MOUNTED TO HARD LID CEILINGS
10. PROVIDE SA, RA SERVICES (CD, RG) IN EXPOSED CEILING SPACE
11. PROVIDE SUPPLY REGISTER SR-1
12. RETURN AIR CEILING SPACE
13. PROVIDE MICROPROCESSOR-BASED THERMOSTATS, ASSOCIATED PROPRIETARY CABLE FOR FC WITH REMOTE TEMPERATURE SENSOR; VERIFY LOCATION AND CONFIGURATION WITH OWNER PRIOR TO INSTALLATION; TYP FC-1 TO 10
14. PROVIDE SMOKE DETECTOR TO SHUT DOWN FC UPON DETECTION OF SMOKE; TYP FC-1, 2, 5, 6
15. PROVIDE LOW-VOLTAGE CONDUIT WIRING FOR CONTROL CIRCUITING
16. PROVIDE RA SOUND BOOT FOR RESOURCE COUNSELING ROOM (RM-104, 105, 106)
17. PROVIDE OVERSIZED LOCKING CAGE FOR CONDENSING UNIT ON GRADE; TYP CU-1 TO 10
18. PREPARED OPENINGS IN ROOF, WALLS, CEILING BY GENERAL CONTRACTOR; SOFFITS, REPAIRS TO SPACE, RESTORATION TO ORIGINAL CONDITIONS BY GENERAL CONTRACTOR
19. CONDENSATE DRAIN SERVICE FROM FC INTO GRAVITY DRAIN CONDENSATE SERVICE BY PLUMBING CONTRACTOR
20. LINE VOLTAGE CONTROL CIRCUIT (CONDUIT AND WIRE) BY ELECTRICAL CONTRACTOR
21. ELECTRICAL SERVICES BY ELECTRICAL CONTRACTOR

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PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

DATE	DESCRIPTION

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer:
Client: –
Date Issue: 01.16.2026
Job Number: X-XXXX

Client:

Consultant:

REGISTERED PROFESSIONAL ENGINEER
No. 27267
exp. 12/31/27
MECHANICAL
STATE OF CALIFORNIA

- FLOOR PLAN

M2.1

NORTH

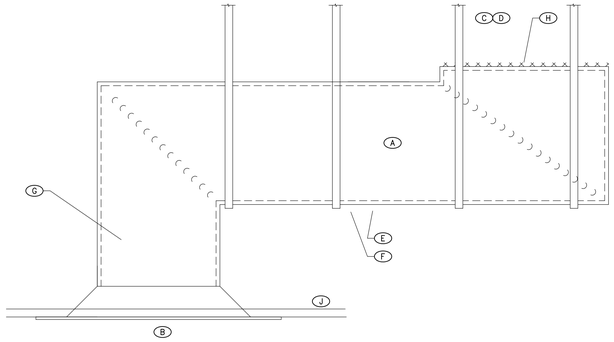
FLOOR PLAN

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

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NOTES:

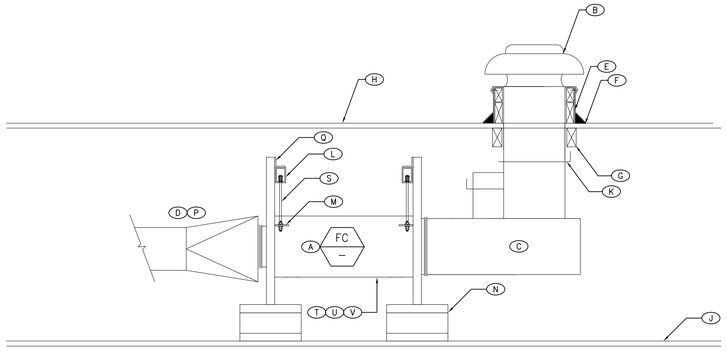
- (A) PROVIDE RA SOUND BOOT AS INDICATED ON DRAWINGS
- (B) PROVIDE RG AS INDICATED ON DRAWINGS
- (C) PROVIDE 1-1/2"X26 GAGE STRAPS, (4) PER SIDE, TOTAL OF (2) SIDES; SECURE HARDWARE VIA (3) #10 SHEET METAL SCREWS
- (D) SECURE STRAP TO STRUCTURE ABOVE VIA MANUFACTURED HARDWARE; MANUFACTURED DECK SYSTEM AND ASSOCIATED HARDWARE BY "EPIC"
- (E) NOT USED
- (F) NOT USED
- (G) PROVIDE 1/2" ANNULAR SPACE
- (H) PROVIDE 1/2" SCREEN OVER OPENING IN CONCEALED CEILING SPACE
- (J) CEILING



RA SOUND BOOT — NO SCALE — 3

NOTES:

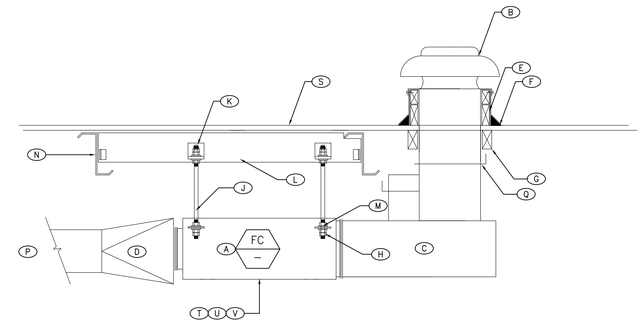
- (A) FAN COIL
- (B) CURB MOUNTED ROOF JACK
- (C) OSA, RA PLENUM; PROVIDE FLEX DUCT CONNECTION
- (D) SA SERVICE DUCT WITH TRANSITIONAL HARDWARE; PROVIDE FLEX DUCT CONNECTION
- (E) FACTORY NAILER
- (F) CANT STRIP
- (G) PROVIDE INTERIM BLOCKING UNDERSIDE OF ROOF DECK AS NECESSARY
- (H) CEILING DECK
- (J) OSA, RA DAMPER
- (K) SPRING VIBRATION ISOLATION
- (L) UNIT MOUNTING HARDWARE
- (M) UNISTRUT BASE SUPPORT
- (N) PROVIDE GAGE METAL STRAPPING TO SUPPORT DUCTWORK; ATTACH TO STRUCTURE ABOVE
- (P) L ANGLE WITH MACHINE BOLT
- (Q) ALL THREAD ROD WITH DOUBLE NUT ASSEMBLIES
- (S) CONDUIT AND WIRE FOR POWER TO FC BY ELECTRICAL CONTRACTOR
- (T) CONDUIT FOR CONTROL CIRCUITING BY ELECTRICAL CONTRACTOR; WIRE BY MECHANICAL CONTRACTOR
- (U) DEVELOP EQUIPMENT ARRANGEMENT DUCT LAYOUT, ANCILLARIES HARDWARE, TRIM PER PLANS



FC MOUNTING IN LOWERED CEILING — NO SCALE — 2

NOTES:

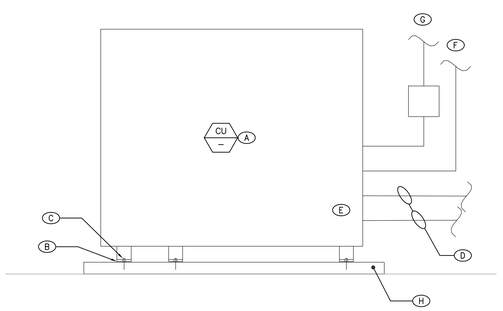
- (A) FAN COIL
- (B) CURB MOUNTED ROOF JACK
- (C) OSA, RA PLENUM; PROVIDE FLEX DUCT CONNECTION
- (D) SA SERVICE DUCT WITH TRANSITIONAL HARDWARE; PROVIDE FLEX DUCT CONNECTION
- (E) FACTORY NAILER
- (F) CANT STRIP
- (G) PROVIDE INTERIM BLOCKING UNDERSIDE OF ROOF DECK AS NECESSARY
- (H) DOUBLE-NUT ASSEMBLY
- (J) THREADED RODS THROUGH UNIT MOUNTING HARDWARE; PROVIDE NEOPRENE VIBRATION ISOLATION AND ANCILLARY INTERIM HARDWARE AS NECESSARY
- (K) UNISTRUT ANGLE WITH 1/2"ø MACHINE BOLT; ALTERNATIVE TO UNISTRUT – 2x2x1/4" ANGLE CLIP WITH MACHINE BOLTS, RODS
- (L) SECURE INTERIM BLOCKING TO Z-GRIT VIA ANGLE CLIPS, (2) #10 SHEET METAL SCREWS METAL SCREWS, EACH END
- (M) UNIT MOUNTING HARDWARE
- (N) (E) Z STEEL GRIT
- (P) PROVIDE GAGE METAL STRAPPING TO SUPPORT DUCTWORK; ATTACH TO STRUCTURE ABOVE
- (Q) OSA, RA SERVICE DAMPER
- (S) (E) ROOF DECK
- (T) CONDUIT AND WIRE FOR POWER TO FC BY ELECTRICAL CONTRACTOR
- (U) CONDUIT FOR CONTROL CIRCUITING BY ELECTRICAL CONTRACTOR; WIRE BY MECHANICAL CONTRACTOR
- (V) DEVELOP EQUIPMENT ARRANGEMENT DUCT LAYOUT, ANCILLARIES HARDWARE, TRIM PER PLANS



FC MOUNTING IN EXPOSED CEILING — NO SCALE — 1

NOTES:

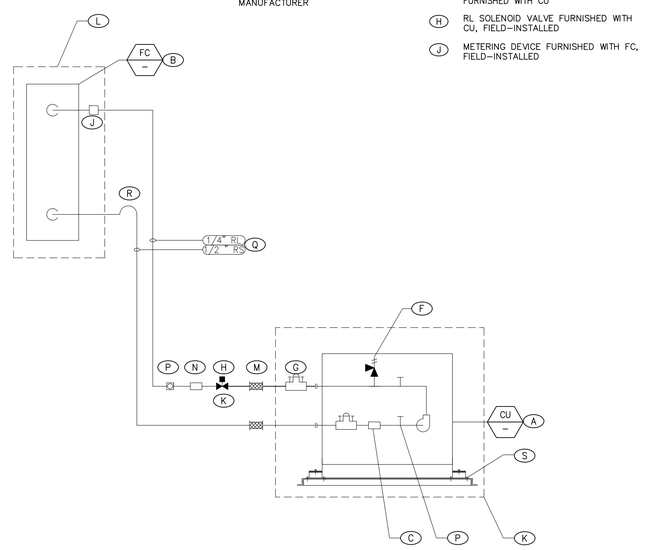
- (A) OUTDOOR CONDENSING UNIT WITH MOUNTING FEET, TYP CU-1
- (B) NEOPRENE ISOLATION PADS WITH RUBBER-IN-SHEAR WASHERS
- (C) SECURE CU TO EQUIPMENT PAD
- (D) RS, RL SERVICES; INSULATE PER MANUFACTURER
- (E) CHARGING VALVES, FILTER / DRYER / SIGHT GLASS, TAPS / PORTS INTEGRAL TO CU
- (F) LOW VOLTAGE CONDUIT AND CONTROL WIRE BY MECHANICAL CONTRACTOR
- (G) LINE-VOLTAGE WIRING AND CONDUIT BY ELECTRICAL CONTRACTOR
- (H) EQUIPMENT PAD
- (J) (E) EXTERIOR GRADE



CU MOUNTING — NO SCALE — 5

NOTES:

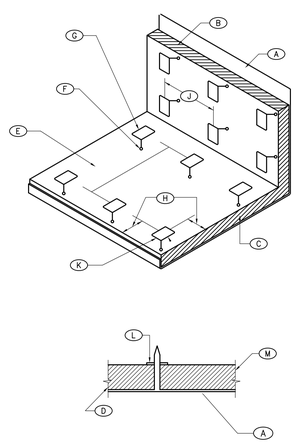
- (A) PROVIDE CU
- (B) PROVIDE FC
- (C) SUCTION ACCUMULATOR FURNISHED INTEGRAL TO CU
- (D) SERVICE PORTS FURNISHED INTEGRAL TO CU
- (E) COMPRESSOR FURNISHED WITH CU
- (F) PRESSURE RELIEF VALVE FURNISHED INTEGRAL TO CU
- (G) CHARGING VALVES WITH SERVICE PORTS FURNISHED WITH CU
- (H) RL SOLENOID VALVE FURNISHED WITH CU, FIELD-INSTALLED
- (J) METERING DEVICE FURNISHED WITH FC, FIELD-INSTALLED
- (K) VERIFY CONFIGURATION OF EQUIPMENT AND HARDWARE AS SHOWN, AND AS PROVIDED BY THE MANUFACTURER
- (L) VERIFY CONFIGURATION OF EQUIPMENT AND HARDWARE AS SHOWN, AND AS PROVIDED BY THE MANUFACTURER
- (M) PROVIDE FLEX CONNECTION AT CU
- (N) PROVIDE REFRIGERANT FILTER/DRIER
- (P) PROVIDE SIGHT GLASS
- (Q) PROVIDE INTERCONNECTING RL, RS LINES FROM CU TO FC; INSULATE LINES AS REQUIRED BY MANUFACTURER
- (R) PROVIDE TRAP AS REQUIRED BY MANUFACTURER; VERIFY REQUIREMENTS WITH MANUFACTURER
- (S) PROVIDE SPRING VIBRATION ISOLATORS; SECURE CU TO SPRING HARDWARE; SECURE SPRING HARDWARE TO PLATFORM SET IN MASTIC



RS, RL PIPING — NO SCALE — 4

NOTES:

- (A) OUTDOOR CONDENSING UNIT WITH MOUNTING FEET, TYP CU-1
- (B) NEOPRENE ISOLATION PADS WITH RUBBER-IN-SHEAR WASHERS
- (C) SECURE CU TO EQUIPMENT PAD
- (D) RS, RL SERVICES; INSULATE PER MANUFACTURER
- (E) CHARGING VALVES, FILTER / DRYER / SIGHT GLASS, TAPS / PORTS INTEGRAL TO CU
- (F) LOW VOLTAGE CONDUIT AND CONTROL WIRE BY MECHANICAL CONTRACTOR
- (G) LINE-VOLTAGE WIRING AND CONDUIT BY ELECTRICAL CONTRACTOR
- (H) EQUIPMENT PAD
- (J) (E) EXTERIOR GRADE
- (K) PROVIDE RA DUCT AS INDICATED ON DRAWINGS
- (L) PROVIDE SOUND LINING AS INDICATED ON DRAWINGS; PROVIDE 2" THICK LINING ON EXTERIOR OF BUILDING; PROVIDE 1" LINING ON INTERIOR OF BUILDING
- (M) PROVIDE COATING ON ALL EXPOSED EDGE OFLINER
- (N) PROVIDE 100% COVERAGE OF ADHESIVE ON DUCT FOR ATTACHMENT OF LINER
- (P) PROVIDE LINER WITH COATED SURFACE AIRSTREAM
- (Q) PROVIDE PINS SPOT WELDED TO DUCTWORK
- (R) PROVIDE SPEED CLIP WASHERS MOUNTED TO PINS
- (S) PROVIDE PINS MORE THAN 3" FROM EDGE OF LINER
- (T) PROVIDE MAXIMUM 16" BETWEEN PINS
- (U) SEE SECTION FOR STUD-WELDED PINS AND WASHERS, AND ADHESIVE REQUIREMENTS
- (V) PROVIDE WASHER CLIPPED DOWN ON PIN OVER LINER
- (W) PROVIDE PIN WELDED TO DUCT (PIN FASTENED TO DUCT WITH ADHESIVE IS NOT ACCEPTABLE)



SOUND LINING INSTALLAION — NO SCALE — 6

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PALMDALE SAVES
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38820 3RD ST E

NO.	DESCRIPTION	BY
1	DETAILS	

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer: –
Client: –
Date Issue: 01.16.2026
Job Number: XX-XXXX

Client:

Consultant:

REGISTERED PROFESSIONAL ENGINEER — No. M 7267 — exp. 12/30/27 — MECHANICAL — STATE OF CALIFORNIA

M3.0

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Zone			FC / CU - 1				FC / CU - 2				FC / CU - 3				FC / CU - 4				FC / CU - 5			
		sf	sa cfm	bd (fixed cfm)	ra	osa cfm	sa cfm	bd (fixed cfm)	ra	osa cfm	sa cfm	bd (fixed cfm)	ra	osa cfm	sa cfm	bd (fixed cfm)	ra	osa cfm	sa cfm	bd (fixed cfm)	ra	osa cfm
	Total		1415		1305	110	1415		1305	110	1235	0	535	700	1130	0	1024	106	1130	0	903	227
	rm																					
Seated Waiting Area - North	N/A	727	1415	0	1305	110																
Seated Waiting Area - South	N/A	727					1415	0	1305	110												
Grocery Shop	101	1444									1235	0	535	700								
Open Office	N/A	411													530		468	62				
STAFF OFFICE	108	144													300	0	278	22				
STAFF OFFICE	109	144													300		278	22				
MULTI-PURPOSE ROOM - NORTH	110	453																	1130	0	903	227

AIR BALANCE TABULATION FC 1 TO 5

Zone			FC / CU - 6				FC / CU - 7				FC / CU - 8				FC / CU - 9				FC / CU - 10				EF-1	EF-2	EF-3	EF-3
		sf	sa cfm	bd (fixed cfm)	ra	osa cfm	sa cfm	bd (fixed cfm)	ra	osa cfm	sa cfm	bd (fixed cfm)	ra	osa cfm	sa cfm	bd (fixed cfm)	ra	osa cfm	sa cfm	bd (fixed cfm)	ra	osa cfm	ECFM	ECFM	ECFM	ECFM
	Total		1130	0	903	227	1130	0	910	220	798	0	694	104	1130	0	1000	130	600	0	528	72	200	100	200	100
	rm																									
MULTI-PURPOSE ROOM - SOUTH	110	453	1130	0	903	227																				
BOUTIQUE	102	881					1130	0	910	220																
RESOURCE COUNSELING ROOM	104	95									114		100	14												
RESOURCE COUNSELING ROOM	105	95									114		100	14												
RESOURCE COUNSELING ROOM	106	95									114		100	14												
RESTROOM	107A	147									114	0	92	22									200			
RESTROOM	107B	161									114		92	22										100		
RESTROOM	113A	58									114		105	9											200	
RESTROOM	113B	59									114		105	9												100
PROCESSING ROOM	103	849													1130	0	1000	130								
BREAKROOM	112	480																	600	0	528	72				

AIR BALANCE TABULATION FC 6 TO 10, EF 1 TO 4

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Planning
BOA
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PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

BY | DESCRIPTION | DATE

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer: -
Client: -
Date Issue: 01.16.2026
Job Number: XX-XXXX

Client:

Consultant:

- AIR BALANCE
- TABULATION

M3.1

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 1 of 17)
Project Address:	38820 3RD STREET E, PALMDALE CA 92550	Date Prepared: 2026-01-12T20:04:03-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Palmdale	04	Total Conditioned Floor Area	7987
02	Climate Zone	14	05	Total Unconditioned Floor Area	4786
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	0

● Grocery ● Office

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 2 of 17)
	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-12T20:04:03-05:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. 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		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4i	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(e)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
[See Table F]		[See Table G]		[See Table H]		[See Table I]		[See Table J]		[See Table K]		[See Table L]		[See Table M]	
Yes	AND		AND		AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
FC / CU - 1,2	2	Single zone	New/ Addition	All Other Occupancies	☐
FC / CU - 3	1	Single zone	New/ Addition	Grocery	☐
FC / CU - 4, 5, 6, 7	4	Single zone	New/ Addition	All Other Occupancies	☐
FC / CU - 8, 9	2	Single zone	New/ Addition	Office	☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 3 of 17)
	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-12T20:04:03-05:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
FC / CU - 10	1	Single zone	New/ Addition	All Other Occupancies	☐

Dry System Equipment Sizing (Includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3iii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available [1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output [2, 3]		Cooling Output [2, 3]			Load Calculations [3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
FC / CU - 1,2	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	53	66	0	48	60	53	48
FC / CU - 3	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	54	54	0	38	48	54	38
FC / CU - 4, 5, 6, 7	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	40	40	0	28.8	36	40	28.8
FC / CU - 8, 9	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	27	27	0	19	24	27	19
FC / CU - 10	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	20	20	0	14	18	20	14

[1] *FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*
[2] *It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*
[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*
[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c)*

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 4 of 17)
	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-12T20:04:03-05:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), CK-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode			Cooling Mode			
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
FC / CU - 1,2	<65,000		HSPF2	7.5	10.1	SEER2	14.3	19.05
FC / CU - 3	<65,000		HSPF2	7.5	10.7	SEER2	14.3	19.45
FC / CU - 4, 5, 6, 7	<65,000		HSPF2	7.5	10.7	SEER2	14.3	20.3
FC / CU - 8, 9	<65,000		HSPF2	7.5	10.5	SEER2	14.3	19.4
FC / CU - 10	<65,000		HSPF2	7.5	10	SEER2	14.3	17.1

G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 5 of 17)
	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-12T20:04:03-05:00

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09	10
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(c) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(i) & 160.3(a)2E	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(k) & 170.2(c)4D	Direct Digital Control (DDC) per 120.2
FC / CU - 1	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows	NA: Single Zone
FC / CU - 2	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows	NA: Single Zone
FC / CU - 3	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows	NA: Single Zone
FC / CU - 4	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows	NA: Single Zone
FC / CU - 5	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows	NA: Single Zone
FC / CU - 6	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows	NA: Single Zone
FC / CU - 7	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows	NA: Single Zone
FC / CU - 8	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows	NA: Single Zone
FC / CU - 9	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows	NA: Single Zone
FC / CU - 10	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows	NA: Single Zone

[1] *FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

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J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3§ 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d124ehpfolmfc/7160.2, 160.3(a)3§10, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04		05			06		07
System Name	FC / CU - 1	System Design OA CFM Airflow[1]	240	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]
							Provided
08	09	10	11	12	13	14	15	16
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4			DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
SEATED WAITING AREA - NORTH	Reception area	727			109.05			DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				109.05	18	Ventilation for this System Complies?	Yes
04		05			06		07	
System Name	FC / CU - 3	System Design OA CFM Airflow[1]	320	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
							Provided	
08	09	10	11	12	13	14	15	16

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Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4			DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
GROCERY SHOP	Retail sales	1280			320			DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				320	18	Ventilation for this System Complies?		Yes
04		05			06		07		
System Name	FC / CU - 4	System Design OA CFM Airflow[1]	180	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		
							Provided		
08	09	30	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4			DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
108 STAFF OFFICE	Office space	144			21.6			DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Not required space type
109 STAFF OFFICE	Office space	144			21.6			DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Not required space type

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OPEN OFFICE SPACE	Office space	400		3	45			DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Not required space type
17	Total Systems Required Min OA CFM				88.2	18	Ventilation for this System Complies?		Yes
04		05			06		07		
System Name	FC / CU - 2	System Design OA CFM Airflow[1]	240	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		
							Provided		
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4			DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
SEATED WAITING AREA - SOUTH	Reception area	727			109.05			DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Alteration
17	Total Systems Required Min OA CFM				109.05	18	Ventilation for this System Complies?		Yes
04		05			06		07		
System Name	FC / CU - 5	System Design OA CFM Airflow[1]	227	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		
							Provided		
08	09	10	11	12	13	14	15	16	

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Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4			DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
110 - MULTI PURPOSE ROOM - NORTH	Assembly- multiuse	454			227			DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				227	18	Ventilation for this System Complies?		Yes
04		05			06		07		
System Name	FC / CU - 6	System Design OA CFM Airflow[1]	227	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		
							Provided		
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4			DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
110 MULTI-PURPOSE ROOM - SOUTH	Assembly- multiuse	454			227			DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				227	18	Ventilation for this System Complies?		Yes
04		05			06		07		
System Name	FC / CU - 7	System Design OA CFM Airflow[1]	226	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		
							Provided		

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08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4			DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
102 - BOUTIQUE	Retail sales	880			220			DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				220	18	Ventilation for this System Complies?		Yes
04		05			06		07		
System Name	FC / CU - 8	System Design OA CFM Airflow[1]	160	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		
							Provided		
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4			DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
104 - RESOURCE COUNSELING ROOM	Office space	95			14.25			DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Not required space type

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J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4			DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
105 - RESOURCE COUNSELING ROOM	Office space	55			14.25			DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Not required space type
106 - RESOURCE COUNSELING ROOM	Office space	55			14.25			DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
107A - RESTROOM	Toilet (private) - cont. exh.	147	3		22.05	75	114	DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Not required space type
107B - RESTROOM	Toilet (private) - cont. exh.	147	3		22.05	75	114	DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Not required space type
113A - RESTROOM	Toilet (private) - cont. exh.	58	1	1	15	25	114	DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Not required space type
113B - RESTROOM	Toilet (private) - cont. exh.	58	1	1	15	25	114	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				116.85	18	Ventilation for this System Complies?		Yes

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J. VENTILATION AND INDOOR AIR QUALITY

04		05			06		07		
System Name	FC / CU - 9	System Design OA CFM Airflow[1]	160	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		
							Provided		
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4			DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
PROCESSING ROOM	General Manufacturing- non chemical	849			127.35			DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				127.35	18	Ventilation for this System Complies?		Yes
04		05			06		07		
System Name	FC / CU - 10	System Design OA CFM Airflow[1]	240	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		
							Provided		
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4			DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
112 - BREAKROOM	Break room	480			240			DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Not required space type

These drawings and accompanying, as instruments of service, are the exclusive property of the Architect and their use and publication shall be restricted to the original site for which they were pr

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J. VENTILATION AND INDOOR AIR QUALITY

17	Total System Required Min OA CFM	240	18	Ventilation for this System Complies?	Yes

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

[2] *Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.*

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

[4] *See Standards Tables 120.1-A and 120.1-B*

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

[6] *120.1(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).*

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.

