GENERAL NOTES

1. ON-SITE VERIFICATION OF ALL DIMENSIONS AND DETAILS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR FOR HIS INDIVIDUAL WORK. THE OWNER OR ARCHITECT SHALL BE NOTIFIED IF ANY DISCREPANCIES ARE FOUND PRIOR TO COMMENCING ANY WORK. THE RESPONSIBILITY FOR WORK COMPLETED WITHOUT PROPER NOTIFICATION SHALL BE BORNE BY THE INDIVIDUAL CONTRACTOR INVOLVED.
2. THE CONTRACT DOCUMENTS INDICATE THE EXTENT AND APPROXIMATE LOCATION OF ELEMENTS OF THE BUILDING AND SITE. ALL CONDITIONS, LOCATIONS, DEVICES AND ELEMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING THE WORK.
3. ALL WORK PERFORMED IN CONNECTION WITH THESE CONTRACT DOCUMENTS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA). ALL APPLICABLE STATE AND LOCAL CODES, ORDINANCES, AND ZONING REGULATIONS IN EFFECT AT THE TIME OF CONSTRUCTION. THIS PROJECT SHALL COMPLY WITH TITLE 24, 2025 CBC, CMC, CPC, CFC, CEC BASED ON THE 2025 CALIFORNIA ENERGY STANDARDS.
4. IT SHALL BE UNDERSTOOD THAT THE INTENT OF THESE CONSTRUCTION DOCUMENTS IS TO CONSTRUCT THE FACILITY IN ACCORDANCE WITH THE APPLICABLE CODES AND ORDINANCES. SHOULD ANY CONDITION BE UNCOVERED OR DEVELOP DURING THE EXECUTION OF THESE DOCUMENTS, WHICH IS NOT DEFINED HEREIN, THE CONTRACTOR SHALL CEASE WORK AND NOTIFY THE ARCHITECT AT ONCE.
5. THE TYPICAL DETAILS SHOWN IN THESE PLANS SHALL APPLY IN ALL SIMILAR CASES UNLESS SPECIFICALLY NOTED OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS INDICATED FOR OTHER SIMILAR WORK AND, OR APPLICABLE INDUSTRY PRACTICE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION OF INSTALLATION, INSPECTION, AND FINAL APPROVAL OF ALL UTILITIES.
7. VERIFY ALL DIMENSIONS, EXISTING CONDITIONS, AND METHODS OF CONSTRUCTION PRIOR TO START OF ANY WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
8. IT IS NOT THE INTENT OF THESE CONTRACT DOCUMENTS TO SEPARATE THE WORK INTO SUBTRADE DIVISIONS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO DIVIDE THE WORK AND ORGANIZE ALL WORK AS REQUIRED TO COMPLETE THE WORK AS INTENDED BY THESE DOCUMENTS.
9. SITE DEVELOPMENT AND GRADING SHALL PROVIDE ACCESS TO PRIMARY ENTRANCES AND NORMAL PATHS OF TRAVEL, AND SHALL INCORPORATE PEDESTRIAN RAMPS, CURB RAMPS, ETC. ALL RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12, OR AS NOTED ON THESE CONSTRUCTION DOCUMENTS. ANY PATH OF TRAVEL SHALL BE CONSIDERED A RAMP IF IT'S SLOPE IS GREATER THAN 1 FT. RISE IN 20 FT. RUN (5%).
10. EACH PARKING FACILITY WHERE PARKING IS PROVIDED FOR THE PUBLIC, GUESTS OR EMPLOYEES SHALL PROVIDE ACCESSIBLE PARKING AND LOADING STALLS DESIGNATED SPECIFICALLY FOR PERSONS WITH DISABILITIES.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE COMMENCEMENT OF WORK. HE SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION, AND SHALL NOTIFY UTILITY COMPANIES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION (UNDERGROUND SERVICE ALERT 811)
12. EACH ACCESSIBLE PARKING SHALL BE IDENTIFIED BY A REFLECTORIZED SIGN PERMANENTLY POSTED IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE, CONSISTING OF A PROFILE VIEW OF A WHEELCHAIR OCCUPANT IN WHITE ON A BLUE BACKGROUND. THE SIGN SHALL NOT BE SMALLER THAN 70 SQ. IN. IN AREA AND, WHEN POSTED IN A PATH OF TRAVEL, SHALL BE A MINIMUM HEIGHT OF 80 INCHES FROM THE BOTTOM OF THE SIGN TO THE PARKING SPACE FINISH GRADE, UON. IN ADDITION, A SIGN, AS SPECIFIED IN TITLE 24 ACCESSIBILITY STANDARDS, SHALL BE POSTED IN A CONSPICUOUS PLACE, AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES, OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE. SAID SIGNS SHALL BE NOT LESS THAN 11 INCHES X 22 INCHES IN SIZE WITH LETTERING NOT LESS THAN 1 INCH HIGH.
13. PROVIDE A CLEAR AND LEVEL LANDING ON EACH SIDE OF AN EXIT DOOR. THE LANDING SHALL BE 48 INCHES IN LENGTH WHERE THE DOOR SWINGS AWAY FROM THE LANDING, AND 60 INCHES IN LENGTH IN THE DIRECTION OF DOOR SWING AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN THE CLOSED POSITION.
14. GENERAL DEMOLITION: WHENEVER EXISTING FACILITIES OR MATERIALS ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF WORK COVERED BY THE DRAWINGS AND SPECIFICATIONS, SAID FACILITIES AND MATERIALS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SAID FACILITIES OR MATERIALS SHALL BE EQUAL TO OR BETTER THAN THE ORIGINAL FACILITIES OR MATERIALS. THE FINISH PRODUCT SHALL BE SUBJECT TO THE APPROVING JURISDICTION.
15. NO WORK SHALL COMMENCE AT THE PROJECT SITE BEFORE A BUILDING PERMIT IS FULLY EXECUTED AND AVAILABLE FOR POSTING AT THE JOB SITE.
16. CONSTRUCTION LIMITS: CONTRACTOR AND SUB-CONTRACTORS, WORKERS AND OTHER PERSONNEL RELATED TO THIS SCOPE OF WORK, SHALL BE CONFINED WITH THE AREAS DESIGNATED AS CONSTRUCTION LIMITS AS INDICATED BY THESE DRAWINGS AND RELATED AREAS. AREAS BEYOND THIS SCOPE OF WORK SHALL BE CONSTRUCTION LIMITS, AND THEIR USE SHALL BE PROHIBITED WITHOUT PRIOR AUTHORIZATION OF APPROVING JURISDICTION THE GENERAL CONTRACTOR SHALL VERIFY THESE LIMITS AND BE RESPONSIBLE TO INFORM THE APPROPRIATE PERSONNEL AND ENFORCE THESE LIMITS.
17. PROVIDE CONTINUOUS 18GA. X REQUIRED WIDTH (6" MIN.) FLAT BACKING STRAP AT WALLS WITH WALL MOUNTED EQUIPMENT, CASEWORK, AND/OR ACCESSORIES - TYPICAL UNLESS OTHERWISE NOTED.
18. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS AND THE EXISTING FIELD CONDITIONS, AND SHALL AT ONCE REPORT TO THE ARCHITECT ANY ERROR, INCONSISTENCY, OR OMISSION HE MAY DISCOVER. THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK AT ANY TIME WITHOUT APPROVED CONTRACT DOCUMENTS OR WHERE REQUIRED, APPROVED SHOP DRAWINGS, PRODUCT LITERATURE, DATA, SAMPLES OR INSTALLATION INSTRUCTIONS.
19. THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT, WHERE APPLICABLE, FOR ANY WORK DONE WITHIN THE RIGHT-OF-WAY OR EASEMENTS FROM THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS IN ADVANCE OF COMMENCEMENT OF THE WORK OR AS REQUIRED BY SAID PERMITS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, FITTING, OR PATCHING THAT MAY BE REQUIRED TO COMPLETE THE INTENT OF THESE CONSTRUCTION DOCUMENTS, TO MAKE ITS SEVERAL PARTS FIT TOGETHER PROPERLY. THE CONTRACTOR SHALL PATCH ARCHITECTURAL FINISHES AS NECESSARY TO ACCOMPLISH WORK DEFINED IN STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND ARCHITECTURAL DRAWINGS. EXISTING FIELD CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AND ACCEPTED AS CONDITIONS OF THIS SCOPE OF WORK.
21. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PG&E AND/OR SERVICE PROVIDER FOR ANY NEW SERVICE INSTALLATIONS. THE CONTRACTOR SHALL COORDINATE THE SHUT DOWN OF THE FACILITIES WITH THE OWNER FOR AS MINIMAL DURATION AS POSSIBLE. INTERCEPT THE EXISTING SERVICE CONDUIT, EXTEND IT TO NEW TRANSFORMERS AND PAD (TO BE INSTALLED BY CONTRACTOR) AND EXTEND SECONDARY CONDUITS TO THE NEW SWITCHBOARD. COORDINATE WITH THE OWNER TO VERIFY LOCATION. PROVIDE TRAFFIC BARRIER POSTS PER PG&E REQUIREMENTS.
22. CONTRACTOR SHALL FLUSH ALL WATER, SEWER, AND DRAIN LINES PRIOR TO HOOK UP.
23. DIMENSIONS SHALL BE MEASURED TO FACE OF FRAMING, U.O.N.
24. NO DRAINAGE ACROSS OR ONTO ADJACENT PROPERTY. PROVIDE 2% SLOPE AWAY FROM THE BUILDING FOR 10'-0" AT ALL SIDES.
25. DO NOT SCALE THE DRAWINGS.

VICINITY MAP

CITY OF LATHROP

LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA 95330

BID SET
6/23/2026

ABBREVIATIONS

ACOUS	ACOUSTICAL	LDG	LANDING
ACT	ACOUSTICAL CEILING TILE	LT	LIGHT
AD	AREA DRAIN	MEMB	MEMBRANE
ADJ	ADJUSTABLE	MFR	MANUFACTURER
AFF	ABOVE FINISH FLOOR	MIN	MINIMUM
ALT	ALTERNATE	MISC	MISCELLANEOUS
ARCH	ARCHITECT	MO	MASONRY OPENING
B.O.	BOTTOM OF	MTD	MOUNTED
BD	BOARD	MTL	METAL
BET	BETWEEN	(N)	NEW
BLKG	BLOCKING	NIC	NOT IN CONTRACT
BM	BEAM	NO	NUMBER
BOT	BOTTOM	NTS	NOT TO SCALE
BRKT	BRACKET	O.F.	OVERFLOW PIPE
BUR	BUILT UP ROOF	OA	OVERALL
C.G.	CORNER GUARD	OC	ON CENTER
CAB	CABINET	OD	OUTSIDE DIAMETER
CALK	CAULKING	OPG	OPENING
CER	CERAMIC	OPP	OPPOSITE
CJ	CONTROL JOINT	PERIM	PERIMETER
CLOS	CLOSET	PG	PAINT GRADE
CLR	CLEAR	PLAM	PLASTIC LAMINATE
CO	CASED OPENING	PLAS	PLASTER
COL	COLUMN	PR	PAIR
CONC	CONCRETE	PT	PAINT
CONT	CONTINUOUS	R	RISER
CPT	CARPET	RAD	RADIUS
CT	CERAMIC TILE	RCP	REFLECTED CEILING PLAN
CTR	CENTER	RD	ROOF DRAIN
DEMO	DEMOLISH	REF	REFRIGERATOR
DIA	DIAMETER	REINF	REINFORCED
DIM	DIMENSION	REQD	REQUIRED
DN	DOWN	RESIL	RESILIENT
DR	DOOR	RTNG	RATING
DS	DOWNSPOUT	RO	ROUGH OPENING
DWG	DRAWING	RTU	ROOF TOP UNIT (MEGH)
(E)	EXISTING	SAFB	SOUND ATTENUATION FIBER BATT
EA	EACH		
EJ	EXPANSION JOINT	SC	SCUPPER
ELEV	ELEVATION	SCD	SEE CIVIL DRAWINGS
EMER	EMERGENCY	SCHED	SCHEDULE
ENCL	ENCLOSURE	SEAL	SEALANT
EOS	EDGE OF SLAB	SECT	SECTION
EQ	EQUAL	SED	SEE ELECTRICAL DRAWINGS
EW	EACH WAY	SF	SQUARE FOOT
F.O.	FACE OF	SFPD	SEE FIRE PROTECTION DRAWINGS
FA	FIRE ALARM		
FAP	FIRE ANNUNCIATOR PANEL	SHT	SHEET
FD	FLOOR DRAIN	SIM	SIMILAR
FE	FIRE EXTINGUISHER	SLD	SEE LANDSCAPE DRAWINGS
FEC	FIRE EXTINGUISHER CABINET	SMD	SEE MECHANICAL DRAWINGS
FH	FIRE HYDRANT	SPD	SEE PLUMBING DRAWINGS
FIN	FINISH	SPEC	SPECIFICATION
FRP	FIBER-REINFORCED PLASTIC	SQ	SQUARE
FT	FOOT OR FEET	SS	STAINLESS STEEL
FUR	FURRING	SSD	SEE STRUCTURAL DRAWINGS
G.S.M.	GALVANIZED SHEET METAL	SSM	SOLID SURFACE MATERIAL
GAL	GALLON	STD	STANDARD
GALV	GALVANIZED	STL	STEEL
GB	GRAB BAR	STOR	STORAGE
GC	GENERAL CONTRACTOR	SUSP	SUPSPENDED
GL	GLASS	SYM	SYMMETRICAL
GND	GROUND	T	TEMPERED
GNB	GYPSUM BOARD	THK	THICK
GYP.	GYPSUM	THR	THRESHOLD
H.W.H.	HOT WATER HEATER	TO	TOP OF
HDWD	HARDWOOD	TR	TREAD
HM	HOLLOW METAL	TYP	TYPICAL
HT	HEIGHT	UG	UNDERGUT
ID	INSIDE DIAMETER	UNFIN	UNFINISHED
INSUL	INSULATION	UNO	ULNESS NOTED OTHERWISE
INT	INTERIOR	UON	UNLESS OTHERWISE NOTED
JST	JOIST	VCT	VINYL COMPOSITION TILE
JT	JOINT	VIF	VERIFY IN FIELD
LAM	LAMINATE	VTR	VENT TERMINATION PIPE
LAV	LAVATORY	VWC	VINYL WALL COVERING
		W/	WITH
		W/O	WITHOUT
		WC	WATERCLOSET
		WIN	WINDOW
		WP	WATERPROOF
		WSCT	WAINSCOT
		WT	WEIGHT

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APPLICABLE CODES

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

TITLE 24 CCR, PART 1 - 2025 BUILDING STANDARDS ADMINISTRATIVE CODE

TITLE 24 CCR, PART 2 - 2025 CALIFORNIA BUILDING CODE, VOL. 1 & 2 (CBC) (2015 IBC, AS AMENDED BY CA)

TITLE 24 CCR, PART 3 - 2025 CALIFORNIA ELECTRICAL CODE (CEC) (2014 NEC, AS AMENDED BY CA)

TITLE 24 CCR, PART 4 - 2025 CALIFORNIA MECHANICAL CODE (CMC) (2015 IAPMO UMC, AS AMENDED BY CA)

TITLE 24 CCR, PART 5 - 2025 CALIFORNIA PLUMBING CODE (CPC) (2015 IAPMO UPC, AS AMENDED BY CA)

TITLE 24 CCR, PART 6 - 2025 CALIFORNIA ENERGY CODE

TITLE 24 CCR, PART 9 - 2025 CALIFORNIA FIRE CODE (CFC) (2015 IFC, AS AMENDED BY CA)

TITLE 24 CCR, PART 11 - 2025 CALIFORNIA GREEN BUILDING STANDARDS CODE

TITLE 24 CCR, PART 12 - 2025 CALIFORNIA REFERENCED STANDARDS (PARTIAL LIST - SEE CBC CH. 35 AND CFC CH. 80)

2025 NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)

2024 NFPA 14, INSTALLATION OF STANDPIPE AND HOSE SYSTEMS

2025 NFPA 72, NATIONAL FIRE ALARM CODE (CA AMENDED); SEE UL STD. 1971 FOR "VISUAL DEVICES"

2025 NFPA 80, FIRE DOOR AND OTHER OPENING PROTECTIVES

2011 UL, 464, AUDIBLE SIGNAL APPLIANCES

2024 UL 521, HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS

DEFERRED SUBMITTALS

1. SHOP FABRICATED WOOD TRUSSES
2. PREFABRICATED FREEZER BUILDING AND FOUNDATIONS, AND ASSOCIATED SYSTEMS
3. SHADE SAIL STRUCTURE AND FOUNDATIONS
4. FIRE ALARM SYSTEMS
5. FIRE SPRINKLER SYSTEMS
6. PREFABRICATED METAL CANOPIES

NOTE:

EACH DEFERRED SUBMITTAL WILL FIRST BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, WHO WILL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH NOTATION INDICATING THAT THE SUBMITTALS CONFORM TO THE DESIGN OF THE BUILDING. A SHOP DRAWING STAMP MARKED "NO EXCEPTIONS TAKEN" OR A SEPARATE MEMORANDUM IS ACCEPTABLE.

PROJECT DATA

DESCRIPTION

REFERENCE	DESCRIPTION	INTERPRETATION
SCOPE	NEW ANIMAL SERVICES FACILITY	
LOCATION	DOS REIS RD & STANFORD CROSSING LATHROP, CA 95330	
ZONING	P-GI, PARK	
APN	142-020-11	

GENERAL INFORMATION

REFERENCE	DESCRIPTION	INTERPRETATION
	BUILDING AREA	11,121 SF
	ACTUAL BUILDING HEIGHT	23' - 4"
	ACTUAL NUMBER OF STORIES	1 STORIES
	LOT SIZE	618,970 SF

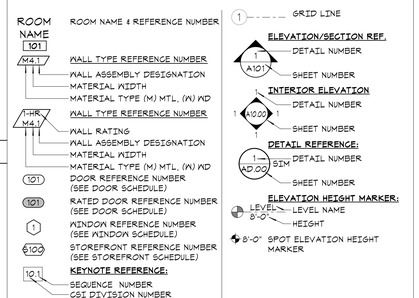
OCCUPANCY

REFERENCE	DESCRIPTION	INTERPRETATION
CBC 304.1	GROUP - B	
CBC TABLE 504.3	ALLOWABLE BUILDING HEIGHT	60'-0"
CBC TABLE 504.4	ALLOWABLE NUMBER OF STORIES	2
CBC TABLE 506.2	ALLOWABLE BUILDING AREA	36,000 SF
	ACTUAL BUILDING AREA	9,080 SF
OCCUPANT LOAD	161	
CBC 312.1	GROUP - U (ACCESSORY TO B)	
CBC TABLE 504.3	ALLOWABLE BUILDING HEIGHT	60'-0"
CBC TABLE 504.4	ALLOWABLE NUMBER OF STORIES	2
CBC TABLE 506.2	ALLOWABLE BUILDING AREA	22,000 SF
	ACTUAL BUILDING AREA	1,271 SF
OCCUPANT LOAD	4	

SEPARATED MIXED OCCUPANCY

CBC 508.3	AUTOMATIC FIRE SPRINKLERS	YES
CBC TABLE 601	CONSTRUCTION TYPE	V-B
CBC 508.2	U (ACCESSORY TO B)	761 SF / 10,946 SF = .07 (7%) TOTAL 7% < 10%

SYMBOLS LEGEND



SHEET INDEX

GENERAL		S301	ENLARGED ROOF FRAMING PLAN - AREA A
G0.00	COVER SHEET, PROJECT DATA, GENERAL NOTES, SYMBOLS & ABBREVIATIONS	S302	ENLARGED ROOF FRAMING PLAN - AREA B
G1.02	CAL GREEN CHECKLIST - 1	S303	ENLARGED ROOF FRAMING PLAN - AREA C
G1.03	CAL GREEN CHECKLIST - 2	S305	ROOF FRAMING DETAILS
G1.04	CAL GREEN CHECKLIST - 3	S306	ROOF FRAMING DETAILS
G1.05	CAL GREEN CHECKLIST - 4	S307	ROOF FRAMING DETAILS
G2.00	LIFE SAFETY PLAN	S308	STEEL DETAILS
G3.00	SIGNAGE DETAILS	S309	TRUSS PROFILES
G4.00	ACCESSIBILITY STANDARDS	S310	ROOF FRAMING DETAILS
G4.01	ACCESSIBILITY DETAILS	S311	ROOF SHEAR ZONE PLAN
		S400	SHEAR WALL PLAN
CIVIL		S401	MISCELLANEOUS DETAILS
C1.0	COVER SHEET	S501	SECTION CUTS
C2.0	STANDARD NOTES & ABBREVIATIONS	S502	SECTION CUTS
C3.0	CONSTRUCTION DETAILS	S503	SECTION CUTS
C4.0	TOPOGRAPHIC SURVEY & DEMOLITION PLAN	S504	SECTION CUTS
C5.0	DIMENSION & PAVING PLAN	S505	SECTION CUTS
C6.0	GRADING & DRAINAGE PLAN	S600	TRASH ENCLOSURE
C6.1	GRADING DETAILS		
C6.2	GRADING DETAILS	MECHANICAL	
C7.0	UTILITY PLAN	M0.01	MECHANICAL LEGENDS & NOTES
C7.1	UTILITY PLAN DETAIL	M0.02	MECHANICAL SCHEDULES
C8.0	EROSION CONTROL PLAN	M1.00	MECHANICAL ZONING PLAN
C9.0	SIGNAGE & STRIPING PLAN	M2.00	OVERALL MECHANICAL FLOOR PLAN
C9.1	STANFORD CROSSING EXTENSION - SIGNING & STRIPING PLANS	M2.10	MECHANICAL FLOOR PLAN - AREA A
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		M2.12	MECHANICAL FLOOR PLAN - AREA C
LANDSCAPE		M3.00	OVERALL MECHANICAL ROOF PLAN
L0.1	LANDSCAPE NOTES AND SCHEDULES	M5.00	MECHANICAL DETAILS
L1.1	SITE CONSTRUCTION PLAN	M5.01	MECHANICAL DETAILS
L1.2	HORIZONTAL CONTROL PLAN - ENTRY PLAZA	M6.00	MECHANICAL CONTROLS
L2.1	SITE CONSTRUCTION DETAILS	M6.01	MECHANICAL CONTROLS
L2.2	SITE CONSTRUCTION DETAILS	M7.00	TITLE 24 COMPLIANCE
L3.1	IRRIGATION PLAN	M7.01	TITLE 24 COMPLIANCE
L4.1	PLANTING PLAN	M7.02	TITLE 24 COMPLIANCE
L4.2	LANDSCAPE LIGHTING PLAN		
L4.3	MULCH PLAN	PLUMBING	
L5.1	IRRIGATION DETAILS	P0.01	PLUMBING LEGENDS & NOTES
L5.2	IRRIGATION DETAILS	P0.02	PLUMBING SCHEDULES
L6.1	PLANTING DETAILS	P0.03	PLUMBING FIXTURE SCHEDULE
L7.1	WELO NOTES AND CALCULATIONS	P2.00	OVERALL UNDERGROUND PLUMBING PLAN
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A1.04	TRASH ENCLOSURE & MONUMENT SIGN	P3.11	PLUMBING FLOOR PLAN - AREA B
A2.00	SLAB PLAN	P3.12	PLUMBING FLOOR PLAN - AREA C
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A3.11	FLOOR PLAN - AREA B	P5.01	PLUMBING DETAILS
A3.12	FLOOR PLAN - AREA C		
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A3.21	EQUIPMENT FLOOR PLAN - AREA A	FP0.01	FIRE PROTECTION LEGENDS & NOTES
A3.22	EQUIPMENT FLOOR PLAN - AREA B	FP2.00	OVERALL FIRE PROTECTION FLOOR PLAN
A3.23	EQUIPMENT FLOOR PLAN - AREA C		
A4.00	REFLECTED CEILING PLAN	ELECTRICAL	
A5.00	OVERALL ROOF PLAN	E0.1	NOTES, ABBREVIATIONS, AND SHEET INDEX
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A6.01	EXTERIOR ELEVATIONS	E0.3	SCHEDULES
A7.00	BUILDING SECTIONS	E0.4	PANEL SCHEDULES
A7.01	BUILDING SECTIONS	E0.5	TITLE 24 - SOLAR AND BATTERY
A7.10	WALL SECTIONS	E0.6	TITLE 24 - ELECTRICAL POWER DISTRIBUTION
A7.11	WALL SECTIONS	E0.7	TITLE 24 - OUTDOOR LIGHTING
A7.12	WALL SECTIONS	E0.8	TITLE 24 - OUTDOOR LIGHTING CONTINUED
A8.00	INTERIOR ELEVATIONS	E0.9	TITLE 24 - INDOOR LIGHTING
A8.01	INTERIOR ELEVATIONS	E0.10	TITLE 24 - INDOOR LIGHTING CONTINUED
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A9.05	CMU FINISH PLAN	E6.00	POWER ONE-LINE AND FIRE ALARM RISER DIAGRAMS
AD.01	WALL DETAILS	E6.01	SPECIAL SYSTEMS DIAGRAMS - SECURITY
AD.02	WALL DETAILS	E6.02	SPECIAL SYSTEMS DIAGRAMS - SECURITY
AD.03	ROOF DETAILS	E7.00	ELECTRICAL DETAILS
AD.04	WINDOW DETAILS	E7.01	ELECTRICAL DETAILS
AD.05	DOOR DETAILS	E7.02	ELECTRICAL DETAILS
AD.06	CEILING DETAILS	E7.03	SPECIAL SYSTEMS DETAILS
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CITY OF LATHROP
ENGINEERING
APPROVED BY: _____ City Engineer
DATE: 6/23/2026
RCE NO: C92823
EXP DATE: 12/31/2027

LATHROP - MANTECA FIRE DISTRICT
APPROVED BY: N/A Fire Marshal
DATE: _____

DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
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REGISTERED ARCHITECT ERIC WILLIAM MOHLE C28388 December 2027 STATE OF CALIFORNIA

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: MG
Checked By: EW

No.	Description	Date	By

BID SET
6/23/2026

COVER SHEET, PROJECT DATA, GENERAL NOTES, SYMBOLS & ABBREVATIONS

G0.00

6/23/2026 3:12:51 PM

2025 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 1

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 PLANNING AND DESIGN
SECTION 5.101 GENERAL

5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS

5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

ZEV. [BSC-CG, DSA-SS] Any vehicle certified to zero-emission standards.

SECTION 5.105 DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES

5.105.1 Scope. [BSC-CG] Effective July 1, 2024, alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

[DSA-SS] Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

Exception [BSC-CG, DSA-SS]: Combined addition(s) to existing building(s) of two times the area or more of the existing building(s) is not eligible to meet compliance with Section 5.105.2.

5.105.2 Reuse of existing building. An alteration or addition to an existing building shall maintain at a minimum 45 percent combined of the existing building's primary structural elements (foundations; columns, beams, walls, and floors; and lateral elements) and existing building enclosure (roof framing, wall framing and exterior finishes). Window assemblies, insulation, portions of buildings deemed structurally unsound or hazardous, and hazardous materials that are remediated as part of the project shall not be included in the calculation.

5.105.2.1 Verification of compliance. Documentation shall be provided in the construction documents to demonstrate compliance with Section 5.105.2.

Note: Sample Worksheet WS-3 in Chapter 8 may be used to assist in documenting compliance with this section.

5.105.3 Deconstruction (Reserved).

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g. Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitors, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 20% of the peak daily visitors, with a minimum of one two-bike capacity rack.

Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. Acceptable bicycle parking facility for Section 5.106.4.1.2.1, 5.106.4.1.2.2 and 5.106.4.1.23 shall be conveniently located near the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3.Lockable, permanently anchored bicycle lockers.

Calculations for bicycle parking requirements shall be rounded up to the nearest whole number.

5.106.4.1.2.1
For new buildings with tenant spaces, provide secure bicycle parking for 10 percent of the tenant-occupants, with a minimum of one bicycle parking facility.

5.106.4.1.2.2
For additions or alternations, provide secure bicycle parking for 10 percent of the tenant-occupants being added, with a minimum of one bicycle parking facility.

5.106.4.1.2.3
For new shell buildings in phased projects, provide secure bicycle parking for 10 percent of the anticipated tenant-occupants, with a minimum of one bicycle parking facility.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

5.106.5.3 Electric vehicle (EV) charging. [N] [BSC-CG] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 EV capable spaces, Section 5.106.5.3.2 Electric vehicle charging stations and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 Electric vehicle charging stations (EVCS)—Power allocation method and associated Table 5.106.5.3.6 and shall be provided in accordance with regulations in the *California Building Code* and the *California Electrical Code*.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
2. Areas of parking facilities served by parking lifts, including but not limited to, automated mechanical-access open parking garages as defined in the California Building Code; or parking facilities otherwise incapable of supporting electric vehicle charging.

5.106.5.3.1 EV capable spaces. [N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:

1. Raceways complying with the California Electrical Code and no less that 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable and into a suitable listed cabinet, box,enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective devices space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

TABLE 5.106.5.3.1 EV Capable Spaces and EVCS

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	OTHER THAN OFFICE AND RETAIL NUMBER OF REQUIRED ECVS[1,2,3]	OFFICE AND RETAIL NUMBER OF REQUIRED ECVS[1,2,3]
1-9	0	0	0
10-25	4	2	3
26-50	8	4	6
51-75	13	6	8
76-100	17	8	13
101-150	25	12	19
151-200	35	18	26
201 AND OVER	20 percent of actual parking spaces[1]	50 percent of EV capable spaces[1]	75 percent of EV capable spaces[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.
2. Each EVCS shall reduce the number of required capable spaces by the same number.
3. At least one Level 2 EVSE shall be provided.

5.106.5.3.2 Electric vehicle charging stations (EVCS) EV capable spaces shall be provided with electric vehicle supply equipment (EVSE) to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 shall be provided with Level 2 EVSE or DCFC as permitted in Section 5.106.5.3.2.3. At least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger.

5.106.5.3.2.1 Receptacle configurations. 208/240V EV charging receptacles shall comply with one of the following configurations:
1. For 2D-ampere receptacles, NEMA 6-20R
2. For 30-ampere receptacles, NEMA 14-30R
3. For 50-ampere receptacles, NEMA 14-50R

5.106.5.3.2.2 EV charger connectors. EV chargers shall be equipped with SAE J1772 with a maximum output 240 Volts AC or SAE J3400 connectors.When using level 2 SAE J3400 SAE connectors, supplied by a 480 V 3-phase service, at least 20 percent of the EV charger connectors shall be SAE J1772 with a maximum output 240 Volts AC.

5.106.5.3.2.3 The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE or EVCS with Level 2 EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.2.4 The installation of two low power Level 2 EV charging receptacles shall be permitted to reduce the minimum number of required EV capable spaces without EVSE in Table 5.106.5.3.1 by one.

5.106.5.3.2.4.1 Raceway capacity requirements. To allow for future upgrades to the electrical conductors serving low power Level 2 charging receptacles, the listed raceway serving such receptacles shall be sized to allow the installation of a dedicated 208/240-volt 40-ampere branch circuit. Where no raceway is used, the conductors shall be sized to accommodate a 208/240-volt 40-ampere receptacle.

5.106.5.3.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.3.4 Accessible EVCS.
When EVSE is installed, accessible EVSC shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.3.4 Accessible electric vehicle charging station (EVCS). When EVSE is installed, accessible EVCS shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

5.106.5.3.5 Electric vehicle charging station signage. Electric vehicle charging stations shall be identified by signage or pavement markings in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

Power allocation method shall include the following:
1. Use any kVA combination of EV capable spaces, low power Level 2, Level 2 or DCFC EVSEs.
2. At least one Level 2 EVSE shall be provided.

5.106.5.3.6 Electric vehicle charging stations (EVCS)—power allocation method. The power allocation method may be used as an alternative to the requirements in Section 5.106.5.3.1, Section 5.106.5.3.2 and associated Table 5.106.5.3.1. Use Table 5.106.5.3.6 to determine the total power in kVA required based on the total number of actual parking spaces.

TABLE 5.106.5.3.6 Power Allocation Method

TOTAL NUMBER OF ACTUAL PARKING SPACES	MINIMUM TOTAL kVA @ 6.6 kVA	OTHER THAN OFFICE AND RETAIL TOTAL kVA REQUIRED IN ANY COMBINATION OF EV CAPABLE[5,6] LOW POWER LEVEL 2, LEVEL 2[1,7] OR DCFC	OFFICE AND RETAIL TOTAL kVA REQUIRED IN ANY COMBINATION OF EV CAPABLE[4,6] LOW POWER LEVEL 2, LEVEL 2[1,7] OR DCFC
1-9	0	0	0
10-25	26.4	26.4	26.4
26-50	52.8	52.8	52.8
51-75	85.8	85.8	85.8
76-100	112.2	112.2	112.2
101-150	165	165	165
151-200	231	231	231
201 AND OVER	20 percent of actual parking spaces x 6.6	Total required kVA = P x .20 x 6.6 Where P = Parking spaces in facility	Total required kVA = P x .20 x 6.6 Where P = Parking spaces in facility

1. Level 2 EVSE @ 6.6 kVA minimum.
2. At least one Level 2 EVSE shall be provided.
3. Maximum allowed kVA to be utilized for EV capable spaces is 75 percent.
4. If EV capable spaces are utilized, they shall meet the requirements of Section 5.106.5.3.1 EV capable spaces.
5. For Office and Retail buildings the maximum allowed kVA to be utilized for EV capable is 25 percent.

5.106.5.3.6.1 Receptacle configurations. 208/240V EV charging receptacles shall comply with one of the following configurations:
1. For 20-ampere receptacles, NEMA 6-20R.
2. For 30-ampere receptacles, NEMA 14-30R.
3. For 50-ampere receptacles, NEMA 14-50R.

5.106.5.3.6.2 EV Charger connectors. EV chargers shall be equipped with SAE J1772 with a maximum output 240 Volts AC or SAE J3400 connectors. When using level 2 SAE J3400 connectors, supplied by a 480 V 3-phase service, at least 20 percent of the EV charger connectors shall be SAE J1772 with a maximum output 240 Volts AC.

5.106.5.3.6.3 Raceway capacity requirements. To allow for future upgrades to the electrical conductors serving low power Level 2 charging receptacles, the listed raceway serving such receptacles shall be sized to allow the installation of a dedicated 208/240-volt 40-ampere branch circuit. Where no raceway is used, the conductors shall be sized to accommodate a 208/240-volt 40-ampere receptacle.

5.106.5.4 Additions or alterations to existing buildings or parking facilities [A]. [BSC-CG] Existing buildings or parking facilities being modified by one of the following shall comply with Section 5.106.5.4.1 or 5.106.5.4.2. When EVSE is installed, accessible EVCS shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

1. When the scope of construction work includes an increase in power supply to an electric service panel as part of a parking facility addition or alteration.
2. When a new photovoltaic system is installed covering existing parking spaces.
3. When additions or alterations to existing buildings are triggered pursuant to code Section 301.3 and the scope of work includes an increase in power supply to an electric service panel.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
   d. Where demonstrated as impracticable excluding local utility service or utility infrastructure issues.
2. Remote parking facilities that do not have access to the building service panel.
3. Parking area lighting upgrades where no trenching is part of the scope of work.
4. Emergency repairs, including but not limited to water line break in parking facilities, natural disaster repairs, etc.

5.106.5.4.1 Existing buildings or parking areas without previously installed EV capable infrastructure [A]. When EV capable infrastructure does not exist at an existing parking facility or building, and the parking facility or building undergoes an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 for the total number of actual parking spaces being added or altered.

5.106.5.4.2 Existing buildings or parking areas with previously installed EV capable infrastructure [A]. When EV capable infrastructure is available at an existing parking facility or building, and the parking facility or building is undergoing an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6. Install EVCS at all existing EV capable spaces, utilizing the existing EV capable allocated power and infrastructure for the total number of actual parking spaces being added or altered, prior to adding any new EV capable spaces. If the area being added or altered exceeds the existing EV capable capacity, allocated power and infrastructure, provide additional EV charging as needed to comply with this section.

5.106.5.5 Electric vehicle (EV) charging: medium-duty and heavy-duty. [N] [BSG-CG] Construction shall comply with Section 5.106.5.5.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores, office buildings, and manufacturing facilities with planned off-street loading spaces shall also comply with Section 5.106.5.5.1 for future installation of medium- and heavy-duty EVSE.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

5.106.5.5.1 Electric vehicle charging readiness requirements for warehouses, grocery stores, office buildings, and manufacturing facilities and retail stores with planned off-street loading spaces. [N]

In order to avoid future demolition when adding EV supply and distribution equipment, spare raceway(s) or busway(s) and adequate capacity for transformer(s), service panel(s) or subpanel(s) shall be installed at the time of construction in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

1. The transformer, main service equipment and subpanels shall meet the minimum power requirement in Table 5.106.5.5.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
2. The construction documents shall indicate one or more location(s) convenient to the planned off-street loading space(s) reserved for medium- and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s), as shown in Table 5.106.5.5.1.
3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium- and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipment for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be of sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.5.1.

TABLE 5.106.5.5.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]

BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
Grocery	10,000 to 90,000	1 or 2	200
		3 or Greater	400
	Greater than 90,000	1 or Greater	400
Manufacturing Facilities	10,000 to 50,000	1 or 2	200
	10,000 to 50,000	3 or Greater	400
	Greater than 50,000	1 or Greater	400
Office Buildings	10,000 to 135,000	1 or 2	200
	10,000 to 135,000	3 or Greater	400
	Greater than 135,000	1 or Greater	400
Retail	10,000 to 135,000	1 or 2	200
		3 or Greater	400
	Greater than 135,000	1 or Greater	400
Warehouse	20,000 to 256,000	1 or 2	200
		3 or Greater	400
	Greater than 256,000	1 or Greater	400

5.106.5.6 Electric vehicle (EV) charging at public schools and community colleges. [DSA-SS] Electric vehicle infrastructure and electric vehicle charging stations shall comply with Section 5.106.5.6 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

Exceptions:
1. On a case-by-case basis where compliance with this section has been demonstrated to be not feasible based upon one of the following conditions,and with concurrence by the Division of the State Architect (DSA), compliance with Section 5.106.5.6 shall not be required.
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. The installation of EVCS is impracticable.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with Section 5.106.5.6.

5.106.5.6.1 EV capable spaces. EV capable spaces shall be provided in accordance with Table 5.106.5.6.1 and the following requirements:

1. Raceways complying with the California Electrical Code and no less than 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area and shall terminate in close proximity to the proposed location of the EV capable space and into a suitable listed cabinet, box, enclosure or equivalent. A common raceway may be used to serve multiple EV capable spaces.
2. A service panel or subpanel(s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective device space(s) as "EV CAPABLE." The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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Key Plan:

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/2026

CAL GREEN CHECKLIST - 1

G1.02

2025 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 2

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

TABLE 5.106.5.6.1		
TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF REQUIRED EVCS[2]
0-9	0	0
10-25	4	1
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20 percent of total spaces[1]	25 percent of EV capable spaces[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.
2. Each EVCS shall reduce the number of required EV capable spaces by the same number.

5.106.5.6.2 Electric vehicle charging stations (EVCS). EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.6.1 and shall comply with Section 5.106.5.6.2. EVCS shall be serviced by Level 2 or Direct Current Fast Charging (DCFC) EVSE, or with EVSE in any combination of Level 2 and DCFC. Accessible EVCS shall be provided in accordance with *California Building Code* Chapter 11B.

5.106.5.6.2.1 Reduced number of EV capable spaces. The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces indicated in Table 5.106.5.6.1 by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.6.2.2 Multiple connectors. EVSE with multiple vehicle connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.6.1 for each EV capable space is accumulatively supplied to the EVSE.

5.106.5.6.2.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for EVCS installed in accordance with Section 5.105.5.6.2. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.6.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.6.3 EVCS alternative compliance. In lieu of compliance with Section 5.106.5.6.2, EVCS shall be provided with Level 1, low power Level 2, or Level 2, or any combination of Level 1, low power Level 2 or Level 2 EVSE such that the total power supplied by the combination of EVSE meets the minimum power indicated in Table 5.106.5.6.3, based on the total number of actual parking spaces in each parking facility.

TABLE 5.106.5.6.3	
NUMBER OF PARKING SPACES IN A PARKING FACILITY	MINIMUM TOTAL POWER (KVA) REQUIRED FOR EVCS
0-9	0
10-25	7
26-50	14
51-75	20
76-100	27
101-150	40
151-200	60
201 AND OVER	Total required KVA = P x .05 x 6.6 Where P = Parking spaces in facility

5.106.5.6.4 EVCS for alterations of or additions to parking facilities. Alterations of or additions to parking facilities shall provide EVCS in compliance with Section 5.106.5.6.4. The installation of infrastructure for EV capable spaces required to be provided without EVSE shall not be required.

5.106.5.6.4.1 Alterations of and additions to parking facilities. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or minimum power indicated in Table 5.106.5.6.3 when the scope of work includes an increase in power supply to an electric panel serving light fixtures illuminating the parking area or when area containing parking spaces is added to a parking facility. The number of required EVCS shall be based on the total number of existing and new parking spaces in the parking facility.

5.106.5.6.4.2 Alterations consisting of the installation of photovoltaic systems. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or maximum power indicated in Table 5.106.5.6.3 when a new photovoltaic system is installed in an existing parking facility.

5.106.5.6.5 Requirement to install EVSE. Level 2 EVSE shall be provided in all existing EV capable spaces to create EVCS when a project is required by California Administrative Code Section 4-309 to be submitted for plan approval to the Division of the State Architect. When EVSE is installed in existing EV capable spaces, accessible EVCS shall be provided in accordance with *California Building Code* Chapter 11B.

Exception: Projects in which improvements in parking areas consist only of accessibility improvements are not required to comply with Section 5.106.5.6.5.

5.106.8 LIGHT POLLUTION REDUCTION. [N]. I Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS[1,2]					
ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING [3]					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting [3]	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING [4] (G)					
MAXIMUM ALLOWABLE GLARE RATING [4] (G)	N/A	G1	G2	G3	G4
MAXIMUM ALLOWABLE GLARE RATING [4] (G)	N/A	G0	G1	G1	G2
MAXIMUM ALLOWABLE GLARE RATING [4] (G)	N/A	G0	G0	G1	G1
MAXIMUM ALLOWABLE GLARE RATING [4] (G)	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code*.
2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.
3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet *U*-value limits for "all other outdoor lighting"

5.106.8.1 Facing- Backlight
Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.

Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing-Glare.
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

Note: [N]
1.See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the *California Building Code* for requirements for additions and alterations.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
   Exception: Additions and alterations not altering the drainage path.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions:
1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.
2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 Scope [BSC-CG]. *California Energy Code [DSA-SS]*. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

SPECIAL LANDSCAPE AREA (SLA). [DSA-SS] An area of the landscape dedicated solely to edible plants, planting areas used for educational purposes, recreational areas, areas irrigated with recycled water, water features using recycled water, and where turf provides a playing surface or gathering space.

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

5.303.3.4 Faucets and fountains.
5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

5.303.3.4.6 Pre-rinse spray value
When installed, commercial pre-rinse spray valves shall meet the requirements in the California Plumbing Code, Section 420.3.

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

SECTION 5.304 OUTDOOR WATER USE

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Notes:
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5,304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter specify the requirements of achieving material conservation, resource efficiency, and greenhouse gas (GHG) emission reduction through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, the installation of products with lower GHG emissions and building commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

BUY CLEAN CALIFORNIA ACT (BCCA). The Buy Clean California Act (BCCA) (Public Contract Code Sections 3500-3505) targets carbon emissions associated with the production of structural steel (hot-rolled sections, hollow structural sections, and plate), concrete reinforcing steel, flat glass, and mineral wool board insulation. The maximum acceptable global warming potential (GWP) limits are established by the Department of General Services (DGS), in consultation with the California Air Resources Board (CARB).

CRADLE-TO-GRAVE. Activities associated with a product or building's life cycle from the extraction stage through disposal stage, and covering modules A1 through C4 in accordance with ISO Standards 14025 and 21930.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

REFERENCE STUDY PERIOD. The period of use for the building, in years, that will be assumed for life cycle assessment.

TEST. A procedure to determine quantitative performance of a system or equipment

TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD). A third-party verified report that summarizes how a product impacts the environment. Type III EPDs can be either product-specific, factory-specific, or industry-wide EPDs. See "Cradle-to-Gate."

FACTORY-SPECIFIC EPD. A product-specific Type III EPD in which the environmental impacts can be attributed to a single manufacturer and manufacturing facility.

INDUSTRY-WIDE EPD (IW-EPD). A Type III EPD in which the environmental impacts are an average of the typical manufacturing impacts for a range of products within the same product category for a group of manufacturers.

PRODUCT-SPECIFIC EPD. A Type III EPD in which the environmental impacts can be attributed to a product design and manufacturer across multiple facilities.

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:
1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

LDA DESIGNERS & ARCHITECTS

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LICENSED ARCHITECT — C28386 — September 2027 — STATE OF CALIFORNIA

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/2026

CAL GREEN CHECKLIST - 2

G1.03

6/20/2026 4:59:31 PM

2025 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 3

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:
1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (**www.cdfa.ca.gov**)

SECTION 5.409 LIFE CYCLE ASSESSMENT

5.409.1 SCOPE. [BSC-CG] Effective July 1, 2024, projects consisting of newly constructed building(s) with a combined floor area of 100,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

[DSA-SS] Projects consisting of newly constructed building(s) with a combined floor area of 50,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

☐ ☑ **5.409.2 Whole building life cycle assessment.** Projects shall conduct a cradle-to-grave whole building life cycle assessment performed in accordance with ISO 14040 and ISO 14044, excluding operating energy, and demonstrating a minimum 10-percent reduction in global warming potential (GWP) as compared to a reference baseline building of similar size, function, complexity, type of construction, material specification, and location that meets the requirements of the California Energy Code currently in effect. Software used to conduct the whole building life cycle assessment, including reference baseline building, shall have a data set compliant with ISO 14044, and ISO 21930 or EN 15804, and the software shall conform to ISO 21931 and/or EN 15978. The software tools and data sets shall be the same for evaluation of both the baseline building and the proposed building.

Notes:
1. Software for calculating whole building life cycle assessment is available for free at Athena Sustainable Materials Institute (https://calculatelca.com/software/impact-estimator/) and OneClick LCA-Planetary (www.oneclicklca.com/planetary). Paid versions include, but are not limited to, Sphera GaBi Solutions (gabi.sphera.com), SimaPro (simapro.com), One-Click LCA (www.oneclicklca.com) and Tally for Revit (apps.autodesk.com).

2. ASTM E2921-22 "Standard Practice for Minimum Criteria for Comparing Whole Building Life Cycle Assessments for Use with Building Codes, Standards, and Rating Systems" may be consulted for the assessment.

3. In addition to the required documentation specified in Section 5.409.2.3, Worksheet WS-9 may be required by the enforcing entity to demonstrate compliance with the requirements.

5.409.2.1 Building components. Building enclosure components included in the assessment shall be limited to glazing assemblies, insulation, and exterior finishes. Primary and secondary structural members included in the assessment shall be limited to footings and foundations, and structural columns, beams, walls, roofs, and floors.

5.409.2.2 Reference study period. The reference study period of the proposed building shall be equal to the reference baseline building and shall be 60 years.

5.409.2.3 Verification of compliance. A summary of the GWP analysis produced by the software and Worksheet WS-4 signed by the design professional of record shall be provided in the construction documents as documentation of compliance. A copy of the whole building life cycle assessment which includes the GWP analysis produced by the software, in addition to maintenance and training information, shall be included in the operation and maintenance manual and shall be provided to the owner at the close of construction. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.

☐ ☑ **5.409.3 Product GWP compliance—prescriptive path.** Each product that is permanently installed and listed in Table 5.409.3 shall have a Type III environmental product declaration (EPD), either product-specific or factory-specific.

TABLE 5.409.3
PRODUCT GWP LIMITS

BUY CLEAN CALIFORNIA MATERIALS PRODUCT CATEGORY[1]	MAXIMUM ACCEPTABLE GWP VALUE (unfabricated) ($GWP_{allowed}$)	UNIT OF MEASUREMENT
Hot-rolled structural steel sections	1.77	MT CO_2e/MT
Hollow structural sections	3.00	MT CO_2e/MT
Steel plate	2.61	MT CO_2e/MT
Concrete reinforcing steel	1.56	MT CO_2e/MT
Flat glass	2.50	kg CO_2e/MT
Light-density mineral wool board insulation	5.83	kg CO_2e/MT
Heavy-density mineral wool board insulation	14.28	kg CO_2e/MT
Concrete, Ready-Mixed[2, 3]		
CONCRETE PRODUCT CATEGORY	**MAXIMUM GWP ALLOWED VALUE ($GWP_{allowed}$)**	**UNIT OF MEASUREMENT**
up to 2499 psi	450	kg CO_2e/m^3
2500–3499 psi	489	kg CO_2e/m^3
3500–4499 psi	566	kg CO_2e/m^3
4500–5499 psi	661	kg CO_2e/m^3
5500–6499 psi	701	kg CO_2e/m^3
6500 psi and greater	799	kg CO_2e/m^3
Concrete, Lightweight Ready-Mixed[2]		
CONCRETE PRODUCT CATEGORY	**MAXIMUM GWP ALLOWED VALUE ($GWP_{allowed}$)**	**UNIT OF MEASUREMENT**
up to 2499 psi	875	kg CO_2e/m^3
2500–3499 psi	956	kg CO_2e/m^3
3500–4499 psi	1039	kg CO_2e/m^3

1. The GWP values of the products listed in Table 5.409.3 are based on 175 percent of Buy Clean California Act (BCCA) GWP values, except for concrete products which are not included in the BCCA.
2. For concrete, 175 percent of the National Ready Mixed Concrete Association (NRMCA) 2022 version 3 Pacific Southwest regional benchmark values are used for the GWP allowed, except for High Early Strength.
3. Concrete High Early Strength ready-mixed shall be calculated at 130 percent of the ready-mixed concrete GWP allowed values for each product category.

5.409.3.1 Products shall not exceed the maximum GWP value specified in Table 5.409.3.

Exception: Concrete may be considered one product category to meet compliance with this section. A weighted average of the maximum GWP for all concrete mixes installed in the project shall be less than the weighted average maximum GWP allowed per Table 5.409.3 using Exception Equation 5.409.3.1. Calculations shall be performed with consistent units of measurement for the material quantity and the GWP value.

For the purposes of this exception, industry-wide EPDs are acceptable.

Exception EQUATION 5.409.3.1

$GWP_S < GWP_{allowed}$
where
$GWP_S = \Sigma\ (GWP_n)(v_n)$
and
$GWP_{allowed} = \Sigma\ (GWP_{allowed})(v_n)$
and
$_n$ = each concrete mix installed in the project
GWP_n = the GWP for concrete mix $_n$ per concrete mix EPD, in kg $CO_2e/m3$
$GWP_{allowed}$ = the GWP potential allowed for concrete mix $_n$ per Table 5.409.3
v_n = the volume of concrete mix $_n$ installed in the project, in m3

5.409.3.2 Verification of compliance. Calculations to demonstrate compliance, Type III EPDs for products required to comply, if included in the project, and Worksheet WS-5 signed by the design professional of record shall be provided on the construction documents. Updated EPDs for products used in construction shall be provided to the owner at the close of construction and to the enforcement entity upon request. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.8 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of Design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area or room which does not provide heating and/or air conditioning.

Informational Notes:

1. , Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code*.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:
1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:
1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:
1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

☐ ☑ **5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet.** Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32º Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I–joists or finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hydrochlorofluorocarbon, a perfluorocarbon, a hydrofluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O^3/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

☑ ☐ **5.504.4 FINISH MATERIAL POLLUTANT CONTROL.** Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

☑ ☐ **5.504.4.1 Adhesives, sealants and caulks.** Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:
1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]

Less Water and Less Exempt Compounds in Grams per Liter	
ARCHITECTURAL APPLICATIONS	**CURRENT VOC LIMIT**
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter	
SEALANTS	**CURRENT VOC LIMIT**
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

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LDA
DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
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LICENSED ARCHITECT
C28388
September 2027
STATE OF CALIFORNIA

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

No. Description Date By

BID SET
6/23/2026

CAL GREEN CHECKLIST - 3

G1.04

02/22/26 4:57:37 PM

2025 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 4

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Gode of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS:	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS
2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:
1. Manufacturer's product specification
2. Field verification of on-site product containers

5.504.4.4 Carpet Systems.
All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:
1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350)

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.4.7 Thermal insulation
Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, "Version 1.2, January 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.7.1 Verification of compliance.
Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.

5.504.4.8 Acoustical ceiling and wall panels.
Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, " Version 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs.

5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.

5.504.5 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO_2) MONITORING. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

5.506.3 Carbon dioxide (CO_2) monitoring in classrooms.
[DSA-SS] Classrooms and other similar rooms that are used for group instruction shall be equipped with a carbon dioxide monitor or sensor.

[BSC-CG] Newly constructed projects and qualifying additions and alterations (per scope in Section 301.3) for University of California, California State University and private school classrooms, lecture and post-secondary classrooms shall be equipped with a carbon dioxide monitor or sensor.

[DSA-SS, BSC-CG] The carbon dioxide monitor or sensor shall meet the following requirements:
1. The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable windows.
2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel.
3. A monitor shall provide notification though a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have exceed 1,100ppm.
4. The monitor or EMCS devices used to measure carbon dioxide levels shall maintain a record of previous data that includes at least the maximum carbon dioxide concentration measured.
5. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400ppm to 2000ppm or greater.
6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years.

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

   Exceptions:

   1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
   2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves Valves and fittings shall comply with the *California Mechanical Code* and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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C28388
September 2027
STATE OF CALIFORNIA

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Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/2026

CAL GREEN CHECKLIST - 4

G1.05

PLUMBING FIXTURE CALCULATION

CBC TABLE 1004.5 OCCUPANCY	USE	AREA (SF)	CPC TABLE 4-1 OCCPUANCY	CBC TABLE 1004.5 OLF	TOTAL OCCUPANT LOAD	COMBINED USE OCCUPANT LOAD	OCCUPANT LOAD/2	ROUNDED OCCUPANT LOAD	WATER CLOSETS		URINALS	LAVATORIES		DRINKING FOUNTAIN	SERVICE SINKS
									M	F		M	F		
A	MULTI PURPOSE ROOM	731 SF	A-3	15	48.73	48.73	24.37	25	0.25	1	.25	0.13	0.13	0.2	1
S	ANIMAL HOUSING	2926 SF	S-2	300	9.75	9.75	4.88	5	0.05	0.05		0.025	0.025	0.02	
B	BUSINESS AREAS	5342 SF	B	150	35.61	51.55	25.78	26	0.52	1.74	.26	0.35	0.52	0.18	
	STOR. & EQUIP ROOMS	878 SF		300	2.99										
	BREAK ROOM	137 SF		15	9.13										
	GARAGE	762 SF		200	3.81										
							FRACTIONAL TOTAL		.82	2.74	0.51	0.51	0.68	0.40	1
							TOTAL REQUIRED		1	3	1	1	1	1	1
							TOTAL PROVIDED		2	3	1	3	3	1	1

CODE COMPLIANCE

REFERENCE	DESCRIPTION	INTERPRETATION
MAXIMUM TRAVEL DISTANCE		
CBC TABLE 1017.2	MAX. TRAVEL DISTANCE	300 FT (W/ SPRINKLERS) U.O.N. BY OCCUPANCY
CBC 1006.2.1	COMMON PATH OF TRAVEL	< 100 FT
MINIMUM REQUIRED EGRESS		
CBC TABLE 1006.3.3	MIN. NUMBER OF EXITS REQUIRED	2 (OCC. LOAD < 500)
CBC 1007.1.1	EXIT ARRANGEMENT SEPARATION	< 1/3 THE DIAGONAL DIM. (W/ SPRINKLERS)

LIFE SAFETY NOTES

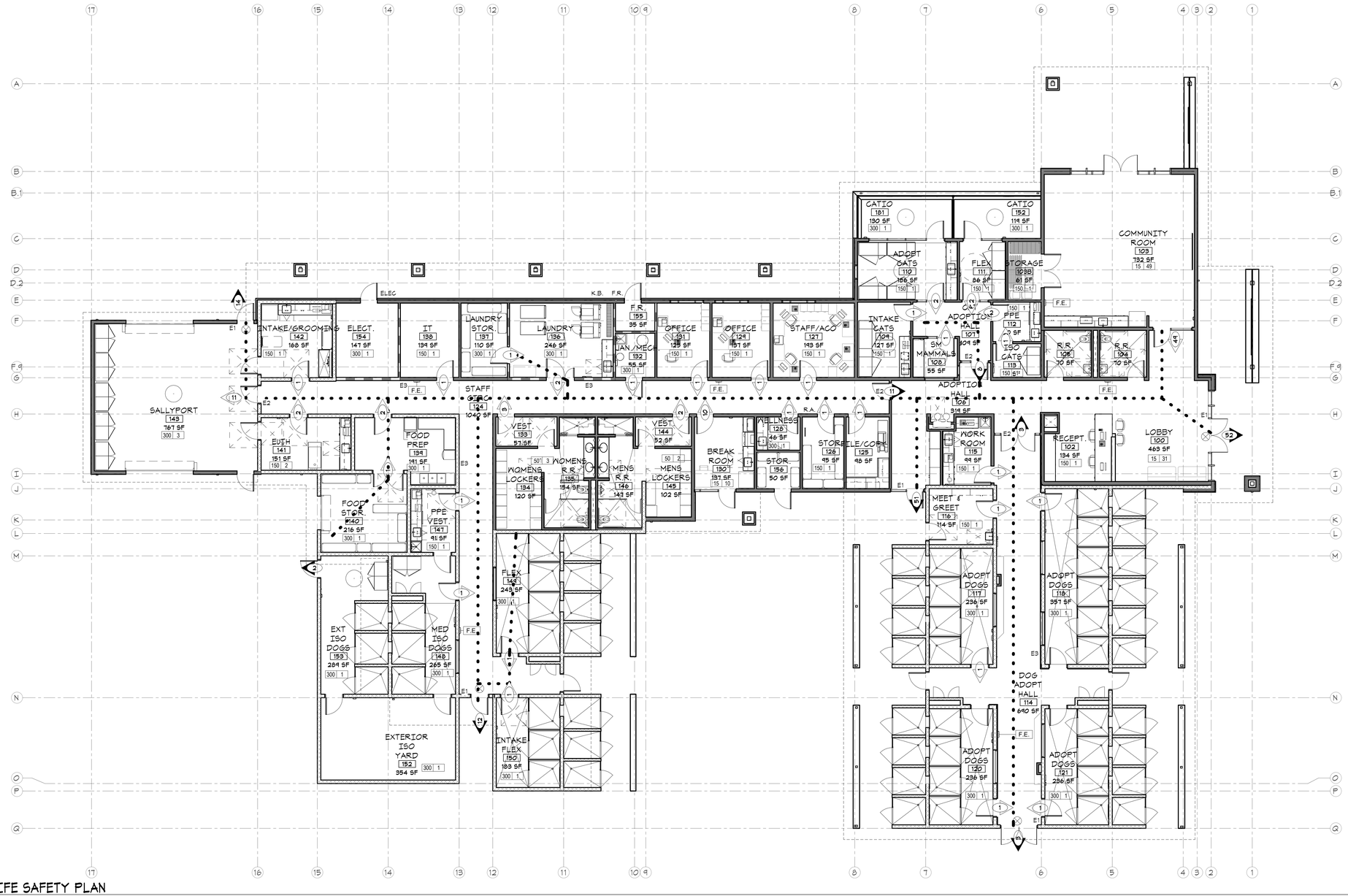
1. PROVIDE TACTILE EXIT SIGNS AT EACH EXIT SEE DETAIL 2/G3.00
2. PROVIDE ROOM IDENTIFICATION SIGNS AT EACH DOOR - SEE DETAIL 9/G3.00
3. FOR EXIT DOOR SIGNAGE MOUNTING LOCATIONS SEE DETAIL 10/G3.00
4. FOR SIGNAGE MOUNTING HEIGHTS SEE DETAIL 1/G3.00 2/G3.00
5. FOR RESTROOM DOOR & WALL SIGNAGE SEE DETAIL9 8/G3.00

LIFE SAFETY LEGEND

- 0 | 0 — ROOM OCCUPANT LOAD (SF/OLF)
- OCCUPANT LOAD FACTOR
- 5 — OCCUPANT LOAD FROM ROOM OR SPACE INDICATING DIRECTION OF TRAVEL
- 26 — CUMULATIVE OCCUPANT LOAD @ EXIT INDICATING DIRECTION OF TRAVEL
- 35' - 0" / 57' - 0" — COMMON PATH OF EGRESS TRAVEL DISTANCE / EXIT ACCESS TRAVEL DISTANCE
- PATH OF TRAVEL

SIGNAGE & DEVICES

F.E.	FIRE EXTINGUISHER CABINET OR BRACKET	14/G3.00
E1	"EXIT" SIGN - SEE	10/G3.00
E2	"EXIT ROUTE" SIGN - SEE	10/G3.00
E3	"DIRECTIONAL EXIT ROUTE" SIGN - SEE	10/G3.00
ISA	INTERNATIONAL SYMBOL OF ACCESSIBILTY	11/G3.00
M.O.	"MAXIMUM OCCUPANCY" SIGN - SEE	19/G3.00
R.A.	"ROOF ACCESS" SIGN - SEE	3/G3.00
ELEC.	"ELECTRICAL ROOM" SIGN - SEE	9/G3.00
F.R.	"FIRE RISER" SIGN - SEE	9/G3.00
K.B.	KNOX BOX LOCATION - REFER TO MUNICIPAL REQUIREMENTS	
⊗	BATTERY BACK-UP ILLUMINATED EXIT SIGN @ 8'-6" A.F.F. - REFER TO ELECT. DWGS.	



1 G2.00 LIFE SAFETY PLAN
1/8" = 1'-0"

OCCUPANT LOAD

ROOM NO.	ROOM NAME	AREA	LOAD FACTOR	OCC. LOAD
100	LOBBY	463 SF	15 SF	31
102	RECEPT.	134 SF	150 SF	1
103	COMMUNITY ROOM	732 SF	15 SF	49
103B	STORAGE	61 SF	300 SF	1
104	R.R.	70 SF	150 SF	1
105	R.R.	70 SF	150 SF	1
106	ADOPTION HALL	319 SF	150 SF	3
107	CAT ADOPTION HALL	104 SF	150 SF	1
108	SM MAMMALS	55 SF	300 SF	1
109	INTAKE CATS	127 SF	150 SF	1
110	ADOPT CATS	186 SF	300 SF	1
111	FLEX	86 SF	300 SF	1
112	PPE	60 SF	150 SF	1
113	ISO CATS	51 SF	300 SF	1
114	DOG ADOPT HALL	640 SF	150 SF	5
115	WORK ROOM	99 SF	150 SF	1
116	MEET & GREET	114 SF	150 SF	1
117	ADOPT DOGS	236 SF	300 SF	1
118	ADOPT DOGS	357 SF	300 SF	2
120	ADOPT DOGS	236 SF	300 SF	1
121	ADOPT DOGS	236 SF	300 SF	1
124	STAFF CIRC	1040 SF	150 SF	7
125	FILE/COPY	98 SF	150 SF	1
126	STOR.	45 SF	300 SF	1
127	STAFF/ACO	143 SF	150 SF	2
128	WELLNESS	46 SF	150 SF	1
129	OFFICE	137 SF	150 SF	1
130	BREAK ROOM	137 SF	15 SF	10
131	OFFICE	125 SF	150 SF	1
132	JAN./MECH.	55 SF	300 SF	1
133	VEST.	51 SF	150 SF	1
134	WOMENS LOCKERS	120 SF	150 SF	1
135	WOMENS R.R.	154 SF	150 SF	2
136	LAUNDRY	246 SF	150 SF	2
137	LAUNDRY STOR.	110 SF	300 SF	1
138	IT	134 SF	300 SF	1
139	FOOD PREP	141 SF	150 SF	2
140	FOOD STOR.	216 SF	300 SF	1
141	EUTH	151 SF	150 SF	2
142	INTAKE/GROOMING	168 SF	150 SF	2
143	SALLYPORT	767 SF	200 SF	4
144	VEST.	52 SF	150 SF	1
145	MENS LOCKERS	102 SF	150 SF	1
146	MENS R.R.	147 SF	150 SF	1
147	PPE VEST.	91 SF	150 SF	1
148	MED ISO DOGS	265 SF	300 SF	1
149	FLEX	243 SF	300 SF	1
150	INTAKE FLEX	183 SF	300 SF	1
152	EXTERIOR ISO YARD	354 SF	300 SF	2
152	CATIO	114 SF	300 SF	1
153	EXT ISO DOGS	284 SF	300 SF	1
154	ELECT.	147 SF	300 SF	1
155	F.R.	35 SF	300 SF	1
156	STOR.	50 SF	300 SF	1
181	CATIO	130 SF	300 SF	1

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

LICENSED ARCHITECT — C28388 — September 2027 — STATE OF CALIFORNIA

Client:
CITY OF LATHROP
390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/2026

LIFE SAFETY PLAN

G2.00

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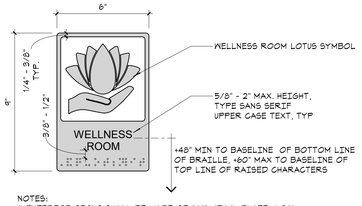
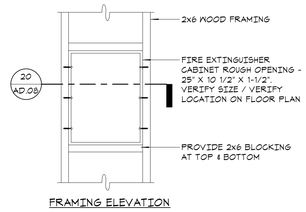


NOTES:
1. INTERIOR SIGNS SHALL BE MADE OF 1/4" VINYL PLATE, U.O.N.
2. CHARACTERS SYMBOLS & BACKGROUND SHALL HAVE A NON-GLARE FINISH
3. CHARACTERS & SYMBOLS SHALL CONTAST FROM THEIR BACKGROUND
4. RAISED CHARACTERS SHALL BE SANS SERIF & COMPLY WITH THE LATEST ADOPTED CBC CODE
5. CORNERS SHALL BE ROUNDED WITH 3/8" RADIUS, U.O.N.
6. BRAILLE SYMBOLS SHALL BE CONTRACTED GRADE 2 PER CBC 11B-703.3, DOMED OR ROUNDED AND DIMENSIONED PER TABLE CBC 11B-703.3.1. - TYP.
7. CLIENT TO SELECT SIGNAGE TYPE, U.O.N.

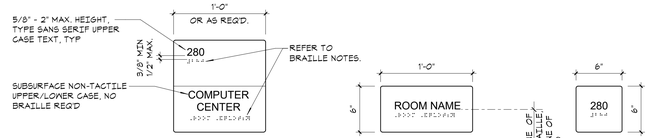
17 / 93.00 WELLNESS ROOM SIGNAGE
3" = 1'-0"



FRAMING ELEVATION

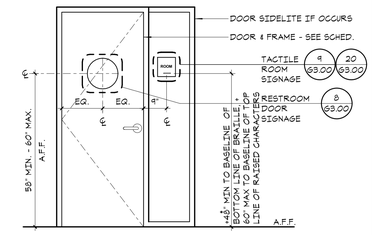
NOTE:
1. PLACE THE HEIGHT OF CABINET SO THAT THE TOP OF THE F.E. HANDLE IS 4'-0" A.F.F.

2. IT IS NOT REQUIRED TO ADD FRAMING IF THE CABINET WIDTH MATCHES THE SPACE BETWEEN THE STUDS OR IF 1 1/2" OF SHIM ON ONE SIDE WILL FILL THE SPACE ALONG WITH THE CABINET. INCREASE THE LENGTH OF THE SCREWS TO ADJUST FOR THE THICKNESS OF THE SHIM.



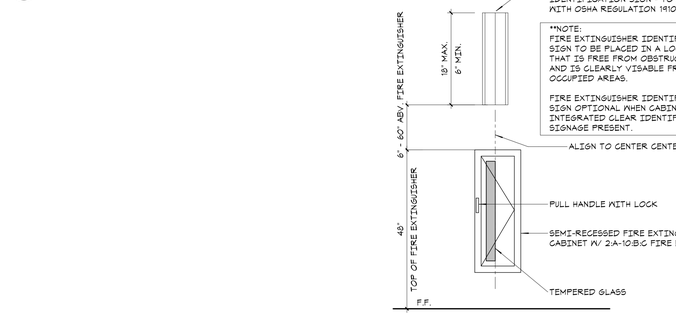
NOTES:
1. INTERIOR SIGNS SHALL BE MADE OF 1/4" VINYL PLATE, U.O.N.
2. CHARACTERS SYMBOLS & BACKGROUND SHALL HAVE A NON-GLARE FINISH
3. CHARACTERS & SYMBOLS SHALL CONTAST FROM THEIR BACKGROUND
4. RAISED CHARACTERS SHALL BE SANS SERIF
5. CORNERS SHALL BE ROUNDED WITH 1/4" RADIUS, U.O.N.
6. BRAILLE SYMBOLS SHALL BE CONTRACTED GRADE 2 PER CBC 11B-703.3, DOMED OR ROUNDED AND DIMENSIONED PER TABLE CBC 11B-703.3.1. TYP.

9 / 93.00 ROOM I.D. SIGNAGE - WALL MOUNT
1 1/2" = 1'-0"

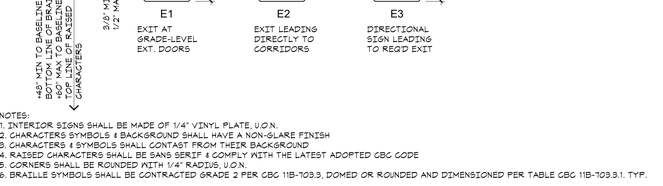


NOTE:
1. A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.
2. SIGNS SHALL BE LOCATED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR.
3. SIGNAGE INSTALLATION SHALL BE IN COMPLIANCE WITH 2022 CBC 11B-703.4.2

1 / 93.00 SIGNAGE MOUNTING HEIGHT
1/2" = 1'-0"

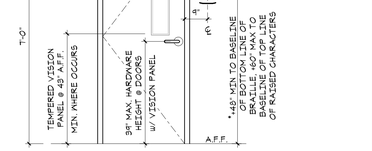


14 / 93.00 FIRE EXTINGUISHER CABINET
1" = 1'-0"

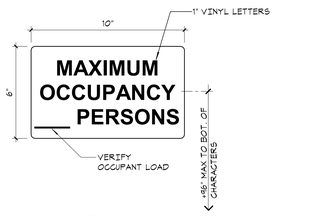


NOTES:
1. INTERIOR SIGNS SHALL BE MADE OF 1/4" VINYL PLATE, U.O.N.
2. CHARACTERS SYMBOLS & BACKGROUND SHALL HAVE A NON-GLARE FINISH
3. CHARACTERS & SYMBOLS SHALL CONTAST FROM THEIR BACKGROUND
4. RAISED CHARACTERS SHALL BE SANS SERIF & COMPLY WITH THE LATEST ADOPTED CBC CODE
5. CORNERS SHALL BE ROUNDED WITH 1/4" RADIUS, U.O.N.
6. BRAILLE SYMBOLS SHALL BE CONTRACTED GRADE 2 PER CBC 11B-703.3, DOMED OR ROUNDED AND DIMENSIONED PER TABLE CBC 11B-703.3.1. TYP.

10 / 93.00 EXIT SIGNAGE
1 1/2" = 1'-0"



2 / 93.00 EXIT DOOR SIGNAGE
1/2" = 1'-0"



NOTES:
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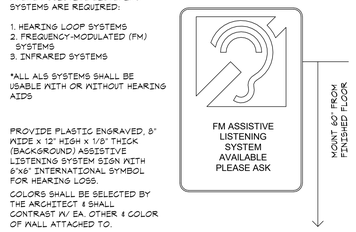
2. CHARACTERS SYMBOLS & BACKGROUND SHALL HAVE A NON-GLARE FINISH
3. CHARACTERS & SYMBOLS SHALL CONTAST FROM THEIR BACKGROUND
4. RAISED CHARACTERS SHALL BE SANS SERIF & COMPLY WITH THE LATEST ADOPTED CBC CODE
5. CORNERS SHALL BE ROUNDED WITH 1/4" RADIUS, U.O.N.

19 / 93.00 MAX. OCCUPANCY
3" = 1'-0"



PROVIDE ONE OF THE FOLLOWING WHERE ASSISTIVE LISTENING SYSTEMS ARE REQUIRED:

1. HEARING LOOP SYSTEMS
2. FREQUENCY-MODULATED (FM) SYSTEMS
3. INFRARED SYSTEMS

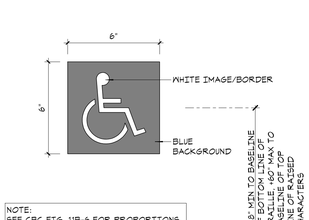
*ALL ALS SYSTEMS SHALL BE USABLE WITH OR WITHOUT HEARING AIDS

PROVIDE PLASTIC ENGRAVED, 8" WIDE X 12" HIGH X 1/8" THICK (BACKGROUND) ASSISTIVE LISTENING SYSTEM SIGN WITH 6"x6" INTERNATIONAL SYMBOL FOR HEARING LOSS.

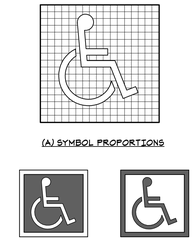
COLORS SHALL BE SELECTED BY THE ARCHITECT & SHALL CONTRAST W/ EA. OTHER & COLOR OF WALL ATTACHED TO.

COPY SHALL READ "FM ASSISTIVE LISTENING SYSTEM AVAILABLE PLEASE ASK "AND SHALL BE 5/8" HIGH SAN-SERIF LETTERS. PROVIDE STANDARD 3/32" RAISED BORDERS AND 1/2" RADIUS CORNERS.

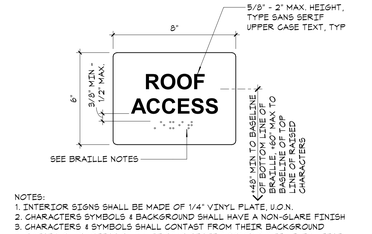
15 / 93.00 ASSISTIVE LISTENING SYSTEM
3" = 1'-0"



NOTE:
SEE CBC FIG. 11B-6 FOR PROPORTIONS.

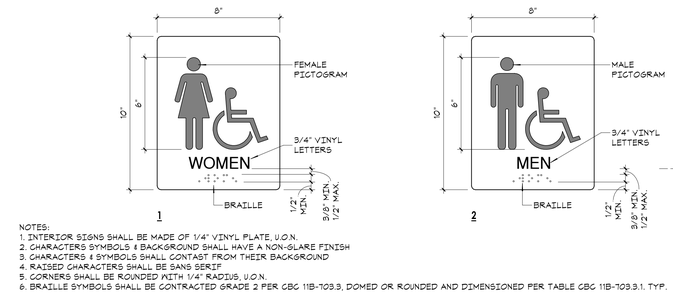


11 / 93.00 INT'L. SYMBOL OF ACCESSIBILITY
3" = 1'-0"



NOTES:
1. INTERIOR SIGNS SHALL BE MADE OF 1/4" VINYL PLATE, U.O.N.
2. CHARACTERS SYMBOLS & BACKGROUND SHALL HAVE A NON-GLARE FINISH
3. CHARACTERS & SYMBOLS SHALL CONTAST FROM THEIR BACKGROUND
4. RAISED CHARACTERS SHALL BE SANS SERIF & COMPLY WITH THE LATEST ADOPTED CBC CODE
5. CORNERS SHALL BE ROUNDED WITH 1/4" RADIUS, U.O.N.
6. BRAILLE SYMBOLS SHALL BE CONTRACTED GRADE 2 PER 2022 CBC 11B-703.3, DOMED OR ROUNDED AND DIMENSIONED PER TABLE 11B-703.3.1. TYP.
7. CLIENT TO SELECT SIGNAGE TYPE, U.O.N.

3 / 93.00 ROOF ACCESS SIGN
3" = 1'-0"



NOTES:
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2. CHARACTERS SYMBOLS & BACKGROUND SHALL HAVE A NON-GLARE FINISH
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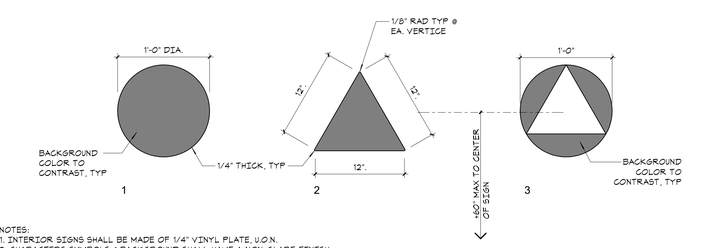
20 / 93.00 RESTROOM WALL I.D.
3" = 1'-0"



NOTES:
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3. CHARACTERS & SYMBOLS SHALL CONTAST FROM THEIR BACKGROUND
4. RAISED CHARACTERS SHALL BE SANS SERIFCORNERS SHALL BE ROUNDED WITH 1/4" RADIUS, U.O.N.
5. BRAILLE SYMBOLS SHALL BE CONTRACTED GRADE 2 PER CBC 11B-703.3, DOMED OR ROUNDED AND DIMENSIONED PER TABLE CBC 11B-703.3.1. TYP.

8 / 93.00 RESTROOM DOOR I.D.
1 1/2" = 1'-0"

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

LICENSED ARCHITECT — CHRISTOPHER WILLIAM WOOD — C28388 — September 2027 — STATE OF CALIFORNIA

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/2026

SIGNAGE DETAILS

G3.00

8/2/2026 4:59:06 PM

DOORS & HARDWARE

1. ALL ENTRANCES AND EXTERIOR GROUND-FLOOR EXIT DOORS TO BUILDINGS AND FACILITIES SHALL BE MADE ACCESSIBLE TO PERSONS WITH DISABILITIES. DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32 INCHES WITH THE DOOR OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP (SECTIONS 1010.1.1, 11B-404.2 AND 11B-404.2.3).
2. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES AND 44 INCHES ABOVE THE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY OT GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION (SECTIONS CFC 1010.1.9 AND CBC 11B-404.2.7)
3. PANIC HARDWARE: WHERE INSTALLED, SHALL COMPLY WITH THE REQUIREMENTS OF CBC 1010.2.9. THE ACTIVATING MEMBER SHALL BE MOUNTED AT A HEIGHT OF NOT LESS THAN 34 INCHES OR MORE THAN 44 INCHES ABOVE THE FLOOR. THE UNLATCHING FORCE SHALL NOT EXCEED 15 POUNDS WHEN APPLIED IN THE DIRECTION OF THE TRAVEL. (SECTION CFC 1010.1.10, 1010.1.10.1 AND CBC 11B-404.2.9). IF PANIC DEVICE OCCURS AT A DOOR WITH VISION PANEL, HARDWARE SHALL BE INSTALLED NO HIGHER THAN 39" A.F.F. U.O.N.
4. WIDTH AND HEIGHT: EVERY REQUIRED EXIT DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3 FEET IN WIDTH AND NOT LESS THAN 6 FEET, 8 INCHES IN HEIGHT WHEN INSTALLED IN EXIT DOORWAYS. EXIT DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SO MOUNTED THAT THE CLEAR WIDTH OF THE EXIT WAY IS NOT LESS THAN 32 INCHES (SECTIONS 1010.1.1 AND 11B-404.2.).
5. HINGED DOORS: THE OPENING WIDTH SHALL BE MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. WHERE A PAIR OF DOORS IS UTILIZED, AT LEAST ONE OF THE DOORS SHALL MEET THIS OPENING REQUEMENT. REVOLVING DOORS SHALL NOT BE USED AS A REQUIRED ENTRANCE FOR PERSONS WITH DISABILITIES (SECTIONS 11B-404.2.1, 11B-404.2.2 AND 11B-404.2.3).
6. THE MINIMUM WIDTH OF A SWINGING DOOR LEAF SHALL NOT EXCEED 48 INCHES (SECTION 1010.1.1).
7. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED NOT TO EXCEED 15 POUNDS (SECTIONS 1010.1.3, 1010.1.3.1 AND 11B-404.2.9).
8. DOOR AND GATE SURFACES: SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACES ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16" INCH OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED (SECTIONS 11B-404.2.10).
9. THRESHOLDS SHALL NOT EXCEED 1/2 INCHES IN HEIGHT, WITH A MAXIMUM 1/4-INCH VERTICAL AND CHANGES IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 (50% SLOPE) (SECTION 11B-404.2.5).
10. EXIT DOORS FROM GROUP 'A' OCCUPANCY SHALL NOT BE PROVIDED WITH A LATCH OR LOCK UNLESS IT IS PANIC HARDWARE (SECTION 1010.1.10).
11. RECESSED DOORMATS SHALL BE ADEQUATELY ANCHORED TO PREVENT INTERFERENCE WITH WHEELCHAIR TRAFFIC (SECTION 11B-302.1 AND 11B-302.2).
12. ALL GATES, INCLUDING TICKET GATES, SHALL MEET ALL APPLICABLE SPECIFICATIONS FOR DOORS (SECTION 11B-404.1 AND 11B-404.2).
13. DOOR CLOSING SPEED: DOOR AND GATE CLOSING SPEED SHALL COMPLY WITH SECTION 11B-404.2.8. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM. (SECTIONS 11B-404.2.8.1 AND 11B-404.2.8.2).
14. THE ACCESSIBLE WATER CLOSET COMPARTMENT SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC-CLOSING DEVICE, AND SHALL HAVE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 34 INCHES.
15. THE INSIDE AND OUTSIDE OF THE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELON THE LATCH. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST.
16. EXCEPTION: IN GROUPS A, DIVISION 3, B, F, M, AND S OCCUPANCIES AND IN ALL CHURCHES, KEY-LOCKING HARDWARE MAY BE USED ON THE MAIN EXIT WHEN THE MAIN EXIT CONSISTS OF A SINGLE DOOR OR PAIR OF DOORS IF THERE IS A READILY VISIBLE, DURABLE SIGN ON OR ADJACENT TO THE DOOR STATING 'THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS". THE SIGN SHALL BE IN LETTERS NOT LESS THAN 1 INCH ON A CONTRASTING BACKGROUND. WHEN UNLOCKED, THE SINGLE DOOR OR BOTH LEAVES OF A PAIR OF DOORS MUST BE FREE TO SWING WITHOUT OPERATION OF ANY LATCHING DEVICE. THE USE OF THIS EXCEPTION MAY BE REVOKED BY THE BUILDING OFFICIAL [FOR HCD 1&2] ENFORCING AGENCY FOR DUE CAUSE.
17. EXIT DOORS SHALL BE FURNISHED & INSTALLED WITH HARDWARE ALLOWING DOOR TO BE OPENED FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. PAIRS OF EXIT DOORS SHALL BE FURNISHED & INSTALLED WITH APPROVED AUTOMIAC FLUSH BOLTS ON ONE OF THE DOOR LEAVES AND NO SURFACE MOUNTED HARDWARE INSTALLED ON SAME LEAF. THE UNLATCHING OF BOTH DOOR LEAVES SHALL NOT REQUIRE MORE THAN ONE OPERATION.

RAMPS

1. ANY PATH OF TRAVEL SHALL BE CONSIDERED A RAMP IF ITS SLOPE IS GREATER THAN 1 FOOT OF VERTICAL RISE IN 20 FEET OF HORIZONTAL RUN (5% GRADIENT). THE LEAST POSSIBLE SLOPE SHALL BE USED FOR ANY RAMP (SECTION 11B-405.2).
2. WIDTH: PRIMARY ENTRANCE AND SPEGIAL OCCUPANCY, PEDESTRIAN RAMPS SERVING PRIMARY ENTRANCES TO BUILDINGS HAVING AN OCCUPANT LOAD OF 300 OR MORE SHALL HAVE A MINIMUM CLEAR IN WIDTH OF 60 INCHES. RAMPS SERVING GROUP R OCCUPANCIES MAY BE 36 INCHES CLEAR WIDTH WHEN THE OCCUPANT LOAD IS 50 OR LESS. ALL OTHER PEDESTRIAN RAMPS SHALL HAVE A MINIMUM WIDTH OF 48 INCHES (SECTION 11B-405.5).
3. SLOPE: THE MAXIMUM SLOPE OF A RAMP THAT SERVES ANY EXIT WAY THAT PROVIDES ACCESS FOR PERSONS WITH PHYSICAL DISABILITIES OR IS IN THE PATH OF TRAVEL SHALL BE 1 FOOT OF VERTICAL RISE IN 12 FEET OF HORIZONTAL RUN (8.3% MAX. GRADIENT) (SECTION 11B-405.2). THE CROSS SLOPE OF RAMP SURFACES SHALL BE NO GREATER THAN 1 UNIT VERTICAL IN 48 UNITS HORIZONTAL (SECTION 11B-405.3).
4. A GURB, 2 INCHES HIGH MINIMUM, OR BARRIER SHALL BE PROVIDED WHEN ADJACENTS THE PASSAGE OF A 4 INCH DIAMETER SPHERE, WHERE ANY PORTION OF THE SPHERE IS WITHIN 4 INCHES OF THE FINISH FLOOR OR GROUND SURFACE. TO PREVENT WHEEL ENTRAPMENT, THE CURB OR BARRIER SHALL PROVIDE A CONTINUOUS AND UNINTERRUPED BARRIER ALONG THE LENGTH OF THE RAMP.

WALKS AND SIDEWALKS

1. CONTINUOUS SURFACE: WALKS AND SIDEWALKS SUBJECT TO THESE REGULATIONS SHALL HAVE A CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/2 INCH AND SHALL BE A MINIMUM OF 48 INCHES IN WIDTH. LEVEL CHANGES GREATER THAT 1/4 INCH AND UP TO 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 (PER SECTION 11B-303.2 AND 11B-303.3). SURFACES SHALL BE SLIP RESISTANT AS FOLLOWS: SECTION 11B-302.1).
   - SLOPES LESS THAN 6 PERCENT: SLIP-RESISTANT AS DESCRIBED FOR A MEDIUM SALTED FINISH.
   - SLOPES 6 PERCENT OR GREATER: SHALL BE SLIP-RESISTANT.
   - SURFACE CROSS SLOPES: SHALL NOT EXCEED 1:48
2. GRATINGS: WALKS, SIDEWALKS, AND PEDESTRIAN WAYS SHALL BE FREE OF GRATING WHENEVER POSSIBLE. FOR GRATINGS LOCATED IN THE SURFACE OF ANY OF THESE AREAS, GRID OPENINGS IN GRATINGS SHALL BE LIMITED TO 1/2" (19 MM) IN THE DIRECTION OF TRAFFIC FLOW (SECTION 11B-302.3).
3. CHANGES IN LEVEL: ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2 INCH. WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAT 1 UNIT VERTICAL IN 2 UNITS HORIZONTAL. EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4 INCH MAY BE VERTICAL. WHEN CHANGES IN LEVELS GREATER THAN 1/2 INCH ARE NECESSARY THEY SHALL COMPLY WITH THE REQUIREMENTS FOR CURB RAMPS (SECTION 11B-303.4).
4. WARNING CURBS: ABRUPT CHANGES IN LEVEL, EXCEPT BETWEEN A WALK OR SIDEWALK AND AN ADJACENT STREET OR DRIVENAY, EXCEEDING 4 INCHES IN A VERTICAL DIMENSION, SUCH AS AT PLANTERS OR FOUNDATIONS LOCATED IN OR ADJACENT TO WAKS, SIDEWALKS OR OTHER PEDESTRIAN WAYS, SHALL BE INDENTIFIED BY CURBS PROJECTING AT LEAST 6 INCHES IN HEIGHT ABOVE THE WALK OR SIDEWALK SURFACE TO WARN THE BLIND OF A POTENTIAL DROP OFF. WHEN A GUARDRAIL OR HANDRAIL IS PROVIDED, NO CURB IS REQUIRED WHEN A GUIDE RAIL IS PROVIDED CENTERED 2 INCHES MINIMUM AND 4 INCHES MAXIMUM ABOVE THE SURFACE OF THE WALK OR SIDEWALK. (SECTION 11B-303.5).
5. PROVIDE A LEVEL AREA NOT LESS THAN REQUIRED (TABLE AND FIGURE 11B-404.2.4.1).
6. WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE LEVEL AREAS AT LEAST 5 FEET IN LENGTH AT INTERVALS OF 400 FEET MAXIMUM (SECTION 11B-403.7).
7. A 36 INCH WIDE DETECTABLE WARNING MATERIAL SHALL BE PROVIDED AT BOUNDARIES BETWEEN WALKWAYS AND VEHICULAR WAYS. MATERIAL SHALL COMPLY WITH SECTION 11B-705.1.1

SANITARY FACILITIES IDENTIFICATION

1. DOORWAYS LEADING TO MEN'S SANITARY FACILITIES SHALL BE INDENTIFIED BY AN EQUILATERAL TRIANGLE 1/4 INCH THICK WITH EDGES 12 INCHES LONG AND A VERTEX POINTING UPWARD. WOMEN'S SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRGLE, 1/4 INCH THICK AND 12 INCHES IN DIAMETER. UNISEX SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4 INCH THICK, 12 INCHES IN DIAMETER WITH A 1/4 INCH THICK TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12 INCH DIAMETER. THESE GEOMETRIC SYMBOLS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 60 INCHES AND THEIR COLOR AND CONTRAST SHALL BE DISTINGTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR.
2. SEE ACCESSIBLITY SIGNAGE CRITERIA FOR ADDITIONAL REQUIREMENTS.

BATHING AND TOILET FACILITIES

1. PASSAGEWAYS LEADING TO SANITARY FACILITIES SHALL HAVE A CLEAR ACCESS AS SPECIFIED IN SECTION 11B-402. ALL DOORWAYS LEADING TO SUCH SANITARY FACILITIES SHALL HAVE:
   - AN UNOBSTRUCTED CLEAR OPENING WIDTH OF 32 INCHES (813 MM).
   - A LEVEL AND CLEAR AREA NOT LESS THAN REQUIRED (TABLE AND FIGURE 11B-404.2.4.1)
2. BATHING FACILITIES (NOT APPLICABLE).
3. TOILET FACILITIES (SECTION 11B-603).
   - MULTIPLE-ACCOMMODATION TOILET FACILITIES SHALL HAVE THE FOLLOWING:
   - CLEAR SPACE: A WATER CLOSET FIXTURE LOCATED IN A COMPARTMENT SHALL PROVIDE A MINIMUM 17 INCHES AND 18 INCHES MAXIMUM FROM THE CENTERLINE OF THE WATER CLOSET TO THE WALL, EXCEPT THAT THE WATER CLOSET SHALL BE A MINIMUM 17 INCHES AND 19 INCHES MAXIMUM FROM THE CENTERLINE OF WATER CLOSET TO THE WALL IN AMBULATORY ACCESSIBLE TOILET COMPARTMENTS. A MINIMUM 48 INCHES LONG CLEAR SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET IF THE COMPARTMENT HAS AN END-APPROACH DOOR (FACING THE WATER CLOSET). A MINIMUM 56 INCH LONG CLEAR SPACE SHALL BE PROVIDED IN A COMPARTMENT WITH THE DOOR LOCATED AT THE SIDE AND OPENING OUT. GRAB BARS SHALL NOT PROJECT MORE THAN 3 INCHES IN THE CLEAR SPACES AS SPECIFIED ABOVE.
   - COMPARTMENT DOORS: WATER CLOSET COMPARTMENT SHALL BE EQUIPPED WITHA DOOR THAT HAS AN AUTOMATIC-GLOSING DEVICE, AND SHALL HAVE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32 INCHES MEASURED AT THE END AND 34 INCHES WHEN LOCATED AT THE SIDE WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION (SECTION 11B-604.8.1.2).
   - THE INSIDE AND OUTSIDE OF THE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELON THE LATCH, MOUNTING HEIGHT OF 34 INCHES TO 44 INCHES A.F.F. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING, OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST. EXCEPT FOR DOORS HAVING WIDTHS AND DOOR SWINGS, A CLEAR, UNOBSTRUCTED ACCESS OF NOT LESS THAN 44 INCHES SHALL BE PROVIDED TO WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY PERSONS WITH DISABILITIES AND WHEELCHAIRS. SECTION 11B-604.8.1.2). IMMEDIATELY IN FRONT OF A WATER CLOSET COMPARTMENT SHALL NOT BE LESS THAN 48 INCHES (1214 MM) AS MEASURED AT RIGHT ANGLES TO COMPARTMENT DOOR IN ITS CLOSED POSITION.
4. GRAB BARS
   - LOCATION: GRAB BARS LOCATED ON EACH SIDE, OR ONE SIDE AND THE BACK OF THE ACCESSIBLE TOILET STALL OR COMPARTMENT, SHALL BE SECURELY ATTACHED 33 INCHES MINIMUM AND 36 INCHES MAXIMUM ABOVE THE GRIPPING SURFACE ABOVE AND PARALLEL TO THE FLOOR. SIDE GRAB BARS SHALL BE 42 INCHES MINIMUM LOCATED 12 INCHES MAXIMUM FROM REAR WALL, EXTENDING 54 INCHES MINIMUM FROM THE REAR WALL WITH THE FRONT END POSITIONED 24 INCHES IN FRONT OF THE WATER CLOSET. BACK GRAB BARS SHALL BE 36 INCHES LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF WATER CLOSET 12 INCHES MINIMUM ON ONE SIDE AND 24 INCHES MINIMUM ON THE OTHER SIDE(SECTIONS 11B 609.4., 11B-604.5.1 AND 11B-609.7.1).
   - DIAMETER OR WIDTH: THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1-1/4 INCHES TO 2 INCHES (32 MM TO 38 MM) OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. IF GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THAT WALL AND GRAB BARS SHALL BE 1-1/2 INCHES (38 MM). SEE FIGURE 11B-609.2.2 (11B-609.2).
   - STRUCTURAL STRENGTH: THE STRUCTURAL STRENGTH OF GRAB BARS, TUB AND SHONER SEATS, FASTENERS, AND MOUNTING DEVICES SHALL MEET THE REQUREMENTS IN SECTIONS 11B-609.8. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS. (SECTION 11B-609.6)
   - SURFACE: A GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH (3.2 MM). (SECTION 11B-609.5)
5. TOILET ROOM FIXTURES AND ACCESSORIES
   - LAVATORY FIXTURES: A CLEAR FLOOR SPACE 30 INCHES BY 48 INCHES SHALL BE PROVIDED IN FRONT OF A LAVATORY TO ALLOW A FORWARD APPROACH. SUCH CLEAR FLOOR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE AND SHALL EXTEND A MAXIMUM OF 19 INCHES INTO KNEE AND TOE SPACE UNDERNEATH THE LAVATORY. (SECTIONS 11B-305.3 AND 11B-306.2.2, EXCEPTION)
   - MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTIVE SURFACE NO HIGHER THAN 40 INCHES FROM THE FLOOR. MIRRORS NOT LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTIVE SURFACE NO HIGHER THAN 35 INCHES FROM THE FLOOR (SECTION 11B-603.3).
   - WHERE TOWEL, SANITARY NAPKINS, WASTE RECEPTACLE, AND OTHER SIMILAR DISPENSING AND DISPOSAL FIXTURES ARE PROVIDED, AT LEAST ONE OF EACH TYPE SHALL BE LOCATED WITH ALL OPERABLE PARTS, INCLUDING COIN SLOTS, WITHIN 40 INCHES FROM THE FINISHED FLOOR (SECTION 11B-603.5).
   - TOILET TISSUE DISPENSERS SHALL BE LOCATED ON THE WALL WITHIN 7-9 INCHES OF THE FRONT EDGE OF THE TOILET SEAT, MOUNTED BELOW THE GRAB BAR, AT A MINIMUM HEIGHT OF 19 INCHES. DISPENSERS THAT CONTROL DELIVERY OR THAT DO NOT PERMIT CONTINUOUS PAPER FLON SHALL NOT BE USED. LIMIT THE PROJECTION OF A SURFACE OR SEMI-RECESSED MOUNTED DISPENSER FROM ENCROACHING MORE THAN 3 INCHES FROM THE FACE OF THE WALL OR PARTITION, AND NO CLOSER THAN 1-1/2 INCHES TO THE TANGENT POINT OF THE GRAB BAR (SECTION 11B-604.7).
   - WHERE URINALS ARE PROVIDED, AT LEAST ONE SHALL HAVE CLEAR FLOOR SPACE 30 INCHES BY 48 INCHES IN FRONT OF THE URINAL TO ALLOW FORWARD APPROACH (SECTION 11B-605.3).

DRINKING FOUNTAINS

1. THE FLOW OF WATER SHALL BE ACTIVATED BY A MANUALLY OPERATED SYSTEM THAT IS FRONT MOUNTED OR SIDE MOUNTED AND LOCATED WITHIN 6 INCHES OF THE FRONT EDGE OF THE FOUNTAIN OR AN AUTOMATIC ELECTRICALLY CONTROLLED DEVICE. CBC 11B-602.3
2. THE SPOUT SHALL BE LOCATED 15 INCHES MINIMUM FROM THE VERTICAL SUPPORT AND 5 INCHES MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS PER CBC 11B-602.5
3. THE SPOUT SHALL PROVIDE A FLON OF WATER 4 INCHES HIGH MINIMUM AND SHALL BE LOCATED 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT PER CBC 11B-602.6
4. WHERE THE SPOUTS ARE LOCATED LESS THAN 3 INCHES OF THE FRONT OF THE UNIT THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAXIMUM PER CBC 11B-602.6
5. WHERE THE SPOUTS ARE LOCATED BETWEEN 3 INCHES AND 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT, THAN ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAXIMUM PER CBC 11B-602.6
6. THE SPOUT OUTLETS OF DRINKING FOUNTAINS FOR STANDING PERSONS SHALL BE 38 INCHES MINIMUM AND 43 INCHES MAXIMUM ABOVE THE FINISHED FLOOR OR GROUND PER CBC 11B-602.7
7. WALL AND POST MOUNTED CANTILEVERED DRINKING FOUNTAINS SHALL BE 18 INCHES MINIMUM AND 19 INCHES MAXIMUM PER CBC 11B-602.8
8. THE PROTECTED AREA WITHIN WHICH A DRINKING FOUNTAIN IS LOCATED SHALL BE 32" WIDE MINIMUM AND 18 INCHES DEEP MINIMUM AND SHALL COMPLY WITH CBC 11B-305.7

LOCKERS

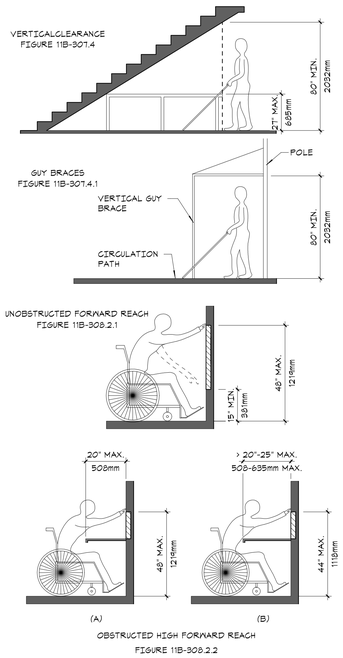
1. AT LEAST ONE LOCKER AND NOT LESS THAN 5% OF ALL LOCKERS SHALL BE MADE ACCESSIBLE TO PERSONS WITH DISABILITIES. (SECTION 11B-225.2.1)
2. A CLEAR FLOOR SPACE OF AT LEAST 30 INCHES BY 48 INCHES THAT ALLOWS EITHER A FORWARD OR PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED. (SECTION 11B-305)
3. HEIGHT: FOR FORWARD APPROACH, THE MAXIMUM HIGH FORWARD REACH SHALL BE 48 INCHES AND THE MINIMUM LON FORWARD REACH IS 15 INCHES. FOR PARALLEL APPROACH, THE MAXIMUM HIGH SIDE REACH SHALL BE 48 INCHES AND THE LON SIDE REACH SHALL BE MINIMUM 15 INCHES ABOVE THE FLOOR. (SECTION 11B-308)
4. HARDWARE: LATCH 4 LOCKING HARDWARE SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS OF FORCE. (SECTION 11B-309.4)

ACCESSIBILITY SIGNAGE

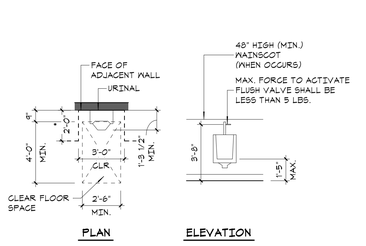
1. INTERNATIONAL SYMBOL OF ACCESSIBILITY: THE FOLLOWING ELEMENTS AND SPACES OF ACCESSIBLE FACILITIES SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY:
   - ACCESSIBLE PARKING SPACES.
   - ACCESSIBLE AREA OF REFUGE.
   - ACCESSIBLE PASSENGER LOADING ZONES.
   - ACCESSIBLE TOILET AND BATHING FACILITIES.
   - ALL MAIN ENTRY DOORS.
2. OTHER SIGNS: INACCESSIBLE BUILDING ENTRANCES, INACCESSIBLE PUBLIC TOILETS AND BATHING FACILITIES, AND ELEVATORS NOT ON AN ACCESSIBLE ROUTE SHALL BE PROVIDED WITH DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEARST SIMILAR ACCESSIBLE ELEMENT (SECTIONS 11B-216.3, 11B-216.6 AND 11B-216.9.2)
   - AT EXITS SERVING A REQUIRED ACCESSIBLE SPACE, BUT NOT PROVIDING AN APPROVED ACCESSIBLE MEANS OF EGRESS, SIGNS SHALL BE INSTALLED INDIGATING THE LOCATION OF ACCESSIBLE MEANS OF EGRESS. (SECTION 11B-216.4.3)
3. DESIGN: THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO INDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS AS SET FORTH IN THESE BUILDING STANDARDS AND AS SPECIFICALLY REQURED IN THESE NOTES (SECTION 11B-703.7.2.1).
4. COLOR OF SYMBOL: THE SYMBOL SPECIFIED ABOVE SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595B. (SECTION 11B-703.7.2.1)
   - EXCEPTION: THE APPROPRIATE ENORCEMENT AGENCY MAY APPROVE SPECIAL SIGNS AND IDENTIFICATION NECESSARY TO COMPLEMENT DECOR OR UNIQUE DESIGN WHEN IT IS DETERMINED THAT SUCH SIGNS AND IDENTIFICATION PROVIDE ADEQUATE DIRECTION TO PERSONS WITH DISABILITIES.(SECTION 11B-703.7.2.1, EXCEPTION)
5. CONTRAST AND FINISH: CHARACTER AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. THE (FINISH OF) CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH (SECTION 11B-703.5.1 AND 11B-703.7.1).
6. PROPORTIONS: CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER 'O' IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER 'I' (SECTION 11B-703.5.4).
7. CHARACTER HEIGHT: MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH TABLE 11B-703.5.5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER 'I' (SECTION 11B-703.5.5).
8. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL ALSO BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE (SECTION 11B-703.2).
9. RAISED CHARACTERS AND PICTORIAL SYMBOL SIGNS: WHEN RAISED CHARACTERS OR SYMBOLS ARE USED, THEY SHALL CONFORM TO THE FOLLOWING REQUIREMENTS (11B-703.2 AND 11B-703.4).
   - CHARACTER TYPE: LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32 INCH MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE. (SECTION 11B-703.2.1, 11B-703.2.3 AND 11B-703.3)
   - CHARACTER SIZE: RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8 INCH HIGH TO A MAXIMUM HEIGHT OF 2 INCHES. (SECTION 11B-703.2.5)
   - PICTORIAL SYMBOL SIGNS (PICTOGRAMS NONGEOMETRIC): PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELON THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE A MINIMUM OF 6 INCHES IN HEIGHT. (SECTION 11B-703.6.1)
   - CHARACTER PLACEMENT: CHARACTERS AND BRAILLE SHALL BE IN A HORIZONTAL FORMAT. BRAILLE SHALL BE PLACED A MINIMUM OF 3/8 INCH AND A MAXIMUM OF 1/2 INCH DIRECTLY BELON THE TACTILE CHARACTERS (FLUSH LEFT OR CENTERED). WHEN TACTILE TEXT IS MULTILINED, ALL BRAILLE SHALL BE PLACED TOGETHER BELOW ALL LINES OF TACTILE TEXT. (SECTION 11B-703.3.2)
10. BRAILLE: CONTRACTED (GRADE 2) BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH ON CENTER IN EACH CELL WITH 2/10 INCH SPACE BETWEEN CELLS DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH ABOVE THE BACKGROUND. BRAL DOTS SHALL BE DOMED OR ROUNDED (TABLE 11B-703.9.1).
11. MOUNTING LOCATION AND HEIGHT: WHERE PERMANENT IDENTIFICATION SIGNS ARE PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR ON THE APPROACH SIDE OF THE DOOR AS ONE ENTERS THE ROOM OR SPACE. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60 INCHES MAXIMUM ABOVE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS. (SECTION 11B-703.4.1 AND 11B-703.4.2).
12. ENTRANCE SIGNS: ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES SHALL BE INDENTIFIED WITH AT LEAST ONE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS (UTILIZING THE SYMBOL), AS REQUIRED AT JUNCTIONS WHERE THE ACCESSIBLE ROUTE OF TRAVEL DIVERGES FROM THE REGULAR CIRCULATION PATH, TO BE VISIBLE TO PERSONS ALONG APPROACHING CIRCULATION PATHS. (SECTION 11B-216.6)

ASSISTIVE LISTENING SYSTEMS

1. AN ASSISTIVE LISTENING SYSTEM SHALL BE PROVIDED IN ASSEMBLY AREAS, INCLUDING CONFERENCE AND MEETING ROOMS.
2. THE MINIMUM NUMBER OF RECEIVERS TO BE PROVIDED SHALL BE EQUAL TO 4

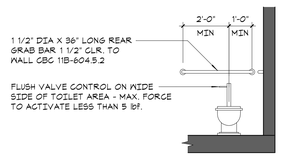


18 REACH LIMITS
64.01 3/8" = 1'-0"

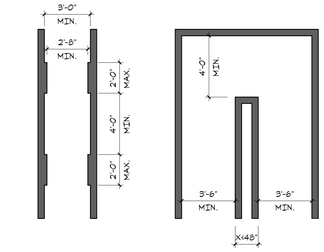


* WHEN URINAL OCCURS WITHIN AN ALCOVE DEEPER THAN 24" DEEP PROVIDE 3'-0" CLEAR, AS SHOWN.

9 URINAL
64.01 1/4" = 1'-0"

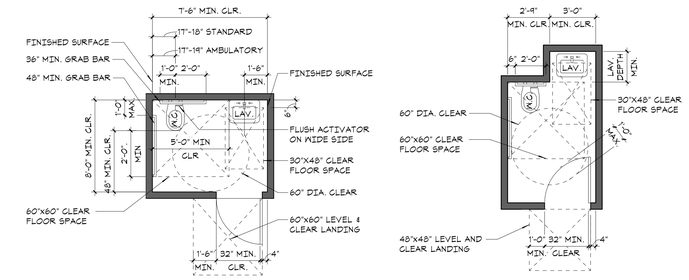


14 ACCESSIBLE WATER CLOSET
64.01 3/8" = 1'-0"

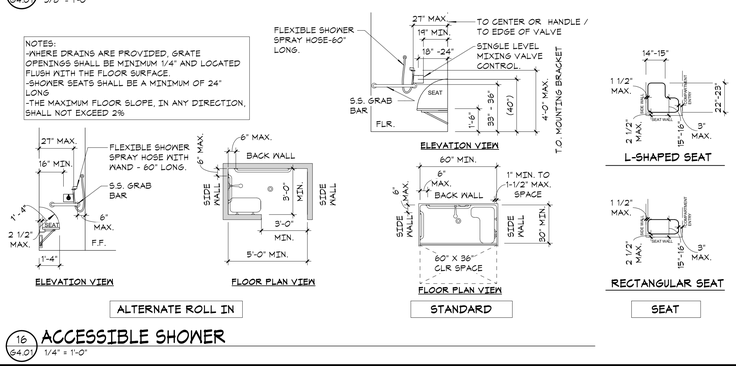


CLEAR WIDTH OF AN ACCESSIBLE ROUTE | CLEAR WIDTH AT TURN | ENTRANCE - FRONT APPROACH | VESTIBULE

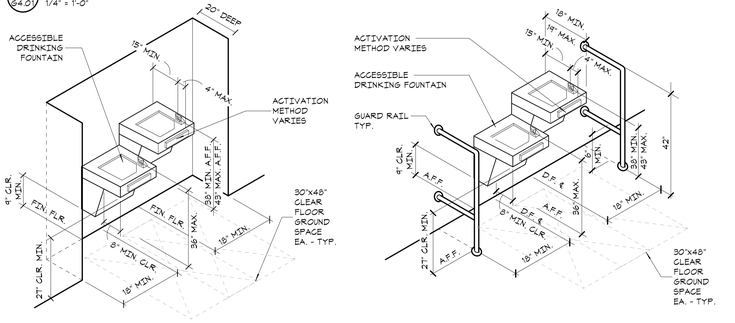
5 WHEEL CHAIR ACCESS
64.01 1/4" = 1'-0"



16 ACCESSIBLE SHOWER
64.01 1/4" = 1'-0"



15 LAVATORY COUNTER
64.01 3/8" = 1'-0"

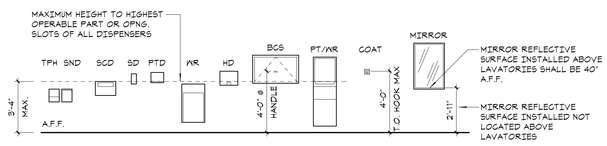


NOTE:
ALL PIPING UNDERNEATH LAVATORIES SHALL BE INSULATED OR COVERED

7 DRINKING FOUNTAIN IN ALCOVE
64.01 1/2" = 1'-0"

3 DRINKING FOUNTAIN
64.01 1/2" = 1'-0"

8 ELEVATION OF TOILET ACCESSORIES
64.01 1/4" = 1'-0"



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LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/2026

ACCESSIBILITY DETAILS

G4.01

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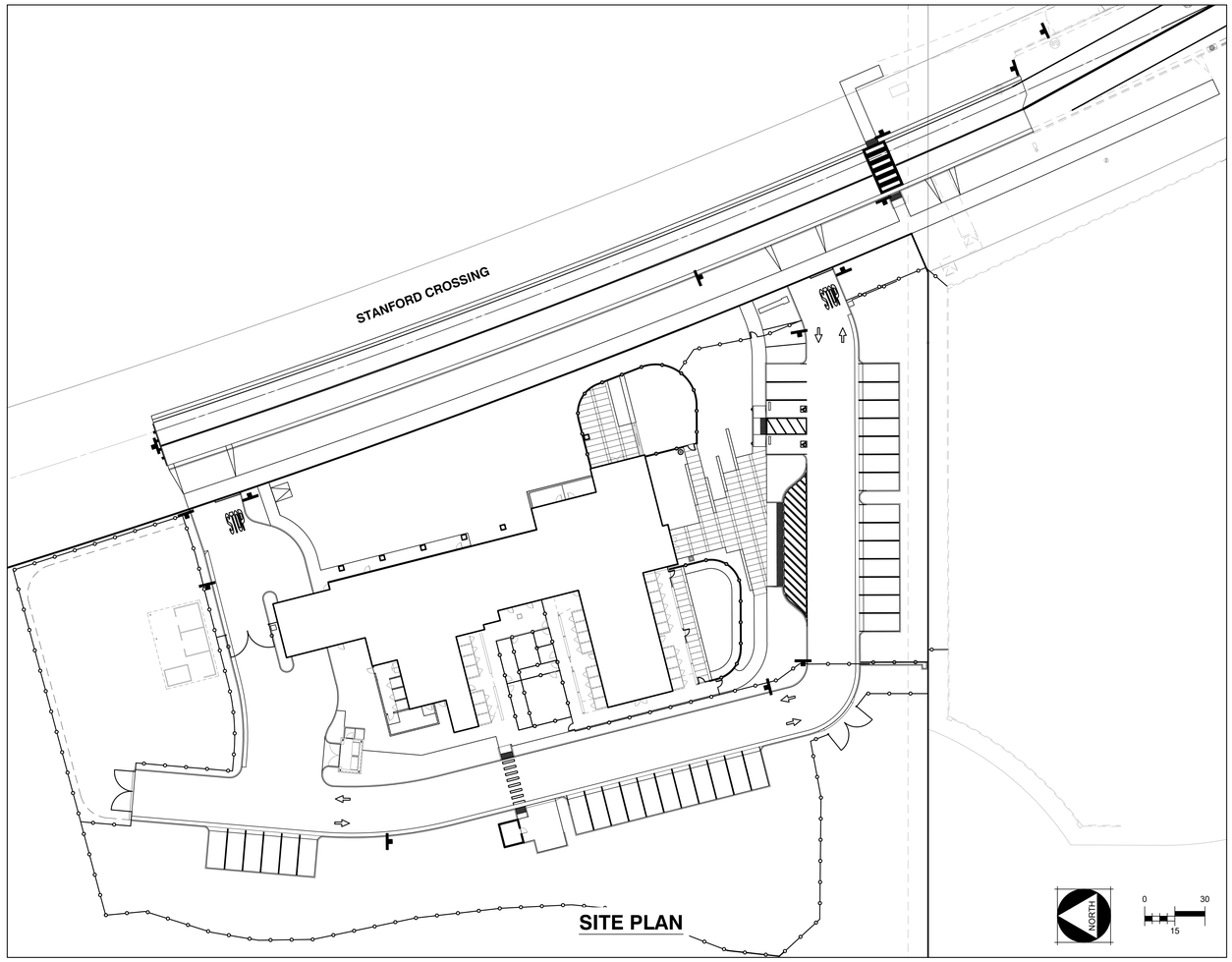
LEGEND

ITEM	EXISTING	PROPOSED
WATER VALVE		
AIR RELEASE VALVE		
BLOWOFF		
FIRE HYDRANT		
WATER METER	W	W
SEWER MANHOLE	S	S
STORM MANHOLE	SD	SD
DRAIN INLET		
CURB INLET		
CLEANOUT	SD	SD
SEWER MANHOLE NUMBER	EX	1
STORM STRUCTURE NUMBER	EX	1
WATER LINE	EX W	8"W
SANITARY SEWER	EX S	6"SS
STORM DRAIN	EX SD	12"SD
TYPICAL ELECTROLIER		
TYPICAL LUMINAIRE		
ELECTRICAL VAULT	E	E
SURVEY MONUMENT		
UTILITY POLE		
SIGNAGE		
ELEVATION	40.50TC 40.00P	40.50TC 40.00P
DIRECTION OF FLOW	2.00 %	2.00 %
ORIGINAL GROUND	× 40.59	N/A
BARBED WIRE FENCE		
WOOD FENCE		
RETAINING WALL		
MASONRY WALL		
CURB, GUTTER & SIDEWALK		
TYPICAL RETURN WITH HANDICAP RAMP		

IMPROVEMENT PLANS FOR:

LATHROP ANIMAL CENTER

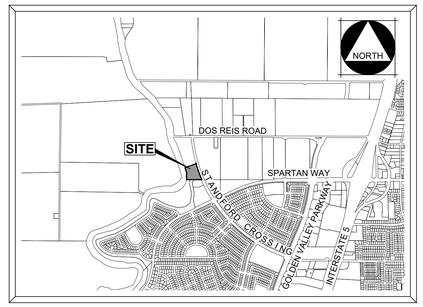
CITY OF LATHROP, SAN JOAQUIN COUNTY, CALIFORNIA



SITE PLAN

VICINITY MAP

NOT TO SCALE



SHEET INDEX

#	SHEET TITLE
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C4.0	TOPOGRAPIC SURVEY & DEMOLITION PLAN
C5.0	DIMENSION & PAVING PLAN
C6.0	GRADING & DRAINAGE PLAN
C6.1	GRADING DETAILS
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C7.0	UTILITY PLAN
C7.1	UTILITY PLAN DETAIL
C8.0	EROSION CONTROL PLAN
C9.0	SIGNAGE & STRIPING PLAN
C9.1	STANFORD CROSSING EXTENSION - SIGNING & STRIPING PLANS
F1.0	SITE FIRE ACCESS

FLOOD PLAIN

SUBJECT PROPERTY IS LOCATED WITHIN FLOOD ZONE "X", AREAS WITHIN ZONE "X" ARE DETERMINED TO BE OUTSIDE THE 1% ANNUAL CHANCE FLOOD PLAIN (AREA OF REDUCED FLOOD RISK DUE TO LEVEE) AS DETERMINED BY THE NATIONAL FLOOD INSURANCE PROGRAM. FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO.: 06077C0610F, DATED: 10-16-2009.

GEOTECHNICAL REPORT

REPORT BY: KRAZAN & ASSOCIATES, INC. (GEOTECHNINCAL ENGINEERING DIVISION)
PROJECT NO: 072-25094
DATED: FEBRUARY 18, 2026

TOPOGRAPHIC SURVEY

MCR ENGINEERING, INC.
FIELD SURVEY DATE: OCTOBER 30, 2024
& SUPPLEMENTAL FIELD SURVEY DECEMBER 9, 2025

PROPERTY OWNER

CITY OF LATHROP

BASIS OF BEARINGS

THE BEARING OF S64°56'12"W BETWEEN FOUND MONUMENTS OF THE CENTERLINE OF SPARTAN WAY, AS SHOWN IN BOOK 40 OF MAPS AND PLATS, PAGE 100, SAN JOAQUIN COUNTY RECORDS, WAS USED FOR ALL BEARINGS AS SHOWN ON SAID MAP

BENCHMARK

DESCRIPTION: CITY OF LATHROP POINT ID 1014 (1" PIN IN CONCRETE)
ELEVATION: 15.03 (NAVD88)
LOCATION: EXIT LATHROP ROAD FROM I-5. GO WEST ON LATHROP ROAD 0.05 MILES TO MANTHEY ROAD. GO NORTH ON MANTHEY ROAD 0.3 MILES TO DOS REIS ROAD.
MONUMENT IS LOCATED NEAR THE INTERSECTION OF MANTHEY ROAD AND DOS REIS ROAD, FOUND 115 FEET SOUTH OF THE CENTERLINE PROLONGATION OF DOS REIS ROAD, 1.5 FEET WESTERLY OF THE FREEWAY RIGHT-OF-WAY FENCE LINE ON THE EAST SIDE OF MANTHEY ROAD.

JURISDICTION

CITY OF LATHROP

EXISTING ZONING

P-CL, PARK

Know what's below.
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811 / 800-227-2600

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

Client:
CITY OF LATHROP

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING DRIVE
LATHROP, CA 95330

REGISTERED PROFESSIONAL ENGINEER
MARSHALL T. SWITT
No. C87497
CIVIL
STATE OF CALIFORNIA

MCR ENGINEERING
www.mcreng.com
MCR ENGINEERING, INC.
1242 DUPONT COURT
MANTECA, CA 95336
TEL : (209) 239 - 6229
FAX : (209) 239 - 8839

Project No.: 25-115
Drawn By: RP
Checked By: SLS, MS

No.	Description	Date

BID SET
6/23/2026

COVER SHEET

C1.0

Z:\my projects\2025\25-115 lathrop animal center\civil\engineering\plan\C1.0 COVER SHEET.dwg 12/19/2025 2:59:07 PM

CITY STANDARD NOTES:

A. THESE PLANS HAVE BEEN CHECKED BY THE CITY OF LATHROP AND/OR ITS AUTHORIZED REPRESENTATIVE, BUT SUCH CHECKING AND/OR APPROVAL DOES NOT RELIEVE THE DEVELOPER FROM HIS RESPONSIBILITY TO CORRECT ERRORS, OMISSIONS OR MAKE CHANGES REQUIRED BY CONDITIONS DISCOVERED IN THE FIELD DURING THE COURSE OF CONSTRUCTION.

B. ALL REVISIONS TO THIS PLAN MUST BE REVIEWED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION AND SHALL BE ACCURATELY SHOWN ON REVISED PLANS STAMPED AND SIGNED BY THE CITY PRIOR TO THE INSTALLATION OF THE IMPROVEMENTS.

C. ALL CONSTRUCTION AND MATERIAL SHALL CONFORM TO CITY OF LATHROP DESIGN AND CONSTRUCTION STANDARDS, THE PROJECT URBAN DESIGN CONCEPT (IF APPLICABLE), AND PER THE APPROVED PLANS. THE IMPROVEMENTS ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT. CONTACT PUBLIC WORKS CONSTRUCTION INSPECTION AT (209) 941-7450, AT LEAST THREE (3) WORKING DAYS PRIOR TO START OF ANY WORK TO ARRANGE FOR INSPECTION.

D. NOTIFY UNDERGROUND SERVICE ALERT (USA -NORTH) AT "811" OR (800) 227-2600 AT LEAST TWO (2) WORKING DAYS PRIOR TO EXCAVATION. THE USA AUTHORIZATION NUMBER SHALL BE KEPT AT THE JOB SITE.

E. IF NECESSARY TO CONFIRM FIELD LOCATIONS OF FACILITIES, EXPLORATORY TRENCHING OR POTHOLING SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR

F. IF A CONFLICT OCCURS BETWEEN THE CITY OF LATHROP DESIGN AND CONSTRUCTION STANDARDS AND THE RECOMMENDATIONS BY THE DESIGN ENGINEER AND/OR SOILS ENGINEER, THE MORE STRINGENT SHALL APPLY AS DIRECTED BY THE CITY ENGINEER.

G. BENCHMARK & BASIS OF ELEVATION DATUM SHALL BE CITY BENCHMARK 1032. NAVD 88 ELEVATION: 10.76 FEET. TRIANGLE WITH PUNCH AT BASE OF CITY HALL FLAG POLE.

H. THE EXISTING UTILITIES ARE PLOTTED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THESE UTILITIES. THE CONTRACTOR SHALL NOT EXCAVATE UNTIL ALL UTILITY AGENCIES AND THE CITY OF LATHROP HAVE BEEN NOTIFIED AND HAVE MARKED THEIR FACILITIES IN THE FIELD.

I. EXISTING UTILITIES SHALL NOT BE INTERRUPTED UNTIL THE UTILITY COMPANY HAS PROVIDED ALTERNATIVE SERVICE FACILITIES. THE CONTRACTOR SHALL COOPERATE AND COORDINATE HIS WORK WITH THE APPROPRIATE AGENCIES AND UTILITY COMPANIES.

J. FINAL PAVEMENT WORK SHALL NOT OCCUR WITHIN THE CITY RIGHT-OF-WAY PRIOR TO COMPLETION OF UTILITY RELOCATION WITHOUT THE SPECIFIC APPROVAL OF THE CITY ENGINEER.

K. ALL UTILITY TRENCHES IN EXISTING ROADWAY SHALL BE BACKFILLED AND OPENED TO PUBLIC TRAFFIC FOR A MINIMUM OF TWO WEEKS PRIOR TO PLACING PERMANENT PAVEMENT.

L. ALL CONSTRUCTION STAKING FOR GRADING, CURB, AND GUTTER, SIDEWALK, SANITARY SEWER, STORM DRAINS, WATER LINES, RECYCLED WATER, FIRE HYDRANTS, ELECTROLIERS, ETC. SHALL BE DONE BY MCR ENGINEERING.

M. ALL AREAS UNDERGOING GRADING, AND ALL OTHER CONSTRUCTION ACTIVITIES SHALL BE WATERED, OR OTHER DUST-PALLIATIVE MEASURES USED, TO PREVENT DUST, AS CONDITIONS WARRANT. WATER TRUCKS SHALL BE AVAILABLE AT ALL TIMES. THE PERSON RESPONSIBLE FOR DUST CONTROL, _____ AT ___-___-____, SHALL BE AVAILABLE 24 HOURS A DAY.

N. PRIOR TO RECEIVING/TAKING ANY WATER FROM THE CITY OF LATHROP WATER SYSTEM THE CONTRACTOR SHALL ACQUIRE A CITY WATER METER OR CITY FIRE HYDRANT METER. ALL WATER USAGE SHALL BE METERED.

O. ALL LINES ABANDONED DURING CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS.

P. PRIOR TO TRENCHING FOR ANY SEWER, WATER, RECYCLED WATER, OR STORM DRAIN PIPE, THE CONTRACTOR SHALL VERIFY, IN THE FIELD, THE SIZE AND THE LOCATION OF THE EXISTING PIPE AT THE POINT OF CONNECTION. ANY DEVIATION FROM THE PLANS SHALL BE RESOLVED BY THE DESIGN ENGINEER PRIOR TO TRENCHING. ANY DAMAGE CAUSED BY TRENCHING TO EXISTING UNDERGROUND UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

Q. ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH CITY STANDARD DETAILS. COMPACTION SHALL BE ACHIEVED BY MECHANICAL MEANS. NO FLOODING, PONDING, OR JETTING SHALL BE PERMITTED.

R. TESTING:
1. ALL INDEPENDENT LABORATORY INSPECTIONS CALLED FOR BY THE CITY ENGINEER WILL BE PAID FOR BY THE DEVELOPER OR CONTRACTOR.
2. ROADWAY SUB-GRADE, SUB-BASE, BASE, AND TRENCH BACKFILL COMPACTION TESTING SHALL BE PERFORMED BY A SOILS LAB CONTRACTING WITH THE CITY OF LATHROP A THE DEVELOPER'S EXPENSE.
3. R-VALUE TESTING OF THE PAVEMENT SUB-GRADE SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF BASE ROCK, OR AS REQUIRED BY THE CITY ENGINEER.
4. A MINIMUM OF 48 HOURS' NOTICE IS REQUIRED TO SCHEDULE ALL SPECIAL INSPECTION/TESTING SERVICES.

S. ASBESTOS CEMENT PIPE (ACP) OR VITRIFIED CLAY PIPE (VCP) OR FITTINGS SHALL NOT BE USED WITHIN THE CITY OF LATHROP.

T. EXISTING CURB, GUTTER AND SIDEWALKS WITHIN THE PROJECT LIMITS THAT ARE DAMAGED OR DISPLACED, SHALL BE REPAIRED OR REPLACED PER THE CITY DESIGN AND CONSTRUCTION STANDARDS BY THE CONTRACTOR.

U. NO TREES SHALL BE REMOVED UNLESS THEY ARE SHOWN AND NOTED TO BE REMOVED ON THE IMPROVEMENT PLANS. ALL TREES CONFLICTING WITH GRADING, UTILITIES, OR OTHER IMPROVEMENTS, OR OVERHANGING THE SIDEWALK OR PAVEMENT TO FORM A NUISANCE OR HAZARD, SHALL BE TRIMMED AND PROPERLY TREATED AND SEALED. THE DRIP LINE OF TREES TO BE SAVED WILL BE FENCED, AND NO GRADING SHALL TAKE PLACE WITHIN THIS FENCED AREA.

V. THE FULL STRUCTURAL SECTION OF THE MAJOR STREETS SHALL BE CONTINUED THROUGH THE INTERSECTIONS.

W. BENCHMARKS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AT LOCATIONS SHOWN. THE DEVELOPER'S ENGINEERS SHALL STAMP THE BENCHMARKS PER STANDARD DETAIL R-51 AND FURNISH THE CITY ENGINEER WITH THE BENCHMARK ELEVATION DATA.

X. STREET SIGNS SHALL BE INSTALLED AT ALL INTERSECTIONS THAT MEET THE UDC STANDARDS (IF APPLICABLE) PER CITY DESIGN AND CONSTRUCTION STANDARDS.

Y. TRAFFIC CONTROL DEVICES AND INSTALLATIONS SHALL BE IN CONFORMANCE WITH CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND MUST MEET THE UDC STANDARDS (IF APPLICABLE).

Z. ALL STREET MONUMENTS, LOT CORNER, BENCHMARKS AND OTHER PERMANENT PIPE OR MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED BY A LICENSED CIVIL ENGINEER OR SURVEYOR PRIOR TO ACCEPTANCE OF IMPROVEMENTS BY THE CITY. IF A MONUMENT IS LOCATED WITHIN THE BOUNDARY OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT THE ACKNOWLEDGEMENT OF MONUMENT RESPONSIBILITY "PRE-CONSTRUCTION" FORM, FOUND IN APPENDIX E OF THESE STANDARDS, TO THE CITY DURING THE ENCROACHMENT PERMIT APPLICATION PHASE. IN ADDITION, THE CONTRACTOR SHALL SUBMIT THE ACKNOWLEDGEMENT OF MONUMENT RESPONSIBILITY "POST-CONSTRUCTION" FORM, FOUND IN APPENDIX E OF THESE STANDARDS, TO THE CITY WHEN THE WORK IS COMPLETE.

AA. ESCPS MUST BE PREPARED CONSISTENT TO THE CITY'S DESIGN AND CONSTRUCTION STANDARDS AND ORDINANCES. SWPPPS MUST BE PREPARED BY A QUALIFIED SWPPP DEVELOPER AND BE COMPLIANT WITH THE STATE'S CONSTRUCTION GENERAL PERMIT. EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AT ALL TIMES DURING THE CONSTRUCTION PROJECT UNTIL FINAL SITE STABILIZATION IS ACHIEVED. THE PERSON RESPONSIBLE FOR THE DAILY MAINTENANCE OF THE FACILITIES IS _____ AND CAN BE REACHED 24 HOURS A DAY AT ___-___-____. THESE FACILITIES SHALL CONTROL AND CONTAIN EROSION-CAUSED SEDIMENT DEPOSITS AND PROVIDE FOR THE SAFE DISCHARGE OF SEDIMENT-FREE STORM WATER INTO EXISTING STORM DRAIN FACILITIES.

AB. IF THE PROJECT IS APPLICABLE TO THE STATE'S CONSTRUCTION GENERAL PERMIT, A NOTICE OF INTENT (NOI) TO COMPLY WITH THE NPDES GENERAL PERMIT FOR STORMWATER RUN-OFF ASSOCIATED WITH CONSTRUCTION ACTIVITY SHALL BE SUBMITTED TO THE SWRCB VIA THE STATE'S SMARTS SYSTEM. THE WDID# SHOULD BE INDICATED ON THE PLANS. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE SUBMITTED FOR APPROVAL BY THE CITY ENGINEER.

AC. IF, DURING CONSTRUCTION, ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED, CONSTRUCTION IN THE VICINITY SHALL BE HALTED, AN ARCHAEOLOGIST CONSULTED AND THE CITY COMMUNITY DEVELOPMENT DEPARTMENT NOTIFIED. IF, IN THE OPINION OF THE ARCHAEOLOGIST, THE REMAINS ARE SIGNIFICANT, MEASURES, AS MAY BE REQUIRED BY THE COMMUNITY DEVELOPMENT DIRECTOR, SHALL BE TAKEN TO PROTECT THEM.

AD. WORK SHALL BE RESTRICTED TO WEEKDAYS BETWEEN 8:00 AM TO 5:00 PM AND WEEKENDS BY CITY APPROVAL. WORK WHICH REQUIRES ANY TRAFFIC LANE CLOSURES OR RESTRICTING OF THE TRAVELED WAY SHALL BE LIMITED TO 9:00 AM TO 3:30 PM IN THE COMMUTE DIRECTION AND 8:00 AM TO 4:30 PM IN THE NON-COMMUTE DIRECTION.

AE. THE OVERTIME COST FOR INSPECTING WORK PERFORMED BEFORE 8:00 AM, AFTER 5:00 PM, WEEKENDS, AND HOLIDAYS, THAT REQUIRE CITY INSPECTION, SHALL BE PRE-PAID BY THE CONTRACTOR OR DEVELOPER BEFORE THE WORK IS AUTHORIZED.

AF. CONSTRUCTION EQUIPMENT WHICH OPERATES AT A NOISE LEVEL IN EXCESS OF 85 DECIBELS (MEASURED ON THE A-WEIGHTED SCALE DEFINED IN ANSI S-1.4) AT A DISTANCE OF 100 FEET FROM THE EQUIPMENT IS PROHIBITED.

AG. THE CONTRACTOR SHALL KEEP EXCAVATIONS FREE FROM WATER DURING CONSTRUCTION. THE STATIC WATER LEVEL SHALL BE DRAWN DOWN A MINIMUM OF 2 FEET BELOW BOTTOM OF EXCAVATIONS TO MAINTAIN AN UNDISTURBED STATE OF NATURAL SOILS AND ALLOW PLACEMENT OF FILL TO THE SPECIFIED DENSITY. DISPOSAL OF WATER SHALL NOT

AH. DISPOSAL OF WATER INTO THE CITY SANITARY SEWER SYSTEM IS STRICTLY PROHIBITED.

AI. DISPOSAL OF WATER INTO THE EXISTING STORM DRAIN SYSTEM MUST BE APPROVED IN WRITING BY THE CITY ENGINEER PRIOR TO DISPOSAL.

AJ. CONTRACTOR SHALL MAINTAIN ALL STREETS, SIDEWALKS, AND ALL OTHER PUBLIC RIGHT-OF-WAYS IN A CLEAN, SAFE, AND USABLE CONDITION THROUGHOUT THE COURSE OF CONSTRUCTION. ALL SPILLAGE OF SOIL, ROCK, CONSTRUCTION DEBRIS, ETC., SHALL BE REMOVED IMMEDIATELY FROM PUBLICLY OWNED PROPERTY. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC, SHALL BE MAINTAINED IN A CLEAN, SAFE, AND USABLE CONDITION. THE CONTRACTOR SHALL PROVIDE FOR SAFE, UNOBSTRUCTED ACCESS TO PRIVATE PROPERTY ADJACENT TO WORK THROUGHOUT THE PERIOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE TO THE PUBLIC WORKS DEPARTMENT THE NAME AND TELEPHONE NUMBER OF THE RESPONSIBLE PERSON AVAILABLE 24 HOURS A DAY IF ANY PROBLEMS OR CONDITIONS ARE NOT MET.

AK. ALL TRASH, CONSTRUCTION DEBRIS AND MATERIALS SHALL BE CONTAINED WITHIN PROPER CONTAINERS AND REMOVED ON A WEEKLY BASIS.

AL. THE CONTRACTOR SHALL KEEP ADJOINING PUBLIC STREETS AND PARKING AREAS FREE AND CLEAN OF PROJECT DIRT, MUD, AND MATERIALS DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTIVE MEASURES AS DIRECTED BY THE PUBLIC WORKS INSPECTOR AT NO EXPENSE TO THE CITY.

AM. A BUILDING PERMIT IS REQUIRED FOR CONSTRUCTION OF ALL RETAINING WALLS OVER 4 FEET IN HEIGHT MEASURED FROM THE BOTTOM OF THE FOOTING TO THE TOP OF THE WALL. PRIOR TO ACCEPTANCE OF THE IMPROVEMENTS AS COMPLETE, VERIFICATION THAT BUILDING INSPECTION HAS SIGNED OFF ON THE PERMIT SHALL BE PROVIDED TO THE PUBLIC WORKS INSPECTOR. ALL WOOD IN CONTACT WITH THE GROUND SHALL BE PRESSURE-TREATED, WHETHER A CONSTRUCTION PERMIT IS REQUIRED OR NOT.

AN. THE MANNER OF BRACING AND SHORING EXCAVATIONS SHALL BE AS SET FORTH IN THE RULES, ORDERS AND REGULATIONS OF THE STATE OF CALIFORNIA CONSTRUCTION SAFETY ORDERS, DIVISION OF INDUSTRIAL SAFETY.

AO. CONTRACTORS MAY BE REQUIRED AT THE DISCRETION OF THE CITY ENGINEER TO PROVIDE DRAWINGS OR CALCULATIONS BY A REGISTERED ENGINEER FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION FOR SPECIALLY DESIGNED BRACING AND SHORING OF AN EXCAVATION WHERE STANDARD PRE-MANUFACTURED BRACING OR SHORING CANNOT BE USED.

AP. CONTRACTORS SHALL SUBMIT A COPY OF THEIR CURRENT ANNUAL EXCAVATION PERMIT ISSUED BY THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY (CAL-OSHA) ALONG WITH THE CONTRACTOR'S OWN TRENCH SAFETY PLAN PRIOR TO THE START OF CONSTRUCTION.

AQ. PRIOR TO ANY WORK BEING PERFORMED, THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING WITH THE CITY OF LATHROP. THE CONTRACTOR SHALL PROVIDE THE CITY OF LATHROP 72 HOURS NOTICE TO SCHEDULE THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL ALSO NOTIFY THE BELOW LISTED PROJECT CONTACTS A MINIMUM OF 72 HOURS IN ADVANCE OF SAID MEETING.

CITY STORM DRAIN NOTES:

A. ALL PUBLIC STORM DRAIN LINES SHALL BE CLASS III OR HIGHER CLASS RCP OR POLYPROPYLENE PIPE TYPE "S" UP TO 36 UNLESS OTHERWISE SPECIFIED ON THE PLANS.

1. ALL PRE-CAST RCP SHALL BE OF WET CAST TYPE CONSTRUCTION. USE RUBBER GASKETED JOINTS CONFORMING TO THE REQUIREMENTS OF ASTM DESIGNATIONS C-76 AND C-443 AND SECTION 3 OF THE DESIGN AND CONSTRUCTION STANDARDS. ALTERNATIVE PIPE MATERIALS WILL BE EVALUATED ON A CASE-BY-CASE BASIS AND MUST BE PRE-APPROVED.

2. ALL POLYPROPYLENE PIPE SHALL BE DUAL WALL, TYPE "S" UP TO 36" MATERIAL FOR 12" - 36" PIPE AND FITTING PRODUCTION SHALL BE AN IMPACT MODIFIED COPOLYMER MEETING THE MATERIAL REQUIREMENTS OF ASTM F2764. FITTINGS SHALL BE BELL-AND-SPIGOT MEETING WATERTIGHT JOINT PERFORMANCE AND SHALL MEET REQUIREMENTS OF ASTM D3212. GASKETED BELL & SPIGOT CONNECTIONS SHALL UTILIZE A SPUN-ON, WELDED OR INTEGRAL BELL AND SPIGOT WITH GASKET MEETING ASTM F477.

   a. INSTALLATION: POLYPROPYLENE PIPE SHALL MEET STANDARD DETAIL R-52 FOR STORM DRAIN FLEXIBLE PIPE. FITTINGS SHALL BE LAID TO FORM A CLOSED CONCENTRIC JOINT WITH ADJOINING PIPE TO AVOID SUDDEN OFFSETS OF THE FLOW LINE. PIPE SECTIONS SHALL BE JOINED IN A WAY THAT THEY MEET OR EXCEED PERFORMANCE STANDARDS FOUND IN ASTM F2764.

   b. BACKFILL AND COMPACTION: FOLLOW STANDARD PLAN R-52 TO R-56 FOR FLEXIBLE PIPE FOR STORM DRAINAGE APPLICATIONS. APPROPRIATE COMPACTION METHODS SHALL BE UTILIZED IN ORDER TO UNIFORMLY COMPACT BACKFILL TO SPECIFIED DENSITIES. INAPPROPRIATE OR EXCESSIVE COMPACTION MAY DAMAGE THE PIPE AND DISTURB LINE AND GRADE. EACH LAYER SHALL BE UNIFORMLY COMPACTED WITH MECHANICAL MEANS AND GUIDELINES FOR FLEXIBLE PIPE. BEDDING, SHADING AND HAUNCH FOR FLEXIBLE PIPE SHALL BE 3/8 X DUST OR ALTERNATIVE APPROVED BY SENIOR CONSTRUCTION MANAGER.

   c. MINIMUM COVER OF POLYPROPYLENE PIPE SHALL BE AS FOLLOWS:

NOMINAL DIAMETER (IN)	MINIMUM COVER (IN)
4	24
6	24
8	24
10	24
12	24
15	24
18	24
24	24
30	24
36	25
42	29
48	33
60	40

   d. STORAGE AND HANDLING: STORE PIPES AND FITTINGS IN A WAY THAT PROTECTS GASKETS FROM WEATHER. PROTECT THE BELL END OF PIPES FROM DAMAGE. IF STACKED, TAKE MEASURES TO ENSURE LOWER PIPES ARE NOT DAMAGED FROM EXCESSIVE WEIGHT. COVER PIPES TO PROVIDE TEMPORARY SUN BLOCK, DO NOT STORE GASKETS NEAR ELECTRICAL OR EXHAUST HEAT SOURCES.

   e. THE CITY WILL REJECT PIPES WITH CRACKS OR SPLITS GASKETS.

B. UNLESS NOTED OTHERWISE, ALL STORM DRAIN MANHOLES ARE TYPE I (PER STD. DETAIL D-8) AND ALL CURB INLETS SHALL BE TYPE I INLETS (SEE STD. DETAIL D-4) OR TYPE II (SEE STD. DETAIL D-5). "SANTA ROSA" STYLE INLETS, WHICH HAVE A GRATELESS INLET, SHALL ONLY BE USED WITH APPROVAL FROM THE CITY ENGINEER. A TYPE II MANHOLE (SEE STANDARD DETAIL D-9) SHALL BE USED FOR ALL PIPES GREATER THAN 24" IN DIAMETER.

C. ALL STORM DRAIN INLETS SHALL BE LABELED PER STANDARD DETAIL D-2 "NO DUMPING - FLOWS TO RIVER" USING AN APPROVED METHOD.

D. STORM DRAIN CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 3 OF THE DESIGN AND CONSTRUCTION STANDARDS AND THE STANDARD DETAILS.

E. THE CONTRACTOR IS TO BE RESPONSIBLE FOR ALL TESTING OF STORM DRAIN FACILITIES. CONTRACTOR SHALL CLEAN, FLUSH AND PROVIDE VIDEO INSPECTION OF ALL STORM DRAIN LINES TO THE SATISFACTION OF THE PUBLIC WORKS INSPECTOR.

CITY SANITARY SEWER NOTES:

A. SANITARY SEWER CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 5 OF THE DESIGN AND CONSTRUCTION STANDARDS AND THE STANDARD DETAILS.

B. SEWER SERVICE LATERALS SHALL BE 4-INCHES MINIMUM INSIDE DIAMETER.

C. THE LOCATION OF SEWER SERVICES IN NEW SUBDIVISIONS SHALL BE MARKED BY THE CONCRETE CONTRACTOR WITH THE LETTER "S" STAMPED ON THE TOP OF CURB. THE UNDERGROUND CONTRACTOR SHALL PROVIDE SUFFICIENT RECORDS AND SHALL LEAVE ADEQUATE CURB MARKING IN THE FIELD FOR THE CONCRETE CONTRACTOR TO ACCURATELY STAMP THE LETTER "S" FOR ALL SEWER SERVICES, PRIOR TO PLACING ANY SIDEWALK OR CURB & GUTTER. THE CONCRETE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL DRIVEWAYS AND SEWER LATERALS BEFORE POURING THE CURB, AND FURNISH DATA TO THE CITY'S CONSTRUCTION INSPECTOR SHOWING HE HAS ADEQUATE INFORMATION TO ACCURATELY FIELD LOCATE AND MARK THE LETTER "S" TO BE STAMPED IN HIS WORK, PRIOR TO FINAL TROWELING OF THE CONCRETE. THE CITY OF LATHROP'S CONSTRUCTION INSPECTOR SHALL DETERMINE THAT THE LETTER "S" HAS BEEN STAMPED IN THE PROPER LOCATION.

D. ALL SANITARY SEWER MAINS SHALL PASS A LEAKAGE TEST IN CONFORMATION WITH SECTION 5 OF THE DESIGN AND CONSTRUCTION STANDARDS, AND THE STANDARD DETAILS, FLUSHED WITH AN APPROVED SEWER BALL, MANDREL TESTED AND TELEVISION INSPECTED (TAPES OR OTHER APPROVED MEDIA SHALL BE GIVEN TO THE CITY ENGINEER) PRIOR TO ACCEPTANCE BY THE CITY. ALL TESTING SHALL BE PERFORMED AFTER THE COMPACTION FOR STREET BASE ROCK AND PRIOR TO PAVING.

E. PRIOR TO ANY WORK ON THE SANITARY SEWER LINES, A QUALITY CONTROL PLAN SHALL BE APPROVED IN WRITING BY THE CITY ENGINEER. THE PLAN MAY INCLUDE SPECIAL TESTING BY AN INDEPENDENT LABORATORY AND CONTINUOUS INSPECTION OF THE SEWER PIPE CONSTRUCTION.

F. ALL SANITARY SEWER MANHOLES SHALL BE VACUUM TESTED PRIOR TO BACKFILL PER ASTM C-1244.

GENERAL NOTES:

1. THE CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSE FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE. ALL CENTERLINE AND/OR SURVEY MONUMENTS SHALL BE PRESERVED OR RESET AT THE END OF CONSTRUCTION.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE PHYSICAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION, AND SHALL NOTIFY UTILITY COMPANIES FORTY-EIGHT HOURS IN ADVANCE OF ANY CONSTRUCTION (UNDERGROUND SERVICE ALERT 1-800-227-2600). UTILITY COMPANY(S) SHALL BE RESPONSIBLE TO ADJUST TO PROPOSED PAVEMENT OR CONCRETE GRADE ALL SURFACE FACILITIES, UNLESS OTHERWISE NOTED IN THESE PLANS.

3. THE INTENT IS THAT THESE PLANS REQUIRE ALL LABOR AND MATERIALS (EXCEPT AS SPECIFIED IN THE SPECIFICATIONS) NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES AND AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS. IF THE PLANS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY APPROVED MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO USED.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF PROJECT.

6. ALL WORK IN PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE APPROVAL AND ACCEPTANCE OF CITY OF LATHROP PUBLIC WORKS DEPARTMENT.

7. ALL PROPERTY LINES AND EASEMENTS SHOWN ON THESE PLANS ARE BASED ON AVAILABLE RECORDED DOCUMENTS.

8. THE CONTRACTOR SHALL LAYOUT IMPROVEMENTS FROM THE DIMENSIONS SHOWN ON THESE PLANS. ANY CLARIFICATION ON CONFLICTS, DISCREPANCIES OR AMBIGUITIES SHOULD BE DIRECTED TO THE OWNER'S REPRESENTATIVE PRIOR TO THE CONSTRUCTION OF THE IMPROVEMENTS.

CITY WATER NOTES:

A. WATER LINES SHALL BE LOCATED A MINIMUM OF 10 FEET HORIZONTALLY FROM SEWER MAINS. CROSSING SHALL MEET STATE HEALTH STANDARDS. SEWER LINE NEEDS TO BE ONE (1) FOOT BELOW WATER LINE.

B. THE CONTRACTOR IS TO BE RESPONSIBLE FOR ALL TESTING AND DISINFECTING OF WATER LINES IN CONFORMANCE WITH THE REQUIREMENTS OF THE CITY OF LATHROP PRIOR TO FINAL ACCEPTANCE. ALL WATER LINES SHALL BE PRESSURE-TESTED, DISINFECTED, FLUSHED, AND TESTED FOR BACTERIA IN CONFORMANCE WITH SECTION 4 OF THE DESIGN AND CONSTRUCTION STANDARDS PRIOR TO FINAL ACCEPTANCE BY THE CITY. THE MAXIMUM LENGTH OF PIPELINE TO BE TESTED AT A TIME SHALL BE LIMITED TO 5,000 FEET. ALL NEW VALVES SHALL BE EXERCISED DURING THE PRESSURE TEST.

C. ACTUAL CONNECTIONS TO EXISTING CITY OF LATHROP WATER LINES WILL NOT BE PERMITTED PRIOR TO COMPLETION OF STERILIZATION AND TESTING OF THE WATER MAINS. ALL EXISTING WATER VALVES ARE TO BE OPERATED UNDER THE DIRECTION OF AUTHORIZED CITY OF LATHROP PERSONNEL ONLY.

D. WATER SERVICES SHALL BE AS PER SECTION 4 OF THE DESIGN AND CONSTRUCTION STANDARDS AND STANDARD DETAILS FOR WATER.

E. THE LOCATION OF WATER SERVICES IN NEW SUBDIVISIONS SHALL BE MARKED BY THE CONCRETE CONTRACTOR WITH THE LETTER "W" STAMPED ON THE TOP CURB. THE UNDERGROUND CONTRACTOR SHALL PROVIDE SUFFICIENT RECORDS AND SHALL LEAVE ADEQUATE MARKS IN THE FIELD FOR THE CONCRETE CONTRACTOR TO ACCURATELY STAMP THE LETTER "W" FOR ALL WATER SERVICES, PRIOR TO THE PLACING OF ANY SIDEWALK OR CURB AND GUTTER. THE CONCRETE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL DRIVEWAYS AND WATER SERVICES BEFORE POURING THE CURB, AND FURNISH DATA TO THE CITY OF LATHROP'S FIELD INSPECTOR SHOWING HE HAS ADEQUATE INFORMATION TO ACCURATELY FIELD LOCATE AND MARK THE LETTER "W" TO BE STAMPED IN THE CURB. PRIOR TO THE FINAL TROWELING OF THE CONCRETE, THE CITY OF LATHROP'S CONSTRUCTION INSPECTOR SHALL VERIFY THAT THE LETTER "W" HAS BEEN STAMPED IN THE PROPER LOCATION.

F. THE TYPICAL ANGLE METER STOP AT THE END OF THE WATER SERVICE SHALL BE PER SECTION 4 OF THE DESIGN AND CONSTRUCTION STANDARDS AND STANDARD DETAILS FOR WATER.

G. ALL CONSTRUCTION WATER SHALL BE PURCHASED FROM THE CITY OF LATHROP AND SHALL BE METERED BY USE OF A CITY HYDRANT METER.

H. ALL DEAD ENDS, CAPPED OR FLANGED, INCLUDING FUTURE SERVICE STUBS, TEES, ELBOW BENDS AND BLOW-OFFS, TEMPORARY OR PERMANENT, SHALL HAVE THRUST BLOCKS INSTALLED AS PER SECTION 4 OF THE DESIGN AND CONSTRUCTION STANDARDS, AND PER STANDARD DETAILS FOR WATER, OTHERWISE MEGALUG JOINT RESTRAINTS MUST BE PROVIDED.

I. FIRE HYDRANTS TEES ARE TO BE PLACED AT LOCATIONS APPROVED BY THE FIRE DISTRICT OR AS SHOWN ON THE PLANS.

J. FLANGE JOINTS ARE REQUIRED WHEN INSTALLING FOUR INCH (4") AND LARGER LINE VALVES IN STEEL PIPE. NO OTHER TYPE OF JOINT SHALL BE USED WITHOUT SPECIFIC APPROVAL OF THE CITY ENGINEER.

K. ALL CONNECTIONS AND SERVICE TAPS TO EXISTING CITY OF LATHROP MAINS SHALL BE MADE WITHOUT DEPRESSURIZING THE MAIN, UNLESS PRIOR APPROVAL IS GIVEN BY THE CITY ENGINEER.

L. FIRE HYDRANTS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE SECTION 4 OF THE DESIGN AND CONSTRUCTION STANDARDS AND STANDARD DETAILS FOR WATER.

M. ALL NUT/BOLT KITS TO BE INSTALLED BELOW GRADE SHALL BE 316 GRADE STAINLESS STEEL.

N. ALL HYDRANTS SHALL BE NUMBERED ON THE PLANS USING NOMENCLATURE APPROVED BY THE PUBLIC WORKS DIRECTOR.

ABBREVIATION LIST

@	AT
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ADA	AMERICAN DISABILITIES ACT
BC	BEGINNING OF CURVE
BDRY	BOUNDARY
BSL	BUILDING SET BACKLINE
BVC	BEGIN VERTICAL CURVE
BW	BOTTOM WALL
C	CONCRETE
CB	CATCH BASIN
CI	CURB INLET
CIP	CAST IN PLACE PIPE
CL	CENTER LINE
CO	CLEAN OUT
CONC	CONCRETE
COL	CITY OF LATHROP
CR	CURB RETURN
CRN	ROAD CROWN
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DO	DRIVE OVER
DW	DRIVEWAY
EC	END OF CURVE
EG	EXISTING GROUND
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EVA	EMERGENCY VEHICLE ACCESS
EVC	END OF VERTICAL CURVE
EX. (EX), EXIST	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
G	GROUND
GB	GRADE BREAK
GW	GREASE WASTE
HGL	HYDRAULIC GRADE LINE
HP	HIGH POINT
INV	INVERT
IRR	IRRIGATION
LF	LINEAL FEET OR LINEAR FEET
LP	LOW POINT
MAX	MAXIMUM
MH	MAINTENANCE HOLE
MIN	MINIMUM
MS4	MUNICIPAL SEPARATE STORM SEWER SYSTEM
NTS	NOT TO SCALE
OG	ORIGINAL GROUND / GRADE
(

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	GARRETT KAPRIELIAN 831-998-1067 GARRETT.KAPRIELIAN@ADSPIPE.COM
ADS SALES REP:	SCOTT VANMETER 559-906-3319 SCOTT.VANMETER@ADSPIPE.COM
PROJECT NO:	S522146

Advanced Drainage Systems, Inc.

LATHROP ANIMAL CENTER

LATHROP, CA

BAYFILTER SPECIFICATIONS

PRODUCTS

A. INTERNAL COMPONENTS: ALL COMPONENTS INCLUDING CONCRETE STRUCTURE(S), PVC MANIFOLD PIPING AND FILTER CARTRIDGES, SHALL BE PROVIDED BY ADVANCED DRAINAGE SYSTEMS, INC.

B. PVC MANIFOLD PIPING: ALL INTERNAL PVC PIPE AND FITTINGS SHALL MEET ASTM D1785. MANIFOLD PIPING SHALL BE PROVIDED TO THE CONTRACTOR PARTIALLY PRE-CUT AND PRE-ASSEMBLED.

C. FILTER CARTRIDGES: EXTERNAL SHELL OF THE FILTER CARTRIDGES SHALL BE SUBSTANTIALLY CONSTRUCTED OF POLYETHYLENE OR EQUIVALENT MATERIAL ACCEPTABLE TO THE MANUFACTURER. FILTRATION MEDIA SHALL BE ARRANGED IN A SPIRAL LAYERED FASHION TO MAXIMIZE AVAILABLE FILTRATION AREA. AN ORIFICE PLATE SHALL BE SUPPLIED WITH EACH CARTRIDGE TO RESTRICT THE FLOW RATE TO A MAXIMUM OF 45 GPM.

D. FILTER MEDIA: FILTER MEDIA SHALL BE BY ADVANCED DRAINAGE SYSTEMS, INC. AND SHALL CONSIST OF THE FOLLOWING MIX: A BLEND OF ZEOLITE, PERLITE AND ACTIVATED ALUMINA.

E. PRECAST CONCRETE VAULT: CONCRETE STRUCTURES SHALL BE PROVIDED ACCORDING TO ASTM C. THE MATERIALS AND STRUCTURAL DESIGN OF THE DEVICES SHALL BE PER ASTM C478, C857 AND C858.

PERFORMANCE

A. THE STORMWATER FILTER SYSTEM SHALL BE AN OFFLINE DESIGN CAPABLE OF TREATING 100% OF THE REQUIRED TREATMENT FLOW AT FULL SEDIMENT LOAD CONDITIONS.
B. THE STORMWATER FILTER SYSTEM'S CARTRIDGES SHALL HAVE NO MOVING PARTS.
C. THE STORMWATER TREATMENT UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 85% OF SUSPENDED SOLIDS, 65% OF TOTAL PHOSPHORUS, 65% OF TURBIDITY, 40% OF TOTAL COPPER, AND 40% OF TOTAL ZINC BASED ON FIELD DATA COLLECTED IN COMPLIANCE WITH THE TECHNOLOGY ACCEPTANCE RECIPROCITY PARTNERSHIP TIER II TEST PROTOCOL.
D. THE STORMWATER FILTRATION SYSTEM SHALL REDUCE INCOMING TURBIDITY (MEASURED AS NTUs) BY 50% OR MORE AND SHALL NOT HAVE ANY COMPONENTS THAT LEACH NITRATES OR PHOSPHATES.
E. THE STORMWATER FILTRATION CARTRIDGE SHALL BE EQUIPPED WITH A HYDRODYNAMIC BACKWASH MECHANISM TO EXTEND THE FILTER'S LIFE AND OPTIMIZE ITS PERFORMANCE.
F. THE STORMWATER FILTRATION SYSTEM SHALL BE DESIGNED TO REMOVE A MINIMUM OF 65% OF THE INCOMING TOTAL PHOSPHORUS (TP) LOAD.
G. THE STORMWATER FILTRATION SYSTEM'S CARTRIDGES SHALL HAVE A TREATED SEDIMENT CAPACITY FOR 80% TSS REMOVAL BETWEEN 150-350 LBS.

BAYFILTER MAINTENANCE

THE BAYFILTER SYSTEM REQUIRES PERIODIC MAINTENANCE TO CONTINUE OPERATING AT ITS PEAK EFFICIENCY DESIGN. THE MAINTENANCE PROCESS COMPRISES THE REMOVAL AND REPLACEMENT OF EACH BAYFILTER CARTRIDGE AND THE CLEANING OF THE VAULT OR MANHOLE WITH A VACUUM TRUCK. FOR BEST RESULTS, BAYFILTER MAINTENANCE SHOULD BE PERFORMED BY A CERTIFIED MAINTENANCE CONTRACTOR. ADDITIONAL INSTRUCTIONS OR FOR SITE SPECIFIC DEVIATIONS FROM THESE GUIDELINE CAN BE OBTAINED DIRECTLY FROM YOUR LOCAL ADS REPRESENTATIVE OR BY LOGGING ON TO WWW.ADSPIPE.COM.

WHEN BAYFILTER IS INITIALLY INSTALLED, WE RECOMMEND THAT AN INSPECTION BE PERFORMED ON THE SYSTEM IN THE FIRST SIX (6) MONTHS. AFTER THAT, THE INSPECTION CYCLE TYPICALLY FALLS INTO A BIANNUAL PATTERN GIVEN NORMAL STORM OCCURRENCE AND ACTUAL SOLIDS LOADS.

WHEN BAYFILTER EXHIBITS FLOWS BELOW DESIGN LEVELS, THE SYSTEM SHOULD BE INSPECTED AND MAINTAINED AS SOON AS PRACTICAL. REPLACING A BAYFILTER CARTRIDGE SHOULD BE CONSIDERED AT OR ABOVE THE LEVEL OF THE MANIFOLD.

MAINTENANCE PROCEDURES

1. REMOVE THE MANHOLE COVERS AND OPEN ALL ACCESS HATCHES.
2. BEFORE ENTERING THE SYSTEM MAKE SURE THE AIR IS SAFE PER OSHA STANDARDS OR USE A BREATHING APPARATUS. USE LOW O2, HIGH CO, OR OTHER APPLICABLE WARNING DEVICES PER REGULATORY REQUIREMENTS.
3. USING A VACUUM TRUCK, REMOVE ANY LIQUID AND SEDIMENTS THAT CAN BE REMOVED PRIOR TO ENTRY.
4. USING A SMALL LIFT OR THE BOOM OF THE VACUUM TRUCK, REMOVE THE USED CARTRIDGES BY LIFTING THEM OUT.
5. ANY CARTRIDGES THAT CANNOT BE READILY LIFTED CAN BE EASILY SLID ALONG THE FLOOR TO A LOCATION THEY CAN BE LIFTED VIA A BOOM LIFT.
6. WHEN ALL THE CARTRIDGES HAVE BEEN REMOVED, IT IS NOW PRACTICAL TO REMOVE THE BALANCE OF THE SOLIDS AND WATER. LOOSEN THE STAINLESS CLAMPS ON THE FERNCO COUPLINGS FOR THE MANIFOLD AND REMOVE THE DRAINPIPES AS WELL. CAREFULLY CAP THE MANIFOLD AND THE FERNCO'S AND RINSE THE FLOOR, WASHING AWAY THE BALANCE OF ANY REMAINING COLLECTED SOLIDS.
7. CLEAN THE MANIFOLD PIPES, INSPECT, AND REINSTALL.
8. INSTALL THE EXCHANGE CARTRIDGES AND CLOSE ALL COVERS.
9. THE USED CARTRIDGES MUST BE SENT BACK TO ADS FOR EXCHANGE/RECYCLING AND CREDIT ON UNDAMAGED UNITS.

BAYFILTER INSTALLATION NOTES

1. CONTACT UTILITY LOCATOR TO MARK ANY NEARBY UNDERGROUND UTILITIES AND MAKE SURE IT IS SAFE TO EXCAVATE.
2. REFERENCE THE SITE PLAN AND STAKE OUT THE LOCATION OF THE BAYFILTER VAULT.
3. EXCAVATE THE HOLE, PROVIDING ANY SHEETING AND SHORING NECESSARY TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY REGULATIONS.
4. LEVEL THE SUB-GRADE TO THE PROPER ELEVATION. VERIFY THE ELEVATION AGAINST THE MANHOLE DIMENSIONS, THE INVERT ELEVATIONS, AND THE SITE PLANS. ADJUST THE BASE AGGREGATE, IF NECESSARY.
5. HAVE THE SOIL BEARING CAPACITY VERIFIED BY A LICENSED/ENGINEER FOR THE REQUIRED LOAD BEARING CAPACITY. ON SOLID SUB-GRADE, SET THE FIRST SECTION OF THE BAYFILTER PRE-CAST VAULT.
6. CHECK THE LEVEL AND ELEVATION OF THE FIRST SECTION TO ENSURE IT IS CORRECT BEFORE ADDING ANY RISER SECTIONS.
7. IF ADDITIONAL SECTION(S) ARE REQUIRED, ADD A WATERTIGHT SEAL TO THE FIRST SECTION OF THE BAYFILTER VAULT. SET ADDITIONAL SECTION(S) OF THE VAULT, ADDING A WATERTIGHT SEAL TO EACH JOINT.
8. INSTALL THE PVC OUTLET MANIFOLD.
9. INSTALL THE PVC OUTLET PIPE IN BAYFILTER VAULT.
10. INSTALL THE INLET PIPE TO THE BAYFILTER VAULT.
11. AFTER THE SITE IS STABILIZED, REMOVE ANY ACCUMULATED SEDIMENT OR DEBRIS FROM THE VAULT AND INSTALL THE FLOW DISKS, DRAWDOWN MODULES (IF APPLICABLE), AND THE BAYFILTER CARTRIDGES.
12. PLACE FULL SET OF HOLD DOWN BARS AND BRACKETS INTO PLACE.

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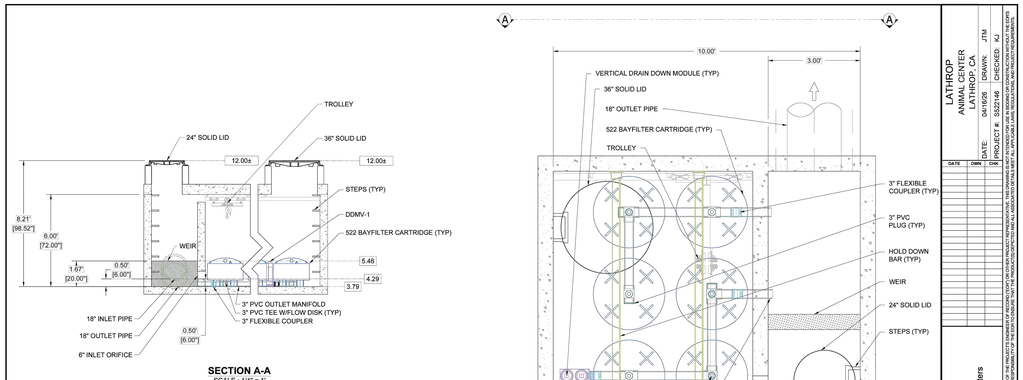
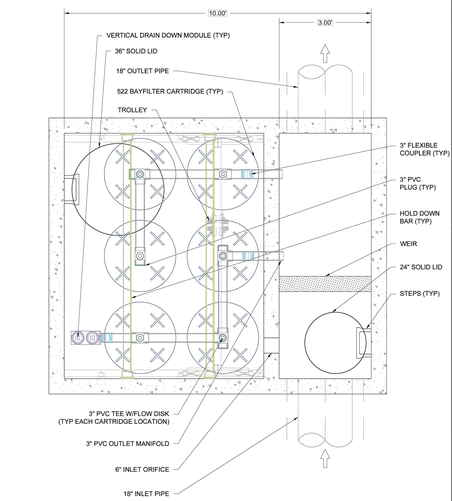
A1 BAYFILTER 8-10-6 VAULT NOTES

NOT TO SCALE

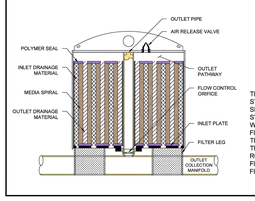


SECTION A-A
SCALE : 1/4" = 1'



PLAN VIEW
SCALE : 1/2" = 1'

NOTE: THIS DETAIL SHOWS A FUNCTIONAL FILTER DESIGN PER SITE SPECIFIC INFORMATION PROVIDED. THE FINAL APPROVED PRECAST DRAWINGS WILL DETERMINE THE FINAL SIZE, INCLUDING BUT NOT LIMITED TO; OVERALL DIMENSIONS, RISER SIZE, RISER TYPE & HEIGHT AND FRAMES & COVERS BEING PROVIDED.



522 BAYFILTER 8-10-6	BAYFILTER
WATER QUALITY FLOW RATE	0.27 CFS
DRAINAGE AREA	–
CARTRIDGE DESIGN FLOW RATE	22.5 GPM
# BAYFILTER CARTRIDGES	6
TREATED SEDIMENT CAPACITY	1050 LBS

THE BAYFILTER STORMWATER MANAGEMENT SYSTEM IS A STORMWATER FILTRATION DEVICE DESIGNED TO REMOVE FINE SEDIMENTS, HEAVY METALS, AND PHOSPORUS. THE BAYFILTER SYSTEM RELIES ON A SPIRAL WOUND MEDIA FILTER CARTRIDGE WITH APPROXIMATELY 45 SQUARE FEET OF FILTRATION AREA. THE FILTER CARTRIDGES ARE HOUSED IN A CONCRETE STRUCTURE THAT EVENLY DISTRIBUTES THE FLOW BETWEEN CARTRIDGES. THE SYSTEM IS OFFLINE WITH AN EXTERNAL BYPASS THAT ROUTES HIGH INTENSITY STORMS AROUND THE SYSTEM. THE FILTER CARTRIDGES REMOVE POLLUTANTS FROM RUNOFF BY FILTRATION (INTERCEPTION/ATTACHMENT) AND ADSORPTION.

NOTE: BYPASS FLOW RATE IS MINIMUM 10 CFS.

LATHROP ANIMAL CENTER LATHROP, CA	
DATE:	04/16/26
PROJECT #:	S522146
DRAWN:	JTM
CHECKED:	RJ

DATE	OWN	CHK

BayFilter® Stormwater Media Filters

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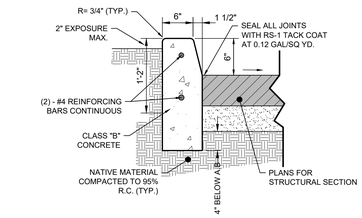
AS NOTED

SHEET 2 OF 2

THE DRAWING AND SPECIFICATIONS AND INFORMATION INCLUDED THEREON ARE THE PROPERTY OF ADS AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY PROJECT OTHER THAN THE PROJECT SHOWN HEREON WITHOUT THE PRIOR WRITTEN PERMISSION OF ADS. ADS ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY USE, MODIFICATION, OR REUSE OF THESE DRAWINGS FOR ANY OTHER PROJECT. BY USING THESE DRAWINGS FOR THE PROJECT SHOWN HEREON AND/OR CONSTRUCTION, IT IS THE USER'S SOLE RESPONSIBILITY TO VERIFY THAT THE PRODUCT(S) DESCRIBED HEREIN ARE SUITABLE FOR THE INTENDED USE, APPLICABLE, AND/OR CODE COMPLIANT.

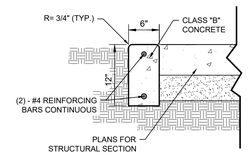
A2 BAYFILTER 8-10-6 VAULT

NOT TO SCALE



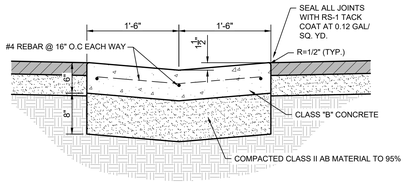
B VERTICAL CURB

NOT TO SCALE



C FLUSH CURB

NOT TO SCALE



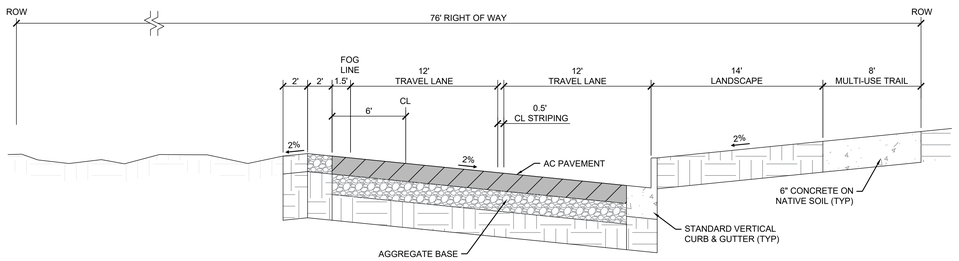
D VALLEY GUTTER

NOT TO SCALE

CITY OF LATHROP STANDARD DETAILS

1. THE LATEST SET OF CITY STANDARDS IS INCORPORATED HEREIN BY REFERENCE. THE CONTRACTOR SHALL OBTAIN THE MOST UP TO DATE CITY STANDARDS PRIOR TO CONSTRUCTION AND A COPY OF CITY STANDARDS SHALL BE ON THE JOB AT ALL TIMES.
2. CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER OF ANY CONFLICTS BETWEEN CITY STANDARDS & THIS PLAN SET.
3. STANDARD PLAN DRAWINGS REFERENCED WITHIN THIS PLAN SET INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

DWG. / PLAN#	DESCRIPTION
D1 - D23	STORM DRAIN
W1 - W21	WATER
S1 - S9	SEWER
R1 - R66	ROADS
RW1 - RW2	RECYCLED WATER
L1 - L33	LANDSCAPE
E1 - E12	ELECTRIC
F1 - F6	FIRE



E STANFORD CROSSING CROSS SECTION A-A

1" = 5' - 5X VERTICAL EXAGGERATION

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

Client:
CITY OF LATHROP

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING DRIVE
LATHROP, CA 95330

REGISTERED PROFESSIONAL ENGINEER MARSHALL T. SWIFT No. C87439 CIVIL STATE OF CALIFORNIA

MCR ENGINEERING
www.mcreng.com
MCR ENGINEERING, INC.
1242 DUPONT COURT
MANTECA , CA 95336
TEL : (209) 239 - 6229
FAX : (209) 239 - 8839

Project No.: 25-115
Drawn By: RP
Checked By: SLS, MS

No.	Description	Date

BID SET
6/23/2026

CONSTRUCTION DETAILS

C3.0

811 Know what's below. Call before you dig. 811 / 800-227-2600

r:\mcr projects\2025\25-115 lathrop animal center v3\engineering\MPC\3 Construction Details.dwg 12/16/2025 2:09:37 PM

DEMOLITION NOTES:

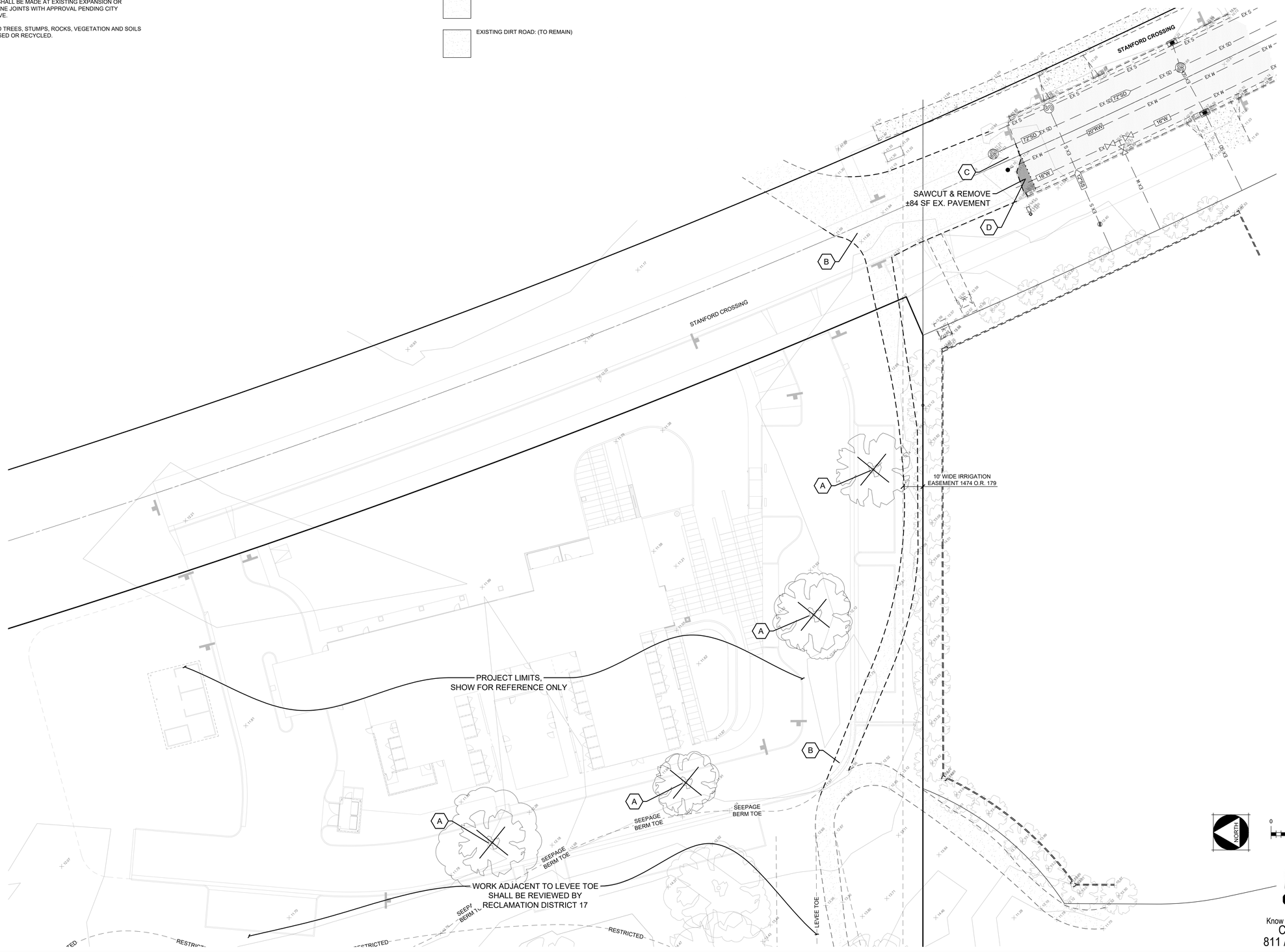
1. UNLESS OTHERWISE IDENTIFIED ALL EXISTING FACILITIES SHOWN IN THE TOPOGRAPHIC AND DEMO PLAN ARE TO BE PRESERVED AND PROTECTED DURING CONSTRUCTION. CONTACT DESIGN ENGINEER IF FACILITIES SHOWN TO REMAIN COME IN CONFLICT WITH PROPOSED IMPROVEMENTS.
2. ALL EXISTING UTILITIES WERE PLOTTED FROM RECORD INFORMATION AND FIELD TOPOGRAPHY. ACTUAL LOCATIONS MAY VARY AND ADDITIONAL CROSSINGS MAY EXIST IN THE FIELD. IT IS IMPERATIVE THAT "U.S.A." LOCATION SERVICES ARE LOCATED AND MARKED PRIOR TO START OF EXCAVATION.
3. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXPOSING EXISTING UTILITY CROSSINGS AND SERVICES.
4. ANY DAMAGE TO EXISTING UTILITIES WILL BE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. ANY DAMAGE TO EXISTING SIDEWALK, CURB OR GUTTER WILL BE SOLE RESPONSIBILITY OF THE CONTRACTOR, WITH REPLACEMENT TO BE DETERMINED BY THE ENGINEER.
6. CONTRACTOR SHALL ADJUST EXISTING MANHOLE RIMS, WATER VALVES, AND MONUMENT BOXES TO FINISH GRADE.
7. ALL SAWCUTS SHALL BE MADE AT EXISTING EXPANSION OR WEAKENED PLANE JOINTS WITH APPROVAL PENDING CITY REPRESENTATIVE.
8. ALL EXCAVATED TREES, STUMPS, ROCKS, VEGETATION AND SOILS SHALL BE RE-USED OR RECYCLED.

DEMOLITION KEYNOTES:

- (A) DEMOLISH & REMOVE EXISTING TREE
- (B) DEMOLISH & REMOVE EXISTING DIRT ROAD WITHIN PROJECT LIMITS
- (C) DEMOLISH & REMOVE EXISTING BARRICADE
- (D) SAWCUT & REMOVE 84± SF EXISTING PAVEMENT

DEMOLITION LEGEND

- SAWCUT LINE
- EXISTING PAVEMENT: (TO REMAIN)
- EXISTING CONCRETE: (TO REMAIN)
- EXISTING PAVEMENT: (TO BE REMOVED)
- EXISTING DIRT ROAD: (TO BE REMOVED)
- EXISTING DIRT ROAD: (TO REMAIN)



Know what's below.
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Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

Client:
CITY OF LATHROP

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING DRIVE
LATHROP, CA 95330

REGISTERED PROFESSIONAL ENGINEER
MARSHALL T. SWIFT
No. C87439
CIVIL
STATE OF CALIFORNIA

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MANTECA, CA 95336
TEL : (209) 239 - 6229
FAX : (209) 239 - 8839

Project No.: 25-115
Drawn By: RP
Checked By: SLS, MS

No.	Description	Date

BID SET
6/23/2026

TOPOGRAPIC SURVEY & DEMOLITION PLAN

C4.0

J:\my projects\2025\25-115 lathrop animal shelter v2\5-engineering\MP\C4.0 TOPOGRAPIC SURVEY & DEMOLITION PLAN.dwg 10/16/2025 2:39:37 PM

PAVEMENT SECTIONS:

ASPHALT PAVEMENT (STANFORD CROSSING)
TI=6.0
4.5" A.C. OVER 8.0" A.B.
(PER CITY OF LATHROP STANDARDS)

ASPHALT PAVEMENT (DRIVE AISLES)
TI=5.5
3.0" A.C. OVER 6.5" A.B.
(REFER TO GEOTECHNICAL REPORT)

ASPHALT PAVEMENT (PARKING STALLS)
TI=4.5
3.0" A.C. OVER 5.0" A.B.
(REFER TO GEOTECHNICAL REPORT & PER CITY OF LATHROP STANDARDS)

CONCRETE
(PER COL STD. R-8)

CONCRETE
(PER COL STD. DETAILS)

EXISTING DIRT ROAD

LEGEND:

R-1 COL — DETAIL NUMBER

CITY OF LATHROP STANDARD DETAIL/ NUMBER SHEET LOCATION

R-5: ROLL CURB, GUTTER, AND SIDEWALK
R-7: VERTICAL CURB & GUTTER
R-12: CURB TRANSITION DETAIL
R-13: CURB RAMP DETAILS
R-19: EXPANSION JOINTS, WEAKENED PLANE JOINTS, AND SCORE LINES
R-37: BARRICADES FOR TERMINATING STREETS
R-38: SIDEWALK BARRICADE TYPE II

KEYNOTES:

A. TRASH ENCLOSURE, REFER TO LANDSCAPE PLANS FOR DETAILS
B. FREEZER BUILDING, REFER TO LANDSCAPE PLANS FOR DETAILS
C. WASHOUT, REFER TO LANDSCAPE PLANS FOR DETAILS
D. DOG YARDS, REFER TO LANDSCAPE PLANS FOR DETAILS
E. BARN, REFER TO LANDSCAPE PLANS FOR DETAILS
F. KENNEL AREA, SHOWN FOR REFERENCE ONLY. REFER TO BUILDING PLANS FOR DETAILS.

HORIZONTAL CONTROL NOTES:

1. DIMENSION TO FLOWLINE OF CURB UNLESS OTHERWISE NOTED.
2. ALL STRIPING AND SIGNAGE SHALL BE INSTALL PER C.O.L STANDARDS.
3. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE JOINT PATTERNS AND LOCATIONS.
4. ALL CURBS ADJACENT TO ENTRANCES TO A PARKING LOT, TRASH ENCLOSURE, AISLE WITHOUT PARKING, LOADING ZONE, AND EXTERIOR CURB OF ANY INTERIOR PARKING ISLANDS MUST BE PAINTED RED WITH WHITE LETTERING DESIGNATING "NO PARKING FIRE LANE".
5. SEE ARCHITECTURAL PLANS FOR ADDITIONAL DIMENSIONS AND CONCRETE DETAILS.
6. CONTRACTOR IS RESPONSIBLE FOR PROPER TRANSITIONS BETWEEN VARIOUS CURB TYPES AND ASSURING ADEQUATE DRAINAGE THROUGH THE TRANSITION.

CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
C1	48.00'	18.67'	22°17'17"
C2	3.00'	4.76'	91°00'17"
C3	3.50'	11.00'	180°00'00"
C4	3.00'	4.71'	89°59'51"
C5	33.50'	44.43'	75°59'17"
C6	3.00'	4.71'	90°00'21"
C7	3.00'	4.71'	89°59'33"
C8	201.50'	63.91'	18°10'18"
C9	3.00'	4.67'	89°09'34"
C10	3.00'	4.71'	90°00'00"
C11	6.00'	9.42'	90°00'00"

CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
C12	110.00'	36.48'	19°00'06"
C13	7.50'	7.98'	60°59'54"
C14	24.00'	25.55'	60°59'54"
C15	26.50'	20.33'	43°57'55"
C16	17.50'	5.22'	17°05'44"
C17	3.00'	5.12'	97°52'05"
C18	3.50'	5.50'	90°00'00"
C19	6.00'	9.62'	91°51'01"
C20	176.50'	52.87'	17°09'43"
C21	12.00'	15.92'	75°59'29"
C22	10.00'	8.73'	50°00'19"

CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
C23	10.00'	8.73'	50°00'32"
C24	10.00'	8.70'	49°51'14"
C25	10.00'	8.73'	49°59'41"
C26	3.00'	4.71'	89°59'47"
C27	3.00'	4.71'	89°59'55"
C28	30.00'	11.67'	22°17'17"
C29	4520.00'	462.12'	5°51'28"
C30	3.50'	11.00'	180°00'00"
C31	3.50'	11.00'	180°00'00"
C32	4542.00'	1405.30'	17°43'39"

NOTE: ALL LINE & CURB INFORMATION REPRESENTS FACE OF CURB.

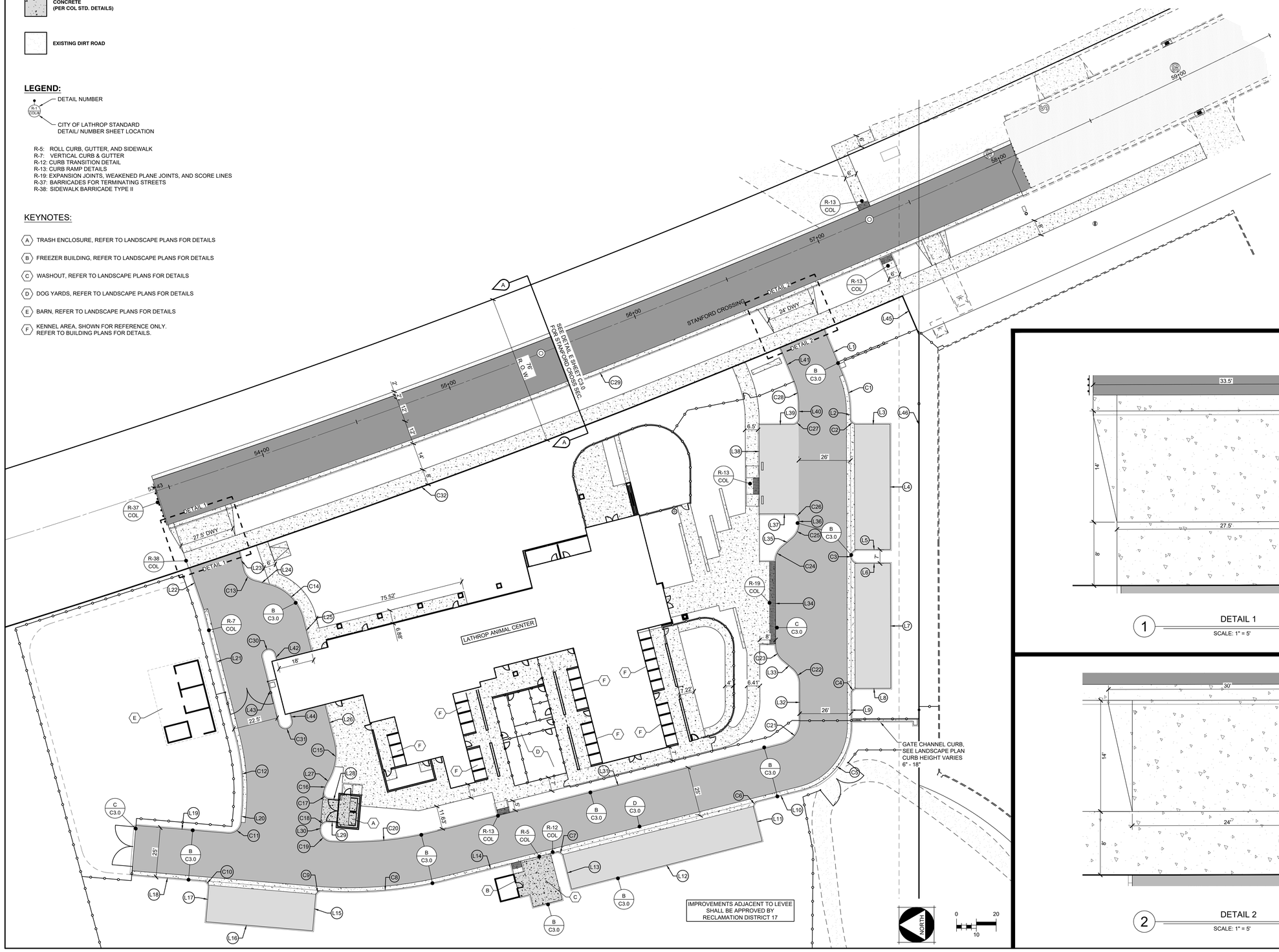
LINE TABLE		
LINE	LENGTH	DIRECTION
L1	25.01'	S67°42'39"W
L2	3.64'	S89°59'56"W
L3	16.95'	S00°00'00"E
L4	63.17'	S90°00'00"W
L5	16.40'	N00°00'00"W
L6	16.40'	S00°00'00"E
L7	63.00'	S90°00'00"W
L8	17.00'	N00°00'00"W
L9	15.74'	S89°59'59"W
L10	22.39'	N14°00'44"W

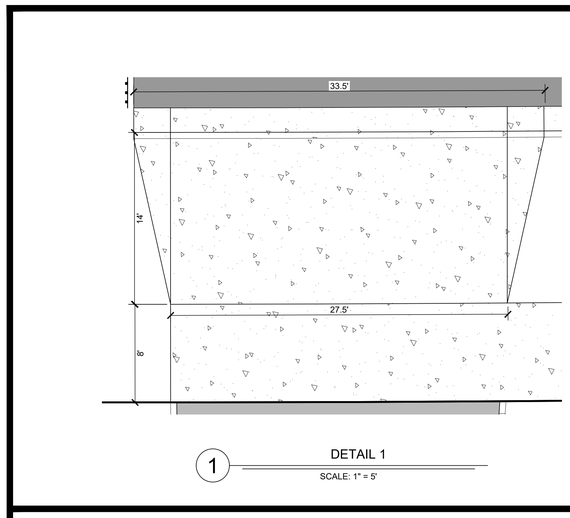
LINE TABLE		
LINE	LENGTH	DIRECTION
L11	17.00'	N75°58'55"E
L12	99.00'	N14°00'44"W
L13	17.00'	N75°58'49"E
L14	56.38'	N14°00'44"W
L15	17.52'	S85°00'00"E
L16	54.00'	S05°00'00"W
L17	17.50'	S85°00'00"E
L18	36.21'	N05°00'00"E
L19	46.72'	S05°00'00"W
L20	6.19'	S85°00'00"E

LINE TABLE		
LINE	LENGTH	DIRECTION
L21	66.79'	N75°59'54"E
L22	22.39'	N71°28'42"E
L23	9.80'	S75°59'54"W
L24	7.74'	S15°00'00"W
L25	16.84'	S75°59'54"W
L26	18.91'	S75°59'54"W
L27	1.40'	N60°02'11"W
L28	4.81'	S05°00'00"W
L29	4.45'	N05°00'00"E
L30	0.46'	N85°00'00"W

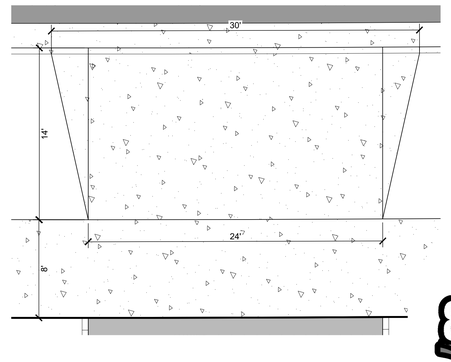
LINE TABLE		
LINE	LENGTH	DIRECTION
L31	180.01'	S14°00'44"E
L32	18.78'	N89°59'47"E
L33	6.34'	N39°59'28"E
L34	42.14'	N90°00'00"W
L35	6.34'	S40°00'32"E
L36	1.70'	N89°59'47"E
L37	17.00'	N00°00'00"E
L38	45.00'	N89°59'47"E
L39	17.04'	S00°00'01"E
L40	7.23'	N89°59'55"E

LINE TABLE		
LINE	LENGTH	DIRECTION
L41	18.60'	N67°42'38"E
L42	2.97'	N75°59'54"E
L43	34.24'	S75°59'54"W
L44	3.64'	N75°59'54"E
L45	21.00'	N66°52'00"E
L46	471.75'	N89°49'29"W





1 DETAIL 1
SCALE: 1" = 5'



2 DETAIL 2
SCALE: 1" = 5'

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Client:
CITY OF LATHROP

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING DRIVE
LATHROP, CA 95330

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FAX : (209) 239 - 8839

Project No.: 25-115
Drawn By: RP
Checked By: SLS, MS

No.	Description	Date

BID SET
6/23/2026

DIMENSION & PAVING PLAN

C5.0

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GRADING LEGEND:

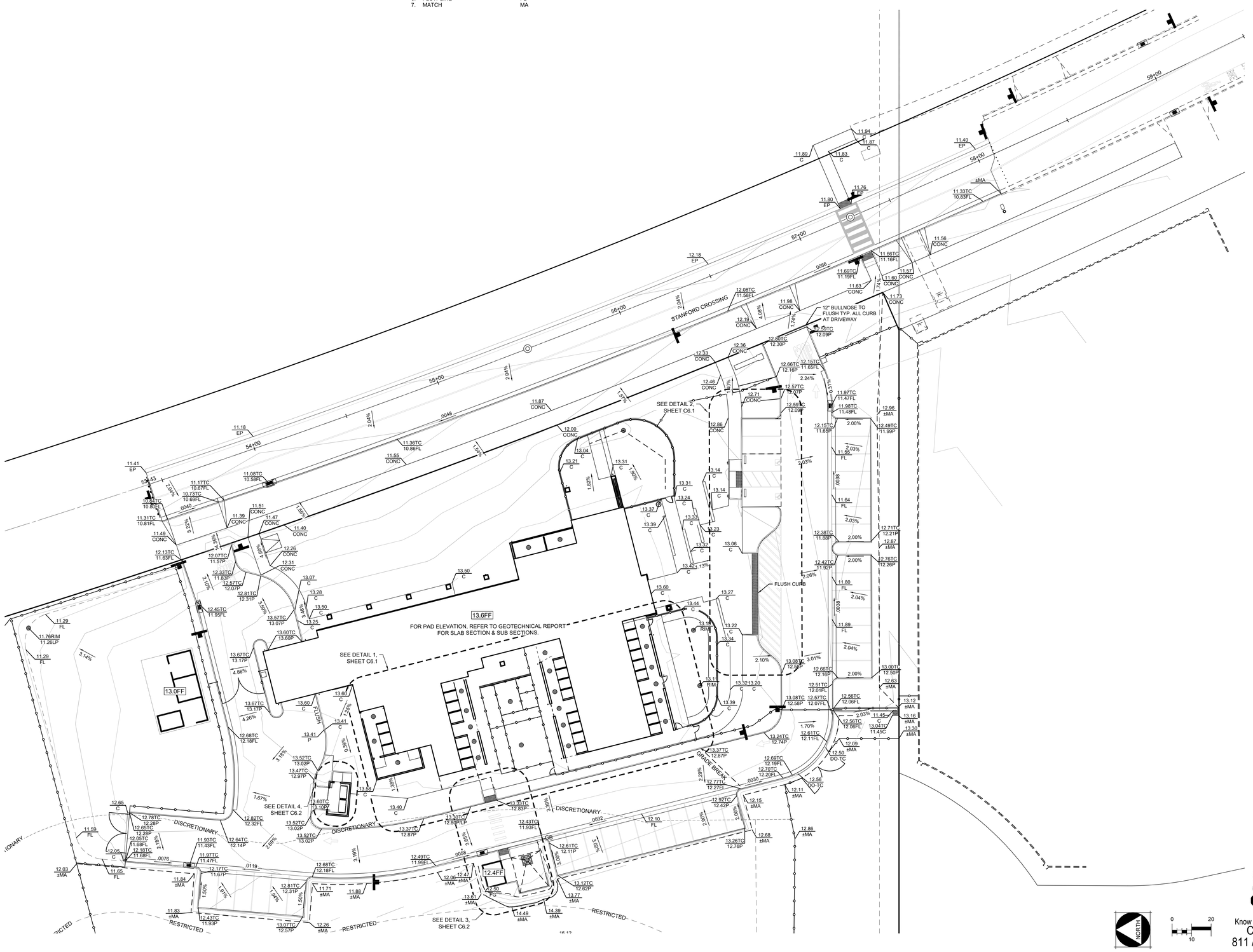
1. FINISH GRADE ELEVATION — 20.00
2. FINISH GRADE SLOPE — 1.50%
3. FINISH GRADE CONTOUR
4. EXISTING GRADE CONTOUR
5. ADA PATH OF TRAVEL
   - IN NO CASE SHALL SLOPES EXCEED ADA MAXIMUMS (2% CROSS SLOPE, 5% RUNNING SLOPE)

GRADING ACRONYMS:

1.	PAVEMENT	P
2.	LOW/HIGH POINT	LP/HP
3.	CURB RETURN	CR
4.	TOP OF CURB	TC
5.	TOP OF BANK	TOP
6.	FLOW LINE	FL
7.	MATCH	MA

GRADING NOTES:

1. ALL VALVES, MANHOLES, CLEANOUTS, DI'S, PULLBOXES, ETC. WITHIN PROJECT LIMITS TO BE ADJUSTED TO FINISH GRADE AS NEEDED.
2. GRADING, PAVING AND EARTHWORK SHALL BE IN ACCORDANCE WITH PROJECT GEOTECHNICAL REPORT AS LISTED ON SHEET C1.0.
3. ALL ADA ACCESSIBLE PARKING SPACES SHALL HAVE SLOPES LESS THAN 2% IN ANY DIRECTION.
4. THE ACCESSIBLE PATH OF TRAVEL SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 5% (1:20) IN THE DIRECTION OF TRAVEL AND A CROSS-SLOPE NOT STEEPER THAN 2%, PER CBC 11B-403, UNLESS DESIGNED AS A RAMP. WHERE THE ACCESSIBLE ROUTE MAKES A 90-DEGREE TURN, THE INTERMEDIATE TURNING SPACE SHALL HAVE A SLOPE NOT EXCEEDING 2% IN ANY DIRECTION. RAMPS SHALL NOT EXCEED 8.33% (1:12).



NORTH

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Project No.: 25-115
Drawn By: RP
Checked By: SLS, MS

No.	Description	Date

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6/23/2026

GRADING & DRAINAGE PLAN

C6.0

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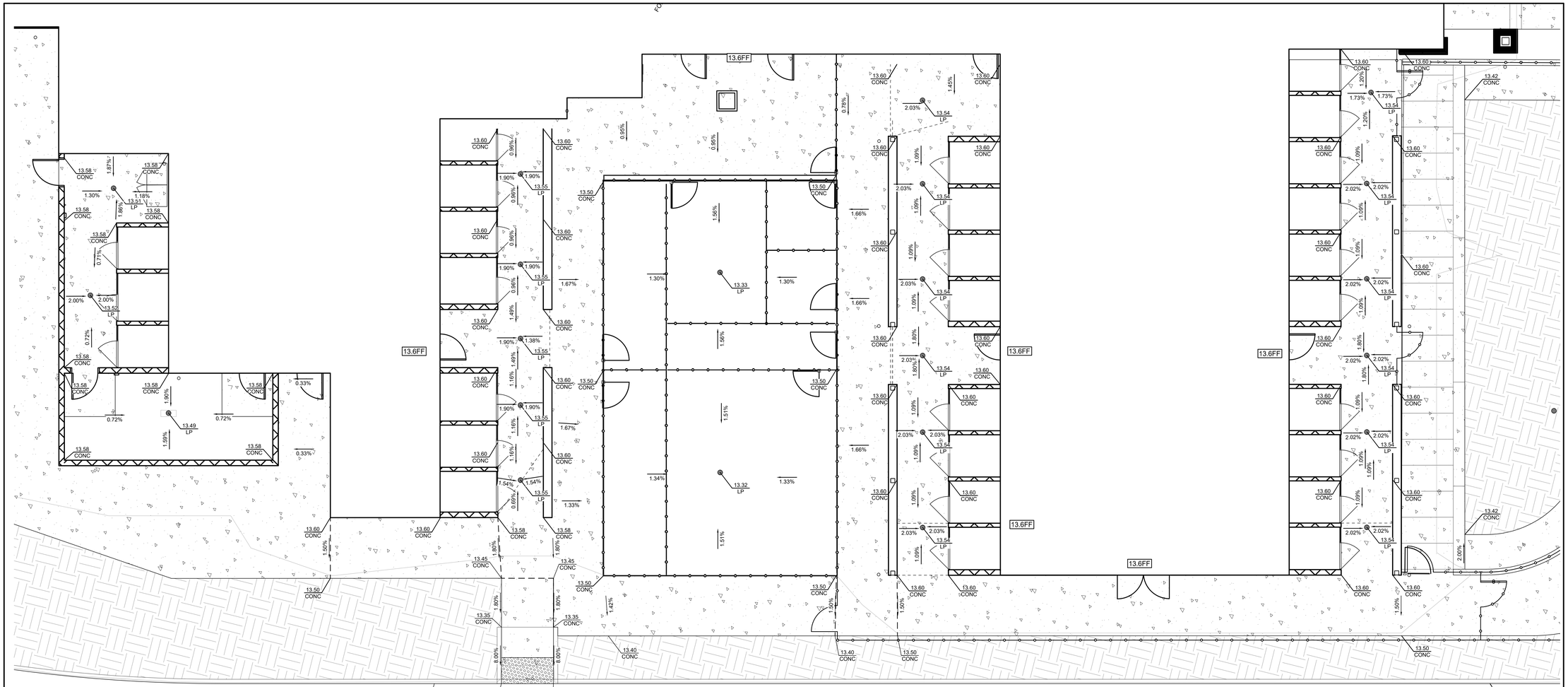
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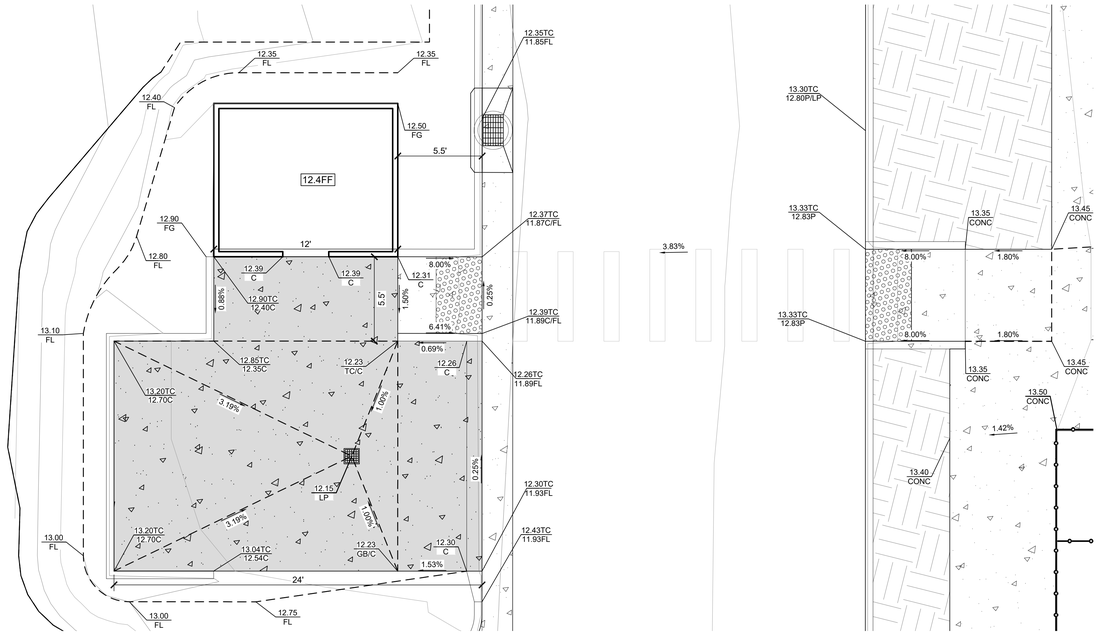
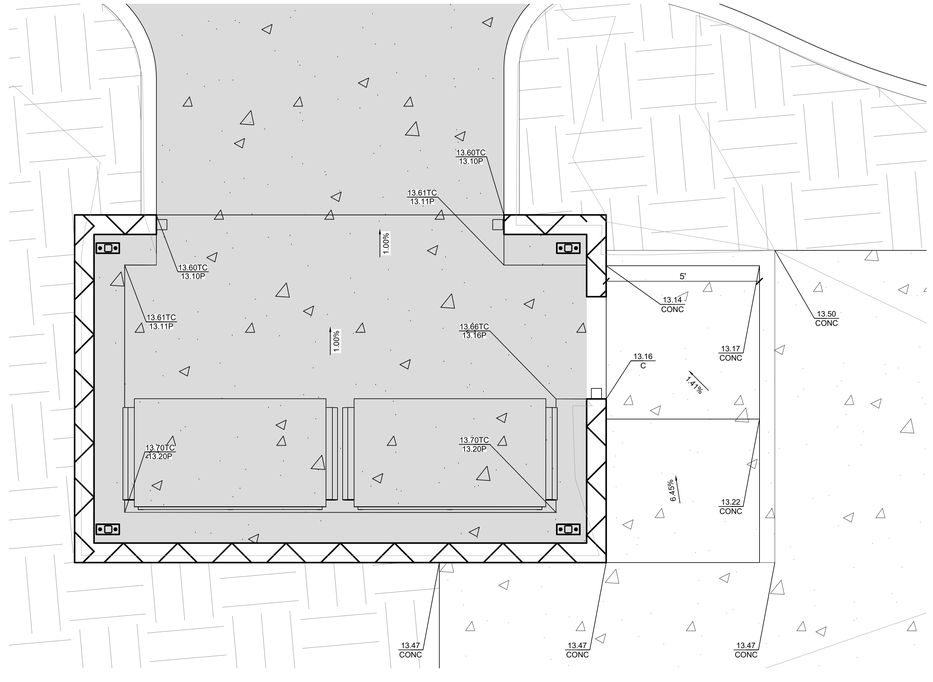


3 GRADING DETAIL

SCALE: 1" = 4'



4 GRADING DETAIL

SCALE: 1" = 2'

GRADING NOTES:

1. ALL VALVES, MANHOLES, CLEANOUTS, DI'S, PULLBOXES, ETC. WITHIN PROJECT LIMITS TO BE ADJUSTED TO FINISH GRADE AS NEEDED.
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3. ALL ADA ACCESSIBLE PARKING SPACES SHALL HAVE SLOPES LESS THAN 2% IN ANY DIRECTION.
4. THE ACCESSIBLE PATH OF TRAVEL SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 5% (1:20) IN THE DIRECTION OF TRAVEL AND A CROSS-SLOPE NOT STEEPER THAN 2%, PER CBC 11B-403, UNLESS DESIGNED AS A RAMP. WHERE THE ACCESSIBLE ROUTE MAKES A 90-DEGREE TURN, THE INTERMEDIATE TURNING SPACE SHALL HAVE A SLOPE NOT EXCEEDING 2% IN ANY DIRECTION. RAMPS SHALL NOT EXCEED 8.33% (1:12).

GRADING LEGEND:

1. FINISH GRADE ELEVATION — 20.00
2. FINISH GRADE SLOPE — 1.50%
3. FINISH GRADE CONTOUR
4. EXISTING GRADE CONTOUR
5. ADA PATH OF TRAVEL
   - IN NO CASE SHALL SLOPES EXCEED ADA MAXIMUMS (2% CROSS SLOPE, 5% RUNNING SLOPE)

GRADING ACRONYMS:

1.	PAVEMENT	P
2.	LOW/HIGH POINT	LP/HP
3.	CURB RETURN	CR
4.	TOP OF CURB	TC
5.	TOP OF BANK	TOP
6.	FLOW LINE	FL
7.	MATCH	MA

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GRADING DETAILS

C6.2

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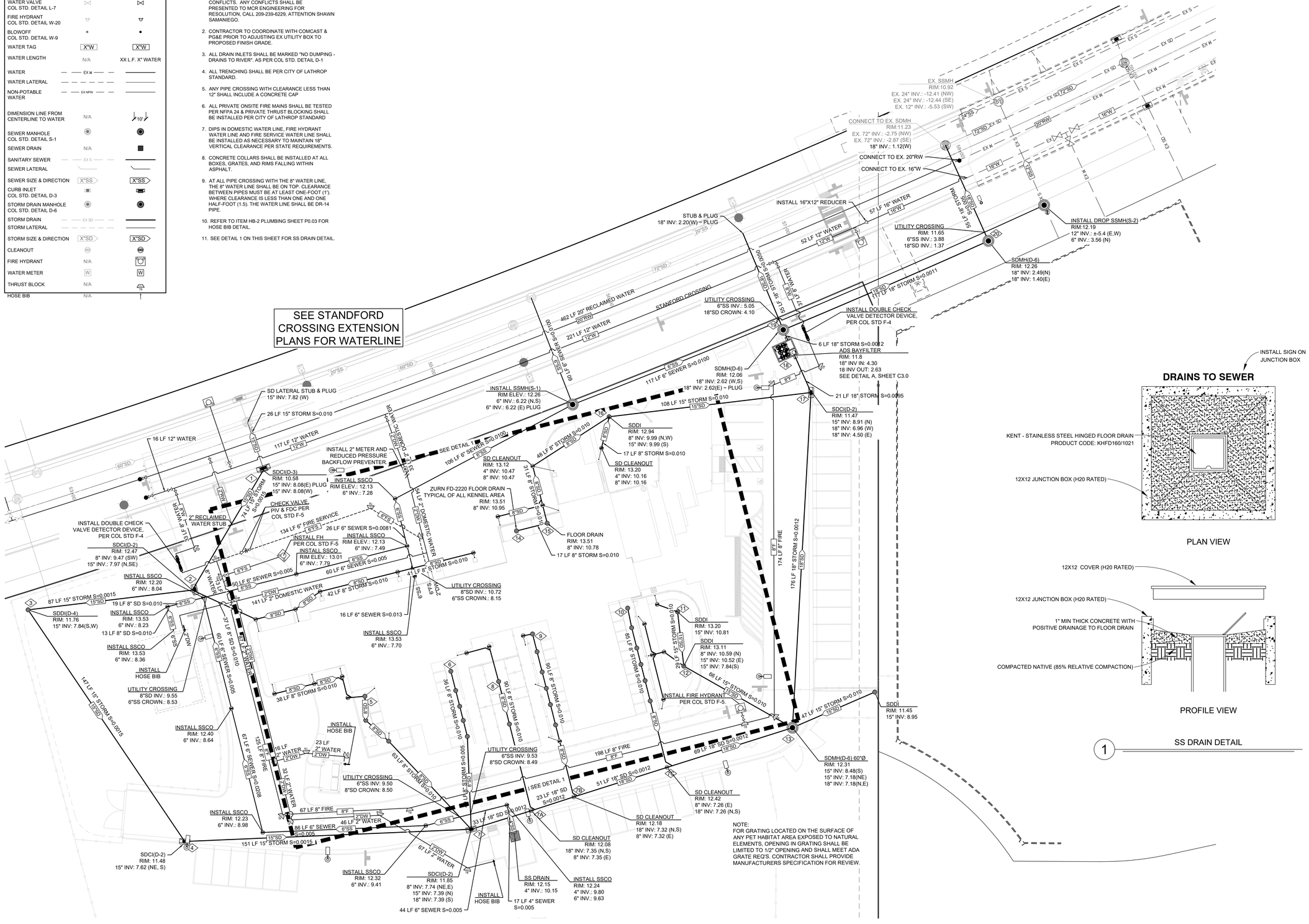
UTILITY LEGEND

	EXISTING	PROPOSED
WATER VALVE COL STD. DETAIL L-7	⋈	⋈
FIRE HYDRANT COL STD. DETAIL W-20		
BLOWOFF COL. STD. DETAIL W-9	•	•
WATER TAG	X"W	X"W
WATER LENGTH	N/A	XX L.F. X" WATER
WATER	— EX W —	
WATER LATERAL		
NON-POTABLE WATER	— EX NPW —	
DIMENSION LINE FROM CENTERLINE TO WATER	N/A	10'
SEWER MANHOLE COL STD. DETAIL S-1		
SEWER DRAIN	N/A	
SANITARY SEWER	— EX S —	
SEWER LATERAL		
SEWER SIZE & DIRECTION	X"SS	X"SS
CURB INLET COL STD. DETAIL D-3		
STORM DRAIN MANHOLE COL STD. DETAIL D-6		
STORM DRAIN	— EX SD —	
STORM LATERAL		
STORM SIZE & DIRECTION	X"SD	X"SD
CLEANOUT		
FIRE HYDRANT	N/A	
WATER METER	W	W
THRUST BLOCK	N/A	
HOSE BIB	N/A	

NOTES:

1. PRIOR TO NEW UTILITY INSTALLATIONS, CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AT LOCATIONS INDICATED, FOR POTENTIAL DESIGN CONFLICTS. ANY CONFLICTS SHALL BE PRESENTED TO MCR ENGINEERING FOR RESOLUTION, CALL 209-239-6229, ATTENTION SHAWN SAMANIEGO.
2. CONTRACTOR TO COORDINATE WITH COMCAST & PG&E PRIOR TO ADJUSTING EX UTILITY BOX TO PROPOSED FINISH GRADE.
3. ALL DRAIN INLETS SHALL BE MARKED "NO DUMPING - DRAINS TO RIVER". AS PER COL STD. DETAIL D-1
4. ALL TRENCHING SHALL BE PER CITY OF LATHROP STANDARD.
5. ANY PIPE CROSSING WITH CLEARANCE LESS THAN 12" SHALL INCLUDE A CONCRETE CAP
6. ALL PRIVATE ONSITE FIRE MAINS SHALL BE TESTED PER NFPA 24 & PRIVATE THRUST BLOCKING SHALL BE INSTALLED PER CITY OF LATHROP STANDARD
7. DIPS IN DOMESTIC WATER LINE, FIRE HYDRANT WATER LINE AND FIRE SERVICE WATER LINE SHALL BE INSTALLED AS NECESSARY TO MAINTAIN 18" VERTICAL CLEARANCE PER STATE REQUIREMENTS.
8. CONCRETE COLLARS SHALL BE INSTALLED AT ALL BOXES, GRATES, AND RIMS FALLING WITHIN ASPHALT.
9. AT ALL PIPE CROSSING WITH THE 8" WATER LINE, THE 8" WATER LINE SHALL BE ON TOP. CLEARANCE BETWEEN PIPES MUST BE AT LEAST ONE-FOOT (1'). WHERE CLEARANCE IS LESS THAN ONE AND ONE HALF-FOOT (1.5). THE WATER LINE SHALL BE DR-14 PIPE.
10. REFER TO ITEM HB-2 PLUMBING SHEET P0.03 FOR HOSE BIB DETAIL.
11. SEE DETAIL 1 ON THIS SHEET FOR SS DRAIN DETAIL.



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No.	Description	Date

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UTILITY PLAN

C7.0

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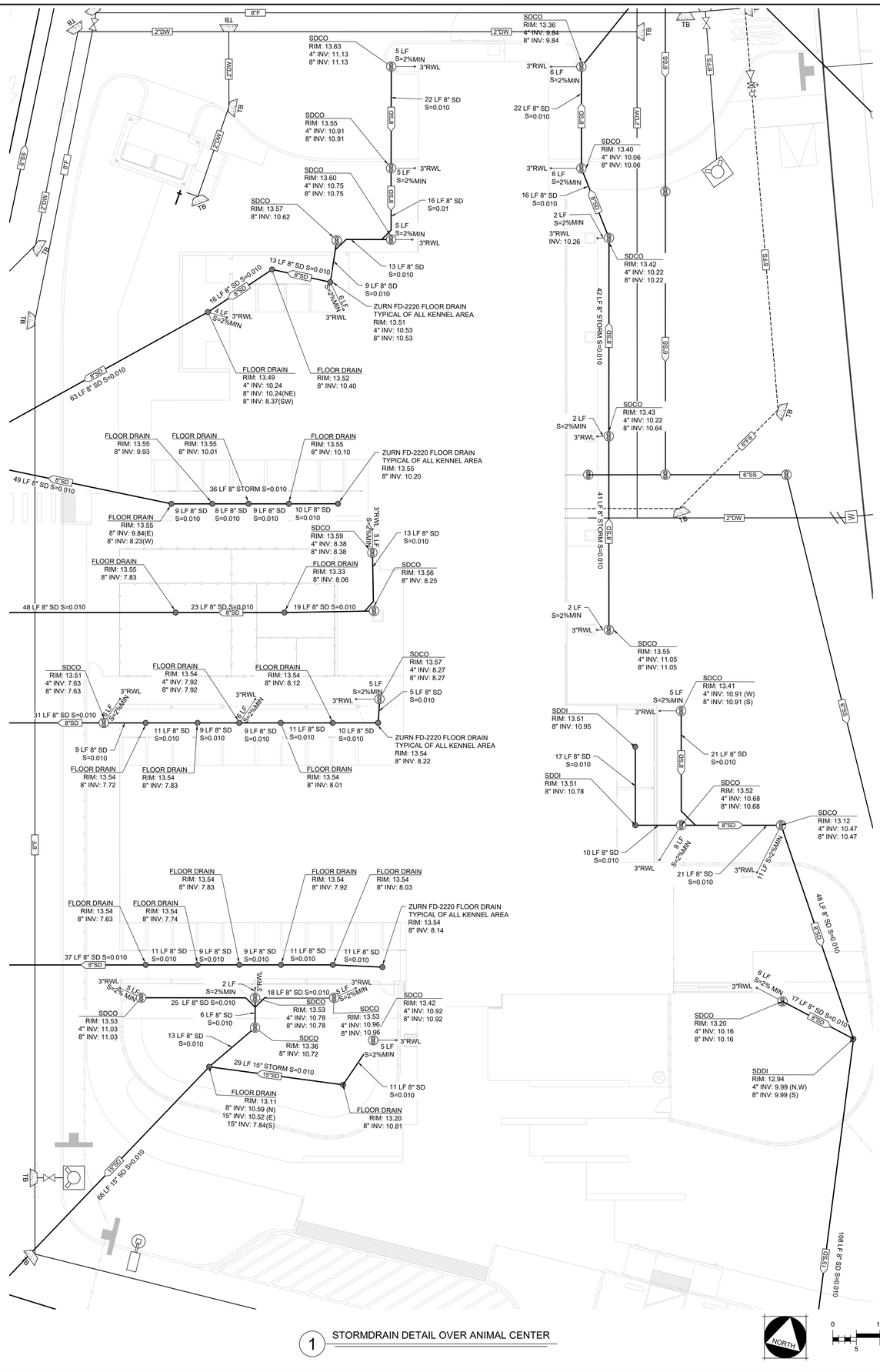
NOTES:

1. PRIOR TO NEW UTILITY INSTALLATIONS, CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AT LOCATIONS INDICATED, FOR POTENTIAL DESIGN CONFLICTS. ANY CONFLICTS SHALL BE PRESENTED TO MCR ENGINEERING FOR RESOLUTION, CALL 209-239-6229, ATTENTION SHAWN SAMANIEGO.
2. CONTRACTOR TO COORDINATE WITH COMCAST & PG&E PRIOR TO ADJUSTING EX UTILITY BOX TO PROPOSED FINISH GRADE.
3. ALL DRAIN INLETS SHALL BE MARKED "NO DUMPING - DRAINS TO RIVER". AS PER COL STD. DETAIL D-1
4. ALL TRENCHING SHALL BE PER CITY OF LATHROP STANDARD.
5. ANY PIPE CROSSING WITH CLEARANCE LESS THAN 12" SHALL INCLUDE A CONCRETE CAP
6. ALL PRIVATE ONSITE FIRE MAINS SHALL BE TESTED PER NFPA 24 & PRIVATE THRUST BLOCKING SHALL BE INSTALLED PER CITY OF LATHROP STANDARD
7. DIPS IN DOMESTIC WATER LINE, FIRE HYDRANT WATER LINE AND FIRE SERVICE WATER LINE SHALL BE INSTALLED AS NECESSARY TO MAINTAIN 18" VERTICAL CLEARANCE PER STATE REQUIREMENTS.
8. CONCRETE COLLARS SHALL BE INSTALLED AT ALL BOXES, GRATES, AND RIMS FALLING WITHIN ASPHALT.
9. AT ALL PIPE CROSSING WITH THE 8" WATER LINE, THE 8" WATER LINE SHALL BE ON TOP. CLEARANCE BETWEEN PIPES MUST BE AT LEAST ONE-FOOT (1'). WHERE CLEARANCE IS LESS THAN ONE AND ONE HALF-FOOT (1.5). THE WATER LINE SHALL BE DR-14 PIPE.
10. REFER TO ITEM HB-2 PLUMBING SHEET P0.03 FOR HOSE BIBB DETAIL.

UTILITY LEGEND

	EXISTING	PROPOSED
WATER VALVE COL STD. DETAIL L-7	⋈	⋈
FIRE HYDRANT COL STD. DETAIL W-20		
BLOWOFF COL STD. DETAIL W-9	•	•
WATER TAG	X"W"	X"W"
WATER LENGTH	N/A	XX L.F. X" WATER
WATER	EX W	
WATER LATERAL		
NON-POTABLE WATER	EX NPW	
DIMENSION LINE FROM CENTERLINE TO WATER	N/A	10'
SEWER MANHOLE COL STD. DETAIL S-1		
SANITARY SEWER	EX S	
SEWER LATERAL		
SEWER SIZE & DIRECTION	X"SS	X"SS
CURB INLET COL STD. DETAIL D-3		
STORM DRAIN MANHOLE COL STD. DETAIL D-6		
STORM DRAIN	EX SD	
STORM LATERAL		
STORM SIZE & DIRECTION	X"SD	X"SD
CLEANOUT	CO	CO
FIRE HYDRANT	N/A	
WATER METER	W	W
TRUSS BLOCK	N/A	TB



1 STORMDRAIN DETAIL OVER ANIMAL CENTER

NORTH

0 5 10

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www.ldapartners.com

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CITY OF LATHROP

Project:
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Drawn By: RP
Checked By: SLS, MS

No.	Description	Date

BID SET
6/23/2026

UTILITY PLAN DETAIL

C7.1

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CONCRETE WASTE MANAGEMENT NOTES

CONCRETE SLURRY WASTES

1. PCC AND AC WASTE SHALL NOT BE ALLOWED TO ENTER STORM DRAINS OR WATERCOURSES.
2. PCC AND AC WASTE SHALL BE COLLECTED AND DISPOSED OF IN A TEMPORARY CONCRETE WASHOUT FACILITY.
3. A SIGN SHALL BE INSTALLED ADJACENT TO EACH TEMPORARY CONCRETE WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
4. DO NOT ALLOW SLURRY RESIDUE FROM WET CORING OR SAW-CUTTING AC OR PCC TO ENTER STORM DRAINS OR RECEIVING WATERS.
5. VACUUM SLURRY RESIDUE AND DISPOSE IN A TEMPORARY PIT AND ALLOW SLURRY TO DRY. DISPOSE OF DRY SLURRY RESIDUE IN ACCORDANCE WITH BMP WM-5.
6. COLLECT RESIDUE FROM GROOVING AND GRINDING OPERATIONS IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 42-1.02 AND 42-2.02, "CONSTRUCTION."

ON-SITE TEMPORARY CONCRETE WASHOUT FACILITY, TRANSIT TRUCK WASHOUT PROCEDURES

1. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 15 M (50 FT.) FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES, UNLESS DETERMINED UNFEASIBLE BY THE ENGINEER. EACH FACILITY SHALL BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.
2. A SIGN SHALL BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
3. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED ABOVE GRADE. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
4. TEMPORARY WASHOUT FACILITIES SHALL HAVE A TEMPORARY PIT OR BERMED AREAS OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND WASTE CONCRETE MATERIALS GENERATED DURING WASHOUT PROCEDURES.
5. PERFORM WASHOUT OF CONCRETE TRUCKS IN DESIGNATED AREAS ONLY.
6. ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE SHALL BE BROKEN UP, REMOVED, AND DISPOSED. DISPOSE OF HARDENED CONCRETE ON A REGULAR BASIS.

TEMPORARY CONCRETE WASHOUT FACILITY (TYPE ABOVE GRADE)

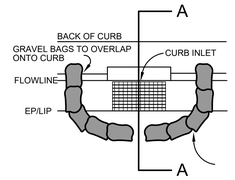
1. TEMPORARY CONCRETE WASHOUT FACILITY (TYPE ABOVE GRADE) SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS, WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 3 M (10 FEET), BUT WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. THE LENGTH AND WIDTH OF A FACILITY MAY BE INCREASED, AT THE CONTRACTOR'S EXPENSE, UPON APPROVAL OF THE ENGINEER.
2. PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 60 ML POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES, TEARS OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

REMOVAL OF TEMPORARY CONCRETE WASHOUT FACILITIES

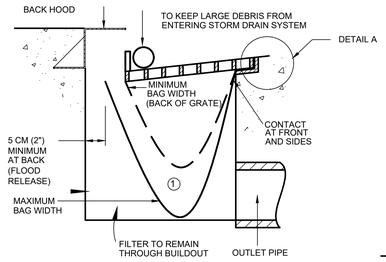
1. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, AS DETERMINED BY THE ENGINEER, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BECOME THE PROPERTY OF THE CONTRACTOR, SHALL BE REMOVED FROM THE SITE OF THE WORK, AND SHALL BE DISPOSED OF.
2. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED AND REPAIRED IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS.
3. THE CONTRACTOR'S WASTE POLLUTION CONTROL MANAGER (WPCM) SHALL MONITOR ON SITE CONCRETE WASTE STORAGE AND DISPOSAL PROCEDURES AT LEAST WEEKLY.
4. THE WPCM SHALL MONITOR CONCRETE WORKING TASKS, SUCH AS SAW CUTTING, CORING, GRINDING AND GROOVING AT LEAST WEEKLY TO ENSURE PROPER METHODS ARE EMPLOYED.
5. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 4" FOR ABOVE GRADE FACILITIES AND 12" FOR BELOW GRADE FACILITIES. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION. HARDENED CONCRETE MATERIALS SHALL BE REMOVED AND DISPOSED OF IN CONFORMANCE WITH THE PROVISIONS IN SECTION 15-3.02, "REMOVAL METHODS", OF THE STANDARD SPECIFICATIONS.
6. EXISTING FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.

GENERAL NOTES

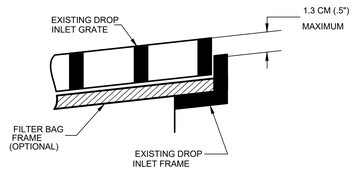
1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE EFFECTIVE FOR THE DURATION OF THE CONSTRUCTION ACTIVITY.
2. NO STORM RUNOFF WATER SHALL BE ALLOWED TO DRAIN DIRECTLY INTO THE EXISTING UNDERGROUND STORM SYSTEM BEFORE THE ON-SITE STORM DRAIN SYSTEM, LANDSCAPE, AND PAVING IS INSTALLED AND COMPLETED.
3. AS SOON AS IS PRACTICAL AFTER THE NEW ON-SITE STORM DRAIN SYSTEM IS INSTALLED, THE CATCH BASINS SHALL BE INSTALLED AND GRAVEL BAGS AND SCREENS SHALL BE PLACED AROUND THE CATCH BASINS, AS SHOWN. THE CONTRACTOR SHALL HAVE AN OPTION TO INSTALL PREFABRICATED STEEL FRAMES WITH FILTER SCREEN OF FILTER FABRIC ATTACHED TO THE FRONT OF THE DRAIN INLET AND EXTEND 12 INCHES (12") ON EACH SIDE OF THE DRAIN INLET OPENING. FRAME SHALL BE APPROVED BY THE CITY ENGINEER AND SHALL FIT THE OPENING WITH LESS THAN ONE-QUARTER INCH (1/4") GAP AT ANY ONE POINT.
4. THE NAME, ADDRESS AND 24-HOUR TELEPHONE NUMBER OF THE PERSON RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE PROVIDED.
5. A MINIMUM OF 50' OF DRAIN ROCK, 1-1/2" DIAMETER OR LARGER, AT A MINIMUM DEPTH OF 6", SHALL BE INSTALLED AT EACH DRIVEWAY ENTRANCE TO THE SITE. THIS DOES NOT NEED TO BE DONE AT DRIVEWAYS, WHICH WILL BE CLOSED BY IMMOVABLE BARRICADES DURING CONSTRUCTION.
6. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS, BUT ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF THE CITY ENGINEER.
7. DURING THE RAINY SEASON ALL SIDEWALK AND PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF FROM ENTERING ANY STORM DRAINAGE SYSTEM.
8. THE EROSION AND SEDIMENTATION CONTROL PLAN COVERS ONLY THE FIRST WINTER DURING WHICH CONSTRUCTION IS TO TAKE PLACE. PLANS ARE TO BE RESUBMITTED PRIOR TO SEPTEMBER 1 OF EACH SUBSEQUENT YEAR UNTIL THE CITY ACCEPTS THE SITE IMPROVEMENTS.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT AND REPAIR ALL EROSION CONTROL FACILITIES AT THE END OF EACH WORK DAY DURING THE RAINY SEASON.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAN OUT SEDIMENT BASINS WHENEVER THE LEVEL OF SEDIMENT REACHES THE SEDIMENT CLEAN OUT LEVEL INDICATED ON THE PLANS.
11. IT IS THE RESPONSIBILITIES OF THE CONTRACTOR TO PROTECT TEMPORARY BORROW AREAS AND/OR STOCKPILES WITH APPROPRIATE EROSION CONTROL MEASURES SATISFACTORY TO THE CITY ENGINEER.
12. THE CLEANING OF PAVED STREETS, DURING AND AT THE COMPLETION OF CONSTRUCTION, SHALL BE PERFORMED WITH MECHANICAL SWEEPERS. THE USE OF WATER TRUCKS TO "WASH DOWN" THE STREET IS PROHIBITED.
13. SEAL OR SKIRT BETWEEN TRAILER & GRADING TO PREVENT EXPOSURE TO DRAIN.
14. THE FOLLOWING PLANS ARE ACCURATE FOR EROSION CONTROL PURPOSES ONLY.
15. THE INFORMATION ON THIS PLAN IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTORS TO COMPLY WITH THE REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD. FIELD CONDITIONS MAY NECESSITATE MODIFICATIONS TO THIS PLAN.
16. NO ON-SITE FUELING SHALL TAKE PLACE.



1. GRAVEL BAGS SHALL BE WOVEN GEOTEXTILE FABRIC.
2. CONSTRUCT ON GENTLY SLOPING STREETS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE OUT OF SUSPENSION.
3. LEAVE A GAP OF ONE BAG IN THE MIDDLE OF THE TOP ROW OF BAGS TO SERVE AS THE SPILLWAY. SPILLWAY HEIGHT SHALL BE LOWER THAN CURB HEIGHT & SUFFICIENT IN SIZE TO PASS FLOWS FROM SEVERE STORM EVENT.
4. PLACE 2 LAYERS OF GRAVEL BAGS OVER LAPPING BAGS AND PACK THEM TIGHTLY TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS. FILL BAG WITH 1/4" PEA GRAVEL
5. INSPECT & REPAIR FILTERS AFTER EA. STORM EVENT. REMOVE SEDIMENT WHEN 1/2 OF THE FILTER DEPTH HAS BEEN FILLED. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER FILTERING MEASURE.
6. SEDIMENT & GRAVEL SHALL BE IMMEDIATELY REMOVED FROM TRAVELED WAY OF ROAD.
7. GRAVEL BAG INLET PROTECTION ON ROADS OPEN TO PUBLIC WILL REQUIRE DELINEATION DEVICES TO ALERT MOTORISTS, BICYCLISTS AND PEDESTRIANS. THE USE OF SUCH DEVICES SHALL BE SUBJECT TO THE RESIDENT ENGINEERS APPROVAL.



SECTION A



DETAIL A

STORM DRAIN INLET FILTER BAG DETAIL

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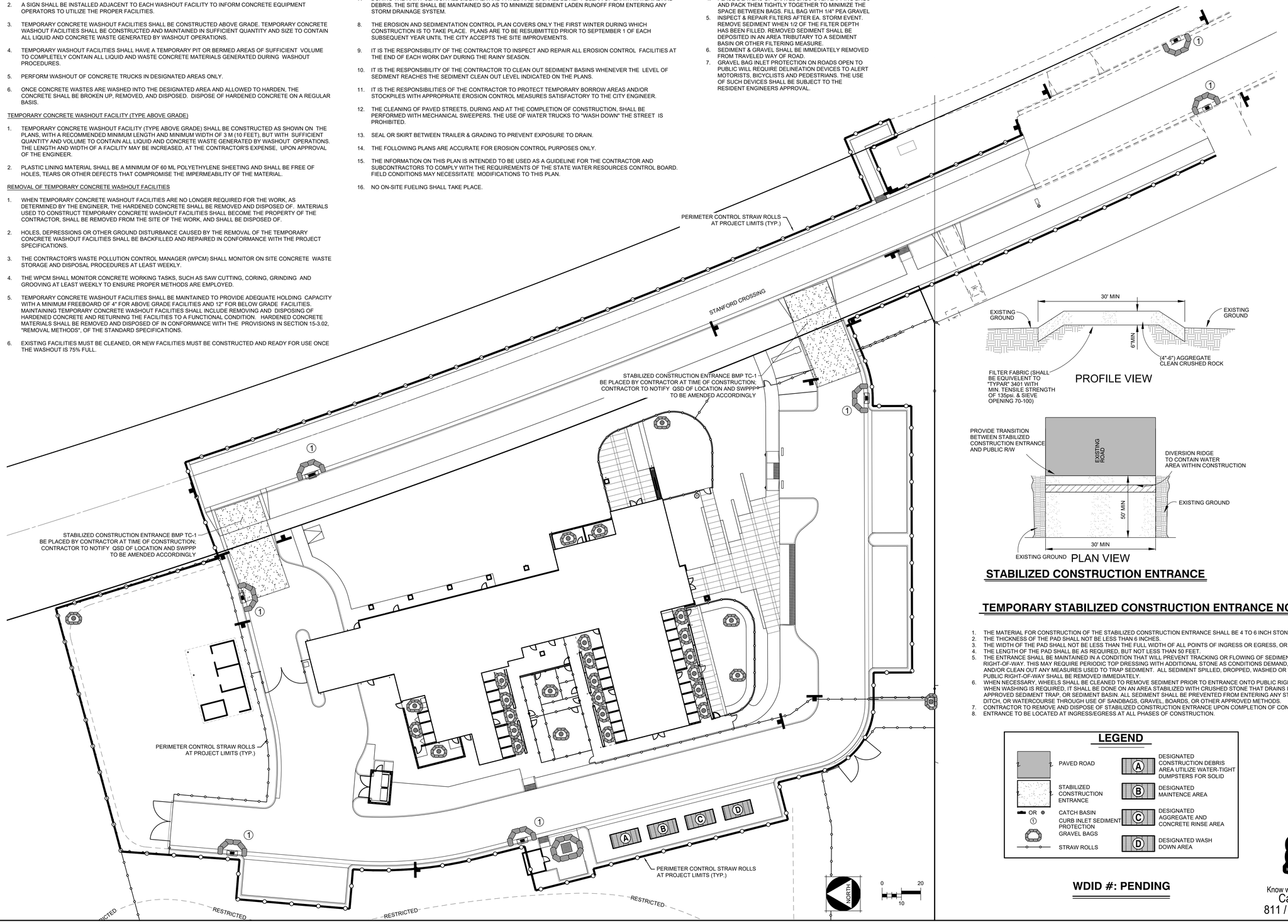

PROFILE VIEW

PLAN VIEW

STABILIZED CONSTRUCTION ENTRANCE

TEMPORARY STABILIZED CONSTRUCTION ENTRANCE NOTES

1. THE MATERIAL FOR CONSTRUCTION OF THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE 4 TO 6 INCH STONE.
2. THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 6 INCHES.
3. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS, OR 30' MIN.
4. THE LENGTH OF THE PAD SHALL BE AS REQUIRED, BUT NOT LESS THAN 50 FEET.
5. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY SHALL BE REMOVED IMMEDIATELY.
6. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP, OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SANDBAGS, GRAVEL, BOARDS, OR OTHER APPROVED METHODS.
7. CONTRACTOR TO REMOVE AND DISPOSE OF STABILIZED CONSTRUCTION ENTRANCE UPON COMPLETION OF CONSTRUCTION.
8. ENTRANCE TO BE LOCATED AT INGRESS/EGRESS AT ALL PHASES OF CONSTRUCTION.