01	☐	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:	M-1.1	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

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L. DISTRIBUTION (DUCTWORK and PIPING)

			Dwelling Units: Total duct leakage cf duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	---
			Duct leakage testing per CMC Section 603.9.2 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system povides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:		
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A.		
18	No	All ductwork is an extension of an existing duct system		
19	No	Ductwork serving individual dwelling unit		
20		< 25 ft of new or replacement space conditioning ducts installed		
21	R-4.2	Duct Insulation R-value		
22	No	Ductwork Existing To Remain		
23	No	Duct System Connected To Altered Space Conditioning System		

M. COOLING TOWERS

This section does not apply to this project.

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N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title	Systems/Spaces To Be Field Verified
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.	FC / CU - 1; FC / CU - 3; FC / CU - 4; FC / CU - 2; FC / CU - 5; FC / CU - 6; FC / CU - 7; FC / CU - 8; FC / CU - 9; FC / CU - 10
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Singli Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	FC / CU - 1; FC / CU - 2; FC / CU - 3; FC / CU - 4; FC / CU - 5; FC / CU - 6; FC / CU - 7; FC / CU - 8; FC / CU - 9; FC / CU - 10
NRCA-MCH-18-A Energy Management Control Systems	FC / CU - 1; FC / CU - 2; FC / CU - 3; FC / CU - 4; FC / CU - 5; FC / CU - 6; FC / CU - 7; FC / CU - 8; FC / CU - 9; FC / CU - 10

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P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory messures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M-1.0
Cooling Equipment Efficiency per 110.1		M-1.0
Furnace Standby Loss Control per 110.2(d)		N/A
Duct Insulation per 120.4		M-1.1
Heat Pump with Supplmental electric Resistance Heater Controls per 110.2(b)		N/A
The air duct and plenum system is designed per 120.4(a)-(f)		N/A
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2		N/A

Generated Date/Time:
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Documentation Software: Energy Code Ace
Compliance ID: 334650-0126-0003
Report Generated: 2026-01-12 17:04:11

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name: (Palmdale) Tenant Improvement / Addition - Palmdale SAVES		Report Page:	(Page 17 of 17)
Project Address: 38820 3RD STREET E, PALMDALE CA 93550		Date Prepared:	2026-01-12T20:04:03-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Kevin Friedman	Documentation Author Signature:
Company: ENGINEERING — DESIGN — ANALYSIS, INCORPORATED	Signature Date: 2026-01-13
Address: 10061 TALBERT AVENUE SUITE 300	CEA/ HERS Certificate Identification (if applicable):
City/State/Zip: FOUNTAIN VALLEY CA 92708	Phone: (714) 913-8393

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, undr 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 tfe 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: Kevin Friedman	Responsible Designer Signature:
Company: ENGINEERING — DESIGN — ANALYSIS, INCORPORATED	Date Signed: 2026-01-13
Address: 10061 TALBERT AVENUE SUITE 300	License: M-27267
City/State/Zip: FOUNTAIN VALLEY CA 92708	Phone: (714) 913-8393

Generated Date/Time:
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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These drawings and accompanying, as instruments of service, are the exclusive property of the Architect and their use and publication shall be restricted to the original site for which they were prepared. Re-use, reproduction or publication by any method, in whole or part, is prohibited by written permission from the Architect. Title to these plans and specifications shall remain with the Architect without prejudice, and visual with them shall constitute prima facie evedence of acceptance of these restrictions.

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Interiors
Planning
BOA
1511 Cota Ave. Long Beach, CA 90813 Tel. 562-912-7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

NO.	DATE	DESCRIPTION	BY

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer:
Client: –
Date Issue: 01.16.2026
Job Number: XX-XXXX

Client:

Consultant:

REGISTERED PROFESSIONAL ENGINEER
Kevin Friedman
No. M-27267
exp. 07/31/27
MECHANICAL
STATE OF CALIFORNIA

- TITLE 24 –
- MECHANICAL
-

M4.1

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A. O. Smith
Phone: 1-877-552-0010
www.HotWater.com

Pro-Size Selection Report

January 6, 2026

Project Information

Project #:	2288	Prepared for:	City of Palmdale
Project Name:	Palmdale Saves		
Location:	Palmdale	Prepared by:	RT
Engineer:	KMF		
Contractor:			

Selected Product

DEN-30D-4.5

Dura-Power Preferred® Light Duty Commercial Tank-Type



# Heaters:	1	Heater Recovery:	19 USGPH @ 100 °F Rise
Model Number:	DEN-30D-4.5	1st Hour Delivery:	43 USGPH
Heater Storage (ea):	30 USG	3 Hour Average:	27 USGPH
Input (ea):	4.5 kW	Est. Storage Recovery:	97 min
New External Tanks:	0	% Of Demand:	133%
Tank Capacity (ea):	0 USG		
Total Usable Storage:	24 USG		

Model Number	Ht Cube Trailer Load Factor	Gallon Capacity	Recovery Capacity GPH 100 Degree Rise	Input KW	Height	Diameter	Approx. Shipping Weight (lbs.)
DEN-30D-4.5	0.48	30	0	4.5	34	18	95

- Field Convertible to 1 Phase
- 120/277 Volt Wired for Single Phase
- Meet or exceed the thermal efficiency and/or standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1
- Surface Mounted Thermostats
- Tin Plated Copper Sheath Elements
- Dual Element Models Wired for 3 Phase - 208/240/480

Application Loads

Summary

Peak Demand:	20 USGPH	Temperature Rise:	100 °F

Sizing Notes
Hot water loads for pools, hot tubs, or other uses should be considered separately. Restaurant or food service loads should be considered separately if independent water heating equipment is to be used.

Application Settings

Type:	Office Building		
Building Use:	Not Specified	Cold Water: Temp:	40 °F
Peak Demand Period:	3.00 Hours	Stored Water Temp:	140 °F
		Approx. Storage:	25%

The A. O. Smith Pro-Size sizing program is a tool that can be used to estimate water heater requirements for many common applications. Pro-Size is intended to assist in selecting water heaters or boilers that best meet the specific job requirements. It is the sole responsibility of the system designer to select the correct products needed for the specific application. A. O. Smith reserves the right to make changes to Pro-Size without notice.

Page 1 of 2

January 6, 2026

Equipment:	Water Heaters with external storage if required	# Storage Tanks:	Not Specified
Fuel Type:	Electric	Existing Storage:	None
Location:	Indoor		
LoNOx:	Not Required		
UltrasLowNOx:	Not Required		
ASME:	Not Required		
# Heaters:	Not Specified		
Altitude:	Less than 2000 ft		

Load Data

Shower Head Flowrate:	2.5 USGPM
Number of Occupants:	50
Number of Private Lavatories:	6
Number of Public Lavatories:	0
Number of Kitchen Sinks:	1
Number of Pantry Sinks:	0
Number of Shower Heads:	0
Number of Service Sinks:	1
Number of Bradley Washfountains (Full):	0
Number of Bradley Washfountains (Half):	0
Laundry Model 1:	0 @ 0 lbs
Laundry Model 2:	0 @ 0 lbs
Additional Load:	0 USGPH
Design Oversize:	0%

The A. O. Smith Pro-Size sizing program is a tool that can be used to estimate water heater requirements for many common applications. Pro-Size is intended to assist in selecting water heaters or boilers that best meet the specific job requirements. It is the sole responsibility of the system designer to select the correct products needed for the specific application. A. O. Smith reserves the right to make changes to Pro-Size without notice.

Page 2 of 2

WATER HEATER SIZING CALCULATION

UTILITY SCHEDULE

SEWER / STORM DRAIN	FIXTURE UNITS		BUILDING SEWER INCH		LATERAL OR WYE		STREET SEWER INCH		DESIGN SLOPE
	76		4"		–		–		1/4" PER LF
WATER	FIXTURE UNITS	GPM	FUTURE FU	TOTAL FU	TOTAL GPM	METER SIZE INCH	STREET PRESSURE PSI	PRV SETTING	WATER HARDNESS PPM	WATER SIZING PSI/100 FT
	54	53	–	54	53	1.5	55	–	–	7.6/4.0
GAS CFH	HOUSE PRESSURE PSI	MAX LENGTH OF RUN INT/EXT	SPACE HEATING CFH		WATER HEATING CFH		DRYERS CFH		TOTAL CFH	
	8" WC	–	–		–		0		–	

FIXTURE SCHEDULE

MARK	SERVICE	PIPE SIZING				REMARKS
		CW SUPPLY INCH	HW SUPPLY INCH	WASTE SUPPLY INCH	VENT SUPPLY INCH	
AP–1	ACCESS PANEL	–	–	–	–	JL INDUSTRIES TMS WITH SCREW DRIVER – OPERATED STEEL CAM CLOSING MECHANISM
DF–1	DRINKING FOUNTAIN	1/2"	–	2"	2"	ELKAY EZH2O BOTTEL FILLING STATION & VERSATILE BI–LEVEL ADA COOLER NON–FILTERED STAINLESS MODEL EZSTLDDWSSK
ET–1	EXPANSION TANK	–	1/2"	–	–	AMTROL ST–12
FD–1	FLOOR DRAIN	–	–	2"	2"	J.R. SMITH FIG. 2115–A FLOOR DRAIN, WITH DUCO CAST BODY, ROUND, HEEL PROOF ADJUSTABLE STRAINER GRATE WITH COMMON FRONT AND BACK DOUBLE DRAINAGE FLANGE, WEEP HOLES, 2" HUBLESS; FURNISH WITH TRAP PRIMER CONNECTION
FS–1	FLOOR SINK	–	–	2"	1–1/2"	J.R. SMITH FIG. 3300Y, WITH DUCO CAST BODY, RECTANGULAR, HEEL–PROOF STRAINER GRADE; 3" HUBLESS; FURNISH WITH TRAP PRIMER CONNECTION
HB–1	HOSE BIBB	3/4"	–	–	–	ACORN 8151/ INTEGRAL VACUUM BREAKER
KS–1	KITCHEN SINK	1/2"	1/2"	2"	2"	ELKAY LUSTERTONE CLASSIC STAINLESS STEEL 19"X18"X5–1/2" SINGLE BOWL DROP–IN ADA SINK MODEL LRAD191855; CHICAGO FAUCETS MANUAL SINK FAUCETS 50–317XKABCP SINGLE HOLE, VANDAL PROOF
L–1	HANDICAP LAV	1/2"	1/2"	2"	1–1/2"	KOHLER BACHATA BATHROOM SINK K–2609–SU OVAL BASIN, OVERFLOW DRAIN, 20 GAUGE STAINLESS STEEL; AMERICAN STANDARD NEXTGEN SELECTRONIC INTEGRATED PROXIMITY LAVATORY FAUCET SMARTHERM SAFETY SHUT–OFF & ABOVE DECK MIXING
MS–1	MOP SINK	3/4"	3/4"	3"	2"	AMERICAN STANDARD FLORWELL SERVICE SINK ENAMELED CAST IRON; WITH 8344.112 FAUCET WITH TOP BRACE, STOPS, AND VACUUM BREAKER
S–1	SINK	1/2"	1/2"	2"	2"	ELKAY B1C1 18X18 12" BUDGET ONE COMPARTMENT STAINLESS STEEL SINK, 9" BACKSPLASH, 18 GAUGE, GALVANIZED LEGS AND ADJUSTABLE FEET; CHICAGO FAUCET MANUAL SINK FAUCETS 897–RCF
UR–1	URINAL	1/2"	–	3"	2"	AMERICAN STANDARD AFWALL WASHBROOK FLOWISE 0.125 GPF ULTRA HIGH EFFICIENCY PINT URINAL SYSTEM VITREOUS CHINA, BARRIER FREE; 6590.525 0.125 GPF EXPOSED TOP SPUD URINAL SELECTRONIC URINAL FLUSH VALVE
WC–1	HANDICAP WATER CLOSET	1/2"	–	3"	2"	AMERICAN STANDARD AFWALL MILLENNIUM FLOWISE ELONGATED FLUSHOMETER TOILET VITREOUS CHINA LESS EVERCLEAN BARRIER FREE 1.1 GPF
WH–1	WATER HEATER	3/4"	3/4"	–	–	AO SMITH COMMERCIAL ELECTRIC WATER HEATER DEN–30, 30 GALLON TANK TYPE WITH 208V–1PH, 3KW FIRING ELEMENT; FURNISH WITH T&PR, SYSTEM SENTINEL, INTERNAL POWER AND CONTROL CIRCUIT FUSING, MAGNETIC CONTACTORS, 120V CONTROL CIRCUIT TRANSFORMER, IMMERSION THERMOSTAT WITH MANUAL RESET HIGH LIMIT, (2) MAGNETIC ANODE RODS
WHA–1	WATER HAMMER ARRESTOR	3/4"	–	–	–	PRECISION PLUMBING PRODUCTS SWA–1000

SCOPE OF WORK

1. PROVIDE WASTE AND VENT SERVICES FROM POINT OF CONNECTION ON SITE TO POINTS OF USE AT LAUNDRY MACHINES, TOILET FACILITIES, ANCILLARIES, HARDWARE, TRIM
2. PROVIDE WATER SERVICES FROM POINTS OF CONNECTION ON SITE TO POINTS OF USE AT LAUNDRY MACHINES, TOILET FACILITIES, WATER HEATERS, ANCILLARIES, HARDWARE, TRIM
3. PROVIDE GAS SERVICES FROM POINT OF CONNECTION AT GAS METER ON SITE INTO SPACE TO POINTS OF USE AT CLOTHES DRYERS, WATER HEATERS
4. PROVIDE WATER HEATERS
5. PROVIDE UNIT HEATERS

SHEET INDEX

P–1.0	LEGEND, SCOPE OF WORK, SHEET INDEX, UTILITY INFORMATION, SCHEDULES
P–1.1	PROJECT NOTES
P–2.0	SITE PLAN
P–2.1	FLOOR PLAN – WASTE
P–2.2	FLOOR PLAN – WATER
P–3.0	WASTE & VENT ISOMETRICS
P–3.1	HOT & COLD WATER ISOMETRICS
P–4.0	WATER CALCULATION
P–5.0	TITLE 24 – WATER HEATER

UTILITY CONTACT INFORMATION

1. STATIC WATER PRESSURE INFORMATION: PALMDALE WATER DISTRICT 661–947–4111 PER CHRIS VIDAL 55 PSI
2. PUBLIC WORKS DEPARTMENT (ENGINEERING): TBD
3. GAS SERVICE INFORMATION: N / A

LEGEND

SYMBOL	DESCRIPTION
	FLOOR SINK
	FLOOR DRAIN
	CLEANOUT TO GRADE
	FLOOR CLEANOUT
	WALL CLEANOUT
	PRESSURE REDUCING VALVE / GAS REGULATOR
	SHUT–OFF VALVE
	GAS SHUT–OFF VALVE
	SHUT–OFF VALVE (RISER VIEW)
	CHECK VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	PLUG VALVE
	THERMOMETER
	PRESSURE GAUGE
	UNION
	POINT OF CONNECTION
	POINT OF DISCONNECTION

LINETYPE

	EXISTING SERVICE (LIGHT) / EXISTING HARDWARE (NOT FILLED)
	NEW SERVICE (DARK) / NEW HARDWARE (FILLED)
	WASTE BELOW GRADE FLOOR
	WASTE ABOVE GRADE FLOOR
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
	GAS PIPING
D	DRAIN
CD	CONDENSATE

ABBREVIATIONS

(E)	EXISTING
(N)	NEW
(R)	RELOCATED
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFP	BACKFLOW PREVENTER
CW	COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DL	DEVELOPED LENGTH
DN	DOWN
FU	FIXTURE UNIT
G	GAS
GPM	GALLONS PER MINUTE
GR	GAS REGULATOR
MPG	MEDIUM PRESSURE GAS
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
ST	STORAGE TANK
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
SS	SANITARY SEWER
WH	WATER HEATER

CONTRACTOR SHALL VERIFY AVAILABILITY OF ALL UTILITIES PRIOR TO INITIATION OF CONSTRUCTION

Architecture
Interiors
Planning
BOA
1511 Cota Ave. Long Beach, CA 90813 Tel. 562–912–7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

NO.	DATE	DESCRIPTION	BY

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer: –
Client: –
Date Issue: 01.16.2026
Job Number: XX–XXXX

Client:

Consultant:



- LEGEND, INDEX,
- SCOPE OF WORK,
- SCHEDULE

P1.0

PROJECT NOTES

1. GENERAL
   - A. ADMINISTRATIVE
     1) BASIS OF WORK
        - a. SCOPE OF WORK SHALL BE AS IDENTIFIED HEREIN THESE DRAWINGS ON SHEET P-1 FOR COMPLETE AND OPERABLE INSTALLATION OF PLUMBING SERVICES.
        - b. ALL WORK SHALL COMPLY WITH THE FOLLOWING CODES AS ADOPTED AND AS AMENDED BY THE INSPECTING AUTHORITY:
          - i) CALIFORNIA BUILDING CODE (2022).
          - ii) CALIFORNIA ELECTRICAL CODE (2022).
          - iii) CALIFORNIA MECHANICAL CODE (2022).
          - iv) CALIFORNIA PLUMBING CODE (2022).
          - v) CALIFORNIA ADMINISTRATIVE CODE - TITLE 24 (2022).
          - vi) CALIFORNIA FIRE CODE (2022).
          - vii) AMENDMENTS AS ADOPTED BY LOCAL AUTHORITIES.
        - c. ALL EQUIPMENT AND HARDWARE SHALL BE PROVIDED FOR LISTED INSTALLATIONS AND APPLICABLE INDUSTRY STANDARDS. A COPY OF THE EVALUATION REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.
        - d. ALL TERMS CITED HEREIN LEND TO THE PLUMBING CONTRACTOR, WHETHER ACTING AS A PRIME CONTRACTOR OR AS A SUB CONTRACTOR. HEREINAFTER, THE PLUMBING CONTRACTOR IS REFERRED TO AS THE CONTRACTOR, AND REQUIREMENTS OF THESE NOTES SHALL DIRECT SAID CONTRACTOR TO ACCOMPLISH TASKS AS CITED HEREIN.
     2) CONTRACTUAL OBLIGATIONS
        - a. PURCHASE AND MAINTAIN CERTIFICATIONS OF INSURANCE WITH RESPECT TO WORKMAN'S COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE LIMITS AS REQUIRED BY LAW. INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK.
        - b. APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS REQUIRED BY ALL APPLICABLE BUILDING CODES AND REGULATORY REQUIREMENTS OF CITY AND STATE. FOR CONTRACTOR'S EXPENSE OF SECURING PERMITS (AS AGREED TO). SUBMIT TO OWNER FOR REIMBURSEMENT OF COST OF PERMITS AND ASSOCIATED FEES AS CHARGED BY CITY (AND / OR ASSOCIATED JURISDICTIONS).
        - c. PROVIDE A LIST OF SUBCONTRACTORS TO OWNER'S REPRESENTATIVE PRIOR TO THE START OF WORK.
     3) BIDDING
        - a. DURING PRICING PERIOD, CONFIRM IN WRITING THE APPROXIMATE ON-SITE DELIVERY DATES FOR ALL CONSTRUCTION MATERIALS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS AND NOTIFY OWNER'S REPRESENTATIVE IN WRITING OR ANY POSSIBLE CONSTRUCTION DELAYS AFFECTING OCCUPANCY THAT MAY ARISE DUE TO THE UNAVAILABILITY OF SPECIFIED PRODUCTS.
        - b. UPON SUBMITTAL OF THE FINAL CONSTRUCTION COSTS, SUBMIT A SPECIFIC CONSTRUCTION SCHEDULE INDICATING THE REQUIRED CONSTRUCTION TIME FOR ALL SUBCONTRACTORS AND CONTRACTOR'S WORK.
        - c. SUBSTITUTIONS MAY BE CONSIDERED DUE TO THE CONTRACTOR'S DELAY IN ORDERING SPECIFIED LONG LEAD ITEMS. ALL SUBSTITUTION MUST BE APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE PRIOR TO ANY ORDER PLACEMENT OR PURCHASE. ANY SUBSTITUTION INSTALLED WITHOUT APPROVAL WILL BE REJECTED AND REPLACED AT CONTRACTOR'S EXPENSE.
        - d. ACCOUNT FOR ADDITIONAL OFFSETS, FITTINGS, HARDWARE, ET AL AS NECESSARY TO ACCOMMODATE REQUIREMENTS FOR FIELD CONDITIONS AND COORDINATION BETWEEN DISCIPLINES.
        - e. INCLUDE ALL NECESSARY LABOR, TRANSPORTATION AND EQUIPMENT NECESSARY TO INSTALL SUCH WORK.
        - f. ACCOUNT FOR ANY AND ALL OVERTIME COSTS.
     4) SUBMITTALS
        - a. SUBMIT SHOP DRAWINGS, AND / OR DESCRIPTIVE DATA AND SAMPLES OF ALL EQUIPMENT, FIXTURES, HARDWARE, FINISHES, MILLWORK, ET AL FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION AND INSTALLATION.
        - b. ADDITIONAL REQUIREMENTS FOR SUBMITTAL INFORMATION IS PROVIDED HEREINAFTER.
     5) RECEIVING AND STORAGE
        - a. RECEIVE, STORE AND SECURE ALL EQUIPMENT, FIXTURES, HARDWARE, FINISHES, MILLWORK, ET AL ON SITE OR AS OTHERWISE ARRANGED FOR BY CONTRACTOR.
     6) GUARANTEE
        - a. PROVIDE ONE YEAR GUARANTEE TO CONTRACTOR ON PARTS AND LABOR EXCEPT AS OTHERWISE SPECIFIED HEREIN.
2. PRODUCTS
   - A. EQUIPMENT:
   - B. FIXTURES: AS SCHEDULED HEREIN AND ON PLUMBING PLANS.
   - C. HARDWARE
     1) PIPE SUPPORTS
        - a. INSTALL ALL SUPPORT AND BRACING OF PIPING IN ACCORDANCE WITH CMC (AND CPC) 313.0, SMACNA SEISMIC BRACING STANDARDS, AND / OR AS DETAILED AND SPECIFIED HEREIN.
        - b. ATTACH ALL SUPPORT AND BRACING OF PIPING TO STRUCTURE (ROOF OR FLOOR FRAMING OR SLAB) VIA HARDWARE AS FOLLOWS:
          - i) ANCHOR BOLTS.
          - ii) LAG BOLT / SCREW.
          - iii) OR AS OTHERWISE APPROVED IN WRITING.
          - iv) VERTICAL ATTACHMENT WITH PULL-OUT CAPABILITY IS NOT ALLOWED.
        - c. PROVIDE SUPPORT VIA HARDWARE AS FOLLOWS:
          - i) ADJUSTABLE 'J' HANGER.
          - ii) ADJUSTABLE PIPE SADDLE SUPPORT.
          - iii) ADJUSTABLE SWIVEL RING.
          - iv) CLEVIS HANGER.
          - v) OFFSET PIPE CLAMP.
          - vi) GAGE STRAP AND HANGER.
          - vii) MANUFACTURED SUPPORT SYSTEMS.
          - viii) MANUFACTURED C-CHANNEL (FOR TRAPEZE SUPPORTS).
          - ix) AND / OR AS DETAILED AND SPECIFIED HEREIN.
        - d. INTERIM HARDWARE SHALL BE PROVIDED VIA HARDWARE AS FOLLOWS:
          - i) BEAM CLAMP.
          - ii) ANGLE CLIP.
          - iii) MANUFACTURED PLATE AND COLUMN HARDWARE.
          - iv) FIELD-FABRICATED PLATE AND COLUMN HARDWARE.
          - v) MANUFACTURED SLEEPER HARDWARE.
          - vi) FIELD-FABRICATED SLEEPER HARDWARE.
          - vii) THREADED RODS.
          - viii) AND / OR AS DETAILED AND SPECIFIED HEREIN.
     2) PIPE INSULATION
        - a. DOMESTIC HOT WATER AND HOT WATER RETURN RECIRCULATION PIPING FIBERGLASS WITH ALL-SERVICE JACKET, SELF-SEALING CAP. 1"THICK FOR SIZES UP TO 1-1/2"; 2"THICK FOR SIZES 2"AND LARGER. MINIMUM THERMAL RESISTANCE SHALL BE R=4.0 TO 4.6 PER INCH
        - b. PROVIDE ARMSTRONG 'ARMAFLEX'OR EQUAL INSULATION AND DRAIN PIPING BELOW HANDICAP LAVATORIES AND SINKS; 25 SMOKE RATING, 50 FLAME SPREAD RATING.
        - c. CONDENSATE DRAIN
          - i) CLOSED CELL RATED WITH SELF-SEALING LAP, FOR INDOOR INSTALLATION; 25 SMOKE RATING, 50 FLAME SPREAD RATING. HARDWARE IN EXTERIOR LOCATION OUT FROM UNDER COVER SHALL BE RATED ACCORDINGLY
        - d. EXTERIOR, AMBIENT UNDER COVER: EMBOSSED ALUMINUM JACKET, 0.016"THICK WITH MANUFACTURED BANDS, PVC COVERS FOR FITTINGS AND APPURTENANCES
     3) PIPING
        - a. WASTE & VENT, DRAIN (INSIDE, OUTSIDE BUILDING):
          - i) ABOVE GROUND, BELOW GROUND WASTE & VENT PIPING: SERVICE WEIGHT HUBLESS CAST IRON PIPE, ASTM A 74 OR CISPI 301 AND FITTINGS WITH NEOPRENE GASKETS AND CAST IRON CLAMPS AND STAINLESS STEEL NUTS, BOLTS AND WASHERS.
          - ii) ALTERNATIVE MATERIALS: ABOVE AND BELOW GROUND SCHEDULE 40 ABS, WITH SCHEDULE 40 FITTINGS, & SOLVENT WELDS.
          - iii) PUMPED DISCHARGE: SCHEDULE 40 GALVANIZED STEEL WITH MALLEABLE IRON FITTINGS, ASNI B 16.3
          - iv) DRAIN PIPING: COPPER TYPE "M". WROT COPPER FITTINGS. 95/5 TIN / ANTIMONY SOLDER.
        - b. WATER PIPING:
          - i) BELOW GRADE, INBOARD OF BUILDING: COPPER TYPE 'K', WITH SILVER SOLDER, WROT COPPER JOINTS, ASTM B 88
          - ii) INSIDE BUILDING, BELOW GRADE OUTBOARD OF BUILDING: COPPER TYPE 'L', WITH 95/5 TIN/ANTIMONY SOLDER AT VALVES, SILVER SOLDER AT JOINTS, WROT COPPER FITTINGS, ASTM B 88
        - c. GAS PIPING:
          - i) HOUSE PRESSURE: SCHEDULE 40 BLACK STEEL WITH SCREWED MALLEABLE IRON FITTINGS, ASNI B 16.3.
          - ii) FLEX CONNECTION: UL LISTED WITH SHUT-OOFF AT CONNECTION TO RIGID SERVICE.
3. EXECUTION
   - A. GENERAL
     1) DOCUMENTATION
        - a. ALL ABBREVIATIONS USED ON DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, OWNER'S REPRESENTATIVE SHALL BE NOTIFIED FOR CLARIFICATION.
        - b. DRAWINGS ARE DIAGRAMMATIC IN NATURE, AND DO NOT ACCOUNT FOR EVERY ASPECT OF INSTALLATION AS NECESSARY TO ACCOMMODATE FIELD CONDITIONS. CONTRACTOR SHALL CHECK CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND SCALES FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN FOR A COMPLETE AND OPERABLE AND OPERATIONAL INSTALLATION PRIOR TO PROCEEDING WITH CONSTRUCTION. CONTRACTOR TO REVIEW AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
        - c. ANY CONDITIONS NOT DOCUMENTED ON THESE DRAWINGS OR OBSERVED TO BE DIFFERENT THAN THOSE SHOWN ON THE DRAWINGS ARE TO BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
        - d. DO NOT SCALE DRAWINGS. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION ISSUES, CLARIFY WITH OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH WORK IN QUESTION OR RELATED WORK.
        - e. VERIFY ALL DIMENSIONS SHOWN ON DRAWINGS BY FIELD MEASUREMENTS. BEFORE COMMENCING WORK, CONTRACTOR SHALL CHECK ALL LINES AND LEVELS INDICATED. IMMEDIATELY REPORT DISCREPANCIES TO THE OWNER'S REPRESENTATIVE FOR CORRECTION AND ADJUSTMENT. PROVIDE PROPER FIT AND ATTACHMENT OF ALL PARTITIONS AND CONSTRUCTION MATERIALS.
        - f. ALL DIMENSIONS NOTED "MINIMUM", "CLEAR", OR "VERIFY" ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY VARIANCES ARE TO BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY FOR RESOLUTION. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE TERMS NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLAN. NOTED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED ONES.
        - g. ALL PARTITIONS ARE DIMENSIONED FINISH TO FINISH UNLESS NOTED OTHERWISE.
        - h. ADVISE OWNER'S REPRESENTATIVE OF ALL CONFLICTS THAT EXIST AT THE LOCATIONS OF ALL OF THE MECHANICAL, TELEPHONE, ELECTRICAL, LIGHTING, PLUMBING AND SPRINKLER EQUIPMENT (TO INCLUDE ALL PIPING, DUCTWORK AND CONDUITS). PROVIDE OWNER'S REPRESENTATIVE WITH ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF THE ABOVE EQUIPMENT.
        - i. KEEP A PROJECT RECORD SET CONSISTING OF DRAWINGS MARKING ALL CHANGES TO THE ORIGINAL DRAWINGS THROUGHOUT THE COURSE OF THE PROJECT. DELIVER "MARKED-UP" REPRODUCIBLE COPY TO OWNER'S REPRESENTATIVE AT THE COMPLETION OF THE PROJECT.
     2) STANDARD OF CARE
        - a. REVIEW AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY CONDITIONS NOT DOCUMENTED ON THESE DRAWINGS OR OBSERVED TO BE DIFFERENT THAN THOSE SHOWN ON THE DRAWINGS ARE TO BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK
        - b. IF ANY MATERIALS OR PRODUCTS ARE INSTALLED WITHOUT FIRST PROVIDING THE REQUIRED SUBMITTALS OR SHOP DRAWINGS FOR APPROVAL, THOSE MATERIALS OR PRODUCTS ARE SUBJECT TO BEING REMOVED AND CORRECTLY REINSTALLED AT FULL COST TO THE CONTRACTOR.
        - c. INSTALL WORK COMMENSURATE TO FINISHED CONDITIONS WITHIN SPACE AND / OR STRUCTURE, AND / OR TO STANDARDS ESTABLISHED IN COMMENSURATE TERMS.
        - d. NO WORK, DEFECTIVE IN CONSTRUCTION OR QUALITY OR DEFICIENT IN ANY REQUIREMENTS OF THE DRAWINGS OR NOTES, WILL BE FOUND ACCEPTABLE IN CONSEQUENCE OF THE OWNER'S OR OWNER'S REPRESENTATIVE'S FAILURE TO DISCOVER OR POINT OUT DEFECT AND DEFICIENCIES DURING CONSTRUCTION. DEFECTIVE WORK REVEALED WITHIN THE TIME REQUIRED BY GUARANTEES SHALL BE REPLACED BY WORK CONFORMING WITH THE INTENT OF THE CONTRACT. NO PAYMENT, EITHER PARTIAL OR FINAL, SHALL BE CONSTRUED AS AN ACCEPTANCE OF DEFECTIVE WORK OR IMPROPER MATERIALS.
        - e. WORK WHICH CREATES NOXIOUS ODORS SHALL BE PERFORMED AT A TIME OF AGREEABLE WITH, AND COORDINATED THROUGH THE OWNER'S REPRESENTATIVE AND PER JURISDICTIONAL/GOVERNMENTAL REQUIREMENTS.
        - f. PROVIDE AN EMERGENCY POWER SOURCE FOR EXIT AND EXIT WAY ILLUMINATION.
        - g. KEEP ALL BUILDING AREAS CLEAN AND FREE OF ACCUMULATED DIRT AND DEBRIS. AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ANY SURPLUS MATERIALS, DEBRIS AND EQUIPMENT.
     3) COORDINATION OF CONSTRUCTION EFFORT
        - a. ORDER ALL MATERIALS IN TIME TO MAINTAIN THE APPROVED CONSTRUCTION SCHEDULE.
        - b. COORDINATE SCHEDULE WITH ALL CONTRACTORS, OWNER'S VENDORS, AND PARTIES INSTALLING ITEMS 'NOT IN CONTRACT" AND "ITEMS PROVIDED BY OTHERS':
        - c. THE CONTRACTOR SHALL COORDINATE SCHEDULE FOR ALL SUBCONTRACTORS, OWNER'S VENDORS, AND PARTIES INSTALLING ITEMS 'NOT IN CONTRACT' AND 'ITEMS 'PROVIDED BY OTHERS':
        - d. THE CONTRACTOR SHALL ORDER MATERIALS IN TIME TO MAINTAIN THE APPROVED CONSTRUCTION SCHEDULE.
        - e. COORDINATE INSTALLATION OF ALL WORK FOR THE LAYOUT AND EXACT LOCATION OF ALL CEILINGS AND WALLS AND PARTITIONS, OPENINGS FOR DOORS AND WINDOWS, LIGHT FIXTURES. ELECTRICAL / TELEPHONE OUTLETS AND LIGHT SWITCHES, HVAC EQUIPMENT AND HARDWARE, PLUMBING EQUIPMENT AND FIXTURES AND HARDWARE AND SERVICES WITH ALL CONTRACTORS.
        - f. COORDINATE INSTALLATION OF ALL WORK BY THE OWNER'S VENDORS (I.E. SITE / CIVIL / UTILITIES, SIGNAGE, FIRE / LIFE SAFETY, DATA CABLING, SECURITY SYSTEM, AUDIO VISUAL, ET AL) WITH OTHER TRADES.
        - g. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL WORK BY SUBCONTRACTORS FOR THE LAYOUT AND EXACT LOCATION OF ALL CEILINGS AND WALLS AND PARTITIONS, OPENINGS FOR DOORS AND WINDOWS, LIGHT FIXTURES. ELECTRICAL / TELEPHONE OUTLETS AND LIGHT SWITCHES, HVAC EQUIPMENT AND HARDWARE, PLUMBING EQUIPMENT AND FIXTURES AND HARDWARE AND SERVICES WITH OWNER'S REPRESENTATIVE IN THE FIELD.
        - h. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL WORK BY SUBCONTRACTORS FOR THE LAYOUT AND EXACT LOCATION OF ALL CEILINGS AND WALLS AND PARTITIONS, OPENINGS FOR DOORS AND WINDOWS, LIGHT FIXTURES. ELECTRICAL / TELEPHONE OUTLETS AND LIGHT SWITCHES, HVAC EQUIPMENT AND HARDWARE, PLUMBING EQUIPMENT AND FIXTURES AND HARDWARE AND SERVICES WITH OWNER'S REPRESENTATIVE IN THE FIELD.
        - i. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ITEMS 'NOT IN CONTRACT' AND ITEMS 'PROVIDED BY OTHERS' WITH OTHER TRADES.
     4) PLACEMENT OF EQUIPMENT AND HARDWARE
        - a. ALL DIMENSIONS NOTES "CLR" ARE CLEAR AND ARE NOT ADJUSTABLE WITHOUT APPROVAL FROM OWNER'S REPRESENTATIVE.
        - b. ALIGN PARTITIONS AE ADJACENT TO BASE BUILDING COLUMNS OR WALL WITH THE FACE OF FINISHED COLUMN SURFACE, UNLESS NOTED OTHERWISE.
        - c. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT REVIEW BY OWNER'S REPRESENTATIVE UNLESS NOTED OTHERWISE.
        - d. ARRANGE AND PLACE FRAMING MEMBERS TO PERMIT INSTALLATION OF PIPE, CONDUITS, AND DUCTWORK WITH MINIMAL CUTTING. ALL NECESSARY CUTTING, BLOCKING, BRACING, SUPPORTING AND REPAIRING SHALL BE APPROVED BY OWNER'S REPRESENTATIVE.
        - e. ARRANGE CEILING MOUNTED FIXTURES AND HARDWARE PER THE REFLECTED CEILING PLAN PROVIDED AS PART OF THE ARCHITECTURAL PLANS.
        - f. THE CONTRACTOR SHALL PROVIDE ACCESS TO AND CLEARANCE AROUND ALL EQUIPMENT AND HARDWARE AS REQUIRED BY CODE AND BY EQUIPMENT MANUFACTURER.
        - g. PROVIDE ACCESS PANELS IN LOCATIONS AS REQUIRED FOR HARDWARE REQUIRING ACCESS.
     5) INTEGRITY OF CONSTRUCTION
        - a. X-RAY SLABS AND WALLS IN LOCATIONS OF PENETRATIONS PRIOR TO SAW CUTTING OR CORING.
        - b. MAINTAIN AND / OR MODIFY AND / OR PROVIDE NEW STRUCTURAL CONSTRUCTION. ANCHOR AND BRACE EQUIPMENT, HARDWARE, ASSEMBLIES , ELEMENTS OF CONSTRUCTION, ET AL AS REQUIRED BY CODE.
        - c. INSTALLATIONS SHALL BE PLUMB AND CRAFTSMAN LIKE, TO PROVIDE FOR MAXIMUM CLEARANCES AND MINIMUM IMPOSITION, AND COMMENSURATE WITH EXISTING CONDITIONS AND / OR GRADE OF CONSTRUCTION OF OVERALL JOB.
        - d. DO NOT BORE OR NOTCH STRUCTURAL ELEMENTS WITHOUT WRITTEN AUTHORIZATION FROM OWNER'S REPRESENTATIVE.
        - e. PROVIDE EQUIPMENT, HARDWARE, AND TREATMENTS WHERE NEW INSTALLATIONS PENETRATE NEW OR EXISTING RATED ELEMENTS OF CONSTRUCTION.
        - f. MAINTAIN AND / OR MODIFY AND / OR PROVIDE NEW FIRE SUPPRESSION AND FIRE ALARM SYSTEMS AS REQUIRED BY CODE.
   - B. HARDWARE
     1) GENERAL
        - a. VERIFY AVAILABILITY OF UTILITIES PRIOR TO INITIATION OF CONSTRUCTION, TO INCLUDE ALL LOCATION AND INVERT ELEVATIONS.
        - b. COORDINATE REQUIREMENTS FOR SLEEVES AND INSERTS AND CORING WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE AND STRUCTURAL ENGINEER.
        - c. PROVIDE ACCESS PANELS FOR VALVES AND HARDWARE AND TRIM REQUIRING ACCESS FOR INSPECTION AND SERVICE. COORDINATE LOCATIONS OF ALL HARDWARE AND ASSOCIATED ACCESS PANELS PRIOR TO INSTALLATION.
        - d. PROVIDE ESCUTCHEONS AT PENETRATIONS OF ALL WALLS IN EXPOSED LOCATIONS, AND IN CONCEALED LOCATIONS WITHIN CABINETRY, ET AL.
     2) PIPE SUPPORTS
        - a. COORDINATE HEIGHT OF INSTALLATION OF HARDWARE TO ACCOMMODATE REQUIREMENTS FOR SURROUNDINGS (I.E. WITHIN SPACE AND ON SLAB AND ON ROOF, FOR PASSAGE AND THOROUGHFARE, AND ROOFING WORK, ET AL).
        - b. SECURE SUPPORTS WITH RIGID CONNECTIONS TO FLOOR AND ROOF CONSTRUCTION. PROVIDE INTERIM BLOCKING AS NECESSARY.
        - c. PROVIDE INSULATION AND INSERTS AND SADDLES AT PIPE SUPPORTS.
        - d. PROVIDE INSULATION / INSERTS TO ISOLATE DISSIMILAR METALS.
        - e. PIPING AND SUPPORTS EXPOSED IN SPACE SHALL BE PAINTED UNLESS OTHERWISE SPECIFIED.
     3) PIPE INSULATION
        - a. PROVIDE INSULATION ON DOMESTIC HOT WATER SERVICES
        - b. PROVIDE COVERS ON TRAP SERVICES ON LAVS
        - c. PROVIDE INSULATION ON CONDENSATE DRAIN SERVICE CONCEALED IN CEILING SPACE
        - d. PROVIDE JACKET ON DOMESTIC HOT WATER SERVICES IN EXTERIOR LOCATIONS, TO INCLUDE AMBIENT LOCATIONS UNDER COVER
     4) PIPING
        - a. WASTE AND DRAIN
          - i) WASTE PIPING SHALL SLOPE AT 2% UNLESS OTHERWISE NOTED. UNLESS PROHIBITED BY STRUCTURAL CONDITIONS. DRAIN PIPING (CONDENSATE) SHALL SLOPE AT 1%. EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN SIX INCHES ABOVE THE FLOOD RIM OF THE FIXTURE BEFORE OFFSETING HORIZONTALLY.
          - ii) PAINT ABS SERVICES EXPOSED TO SUNLIGHT.
          - iii) ALL CLEAN OUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE.
          - iv) INSTALL HORIZONTAL VENTING WITH PITCH UP TO PRECLUDE FLAT VENTING.
          - v) EACH VENT SHALL TERMINATE NOT LESS THAN 6 INCHES ABOVE THE ROOF NOR LESS THAN 1 FOOT FROM ANY VERTICAL SURFACE, AND SHALL TERMINATE NOT LOESS THAN 10 FEET FROM OR 3 FEET ABOVE ANY OPENING OR AIR INTAKE INTO THE BUILDING.
          - vi) VENT TERMINATION: ALL PLUMBING FIXTURE VENTS TO TERMINATE A MINIMUM OF 36 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM OR TERMINATED 3'-0" ABOVE ANY OUTSIDE AIR INTAKES.
          - vii) AIR GAP: PROVIDE MINIMUM AIR-GAP FOR ALL PIPING DISCHARGING INTO FLOOR-SINKS, STAND PIPES AND DRAINS AS REQUIRED BY LOCAL CODES.
          - viii) PROVIDE FULL PORT BALL VALVES, THREADED ENDS, AND VACUUM BREAKERS ON ALL DRAIN CONNECTIONS AT EQUIPMENT AND HARDWARE.
        - b. WATER
        - c. GAS
          - i) PROVIDE PIPING EXPOSED TO AMBIENT IN GALVANIZED STEEL, OR BLACK STEEL COATED WITH EPOXY BASED PAINT.
          - ii) CONTRACTOR SHALL PROVIDE GAS SERVICE SIZED PER PLANS, AND BUSHED DOWN TO EQUIPMENT CONNECTION SIZE FOR INSTALLATION OF FLEX FROM RIGID PIPE TO EQUIPMENT.
   - C. ACCEPTANCE
     1) IDENTIFY EQUIPMENT AND HARDWARE VIA ENGRAVED ACRYLIC WHITE ON BLACK ADHESIVE LABELS, MANUFACTURED PIPE LABELS, CIRCUIT TAGS AND COMPLETED PANEL SCHEDULE LINE CARDS, ET AL.
     2) REPAIR OR REPLACE ANY DAMAGED CONSTRUCTION ADJACENT TO WORK PROVIDED UNDER THIS SCOPE OF WORK.
     3) AT THE COMPLETION OF THE INSTALLATION TEST EQUIPMENT AND HARDWARE FOR AND DEMONSTRATE TO OWNER'S REPRESENTATIVE'S PROPER OPERATION, AND MAKE ADJUSTMENTS AS REQUIRED. DELIVER VALIDATED CERTIFICATES, WARRANTIES AND GUARANTEES FOR NEW EQUIPMENT TO OWNER'S REPRESENTATIVE.
     4) MAINTAIN ONE SET OF REPRODUCIBLE DRAWINGS OF "AS-BUILT" CONDITIONS. SUBMIT AT THE COMPLETION OF THE PROJECT SAME TO THE OWNER'S REPRESENTATIVE.
     5) TERMS CITED HEREIN ARE REFLECTIVE OF OR IN ADDITION TO REQUIREMENTS FOR COMPLIANCE OF INSTALLATION TO APPLICABLE CODES. CONTRACTOR SHALL SUBMIT TO OWNER'S REPRESENTATIVE FOR APPROVAL OF DEVIATION FROM SAID TERMS.

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PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

DATE	DESCRIPTION

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer:
Client: -
Date Issue: 01.16.2026
Job Number: XX-XXXX

Client:

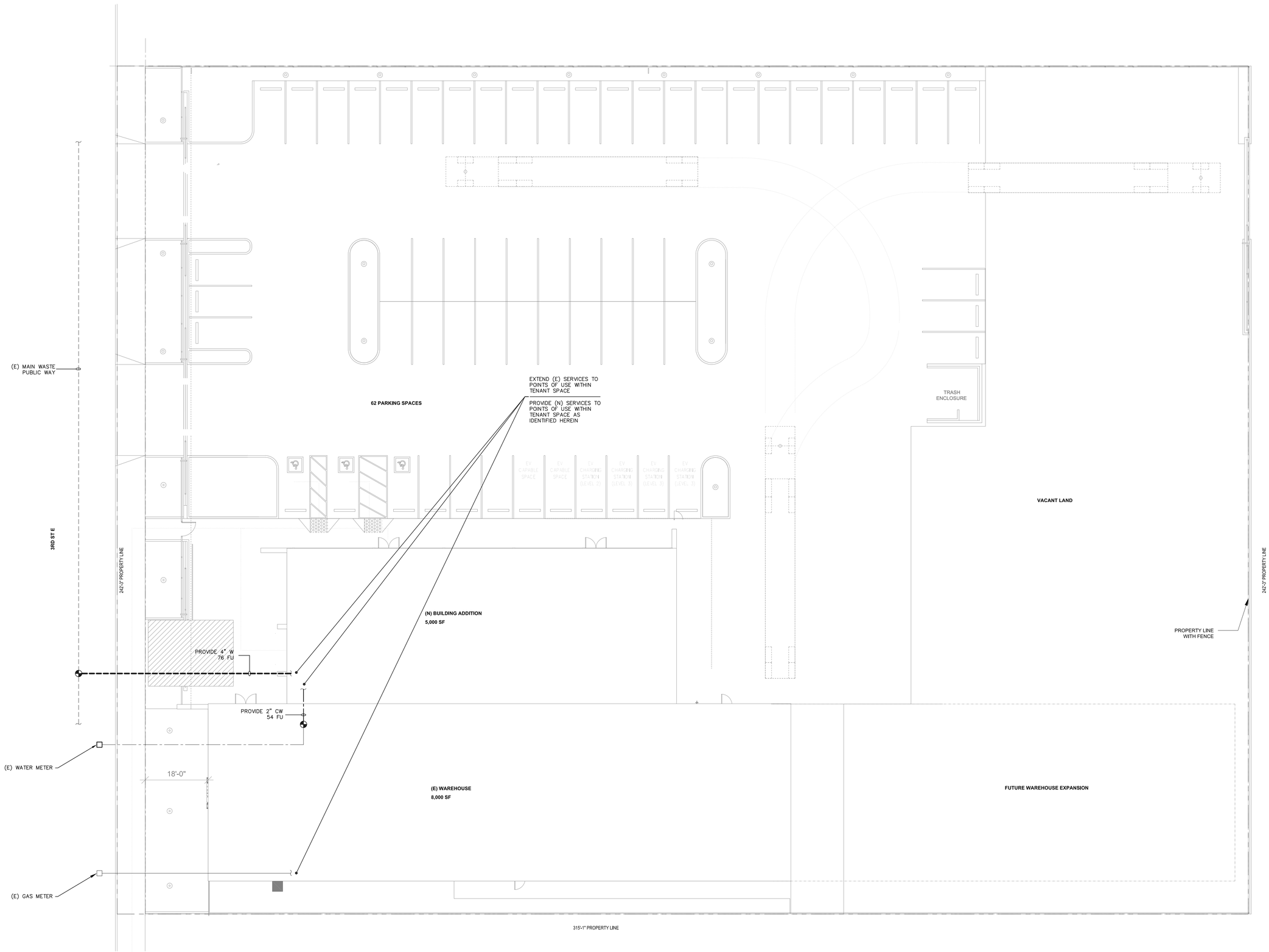
Consultant:

LICENSED PROFESSIONAL ENGINEER
No. 17267
exp. 6/30/22
MECHANICAL
STATE OF CALIFORNIA

- PROJECT NOTES
-
-

P1.1

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SITE PLAN

SCALE: 3/32"=1'-0"