LEGEND

- PAVED ROAD
- STABILIZED CONSTRUCTION ENTRANCE
- OR CATCH BASIN
- 1 CURB INLET SEDIMENT PROTECTION
- GRAVEL BAGS
- STRAW ROLLS
- A DESIGNATED CONSTRUCTION DEBRIS AREA UTILIZE WATER-TIGHT DUMPSTERS FOR SOLID
- B DESIGNATED MAINTENCE AREA
- C DESIGNATED AGGREGATE AND CONCRETE RINSE AREA
- D DESIGNATED WASH DOWN AREA

WDID #: PENDING

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Client:
CITY OF LATHROP

Project:
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15005 STANFORD CROSSING DRIVE
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REGISTERED PROFESSIONAL ENGINEER MARSHALL T. SWIFT No. C87439 CIVIL STATE OF CALIFORNIA

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Project No.: 25-115
Drawn By: RP
Checked By: SLS, MS

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EROSION CONTROL PLAN

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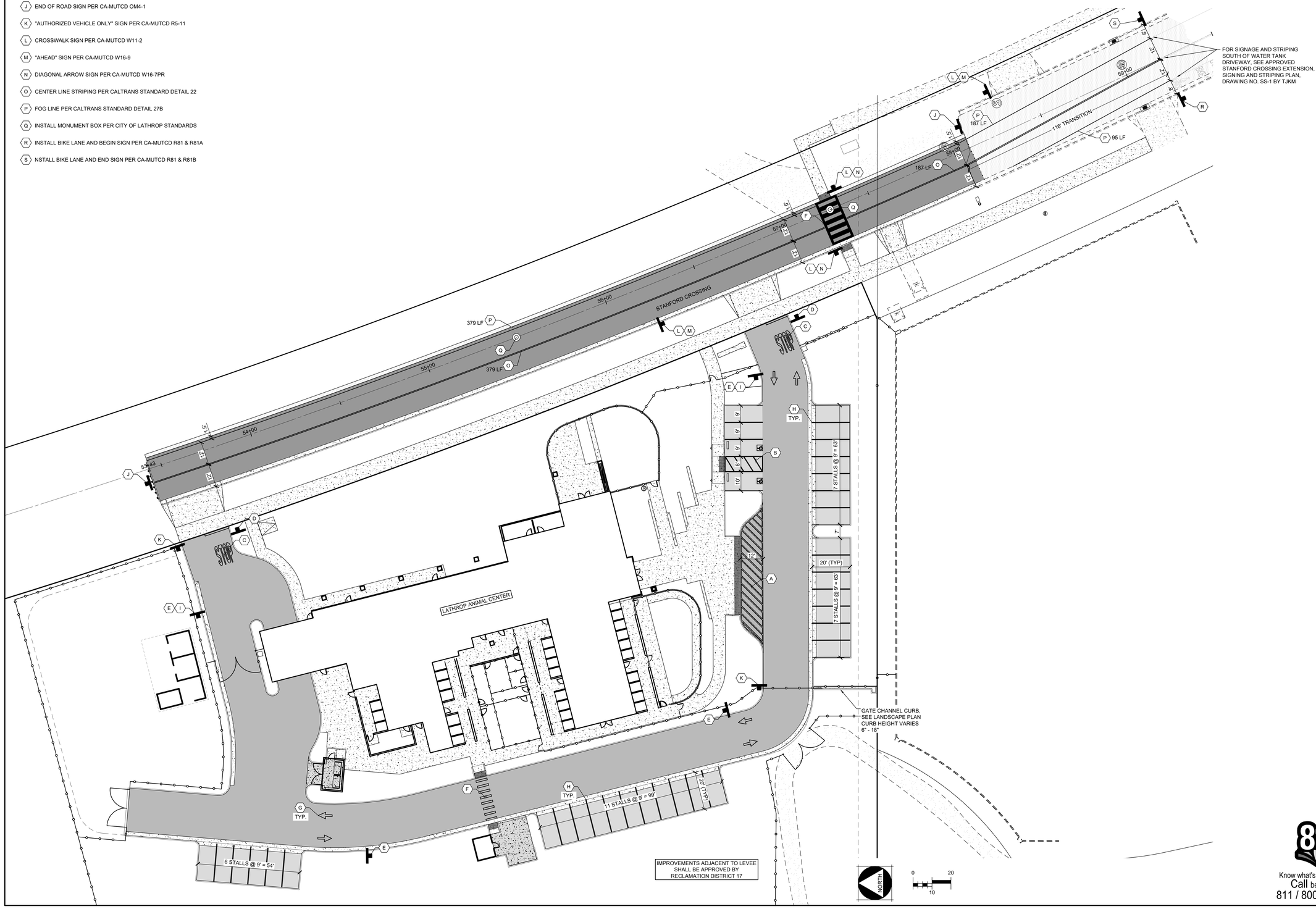
KEYNOTES:

- (A) LOADING ZONE:
  - 4" REFLECTIVE WHITE STRIPE @ 45° ANGLE, 5' APART
- (B) ADA PARKING PER DETAIL 9, SHEET A1.03
- (C) "STOP" PAVEMENT MARKING: STRIPE PER CA-MUTCD FIG. 3B-24
- (D) "STOP" SIGN PER CA-MUTCD R1.1
- (E) "NO STOPPING FIRE LANE" SIGN PER CA-MUTCD R26F
- (F) STANDARD CROSS WALK MARKINGS "LONGITUDINAL BARS" PER CA-MUTCD FIG. 3C-1. LADDER SHALL BE 2' BAR WITH 2' SPACE
- (G) REFLECTIVE THROUGH LANE USE ARROW PER CA-MUTCD FIG. 3B-21A
- (H) 4" WIDE WHITE STALL STRIPING
- (I) TOW AWAY SIGN AND PRIVATE ROAD SIGN PER CA-MUTCD R100B & R101
- (J) END OF ROAD SIGN PER CA-MUTCD OM4-1
- (K) "AUTHORIZED VEHICLE ONLY" SIGN PER CA-MUTCD R5-11
- (L) CROSSWALK SIGN PER CA-MUTCD W11-2
- (M) "AHEAD" SIGN PER CA-MUTCD W16-9
- (N) DIAGONAL ARROW SIGN PER CA-MUTCD W16-7PR
- (O) CENTER LINE STRIPING PER CALTRANS STANDARD DETAIL 22
- (P) FOG LINE PER CALTRANS STANDARD DETAIL 27B
- (Q) INSTALL MONUMENT BOX PER CITY OF LATHROP STANDARDS
- (R) INSTALL BIKE LANE AND BEGIN SIGN PER CA-MUTCD R81 & R81A
- (S) NSTALL BIKE LANE AND END SIGN PER CA-MUTCD R81 & R81B

STRIPING NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH: THE LATEST CITY OF LATHROP STANDARD DRAWINGS AND IMPROVEMENT STANDARDS, AND THE CURRENT EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD),
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EXISTING STRIPING THAT CONFLICTS WITH THE PROPOSED STRIPING AS DETERMINED BY THE ENGINEER.
3. ALL OFFSITE STRIPING SHALL BE THERMOPLASTIC. USE PAINT FOR BIKE SYMBOL AND ARROW.
4. ALL STRIPING IS IN REFERENCE TO LATEST CALTRANS STANDARD PLANS AND SPECIFICATIONS.
5. WHEN MAKING A CONNECTION TO AN EXISTING STREET END, THE APPLICANT SHALL BE RESPONSIBLE FOR REMOVING AND RECONSTRUCTING THE EXISTING ROADWAY TO MAKE A SATISFACTORY CONNECTION AS REQUIRED BY THE CITY.
6. WHEN MAKING CONNECTIONS TO EXISTING PAVEMENT, THE APPLICANT SHALL BE RESPONSIBLE FOR A 1-FOOT MINIMUM SAWCUT OF THE EXISTING PAVEMENT ALONG WITH AN ADDITIONAL 1-FOOT BY 1½" DEEP GRINDING AND PAVING. REFER TO STANDARD DRAWING ST-38 FOR PAVEMENT RESTORATION.



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SIGNAGE & STRIPING PLAN

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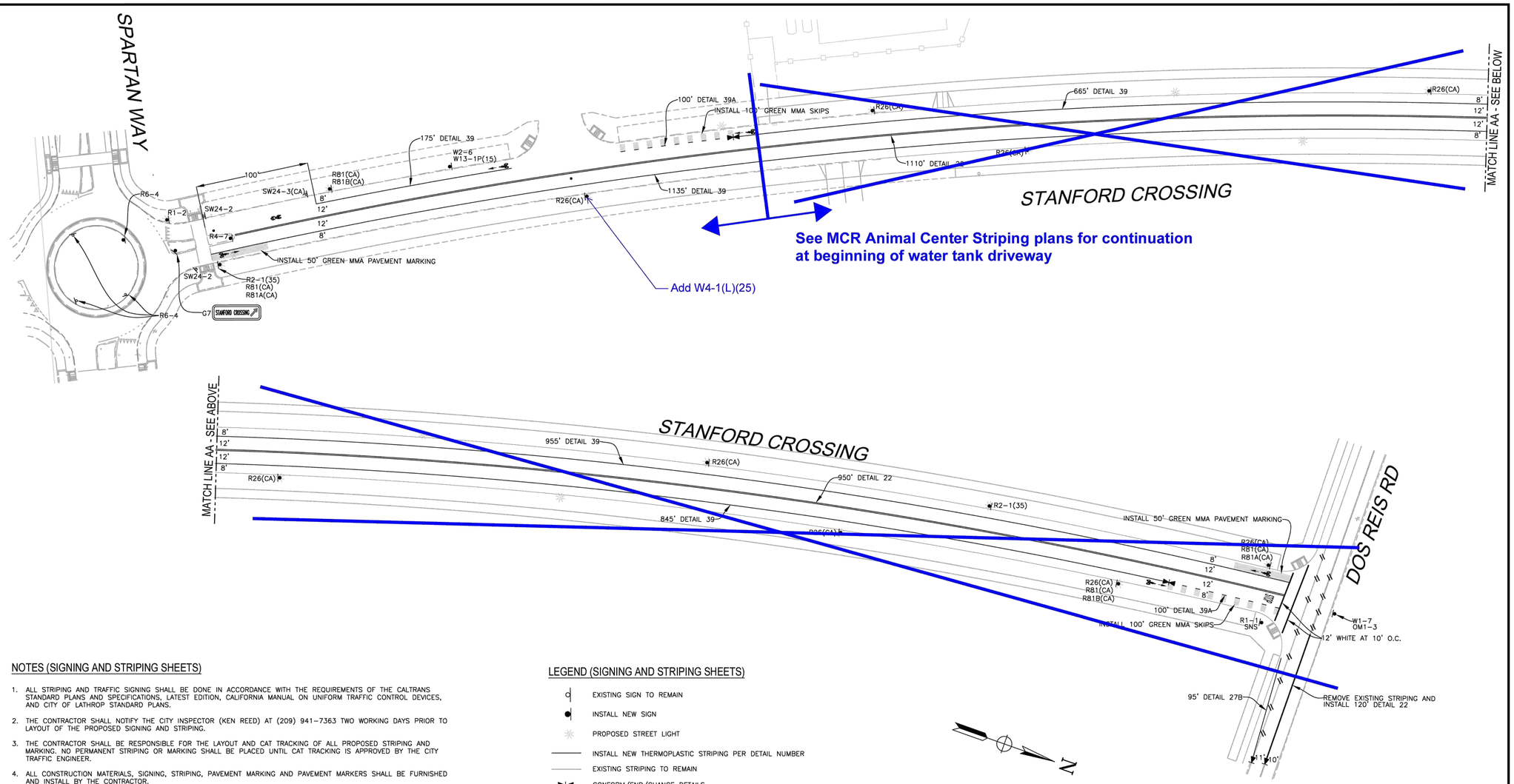

NOTES (SIGNING AND STRIPING SHEETS)

1. ALL STRIPING AND TRAFFIC SIGNING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALTRANS STANDARD PLANS AND SPECIFICATIONS, LATEST EDITION, CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND CITY OF LATHROP STANDARD PLANS.
2. THE CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR (KEN REED) AT (209) 941-7363 TWO WORKING DAYS PRIOR TO LAYOUT OF THE PROPOSED SIGNING AND STRIPING.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND CAT TRACKING OF ALL PROPOSED STRIPING AND MARKING. NO PERMANENT STRIPING OR MARKING SHALL BE PLACED UNTIL CAT TRACKING IS APPROVED BY THE CITY TRAFFIC ENGINEER.
4. ALL CONSTRUCTION MATERIALS, SIGNING, STRIPING, PAVEMENT MARKING AND PAVEMENT MARKERS SHALL BE FURNISHED AND INSTALL BY THE CONTRACTOR.
5. ALL PAVEMENT MARKINGS SHALL CONFORM TO CALTRANS PLAN A24. ALL PAVMENT STRIPING SHALL CONFORM TO CALTRANS STANDARD PLAN A20.
6. ALL DETAIL NUMBERS REFER TO CALTRANS STANDARD PLANS STRIPING DETAILS.
7. CONTRACTOR SHALL USE THERMOPLASTIC FOR ALL PAVEMENT STRIPING. CAT TRACKING SHALL BE APPROVED BY CITY TRAFFIC ENGINEER PRIOR TO INSTALLING ANY PERMANENT MARKINGS (MIN. 48 HRS ADVANCE NOTICE).
8. CONTRACTOR SHALL REMOVE EXISTING STRIPING THAT IS IN CONFLICT WITH PROPOSED STRIPING.
9. CONTRACTOR SHALL SLURRY SEAL ANY DAMAGED PAVEMENT AREAS PRIOR TO INSTALLING THERMOPLASTIC STRIPING.
10. a. ALL TRAFFIC CONTROL DEVICES REQUIRED FOR THE SAFE AND ORDERLY MOVEMENT OF VEHICLES AND PEDESTRIANS WITHIN AND THROUGH THE DEVELOPMENT SHALL BE IN PLACE PRIOR TO OCCUPANCY OF ANY UNITS.

    b. PRIOR TO ACCEPTANCE OF STREET IMPROVEMENTS BY THE CITY, THE DEVELOPER SHALL INSTALL ANY ADDITIONAL TRAFFIC SIGNS, STRIPING, AND PAVEMENT MARKINGS DETERMINED NECESSARY BY THE CITY'S TRAFFIC ENGINEER AFTER INSPECTION OF THE FINAL PHYSICAL IMPROVEMENTS FOR ALIGNMENT AND PROFILE TO INSURE SAFE OPERATION OF ALL INTERSECTIONS AND SEGMENTS OF STREETS.
11. CONTRACTOR SHALL INSTALL NEW BLUE FIRE HYDRANT MARKER AT ALL FIRE HYDRANTS.

LEGEND (SIGNING AND STRIPING SHEETS)

- EXISTING SIGN TO REMAIN
- INSTALL NEW SIGN
- PROPOSED STREET LIGHT
- INSTALL NEW THERMOPLASTIC STRIPING PER DETAIL NUMBER
- EXISTING STRIPING TO REMAIN
- CONFORM/END/CHANGE DETAILS
- PROPOSED FIRE HYDRANT BLUE MARKER (TYP)
- INSTALL NEW BIKE LANE MARKING PER CALTRANS STANDARD PLANS A24A AND A24C.
- INSTALL NEW BIKE SHARROW MARKING PER CALTRANS STANDARD PLANS A24C.

OM1-3	OBJECT MARKER
R1-1	STOP
R1-2	YIELD
R2-1	SPEED LIMIT
R4-7	KEEP RIGHT
R26(CA)	NO PARKING ANYTIME
R81(CA)	BIKE LANE
R81A(CA)	BEGIN
R81B(CA)	END
SW24-2	SCHOOL CROSSWALK WITH ARROW
SW24-3	SCHOOL CROSSWALK AHEAD
W1-7	2 DIRECTIONAL ARROW
W3-2	YIELD AHEAD
W2-6	ROUNDABOUT
W13-1P	ADVISORY SPEED

TJKM
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tjkm@tjkm.com

REGISTERED PROFESSIONAL ENGINEER — RUTA JARIWALA — No. 73840 — Exp. 6/30/25 — CIVIL — STATE OF CALIFORNIA

R.C.E. 73840

DESIGNED: ESB
DRAWN: AM
CHECKED: ESB

CITY OF LATHROP
STANFORD CROSSING EXTENTION
SIGNING AND STRIPING PLANS

DRAWING NO. SS-1 | SHEET 1 OF 1
DATE: MARCH 2025 | SCALE: 1"=40' | PROJECT NO. 228-054

L:\CITIES\Lathrop\228-054 Stanford Crossing Ext\ACAD\228-054 Stanford Crossing Ext SS 100%.dwg 04 Mar 2025 9:58:47am emaus

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STANFORD CROSSING EXTENSION - SIGNING & STRIPING PLANS

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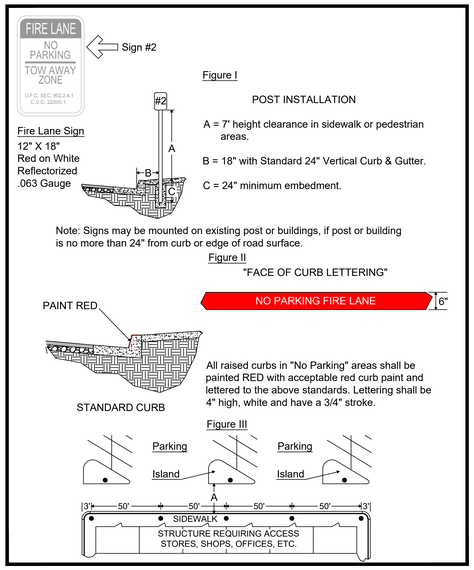
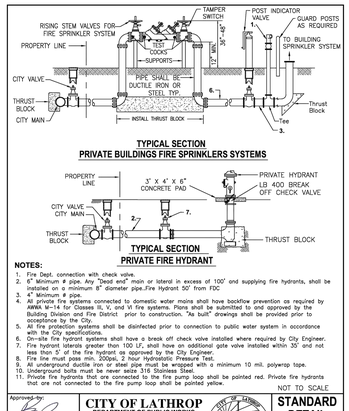


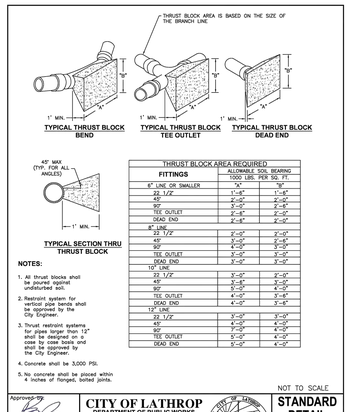


NOTES:

1. Fire Dept. connection with check valve.
2. 6" Minimum 4 pipe. Any "Dead end" main or lateral in excess of 100' and supplying fire hydrants, shall be installed on a minimum 8" diameter pipe.Fire Hydrant 50' from FDC
3. 4" Minimum 4 pipe.
4. All private fire systems connected to domestic water mains shall have backflow prevention as required by AWWA W-14 for Classes III, V, and VI fire systems. Plans shall be submitted to and approved by the Building Division and Fire District prior to construction. "As built" drawings shall be provided prior to acceptance by the City.
5. All fire protection systems shall be disinfected prior to connection to public water system in accordance with AWWA C-651 standards.
6. On-site fire hydrant systems shall have a break off check valve installed where required by City Engineer.
7. Fire hydrant laterals greater than 100 LF, shall have an additional gate valve installed within 35' and not less than 5' of the fire hydrant as approved by the City Engineer.
8. Fire line must pass min. 200psi, 2 hour Hydrostatic Pressure Test.
9. All underground ductile iron or steel pipe must be wrapped with a minimum 10 mil. polywrap tape.
10. Underground bolts must be never seize 316 Stainless Steel.
11. Private fire hydrants that are connected to the fire pump loop shall be painted red. Private fire hydrants that are not connected to the fire pump loop shall be painted yellow.

NOT TO SCALE

Approved by:	CITY OF LATHROP	STANDARD DETAIL
City Of Lathrop City Engineer	DEPARTMENT OF PUBLIC WORKS	
No. Revised Date	FIRE SERVICE CONNECTION DETAIL	Date: JULY 2024 Drawing No: F-5



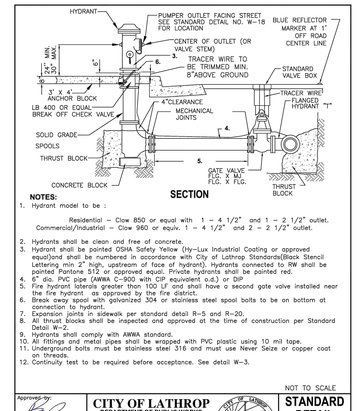
THRUST BLOCK AREA REQUIRED		
FITTINGS	ALLOWABLE SOIL BEARING 1000 LBS. PER SQ. FT.	
	"A"	"B"
6" LINE OR SMALLER	1'-4"	1'-8"
22 1/2°	2'-0"	2'-6"
45°	2'-0"	2'-6"
90°	2'-0"	2'-6"
TEE OUTLET	2'-6"	2'-0"
DEAD END	2'-8"	2'-0"
8" LINE		
22 1/2°	2'-0"	2'-0"
45°	2'-0"	2'-6"
90°	3'-0"	3'-0"
TEE OUTLET	2'-0"	2'-0"
DEAD END	3'-0"	3'-0"
10" LINE		
22 1/2°	2'-0"	2'-0"
45°	2'-6"	2'-0"
90°	3'-0"	3'-0"
TEE OUTLET	4'-0"	3'-6"
DEAD END	4'-0"	3'-6"
12" LINE		
22 1/2°	3'-0"	3'-0"
45°	4'-0"	4'-0"
90°	5'-0"	4'-0"
TEE OUTLET	5'-0"	4'-0"
DEAD END	5'-0"	4'-0"

NOTES:

1. All thrust blocks shall be poured against undisturbed soil.
2. Restraint system for vertical pipe bends shall be approved by the City Engineer.
3. Thrust restraint systems for pipes larger than 12" shall be designed on a case by case basis and shall be approved by the City Engineer.
4. Concrete shall be 3,000 PSI.
5. No concrete shall be placed within 4 inches of flanged, bolted joints.

NOT TO SCALE

Approved by:	CITY OF LATHROP	STANDARD DETAIL
City Of Lathrop City Engineer	DEPARTMENT OF PUBLIC WORKS	
No. Revised Date	THRUST BLOCK CHART	Date: JULY 2024 Drawing No: W-2

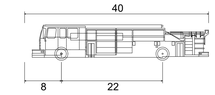


NOTES:

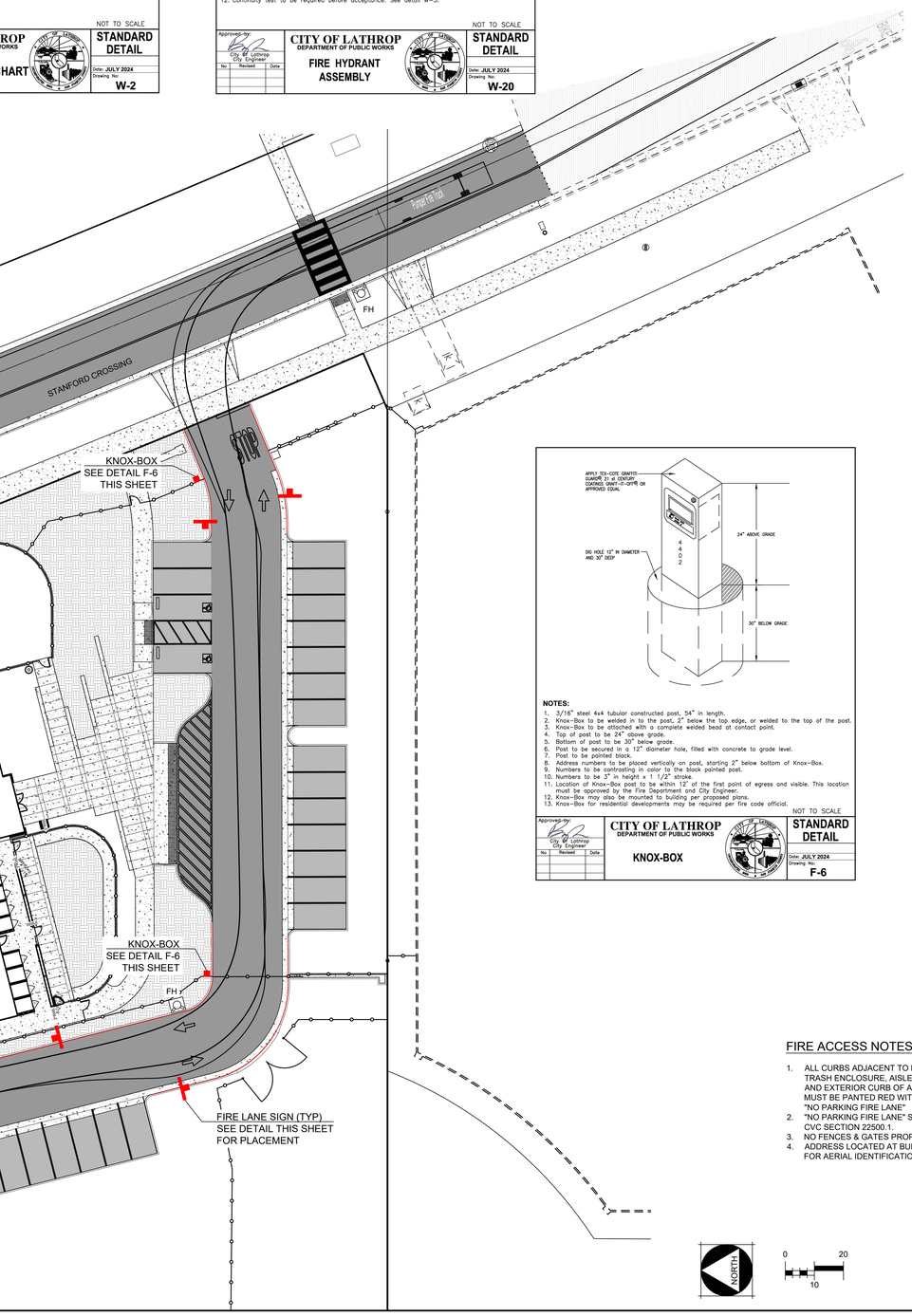
1. Hydrant model to be :
   Residential – Clow 850 or equal with 1 – 4 1/2" and 1 – 2 1/2" outlet.
   Commercial/Industrial – Clow 960 or equiv. 1 – 4 1/2" and 2 – 2 1/2" outlet.
2. Hydrants shall be clean and free of concrete.
3. Hydrant shall be painted OSHA Safety Yellow (Hy-Lux Industrial Coating or approved equal)and shall be numbered in accordance with City of Lathrop Standards(Black Stencil Lettering min 2" high, upstream of face of hydrant). Hydrants connected to RW shall be painted Pantone 512 or approved equal. Private hydrants shall be painted red.
4. 6" dia. PVC pipe (AWWA C-900 with CIP equivalent o.d.) or DIP
5. Fire hydrant laterals greater than 100 LF and shall have a second gate valve installed near the fire hydrant as approved by the fire district.
6. Break away spool with galvanized 304 or stainless steel spool bolts to be on bottom at connection to hydrant.
7. Expansion joints in sidewalk per standard detail R-5 and R-20.
8. All thrust blocks shall be inspected and approved at the time of construction per Standard Detail W-2.
9. Hydrants shall comply with AWWA standard.
10. All fittings and metal pipes shall be wrapped with PVC plastic using 10 mil tape.
11. Underground bolts must be stainless steel 316 and must use Never Seize or copper coat on threads.
12. Continuity test to be required before acceptance. See detail W-3.

NOT TO SCALE

Approved by:	CITY OF LATHROP	STANDARD DETAIL
City Of Lathrop City Engineer	DEPARTMENT OF PUBLIC WORKS	
No. Revised Date	FIRE HYDRANT ASSEMBLY	Date: JULY 2024 Drawing No: W-20



Pumper Fire Truck	
Overall Length	40.000ft
Overall Width	8.167ft
Overall Body Height	7.745ft
Min Body Ground Clearance	0.656ft
Track Width	8.167ft
Lock-to-lock time	5.00s
Max Wheel Angle	45.00°



NOTES:

1. 3/16" steel 4x4 tubular constructed post, 54" in length.
2. Knox-Box to be welded in to the post, 2" below the top edge, or welded to the top of the post.
3. Knox-Box to be attached with a complete welded bead at contact point.
4. Top of post to be 24" above grade.
5. Bottom of post to be 30" below grade.
6. Post to be secured in a 12" diameter hole, filled with concrete to grade level.
7. Post to be painted black.
8. Address numbers to be placed vertically on post, starting 2" below bottom of Knox-Box.
9. Numbers to be contrasting in color to the block painted post.
10. Numbers to be 3" in height x 1 1/2" stroke.
11. Location of Knox-Box post to be within 12' of the first point of egress and visible. This location must be approved by the Fire Department and City Engineer.
12. Knox-Box may also be mounted to building per proposed plans.
13. Knox-Box for residential developments may be required per fire code official.

NOT TO SCALE

Approved by:	CITY OF LATHROP	STANDARD DETAIL
City Of Lathrop City Engineer	DEPARTMENT OF PUBLIC WORKS	
No. Revised Date	KNOX-BOX	Date: JULY 2024 Drawing No: F-6

FIRE ACCESS NOTES:

1. ALL CURBS ADJACENT TO ENTRANCES TO A PARKING LOT, TRASH ENCLOSURE, AISLE WITHOUT PARKING, LOADING ZONE, AND EXTERIOR CURB OF ANY INTERIOR PARKING ISLANDS MUST BE PANTED RED WITH WHITE LETTERING DESIGNATING "NO PARKING FIRE LANE"
2. "NO PARKING FIRE LANE" SIGNS SHALL BE IN ACCORDANCE TO CVC SECTION 22500.1.
3. NO FENCES & GATES PROPOSED WITH DEVELOPMENT.
4. ADDRESS LOCATED AT BUILDING FRONT DOOR & ON ROOF FOR AERIAL IDENTIFICATION.

NORTH

0 10 20

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LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

Client:
CITY OF LATHROP

Project:
LATHROP ANIMAL CENTER
15005 STANFORD CROSSING DRIVE
LATHROP, CA 95330

REGISTERED PROFESSIONAL ENGINEER MARSHALL T. SWIFT No. C87439 CIVIL STATE OF CALIFORNIA

MCR ENGINEERING www.mcreng.com
MCR ENGINEERING, INC.
1242 DUPONT COURT
MANTECA , CA 95336
TEL : (209) 239 - 6229
FAX : (209) 239 - 8839

Project No.: 25-115
Drawn By: RP
Checked By: SLS, MS

No.	Description	Date

BID SET
6/23/2026

SITE FIRE ACCESS

F1.0

I:\mcr projects\2025\25-115 lathrop animal shelter v3\Engineering\ENFP\ 0 Site Fire Access.dwg, 12/9/2025 2:59:57 PM

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	QTY	SIZE	SPACING	WUCOLS	DETAIL
TREES								
	ACE OGL	Acer rubrum 'October Glory'	October Glory Red Maple	3	15 gal.	35`	Moderate	1/L6.1
	CER OKL	Cercis canadensis texensis 'Oklahoma'	Oklahoma Texas Redbud	3	24" box	30`	Moderate	2/L6.1
	GIN AUT	Ginkgo biloba 'Autumn Gold'	Autumn Gold Maidenhair Tree	11	15 gal.	35`	Moderate	1/L6.1
	OLE SWA	Olea europaea 'Swan Hill'	Swan Hill Fruitless Olive	4	24" box	25`	Low	2/L6.1
	PIS KEI	Pistacia chinensis 'Keith Davey'	Keith Davey Chinese Pistache	9	15 gal.	35`	Low	1/L6.1
	PLA BLO	Platanus x acerifolia 'Bloodgood'	Bloodgood London Plane Tree	12	15 gal.	40`	Moderate	1/L6.1
	ZEL VIL	Zelkova serrata 'Village Green'	Village Green Japanese Zelkova	5	15 gal.	35`	Moderate	1/L6.1
SHRUBS								
	Ach moo	Achillea x 'Moonshine'	Moonshine Yarrow	49	1 gal.	2`	Low	3/L6.1
	Cal kar	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	49	5 gal.	3.5'	Low	3/L6.1
	Car tmc	Carex tumulicola	Foothill Sedge	170	5 gal.	2`	Low	3/L6.1
	Cop teq	Coprosma x 'Tequila Sunrise'	Tequila Sunrise Coprosma	31	5 gal.	5`	Low	3/L6.1
	Dia var	Dianella tasmanica 'Variegata'	Variegated Flax Lily	55	5 gal.	2.5'	Moderate	3/L6.1
	Die iri	Dietes iridioides	Fortnight Lily	12	5 gal.	3`	Low	3/L6.1
	Hem crb	Hemerocallis x 'Cranberry Baby'	Cranberry Baby Daylily	29	1 gal.	2`	Moderate	3/L6.1
	Hem yel	Hemerocallis x 'Evergreen Yellow'	Evergreen Yellow Daylily	24	5 gal.	3`	Moderate	3/L6.1
	Hes brk	Hesperaloe parviflora 'Perpa'	Brakelights® Red Yucca	67	5 gal.	3`	Low	3/L6.1
	Jun blu	Juniperus horizontalis 'Blue Chip'	Blue Chip Creeping Juniper	88	5 gal.	4`	Low	3/L6.1
	Lav ott	Lavandula stoechas 'Otto Quast'	Otto Quast Spanish Lavender	65	5 gal.	2.5'	Low	3/L6.1
	Muh cap	Muhlenbergia capillaris	Pink Muhly Grass	87	5 gal.	4`	Low	3/L6.1
	Myr com	Myrtus communis	Common Myrtle	7	5 gal.	5`	Low	3/L6.1
	Ole lit	Olea europaea 'Montra'	Little Ollie® Olive	109	5 gal.	5`	Very Low	3/L6.1
	Per atr	Perovskia atriplicifolia	Russian Sage	6	5 gal.	6`	Low	3/L6.1
	Pho Apr	Phormium x 'Apricot Queen'	Apricot Queen New Zealand Flax	17	5 gal.	3.5'	Moderate	3/L6.1
	Rha min	Rhaphiolepis umbellata 'Minor'	Dwarf Yedda Hawthorn	95	5 gal.	4`	Low	3/L6.1
	Sal hot	Salvia microphylla 'Hot Lips'	Hot Lips Graham Sage	2	5 gal.	4`	Moderate	3/L6.1
	Vib spr	Viburnum tinus 'Spring Bouquet'	Spring Bouquet Laurustinus	29	5 gal.	5`	Low	3/L6.1
	Wes mor	Westringia fruticosa 'Morning Light'	Morning Light Coast Rosemary	61	5 gal.	3`	Low	3/L6.1
GROUND COVERS								
	Bac twi	Baccharis pilularis 'Twin Peaks #2'	Twin Peaks #2 Coyote Brush	264	1 gal.	48"	Low	4/L6.1
	Cop kir	Coprosma kirkii	Creeping Mirror Plant	36	1 gal.	48"	Low	4/L6.1
	Cot low	Cotoneaster dammeri 'Lowfast'	Lowfast Bearberry Cotoneaster	118	1 gal.	48"	Low	4/L6.1
	Jun blc	Juniperus horizontalis 'Blue Chip'	Blue Chip Creeping Juniper	238	1 gal.	42"	Low	4/L6.1
	Ley can	Leymus condensatus 'Canyon Prince'	Canyon Prince Giant Wild Rye	174	1 gal.	48"	Low	4/L6.1
	Myo par	Myoporum parvifolium	Trailing Myoporum	25	1 gal.	48"	Low	4/L6.1
INERT GROUNDCOVER								
	Cobble	Cobble	2"-4" Noiya	1,386 sf	4" min. depth		None	9/L6.1
	Rock	Crushed aggregate	1-1/2" minus	165 sf	3"min. depth		None	9/L6.1
	DG	Decomposed granite, loose	3/8" minus	515 sf	3"min. depth		None	10/L6.1
	DecGrvl	Decorative gravel	1-1/2" Sonoma Stone, with metal edging	507 sf	3"min. depth		None	9/L6.1
	Paddock	Paddock	Bare earth, graded	9,970 sf	Graded		None	
	Stbl DG	Stabilized Decomposed Granite	3/8" minus, with stabilizer	152 sf	3"min. depth		None	8/L6.1
SOD/SEED								
	Tur bol	Turf Sod Bolero Plus	Fescue blend	2,046 sf	sod		High	5/L6.1
SYNTHETIC TURF								
	Syn tur	Synthetic Turf	K9Grass, by ForeverLawn	1,403 sf	roll		None	6/L6.1

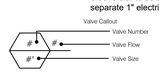
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	ARC	PSI	GPM	RADIUS	DETAIL
A	Hunter MP1000 PROS-04-PRS30-CV-F-R M Turf Rotator, 4in. pop-up with check valve, floguard, reclaimed body cap, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.	90-210	30		11'	8/L5.1
A	Hunter MP1000 PROS-04-PRS30-CV-F-R O Turf Rotator, 4in. pop-up with check valve, floguard, reclaimed body cap, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.	360	30	0.69	11'	8/L5.1
A	Hunter MP2000 PROS-04-PRS30-CV-F-R K Turf Rotator, 4in. pop-up with check valve, floguard, reclaimed body cap, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.	90-210	30		15'	8/L5.1
A	Hunter MP2000 PROS-04-PRS30-CV-F-R R Turf Rotator, 4in. pop-up with check valve, floguard, reclaimed body cap, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.	360	30	1.28	15'	8/L5.1
	Rain Bird RWS-B-C-P w/ RWS-SOCK 1401 Root Watering System with 4in. diameter x 36in. long with locking grate, semi-rigid mesh tube. Check Valve, Purple Grate, and Sand Sock. Rain Bird bubbler option as indicated: 1401 0.25 GPM, 1402 0.5 GPM, 1404 1.0 GPM, 1408 2.0 GPM.	360	20	0.25	3'	7/L5.1

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS	DETAIL
D4	Rain Bird 6504-PC, FC-NP 04 Turf Rotor, 4in. Pop-Up, Plastic Riser, Adjustable and Full Circle. With Removable Seal-A-Matic Check Valve, 1in. Female Threaded Inlet. With Non-Potable Purple Cover.	30	2.9	35'	12/L5.2
D6	Rain Bird 6504-PC, FC-NP 06 Turf Rotor, 4in. Pop-Up, Plastic Riser, Adjustable and Full Circle. With Removable Seal-A-Matic Check Valve, 1in. Female Threaded Inlet. With Non-Potable Purple Cover.	30	4.2	39'	12/L5.2

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	Rain Bird XCZ-100-PRB-COM 1in. Ball Valve with 1in. PESB Valve and 1in. Pressure Regulating 40psi Quick-Check Basket Filter. 5 GPM-20 GPM.	6/L5.1
P	Hunter PLD-BV Flush valve, plumbed to flush manifold at low point or at end of supply line of each zone. Install in 10" round plastic valve box.	8/L5.2
A	Toro T-YD-500-34 1/2in. Air Vent- MIPT Air Release and Vacuum Relief Valve	9/L5.2
D	Rain Bird OPERIND Drip System Operation Indicator, stem rises 6in. for clear visibility when drip system is charged to a minimum of 20psi. Includes 16in. of 1/4in. distribution tubing with connection fitting pre-installed.	6/L5.2
	Area to Receive Dripline Toro RGP-212-NP Sub-Surface Pressure Compensating Landscape Dripline with ROOTGUARD technology. 1 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. Purple Tubing for Effluent Water Use. Hatch direction shows direction for dripline laterals, adjust layout to conform to curb and swale layout using manufacturer recommended procedures.	5/L5.2

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	Rain Bird PESB-R Plastic Electric Remote-Control Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, size per plans. With Reclaimed Water ID, Purple Handle. Locate in purple valve box.	5/L5.1
	Nibco T-113 Class 125 bronze gate valve, same size as mainline pipe diameter at valve location. Provide purple handle, as available. Locate in purple valve box.	4/L5.1
MV	Superior 3100-RW 1-1/2" Normally Open Brass Master Valve with Purple Cross Handle for Reclaimed Water Use. Install in purple valve box.	3/L5.1
C	Calsense CS3-8-S/CS3-LR-KIT Controller in stainless steel pedestal. Confirm all requirements with City prior to ordering. Provide and connect to electrical supply. Pedestal mount, location to be approved in field by City.	1/L5.1
W	Toro RS1000 Wireless Rain Sensor. Mount as noted or approved, use controller power or optional transformer.	11/L5.2
FS	Calsense FM-1.5B Calsense impeller flow sensor. 1.5in. brass tee-mounted. 4 GPM-105 GPM.	3/L5.1
X X	Cap for future use Cap at the mainline or lateral line for future use. Stub and cap line for connection and continuation with future irrigation system to be installed along Stanford Crossing Drive.	10/L5.2
M	Point of Connection Connect to City reclaimed water system with new meter provided per civil engineer's plans. Refer to civil drawings for product info, details, and final location of POC. Design based on 40 psi downstream of the meter, verify and inform if less.	
	Irrigation Lateral Line: PVC Schedule 40 Purple Pipe	1/L5.2
	Irrigation Mainline: 1-1/2" PVC Schedule 40 Purple Pipe	1/L5.2
	Pipe Sleeve: PVC Class 200 SDR 21 Sleeve dia. to be 2x pipe diameter (min. 2"). Install wiring in separate 1" electrical conduit PVC at main line crossings.	10/L5.2



SITE CONSTRUCTION NOTES

GENERAL
1. Dimensions are from edges of paving, face of curb, face of wall, curb return, or corners of built elements, U.O.N.
2. Form work to be reviewed and approved prior to placing concrete. Provide 48-hours notice to Landscape Architect for review of forms.
3. Layout form work to conform to dimensions and grades indicated. Confirm that dimensions and grades conform to minimums provided on the plans as well as within minimum or maximum requirements from ADA or other applicable Codes.
4. Curves shall be smooth and flowing without abrupt angles or flat edges.
5. Slopes on paving shall not exceed 5% longitudinal slope or 2% cross slope, U.O.N.
6. Construction and finishes of the work of these plans shall conform to requirements of ADA or other applicable codes.
7. Install irrigation sleeves underneath areas to receive paving prior to setting the form work for the paving.

TUBULAR STEEL NOTES
1. Install tubular steel assemblies per the design intent of these plans. Contractor shall review details and inform landscape architect, prior to proceeding with work in question, of any modifications or concerns regarding structural integrity or constructability.
2. Assemblies shall meet the requirements of all applicable governing codes.
3. Provide shop drawings for approval.
4. Contractor shall provide all parts, hardware, fasteners, appurtenances or assemblies as required for a complete installation, whether all items are shown in these plans or not.
5. Sizes indicated in these plans are nominal; provide materials in commonly available sizes to meet the design intent. Use pre-fabricated components whenever possible, U.O.N.
6. Shop fabricate and finish assemblies to largest size practicable. Limit on-site welding and finishing.
7. Do not attach assemblies to buildings unless specifically called for in the plans.
8. Cap all open ends of pipe or tube to be water-tight, U.O.N.
9. All welds shall be ground smooth. No fasteners shall be located where they can catch passer-bys or cause injury.
10. All components shall be completely finished in either factory/shop powder-coating or other approved finish, or painted. When painted, finish with two coats rust-resistant primer and minimum one coat final semi-gloss rust-resistant enamel. All galvanized metal to receive a vinegar or diluted muriatic acid wash prior to priming. Color coat to completely cover all visible portions, including undersides of railings. Color per the plans or to be selected by the owner and/or landscape architect.

SITE WALL NOTES.
1. Contractor to provide engineering and shop drawings, including calculations, for all wall, pilasters, or other masonry structure, U.O.N. Design shall include all structural designs required and shall be signed and stamped by a engineer properly licensed in the State of California. Contractor is responsible for any processing or permitting required by the municipal department or jurisdiction presiding over the project. All costs to be borne by the contractor.
2. Where footings are adjacent to narrow planters, do not extend footings into planters. Provide pier, cantilever, or trench style footing design for walls to allow room for rootable soil for planting in the planter.
3. All color, finish, pattern, and materials shall be approved prior to installation. Submit product samples and product literature for all finishes and colors for review and approval by Landscape Architect and Owner's Representative.
4. Top of Wall (TW) is to the top course of CMU or CIP concrete interior wall, UON.
5. Provide all masonry ties and other standard appurtenances, and install with normal standards and practices for similar work commonly performed in this area, including quantities, sizes, and locations.

PLANTING NOTES

1. Examine site conditions and locate utilities prior to start of work. Report any conditions to Owner or Landscape Architect prior to starting work. Start of work implies acceptance of site conditions.
2. Confirm all plant quantities. The quantity of symbols on the plan shall have priority over the quantity provided in the legend.
3. Contractor is responsible for maintaining current condition of existing landscape to remain. Any damage that occurs to landscape after start of work shall be repaired or replaced at no additional expense to the Owner.
4. The contractor shall be responsible for the purchasing of all material to provide a complete installation per the intent of the contract documents.
5. The contractor is responsible for the protection of all material until the project has been completely turned over to the owner.
6. Landscape Architect reserves the right to review plant material prior to planting. Plant material may be rejected at any time due to condition, form, or damage, before or after planting. Installed and then rejected material shall be replaced by the contractor at contractor expense.
7. All plant material to be nursery grown in a climate similar to that of the project site. All plant material shall:
   7.1. Be vigorous and of normal habit of growth.
   7.2. Be pest and disease free, including insects, insect eggs and larvae.
   7.3. Be free of girdling roots, sun scald, abrasions, disease
8. Plants shall equal or exceed the standards as outlined by the American Standards for Nursery Stock and to applicable California Agriculture Code.
9. The landscape contractor shall, prior to installation of any plant material, provide for a Soil Agronomy Report (per WELO) from an approved soils laboratory that shall include recommendations for amending and preparing soil. Provide report to landscape architect for review and further direction regarding soil amendments and preparation. Soil analysis shall include: soil texture, infiltration rate, soil pH, total soluble salts, sodium, and percent organic matter.
10. Prepare the soil by removing all rock and debris larger than 1" from planting areas; legally dispose of materials removed from this process.
11. Amend the soil per the recommendations of the Soil Agronomy Report, including any additional amendments specified by the landscape architect, prior to the installation of plant material. Provided below is a list of minimum amendments that shall be incorporated into all planting pits and broadcast into soil to depth of 12", by means of a roto-tiller or equal, per 1000 square feet. This list is provided for Bid purposes and shall be augmented as recommended by the Soils Agronomy Report.
    4 cyds organic amendment. Cow manure or nitrogen-treated sawdust or ground bark humus
    15 lbs. soil sulfur
    15 lbs. 15-15-15 fertilizer
12. Notify landscape architect if site soil has been lime treated. Additional testing may be required to determine extent of lime treatment, compaction, or other condition that may be deleterious to healthy plant growth.
13. Provide weed control prior to planting. Thoroughly irrigate the site to promote germination of weed seeds that may be in the soil. Once germination has taken place spray the site with approved herbicide, (Round-Up or equal) at the rate specified by the manufacturer. Reapply as needed.
14. Planting pits for trees shall be excavated per the details provided in these plans. Planting pit backfill mix for all trees and shrubs shall consist of the following:
    6 parts 'on-site' soil
    4 parts organic amendment (same as described above)
    1 lb./yd. of mix 12-12-12 commercial fertilizer
    2 lbs./cu. yd. of mix Iron Sulfate
    10 lbs./cu. yd. of mix Agricultural Gypsum
15. Fertilizer tablets (20-10-5) to be placed in all planting pits in the following quantities per plant container size:
    1 gallon 1 tablet
    5 gallon 3 tablets
    15 gallon 9 tablets
    24" box 9 tablets
    36" box 15 tablets
16. Plant establishment period of ninety (90) days shall commence upon notice of Substantial Completion. Maintain all plant material throughout duration of plant establishment period to a point accepted by the Landscape Architect or Owner's Representative. See Planting Specifications for additional information.
17. Trees to be planted a min. of 5'-0" from edge of paving or walls, U.O.N.
    17.1. Tree planting shall conform to minimum distances away from lights or other utilities, as published in the local jurisdictions standards or guidelines.
18. Groundcover shall be installed continuous under all shrub masses, U.O.N.
19. Install vines with runners securely attached to the adjacent wall or trellis. Remove nursery stakes prior to completion of plant establishment period, unless otherwise directed by owner or landscape architect.
20. Prior to placing mulch, apply pre-emergent weed control, (Ronstar, or approved equal) in the amounts specified by the manufacturer.
21. Uniformly place a minimum 3" depth of recycled, organic mulch (3/4" - 1-1/2" chip size) over all shrub areas. Do not install mulch at turf areas. Color: Brown (un-dyed).
    21.1. "Gorilla Hair" is not acceptable unless specifically noted.
    21.2. Do not install bark mulch in areas of inundation (e.g. - bio-swale or basin). Place min. 3" layer of crushed aggregate mulch (¾") in these areas in place of the bark mulch. Transition back to bark mulch at top of slope, U.O.N. Submit sample for approval.

IRRIGATION NOTES

1. Contractor shall become familiar with the drawings, specifications, and site conditions prior to beginning work. Should conflicting information be found in these documents or between these documents and site conditions, notify the Landscape Architect before proceeding with the work in question.
2. All existing utilities, water lines, and fire hydrants shall remain connected and in full continuous operation unless specifically directed otherwise.
3. Irrigation design is based on a minimum 55 psi and maximum 70 psi static water pressure at the point of connection after the meter. Verify prior to ordering materials or starting work. Notify the Landscape Architect if water pressure differs from pressure on which the design is based. Variation from design pressure may require changes and additions to the equipment specifications.
   3.1. Booster Pump: If verified static pressure is less than minimum required design pressure, provide a booster pump as appropriate to yield the required minimum pressure based on anticipated maximum and minimum flows required for system to operate within water window requirements.
   3.2. Pressure Regulator: If verified static pressure is more than maximum design pressure, provide a pressure regulator as appropriate to yield the required pressure based on anticipated maximum and minimum flows required for system to operate within water window requirements.
4. Irrigation plan is diagrammatic. Actual routing of pipe and location of equipment shall be determined based on field conditions and as directed by the Landscape Architect. Install pipe and equipment in landscape areas wherever possible unless specifically noted otherwise. Stake layout of mainline and primary laterals for field review and approval prior to trenching. Field adjust existing irrigation system as necessary.
5. Pipe Sizing:
   5.1. Minimum pipe size shall be 3/4".
   5.2. Unlabeled pipe segments shall be equal to the size of the segment immediately upstream.
   5.3. In making adjustments to irrigation zone layouts Contractor shall be responsible to determine pipe sizes as required to deliver water pressure required for each outlet device considering flow rate, elevation changes, length of run, and other factors affecting pressure loss. Maximum flows in various pipe sizes shall not exceed the following guidelines. Flows may need to be significantly less than the maximums stated below to off-set other factors affecting pressure loss:
      5.3.1. 3/4": up to 8 gpm.
      5.3.2. 1": 8-12 gpm.
      5.3.3. 1-1/4": 12-22 gpm.
      5.3.4. 1-1/2": 22-30 gpm.
      5.3.5. 2": 30-50 gpm.
   5.4. Mainline pipe sizes shall not be changed without written approval of the Landscape Architect.
   5.5. Lateral line pipe runs of lengths greater than the typical distance between outlet devices shall not be made without written approval of the Landscape Architect.
6. Do not install the irrigation system as shown on the drawings when it is obvious in the field that obstructions, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Notify the Landscape Architect of all such conditions immediately upon discovery. In the event this notification is not provided, the Contractor shall assume full responsibility for all revisions necessary in response to field conditions with no additional compensation.
7. Controller(s):
   7.1. Locate as directed. Extend electrical service to controllers and dedicate one breaker of proper size for each controller. Provide one additional duplex outlet at each controller location.
   7.2. Electrical service to controllers shall be completed by a licensed electrical contractor in accordance with all applicable codes.
8. Sleeves:
   8.1. All pipe under existing and proposed paving shall be installed in sleeves.
   8.2. Sleeves are shown for contractor's convenience. Contractor shall be responsible to coordinate irrigation sleeve locations and installation with other trades.
   8.3. Extend all sleeves 18 inches beyond paving, cap and clearly mark by approved means to facilitate recovery.
   8.4. Install sleeves to accommodate future paving where indicated or as may be needed.
9. Spray Heads and Rotors:
   9.1. Install perpendicular to grade unless otherwise noted in plans.
10. Drip Emitters:
    10.1. Install drip supply lines minimum 3" below grade.
    10.2. Located emitters 3"-6" from main trunk or stem.
    10.3. Include bug-guard and galvanized stake(s) for each emitter.
11. Contractor to flush entire system and adjust all delivery devices and assemblies for complete coverage and reduced over-spray, prior to project completion.
12. An irrigation audit shall be completed by a Certified Landscape Irrigation Auditor in conformance with the jurisdictional Water Efficient Landscape Ordinance (WELO or MWELO). The audit shall be provided to the jurisdictional agency for review and approval.

RECLAIMED WATER IRRIGATION SYSTEM

This project uses reclaimed water for the irrigation system. All equipment, pipes, valve boxes, and other materials and appurtenances used in the irrigation system shall be the models for reclaimed water prepared by each respective manufacturer, whether indicated in the model number on the plans or not. The installation shall conform to the City's standards, or those of other jurisdictions having authority, for reclaimed irrigation systems, including provision and installation of any required signage or other markings.

RECLAIMED WATER NOTES

"Non-potable water" shall mean the same as "reclaimed water".
1. Irrigation system using reclaimed water shall comply with current State and Local/City codes.
   1.1. No work shall commence prior to verification and complete familiarization of these codes, references, restrictions, guidelines and specifications.
2. Coordinate with local water purveyor for start of work and any required inspections.
3. Irrigation with reclaimed water shall be accomplished in a time and manner that limits potential for public contact.
4. All equipment shall include purple colored markings, fittings, or appurtenances, supplied by the manufacturer, to clearly designate the use of reclaimed water for the irrigation system. Provide markings and tags for all above-ground equipment stating "Reclaimed Water" in a clear and obvious manner.
5. Provide reclaimed water warning tape with the wording "Caution, Reclaimed Waterline" along each pipe uses in the irrigation system.
6. Maintain minimum required clearances between domestic and reclaimed water lines. Verify with local jurisdiction for required minimums, 10' minimum unless otherwise approved by local codes or jurisdiction.

SITE ELECTRICAL AND LIGHTING NOTES

1. Coordinate with Landscape Architect or Owner for final product selection and location prior to purchase and installation.
2. All electrical outlets, fixtures, and wiring shall be U.L. listed and shall be installed per all local and UBC codes. If there is any discrepancy, the codes are to take precedence.
3. All mounting and installation is to be done per manufacturer's specifications and applicable codes.
4. Provide and extend electrical supply to lighting control system and lights.
5. Stub out electrical conduit to tree and/or shrubs locations prior to tree planting. Install fixtures after installation of trees; adjust location as needed based on final tree location.
6. Contractor shall verify location of all underground and surface utilities or built elements prior to construction and shall be held liable for repair of any damages incurred to repair back to match existing condition.
7. Wire routing is shown schematically to indicate lighting circuit groups. Wiring to be placed in planting areas 18" below finish grade. Wiring to be circuited and sized to provide a minimum recommended voltage based on manufacturer's recommendations.
8. Wire splices are to be avoided between fixtures. If necessary splice with watertight connector, such as Scotch Lok, Lite Splice, or equal.
9. Fixtures are shown schematically for location; final location of fixtures, direction of beam, and wattage of lamp to be determined with the Owners during the evening. Make adjustments as requested by Owner.
10. Adjust lights to provide desired effect. Convene meeting with Owner during evening or night hours to review and adjust lighting.

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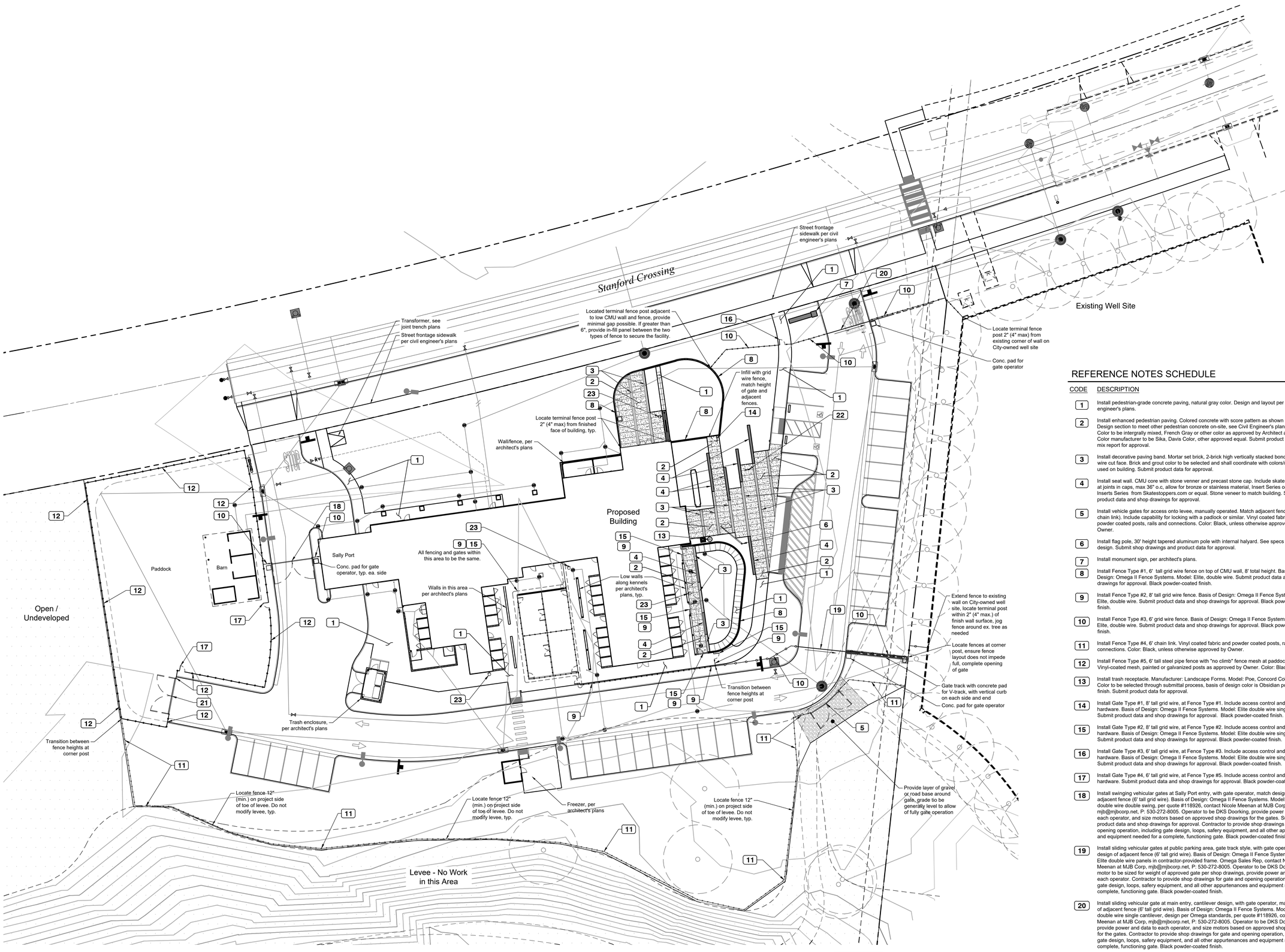
LANDSCAPE NOTES AND SCHEDULES

L0.1



REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION	DETAIL
1	Install pedestrian-grade concrete paving, natural gray color. Design and layout per civil engineer's plans.	
2	Install enhanced pedestrian paving. Colored concrete with score pattern as shown on plan. Design section to meet other pedestrian concrete on-site, see Civil Engineer's plans for design. Color to be intergrally mixed, French Gray or other color as approved by Architect and Owner. Color manufacturer to be Sika, Davis Color, other approved equal. Submit product data and mix report for approval.	
3	Install decorative paving band. Mortar set brick, 2-brick high vertically stacked bond pattern, wire cut face. Brick and grout color to be selected and shall coordinate with colors/material used on building. Submit product data for approval.	1/L2.1
4	Install seat wall. CMU core with stone venner and precast stone cap. Include skate deterrents at joints in caps, max 36" o.c, allow for bronze or stainless material, Insert Series or Diamond Inserts Series from Skatestoppers.com or equal. Stone veneer to match building. Submit product data and shop drawings for approval.	2/L2.1
5	Install vehicle gates for access onto levee, manually operated. Match adjacent fence desgin (6' chain link). Include capability for locking with a padlock or similar. Vinyl coated fabric and powder coated posts, rails and connections. Color: Black, unless otherwise approved by Owner.	9/L2.1
6	Install flag pole, 30' height tapered aluminum pole with internal halyard. See specs for basis of design. Submit shop drawings and product data for approval.	5/L2.2
7	Install monument sign, per architect's plans.	
8	Install Fence Type #1, 6' tall grid wire fence on top of CMU wall, 8' total height. Basis of Design: Omega II Fence Systems. Model: Elite, double wire. Submit product data and shop drawings for approval. Black powder-coated finish.	11/L2.1
9	Install Fence Type #2, 8' tall grid wire fence. Basis of Design: Omega II Fence Systems. Model: Elite, double wire. Submit product data and shop drawings for approval. Black powder-coated finish.	7/L2.1
10	Install Fence Type #3, 6' grid wire fence. Basis of Design: Omega II Fence Systems. Model: Elite, double wire. Submit product data and shop drawings for approval. Black powder-coated finish.	7/L2.1
11	Install Fence Type #4, 6' chain link. Vinyl coated fabric and powder coated posts, rails and connections. Color: Black, unless otherwise approved by Owner.	8/L2.1
12	Install Fence Type #5, 6' tall steel pipe fence with "no climb" fence mesh at paddock area. Vinyl-coated mesh, painted or galvanized posts as approved by Owner. Color: Black.	6/L2.2
13	Install trash receptacle. Manufacturer: Landscape Forms. Model: Poe, Concord Collection. Color to be selected through submittal process, basis of design color is Obsidian powdercoated finish. Submit product data for approval.	9/L2.2
14	Install Gate Type #1, 8' tall grid wire, at Fence Type #1. Include access control and exiting hardware. Basis of Design: Omega II Fence Systems. Model: Elite double wire single swing. Submit product data and shop drawings for approval. Black powder-coated finish.	3/L2.1
15	Install Gate Type #2, 8' tall grid wire, at Fence Type #2. Include access control and exiting hardware. Basis of Design: Omega II Fence Systems. Model: Elite double wire single swing. Submit product data and shop drawings for approval. Black powder-coated finish.	4/L2.1
16	Install Gate Type #3, 6' tall grid wire, at Fence Type #3. Include access control and exiting hardware. Basis of Design: Omega II Fence Systems. Model: Elite double wire single swing. Submit product data and shop drawings for approval. Black powder-coated finish.	4/L2.1
17	Install Gate Type #4, 6' tall grid wire, at Fence Type #5. Include access control and exiting hardware. Submit product data and shop drawings for approval. Black powder-coated finish.	12/L2.1
18	Install swinging vehicular gates at Sally Port entry, with gate operator, match design of adjacent fence (6' tall grid wire). Basis of Design: Omega II Fence Systems. Model: Elite double wire double swing, per quote #118926, contact Nicole Meenan at MJB Corp, mjb@mjbcorp.net, P: 530-272-8005. Operator to be DKS Doorking, provide power and data to each operator, and size motors based on approved shop drawings for the gates. Submit product data and shop drawings for approval. Contractor to provide shop drawings for gate and opening operation, including gate design, loops, safery equipment, and all other appurtenances and equipment needed for a complete, functioning gate. Black powder-coated finish.	5/L2.1
19	Install sliding vehicular gates at public parking area, gate track style, with gate operator, match design of adjacent fence (6' tall grid wire). Basis of Design: Omega II Fence Systems. Model: Elite double wire panels in contractor-provided frame. Omega Sales Rep, contact Nicole Meenan at MJB Corp, mjb@mjbcorp.net, P: 530-272-8005. Operator to be DKS Doorking and motor to be sized for weight of approved gate per shop drawings, provide power and data to each operator. Contractor to provide shop drawings for gate and opening operation, including gate design, loops, safery equipment, and all other appurtenances and equipment needed for a complete, functioning gate. Black powder-coated finish.	3/L2.2
20	Install sliding vehicular gate at main entry, cantilever design, with gate operator, match design of adjacent fence (6' tall grid wire). Basis of Design: Omega II Fence Systems. Model: Elite double wire single cantilever, design per Omega standards, per quote #118926, contact Nicole Meenan at MJB Corp, mjb@mjbcorp.net, P: 530-272-8005. Operator to be DKS Doorking, provide power and data to each operator, and size motors based on approved shop drawings for the gates. Contractor to provide shop drawings for gate and opening operation, including gate design, loops, safery equipment, and all other appurtenances and equipment needed for a complete, functioning gate. Black powder-coated finish.	1/L2.2
21	Install swinging double-leaf vehicle gates for access into paddock. 6' tall grid wire, manually operated. Include capability for locking with a padlock or similar. Black powder-coated finish.	6/L2.1
22	Install bike rack. Manufacturer: Landscape Forms. Model: Emerson, Concord Collection. Color to be selected through submittal process, basis of design color is Obsidian powdercoated finish. Submit product data for approval.	7/L2.2
23	Install dog waste receptacle with trash can. Mftr: DogiPot. Model: 1003HP-L. Color: Green. Submit product data for approval.	8/L2.2

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Richard Sam Harned
No. 6072
RENEWAL 08/31/2027
STATE OF CALIFORNIA

Client:
CITY OF LATHROP

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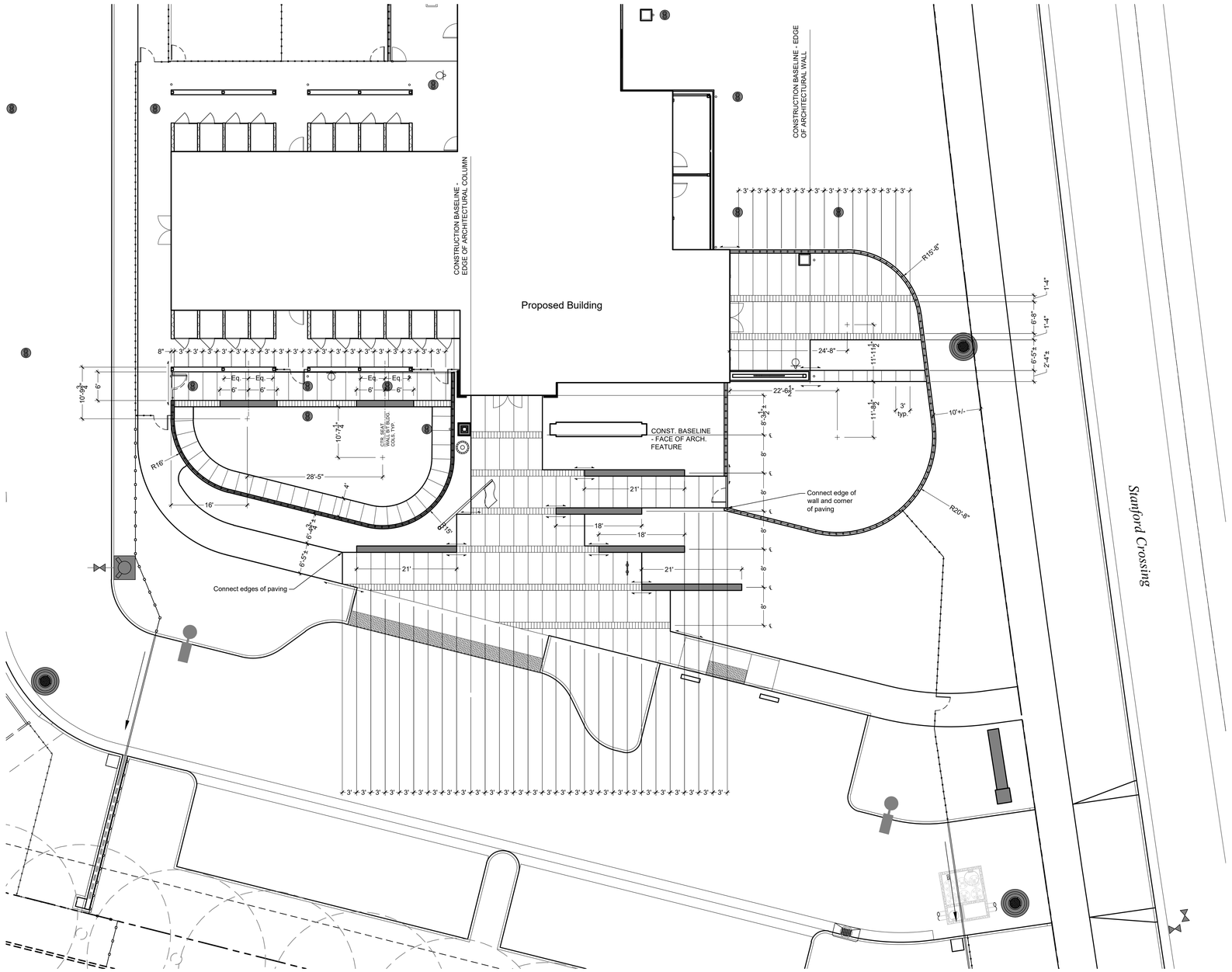
SITE CONSTRUCTION PLAN

L1.1



SITE CONSTRUCTION NOTES

GENERAL

1. Dimensions are from edges of paving, face of curb, face of wall, curb return, or corners of built elements, U.O.N.
2. Form work to be reviewed and approved prior to placing concrete. Provide 48-hours notice to Landscape Architect for review of forms.
3. Layout form work to conform to dimensions and grades indicated. Confirm that dimensions and grades conform to minimums provided on the plans as well as within minimum or maximum requirements from ADA or other applicable Codes.
4. Curves shall be smooth and flowing without abrupt angles or flat edges.
5. Slopes on paving shall not exceed 5% longitudinal slope or 2% cross slope, U.O.N.
6. Construction and finishes of the work of these plans shall conform to requirements of ADA or other applicable codes.
7. Install irrigation sleeves underneath areas to receive paving prior to setting the form work for the paving.

Existing conditions, to remain. No new work in this area. Grade edges around areas of new improvements to tie in with existing grades and to conform with overall site grading and drainage design provided by the Civil Engineer's plans.

Existing tree, to remain

NORTH

0' 5' 10' 20'

scale: 1" = 10'-0"

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

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LICENSED LANDSCAPE ARCHITECT — Richard Sam Harned — No. 6070 — STATE OF CALIFORNIA

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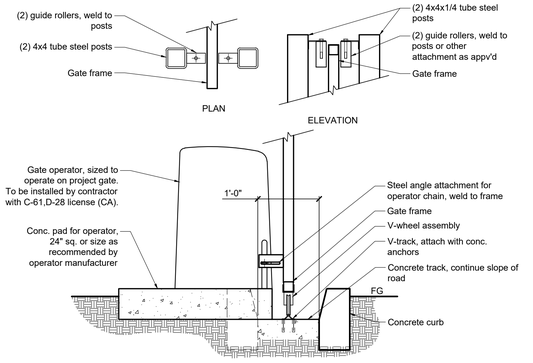
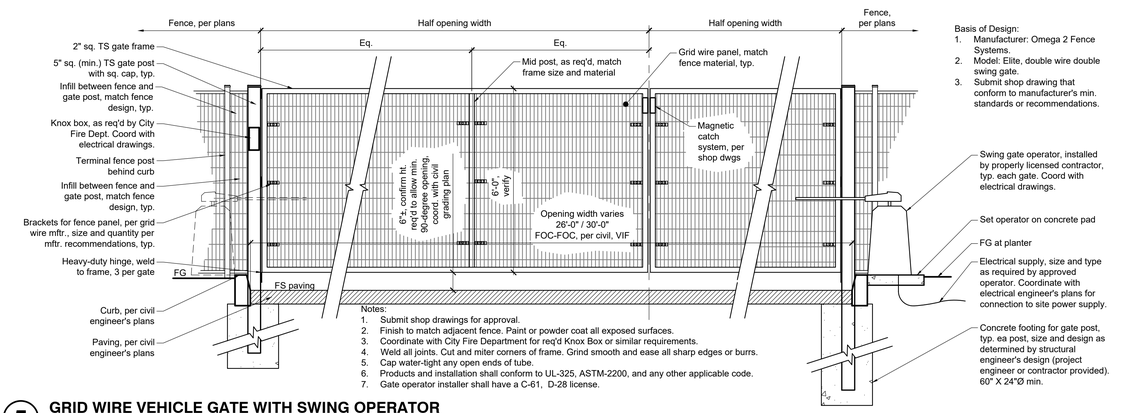
HORIZONTAL CONTROL PLAN - ENTRY PLAZA

L1.2



10 SLIDING AUTOMATIC GATE OPERATOR

1" = 1'-0" 323119.05-01

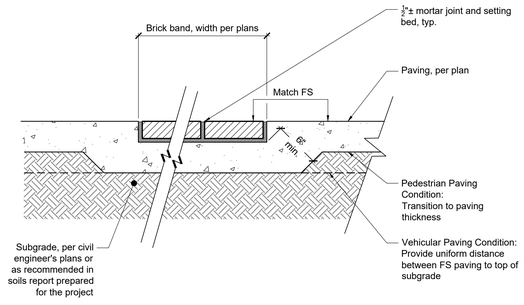


Basis of Design:
1. Manufacturer: Omega 2 Fence Systems.
2. Model: Elite, double wire double swing gate.
3. Submit shop drawing that conform to manufacturer's min. standards or recommendations.

Notes:
1. Submit shop drawings for approval.
2. Finish to match adjacent fence. Paint or powder coat all exposed surfaces.
3. Coordinate with City Fire Department for req'd Knox Box or similar requirements.
4. Weld all joints. Cut and miter corners of frame. Grind smooth and ease all sharp edges or burrs.
5. Cap water-tight any open ends of tube.
6. Products and installation shall conform to UL-325, ASTM-2200, and any other applicable code.
7. Gate operator installer shall have a C-61, D-28 license.

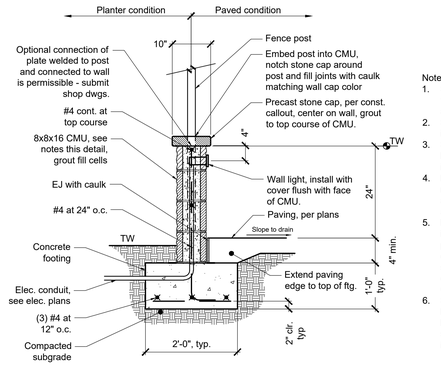
5 GRID WIRE VEHICLE GATE WITH SWING OPERATOR

1/2" = 1'-0" 323119.04-07



1 BRICK BAND AT CONCRETE

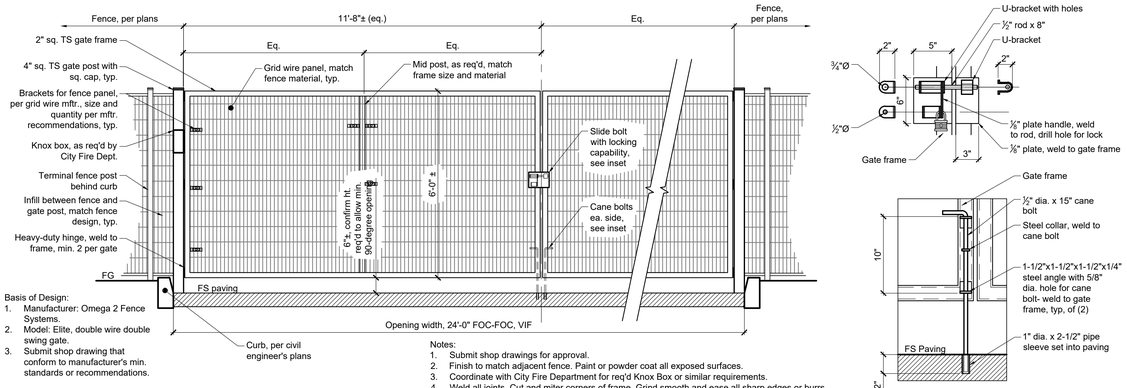
1 1/2" = 1'-0" 321416-04



Notes:
1. Supply product information for final selection of color and material.
2. Submit shop drawings for installation.
3. See Construction Callout legend for product information.
4. Design intent for CMU is to match the building. See architectural plans for color, and product info.
5. Footing and rebar design information in this detail is provided for bid purposes only; contractor shall submit structurally engineered drawings as required by the City for permitting purposes. See Site Lighting Plan for location of lights. See Electrical Plan for power supply and additional information.
6. See Site Lighting Plan for location of lights. See Electrical Plan for power supply and additional information.

11 LOW CMU WALL WITH FENCE AND WALL LIGHT

3/4" = 1'-0" 042263.19-10

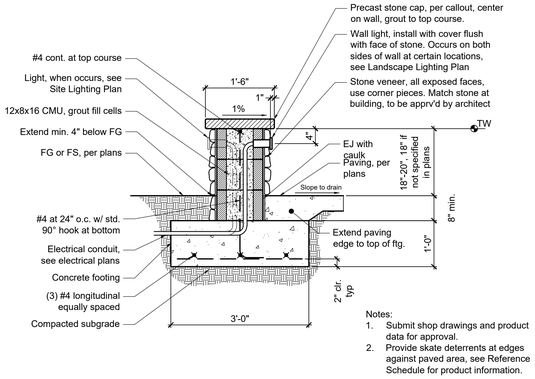


Basis of Design:
1. Manufacturer: Omega 2 Fence Systems.
2. Model: Elite, double wire double swing gate.
3. Submit shop drawing that conform to manufacturer's min. standards or recommendations.

Notes:
1. Submit shop drawings for approval.
2. Finish to match adjacent fence. Paint or powder coat all exposed surfaces.
3. Coordinate with City Fire Department for req'd Knox Box or similar requirements.
4. Weld all joints. Cut and miter corners of frame. Grind smooth and ease all sharp edges or burrs.
5. Cap water-tight any open ends of tube.

6 GRID WIRE VEHICLE GATE - MANUALLY OPERATED

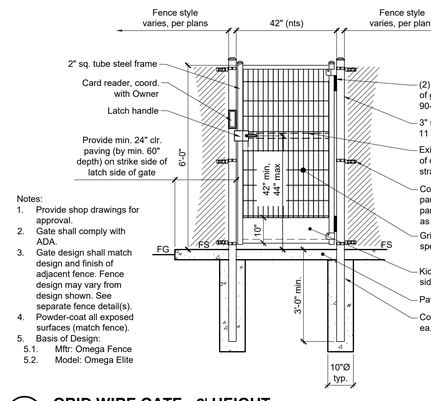
1/2" = 1'-0" 323119.04-02



Notes:
1. Submit shop drawings and product data for approval.
2. Provide skate deterrents at edges against paved area, see Reference Schedule for product information.

2 SEATWALL WITH STONE VENEER AND WALL LIGHT

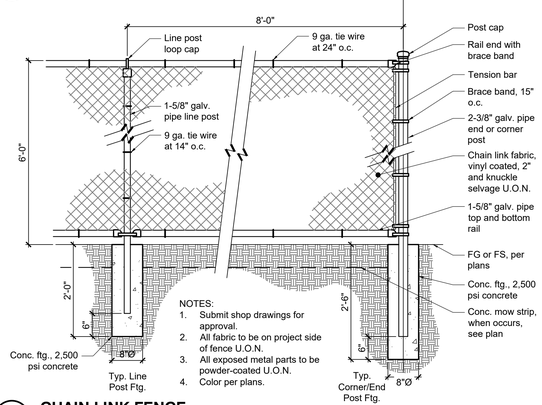
3/4" = 1'-0" 042266.23-04



Notes:
1. Provide shop drawings for approval.
2. Gate shall comply with ADA.
3. Gate design shall match design and finish of adjacent fence. Fence design may vary from design shown. See separate fence detail(s).
4. Powder-coat all exposed surfaces (match fence).
5. Basis of Design:
   5.1. Mftr: Omega Fence
   5.2. Model: Omega Elite

12 GRID WIRE GATE - 6' HEIGHT

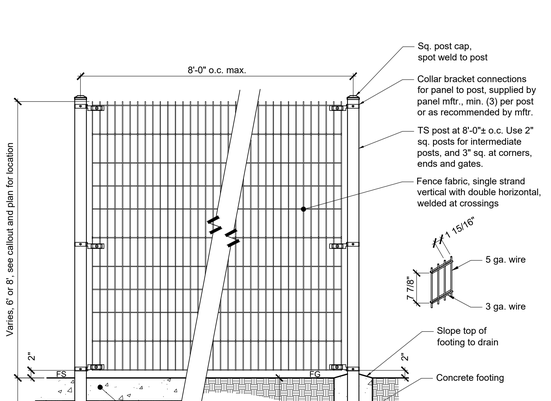
1/2" = 1'-0" 323119.03-62



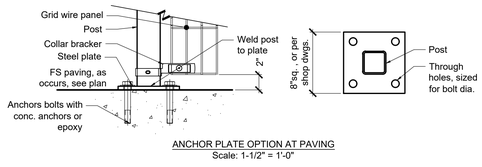
NOTES:
1. Submit shop drawings for approval.
2. All fabric to be on project side of fence U.O.N.
3. All exposed metal parts to be powder-coated U.O.N.
4. Color per plans.

8 CHAIN LINK FENCE

3/4" = 1'-0" 323113-08



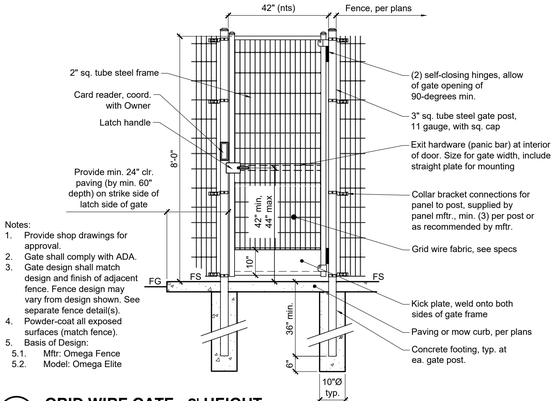
Notes:
1. Submit shop dwgs for approval.
2. Powder-coat finish, U.O.N. Color to be selected.
3. Maintain fence min. 2"/ max 4" from finish face of buildings or built elements, U.O.N.



ANCHOR PLATE OPTION AT PAVING
Scale: 1-1/2" = 1'-0"

7 GRID WIRE FENCE - VARYING HEIGHT

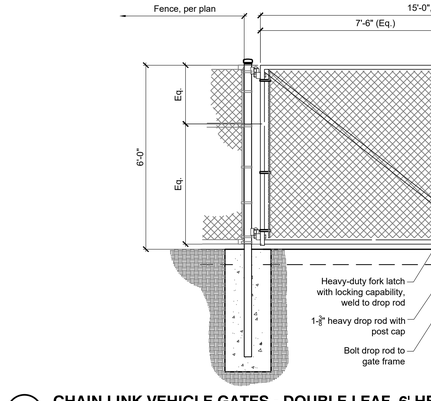
3/4" = 1'-0" 323119-10



Notes:
1. Provide shop drawings for approval.
2. Gate shall comply with ADA.
3. Gate design shall match design and finish of adjacent fence. Fence design may vary from design shown. See separate fence detail(s).
4. Powder-coat all exposed surfaces (match fence).
5. Basis of Design:
   5.1. Mftr: Omega Fence
   5.2. Model: Omega Elite

3 GRID WIRE GATE - 8' HEIGHT

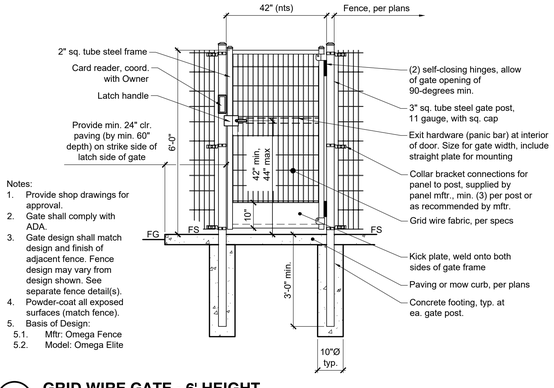
1/2" = 1'-0" 323119.03-60



NOTES:
1. Submit shop drawings for approval.
2. All fabric to be on project side of fence U.O.N.
3. All parts to be powder-coated, U.O.N.
4. Finish per plans.

9 CHAIN LINK VEHICLE GATES - DOUBLE LEAF, 6' HEIGHT

1/2" = 1'-0" 323113-19



Notes:
1. Provide shop drawings for approval.
2. Gate shall comply with ADA.
3. Gate design shall match design and finish of adjacent fence. Fence design may vary from design shown. See separate fence detail(s).
4. Powder-coat all exposed surfaces (match fence).
5. Basis of Design:
   5.1. Mftr: Omega Fence
   5.2. Model: Omega Elite

4 GRID WIRE GATE - 6' HEIGHT

1/2" = 1'-0" 323119.03-61

LDA DESIGNERS & ARCHITECTS

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www.harnedla.com

Client:
CITY OF LATHROP

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209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA
95330

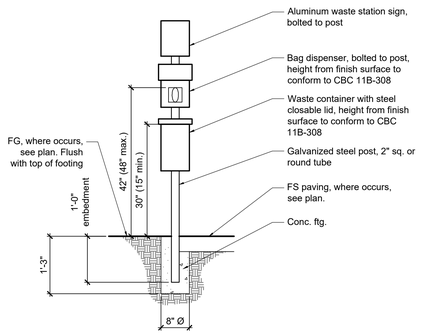
Project No.:	SHLA 25-57
Drawn By:	RSH
Checked By:	RSH

No.	Description	Date	By

BID SET
06/23/2026

SITE CONSTRUCTION DETAILS

L2.1



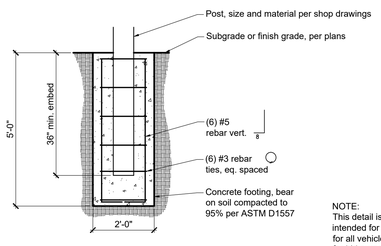
8 PET WASTE STATION

3/4" = 1'-0" 129323-02

Notes:
1. Powder coat finish on all metal parts, UON. Confirm color and finish prior to ordering.
2. See Construction Callout for manufacturer and model.

9 TRASH RECEPTACLE - SURFACE MOUNT

3/4" = 1'-0" 129323-10



NOTE:
This detail is typical footing detail intended for each gate post footing for all vehicle gates. It is provided for bid purposes only. Contractor shall provide an engineered shop drawing of the footing prepared by a structural engineer properly licensed in the state of California. Design shall be based on project site conditions.

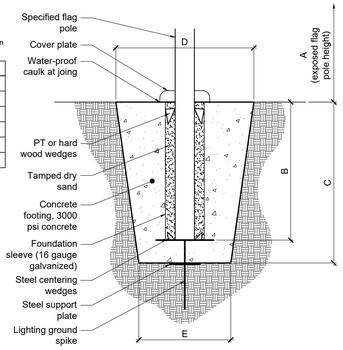
4 VEHICLE GATE FOOTING - TYPICAL

1/2" = 1'-0" 323119.04-59

Footing Dimensions: provided for reference and bid purpose. Final footing size based on approved shop drawings.

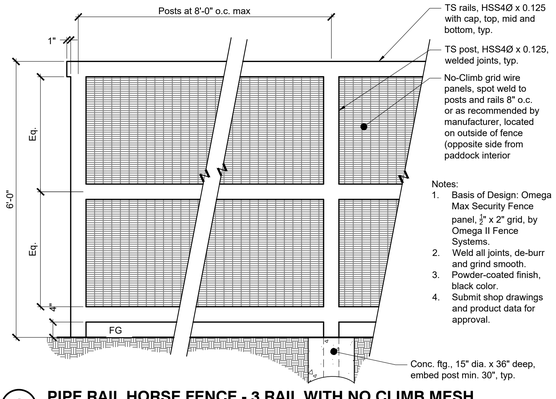
A	B	C	D	E
20'-0"	2'-0"	2'-6"	2'-6"	2'-0"
25'-0"	2'-6"	3'-0"	3'-0"	2'-0"
30'-0"	3'-0"	3'-6"	3'-0"	2'-0"
35'-0"	3'-6"	4'-0"	3'-0"	2'-6"
40'-0"	4'-0"	4'-6"	3'-9"	3'-0"
45'-0"	4'-6"	5'-0"	3'-9"	3'-0"

NOTES:
1. Detail is provided for reference and bid purposes. Contractor shall provide structural engineering for final footing design based on approved flag pole height, soil conditions and wind loads based on the project location. Structural engineer shall be properly licensed by the State.
2. Submit product data and shop drawings for approval.
3. Install per flag pole manufacturer's recommendations.



5 FLAG POLE FOOTING

3/4" = 1'-0" 324013-01

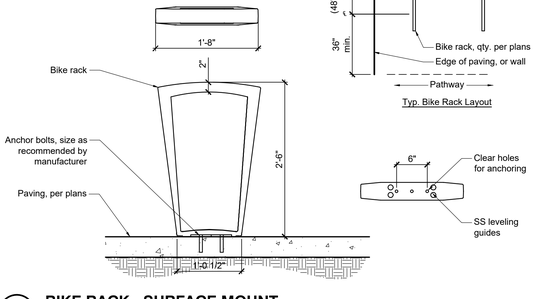


Notes:
1. Basis of Design: Omega Max Security Fence panel, ½" x 2" grid, by Omega II Fence Systems.
2. Weld all joints, de-burr and grind smooth.
3. Powder-coated finish, black color.
4. Submit shop drawings and product data for approval.

6 PIPE RAIL HORSE FENCE - 3 RAIL WITH NO CLIMB MESH

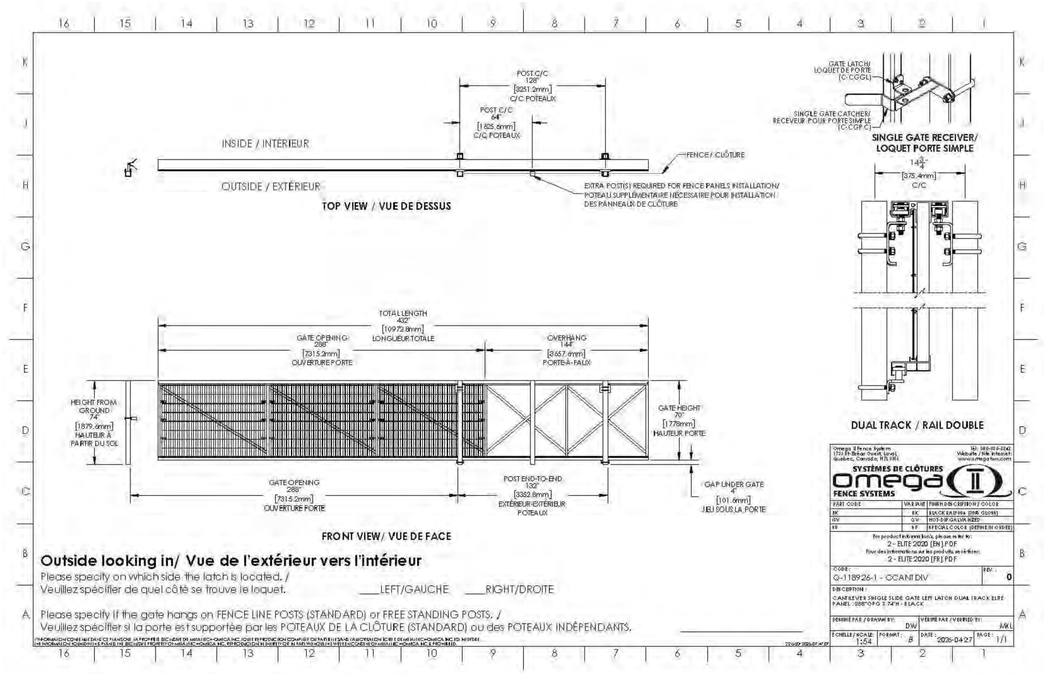
3/4" = 1'-0" 323119-39

Notes:
1. See Construction Callouts on plan for specific model.
2. Factory powder-coat finish powder coat, see Construction Callout for color selection.
3. Submit product data for approval.



7 BIKE RACK - SURFACE MOUNT

1" = 1'-0" 129313-14



Notes:
1. Submit shop drawings for approval.
2. Finish to match adjacent fence. Paint or powder coat all exposed surfaces.
3. Coordinate with City Fire Department for req'd Knox Box or similar requirements.
4. Weld all joints. Cut and miter corners of frame. Grind smooth and ease all sharp edges or burrs.
5. Cap water-tight any open ends of tube.
6. Products and installation shall conform to UL-325, ASTM-2200, and any other applicable code.
7. Gate operator installer shall have a C-61, D-28 license.

Basis of Design:
1. Manufacturer: Omega 2 Fence Systems.
2. Model: Elite, slide cantilever gate, double track.
3. Submit shop drawing that conform to manufacturer's min. standards or recommendations.

1 CANTILEVER SLIDING VEHICLE GATE WITH GATE OPERATOR

nts P-CI-LAT-19

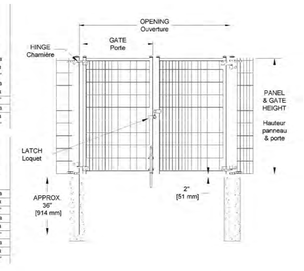
OMEGA ELITE DOUBLE SWING GATE
BARRIÈRE OMEGA ELITE À BATTANT DOUBLE

GATE POST DIMENSIONS

GATE HEIGH	OPENING OF A SINGLE LEAF OVER	OPENING OF A SINGLE LEAF UP TO	POST
4'-0"	3'	11'	3" x 3" 11 ga
	11'	16'	4" x 4" 11ga
	16'	19'	6" x 6" 3/16"
6'-0"	3'	9'	3" x 3" 11 ga
	9'	13'	4" x 4" 11ga
	13'	19'	6" x 6" 3/16"
8'-0"	3'	7'	3" x 3" 11 ga
	7'	9'	4" x 4" 11ga
	9'	19'	6" x 6" 3/16"

DIMENSION DES POTEAUX DE PORTE

HAUTEUR DE PORTE	OUVERTURE D'UN SIMPLE BATTANT AU DESSUS	OUVERTURE D'UN SIMPLE BATTANT JUSQU'À	POTEAU
4'-0"	3'	11'	3" x 3" 11 ga
	11'	16'	4" x 4" 11ga
	16'	19'	6" x 6" 3/16"
6'-0"	3'	9'	3" x 3" 11 ga
	9'	13'	4" x 4" 11ga
	13'	19'	6" x 6" 3/16"
8'-0"	3'	7'	3" x 3" 11 ga
	7'	9'	4" x 4" 11ga
	9'	19'	6" x 6" 3/16"



SYSTÈMES DE CLÔTURES omega II FENCE SYSTEMS
Omega II Fence Systems, 1735, Blvd. St-Elzear West, Laval, Quebec, H7L 3N6
Tel: 450-686-9600, 1-800-836-6342, Fax: 450-681-5318, www.omegafence.com
WEB
REVISION: 1207

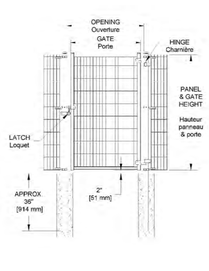
OMEGA ELITE SINGLE SWING GATE
BARRIÈRE OMEGA ELITE À BATTANT SIMPLE

GATE POST DIMENSIONS

GATE HEIGH	OPENING OF A SINGLE LEAF OVER	OPENING OF A SINGLE LEAF UP TO	POST
4'-0"	3'	11'	3" x 3" 11 ga
	11'	16'	4" x 4" 11ga
	16'	19'	6" x 6" 3/16"
6'-0"	3'	9'	3" x 3" 11 ga
	9'	13'	4" x 4" 11ga
	13'	19'	6" x 6" 3/16"
8'-0"	3'	7'	3" x 3" 11 ga
	7'	9'	4" x 4" 11ga
	9'	19'	6" x 6" 3/16"

DIMENSION DES POTEAUX DE PORTE

HAUTEUR DE PORTE	OUVERTURE D'UN SIMPLE BATTANT AU DESSUS	OUVERTURE D'UN SIMPLE BATTANT JUSQU'À	POTEAU
4'-0"	3'	11'	3" x 3" 11 ga
	11'	16'	4" x 4" 11ga
	16'	19'	6" x 6" 3/16"
6'-0"	3'	9'	3" x 3" 11 ga
	9'	13'	4" x 4" 11ga
	13'	19'	6" x 6" 3/16"
8'-0"	3'	7'	3" x 3" 11 ga
	7'	9'	4" x 4" 11ga
	9'	19'	6" x 6" 3/16"



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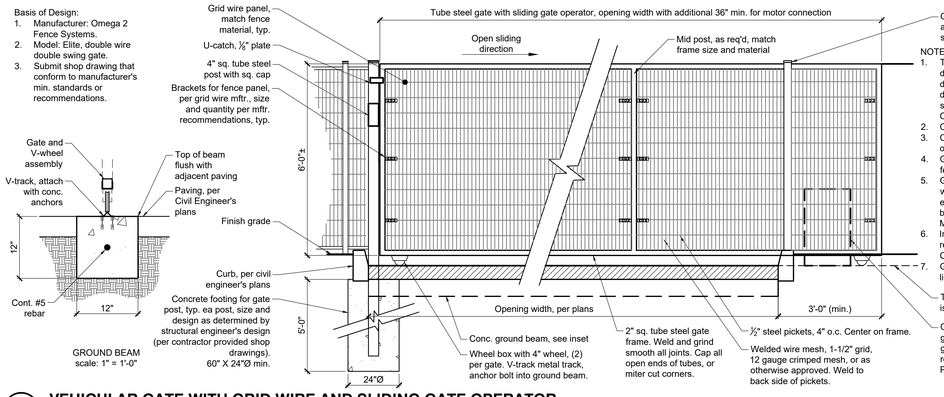
WEB
REVISION: 1207

2 GRID WIRE SWING GATES - MANUFACTURER STD. PRODUCT SHEETS

nts P-CI-LAT-20

Basis of Design:
1. Manufacturer: Omega 2 Fence Systems.
2. Model: Elite, double wire double swing gate.
3. Submit shop drawing that conform to manufacturer's min. standards or recommendations.



NOTES:
1. This detail is for bid purposes and to show design intent. Contractor shall provide shop drawings for each gate, and an engineered drawing(s) of the footing(s) prepared by a structural engineer licensed in the state of California.
2. Conform to all applicable codes.
3. Coordinate with requirements of gate operator(s) to be used on this project.
4. Gate design to match design of adjacent fencing.
5. Gate to have all finished surfaces painted with min. (1) layer of primer and (2) coats of enamel paint, color to be selected. Paint to be commercial grade exterior paint by Kelly Moore, or equal.
6. Include Knox Box or other equipment as required by City Fire Department. Coordinate with Fire Dept. as necessary.
7. Gate operator installer to have C-61, D-28 license (California).

3 VEHICULAR GATE WITH GRID WIRE AND SLIDING GATE OPERATOR

1/2" = 1'-0" 323119.04-06

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209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA
95330

Project No.: SHLA 25-57
Drawn By: RSH
Checked By: RSH

No.	Description	Date	By

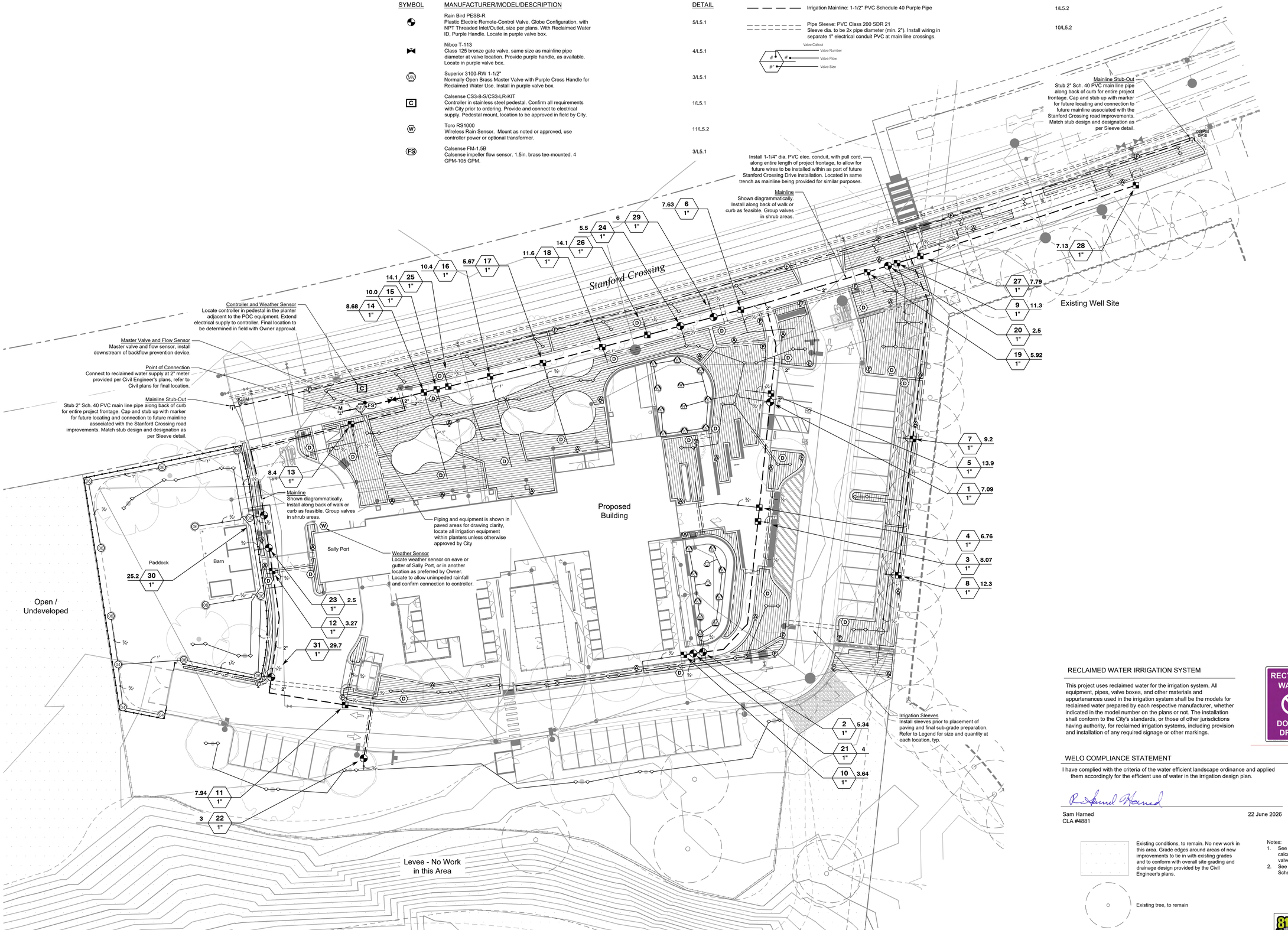
BID SET
06/23/2026

SITE CONSTRUCTION DETAILS

L2.2

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
D	Rain Bird OPERIND Drip System Operation Indicator, stem rises 6in. for clear visibility when drip system is charged to a minimum of 20psi. Includes 16in. of 1/4in. distribution tubing with connection fitting pre-installed.	6/L5.2
	Area to Receive Dripline Toro RGP-212-NP Sub-Surface Pressure Compensating Landscape Dripline with ROOTGUARD technology. 1 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. Purple Tubing for Effluent Water Use. Hatch direction shows direction for dripline laterals, adjust layout to conform to curb and swale layout using manufacturer recommended procedures.	5/L5.2
	Rain Bird PESB-R Plastic Electric Remote-Control Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, size per plans. With Reclaimed Water ID, Purple Handle. Locate in purple valve box.	5/L5.1
	Nibco T-113 Class 125 bronze gate valve, same size as mainline pipe diameter at valve location. Provide purple handle, as available. Locate in purple valve box.	4/L5.1
MV	Superior 3100-RW 1-1/2" Normally Open Brass Master Valve with Purple Cross Handle for Reclaimed Water Use. Install in purple valve box.	3/L5.1
C	Calsense CS3-8-S/CS3-LR-KIT Controller in stainless steel pedestal. Confirm all requirements with City prior to ordering. Provide and connect to electrical supply. Pedestal mount, location to be approved in field by City.	1/L5.1
W	Toro RS1000 Wireless Rain Sensor. Mount as noted or approved, use controller power or optional transformer.	11/L5.2
FS	Calsense FM-1.5B Calsense impeller flow sensor. 1.5in. brass tee-mounted. 4 GPM-105 GPM.	3/L5.1
FS	Calsense FM-1.5B Calsense impeller flow sensor. 1.5in. brass tee-mounted. 4 GPM-105 GPM.	3/L5.1
X X	Cap for future use Cap at the mainline or lateral line for future use. Stub and cap line for connection and continuation with future irrigation system to be installed along Stanford Crossing Drive.	10/L5.2
M 1"	Point of Connection Connect to City reclaimed water system with new meter provided per civil engineer's plans. Refer to civil drawings for product info, details, and final location of POC. Design based on 40 psi downstream of the meter, verify and inform if less.	
	Irrigation Lateral Line: PVC Schedule 40 Purple Pipe	1/L5.2
	Irrigation Mainline: 1-1/2" PVC Schedule 40 Purple Pipe	1/L5.2
	Pipe Sleeve: PVC Class 200 SDR 21 Sleeve dia. to be 2x pipe diameter (min. 2"). Install wiring in separate 1" electrical conduit PVC at main line crossings.	10/L5.2

Valve Callout
Valve Number
Valve Flow
Valve Size



RECLAIMED WATER IRRIGATION SYSTEM

This project uses reclaimed water for the irrigation system. All equipment, pipes, valve boxes, and other materials and appurtenances used in the irrigation system shall be the models for reclaimed water prepared by each respective manufacturer, whether indicated in the model number on the plans or not. The installation shall conform to the City's standards, or those of other jurisdictions having authority, for reclaimed irrigation systems, including provision and installation of any required signage or other markings.

RECYCLED WATER
DO NOT DRINK

WELO COMPLIANCE STATEMENT

I have complied with the criteria of the water efficient landscape ordinance and applied them accordingly for the efficient use of water in the irrigation design plan.

Sam Harned
CLA #4881

22 June 2026

Existing conditions, to remain. No new work in this area. Grade edges around areas of new improvements to tie in with existing grades and to conform with overall site grading and drainage design provided by the Civil Engineer's plans.

Existing tree, to remain

Notes:
1. See Sheet L7.1 for WELO calculations and notes, and valve table.
2. See Sheet L0.1 for Irrigation Schedule and notes.

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

LDA
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LICENSED LANDSCAPE ARCHITECT
Richard Sam Harned
No. 4881
STATE OF CALIFORNIA

Client:
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209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
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95330

Project No.:	SHLA 25-57
Drawn By:	RSH
Checked By:	RSH

No.	Description	Date	By

BID SET
06/23/2026

IRRIGATION PLAN

L3.1

PLANT SCHEDULE

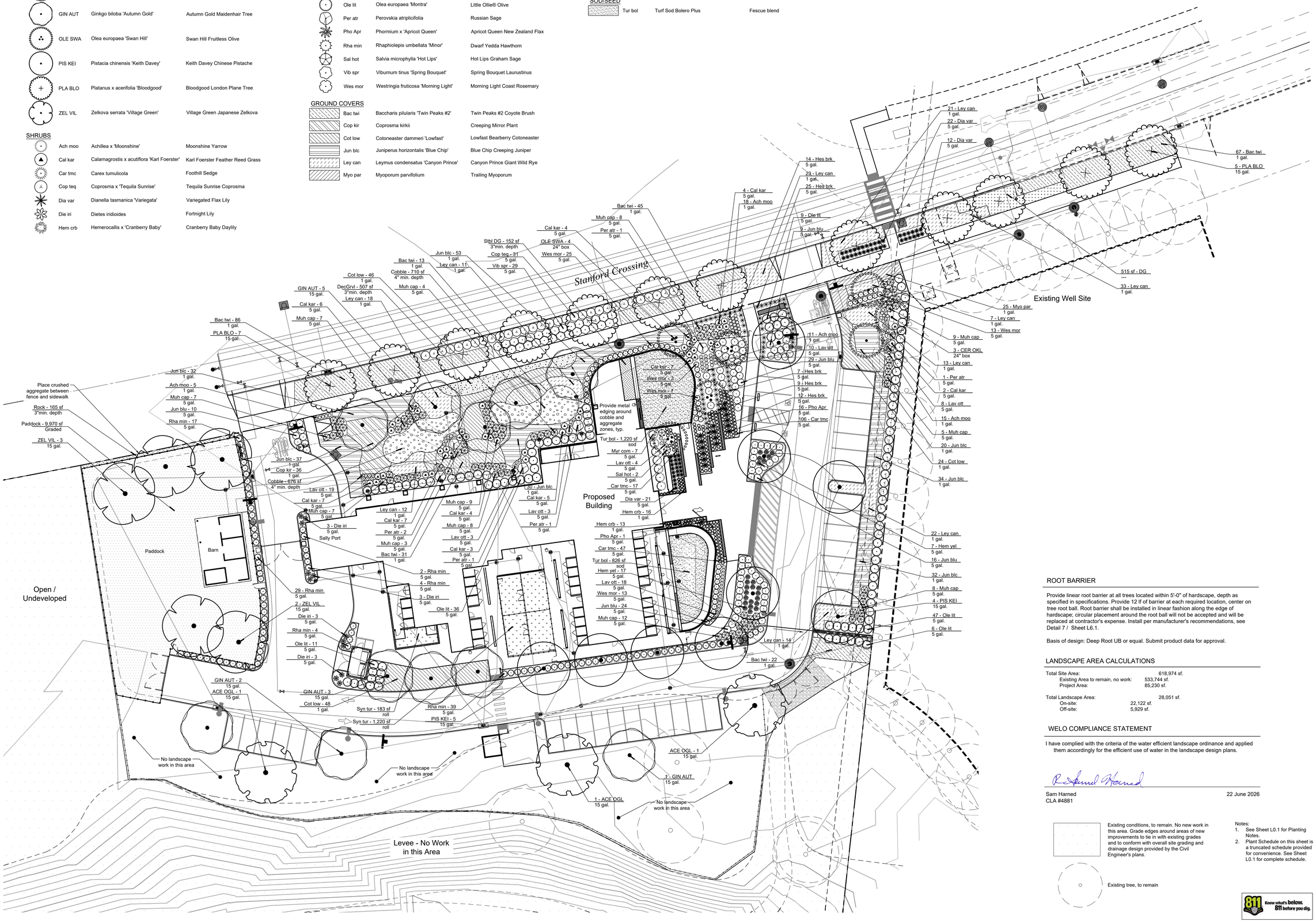
SYMBOL	CODE	BOTANICAL NAME	COMMON NAME
TREES			
	ACE OGL	Acer rubrum 'October Glory'	October Glory Red Maple
	CER OKL	Cercis canadensis texensis 'Oklahoma'	Oklahoma Texas Redbud
	GIN AUT	Ginkgo biloba 'Autumn Gold'	Autumn Gold Maidenhair Tree
	OLE SWA	Olea europaea 'Swan Hill'	Swan Hill Fruitless Olive
	PIS KEI	Pistacia chinensis 'Keith Davey'	Keith Davey Chinese Pistache
	PLA BLO	Platanus x acerifolia 'Bloodgood'	Bloodgood London Plane Tree
	ZEL VIL	Zelkova serrata 'Village Green'	Village Green Japanese Zelkova
SHRUBS			
	Ach moo	Achillea x 'Moonshine'	Moonshine Yarrow
	Cal kar	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass
	Car tmc	Carex tumulicola	Foothill Sedge
	Cop teq	Coprosma x 'Tequila Sunrise'	Tequila Sunrise Coprosma
	Dia var	Dianella tasmanica 'Variegata'	Variegated Flax Lily
	Die iri	Dietes iridioides	Fortnight Lily
	Hem crb	Hemerocallis x 'Cranberry Baby'	Cranberry Baby Daylily
	Hem yel	Hemerocallis x 'Evergreen Yellow'	Evergreen Yellow Daylily
	Hes brk	Hesperaloe parviflora 'Perpa'	Brakelights® Red Yucca
	Jun blu	Juniperus horizontalis 'Blue Chip'	Blue Chip Creeping Juniper
	Lav ott	Lavandula stoechas 'Otto Quast'	Otto Quast Spanish Lavender
	Muh cap	Muhlenbergia capillaris	Pink Muhly Grass
	Myr com	Myrtus communis	Common Myrtle
	Ole lit	Olea europaea 'Montra'	Little Ollie® Olive
	Per atr	Perovskia atriplicifolia	Russian Sage
	Pho Apr	Phormium x 'Apricot Queen'	Apricot Queen New Zealand Flax
	Rha min	Rhaphiolepis umbellata 'Minor'	Dwarf Yedda Hawthorn
	Sal hot	Salvia microphylla 'Hot Lips'	Hot Lips Graham Sage
	Vib spr	Viburnum tinus 'Spring Bouquet'	Spring Bouquet Laurustinus
	Wes mor	Westringia fruticosa 'Morning Light'	Morning Light Coast Rosemary
GROUND COVERS			
	Bac twi	Baccharis pilularis 'Twin Peaks #2'	Twin Peaks #2 Coyote Brush
	Cop kir	Coprosma kirkii	Creeping Mirror Plant
	Cot low	Cotoneaster dammeri 'Lowfast'	Lowfast Bearberry Cotoneaster
	Jun blc	Juniperus horizontalis 'Blue Chip'	Blue Chip Creeping Juniper
	Ley can	Leymus condensatus 'Canyon Prince'	Canyon Prince Giant Wild Rye
	Myo par	Myoporum parvifolium	Trailing Myoporum

INERT GROUNDCOVER

	Cobble	Cobble	2"-4" Noiya
	Rock	Crushed aggregate	1-1/2" minus
	DG	Decomposed granite, loose	3/8" minus
	DecGrvl	Decorative gravel	1-1/2" Sonoma Stone, with metal edging
	Paddock	Paddock	Bare earth, graded
	Stbl DG	Stabilized Decomposed Granite	3/8" minus, with stabilizer

SOD/SEED

	Tur bol	Turf Sod Bolero Plus	Fescue blend



ROOT BARRIER

Provide linear root barrier at all trees located within 5'-0" of hardscape, depth as specified in specifications. Provide 12 lf of barrier at each required location, center on tree root ball. Root barrier shall be installed in linear fashion along the edge of hardscape; circular placement around the root ball will not be accepted and will be replaced at contractor's expense. Install per manufacturer's recommendations, see Detail 7 / Sheet L6.1.

Basis of design: Deep Root UB or equal. Submit product data for approval.

LANDSCAPE AREA CALCULATIONS

Total Site Area:		618,974 sf.
Existing Area to remain, no work:		533,744 sf.
Project Area:		85,230 sf.
Total Landscape Area:		28,051 sf.
On-site:	22,122 sf.	
Off-site:	5,929 sf.	

WELO COMPLIANCE STATEMENT

I have complied with the criteria of the water efficient landscape ordinance and applied them accordingly for the efficient use of water in the landscape design plans.

Sam Harned
CLA #4881

22 June 2026

Existing conditions, to remain. No new work in this area. Grade edges around areas of new improvements to tie in with existing grades and to conform with overall site grading and drainage design provided by the Civil Engineer's plans.

Existing tree, to remain

Notes:
1. See Sheet L0.1 for Planting Notes.
2. Plant Schedule on this sheet is a truncated schedule provided for convenience. See Sheet L0.1 for complete schedule.

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

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EXPIRATION DATE 08/31/2027
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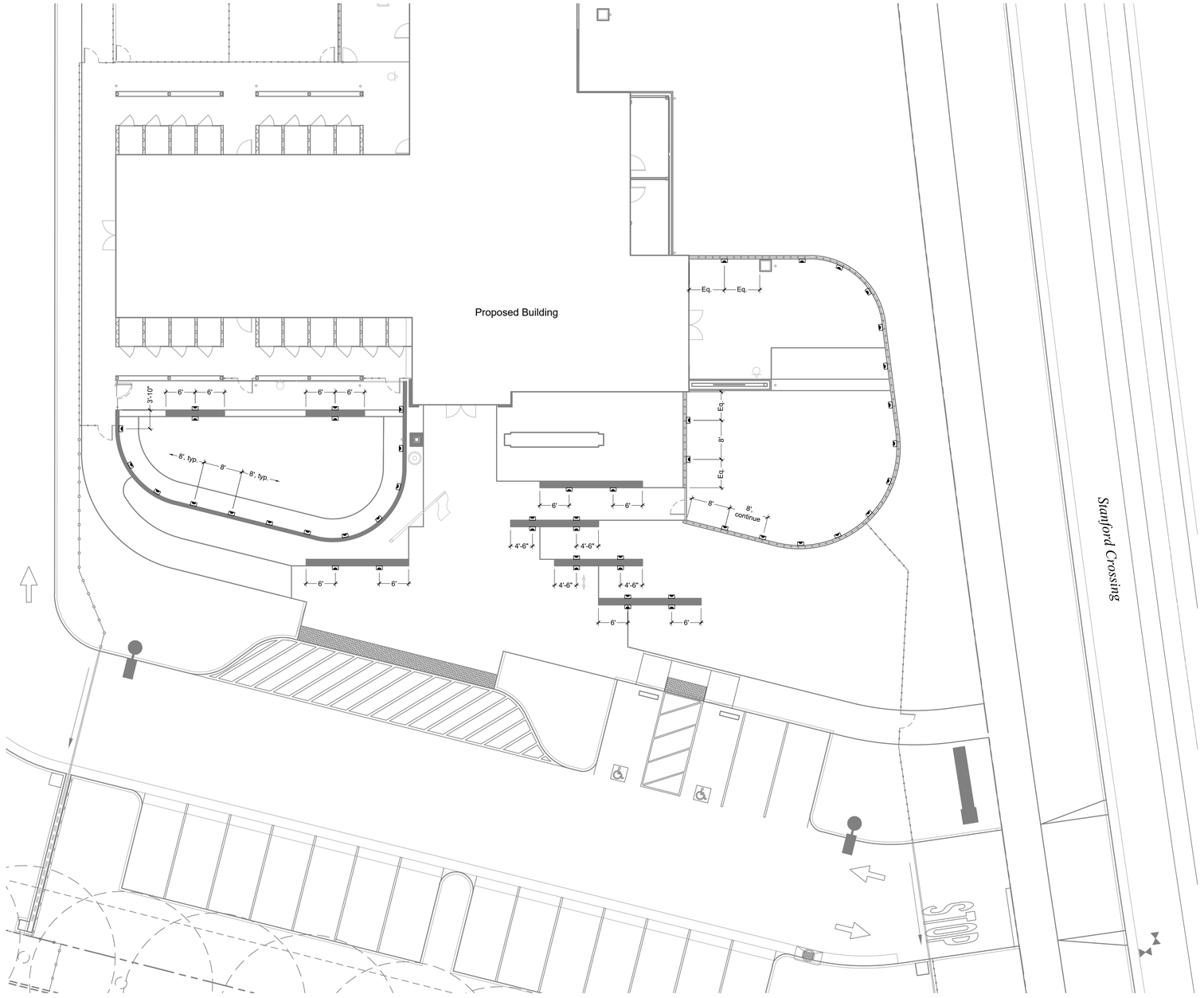
Checked By:	RSH

No.	Description	Date	By

BID SET
06/23/2026

PLANTING PLAN

L4.1



SITE LIGHTING SYMBOL LEGEND

Symbol	Item Description
	Install low voltage LED wall light. Install recessed into wall with face plate flush on face of veneer. FX Luminaire, model: A-HS-UV-L06-K30-PW-LS-SB. Submit product data for approval. See Details 2 & 11 / L2.1.

Existing conditions, to remain. No new work in this area. Grade edges around areas of new improvements to tie in with existing grades and to conform with overall site grading and drainage design provided by the Civil Engineer's plans.

Existing tree, to remain

NORTH

0' 5' 10' 20'
scale: 1" = 10'-0"

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

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LICENSED LANDSCAPE ARCHITECT
Richard Sam Harned
No. 6429
STATE OF CALIFORNIA

Client:
CITY OF LATHROP

390 TOWNE CENTRE DRIVE
LATHROP, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA
95330

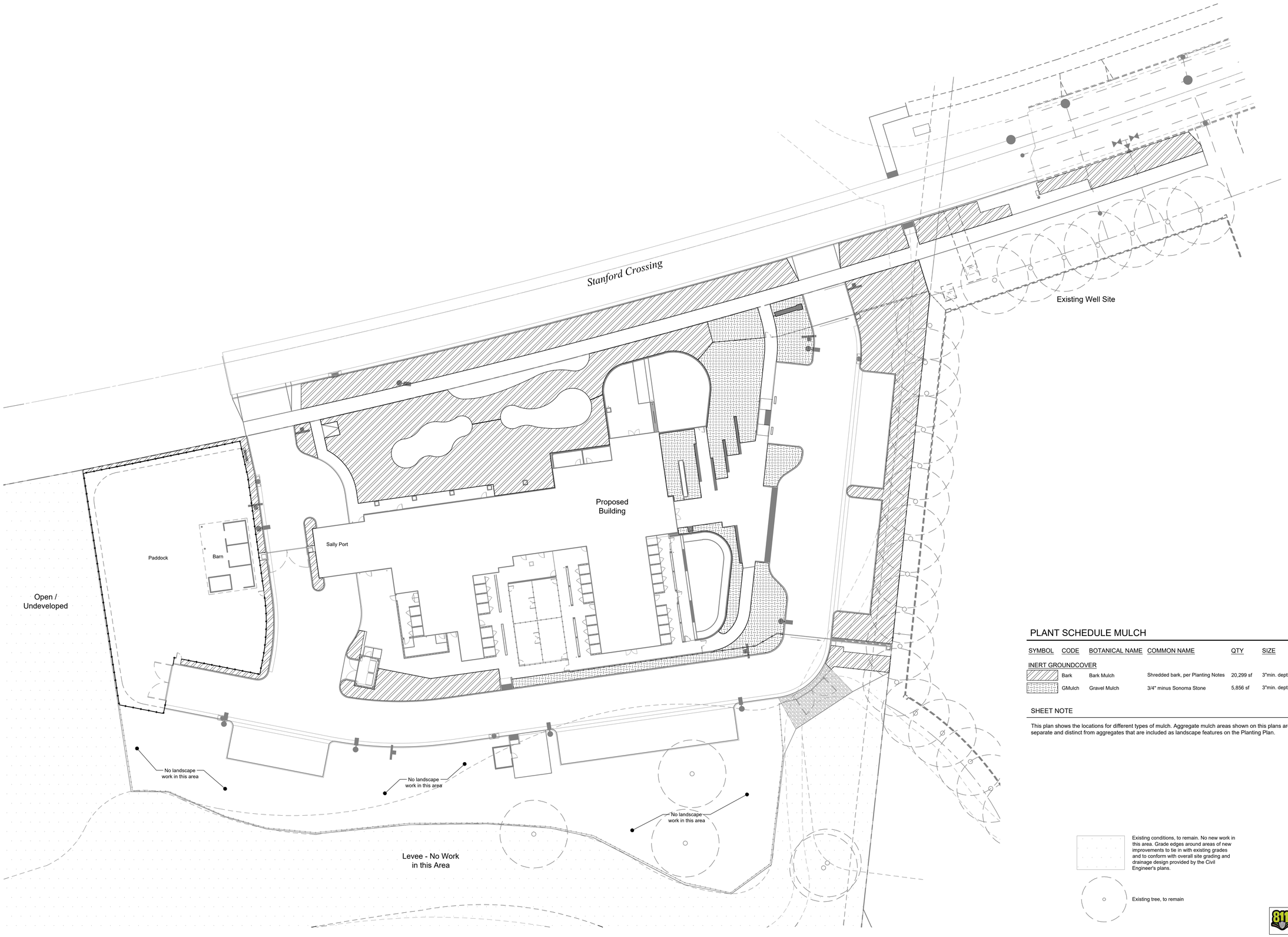
Project No.:	SHLA 25-57
Drawn By:	RSH
Checked By:	RSH

No.	Description	Date	By

BID SET
06/23/2026

LANDSCAPE LIGHTING PLAN

L4.2



PLANT SCHEDULE MULCH

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	QTY	SIZE
INERT GROUNDCOVER					
	Bark	Bark Mulch	Shredded bark, per Planting Notes	20,299 sf	3"min. depth
	GMulch	Gravel Mulch	3/4" minus Sonoma Stone	5,856 sf	3"min. depth

SHEET NOTE

This plan shows the locations for different types of mulch. Aggregate mulch areas shown on this plans are separate and distinct from aggregates that are included as landscape features on the Planting Plan.

Existing conditions, to remain. No new work in this area. Grade edges around areas of new improvements to tie in with existing grades and to conform with overall site grading and drainage design provided by the Civil Engineer's plans.

Existing tree, to remain

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

LDA
DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
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LICENSED LANDSCAPE ARCHITECT
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RENEWAL 08/31/2027
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Project:
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15005 STANFORD CROSSING
LATHROP, CA
95330

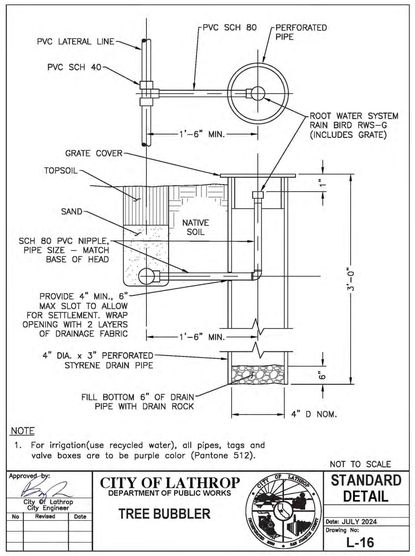
Project No.:	SHLA 25-57
Drawn By:	RSH
Checked By:	RSH

No.	Description	Date	By

BID SET
06/23/2026

MULCH PLAN

L4.3



NOTE
1. For irrigation(use recycled water), all pipes, tags and valve boxes are to be purple color (Pantone 512).

NOT TO SCALE

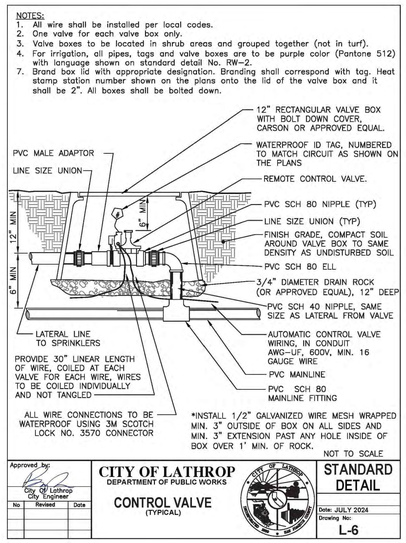
Approved-by: City Of Lathrop City Engineer

No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
TREE BUBBLER

STANDARD DETAIL
Date: JULY 2024
Drawing No: L-16

7 TREE BUBBLER
nts P-CI-LAT-10



NOT TO SCALE

Approved-by: City Of Lathrop City Engineer

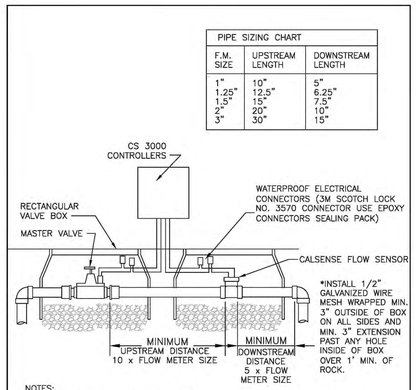
No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
CONTROL VALVE (TYPICAL)

STANDARD DETAIL
Date: JULY 2024
Drawing No: L-6

5 REMOTE CONTROL VALVE
nts P-CI-LAT-09

PIPE SIZING CHART		
F.M. SIZE	UPSTREAM LENGTH	DOWNSTREAM LENGTH
1"	10"	5"
1.25"	12.5"	6.25"
1.5"	15"	7.5"
2"	20"	10"
3"	30"	15"



NOTES:
1. See L-10 for controller installation.
2. For irrigation, all pipes, tags and valve boxes are to be purple color with language shown on standard detail No. RW-2.
3. Use 2-wire RCA option system interconnect cable.
4. Brand box lid with appropriate designation. Branding shall correspond with tag. All boxes shall be bolt down.

NOT TO SCALE

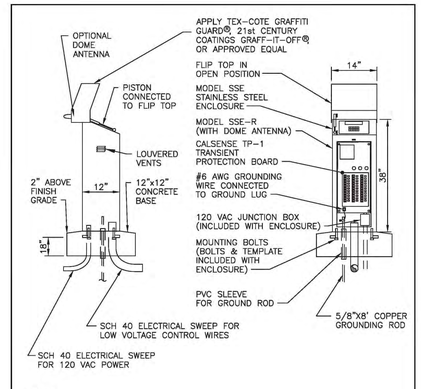
Approved-by: City Of Lathrop City Engineer

No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
MASTER VALVE AND FLOW SENSORS

STANDARD DETAIL
Date: JULY 2024
Drawing No: L-12

3 MASTER VALVE AND FLOW SENSOR
nts P-CI-LAT-07



NOTES:
1. Calsense Controller CS3000 panel mounted flush on face of enclosure at a 25° angle for easy access and viewing.
2. Provide GFI outlet with switch.
3. Shall be certified prior to acceptance.
4. Use 2-wire RCA interconnect cable system.
5. 95% Compaction for sub-grade.

NOT TO SCALE

Approved-by: City Of Lathrop City Engineer

No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
PEDESTAL CONTROLLER

STANDARD DETAIL
Date: JULY 2024
Drawing No: L-10

1 CONTROLLER
nts P-CI-LAT-05

NOTE
1. For recycled water irrigation, all pipes and spray heads are to be purple color. Signs shall be posted as shown in RW-2.
2. For shrubs, install a 12-inch min, pop-up spray head.
3. For turf, install a 8-inch min. gear rotor pop-up spray head.

NOT TO SCALE

Approved-by: City Of Lathrop City Engineer

No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
SHRUB POP-UP SPRAY HEAD

STANDARD DETAIL
Date: JULY 2024
Drawing No: L-23

8 POP-UP SPRINKLER
nts P-CI-LAT-13

*INSTALL 1/2" GALVANIZED WIRE MESH WRAPPED MIN. 3" OUTSIDE OF BOX ON ALL SIDES AND MIN. 3" EXTENSION PAST ANY HOLE IN SIDE OF BOX OVER 1" MIN. OF ROCK.

NOTES:
1. See L-6 for control valve installation notes.
2. For irrigation, all pipes, tags and valve boxes are to be purple color with language as shown on RW-2.
3. Brand box lid with appropriate designation. Branding shall correspond with tag. All boxes shall be bolt down.

NOT TO SCALE

Approved-by: City Of Lathrop City Engineer

No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
DRIP IRRIGATION CONTROL VALVE ASSEMBLY

STANDARD DETAIL
Date: JULY 2024
Drawing No: L-28

6 DRIP VALVE
nts P-CI-LAT-11

*INSTALL 1/2" GALVANIZED WIRE MESH WRAPPED MIN. 3" OUTSIDE OF BOX ON ALL SIDES AND MIN. 3" EXTENSION PAST ANY HOLE IN SIDE OF BOX OVER 1" MIN. OF ROCK.

NOTES:
1. For irrigation, all pipes, tags, valve boxes and lids are to be purple color and marked as shown on Standard Detail RW-2.
2. Brand box lid with appropriate designation. Branding shall correspond with tag. All boxes shall be bolt down.

NOT TO SCALE

Approved-by: City Of Lathrop City Engineer

No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
GATE VALVE

STANDARD DETAIL
Date: JULY 2024
Drawing No: L-7

4 GATE VALVE
nts P-CI-LAT-08

CS3000 CONTROLLER SPECIFICATIONS

POWER

INPUT REQUIREMENT: 120VAC SINGLE PHASE, 1AMP STATION
OUTPUTS: 24VAC, 2.0AMPS MAX (SHORT PROTECTED)

PHYSICAL

HEIGHT: 16.25"
WIDTH: 14.50"
DEPTH: 7.25"
MATERIAL: 16 GAUGE, STAINLESS STEEL

COMMUNICATION OPTIONS

CS3-GR 3.5G CELLULAR MODEM
CS3-EN 10 MBPS ETHERNET DEVICE
CS3-WEN 802.11B/G WIRELESS ETHERNET (WI-FI) DEVICE
CS3-SR SPREAD SPECTRUM RADIO
CS3-M-KIT WIRE-LINKABLE TO SHARE COMMUNICATION WITH MULTIPLE CONTROLLERS

OTHER OPTIONS

CS3-2W-OPT INTERFACE FOR 2-WIRE
CS3-FL FLOWSENSE™ SOFTWARE TO OPERATE MULTIPLE CONTROLLERS SHARING FLOW
CS3-W-KIT WEATHER INTERFACE FOR ET GAGE, TIPPING RAIN BUCKET, AND WIND GAGE
CS3-8ST-KIT 8-STATION CARD PLUS TERMINAL
CS3-L-KIT INTERFACE FOR FOUR LIGHT CIRCUITS

NOT TO SCALE

Approved-by: City Of Lathrop City Engineer

No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
CS3000 CONTROLLER SPECIFICATIONS

STANDARD DETAIL
Date: JULY 2024
Drawing No: L-11

2 CONTROLLER SPECS
nts P-CI-LAT-06

LDA DESIGNERS & ARCHITECTS

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Project:
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LATHROP, CA
95330

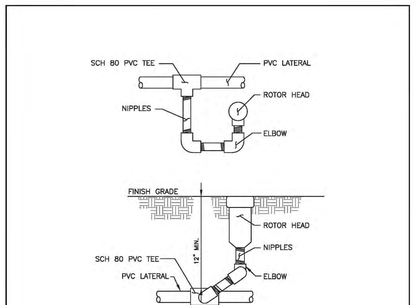
Project No.: SHLA 25-57
Drawn By: RSH
Checked By: RSH

No.	Description	Date	By

BID SET
06/23/2026

IRRIGATION DETAILS

L5.1



TRIPLE SWING JOINT WITH ROTOR

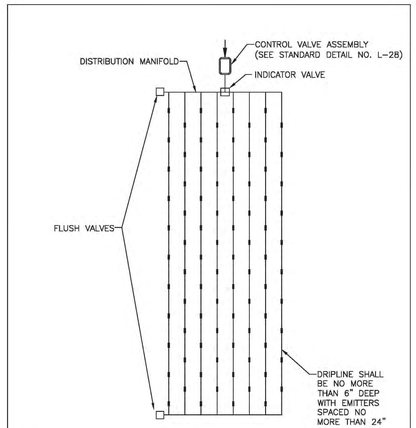
NOTE:
1. All Nipples and Joints to be Schedule 80 PVC.
2. Use Pre-manufactured swing joints, SCH 80 PVC or approved equal.
3. Hunter I Series Sprinklers or approved equal.

NOT TO SCALE

Approved-by: City Of Lathrop City Engineer	CITY OF LATHROP DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL
No / Revised / Date	ROTOR SPRINKLERS	Date: JULY 2024
		Drawing No: L-15

12 ROTOR

nts P-CI-LAT-18



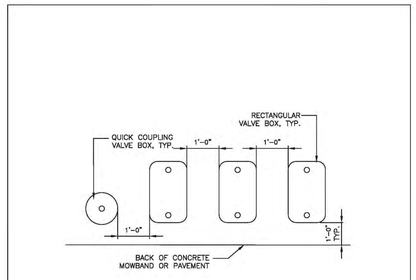
NOTES:
1. Subsurface dripfield layout to be used in special case only with city engineer approval

NOT TO SCALE

Approved-by: City Of Lathrop City Engineer	CITY OF LATHROP DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL
No / Revised / Date	TYPICAL SUBSURFACE DRIPFIELD LAYOUT	Date: JULY 2024
		Drawing No: L-27

5 DRIPLINE

nts P-CI-LAT-17



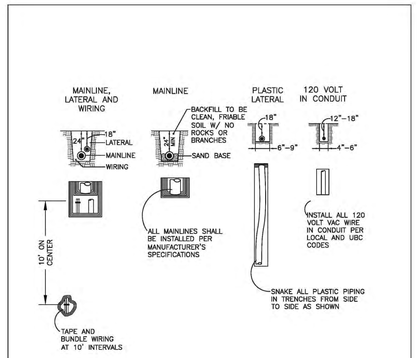
Notes:
1. Center valve box over remote control valve to facilitate servicing valve.
2. Set RCV and valve box assembly in groundcover/shrub areas.
3. Set boxes parallel to each other and perpendicular to edge of adjacent paving.
4. Avoid heavily compacting soil around valve boxes to prevent collapse and deformation of valve boxes.
5. Brand box lid with appropriate designation. Branding shall correspond with tag. All boxes shall be bolt down.

NOT TO SCALE

Approved-by: City Of Lathrop City Engineer	CITY OF LATHROP DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL
No / Revised / Date	VALVE BOX LAYOUT	Date: JULY 2024
		Drawing No: L-17

3 VALVE BOX LAYOUT

nts P-CI-LAT-15

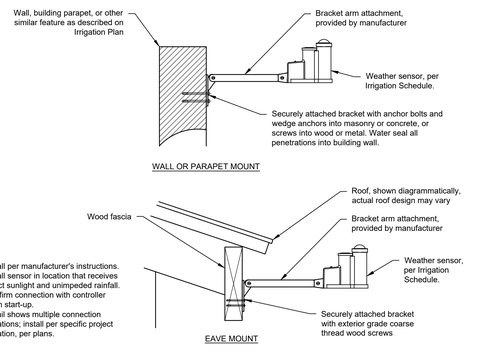


NOT TO SCALE

Approved-by: City Of Lathrop City Engineer	CITY OF LATHROP DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL
No / Revised / Date	IRRIGATION PIPING AND WIRING	Date: JULY 2024
		Drawing No: L-18

1 PIPING AND WIRING

nts P-CI-LAT-12



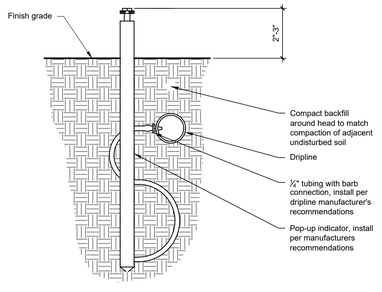
WALL OR PARAPET MOUNT

NOTES:
1. Install per manufacturer's instructions.
2. Install sensor in location that receives direct sunlight and unimpeded rainfall.
3. Confirm connection with controller upon start-up.
4. Detail shows multiple connection situations; install per specific project situation, per plans.

EAVE MOUNT

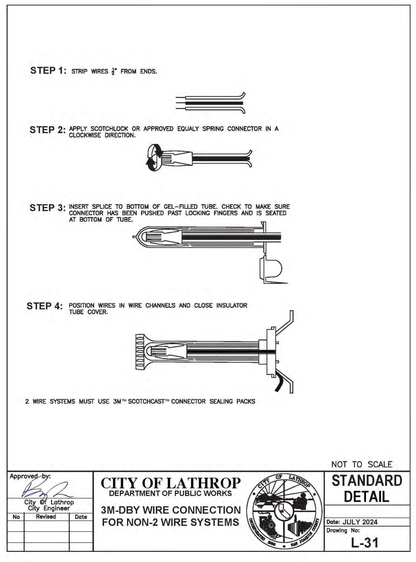
11 WEATHER SENSOR - WALL OR ROOF MOUNT

NTS 328401.02-05



6 DRIPLINE - POP UP OPERATION INDICATOR

NTS 328401.01-28

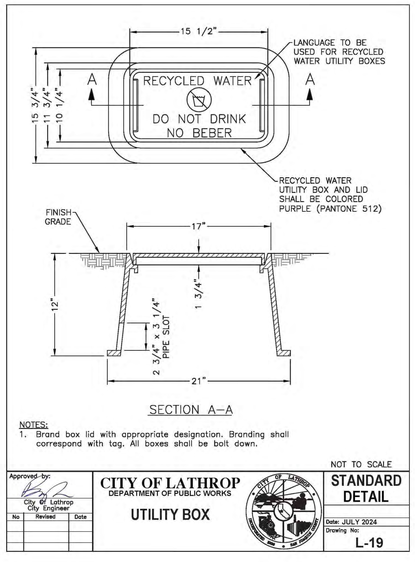


NOT TO SCALE

Approved-by: City Of Lathrop City Engineer	CITY OF LATHROP DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL
No / Revised / Date	3M-DBY WIRE CONNECTION FOR NON-2 WIRE SYSTEMS	Date: JULY 2024
		Drawing No: L-31

4 WIRE CONNECTOR

nts P-CI-LAT-16



SECTION A–A

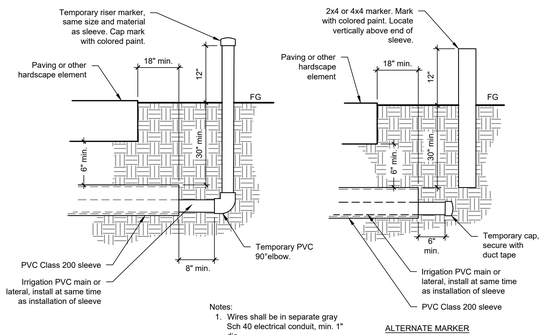
NOTES:
1. Brand box lid with appropriate designation. Branding shall correspond with tag. All boxes shall be bolt down.

NOT TO SCALE

Approved-by: City Of Lathrop City Engineer	CITY OF LATHROP DEPARTMENT OF PUBLIC WORKS	STANDARD DETAIL
No / Revised / Date	UTILITY BOX	Date: JULY 2024
		Drawing No: L-19

2 VALVE BOX

nts P-CI-LAT-14

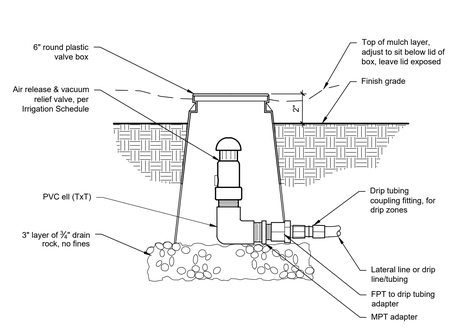


Notes:
1. Wires shall be in separate gray Sch 40 electrical conduit, min. 1" dia.
2. Install sleeves side by side in the same trench.

ALTERNATE MARKER

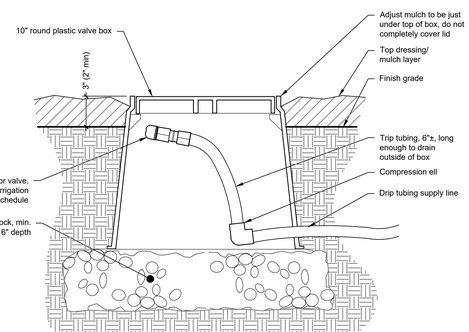
10 IRRIGATION SLEEVE

NTS 328401.04-26



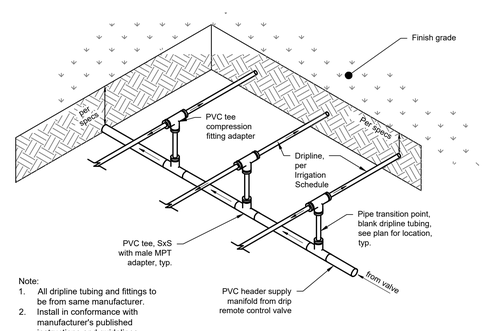
9 DRIP AIR RELEASE / VACUUM RELIEF VALVE

NTS 328401.01-25



8 DRIP FLUSH VALVE

NTS 328401.01-24



Note:
1. All dripline tubing and fittings to be from same manufacturer.
2. Install in conformance with manufacturer's published instructions and guidelines.

7 DRIPLINE - CENTER FEED MANIFOLD

NTS 328401.06-22

LDA DESIGNERS & ARCHITECTS

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LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA
95330

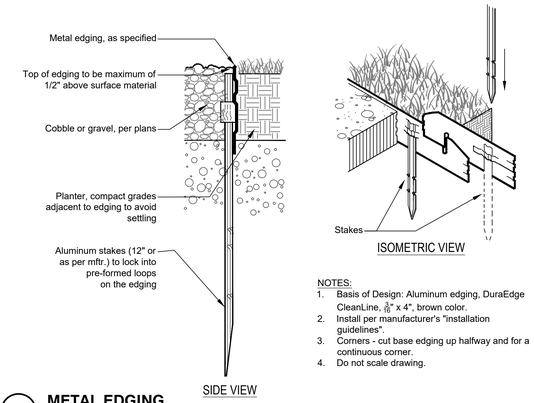
Project No.: SHLA 25-57
Drawn By: RSH
Checked By: RSH

No.	Description	Date	By

BID SET
06/23/2026

IRRIGATION DETAILS

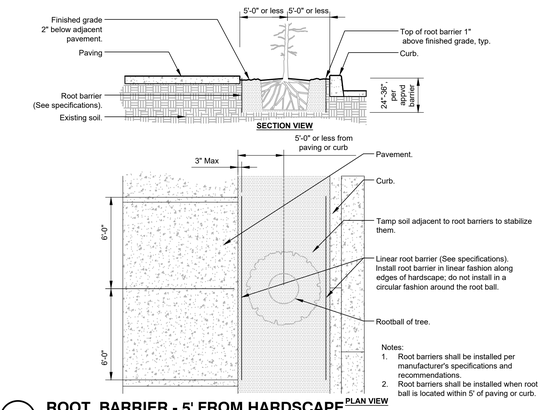
L5.2



NOTES:
1. Basis of Design: Aluminum edging, DuraEdge CleanLine, $\frac{3}{16}$" x 4", brown color.
2. Install per manufacturer's "installation guidelines".
3. Corners - cut base edging up halfway and for a continuous corner.
4. Do not scale drawing.

11 METAL EDGING

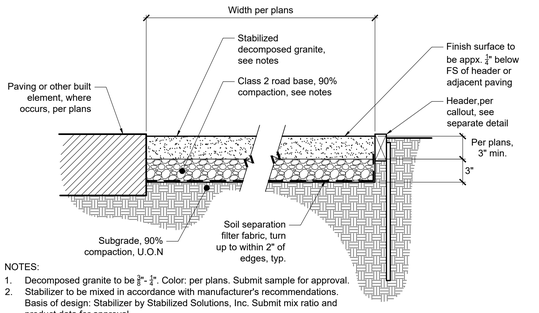
3/4" = 1'-0" 329301-04



Notes:
1. Root barriers shall be installed per manufacturer's specifications and recommendations.
2. Root barriers shall be installed when root ball is located within 5' of paving or curb.

7 ROOT BARRIER - 5' FROM HARDSCAPE

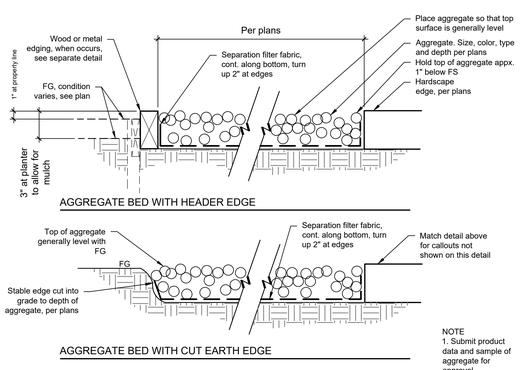
3/8" = 1'-0" 329301-09



NOTES:
1. Decomposed granite to be $\frac{3}{8}$"- $\frac{1}{2}$". Color: per plans. Submit sample for approval.
2. Stabilizer to be mixed in accordance with manufacturer's recommendations. Basis of design: Stabilizer by Stabilized Solutions, Inc. Submit mix ratio and product data for approval.
3. Compaction rates provided are per ASTM D1557. Conform to compaction specified in soils report, if one is prepared for this project.

8 STABILIZED DECOMPOSED GRANITE (DG) PAVING

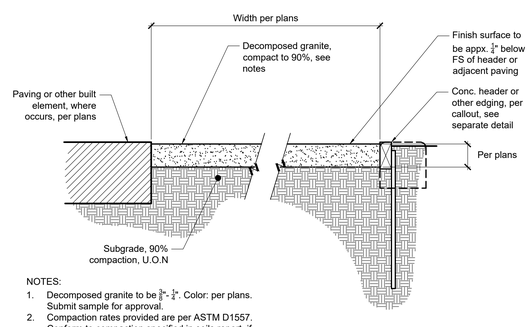
1 1/2" = 1'-0" 321516-05



NOTE
1. Submit product data and sample of aggregate for approval.

9 AGGREGATE BED

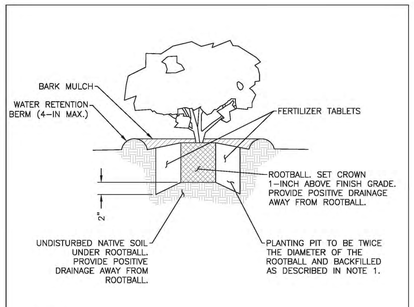
NTS 329301-01



NOTES:
1. Decomposed granite to be $\frac{3}{8}$"- $\frac{1}{2}$". Color: per plans. Submit sample for approval.
2. Compaction rates provided are per ASTM D1557. Conform to compaction specified in soils report, if one is prepared for this project.

10 DECOMPOSED GRANITE (DG) PAVING

1 1/2" = 1'-0" 321516-04



NOTE
1. Organic backfill amendment to be nitrogen stabilized fir or redwood bark. Install backfill in 6-inch lifts, water to settle.

1 GAL.	2 TABLETS
2 OR 5 GAL.	3 TABLETS
15 GAL.	6 TABLETS
24-IN. BOX OR LARGER	10 TABLETS

FERTILIZER

NOT TO SCALE

Approved-by: City of Lathrop City Engineer

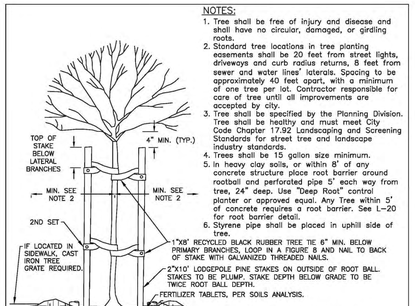
No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
SHRUB PLANTING

STANDARD DETAIL
Date: JULY 2024
Drawing No: L-29

3 SHRUB PLANTING

nts P-CI-LAT-03



NOT TO SCALE

Approved-by: City of Lathrop City Engineer

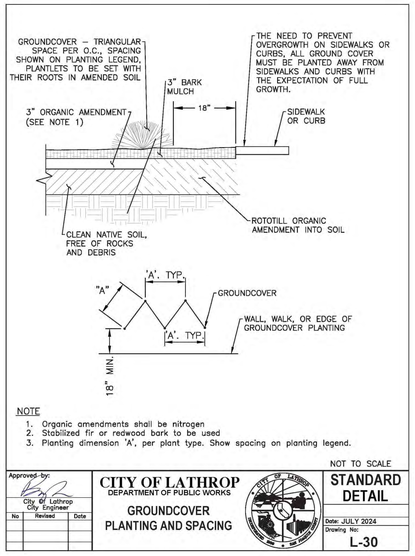
No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
TREE PLANTING

STANDARD DETAIL
Date: JULY 2024
Drawing No: L-24

1 TREE PLANTING

nts P-CI-LAT-01



NOTE
1. Organic amendments shall be nitrogen
2. Stabilized fir or redwood bark to be used
3. Planting dimension 'A', per plant type. Show spacing on planting legend.

NOT TO SCALE

Approved-by: City of Lathrop City Engineer

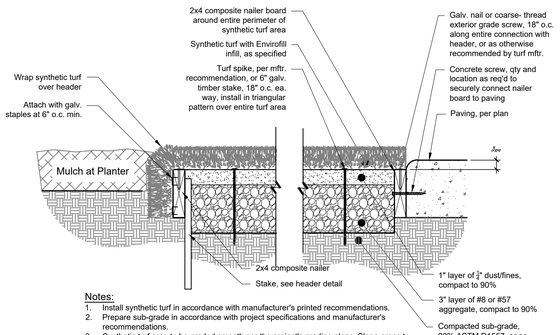
No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
GROUNDCOVER PLANTING AND SPACING

STANDARD DETAIL
Date: JULY 2024
Drawing No: L-30

4 GROUND COVER PLANTING

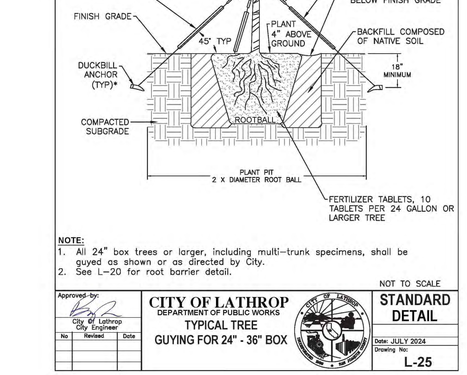
nts P-CI-LAT-04



Notes:
1. Install synthetic turf in accordance with manufacturer's printed recommendations.
2. Prepare sub-grade in accordance with project specifications and manufacturer's recommendations.
3. Synthetic turf area to be graded smooth per the project's grading plans. Slope areas to direct storm water to area drains, per drainage and grading plans.
4. Install turf spike, size per detail above, along seams 4' o.c. in an offset pattern on each side of seam.

6 SYNTHETIC TURF

NTS 329301-03



NOTE:
1. All 24" box trees or larger, including multi-trunk specimens, shall be guyed as shown or as directed by City.
2. See L-20 for root barrier detail.

NOT TO SCALE

Approved-by: City of Lathrop City Engineer

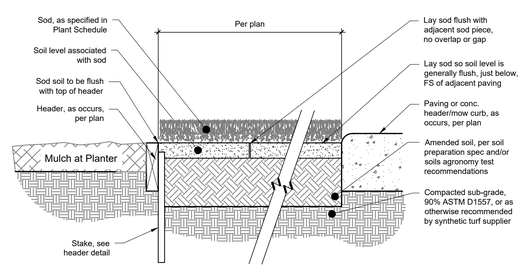
No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
TYPICAL TREE GUYING FOR 24" - 36" BOX

STANDARD DETAIL
Date: JULY 2024
Drawing No: L-25

2 TREE PLANTING - 24"-36" BOX

nts P-CI-LAT-02



5 SOD

NTS 329301-18

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

Sam Harned Landscape Architect
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Oakdale, CA 95361
209-480-7376
www.harnedla.com

Client:
CITY OF LATHROP
390 TOWNE CENTRE DRIVE
LATHROP, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA
95330

Project No.: SHLA 25-57
Drawn By: RSH
Checked By: RSH

No.	Description	Date	By

BID SET
06/23/2026

PLANTING DETAILS

L6.1

LANDSCAPE WELO ORDINANCE

This project has been designed to comply with the criteria of the Water Efficient Landscape Ordinance - California Code of Regulations Title 23, Division 2, Chapter 2.7 § 490 - 494 ("WELO" or the "Ordinance") as adopted by the jurisdictional agency ("Agency") for this project. The following information provides data required by the Ordinance and specifically fulfills the requirements of the Landscape Documentation Package as outlined in § 492.3 of the Ordinance. Upon completion of the Project, Contractor shall be responsible for certifying compliance with the Ordinance and Agency requirements. Prior to start of Work, Contractor shall review this information and the Ordinance to establish a full understanding of the measures necessary to meet requirements of the Ordinance. Contractor shall notify the Owner of anything the Contractor feels does not meet the requirements of the Ordinance or Agency requirements. Landscape work shall not commence until such concerns are corrected to the satisfaction of all parties.

SOILS MANAGEMENT REPORT
This project will require significant earthwork and/or construction activity. The type of soil in the proposed landscape areas cannot be sufficiently assessed until the earthwork and construction is substantially completed. Per §492.5 paragraph (a) (2) (B) of the State Ordinance, Contractor shall, upon completion of the earthwork operations, acquire soil samples representative of all landscape areas and have the samples analyzed by an approved laboratory in accordance with §492.5 paragraph (a) (1) of the State Ordinance. Contractor shall submit the approved soil laboratory's recommendations for amending the soil as appropriate for the proposed planting in a timely manner to allow for modifications to the design plans and specifications as may be required. Contractor shall amend soil in accordance with the laboratory recommendations unless otherwise directed.

LANDSCAPE DESIGN PLAN
See Planting Plan of this set of drawings.

IRRIGATION DESIGN PLAN
See Irrigation Plan of this set of drawings.

GRADING DESIGN PLAN
See Site Grading and Drainage Plan of this set of drawings. See also grading design plans prepared by the Civil Engineer for this project.

CERTIFICATE OF COMPLETION
Contractor shall be responsible of preparing and submitting the Certificate of Completion required by the Water Efficient Landscape Ordinance - California Code of Regulations Title 23, Division 2, Chapter 2.7 § 490 - 494. Refer to the Landscape Documentation Package and the information below to provide guidance on preparing the certificate. The certificate shall be prepared and submitted upon Substantial Completion. Approval of the certificate and verification by the City that the landscape and irrigation has been installed in accordance with the approved landscape and irrigation plans and the Landscape Documentation Package is required prior to Final Acceptance of the project.

PROJECT INFORMATION SHEET
Contractor shall complete Project information sheet found in the "Certificate of Completion" per Appendix C of the Ordinance.

CERTIFICATION OF INSTALLATION
Contractor shall prepare the "Certification of Installation According to the Landscape Documentation Package" per Appendix C of the Ordinance.

IRRIGATION SCHEDULE
See the irrigation schedules provided on this page as a guide. Contractor shall prepare an irrigation schedule meeting the requirements of §492.10 of the Ordinance. Contractor shall use the irrigation schedule provided with these drawings for the initial settings and after observing operation of the system Contractor shall make all adjustments necessary to finalize recommended schedules for the plant establishment period (first 12 months) and the post-establishment period providing values appropriate to each of the 4 seasons--winter, spring, summer, and fall.

MAINTENANCE SCHEDULE
Contractor shall prepare a schedule of landscape and irrigation maintenance meeting the requirements of §492.11 of the Ordinance.

IRRIGATION AUDIT REPORT
Contractor shall retain the services of an independent, third-party, certified landscape irrigation auditor to conduct an irrigation audit, an irrigation survey, and an irrigation water use analysis in accordance with the requirements of §492.12 of the Ordinance. Contractor shall prepare an Irrigation Audit Report of the results of the audit. Should the audit identify conditions that are not in compliance with the Ordinance. Contractor shall make corrections at no additional cost.

SOIL MANAGEMENT REPORT
Per §492.5 of the Ordinance, Contractor shall submit the soil analysis report on which the soil amendments were based together with acceptable documentation that the soil was amended per the recommendations in the report.

LANDSCAPE ARCHITECT'S STATEMENT

I have complied with the criteria of the ordinance and applied them accordingly for the efficient use of water in the irrigation design plan and the landscape design plan.

MAINTENANCE SCHEDULE

A regular maintenance schedule shall be set up for this project to provide healthy plants and an efficient, functional irrigation system. The following practices shall be incorporated into a regular maintenance schedule:

1. Maintain irrigation system. Adjust or replace delivery system components to keep them working to meet manufacturer specifications. Repair leaks in a timely manner. Replacement products and materials shall match originally specifications, or equal..

2. Review drip emitters and adjust locations as plants mature. Replace emitters as needed to adjust water delivery to each plant, as needed.

3. Adjust controller as required to provide proper amount of water to each zone.

4. Mow turf on a regular basis. De-thatch and aerate annually.

5. Prune plantings to maintain design form (e.g.- natural, hedge) and to remove broken or dead branches. Remove suckers from tree roots on a regular basis.

6. Establish a regular program of weed and pest control. Conform to any local regulations regarding use of pesticides and herbicides. Pesticides and herbicides are to be applied only when needed and by a state licensed professional.

7. Re-apply mulches as needed to maintain full coverage at planting areas, retain soil moisture, and inhibit weed growth.

WATER EFFICIENT LANDSCAPE ORDINANCE WORKSHEET

	Reference Evapotranspiration			50.9 in/yr	**ETAF$_{(req)}$**	Maximum Allowed ETAF	0.45

APPENDIX B WORKSHEET

Hydro-zone (see desc. below)	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU)
Regular Landscape Areas ("RLA") - See Hydrozone Descriptions for Referenced Numbers							
	1.00	Spray	0.75	1.33	0 sf	0.00	0 gals
2	0.80	Spray	0.75	1.07	2,046 sf	2,182.40	68,872 gals
	0.60	Spray	0.75	0.80	0 sf	0.00	0 gals
4	0.40	Drip	0.81	0.49	5,131 sf	2,533.83	79,963 gals
7	0.25	Drip	0.81	0.31	18,524 sf	5,717.28	180,426 gals
	0.50	Spray	0.75	0.67	0 sf	0.00	0 gals
12	0.40	Drip	0.81	0.49	2,350 sf	1,160.49	36,623 gals
				Sub-totals	28,051.00	11,594.00	365,884 gals
Special Landscape Areas ("SLA") - See Hydrozone Planting Descriptions for Referenced Numbers							
SLA1				1.00	0 sf	0.00	0 gals
SLA2				1.00	0 sf	0.00	0 gals
				Sub-totals	0 sf	0.00	0 gals
	Total Landscape Area (regular and special)				28,051 sf	11,594.00	
						ETWU Total	365,884 gals
						Maximum Allowed Water Allowance (MAWA)	398,355 gals

MAWA CALCULATION

MAXIMUM ALLOWABLE WATER CALCULATION ("MAWA")

	Ref. ETo	Conv.	ET Adjustment Factor "ETAF"	Area Incl. "SLA" (sf)	SLA Addn'l Water	Special Landscape Area (sf)
MAWA =	(ETo)	(0.62)	[(ETAF x LA) +	((1-ETAF) x SLA)]		
398,355 gal/yr	50.9 in/yr	0.62	0.45	28,051 sf	0.55	0 sf

Data used in MAWA Formula (per 2015 WELO):

Ref. Evapotranspiration (in/yr) ETo=	50.9 in/yr		Landscape Area including SLA	28,051 sf	
Conversion Factor (to gallons)	0.62		Additional Water Allowance for SLA (1-ETAF)	0.55	
Required ETAF per Ordinance for Project	0.45		Special Landscape Area ("SLA" in SF)	0 sf	

ETWU CALCULATION

ESTIMATED TOTAL WATER USE (ETWU) TOTAL SITE W/ SLA FACTORED IN

ETWU =	(ETo)	(0.62)	(ETAF)	(Area)	
365,884 gal/yr	50.9 in/yr	0.62	0.41	28,051 sf	

ETAF CALCULATIONS

Regular Landscape Area (RLA) ETAF		Max Allowed ETAF			
Total ETAF x RLA	11594.00				
Divided by Total RLA	28,051 sf		If Average ETAF is less than Max. Allowed ETAF the Project complies with WELO		
Average ETAF (RLA)	0.41	0.45			
Sitewide ETAF					
Total ETAF x Area (RLA and SLA)	11594.00				
Divided by Total Area (RLA and SLA)	28,051 sf				
Sitewide ETAF (RLA and SLA)	0.41				

HYDROZONE DESCRIPTIONS

Hydrozone number	*Description*	*Irrigation zones on plan*
1	High water use turf with gear rotor irrigation	
2	High water use turf with rotary spray irrigation	1-2
3	High water use plantings with drip irrigation	
4	Moderate water use plantings with subsurface irrigation	3-6
5	Moderate water use plantings with rotary spray irrigation	
6	Moderate water use plantings with drip irrigation	
7	Low water use plantings with subsurface irrigation	7-19 ; 25-28
8	Low water use plantings with rotary spray irrigation	
9	Low water use plantings with drip irrigation	
10	Bio-filtration basin	
11	No irrigation / inert landscape area	
12	Trees with root watering system	20-24 ; 29
SLA 1		
SLA 2		

PRELIMINARY IRRIGATION SCHEDULES

The schedules below are based on calculating runtime and frequency of irrigation cycles to meet the average evapotranspiration of noted seasons factoring in the rate of water delivery, plant factors, and other variables. Actual runtimes and frequency of cycles required to sustain the landscape at the desired aesthetic appearance may differ and must be adjusted to due to field observations of microclimates, slope conditions, solar exposure, and other variables. Contractor shall observe the health of the plantings during the establishment period and make adjustments necessary from observed conditions and plant health.

After the establishment period it is incumbent upon the Owners and Owner's maintenance entity to observe plant health and desired aesthetic appearance and make adjustments to the irrigation schedules as may be required to satisfy their desired aesthetic appearance as well as limit water use to less than the MAWA.

PRELIMINARY IRRIGATION SCHEDULE - PLANT ESTABLISHMENT PERIOD

			Winter (Nov, Dec, Jan, Feb)		Spring (Mar, Apr, May)		Summer (Jun, Jul, Aug, Sep)		Autumn (Oct.)	
Hydro-zone	*Description*	*Zone*	*Runtime*	*Cycles per Month*	*Runtime*	*Cycles per Month*	*Runtime*	*Cycles per Month*	*Runtime*	*Cycles per Month*
1	High water use turf with gear rotor irrigation		16 min.	10	33 min.	15	17 min.	60 (2/day)	30 min.	20
2	High water use turf with rotary spray irrigation	1-2	20 min.	15	25 min.	30	45 min.	30	40 min.	15
3	High water use plantings with drip irrigation		20 min.	8	45 min.	15	60 min.	30	45 min.	15
4	Moderate water use plantings with subsurface irrigation	3-6	30 min.	5	30 min.	15	45 min.	15	30 min.	15
5	Moderate water use plantings with rotary spray irrigation		10 min.	4	15 min.	15	20 min.	15	15 min.	15
6	Moderate water use plantings with drip irrigation		20 min.	4	35 min.	15	40 min.	30	35 min.	15
7	Low water use plantings with subsurface irrigation	7-19 ; 25-28	15 min.	4	20 min	15	30 min.	10	20 min	15
8	Low water use plantings with rotary spray irrigation		15 min.	2	10 min.	15	15 min.	15	10 min.	15
9	Low water use plantings with drip irrigation		10 min.	4	30 min.	15	25 min.	30	30 min.	15
10	Bio-filtration basin		20 min.	5	45 min.	15	65 min.	15	40 min.	15
11	No irrigation / inert landscape area		0 min.	0	0 min.	0	0 min.	0	0 min.	0
12	Trees with root watering system	20-24 ; 29	0 min.	0	30 min.	5	45	5	30 min.	5
SLA 1										
SLA 2										

PRELIMINARY IRRIGATION SCHEDULE - ESTABLISHED PLANTING

			Winter (Nov, Dec, Jan, Feb)		Spring (Mar, Apr, May)		Summer (Jun, Jul, Aug, Sep)		Autumn (Oct.)	
Hydro-zone	*Description*	*Zone*	*Runtime*	*Cycles per Month*	*Runtime*	*Cycles per Month*	*Runtime*	*Cycles per Month*	*Runtime*	*Cycles per Month*
1	High water use turf with gear rotor irrigation		12 min.	10	25 min.	15	40 min.	15	30 min.	15
2	High water use turf with rotary spray irrigation	1-2	20 min.	10	45 min.	15	60 min.	15	45 min.	15
3	High water use plantings with drip irrigation		10 min.	4	45 min.	15	60 min.	10	45 min.	15
4	Moderate water use plantings with subsurface irrigation	3-6	10 min.	4	25 min.	15	30 min.	30	25 min.	15
5	Moderate water use plantings with rotary spray irrigation		10 min.	4	15 min.	10	15 min.	18	15 min.	10
6	Moderate water use plantings with drip irrigation		10 min.	4	45 min.	10	35 min.	15	40 min.	10
7	Low water use plantings with subsurface irrigation	7-19 ; 25-28	10 min.	4	20 min	15	30 min.	10	20 min	15
8	Low water use plantings with rotary spray irrigation		10 min.	4	10 min.	15	15 min.	15	10 min.	15
9	Low water use plantings with drip irrigation		10 min.	4	30 min.	10	25 min.	15	30 min.	10
10	Bio-filtration basin		10 min.	4	45 min.	10	65 min.	10	45 min.	10
11	No irrigation / inert landscape area		0 min.	0	0 min.	0	0 min.	0	0 min.	0
12	Trees with root watering system	20-24 ; 29	10 min.	1	30 min.	5	30 min.	8	30 min.	6
SLA 1										
SLA 2										

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	Rain Bird PESB-R	1"	Turf Rotary	7.09	33.6	34.9	0.55 in/h
2	Rain Bird PESB-R	1"	Turf Rotary	5.34	32.2	33.3	0.6 in/h
3	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	8.07	26.5	28.2	0.85 in/h
4	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	6.76	25.6	26.9	0.85 in/h
5	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	13.86	32.9	36.4	0.85 in/h
6	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	7.63	26.0	27.3	0.85 in/h
7	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	9.2	26.4	28.7	0.85 in/h
8	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	12.29	31.1	35.0	0.85 in/h
9	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	11.33	30.8	33.5	0.85 in/h
10	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	3.64	22.4	23.3	0.85 in/h
11	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	7.94	26.8	28.0	0.85 in/h
12	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	3.27	22.1	22.7	0.84 in/h
13	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	8.4	26.2	27.2	0.85 in/h
14	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	8.68	26.8	27.9	0.85 in/h
15	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	10.01	27.3	28.6	0.85 in/h
16	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	10.36	29.3	30.8	0.85 in/h
17	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	5.67	24.2	25.0	0.85 in/h
18	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	11.55	29.9	31.9	0.85 in/h
19	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	5.92	23.4	24.5	0.85 in/h
20	Rain Bird PESB-R	1"	Bubbler	2.5	21.8	22.5	0.85 in/h
21	Rain Bird PESB-R	1"	Bubbler	4	22.3	23.2	0.85 in/h
22	Rain Bird PESB-R	1"	Bubbler	3	22.0	22.7	0.85 in/h
23	Rain Bird PESB-R	1"	Bubbler	2.5	21.7	22.3	0.85 in/h
24	Rain Bird PESB-R	1"	Bubbler	5.5	22.8	23.6	0.85 in/h
25	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	14.09	33.2	35.2	0.85 in/h
26	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	14.07	33.2	36.0	0.85 in/h
27	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	7.79	25.4	27.0	0.85 in/h
28	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	7.13	24.6	26.3	0.85 in/h
29	Rain Bird PESB-R	1"	Bubbler	6	23.4	24.3	0.92 in/h
30	Rain Bird PESB-R	1"	Turf Rotor	25.2	38.7	44.5	0.8 in/h
31	Rain Bird PESB-R	1"	Turf Rotor	29.7	39.3	47.7	0.94 in/h
Unknown	Cap for future use		Cap (as indicated for future use)				Unknown
Unknown	Cap for future use		Cap (as indicated for future use)				Unknown

LDA DESIGNERS & ARCHITECTS

Architect:
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Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

Sam Harned Landscape Architect
PO Box 2275
Oakdale, CA 95361
209.580.7376
www.harnedla.com

LICENSED LANDSCAPE ARCHITECT — Richard Sam Harned — No. 5616 — 10/31/26 — STATE OF CALIFORNIA

Client:
CITY OF LATHROP

390 TOWNE CENTRE DRIVE
LATHROP, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA
95330

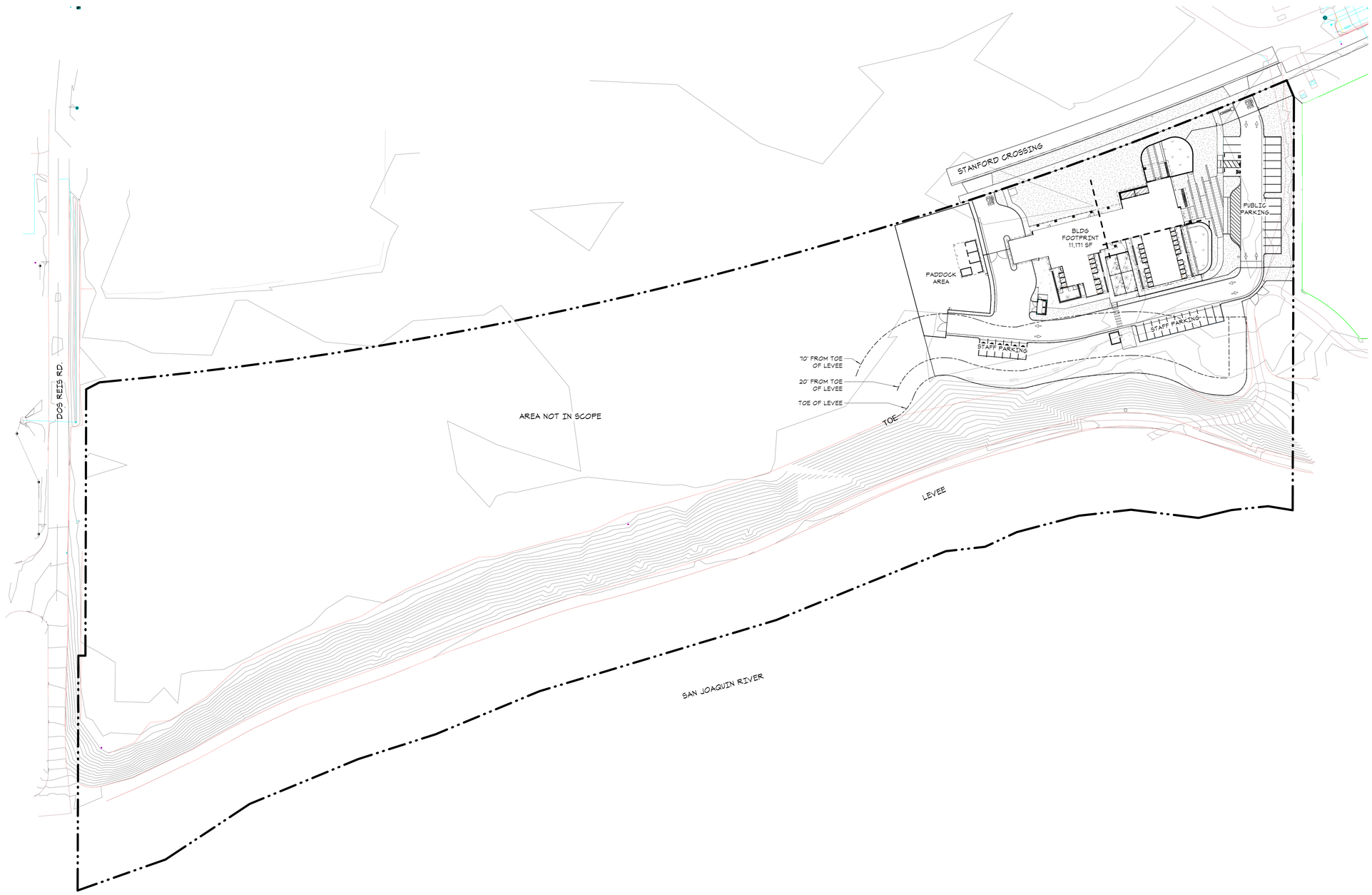
Project No.: SHLA 25-57
Drawn By: RSH
Checked By: RSH

No.	Description	Date	By

BID SET
06/23/2026

WELO NOTES AND CALCULATIONS

L7.1



1 A1.00 SITE PLAN - OVERALL
1" = 50'-0"

0' 25' 50' 100' 200'

LEGEND

- PROPERTY LINE
- ACCESSIBLE PATH OF TRAVEL. FOR ADDITIONAL INFO, REFER TO ACCESSIBILITY STANDARDS SHEET.
- PUBLIC UTILITY EASEMENT
- NATURAL TURF
- ARTIFICIAL TURF
- CONCRETE WALK/ FLAT WORK
- AC PAVING
- FENCE LINE
- TREE
- GX GATE / DOOR TAG

GENERAL NOTES

1. VERIFY ALL DIMENSIONS, EXISTING CONDITIONS AND METHODS OF CONSTRUCTION PRIOR TO START OF ANY WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
2. UNLESS OTHERWISE NOTED OR INDICATED, ALL DIMENSIONS SHOWN ARE TO FACE OF FRAMING, CONC. SLAB AND/OR CMU.
3. CONTRACTOR SHALL WORK TOWARD DIMENSIONS WITH TOLERANCES +/- SHOWN.
4. PATCH AND REPAIR ALL EXISTING ADJACENT SURFACES AFFECTED BY THE IMPROVEMENTS PROPOSED IN THESE CONTRACT DOCUMENTS. RESTORE FINISHES TO THESE AREAS TO MATCH EXISTING.
5. THE PEDESTRIAN PATH OF TRAVEL (P.O.T.) IS INDICATED AS A BARRIER FREE, COMMON ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAX. SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. THE PATHS SURFACE IS AT LEAST 48" WIDE, SLIP RESISTANT, STABLE, FIRM AND SMOOTH. PASSING SPACES AT LEAST 60"X60" ARE LOCATED NOT MORE THAN 200' APART. PART OF P.O.T. W/ CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS NOT MORE THAN 400' APART. THE CROSS-SLOPE DOES NOT EXCEED 2% AND THE SLOPES IN THE DIRECTION OF TRAVEL THAT EXCEED 5% ARE CONSTRUCTED AS ACCESSIBLE RAMPS. THE P.O.T. IS FREE OF OVERHEAD OBSTRUCTIONS UP TO 80" MIN. OBJECTS PROJECTING FROM WALLS W/ LEADING EDGES BETWEEN 27" & 80" A.F.F. DO NOT PROTRUDE MORE THAN 4" FROM THE WALL. THE CONTRACTOR SHALL VERIFY THAT ALL BARRIERS IN THE P.O.T. HAVE BEEN OR WILL BE REMOVED UNDER THIS PROJECT AND COMPLIES W/ 2022 CBC 11B-402 & 11B-403
6. (WHEN PROVIDED) ALL GATES IN PATH OF TRAVEL MUST COMPLY WITH DOOR REQUIREMENTS. PROVIDE A 24" MIN. STRIKE SIDE CLEARANCE ON THE PULL SIDE AND A SMOOTH SURFACE AT THE BOTTOM 10 INCHES OF THE PUSH SIDE OF GATE. SPECIFY ACCESSIBLE / LEVER HARDWARE.
7. PROVIDE BUILDING ENTRANCE SIGN (INTERNATIONAL SYMBOL OF ACCESSIBILITY) AT ACCESSIBLE PUBLIC ENTRANCE DOOR(S). MINIMUM SIZE REQUIRED IS 6"x6"
8. PROVIDE TACTILE STAIR LEVEL IDENTIFICATION SIGN IN EACH FLOOR LEVEL LANDING.
9. WALKWAYS AND SIDEWALKS ALONG ACCESSIBLE ROUTES OF TRAVEL ARE CONTINUOUSLY ACCESSIBLE, HAVE A MAXIMUM 1/2" CHANGES IN ELEVATION, ARE A MINIMUM 48" IN WIDTH, AND HAVE A MAXIMUM 2% CROSS SLOPE.
10. WHERE NECESSARY, TO CHANGE ELEVATION AT A SLOPE EXCEEDING 5% SHALL HAVE A RAMP COMPLYING WITH 2022 CBC SECTION 11B-405 OR 11B-406 AS APPROPRIATE.
11. WHERE WALK CROSSES OF ADJOINS A VEHICULAR WAY, AND THE WALKING SURFACES ARE NOT SEPARATED BY CURBS, RAILINGS OR OTHER ELEMENTS BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS SHALL BE DEFINED BY A CONTINUOUS DETECTABLE WARNING WHICH IS 36" WIDE, COMPLYING WITH 2022 CBC SECTION 11B-705.1.2.5

PARKING

1 STALL PER 400SF FOR OFFICES
(PER LMC 17.76.020)
11,111 SF/400

TOTAL STALLS REQUIRED = 28

ACCESSIBLE STALLS

REF: TABLE 11B-208.2 2025 CALIFORNIA BUILDING CODE

TOTAL STALLS = 2

EVC= "ELECTRIC VEHICLE CHARGING ONLY"

REF: TABLE 5.106.5.3.1 2025 CALIFORNIA GREEN BUILDING CODE

TOTAL STALLS = 6

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

LICENSED ARCHITECT
C28388
September 2027
STATE OF CALIFORNIA

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: PA
Checked By: EW

No.	Description	Date	By

BID SET
6/23/2026

OVERALL SITE PLAN

A1.00

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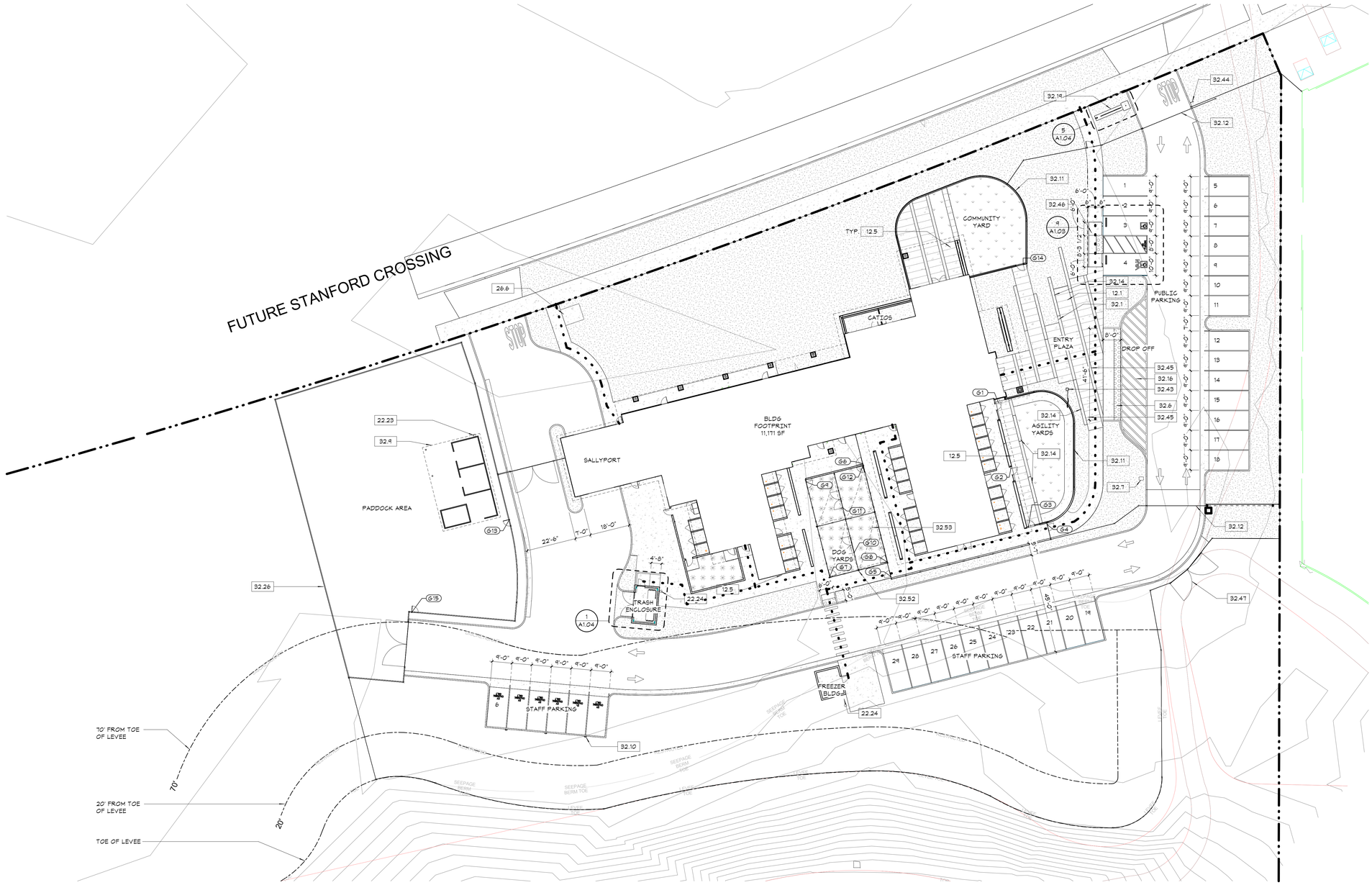

1 SITE ACCESSIBILITY PLAN
1 A1.01 — 1" = 20'-0"

LEGEND

- PROPERTY LINE
- ACCESSIBLE PATH OF TRAVEL. FOR ADDITIONAL INFO, REFER TO ACCESSIBILITY STANDARDS SHEET.
- PUBLIC UTILITY EASEMENT
- NATURAL TURF
- ARTIFICIAL TURF
- CONCRETE WALK/ FLAT WORK
- AC PAVING
- FENCE LINE
- TREE
- GX GATE / DOOR TAG

GENERAL NOTES

1. VERIFY ALL DIMENSIONS, EXISTING CONDITIONS AND METHODS OF CONSTRUCTION PRIOR TO START OF ANY WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
2. UNLESS OTHERWISE NOTED OR INDICATED, ALL DIMENSIONS SHOWN ARE TO FACE OF FRAMING, CONC. SLAB AND/OR CMU.
3. CONTRACTOR SHALL WORK TOWARD DIMENSIONS WITH TOLERANCES +/- SHOWN.
4. PATCH AND REPAIR ALL EXISTING ADJACENT SURFACES AFFECTED BY THE IMPROVEMENTS PROPOSED IN THESE CONTRACT DOCUMENTS. RESTORE FINISHES TO THESE AREAS TO MATCH EXISTING.
5. THE PEDESTRIAN PATH OF TRAVEL (P.O.T.) IS INDICATED AS A BARRIER FREE, COMMON ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAX. SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. THE PATH'S SURFACE IS AT LEAST 48" WIDE, SLIP RESISTANT, STABLE, FIRM AND SMOOTH. PASSING SPACES AT LEAST 60"X60" ARE LOCATED NOT MORE THAN 200' APART. PART OF P.O.T. W/ CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS NOT MORE THAN 400' APART. THE CROSS-SLOPE DOES NOT EXCEED 2% AND THE SLOPES IN THE DIRECTION OF TRAVEL THAT EXCEED 5% ARE CONSTRUCTED AS ACCESSIBLE RAMPS. THE P.O.T. IS FREE OF OVERHEAD OBSTRUCTIONS UP TO 80" MIN. OBJECTS PROJECTING FROM WALLS W/ LEADING EDGES BETWEEN 27" & 80" A.F.F. DO NOT PROTRUDE MORE THAN 4" FROM THE WALL. THE CONTRACTOR SHALL VERIFY THAT ALL BARRIERS IN THE P.O.T. HAVE BEEN OR WILL BE REMOVED UNDER THIS PROJECT AND COMPLIES W/ 2022 CBC 11B-402, & 11B-403
6. (WHEN PROVIDED) ALL GATES IN PATH OF TRAVEL MUST COMPLY WITH DOOR REQUIREMENTS. PROVIDE A 24" MIN. STRIKE SIDE CLEARANCE ON THE PULL SIDE AND A SMOOTH SURFACE AT THE BOTTOM 10 INCHES OF THE PUSH SIDE OF GATE. SPECIFY ACCESSIBLE / LEVER HARDWARE.
7. PROVIDE BUILDING ENTRANCE SIGN (INTERNATIONAL SYMBOL OF ACCESSIBILITY) AT ACCESSIBLE PUBLIC ENTRANCE DOOR(S). MINIMUM SIZE REQUIRED IS 6"X6"
8. PROVIDE TACTILE STAIR LEVEL IDENTIFICATION SIGN IN EACH FLOOR LEVEL LANDING.
9. WALKWAYS AND SIDEWALKS ALONG ACCESSIBLE ROUTES OF TRAVEL ARE CONTINUOUSLY ACCESSIBLE, HAVE A MAXIMUM 1/2" CHANGES IN ELEVATION, ARE A MINIMUM 48" IN WIDTH, AND HAVE A MAXIMUM 2% CROSS SLOPE
10. WHERE NECESSARY, TO CHANGE ELEVATION AT A SLOPE EXCEEDING 5% SHALL HAVE A RAMP COMPLYING WITH 2022 CBC SECTION 11B-405 OR 11B-406 AS APPROPRIATE.
11. WHERE WALK CROSSES OF ADJOINS A VEHICULAR WAY, AND THE WALKING SURFACES ARE NOT SEPARATED BY CURBS, RAILINGS OR OTHER ELEMENTS BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS SHALL BE DEFINED BY A CONTINUOUS DETECTABLE WARNING WHICH IS 36" WIDE, COMPLYING WITH 2022 CBC SECTION 11B-705.1.2.5

PARKING

1 STALL PER 400SF FOR OFFICES
(PER LMC 17.76.020)
11,171 SF/400

TOTAL STALLS REQUIRED = 28

ACCESSIBLE STALLS
REF: TABLE 11B-208.2 2025 CALIFORNIA BUILDING CODE
TOTAL STALLS = 2

EVCS "ELECTRIC VEHICLE CHARGING ONLY"
REF: TABLE 5.106.5.3.1 2025 CALIFORNIA GREEN BUILDING CODE
TOTAL STALLS = 6

KEYNOTES

12.1 METAL BIKE RACK - S.L.D.
12.5 DOG WASTE RECEPTACLE WITH TRASH CAN - S.L.D.
22.23 HOSE BIB WITH HOUSE STAND - S.P.D.
22.24 HOSE BIB, WALL MOUNTED - S.P.D.
26.6 ELECTRICAL TRANSFORMER ON CONCRETE PAD - S.E.D.
32.1 CONCRETE PAVERS - S.L.D
32.6 SURFACE APPLIED TRUNCATED DOME TILES
32.7 GOOSENECK GATE ACCESS PEDESTAL - S.E.D.
32.9 PREFABRICATED BARN - MD BARN MASTER FLOOR PLAN #30
32.10 EV CHARGING STATION, S.E.D.
32.11 GRID WIRE FENCING, S.L.D.
32.12 POWERED SECURITY GATE ON TRACK, S.L.D. & S.E.D.
32.14 CMU SEAT WALL - S.L.D.
32.16 LOADING ZONE, 12'-0" WIDE, STRIPED AT 45° ANGLE
32.19 ILLUMINATED MONUMENT SIGN
32.26 6' TALL STEEL PIPE PADDOCK FENCING - S.L.D.
32.43 FLAG POLES, S.L.D. FOR DETAIL AND FOUNDATION DEPTH
32.44 ACCESSIBLE PARKING LOT ENTRANCE SIGN, SEE 5/A1.03
32.45 DECORATIVE CONCRETE PAVING, S.L.D.
32.46 ACCESSIBLE CONCRETE RAMP, SCD
32.47 MANUAL SWING GATE, S.L.D.
32.52 FENCE MOUNTED SIGN, SIGN MESSAGE: "NO WASHING OR DUMPING! DRAINS TO SAN JOAQUIN RIVER"
32.53 SHADE SAILS - SHADE STRUCTURE TO BE A PREMANUFACTURED SYSTEM

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LICENSED ARCHITECT — C28388 — September 2027 — STATE OF CALIFORNIA

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Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: PA
Checked By: EW

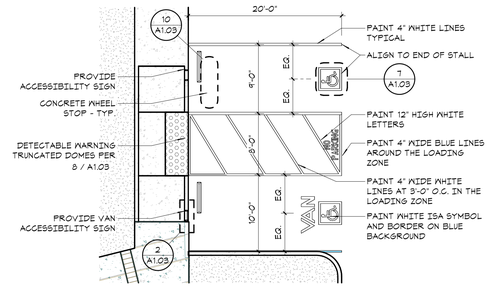
No.	Description	Date	By

BID SET
6/23/2026

SITE ACCESSIBILITY PLAN

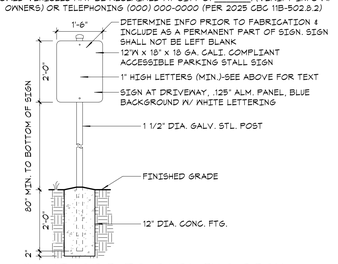
A1.01

2025508.510.01PM

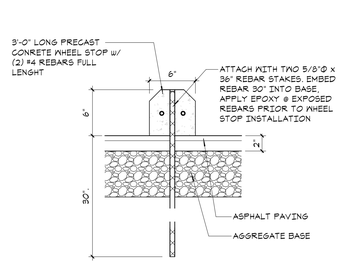


9 A1.03 ADA PARKING STALLS - ENLARGED
1/8" = 1'-0"

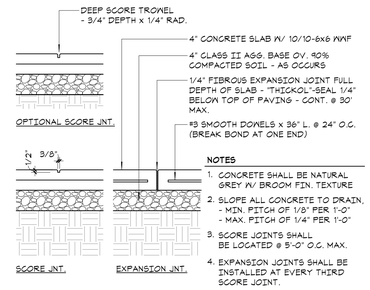
SIGN MESSAGE:
UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATES FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT OWNERS EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT CITY OF_____. (VERIFY INFO W/ OWNERS) OR TELEPHONING (000) 000-0000 (PER 2025 CBC 11B-502.8.3)



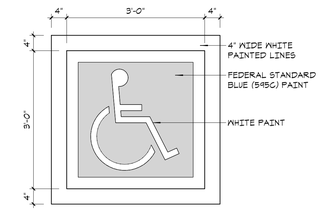
5 A1.03 UNAUTHORIZED PARKING SIGN
1/2" = 1'-0"



10 A1.03 WHEEL STOP
1 1/2" = 1'-0"



6 A1.03 EXPANSION & SCORE JOINTS
1" = 1'-0"

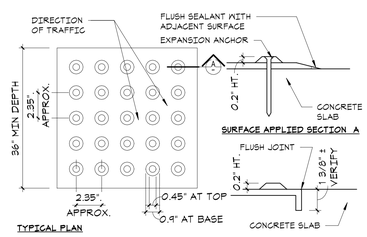


NOTE:
EACH DISABLE PARKING SPACE SHALL HAVE A 3'-0" x 3'-0" FOOT SQUARE INTERNATIONAL SYMBOL OF ACCESSIBILITY PAINTED AS SHOWN.

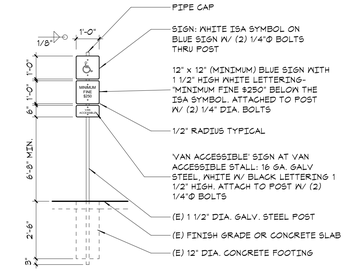
7 A1.03 PAINTED ACCESSIBLE SYMBOL
3/4" = 1'-0"

FEDERAL YELLOW ARMOR TILE CAST IN PLACE/ SURFACE APPLIED, NON-SLIP, INLINE DOME TACTILE TILE BY ARMOR TILE (WWW.ARMOR-TILE.COM). INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

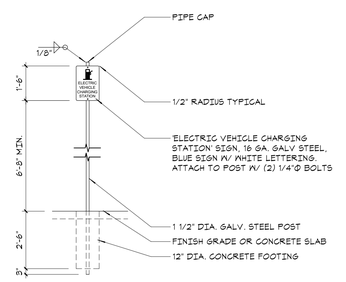
DETECTABLE WARNING SURFACES SHALL BE YELLOW AND APPROXIMATE 33538 OF SAE AMS-STD-595A PER CBC 11B-705.1.1.3



8 A1.03 TRUNCATED DOMES
3" = 1'-0"



2 A1.03 ACCESS. PARKING STALL SIGN
3/8" = 1'-0"



3 A1.03 DISABLED PARK'G SPACE SIGN
3/8" = 1'-0"

4 A1.03 CHARGING STATION SIGN
3/8" = 1'-0"

LDA
DESIGNERS & ARCHITECTS

Architect:
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Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

REGISTERED ARCHITECT
EDWARD WILLIAM WISE
C28388
September 2027
STATE OF CALIFORNIA

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
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Project No.: 510-08-23
Drawn By: PA
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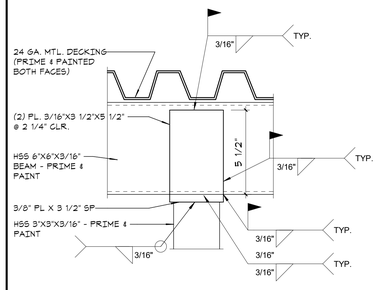
No.	Description	Date	By

BID SET
6/23/2026

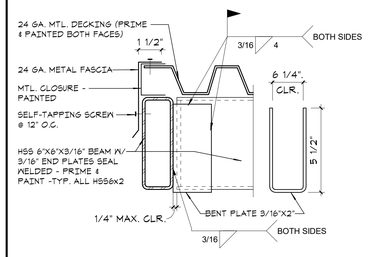
SITE DETAILS

A1.03

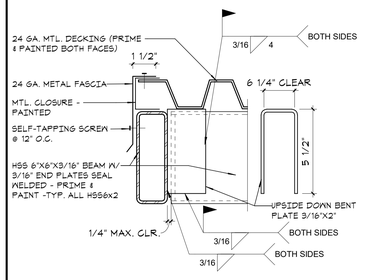
6/23/2026 3:53 PM



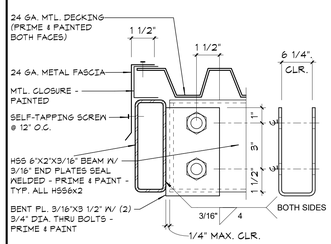
26 A1.04 HSS COL. TO BEAM
3" = 1'-0"



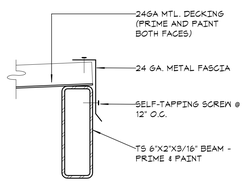
27 A1.04 CANOPY RAKE AT EAVE BEAMS
3" = 1'-0"



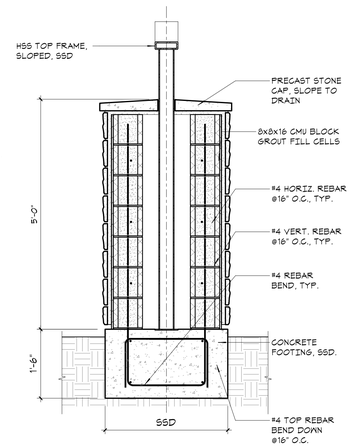
28 A1.04 RAKE AT COLUMN BEAM OVERHANG
3" = 1'-0"



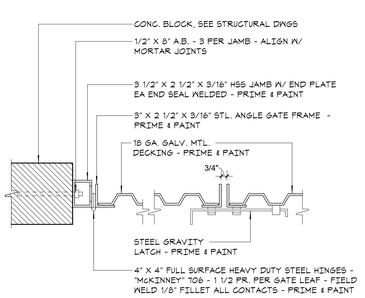
29 A1.04 CANOPY RAKE
3" = 1'-0"



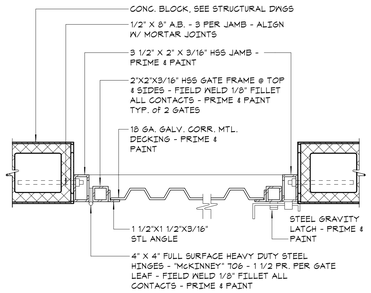
30 A1.04 CANOPY OVERHANG
3" = 1'-0"



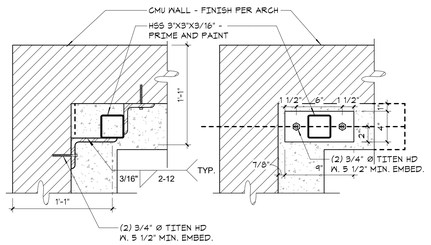
22 A1.04 MONUMENT SIGN SECTION
3/4" = 1'-0"



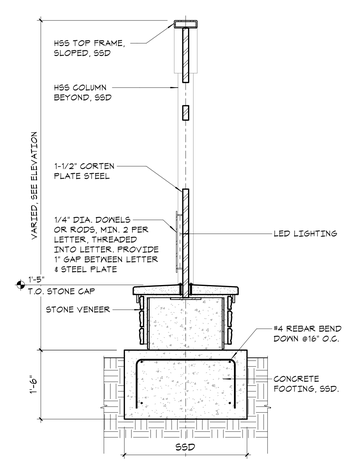
23 A1.04 TRASH ENCLOSURE GATE LATCH
1 1/2" = 1'-0"



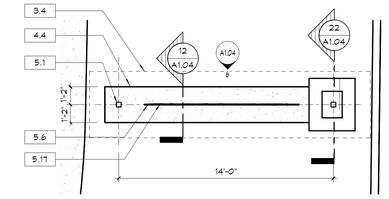
24 A1.04 STL. DOOR JAMB
1 1/2" = 1'-0"



25 A1.04 TRASH ENCLOSURE COLUMN MOUNTING
1 1/2" = 1'-0"

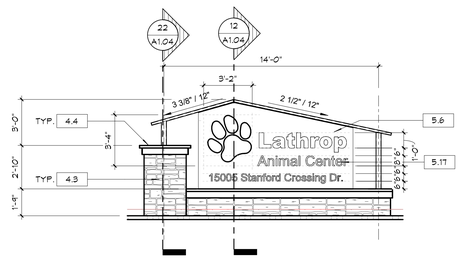


12 A1.04 MONUMENT SIGN SECTION
3/4" = 1'-0"

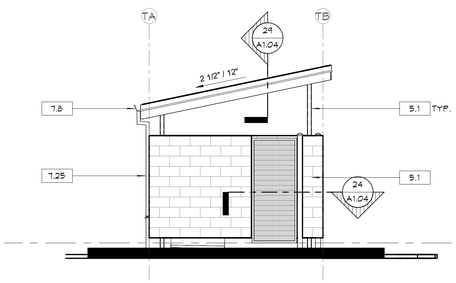


1. PROVIDE SHOP DRAWINGS FOR APPROVAL, SHOWING ALL DIMENSIONS, ATTACHMENTS, AND MATERIALS.
2. CONTRACTOR RESPONSIBLE FOR ALL PERMITTING, INCLUDING PROCESSING.
3. DE-BURR AND EASE ALL EDGES ON ALL METAL ELEMENTS.
4. LETTERING: CONFIRM ALL LETTERING, INCLUDING SPELLING AND ADDRESS , WITH OWNER'S REPRESENTATIVE AND ARCHITECT PRIOR TO FABRICATION.

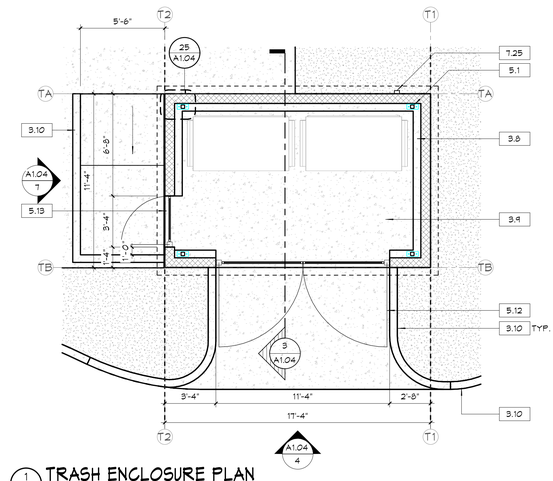
5 A1.04 MONUMENT SIGN PLAN
1/4" = 1'-0"



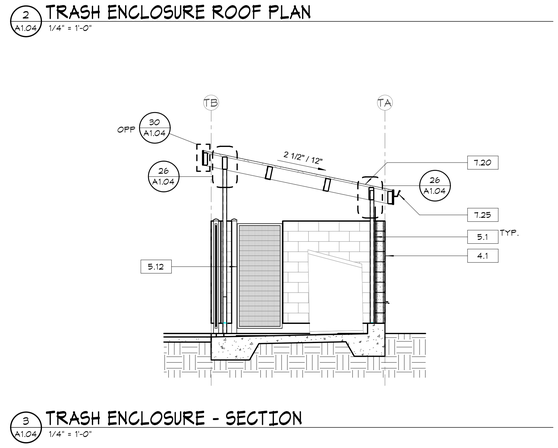
6 A1.04 MONUMENT SIGN ELEVATION
1/4" = 1'-0"



7 A1.04 EAST ELEVATION
1/4" = 1'-0"

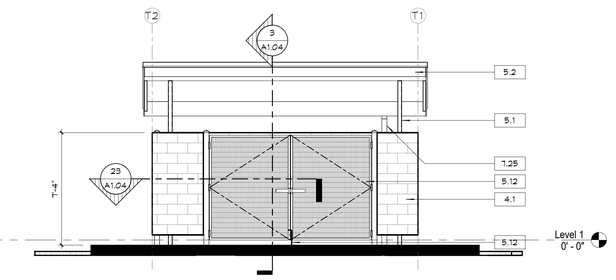


1 A1.04 TRASH ENCLOSURE PLAN
1/4" = 1'-0"



2 A1.04 TRASH ENCLOSURE ROOF PLAN
1/4" = 1'-0"

3 A1.04 TRASH ENCLOSURE - SECTION
1/4" = 1'-0"



4 A1.04 NORTH ELEVATION
1/4" = 1'-0"

KEYNOTES

3.4	CONCRETE FOOTING - S.S.D.
3.8	6" WIDE CONC. CURB
3.9	6" CONCRETE SLAB W/#4 @ 18" O.C. E.W. - SLOPE TO FRONT 1/4" / FT.
3.10	CONC. CURB - S.C.D.
4.1	8X8X16 CMU
4.3	STONE VENEER
4.4	PRECAST STONE CAP
5.1	HSS COLUMN - PRIME & PAINT - S.S.D.
5.2	HSS BEAM - PRIME & PAINT - S.S.D.
5.8	STEEL PLATE WITH PANAPRINT CUT OUT PER ARCHITECT. FINISH TO BE OGM K5 FINISH - COLOR TO BE SELECTED BY ARCHITECT.
5.12	PR. STL. GATE DOORS W/ 18 GA. STL. PANEL - PRIME & PAINT
5.13	STL. GATE W/ MORTISE LOCK - PRIME & PAINT
5.17	METAL CAST ALUMINUM SIGNAGE LETTERS
7.8	GSM BEVELED GUTTER - PRIME & PAINT U.O.N.
7.20	STANDING SEAM METAL ROOF - COLOR AS SELECTED BY ARCHITECT.
7.25	PREFINISHED GSM RAIN WATER LEADER CONNECT TO STORM DRAIN - COLOR TO MATCH S.S.M.R.

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TRASH ENCLOSURE & MONUMENT SIGN

A1.04

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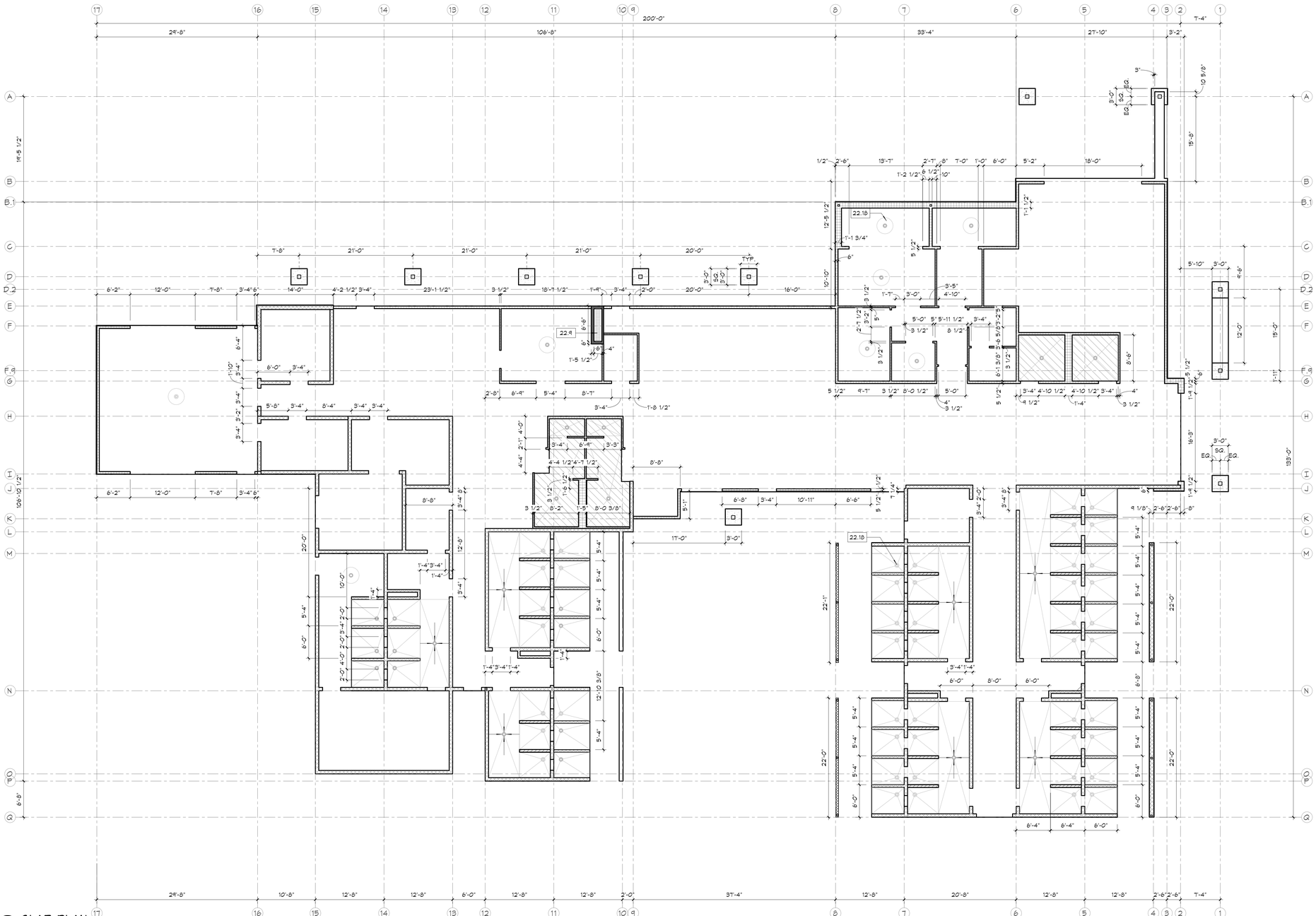
LEGEND

- CONC. SLAB - S.S.D.
- 2" DEPRESSED SLAB
- 6" TALL CONCRETE CURB
- 8" TALL CONCRETE CURB
- 12" TALL CONCRETE CURB
- CMU WALL
- FLOOR DRAIN - SLOPE TO DRAIN - S.F.D.
- FLOOR DRAIN - 3'-0" DIA. DEPRESSED SLAB & SLOPE TO DRAIN - S.F.D.

KEYNOTES

22.9 TRENCH DRAIN, S.F.D.
22.18 FLOOR DRAIN, SLOPE FLOOR TO DRAIN, S.F.D.



1 A2.00 SLAB PLAN
1/8" = 1'-0"

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

LICENSED ARCHITECT
C28388
September 2027
STATE OF CALIFORNIA

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/2026

SLAB PLAN

A2.00

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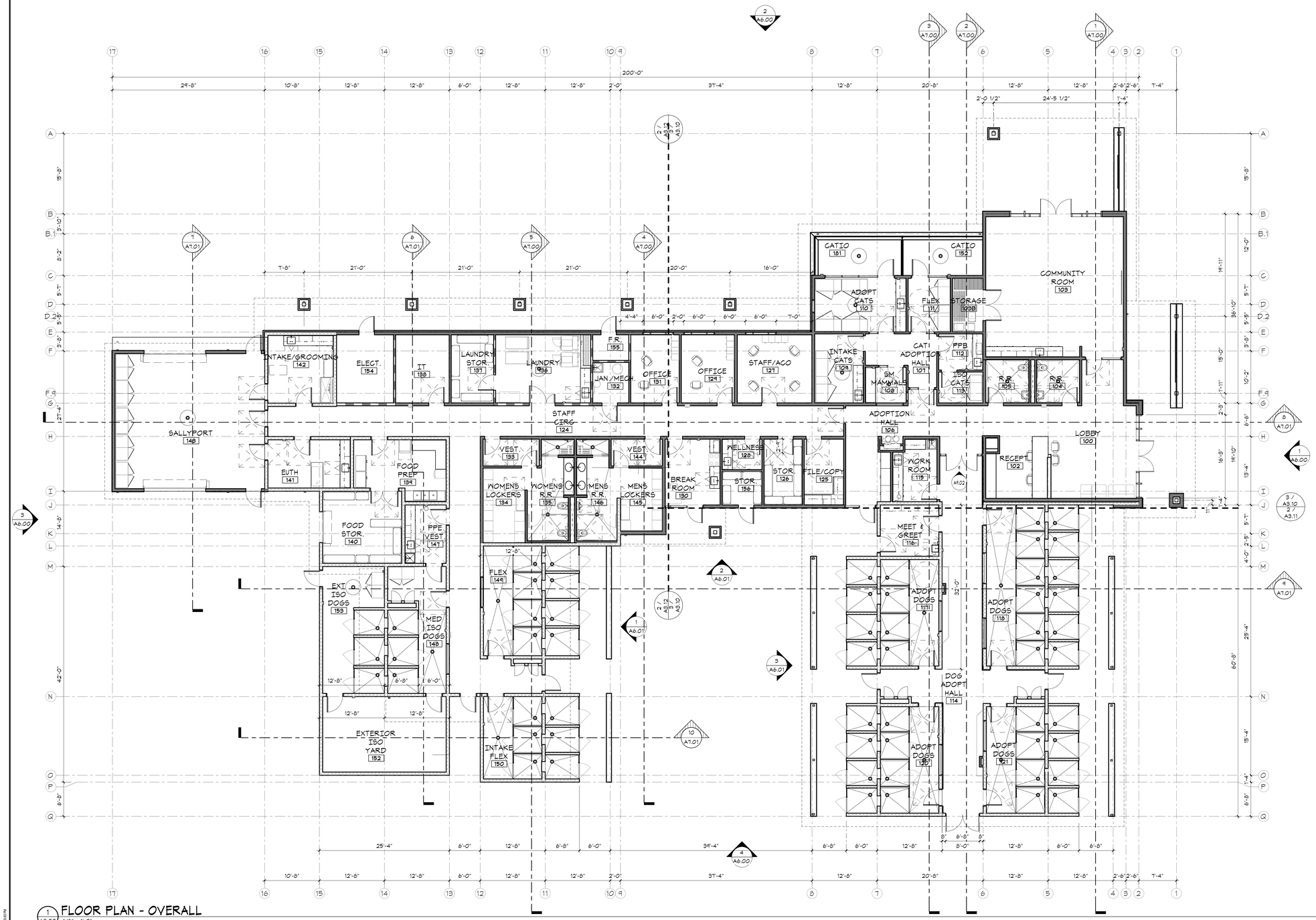

1 A3.00 FLOOR PLAN - OVERALL
1/8" = 1'-0"

LEGEND

- DOOR
- STOREFRONT/CURTAIN WALL
- AREA PLAN MATCHLINE
- ABOVE
- 101 DOOR REFERENCE NUMBER
- 101 RATED DOOR REFERENCE NUMBER
- S100 STOREFRONT REFERENCE NUMBER

GENERAL NOTES

1. UNLESS OTHERWISE NOTED OR INDICATED, ALL DIMENSIONS SHOWN ARE TO FACE OF FRAMING, CONC. SLAB AND/OR CMU.
2. CONTRACTOR SHALL WORK TOWARD DIMENSIONS WITH TOLERANCES +/- SHOWN.
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4. PROVIDE FIRE BLOCKING EVERY 10'-0" VERTICALLY & HORIZONTALLY AT CONCEALED SPACES, WALLS, PARTITIONS, CEILINGS AND INTERSECTIONS - TYP.
5. ALL INTERIOR DOORS SHALL HAVE MIN. 18" WIDTH CLEARANCE ON THE SIDE TO WHICH THE DOOR SWINGS FROM THE STRIKE EDGE OF THE DOOR.
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7. EQUIPMENT IS PER OWNER UNLESS OTHERWISE NOTED. CONTRACTOR TO INSTALL ALL GAS, WATER, PLUMBING PER EQUIPMENT REQUIREMENTS. REFER TO OWNER FOR REQUIREMENTS.
8. MINIMUM 1/8":12 SLOPE FOR CONCRETE FLOORS WHERE FLOOR DRAIN OCCURS.
9. REFER TO SHEET AS4.00 ACCESSIBILITY STANDARDS AND 04.10 ACCESSIBILITY DETAILS FOR ADDITIONAL INFORMATION AND TYPICAL ACCESSIBLE DETAILS.
10. REFER TO ROOM FINISH PLAN FOR ALL FINISH DESIGNATIONS
11. REFER TO STRUCTURAL DWGS. FOR LOCATIONS AND EXTENT OF CONCRETE CURB AT INTERIOR WALLS.

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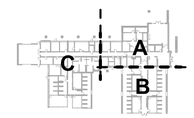

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OVERALL FLOOR PLAN

A3.00

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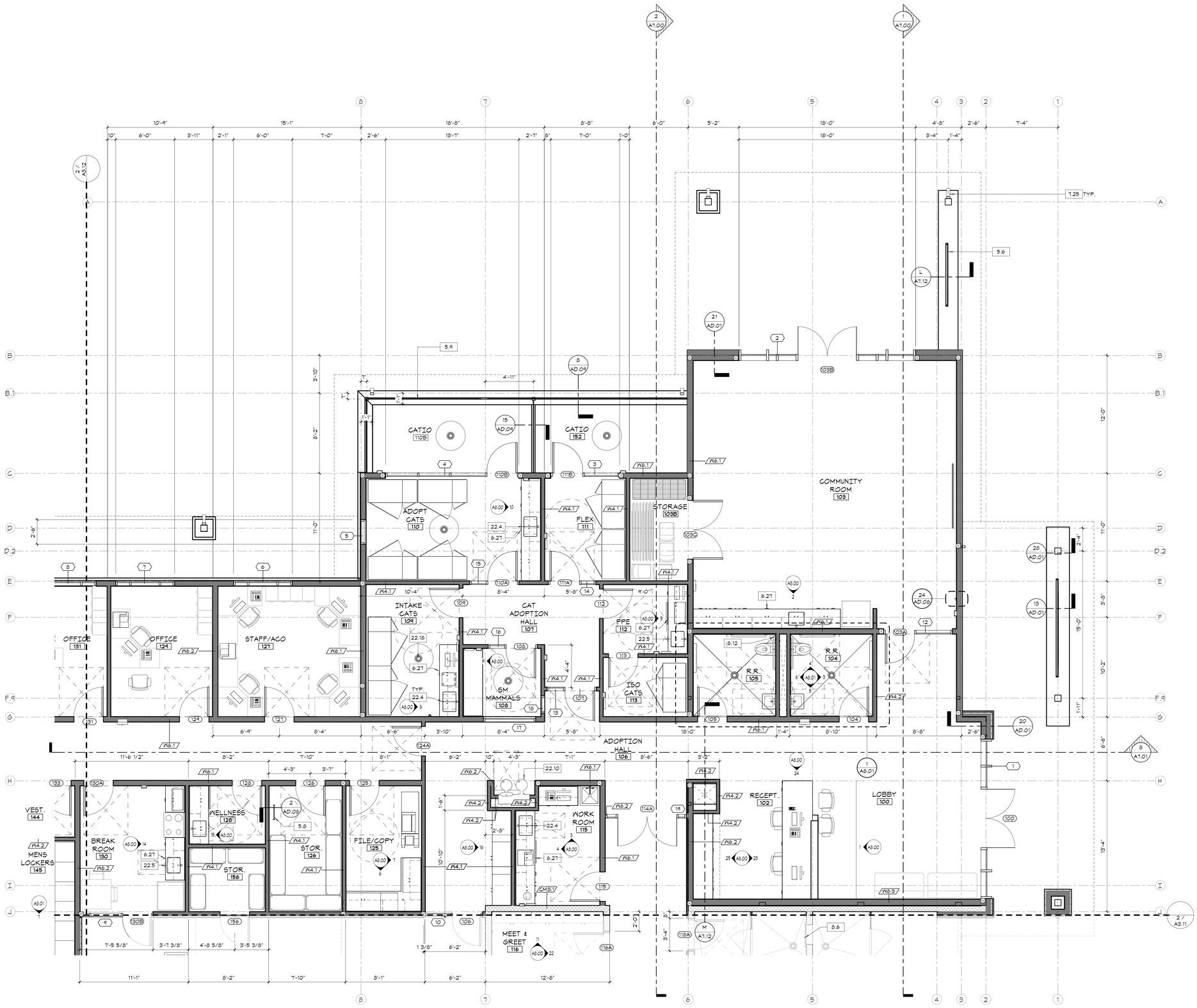

FLOOR PLAN - AREA A

3 / A3.10 — 1/4" = 1'-0"

LEGEND

- DOOR
- STOREFRONT/CURTAIN WALL
- AREA PLAN MATCHLINE
- ABOVE
- 101 — DOOR REFERENCE NUMBER
- 101 — RATED DOOR REFERENCE NUMBER
- S100 — STOREFRONT REFERENCE NUMBER

WALL LEGEND

- W4.1 — 2x4 WOOD STUDS @ 16" O.C. W/ R-15 INSULATION, FULL HEIGHT SEE DETAIL 2 AD.01
- W4.2 — 2x4 WOOD STUDS @ 16" O.C. W/ R-15 INSULATION, 6" ABOVE CEILING SEE DETAIL 2 AD.01
- W6.1 — 2x6 WOOD STUDS @ 16" O.C. W/ R-19 INSULATION, FULL HEIGHT SEE DETAIL 2 AD.01
- W6.2 — 2x6 WOOD STUDS @ 16" O.C. W/ R-19 INSULATION, 6" ABOVE CEILING SEE DETAIL 2 AD.01
- CMB.1 — CMB.1 - 8x8x16 CMU WALL FULL HEIGHT - SEE DETAIL 1 AD.01
- CMB.3 — CMB.1 - 8x8x16 CMU WALL PARTIAL HEIGHT - SEE DETAIL 1 AD.01
- RC.1 — RC.1 - 1-1/2" METAL STUDS @ 16" O.C. W/ R-13 INSULATION, FULL HEIGHT SEE DETAIL 3 AD.01
- 1-HR M4.1 — 1-HR M4.1 - 2X4 WOOD STUDS @16" O.C. W/ R-15 INSULATION, FULL HEIGHT, SEE DETAIL 20 AD.02
- 1-HR M6.1 — 1-HR M6.1 - 2X6 WOOD STUDS @16" O.C. W/ R-19 INSULATION, FULL HEIGHT, SEE DETAIL 20 AD.02

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4. PROVIDE FIRE BLOCKING EVERY 10'-0" VERTICALLY & HORIZONTALLY AT CONCEALED SPACES, WALLS, PARTITIONS, CEILINGS AND INTERSECTIONS - TYP.
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11. REFER TO STRUCTURAL DWGS. FOR LOCATIONS AND EXTENT OF CONCRETE CURB AT INTERIOR WALLS.
12. TOP PLATE HEIGHTS SHALL BE ABLE ACCOMMODATE NOMINAL GYP. BRD. SIZE BEING APPLIED TO WALLS.

KEYNOTES

- 5.6 STEEL PLATE WITH PAWPRINT CUT OUT PER ARCHITECT. FINISH TO BE OGM K5 FINISH - COLOR TO BE SELECTED BY ARCHITECT.
- 5.8 METAL ACCESS LADDER - PRE-FINISHED, INSTALLED TO MEET ALL REQUIREMENTS SPECIFIED BY THE 2025 CMC 304.3.1.1 AND 304.3.2
- 5.9 CUSTOM CUT PERFORATED METAL ENCLOSURE WITH GRID WIRE SECURITY PANELS. - OGM K5 FINISH COLOR SELECTED BY ARCHITECT
- 6.27 STAINLESS STEEL COUNTERTOP AND FULL HT BACKSPLASH @ BACK AND SIDE - TOP @ 2'-10" A.F.F.
- 7.25 PREFINISHED GSM RAIN WATER LEADER CONNECT TO STORM DRAIN - COLOR TO MATCH S.S.M.R.
- 8.6 GUILLOTINE DOOR
- 8.12 WALL ACCESS PANEL FOR TRAP PRIMER
- 22.4 UNDERMOUNT S.S. TWO COMPARTMENT S.S. SINK
- 22.5 UNDERMOUNT SINK - S.P.D.
- 22.10 ADA COMPLIANT DRINKING FOUNTAIN/BOTTLE FILLING STATIONS - COMPLY WITH SECTION 11B-602.10 - S.P.D.
- 22.18 FLOOR DRAIN, SLOPE FLOOR TO DRAIN. S.P.D.

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Key Plan:

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FLOOR PLAN - AREA A

A3.10

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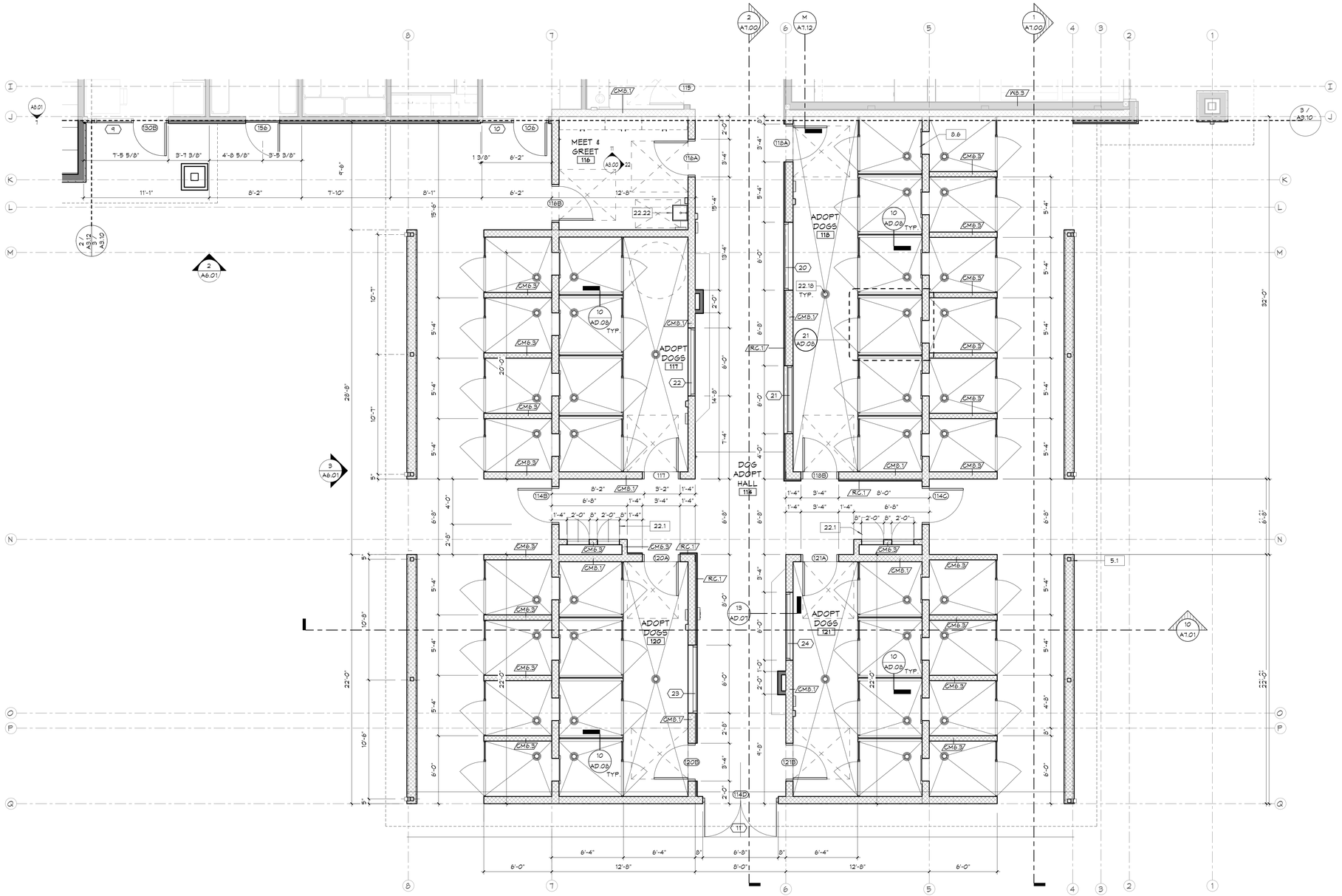

2 FLOOR PLAN - AREA B
A3.11 1/4" = 1'-0"

LEGEND

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- RC.1 — RC.1 - 1-1/2" METAL STUDS @ 16" O.C. W/ R-7.5 INSULATION, FULL HEIGHT SEE DETAIL 3 / AD.01
- 1-HR M4.1 — 1-HR M4.1 - 2X4 WOOD STUDS @16" O.C. W/ R-15 INSULATION, FULL HEIGHT, SEE DETAIL 20 / AD.02
- 1-HR M6.1 — 1-HR M6.1 - 2X6 WOOD STUDS @16" O.C. W/ R-19 INSULATION, FULL HEIGHT, SEE DETAIL 20 / AD.02

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KEYNOTES

5.1 HSS COLUMN - PRIME & PAINT - S.S.D.
8.6 GUILLOTINE DOOR
22.1 FLUSH VALVE METAL ACCESS PANEL
22.18 FLOOR DRAIN, SLOPE FLOOR TO DRAIN. S.F.D.
22.22 HANDWASH SINK - S.F.D.

LDA DESIGNERS & ARCHITECTS

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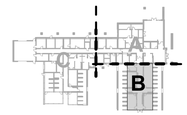

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BID SET
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FLOOR PLAN - AREA B

A3.11

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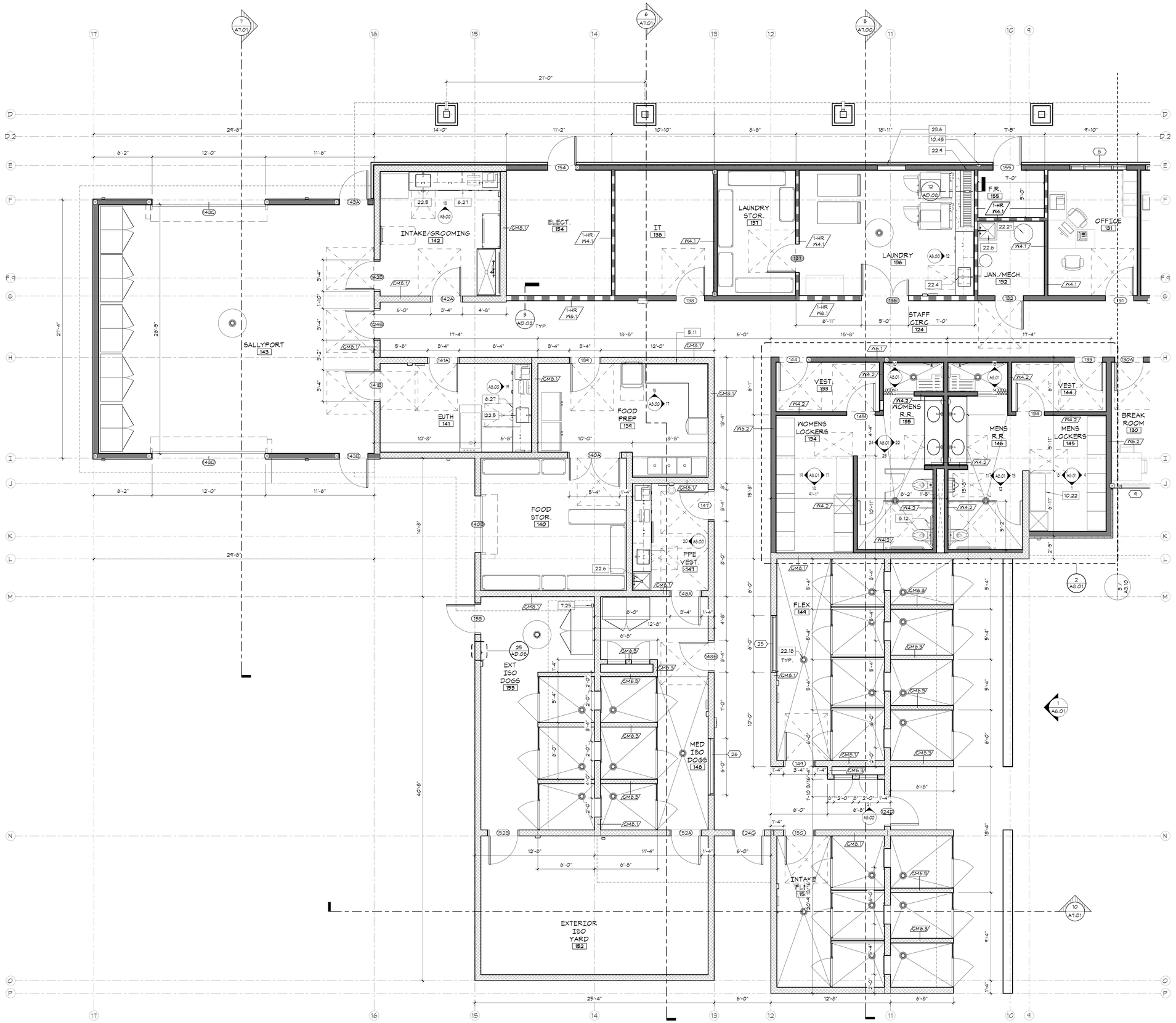

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- RC.1 — RC.1 - 1-1/2" METAL STUDS @ 16" O.C. W/ R-7.5 INSULATION, FULL HEIGHT SEE DETAIL 3 AD.01
- 1-HR M4.1 — 1-HR M4.1 - 2X4 WOOD STUDS @16" O.C. W/ R-15 INSULATION, FULL HEIGHT, SEE DETAIL 20 AD.02
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KEYNOTES

- 5.11 S.S. COUNTERTOP WITH MARINE EDGE - MOUNT SURFACE AT 2'-10" ABOVE FINISH FLOOR
- 6.21 STAINLESS STEEL COUNTERTOP AND FULL HT BACKSPLASH @ BACK AND SIDE - TOP @ 2'-10" A.F.F.
- 7.25 PREFINISHED 6SM RAIN WATER LEADER CONNECT TO STORM DRAIN - COLOR TO MATCH S.S.M.R.
- 8.12 WALL ACCESS PANEL FOR TRAP PRIMER
- 10.22 ADA COMPLIANT BENCH SEAT 20" WIDE X 48" LENGTH
- 10.43 KNOX BOX KEYED FOR LOCAL FIRE PROTECTION DISTRICT, MOUNTED 5'-6" A.F.F. MIN.
- 22.4 UNDERMOUNT S.S. TWO COMPARTMENT S.S. SINK
- 22.5 UNDERMOUNT SINK - S.P.D.
- 22.6 FLOOR MOUNT UTILITY SINK - S.P.D.
- 22.9 TRENCH DRAIN, S.P.D.
- 22.18 FLOOR DRAIN, SLOPE FLOOR TO DRAIN, S.P.D.
- 22.21 WATER HEATER - S.P.D.
- 23.6 WALL LOUVER AIR INTAKE - SMD

2 FLOOR PLAN - AREA C

A3.12 1/4" = 1'-0"

LDA DESIGNERS & ARCHITECTS

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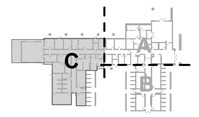

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BID SET
6/23/2026

FLOOR PLAN - AREA C

A3.12

2025/08/15 6:49 PM

EQUIPMENT SCHEDULE

ITEM #	ITEM	OFOI	OFCI	ELECTRICAL	PLUMBING
100A	KENNEL 6'-0" HIGH, STAINLESS STEEL, TOP WIRE PANEL, SOLID SIDE PANEL(S) ON CURB, MFR BY SHOR-LINE OR APPROVED EQUAL				
100B	KENNEL 6'-0" HIGH, STAINLESS STEEL, TOP WIRE PANEL, MFR BY SHOR-LINE OR APPROVED EQUAL				
100K	STAINLESS STEEL 6'-0" ASSEMBLY, (2) 30" WIDE X 30" TALL TOP COMPARTMENT, (1) 60" WIDE X30" TALL BOTTOM COMPARTMENT, ON 8-1/4" RECESSED CASTERS, MFR BY SHOR-LINE OR APPROVED EQUAL				
100P	STAINLESS STEEL CAT CONDO, 60" WIDE, 30" DEEP, (2) 36"TOP COMPARTMENTS, w/ 8 1/4" RECESSED CASTERS. PLEXIGLASS BACK, MRF BY SHORE-LINE OR APPROVED EQUAL				
100Q	STAINLESS STEEL CAT CONDO, 60" WIDE, 30" DEEP, (2) 36"TOP COMPARTMENTS, w/ 8 1/4" RECESSED CASTERS, MRF BY SHORE-LINE OR APPROVED EQUAL				
104	45 LBS COMMERCIAL WASHER-EXTRACTOR, MFR BY UNI-MAC, MODEL UNT045V40V, OR APPROVED EQUAL			X	X
105	24"X48" TABLE	YES			
106	36"X36" TABLE				
107	24W X 72H X 24D SINGLE STACK METAL LOCKER WITH SHELF, BENCH, AND HOOK; COLOR SELECTED BY ARCHITECT				
108	BENCH	YES			
111	SHORE-LINE 60" WET TABLE W/ STAINLESS STEEL TUB COVER 904.4000.11 & 804.3004.03				X
112	RESCUE MIXING STATION - 985200 2-WAY BALL VALVE MIXING STATION				
113	RESCUE DISINFECTANT CONCENTRATE	YES			
115	SHORE-LINE CANINE WALK ON SCALE OR APPROVED EQUAL	YES		X	
116	CAT SCALE	YES			
117	WALL MOUNTED FOLD UP STAINLESS EXAM TABLE, HORIZONTAL OR VERTICAL ORIENTATION, MFR BY SHOR-LINE OR APPROVED EQUAL				
119	COMMERCIAL FRIDGE				
120	GROOMING TUB				
130	REFRIGERATOR-FULL SIZE - LEFT HAND DOOR - GE GFE26JYMFS OR APPROVED EQUAL	YES		X	
131	INSIGNIA - 1.7 CU. FT. MINI FRIDGE NS-CF17BK9	YES		X	
132	35 LBS COMMERCIAL TUMBLE DRYER, MRF BY UNI-MAC, MODEL UTS30NVN OR APPROVED EQUAL			X	
136	COMMERCIAL DISHWASHER SYSTEM. - 208V 3-PHASE, HOBART AM-15				
137	FLAT SCREEN TELEVISION & WALL MOUNT		YES	X	
138	MICROWAVE, MID-SIDE - MFR GE, SAMSUNG, SHARP OR APPROVED EQUAL	YES		X	
141	CHAIRS-EXTENDED HEIGHT	YES			
152	COMPUTER	YES		X	
153	PHONE	YES		X	
153	WALL MOUNTED PHONE	YES		X	
154	PRINTER	YES		X	
155	LARGE COPIER MACHINE	YES		X	
156	CREDIT CARD MACHINE	YES		X	
157	FILE CABINET	YES			
160	METAL FULL HEIGHT SHELVES		YES		
162	TRASH CAN, VERIFY IT FITS IN ANIMAL ROOM CASEWORK		YES		
164	TABLES & STORAGE CART	YES			
165	CHAIRS & STORAGE CART	YES			
172	STAINLESS STEEL DOG LEASH ANCHOR, MFR BY DOGHOOK (MASONRY HARDWARE KIT WHERE REQUIRED), OR APPROVED EQUAL				
173	HAND SANITIZER DISPENSER- 3M UNIVERSAL HANDS FREE WALL DISPENSER OR APPROVED EQUAL				
174	GLOVE DISPENSER- ULINE H9088 OR APPROVED EQUAL				
178	UNDERCOUNTER ICE MAKER, MANITONOC NEO 65/80	YES		X	X

NOTE: ALL EQUIPMENT OFCI U.O.N.