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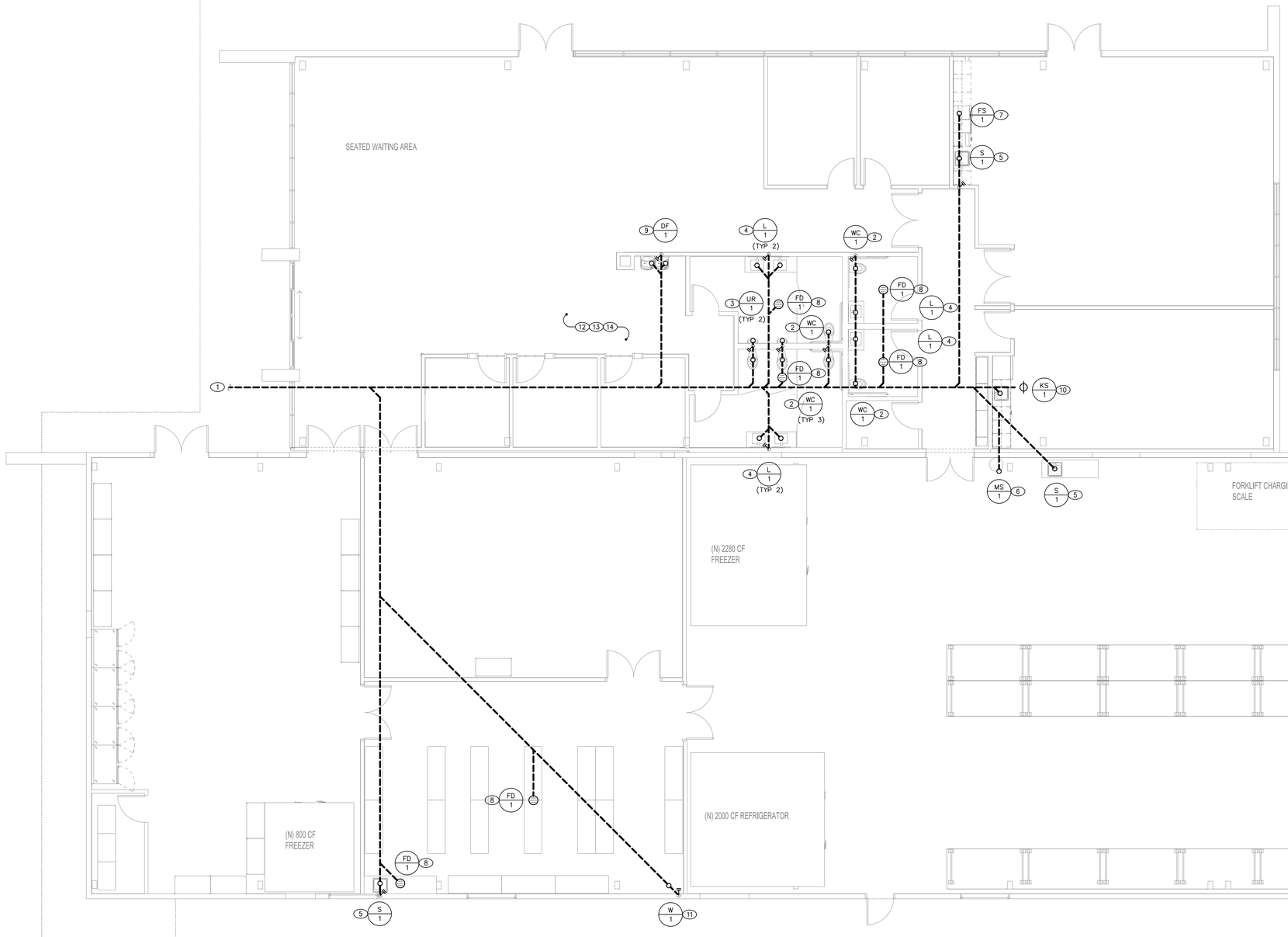
- SITE PLAN

P2.0

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NOTES:

1. PROVIDE 4" W SERVICE FROM (E) W SERVICE ON SITE TO POINTS OF CONNECTION
2. PROVIDE WATER CLOSET WC–1
3. PROVIDE URINAL UR–1
4. PROVIDE LAVATORY L–1
5. PROVIDE SINK S–1
6. PROVIDE MOP SINK MS–1
7. PROVIDE FLOOR SINK FS–1
8. PROVIDE FLOOR DRAIN FD–1
9. PROVIDE DRINKING FOUNTAIN DF–1
10. PROVIDE KITCHEN SINK KS–1
11. PROVIDE WASHER W–1
12. PROVIDE (N) W SERVICES FROM POC TO FIXTURES AS NECESSARY
13. PROVIDE (N) V SERVICES
14. SEE ISOMETRICS FOR W, V SERVICES



FLOOR PLAN – WASTE

SCALE: 3/16"=1'–0"

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Consultant:

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No. 7267
exp. 12/31/27
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- FLOOR PLAN – WASTE

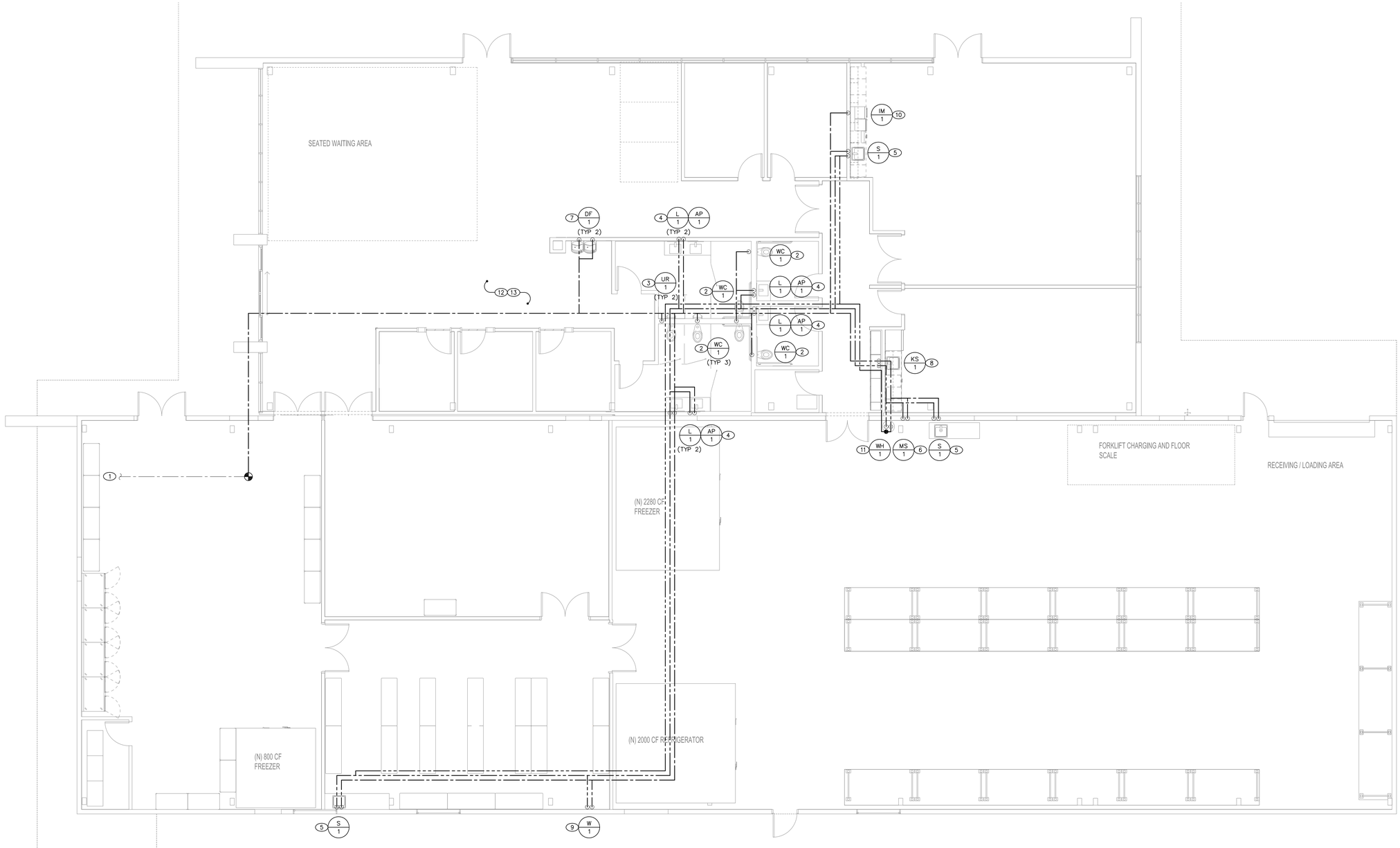
P2.1

3/4" CW TO EACH SIDE OF (4) CORNERS OF BUILDING

CW SERVICES WITH VIS FOR IRRIGATION

NOTES:

1. PROVIDE 2" CW SERVICE FROM (E) CW SERVICE ON SITE TO POINTS OF CONNECTION
2. PROVIDE WATER CLOSET WC–1
3. PROVIDE URINAL UR–1
4. PROVIDE LAVATORY L–1
5. PROVIDE SINK S–1
6. PROVIDE MOP SINK MS–1
7. PROVIDE DRINKING FOUNTAIN DF–1
8. PROVIDE KITCHEN SINK KS–1
9. PROVIDE WASHER W–1
10. PROVIDE ICE MAKER IM–1
11. PROVIDE WATER HEATER WH–1
12. PROVIDE (N) CW SERVICE FROM POC TO FIXTURES AND EQUIPMENT AS NECESSARY
13. SEE ISOMETRICS FOR CW SERVICES



FLOOR PLAN – HOT & COLD WATER, GAS

SCALE: 3/16"=1'–0"

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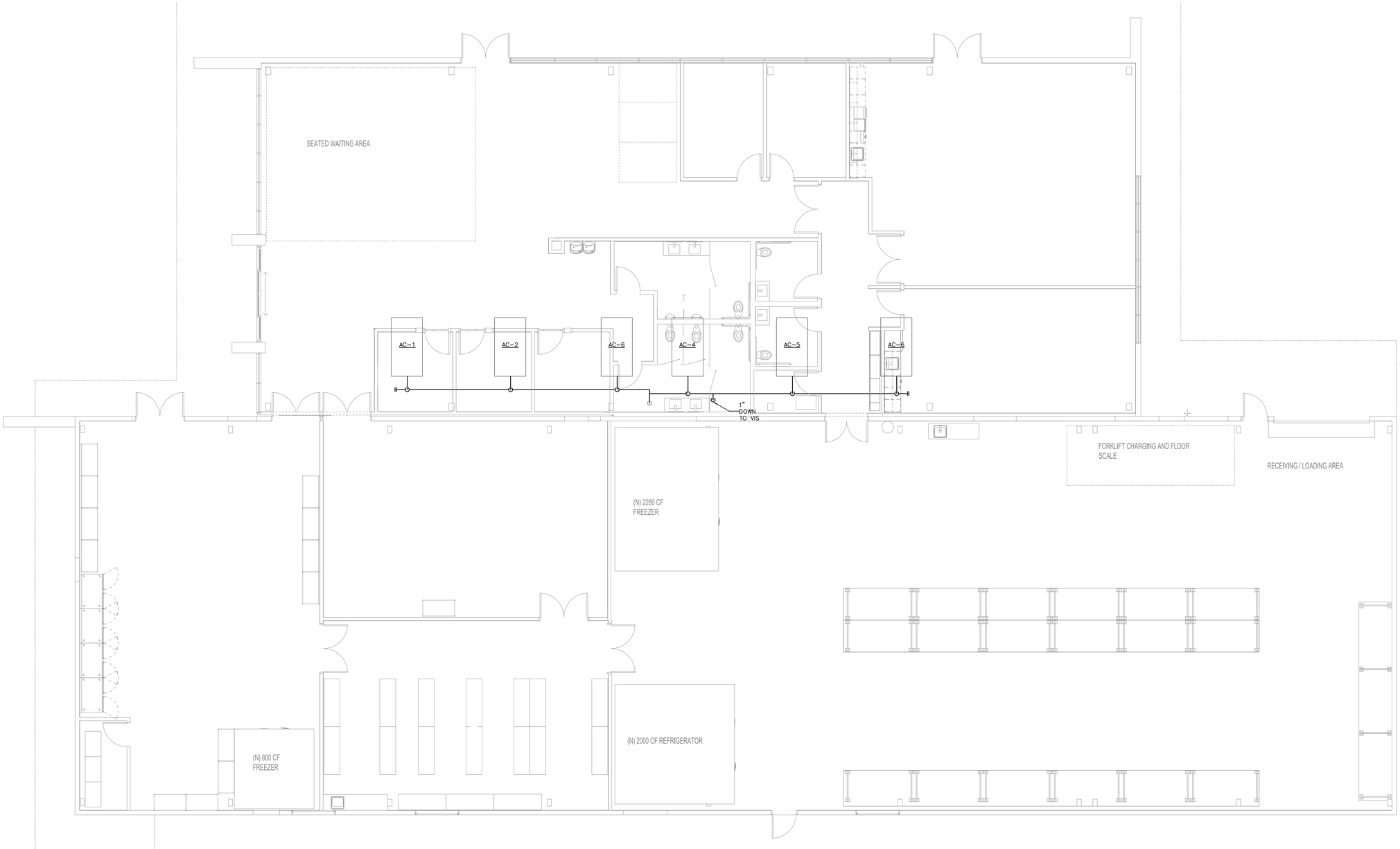
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- FLOOR PLAN – HOT & COLD WATER, GAS

P2.2

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FLOOR PLAN - CONDENSATE

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

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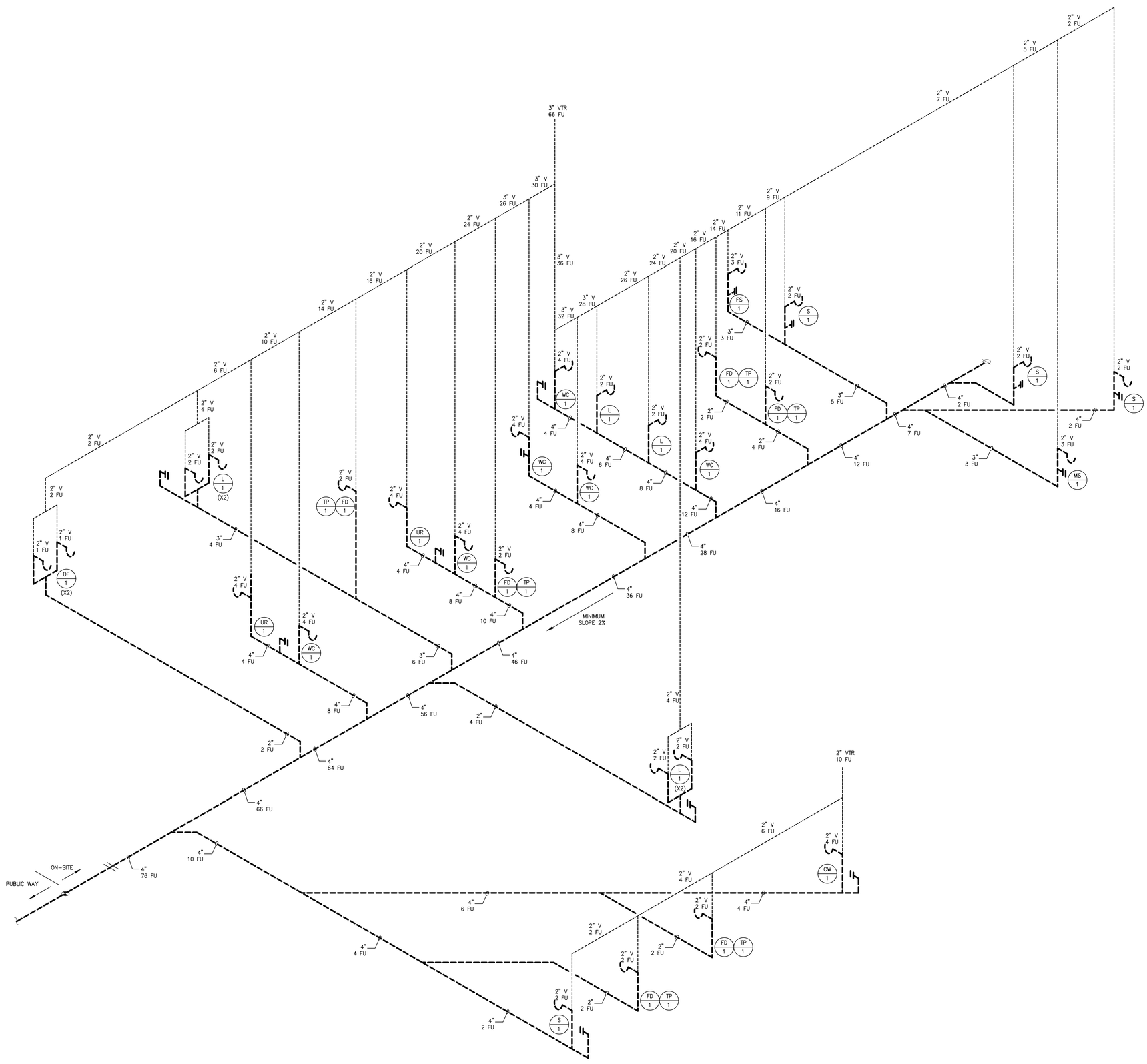
- FLOOR PLAN - CONDENSATE

P2.3

WASTE & VENT ISOMETRIC

NOTES:

1. WASTE SERVICE SHALL BE INSTALLED WITH A MINIMUM 2% SLOPE
2. PIPING MATERIALS SHALL BE SERVICE WEIGHT HUBLESS CAST IRON PIPE AND FITTINGS WITH NEOPRENE GASKETS AND CAST IRON CLAMPS AND STAINLESS STEEL NUTS, BOLTS, AND WASHERS; ALTERNATIVE: SCHEDULE 40 ABS WITH ABS FITTINGS AND SOLVENT WELD
3. VENT SERVICE SHALL BE DEVELOPED PER REQUIREMENTS FOR COMBINATION WASTE AND VENT SERVICE



WASTE & VENT ISOMETRICS

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REGISTERED PROFESSIONAL ENGINEER
No. 27567
exp. 12/31/27
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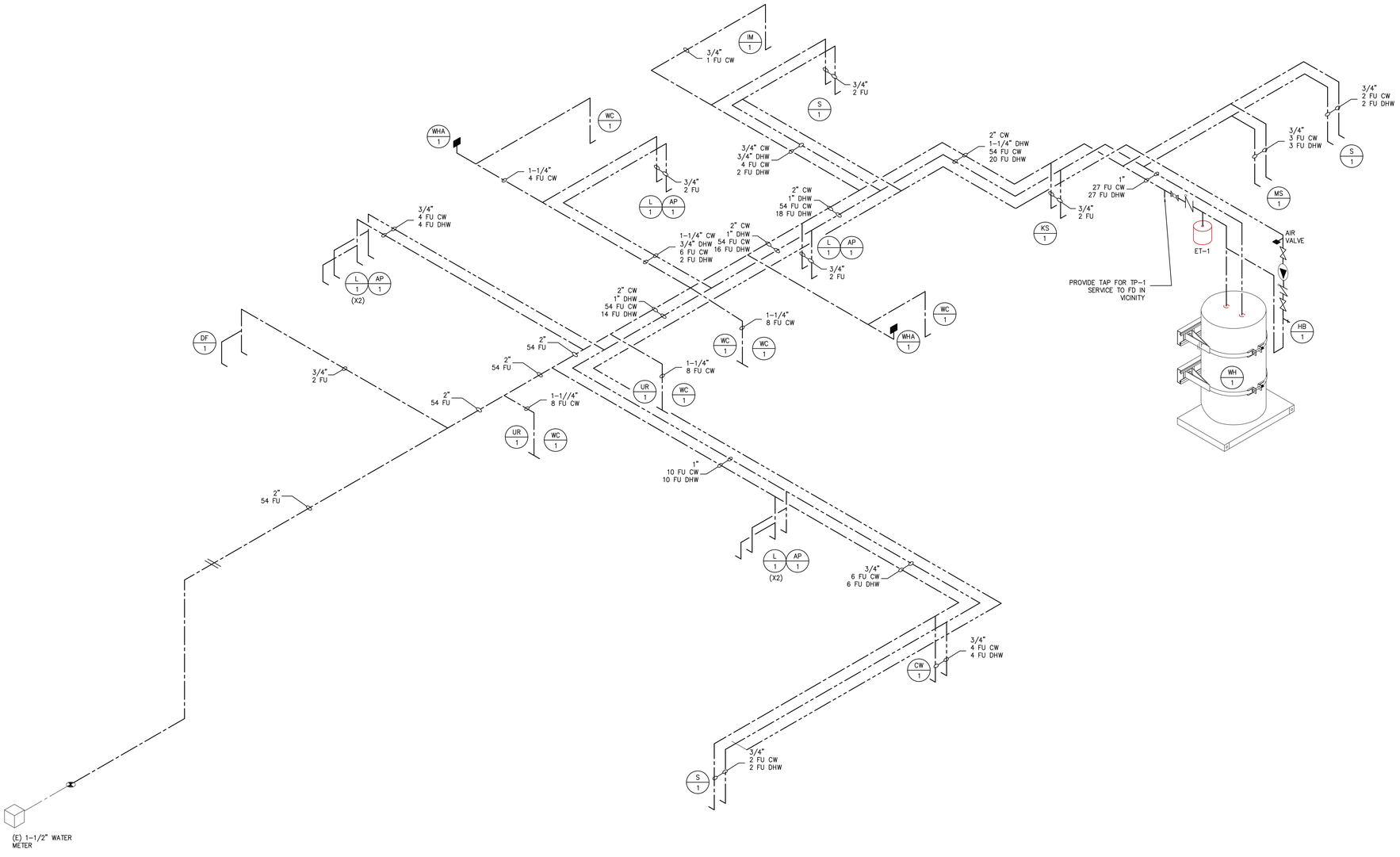
- WASTE & VENT ISOMETRICS

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HOT & COLD WATER ISOMETRIC



NOTES:

1. HOT AND COLD WATER PIPING (ABOVE GROUND) SHALL BE COPPER TYPE "M" WITH 95/5 TIN/ANTIMONY SOLDER, WROT COPPER FITTING, UNLESS OTHERWISE IDENTIFIED
2. COLD WATER BELOW OUTSIDE OF BUILDING PERIMETER SHALL BE COPPER TYPE L AS IDENTIFIED ABOVE
3. PROVIDE DHW RECIRCULATION LOOP TO MEET REQUIREMENTS OF CEC 110.3.C.5, TO INCLUDE THE FOLLOWING: PROVIDE TIME CLOCK CONTROL OF CIRC PUMP
   - A. RECIRCULATION PUMP IN VERTICAL PRIMED POSITION
   - B. CHECK VALVE DOWNSTREAM OF PUMP BEFORE HEATING EQUIPMENT
   - C. HOSE BIBB BETWEEN PUMP AND HEATING EQUIPMENT, AND ISOLATION VALVE BETWEEN HOSE BIBB AND PUMP
   - D. PUMP ISOLATION VALVES
   - E. CW SUPPLY, DHWR SERVICES CONNECTED TO TANK SEPARATE FROM DRAIN LINE
   - F. CHECK VALVE AT CW SUPPLY
4. PROVIDE TIME CLOCK CONTROL OF CIRC PUMP
5. THE BRANCH FROM THE RECIRCULATING LOOP SHALL CONTAIN A MAXIMUM OF 0.6 GALLONS IN COMPLIANCE WITH LAPC 610.4.1.2
6. THE MAXIMUM ALLOWABLE LENGTH FROM THE HOT WATER RECIRCULATING LINE TO THE FIXTURE IS AS FOLLOWS: 1/2"= 60FT , 3/4" = 26FT , 1" = 15FT

COLD WATER PIPE SIZING (FLUSH VALVE)		
*COLD WATER PIPE SIZING BASES ON 7.6 PSI/100 FT AND MAX. VELOCITY OF 8 FPS FOR COLD WATER PIPING		
PIPE SIZE INCHES	FIXTURE UNITS COLD WATER SERVICE FU 8 MAX FT/S MAXIMUM	GPM
1/2	0	–
3/4	0	–
1	0	–
1 1/4	11	28
1 1/2	35	44
2	132	76
2 1/2	329	115
3	666	165
3 1/2	1091	220
4	1668	290
*INFORMATION ADAPTED FROM 2022 CALIFORNIA PLUMBING CODE		

DOMESTIC HOT WATER PIPE SIZING		
*HOT WATER PIPE SIZING BASES ON 4.0 PSI/100 FT AND MAX. VELOCITY OF 5 FPS FOR HOT WATER PIPING		
PIPE SIZE INCHES	FIXTURE UNITS HOT WATER SERVICE FU 5 MAX FT/S MAXIMUM	GPM
1/2	1	2
3/4	6	5
1	15	11
1 1/4	28	19
1 1/2	46	27
2	119	44
2 1/2	245	74
3	406	115
3 1/2	585	140
4	840	185
*INFORMATION ADAPTED FROM 2022 CALIFORNIA PLUMBING CODE		

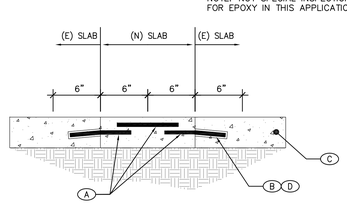
(E) SERVICE FROM (E) WM INTO SPACE TO BE MAINTAINED; SIZE THEREAFTER PER SIZING REQUIREMENTS

HOT & COLD WATER ISOMETRICS

NOTES:

- (A) #4 REBAR DOWELS AT 18" O.C.
- (B) DRILL 9/16"ø MINIMUM HOLE, FILL WITH SIMPSON "SET-XP" EPOXY (ESR-2089) AND INSERT DOWEL
- (C) (N) CONCRETE SLAB
- (D) DRILL HOLE AT SLANT FOR ACCESS

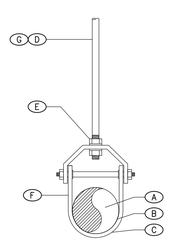
NOTE: NOT SPECIAL INSPECTION IS REQUIRED FOR EPOXY IN THIS APPLICATION



DOWELS AT TRENCH REPAIR — NO SCALE — 4

NOTES:

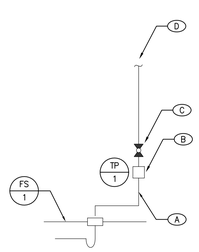
- (A) PROVIDE CW, DHW, DHWR, W, V SERVICES
- (B) PROVIDE PIPE INSULATION AS NECESSARY
- (C) PROVIDE PIPE SADDLES OR INSULATION INSERTS
- (D) PROVIDE THREADED ROD PIPE SUPPORT; SECURE THREADED ROD TO ANGLE CLIP HARDWARE WITH DOUBLE-NUT ASSEMBLY; SECURE ANGLE CLIP TO ROOF FRAMING ELEMENTS VIA 2"X3/16" LAG SCREW WITH PILOT HOLE
- (E) FLAT WASHERS TOP AND BOTTOM WITH DOUBLE NUTS
- (F) PROVIDE ADJUSTABLE STEEL CLEVIS HANGER
- (G) SUPPORT SERVICES PER CPC TABLE 3-2



TYPICAL PIPE SUPPORT — NO SCALE — 3

NOTES:

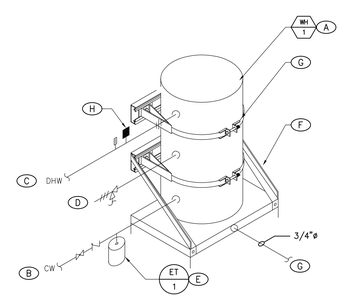
- (A) LINE-SIZED COPPER TUBE FROM TP-1 TO DISCHARGE WITH 1" AIRGAP
- (B) TRAP PRIMER ACCESSIBLE FROM WITHIN BULKHEAD
- (C) ISOLATION VALVE
- (D) TO CW SERVICE



TYPICAL PRIMER — NO SCALE — 2

NOTES:

- (A) PROVIDE 30 GALLON WATER HEATER, WH-1
- (B) PROVIDE CW SERVICE TO WH-1
- (C) PROVIDE DHW SERVICE FROM WH-1 TO POINTS OF USE
- (D) PROVIDE LINE-SIZED T&P RELIEF PIPING TO MOP SINK IN VICINITY
- (E) PROVIDE EXPANSION TANK ET-1
- (F) PROVIDE MANUFACTURED STAND FOR SIZE, WEIGHT TO INCLUDE SEISMIC STRAPS FOR LISTED INSTALLATION
- (G) PROVIDE DRAIN SERVICE TO EXTERIOR OBSERVABLE LOCATION
- (H) PROVIDE VACUUM BREAKER AT 1" ABOVE HIGH POINT OF DHW SERVICE



STORAGE TANK STRAPPING/PIPING DETAIL — NO SCALE — 1

BOA Architecture Interiors Planning
1511 Cota Ave. Long Beach, CA 90813 Tel. 562-912-7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

NO.	DESCRIPTION	BY

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer: –
Client: –
Date Issue: 01.16.2026
Job Number: XX-XXXX

Client:

Consultant:



- HOT & COLD WATER ISOMETRICS

P3.1

FIXTURE UNIT CALCULATIONS – PROPOSED

PROJECT NAME: LAUNDRY – 38820 3RD STREET EAST
PROJECT NUMBER: 2288
DATE: 10/06/2025
BY: RT

PROJECT LOCATION: PALMDALE, CA CODE: 2022

FIXTURES	QUANTITY	WASTE FU (EACH)	WASTE FU (TOTAL)	COLD WATER (AT 100%) FU (EACH)	COLD WATER (AT 100%) FU (TOTAL)	HOT WATER (AT 100%) FU (EACH)	HOT WATER (AT 100%) FU (TOTAL)
WATER CLOSET	6	4	24	3	18		
URINAL	2	4	8	3	6		
LAVATORY	6	2	12	2	12	2	12
SINK	4	2	8	2	8	2	8
MOP SINK	1	3	3	3	3	3	3
FLOOR SINK	1	3	3				
FLOOR DRAIN	6	2	12				
CLOTHES WASHER	1	4	4	4	4	4	4
ICE MAKER	1			1	1		
DRINKING FOUNTAIN	2	1	2	1	2		
SUBTOTAL:		76		54		27	

BUILDING SEWER SIZE:	6"	INCHES
COLD WATER:	54	FU
COLD WATER (CONTINUOUS FLOW DEMAND):	54	FU
COLD WATER DEMAND:	54	FU

CW PLUMBING PRESSURE CALCULATION

PROJECT NAME: LAUNDRY – 38820 3RD STREET EAST
PROJECT NUMBER: 2288
DATE: 10/06/2025
BY: RT

PROJECT LOCATION: PALMDALE, CA CODE: 2022

SYSTEM PRESSURE

AVAILABLE PRESSURE				MINIMUM	50	PSI
				MAXIMUM	60	PSI
PRESSURE REQUIRED AT FARTHEST FIXTURE					20	PSI
PRESSURE LOSS DUE TO HEIGHT					2	PSI
PRESSURE LOSS THRU METER: 1–1/2 INCHES					6	PSI
PRESSURE LOSS THRU BACKFLOW PREVENTER						PSI
OTHER LOSSES						PSI
				SUBTOTAL	28.0	PSI
LOSS AVAILABLE FOR FRICTION	50	–	28.0	=	22.0	PSI

LENGTH OF RUNS

METER TO FARTHEST FIXTURE				OUTSIDE BUILDING:	30	FT
				INSIDE BUILDING:	200	FT
				TOTAL:	230	FT
EQUIVALENT LENGTH (1.25 FACTOR FOR FITTINGS)	230	x	1.25	=	288	FT

ALLOWABLE FRICTION LOSS

PRESSURE AVAILABLE (PSI) / EQUIVALENT (FT) / 100 (FT)	22 / 287.5	x	100	=	7.7	PSI

* WATER CALCULATION FOR ENGINEERED PLUMBING SYSTEM BASED ON APPENDIX A OF THE CPC

DHW PLUMBING PRESSURE CALCULATIONS

PROJECT NAME: LAUNDRY – 38820 3RD STREET EAST
PROJECT NUMBER: 2288
DATE: 10/06/2025
BY: RT

PROJECT LOCATION: PALMDALE, CA CODE: 2022

SYSTEM PRESSURE

AVAILABLE PRESSURE				MINIMUM	50	PSI
				MAXIMUM	60	PSI
PRESSURE REQUIRED AT FARTHEST FIXTURE					20	PSI
PRESSURE LOSS DUE TO HEIGHT					2	PSI
PRESSURE LOSS THRU METER: 1–1/2 INCHES					6	PSI
PRESSURE LOSS THRU BACKFLOW PREVENTER						PSI
OTHER LOSSES						PSI
				SUBTOTAL	28.0	PSI
LOSS AVAILABLE FOR FRICTION	50	–	28.0	=	22	PSI

LENGTH OF RUNS

METER TO FARTHEST FIXTURE				OUTSIDE BUILDING:	30	FT
				INSIDE BUILDING:	400	FT
				TOTAL:	430	FT
EQUIVALENT LENGTH (1.25 FACTOR FOR FITTINGS)	430	x	1.25	=	538	FT

ALLOWABLE FRICTION LOSS

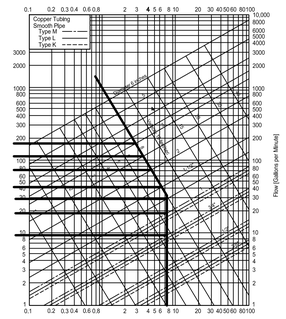
PRESSURE AVAILABLE (PSI) / EQUIVALENT (FT) / 100 (FT)	22 / 538	x	100	=	4.1	PSI

* WATER CALCULATION FOR ENGINEERED PLUMBING SYSTEM BASED ON APPENDIX A OF THE CPC

PIPE SIZING – CW (FLUSH VALVE)

PROJECT NAME: LAUNDRY – 38820 3RD ST. EAST
PROJECT NUMBER: 2288
DATE: 10/06/2025
BY: RT

PROJECT LOCATION: PALMDALE, CA Code: 2022 CPC



PIPE MATERIAL M

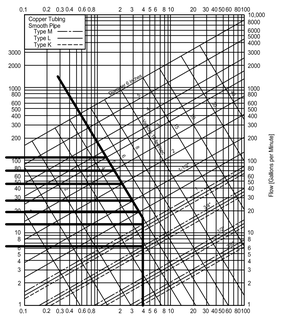
SIZE	FIXTURE UNITS: COLD WATER SERVICE FU 8 MAX FT/S MAXIMUM	GPM
0.75	–	–
1	–	–
1.25	11	28
1.5	35	44
2	132	76
2.5	329	115
3	666	165

* COLD WATER PIPE SIZING BASED ON 7.6 PSI/100FT AND MAX. VELOCITY OF 8 FPS FOR COLD WATER PIPING.

PIPE SIZING – DHW

PROJECT NAME: LAUNDRY – 38820 3RD ST. EAST
PROJECT NUMBER: 2288
DATE: 10/06/2025
BY: RT

PROJECT LOCATION: PALMDALE, CA Code: 2022 CPC



PIPE MATERIAL M

SIZE	FIXTURE UNITS: HOT WATER SERVICE FU 5 MAX FT/S MAXIMUM	GPM
0.75	(6 FU / 0.75) = 8	7
1	(15 FU / 0.75) = 20	14
1.25	(28 FU / 0.75) = 37	24
1.5	(46 FU / 0.75) = 61	34
2	(119 FU / 0.75) = 159	57
2.5	(245 FU / 0.75) = 327	91
3	(406 FU / 0.75) = 541	133

* HOT WATER PIPE SIZING BASED ON 4.0 PSI/100FT AND MAX. VELOCITY OF 5 FPS FOR HOT WATER PIPING. FACTOR OF 75% ACCOUNTED FOR IN TABLE FOR DE-RATED DHW LOADS.

These drawings and accompanying, as instruments of service, are the exclusive property of the Architect and their use and publication shall be restricted to the original site for which they were prepared. Re-use, reproduction or publication by any method, in whole or part, is prohibited by written permission from the Architect. Title to these plans and specifications shall remain with the Architect without prejudice, and visual with them shall constitute prima facie evidence of acceptance of these restrictions.

Architecture Interiors Planning
BOA
1511 Cota Ave. Long Beach, CA 90813 Tel. 562-912-7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

BY	DESCRIPTION	DATE

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer: –
Client: –
Date Issue: 01.16.2026
Job Number: XX–XXXX

Client:

Consultant:



- WATER
- C ALCULATION
-

P4.0

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 1 of 7)
Project Address:	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-21T14:11:37-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Palmdale	02	Climate Zone	14
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 140.5/170.2(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)		☐ Equipment ☐ Distribution ☐ Controls
☒ System Alteration (equipment, distribution or controls)	Central System (serving nonresidential spaces)	☒ 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 occupancies

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	**Compliance Results**
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

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

Generated Date/Time: Documentation Software: Energy Code Ace

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 2 of 7)
	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-21T14:11:37-05:00

E. ADDITIONAL REMARKS

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

F. DOMESTIC HOT WATER EQUIPMENT

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

Equipment Schedule: Water Heating Efficiency and Standby Loss

03	04			05		06			
System Name	WH-1	Exception to 140.5(c)/170.2(d)3	Exceptions Do Not Apply	☐	Gas Service Water Heating System >= 1MMBtu/h[1]	Capacity-weighted Average Efficiency %			
07	08	09	10		11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
WH-1	Consumer Rated Electric Storage	41-50		51<= FHR <75	0.92	0.92	UEF		

[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

Water Heating Equipment All Occupancies

	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 ≥5.8 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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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 334650-0126-0006
Report Generated: 2026-01-21 11:11:40

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 3 of 7)
	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-21T14:11:37-05:00

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

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

Recirculation Loops in Central Systems Serving Dwelling Units or Nonresidential Spaces

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

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Report Version: 2022.0.000
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CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 4 of 7)
	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-21T14:11:37-05:00

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

Mandatory Pipe Insulation All Occupancies

13	☐	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see below) 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.
14	☐	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
15	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
			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

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	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-21T14:11:37-05:00

H. DOMESTIC HOT WATER CONTROLS

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

	Yes	No	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 §13.0.
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 automatic pump controls 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 160.4(3).on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	☐	☐	☒	Boiler combustion air fans with motor >= 10 hp shall meet one of the following • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume.
08	☐	☐	☒	Newly installed boilers with an input capacity (δ gtp) / 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.

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CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 6 of 7)
	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-21T14:11:37-05:00

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title:

NRCI-PLB-E - Must be submitted for all buildings

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	(Palmdale) Tenant Improvement / Addition - Palmdale SAVES	Report Page: (Page 7 of 7)
Project Address:	38820 3RD STREET E, PALMDALE CA 93550	Date Prepared: 2026-01-21T14:11:37-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Kevin Friedman	Documentation Author Signature:
Company: ENGINEERING – DESIGN – ANALYSIS, INCORPORATED	Signature Date: 2026-01-20
Address: 10061 TALBERT AVENUE SUITE 300	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: FOUNTAIN VALLEY CA 92708	Phone: (714) 913-8383

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: KEVIN FRIEDMAN	Responsible Designer Signature:
Company: ENGINEERING – DESIGN – ANALYSIS, INCORPORATED	Date Signed: 2026-01-20
Address: 10061 TALBERT AVENUE SUITE 300	License:
City/State/Zip: FOUNTAIN VALLEY CA 92708	Phone: (714) 913-8383

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 334650-0126-0006
Report Generated: 2026-01-21 11:11:40

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BOA
Architecture
Interiors
Planning
1511 Cota Ave. Long Beach, CA 90813 Tel. 562-912-7900

PALMDALE SAVES
TI/ADDITION
38820 3RD ST E

NO.	DATE	DESCRIPTION

Designer: Designer
CAD Draft: Author
Architect: Checker
Engineer:
Client: –
Date Issue: 01.16.2026
Job Number: XX-XXXX

Client:

Consultant:

REGISTERED PROFESSIONAL ENGINEER
KEVIN M. FRIEDMAN
No. 17267
exp. 12/31/27
MECHANICAL
STATE OF CALIFORNIA

- TITLE 24 – WATER HEATER

P5.0

TITLE 24 – WATER HEATER

PALMDALE SAVES
LANDSCAPE PLANS

38820 3RD ST E
PALMDALE CA 93550
AIN:3006-008-925

CERTIFICATIONS

Appendix C – Sample Certificate of Completion.

CERTIFICATE OF COMPLETION
This certificate is filled out by the project applicant upon completion of the landscape project.

PART 1. PROJECT INFORMATION SHEET

Date			
Project Name			
Name of Project Applicant		Telephone No.	
		Fax No.	
Title		Email Address	
Company		Street Address	
City		State	Zip Code

Project Address and Location:

Street Address		Parcel, tract or lot number, if available.	
City		Latitude/Longitude (optional)	
State	Zip Code		

Property Owner or his/her designee:

Name		Telephone No.	
		Fax No.	
Title		Email Address	
Company		Street Address	
City		State	Zip Code

Property Owner
"I/we certify that I/we have received copies of all the documents within the Landscape Documentation Package and that it is our responsibility to ensure that the landscape and irrigation will be maintained in accordance with the Landscape and Irrigation Maintenance Schedule."

_____
Property Owner Signature Date

Please answer the questions below:
1. Date the Landscape Documentation Package was submitted to the local agency:_____
2. Date the Landscape Documentation Package was approved by the local agency:_____
3. Date a copy of the approved Landscape Worksheet (including the Water Budget Calculation) was submitted to the local water purveyor:_____

PART 2. CERTIFICATION OF INSTALLATION ACCORDING TO THE LANDSCAPE DOCUMENTATION PACKAGE 37
"Based upon periodic site observations, the work has been substantially completed in accordance with the ordinance and that the landscape planting and irrigation installation conform with the criteria and specifications of the approved Landscape Documentation Package."

Signature*		Date	
Name (print)		Telephone No.	
		Fax No.	
Title		Email Address	
License No. or Certification No.			
Company		Street Address	
City		State	Zip Code

*Signer of the landscape design plan, signer of the irrigation plan, or a licensed landscape contractor

PART 3. IRRIGATION SCHEDULING
Attach parameters for setting the irrigation schedule on controller per ordinance Section 492.10.

PART 4. SCHEDULE OF LANDSCAPE AND IRRIGATION MAINTENANCE
Attach schedule of Landscape and Irrigation Maintenance per ordinance Section 492.11.

PART 5. LANDSCAPE IRRIGATION AUDIT REPORT
Attach Landscape Irrigation Audit Report per ordinance Section 492.12.

PART 6. WATER MANAGEMENT REPORT
Attach soil analysis report, if not previously submitted with the Landscape Documentation Package per ordinance Section 492.5.
Attach documentation verifying implementation of recommendations from soil analysis report per ordinance Section 492.5.

SOILS REPORT

Anaheim Office
Lab No. 17-244-0308
March 29, 2025

Graham Stanley & Associates, Inc.
1376 Coronado Ave.
Long Beach, CA 90804

PROJECT: 38820 3RD STREET 3, PALMDALE, CA 93550

Attached are the results of the analysis performed on a soil sample that was collected from the above mentioned project site by the client and received by our laboratory on **3/28/25**. This sample was analyzed for nutrient levels and soil suitability in preparation for a new landscape installation.

Analytical Results:

The reaction of the soil is slightly alkaline at 7.3 on the pH scale, which is in the preferred range for most plants. Qualitative lime is favorably low. No pH adjustment is recommended.

Salinity (EC), soluble sodium, and boron levels are favorably low. The safety low sodium adsorption ratio (SAR) of 3.0 indicates that sodium is properly balanced by calcium and magnesium in regards to its effect on soil structure and water infiltration.

Nitrogen is optimum. Phosphorus is low and potassium is low optimum. Calcium and magnesium are at sufficient levels for plant nutrition. In terms of micronutrients, copper and zinc are below optimum. Manganese and iron levels are very low.

The texture of the soil is classified as 'sandy clay loam' based off the USDA soil classification standards. The estimated water infiltration rate, which may vary with the degree of soil compaction, is 0.29 inches per hour. Organic content is 1.2% by total dry weight.

Recommendations

Surface Soil Preparation for Groundcover and Mass Planting

If feasible, prior to amending the areas where severe compaction exists, the surface soil should be ripped or tilled to a 9-inch depth. Uniformly broadcast and blend the following with existing soil to a 6-inch depth.

Materials	Amount per 1000 sq.ft.
Nitrogen fortified organic amendment (compost* or redwood or fir sawdust)	4 cu. Yards
14-14-14 Landscape Color	4 lbs.

*Rates and fertilizers may have to be adjusted depending on analysis of selected compost.

Tree and Shrub Planting Guidelines

1. Excavate planting pits at least twice the diameter of the rootball.
2. Set the tree or shrub plumb and at the same depth as grown.
3. To improve soil chemistry, uniformly blend 1 ½ -4 cubic feet (cf) of native per cubic yard of backfill soil. Handle iron sulfate with caution since it will severely stain mold concrete.
4. Organic material is not required in the backfill; however, if you wish, the amended surface soil or a soil blend consisting of no more than 20% by volume organic matter can be placed in the upper 12 inches of backfill only. Soil blends with more than 20% organic matter or any added organic matter because of the threat of plant disease and/or anaerobic soil conditions developing.
5. Place slow release fertilizer tablets in the upper 12 inches of backfill at manufacturer's recommended rates. If fertilizer amended soil is used as a backfill the addition of slow release fertilizer tablets is not necessary.
6. Do not cover the original rootball with other soil. Ideally, a temporary soil berm is often constructed around the edge of the planting hole. This berm is removed after the plant is established and the backfill until roots are established in the backfill and the rootball is no longer the sole source of water for the plant.
7. Ideally, a weed and turf free zone, preferably 2-3 ft. in diameter, should be maintained just beyond the diameter of the planting hole. A 2-4 inch deep layer of coarse mulch can be placed around the tree or shrub; mulch should be kept a minimum 4-6 inches from the trunk.

Maintenance Fertilization

For turf, groundcover and mass planting areas, uniformly broadcast sulfur coated urea at the rate of 5 lbs. per 1000 sq. ft. The first application should occur approximately 90 days after planting, with repeat applications every 60-90 days or as recommended by the soil test report. Do not fertilize during periods of excessive heat or cold. Do not apply sulfur coated urea at the rate of 5 lbs. per 1000 sq. ft. to ensure continuing supplies of phosphorus and potassium. Tree and shrub plantings can be maintained with the above fertilizers; however, the frequency between applications should be every 120 days, with the first application 90 days after planting. Follow each fertilization with a thorough irrigation. When plants have become well established, fertilizer applications can be less frequent.

As noted above, some of the micronutrients are below optimum. When these nutrients are low, especially in an alkaline soil, deficiencies can sometimes show in the plants. If deficiencies show once plants have become established, they may be addressed upon the first sign of deficiency. Symptoms of manganese deficiency may be seen as a general loss of color in the young leaves, followed by yellowing between veins and brownish-black spots appearing. Iron and zinc deficiencies usually appear as yellowing between veins of young leaves, followed by a general yellowing condition. If these symptoms are apparent once plants are established, then an application of iron, zinc, and/or manganese chelate at the manufacturer's label rate may improve appearance. Chelates are generally more effective on alkaline soils than some of the other forms of trace elements.

If we can be of any further assistance, please feel free to contact us.

Joe Kiefer

TABULATIONS

SITE DATA:

Total Site Area –	76,350 s.f.
Developed Area –	54,000 s.f.
Vacant Area –	22,350 s.f.
Total Building Area –	13,000 s.f.
Hardscape Area –	36,220 s.f.
Lanscape Area –	4,780 s.f.

CITY OF PALMDALE TREE REQUIREMENTS:

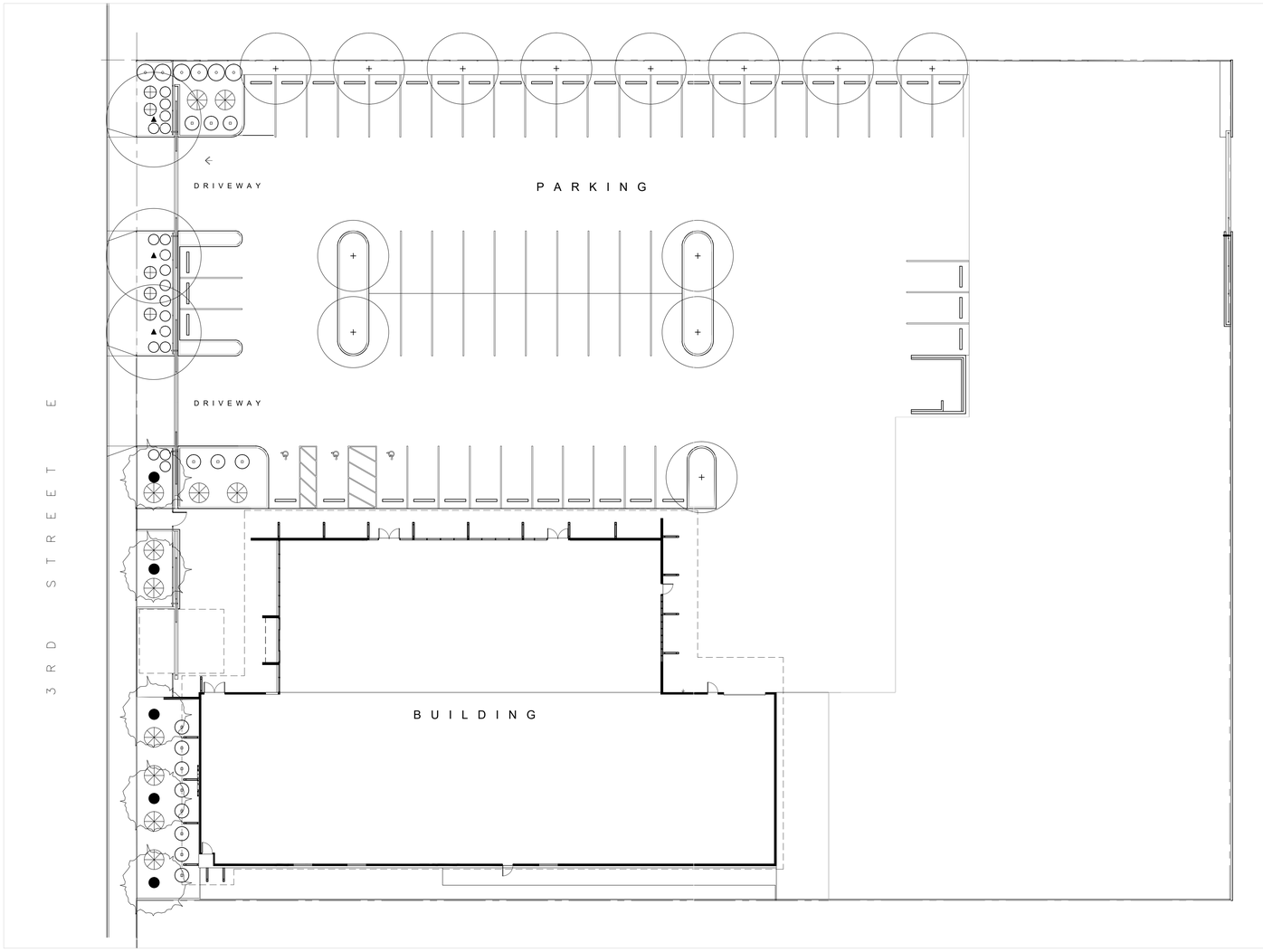
Minimum of 1 tree for each 4 parking spaces.
61 spaces = 16 trees total.

For required on-site trees, at least 50% (24") box & minium 2" caliper, and at least 20% are to be (36") box & minimum 2.5" caliper.

Total Required 24" box trees: 8
Total Provided 24" box trees: 13

Total Provided 36" box trees: 3
Total Provided 36" box trees: 3


PROJECT SITE
Ward Ave
Commerce Center Dr
Commerce Center Dr
Technology Dr
Technology Dr
Technology



PLANTING PLAN

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

NORTH

PLANT MATERIALS

QTY	SIZE	BOTANICAL NAME	COMMON NAME	PF
TREES				
3	36"Box	Fraxinus velutina 'Modesto'	Velvet Ash	Med
13	24"Box	Prosopis alba 'Colorado'	Argentine mesquite	Low
5	6' BTH	Washingtonia filifera	California fan palm	Low
SUCCULENTS				
9	15 gal.	Agave americana	Century Plant	Low
5	5 gal.	Dasylirion wheeleri	Spoon Yucca	Low
14	5 gal.	Justicia californica	Chuparosa	Low
5	15 gal.	Leucophyllum frutescens	Texas Ranger	Low
17	5 gal.	Muhlenbergia dumosa	Bamboo Muhly	Low

INERT MATERIALS

Decomposed Granite

HYDROZONE DATA

(H)	HIGH WATER ZONE:	0 SF	(0.0%)
(M)	MEDIUM WATER ZONE:	48 SF	(2%)
(L)	LOW WATER ZONE:	3,102 SF	(98%)
(S)	SPECIAL LANDSCAPE ZONE:	0 SF	(NA)

PLANTING NOTES

1. **Plant Quantities –** Plant quantities in the materials list are only a guide. Plants on the plan have precedence. Contractor is responsible for verifying exact quantities. Plant and tree installation shall be per City codes, regulations and standards.
2. **Soil Amendments –** The following amendments shall be evenly spread and thoroughly incorporated into the top 6" of soil, and in the amending of shrub and tree planting holes. Amending shall be done throughout all the planter beds except in the areas where existing shrub roots may be damaged. Do not disturb soil within drip line of existing shrubs.
   Gro-Power Plus w/"M" 200 lbs. per 1000 sq. ft.
   Agricultural Gypsum 50 lbs. per 1000 sq. ft.
   Gypsite 25 lbs. per 1000 sq. ft.
   Nitrogenized Shavings 4 cu. yd. per 1000 sq. ft.
3. **Fertilizer –** All plant material shall be planted with Agriform pre-plant fertilizer tablets or equivalent. Quantity of tablets to be used per plant as per manufacturer's specifications.
4. **Utility/Irrigation Sleeving –** Landscape Contractor is responsible for coordinating installation of utility/irrigation sleeving with Masonry Contractor.

IRRIGATION NOTES

1. Valving – All newly landscape areas shall be provided with a permanent and adequate irrigation system which is properly maintained. Irrigation system shall be valved so that all lawn and shrub areas are separated.
2. Automation – The new irrigation system shall be automated for the client's convenience and to keep the landscape healthy and vigorous. Enclose the automatic controller in a lockable housing.
3. Components – The contractor shall use only brand name commercial irrigation pipe and components to assemble the irrigation system. All piping shall be a minimum of schedule 40 pvc. City approved backflow prevention devices shall be provided and screened from view with architecturally consistant materials and/or landscaping.
4. Coverage – Design the irrigation system to provide sufficient coverage avoiding watering overspray onto buildings and hardscape.

REVISIONS	BY

GRAHAM STANLEY
LANDSCAPE ARCHITECTS, INC.
LANDSCAPE ARCHITECTURE ■ LAND PLANNING
1376-A CORONADO AVENUE
LONG BEACH, CA 90804
(562) 494-1222
www.grahamstanley.net

CONCEPTUAL LANDSCAPE PLAN

PALMDALE SAVES
TI/ ADDITION
38820 3RD ST E
PALMDALE, CA 93550

LICENSED LANDSCAPE ARCHITECT
Graham M. Stanley, Lic. No. 2498
Signature
January 31, 2026
Renewal Date
Oct. 21, 2025
Date
STATE OF CALIFORNIA

DATE:	OCTOBER 21, 2025
SCALE:	AS SHOWN
DESIGNED BY:	
DRAWN BY:	GS/ SR
JOB:	
CADD FILE:	
SHEET:	L-2

2 OF 2 SHEETS

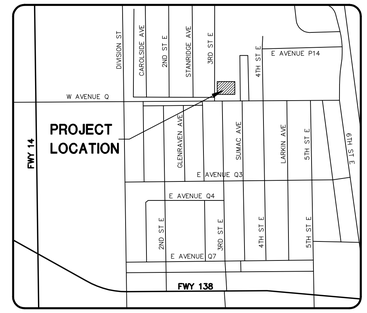
CITY OF PALMDALE

GRADING PLAN

SAVES TENANT IMPROVEMENT AND RELOCATION

PROJECT NO. 874

38820 3RD STREET E, PALMDALE, CALIFORNIA



N

LOCATION MAP
NTS

SHEET INDEX

SHEET NO.	DESCRIPTION	
1	CIVIL TITLE SHEET	C–1
2	DEMOLITION PLAN	D–1
3–5	GRADING PLAN	G–1 TO G–3
6	EROSION CONTROL PLAN	EC–1
7	STRIPING PLAN	STP–1

GENERAL GRADING NOTES:

1) ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE EXCAVATION AND BUILDING CODE OF THE CITY OF PALMDALE AND ANY SPECIAL REQUIREMENTS OF THE PERMIT. ANY VIOLATION WILL RESULT IN THE STOPPAGE OF ALL WORK UNTIL THE VIOLATION IS CORRECTED.

2) THE DEVELOPER'S ENGINEER SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING AND CONSTRUCTION TO INSURE COMPLIANCE WITH THE APPROVED PLANS AND IN ACCORDANCE WITH SECTION 7020.4, ENGINEERED GRADING REQUIREMENTS, OF THE CITY BUILDING CODE.

3) NO WORK SHALL BE STARTED WITHOUT FIRST SCHEDULING A PRECONSTRUCTION MEETING WITH THE PUBLIC WORKS INSPECTOR. TO SET UP A MEETING CALL (661) 267–5255 AT LEAST 48 HOURS BEFORE WORK IS COMMENCED.

4) SLOPES SHALL BE NO STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL AND 3 HORIZONTAL TO 1 VERTICAL WITHIN LMD DEFINED AREAS, OR AS RECOMMENDED BY THE SOILS ENGINEER AND APPROVED BY THE CITY ENGINEER.

5) FILLS SHALL BE COMPACTED THROUGHOUT TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D1557–78.

6) THE DEVELOPER'S SOILS ENGINEER SHALL CERTIFY THAT THE REQUIRED INSPECTIONS AND TESTS HAVE BEEN PERFORMED AND THAT SUCH TESTS COMPLY WITH THE CITY BUILDING CODE.

7) FILL AREAS SHALL BE CLEARED OF ALL VEGETATION AND DEBRIS, SCARIFIED, HAVE SUBDRAINS INSTALLED (IF ANY) AND APPROVED BY THE GRADING INSPECTOR AND SOILS ENGINEER PRIOR TO THE PLACING OF FILL.

8) APPROVED PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ALL IMPACTED PROPERTIES DURING THE GRADING OPERATIONS.

9) DUST SHALL BE CONTROLLED BY WATERING TO THE SATISFACTION OF THE PUBLIC WORKS INSPECTOR/CITY ENGINEER.

10) AFTER ALL WORK, INCLUDING THE INSTALLATION OF DRAINAGE STRUCTURES AND PROTECTIVE DEVICES, HAS BEEN COMPLETED AND REQUIRED REPORTS AND CERTIFICATIONS HAVE BEEN SUBMITTED AND ACCEPTED BY THE CITY, THE PERMITTEE SHALL REQUEST A ROUGH GRADING INSPECTION FROM THE CITY OF PALMDALE ENGINEERING DIVISION.

11) ALL PUBLIC STREETS SHALL BE MAINTAINED FREE OF DUST AND MUD CAUSED BY GRADING OPERATIONS.

12) ALL CESSPOOLS, SEPTIC TANKS, ETC., TO BE ABANDONED SHALL BE FILLED OR REMOVED IN ACCORDANCE WITH THE PLUMBING CODE. CONTACT THE BUILDING & SAFETY DEPARTMENT.

13) ANY EXISTING WELLS TO BE ABANDONED SHALL BE CAPPED IN ACCORDANCE WITH LOS ANGELES COUNTY HEALTH DEPARTMENT REGULATIONS.

14) THE DEVELOPER'S SURVEYOR OR CIVIL ENGINEER OF RECORD SHALL SET GRADE STAKES FOR ALL DRAINAGE DEVICES AND THE CONTRACTOR MUST OBTAIN INSPECTION BEFORE PLACING CONCRETE.

15) NOT LESS THAN ONE FIELD DENSITY TEST WILL BE MADE FOR EACH 2 FEET VERTICAL OF FILL, NOR LESS THAN ONE SUCH TEST FOR EACH 1,000 CUBIC YARDS OF MATERIAL PLACED. LOCATION OF TEST SHALL BE AT THE DISCRETION OF THE PROJECT'S SOIL ENGINEER AND ACCEPTABLE TO THE CITY'S PUBLIC WORKS INSPECTOR.

16) FINISH GRADING WILL BE COMPLETED AND APPROVED, AND SLOPE PLANTING AND IRRIGATION SYSTEMS INSTALLED PER APPROVED PLANS BEFORE FINAL OCCUPANCY IS RELEASED BY THE ENGINEERING DIVISION.

17) ESTIMATED CUT = _____ CUBIC YARDS.

18) ESTIMATED FILL = _____ CUBIC YARDS.

19) THESE QUANTITIES ARE RAW NUMBERS ONLY. SEE EARTHWORK BREAKDOWN ON THIS SHEET FOR ESTIMATED LOSSES DUE TO GRUBBING, PROCESSING AND COMPACTION.

20) FOR IMPORT/EXPORT GREATER THAN 50 CUBIC YARDS THE DEVELOPER/GRADING CONTRACTOR SHALL EITHER PROVIDE A HAULING ROUTE DIAGRAM TO THE PUBLIC WORKS INSPECTOR FOR APPROVAL OR OBTAIN A STOCKPILE PERMIT FROM THE CITY PLANNING DEPARTMENT PRIOR TO THE START OF GRADING OPERATION.

21) FIELD DENSITY WILL BE DETERMINED BY THE SAND–CONE METHOD A.S.T.M. D1556–82. IN FINE–GRAINED COHESIVE SOILS, FIELD DENSITY MAY BE DETERMINED BY THE NUCLEAR DENSITY METHOD A.S.T.M. D2922 & D3017 PROVIDED NOT LESS THAN 10% OF THE REQUIRED DENSITY TESTS UNIFORMLY DISTRIBUTED ARE BY THE SAND–CONE METHOD. THE METHOD OF DETERMINING FIELD DENSITY AND LOCATION AND APPROXIMATE ELEVATION SHALL BE SHOWN IN THE COMPACTION REPORT. OTHER METHODS MAY BE USED IF RECOMMENDED BY THE SOILS ENGINEER AND APPROVED IN ADVANCE BY THE CITY ENGINEER.

22) NO ROCK OR SIMILAR MATERIAL GREATER THAN 6" IN DIAMETER WILL BE PLACED IN THE FILL UNLESS RECOMMENDATIONS FOR SUCH PLACEMENT HAVE BEEN SUBMITTED BY THE SOILS ENGINEER IN ADVANCE AND APPROVED BY THE CITY ENGINEER.

23) DENSITY TESTS WILL BE MADE AT POINTS APPROXIMATELY 1 FOOT BELOW THE FILL SLOPE SURFACE ON THE BASIS OF ONE TEST FOR EACH 1,000 SQUARE FEET OF SLOPE SURFACE BUT NOT LESS THAN ONE TEST FOR EACH 10 FEET VERTICAL OF SLOPE HEIGHT.

24) ALL STORM DRAIN WORK IS TO BE DONE UNDER THE SUPERVISORY CONTROL OF THE ENGINEER OF RECORD. WEEKLY STATUS REPORTS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE PUBLIC WORKS INSPECTOR.

25) CONTOURS SHOWN ON PLAN REPRESENT ORIGINAL GROUND ELEVATIONS PRIOR TO GRADING OPERATIONS. CONTOUR INTERVALS SHOWN SHALL BE APPROPRIATE FOR PLANS; HOWEVER, NO INTERVAL SHALL BE GREATER THAN 2 FEET. PROVIDE A LEGEND FOR FINISHED GRADES.

26) EXPECTED DATE FOR START OF GRADING _____

27) EXPECTED DATE FOR COMPLETION OF GRADING _____

28) THE UNDERSIGNED CIVIL ENGINEER CERTIFIES THIS GRADING WORK WILL BE SUPERVISED IN ACCORDANCE WITH SECTION 7020.4 ENTITLE "ENGINEERED GRADING REQUIREMENTS", OF THE CITY BUILDING CODE.

28 _____

NAME: SURENDER DEWAN RCE # 34559

09/30/2027
EXPIRATION DATE

30) THE SOILS ENGINEER MUST APPROVE ALL GRADING INCLUDING THE STABILITY OF ANY SLOPES CREATED, EXISTING OR REMAINING.

31) COMPLY WITH ALL REQUIREMENTS OF THE GEOTECHNICAL ENGINEERING REPORT DATED APRIL 4, 2025 PREPARED BY GLOBAL GEO–ENGINEERING, INC. (REPORT NO. 10430–04)

32) THE ENGINEER OF RECORD SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR REVIEW AND APPROVAL BY THE CITY.

33) THIS GRADING PLAN HAS BEEN REVIEWED, AND CONFORMS TO RECOMMENDATIONS BY:

_____ _____ _____
NAME OF SOILS ENGINEER SIGNATURE OF SOILS
EXP. DATE & STAMP

34) ALL PADS ARE GRADED FLAT AT ROUGH GRADING WITH DRAINAGE SWALES AT A MINIMUM SLOPE OF 1% TOWARDS THE STREET OR AN APPROVED DESIGNED DRAINAGE OUTLET.

35) THE FRONT DRIVE APPROACH FOR RESIDENTIAL LOTS SHALL NOT EXCEED A SLOPE OF 14%.

36) ALL DRYWELLS SHOWN ON THIS PROJECT SHALL BE MAINTAINED BY THE OWNERS WHERE THEIR LOCATIONS ARE ON PRIVATE PROPERTY OR THROUGH THE CREATION OF A LANDSCAPE MAINTENANCE DISTRICT (LMD) WHEN APPROVED BY THE CITY. DRYWELLS WILL BE REPLACED BY THE OWNERS WHEN THEY CEASE TO DRAIN STANDING SURFACE WATER IN A 24 HOUR PERIOD OR ARE DEEMED TO BE OBSOLETE BY THE CITY ENGINEER. REGULAR MAINTENANCE OF THE DRYWELL SETTLING CHAMBER IS REQUIRED TO ACHIEVE PROPER OPERATION OF THE DRYWELL AND SHALL BE PERFORMED ANNUALLY OR MORE OFTEN DEPENDING UPON ITS LOCATION, AND SHALL BE
PERFORMED BY THE OWNER OR DISTRICT AS APPLICABLE.

37) ALL DRYWELLS SHALL BE CONSTRUCTED PER CITY OF PALMDALE STANDARDS."

38) TEMPORARY EROSION CONTROL PLANS SHALL BE SUBMITTED PRIOR TO OCTOBER 1. THE CONTROL DEVICES SHOWN ON SAID PLANS SHALL BE INSTALLED PRIOR TO NOVEMBER 1 AND MAINTAINED IN OPERABLE CONDITION UNTIL APRIL 15.

39) THE APPLICANT SHALL SUBMIT TO THE ENGINEERING DIVISION A COPY OF THE PERMIT APPLICATION AND RECEIPT MADE TO THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) AS PROOF THAT A SWPPP HAS BEEN APPROVED.

40) APPROVED EROSION CONTROL PLANS ARE VALID FOR THE YEAR OF THE RAINY SEASON IN WHICH THEY ARE APPROVED. A RENEWAL PLAN SHALL BE REQUIRED FOR REVIEW AND APPROVAL BY THE CITY ENGINEER FOR EACH YEAR THEREAFTER UNTIL COMPLETION OF THE PROJECT.

41) IN THE EVENT THE DEVELOPER'S CIVIL ENGINEER, SOILS ENGINEER OR ENGINEERING GEOLOGIST OF RECORD IS CHANGED DURING GRADING THE WORK SHALL BE STOPPED UNTIL A REPLACEMENT HAS BEEN OBTAINED. IT SHALL BE THE DEVELOPER'S RESPONSIBILITY TO NOTIFY THE CITY ENGINEER IN WRITING OF SUCH CHANGE PRIOR TO THE RECOMMENCEMENT OF GRADING OPERATIONS. THE REPLACED ENGINEER SHALL PROVIDE WRITTEN ACCEPTANCE OF ALL WORK PERFORMED TO DATE TO THE CITY ENGINEER.

42) STANDARD HOURS OF OPERATION WITHIN THE CITY ARE 6:30 AM TO 8:30 PM, MONDAY THROUGH SATURDAY. WORK PERFORMED OUTSIDE STANDARD BUSINESS HOURS IS PROHIBITED WITHOUT THE EXPRESSED WRITTEN PERMISSION OF THE CITY ENGINEER.

43) OVERTIME INSPECTION REQUEST ARE GRANTED BASED ON STAFF AVAILABILITY. REQUEST MUST BE RECEIVED 48 HOURS IN ADVANCE AND ADDITIONAL INSPECTION FEES PAID PRIOR TO WORK COMMENCING.

44) ALL UTILITIES SHOWN AS PRIVATE ARE FOR INFORMATION ONLY. REVIEW, APPROVAL AND PERMITTING FOR CONSTRUCTION OF PRIVATE UTILITIES FALLS UNDER THE AUTHORITY OF THE BUILDING OFFICIAL AND OR THE UTILITY PURVEYORS.

TEMPORARY EROSION CONTROL:

1) THE SURFACE OF ALL SLOPES MORE THAN THREE (3) FEET IN VERTICAL HEIGHT AND STEEPER THAN 5:1 SHALL BE COVERED WITH CITY OF PALMDALE APPROVED EROSION CONTROL BLANKETS. INSTALLATION SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS. DEVIATIONS FROM THIS REQUIREMENT SHALL BE SUBMITTED IN WRITING WITH AN ALTERNATIVE PLAN FOR TEMPORARY EROSION CONTROL. THIS PLAN SHALL BE APPROVED BY THE CITY ENGINEER.

2) INSTALLATION OF THE EROSION BLANKETS SHALL BE INSTALLED TO THE SATISFACTION OF THE CITY'S PUBLIC WORKS INSPECTOR PRIOR TO ACCEPTANCE OF ROUGH GRADING AND SHALL BE PER THE MANUFACTURER'S SPECIFICATIONS.

PERMANENT EROSION CONTROL:

1) THE SURFACE OF ALL SLOPES MORE THAN THREE (3) FEET IN VERTICAL HEIGHT SHALL BE COVERED WITH NORTH AMERICAN GREEN S–150 OR APPROVED EROSION CONTROL BLANKETS. INSTALLATION SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS.

2) THE SURFACE OF ALL SLOPES MORE THAN THREE (3) FEET IN VERTICAL HEIGHT SHALL BE PROTECTED AGAINST DAMAGE BY EROSION BY PLANTING WITH GROUND COVER PLANTS. SLOPES EXCEEDING FIFTEEN (15) FEET IN VERTICAL HEIGHT SHALL ALSO BE PLANTED WITH TREES SPACED AT NOT MORE THAN 20 FEET ON CENTER.

3) SLOPES REQUIRED TO BE PLANTED SHALL BE PROVIDED WITH AN APPROVED SYSTEM OF IRRIGATION.

4) ALL REQUIRED LANDSCAPING AND IRRIGATION SHALL CONFORM TO THE CITY OF PALMDALE'S SLOPE EROSION CONTROL LANDSCAPING STANDARDS.

5) ALL PLANTING AND IRRIGATION SHALL BE INSTALLED TO THE SATISFACTION OF THE CITY INSPECTOR PRIOR TO THE ACCEPTANCE OF FINAL GRADING. CONTACT CITY ENGINEERING DIVISION AT (661) 267–5255 FOR INSPECTION WITHIN A MINIMUM OF TWENTY–FOUR (24) HOURS NOTICE. FOR LMD CALL FOR LANDSCAPE INSPECTION AT (661) 267–5346.

PRIVATE ENGINEER'S NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS WAS OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES TO VERIFY THE LOCATION AND ANY DISCREPANCY BETWEEN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR ALSO AGREES TO DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

_____ _____ _____
ENGINEER'S SIGNATURE

LEGEND:

NAT. / CUT	DAYLIGHT LINE, JOIN EXISTING, NAT. IS NATURAL
FF	FINISHED FLOOR ELEVATION
FS	FINISHED SURFACE
FG	FINISHED GRADE
TG	TOP GRATE
INV	INVERT ELEVATION
R	RIDGE LINE
TC	TOP OF CURB
FL	FLOW LINE
RIM	RIM ELEVATION

EARTHWORK QUANTITIES

DESCRIPTION	CUT	FILL
EARTHWORK		
OVEREXCAVATION		
SUBSIDENCE AT 0.15'		
SHRINKAGE		
EXPORT		
TOTAL		

NOTE: INCLUDES SHRINKAGE FACTOR OF 5%

60% SUBMITTAL

SOILS ENGINEER:

GLOBAL GEO–ENGINEERING, INC.

_____ _____
MOHAN B. UPASANI DATE
GEOTECHNICAL ENGINEER, RGE 2301
PROJECT NO. 10430–04
DATED APRIL 4, 2025

APPROVED BY:

_____ _____
CITY OF PALMDALE DATE
GEOLOGIST

NO.	DATE	INIT.	DESCRIPTION	APPD	DATE
			REVISIONS		

BENCH MARK

LA COUNTY PUBLIC WORK SURVEY SECTION

BM # UL4983 ELEV. 2643.38

L&T IN W CB AT NW CORNER SIERRA HWY & AVE Q 46 FT N AND 40 FT W OF CL INT.

PLANS PREPARED BY:

DMS CONSULTANTS, INC.
CIVIL ENGINEERS
12371 Lewis St. #203 Garden Grove CA. 92840 P. 714–740–8840 F. 714–740–8842

UNDER THE SUPERVISION OF

01/13/26
SURENDER M. DEWAN RCE 34559

REGISTERED PROFESSIONAL ENGINEER
SURENDER M. DEWAN
NO. 34559
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA
EXP. 9/30/27

CITY OF PALMDALE
DEPARTMENT OF PUBLIC WORKS

CHECKED BY: _ _____ DATE

RECOMMENDED BY: _ _____ DATE

APPROVED BY: _ _____ DATE

TITLE SHEET
38820 3RD STREET E, PALMDALE, CALIFORNIA

CITY OF PALMDALE
DEPARTMENT OF PUBLIC WORKS

SHEET NO. 1 OF 7

C–1
PLAN NUMBER

DEMOLITION LEGEND & QUANTITIES

SYMBOL	DESCRIPTION
	LIMITS OF DEMOLITION WORK
	REMOVE AND DISPOSE OF CONCRETE FLATWORK & SLAB, A.C. PAVING, ETC.

CONTRACTOR WILL BE RESPONSIBLE TO REMOVE ALL SITE DEBRIS THAT CONFLICTS WITH THE NEW IMPROVEMENTS, INCLUDING, BUT NOT LIMITED TO, VEGETATION, WALL FOUNDATION, TREE STUMPS AND ROOTS AND ABANDON UTILITIES.