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DESIGNERS & ARCHITECTS

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222 Central Court
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LICENSED ARCHITECT
C28388
September 2027
STATE OF CALIFORNIA

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
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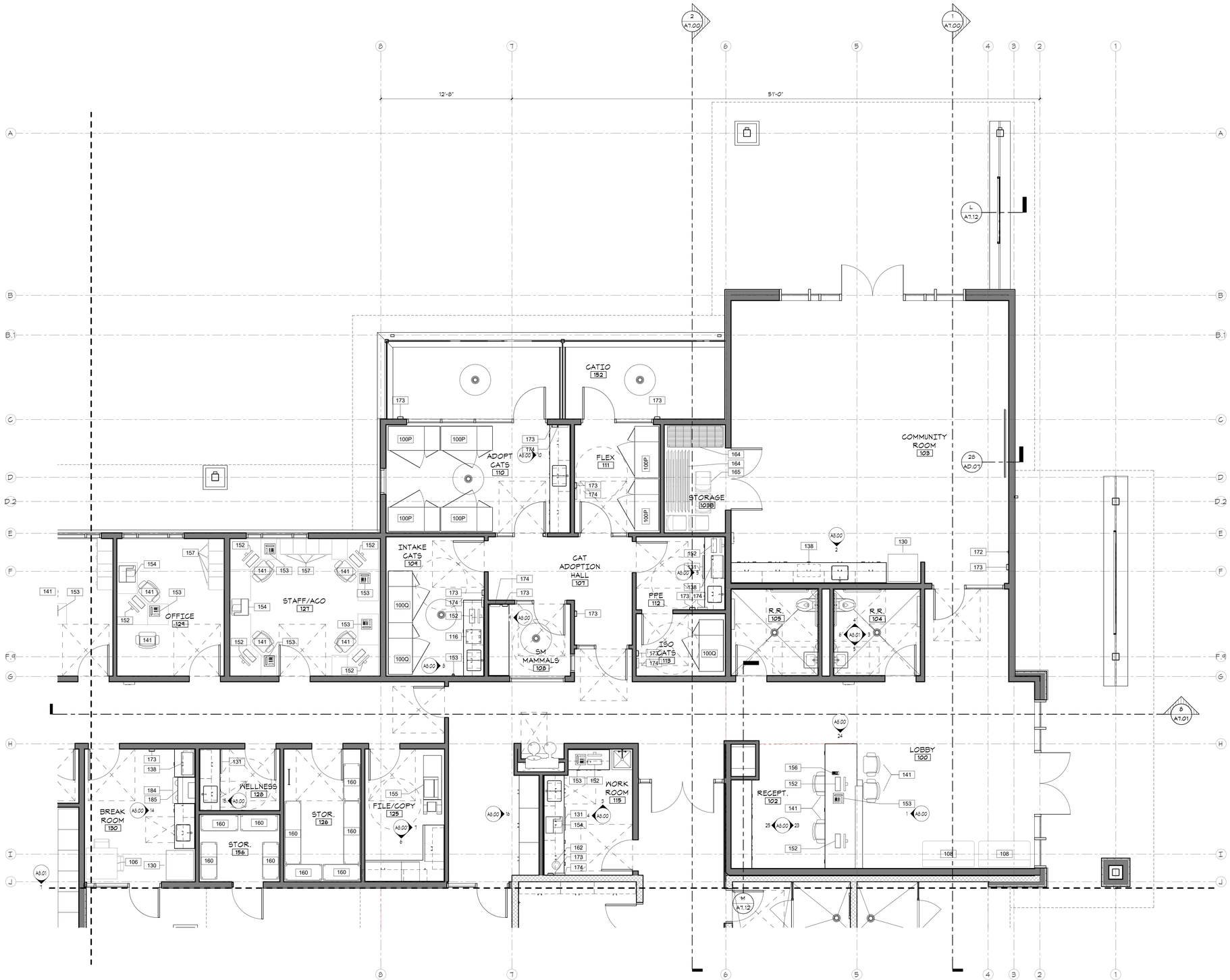
EQUIPMENT SCHEDULE

A3.20

PLOTTED: 6/23/2026

NOTE: SEE A9.20 FOR EQUIPMENT SCHEDULE



1 EQUIPMENT FLOOR PLAN - AREA A
A3.21 1/4" = 1'-0"

Architect:
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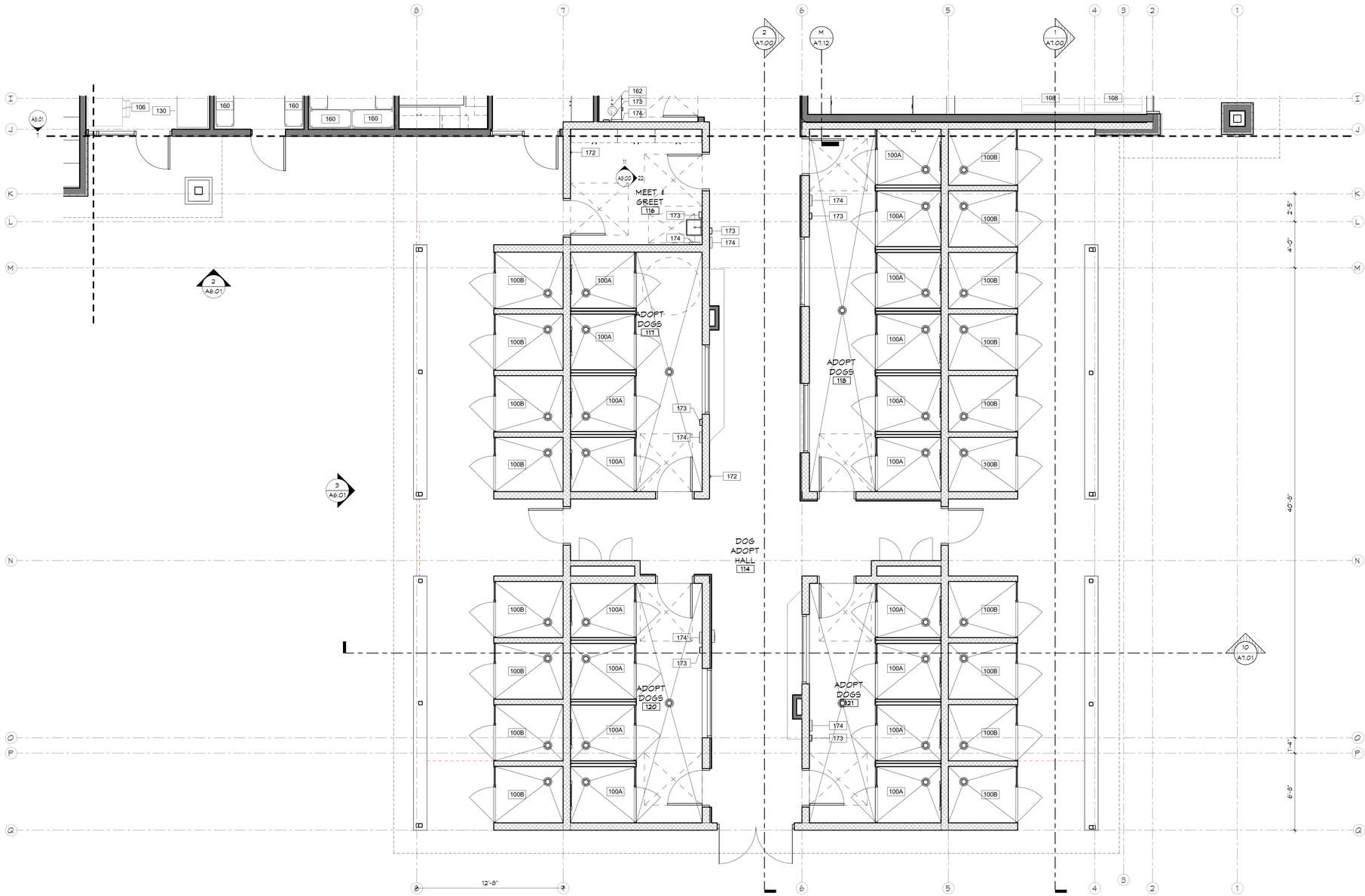
EQUIPMENT FLOOR PLAN - AREA A

A3.21

20220510 Rev

NOTE: SEE A9.20 FOR EQUIPMENT SCHEDULE



1 A3.22 EQUIPMENT FLOOR PLAN - AREA B
1/4" = 1'-0"

Architect:
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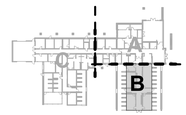
Key Plan:



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EQUIPMENT FLOOR PLAN - AREA B

A3.22

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NOTE: SEE A9.20 FOR EQUIPMENT SCHEDULE

1 A9.23 EQUIPMENT FLOOR PLAN - AREA C
1/4" = 1'-0"

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15005 STANFORD CROSSING
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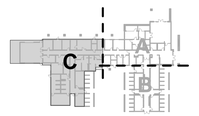
Key Plan:



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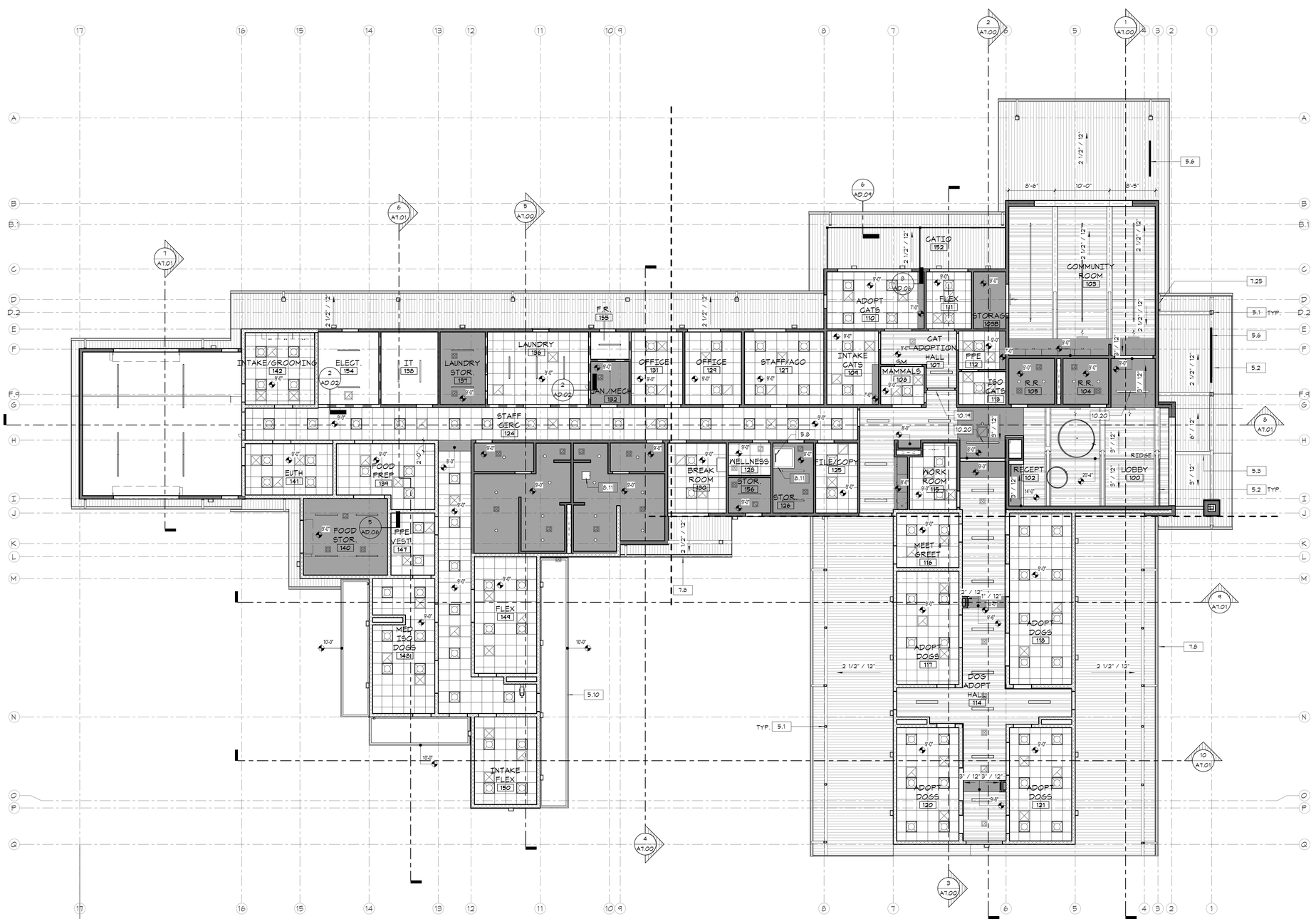
EQUIPMENT FLOOR PLAN - AREA C

A3.23

20220208 AS BSW



1 FIRST FLOOR REFLECTED CEILING PLAN
A4.00 1/8" = 1'-0"

LEGEND

- 24" x 48" TEGULAR ACOUSTICAL CEILING PANEL - SEE DETAIL 1 AD.06
- 5/8" TYPE 'X' GYPSUM BOARD, TEXTURE, PRIME & PAINT
- METAL SOFFIT PANEL ARMSTRONG METALWORKS LINEAR - COLOR SELECTED BY ARCHITECT
- ARMSTRONG METALWORKS LINEAR DIVERSE - PERFORATED WITH ACOUSTICAL BACKING - VARYING WIDTHS AND COLORS
- SUPPLY AIR REGISTER - S.M.D.
- RETURN AIR REGISTER - S.M.D.
- EXHAUST AIR REGISTER - S.M.D.
- LAY-IN LIGHT FIXTURE - S.E.D.
- SURFACED MOUNTED LIGHT - S.E.D.
- RECESSED DOWN LIGHT - S.E.D.

CEILING NOTES

1. FOR LIGHT FIXTURES & MECHANICAL EQUIPMENT NOT REFERENCED REFER TO ELECTRICAL & MECHANICAL DRAWINGS.
2. CENTER CEILING FIXTURES & MECHANICAL GRILLS WITHIN THE CEILING TILE PATTERN - TYP.
3. FIRE BLOCK EVERY 10'-0" VERTICALLY & HORIZONTALLY AT ALL CONCEALED SPACES, WALLS, PARTITIONS, CEILINGS & INTERCONNECTIONS - TYP.
4. SUSPENDED CEILINGS IN SEISMIC DESIGN CATEGORIES D, E & F COMPLY WITH ASCE 7-16 SEC. 13.5.6.2.2 AS FOLLOWS:
   a. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE OR CHANNEL SHALL BE NOT LESS THAN 2.0 in. UNLESS QUALIFIED PERIMETER SUPPORTING CLIPS ARE USED.
   b. CLOSURE ANGLES OR CHANNELS SHALL BE SCREWED OR OTHERWISE POSITIVELY ATTACHED TO WALL STUDS OR OTHER SUPPORTING STRUCTURES. PERIMETER SUPPORTING CLIPS SHALL BE QUALIFIED IN ACCORDANCE WITH APPROVED TEST CRITERIA PER SECTION 13.2.5.
   c. PERIMETER SUPPORTING CLIPS SHALL BE ATTACHED TO SUPPORTING CLOSURE ANGLE OR CHANNEL WITH A MINIMUM OF TWO SCREWS PER CLIP AND SHALL BE INSTALLED AROUND THE ENTIRE CEILING PERIMETER.
   d. IN EACH ORTHOGONAL HORIZONTAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE, CHANNEL, OR PERIMETER SUPPORTING CLIP. THE OTHER END OF THE CILING GRID IN EACH HORIZONTAL DIRECTION SHALL HAVE A MIN. 0.75-in CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON A CLOSURE ANGLE, CHANNEL, OR PERIMETER SUPPORTING CLIP.
   e. CEILING AREAS OVER 2500 SQ.FT MUST HAVE SEISMIC SEPARATION JOINTS OR FULL HEIGHT PARTITIONS.
   f. CEILING WITHOUT RIGID BRACING MUST HAVE 2" OVERSIZE TRIME RINGS FOR SPRINKLERS AND OTHER CEILING PENETRATIONS.

KEYNOTES

- 5.1 HSS COLUMN - PRIME & PAINT - S.S.D.
- 5.2 HSS BEAM - PRIME & PAINT - S.S.D.
- 5.3 HSS RIDGE BEAM - PRIME & PAINT - S.S.D.
- 5.6 STEEL PLATE WITH PANPRINT CUT OUT PER ARCHITECT. FINISH TO BE OGM K5 FINISH - COLOR TO BE SELECTED BY ARCHITECT.
- 5.8 METAL ACCESS LADDER - PRE-FINISHED. INSTALLED TO MEET ALL REQUIREMENTS SPECIFIED BY THE 2025 CMC 304.3.1.1 AND 304.3.2
- 5.10 PRE-MANUF. ALUMINUM SUN SHADE CANOPY W/ INTEGRAL GUTTER & TIE-BACKS.
- 7.8 GSM BEVELED GUTTER - PRIME & PAINT U.O.N.
- 7.25 PREFINISHED GSM RAIN WATER LEADER CONNECT TO STORM DRAIN - COLOR TO MATCH S.S.M.R.
- 8.11 CEILING ACCESS PANEL
- 10.14 WALL MOUNTED WAYFINDING SIGNAGE
- 10.20 CEILING MOUNTED WAYFINDING SIGNAGE

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REFLECTED CEILING PLAN

A4.00

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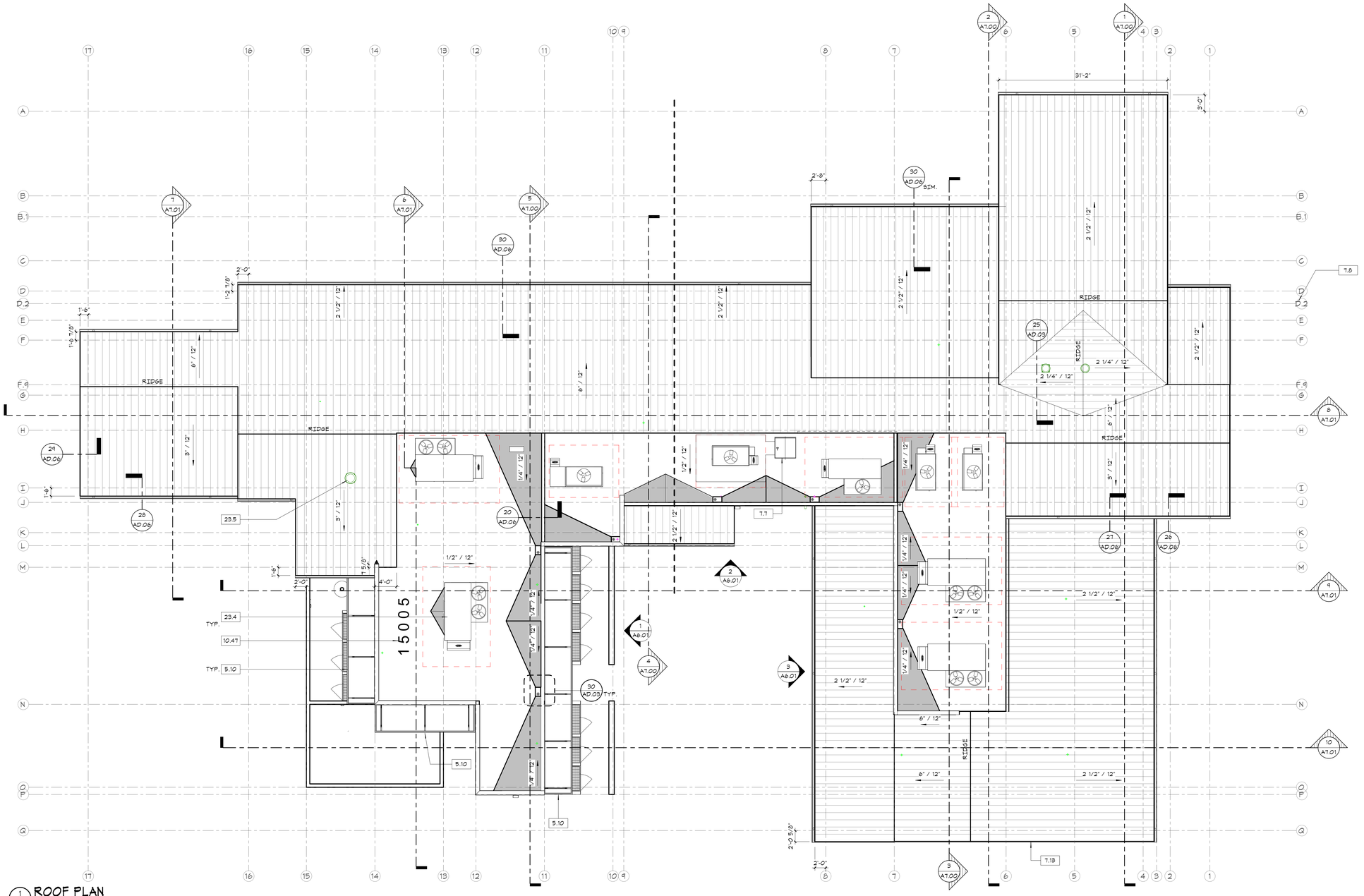

1 A5.00 ROOF PLAN
1/8" = 1'-0"

LEGEND

- STANDING SEAM METAL ROOF
- SINGLE PLY ROOF MEMBRANE
- SINGLE PLY ROOF MEMBRANE OV. TAPERED INSULATION CRICKET
- SPOT ELEVATION
- ROOF WALK PAD 30" WIDE - TYP.

GENERAL NOTES

1. PROVIDE 26 GA. G.I. FLASHING AT ALL VALLEY, ROOF TO WALL TO HIP CONDITIONS. ALL ROOF PENETRATIONS SHALL RECEIVE A 26 GA. ROOF SAFE SET IN MASTIC.
2. CONTRACTOR TO PROVIDE ALL ROOF PENETRATIONS CURBS AND FLASHING FOR MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS AS REQUIRED.
3. PROVIDE ROOF WALK PADS TO ALL ROOF TOP MOUNTED EQUIPMENT.
4. DEFERRED SUBMITTAL: CONTRACTOR TO PROVIDE MANUFACTURERS TECHNICAL DATA FOR ALL VENT DEVICES (ATTIC/SOFFIT) TO ARCHITECT FOR APPROVAL BEFORE INSTALLATION.
5. PROVIDE NET FREE VENTILATION AREA EQUAL TO A MIN. OF 1 SQ. FT. OF NET FREE VENTILATION PER EACH 300 SQ. FT. OF ALL ENCLOSED ATTIC SPACES.

KEYNOTES

5.10	PRE-MANUF. ALUMINUM SUN SHADE CANOPY W/ INTEGRAL GUTTER & TIE-BACKS.
7.7	ROOF ACCESS HATCH TYPE S 36"X30" W/ INTEGRAL SAFETY RAILING SYSTEM
7.8	GSM BEVELED GUTTER - PRIME & PAINT U.O.N.
7.13	GSM FASCIA PRE-FINISHED - COLOR TO MATCH STANDING SEAM ROOF PANEL.
10.47	ROOFTOP ADDRESS, THE NUMBERS SHOULD BE AT LEAST 3 FEET TALL, 2 FEET WIDE, 9 INCHES APART, WITH A 6-INCH BRUSHSTROKE WITH A COLOR THAT CONTRAST THE ROOF TOP. THE TOP OF THE NUMBERS SHOULD POINT NORTH
23.4	ROOF TOP MOUNTED MECHANICAL EQUIPMENT - S.M.D.
23.5	EXHAUST FAN SMD

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OVERALL ROOF PLAN

A5.00

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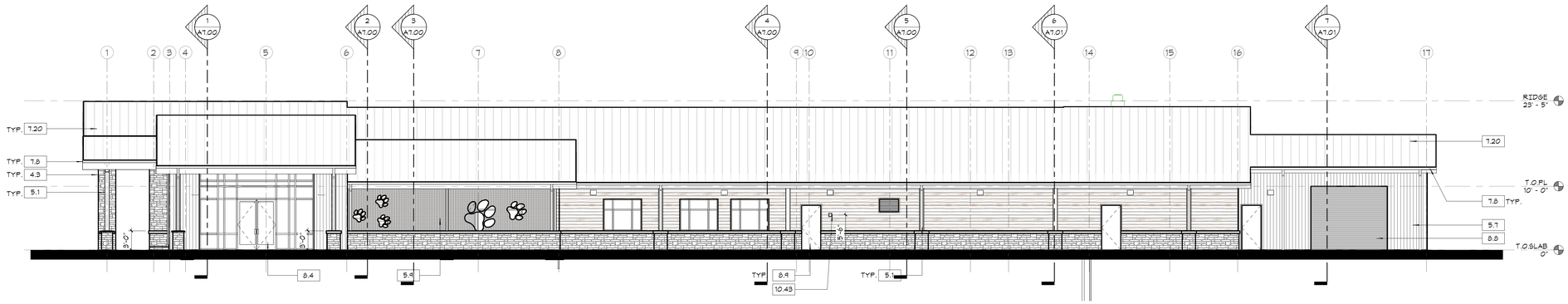
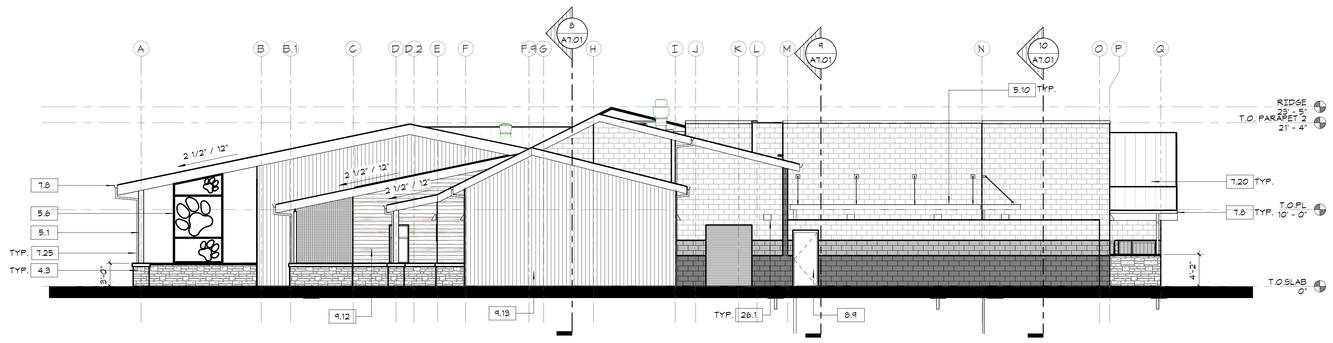
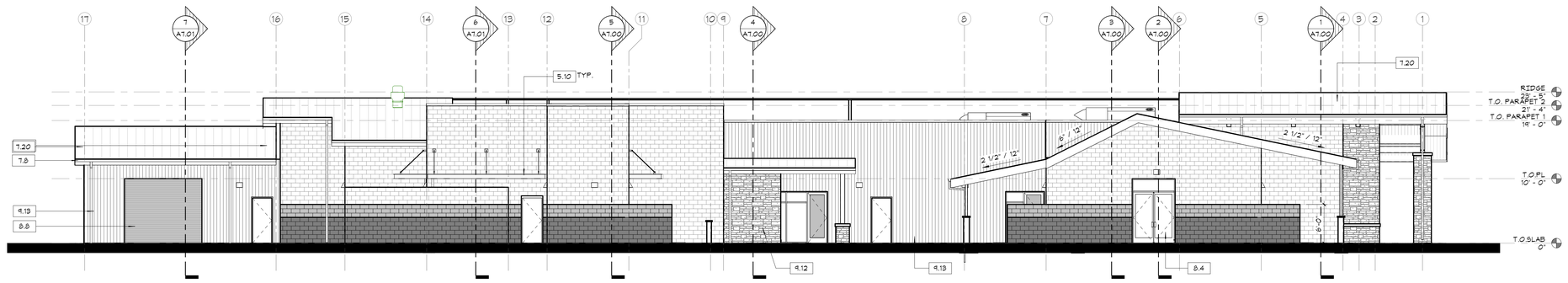
1 EXTERIOR ELEVATION - SOUTH
A6.00 — 1/8" = 1'-0"



2 EXTERIOR ELEVATION - EAST
A6.00 — 1/8" = 1'-0"



3 EXTERIOR ELEVATION - NORTH
A6.00 — 1/8" = 1'-0"



4 EXTERIOR ELEVATION - WEST
A6.00 — 1/8" = 1'-0"

MATERIALS LEGEND

- AEP SPAN - STANDING SEAM METAL ROOFING
  COLOR: COOL SLATE GRAY
- AEP SPAN - SELECT SEAM METAL SIDING
  COLOR: ZINC GRAY
- CSI STONE - PANGAEA NATURAL STONE
  COLOR: TERRAIN LEDGESTONE CAMBRIAN
- STEEL PLATE WITH CUSTOM PERFORATION
  COLOR: OCM K-5 AGED COPPER
- TRESPA PURA NFC
  COLOR: AGED ASH
- CMU - VARYING COLORS AND FINISHES SELECTED BY ARCHITECT

KEYNOTES

4.3	STONE VENEER
4.4	PRECAST STONE CAP
4.5	STONE VENEER CLADDING & PRECAST CONCRETE CAP OV. HSS COLUMN
5.1	HSS COLUMN - PRIME & PAINT - S.S.D.
5.6	STEEL PLATE WITH PAWPRINT CUT OUT PER ARCHITECT. FINISH TO BE OCM K5 FINISH - COLOR TO BE SELECTED BY ARCHITECT
5.7	METAL SIDING
5.9	CUSTOM CUT PERFORATED METAL ENCLOSURE WITH GRID WIRE SECURITY PANELS - OCM K5 FINISH COLOR SELECTED BY ARCHITECT
5.10	PRE-MANUF. ALUMINUM SUN SHADE CANOPY W/ INTEGRAL GUTTER & TIE-BACKS.
7.8	GSM BEVELED GUTTER - PRIME & PAINT U.O.N.
7.13	GSM FASCIA PRE-FINISHED - COLOR TO MATCH STANDING SEAM ROOF PANEL.
7.20	STANDING SEAM METAL ROOF - COLOR AS SELECTED BY ARCHITECT.
7.21	METAL PANEL SOFFIT - COLOR AS SELECTED BY ARCHITECT
7.25	PREFINISHED GSM RAIN WATER LEADER CONNECT TO STORM DRAIN - COLOR TO MATCH S.S.M.R.
8.4	ALUMINUM STOREFRONT DOOR - REFER TO DOOR SCHEDULE
8.8	OVERHEAD COILING DOOR - REFER TO DOOR SCHEDULE
8.9	HOLLOW METAL DOOR - REFER TO DOOR SCHEDULE
9.12	PHENOLIC SIDING
9.13	METAL SIDING
10.43	KNOX BOX KEYED FOR LOCAL FIRE PROTECTION DISTRICT, MOUNTED 5'-6" A.F.F. MIN.
26.1	EXTERIOR SURFACE MOUNTED LED LIGHT FIXTURE - S.E.D.

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EXTERIOR ELEVATIONS

A6.00

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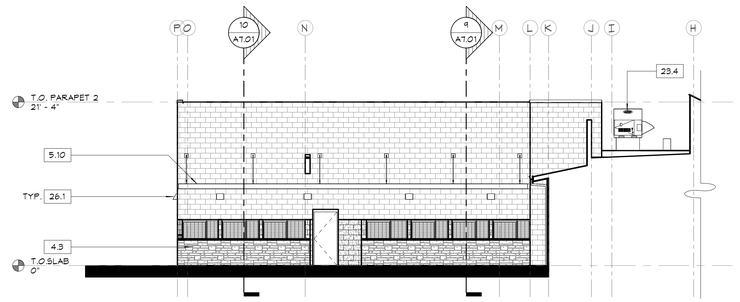
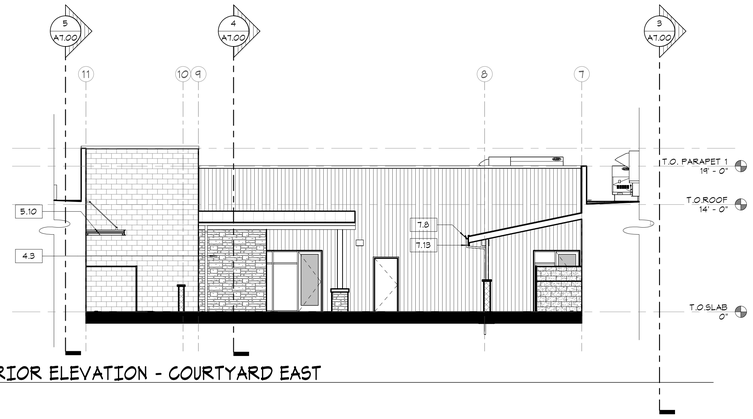
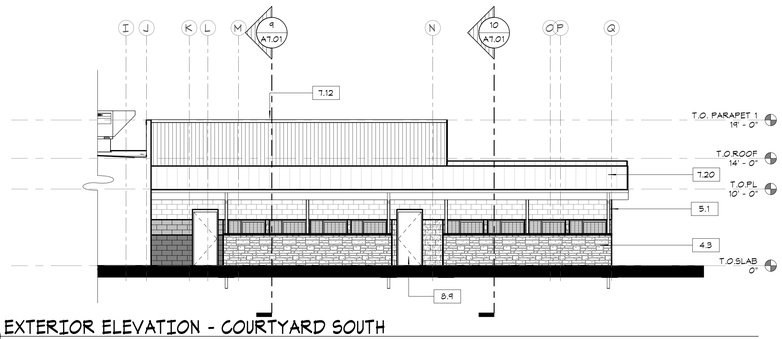


1 A6.01 EXTERIOR ELEVATION - COURTYARD NORTH
1/8" = 1'-0"



2 A6.01 EXTERIOR ELEVATION - COURTYARD EAST
1/8" = 1'-0"



3 A6.01 EXTERIOR ELEVATION - COURTYARD SOUTH
1/8" = 1'-0"

MATERIALS LEGEND

- AEP SPAN - STANDING SEAM METAL ROOFING
  COLOR: COOL SLATE GRAY
- AEP SPAN - SELECT SEAM METAL SIDING
  COLOR: ZINC GRAY
- CSI STONE - PANGAEA NATURAL STONE
  COLOR: TERRAIN LEDGESTONE CAMBRIAN
- STEEL PLATE WITH CUSTOM PERFORATION
  COLOR: OCM K-5 AGED COPPER
- TRESPA PURA NFC
  COLOR: AGED ASH
- CMU - VARYING COLORS AND FINISHES SELECTED BY ARCHITECT

KEYNOTES

4.3	STONE VENEER
5.1	HSS COLUMN - PRIME & PAINT - S.S.D.
5.10	PRE-MANUF. ALUMINUM SUN SHADE CANOPY W/ INTEGRAL GUTTER & TIE-BACKS.
7.8	GSM BEVELED GUTTER - PRIME & PAINT U.O.N.
7.12	GSM PARAPET CAP FLASHING - PRE-FINISHED
7.13	GSM FASCIA PRE-FINISHED - COLOR TO MATCH STANDING SEAM ROOF PANEL.
7.20	STANDING SEAM METAL ROOF - COLOR AS SELECTED BY ARCHITECT.
8.9	HOLLOW METAL DOOR - REFER TO DOOR SCHEDULE
23.4	ROOF TOP MOUNTED MECHANICAL EQUIPMENT - S.M.D.
26.1	EXTERIOR SURFACE MOUNTED LED LIGHT FIXTURE - S.E.D.

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EXTERIOR ELEVATIONS

A6.01

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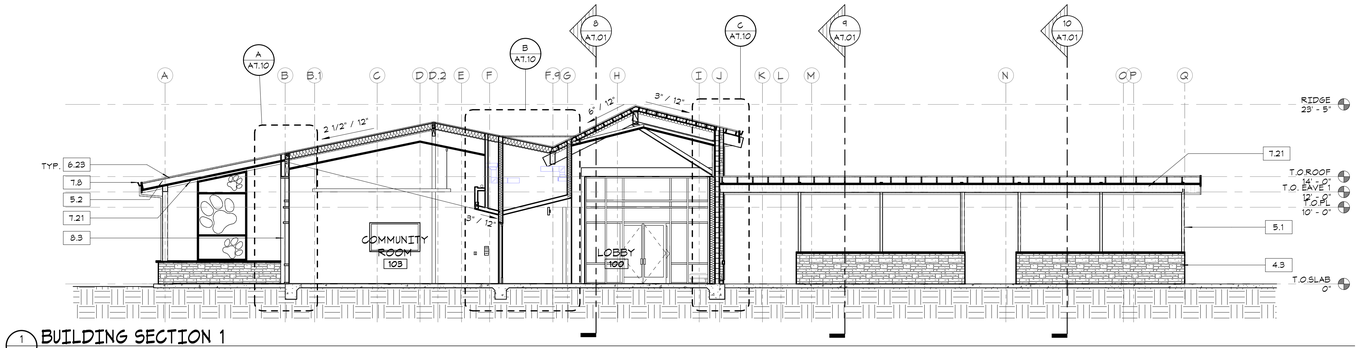
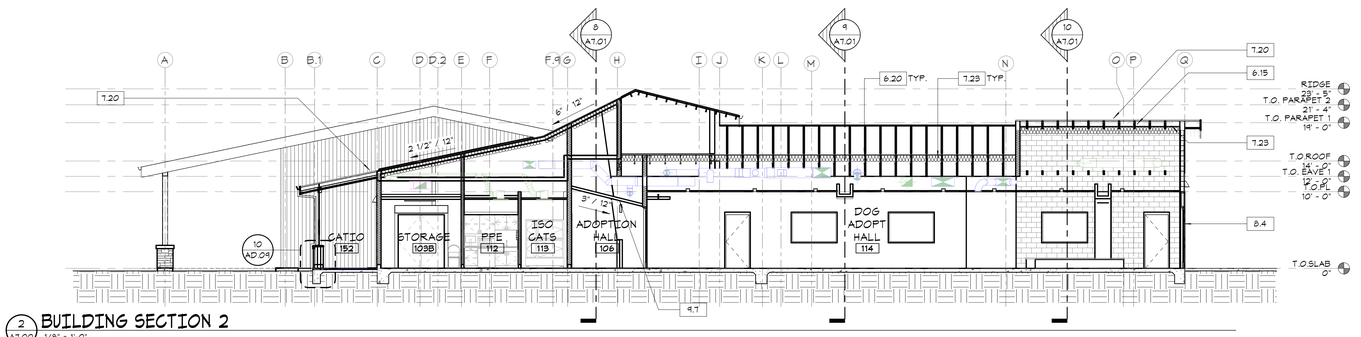
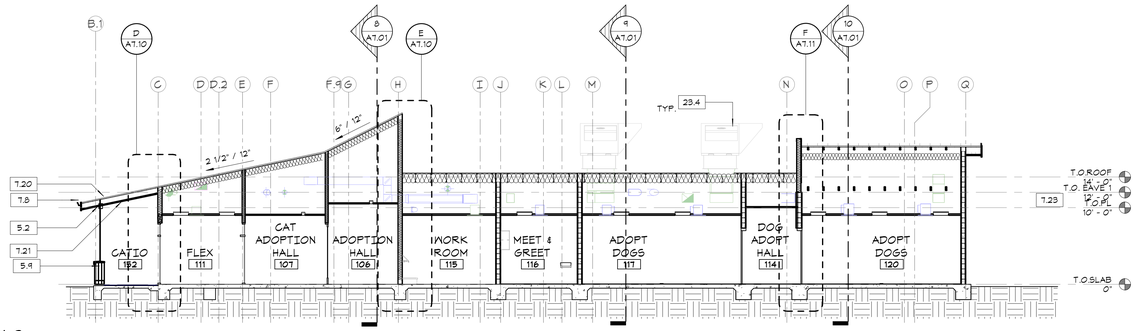


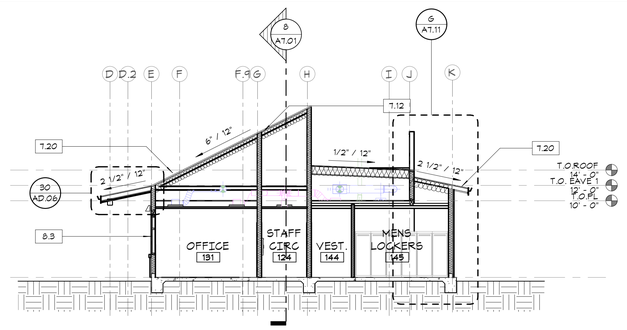
1 A7.00 BUILDING SECTION 1
1/8" = 1'-0"



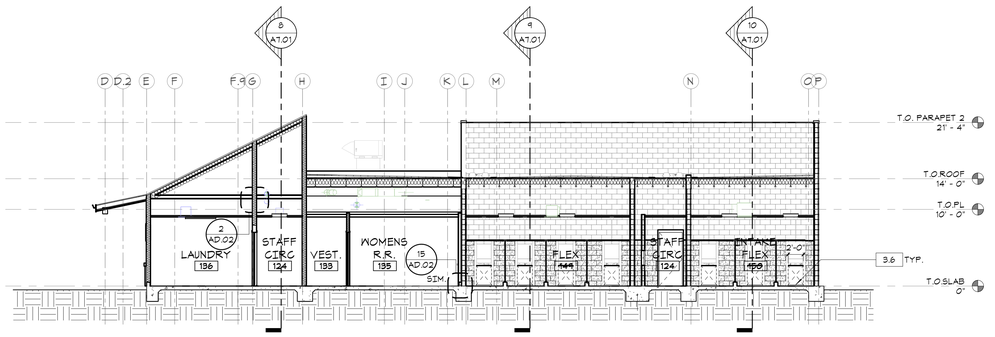
2 A7.00 BUILDING SECTION 2
1/8" = 1'-0"



3 A7.00 BUILDING SECTION 3
1/8" = 1'-0"



4 A7.00 BUILDING SECTION 4
1/8" = 1'-0"



5 A7.00 BUILDING SECTION 5
1/8" = 1'-0"

KEYNOTES

3.6	2" HIGH CONC. CURB - TYP. AT KENNEL OPENINGS
4.3	STONE VENEER
5.1	HSS COLUMN - PRIME & PAINT - S.S.D.
5.2	HSS BEAM - PRIME & PAINT - S.S.D.
5.9	CUSTOM CUT PERFORATED METAL ENCLOSURE WITH GRID WIRE SECURITY PANELS. - OGM KS FINISH COLOR SELECTED BY ARCHITECT
6.15	WD. ROOF FRAMING - S.S.D.
6.20	MANUF. ENG. ROOF TRUSSES - S.S.D.
6.23	2X ROOF FRAMING - S.S.D.
7.8	GSM BEVELED GUTTER - PRIME & PAINT U.O.N.
7.12	GSM PARAPET CAP FLASHING - PRE-FINISHED
7.20	STANDING SEAM METAL ROOF - COLOR AS SELECTED BY ARCHITECT.
7.21	METAL PANEL SOFFIT - COLOR AS SELECTED BY ARCHITECT
7.23	R-30 KRAFT FACED BATT INSULATION
8.3	ALUMINUM STOREFRONT SYSTEM - REFER TO STOREFRONT SCHEDULE
8.4	ALUMINUM STOREFRONT DOOR - REFER TO DOOR SCHEDULE
9.7	5/8" GYPSUM BOARD CEILING - REFER TO FINISH SCHEDULE
23.4	ROOF TOP MOUNTED MECHANICAL EQUIPMENT - S.M.D.

LDA DESIGNERS & ARCHITECTS

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Designers & Architects
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LICENSED ARCHITECT
C28388
September 2027
STATE OF CALIFORNIA

Client:
CITY OF LATHROP
390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/2026

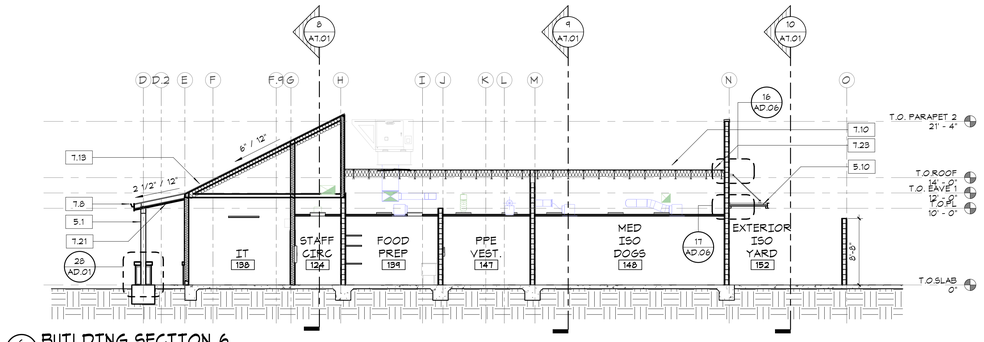
BUILDING SECTIONS

A7.00

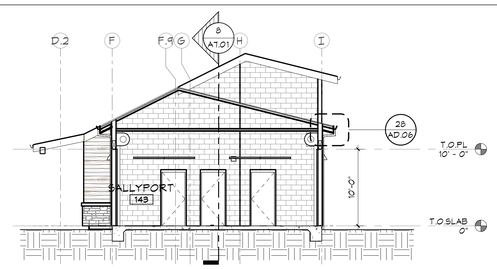
6/23/2026 3:59:01 PM

KEYNOTES

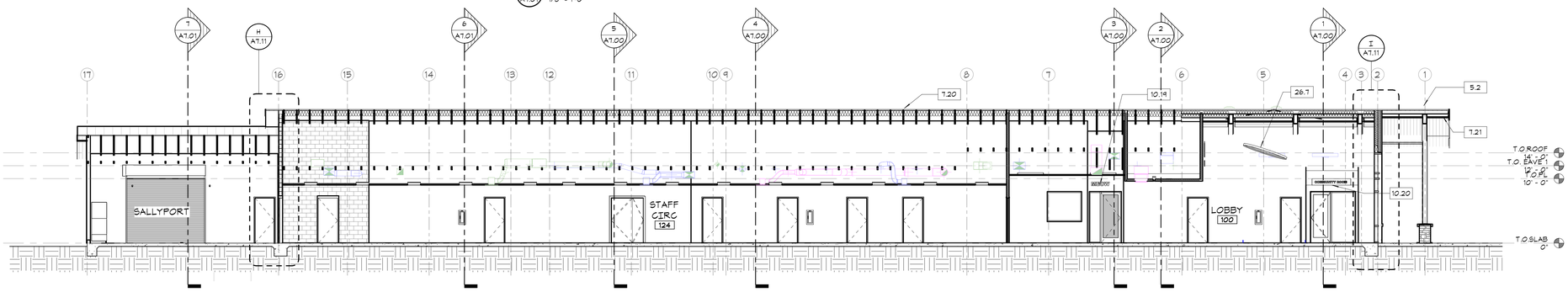
5.1	HSS COLUMN - PRIME & PAINT - S.S.D.
5.2	HSS BEAM - PRIME & PAINT - S.S.D.
5.10	PRE-MANUF. ALUMINUM SUN SHADE CANOPY W/ INTEGRAL GUTTER & TIE-BACKS.
7.8	GSM BEVELED GUTTER - PRIME & PAINT U.O.N.
7.10	SINGLE-PLY ROOFING MEMBRANE
7.13	GSM FASCIA PRE-FINISHED - COLOR TO MATCH STANDING SEAM ROOF PANEL.
7.20	STANDING SEAM METAL ROOF - COLOR AS SELECTED BY ARCHITECT.
7.21	METAL PANEL SOFFIT - COLOR AS SELECTED BY ARCHITECT
7.23	R-30 KRAFT FACED BATT INSULATION
10.19	WALL MOUNTED WAYFINDING SIGNAGE
10.20	CEILING MOUNTED WAYFINDING SIGNAGE
26.7	PENDANT LIGHT, S.E.D.



6 A7.01 BUILDING SECTION 6
1/8" = 1'-0"



7 A7.01 BUILDING SECTION 7
1/8" = 1'-0"



8 A7.01 BUILDING SECTION 8
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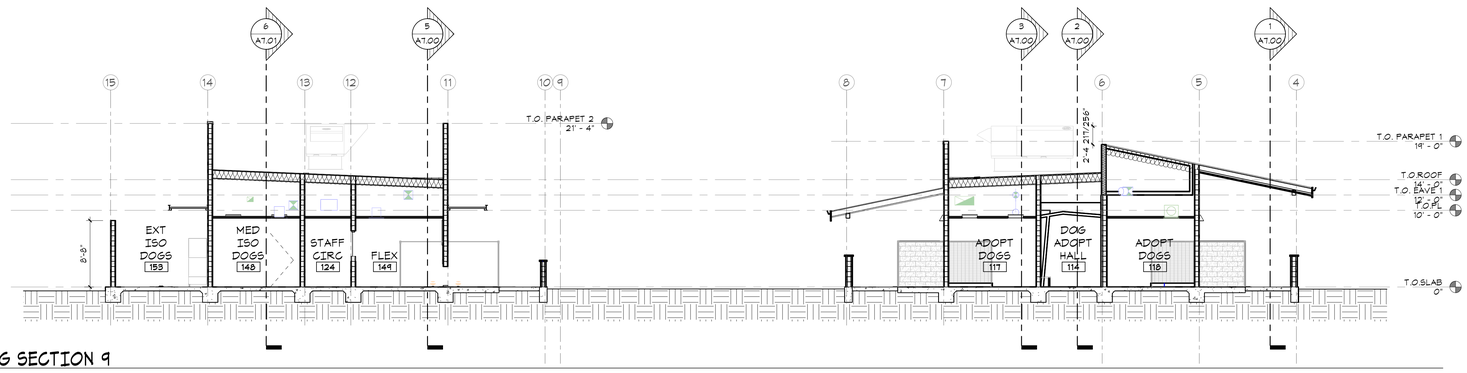

9 A7.01 BUILDING SECTION 9
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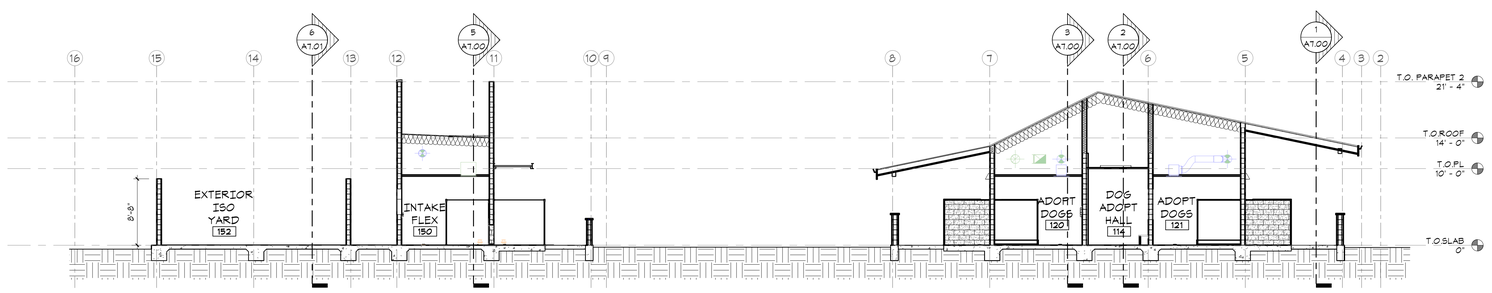

10 A7.01 BUILDING SECTION 10
1/8" = 1'-0"

LDA DESIGNERS & ARCHITECTS

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LICENSED ARCHITECT
CHRISTOPHER WILLIAM WEBB
C28388
September 2027
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Client:
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390 Towne Center Dr.
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209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
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No.	Description	Date	By

BID SET
6/23/2026

BUILDING SECTIONS

A7.01

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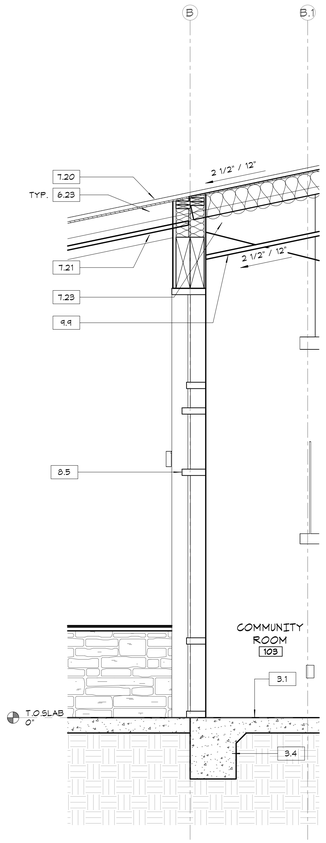
KEYNOTES

3.1	CONCRETE SLAB - S.S.D.
3.4	CONCRETE FOOTING - S.S.D.
3.7	6" HIGH CONC. CURB - S.S.D.
5.2	HSS BEAM - PRIME & PAINT - S.S.D.
6.20	MANUF. ENG. ROOF TRUSSES - S.S.D.
6.23	2X ROOF FRAMING - S.S.D.
7.8	GSM BEVELED GUTTER - PRIME & PAINT U.O.N.
7.10	SINGLE-PLY ROOFING MEMBRANE
7.20	STANDING SEAM METAL ROOF - COLOR AS SELECTED BY ARCHITECT.
7.21	METAL PANEL SOFFIT - COLOR AS SELECTED BY ARCHITECT
7.23	R-30 KRAFT FACED BATT INSULATION
7.24	SOUND ATTENUATION BATT. INSUL. CONT. TO ROOF DECK
8.3	ALUMINUM STOREFRONT SYSTEM - REFER TO STOREFRONT SCHEDULE
8.4	ALUMINUM STOREFRONT DOOR - REFER TO DOOR SCHEDULE
8.5	CURTAINWALL SYSTEM - DUAL GLAZED - REFER TO STOREFRONT SCHEDULE
9.2	5/8" GYPSUM BOARD - REFER TO FINISH SCHEDULE
9.7	5/8" GYPSUM BOARD CEILING - REFER TO FINISH SCHEDULE
9.8	2X2' ACOUSTICAL PANEL SUSPENDED CEILING SYSTEM - REFER TO FINISH SCHEDULE
9.9	METAL LAY-IN ACOUSTICAL CEILING - REFER TO FINISH SCHEDULE
9.12	PHENOLIC SIDING
9.14	3-COAT 7/8" CEMENT PLASTER O/ 1 LAYER OF 3CH GRADE 'D' ASPHALT SATURATED BUILDING PAPER BACKED WITH GALVANIZED SELF-FURRING DIMPLE METAL LATH O/ 1/2" PLYWOOD SHEATHING
23.3	DUCT WORK - S.M.D.
23.7	LINEAR DIFFUSER, S.M.D.
26.5	2' X 2' LAY-IN LIGHT FIXTURE - S.E.D.
26.8	COVE LIGHT, S.E.D.



A A7.10 WALL SECTION A
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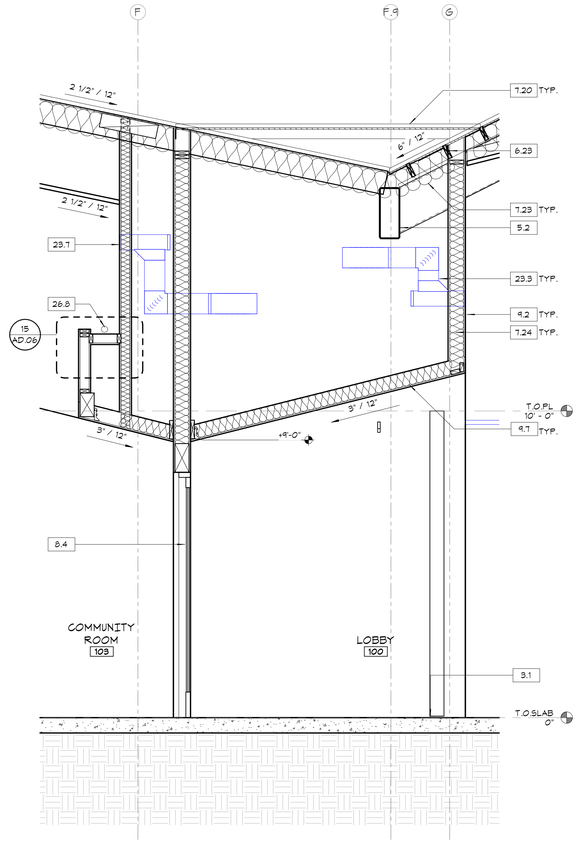
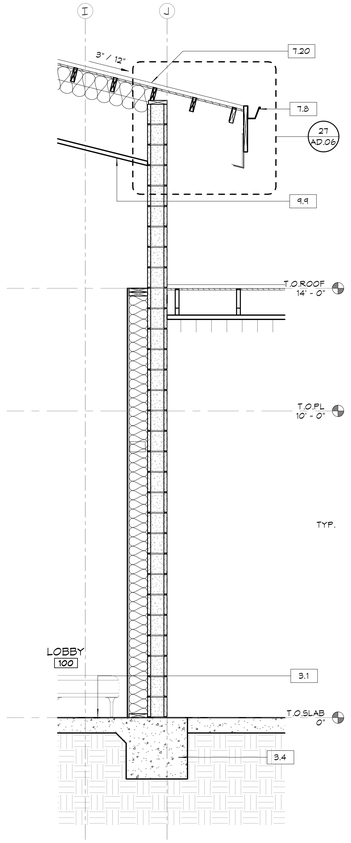
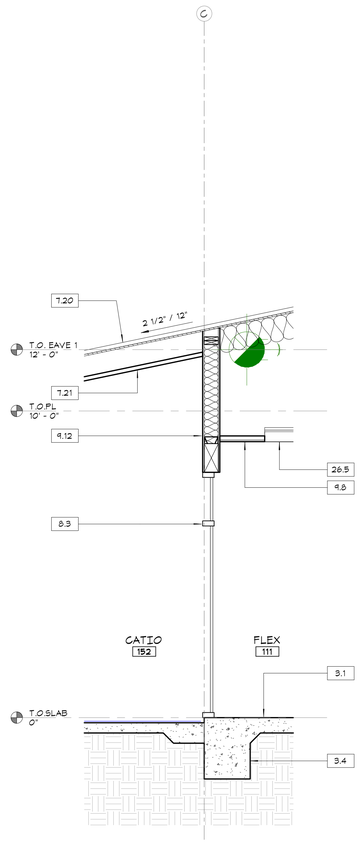


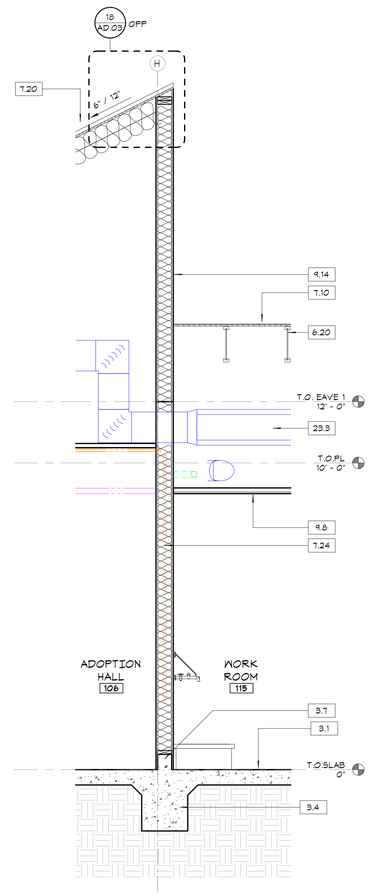
B A7.10 WALL SECTION B
1/2" = 1'-0"



C A7.10 WALL SECTION C
1/2" = 1'-0"



D A7.10 WALL SECTION D
1/2" = 1'-0"



E A7.10 WALL SECTION E
1/2" = 1'-0"

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LICENSED ARCHITECT
C28386
September 2027
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Client:
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390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/2026

WALL SECTIONS

A7.10

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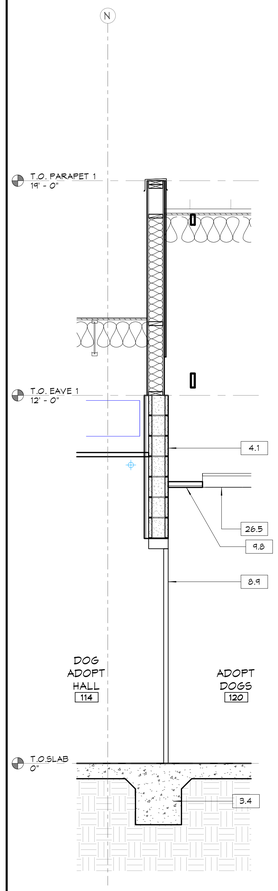
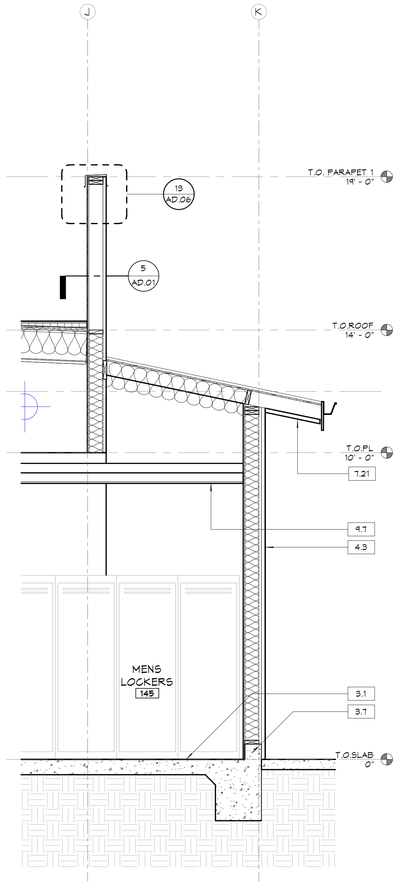
KEYNOTES

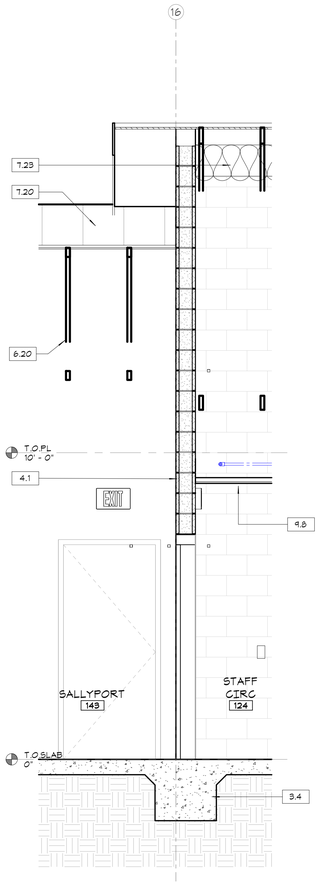
3.1	CONCRETE SLAB - S.S.D.
3.4	CONCRETE FOOTING - S.S.D.
3.6	2" HIGH CONC. CURB - TYP. AT KENNEL OPENINGS
3.7	6" HIGH CONC. CURB - S.S.D.
4.1	8X8X16 CMU
4.3	STONE VENEER
5.10	PRE-MANUF. ALUMINUM SUN SHADE CANOPY W/ INTEGRAL GUTTER & TIE-BACKS.
6.15	WD. ROOF FRAMING - S.S.D.
6.20	MANUF. ENG. ROOF TRUSSES - S.S.D.
6.23	2X ROOF FRAMING - S.S.D.
7.10	SINGLE-PLY ROOFING MEMBRANE
7.12	GSM PARAPET CAP FLASHING - PRE-FINISHED
7.20	STANDING SEAM METAL ROOF - COLOR AS SELECTED BY ARCHITECT.
7.21	METAL PANEL SOFFIT - COLOR AS SELECTED BY ARCHITECT
7.23	R-30 KRAFT FACED BATT INSULATION
8.7	CURTAINWALL SYSTEM - DOUBLE GAZED - REFER TO STOREFRONT SCHEDULE
8.9	HOLLOW METAL DOOR - REFER TO DOOR SCHEDULE
9.7	5/8" GYPSUM BOARD CEILING - REFER TO FINISH SCHEDULE
9.8	2X2' ACOUSTICAL PANEL SUSPENDED CEILING SYSTEM - REFER TO FINISH SCHEDULE
26.1	EXTERIOR SURFACE MOUNTED LED LIGHT FIXTURE - S.E.D.
26.5	2' X 2' LAY-IN LIGHT FIXTURE - S.E.D.



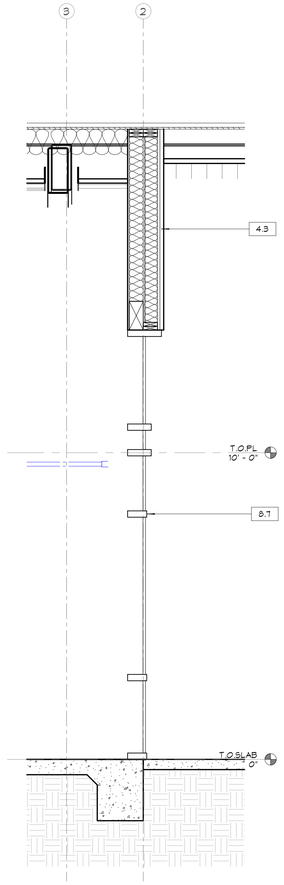
F A7.11 WALL SECTION F
1/2" = 1'-0"



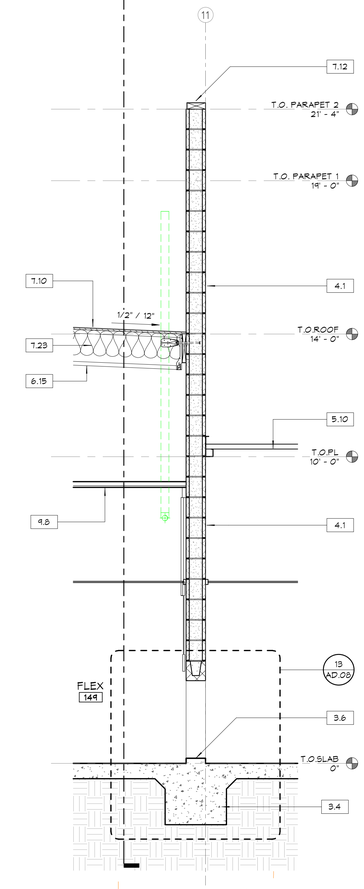
G A7.11 WALL SECTION G
1/2" = 1'-0"



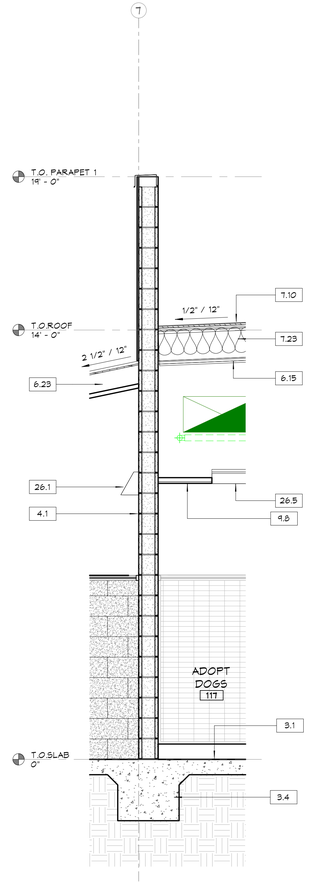
H A7.11 WALL SECTION H
1/2" = 1'-0"



I A7.11 WALL SECTION I
1/2" = 1'-0"



J A7.11 WALL SECTION J
1/2" = 1'-0"



K A7.11 WALL SECTION K
1/2" = 1'-0"

LDA DESIGNERS & ARCHITECTS

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Designers & Architects
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Stockton, CA 95204
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LICENSED ARCHITECT
C28388
September 2027
STATE OF CALIFORNIA

Client:
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390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
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15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
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No.	Description	Date	By

BID SET
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WALL SECTIONS

A7.11

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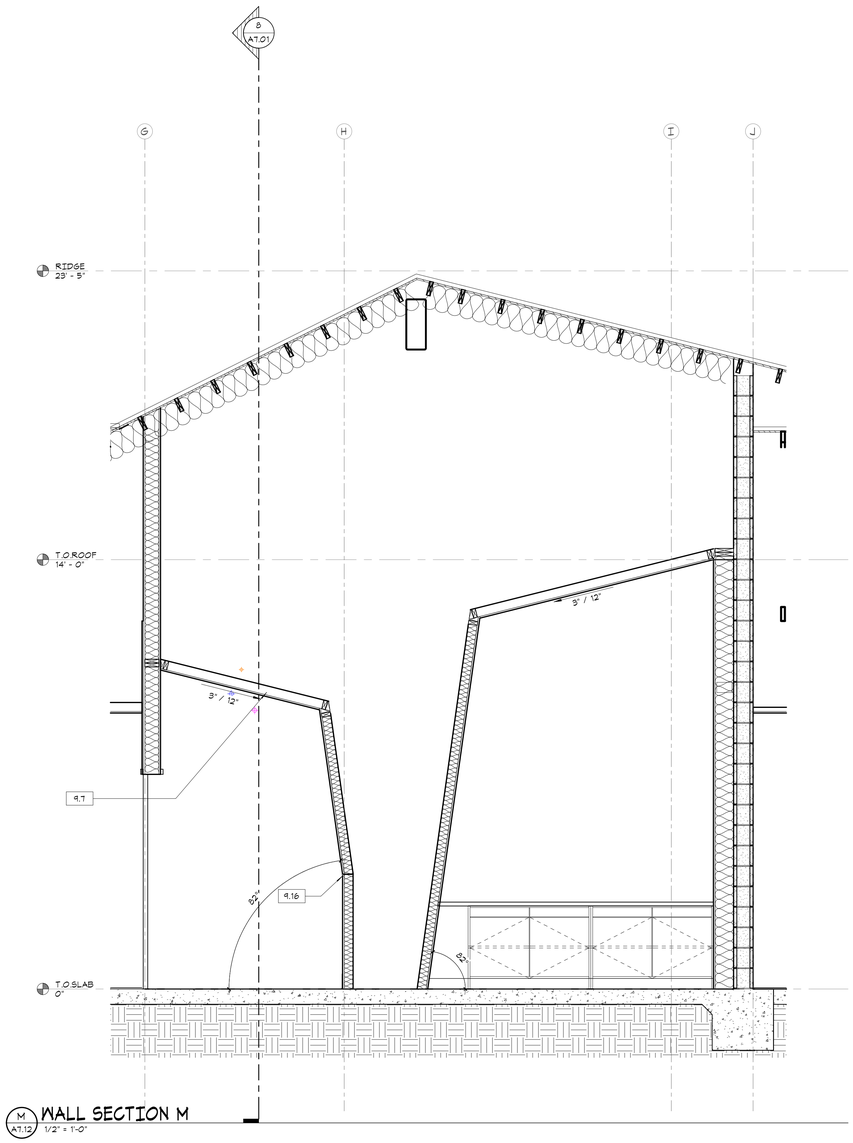
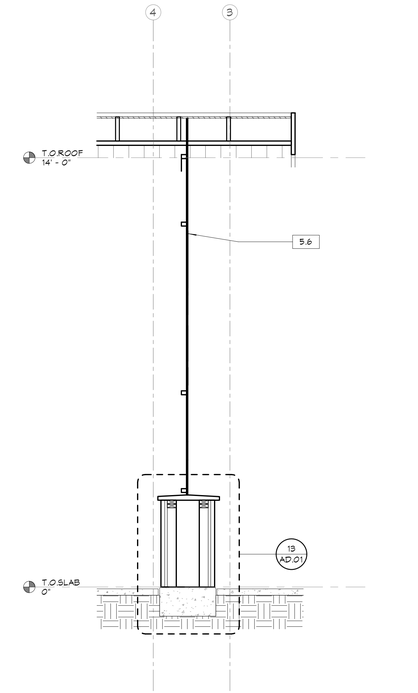
KEYNOTES

5.6	STEEL PLATE WITH PAWPRINT CUT OUT PER ARCHITECT. FINISH TO BE OCM K5 FINISH - COLOR TO BE SELECTED BY ARCHITECT.
9.7	5/8" GYPSUM BOARD CEILING - REFER TO FINISH SCHEDULE
9.16	1/2" GYPSUM REVEAL



M A7.12 WALL SECTION M
1/2" = 1'-0"



L A7.12 WALL SECTION L
1/2" = 1'-0"

LDA
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LICENSED ARCHITECT
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September 2027
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WALL SECTIONS

A7.12

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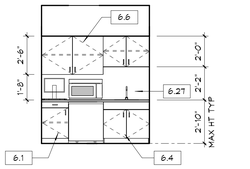
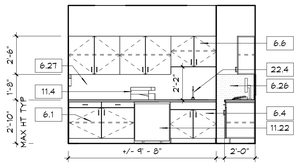
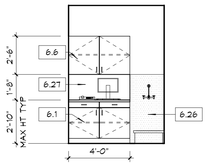


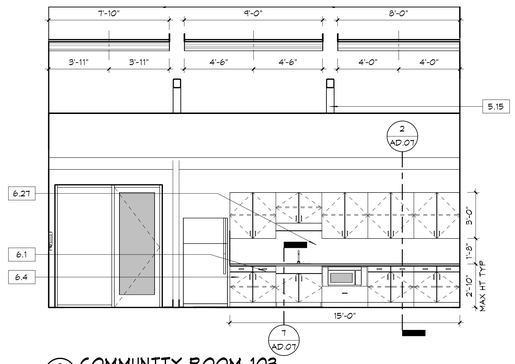
5 A8.00 **PPE 112**
1/4" = 1'-0"



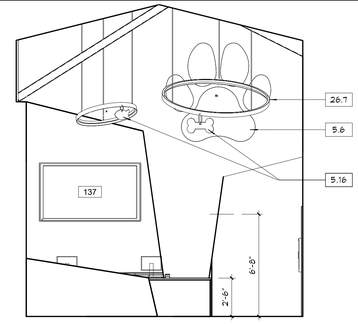
4 A8.00 **WORK ROOM 115 WEST**
1/4" = 1'-0"



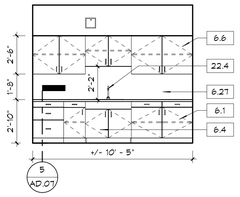
3 A8.00 **WORK ROOM 115 NORTH**
1/4" = 1'-0"



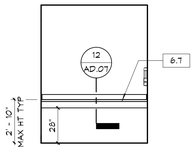
2 A8.00 **COMMUNITY ROOM 103**
1/4" = 1'-0"



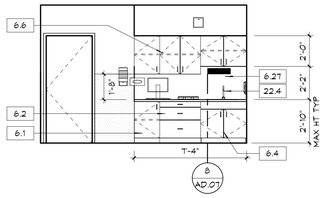
1 A8.00 **LOBBY 100 N.**
1/4" = 1'-0"



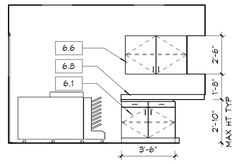
10 A8.00 **ADOPT CATS 112**
1/4" = 1'-0"



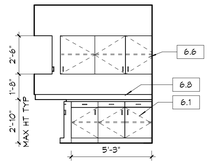
9 A8.00 **SM. MAMMELS 106**
1/4" = 1'-0"



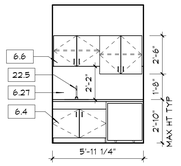
8 A8.00 **INTAKE CATS 109**
1/4" = 1'-0"



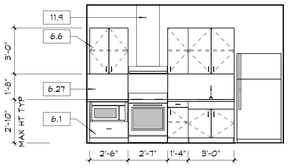
7 A8.00 **FILE/COPY 111**
1/4" = 1'-0"



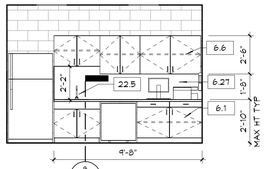
6 A8.00 **FILE/CPY 111**
1/4" = 1'-0"



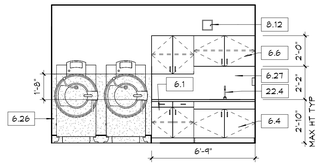
15 A8.00 **WELLNESS 129**
1/4" = 1'-0"



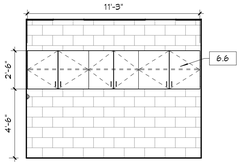
14 A8.00 **BREAKROOM 125**
1/4" = 1'-0"



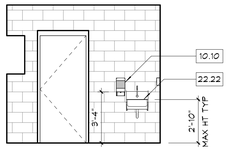
13 A8.00 **INTAKE/GROOMING 142**
1/4" = 1'-0"



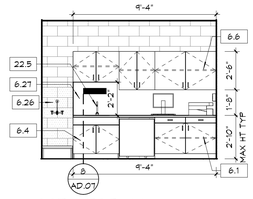
12 A8.00 **LAUNDRY 136**
1/4" = 1'-0"



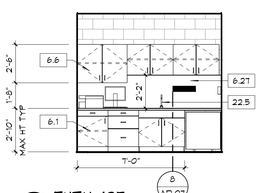
11 A8.00 **MEET & GREET 121 N.**
1/4" = 1'-0"



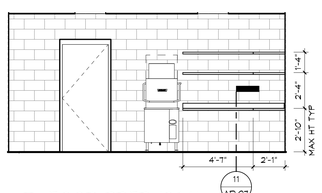
22 A8.00 **MEET & GREET 121 E.**
1/4" = 1'-0"



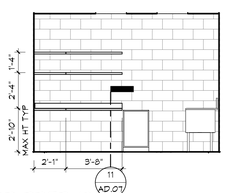
20 A8.00 **PPE VEST. 147**
1/4" = 1'-0"



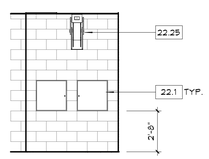
19 A8.00 **EUTH 135**
1/4" = 1'-0"



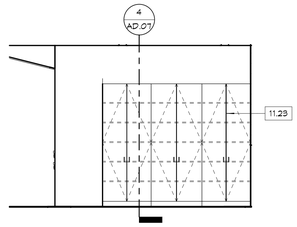
18 A8.00 **FOOD PREP 139 N.**
1/4" = 1'-0"



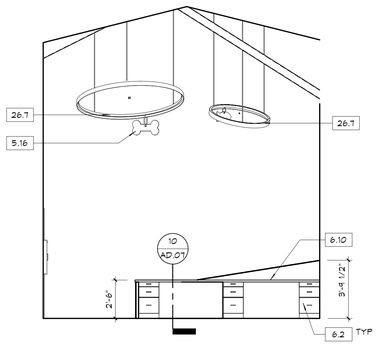
17 A8.00 **FOOD PREP 139 E.**
1/4" = 1'-0"



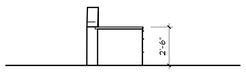
21 A8.00 **FLUSH VALVE ACCESS PANEL**
1/4" = 1'-0"



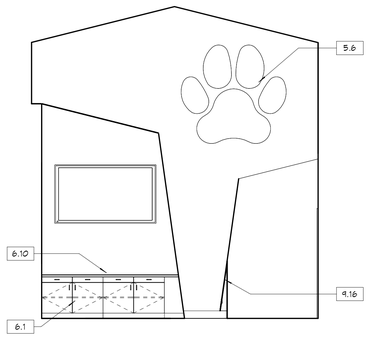
16 A8.00 **ADOPTION HALLWAY - SOUTH**
1/4" = 1'-0"



23 A8.00 **RECPT. 102 W.**
1/4" = 1'-0"



24 A8.00 **LOBBY 100 E.**
1/4" = 1'-0"



25 A8.00 **RECEPTION 102 N.**
1/4" = 1'-0"

KEYNOTES

5.6	STEEL PLATE WITH PAWPRINT CUT OUT PER ARCHITECT. FINISH TO BE OCM K5 FINISH - COLOR TO BE SELECTED BY ARCHITECT.
5.15	DECORATIVE HSS S.S.D.
5.16	SHEET METAL COLLAR TAG CLIPPED TO LIGHT WITH CLIPPING SYSTEM. COLOR / SHAPE SELECTED BY ARCHITECT
6.1	P. LAM FACED BASE CABINET WITH DOORS AND ADJ. SHELVES
6.2	P. LAM FACED BASE CABINET WITH DRAWERS
6.4	P. LAM FACED SINK CABINET WITH DOORS
6.6	P. LAM FACED UPPER CABINET WITH DOORS AND ADJ. SHELVES
6.7	SOLID SURFACE COUNTERTOP WITH APRON AND 4" BACKSPLASH @ BACK AND SIDES - TOP @ 2'-10" A.F.F.
6.8	SOLID SURFACE COUNTERTOP TOP @ 2 -10 A.F.F.
6.10	SOLID SURFACE COUNTERTOP. SEE ELEVATION FOR HGT.
6.26	FRP WAINSCOT
6.27	STAINLESS STEEL COUNTERTOP AND FULL HT BACKSPLASH @ BACK AND SIDE - TOP @ 2'-10" A.F.F.
8.12	WALL ACCESS PANEL FOR TRAP PRIMER
9.16	1/2" GYPSUM REVEAL
10.10	SOAP DISPENSER, WALL MOUNTED, MOUNT CENTER OF CONTROLS @ 40" HT. A.F.F.
11.4	COPIER PRINTER- SCANNER - N.I.C.
11.9	COOKTOP WITH VENTILATION HOOD, S.M.P.
11.22	UNDERCOUNTER REFRIDGERATOR.
11.23	FULL HEIGHT CASEWORK WITH LOCKS
22.1	FLUSH VALVE METAL ACCESS PANEL
22.4	UNDERMOUNT S.S. TWO COMPARTMENT S.S. SINK
22.5	UNDERMOUNT SINK - S.P.D.
22.22	HANDWASH SINK - S.P.D.
22.25	WALL MOUNTED HOSE REEL - S.P.D.
26.7	PENDANT LIGHT, S.E.D.

LDA
DESIGNERS & ARCHITECTS

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LICENSED ARCHITECT
C28388
September 2027
STATE OF CALIFORNIA

Client:
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Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

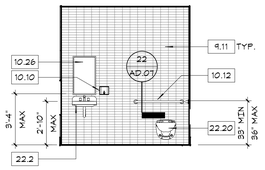
No.	Description	Date	By

BID SET
6/23/2026

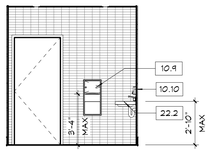
INTERIOR ELEVATIONS

A8.00

6/23/2026 3:09:13 PM



6 A8.01 TYP. RR 104 W.
1/4" = 1'-0"



5 A8.01 TYP. RR 104 S.
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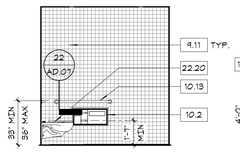
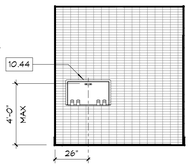
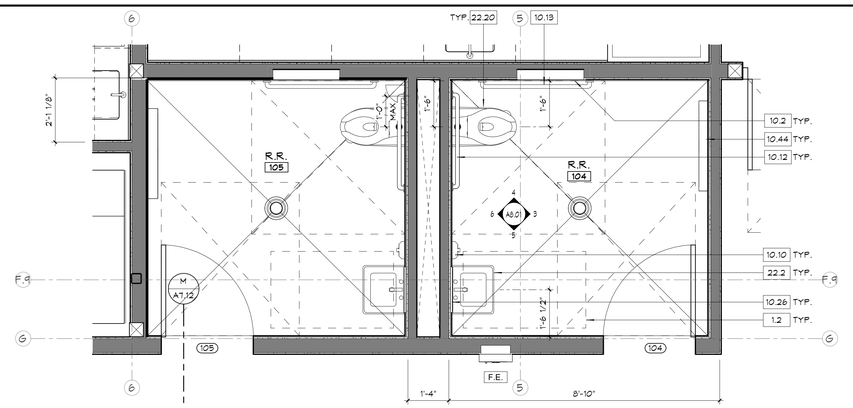


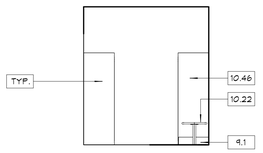
4 A8.01 TYP. RR 104 N.
1/4" = 1'-0"



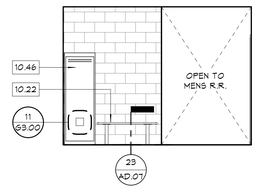
3 A8.01 TYP. RR 104 E.
1/4" = 1'-0"



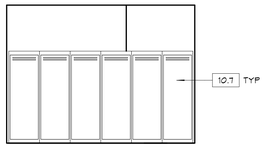
1 A8.01 ENLARGED RESTROOM PLAN'
1/2" = 1'-0"



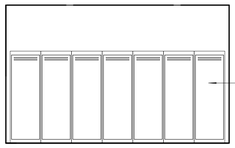
7 A8.01 MEN'S LOCKER WEST
1/4" = 1'-0"



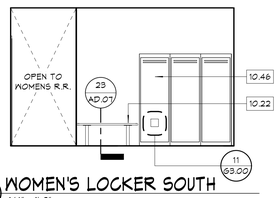
8 A8.01 MEN'S LOCKER NORTH
1/4" = 1'-0"



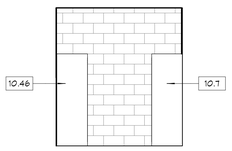
9 A8.01 MEN'S LOCKER SOUTH
1/4" = 1'-0"



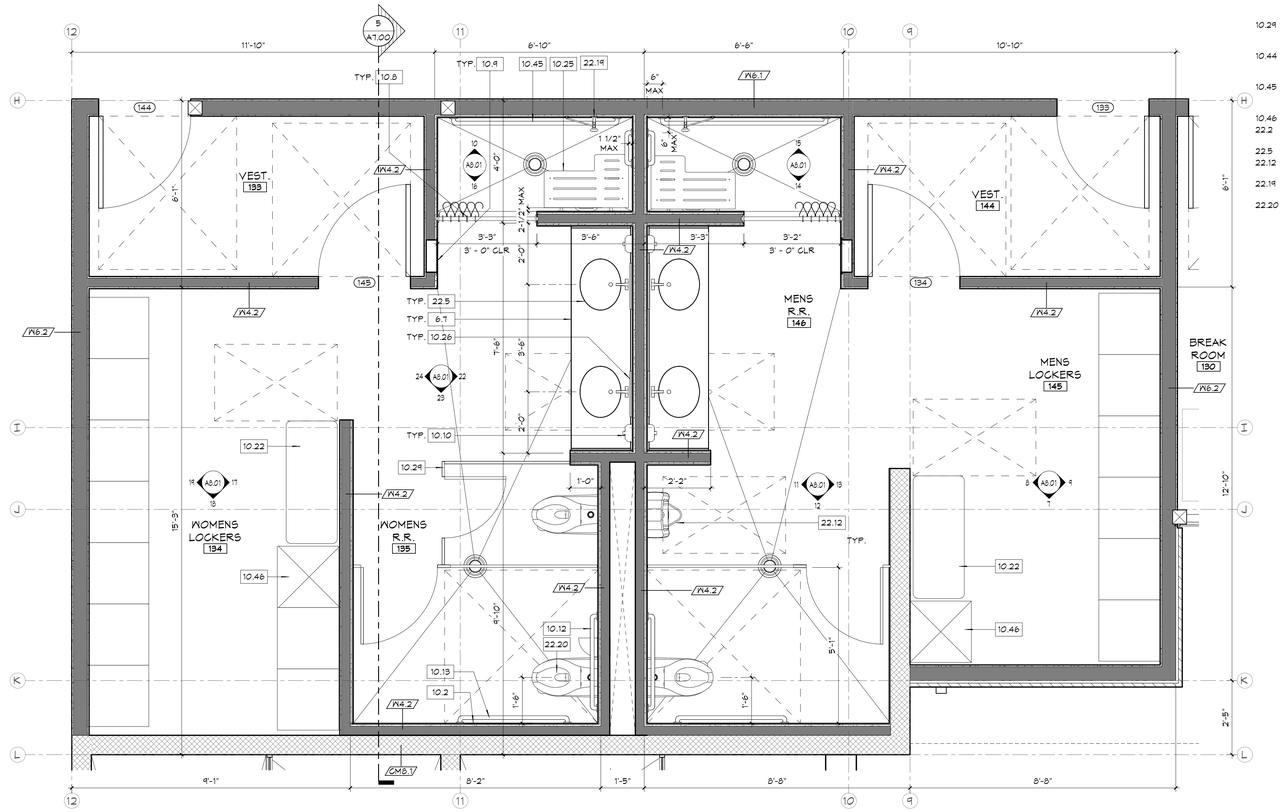
19 A8.01 WOMEN'S LOCKER NORTH
1/4" = 1'-0"



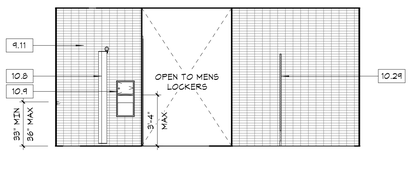
17 A8.01 WOMEN'S LOCKER SOUTH
1/4" = 1'-0"



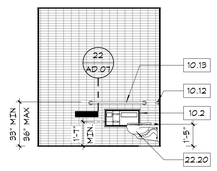
18 A8.01 WOMEN'S LOCKER WEST
1/4" = 1'-0"



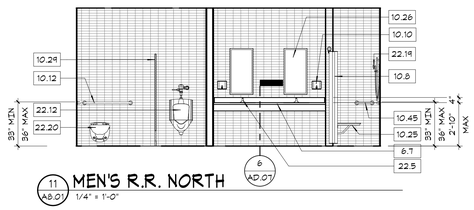
2 A8.01 ENLARGED MENS/WOMENS LOCKER ROOM & RESTOOM PLAN
1/2" = 1'-0"



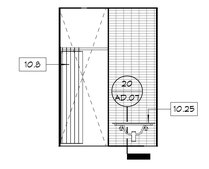
13 A8.01 MEN'S R.R. SOUTH
1/4" = 1'-0"



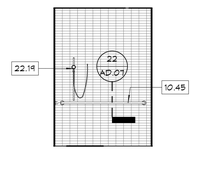
12 A8.01 MEN'S R.R. WEST
1/4" = 1'-0"



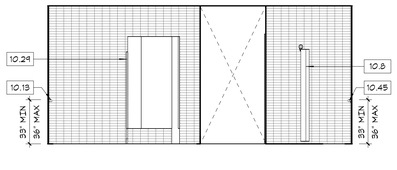
11 A8.01 MEN'S R.R. NORTH
1/4" = 1'-0"



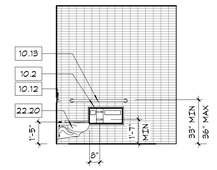
14 A8.01 M. SHOWER WEST
1/4" = 1'-0"



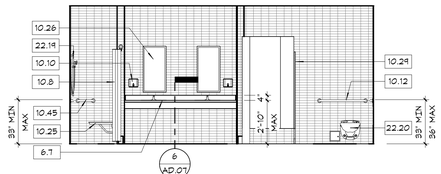
15 A8.01 M. SHOWER EAST
1/4" = 1'-0"



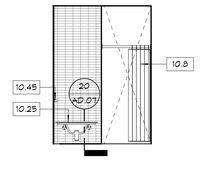
24 A8.01 WOMEN'S R.R. - NORTH
1/4" = 1'-0"



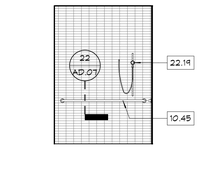
23 A8.01 WOMEN'S R.R. - WEST
1/4" = 1'-0"



22 A8.01 WOMEN'S R.R. - SOUTH
1/4" = 1'-0"



16 A8.01 W. SHOWER WEST
1/4" = 1'-0"



10 A8.01 W. SHOWER EAST
1/4" = 1'-0"

KEYNOTES

1.2	30" X 48" MIN. CLR. FLOOR AREA
6.7	SOLID SURFACE COUNTERTOP WITH APRON AND 4" BACKSPLASH @ BACK AND SIDES - TOP @ 2'-10" A.F.F.
9.1	RUBBER BASE - REFER TO FINISH SCHEDULE
9.11	CERAMIC WALL TILE - REFER TO FINISH SCHEDULE
10.2	RECESSED TOILET TISSUE & PAPER SEAT COVER DISPENSER - MOUNT @ 19" HT. A.F.F. TF TO DISPENSER OUTLET AND T' TO 9" FRONT OF BOWL TO CENTERLINE OF TOILET TISSUE DISPENSER
10.7	24W X 72H X 24D SINGLE STACK METAL LOCKER WITH SHELF, BENCH, AND HOOK; COLOR SELECTED BY ARCHITECT
10.8	S.S. SHOWER CURTAIN ROD AT 6'-5" U.O.N. W/ NON-TRANSLUCENT VINYL SHOWER CURTAIN W/ S.S. CURTAIN RINGS ON S.S. BALL-BEARINGS
10.9	RECESSED PAPER TOWEL DISPENSER WITH WASTE RECEPTACLE BIN - MOUNT DISPENSER OPENING @ +40" A.F.F.
10.10	SOAP DISPENSER, WALL MOUNTED, MOUNT CENTER OF CONTROLS @ 40" HT. A.F.F.
10.12	GRAB BAR 36" MOUNT TOP OF BAR AT 33" - 36" A.F.F.
10.13	GRAB BAR 42" MOUNT TOP OF BAR AT 33" - 36" A.F.F.
10.22	ADA COMPLIANT BENCH SEAT 20" WIDE X 48" LENGTH
10.25	ADA S.S. FOLDING SHOWER SEAT, MOUNT @ 17"- 18" A.F.F.
10.26	18"X 36" MIRROR W/ S.S. FRAME AND GROOMING SHELF - MOUNT @ 40" MAX A.F.F. TO BOTTOM OF REFLECTING SURFACE
10.29	PHENOLIC TOILET COMPARTMENTS W/ 24" WIDE IN-SWING DRS. & BOTT. OF PANELS 12" A.F.F. MAX. - TYP.
10.44	RECESSED BABY CHANGING STATION - MOUNT TO PROVIDE CHANGING SURFACE @ 33" MAX. A.F.F.
10.45	SHOWER GRAB BAR PLACED MAX. 6" FROM ADJACENT WALL MOUNT TOP OF BAR AT 33" - 36" A.F.F.
10.46	ADA COMPLIANT LOCKER
22.2	WALL MOUNTED LAVATORY - MOUNT TOP OF RIM @ 2'-10" A.F.F.
22.5	UNDERMOUNT SINK - S.P.D.
22.12	ACCESSIBLE URINAL MOUNT RIM @ 15" MAX. HT. A.F.F. - S.P.D.
22.19	ACCESSIBLE HANDHELD SHOWER HEAD W/ CONTROLS AND DIVERTER - S.P.D.
22.20	FLOOR MOUNTED WATER CLOSET 17"-18" CENTERLINE TO WALL MOUNT SEAT @ 14" A.F.F. FLUSH ACTIVATOR ON WIDE SIDE - S.P.D.

Architect:
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Designers & Architects
222 Central Court
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www.ldapartners.com

LICENSED ARCHITECT
C28388
September 2027
STATE OF CALIFORNIA

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/2026

INTERIOR ELEVATIONS

A8.01

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FINISH SCHEDULE

NO.	ROOM NAME	FLOOR	BASE	WALLS	CASEWORK: BASE CABINET	CASEWORK: COUNTERTOP	CASEWORK: UPPER CABINET	CEILING	COMMENTS
100	LOBBY	RS-1/2/3	RB-1	P-1/P-2/P-3	PL-3 & PL-4	SSM-2		CLG-8	SEE FINISH FLOOR PLAN FOR RUBBER SHEET LAYOUT
102	RECEPT.	RS-1/2/3	RB-1	P-1/P-2/P-3	PL-3 & PL-4	SSM-2		CLG-8	
103	COMMUNITY ROOM	RS-1/2/3	RB-1	P-1/P-2/P-3/P-4	PL-3	SSM-1		CLG-8	SEE FINISH FLOOR PLAN FOR RUBBER SHEET LAYOUT
103B	STORAGE	RS-1	RB-1	P-1				CLG-1	
104	R.R.	CT-1	SH-1	CT-2/3/4/5				CLG-7	SEE INTERIOR ELEVATIONS FOR TILE PATTERN
105	R.R.	CT-1	SH-1	CT-2/3/4/5				CLG-7	SEE INTERIOR ELEVATIONS FOR TILE PATTERN
106	ADOPTION HALL	RS-1/4	RB-1	P-1/P-3				CLG-7/8	
107	CAT ADOPTION HALL	RS-1/4	RB-1	P-1/P-2				CLG-8	
108	SM MAMMALS	EP-1	EP-1	HPG				CLG-10	
109	INTAKE CATS	EP-1	EP-1	FRP-1/HPG	PL-1	SS-1	PL-2	CLG-10	
110	ADOPT CATS	EP-1	EP-1	HPG	PL-1	SSM-1	PL-2	CLG-6	
111	FLEX	EP-1	EP-1	HPG				CLG-6	
112	PPE	SV-1	RB-1	FRP-1/HPG	PL-3	SS-1	PL-4	CLG-6	
113	ISO CATS	EP-1	EP-1	HPG				CLG-6	
114	DOG ADOPT HALL	RS-1/4	RB-1	P-1/P-2				CLG-8	
115	WORK ROOM	SV-1	RB-1	FRP-1/HPG	PL-3	SSM-1	PL-4	CLG-2	
116	MEET & GREET	EP-1	EP-1	ERG-1/HPG				CLG-1	
117	ADOPT DOGS	EP-1	EP-1	ERG-1/HPG				CLG-1	
118	ADOPT DOGS	EP-1	EP-1	ERG-1/HPG				CLG-1	
120	ADOPT DOGS	EP-1	EP-1	ERG-1/HPG				CLG-1	
121	ADOPT DOGS	EP-1	EP-1	ERG-1/HPG				CLG-1	
124	STAFF CIRC.	SV-1/SV-2	RB-1	P-1/P-2/MG-1				CLG-4	SEE FINISH FLOOR PLAN FOR SHEET VINYL LAYOUT
125	FILE/COPY	LVT-1	RB-1	P-1/P-4	PL-1	SSM-1	PL-2	CLG-2	
126	STOR.	SV-1	RB-1	P-1				CLG-4	
127	STAFF/ACO	LVT-1	RB-1	P-1/P-4	PL-1	SSM-1	PL-2	CLG-4	
128	WELLNESS	LVT-1	RB-1	P-1/P-4	PL-1	SSM-1	PL-2	CLG-7	
129	OFFICE	LVT-1	RB-1	P-1/P-4				CLG-2	
130	BREAK ROOM	LVT-1	RB-1	P-1/P-4	PL-1	SSM-1	PL-2	CLG-4	
131	OFFICE	LVT-1	RB-1	P-1/P-4				CLG-4	
132	JAN./MECH.	SV-1	RB-1	P-1/FRP-1				CLG-7	
133	VEST.	LVT-1	RB-1	P-1/P-2				CLG-7	
134	WOMENS LOCKERS	RS-2/CT-1	RB-1/SH-1	P-1/P-2/CT-2/3/4/5		SSM-1		CLG-7	SEE INTERIOR ELEVATIONS FOR TILE PATTERN
135	WOMENS R.R.	RS-2/CT-1	RB-1/SH-1	P-1/P-2/CT-2/3/4/5		SSM-1		CLG-7	SEE INTERIOR ELEVATIONS FOR TILE PATTERN
136	LAUNDRY	EP-1	EP-1	P-1/P-4/FRP-1	PL-1	SS-1	PL-2	CLG-10	
137	LAUNDRY STOR.	EP-1	EP-1	P-1/FRP-1				CLG-7	
138	IT	CONC-1	RB-1	P-1				CLG-7	
139	FOOD PREP	EP-1	EP-1	HPG	PL-1	SS-1	PL-2	CLG-10	
140	FOOD STOR.	CONC-1	RB-1	HPG				CLG-7	
141	EUTH	EP-1	EP-1	FRP-1/HPG	PL-1	SS-1	PL-2	CLG-10	
142	INTAKE/GROOMING	EP-1	EP-1	FRP-1/HPG	PL-1	SS-1	PL-2	CLG-10	
143	SALLYPORT	CONC-1	RB-1	HPG				OPEN TO ABOVE	
144	VEST.	LVT-1	RB-1	P-1/P-2				CLG-7	SEE INTERIOR ELEVATIONS FOR TILE PATTERN
145	MENS LOCKERS	RS-2/CT-1	RB-1/SH-1	P-1/P-2/CT-2/3/4/5		SSM-1		CLG-7	
146	MENS R.R.	RS-2/CT-1	RB-1/SH-1	P-1/P-2/CT-2/3/4/5		SSM-1		CLG-7	SEE INTERIOR ELEVATIONS FOR TILE PATTERN
147	PPE VEST.	SV-2	RB-1	FRP-1/HPG	PL-3	SS-1	PL-4	CLG-1	
148	MED ISO DOGS	EP-1	EP-1	ERG-1/HPG				CLG-1	
149	FLEX	EP-1	EP-1	ERG-1/HPG				CLG-1	
150	INTAKE FLEX	EP-1	EP-1	ERG-1/HPG				CLG-1	
152	EXTERIOR ISO YARD	CONC-1	RB-1	ERG-1				OPEN TO ABOVE	
152	CATIO	EP-1	EP-1	PH-1				CLG-9	
153	EXT ISO DOGS	CONC-1	RB-1	ERG-1				OPEN TO ABOVE	
154	ELECT.	CONC-1	RB-1	P-1				CLG-7	
155	F.R.	CONC-1	RB-1	P-1				CLG-4	
156	STOR.	CONC-1	RB-1	P-1				CLG-7	
181	CATIO	EP-1	EP-1	PH-1				CLG-9	

FINISH MATERIALS

DESIGNATION	MATERIAL	MANUFACTURER	STYLE	COLOR	SIZE	COMMENTS/ INSTALLATION PATTERN
FLOOR						
CONC-1	SEALED CONCRETE					
CT-1	CERAMIC TILE	DALTILE	KEYSTONES	MOTTLED MEDIUM BROWN D050	2x2	
EP-1	EPOXY RESINOUS FLOOR	SHERWIN WILLIAMS	MARCO CHIP BLEND	CREEKBED FB-716	1/4 FLAKE	
LVT-1	LUXURY VINYL TILE	MANNINGTON	AMTICO SIGNATURE	BORDEAUX OAK ARON8450		
RS-1	RUBBER SHEET	NORA	NORAPLAN - SENTICA	CASHMERE 6906		PATTERN PER FINISH FLOOR PLAN
RS-2	RUBBER SHEET	NORA	NORAPLAN - DARVIA	HEMLOCK 7176		PATTERN PER FINISH FLOOR PLAN
RS-3	RUBBER SHEET	NORA	NORAPLAN - DARVIA	RED MAPLE 7173		PATTERN PER FINISH FLOOR PLAN
SV-1	SHEET VINYL	TARKETT	IQ EMINENT	WARM LIGHT GREY MG 0879		
WALL BASE						
RB-1	RUBBER BASE	MANNINGTON	TYPE TS	CHARCOAL 217		
SH-1	SCHLUTER JOLLY	SCHLUTER SYSTEMS	DILEX-AHK	SATIN ANODIZED ALUMINUM		
SV-1	SHEET VINYL COVED	TARKETT	IQ EMINENT	WARM LIGHT GREY MG 0879		
WALL						
CT-2	CERAMIC TILE	AMERICAN OLEAN	COLOR STORY WALL	CALM 0035	4" X 12"	FIELD : STACKED BOND VERTICAL, LOCATIONS PER TYP. TILE ELEVATIONS
CT-3	CERAMIC TILE	DALTILE	NATURAL HUES	TUSCANY NH74	4" X 8"	ACCENT : STACKED BOND VERTICAL, LOCATIONS PER TYP. TILE ELEVATIONS
CT-4	CERAMIC TILE	DALTILE	NATURAL HUES	DIJON NH73	2" X 8"	ACCENT : STACKED BOND VERTICAL, LOCATIONS PER TYP. TILE ELEVATIONS
CT-5	CERAMIC TILE	AMERICAN OLEAN	NATURAL HUES	REAL TEAL NH66	2" X 8"	ACCENT : STACKED BOND VERTICAL, LOCATIONS PER TYP. TILE ELEVATIONS
ERG-1	EPOXY RESIN COATING	SHERWIN WILLIAMS	MARCO CHIP BLEND	CREEKBED FB-716	EPOXY RESINOUS COATING WAINSCOT	
FRP-1	FIBER REINFORCED PLASTIC	CONSTRUCTION SPECIALTIES	ACROVYN	OZARK 314		
HPG	EPOXY PAINT			VARYING COLORS PER ARCHITECT		FIELD & ACCENT COLORS SELECTED BY ARCHITECT, ACCENT COLOR LOCATIONS SELECTED BY ARCHITECT
P-1	PAINT	DUNN EDWARDS		HEATHER DEC713	FIELD COLOR, WALLS TO BE P-1 U.O.N	FIELD
P-2	PAINT	DUNN EDWARDS		AFTER THE STORM DE5769	ACCENT, LOCATIONS SELECTED BY ARCHITECT	ACCENT
P-3	PAINT	DUNN EDWARDS		BREAD CRUST DE5370	ACCENT, LOCATIONS SELECTED BY ARCHITECT	ACCENT
P-4	PAINT	DUNN EDWARDS		COPPER MINING DET455	ACCENT, LOCATIONS SELECTED BY ARCHITECT	ACCENT
PH-1	PHENOLIC WALL PANEL	TRESPA	MATCH EXTERIOR	MATCH EXTERIOR		
WG-1	WALL & CORNER GUARDS	INPRO	SELECTED BY ARCHITECT	SELECTED BY ARCHITECT		
CASEWORK						
PL-1	PLASTIC LAMINATE	WILSONART		GRAPHITE 10657-60		
PL-2	PLASTIC LAMINATE	WILSONART		STRIATION Y0416K-07		
PL-3	PLASTIC LAMINATE	WILSONART		LANDMARK WOOD 7981K-12		
PL-4	PLASTIC LAMINATE	WILSONART		SPRUCE VELVET 1551D		
SS-1	STAINLESS STEEL					
SSM-1	SOLID SURFACE MATERIAL	CORIAN		ARCTIC ICE		
SSM-2	SOLID SURFACE MATERIAL	CORIAN		CARBON AGGREGATE		
CEILING						
CLG-1	ACCOUSTICAL CEILING TILE	ARMSTRONG, CERAMA GUARD			24" X 24"	
CLG-2	ACCOUSTICAL CEILING TILE	ARMSTRONG, CERAMA GUARD			24" X 48"	
CLG-3	ACCOUSTICAL CEILING TILE	ARMSTRONG, HEALTH ZONE			24" X 48", TEGULAR WITH 9/16" GRID	
CLG-4	ACCOUSTICAL CEILING TILE	ARMSTONG, ULTIMA			24" X 24", 1942 WITH 9/16" GRID	
CLG-5	ACCOUSTICAL CEILING TILE	ARMSTONG, ULTIMA			24" X 48", 1945 WITH 9/16" GRID	
CLG-6	ACCOUSTICAL CEILING TILE	ARMSTONG, ULTIMA			24" X 24", WITH SECURITY CLIPS, 1942 WITH 9/16" GRID	
CLG-7	GYPSUM BOARD TYPE 'X'	BY CONTRACTOR		TEXTURE AND PAINT P-1		
CLG-8	METAL SOFFIT PANEL	ARMSTRONG, METALWORKS	DIVERGE, PERFORATED W/ ACCOUSTICAL BACKING	VARYING COLORS, SELECTED BY ARCHITECT	VARYING WIDTHS & LENGTHS, SELECTED BY ARCHITECT	
CLG-9	METAL SOFFIT PANEL	ARMSTRONG, METALWORKS	LINEAR, CLASSIC	SELECTED BY ARCHITECT	VARYING WIDTHS & LENGTHS	
CLG-10	ACCOUSTICAL CEILING TILE	ARMSTRONG, HEALTH ZONE			24" X 24", TEGULAR WITH 9/16" GRID	
MISC						
ACOU-1	ACCOUSTICAL PRODUCT	MDC	ZINTRA	FOSSIL		
ACOU-2	ACCOUSTICAL PRODUCT	MDC	ZINTRA	MALACHITE		
ACOU-3	ACCOUSTICAL PRODUCT	MDC	ZINTRA	BRICK		
TP-1	TOILET PARTITION	BOBRICK/FUNDERMAX	PHENOLIC	SILVERETTA 0229 FH		

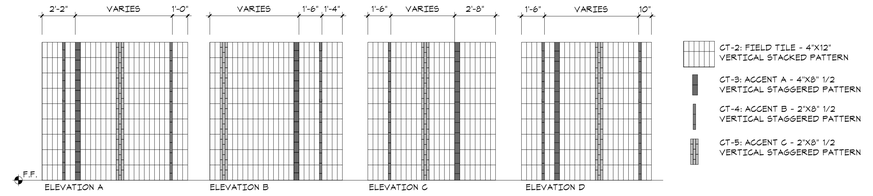
GENERAL NOTES

CASEWORK

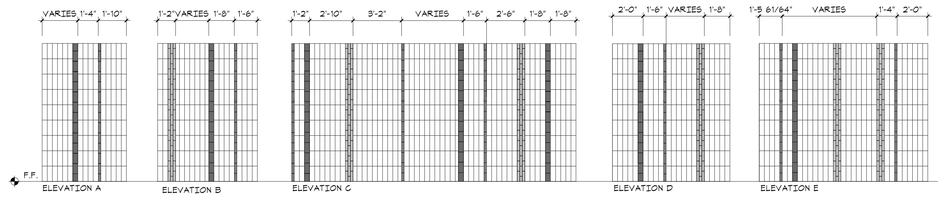
1. ALL CASEWORK TO FOLLOW ANSI GUIDELINES.
2. ALL LAMINATE PATTERN TO RUN ***HORIZONTALLY*** UNLESS OTHERWISE NOTED.
3. ALL SOLID SURFACING TO HAVE SQUARE EDGING.
4. ALL OPEN CASEWORK TO HAVE MATCHING LAMINATE AS EXTERIOR FACING.
5. ALL INTERIOR CASEWORK MELAMINE TO BE WHITE.
6. CONTRACTOR TO MEET OR EXCEED NAAWS 3.0 CUSTOM OR PREMIUM GRADE STANDARDS

INTERIOR

1. ALL GYPSUM BOARD WALLS AND CEILINGS TO BE LEVEL 5 FINISH, UNLESS OTHERWISE NOTED.
2. ALL GYPSUM BOARD WALLS AND CEILINGS TO BE PAINTED P-1, UNLESS OTHERWISE NOTED.
3. ALL RESTROOMS TO HAVE TILE PATTERN 1 AT WALLS UNLESS OTHERWISE NOTED. SEE TILE PATTERN ELEVATIONS, THIS SHEET.
4. REFER TO ROOM FINISHES PLAN FOR FLOORING PATTERNS, WHERE OCCURS



A9.00 SINGLE OCCUPANCY R.R. TYP. TILE ELVATIONS
1/4" = 1'-0"



2 A9.00 MULTIPLE OCCUPANCY R.R. TYP. TILE ELVATIONS
1/4" = 1'-0"

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
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Stockton, CA 95204
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LICENSED ARCHITECT
C28388
September 2027
STATE OF CALIFORNIA

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/2026

FINISH SCHEDULE

A9.00

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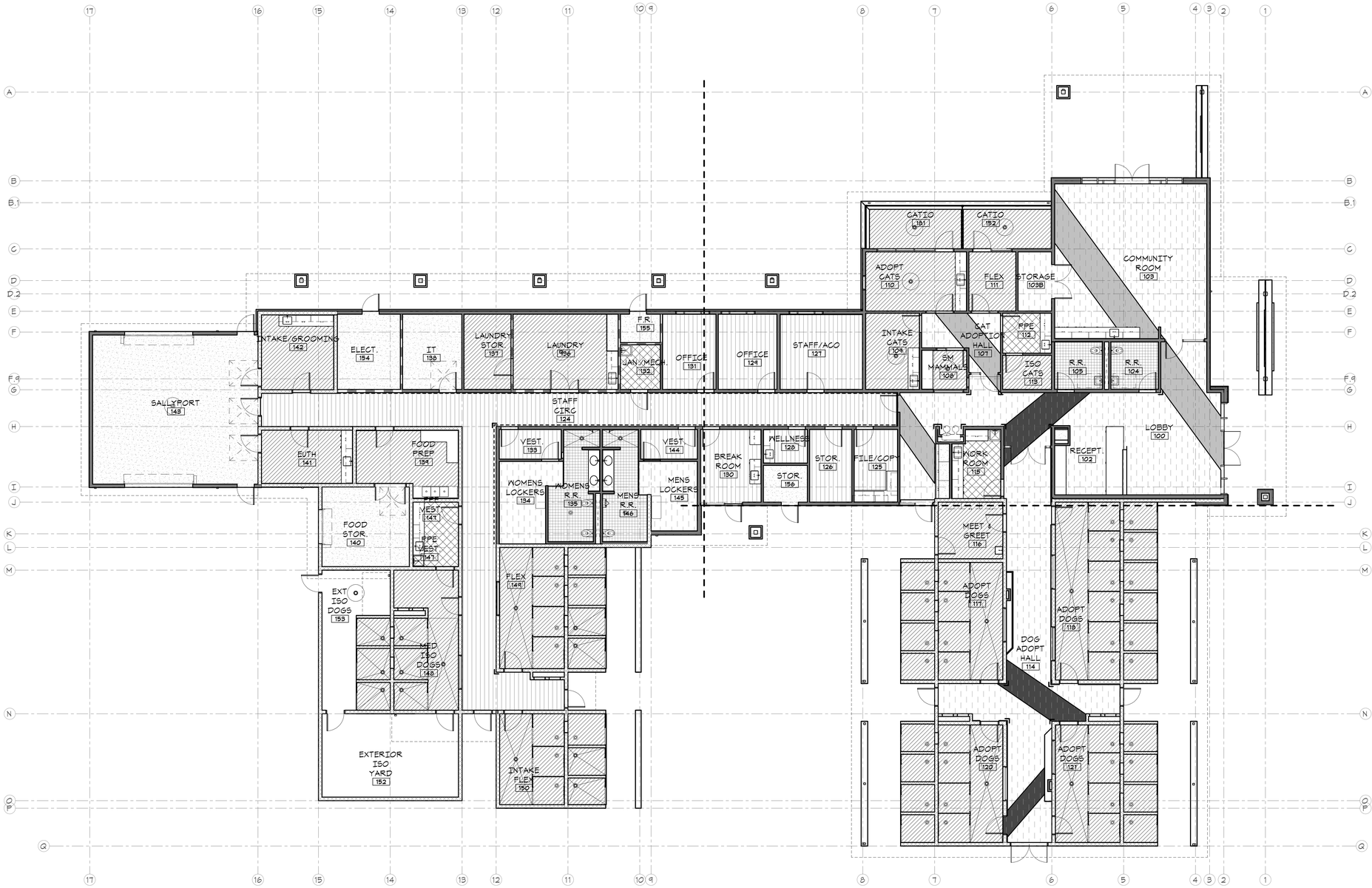
FLOORING LEGEND

- CONC-1 - SEALED CONCRETE
- CT-1 - CERAMIC TILE
- CT-2 - CERAMIC TILE
- ERF-1 - EPOXY RESINOUS FLOORING
- LVT-1 - LUXURY VINYL TILE
- RB-1 - RUBBER SHEET
- RB-2 - RUBBER SHEET
- RB-3 - RUBBER SHEET
- SV-1 - SHEET VINYL - COVED