DEMOLITION

REMOVE AND DISPOSE OF THE FOLLOWING ITEMS:

1. *AC PAVING*
2. *CONCRETE PAVEMENT*
3. *CONCRETE ALLEY GUTTER*
4. *CONCRETE CURB*
5. *EXISTING WROUGHT IRON FENCE*
6. *EXISTING CHAIN LINK FENCE*
7. *CONCRETE SIDEWALK*
8. *CONCRETE DRIVEWAY*
9. *DRAIN INLET*
10. *CONCRETE CURB & GUTTER*
11. *BOLLARDS*

CONTRACTOR TO CONFIRM FOLLOWING ITEMS TO TURN OVER TO CITY PRIOR TO DEMOLITION

UTILITY METER PULL BOXES

LIGHT STANDARDS/POSTS

SIGN POSTS

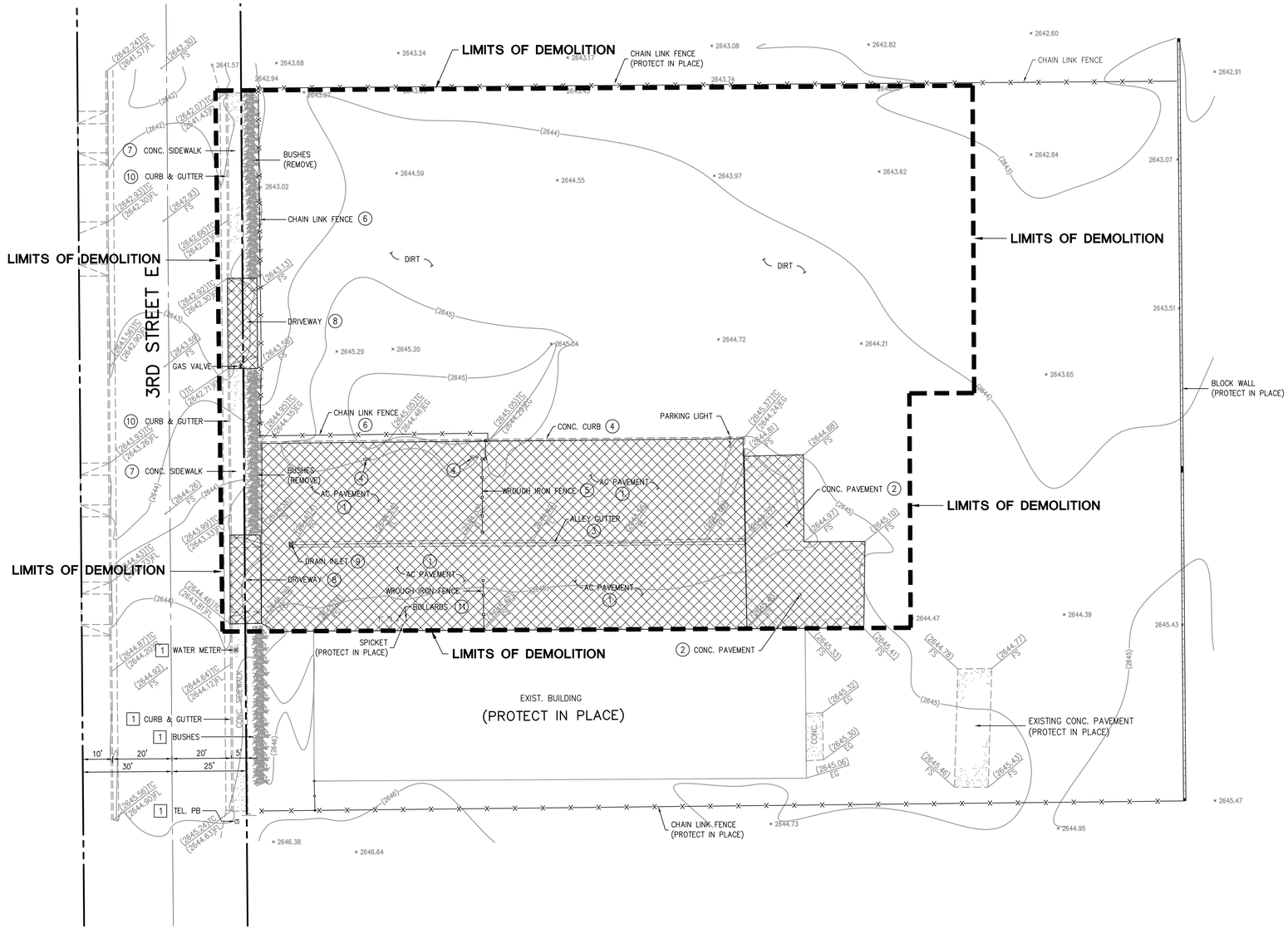
UTILITY WATER/ IRRIGATION/ GAS VALVE

DRAIN INLETS

EXISTING STORM DRAIN PIPES, IF ANY

DISPOSITION NOTE

[1] *PROTECT IN PLACE*



N

SCALE: 1"=20'

60% SUBMITTAL

NO.	DATE	INIT.	DESCRIPTION	APPD	DATE
			REVISIONS		

BENCH MARK

LA COUNTY PUBLIC WORK SURVEY SECTION

BM # UL4983 *ELEV. 2643.38*

L&T IN W CB AT NW CORNER SIERRA HWY & AVE Q 46 FT N AND 40 FT W OF CL INT.

PLANS PREPARED BY:

DMS CONSULTANTS, INC.
CIVIL ENGINEERS
12271 Lewis St. #203 Garden Grove CA. 92840 P. 714-740-8840 F. 714-740-8842
UNDER THE SUPERVISION OF
01/13/26
SURENDER M. DEWAN RCE 34559

REGISTERED PROFESSIONAL ENGINEER SURENDER M. DEWAN NO. 34559 Exp.9/30/27 CIVIL STATE OF CALIFORNIA
EXP. 9/30/27

CITY OF PALMDALE
DEPARTMENT OF PUBLIC WORKS

CHECKED BY: – DATE –
RECOMMENDED BY: – DATE –
APPROVED BY: – DATE –

DEMOLITION PLAN
38820 3RD STREET E, PALMDALE, CALIFORNIA

CITY OF PALMDALE
DEPARTMENT OF PUBLIC WORKS

SHEET NO. 2 OF 7

D—1

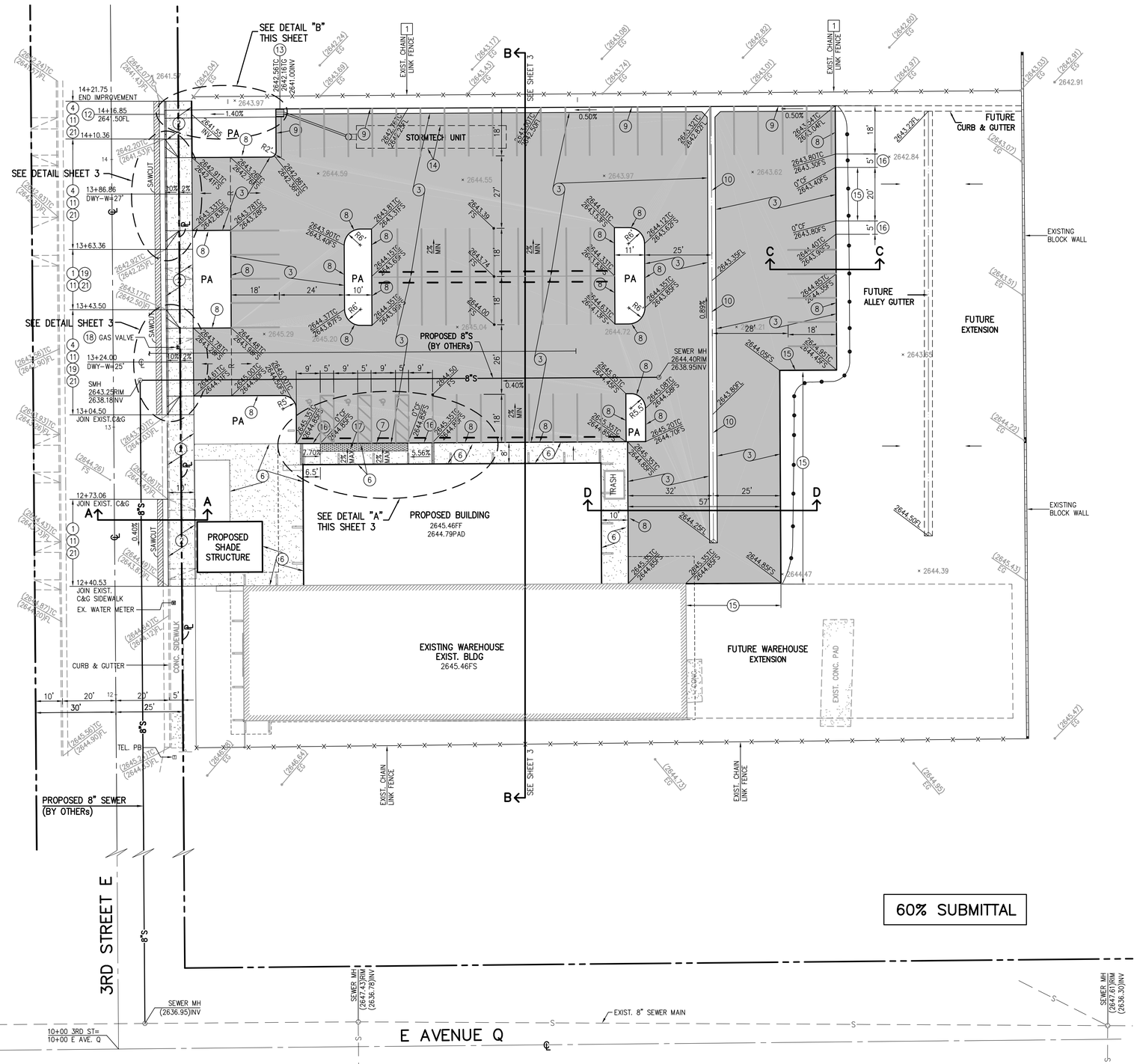
PLAN NUMBER

CONSTRUCTION NOTES

1. CONSTRUCT CURB AND GUTTER TYPE A2-8 PER APWA STANDARD PLAN 120-2.
2. CONSTRUCT SIDEWALK PER APWA STANDARD PLAN 112-2.
3. CONSTRUCT 4" AC OVER 6" AB
4. CONSTRUCT DRIVEWAY PER CITY STANDARD PLAN C-2, MODIFIED PER DETAIL ON SHEET 4.
5. GRIND 1.5" THICK AC AND SLOT PAVE PER SETIOM A-A ON SHEET 4.
6. CONSTRUCT 4" THICK PCC SIDEWALK PER APWA STD. PLAN 111-2
7. CONSTRUCT CURB RAMP PER DETAIL "A" ON SHEET 4.
8. CONSTRUCT CURB TYPE A1-6 PER APWA STANDARD PLAN 120-2.
9. CONSTRUCT CURB AND GUTTER TYPE A2-6 PER APWA STANDARD PLAN 120-2.
10. CONSTRUCT ALLEY GUTTER PER DETAIL ON SHEET 4.
11. CONSTRUCT FULL DEPTH AC 2' WIDE X 1' DEEP.
12. CONSTRUCT PARKWAY DRAIN PER APWA STANDARD PLAN 151-2, S=3'.
13. CONSTRUCT OVERFLOW STRUCTURE PER DETAIL "B" ON SHEET 4.
14. CONSTRUCT MC-3500 STORM TECH UNIT PER DETAIL ON SHEET 5.
15. CONSTRUCT 2"x8" REDWOOD HEADER.
16. CONSTRUCT CURB TRANSITION FROM 6"CF TO 0"CF
17. CONSTRUCT DETACTABLE WARNING SURFACE PER APWA STANDARD PLAN 111-5 DETAIL, SHEET 10 OF 10.
18. ADJUST GAS VALVE COVER TO GRADE (BY OTHERS)
19. REMOVE EXISTING DRIVEWAY.
20. REMOVE EXISTING SIDEWALK.
21. REMOVE EXISTING CURB & GUTTER.

DISPOSITION NOTE

[1] PROTECT IN PLACE



60% SUBMITTAL

N

SCALE: 1"=20'

NO.	DATE	INIT.	DESCRIPTION REVISIONS	APPD	DATE

BENCH MARK

LA COUNTY PUBLIC WORK SURVEY SECTION

BM # UL4983 ELEV. 2643.38

L&T IN W CB AT NW CORNER SIERRA HWY & AVE Q 46 FT N AND 40 FT W OF CL INT.

PLANS PREPARED BY:

DMS CONSULTANTS, INC.
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12371 Lewis St. #203 Garden Grove CA. 92840 P. 714-740-8840 F. 714-740-8842

UNDER THE SUPERVISION OF

SURENDER M. DEWAN RCE 34559 01/13/26

REGISTERED PROFESSIONAL ENGINEER SURENDER M. DEWAN NO. 34559 Exp.9/30/27 CIVIL STATE OF CALIFORNIA

EXP. 9/30/27

CITY OF PALMDALE
DEPARTMENT OF PUBLIC WORKS

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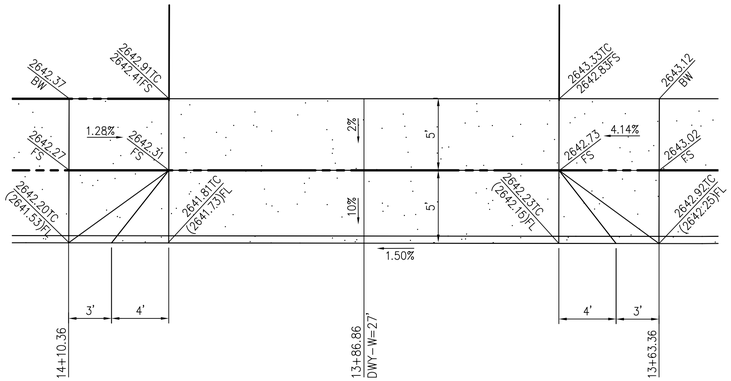
GRADING PLAN
38820 3RD STREET E, PALMDALE, CALIFORNIA

CITY OF PALMDALE
DEPARTMENT OF PUBLIC WORKS

SHEET NO. 3 OF 7

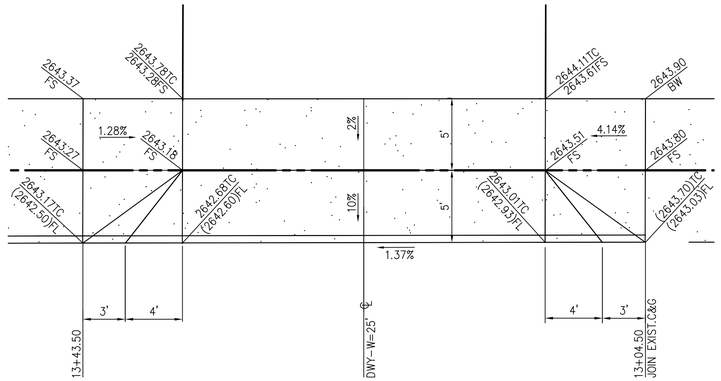
G-1

PLAN NUMBER



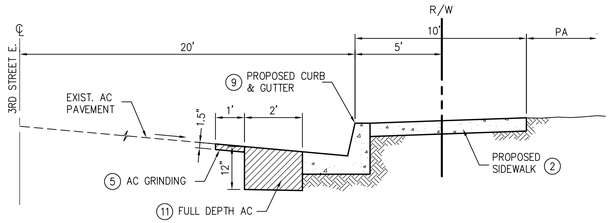
4 DRIVEWAY DETAIL–STA. 13+86.86–W=27'

NOT TO SCALE



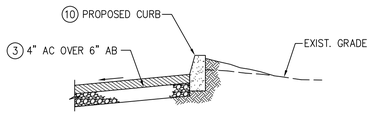
4 DRIVEWAY DETAIL–STA. 13+24.00–W=24'

NOT TO SCALE



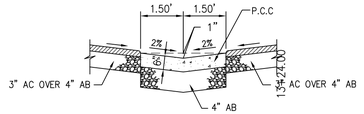
SECTION A–A

(NTS)



SECTION C–C

(NTS)

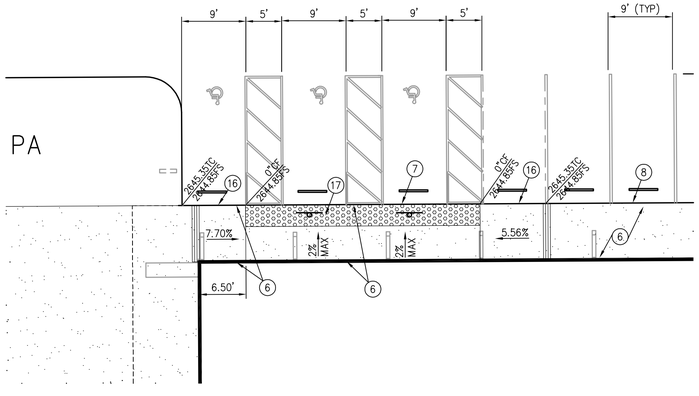


10 ALLEY GUTTER DETAIL

NTS

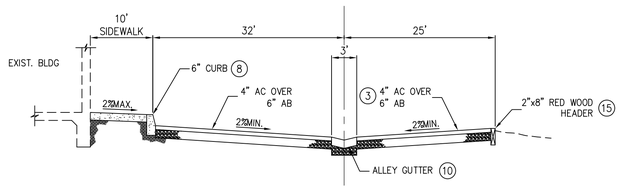
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3. CONSTRUCT 4" AC OVER 6" AB
4. CONSTRUCT DRIVEWAY PER CITY STANDARD PLAN C–2, MODIFIED PER DETAIL ON THIS SHEET.
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14. CONSTRUCT MC–3500 STORM TECH UNIT PER DETAIL ON SHEET 5.
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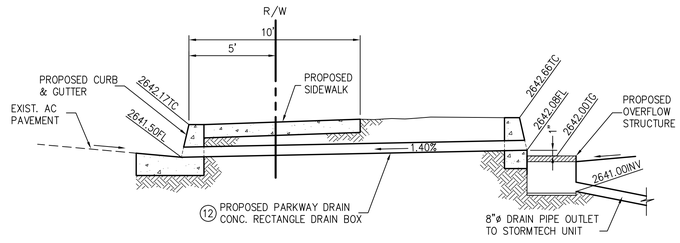
7 CURB RAMP DETAIL

NOT TO SCALE



SECTION D–D

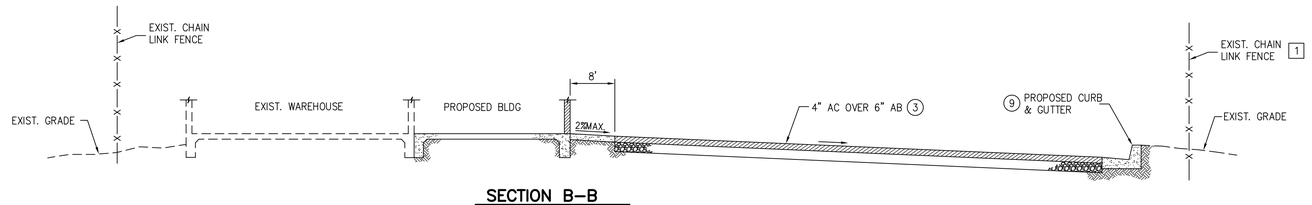
(NTS)



13 DETAIL "B"

(NTS)

60% SUBMITTAL



SECTION B–B

(NTS)

NO.	DATE	INIT.	DESCRIPTION	APPD	DATE
			REVISIONS		

BENCH MARK

LA COUNTY PUBLIC WORK SURVEY SECTION

BM # UL4983 *ELEV. 2643.38*

L&T IN W CB AT NW CORNER SIERRA HWY & AVE Q 46 FT N AND 40 FT W OF CL INT.

PLANS PREPARED BY:

DMS CONSULTANTS, INC.
CIVIL ENGINEERS
1221 Lewis St. #103 Garden Grove Ca. 92843 P. 714-740-8840 F. 714-740-8842

UNDER THE SUPERVISION OF

SURENDER M. DEWAN 01/13/26

SURENDER M. DEWAN RCE 34559

REGISTERED PROFESSIONAL ENGINEER
SURENDER M. DEWAN
NO. 34559
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA

EXP. 9/30/27

CITY OF PALMDALE
DEPARTMENT OF PUBLIC WORKS

CHECKED BY: – DATE

RECOMMENDED BY: – DATE

APPROVED BY: – DATE

GRADING DETAILS AND SECTIONS
38820 3RD STREET E, PALMDALE, CALIFORNIA

CITY OF PALMDALE
DEPARTMENT OF PUBLIC WORKS

SHEET NO. 4 OF 7

G–2

PLAN NUMBER

STORMTECH GENERAL NOTES

1. STORMTECH LLC ("STORMTECH") REQUIRES INSTALLING CONTRACTORS TO USE AND UNDERSTAND STORMTECH'S LATEST MC-3500 INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION.

2. STORMTECH OFFERS INSTALLATION CONSULTATIONS TO INSTALLING CONTRACTORS. CONTACT OUR TECHNICAL SERVICE DEPARTMENT OR LOCAL STORMTECH REPRESENTATIVE AT LEAST 30 DAYS PRIOR TO SYSTEM INSTALLATION TO ARRANGE A PRE-INSTALLATION CONSULTATION. OUR REPRESENTATIVES CAN THEN ANSWER QUESTIONS OR ADDRESS COMMENTS ON THE STORMTECH CHAMBER SYSTEM AND INFORM THE INSTALLING CONTRACTOR OF THE MINIMUM INSTALLATION REQUIREMENTS BEFORE BEGINNING THE SYSTEM'S CONSTRUCTION. CALL **860-529-8188** TO SPEAK TO A TECHNICAL SERVICE REPRESENTATIVE OR VISIT **WWW.STORMTECH.COM** TO RECEIVE A COPY OF OUR INSTALLATION INSTRUCTIONS.

3. STORMTECH REQUIREMENTS FOR SYSTEMS WITH PAVEMENT DESIGN (ASPHALT, CONCRETE PAVERS, ETC.): MINIMUM COVER IS 24" [610 mm] NOT INCLUDING PAVEMENT; MAXIMUM COVER IS 6.5' [1.98 m] INCLUDING PAVEMENT. FOR INSTALLATIONS THAT DO NOT INCLUDE PAVEMENT, WHERE RUTTING FROM VEHICLES MAY OCCUR, MINIMUM REQUIRED COVER IS 30" [762 mm], MAXIMUM COVER IS 6.5' [1.98 m].

4. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH THE BEARING CAPACITY OF THE CHAMBER FOUNDATION MATERIALS TO THE DESIGN ENGINEER.

5. AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE (FILTER FABRIC) MUST BE USED AS INDICATED IN THE PROJECT PLANS.

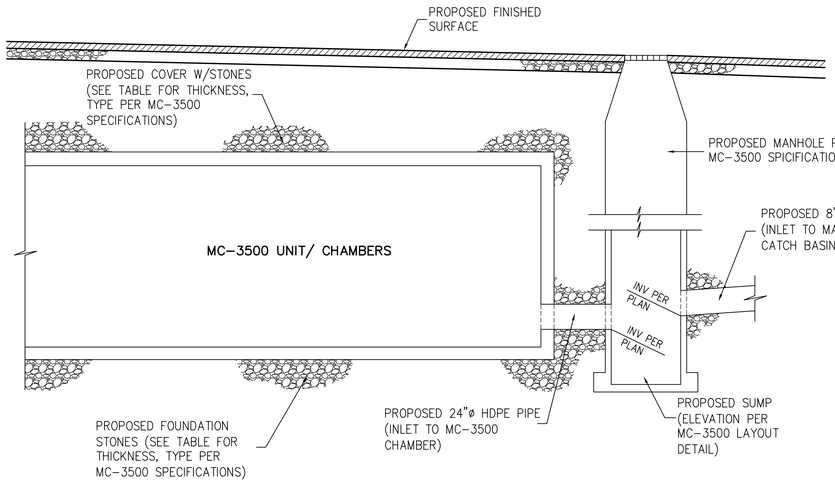
6. STONE PLACEMENT BETWEEN CHAMBERS ROWS AND AROUND PERIMETER MUST FOLLOW INSTRUCTIONS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH MC-3500 INSTALLATION INSTRUCTIONS.

7. BACKFILLING OVER THE CHAMBERS MUST FOLLOW REQUIREMENTS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH MC-3500 INSTALLATION INSTRUCTIONS.

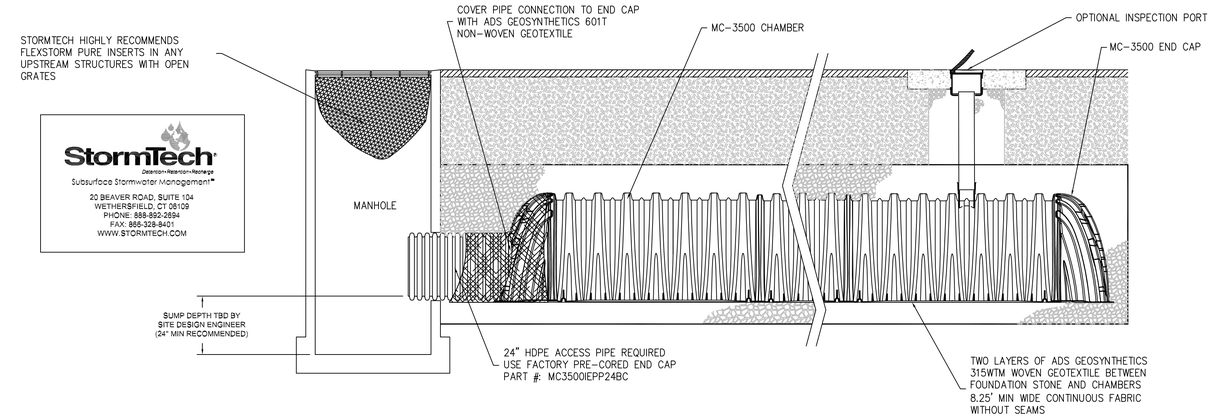
8. THE CONTRACTOR MUST REFER TO STORMTECH MC-3500 INSTALLATION INSTRUCTIONS FOR A TABLE OF ACCEPTABLE VEHICLE LOADS AT VARIOUS DEPTHS OF COVER. THIS INFORMATION IS ALSO AVAILABLE ON THE STORMTECH WEBSITE: **WWW.STORMTECH.COM**. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING VEHICLES THAT EXCEED STORMTECH REQUIREMENTS FROM TRAVELING ACROSS OR PARKING OVER THE STORMWATER SYSTEM. TEMPORARY FENCING, WARNING TAPE AND APPROPRIATELY LOCATED SIGNS ARE COMMONLY USED TO PREVENT UNAUTHORIZED VEHICLES FROM ENTERING SENSITIVE CONSTRUCTION AREAS.

9. THE CONTRACTOR MUST APPLY EROSION AND SEDIMENT CONTROL MEASURES TO PROTECT THE STORMWATER SYSTEM DURING ALL PHASES OF SITE CONSTRUCTION PER LOCAL CODES AND DESIGN ENGINEER'S SPECIFICATIONS.

10. **STORMTECH PRODUCT WARRANTY IS LIMITED.** CONTACT STORMTECH FOR WARRANTY INFORMATION.



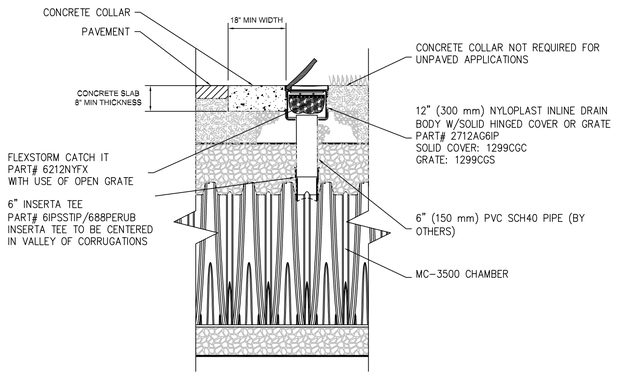
SEE MC-3500 LAYOUT DETAIL FOR ELAVATIONS
SEE STORMTECH SYSTEM DATA TABLE FOR SIZE, ELEVATIONS, ETC.



StormTech
Detention • Retention • Recharge
Subsurface Stormwater Management™
20 BEAVER ROAD, SUITE 104
WETHERSFIELD, CT 06109
PHONE: 888-892-2694
FAX: 866-328-8401
WWW.STORMTECH.COM

MC-3500 ISOLATOR ROW DETAIL

NTS



MC-3500 6" INSPECTION PORT DETAIL

NTS

MC-3500 STORMWATER CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-3500 OR APPROVED EQUAL.

2. CHAMBERS SHALL BE MADE FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.

3. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.

4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.

5. ONLY CHAMBERS THAT ARE APPROVED BY THE ENGINEER WILL BE ALLOWED. THE CONTRACTOR SHALL SUBMIT (3 SETS) OF THE FOLLOWING TO THE ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:

-- A STRUCTURAL EVALUATION BY A REGISTERED STRUCTURAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET.

-- STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL CROSS SECTION IS BASED.

6. THE INSTALLATION OF CHAMBERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LATEST INSTALLATION INSTRUCTIONS.

STORMTECH SYSTEM	UNIT
MAX. LENGTH	55.92 FT.
MAX. WIDTH	8.42 FT.
EACH CHAMBER SIZE	45"x77"
NO. OF CHAMBERS	7
NO. OF END CAPS	2
BED SIZE	621 SQFT
STORAGE VOLUME (REQ.)	1420 CF
STORAGE VOLUME (PROVIDED)	1515 CF
PROPOSED ELEVATIONS	
TOP OF STONE	2638.50
TOP OF CHAMBER	2637.50
BOTTOM OF CHAMBER	2633.75
BOTTOM OF STONE	2633.00
INVERT AT END CAP	2633.75
INVERT AT CATCH BASIN	2641.00

MC-3500 STORMTECH SYSTEM DATA

NTS

60% SUBMITTAL

NO.	DATE	INIT.	DESCRIPTION	APPD	DATE
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BENCH MARK

LA COUNTY PUBLIC WORK SURVEY SECTION

BM # UL4983 *ELEV. 2643.38*

L&T IN W CB AT NW CORNER SIERRA HWY & AVE Q 46 FT N AND 40 FT W OF CL INT.

PLANS PREPARED BY:

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CIVIL ENGINEERS
1371 Lewis St. #203 Garden Grove CA. 92842 P. 714-740-8840 F. 714-740-8842
UNDER THE SUPERVISION OF
01/13/26
SURENDER M. DEWAN RCE 34559

REGISTERED PROFESSIONAL ENGINEER
SURENDER M. DEWAN
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STATE OF CALIFORNIA
EXP. 9/30/27

CITY OF PALMDALE
DEPARTMENT OF PUBLIC WORKS

CHECKED BY: _ DATE
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GRADING DETAILS AND SECTIONS
38820 3RD STREET E, PALMDALE, CALIFORNIA

CITY OF PALMDALE
DEPARTMENT OF PUBLIC WORKS

SHEET NO. 5 OF 7

G-3

PLAN NUMBER

EROSION CONTROL NOTES

A) IN CASE OF EMERGENCY CALL MR. _____

AT _____, 24 HOURS _____

B) THE UNDERSIGNED CIVIL ENGINEER WILL REVIEW EROSION CONTROL WORK AND CERTIFY THAT WORK IS IN ACCORDANCE WITH THE APPROVED PLANS.

MR SURENDER DEWAN RCE 34559 — 01/13/26 DATE

C) A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. (NOVEMBER 1–APRIL 15) NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR ANY DAMAGED EROSION CONTROL MEASURES WHEN RAIN IS IMMINENT.

D) DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE CITY INSPECTOR.

E) ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY

F) AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS AND DESILTING BASINS AND THE BASINS PUMPED DRY. A GRADED SLOPE SURFACE PROTECTION MEASURES DAMAGED DURING A RAINSTORM SHALL ALSO BE IMMEDIATELY REPAIRED.

G) FILL SLOPES AT THE TRACT PERIMETER MUST DRAIN AWAY FROM THE TOP OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.

H) A GUARD SHALL BE POSTED ON THE SITE WHENEVER THE DEPTH OF WATER IN ANY DEVICES EXCEED TWO

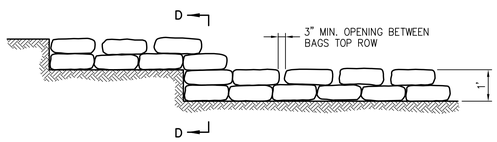
PLACEMENT OF DEVICES TO REDUCE EROSION DAMAGE WITHIN THE TRACT MUST BE SHOWN ON THE PLAN.

THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE THE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.

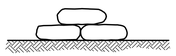
I) ALL LOOSE SOIL AND DEBRIS WHICH MAY CREATE A POTENTIAL HAZARD TO OFFSITE PROPERTY SHALL BE REMOVED FROM THE SITE AS DIRECTED BY THE INSPECTOR.

THE UNDERSIGNED CIVIL ENGINEER ACCEPTS RESPONSIBILITY FOR PROFESSIONAL INSPECTION

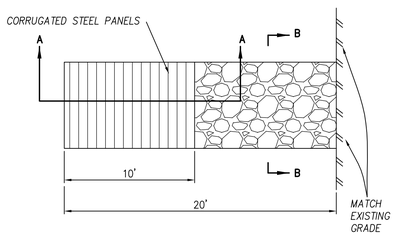
MR SURENDER DEWAN RCE 34559 — 01/13/26 DATE



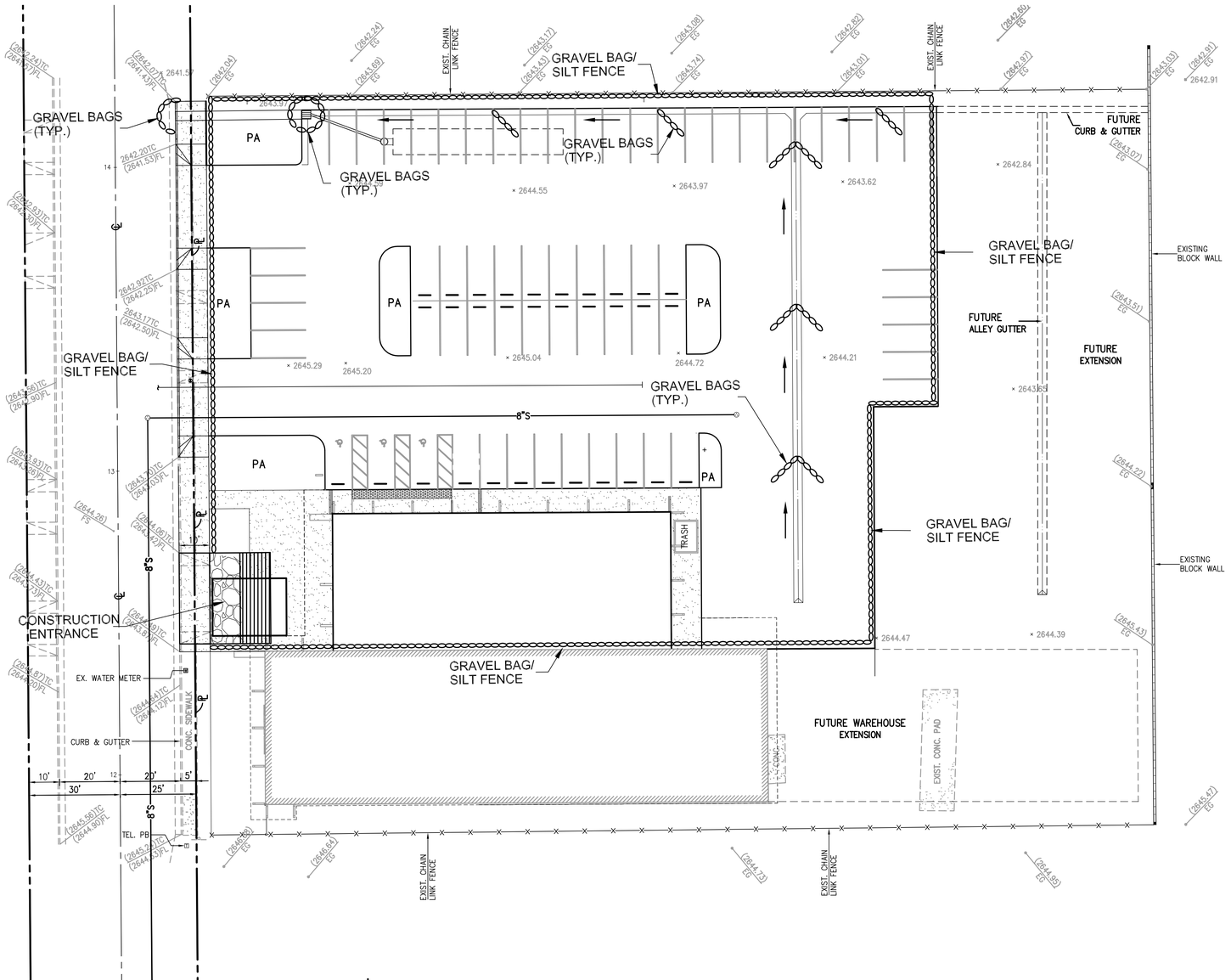
TYPICAL SANDBAG DETAIL

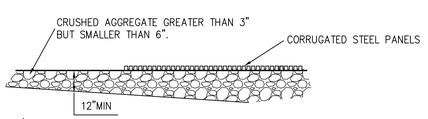


SECTION D–D

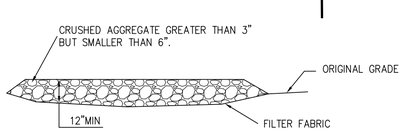


STABILIZED CONSTRUCTION ENTRANCE DETAIL

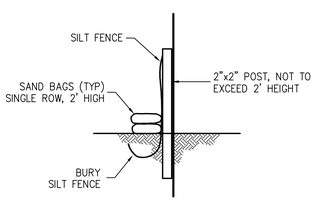




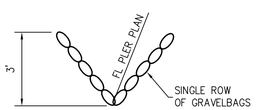
SECTION A–A
NTS



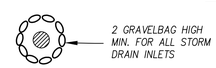
SECTION B–B
NTS



SILT FENCE DETAIL



"V" ALIGNMENT DETAIL
NTS



GRAVELBAG AT STORM DRAIN INLET DETAIL
NTS

N

SCALE: 1"=20'

60% SUBMITTAL

NO.	DATE	INIT.	DESCRIPTION REVISIONS	APPD	DATE

BENCH MARK

LA COUNTY PUBLIC WORK SURVEY SECTION

BM # UL4983 ELEV. 2643.38

L&T IN W CB AT NW CORNER SIERRA HWY & AVE Q 46 FT N AND 40 FT W OF CL INT.

PLANS PREPARED BY:

DMS CONSULTANTS, INC.
CIVIL ENGINEERS
12371 Lewis St. #203 Garden Grove CA. 92840 P. 714-740-8840 F. 714-740-8842

UNDER THE SUPERVISION OF

SURENDER M. DEWAN RCE 34559 — 01/13/26

REGISTERED PROFESSIONAL ENGINEER SURENDER M. DEWAN NO. 34559 Exp.9/30/27 CIVIL STATE OF CALIFORNIA

EXP. 9/30/27

CITY OF PALMDALE
DEPARTMENT OF PUBLIC WORKS

CHECKED BY: _ DATE

RECOMMENDED BY: _ DATE

APPROVED BY: _ DATE

EROSION CONTROL PLAN
38820 3RD STREET E, PALMDALE, CALIFORNIA

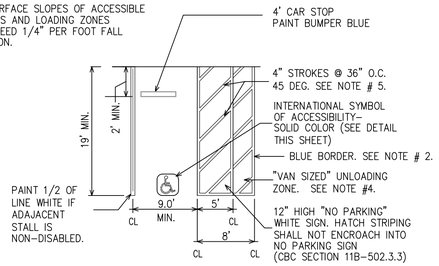
CITY OF PALMDALE
DEPARTMENT OF PUBLIC WORKS

SHEET NO. 6 OF 7

EC–1

PLAN NUMBER

NOTE: THE SURFACE SLOPES OF ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL NOT EXCEED 1/4" PER FOOT FALL IN ANY DIRECTION.

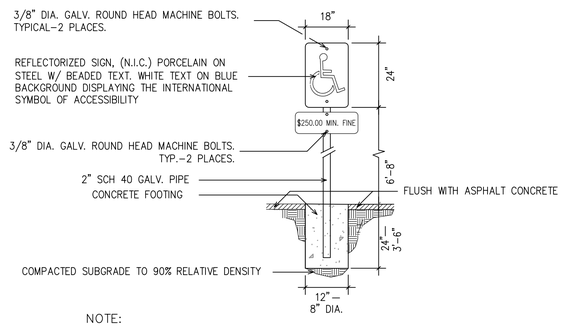


P1 TYPICAL PARKING ACCESS STALL STRIPING

NOT TO SCALE

NOTE:

1. ALL WORK SHALL COMPLY WITH "AMERICANS WITH DISABILITIES ACT (ADA)"/CBC
2. ALL STRIPING AND PAINTED SYMBOLS SHALL BE AN APPROVED BLUE PAINT.
3. REFER TO 'TYPICAL STALL STRIPING' & 'WHEEL STOP' (WHEEL BUMPER) DETAILS FOR INSTALLATION.
4. REFER TO STRIPING PLAN FOR DESIGNATED 'VAN-SIZED' SPACE. PROVIDE 8' WIDE UNLOADING ZONE.
5. HATCH STRIPING TO BE OF CONTRASTING COLOR FROM SURFACE MATERIAL (BLUE ON CONC. AND WHITE ON ASPHALT)

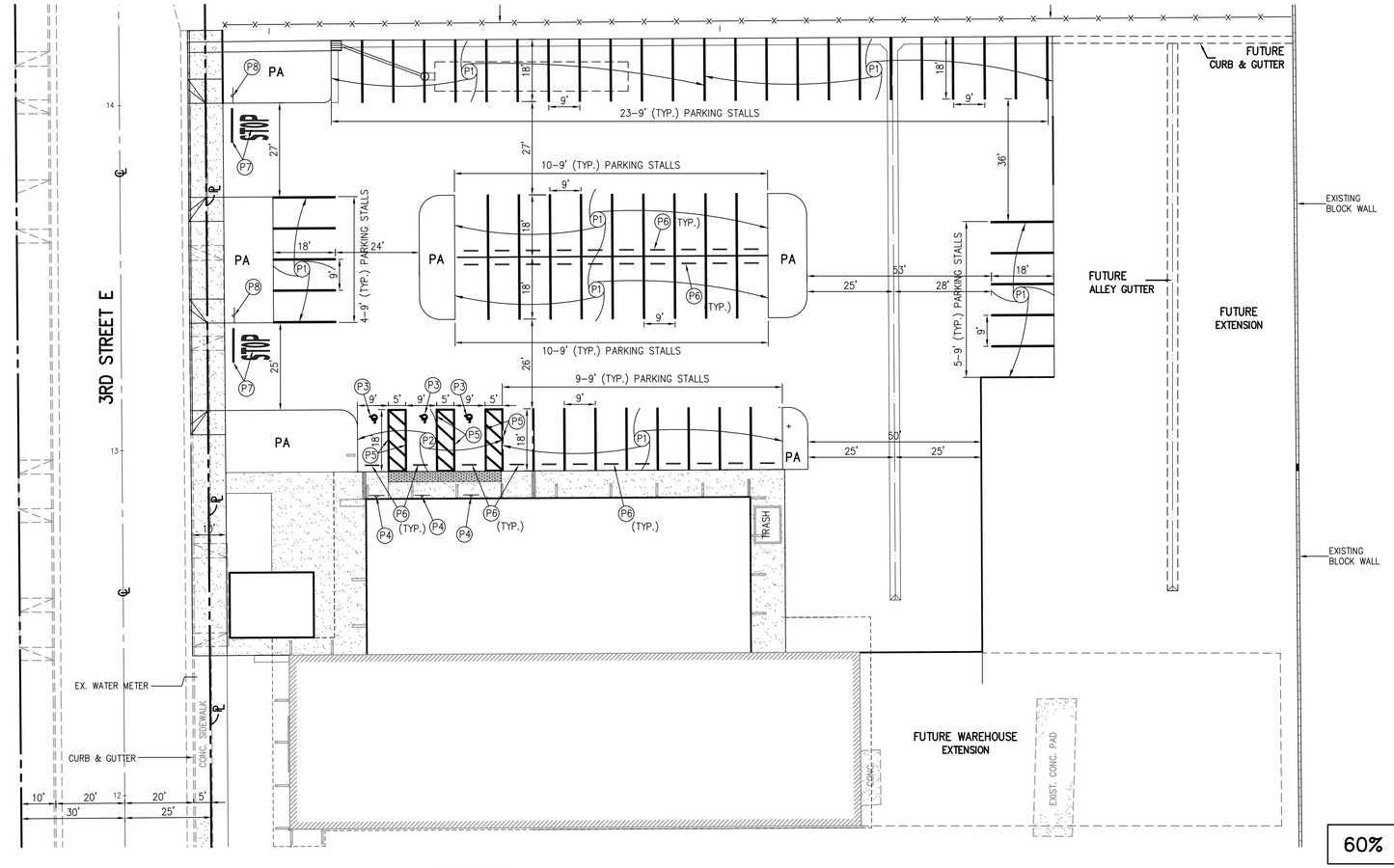


NOTE:

1. NEW POSTS TO BE FURNISHED AND INSTALLED BY CONTRACTOR
2. SIGN PANELS TO BE FURNISHED AND INSTALLED BY CONTRACTOR

P4 ACCESS SIGNS

NOT TO SCALE



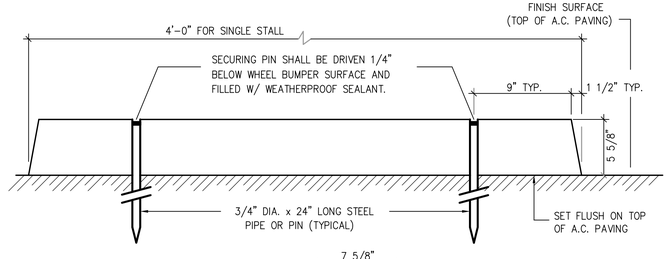
60% SUBMITTAL

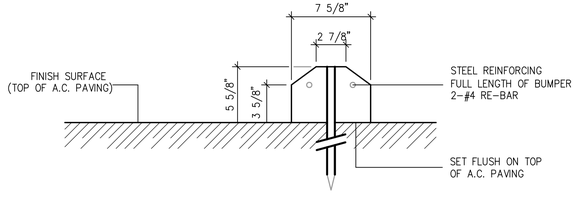
CONSTRUCTION NOTES (STRIPING)

- (P1) INSTALL STANDARD PARKING STALL PER DETAIL THIS SHEET.
- (P2) INSTALL DISABLED ACCESS PARKING STALL PER DETAIL THIS SHEET.
- (P3) INSTALL INTERNATIONAL SYMBOL OF ACCESSIBILITY PER DETAIL THIS SHEET.
- (P4) INSTALL DISABLED ACCESS PARKING SIGN PER DETAIL THIS SHEET.
- (P5) INSTALL 4" BLUE STRIPES, 36"O.C., 45 DEGREES.
- (P6) INSTALL WHEEL STOP PER DETAIL THIS SHEET.
- (P7) INSTALL STOP BAR AND LEGEND.
- (P8) INSTALL STOP SIGN ON POST.

N

SCALE: 1"=20'



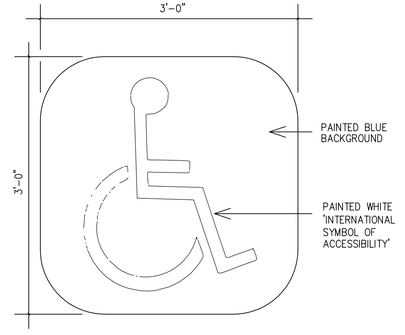


P6 PARKING LOT WHEEL STOP DETAIL

NOT TO SCALE

NOTE:

1. INSTALL CONCRETE WHEEL BUMPER (CAR STOP) WHERE INDICATED BY PLANS. SEE PARKING STALL STRIPING DETAIL FOR PLACEMENT LOCATION.
2. SECURING PIN SHALL BE DRIVEN 1/4" BELOW WHEEL BUMPER (CAR STOP) SURFACE AND FILLED FLUSH WITH WEATHERPROOF SEALANT.
3. CONCRETE WHEEL BUMPER (CAR STOP) SHALL BE INSTALLED FLUSH WITH FINISH SURFACE AND SHALL BE SECURELY FASTENED.
4. REINSTALL EXISTING AND REPLACE WITH NEW ANY BROKEN OR DAMAGED WHEEL STOP.



NOTE:

1. THE CONTRACTOR SHALL PAINT THE SYMBOLS IN ALL ACCESS STALLS

P3 INTERNATIONAL SYMBOL OF ACCESSIBILITY

NOT TO SCALE

NO.	DATE	INIT.	DESCRIPTION REVISIONS	APPD	DATE

BENCH MARK

LA COUNTY PUBLIC WORK SURVEY SECTION

BM # UL4983 *ELEV. 2643.38*

L&T IN W CB AT NW CORNER SIERRA HWY & AVE Q 46 FT N AND 40 FT W OF CL INT.

PLANS PREPARED BY:

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EXP. 9/30/27

CITY OF PALMDALE
DEPARTMENT OF PUBLIC WORKS

CHECKED BY: _ _ DATE

RECOMMENDED BY: _ _ DATE

APPROVED BY: _ _ DATE

STRIPING PLAN
38820 3RD STREET E, PALMDALE, CALIFORNIA

CITY OF PALMDALE
DEPARTMENT OF PUBLIC WORKS

SHEET NO. 7 OF 7

STP-1

PLAN NUMBER