WALL PROTECTION

- CORNER GUARD
- CRASH RAIL



1 FINISH FLOOR PLAN
A9.01 1/8" = 1'-0"

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No.	Description	Date	By

BID SET
6/23/2026

FLOOR FINISH PLAN

A9.01

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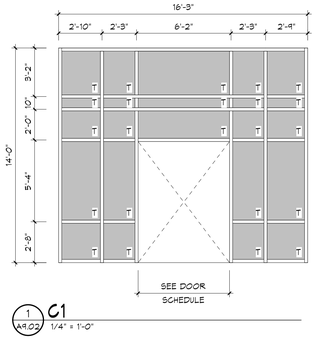
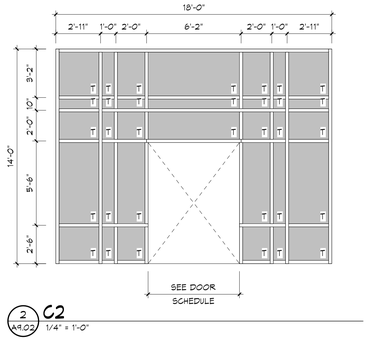
STOREFRONT SCHEDULE

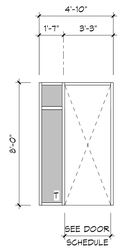
MARK	SF Type	SIZE		FRAME		DETAILS			COMMENTS
		WIDTH	HEIGHT	MATERIAL	FINISH	HEAD	JAMB	SILL	
1	G1	16' - 3"	14' - 0"	ALUMINUM	DARK BRONZE	1/A0.04		5/A0.04	
2	G2	18' - 0"	14' - 0"	ALUMINUM	DARK BRONZE	9/A0.04	4/A0.04	5/A0.04	
3	S4	7' - 0"	8' - 0"	ALUMINUM	DARK BRONZE			25/A0.04	
4	S8	13' - 7"	8' - 0"	ALUMINUM	DARK BRONZE			25/A0.04	
5	S11	2' - 6"	5' - 0"	ALUMINUM	DARK BRONZE			13/A0.04	
6	S10	6' - 0"	5' - 0"	ALUMINUM	DARK BRONZE	19/A0.04	24/A0.04	13/A0.04	
7	S10	6' - 0"	5' - 0"	ALUMINUM	DARK BRONZE	19/A0.04	24/A0.04	13/A0.04	
8	S10	6' - 0"	5' - 0"	ALUMINUM	DARK BRONZE	19/A0.04	24/A0.04	13/A0.04	
9	S6	7' - 6"	8' - 0"	ALUMINUM	DARK BRONZE	19/A0.04	24/A0.04	25/A0.04	
10	S3	6' - 0"	8' - 0"	ALUMINUM	DARK BRONZE	19/A0.04	24/A0.04	25/A0.04	
11	S5	6' - 8"	10' - 0"	ALUMINUM	DARK BRONZE	19/A0.04	24/A0.04	25/A0.04	
12	S4	7' - 0"	8' - 0"	ALUMINUM	DARK BRONZE	3/A0.04	3/A0.04	3/A0.04	
13	S2	5' - 0"	8' - 0"	ALUMINUM	DARK BRONZE	3/A0.04	3/A0.04	20/A0.04	
14	S1	4' - 10"	8' - 0"	ALUMINUM	DARK BRONZE	3/A0.04	3/A0.04	20/A0.04	
15	S2	5' - 0"	8' - 0"	ALUMINUM	DARK BRONZE	3/A0.04	3/A0.04	20/A0.04	
16	S2	5' - 0"	8' - 0"	ALUMINUM	DARK BRONZE	3/A0.04	3/A0.04	20/A0.04	
17	S9	5' - 4"	4' - 8"	ALUMINUM	DARK BRONZE	3/A0.04	3/A0.04	3/A0.04	
18	S9	1' - 9"	4' - 8"	ALUMINUM	DARK BRONZE	3/A0.04	3/A0.04	3/A0.04	
19	S7	8' - 3"	8' - 0"	ALUMINUM	DARK BRONZE	3/A0.04	3/A0.04	3/A0.04	
20	S9	6' - 0"	4' - 0"	ALUMINUM	DARK BRONZE	14/A0.04	14/A0.04	15/A0.04	
21	S9	6' - 0"	4' - 0"	ALUMINUM	DARK BRONZE	14/A0.04	14/A0.04	15/A0.04	
22	S9	6' - 0"	4' - 0"	ALUMINUM	DARK BRONZE	14/A0.04	14/A0.04	15/A0.04	
23	S9	6' - 0"	4' - 0"	ALUMINUM	DARK BRONZE	14/A0.04	14/A0.04	15/A0.04	
24	S9	6' - 0"	4' - 0"	ALUMINUM	DARK BRONZE	14/A0.04	14/A0.04	15/A0.04	
25	S9	6' - 0"	4' - 0"	ALUMINUM	DARK BRONZE	14/A0.04	14/A0.04	15/A0.04	
26	S9	6' - 0"	4' - 0"	ALUMINUM	DARK BRONZE	14/A0.04	14/A0.04	15/A0.04	



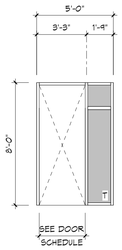
1 A9.02 **C1** 1/4" = 1'-0"



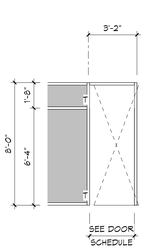
2 A9.02 **C2** 1/4" = 1'-0"



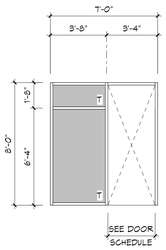
3 A9.02 **S1** 1/4" = 1'-0"



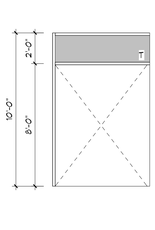
4 A9.02 **S2** 1/4" = 1'-0"



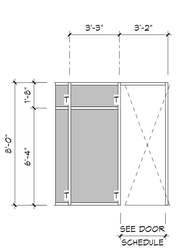
5 A9.02 **S3** 1/4" = 1'-0"



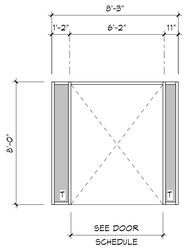
6 A9.02 **S4** 1/4" = 1'-0"



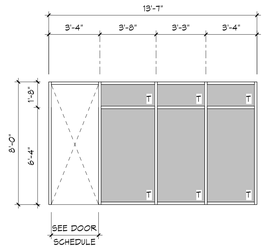
7 A9.02 **S5** 1/4" = 1'-0"



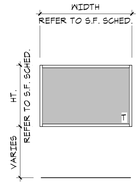
8 A9.02 **S6** 1/4" = 1'-0"



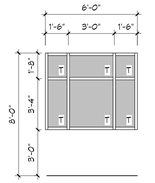
9 A9.02 **S7** 1/4" = 1'-0"



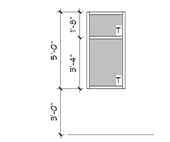
10 A9.02 **S8** 1/4" = 1'-0"



14 A9.02 **S9** 1/4" = 1'-0"



17 A9.02 **S10** 1/4" = 1'-0"



11 A9.02 **S11** 1/4" = 1'-0"

GENERAL NOTES

1. ALL GLAZING SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OF CHAPTER 24 OF THE CALIFORNIA STATE BUILDING CODE OF REGULATIONS AND THE CONSUMER PRODUCTS SAFETY COUNCIL, THAT OCCUR IN THE FOLLOWING CONDITIONS:
   A. INGRESS AND EGRESS DOORS (EXCEPT JALOUSIES).
   B. FIXED AND SLIDING PANELS OF SLIDING DOOR ASSEMBLIES AND PANELS IN SWINGING DOORS OTHER THAN WARDROBE.
   C. FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN A 24" ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" ABOVE THE WALKING SURFACE.
   D. GLAZING IN INDIVIDUAL FIXED OR OPERABLE PANEL, OTHER THAN THOSE LOCATIONS DESRIBED IN #3 ABOVE, THAT MEETS ALL THE FOLLOWING CONDITIONS:
      a. EXPOSED AREA OF AN INDIVIDUAL PANE GREATER THAN 9 S.F.
      b. EXPOSED BOTTOM EDGE LESS THAN 18" ABOVE THE FLOOR
      c. EXPOSED TOP EDGE GREATER THAN 36" ABOVE THE FLOOR
      d. ONE OR MORE WALKING SURFACES WITHIN 36" HORIZONTAL OF THE PLANE OF THE GLAZING
2. STOREFRONT ALUMINUM WINDOW FRAMES SHALL BE 2" MAX. WIDTH BY 4-1/2" DEEP MULLIONS WITH OUTSIDE GLAZED SETTING.
3. CURTAIN WALL ALUMINUM FRAMES SHALL BE 2-1/2" WIDE X 7-1/2" DEEP
4. ALL GLAZING SHALL BE 1" TEMPERED INSULATED GLASS.
5. HORIZONTAL SHALL HAVE 3" PRESSURE CAP. VERTICAL SHALL HAVE 1" PRESSURE CAP.
6. GLAZING COLOR-
   INTERIOR- 1: CLEAR
   2: LOW E
   EXTERIOR: 3: 3/4" ATLANTICA

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REGISTERED ARCHITECT
C28385
September 2027
STATE OF CALIFORNIA

Client:
CITY OF LATHROP

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Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/2026

STOREFRONT - CURTAIN WALL - WINDOW SCHEDULES

A9.02

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DOOR SCHEDULE

NO.	TYPE	PANEL DOOR WIDTH 1	PANEL DOOR WIDTH 2	SIDELIGHT WIDTH	PANEL HEIGHT	PANEL THICKNESS	PANEL CORE	FRAME	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD / SILL	MULLION	FIRE RATING	HDWR. GROUP	COMMENTS
100	B	3' - 0"	3' - 0"		7' - 10 3/4"	1 3/4"	ALUM.	ALUM.	9/AD.05	10/AD.05	13/AD.05			GROUP 100	
103A	A	3' - 0"			7' - 10"	1 3/4"	ALUM.	ALUM.	9/AD.05	10/AD.05				GROUP 4	
103B	B	3' - 0"	3' - 0"		7' - 10 3/4"	1 3/4"	ALUM.	ALUM.	9/AD.05	10/AD.05	13/AD.05			GROUP 100	
103C	E	3' - 0"	3' - 0"		7' - 0"	1 3/4"	WD	ALUM.	1/AD.05	1/AD.05				GROUP 14	
104	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	1/AD.05	1/AD.05				GROUP 25	PROVIDE 3/4" DOOR UNDERCUT FOR EXHAUST AIR FLOW
105	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	1/AD.05	1/AD.05				GROUP 25	PROVIDE 3/4" DOOR UNDERCUT FOR EXHAUST AIR FLOW
106	A	3' - 0"			7' - 10"	1 3/4"	ALUM.	ALUM.	7/AD.05	10/AD.05	13/AD.05			GROUP 101	
107	A	3' - 0"			7' - 10"	1 3/4"	ALUM.	ALUM.	12/AD.05	12/AD.05				GROUP 4	
108	A	3' - 0"			7' - 10"	1 3/4"	ALUM.	ALUM.	12/AD.05	12/AD.05				GROUP 3	
109	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	1/AD.05	1/AD.05				GROUP 8	
110A	A	3' - 0"			7' - 10"	1 3/4"	ALUM.	ALUM.	12/AD.05	12/AD.05				GROUP 3	
110B	A	3' - 0"			7' - 10"	1 3/4"	ALUM.	ALUM.	7/AD.05	10/AD.05	13/AD.05			GROUP 101	
111A	A	3' - 0"			7' - 10"	1 3/4"	ALUM.	ALUM.	12/AD.05	12/AD.05				GROUP 3	
111B	A	3' - 0"			7' - 10"	1 3/4"	ALUM.	ALUM.	7/AD.05	10/AD.05	13/AD.05			GROUP 101	
112	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	1/AD.05	1/AD.05				GROUP 8	
113	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	1/AD.05	1/AD.05				GROUP 15	
114A	B	3' - 0"	3' - 0"		7' - 10"	1 3/4"	ALUM.	ALUM.	12/AD.05	12/AD.05				GROUP 1	
114B	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05	3/AD.05			GROUP 103	
114C	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05	3/AD.05			GROUP 103	
114D	B	3' - 0"	3' - 0"		7' - 11"	1 3/4"	ALUM.	ALUM.	2/AD.05	2/AD.05	3/AD.05			GROUP 100	
115	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	1/AD.05	1/AD.05				GROUP 11	
116A	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05				GROUP 23	
116B	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05	3/AD.05			GROUP 103	
117	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05				GROUP 6	
118A	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	4/AD.05	4/AD.05				GROUP 6	
118B	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	4/AD.05	4/AD.05				GROUP 6	
120A	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	4/AD.05	4/AD.05				GROUP 6	
120B	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	4/AD.05	4/AD.05				GROUP 6	
121A	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05				GROUP 6	
121B	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05				GROUP 6	
124A	D	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	1/AD.05	1/AD.05				GROUP 8	
124B	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05				GROUP 106	
124C	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05	3/AD.05			GROUP 106	
124D	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05	3/AD.05			GROUP 106	
125	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	7/AD.05	7/AD.05				GROUP 15	
126	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	7/AD.05	7/AD.05				GROUP 13	
127	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	7/AD.05	7/AD.05				GROUP 8	
128	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	7/AD.05	7/AD.05				GROUP 22	
129	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	7/AD.05	7/AD.05				GROUP 21	
130A	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	7/AD.05	7/AD.05				GROUP 15	
130B	A	3' - 0"			7' - 10"	1 3/4"	ALUM.	ALUM.	7/AD.05	10/AD.05	13/AD.05			GROUP 102	
131	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	7/AD.05	7/AD.05				GROUP 21	
132	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	7/AD.05	7/AD.05				GROUP 12	PROVIDE 3/4" DOOR UNDERCUT FOR EXHAUST AIR FLOW
133	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	7/AD.05	7/AD.05				GROUP 20	
134	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	7/AD.05	7/AD.05				GROUP 20	PROVIDE 3/4" DOOR UNDERCUT FOR EXHAUST AIR FLOW
136	E	3' - 0"	2' - 0"		7' - 0"	2"	H.M.	H.M	1/AD.05	1/AD.05			1-HR	GROUP 20	
137	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	7/AD.05	7/AD.05			1-HR	GROUP 16	
138	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	7/AD.05	7/AD.05				GROUP 8	
139	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05				GROUP 10	
140A	C	3' - 0"	2' - 0"		7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05				GROUP 18	
140B	H	8' - 0"			8' - 0"	2"	HL		14/AD.05	15/AD.05				-	
141A	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05				GROUP 10	PROVIDE 3/4" DOOR UNDERCUT FOR EXHAUST AIR FLOW
141B	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05				GROUP 106	
142A	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05				GROUP 10	
142B	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05				GROUP 106	
143A	D	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	6/AD.05	6/AD.05	3/AD.05			GROUP 108	
143B	D	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	6/AD.05	6/AD.05	3/AD.05			GROUP 108	
143C	H	12' - 0"			10' - 0"	2"	HL		17/AD.05	20/AD.05	20/AD.05			-	
143D	H	12' - 0"			10' - 0"	2"	HL		17/AD.05	20/AD.05	20/AD.05			-	
144	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	7/AD.05	7/AD.05				GROUP 20	
145	D	3' - 0"			7' - 0"	1 3/4"	WD	ALUM.	7/AD.05	7/AD.05				GROUP 20	PROVIDE 3/4" DOOR UNDERCUT FOR EXHAUST AIR FLOW
147	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05				GROUP 11	PROVIDE 3/4" DOOR UNDERCUT FOR EXHAUST AIR FLOW
148A	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05				GROUP 11	PROVIDE 3/4" DOOR UNDERCUT FOR EXHAUST AIR FLOW
148B	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05				GROUP 6	
149	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05				GROUP 6	
150	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05				GROUP 6	
152A	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05	3/AD.05			GROUP 106	
152B	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05	3/AD.05			GROUP 106	
153	F	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	2/AD.05	2/AD.05	3/AD.05			GROUP 105	
154	D	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	6/AD.05	6/AD.05	3/AD.05			GROUP 107	PROVIDE DOOR LOUVERS, SMD
155	D	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	6/AD.05	6/AD.05	3/AD.05			GROUP 108	
156	D	3' - 0"			7' - 0"	1 3/4"	H.M.	H.M.	6/AD.05	6/AD.05	3/AD.05			GROUP 107	
G1	GA-1	3' - 0"			4' - 0"	1"	GYP.	STL						GROUP 109	
G2	GA-1	3' - 0"			4' - 0"	1"	GYP.	STL						GROUP 109	
G3	GA-1	3' - 0"			4' - 0"	1"	GYP.	STL						GROUP 109	
G4	GA-1	3' - 0"			8' - 0"	1"	GYP.	STL						GROUP 111	
G5	GA-1	3' - 0"			8' - 0"	1"	GYP.	STL						GROUP 111	
G6	GA-1	3' - 0"			8' - 0"	1"	GYP.	STL						GROUP 111	
G7	GA-1	3' - 0"			8' - 0"	1"	GYP.	STL						GROUP 112	
G8	GA-1	3' - 0"			8' - 0"	1"	GYP.	STL						GROUP 112	
G9	GA-1	3' - 0"			8' - 0"	1"	GYP.	STL						GROUP 112	
G10	GA-2	4' - 0"	4' - 0"		8' - 0"	1"	GYP.	STL						GROUP 110	
G11	GA-2	4' - 0"	4' - 0"		8' - 0"	1"	GYP.	STL						GROUP 110	
G12	GA-1	3' - 0"			8' - 0"	1"	GYP.	STL						GROUP 112	
G13	GA-1	3' - 0"			8' - 0"	1"	GYP.	STL						GROUP 110	
G14	GA-1	3' - 0"			8' - 0"	1"	GYP.	STL						GROUP 110	
G15	GA-1	3' - 0"			6' - 0"	1"	GYP.	STL						GROUP 110	
G16	GA-1	3' - 0"			6' - 0"	1"	GYP.	STL							

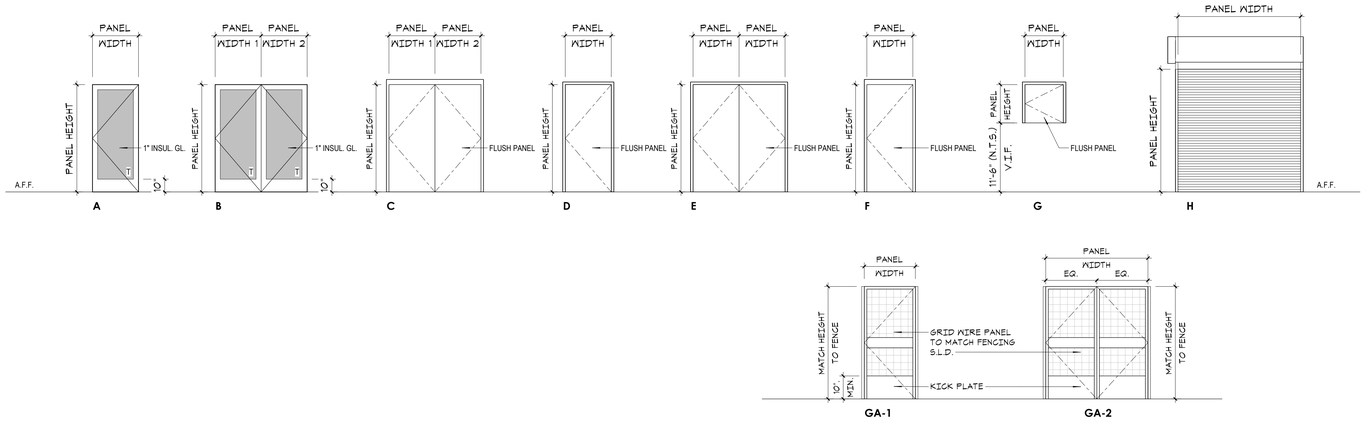
NOTES:
- MOUNT HARDWARE 2'-10" TO 4'-0" A.F.F. PER 2025 CBC 1010.2.9
- PUSH-PULL HANDLES AND CLOSERS TO BE SINGLE-ACTION ACTIVATED WITH 5 LBS PRESSURE MAXIMUM. FIRE-RATED DOORS EXCLUDED.

GENERAL NOTES

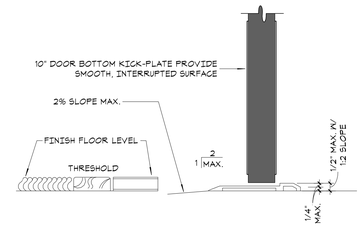
1. FURNISH & INSTALL A READILY VISIBLE, DURABLE SIGN ABOVE EXIT DOORS STATING "THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS". THE SIGN SHALL BE IN LETTERS NOT LESS THAN 1 INCH HIGH ON A CONTRASTING BACKGROUND. WHEN UNLOCKED, THE EXIT DOOR(S) MUST BE FREE TO SWING WITHOUT OPERATION OF ANY LATCHING DEVICE.
2. THE FINISH OF ALL ALUMINUM STOREFRONT DOOR FRAMES SHALL BE CLEAR ANODIZED, U.O.N.
3. STOREFRONT DOOR LOCKS SHALL BE FURNISHED WITH A 3/4" HOOK OR EXPANDING BOLT TO COMPLY WITH FIRE DEPARTMENT REQUIREMENTS.
4. REFER TO STOREFRONT SCHEDULE FOR GLASS TYPES. REFER TO SHEET G9.00 & G9.01 FOR ACCESSIBILITY NOTES & DETAILS.

DOOR NOTES

1. ALL DOORS THAT ARE HAND ACTIVATED SHALL BE OPERABLE WITH A SINGLE EFFORT BY A LEVER TYPE HARDWARE, PANIC BAR, PUSH/PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.
2. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR EXTERIOR AND INTERIOR DOORS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS.
3. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED NOT TO EXCEED 15 LBS.
4. EXIT DOORS SHALL BE FURNISHED & INSTALLED WITH HARDWARE ALLOWING DOOR TO BE OPENED FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. PAIRS OF EXIT DOORS SHALL BE FURNISHED & INSTALLED WITH APPROVED AUTOMATIC FLUSH BOLTS ON ONE OF THE DOOR LEAVES AND NO SURFACE MOUNTED HARDWARE INSTALLED ON THE SAME LEAF. THE UNLATCHING OF BOTH DOOR LEAVES SHALL NOT REQUIRE MORE THAN ONE OPERATION.
5. FURNISH & INSTALL A READILY VISIBLE, DURABLE SIGN ABOVE EXIT DOORS STATING "THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS". THE SIGN SHALL BE IN LETTERS NOT LESS THAN 1 INCH HIGH ON A CONTRASTING BACKGROUND. WHEN UNLOCKED, THE EXIT DOOR(S) MUST BE FREE TO SWING WITHOUT OPERATION OF ANY LATCHING DEVICE.
6. THE FINISH OF ALL ALUMINUM STOREFRONT DOOR FRAMES SHALL BE CLEAR ANODIZED, U.O.N.
7. STOREFRONT DOOR LOCKS SHALL BE FURNISHED WITH A 3/4" HOOK OR EXPANDING BOLT TO COMPLY WITH FIRE DEPARTMENT REQUIREMENTS.
8. ALL GLAZING IN DOOR LITES SHALL BE TEMPERED GLASS.
9. REFER TO SHEET G4.00 & G4.01 FOR ACCESSIBILITY NOTES & DETAILS.



LDA - DOOR TYPES
1/4" = 1'-0"



1 A9.03 THRESHOLDS
3" = 1'-0"

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Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/2026

DOOR SCHEDULE

A9.03

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SCHEDULE - HDWR GROUPS

HDWR - QTY	HDWR - TYPE	HDWR - DESCRIPTION	HDWR - FINISH	HDWR - MFR
GROUP 1				
2	PIVOT SET	7215 SET	US32D	IVES
2	INTERMEDIATE PIVOT	7215 SET	US32D	IVES
1	EXIT DEVICE		US26D	VON DUPRIN
1	EXIT DEVICE		US26D	VON DUPRIN
1	RIM CYLINDER HOUSING	20-079	626	SCHLAGE
1	CYLINDER IC CORE	23-030	626	SCHLAGE
2	PULL	RM1230 32" LONG	US32D	ROCKWOOD
1	SURFACE CLOSER	4111 EDA/4011 REG	ALUM	LCN
1	SURFACE CLOSER W/ OVERHEAD STOP	4111 EDA/4011 REG	ALUM	LCN
1	COORDINATOR			
1	WALL STOP	WS406/407CVX	US32D	IVES
1	WEATHER STRIP	588 GR 20'	GRAY	ZERO
GROUP 2				
1	PIVOT SET	7215 SET	US32D	IVES
1	INTERMEDIATE PIVOT	7215 INT	US32D	IVES
1	SURFACE CLOSER	4111 EDA/4011 REG	ALUM	VON DUPRIN
1	CLASSROOM LOCKSET	ND80 JD-TLR	626	SCHLAGE
1	WALL STOP	WS406/407CVX	US32D	IVES
1	AUTO DOOR BOTTOM SURFACE MOUNT	361	ALUM	ZERO
1	THRESHOLD	172 A 36"	ALUM	ZERO
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
GROUP 3				
1	PIVOT SET	7215 SET	US32D	IVES
1	INTERMEDIATE PIVOT	7215 INT	US32D	IVES
1	SURFACE CLOSER	4111 EDA/4011 REG	ALUM	VON DUPRIN
1	PASSAGE LATCHSET	ND10 S TRL	626	SCHLAGE
1	WALL STOP	WS406/407CVX	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
GROUP 4				
1	PIVOT SET	7215 SET	US32D	IVES
1	INTERMEDIATE PIVOT	7215 INT	US32D	IVES
1	SURFACE CLOSER	4111 EDA/4011 REG	ALUM	VON DUPRIN
1	CLASSROOM LOCKSET	ND10 JD-TLR	626	SCHLAGE
1	WALL STOP	WS406/407CVX	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
GROUP 5				
1	PIVOT SET	7215 SET	US32D	IVES
1	INTERMEDIATE PIVOT	7215 INT	US32D	IVES
1	SURFACE CLOSER	4111 EDA/4011 REG	ALUM	VON DUPRIN
1	PASSAGE LATCHSET	ND10 S TRL	626	SCHLAGE
1	WALL STOP	WS406/407CVX	US32D	IVES
1	AUTO DOOR BOTTOM SURFACE MOUNT	361	ALUM	ZERO
1	THRESHOLD	172 A 36"	ALUM	ZERO
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
GROUP 6				
1	CARD READER			
1	POWER SUPPLY (BATTERY BACK-UP)	S.E.D.		
1	ELECRIC STRIKE	5000G	630	HES
1	PIVOT SET	7215 SET	US32D	IVES
1	INTERMEDIATE PIVOT	7215 INT	US32D	IVES
1	STOREROOM LOCKSET	ND80 JD-TLR	626	SCHLAGE
1	CYLINDER IC CORE	23-030	626	SCHLAGE
1	SURFACE CLOSER	4111 EDA/4011 REG	ALUM	IVES
1	WALL STOP	WS406/407CVX	US32D	ZERO
1	AUTO DOOR BOTTOM SURFACE MOUNT	361	ALUM	ZERO
1	THRESHOLD	172 A 36"	ALUM	ZERO
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
GROUP 7				
1	CARD READER			
1	POWER SUPPLY (BATTERY BACK-UP)	S.E.D.		
1	ELECRIC STRIKE	5000G	630	HES
3	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	STOREROOM LOCKSET	ND80 JD-TLR	626	SCHLAGE
1	CYLINDER IC CORE	23-030	626	SCHLAGE
1	SURFACE CLOSER	4111 EDA/4011 REG	ALUM	LCN
1	WALL STOP	WS406/407CVX	US32D	IVES
1	KICK PLATE	8400 10" X 2" LDW	US32D	IVES
1	AUTO DOOR BOTTOM SURFACE MOUNT	361	ALUM	ZERO
1	THRESHOLD	172 A 36"	ALUM	ZERO
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
GROUP 8				
1	CARD READER			
1	POWER SUPPLY (BATTERY BACK-UP)	S.E.D.		
1	ELECRIC STRIKE	5000G	630	HES
3	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	STOREROOM LOCKSET	ND80 JD-TLR	626	SCHLAGE
1	CYLINDER IC CORE	23-030	626	SCHLAGE
1	SURFACE CLOSER	4111 EDA/4011 REG	ALUM	LCN
1	WALL STOP	WS406/407CVX	US32D	IVES
1	KICK PLATE	8400 10" X 2" LDW	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
GROUP 9				
1	CARD READER			
1	POWER SUPPLY (BATTERY BACK-UP)	S.E.D.		
1	ELECRIC STRIKE	5000G	630	HES
3	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	STOREROOM LOCKSET	ND80 JD-TLR	626	SCHLAGE
1	CYLINDER IC CORE	23-030	626	SCHLAGE
1	SURFACE CLOSER	4111 EDA/4011 REG	ALUM	LCN
1	WALL STOP	WS406/407CVX	US32D	IVES
1	ARMOR PLATE	8400 34"X2" LDW	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
GROUP 10				
1	CARD READER			
1	POWER SUPPLY (BATTERY BACK-UP)	S.E.D.		
1	ELECRIC STRIKE	5000G	630	HES
3	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	STOREROOM LOCKSET	ND80 JD-TLR	626	SCHLAGE
1	CYLINDER IC CORE	23-030	626	SCHLAGE
1	SURFACE CLOSER W/ OVERHEAD STOP	4111 EDA/4011 REG	ALUM	LCN
1	ARMOR PLATE	8400 34"X2" LDW	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
GROUP 11				
1	CARD READER			
1	POWER SUPPLY (BATTERY BACK-UP)	S.E.D.		
1	ELECRIC STRIKE	5000G	630	HES
3	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	STOREROOM LOCKSET	ND80 JD-TLR	626	SCHLAGE
1	CYLINDER IC CORE	23-030	626	SCHLAGE
1	SURFACE CLOSER W/ OVERHEAD STOP	4111 EDA/4011 REG	ALUM	LCN
1	KICK PLATE	8400 10" X 2" LDW	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
GROUP 12				
3	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	STOREROOM LOCKSET	ND80 JD-TLR	626	SCHLAGE
1	CYLINDER IC CORE	23-030	626	SCHLAGE
1	WALL STOP	WS406/407CVX	US32D	IVES
1	MOP PLATE	8400 6" X 2" LDW	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
GROUP 13				
3	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	STOREROOM LOCKSET	ND80 JD-TLR	626	SCHLAGE
1	CYLINDER IC CORE	23-030	626	SCHLAGE
1	WALL STOP	WS406/407CVX	US32D	IVES
1	KICK PLATE	8400 10" X 2" LDW	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO

SCHEDULE - HDWR GROUPS

HDWR - QTY	HDWR - TYPE	HDWR - DESCRIPTION	HDWR - FINISH	HDWR - MFR
GROUP 14				
6	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	STOREROOM LOCKSET	ND80 JD-TLR	626	SCHLAGE
2	CYLINDER IC CORE	23-030	626	SCHLAGE
1	FLUSH BOLT	FB458	626	IVES
1	DUST PROOF STRIKE	DP1	626	IVES
2	WALL STOP	WS406/407CVX	US32D	IVES
2	KICK PLATE	8400 10" X 2" LDW	US32D	IVES
1	WEATHER STRIP	588 GR 20'	GRAY	ZERO
GROUP 15				
9	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	PASSAGE LATCHSET	ND10 S TRL	626	SCHLAGE
1	WALL STOP	WS406/407CVX	US32D	IVES
1	KICK PLATE	8400 10" X 2" LDW	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
GROUP 16				
9	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	PASSAGE LATCHSET	ND10 S TRL	626	SCHLAGE
1	SURFACE CLOSER	4111 EDA/4011 REG	ALUM	LCN
1	WALL STOP	WS406/407CVX	US32D	IVES
1	KICK PLATE	8400 10" X 2" LDW	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
GROUP 17				
3	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	PASSAGE LATCHSET	ND10 S TRL	626	SCHLAGE
1	SURFACE CLOSER W/ OVERHEAD STOP	4111 EDA/4011 REG	ALUM	LCN
1	KICK PLATE	8400 10" X 2" LDW	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
GROUP 18				
3	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	PASSAGE LATCHSET	ND10 S TRL	626	SCHLAGE
1	WALL STOP	WS406/407CVX	US32D	IVES
2	ARMOR PLATE	8400 34"X2" LDW	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
GROUP 19				
3	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	PASSAGE LATCHSET	ND10 S TRL	626	SCHLAGE
1	OVERHEAD STOP		US32D	IVES
1	ARMOR PLATE	8400 34"X2" LDW	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
GROUP 20				
6	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	PASSAGE LATCHSET	ND10 S TRL	626	SCHLAGE
1	FLUSH BOLT	FB458	626	IVES
1	DUST PROOF STRIKE	DP1	626	IVES
1	SURFACE CLOSER W/ OVERHEAD STOP	4111 EDA/4011 REG	ALUM	LCN
2	ARMOR PLATE	8400 34"X2" LDW	US32D	IVES
1	WEATHER STRIP	588 GR 20'	GRAY	ZERO
GROUP 21				
4	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	OFFICE LATCHSET	ND50 JD TRL	626	SCHLAGE
1	CYLINDER IC CORE	23-030	626	SCHLAGE
1	OVERHEAD STOP	4045	US32D	GLYNN
1	DUTCH DOOR BOLT	3920-8	626	TRIMCO
3	SILENCER	SR64	GRAY	ZERO
GROUP 22				
3	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	OFFICE LATCHSET	ND50 JD TRL	626	SCHLAGE
1	CYLINDER IC CORE	23-030	626	SCHLAGE
1	OVERHEAD STOP	4045	US32D	GLYNN
3	SILENCER	SR64	GRAY	ZERO
GROUP 23				
3	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	
1	OFFICE LATCHSET	ND50 JD-TLR	626	
1	CYLINDER IC CORE	23-030	626	
1	SURFACE CLOSER	4111 EDA/4011 REG	ALUM	
1	WALL STOP	WS406/407CVX	US32D	
1	ARMOR PLATE (INSIDE)	8400 34"X2" LDW	US32D	
1	KICK PLATE (OUTSIDE)	8400 10" X 2" LDW	US32D	
1	AUTO DOOR BOTTOM SURFACE MOUNT	361	ALUM	
1	THRESHOLD	172 A 36"	ALUM	
1	WEATHER STRIP	588 GR 1'1"	GRAY	
GROUP 24				
9	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	PRIVACY LOCKSET	ND40 JD	626	SCHLAGE
1	WALL STOP	WS406/407CVX	US32D	IVES
3	SILENCER	SR64	GRAY	ZERO
GROUP 25				
9	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	PRIVACY LOCKSET W/ INDICATOR	ND40 TRL	619	SCHLAGE
1	SURFACE CLOSER	4111 EDA/4011 REG	ALUM	LCN
1	WALL STOP	WS406/407CVX	US32D	IVES
1	KICK PLATE (OUTSIDE)	8400 10" X 2" LDW	US32D	IVES
1	MOP PLATE (INSIDE)	8400 6" X 2" LDW	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
GROUP 26				
1	STOREROOM LOCKSET W/ LEVER HANDLE	ND80R	626	SCHLAGE
1	CYLINDER IC CORE	20-740	LEVEL 3	626
2	SINGLE ACTING SPRING HINGE	LB4311C-600	652	BOMMER
GROUP 100				
1	CARD READER			
1	POWER SUPPLY (BATTERY BACK-UP)	S.E.D.		
1	POWER TRANSFER	EPT-10		
2	PIVOT SET	7215 SET	US32D	IVES
2	INTERMEDIATE PIVOT	7215 SET	US32D	IVES
1	ELECTRIC EXIT DEVICE	9947-EO	US26D	VON DUPRIN
1	ELECTRIC EXIT DEVICE	EL-9947NL-OP	US26D	VON DUPRIN
1	RIM CYLINDER HOUSING	20-079	626	SCHLAGE
1	CYLINDER IC CORE	23-030	626	SCHLAGE
2	PULL	RM1230 30" LONG	US32D	ROCKWOOD
2	SURFACE CLOSER	4111 EDA REG	ALUM	LCN
1	COORDINATOR			
2	FLOOR STOP	FS439	US32D	IVES
1	WEATHER STRIP	588 GR 20'	GRAY	ZERO
2	SWEEP	2251 V	ALUM	ZERO
1	THRESHOLD	158 A 72"	ALUM	ZERO
GROUP 101				
1	POWER SUPPLY (BATTERY BACK-UP)	S.E.D.		
1	POWER TRANSFER	EPT-10		
1	PIVOT SET	7215 SET	US32D	IVES
1	INTERMEDIATE PIVOT	7215 SET	US32D	IVES
1	EXIT DEVICE	AX EL 98L-NL X 996L-NL-REV 03 425-SNB	US26D	VON DUPRIN
1	ELECRIC STRIKE	5000G	630	HES
1	RIM CYLINDER HOUSING	20-079	626	SCHLAGE
1	CYLINDER IC CORE	20-030	626	SCHLAGE
1	PULL	RM1230 30" LONG	US32D	ROCKWOOD
1	SURFACE CLOSER	4111 EDA/4011 REG	ALUM	LCN
1	FLOOR STOP	FS439	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
1	SWEEP	2251 V	ALUM	ZERO
1	THRESHOLD	158 A 36"	ALUM	ZERO

SCHEDULE - HDWR GROUPS

HDWR - QTY	HDWR - TYPE	HDWR - DESCRIPTION	HDWR - FINISH	HDWR - MFR
GROUP 102				
1	CARD READER			
1	POWER SUPPLY (BATTERY BACK-UP)	S.E.D.		
1	POWER TRANSFER	EPT-10		
1	PIVOT SET	7215 SET	US32D	IVES
1	INTERMEDIATE PIVOT	7215 SET	US32D	IVES
1	STOREROOM LOCKSET	ND80 JD-TLR	626	SCHLAGE
1	ELECRIC STRIKE	5000G	630	HES
1	CYLINDER IC CORE	23-030	626	SCHLAGE
1	SURFACE CLOSER	4111 EDA/4011 REG	ALUM	LCN
1	FLOOR STOP	FS439	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
1	SWEEP	2251 V	ALUM	ZERO
1	THRESHOLD	158 A 36"	ALUM	ZERO
GROUP 103				
1	POWER SUPPLY (BATTERY BACK-UP)	S.E.D.		
1	POWER TRANSFER	EPT-10		
3	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	EXIT DEVICE	AX EL 98L-NL X 996L-NL-REV 03 425-SNB	US26D	VON DUPRIN
1	ELECRIC STRIKE	5000G	630	HES
1	CYLINDER IC CORE	23-030	626	SCHLAGE
1	STOREROOM LOCKSET	ND80 JD-TLR	626	SCHLAGE
1	SURFACE CLOSER	4111 EDA/4011 REG	ALUM	LCN
1	FLOOR STOP	FS439	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
1	KICK PLATE	8400 10" X 2" LDW	US32D	IVES
1	SWEEP	2251 V	ALUM	ZERO
1	THRESHOLD	158 A 36"	ALUM	ZERO
GROUP 104				
1	CARD READER			SCHLAGE
1	POWER SUPPLY (BATTERY BACK-UP)	S.E.D.		
3	SELF CLOSING HINGES	MAMMOTH-180		LACINOX
1	ELECRIC STRIKE	5000G	630	HES
1	CYLINDER IC CORE	20-740	LEVEL 3	630
1	STOREROOM LOCKSET	ND80 JD-TLR	630	SCHLAGE
GROUP 105				
1	CARD READER			
1	POWER SUPPLY (BATTERY BACK-UP)	S.E.D.		
1	POWER TRANSFER	EPT-10		
3	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	STOREROOM LOCKSET	ND80 JD-TLR	626	SCHLAGE
1	CYLINDER IC CORE	23-030	626	SCHLAGE
1	ELECRIC STRIKE	5000G	630	HES
1	SURFACE CLOSER	4111 EDA/4011 REG	ALUM	LCN
1	WALL STOP	WS406/407CVX	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
1	KICK PLATE	8400 10" X 2" LDW	US32D	IVES
1	SWEEP	2251 V	ALUM	ZERO
1	THRESHOLD	158 A 36"	ALUM	ZERO
GROUP 106				
1	CARD READER			
1	POWER SUPPLY (BATTERY BACK-UP)	S.E.D.		
1	POWER TRANSFER	EPT-10		
3	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	IVES
1	STOREROOM LOCKSET	ND80 JD-TLR	626	SCHLAGE
1	CYLINDER IC CORE	23-030	626	SCHLAGE
1	ELECRIC STRIKE	5000G	630	HES
1	SURFACE CLOSER	4111 EDA/4011 REG	ALUM	LCN
1	FLOOR STOP	FS439	US32D	IVES
1	WEATHER STRIP	588 GR 1'1"	GRAY	ZERO
1	KICK PLATE	8400 10" X 2" LDW	US32D	IVES
1	SWEEP	2251 V	ALUM	ZERO
1	THRESHOLD	158 A 36"	ALUM	ZERO
GROUP 107				
1	CARD READER			
1	POWER SUPPLY (BATTERY BACK-UP)	S.E.D.		
1	POWER TRANSFER	EPT-10		
3	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP	630	
1	STOREROOM LOCKSET	ND80 JD-TLR	626	
1	CYLINDER IC CORE	23-030	626	
1	ELECTRIC STRIKE	5000G	630	
1	SURFACE CLOSER	4111 EDA/4011 REG	ALUM	
1	FLOOR STOP	FS439	US32D	
1	WEATHER STRIP	588 GR 1'1"	GRAY	
1	SWEEP	2251 V	ALUM	
1	THRESHOLD	158 A 36"	ALUM	
GROUP 108				
3	HINGES	5BB1 HW 4 1/2 X 4 1/2 NRP		
1	STOREROOM LOCKSET	ND80 JD-TLR		
1	CYLINDER IC CORE	23-030		
1	SURFACE CLOSER	4111 EDA/4011 REG		
1	FLOOR STOP	FS439		
1	WEATHER STRIP	588 GR 1'1"		
1	SWEEP	2251 V		
1	THRESHOLD	158 A 36"		
GROUP 109				
2	SELF CLOSING HINGES	MAMMOTH-180		LACINOX
1	PASSAGE LATCHSET W/ LEVER HANDLE	ND10S-TLR	630	SCHLAGE
GROUP 110				
4	SELF CLOSING HINGES	MAMMOTH-180		LACINOX
1	STOREROOM LOCKSET W/ LEVER HANDLE	ND80 JD-TLR	630	SCHLAGE
1	CYLINDER IC CORE	20-740	LEVEL 3	630
GROUP 111				
2	SELF CLOSING HINGES	MAMMOTH-180		LACINOX
1	STOREROOM LOCKSET W/ LEVER HANDLE	ND80 JD-TLR	630	SCHLAGE
1	CYLINDER IC CORE	20-740	LEVEL 3	630
GROUP 112				
2	SELF CLOSING HINGES	MAMMOTH-180		LACINOX
1	CLASSROOM LOCKSET W/ LEVER HANDLE	ND70 JD-TLR	630	SCHLAGE
1	CYLINDER IC CORE	20-740	LEVEL 3	630

CODE = MANUFACTURE
VON = VON DUPRIN
HAG = HAGER
TR = TRIMCO
SCG = SCHLAGE
SCE = SCHLAGE ELECTRONICS
LCN = LCN
IVES = IVES
AL = ALTRONICS
PEM = PEMKO

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Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

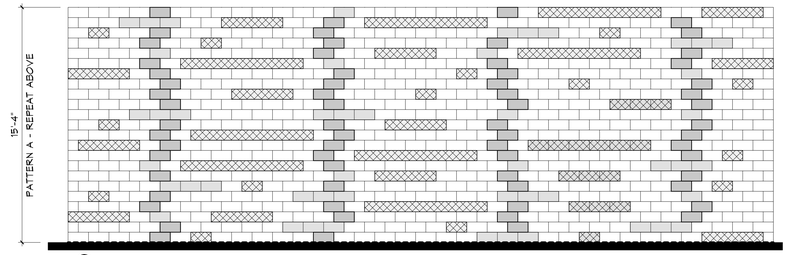
No.	Description	Date	By

BID SET
6/23/2026

DOOR HARDWARE SCHEDULE

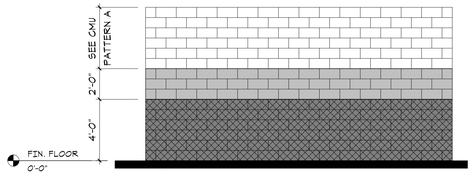
A9.04

6/23/2026 3:59:23 PM

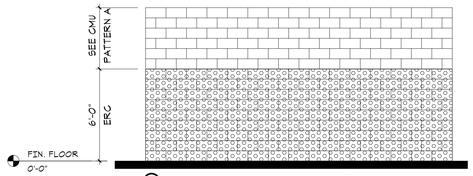


A TYP. CMU PATTERN A

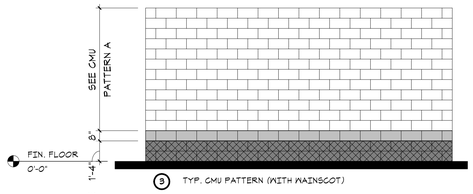
2 CMU PATTERNS
A9.05 1/4" = 1'-0"



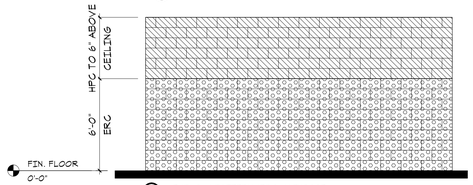
1 TYP. CMU PATTERN (WITH WAINSCOT)



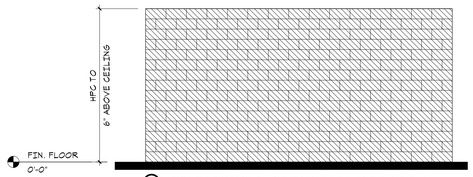
2 TYP. CMU PATTERN (WITHOUT WAINSCOT)



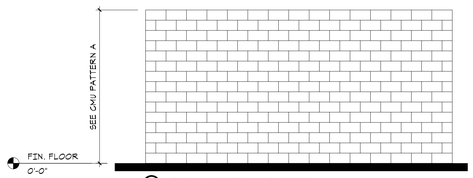
3 TYP. CMU PATTERN (WITH WAINSCOT)



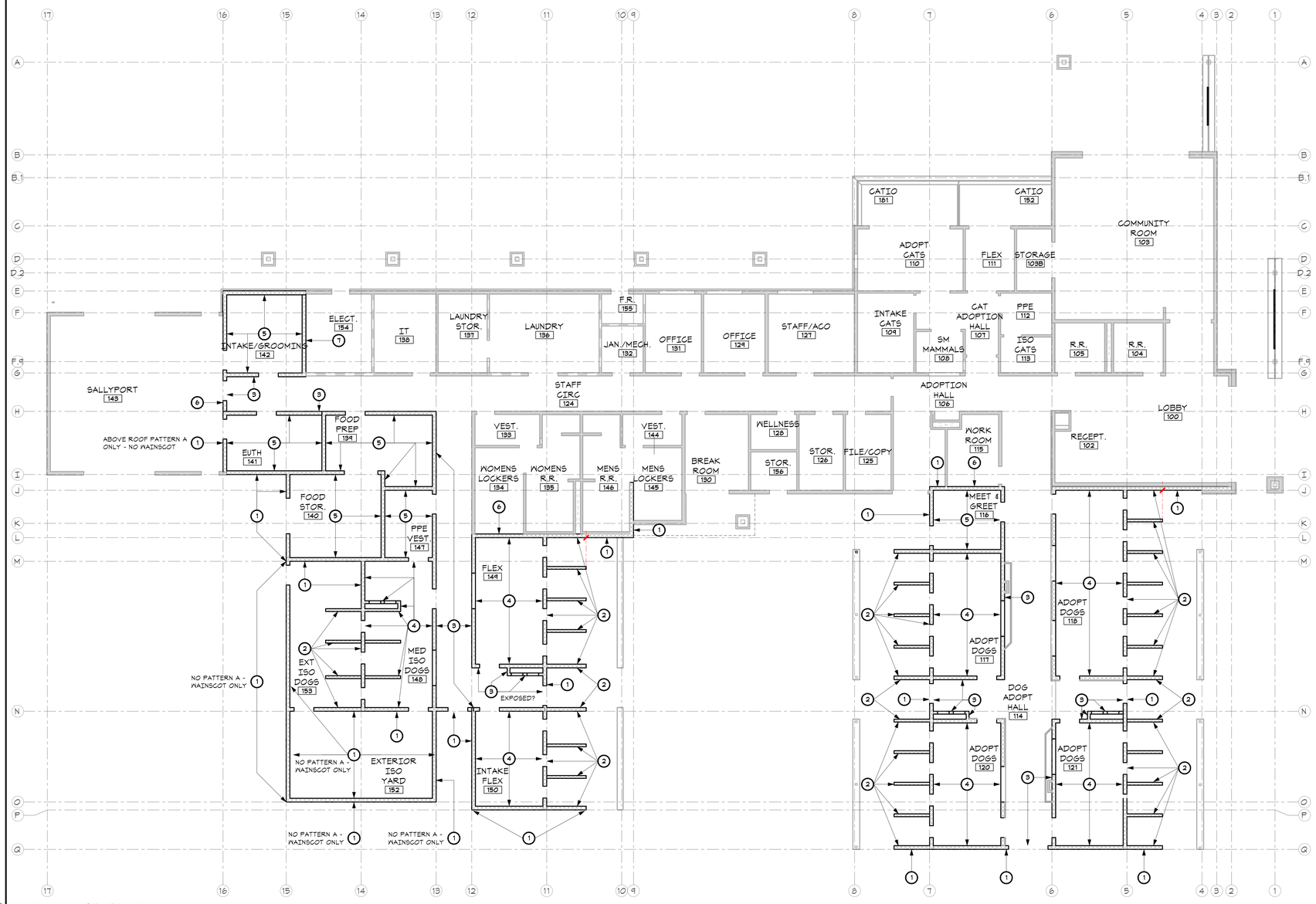
4 TYP. CMU PATTERN (ERG WAINSCOT)



5 TYP. CMU PATTERN 5 (EPOXY PAINT TO 6" ABOVE CEILING)



6 TYP. CMU PATTERN 6 (EXPOSED)



1 CMU FINISH PLAN
A9.05 1/8" = 1'-0"

LEGEND

- CMU Color A - GROUND FACE OR PRECISION Basalite #L-388
- CMU Color B - GROUND FACE Basalite #S-515
- CMU Color B - SPLIT FACE Basalite #S-515
- CMU Color C - GROUND FACE Basalite #A-55
- CMU Color C - SPLIT FACE Basalite #A-55
- CMU Color D - SPLIT FACE Basalite #A-86
- CMU - PRECISION WITH EPOXY RESINOUS COATING PER FINISH SCHEDULE
- CMU GROUND FACE WITH HPC EPOXY PAINT PER FINISH SCHEDULE

NOTES:
1. ALL INTERIOR FACES OF WALLS TO BE GROUND FACE - U.O.N.
2. CMU IS TO BE PATTERN 06 - U.O.N.
3. ADD ANTI-GRAFFITI FINISH ON EXTERIOR CMU FACES, FULL HEIGHT AND EA. FACE - U.O.N.

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

LICENSED ARCHITECT
C28388
September 2027
STATE OF CALIFORNIA

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/2026

CMU FINISH PLAN

A9.05

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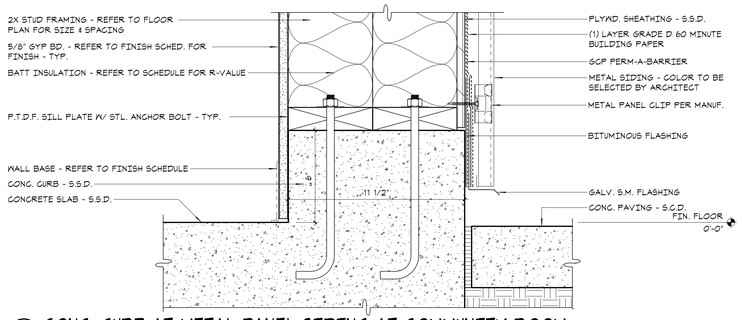
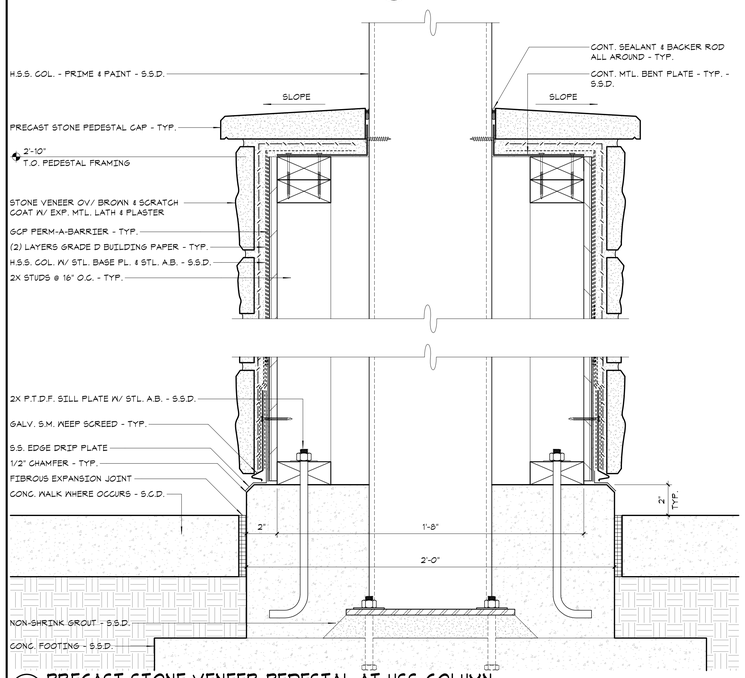
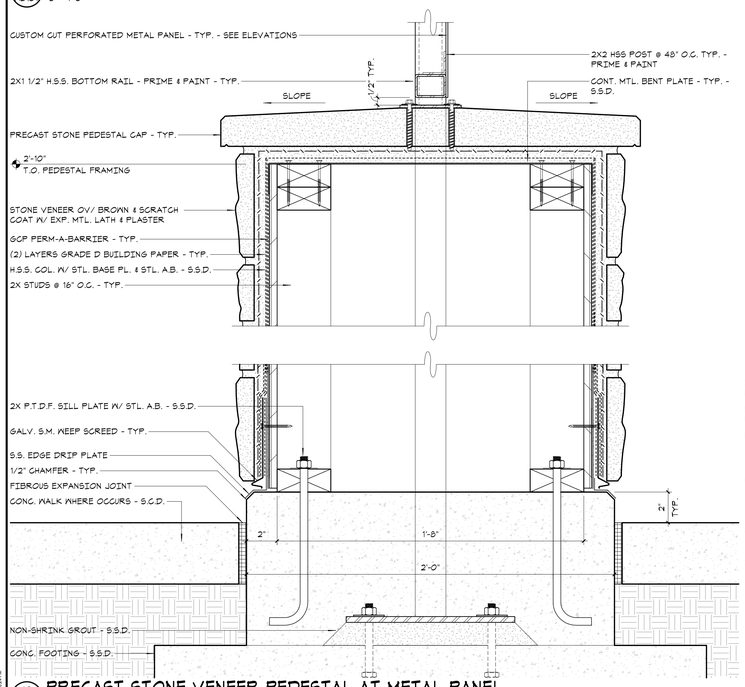


21 AD.01 CONC. CURB AT METAL PANEL SIDING AT COMMUNITY ROOM
3" = 1'-0"



28 AD.01 PRECAST STONE VENEER PEDESTAL AT HSS COLUMN
3" = 1'-0"



13 AD.01 PRECAST STONE VENEER PEDESTAL AT METAL PANEL
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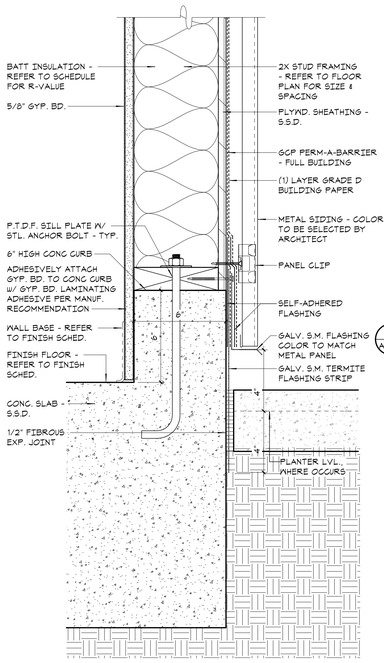
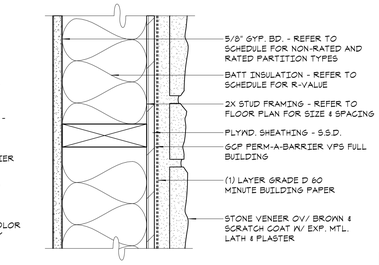
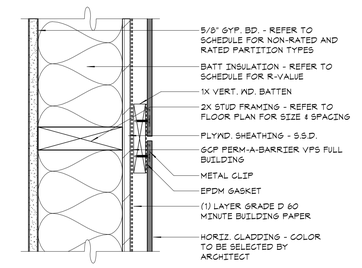


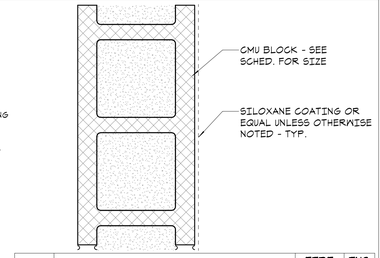
12 AD.01 CONC. CURB AT METAL PANEL SIDING
3" = 1'-0"



6 AD.01 EXT. WALL AT STONE VENEER
3" = 1'-0"

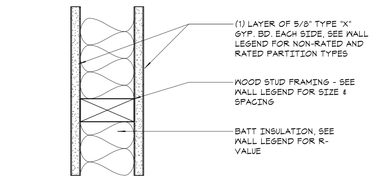


7 AD.01 EXT. WALL AT HORIZ. CLADDING
3" = 1'-0"



TYPE	DESCRIPTION	FIRE RTNG.	INS UL.
CMB.3	8x8x16 CMU WALL PARTIAL HT	N/A	N/A
CMB.1	8x8x16 CMU WALL FULL HT	N/A	N/A
CMB.3	8x8x16 CMU WALL PARTIAL HT	N/A	N/A

1 AD.01 CMU WALL TYPE
3" = 1'-0"

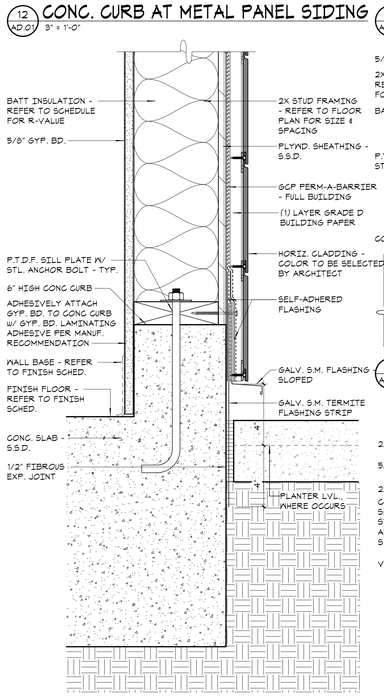


TYPE	DESCRIPTION	FIRE RTNG.	INS UL.
W4.1	2x4 WOOD STUD @ 16" O.C. FULL HT	N/A	R-15
W4.2	2x4 WOOD STUD @ 16" O.C. 8" ABV CLG.	N/A	R-15
W6.1	2x6 WOOD STUD @ 16" O.C. FULL HT	N/A	R-19
W6.2	2x6 WOOD STUD @ 16" O.C. 8" ABV CLG.	N/A	R-19
W6.3	2x6 WOOD STUD @ 16" O.C. PARTIAL HT	N/A	R-19
W8.3	2x8 WOOD STUD @ 16" O.C. PARTIAL HT	N/A	R-19

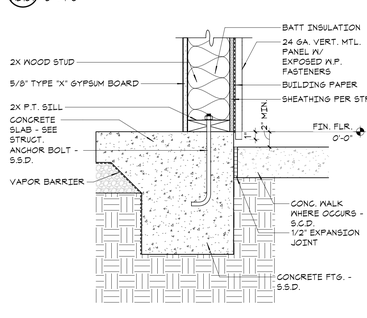
2 AD.01 INTERIOR WOOD STUD WALL TYPE
3" = 1'-0"

TYPE	DESCRIPTION	FIRE RTNG.	INSUL.
RC.1	1-1/2" DEEP x 25 GA. RESILIENT HAT CHANNEL @ 24" O.C.	N/A	R-7.5

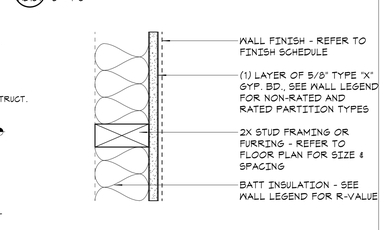
3 AD.01 RESILIENT CHANNEL FURR WALL TYPE
3" = 1'-0"



14 AD.01 CONC. CURB AT HORIZ. CLADDING
3" = 1'-0"

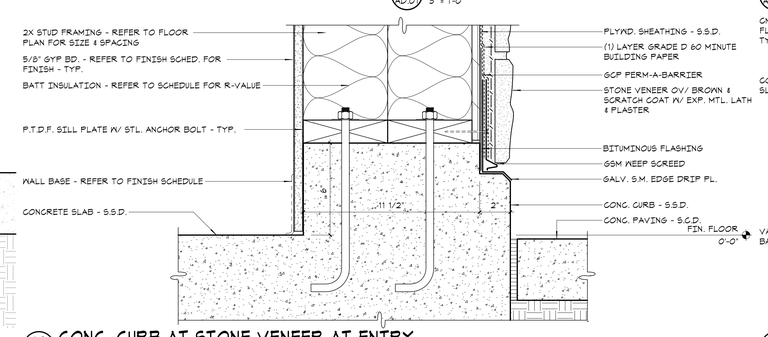


9 AD.01 CORRUGATED MTL. PNL. @ WALL BASE
1 1/2" = 1'-0"

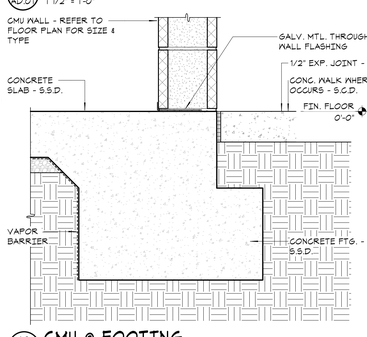


TYPE	DESCRIPTION	FIRE RTNG.	INS UL.
W4.2	2x4 WOOD STUD @ 16" O.C. 8" ABV CLG.	N/A	R-15

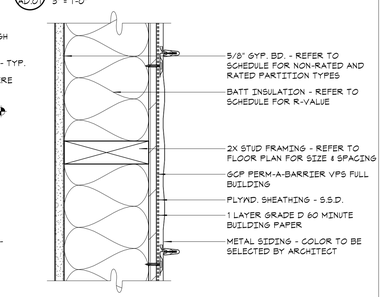
4 AD.01 INTERIOR WOOD STUD WALL TYPE
3" = 1'-0"



20 AD.01 CONC. CURB AT STONE VENEER AT ENTRY
3" = 1'-0"



10 AD.01 CMU @ FOOTING
1 1/2" = 1'-0"



5 AD.01 EXT. WALL AT METAL PANEL SIDING
3" = 1'-0"

LDA DESIGNERS & ARCHITECTS

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Designers & Architects
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C28388
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Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/2026

WALL DETAILS

AD.01

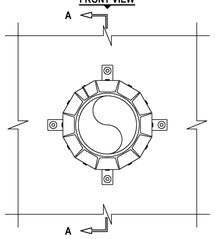
2022.05.10 5:01:47 PM

WL 2078r 080321

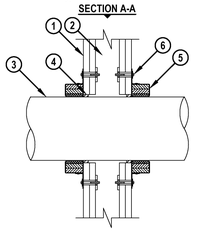
UL SYSTEM NO. W-L-2078
PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY

F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR., 1-HR., OR 2-HR.
L-RATING AT AMBIENT = 3 CFM / SQ FT
L-RATING AT 400° F = LESS THAN 1 CFM / SQ FT

FRONT VIEW



SECTION A-A



HILTI, Inc.
Plano, Texas USA (800) 879-8000

Hilti Firestop Systems

Sheet	1 of 2
Scale	5/32" = 1"
Date	June 03, 2021

Drawing No. **WL 2078r**

Saving Lives through Innovation and Education

WL 2078r 080321

UL SYSTEM NO. W-L-2078
PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY

F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR., 1-HR., OR 2-HR.
L-RATING AT AMBIENT = 3 CFM / SQ FT
L-RATING AT 400° F = LESS THAN 1 CFM / SQ FT

1. GYPSUM WALL ASSEMBLY (UL CLASSIFIED U300, U400, OR V400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. [NOT SHOWN] WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (ALSO SEE NOTE NO. 3 BELOW) :
   A. MAXIMUM 10" NOMINAL DIAMETER PVC PLASTIC PIPE (CELLULAR OR SOLID CORE).
   B. MAXIMUM 10" NOMINAL DIAMETER CPVC PLASTIC PIPE (CLOSED PIPING SYSTEM ONLY).
   C. MAXIMUM 6" NOMINAL DIAMETER ABS PLASTIC PIPE (CELLULAR OR SOLID CORE).
   D. MAXIMUM 6" NOMINAL DIAMETER FRPP PLASTIC PIPE.
   E. MAXIMUM 4" NOMINAL DIAMETER PVDF PLASTIC PIPE.
   F. MAXIMUM 4" NOMINAL DIAMETER CROSS-LINKED POLYETHYLENE (PEX) TUBING (SDR 9) (AQUAPEX OR WIRSBO HEPEX BY UPONOR) (CLOSED PIPING SYSTEM ONLY).
4. HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT :
   A. [OPTIONAL] MINIMUM 1/4" DEPTH OF SEALANT INSTALLED ON PIPES NOMINAL 6" AND SMALLER. EXCEPTION : WHEN ITEM 3F IS INSTALLED, SEALANT IS REQUIRED.
   B. MINIMUM 1/2" DEPTH OF SEALANT INSTALLED ON PIPES LARGER THAN NOMINAL 6".
5. HILTI CP 643N OR CP 644 FIRESTOP COLLAR WITH FASTENING HOOKS (SEE TABLE BELOW).
6. ATTACH EACH FASTENING HOOK TO WALL ASSEMBLY WITH HILTI 3/16" TOGGLER BOLTS AND WASHERS. FOR PIPES 4" OR SMALLER, COLLARS MAY BE FASTENED WITH NO. 10 x 1-1/2" LONG DRYWALL OR LAMINATE SCREWS WITH 3/4" STEEL WASHERS.

NOMINAL PIPE DIAMETER	PRODUCT DESCRIPTION	NO. OF FASTENING HOOKS	MAXIMUM HOLE SIZE
1-1/2"	CP 643 50/1.5" N	2	2-1/8"
2"	CP 643 63/2" N	2	2-5/8"
3"	CP 643 90/3" N	3	4"
4"	CP 643 110/4" N	3	5"
6"	CP 643 160/6" N	4	7"
8"	CP 644 200/8"	10	9-1/2"
10"	CP 644 250/10"	12	11-1/2"

NOTES : 1. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/2".
2. CLOSED OR VENTED PIPING SYSTEM (PVC, ABS, FRPP = SCHEDULE 40; CPVC = SDR 13.5; PVDF = SDR 32.5).
3. L-RATINGS ONLY APPLY ON PIPES NOMINAL 6" AND SMALLER, WHEN HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT IS USED.

HILTI, Inc.
Plano, Texas USA (800) 879-8000

Hilti Firestop Systems

Sheet	2 of 2
Scale	-
Date	June 03, 2021

Drawing No. **WL 2078r**

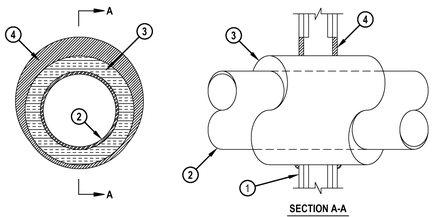
Saving Lives through Innovation and Education

WL 5029

System No. W-L-5029

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)	F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)
T Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)	FT Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
L Rating At Ambient — 4 CFM/Sq Ft	FH Ratings — 1, 2 and 3 Hr (See Items 1, 2 and 4)
L Rating At 400 F — Less Than 1 CFM/Sq Ft	FTH Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
	L Rating At Ambient — 4 CFM/Sq Ft
	L Rating At 400 F — Less Than 1 CFM/Sq Ft



1. Wall Assembly — The 1, 2 or 3 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide for 1 and 2 hr F and FH rating and 3-1/2 in. (89 mm) wide for 3 hr F and FH rating and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Min 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. (473 mm). The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One metallic pipe or tubing to be installed within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper tube shall not exceed 4 in. (102 mm).
   D. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper pipe shall not exceed 4 in. (102 mm).

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Hilti Firestop Systems

Page: 1 of 2

System No. W-L-5029

WL 5029

3. Pipe Covering* — Nom 1, 1-1/2 or 2 in. (25, 38 or 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. For 1 and 2 hr F and FH Ratings, the annular space between insulated penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).
   See Pipe and Equipment Covering — Materials (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
   The hourly T, FT, FTH Ratings of the firestop system are 1/2 hr for 1 hr rated walls and 1 hr for 2 hr rated walls. For 3 hr rated walls, the hourly T, FT and FTH Ratings when steel and iron pipes are used are 1 hr. For 3 hr rated walls, the hourly T, FT and FTH Ratings when copper penetrants are used are 1-1/4 hr for 2 in. (51 mm) thick pipe covering and 0 hr for pipe covering thickness less than 2 in. (51 mm).
3A. Pipe Covering* — (Not Shown) — As an alternate to Item 3, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. When the alternate pipe covering is used, the T and FT Rating shall be as specified in item 3 above.
   See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4. Fill, Void or Cavity Material* — Sealant — For 1 and 2 hr F and FH Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 3 hr F and FH Rating, min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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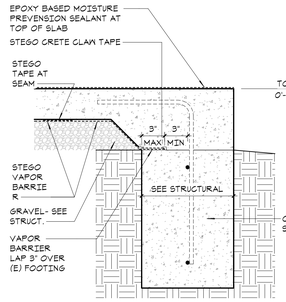
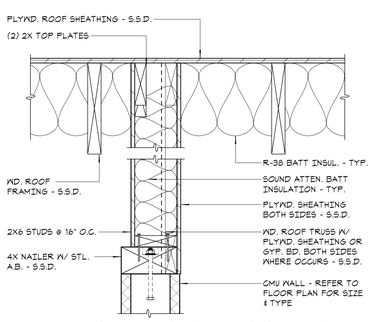
Hilti Firestop Systems

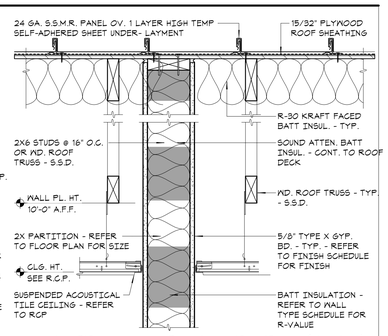
Page: 2 of 2



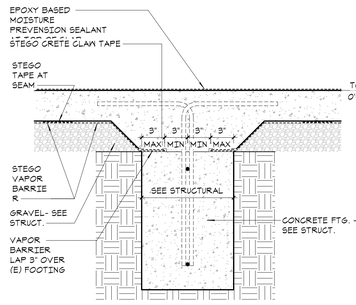
11 AD.02 VAPOR BARRIER AT PERIMETER FTG. 1 1/2" = 1'-0"



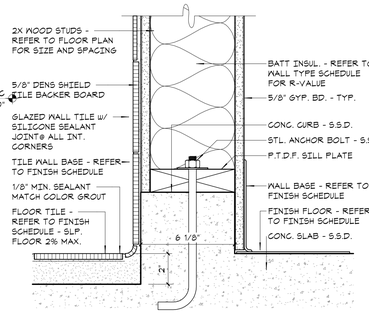
6 AD.02 WALL TO ROOF DECK AT T.O. OF CMU 1 1/2" = 1'-0"



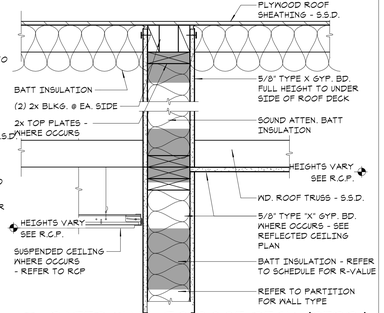
1 AD.02 RATED WALL TO ROOF DECK (PARA) 1 1/2" = 1'-0"



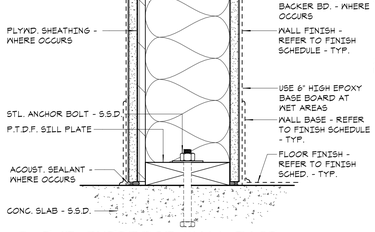
12 AD.02 VAPOR BARRIER AT INTERIOR FTG. 1 1/2" = 1'-0"



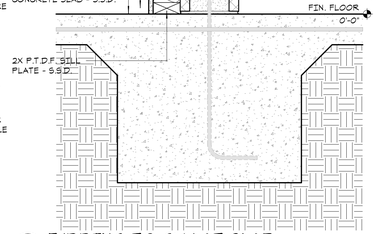
7 AD.02 INTERIOR CURB AT TILE/GYP. BD. 3" = 1'-0"



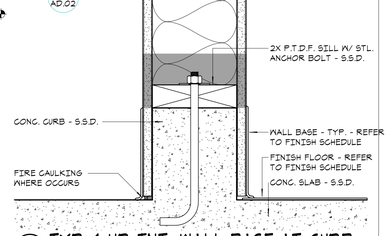
2 AD.02 RATED WALL TO ROOF DECK (PERP.) 1 1/2" = 1'-0"



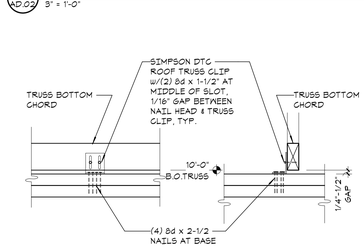
10 AD.02 TYP. INTERIOR WALL BASE 3" = 1'-0"



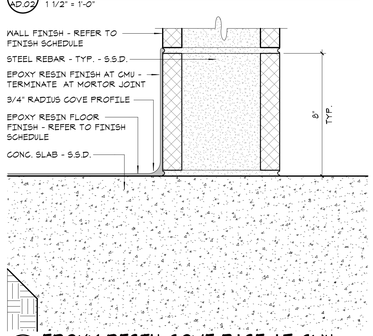
8 AD.02 FURRING TO CMU AT SLAB 1 1/2" = 1'-0"



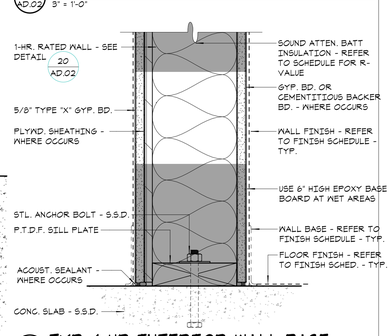
3 AD.02 TYP. 1-HR INT. WALL BASE AT CURB 3" = 1'-0"



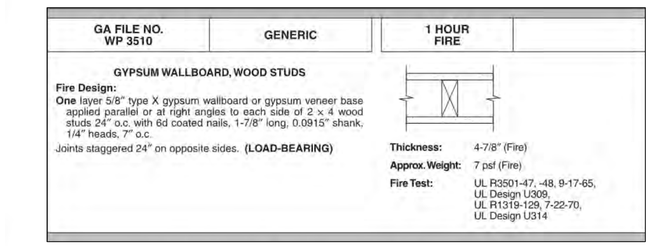
14 AD.02 NON-LOAD BEARING WALL TO TRUSS 1 1/2" = 1'-0"



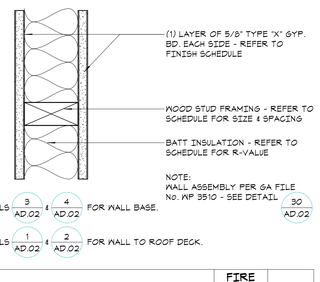
9 AD.02 EPOXY RESIN COVE BASE AT CMU 3" = 1'-0"



4 AD.02 TYP. 1-HR INTERIOR WALL BASE 3" = 1'-0"



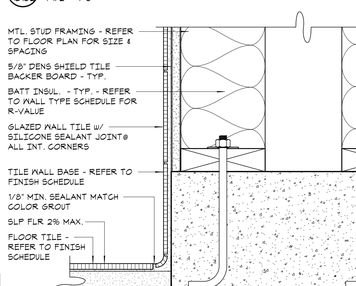
29 AD.02 FIRE STOPPING SYSTEM 12" = 1'-0"



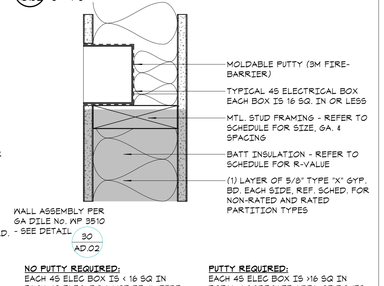
TYPE	DESCRIPTION	FIRE RATING	INSUL.
1-HR W4.1	2x4 WOOD STUD @ 16" O.C. FULL HT	1 HOUR	R-15
1-HR W6.1	2x6 WOOD STUD @ 16" O.C. FULL HT	1 HOUR	R-19

30 AD.02 RATED WALL LISTING INFORMATION 3" = 1'-0"

20 AD.02 1-HR INT. WOOD STUD WALL TYPE 3" = 1'-0"



15 AD.02 INTERIOR WIDE CURB AT TILE/TILE 3" = 1'-0"



NO PUTTY REQUIRED:
EACH 4S ELEC BOX IS < 16 SQ IN EACH 4S ELEC. BOXMUST BE UL FIRE-RATED AND LISTED FOR USE IN A FIRE-RATED ASSEMBLY.

PUTTY REQUIRED:
EACH 4S ELEC BOX IS >16 SQ IN TOTAL AGGREGATE AREA OF BOXES IN WALL EXCEED 100 SQ. FT. THE HORIZONTAL SPACING BETWEEN BOXES IS LESS THAN 24".

5 AD.02 RECEPTACLE AT RATED WALL 3" = 1'-0"

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

LICENSED ARCHITECT — C28388 — September 2027 — STATE OF CALIFORNIA

Client:
CITY OF LATHROP
390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER
15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

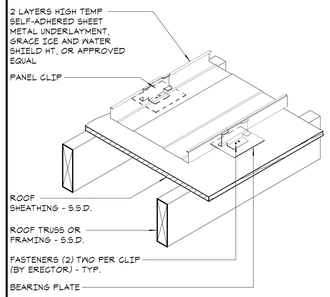
No.	Description	Date	By

BID SET
6/23/2026

WALL DETAILS

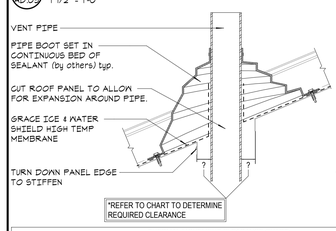
AD.02

2020-08 S10:21 PM



26 AD.03 METAL SPAN ROOF

1 1/2" = 1'-0"



THERMAL MOVEMENT CLEARANCE CHART:

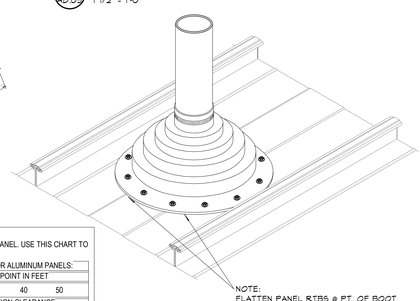
THERMAL MOVEMENT CLEARANCES ARE A FUNCTION OF MATERIAL TYPE AND LENGTH OF PANEL. USE THIS CHART TO DETERMINE THE REQUIRED CLEARANCE FOR THIS CONDITION.

TOTAL MOVEMENT (INCHES) FOR STEEL PANELS:				
DISTANCE FROM FIXED POINT IN FEET				
10	20	30	40	50
EXPANSION/CONTRACTION CLEARANCE				
.145	.289	.434	.579	.724

TOTAL MOVEMENT (INCHES) FOR ALUMINUM PANELS:				
DISTANCE FROM FIXED POINT IN FEET				
10	20	30	40	50
EXPANSION/CONTRACTION CLEARANCE				
.279	.557	.836	1.115	1.393

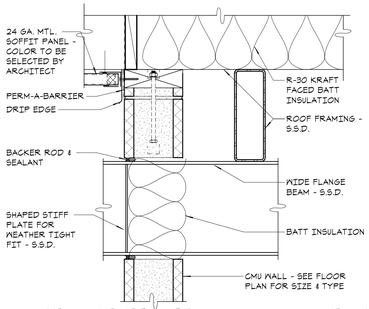
21 AD.03 METAL SOFFIT PANEL / SPLICE

1 1/2" = 1'-0"



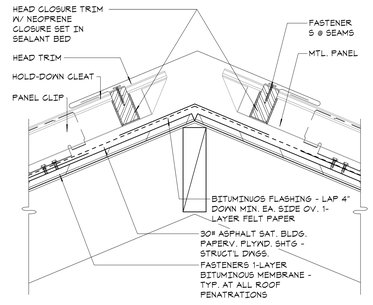
16 AD.03 BEAM PENETRATION @ CMU WALL EAVE

1 1/2" = 1'-0"



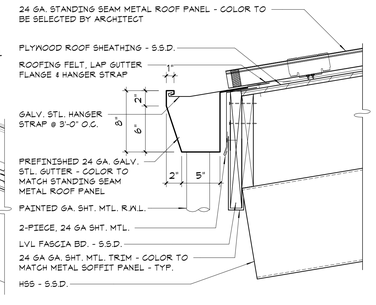
11 AD.03 ROOF RIDGE

3" = 1'-0"



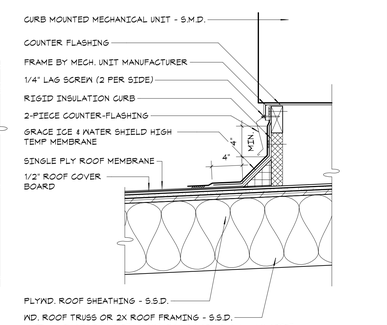
6 AD.03 ENTRY ROOF FASCIA AT HSS

1 1/2" = 1'-0"



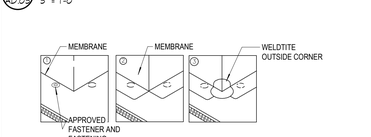
1 AD.03 CURB AT MECHANICAL UNIT

1 1/2" = 1'-0"



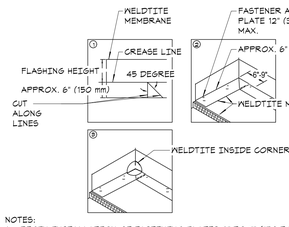
27 AD.03 ROOF PENETRATION BOOT AT STANDING SEAM METAL ROOF

3" = 1'-0"



NOTES:
1. BEGIN INSTALLATION OF FASTENING PLATES APPROXIMATELY 6" (150 mm) FROM CORNER.
2. POSITION FASTENING PLATES 1/2" TO 1" (13 mm to 25 mm) FROM EDGE OF DECK MEMBRANE.
3. APPROXIMATELY 1/8" (3 mm) DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED MEMBRANE.

PRE-MOLDED OUTSIDE CORNER	WELDTITE UNIVERSAL 15C

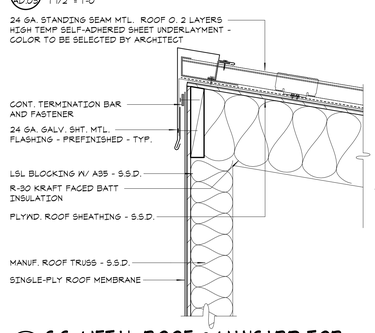


NOTES:
1. BEGIN INSTALLATION OF FASTENING PLATES 6" TO 9" (150 TO 230 mm) FROM THE CORNER.
2. POSITION FASTENING PLATES 1/2" TO 1" (13 mm to 25 mm) FROM EDGE OF MEMBRANE.
3. APPROXIMATELY 1/8" (3 mm) DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED MEMBRANE.

PRE-MOLDED INSIDE CORNER FLASHING	WELDTITE UNIVERSAL 15A OR EQUAL

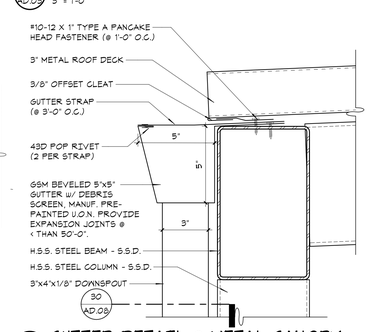
17 AD.03 S.S. METAL ROOF @ MANSARD TOP

1 1/2" = 1'-0"



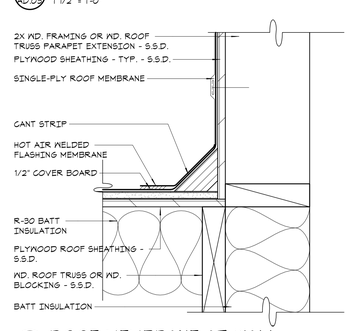
12 AD.03 GSM PARAPET CAP @ PHENOLIC SIDING

3" = 1'-0"



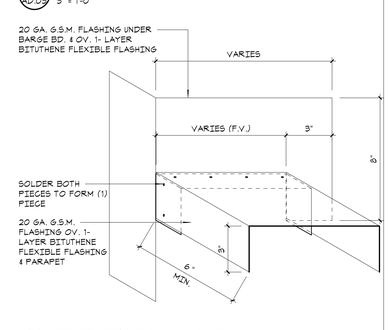
7 AD.03 METAL SOFFIT PANEL AT HSS RAFTER

1 1/2" = 1'-0"



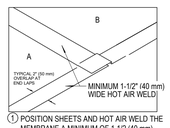
2 AD.03 ENTRY ROOF FASCIA AT RAKE

3" = 1'-0"

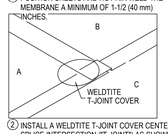


28 AD.03 SINGLE-PLY MOLD OUTSIDE CORNER

6" = 1'-0"



1 POSITION SHEETS AND HOT AIR WELD THE MEMBRANE A MINIMUM OF 1-1/2 (40 mm) INCHES.

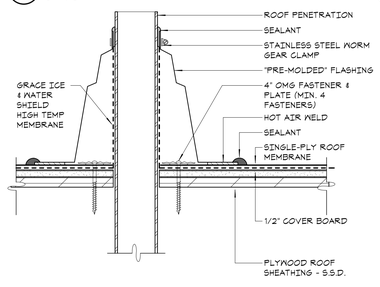


2 INSTALL A WELDTITE T-JOINT COVER CENTERED OVER SPLICE INTERSECTION ("T-JOINT") AS SHOWN.

SPLICE INTERSECTION WITH 40-MIL OR 48-MIL THICK MEMBRANE	WELDTITE ADHERED

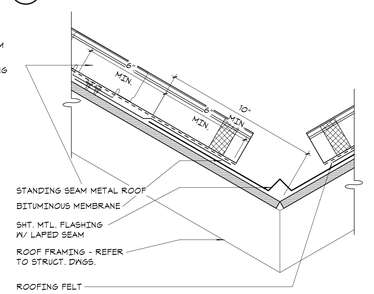
23 AD.03 SINGLE-PLY MOLD INSIDE CORNER

6" = 1'-0"



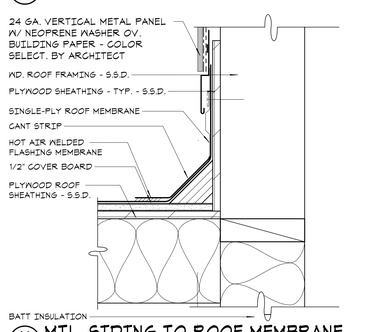
18 AD.03 S.S. METAL ROOF @ MANSARD TOP

1 1/2" = 1'-0"



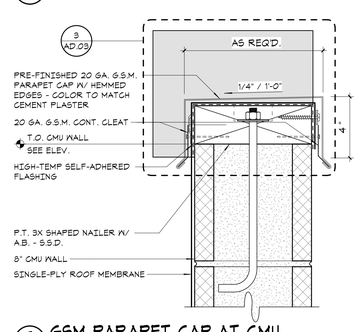
13 AD.03 GUTTER DETAIL @ METAL CANOPY

3" = 1'-0"



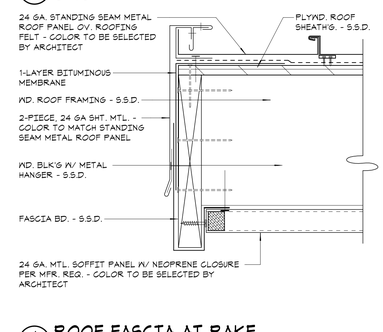
8 AD.03 ROOF MEMBRANE AT WALL

3" = 1'-0"



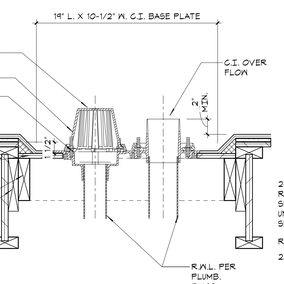
3 AD.03 ISOMETRIC FLASHING

3" = 1'-0"



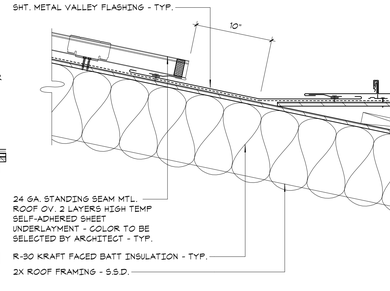
29 AD.03 SINGLE-PLY SPLICE

6" = 1'-0"



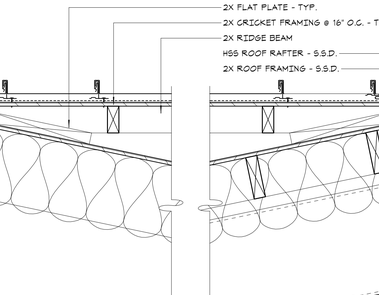
24 AD.03 PENETRATION AT SINGLE PLY ROOF

3" = 1'-0"



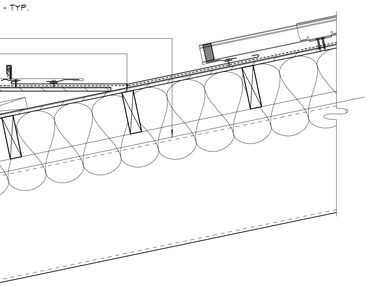
19 AD.03 VALLEY FLASHING

3" = 1'-0"



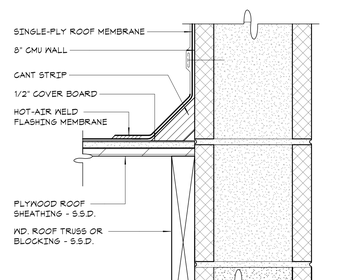
14 AD.03 MTL. SIDING TO ROOF MEMBRANE

3" = 1'-0"



9 AD.03 GSM PARAPET CAP AT CMU

3" = 1'-0"



30 AD.03 ROOF DRAIN & OVERFLOW

1 1/2" = 1'-0"

25 AD.03 WD. FRAMED CRICKET OV. ROOF DECK

1 1/2" = 1'-0"

10 AD.03 ROOF MEMBRANE AT CMU

3" = 1'-0"

5 AD.03 METAL ROOF AT FASCIA

1 1/2" = 1'-0"

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

LICENSED ARCHITECT — C28388 — September 2027 — STATE OF CALIFORNIA

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Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
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Checked By: Checker

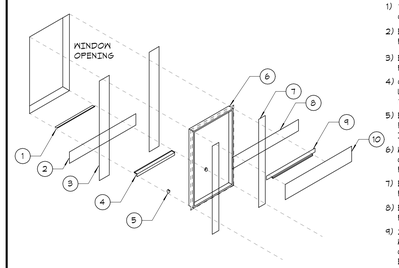
No.	Description	Date	By

BID SET
6/23/2026

ROOF DETAILS

AD.03

6/23/2026 3:05:27 PM

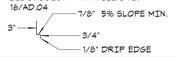


1) 1/2"X2"XOPENING WIDTH 24GA. GALV. SHT. MTL. SILL DAM
2) BITUMINOUS BASE SILL FLASHING PER MANUF. SPECIFICATIONS
3) BITUMINOUS BASE JAMB FLASHING PER MANUF. SPECIFICATIONS
4) 6 S.M. SILL DAM FLASHING - LEG UP ON THREE SIDES - SEE DTL. 11/AD.04
5) BITUMINOUS CIRCLE CORNER FLASHING - TYP. @ SILL INSIDE & OUTSIDE CORNERS
6) WINDOW - EMBED IN CONT. BEAD OF SEALANT - SEAL FASTENERS - PER MANUF. SPECIFICATIONS
7) BITUMINOUS JAMB FLASHING PER MANUF. SPECIFICATIONS
8) BITUMINOUS BASE HEAD FLASHING PER MANUF. SPECIFICATIONS
9) 24GA. GALV. SHT. MTL. FLASHING W/ SOLDERED 'END DAMS' - WIDTH OF WINDOW - PRIME & PAINT BLDS. COLOR - TYP. SEE DTL. 16/AD.04
10) BITUMINOUS HEAD FLASHING PER MANUF. SPECIFICATIONS
11) INTEGRATE WINDOW FLASHING WEATHER-BOARD FASHION AT HEAD & SILL W/ BUILDING PAPER PER MANUF. SPECIFICATIONS

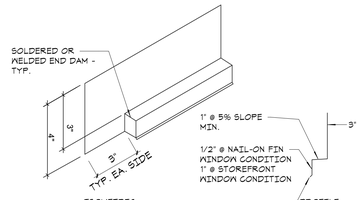
*** NOTE ***
FLASHING SEQUENCE IS DIAGRAMATIC. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR WIDTH & LAP DIMENSIONS OF BITUMINOUS FLASHING, BUILDING PAPER AND SEALANT.

*** NOTE ***
LAP ALL SHEET METAL FLASHING 3" (MIN.) W/ BITUMINOUS MEMBRANE FLASHING. -TYP. U.O.N.

*** NOTE ***
FLASHING DETAILS ARE DIAGRAMATIC. ALL FLASHING SHALL BE CONSTRUCTED IN ACCORDANCE W/ SHEET METAL & AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA) MANUAL



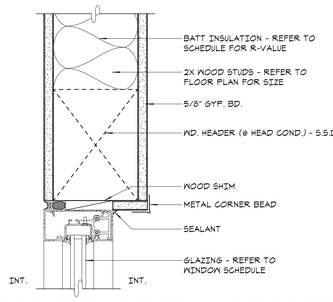
27 AD.04 TYP. WINDOW FLASHING SEQUENCE
1" = 1'-0"



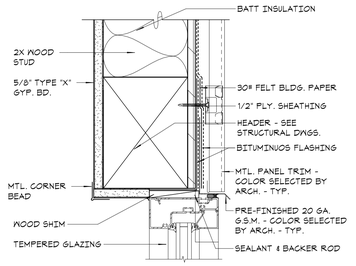
NOTE
GALV. SHT. MTL. FLASHING @ HOLLOW STEEL DOORS - TYP. ALUMINUM FLASHING @ WINDOWS

*** NOTE ***
FLASHING DETAILS ARE DIAGRAMATIC. ALL FLASHING SHALL BE CONSTRUCTED IN ACCORDANCE W/ SHEET METAL & AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA) MANUAL

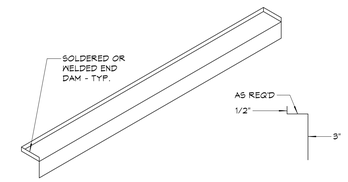
16 AD.04 TYP. OPENING HEAD FLASHING
3" = 1'-0"



3 AD.04 S.F. HEAD/JAMB/SILL @ GYP. BOARD
3" = 1'-0"



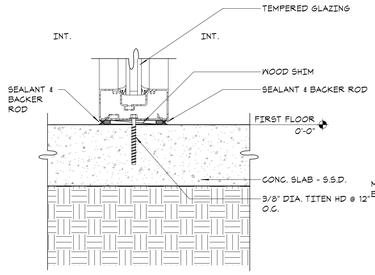
19 AD.04 S.F. HEAD @ METAL PANEL
3" = 1'-0"



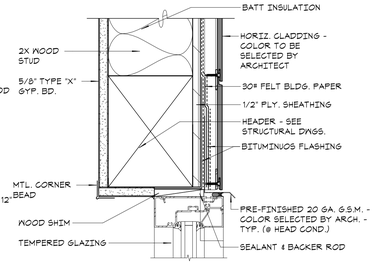
NOTE
FLASHING @ WINDOWS - TYP.

*** NOTE ***
FLASHING DETAILS ARE DIAGRAMATIC. ALL FLASHING SHALL BE CONSTRUCTED IN ACCORDANCE W/ SHEET METAL & AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA) MANUAL

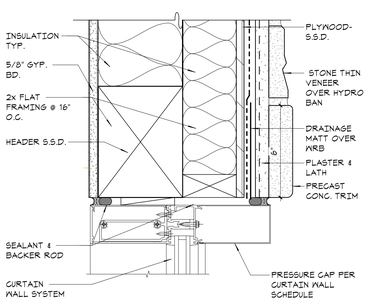
17 AD.04 TYP. WINDOW SILL FLASHING
3" = 1'-0"



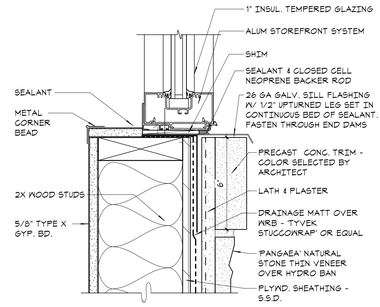
20 AD.04 S.F. SILL AT INTERIOR
3" = 1'-0"



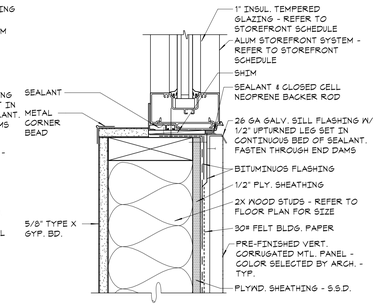
7 AD.04 S.F. HEAD @ HORIZONTAL CLADDING
3" = 1'-0"



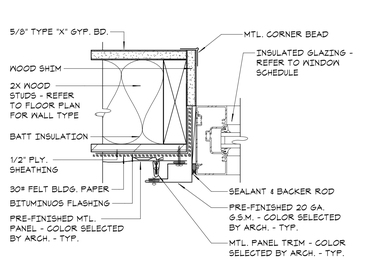
18 AD.04 CURTAIN WALL HEAD @ STONE VENEER
3" = 1'-0"



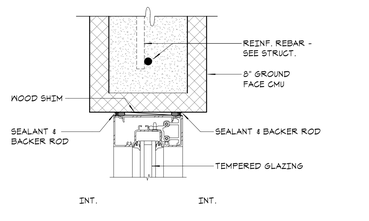
13 AD.04 S.F. SILL @ STONE VENEER
3" = 1'-0"



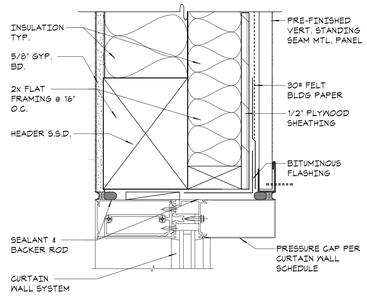
8 AD.04 S.F. SILL @ METAL PANEL
3" = 1'-0"



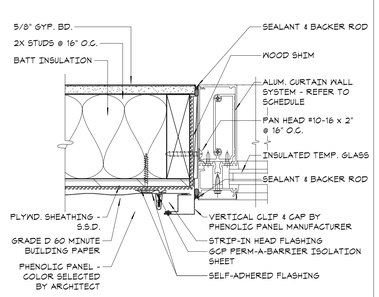
24 AD.04 S.F. JAMB @ MTL. PANEL
3" = 1'-0"



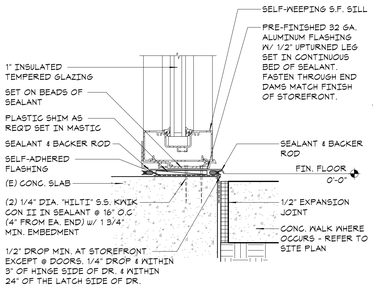
14 AD.04 S.F. HEAD/JAMB @ CMU
3" = 1'-0"



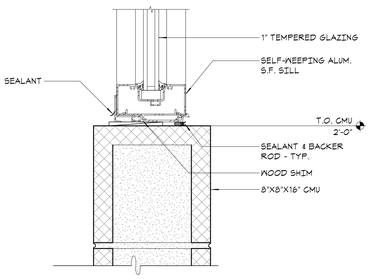
9 AD.04 CURTAIN WALL HEAD @ METAL SIDING
3" = 1'-0"



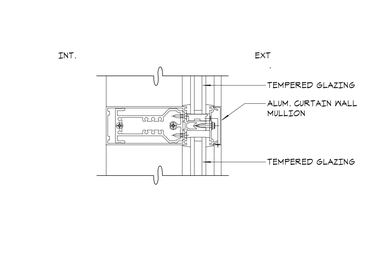
4 AD.04 CURTAIN WALL JAMB AT MTL. PANEL
3" = 1'-0"



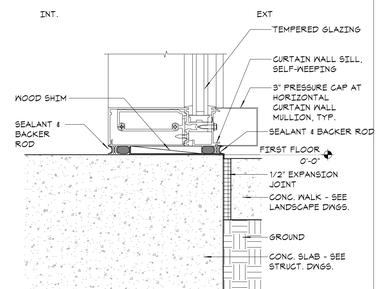
25 AD.04 S.F. WINDOW SILL @ CONC. SLAB
3" = 1'-0"



15 AD.04 S.F. WINDOW SILL @ CMU
3" = 1'-0"



10 AD.04 CURTAIN WALL MULLION
3" = 1'-0"



5 AD.04 CURTAIN WALL SILL
3" = 1'-0"

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

LICENSED ARCHITECT — C28388 — September 2027 — STATE OF CALIFORNIA

Client:
CITY OF LATHROP
390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER
15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

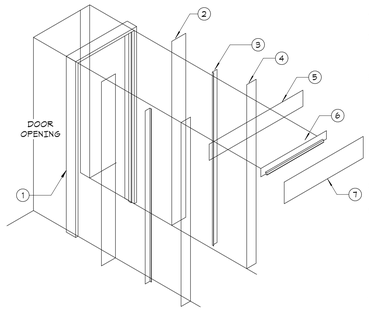
No.	Description	Date	By

BID SET
6/23/2026

WINDOW DETAILS

AD.04

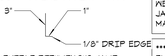
2022/08/5 3:07:28 PM



1) DOOR - SEE DOOR SCHEDULE

2) FLEXIBLE BITUMINOUS BASE JAMB FLASHING PER MANUF. SPECIFICATIONS

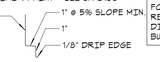
3) FLEXIBLE FLASHING - HGT. OF DOOR - PRIME & PAINT - TYP.



4) FLEXIBLE BITUMINOUS JAMB FLASHING PER MANUF. SPECIFICATIONS

5) BITUMINOUS BASE HEAD FLASHING PER MANUF. SPECIFICATIONS

6) FLEXIBLE FLASHING W/ SOLDERED 'END DAMS' - WIDTH OF DOOR - PRIME & PAINT - SEE 3/AD.03



7) FLEXIBLE BITUMINOUS HEAD FLASHING PER MANUF SPECIFICATIONS

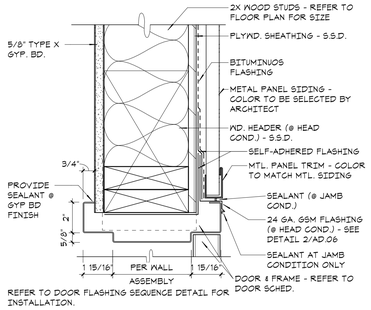
NOTE
LAP ALL SHEET METAL FLASHINH 3" (MIN.) W/ BITUMINOUS MEMBRANE FLASHING-TYP. U.O.N.

NOTE
INTEGRATE WINDOW FLASHING WEATHER-BOARD FASHION AT HEAD, JAMB, & SILL W/ BUILDING PAPER PER MANUF. SPECIFICATIONS

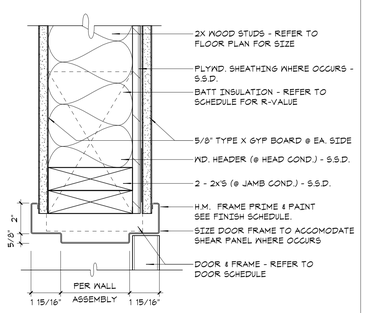
*** NOTE ***
FLASHING DETAILS ARE DIAGRAMATIC. ALL FLASHING SHALL BE CONSTRUCTED IN ACCORDANCE W/ SHEET METAL & AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA) MANUAL

*** NOTE ***
FLASHING SEQUENCE IS DIAGRAMATIC. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR WIDTH & LAP DIMENSIONS OF BITUMINOUS FLASHING, BUILDING PAPER AND SEALANT.

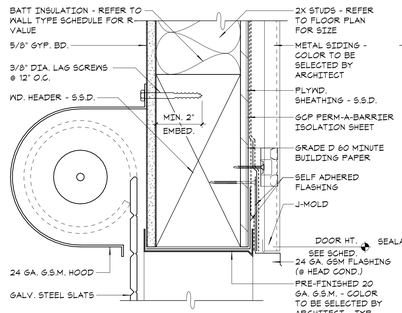
26 AD.05 **TYP. DOOR FLASHING SEQUENCE**
1/2" = 1'-0"



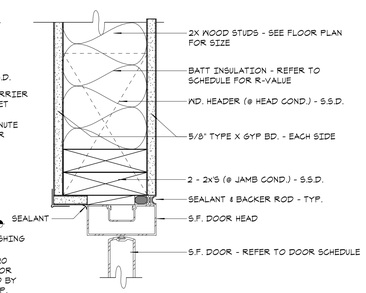
6 AD.05 **H.M. DOOR HEAD/JAMB @ MP/GB**
3" = 1'-0"



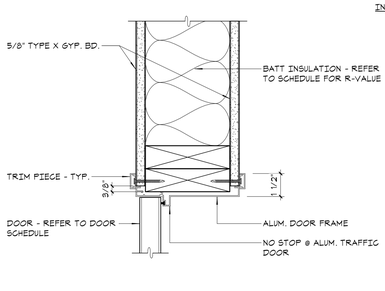
1 AD.05 **INT. H.M. DOOR HEAD/JAMB @ GYP. BD.**
3" = 1'-0"



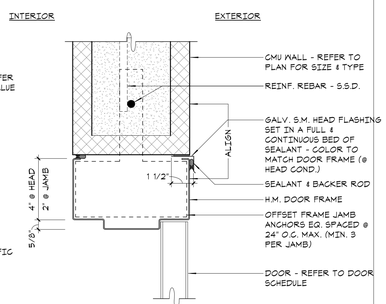
17 AD.05 **OVERHEAD COILING DOOR HEAD**
3" = 1'-0"



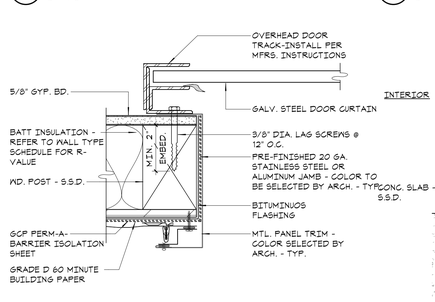
12 AD.05 **S.F. DOOR HEAD_JAMB @ GYP. BD.**
3" = 1'-0"



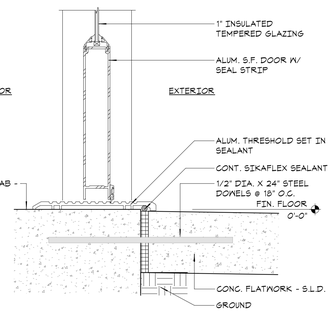
7 AD.05 **ALUM. DOOR FRAME HEAD/JAMB**
3" = 1'-0"



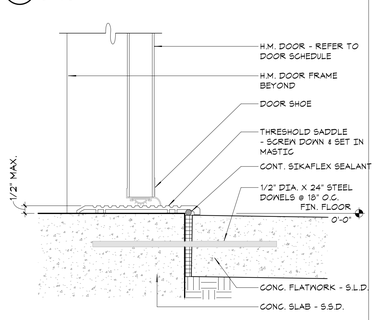
2 AD.05 **H.M. DOOR HEAD/JAMB @ CMU**
3" = 1'-0"



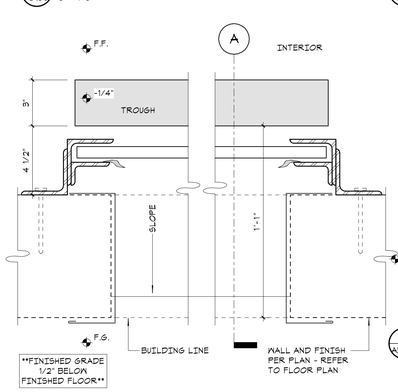
18 AD.05 **OVERHEAD COILING DOOR JAMB**
3" = 1'-0"



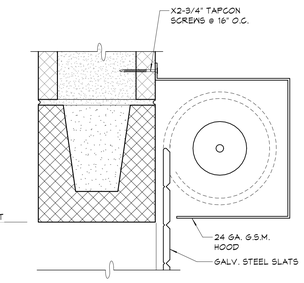
13 AD.05 **S.F. DOOR THRESHOLD**
3" = 1'-0"

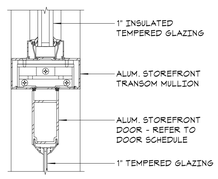


3 AD.05 **H.M. DOOR THRESHOLD**
3" = 1'-0"

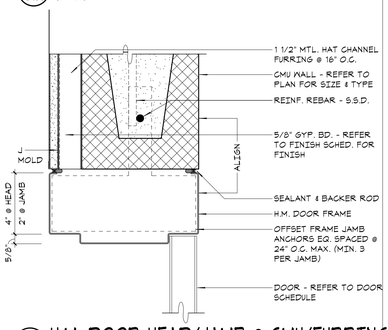


14 AD.05 **OVERHEAD COIL DOOR HEAD**
3" = 1'-0"

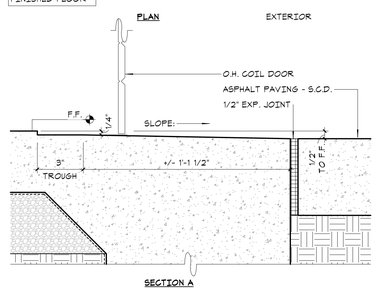




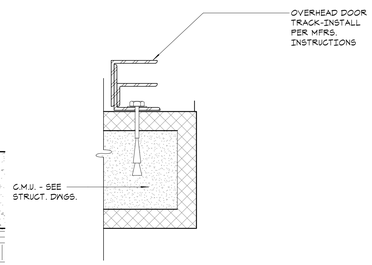
9 AD.05 **S.F. DOOR HEAD @ TRANSOM**
3" = 1'-0"



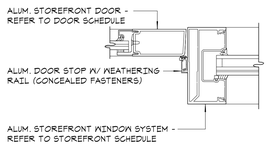
4 AD.05 **H.M. DOOR HEAD/JAMB @ CMU/FURRING**
3" = 1'-0"



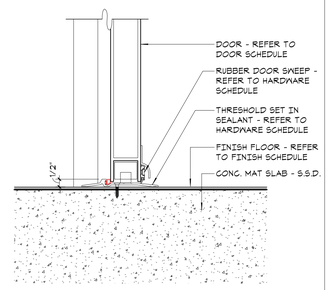
20 AD.05 **O.H COIL DOOR PLAN & SILL**
3" = 1'-0"



15 AD.05 **OVERHEAD COIL DOOR JAMB**
3" = 1'-0"



10 AD.05 **S.F.DOOR JAMB @ STOREFRONT**
3" = 1'-0"



5 AD.05 **INTERIOR THRESHOLD AT WET AREAS**
3" = 1'-0"

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

REGISTERED ARCHITECT
C28385
September 2027
STATE OF CALIFORNIA

Client:
CITY OF LATHROP
390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

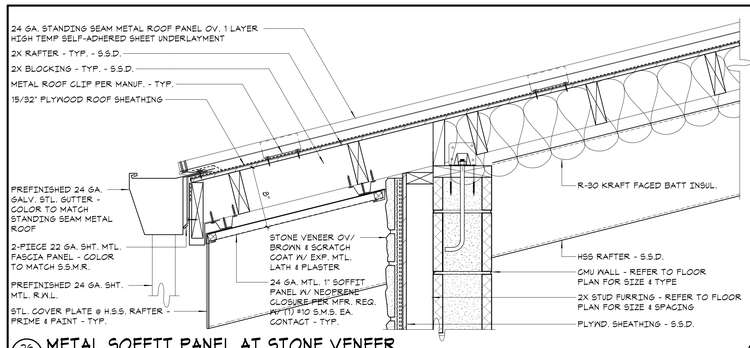
No.	Description	Date	By

BID SET
6/23/2026

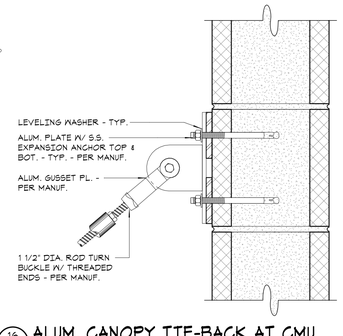
DOOR DETAILS

AD.05

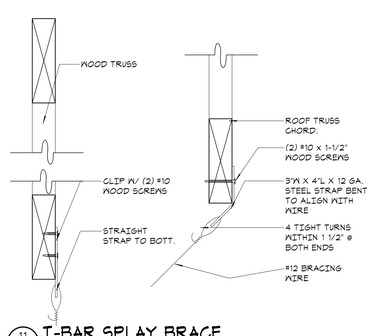
6/23/2026 3:05:25 PM



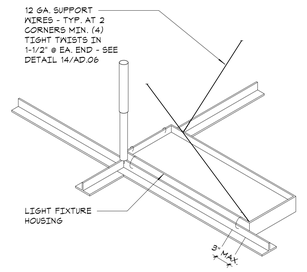
26 AD.06 METAL SOFFIT PANEL AT STONE VENEER
1 1/2" = 1'-0"



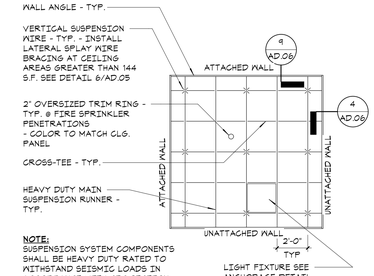
16 AD.06 ALUM. CANOPY TIE-BACK AT CMU
3" = 1'-0"



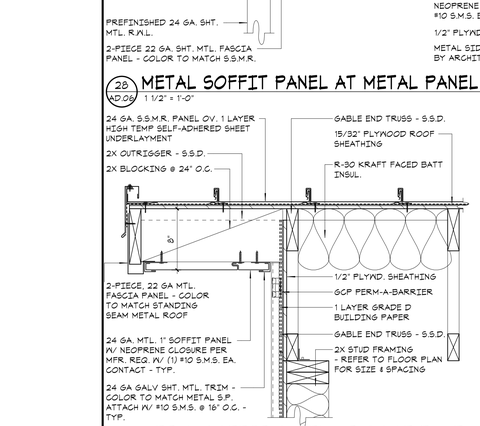
11 AD.06 T-BAR SPLAY BRACE
3" = 1'-0"



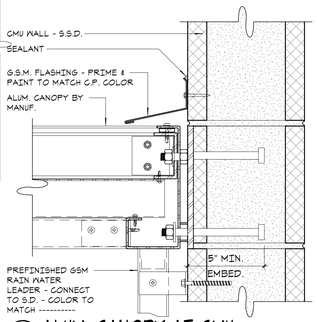
6 AD.06 LIGHT FIXTURE ANCHORAGE
1/2" = 1'-0"



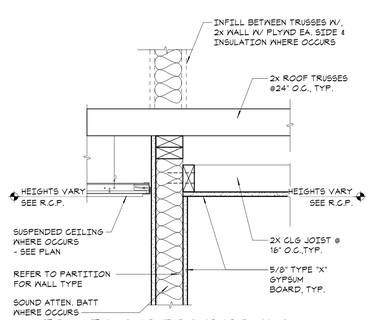
1 AD.06 TYP. SUSP. ACOUST. PNL CEILING
1/4" = 1'-0"



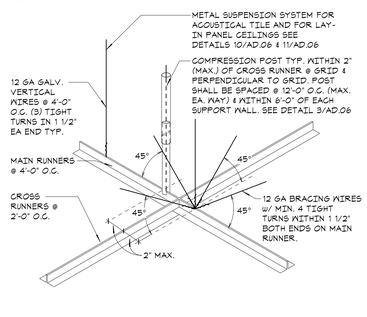
27 AD.06 METAL SOFFIT PANEL AT CMU & HSS ROOF RAFTER
1 1/2" = 1'-0"



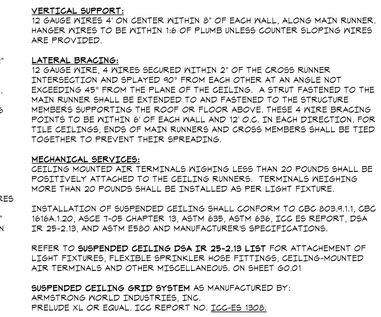
17 AD.06 ALUM. CANOPY AT CMU
3" = 1'-0"



12 AD.06 FRAMED GYP BRD/SUSP CLG
1 1/2" = 1'-0"

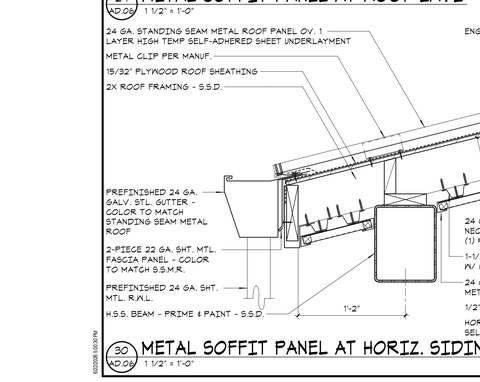


7 AD.06 SUSPENDED CEILING T-BAR GRID
1/2" = 1'-0"

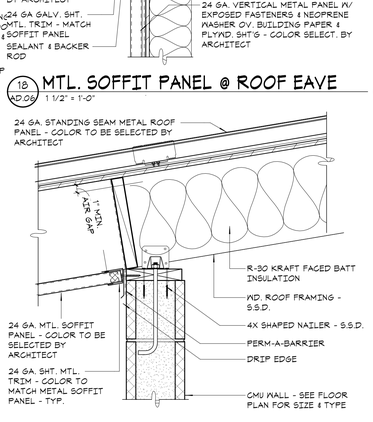


COMPRESSION POST SCHEDULE		
MAXIMUM LENGTH	MEMBER "A"	MEMBER "B"
6'-6"	1" DIA. EMT	1 1/4" DIA. EMT
8'-6"	1 1/4" DIA. EMT	1 1/2" DIA. EMT

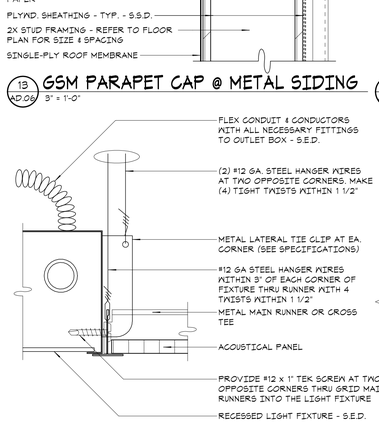
3 AD.06 COMPRESSION POST
1" = 1'-0"



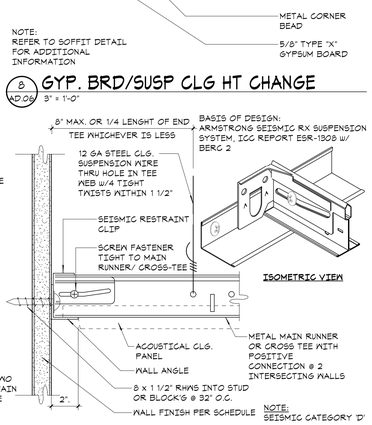
28 AD.06 METAL SOFFIT PANEL AT METAL PANEL SIDING
1 1/2" = 1'-0"



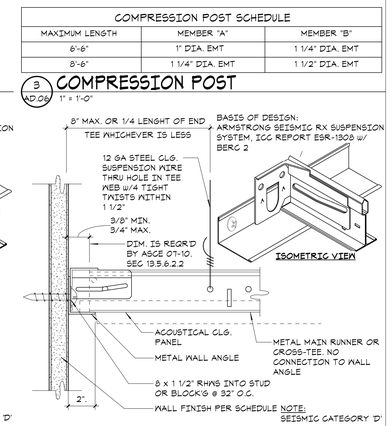
18 AD.06 MTL. SOFFIT PANEL @ ROOF EAVE
1 1/2" = 1'-0"



13 AD.06 GSM PARAPET CAP @ METAL SIDING
3" = 1'-0"

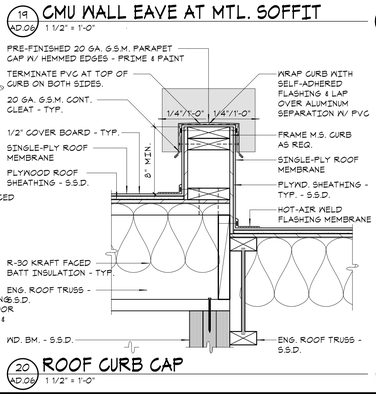


8 AD.06 GYP. BRD/SUSP CLG HT CHANGE
3" = 1'-0"

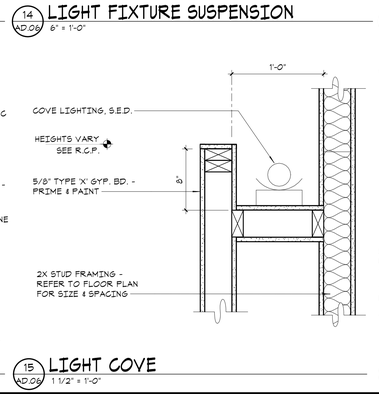


5 AD.06 SOFFIT FRAMING @ CMU
3" = 1'-0"

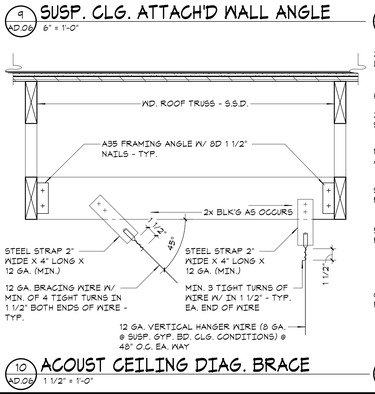
29 AD.06 METAL SOFFIT PANEL AT ROOF EAVE
1 1/2" = 1'-0"



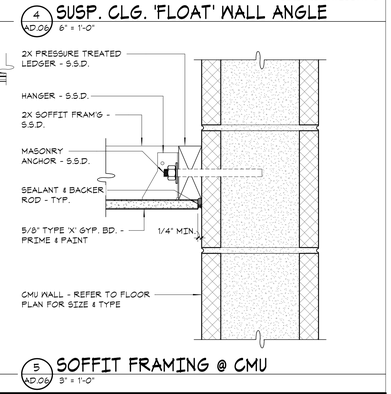
19 AD.06 CMU WALL EAVE AT MTL. SOFFIT
1 1/2" = 1'-0"



14 AD.06 LIGHT FIXTURE SUSPENSION
6" = 1'-0"



9 AD.06 SUSP. CLG. ATTACH'D WALL ANGLE
6" = 1'-0"



4 AD.06 SUSP. CLG. 'FLOAT' WALL ANGLE
6" = 1'-0"

30 AD.06 METAL SOFFIT PANEL AT HORIZ. SIDING
1 1/2" = 1'-0"

20 AD.06 ROOF CURB CAP
1 1/2" = 1'-0"

15 AD.06 LIGHT COVE
1 1/2" = 1'-0"

10 AD.06 ACOUST CEILING DIAG. BRACE
1 1/2" = 1'-0"

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

LICENSED ARCHITECT — CHRISTOPHER WILLIAM LEE — C28388 — September 2027 — STATE OF CALIFORNIA

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

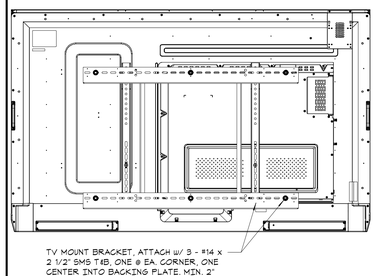
No.	Description	Date	By

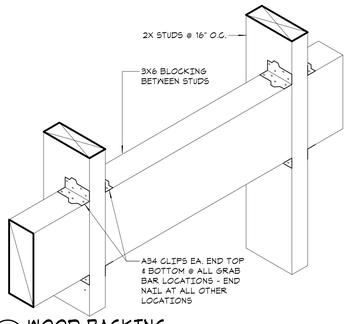
BID SET
6/23/2026

CEILING DETAILS

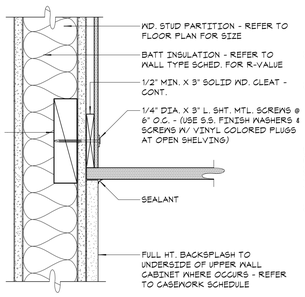
AD.06

8/2/2026 9:59:51 PM

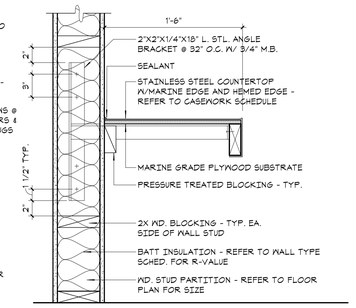




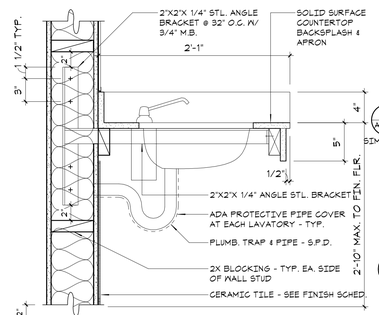
21 AD.07 **WOOD BACKING**
1" = 1'-0"



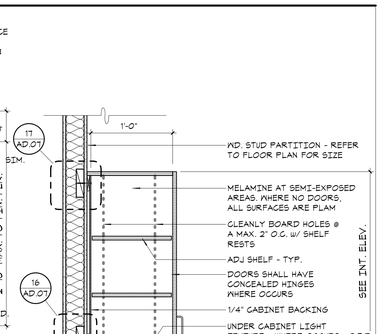
16 AD.07 **UPPER CABINET LOWER ANCHOR**
3" = 1'-0"



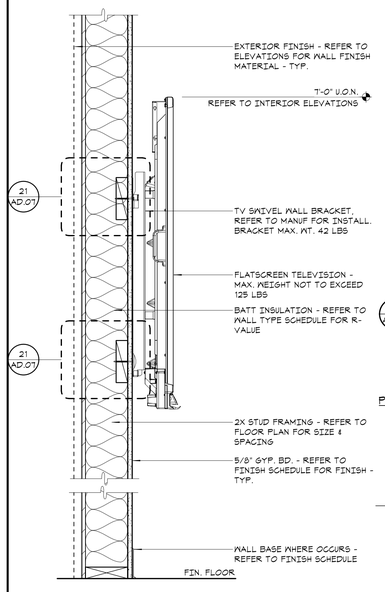
11 AD.07 **STAINLESS STEEL COUNTER**
1 1/2" = 1'-0"



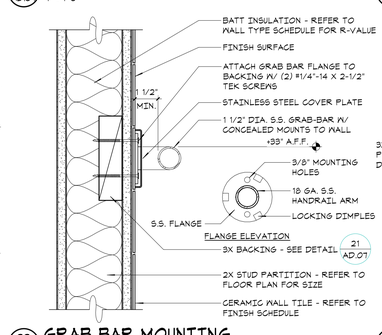
6 AD.07 **LAVATORY COUNTER**
1 1/2" = 1'-0"



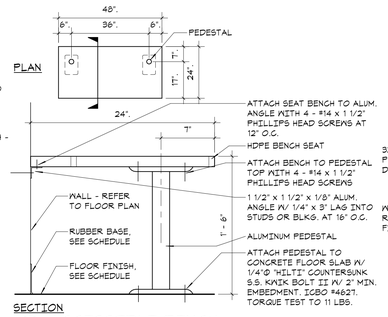
2 AD.07 **BASE & UPPER CABINET SECTION**
1" = 1'-0"



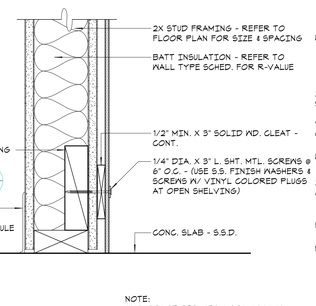
28 AD.07 **FLAT SCREEN SURFACE MOUNTED**
1 1/2" = 1'-0"



22 AD.07 **GRAB BAR MOUNTING**
3" = 1'-0"

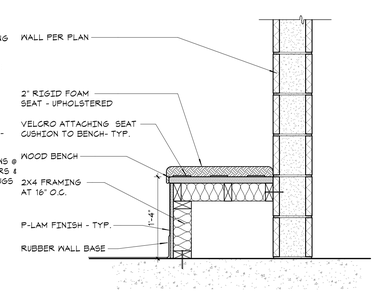


23 AD.07 **ACCESSIBLE BENCH**
1 1/2" = 1'-0"

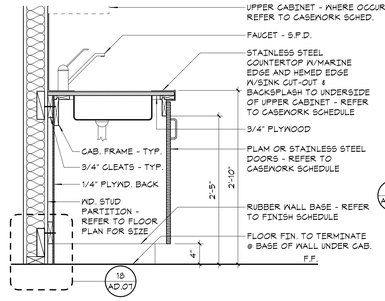


NOTE:
ANCHORAGE PER WIC # OPA-2648-10

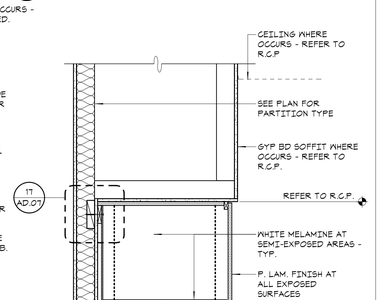
18 AD.07 **ACCESS. BASE CAB ANCHOR AT WALL**
3" = 1'-0"



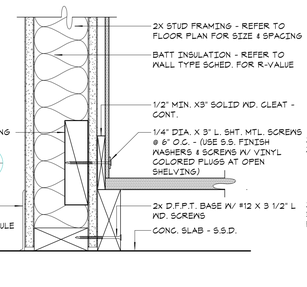
19 AD.07 **BENCH CASEWORK**
1" = 1'-0"



8 AD.07 **ACCESS BASE SINK CAB W/ SS COUNT.**
1" = 1'-0"

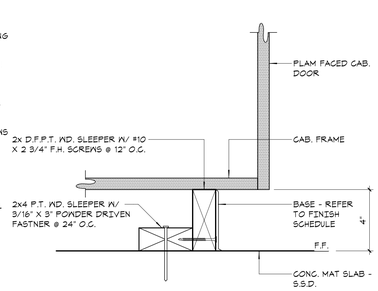


4 AD.07 **FULL HEIGHT CASEWORK SECTION**
1" = 1'-0"

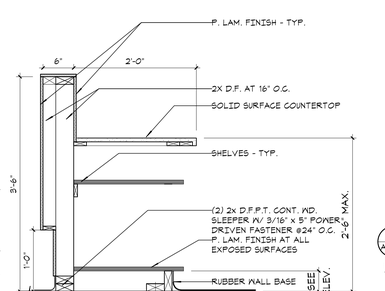


NOTE:
ANCHORAGE PER WIC # OPA-2649-10

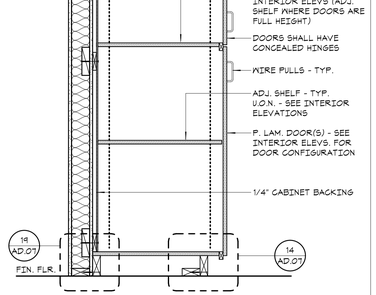
19 AD.07 **BASE CABINET LOWER ANCHOR**
3" = 1'-0"



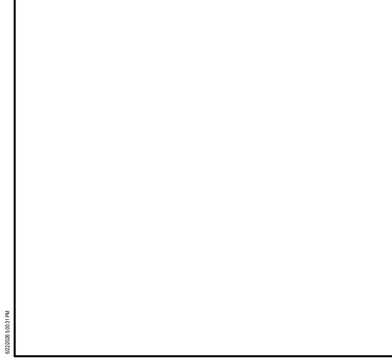
14 AD.07 **BASE CABINET @ TOE KICK**
3" = 1'-0"



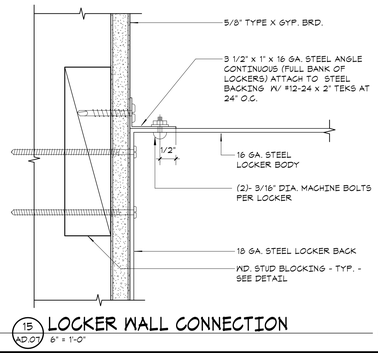
9 AD.07 **MAIN RECEPTION CASEWORK**
1" = 1'-0"



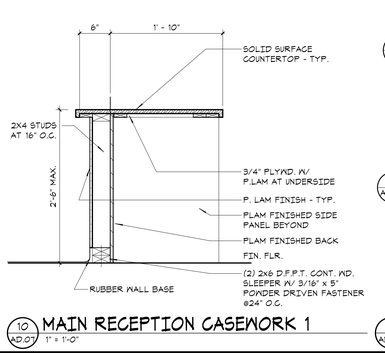
4 AD.07 **FULL HEIGHT CASEWORK SECTION**
1" = 1'-0"



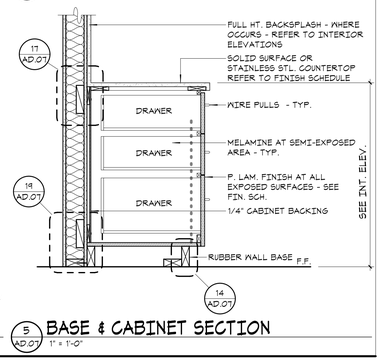
20 AD.07 **WALL MOUNTED BENCH DETAIL**
1 1/2" = 1'-0"



15 AD.07 **LOCKER WALL CONNECTION**
6" = 1'-0"



10 AD.07 **MAIN RECEPTION CASEWORK 1**
1" = 1'-0"



5 AD.07 **BASE & CABINET SECTION**
1" = 1'-0"

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

LICENSED ARCHITECT
C28388
September 2027
STATE OF CALIFORNIA

Client:
CITY OF LATHROP
390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

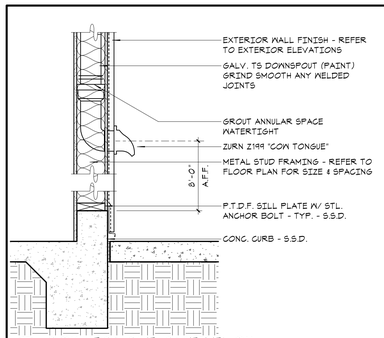
No.	Description	Date	By

BID SET
6/23/2026

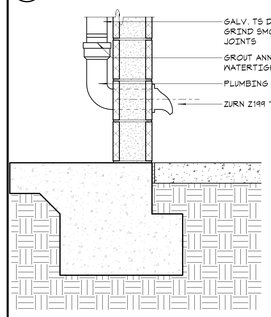
CASEWORK DETAILS

AD.07

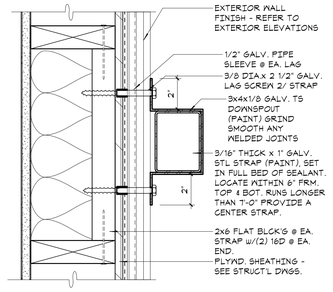
6/23/2026 9:50:11 PM



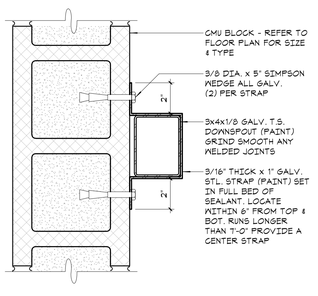
26 AD.08 CON TONGUE OVERFLOW
1" = 1'-0"



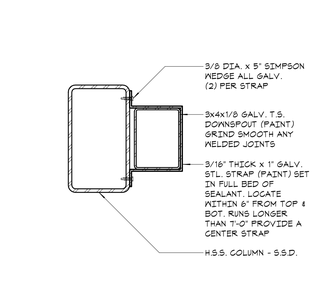
27 AD.08 CON TONGUE OVERFLOW @ CMU
1" = 1'-0"



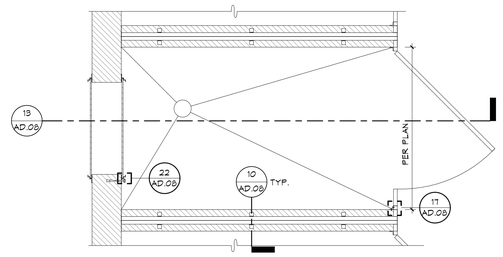
28 AD.08 DOWNSPOUT @ BLDG
3" = 1'-0"



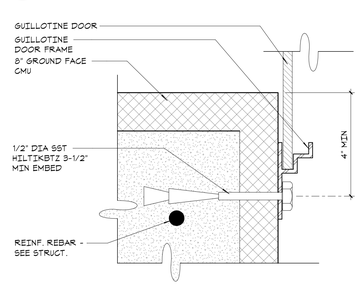
29 AD.08 DOWNSPOUT AT CMU WALL
3" = 1'-0"



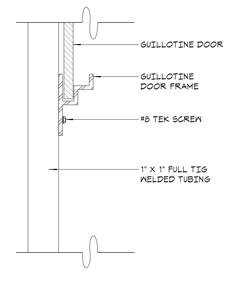
30 AD.08 DOWNSPOUT AT STEEL POST
3" = 1'-0"



21 AD.08 KENNEL ATTACHMENT
3/4" = 1'-0"

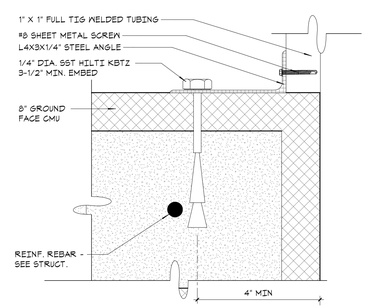


24 AD.08 DOG HOOK AT STUD WALL
3" = 1'-0"

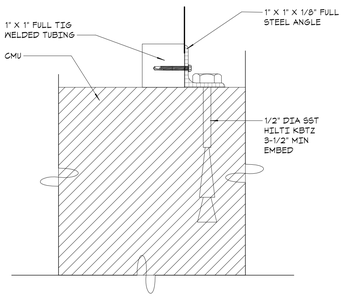


23 AD.08 KENNEL ATTACHMENT 4
6" = 1'-0"

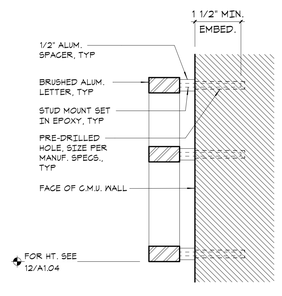
25 AD.08 DOG HOOK AT CMU
3" = 1'-0"



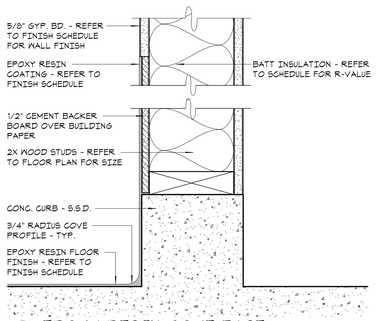
17 AD.08 KENNEL ATTACHMENT 2
6" = 1'-0"



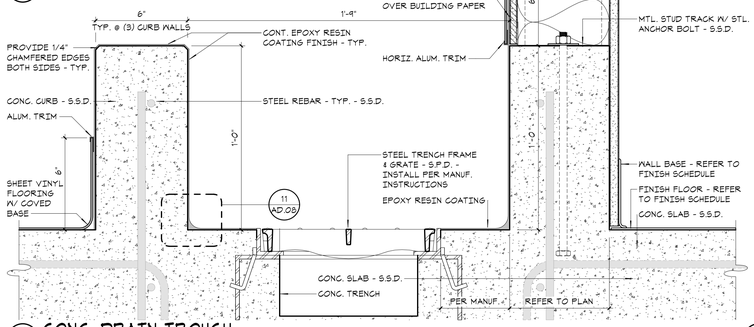
18 AD.08 KENNEL ATTACHMENT 3
6" = 1'-0"



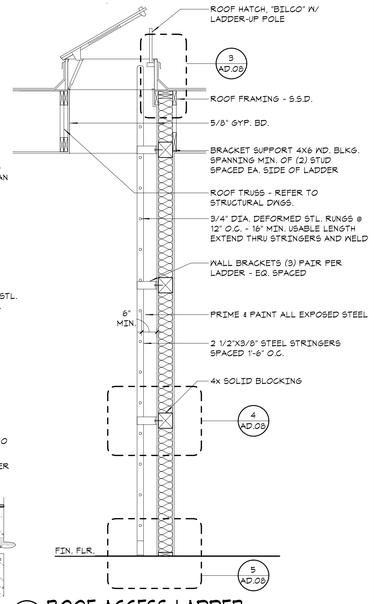
19 AD.08 WALL MOUNTED LETTERS
6" = 1'-0"



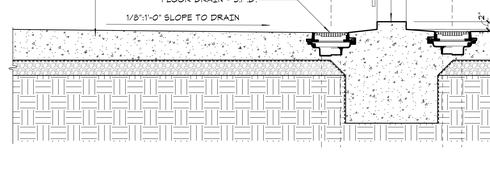
11 AD.08 EPOXY RESIN COVE BASE
3" = 1'-0"



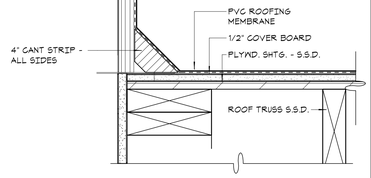
12 AD.08 CONC. DRAIN TROUGH
3" = 1'-0"



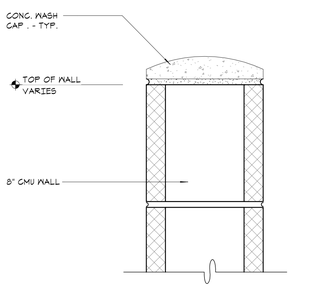
2 AD.08 ROOF ACCESS LADDER
1/2" = 1'-0"



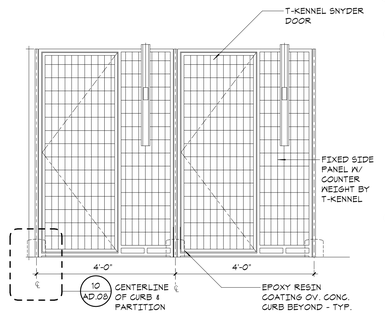
13 AD.08 EXTERIOR & INTERIOR WARD KENNEL DRAIN DETAIL
3/4" = 1'-0"



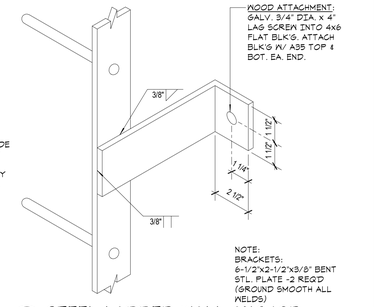
3 AD.08 ROOF HATCH
3" = 1'-0"



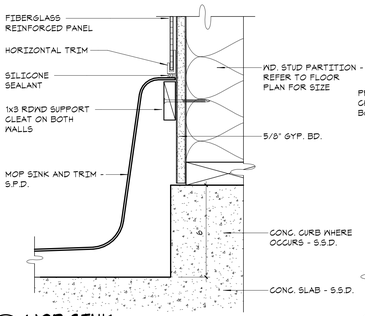
14 AD.08 WASH CAP @ 8" CMU
3" = 1'-0"



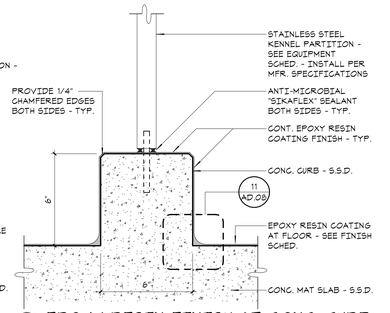
9 AD.08 INTERIOR T-KENNEL ELEVATION
3" = 1'-0"



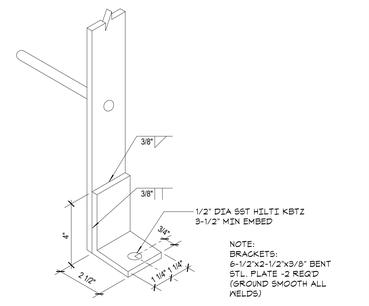
4 AD.08 STEEL LADDER WALL ANCHOR
3" = 1'-0"



15 AD.08 MOP SINK
3" = 1'-0"



10 AD.08 EPOXY RESIN FINISH AT CONC. CURB
3" = 1'-0"



5 AD.08 LADDER FLOOR ANCHOR
3" = 1'-0"

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

REGISTERED ARCHITECT
C28388
September 2027
STATE OF CALIFORNIA

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/2026

MISC. DETAILS

AD.08

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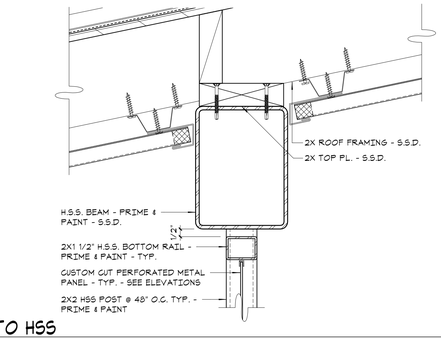
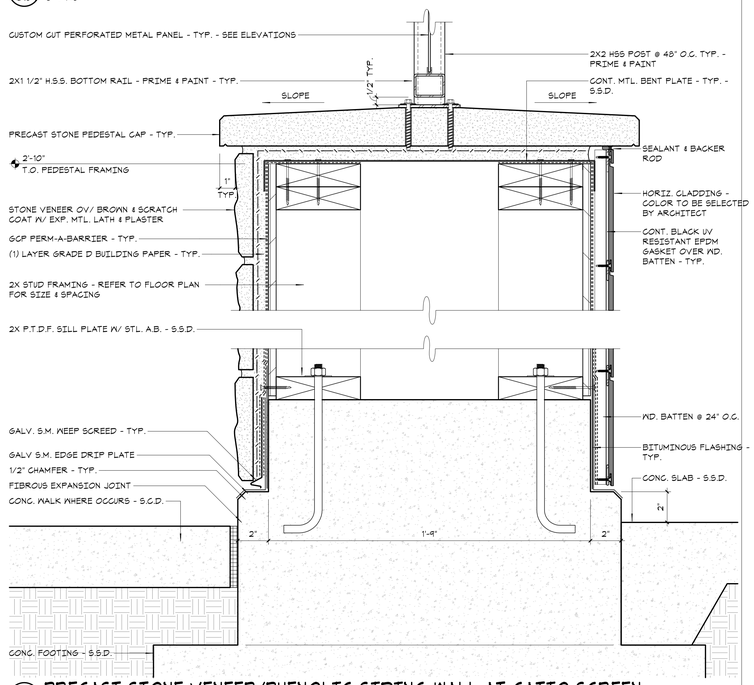


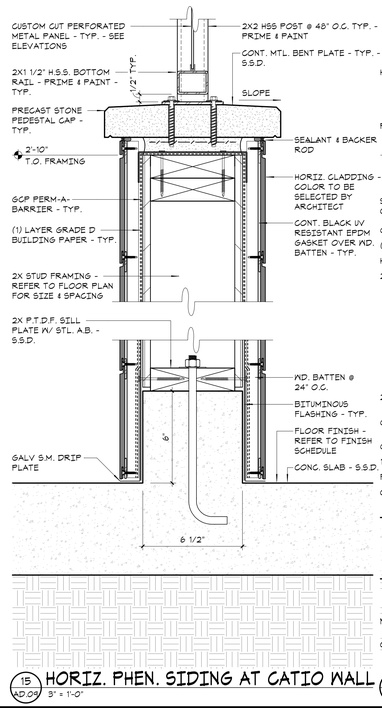
6 AD.09 CATIO SCREEN TO HSS

3" = 1'-0"



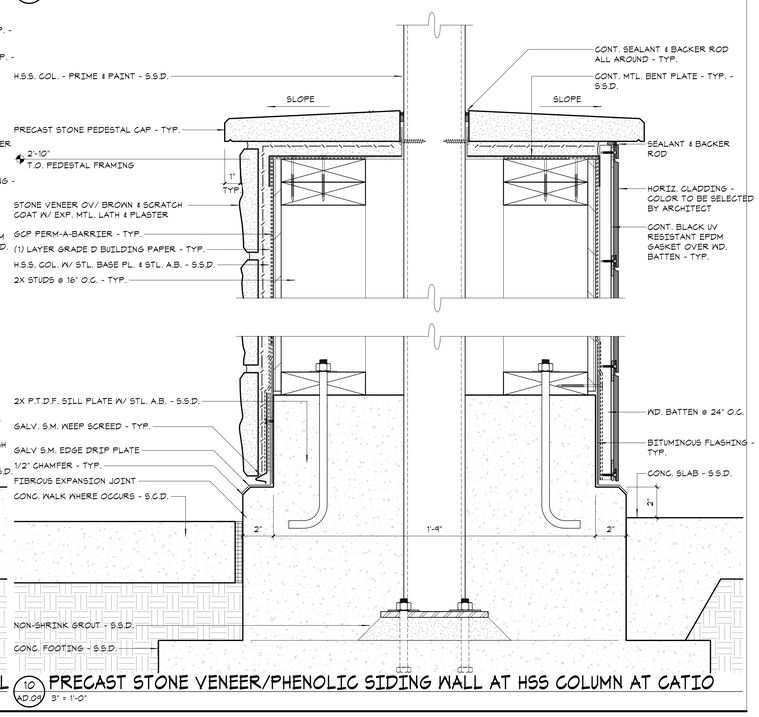
5 AD.09 PRECAST STONE VENEER/PHENOLIC SIDING WALL AT CATIO SCREEN

3" = 1'-0"



15 AD.09 HORIZ. PHEN. SIDING AT CATIO WALL

3" = 1'-0"



10 AD.09 PRECAST STONE VENEER/PHENOLIC SIDING WALL AT HSS COLUMN AT CATIO

3" = 1'-0"

DESIGNERS & ARCHITECTS

Architect:
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Designers & Architects
222 Central Court
Stockton, CA 95204
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BID SET
6/23/2026

MISC. DETAILS

AD.09

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Table 2304.10.2 - Fastening Schedule 2025 C.B.C.

		DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER
		ROOF	
1		Blocking between ceiling joists, rafters or trusses to top plate or other framing below. Each end, toenail	4-8d box (2-1/2" × 0.113"); or 3-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3"14 gage staples, 7/16" crown
		Blocking between rafters or truss not at the wall top plate, to rafter or truss. Each end, toenail	2-8d common (2-1/2" × 0.131") 2-3" × 0.131" nails 2-3" 14 gage staples
		Blocking between rafters or truss not at the wall top plate, to rafter or truss. End nail	2-16 d common (3-1/2" × 0.162") 3-3" × 0.131" nails 3-3" 14 gage staples
		Flat blocking to truss and web filler. Face nail	16d common (3-1/2" × 0.162") @ 6" o.c., 3" × 0.131" nails @ 6" o.c., 3" × 14 gage staples @ 6" o.c
2		Ceiling joists to top plate. Each joist, toenail	4-8d box (2-1/2" x 0.113"); or 3-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown
3		Ceiling joist not attached to parallel rafter, laps over partitions (no thrust) (see Section 2308.7.3.1, Table 2308.7.3.1). Face nail	3-16d common (3-1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown
4		Ceiling joist attached to parallel rafter (heel joint) (see Section 2308.7.3.1, Table 2308.7.3.1). Face nail	Per Table 2308.7.3.1
5		Collar tie to rafter. Face nail	3-10d common (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown
6		Rafter or roof truss to top plate (See Section 2308.7.5, Table 2308.7.5). 2 toenails on one side and 1 toenail on opposite side of rafter or truss (c)	3-10 common (3" × 0.148"); or 3-16d box (3-1/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131 nails; or 4-3" 14 gage staples, 7/16" crown
7		Roof rafters to ridge valley or hip rafters; or roof rafter to 2-inch ridge beam. End nail	2-16d common (3-1/2" × 0.162"); or 3-16d box (3-1/2" × 0.135"); or 3-10d box (3" × 0.128"); or 3-3" × 0,131" nails; or 3-3" 14 gage staples, 7/16" crown
		Roof rafters to ridge valley or hip rafters; or roof rafter to 2-inch ridge beam. Toenail	3-10d common (3-1/2" × 0.148"); or 4-16d box (3-1/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown
		WALL	
8		Stud to stud (not at braced wall panels). 24" o.c. face nail	16d common (3-1/2" × 0.162");
		Stud to stud (not at braced wall panels). 16" o.c. face nail	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown
9		Stud to stud and abutting studs at intersecting wall corners (at braced wall panels). 16" o.c. face nail	16d common (3-1/2" × 0.162")
		Stud to stud and abutting studs at intersecting wall corners (at braced wall panels). 12" o.c. face nail	16d box (3-1/2" × 0.135"); or 3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown
10		Built-up header (2" to 2" header). 16" o.c. each edge, face nail	16d common (3-1/2" × 0.162")
		Built-up header (2" to 2" header). 12" o.c. each edge, face nail	16d box (3-1/2" × 0.135")
11		Continuous header to stud. Toenail	4-8d common (2-1/2" × 0.131"); or 4-10d box (3" × 0.128"); or 5-8d box (21/2" x 0.113")
12		Top plate to top plate. 16" o.c. face nail	16d common (31/2" × 0.162")
		Top plate to top plate.12" o.c. face nail	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown
13		Top plate to top plate, at end joints. Each side of end joint, face nail (minimum 24" lap splice length each side of end joint)	8-16d common (3-1/2" × 0.162"); or 12-16d box (3-1/2" x 0.135"); or 12-10d box (3" × 0.128"); or 12-3" × 0.131" nails; or 12-3" 14 gage staples, 7/16" crown
14		Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels). 16" o.c. face nail	16d common (3-1/2" × 0.162")
		Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels). 12" o.c. face nail	16d box (3-1/2" × 0.135"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown
15		Bottom plate to joist, rim joist, band joist or blocking at braced wall panels. 16" o.c. face nail	2-16d common (3-1/2" × 0.162"); or 3-16d box (31/2" × 0.135"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown
16		Stud to top or bottom plate. Toenail	3-16d box (3-1/2" x 0.135"); or 4-8d common (2-1/2" × 0.131"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-8d box (2-1/2" x 0.113"); or 4-3" 14 gage staples, 7/16" crown
		Stud to top or bottom plate. End nail	2-16d common (3-1/2" × 0.162"); or 3-16d box (3-1/2" x 0.135"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown
17		Top plates, laps at corners and intersections. Face nail	2-16d common (3-1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown
18		1" brace to each stud and plate. Face nail	3-8d box (2-1/2" x 0.113"); or 2-8d common (2-1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples,...
19		1" × 6" sheathing to each bearing. Face nail	3-8d box (2-1/2" x 0.113"); or 2-8d common (2-1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-1-3/4" 16 gage staples, 1" crown
20		1" × 8" and wider sheathing to each bearing. Face nail	3-8d common (2-1/2" × 0.131"); or 3-8d box (2-1/2" x 0.113"); or 3-10d box (3" × 0.128"); or 3-1-3/4" 16 gage staples, 1" crown
			Wider than 1" × 8" 3-8d common (2-1/2" x 0.131"); or 4-8d box (2-1/2" × 0.113"); or 3-10d box (3" × 0.128"); or 4-1-3/4" 16 gage staples, 1" crown
		FLOOR	
21		Joist to sill, top plate, or girder. Toenail	4-8d box (2-1/2" × 0.113"); or 3-8d common (2-1/2" × 0.131"); or floor 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown
22		Rim joist, band joist, or blocking to top plate, sill or other framing below. 4" o.c., toenail	8d box (21/2" × 0.113")
		Rim joist, band joist, or blocking to top plate, sill or other framing below. 6" o.c., toenail	8d common (2-1/2" × 0.131"); or 10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown
23		1" × 6" subfloor or less to each joist. Face nail	3-8d box (2-1/2" x 0.113"); or 2-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 2-1-3/4" 16 gage staples, 1" crown
24		2 subfloor to joist or girder. Blind and face nail	3-16d box (3-1/2" × 0.135"); or 2-16d common (3-1/2" × 0.162")
25		2" planks (plank & beam — floor & roof). Each bearing, face nail	3-16d box (3-1/2" x 0.135"); or 2-16d common (3-1/2" × 0.162")
26		Built-up girders and beams, 2" lumber layers. 32" o.c., face nail at top and bottom staggered on opposite sides	20d common (4" × 0.192")
		Built-up girders and beams, 2" lumber layers. 24" o.c. face nail at top and bottom staggered on opposite sides	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown
		Built-up girders and beams, 2" lumber layers. Ends and at each splice, face nail	And: 2-20d common (4" × 0.192"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown
27		Ledger strip supporting joists or rafters. Each joist or rafter, face nail	3-16d common (3-1/2" × 0.162"); or 4-16d box (3-1/2" × 0.135"); or 4-10d box (3" × 0.128"; or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown
28		Joist to band joist or rim joist. End nail	3-16d common (3-1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown
29		Bridging or blocking to joist, rafter or truss. Each end, toenail	2-8d common (2-1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples, 7/16" crown
		WOOD STRUCTURAL PANELS (WSP), SUBFLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING	
30		3/8" — 1/2" [Edge/Intermediate Supports (inches) 6/12]	6d common or deformed (2" × 0.113"); or 2-3/8" × 0.113" nail (subfloor and wall)
		3/8" — 1/2" [Edge/Intermediate Supports (inches) 6 (e)/6 (e)]	8d common or deformed (2-1/2" × 0.131"× 0.281" head) (roof) or RSRS-01 (2-3/8" × 0.113") nail (roof) (d)
		3/8" — 1/2" [Edge/Intermediate Supports (inches) 4/8]	1-3/4" 16 gage staple, 7/16" crown (subfloor and wall)
		3/8" — 1/2" [Edge/Intermediate Supports (inches) 3 (f)/3 (f)]	2-3/8" × 0.113"× 0.266" head nail (roof)
			1-3/4" 16 gage staple, 7/16" crown (roof)
31		19/32" — 3/4" [Edge/Intermediate Supports (inches) 6/12]	8d common (2-1/2" × 0.131"); or deformed (2" × 0.113") (subfloor and wall)
		19/32" — 3/4" [Edge/Intermediate Supports (inches) 6 (e)/6 (e)]	8d common or deformed (2-1/2" × 0.131" × 0.281" head) (roof) or RSRS-01 (2-3/8" × 0.113") nail (roof) (d)
		19/32" — 3/4" [Edge/Intermediate Supports (inches) 4/8]	2-3/8" × 0.113"× 0.266" head nail; or 2" 16 gage staple, 7/16" crown
32		7/8" — 1-1/4" [Edge/Intermediate Supports (inches) 6/12]	10d common (3" × 0.148"); or deformed (2-1/2" × 0.131" × 0.281" head)
		OTHER EXTERIOR WALL SHEATHING	
33		1/2" fiberboard sheathing (b) [Edge/Intermediate Supports (inches) 3/6]	1-1/2" × 0.120", galvanized roofing nail (7/16" head diameter); or 1-1/4" 16 gage staple with 7/16" or 1" crown
34		25/32" fiberboard sheathing (b) [Edge/Intermediate Supports (inches) 3/6]	1-3/4" × 0.120" galvanized roofing nail (7/16" diameter head); or 1-1/2" 16 gage staple with 7/16" or 1" crown
		WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING	
35		3/4" and less [Edge/Intermediate Supports (inches) 6/12]	8d common (2-1/2" × 0.131"); or deformed (2" × 0.113"); or deformed (2" × 0.120")
36		7/8" — 1" [Edge/Intermediate Supports (inches) 6/12]	8d common (2-1/2" × 0.131"); or deformed (2-1/2" × 0.131"); or deformed (2-1/2" × 0.120")
37		1-1/8" — 1-1/4" [Edge/Intermediate Supports (inches) 6/12]	10d common (3" × 0.148"); or deformed (2-1/2" × 0.131"); or deformed (2-1/2" × 0.120")
		PANEL SIDING TO FRAMING	
38		1/2" or less [Edge/Intermediate Supports (inches) 6/12]	6d corrosion-resistant siding (1-7/8" × 0.106"); or 6d corrosion-resistant casing (2" × 0.099")
39		5/8" [Edge/Intermediate Supports (inches) 6/12]	8d corrosion-resistant siding (2-3/8" × 0.128"); or 8d corrosion-resistant casing (2-1/2" × 0.113")
		INTERIOR PANELING	
40		1/4" [Edge/Intermediate Supports (inches) 6/12]	4d casing (1-1/2" × 0.080"); or 4d finish (1-1/2" × 0.072")
41		3/8" [Edge/Intermediate Supports (inches) 6/12]	6d casing (2" × 0.099"); or 6d finish (2" × 0.092") (Panel supports at 24 inches)

*NOTE: All fasteners attached to pressure treated material shall be hot-dip galvanized (per ASTM A153), stainless steel, silicon bronze, or copper material. Includes: anchor bolts, hold-down anchors, plywood edge nails, etc. [CBC 2022§ 2304.10.2.1]

a	Nails spaced at 6 inches at intermediate supports where spans are 48 inches or more. For nailing of wood structural panel and particleboard diaphragms and shear walls, refer to Section 2305. Nails for wall sheathing are permitted to be common, box or casing.
b	Spacing shall be 6 inches on center on the edges and 12 inches on center at intermediate supports for nonstructural applications. Panel supports at 16 inches [20 inches if strength axis in the long direction of the panel, unless otherwise marked].
c	Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule and the ceiling joist is fastened to the top plate in accordance with this schedule, the number of toenails in the rafter shall be permitted to be reduced by one nail.
d	RSRS-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667.
e	Tabulated fastener requirements apply where the ultimate design wind speed is less than 140 mph. For wood structural panel roof sheathing attached to gable-end roof framing and to intermediate supports within 48 inches of roof edges and ridges, nails shall be spaced at 4 inches on center where the ultimate design wind speed is greater than 130 mph in Exposure B or greater than 110 mph in Exposure C. Spacing exceeding 6 inches on center at intermediate supports shall be permitted where the fastening is designed per the AWC NDS.
f	Fastening is only permitted where the ultimate design wind speed is less than or equal to 110 mph.
g	Nails and staples are carbon steel meeting the specifications of ASTM F1667. Connections using nails and staples of other materials, such as stainless steel, shall be designed by acceptable engineering practice or approved under Section 104.11.

Wood

1. Sawn framing lumber shall comply w/ the latest edition of the grading rules of Western Wood Products Association or the West Coast Lumber Inspection Bureau. All sawn lumber shall be stamped with the grade mark of an approved lumber grading agency. Sawn lumber shall have the following minimum grade (UNO):

Size	Species & Grade
2x4 studs, blocking & top plates	Doug Fir-Larch, No. 2
2x6 studs, blocking & top plates	Doug Fir-Larch, No. 2
Joists and all other sawn lumber	Doug Fir-Larch, No. 1
4x posts	Doug Fir-Larch, No. 2
6x posts	Doug Fir-Larch, No. 2

2. Glued-Laminated beams (GLB) shall be Douglass Fir-Larch Combination 24F-V4 at simple span beams and 24F-V8 at cantilever and multi-span beams, UNO, and shall have the minimum properties:

   Fb = 2,400 psi Fv = 265 psi Fc(Perpendicular) = 650 psi E = 1,800 ksi

   Fabrication and handling shall comply with the latest AITC and ASTM standards. Beams shall be manufactured with 2000' radius min. camber unless specifically noted on the plans. All laminations shall be 1-1/2" thick (min.).

3. Structural-use panels shall be performance rated by the American Plywood Association (APA). Panels shall comply with I.C.C. report No. NER-108, Exposure 1. Install per manufacturer recommendations. Structural-use panels shall conform to IBC standard 23-2 and 23-3. Plywood shall be five-ply sheathing lay up plywood with face grain perpendicular to supports. Plywood may be oriented per shearwall schedule. Oriented strand board (OSB) may be used as an alternate to plywood. Provide blocking at panel edges where indicated on plans. Panels shall conform to the following nominal thickness, span rating and nailing pattern unless noted otherwise:

Thickness	Grade/ Materials	Use	Span Rating	Edge Nailing	Field Nailing
5/16"	rated sheathing	walls	16/0	6d @ 6" O.C.	6d @ 12" O.C.
3/8"	rated sheathing	walls	24/0	8d @ 6" O.C.	8d @ 12" O.C.
7/16"	rated sheathing	walls/roof	24/16	8d @ 6" O.C.	8d @ 12" O.C.
15/32"	rated sheathing	walls/roof	32/16	8d @ 6" O.C.	8d @ 12" O.C.
1/2"	rated sheathing	walls/roof	32/16	8d @ 6" O.C.	8d @ 12" O.C.
19/32"	rated sheathing	roof	40/20	10d @ 6" O.C.	10d @ 12" O.C.
5/8"	rated sheathing	roof	40/20	10d @ 6" O.C.	10d @ 12" O.C.
3/4" R	rated sheathing	roof	48/24	10d @ 6" O.C.	10d @ 12" O.C.
3/4" F	Structural I	floor	48/24	10d @ 6" O.C.	10d @ 12" O.C.

4. Bottom plates resting on concrete or masonry shall be pressure treated douglas fir-Larch sole plates and shall be anchored per structural details and shear wall schedule.
5. All bolts shall be installed in holes bored with a bit 1/16" larger than the diameter of the bolt. Bolts and nuts seating on wood shall have washers as specified by the plans under the nut. Ding threads or install additional nut to prevent loosening of nuts. Lag bolts shall be installed in pre-drilled holes with wrench.
6. All exterior wood for the vision screen shall be pressure treated. All sheathing shall be exterior grade.
7. Any location calling out a 10d nail or 16d nail may be substituted for a #9 or #10 SD screw , respectively, of the same length unless otherwise noted. (Per Simpson Strong-Tie)
8. All light framing connections shall be per CBC Tables 2304.1-2304.10.4 unless otherwise stated on the plans.
9. Microllam laminated veneer lumber (LVL) is manufactured from wood veneers laminated together using an exterior-type structural adhesive. All veneers are oriented with the wood grain parallel to the length of the member. The wood species, properties, adhesives, manufacturing parameters and finished product tolerances are as specified in ESR-1387 and manufacturing standard. UNO, and shall have the minimum properties:

   Fb = 2,600 psi Fv = 285 psi Fc(Perpendicular) = 750 psi E = 2,000 ksi

10. Supporting framing members for moisture-permeable floors and roofs that are exposed to the weather shall be of naturally durable or preservative-treated wood unless separated from such floors and roofs by an impervious moisture barrier, per CBC 2304.12. The impervious moisture barrier system protecting the structure supporting floors shall provide drainage of water that infiltrates the moisture-permeable floor topping.
11. Naturally durable or preservative-treated wood shall be used for those portions of wood members that form the structural supports of buildings, balconies, porches or similar permanent building appurtenances where such members are exposed to the weather without adequate protection from a roof, eave, overhang or other covering to prevent moisture or water accumulation on the surface or at joints between member per CBC 2304.12.2.3.

Foundation:

1. Excavations and soil work, including all required inspections during construction, shall comply with the requirements of the Geotechnical Investigation Report by Krazan & Associates, Inc, project No. 072-25094, dated February 18, 2026.
2. Geotechnical parameters used for foundation design:
   - Dead Load Only.....1,875 psf
   - Dead Plus Live Load.....2,500 psf
   - Total Load Including Wind or Seismic.....3,325 psf
   - Coefficient of Friction.....0.35
   - Passive Soil Resistance.....300 pcf
3. All footings shall extend below grade the minimum embedment depth as noted on plans. Grade shall be defined as the lowest of the following:
   - building pad subgrade
   - lowest surrounding soil grade within 5'-0" of the building
4. Conventional concrete slabs on grade shall be supported per the Geotechnical Report if provided. Fill material or subgrade material shall be moistened, but not saturated, prior to concrete placement. Care shall be taken as to not damage the integrity of the fill or subgrade material/preparation.
5. Backfilling against foundation walls or exterior walls shall not commence until after the top of the walls are restrained by the completed floor or roof systems.
6. Adequate drainage away from structural wall or foundation shall be provided by Contractor as required.
7. Backfill and re-compaction of all trenches prior to any construction above or adjacent to trench is to be done per soils report (min. 90% compaction).
8. Foundation excavations should be properly prepared in accordance with the recommendations of the geotechnical engineer. All footing and pier excavations should be observed by a representative of of the geotechnical engineer prior to placement of reinforcing steel, in order to examine competency of soils.

Basis For Design

Governing Building Code: 2025 CBC								
Risk Category: II								
Loading Information								
Gravity								
Roof		**Ceiling**		**Floors**		**Storage and Egress**		
D	Lr	D	Lr	D	L	Storage	Egress	
15 psf	20 psf	10 psf	10 psf	N/A	N/A	-	-	
Live loads reduced as permitted by building code								
Seismic								
Seismic Force Resisting System			**Analysis Procedure**			**R**	**I**	
Special Reinforced Masonry Walls			ASCE 7-22 Chapter 12			5	1.0	
Ss	SDS	S1	SD1	Site Class	Seismic Design Category	Cs	ap	
0.980	0.873	0.310	0.540	D - Default	D	0.175	N/A	
Risk Category : II								
Seismic Design For Building Structures (ASCE 7-22 CH.12)								
Wind								
Analysis Procedure: ASCE 7-22								
Main Wind Force Resisting System				**Component & Cladding (PSF)**				
V	exposure	qz	GCpi	N/A	N/A	N/A	N/A	
93 mph	C	16.94 psf	0.18	N/A	N/A	N/A	N/A	
Deflection Limits:								
Wood Roof Elements: Trusses and Joists								
Total load: L/240								
Live Load: L/360								

Concrete:

1. Min. 28 day compressive strength:
   - building foundation.....3000 psi
   - retaining walls.....4000 psi

   Max. Water to Cement Ratio 0.50

   Concrete Slump .....4"-6"
2. Concrete mix designs shall be done by a certified laboratory and approved by the Engineer.
3. All concrete shall be regular weight of 145-150 pounds per cubic foot using aggregates conforming to ASTM C33. Water shall be clean and potable.
4. Portland Cement shall be Type II and conform to ASTM C150.
5. No more than 90 minutes shall elapse between concrete batching and placement, unless approved by Engineer or Authorized Testing Agency.
6. Concrete mixing, transport, & placement shall be per ACI 304. Mechanically vibrate all concrete as necessary when placed to achieve a uniform placement minimizing voids. Remove all debris from forms before placing concrete. Concrete shall not be allowed to be dropped through reinforcing steel or greater than 5 feet or any situation that may adversely affect the air entrainment or structural properties of the concrete. Care must be taken when placing slabs on grade as to not disturb the subgrade material.
7. All items to be cast in concrete such as reinforcing steel, ducts, anchor bolts, dowels, pipes, sleeves, conduits, etc., shall be securely fastened to prevent movement during the concrete placement.
8. Concrete slab on grade control joints shall be placed such that the enclosed area is less than 150 square feet(~12' x 12'), unless otherwise stated on plans or an approved mix design allowing greater enclosed area is approved.
9. Pipes shall not be embedded in structural concrete unless stated on the plans or approved by the Engineer. Maximum pipe size shall be 1/3 of the slab thickness, located at mid-depth. Minimum spacing shall 3 times the pipe diameter. Pipes/sleeves shall not impair the strength of the member.
10. Protect concrete from hot or cold weather conditions, which can reduce strength or damage concrete, in accordance with ACI 305 and 306.
11. Anchor bolts for general use and at hold down locations shall be ASTM F1554 Gr. 36 bolts, with A563 Grade A heavy hex nuts & F436 Type I washers.

Reinforcing Steel:

1. Reinforcing steel shall conform to the requirements of ASTM 615. Reinforcing steel shall be Grade 60 (Fy = 60 ksi) deformed bars for all bars #4 and larger including bars used for concrete walls, beams or columns. Reinforcing may be grade 40 (Fy = 40 ksi) deformed bars for all bars #3 and smaller unless otherwise noted on plans. Reinforcing shall be bent cold. Bars are allowed only one bend per detail, no straightening and re-bending is allowed.
2. Lap splices of reinforcing steel in concrete shall be according to ACI 318 Chapter 25 or lap schedule where present, unless otherwise noted. Stagger splices a minimum of one lap length. No tack welding of reinforcing bars is allowed. The latest ACI code and detailing manual apply. Provide bent corner bars to match and lap with horizontal bars at all corners and intersections per typical details. Vertical bars shall be spliced at or near floor lines. Splice top bars at center line of span and bottom bars at the support in spandrels, beams, grade beams, etc., unless otherwise noted.
3. Mechanical splice couplers shall have current ICBO approval and shall be capable of developing 125% of the bar strength.
4. Welding of reinforcing bars, metal inserts, and connections shall conform to AWS D.4, and shall be made only at locations shown on the plans or details. All reinforcing to be welded shall be ASTM A706, Grade 60 weldable steel.
5. Reinforcing bar spacing shown on plans are maximum on centers. All bars shall be detailed and placed per CRSI specifications handbook. Securely tie all bars in location prior to concrete placement.

Special Inspections:

Special Inspection shall be performed by qualified firm independent of the Contractor, Architect, Engineer of Record or Owner according to 2025 CBC Chapter 17. The Special Inspector shall observe the below list of items for conformance with the Contract Documents. The Special Inspector shall send reports to the Owner and all applicable parties. All discrepancies shall be brought to attention of the Contractor for correction. The Special Inspector shall submit a final report stating that the special inspection work, to the best of his knowledge, was performed in compliance with the plans, specifications, Codes and applicable workmanship of the CBC. Special Inspection shall be provided for the below list of items:

Geotechnical Engineer shall be retained to provide observation and testing services during the grading and foundation phase of construction per Geotechnical report recommendations and inspection and testing reports shall be submitted to the Building Department.

	Required Inspections	Periodic	Continuous
1.	High strength bolting	✓	
2.	Geotechnical:		
	· Acceptance tests		✓
	· Moisture Density Determination		✓
	· Field Density		✓
	· Excavations		✓
3.	Masonry Construction - Special Inspections and Testing in accordance with the quality assurance program requirements of TMS 402-16 & TMS602-16 for quality assurance Level 2, as specified in TMS602-16 Tables 3 and 4	✓	
4.	Post installed anchor bolts	✓	
5.	Field welding of structural steel	✓	

Code Compliance:

All work shall be performed in accordance with the following codes, including but not limited to:

2025 California Building Code
2025 California Residential Code
2025 California Electrical Code
2025 California Mechanical Code
2025 California Plumbing Code
2025 Building Energy Efficiency Standards
2025 California Existing Building Code
2025 California Fire Code
2025 California Green Building Code

Any Codes Referenced by the CBC, e.g. ASCE 7, ACI 318, 2024 IBC, AISC-360, etc.

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Client:
CITY OF LATHROP

390 Towne Center Dr.
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209.941.7200

Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: AR
Checked By: HJT

No.	Description	Date	By

Bid Set
6/23/26

Structural Notes

S001

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Structural Steel:

1. Structural steel members shall conform to the following minimum standards and material properties

Shape	Standard/Grade	Fy
W WT	ASTM A992 Grade 50	50 ksi
Channels & Angles	ASTM A36	36 ksi
Bars and Plates	ASTM A36	36 ksi
HSS (round)	ASTM A500 (Grade B)	42 ksi
HSS (rectangular)	ASTM A500 (Grade B)	46 ksi
Cold Formed Shapes	ASTM A570	33 ksi
Bolts	ASTM A325	--
Nuts	ASTM A563	--
Hardened Steel Washers	ASTM F436	--
Load Indicator Washers	ASTM F959	--
Anchor Bolts	ASTM F1554	36 ksi
Shear Studs	ASTM A108 (type B)	--
Threaded Rod	ASTM A36	36 ksi
	ASTM F959	
	ASTM F1554	
	ASTM A108 (type B)	

2. All bolts shall be installed as bearing type connections with the threads included in shear planes (type "N" connection unless otherwise noted). All high strength bolts shall be fully pretensioned using load indicator washers or appropriate torque wrench. Foundation anchor bolts do not need to be pretensioned.
3. All galvanized bolts and nuts shall be of the same process as specified in the plans. Mixing of hot dipped galvanized bolts with mechanically galvanized nuts is prohibited.
4. All structural and miscellaneous steel shall be fabricated and erected in accordance with the latest edition of AISC specifications for design, fabrication and erection.
5. Welding shall be performed by welders holding valid certificates and having current experience in the type of welding shown on the plans. All welding shall use E70XX low hydrogen electrodes or 70ksi weldable wire unless otherwise noted on the plans. Shop welding may use 70ksi weldable wire. All welds involving reinforcing bars shall use E7018 electrodes. All welding shall conform to the latest edition of American Welding Society Standards. No tack welding of ASTM A325 or ASTM A490 bolts.
6. Grout beneath column bases or bearing plates shall be 5,000 psi (min) non-shrink flowable grout or drypack. Install grout under bearing plates before framing members are installed have been plumbed but prior to floor or roof installation. Grout depth shall be sufficient to allow grout or drypack to be placed beneath plate without voids (1-1/2" typical).

Concrete Masonry Units

1. Masonry material specifications are as follows:
   a. Concrete Masonry Units
      ASTM C90, Grade N-1, f'm = 2,000 psi
   b. Mortar - ASTM C270 Type M or S
      compressive strength = 1,800 psi (min. at 28 days)
   c. Grout - ASTM C476
      compressive strength = 2,000 psi (min. at 28 days)
2. Units shall be standard precision finish CMU as specified on the design drawings. Concrete bond beams shall be used at horizontal reinforcement. Block shall be cured no less than 30 days before being placed in the wall.
3. Slump shall be 8" - 11", and no water reducers allowed. Total weight of cementitious materials in the mix shall not exceed 610 pounds, and Portland Cement may be replaced with up to 40% fly ash, or a combination of 70% fly ash and ground granulated blast-furnace slag.
4. All cells and spaces shall be fully grouted.
5. Cleanouts shall be provided for all grout pours over 5' high.
6. All block shall be laid up in mortar with full head and bed joints. Webs of each course shall center on webs of courses below. Block shall be laid in running bond with tooled concave joints.
7. Grout shall be fluid and flowable and shall flow into all joints of masonry without segragation. Do not use coarse grout where dimensions of cell is less than 4". Mechanical vibration shall be used to consolidate the grout under strict control to prevent segregation of grout components.
8. Provide a minimum of 1/2" of grout space between reinforcing bars and surface of masonry units.
9. Vertical control joints (isolation or expansion joints) shall be placed every 40'-0" o.c. (max.). Joint sealant shall be as specified on design drawings.
10. Heights of grout lifts and grout pours shall be as specified on design drawings.
11. Pipes and conduits embedded in masonry shall not be placed without approval by the engineer.
12. Admixtures may not be used unless approved by the purchaser, or acceptable (per TMS 602), or approved by the enforcement agency.

Rebar Lap Schedule - CMU, f'm = 2,000 psi	
Size	8" block, rebar centered
#3	1' - 0"
#4	1' - 0"
#5	1' - 6"
#6	2' - 10"

Rebar Lap Schedule - 3,000 psi Concrete		
Size	Top Bars	Others
#3	2' - 4"	1' - 10"
#4	3' - 1"	2' - 5"
#5	3' - 11"	3' - 0"
#6	4' - 8"	3' - 7"

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209.941.7200

Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: AR
Checked By: HJT

No.	Description	Date	By

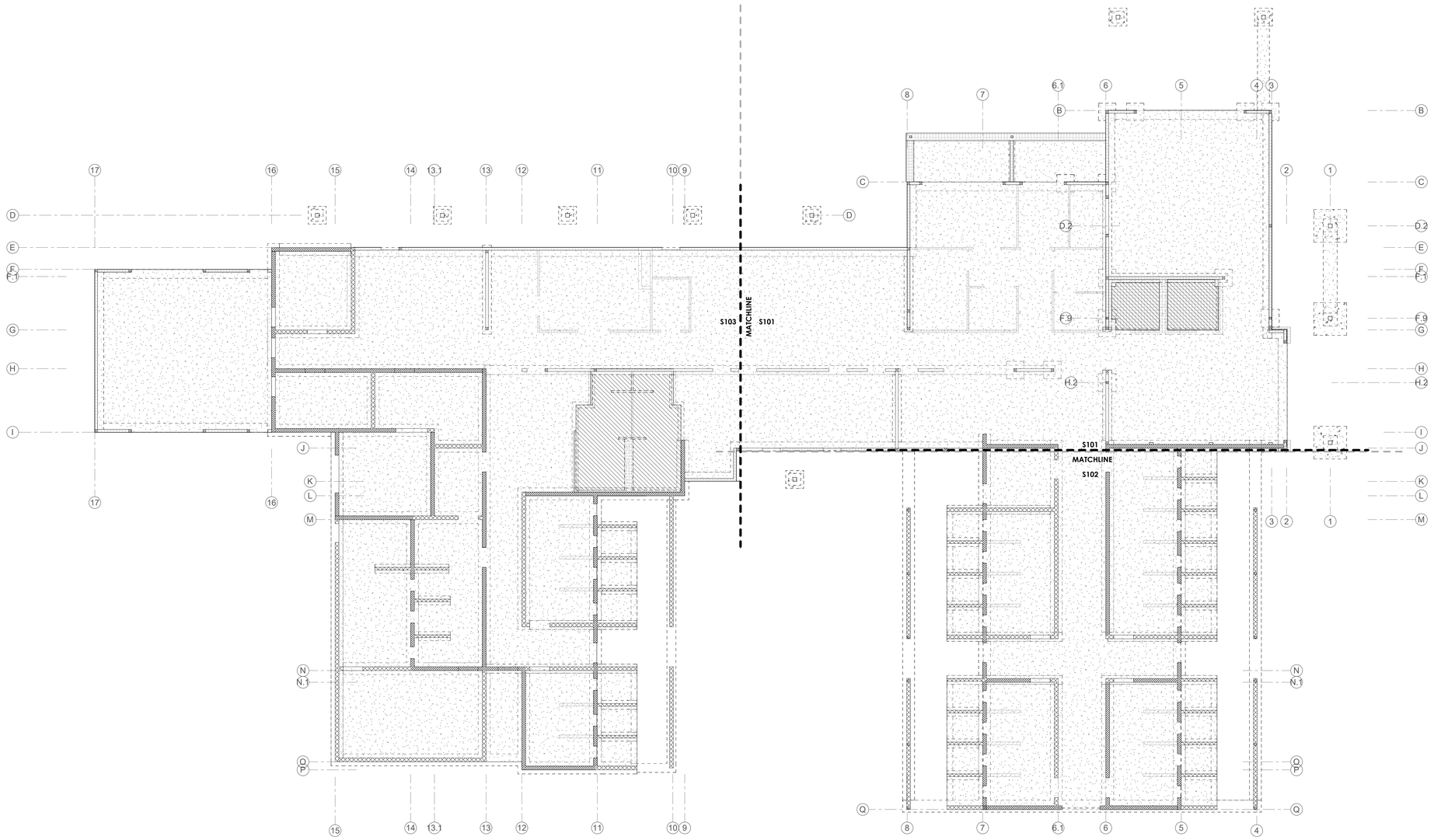
Bid Set
6/23/26

Structural Notes

S002

8/7/2026 10:53:17 AM

Structural Foundation Schedule					
Type Mark	Length	Width	Thickness	Count	Reinforcing Schedule
	6' - 11 3/32"	1' - 0"	0' - 8"	1	
A	3' - 0"	3' - 0"	2' - 0"	3	Top & Bott: #4 @ 8" O.C. ea. way
D	2' - 11"	2' - 11"	2' - 0"	11	See 11/S105
E	3' - 0"	3' - 0"	1' - 6"	8	Bott: #4 @ 8" O.C.ea way
F	5' - 6"	5' - 6"	1' - 6"	3	Top & Bott: #4 @ 8" O.C. ea. way



1 S100 Overall Foundation Plan
1/8" = 1'-0"

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Bid Set
6/23/26

Overall Foundation Plan

S100

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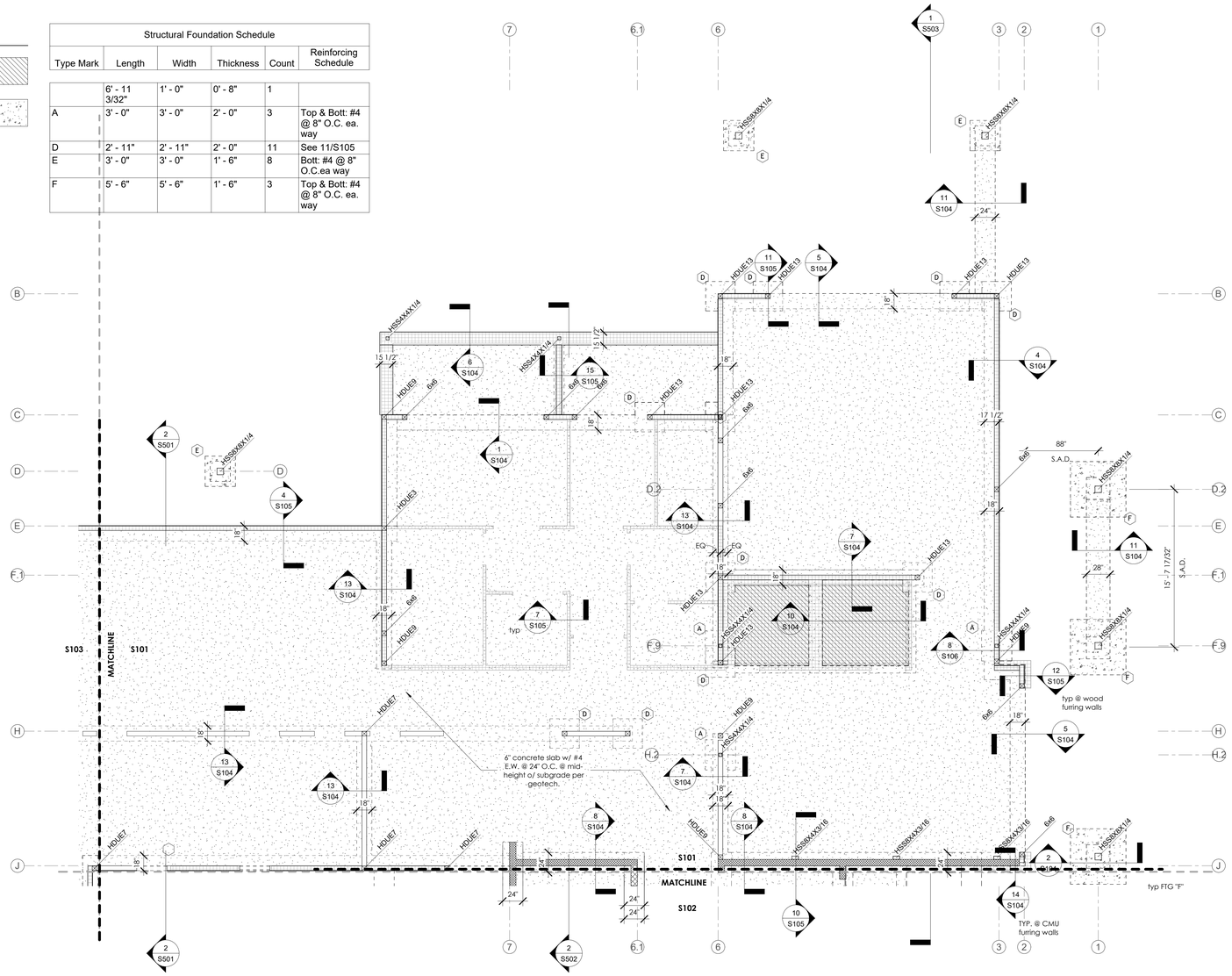
Slab on grade legend

concrete slab on grade 2" below F.G.

6" concrete slab on grade

Structural Foundation Schedule					
Type Mark	Length	Width	Thickness	Count	Reinforcing Schedule
	6' - 11 3/32"	1' - 0"	0' - 8"	1	
A	3' - 0"	3' - 0"	2' - 0"	3	Top & Bott: #4 @ 8" O.C. ea. way
D	2' - 11"	2' - 11"	2' - 0"	11	See 11/S105
E	3' - 0"	3' - 0"	1' - 6"	8	Bott: #4 @ 8" O.C.ea way
F	5' - 6"	5' - 6"	1' - 6"	3	Top & Bott: #4 @ 8" O.C. ea. way



1 S101 FDN - Area A
3/16" = 1'-0"

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15005 STANFORD CROSSING
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Key Plan:

Project No.: 25-0278
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No.	Description	Date	By

Bid Set
6/23/26

Enlarged Foundation Plan - Area A

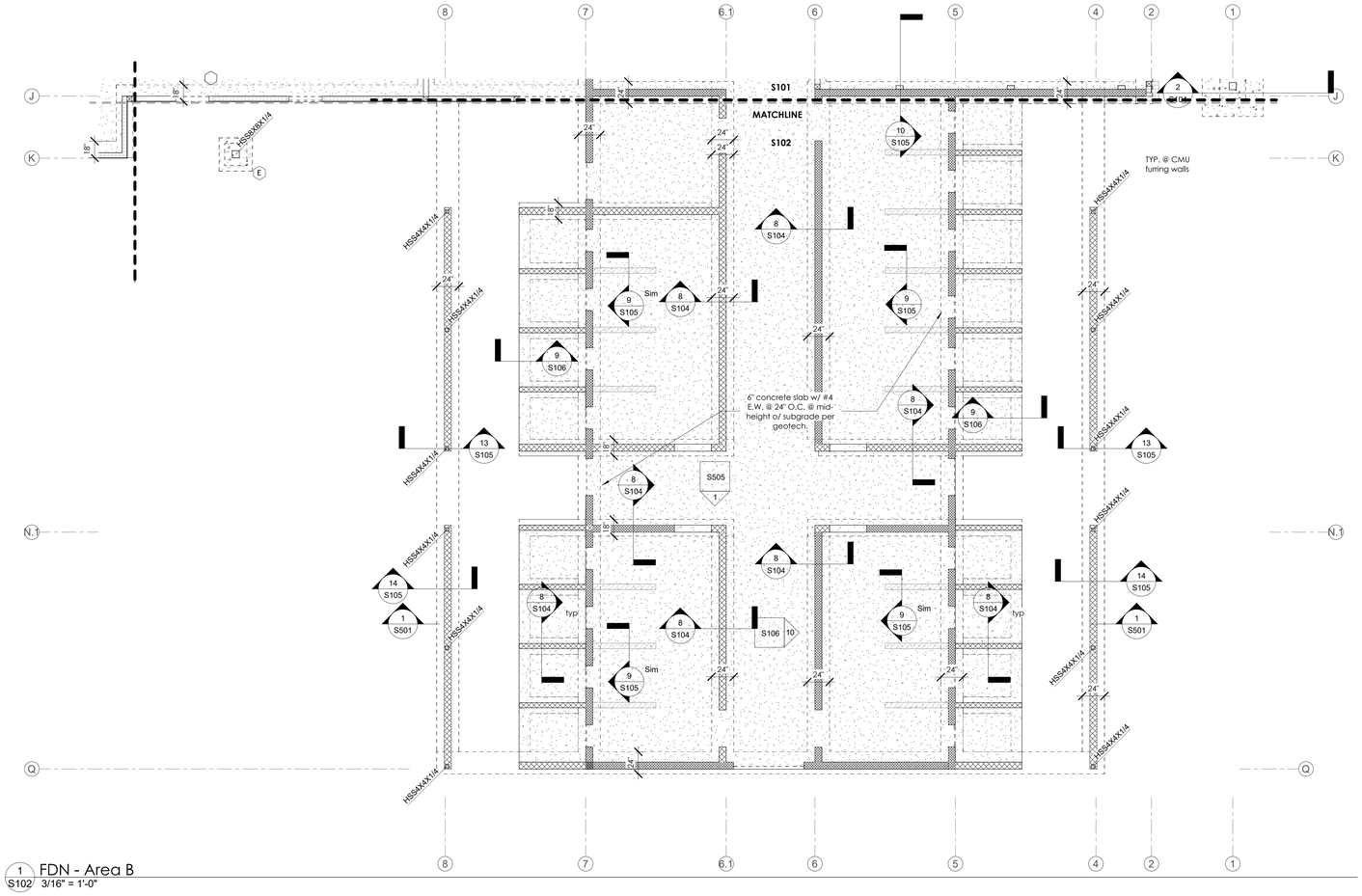
S101

6/17/2026 10:53:04 AM

Slab on grade legend

concrete slab on grade 2" below F.G.

6" concrete slab on grade



1 S102 FDN - Area B
3/16" = 1'-0"

Structural Foundation Schedule					
Type Mark	Length	Width	Thickness	Count	Reinforcing Schedule
	6' - 11 3/32"	1' - 0"	0' - 8"	1	
A	3' - 0"	3' - 0"	2' - 0"	3	Top & Bott: #4 @ 8" O.C. ea. way
D	2' - 11"	2' - 11"	2' - 0"	11	See 11/S105
E	3' - 0"	3' - 0"	1' - 6"	8	Bott: #4 @ 8" O.C.ea way
F	5' - 6"	5' - 6"	1' - 6"	3	Top & Bott: #4 @ 8" O.C. ea. way

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Project:
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15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: AR
Checked By: HJT

No.	Description	Date	By

Bid Set
6/23/26

Enlarged Foundation Plan - Area B

S102

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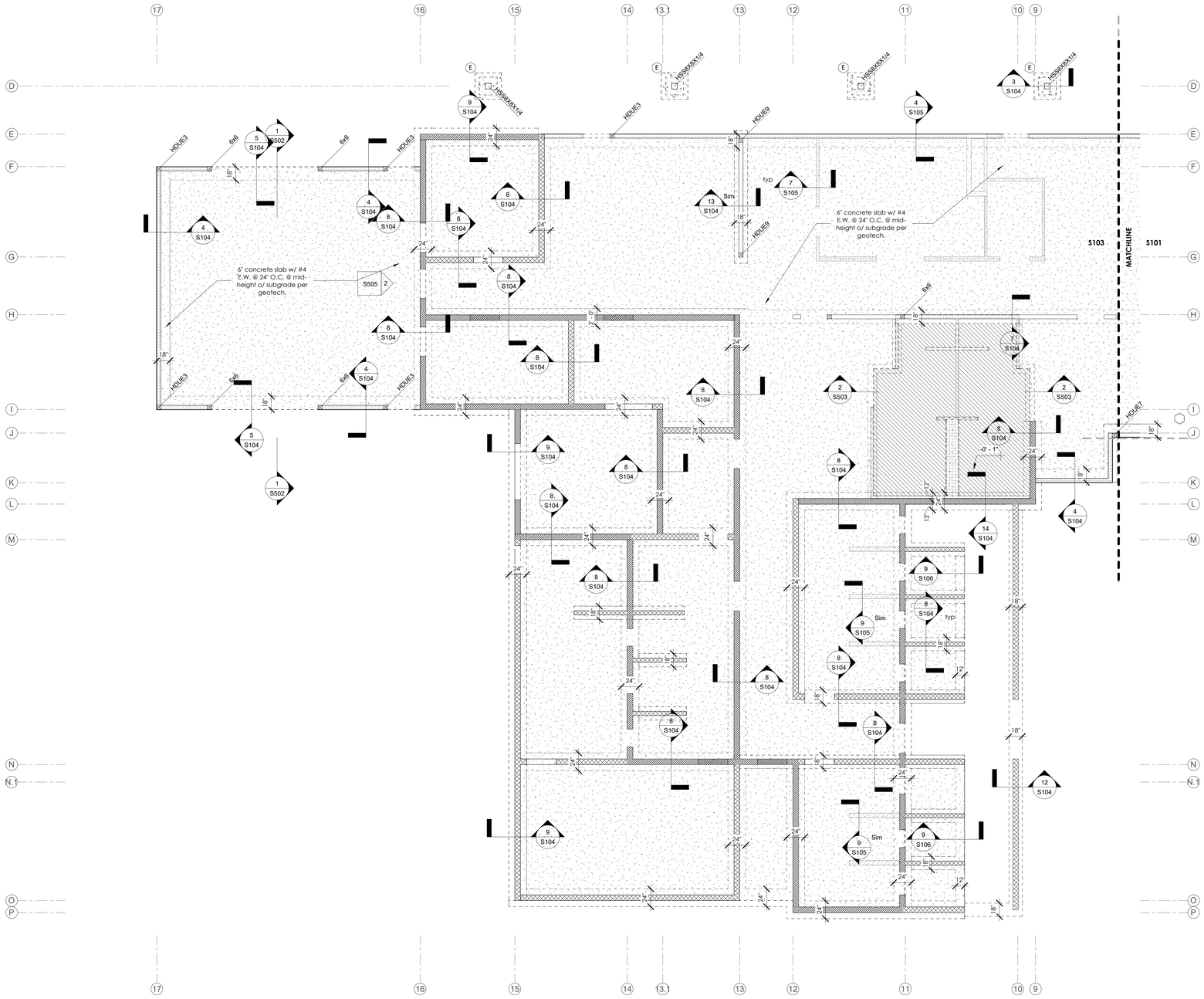

1 S103 FDN - Area C
3/16" = 1'-0"

Structural Foundation Schedule					
Type Mark	Length	Width	Thickness	Count	Reinforcing Schedule
	6' - 11 3/32"	1' - 0"	0' - 8"	1	
A	3' - 0"	3' - 0"	2' - 0"	3	Top & Bott: #4 @ 8" O.C. ea. way
D	2' - 11"	2' - 11"	2' - 0"	11	See 11/S105
E	3' - 0"	3' - 0"	1' - 6"	8	Bott: #4 @ 8" O.C.ea way
F	5' - 6"	5' - 6"	1' - 6"	3	Top & Bott: #4 @ 8" O.C. ea. way

Slab on grade legend

concrete slab on grade 2" below F.G.

6" concrete slab on grade

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Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: AR
Checked By: HJT

No. Description Date By

Bid Set
6/23/26

Enlarged Foundation Plan - Area C

S103

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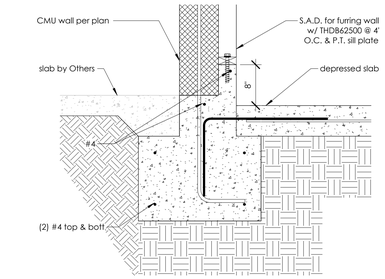
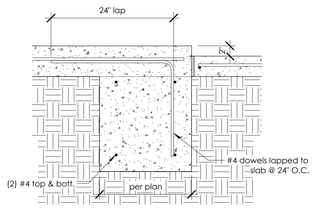
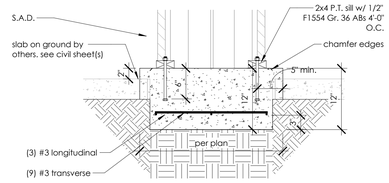


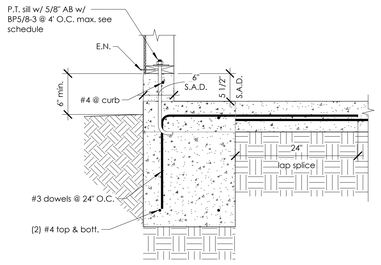
14 S104 CMU & Furring Wall
1" = 1'-0"



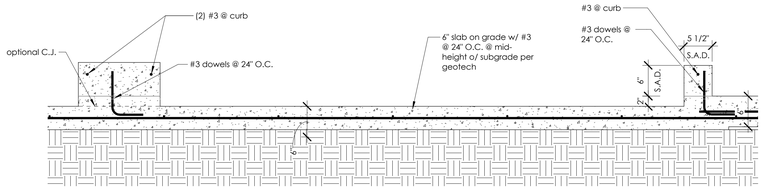
1 S104 Cattio Perimeter
1" = 1'-0"



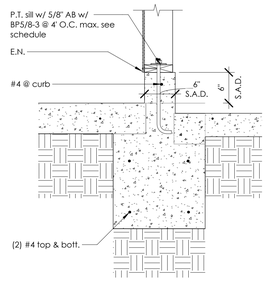
11 S104 Exterior Spread Footing
1" = 1'-0"



4 S104 Wood Framed Wall - Perimeter Foundation
1" = 1'-0"



10 S104 Depressed Slab
1" = 1'-0"



7 S104 Interior Foundation - Structural Wall
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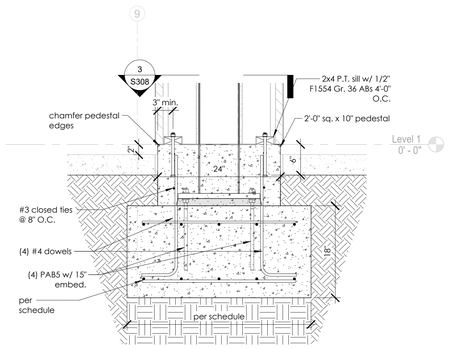
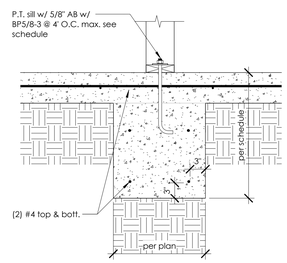
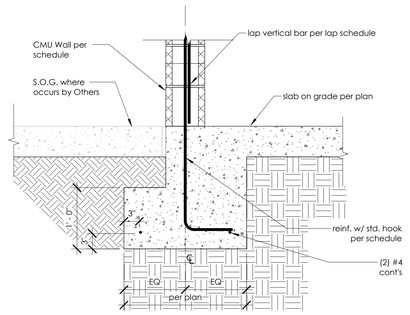


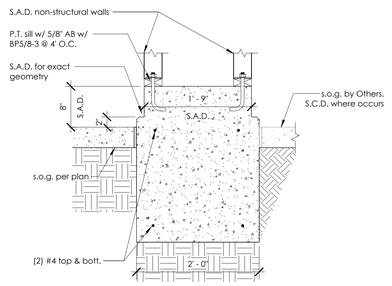
3 S104 Footing Pad with Pedestal
1" = 1'-0"



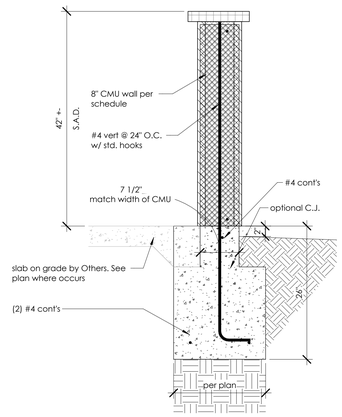
13 S104 Interior Footing - No Curb
1" = 1'-0"



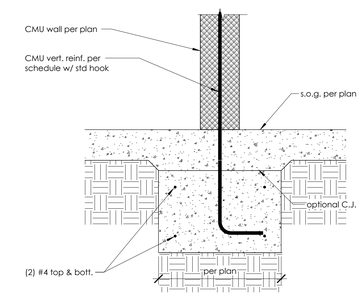
9 S104 CMU Perimeter Footing revised
1" = 1'-0"



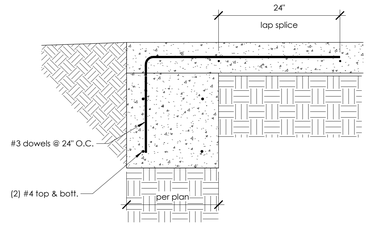
6 S104 Outdoor Yard Perimeter Foundation
1" = 1'-0"



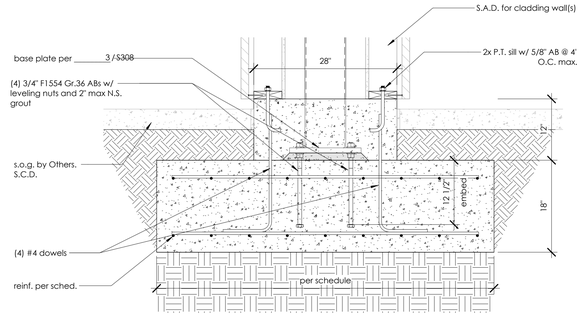
12 S104 CMU Wall At Grade Beam
1" = 1'-0"



8 S104 CMU Wall - Interior Foundation
1" = 1'-0"



5 S104 Perimeter Foundation - No Curb
1" = 1'-0"



2 S104 HSS @ FTG E
1" = 1'-0"

LDA DESIGNERS & ARCHITECTS

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6/18/2026

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209.941.7200

Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: AR
Checked By: HJT

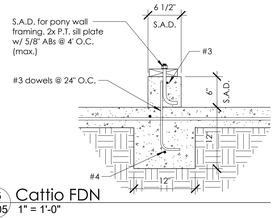
No.	Description	Date	By

Bid Set
6/23/26

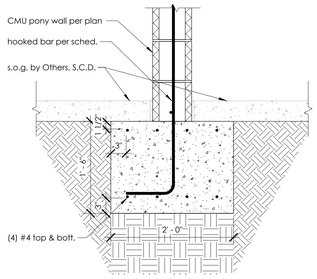
Foundation Details

S104

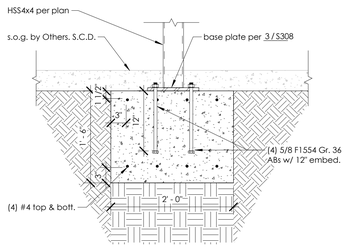
P:\170025 S104.S.dwg



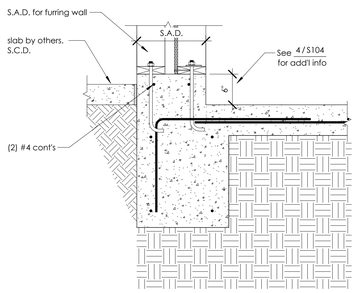
15 S105 Cattio FDN
1" = 1'-0"



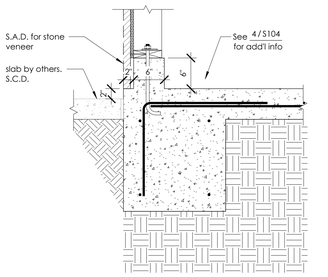
14 S105 Grade Beam Foundation
1" = 1'-0"



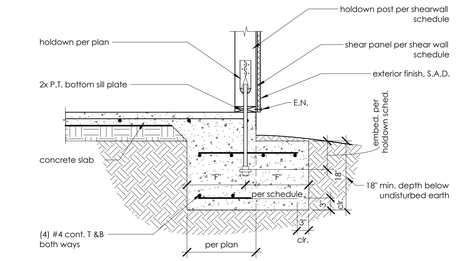
13 S105 HSS4x4 @ Grade Beam
1" = 1'-0"



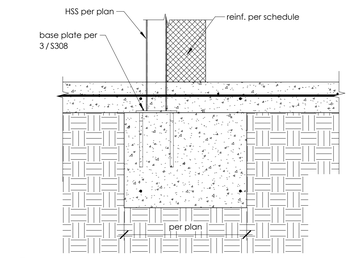
12 S105 Furring Wall @ Perimeter
1" = 1'-0"



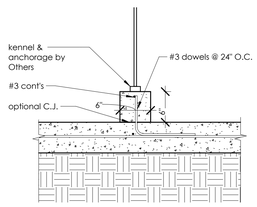
4 S105 Wainscott Wall - Perimter
1" = 1'-0"



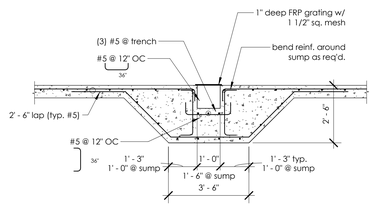
11 S105 Enlarged Footing @ HDUE13
3/4" = 1'-0"



10 S105 HSS4x8 Footing
1" = 1'-0"

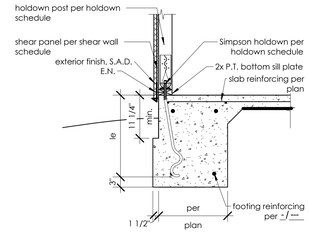


9 S105 Concrete Curb @ Kennel
1" = 1'-0"

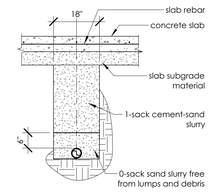


8 S105 Trench Drain Detail
3/8" = 1'-0"

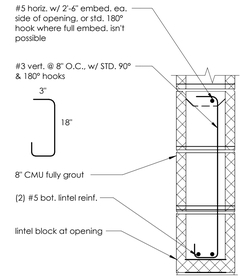
7 S105 Typical Curb Detail
1" = 1'-0"



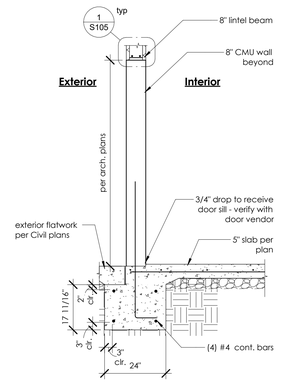
6 S105 Holdown Detail
3/4" = 1'-0"



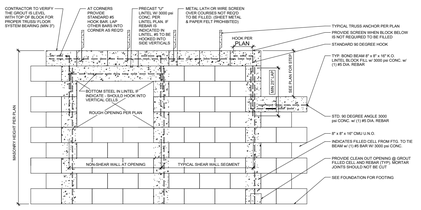
5 S105 Trench Detail For Interior Pipes
1/2" = 1'-0"



1 S105 Typical Lintel Detail
1 1/2" = 1'-0"



2 S105 Sill Footing @ Door
1/2" = 1'-0"



3 S105 Typical Masonry Wall Reinforcing @ Ceiling
3/4" = 1'-0"

LDA DESIGNERS & ARCHITECTS

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Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: ORL
Checked By: HJT

No.	Description	Date	By

Bid Set
6/23/26

Foundation Details

S105

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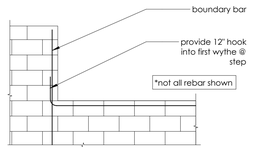
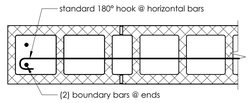
CMU Wall Schedule				
Type	Wall Type	Vert. Bar Spacing	Horiz. Bar Spacing	Boundary Rebar
8in CMU shear	A	#5 @ 24" OC	#5 @ 24" OC	(2) #5
8in CMU shear 2	B	#5 @ 24" OC	#5 @ 16" OC	(2) #5



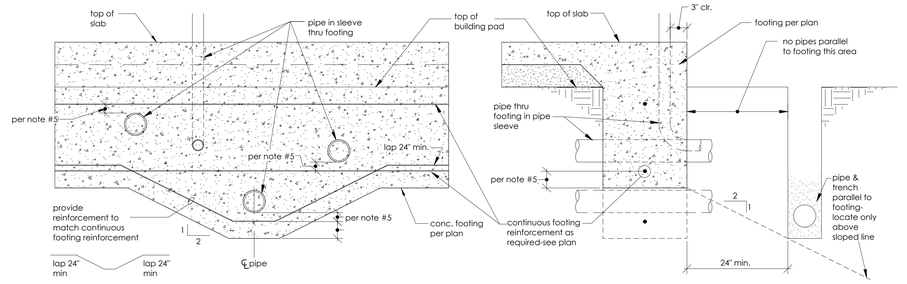
12 S106 CMU Rebar @ Wall Step
3/8" = 1'-0"



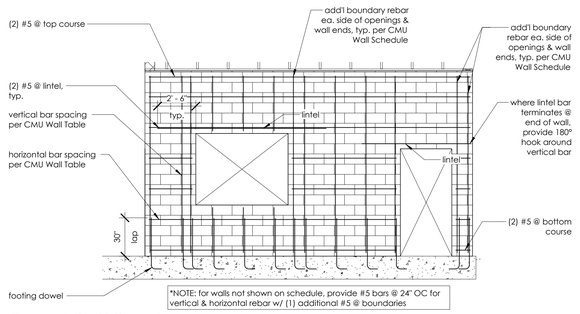
11 S106 Wall End Reinforcing
1 1/2" = 1'-0"

NOTES

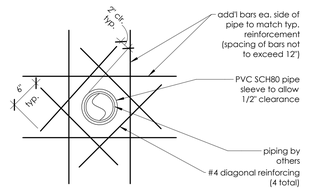
1. Sleeves shall be PVC. Inner diameter to be 2" larger than pipe outer diameter
2. Plumbing embedded in concrete shall be provided w/ flexible couplings @ entry & exit points
3. "Pipe" = any penetration thru foundation to allow for 1" of motion in any direction
4. No "pipe" to run parallel in footings
5. Wrapped pipes shall have 1 1/2" clear from wrapping to reinforcing. Sleeved pipes shall have 1 1/2" min. clearance to reinforcing. Wrap w/ 1/8" foam sheet, 3 layers min. sleeved pipes per notes.
6. Clearance between "pipes" shall be 6" when 4 or more "pipes" are grouped in one area - provide engineered details of block-out



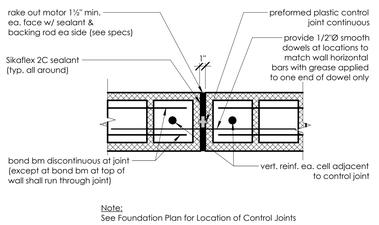
1 S106 Pipe Through Footing Detail Where Applies
3/8" = 1'-0"



10 S106 Typical CMU Elevation
1/4" = 1'-0"

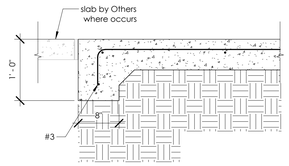


5 S106 Typ. Pipe Opening Detail
1" = 1'-0"

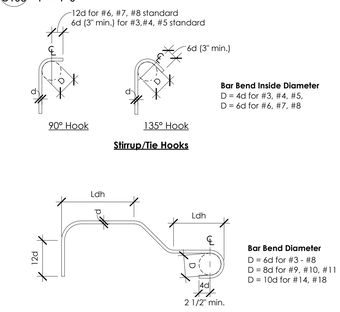


Note:
See Foundation Plan for Location of Control Joints

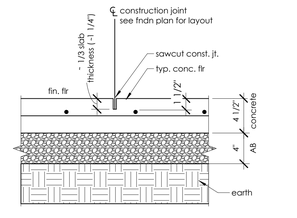
2 S106 Typical CMU Wall Control Joint
1 1/2" = 1'-0"



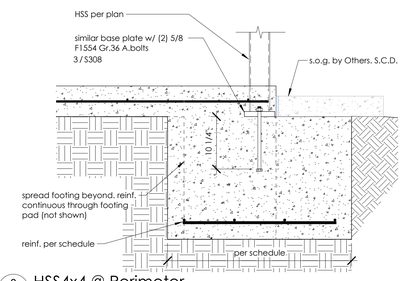
9 S106 Slab Edge
1" = 1'-0"



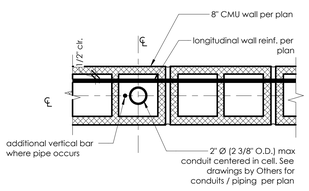
6 S106 Typical Bar Bending Schedule
3/16" = 1'-0"



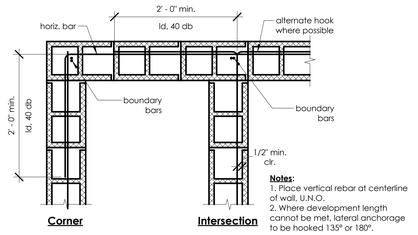
3 S106 Typical Control Joint
1 1/2" = 1'-0"



8 S106 HSS4x4 @ Perimeter
1" = 1'-0"



7 S106 Conduit in CMU Wall
1 1/2" = 1'-0"



4 S106 Typical Corner and Intersection Reinforcement
1" = 1'-0"

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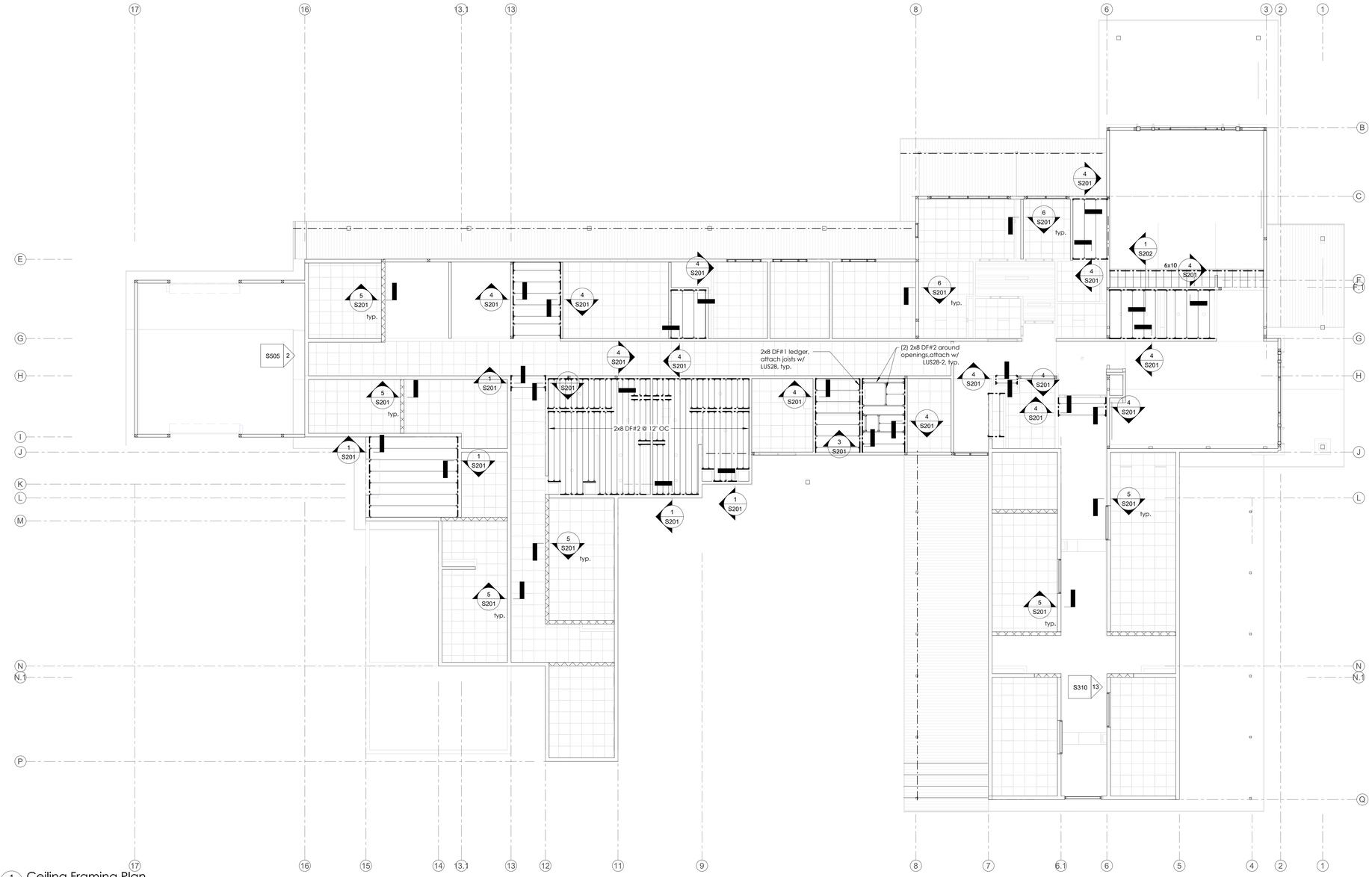
CMU & Foundation Details

S106

8/7/2026 10:45:39 AM



1 S200 Ceiling Framing Plan
1/8" = 1'-0"

Ceiling Framing Legend

- ACT system
- 2x8 DF#2 @ 24" OC U.O.N.
- Vaulted Ceiling

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Overall Ceiling Framing Plan

S200

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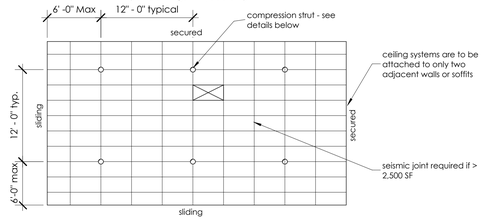
Acoustical Ceiling Suspension System

(for ceilings > 1,000 SF)

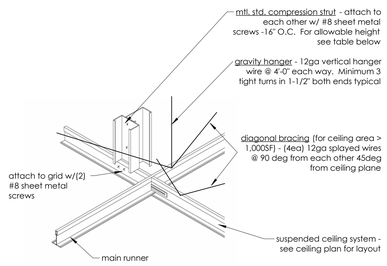


Seismic Bracing System and Suspension Notes

1) A compression strut fastened to the main runner shall be extended to the structural members above i.e. the roof structural members, the floor above or a rigid bracing system.
2) The compression struts shall be 12' on center maximum and begin no further than 6' from the walls.
3) Compression struts must be spaced a minimum of 6" from all horizontal piping or duct work that is not provided with bracing restraints for lateral forces.
4) Bracing wires must be attached to the grid and to the above structure to support a design load of 200 lbs or the actual load, whichever is greater, with a safety factor of 2.
5) Where the roof system is composed of wood beams, purlins and sub-purlins, the 2x4 or 2x6 sub-purlins are not to be considered appropriate structural members for support.
6) Ceiling suspension systems shall comply with 803.9 and 2506.2.1 of the CBC. Components shall be ASTM C635 "heavy duty" class.
7) The compression strut shall be vertical and shall not be out of plumb more than 1" in 10'.
8) Compression struts are exempt for ceilings <1,000 SF per ASTM report ESR0 section 1.5 and 5.2.8.1

7 S201 **Acoustical Ceiling Suspension System**
1/8" = 1'-0"

Metal Stud Compression Strut Detail

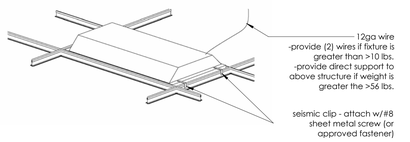


mtl. stud allowable height table

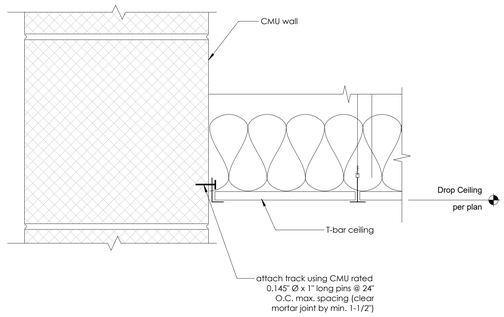
type	single ⌋	double ⌋⌐
250S125-33	12' - 0"	20' - 0"
362S125-43	13' - 0"	27' - 0"
600S125-43	14' - 0"	42' - 0"

Note: table based on 1-1/4" leg with a 3/8" return. see above for double connection stud orientation

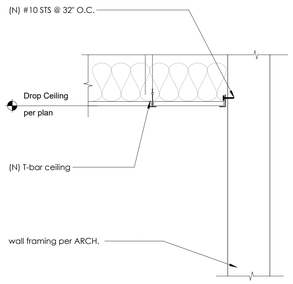
Light Fixture Attachment Detail



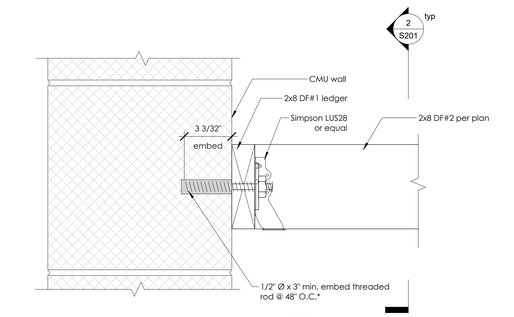
8 S201 **Acoustical Ceiling Suspension System**
1/4" = 1'-0"



5 S201 **Ledger Section @ Drop Ceiling**
3" = 1'-0"

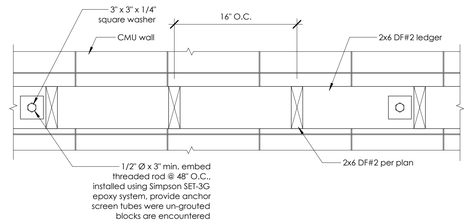


6 S201 **Ceiling @ Drop Ceiling**
1 1/2" = 1'-0"

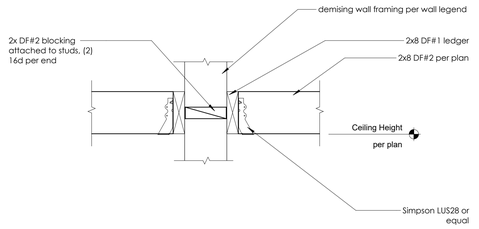


Notes:
*Install in grouted cells only (~48" O.C.), if empty cells are encountered then install using Simpson SET-3G epoxy system, provide anchor screen tubes were un-grouted blocks are encountered

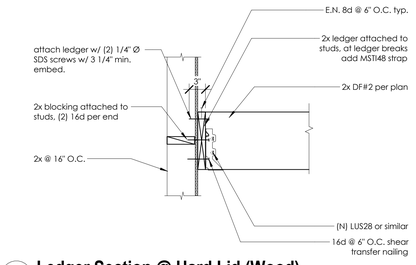
1 S201 **Ledger Section @ Hard Lid**
3" = 1'-0"



2 S201 **Joist to Ledger Connection**
1 1/2" = 1'-0"



3 S201 **Joist to Demising Wall**
1 1/2" = 1'-0"



4 S201 **Ledger Section @ Hard Lid (Wood)**
1" = 1'-0"

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

REGISTERED PROFESSIONAL ENGINEER BRIAN J.M. TALBOTT C 79264 CIVIL STATE OF CALIFORNIA
6/18/2026

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: ORL
Checked By: HJT

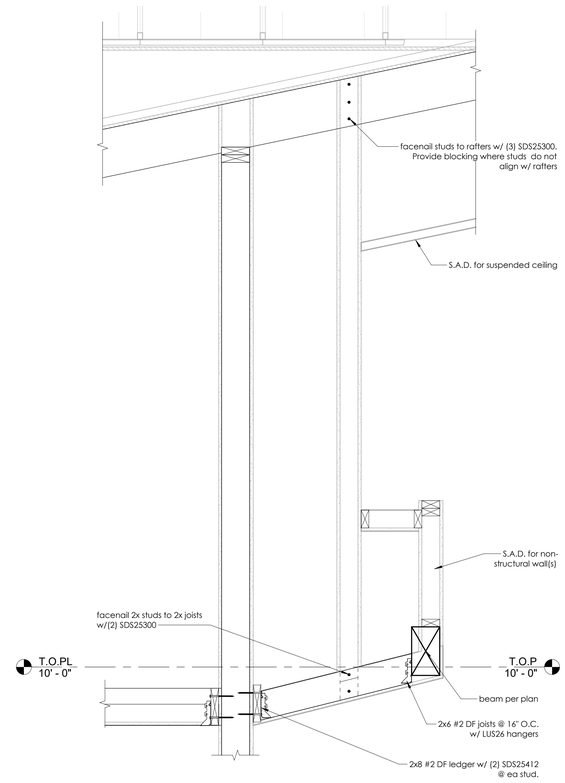
No.	Description	Date	By

Bid Set
6/23/26

Ceiling Framing Details

S201

8/7/2026 9:54:21 AM



1 S202 Cantilevered Ceiling Construction
1" = 1'-0"

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
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REGISTERED PROFESSIONAL ENGINEER
HEATHER J.M. TALBOTT
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6/18/2026

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209.941.7200

Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: ORL
Checked By: HJT

No.	Description	Date	By

Bid Set
6/23/26

Ceiling Framing Details

S202

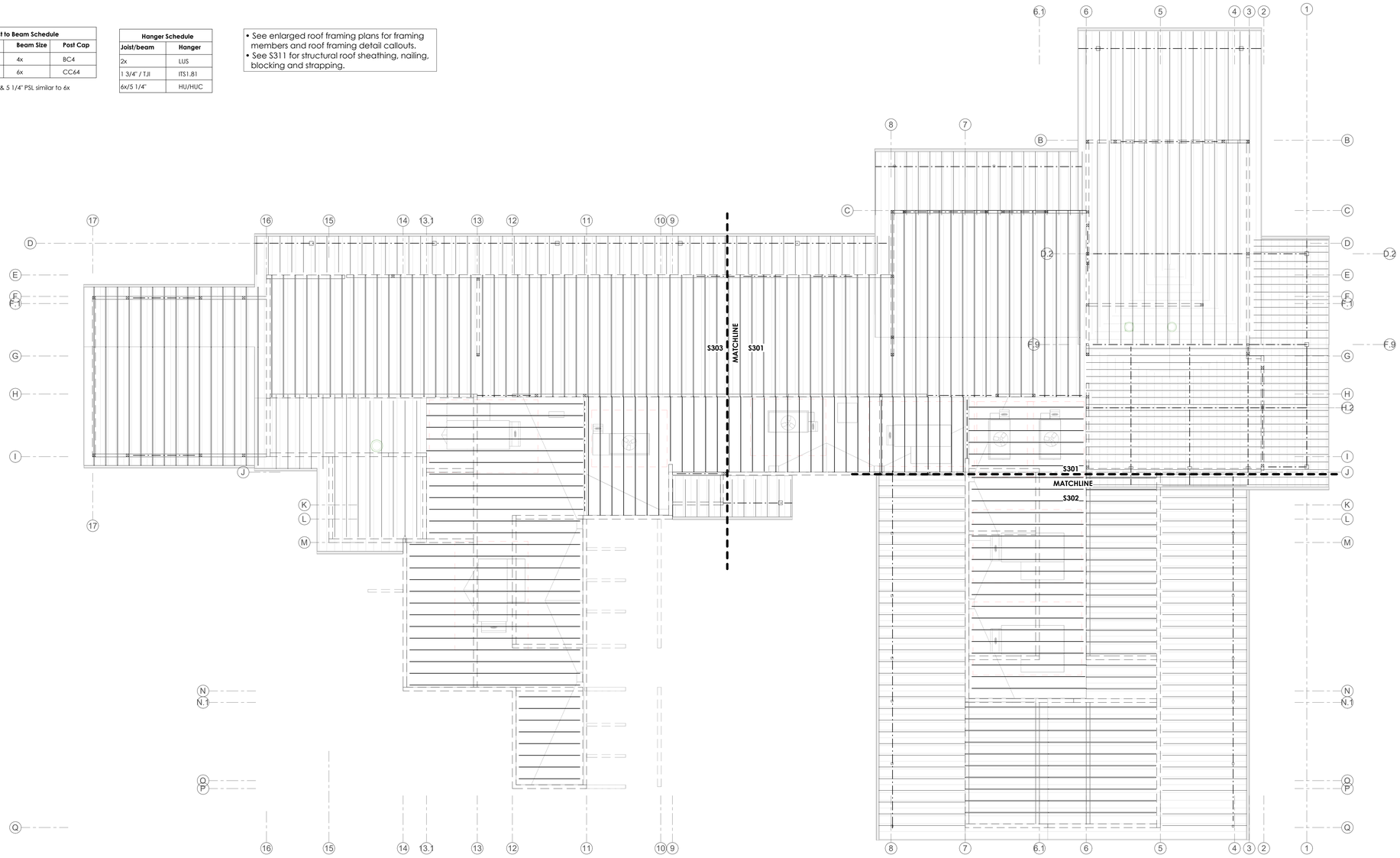
6/17/2026 10:43:17 AM

Post to Beam Schedule		
Post Size	**Beam Size**	**Post Cap**
4x	4x	BC4
6x	6x	CC64

(3) 1 3/4" LVL & 5 1/4" PSL similar to 6x

Hanger Schedule	
Joist/beam	**Hanger**
2x	LUS
1 3/4" / TJI	ITS1.81
6x/5 1/4"	HU/HUC

- See enlarged roof framing plans for framing members and roof framing detail callouts.
- See S311 for structural roof sheathing, nailing, blocking and strapping.



1 S300 Overall Roof Framing Plan
1/8" = 1'-0"

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

REGISTERED PROFESSIONAL ENGINEER
BRIAN J.M. TALBOT
C 79264
CIVIL
STATE OF CALIFORNIA
6/18/2026

Client:
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390 Towne Center Dr.
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209.941.7200

Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: AR
Checked By: HJT

No.	Description	Date	By

Bid Set
6/23/26

Roof Framing Plan

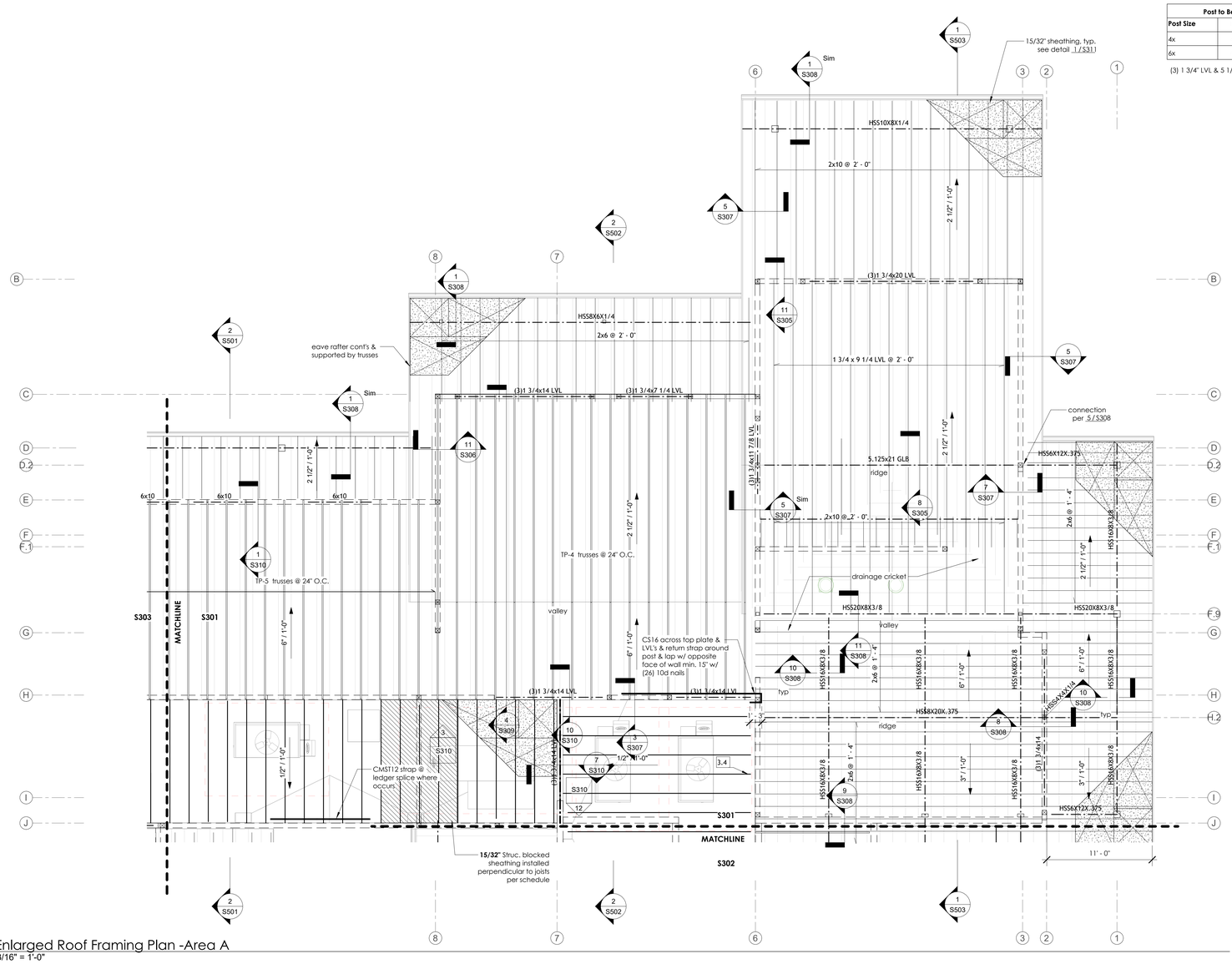
S300

BY15005 S300.DWG

Post to Beam Schedule		
Post Size	**Beam Size**	**Post Cap**
4x	4x	BC4
6x	6x	CC64

(3) 1 3/4" LVL & 5 1/4" PSL similar to 6x

Hanger Schedule	
Joist/beam	**Hanger**
2x	LUS
1 3/4" / TJI	ITS1.81
6x/5 1/4"	HU/HUC



1 S301 Enlarged Roof Framing Plan -Area A
3/16" = 1'-0"

LDA DESIGNERS & ARCHITECTS

Architect:
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Designers & Architects
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Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: AR
Checked By: HJT

No.	Description	Date	By

Bid Set
6/23/26

Enlarged Roof Framing Plan - Area A

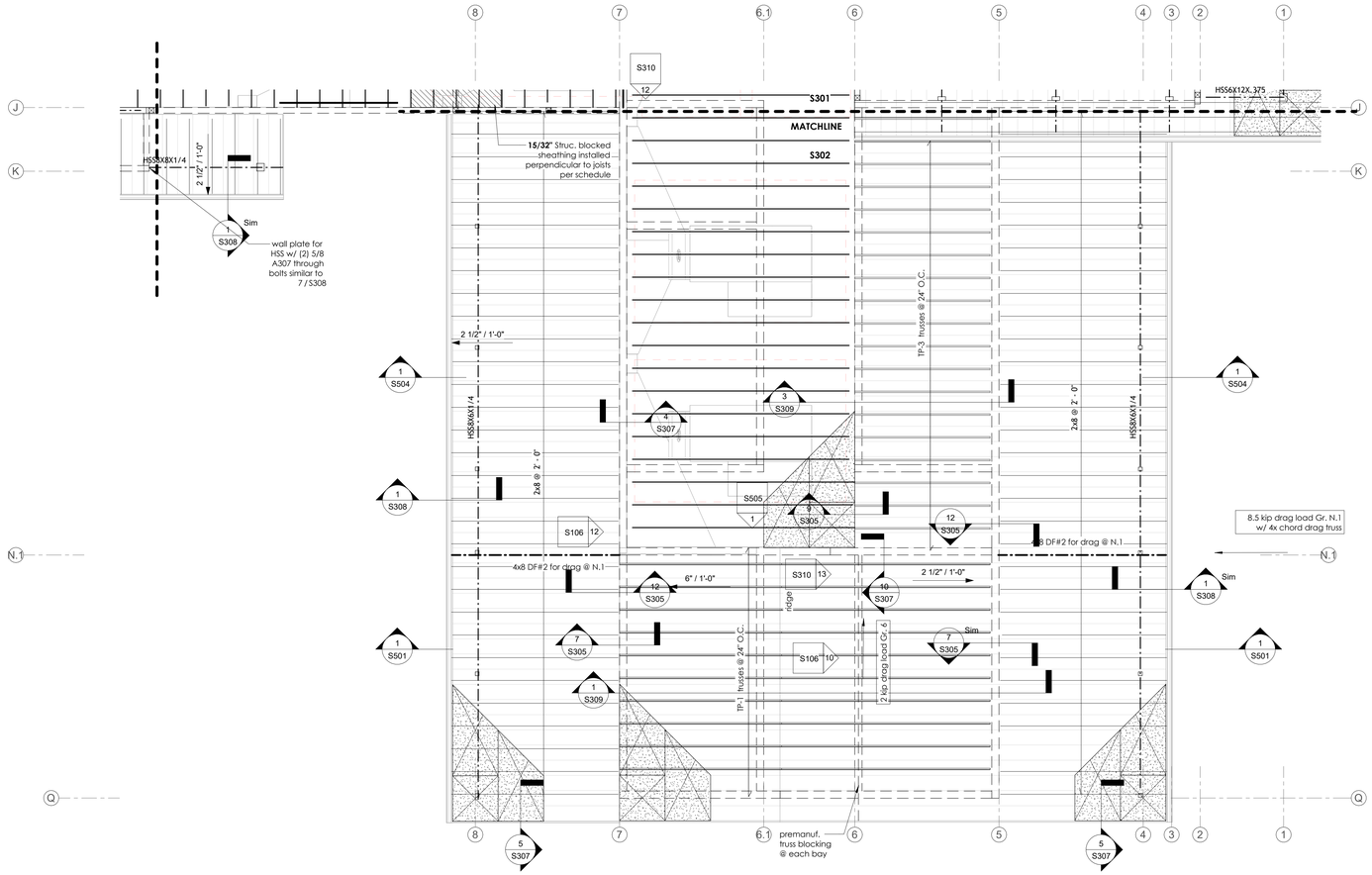
S301

8/7/2026 10:54:4 AM

Post to Beam Schedule		
Post Size	**Beam Size**	**Post Cap**
4x	4x	BC4
6x	6x	CC64

(3) 1 3/4" LVL & 5 1/4" PSL similar to 6x

Hanger Schedule	
Joist/beam	**Hanger**
2x	LUS
1 3/4" / TJI	ITS1.81
6x/5 1/4"	HU/HUC



1 S302 Enlarged Roof Framing Plan - Area B
3/16" = 1'-0"

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
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www.ldapartners.com

REGISTERED PROFESSIONAL ENGINEER BRIAN J.M. TALBOT C 79264 CIVIL STATE OF CALIFORNIA
6/18/2026

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Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: AR
Checked By: HJT

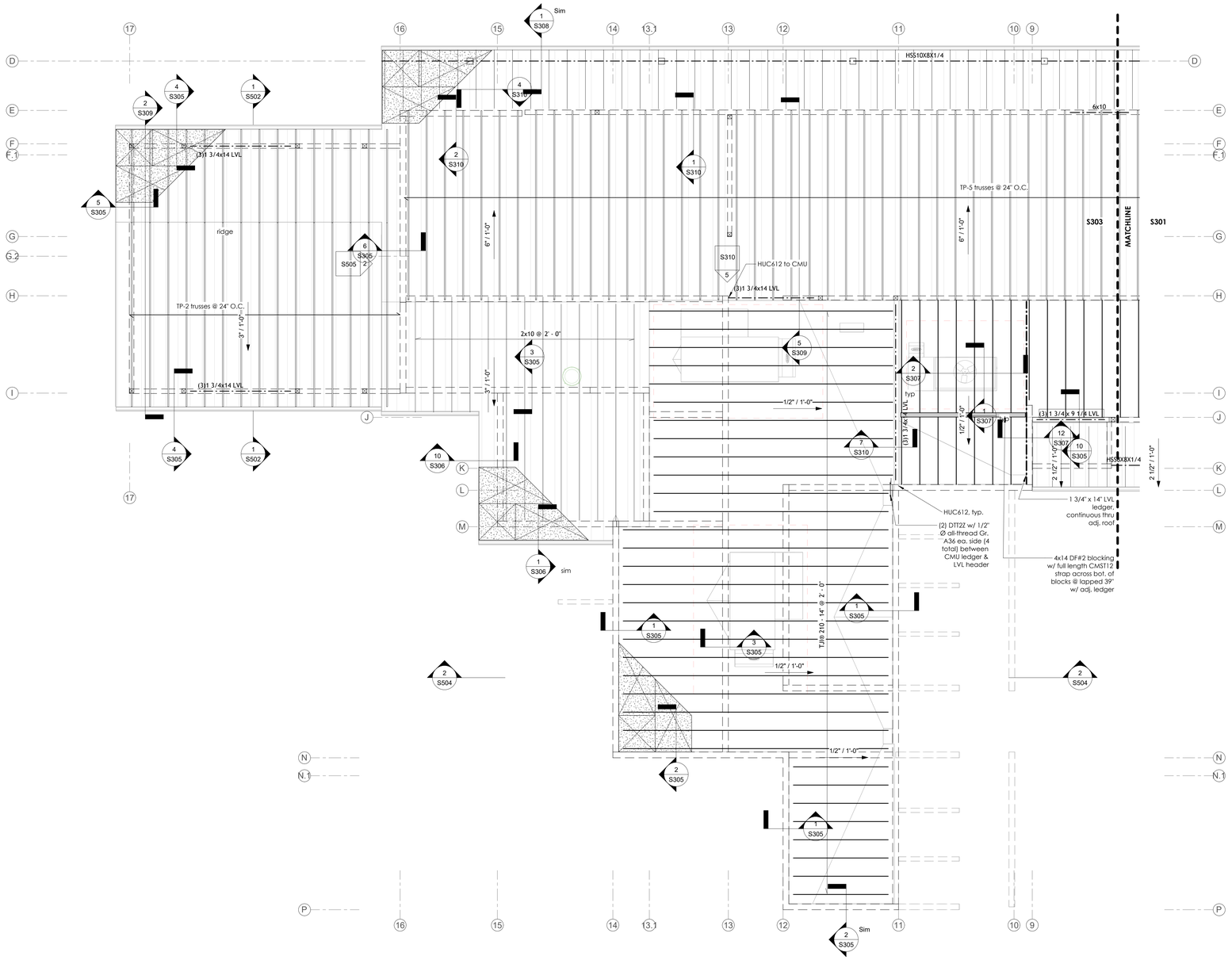
No.	Description	Date	By

Bid Set
6/23/26

Enlarged Roof Framing Plan - Area B

S302

6/17/2026 10:54:48 AM



Post to Beam Schedule

Post Size	Beam Size	Post Cap
4x	4x	BC4
6x	6x	CC64

(3) 1 3/4" LVL & 5 1/4" PSL similar to 6x

Hanger Schedule

Joist/beam	Hanger
2x	LUS
1 3/4" / TJI	ITS1.81
6x/5 1/4"	HU/HUC

1 S303 Enlarged Roof Framing Plan - Area C
3/16" = 1'-0"

LDA DESIGNERS & ARCHITECTS

Architect:
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LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: AR
Checked By: HJT

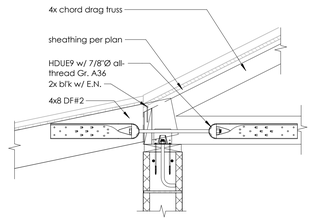
No.	Description	Date	By

Bid Set
6/23/26

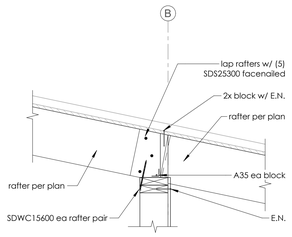
Enlarged Roof Framing Plan - Area C

S303

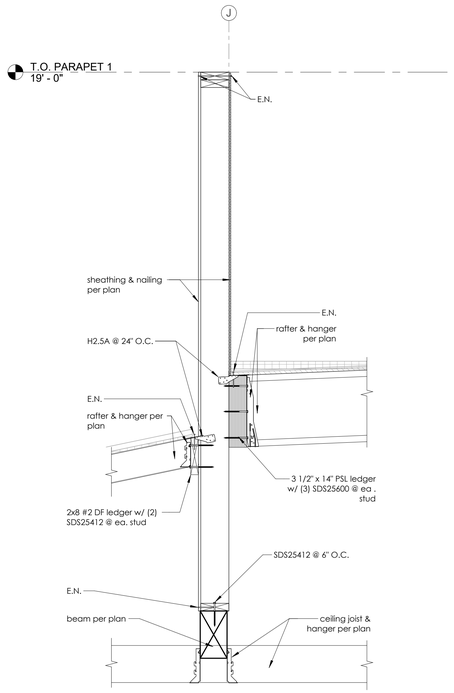
8/7/2026 10:54:58 AM



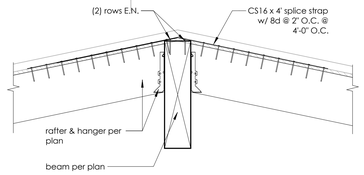
12 S305 Truss & Rafter - CMU Wall Grid N.1
1" = 1'-0"



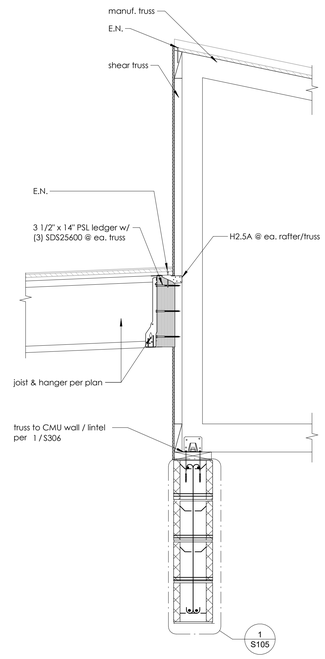
11 S305 Lapped Rafters
1" = 1'-0"



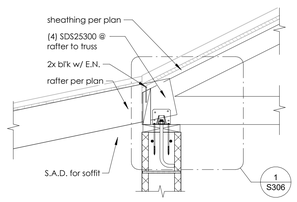
10 S305 Girder Supported Wall
1" = 1'-0"



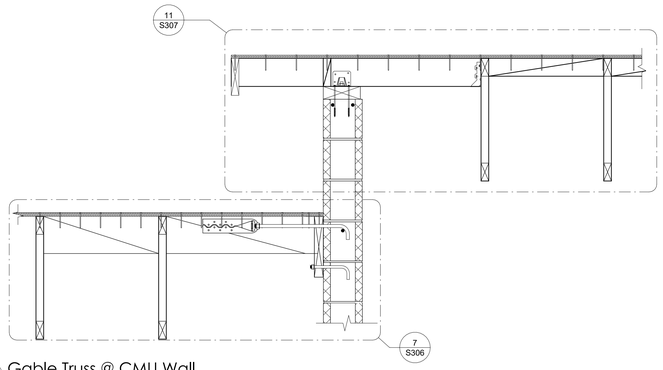
8 S305 Wood Ridge Beam
1" = 1'-0"



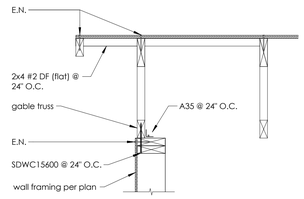
9 S305 Roof Framing @ Lintel
1" = 1'-0"



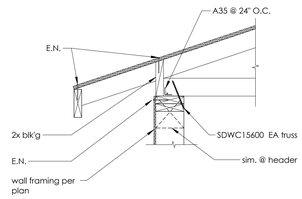
7 S305 Truss & Rafter - CMU Wall
1" = 1'-0"



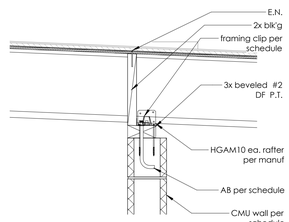
6 S305 Gable Truss @ CMU Wall
1" = 1'-0"



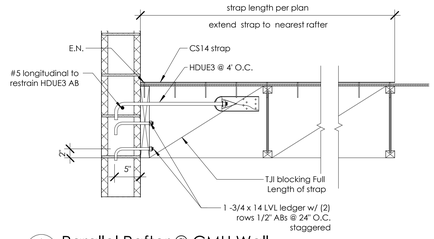
5 S305 Typ. Gable Wall Framing
1" = 1'-0"



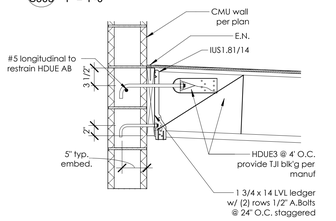
4 S305 Typ. Eave Truss Framing
1" = 1'-0"



3 S305 Interior CMU Shear Wall - Perpendicular
1" = 1'-0"



2 S305 Parallel Rafter @ CMU Wall
1" = 1'-0"



1 S305 Perpendicular Rafters @ CMU Wall
1" = 1'-0"

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

REGISTERED PROFESSIONAL ENGINEER
BRIAN J.M. TALBOTT
C 79264
CIVIL
STATE OF CALIFORNIA
6/18/2026

Client:
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390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: AR
Checked By: HJT

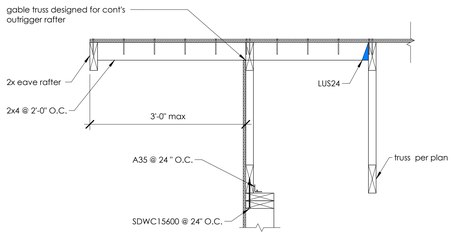
No.	Description	Date	By

Bid Set
6/23/26

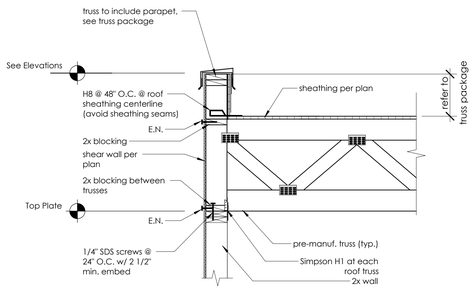
Roof Framing Details

S305

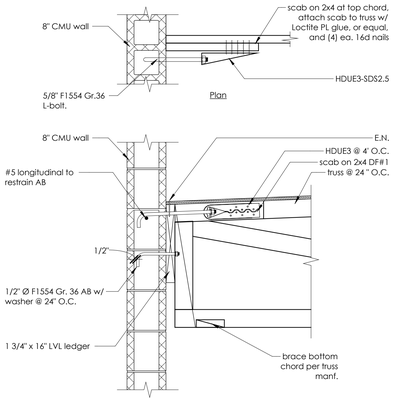
6/17/2026 9:50:57 AM



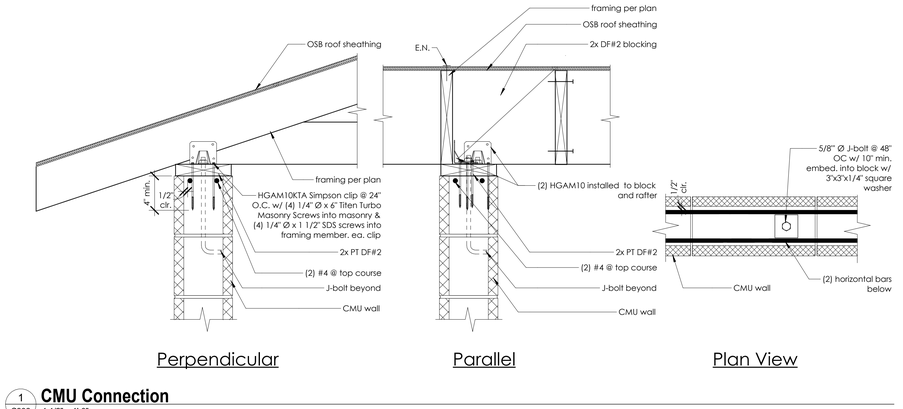
11 S306 Outrigger Rafter at Gable Wall
1" = 1'-0"



8 S306 Parapet Wall Section (Perp.)
3/4" = 1'-0"

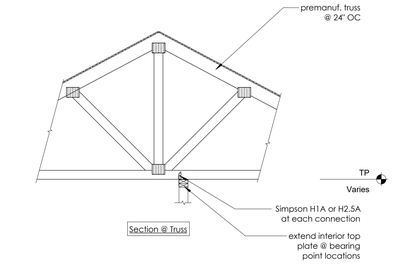


5 S306 Roof Ledger Detail - Parallel
1" = 1'-0"

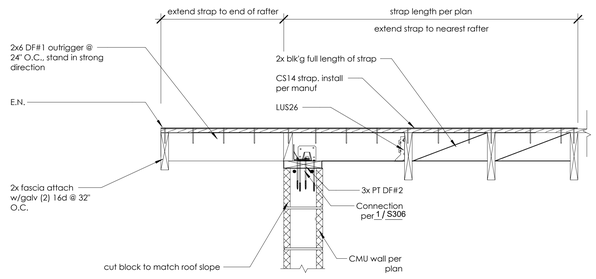


Perpendicular | Parallel | Plan View

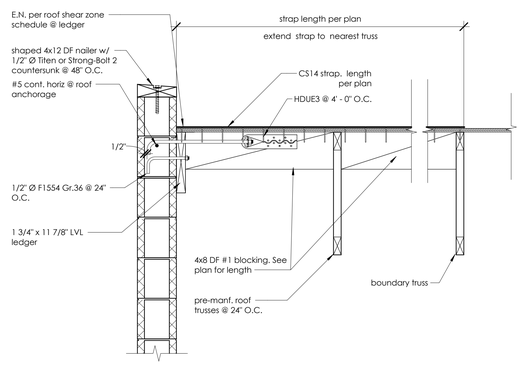
1 S306 CMU Connection
1 1/2" = 1'-0"



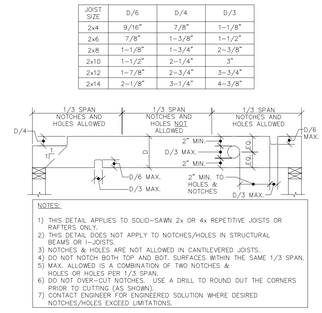
9 S306 Interior Bearing Wall Detail
1/2" = 1'-0"



10 S306 Outrigger Detail @ Joist
1" = 1'-0"



7 S306 Roof Ledger Detail - Perpendicular
1" = 1'-0"



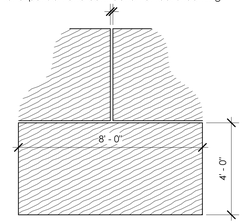
6 S306 Parapet Wall Section (Parallel)
3/4" = 1'-0"

JOIST SIZE	D/6	D/4	D/3
2x4	9/16"	7/8"	1-1/8"
2x6	7/8"	1-3/8"	1-1/2"
2x8	1-1/8"	1-3/4"	2-3/8"
2x10	1-1/2"	2-1/4"	3"
2x12	1-7/8"	2-3/4"	3-3/4"
2x14	2-1/8"	3-1/4"	4-3/8"

NOTES:
1) THIS DETAIL APPLIES TO SOLID-SAWN 2x OR 4x REPETITIVE JOISTS OR RAFTERS ONLY.
2) THIS DETAIL DOES NOT APPLY TO NOTCHES/HOLES IN STRUCTURAL BEAMS OR I-JOISTS.
3) NOTCHES & HOLES ARE NOT ALLOWED IN CANTILEVERED JOISTS.
4) DO NOT NOTCH BOTH TOP AND BOT. SURFACES WITHIN THE SAME 1/3 SPAN.
5) MAX. ALLOWED IS A COMBINATION OF TWO NOTCHES & HOLES OR HOLES PER 1/3 SPAN.
6) DO NOT OVER-CUT NOTCHES. USE A DRILL TO ROUND OUT THE CORNERS PRIOR TO CUTTING (AS SHOWN).
7) CONTACT ENGINEER FOR ENGINEERED SOLUTION WHERE DESIRED NOTCHES/HOLES EXCEED LIMITATIONS.

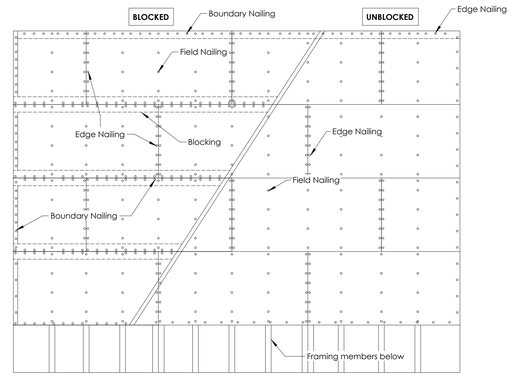
4 S306 Boring/Notching of Solid-Sawn Wood Joists/Rafter
1/4" = 1'-0"

1/8" ± 1/32" on all sides
for expansion and contraction of roof sheathing



NOTE: all panel sheathing is to be Structural I grade sheathing with 24" max. span - see 2022 CBC Table 2304.7(5)

2 S306 Roof Sheathing Detail
3/8" = 1'-0"



General Notes:
1. Min. size of plywood sheet shall be 2'-0" by 2'-0"
2. See plan for plywood thickness and nailing
3. Long Dimension of plywood shall run across (perpendicular to) joist or rafters.
4. Nail edge distance shall be min. 3/8" and shall not be driven through the outer plywood.
5. Continuous blocked panel edges shall receive edge nailing (blocked SHTG. only)
6. Stagger end joists 2'-0" min. as shown.
7. All joists and rafters shall be laid out in a 4'-0" module to coincide with plywood plans.
8. Nailing size and spacing as noted on plans.
9. Use tongue-in-groove plywood at floors.

3 S306 Roof/Diaphragm Layout
3/4" = 1'-0"

LDA DESIGNERS & ARCHITECTS

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REGISTERED PROFESSIONAL ENGINEER BRIAN J.M. TALBOTT C 79264 CIVIL STATE OF CALIFORNIA
6/18/2026

Client:
CITY OF LATHROP

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209.941.7200

Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: ORL
Checked By: HJT

No.	Description	Date	By

Bid Set
6/23/26

Roof Framing Details

S306

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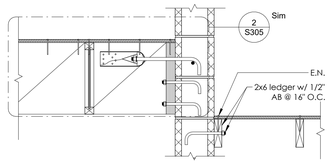
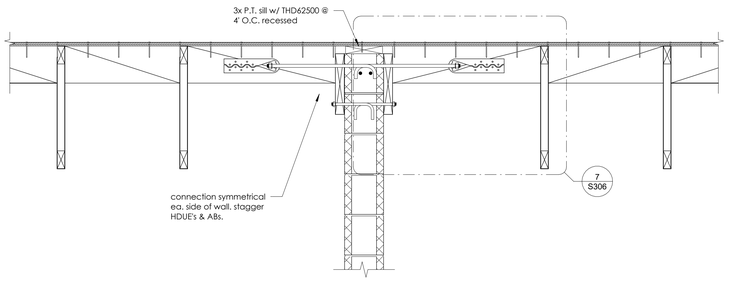
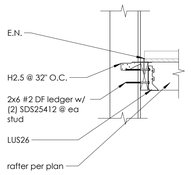


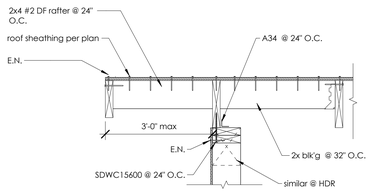
12 S307 Parallel Rafters @ CMU Wall
1" = 1'-0"



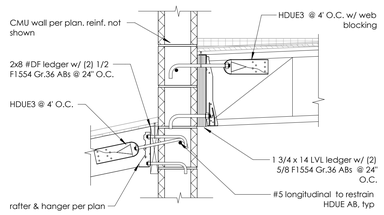
10 S307 Trusses ea. side of CMU wall
1" = 1'-0"



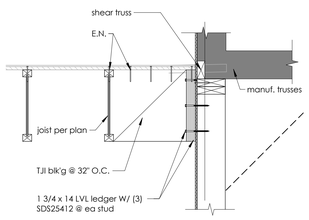
7 S307 Rafters @ Exterior Wall
1" = 1'-0"



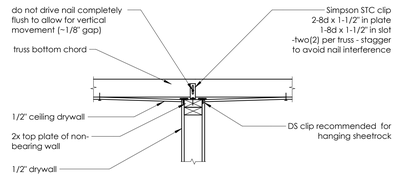
5 S307 Outrigger Detail
1" = 1'-0"



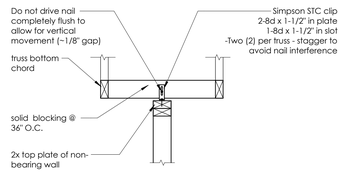
4 S307 Rafters @ CMU Wall
1" = 1'-0"



3 S307 Transverse Joists @ Trusses
1" = 1'-0"

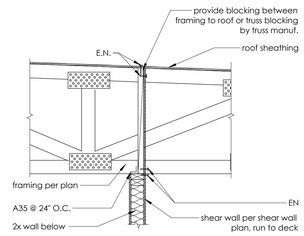


PERPENDICULAR

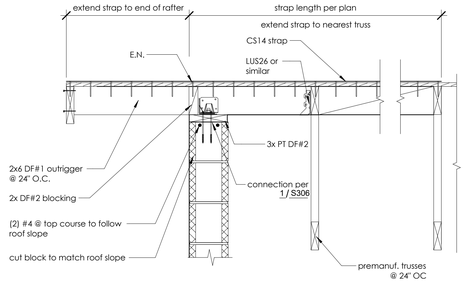


PARALLEL

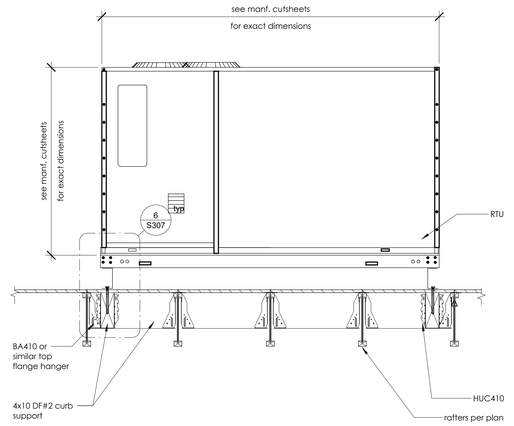
8 S307 Truss Clip Nonbearing Wall
1" = 1'-0"



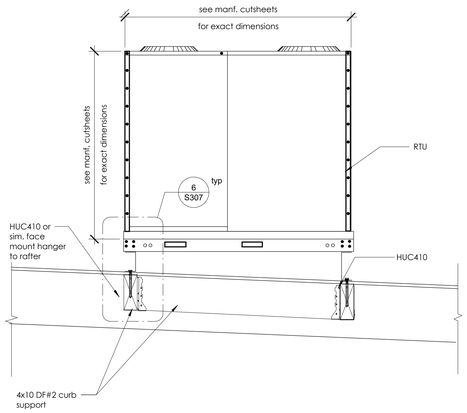
9 S307 Interior Shear Wall (Perp.)
3/4" = 1'-0"



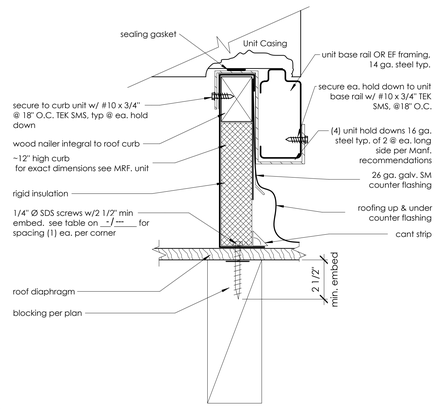
11 S307 Outrigger Detail @ Truss
1" = 1'-0"



2 S307 RTU Section 1 Rafters
3/4" = 1'-0"



1 S307 RTU Section 2 Rafters
3/4" = 1'-0"



6 S307 RTU Mounting Detail for New Unit
3" = 1'-0"

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Project:
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15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: ORL
Checked By: HJT

No.	Description	Date	By

Bid Set
6/23/26

Roof Framing Details

S307

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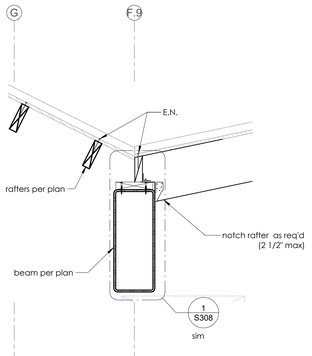
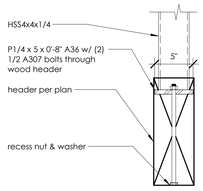
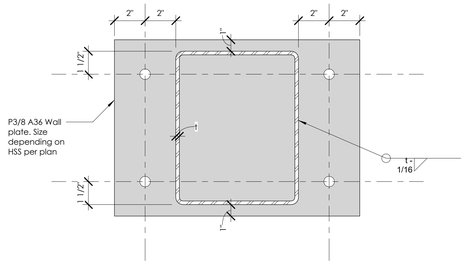


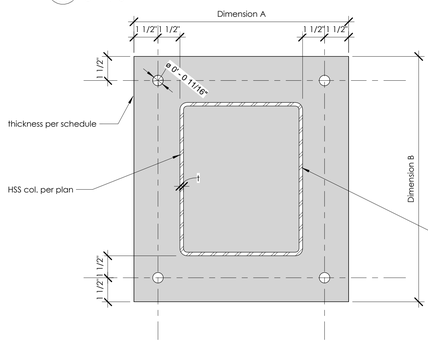
11 S308 Valley @ HSS Beam
1" = 1'-0"



8 S308 HSS Post @ Wood HDR
1 1/2" = 1'-0"



4 S308 HSS Wall Plate
3" = 1'-0"

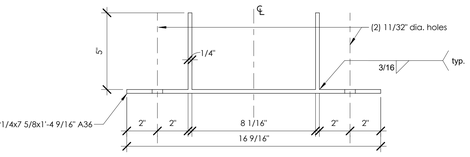


HSS Col.	Dimension A	Dimension B	thikcness
HSS10x10	1'-4"	1'-4"	1"
HSS10x8	0'-11"	1'-4"	1"
HSS8x8	1'-4"	1'-4"	1"
HSS6x6	0'-9"	0'-9"	5/8"
HSS4x4	0'-7"	0'-7"	3/8"

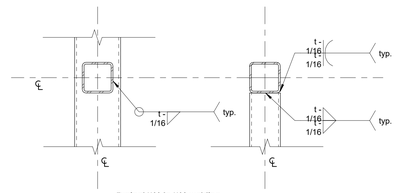
other HSS col. sizes not shown similar

3 S308 HSS Steel Base Plate
3" = 1'-0"

10 S308 Wood Rafter @ HSS
1 1/2" = 1'-0"

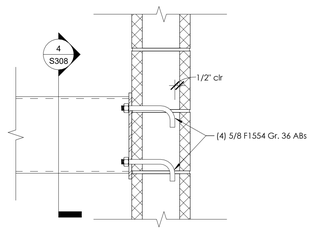


7 S308 CMU Wall Plate
3" = 1'-0"

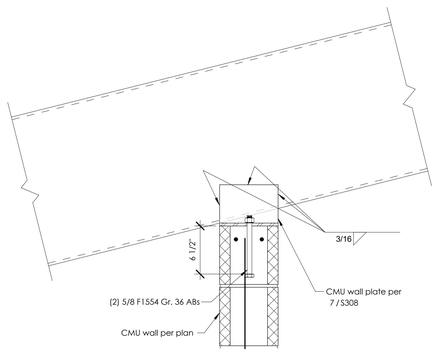


Typical HSS to HSS welding

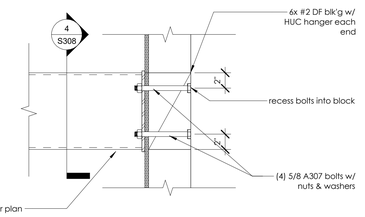
2 S308 HSS to HSS welding
1 1/2" = 1'-0"



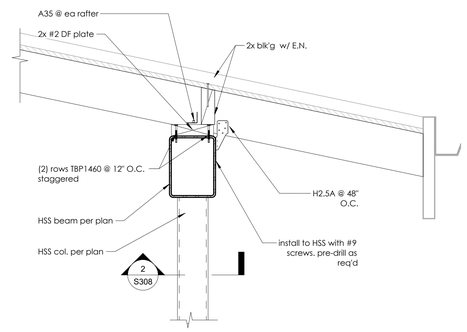
6 S308 HSS to CMU
1 1/2" = 1'-0"



9 S308 HSS @ CMU Wall
1 1/2" = 1'-0"



5 S308 HSS to Wood
1 1/2" = 1'-0"



1 S308 Shed Roof - Eave Condition
1 1/2" = 1'-0"

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6/18/2026

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Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: AR
Checked By: HJT

No.	Description	Date	By

Bid Set
6/23/26

Steel Details

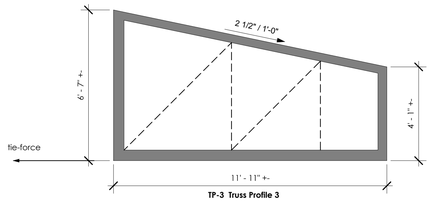
S308

6/17/2026 9:55:27 AM

Truss Tie Forces

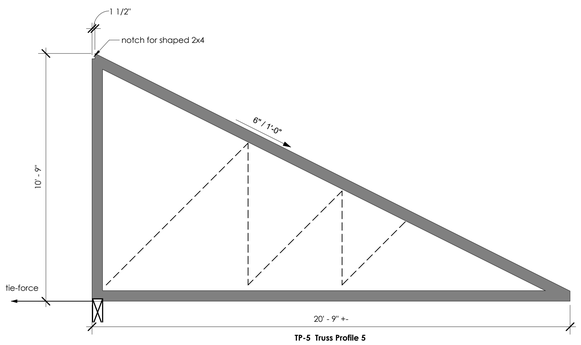
Truss Type	Tie Force *
TP-1	1,885 lbf
TP-2	N/A
TP-3	1,885 lbf
TP-4	N/A
TP-5	438 lbf

*** Tie forces occurs @ CMU walls only**



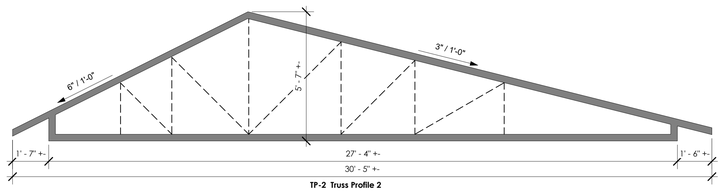
TP-3 Truss Profile 3

3 S309 Truss Profile 3
3/8" = 1'-0"



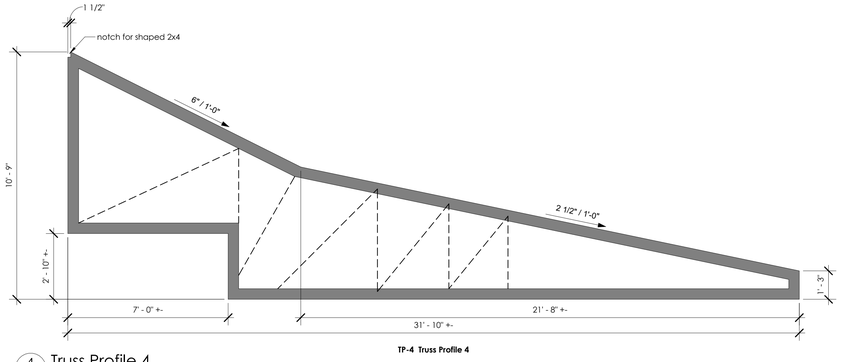
TP-5 Truss Profile 5

5 S309 Truss Profile 5
3/8" = 1'-0"



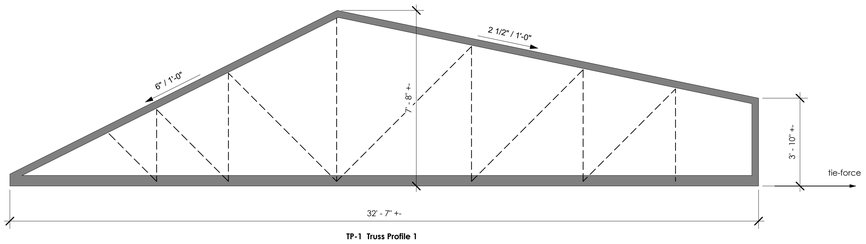
TP-2 Truss Profile 2

2 S309 Truss Profile 2
3/8" = 1'-0"



TP-4 Truss Profile 4

4 S309 Truss Profile 4
3/8" = 1'-0"



TP-1 Truss Profile 1

1 S309 Truss Profile 1
3/8" = 1'-0"

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Truss Profiles

S309

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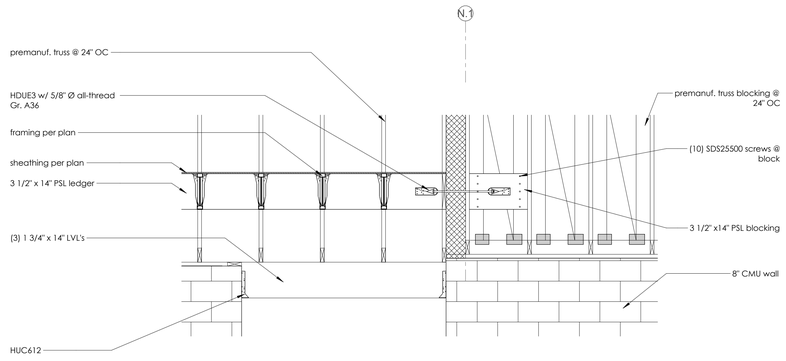
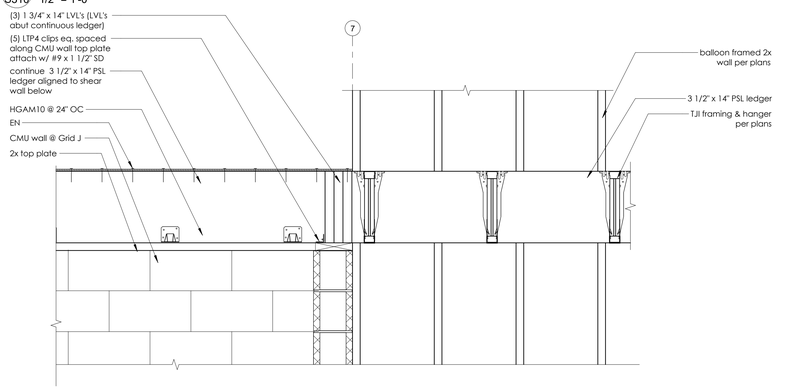
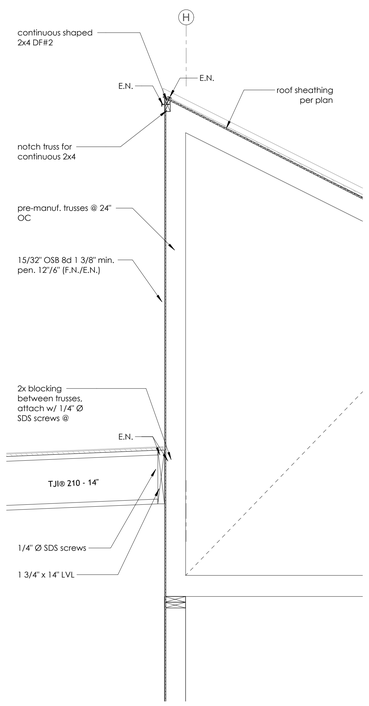


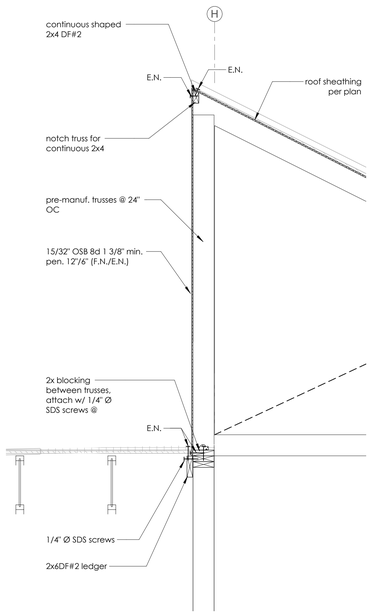
13 S310 Drag Anchor @ Grid 6 & N.1
1/2" = 1'-0"



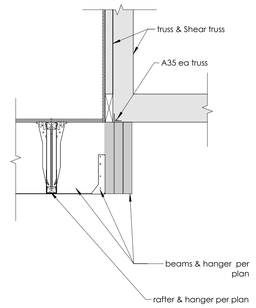
12 S310 Drag Connection @ Grid J & 7
1" = 1'-0"



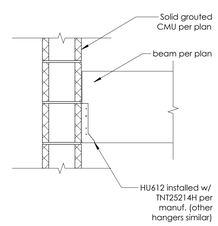
11 S310 Grid H Truss Profile 3 Connection
3/4" = 1'-0"



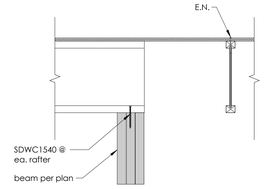
9 S310 Grid H Truss Profile 5 Connection
3/4" = 1'-0"



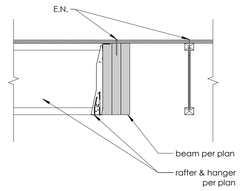
10 S310 Girder Intersection - Flush Framing
1" = 1'-0"



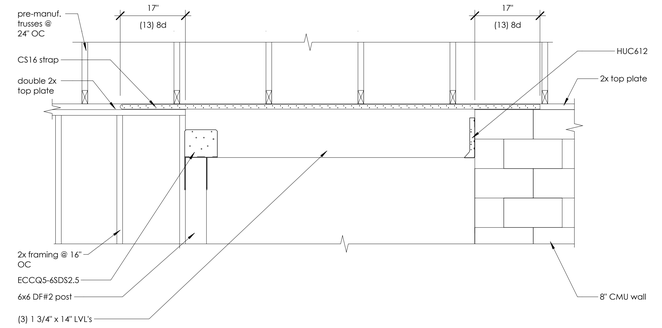
8 S310 Wood Girder @ CMU Wall
1" = 1'-0"



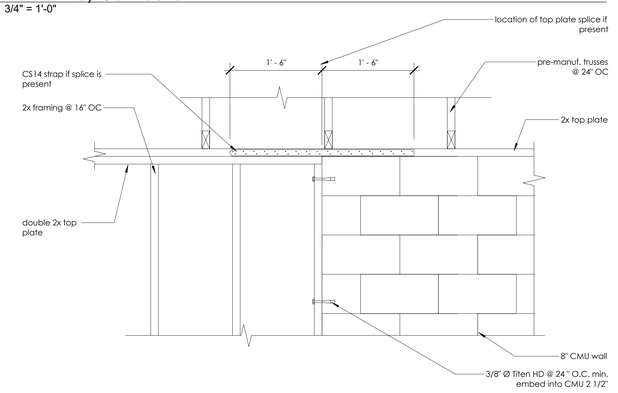
7 S310 Beam @ Rafter Intersection
1" = 1'-0"



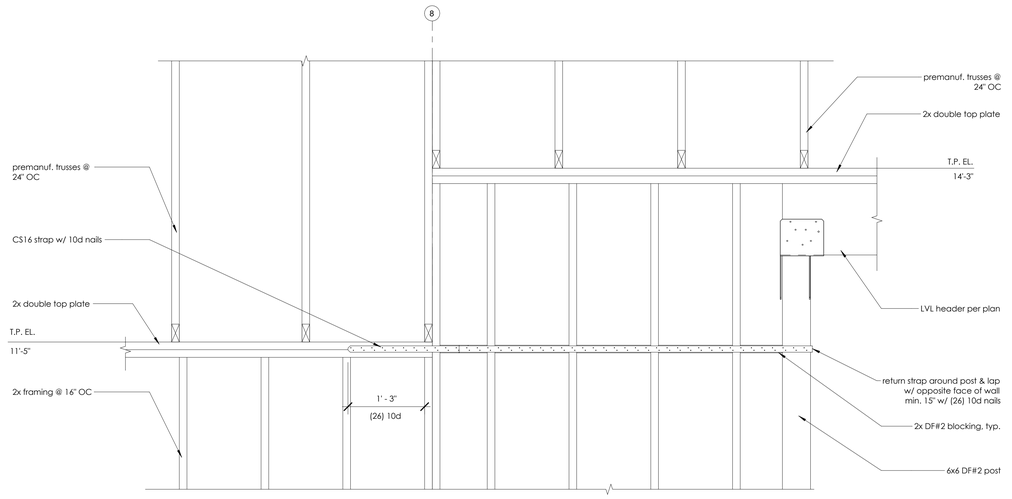
6 S310 Rafter Intersection - Flush Support Beam
1" = 1'-0"



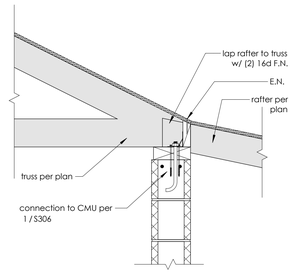
5 S310 LVL Hallway Connection
3/4" = 1'-0"



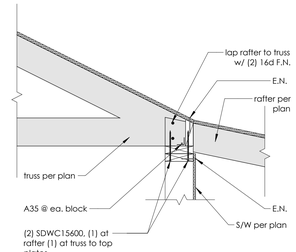
4 S310 Wood to CMU transition Detail
1" = 1'-0"



3 S310 Wall Attachment @ Grid 8 & H Intersection
1" = 1'-0"



2 S310 Truss & Rafter @ Patio - CMU
1" = 1'-0"



1 S310 Truss & Rafter @ Patio
1" = 1'-0"

Architect:
LDA Partners, Inc.
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REGISTERED PROFESSIONAL ENGINEER BRIAN J.M. TALBOT C 79264 CIVIL STATE OF CALIFORNIA
6/18/2026

Client:
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209.941.7200

Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: ORL
Checked By: HJT

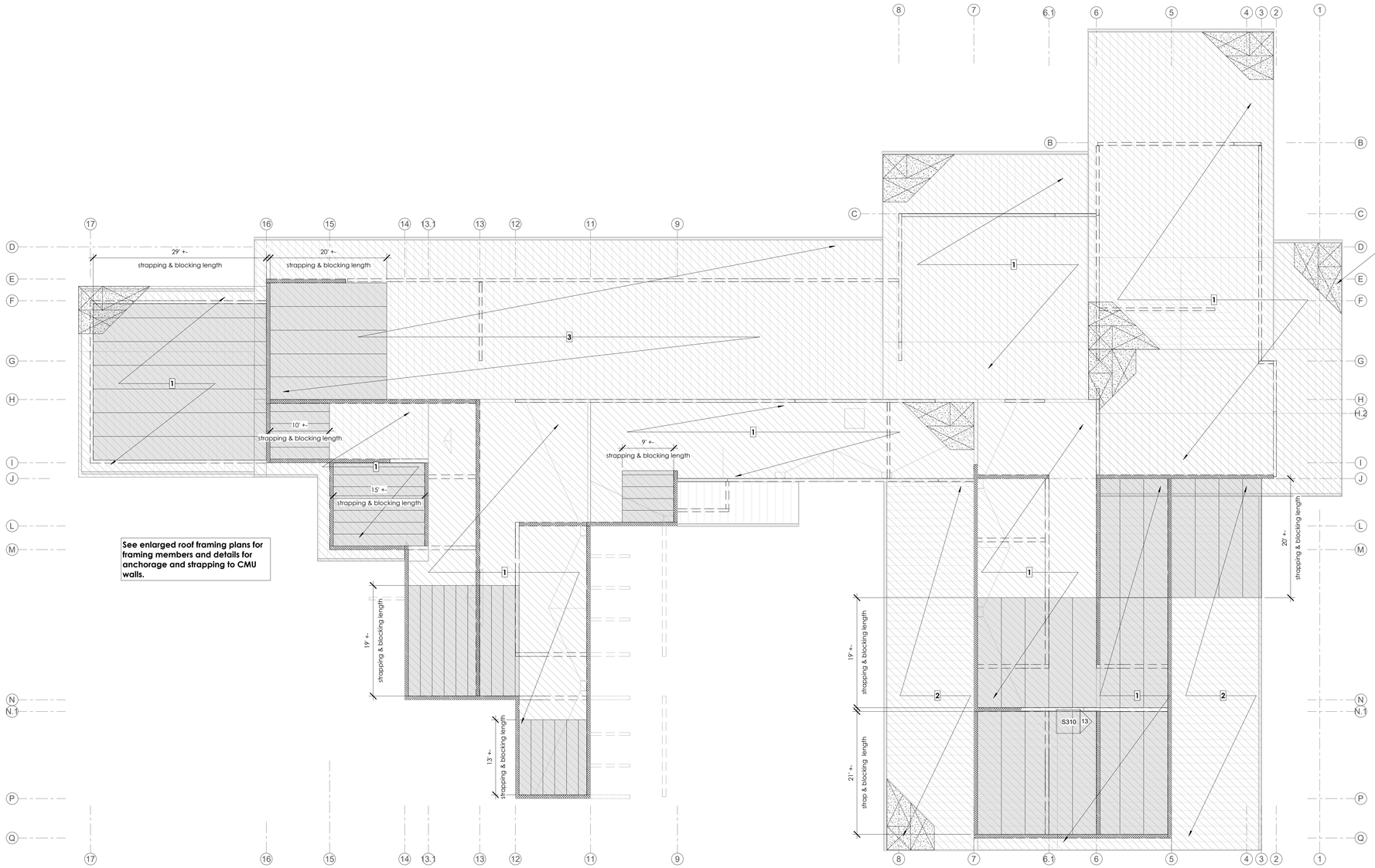
No.	Description	Date	By

Bid Set
6/23/26

Roof Framing Details

S310

8/7/2026 10:59:39 AM



1 S311 Roof Shear Zone Plan
1/8" = 1'-0"

Roof Nailing Schedule

Zone	Nails	Boundary	Cont. edge	Edge	Field	Allowable Shear (ASD)	Remarks
1	8d	6"	6"	6"	12"	270 plf	no blocking req'd
2	8d	6"	6"	6"	12"	270 plf	Provide 2x4 DF#2 flat blocking @ panel edges
3	8d	4"	4"	4"	12"	360 plf	Provide 2x4 DF#2 flat blocking @ panel edges

LDA
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Roof Shear Zone Plan

S311

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Shear Wall Schedule

Type Mark	Panel Thickness	Nail/Screw Type	Min. Pen.	Nail Spacing (Field/Edge)	Shear Capacity ASD	Framing Member at Adjoining Panel Edges	3x Sill Required	Sill Anchorage/Anchor Bolts
A	15/32" OSB	8d	1-3/8"	12"/6"	261 plf	2x	No	5/8" Ø AB (length vaies, see ftg. dets.) @ **4'-0" O.C.** w/ 3"x3"x1/4" square washer.
B	15/32" OSB	8d	1-3/8"	12"/4"	381 plf	2x	No	5/8" Ø AB (length vaies, see ftg. dets.) @ **3'-6" O.C.** w/ 3"x3"x1/4" square washer.
C	15/32" OSB	8d	1-3/8"	12"/3"	489 plf	3x	Yes	5/8" Ø AB (length vaies, see ftg. dets.) @ **3'-6" O.C.** w/ 3"x3"x1/4" square washer.
D	15/32" OSB	8d	1-3/8"	12"/2"	639 plf	3x	Yes	5/8" Ø AB (length vaies, see ftg. dets.) @ **2'-6" O.C.** w/ 3"x3"x1/4" square washer.
E	15/32" OSB both sides	8d	1-3/8"	12"/4"	762 plf	3x	Yes	5/8" Ø AB (length vaies, see ftg. dets.) @ **2'-6" O.C.** w/ 3"x3"x1/4" square washer.
F	15/32" OSB both sides	8d	1-3/8"	12"/3"	978 plf	3x	Yes	5/8" Ø AB (length vaies, see ftg. dets.) @ **1'-6" O.C.** w/ 3"x3"x1/4" square washer.
CMU	see CMU Wall Schedule for reinforcement							

***provide blocking at panel edges for all shear wall types**

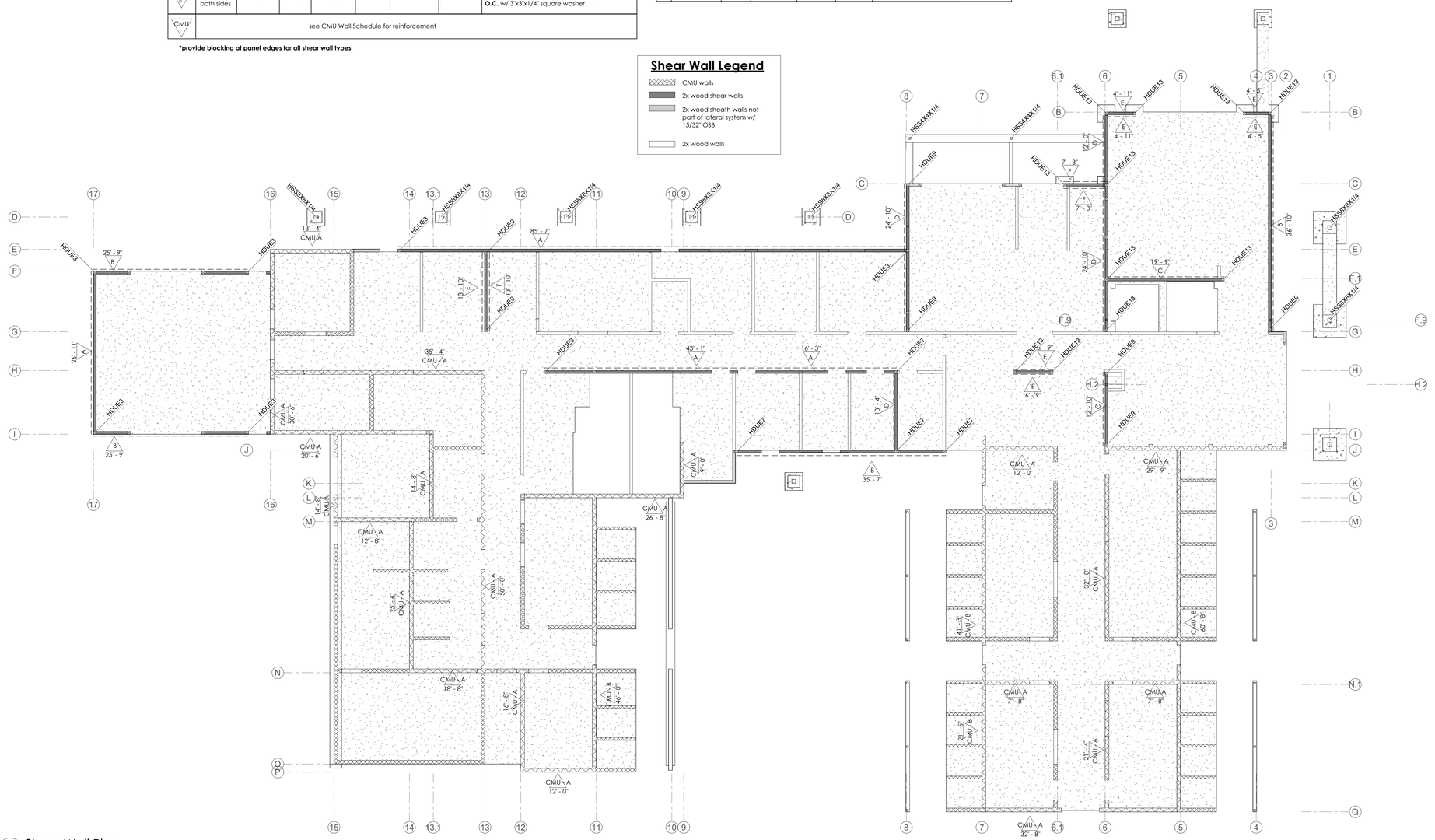
Holdown Schedule

		Post Size ☒	Allowable Tension Load (ASD)	Min. Embed. Depth	"F"	Comments
3	HDUE3-SDS3	4x or 6x	3790 lb	12 5/8"	---------	Wood Fasteners: 7- SDS 1/4" x 3" Anchor Bolt Diameter: 5/8" Ø SSTB16 bolt
5	HDUE5-SDS3	4x or 6x	5375 lb	18"	---------	Wood Fasteners: 10- SDS 1/4" x 3" Anchor Bolt Diameter: 5/8" Ø SB5/8x24 bolt
7	HDUE7-SDS3	4x or 6x	7015 lb	18"	---------	Wood Fasteners: 13- SDS 1/4" x 3" Anchor Bolt Diameter: 5/8" Ø SB5/8x24 bolt
9	HDUE9-SDS3.5	4x or 6x	8425 lb	18"	---------	Wood Fasteners: 16- SDS 1/4" x 3 1/2" Anchor Bolt Diameter: 7/8" Ø SB7/8x24
13	HDUE13-SDS3.5	4x6 or 6x	11,900 lb	10 1/2"	17 1/2" See 11/S105	Wood Fasteners: 23- SDS 1/4" x 3 1/2" Anchor Bolt Diameter: 1" Ø PAB8 bolt

CMU Wall Schedule				
Type	Wall Type	Vert. Bar Spacing	Horiz. Bar Spacing	Boundary Rebar
Bin CMU shear	A	#5 @ 24" OC	#5 @ 24" OC	(2) #5
Bin CMU shear 2	B	#5 @ 24" OC	#5 @ 16" OC	(2) #5

Shear Wall Legend

- CMU walls
- 2x wood shear walls
- 2x wood sheath walls not part of lateral system w/ 15/32" OSB
- 2x wood walls



1 S400 Shear Wall Plan
1/8" = 1'-0"

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Project:
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15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: ORL
Checked By: HJT

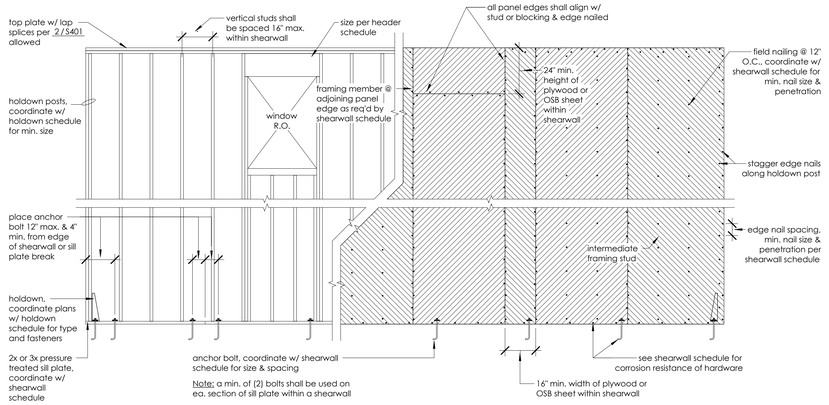
No.	Description	Date	By

Bid Set
6/23/26

Shear Wall Plan

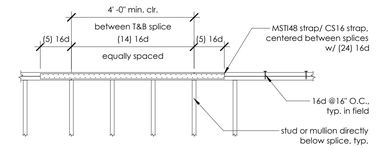
S400

8/7/2026 10:09:49 AM

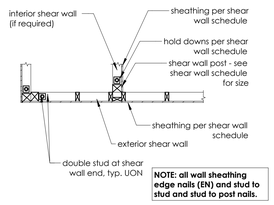


1 S401 General Shear Wall Elevation
3/8" = 1'-0"

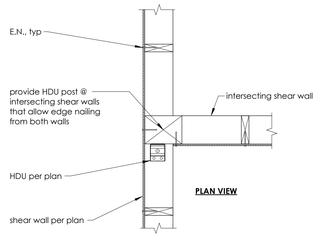
5 S401 Stud/Plate Protection/Repair Requirements
3/16" = 1'-0"



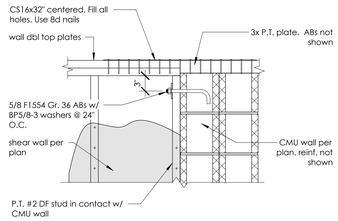
2 S401 Top Plate Splice, Typ. (U.N.O.)
1/2" = 1'-0"



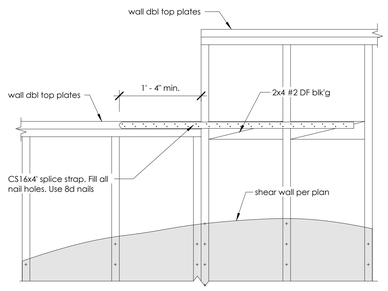
3 S401 Typical Stud Wall Construction
1/2" = 1'-0"



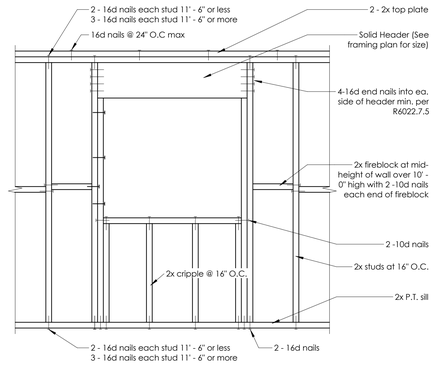
8 S401 Intersecting Shear Wall
1" = 1'-0"



7 S401 Wood Wall to CMU Wall
1" = 1'-0"



6 S401 Step in Wood Shear Wall
1" = 1'-0"



4 S401 Typical Wall Construction
3/4" = 1'-0"

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Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: ORL
Checked By: HJT

No.	Description	Date	By

Bid Set
6/23/26

Miscellaneous Details

S401

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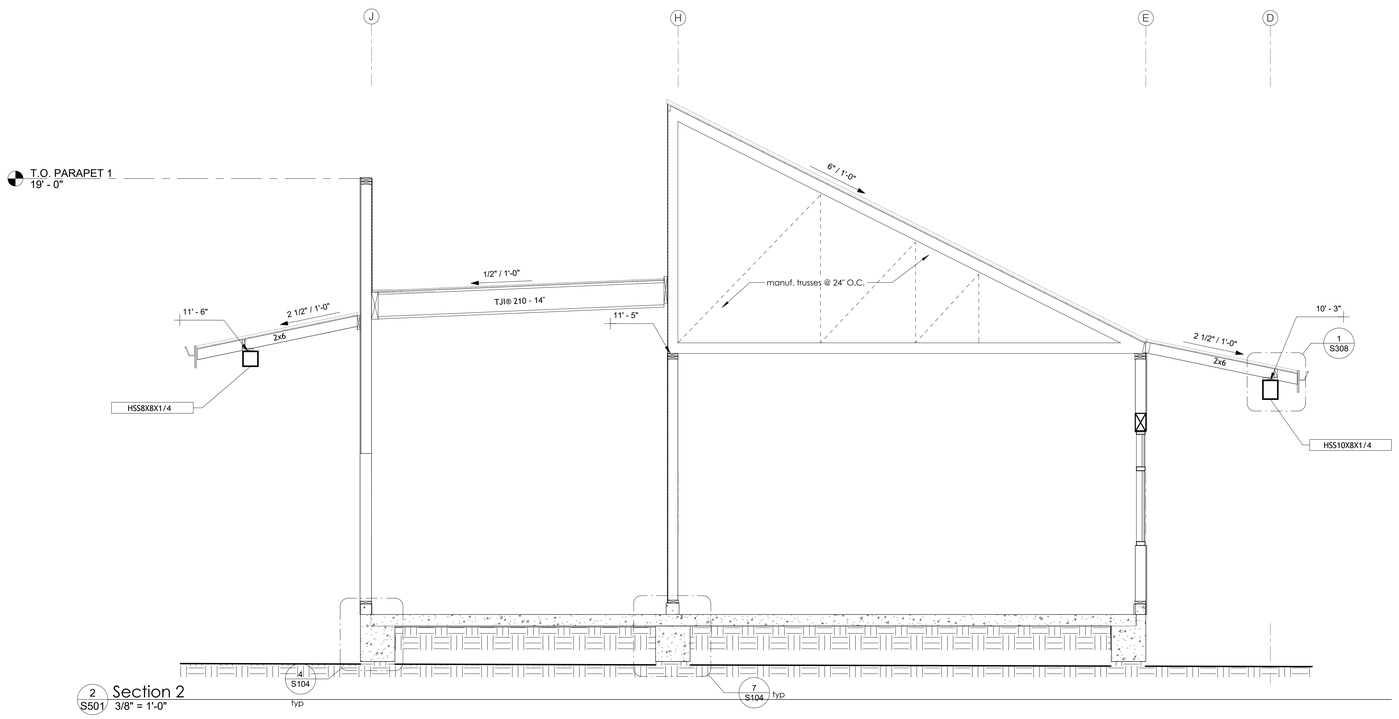
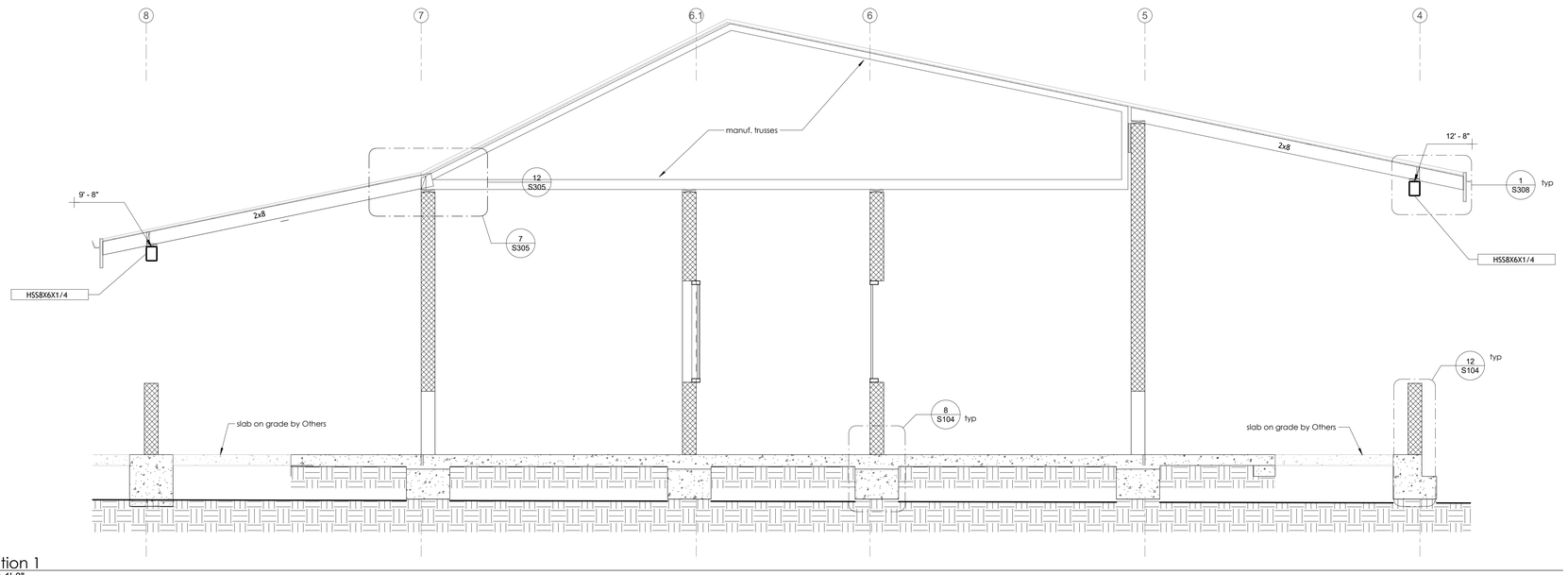


2 S501 Section 2
3/8" = 1'-0"



1 S501 Section 1
3/8" = 1'-0"

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LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: AR
Checked By: HJT

No.	Description	Date	By

Bid Set
6/23/26

Section Cuts

S501

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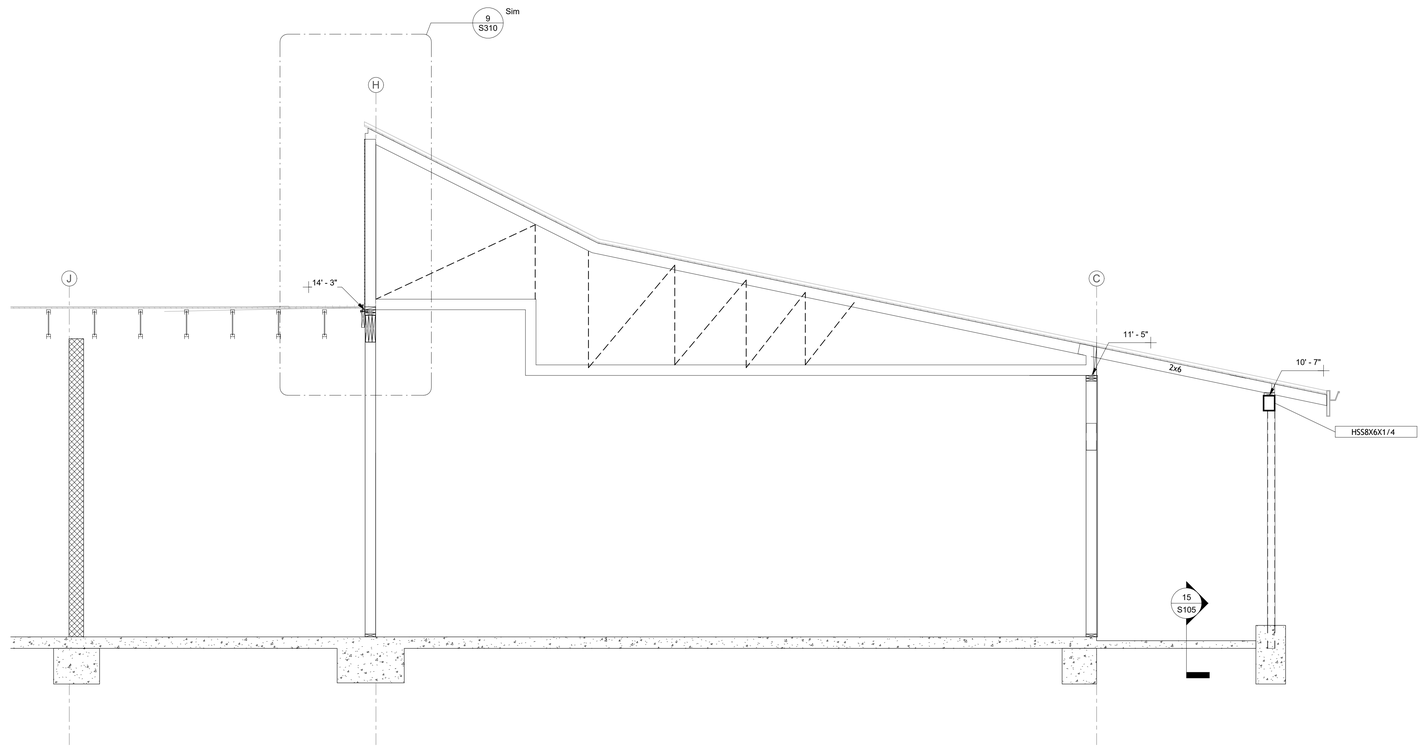
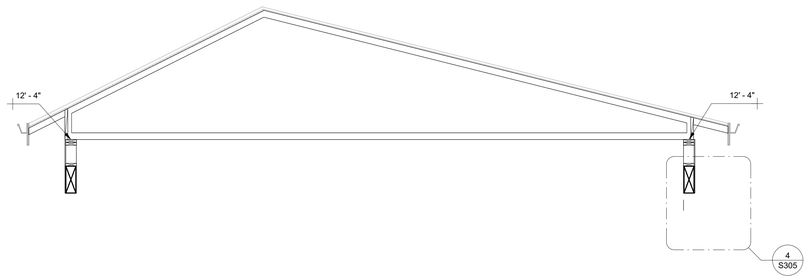
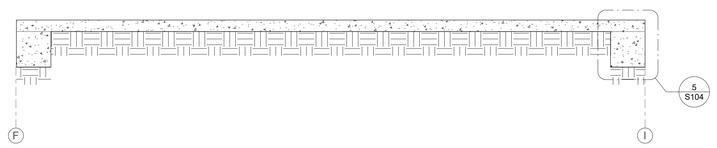


2 S502 Section 4
3/8" = 1'-0"





1 S502 Section 3
3/8" = 1'-0"

Architect:
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Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25-0278
Drawn By: AR
Checked By: HJT

No.	Description	Date	By

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6/23/26

Section Cuts

S502

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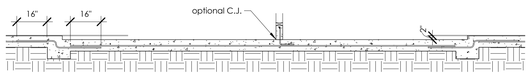
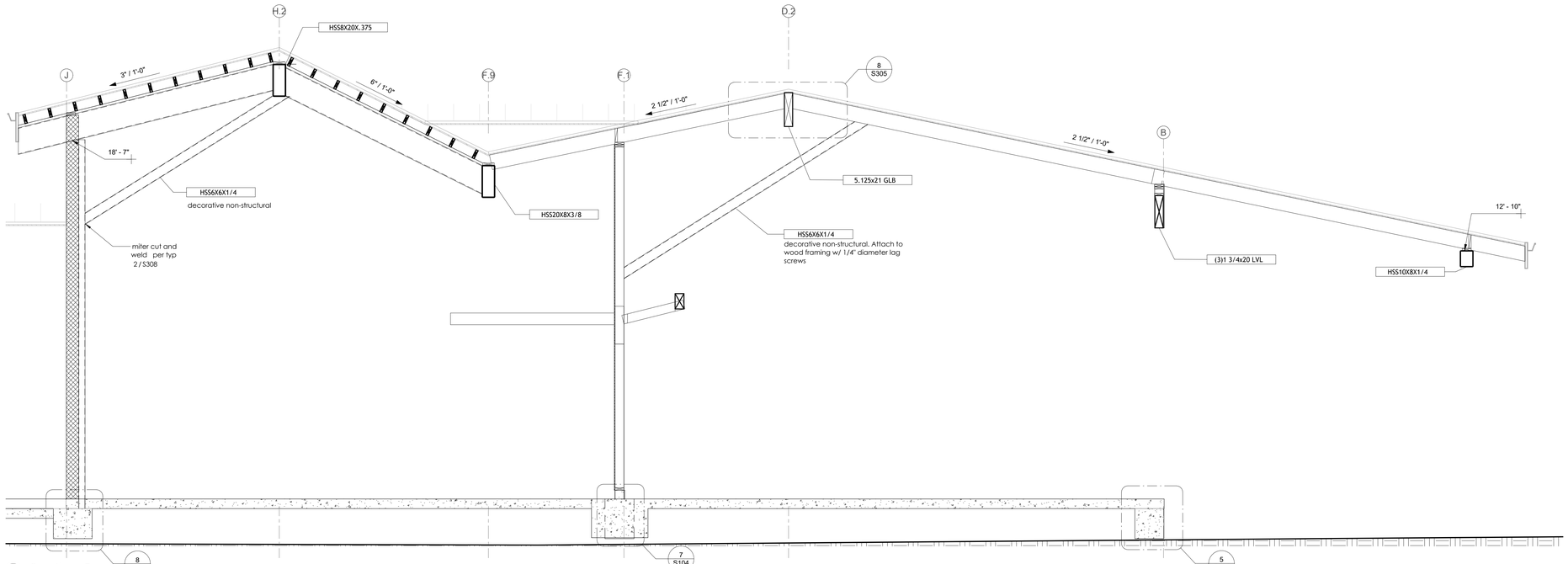


2 S503 Depressed Slab Section
3/8" = 1'-0"



1 S503 Section 5
3/8" = 1'-0"

Architect:
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Bid Set
6/23/26

Section Cuts

S503

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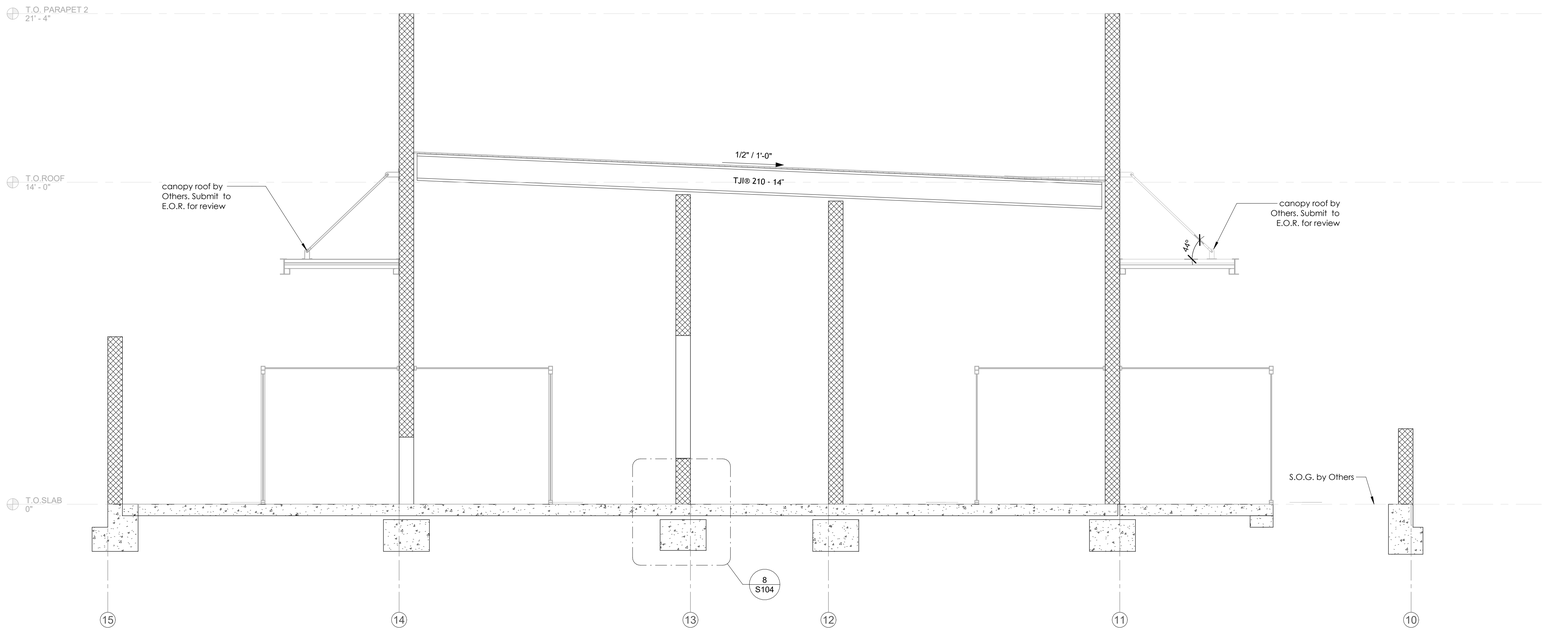
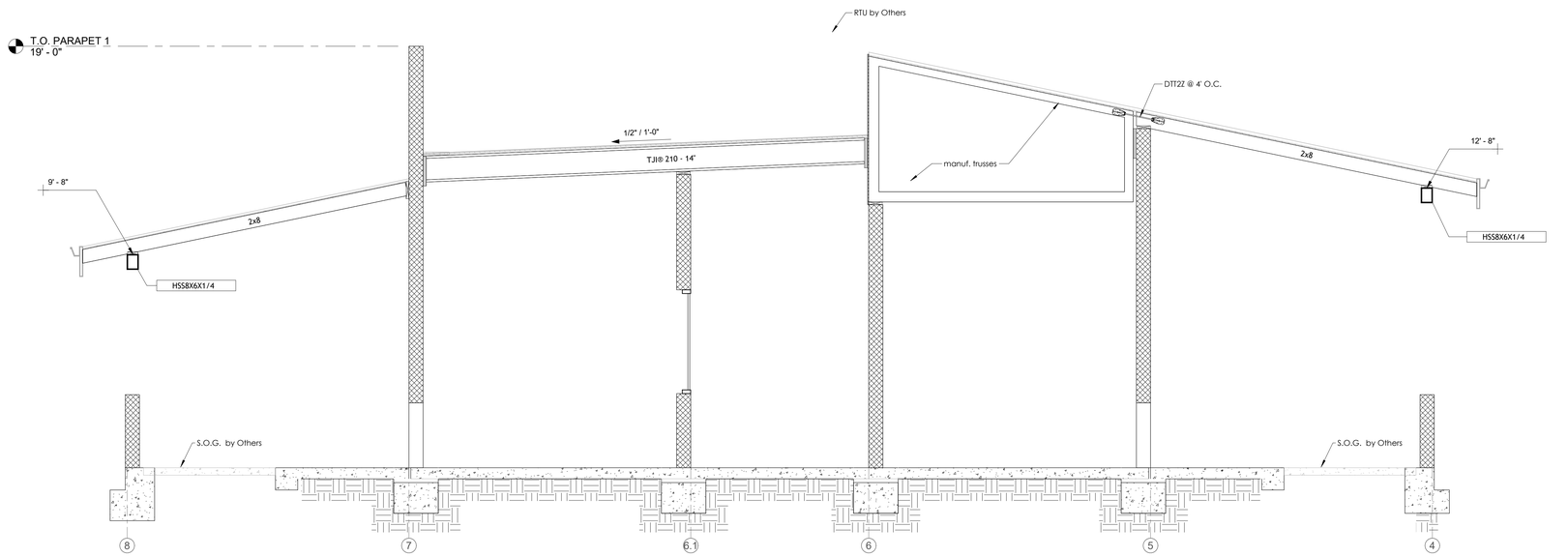


2 S504 Section 7
3/8" = 1'-0"



1 S504 Section 6
3/8" = 1'-0"

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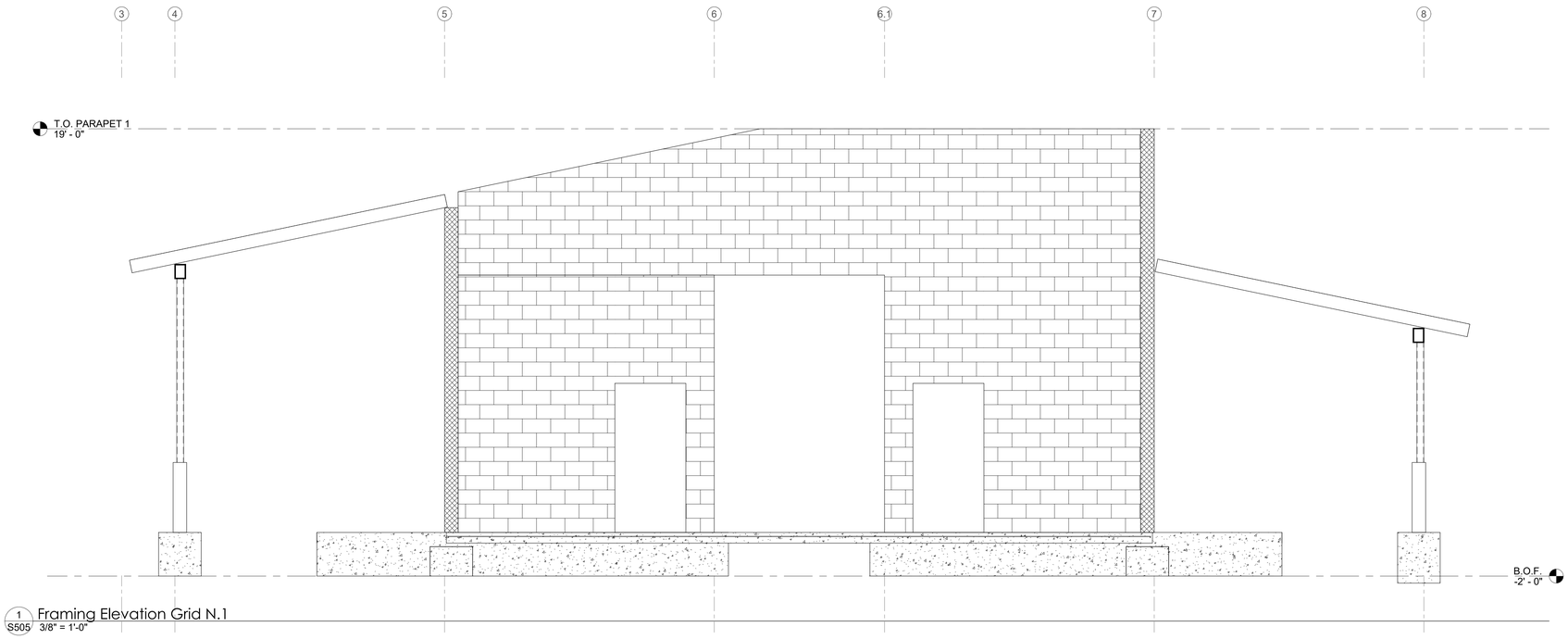
Bid Set
6/23/26

Section Cuts

S504

6/17/2026 10:59:44 AM

2 S505 Framing Elevation - Grid Line 16
3/8" = 1'-0"



1 S505 Framing Elevation Grid N.1
3/8" = 1'-0"

LDA
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Bid Set
6/23/26

Section Cuts

S505

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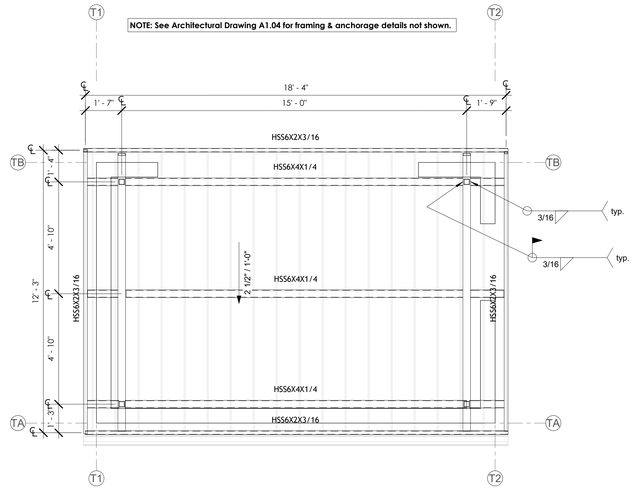
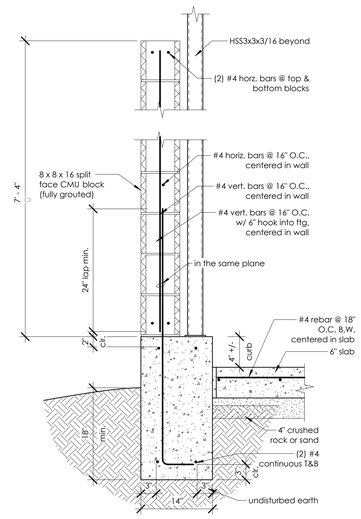
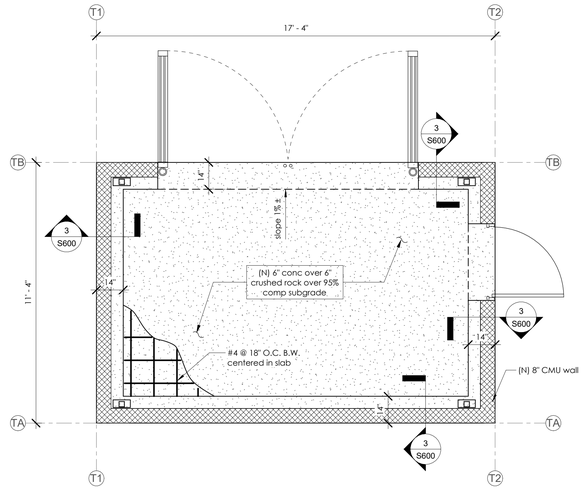


2 S600 Trash Enclosure - Roof Framing
3/8" = 1'-0"



3 S600 Enclosure Footing Detail
1" = 1'-0"



1 S600 Trash Enclosure - Foundation
3/8" = 1'-0"

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Trash Enclosure

S600

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MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2025 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY , GAS OR WATER. 'PERMANENTLY ATTACHED' SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

TABLE OF BRANCH DUCT SIZES TO INDIVIDUAL DIFFUSERS, GRILLES, & REGISTERS (3) (4)

CFM	DUCT SIZE (INCHES) (1)			
	ROUND	SQUARE	RECTANGULAR	MIN. AREA (SQ. IN.) (2)
0-100	6"	6x6	6x6	36
101-210	8"	8x8	8x6	48
211-380	10"	10x10	10x8	80
381-600	12"	12x12	12x10, 16x8	120
601-900	14"	14x14	14x12, 16x10, 20x8	160
901-1300	16"	16x16	16x14, 18x12, 22x10	220
1301-1800	18"	18x18	18x16, 20x14, 22x12	264
1801-2400	20"	20x20	22x16, 24x14, 30x12	340

NOTES:
1. SIZE OF BRANCH DUCT IF SHOWN ON PLANS OR FROM ABOVE TABLE IS NOT THE INLET SIZE TO DIFFUSER, GRILLE OR REGISTER. PROVIDE PLENUM BOX. SEE NOTE (3)
2. MINIMUM DUCT AREA TO BE USED FOR ALTERNATE DUCT SIZES (DIFFERENT THAN THE TABLE) WHEN REQUESTED BY CONTRACTOR FOR SA, RA, AND EA
3. SEE 1M5.00 FOR PLENUM BOX AT DIFF/REG/GRILLE AND FOR DETAIL OF DUCT BRANCH CONNECTION TO OUTLET (AND INLET) PLENUMS AT DIFF/REG/GRILLE
4. ALL DUCT SIZES SHALL BE SHOWN CLEARLY ON THE CONTRACTORS SUBMITTAL DRAWINGS. SHOW SIZE OF EACH DUCT ON THE PLANS AT EACH DUCT LOCATION

MECHANICAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION
(D)	DROP
(E)	EXISTING
(FA), (FB)	FROM ABOVE, FROM BELOW
(N)	NEW
(R)	RISE
(TA), (TB)	TO ABOVE, TO BELOW
AC	AIR CONDITIONING
ACU	AIR CONDITIONING UNIT
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP IN INCHES WATER COLUMN
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ATTEN	ATTENTUATORS
BD, BDD	BALANCE DAMPER, BACKDRAFT DAMPER
BF	BELLOW FLOOR
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BTUH, BTU(H)	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CEF	CEILING EXHAUST FAN
CFF	CAPPED FOR FUTURE
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO2	CARBON DIOXIDE
COL	COLUMN
CONC	CONCRETE
COND	CONDENSER
CONFIG	CONFIGURATION
CONN, CONT	CONNECTION, CONTINUATION
CONTR	CONTRACTOR
COP	COEFFICIENT OF PERFORMANCE
CT	COOLING TOWER
CV	CHECK VALVE
Cv	FLOW COEFICIENT
DB	DRY BULB
DEG	DEGREE
DISCH	DISCHARGE
DL	DOOR LOUVER
DLA, DIAMETER SYMBOL	DIAMETER, DIAMETER OR PHASE
DN	DOWN
dP	DIFFERENTIAL PRESSURE
DPR	DAMPER
DR	DRAIN
DSA	DIVISION OF THE STATE ARCHTIECTS
DTR	DOWN THROUGH ROOF
DWG	DRAWING
EA, EAD	EXHAUST AIR, EXHAUST AIR DAMPER
EAT	ENTERING AIR TEMPERATURE
EC	EVAPORATIVE COOLER
EDB	ENTERING DRY BULB
EEOR	ELECTRICAL ENGINEER OF RECORD
EER	ENERGY EFFICIENCY RATING
EF	EXHAUST FAN
EFF	EFFICIENCY
EH	EXHAUST HOOD

MECHANICAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION
ELEC	ELECTRICAL
ENT	ENTERING
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EVAP	EVAPORATOR
EW, EWB, EWT	ENTERING WATER, ENTERING WET BULB, ENTERING WATER TEMPERATURE
EXH, EXT	EXHAUST, EXPANSION TANK
F	DEGREES FAHRENHEIT
FCV	FLOW CONTROL VALVE
FF, FFE, FLR	FINISHED FLOOR OR FLY FAN, FINISHED FLOOR ELEVATION, FLOOR
FIN	FINISH
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FV	FACE VELOCITY
GA	GAUGE
GAL, GPF, GPH, GPM	GALLONS, GALLONS PER FLUSH, GALLONS PER HOUR, GALLONS PER MINUTE
GALV, GI	GALVANIZED, GALVANIZED IRON
GRD	GRADE
HC	HEATING COIL
HP	HORSEPOWER
HR	HOUR
HT	HEIGHT
HTG, HTR	HEATING, HEATER
HW	HOT WATER
Hz	HERTZ
IN (")	INCH
IPLV	INTEGRATED PART LOAD VALUE
KW, KWH	KILOWATTS, KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LD, LDB	LOUVERED DOOR, LEAVING DRY BULB IN DEGREES FAHRENHEIT
LPA	LOCKED ROTOR AMPS
LVR	LOUVER
LWB, LWT	LEAVING WET BULB IN DEGREES FAHRENHEIT, LEAVING WATER TEMPERATURE
MAT, MAU	MIXED-AIR TEMPERATURE, MAKE-UP AIR UNIT
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	THOUSAND BTUs PER HOUR
MC, MCC	MOTOR CONTROLLER, MOTOR CONTROL CENTER
MCA	MINIMUM CIRCUIT CAPACITY
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MEOR	MECHANICAL ENGINEER OF RECORD
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
NC, NO	NORMALLY CLOSED, NORMALLY OPEN
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NPLV	NON-STANDARD PART LOAD VALUE
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA, OAD	OUTSIDE AIR, OUTSIDE AIR DAMPER
OCC	OCCUPANCY SENSOR
OD	OUTSIDE DIAMETER, OUTSIDE DIMENSIONS
OD	OVERFLOW DRAIN
OFCI, OFOI	OWNER FURNISHED & CONTRACTOR INSTALLED, OWNER FURNISHED & OWNER INSTALLED
OH	OVERHEAD
OV	OUTLET VELOCITY
PD, PG	PRESSURE DROP, PRESSURE GAUGE
PH OR DIAMETER SYMBOL	PHASE
POC	POINT OF CONNECTION
POD	POINT OF DISCONNECTION
PRV	PRESSURE REDUCING VALVE
PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
QTY	QUANTITY
RA, RAD	RETURN AIR, RETURN AIR DAMPER
REF	ROOF EXHAUST FAN
REFRIG	REFRIGERANT
REQD	REQUIRED
RET	RETURN
REV	REVISION
RF	RETURN FAN
RL	REFRIGERANT LIQUID
RLA	RATED LOAD AMPS OR RUNNING LOAD AMPERES
RM	ROOM
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RV	RELIEF VENTILATOR
S & R, SA	SUPPLY AND RETURN, SUPPLY AIR
SB	SECURITY BARS
SCR	STEAM CONDENSATE RETURN
SD	STORM DRAIN, SPLITTER DAMPER, SCHEMATIC DESIGN PHASE
SEER	SEASONAL ENERGY EFFICIENCY RATING
SENS	SENSIBLE
SEOR	STRUCTURAL ENGINEER OF RECORD
SF	SUPPLY FAN
SM	SHEET METAL
SOV	SHUT OFF VALVE
SP, SPD	STATIC PRESSURE, STATIC PRESSURE DROP
SPEC	SPECIFICATION
SQ FT or FT2, SQ IN or IN2	SQUARE FEET, SQUARE INCHES
SS	STAINLESS STEEL
STD	STANDARD
STRUC	STRUCTURAL
T.C.C, TCP, TCV	TEMPERATURE CONTROLS CONTRACTOR, TEMPERATURE CONTROL PANEL, TEMERPATURE CONTROL
TE	THERMAL EFFICIENCY
TEMP	TEMPERATURE
TFH	THERMAL FLUID HEATER
TOC, TOD	TOP OF CONCRETE, TOP OF DUCT
TP, TSP	TRAP PRIMER, TOTAL PRESSURE, TOTAL STATIC PRESSURE,
TYP	TYPICAL
UCD	UNDER CUT DOOR
UL	UNDERWRITERS' LABORATORIES
UON	UNLESS OTHERWISE NOTED
UTR	UP THROUGH ROOF
VD	VOLUME DAMPER
VF	VENTILATION FAN
VFC	VARIABLE FREQUENCEY CONTROLLER
VFD	VARIABLE FREQUENCY DRIVE
VLV, VO	VALVE, VALVED OUTLET
VRF	VARIABLE REFRIGERANT FLOW
VSD	VARIABLE SPEED DRIVE
W	WATTS
W/, W/O	WITH, WITHOUT
WB	WET BULB
WMS	WIRE MESH SCREEN
WP, WPD	WORKING PRESSURE, WATER PRESSURE DROP IN FEET OF WATER COLUMN
WT	WEIGHT

MECHANICAL SYMBOLS

SYMBOL	SYMBOL DESCRIPTION
	3 WAY MODULATING CONTROL VALVE
	3 WAY TWO POSITION CONTROL VALVE
	3 WAY VALVE
	AUTOMATIC AIR VENT
	AUTOMATIC FLOW CONTROL
	BALANCING VALVE
	BOTTOM CONNECTION
	BUTTERFLY VALVE
BPT	BYPASS TIMER
	CALIBRATED BALANCE VALVE
	CHECK VALVE
	CIRCUIT SETTER VALVE
DS	DYNAMIC SENSOR
	EXPANSION JOINT
F	FIRE DAMPER
FS	FIRE/SMOKE DAMPER
	FLEXIBLE CONNECTOR
	FLOAT & THERMOSTATIC TRAP
	FLOW LIMITING VALVE
FS	FLOW SWITCH
	GAGE COCK
	GATE VALVE
	GLOBE VALVE
H X	HUMIDISTAT
	INVERTED BUCKET TRAP
	LIMIT OF DEMOLITION
	MANUAL AIR VENT
	MODULATING CONTROL VALVE
	PIPE BREAK
	PIPE CAP
	PIPE DOWN
	PIPE GUIDE
	PIPE UP
	POINT OF CONNECTION
	PRESSURE REGULATING VALVE
	PRESSURE RELIEF VALVE
	REDUCER
SD	SMOKE DAMPER
SD	SMOKE DETECTOR
	SOLENOID VALVE
	STRAINER
TS X	TEMPERATURE SENSOR
	TEST PLUG
	THERMOMETER
T X	THERMOSTAT
	TWO POSITION CONTROL VALVE
	UNION
	VALVE IN RISE/DROP
	VALVE IN VALVE BOX

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS, AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. COORDINATE EXACT SIZE AND ROUTING OF DUCTWORK WITH ARCHITECTURAL PLANS, STRUCTURE, AND EQUIPMENT PRIOR TO COMMENCING WORK.
5. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES.
6. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE DIFFUSER, GRILLE, OR REGISTER.
7. FLEXIBLE DUCTWORK CONNECTIONS TO CEILING DIFFUSERS ARE LIMITED TO 5' MAXIMUM LENGTH.
8. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING, ETC. ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING, ETC. IS SHOWN LIGHT. SEE LEGEND.
9. (E) DUCTWORK AND ITEMS TO BE REMOVED ARE SHOWN CROSSED ("X") OUT, SEE LEGEND. COORDINATE CLOSELY WITH (N) DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN.
10. WHERE INLET DUCT DIAMETER AND DIFFUSER NECK SIZE ARE THE SAME (I.E. 9"ø AND 9x9) CONTRACTOR SHALL OVERSIZE THE SHEET METAL PLENUM TO ACCOMMODATE THE ROUND DUCT CONNECTION.
11. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT +46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

DUCT LEGEND

SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
24x12	24x12	RECTANGULAR DUCT: WIDTH x DEPTH (PLAN VIEW) DEPTH x WIDTH (SECTION VIEW)
26x14L	26x14L	ACOUSTICALLY LINED RECTANGULAR DUCT - DIMENSIONS ARE OUTSIDE
		MANUAL AIR DAMPER
R or D	R or D	RISE OR DROP DUCT IN DIRECTION OF AIR FLOW
	OR	RECTANGULAR TO RECTANGULAR TRANSISTION OR ROUND TO ROUND TRANSITION, MAX. SLOPE OF 1:3
		RECTANGULAR TO ROUND TRANSITION, MAX. SLOPE OF 1:3
	W, R, R/W = 1.5	ELBOW, RECTANGULAR, SMOOTH RADIUS, WITHOUT TURNING VANES
		SQUARE/RECTANGULAR DUCT ELBOW WITH TURNING VANES
		CONVERGING OR DIVERGING TEE, 45° ENTRY, RECTANGULAR MAIN AND BRANCH. WHEN REDUCING MAIN, SIDE OF TAKE OFF OR ENTRY BRANCH TO BE FLAT, OTHER SIDES MAX. SLOPE OF 1:3
	ROUND DUCT	ROUND DUCT TAKE OFF FROM RECTANGULAR VIA SMOOTH CONVERGING BELL MOUTH
		RECTANGULAR DUCT TEE MAD'S ON THE 2 BRANCHES, THROAT SIZED FOR EQUAL PRESSURE DROP
		RECTANGULAR DUCT SPLIT MAD'S, THROAT SIZED FOR EQUAL PRESSURE DROP
		3-WAY RECTANGULAR SPLIT WITH TWO TRANSITIONAL ELBOWS AND TRANSITIONING MAIN. DOWNSTREAM MAD'S OF THE TREE BRANCHES. THROATS SIZED FOR EQUAL PRESSURE DROP.
		FOR CONCEALED DUCT: DROP TO DIFFUSER SHALL BE FULL SIZE OF DIFFUSER NECK. fOR EXPOSED DUCT: DROP SHALL BE FULL SIZE OF OD DIFFUSER FRAME. FLANGE FOR MOUNTING DIFFUSER TURNED IN. AIR EXTRACTOR AND EQUALIZER GRID AT CONNECTION TO MAIN.
		SUPPLY AIR, SUPPLY DROP/RISE
		RETURN AIR, RETURN AIR DROP/RISE
		EXHAUST AIR, EXHAUST AIR DROP/RISE
		NEW - FLEXIBLE DUCT (ROUND)
	OR	EXISTING - FLEXIBLE DUCT (ROUND)
	10"Ø, 18"Ø, 12"Ø	45° REDUCING LATERAL FITTING

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DATE SIGNED: 6/18/2026

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RANCHO CORDOVA, CALIFORNIA

JH - AL/KD — PM - DESIGN TEAM
220663.99 — PROJECT NO.

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA 95330

Key Plan:

Project No.: ###-#-##
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/26

MECHANICAL LEGENDS & NOTES

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HEAT PUMP SCHEDULE

UNIT	SERVES	"AAON" MODEL NO.	NOM. TONS.	CFM	MIN. OSA (CFM)		ESP (IN WG)	DX COOLING		HEAT PUMP HEATING CAPACITY (MBH)	ENERGY RECOVERY WHEEL		ELECTRICAL DATA																EFFICIENCY					OPER. WT. (LBS)			MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
					UPPER	LOWER		SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)		SUMMER CAPACITY (MBH)	WINTER CAPACITY (MBH)	VOLT/ PH	SUPPLY FAN			COMP.		COND. FAN		AUX. STRIP HEAT	EXHAUST FAN			MCA	MOP	FLA	COOLING			HEATING			PHP UNIT	ROOF CURB	TOTAL			
														HP	BHP	FAN FLA	QTY.	RLA	QTY.	FLA	KW @ 208/3	FLA	HP	BHP	FLA				SEER2	EER (EER2)	IEER	HSPF2	COP (COP2)						
PHP-1	DOG ADOPTION	RNA-009-B	9	2900	2900	N/A	1.00	83.3	83.3	67.5	71.7	152.3	208 V/3	5	2.59	15.2	2	16.7	2	2.8	22.5	62.5	2	1.49	7.5	145	150	125	--	12.74	16.56	--	3.5	2270	500	2,420	6 / M5.00	1 / M6.01	1, 2, 4, 7, 8, 10
PHP-2	EUTH, FOOD STORAGE	RNA-009-B	9	2055	2055	N/A	1.00	72.1	79.0	63.7	56.4	120.7	208 V/3	3	1.49	10.6	2	16.7	2	2.8	15.0	41.6	2	0.83	7.5	114	125	100	--	12.74	16.56	--	3.5	2270	500	2,420	6 / M5.00	1 / M6.01	1, 2, 4, 7, 8, 10
PHP-3	LOCKERS, LAUNDRY	RQA-003-A	3	1075	1075	N/A	1.00	34.2	34.2	25.6	19.0	40.0	208 V/3	2	0.99	7.5	1	12.8	1	2.8	7.5	20.8	1	0.41	4.6	57	60	49	13.4	(12.25)	--	6.85	(3.75)	1300	350	1,400	6 / M5.00	1 / M6.01	1, 2, 7, 8, 9, 10
PHP-4	OFFICE,STAFF AREAS	RQA-004-A	4	1325	315	N/A	1.50	41.0	41.0	30.1	N/A	N/A	208 V/3	2	1.02	7.5	1	16.7	2	2.8	7.5	20.8	1	0.32	7.0	67	70	58	14.5	(12.0)	--	7.0	(3.65)	840	150	990	6 / M5.00	2 / M6.01	1, 2, 5, 6, 8, 9, 11
PHP-5	LOBBY/ADMIN	RQA-005-A	5	1625	345	200	1.50	48.0	49.4	37.5	N/A	N/A	208 V/3	2	1.37	7.5	1	17.9	2	2.8	7.5	20.8	1	0.40	7.0	69	80	59	13.6	(11.0)	--	7.35	(3.46)	930	150	1,080	6 / M5.00	2 / M6.01	1, 2, 3, 5, 6, 11
PHP-6	DOG ADOPTION	RNA-009-B	9	2500	2500	N/A	1.00	81.3	81.8	67.3	64.7	138.1	208 V/3	3	2.00	10.6	2	16.7	2	2.8	22.5	62.5	2	1.20	7.5	140	150	120	--	12.74	16.56	--	3.5	2270	500	2,420	6 / M5.00	1 / M6.01	1, 2, 4, 7, 8, 10
PHP-7	CAT ADOPTION	RNA-006-A	6	1600	1600	N/A	1.00	54.1	57.9	43.7	42.8	91.4	208 V/3	2	1.25	7.5	1	23.7	2	2.8	7.5	20.8	2	0.56	7.5	77	90	66	--	12.74	14.50	--	3.78	1535	450	1,670	6 / M5.00	1 / M6.01	1, 2, 4, 7, 10
PHP-8	MULTI-PURPOSE	RQA-004-A	4	1325	380	125	1.50	41.5	41.5	30.1	N/A	N/A	208 V/3	2	1.01	7.5	1	16.7	2	2.8	7.5	20.8	1	0.32	7.0	67	70	58	14.5	(12.0)	--	7.0	(3.65)	840	150	990	6 / M5.00	2 / M6.01	1, 2, 3, 5, 6, 11
PHP-9	DOG ADOPTION	RNA-009-B	9	2250	2250	N/A	1.00	75.9	80.4	66.2	60.0	128.2	208 V/3	3	1.68	10.6	2	16.7	2	2.8	22.5	62.5	2	0.97	7.5	140	150	120	--	12.74	16.56	--	3.5	2270	500	2,420	6 / M5.00	1 / M6.01	1, 2, 4, 7, 8, 10

NOTES:
1. UNITS SELECTED AT 98 F DB / 71 F WB SUMMER AMBIENT, 24 F DB WINTER AMBIENT AIR TEMPERATURES. COOLING CAPACITIES SCHEDULED ARE NET SENSIBLE & NEW TOTAL CAPACITIES
2. PROVIDE UNIT WITH R-454B REFRIGERANT (SAFETY GROUP A2L, HIGH-PROBABILITY SYSTEM), FACTORY INTEGRAL REFRIGERANT LEAK DETECTION SENSOR & CONTROLS, LOUVERED CONDENSER COIL GUARDS, HINGED ACCESS DOORS, PHASE MONITOR/PROTECTION, THRU-THE-BOTTOM WIRING CONNECTION, KIT, AND 2" THICK MERV 13 DISPOSABLE PLEATED MEDIA FILTERS(S). THE ESP SCHEDULED ABOVE INCLUDES AIR PRESSURE DRIP THRU FILTER(S).
3. LOWER OUTSIDE AIR POSITION INDICATED IS BASED ON 0.15 CFM/SQ.FT., ALLOWABLE FOR CO2 DEMAND CONTROL VENTILATION SYSTEMS AT MINIMUM OCCUPANCY, UPPER OUTSIDE AIR POSITION INDICATED IS BASED ON 15 CFM. OCCUPANT WHEN SPACE IS AT MAXIMUM OCCUPANCY, UNLESS SYSTEM IS IN ECONOMIZER MODE. SEE CONTROLS FOR SEQUENCE OF OPERATION. FOR THESE UNITS WITH DEMAND CONTROL VENTILATION, ENTERING TEMPERATURES SCHEDULED REPRESENT CONDITIONS AT UPPER OSA POSITION.
4. FOR UNITS WITH NOM. COOLING CAPACITY OF 6 TONS AND LARGER, PROVIDE UNIT WITH FACTORY INSTALLED VFD ON SUPPLY FAN AND MINIMUM 2-STAGES OF MECHANICAL COOLING CAPACITY (SINGLE-ZONE VAV). SEE SCHEDULE FOR LOW SUPPLY AIRFLOW CFM (66%).
5. PROVIDE STRUCTURALLY CALC'D 14" TALL STANDARD ROOF CURB.
6. PROVIDE UNIT WITH FACTORY 100% MODULATING POWER EXHAUST ECONOMIZER WITH VFD, DIFFERENTIAL PRESSURE TRANSDUCER, ROOM PRESSURE TUBING, AND DAMPER ACTUATORS. PROVIDE UNIT WITH FACTORY DIGITAL SCROLL OR INVERTER DRIVEN COMPRESSOR(S). NOTE THAT THE FACTORY MODULATING POWER EXHAUST ECONOMIZER SHALL BE FACTORY WIRED TO RECEIVE ITS POWER FROM THE HP UNIT, A SEPARATE POWER CONNECTION TO THE MODULATING POWER EXHAUST ECONOMIZER IS NOT REQUIRED. SCHEDULED HP UNIT MCA & MOCP INCLUDE MODULATING POWER EXHAUST ECONOMIZER LOAD.
7. PROVIDE WITH MANUFACTURER'S ENERGY RECOVERY WHEEL. OPERATE UNIT AT CONSTANT VOLUME TO PROVIDE REQUIRED AIR CHANGE RATES AT ANIMAL AREAS.
8. INSTALL DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT FOR AUTOMATIC SHUTDOWN OF HVAC SYSTEM UPON SENSING SMOKE. PROVIDED, POWERED & INTERLOCKED WITH FIRE ALARM BY DIV. 26/28, INSTALLED & CONNECTED TO PHP UNIT BY DIV. 23.
9. AUTOMATIC SHUTDOWN IS REQUIRED FOR THIS PHP UNIT BECAUSE MULTIPLE PHP UNITS ARE SERVING A COMMON SPACE, AND THE SUM OF THE MULTIPLE PHP UNITS' SUPPLY AIRFLOW IS IN EXCESS OF 2000 CFM, AND THE DIRECT EXIT EXCEPTION DOES NOT APPLY.
10. PROVIDE STRUCTURALLY CALC'D 29" TALL ROOF CURB WITH FILTER BANK IN RETURN/EXHAUST OPENING. PROVIDE UNIT WITH 4" MERV 8 FILTERS WITHIN CURB BEFORE AIR ENTERS HEAT RECOVERY WHEEL.
11. UNIT SHALL BE PROVIDED WITH FACTORY INSTALLED EBTRON OUTSIDE AIRFLOW MEASURING STATION.

SPLIT SYSTEM INDOOR UNIT SCHEDULE (COOLING ONLY)

EQUIPMENT TAG	MFR	MODEL NO	LOCATION	NOMINAL TONS	AIR FLOW (CFM)	ELECTRICAL			MOUNTING DETAIL	OPER WT (LBS)
						VOLT	PHASE	FAN WATTS		
SAC-1	MITSUBISHI	PKA-AK24NL	ELECT 154	2	775	208	1	69	8 / M5.00	50

NOTES:
1. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
2. PROVIDE WITH R-454B REFRIGERANT (SAFETY GROUP A2L). PROVIDE NAMEPLATE WITH SYMBOL INDICATING FLAMMABLE REFRIGERANT IN ACCORDANCE WITH CMC 1104.6.2.1.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1 PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT. PROVIDE SEPARATE 120V TO INDOOR UNIT FOR CONDENSATE PUMP.
5. PROVIDE WITH MANUFACTURER'S HARD WIRED WALL MOUNTED PROGRAMMABLE THERMOSTAT.
6. EMS SYSTEM SHALL MONITOR SPACE TEMPERATURE.
7. PROVIDE WITH "REFCO" GOBI II CONDENSATE PUMP, 6 GPM @ 20 FT./HD, 12 WATTS, 120V, 1 PH., 60 HZ., ALARM RELAY, 10 AMPS, 1.3 LBS. SECURE PUMP BACK PLATE TO BLOCKING IN WALL WITH (3) - 3/16" DIA. TEK SCREWS AND PLACE PUMP ON THE MOUNTING POSTS.

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE (COOLING ONLY)

EQUIPMENT TAG	MFR	MODEL NO	LOCATION	AREA SERVED	COOLING CAPACITY (MBH)		REFRIGERANT LINE SIZE		ELECTRICAL DATA					SEER2	EER2	MOUNTING DETAIL	CONTROL DIAGRAM	OPER WT (LBS)	REMARKS
					SENSIBLE	TOTAL	RL (IN)	RS (IN)	VOLT	PHASE	MCA	MOP	FAN (W)						
SCU-1	MITSUBISHI	PUY-AH24NL	ROOF	ELECT. 154	17.3	24	3/8	5/8	208	1	22	37	74	21.1	12	4 / M5.00	3 / M6.00	160	1, 2, 3, 4, 5, 6, 7

FAN SCHEDULE

EQUIPMENT TAG	MFR	MODEL NO	LOCATION	AREA SERVED	CFM	ESP (IN WG)	DUTY	STYLE	RPM	VOLT	PHASE	HP	BHP	MCA	MOP	MOUNTING DETAIL	CONTROL DIAGRAM	OPER WT (LBS)	REMARKS
EF-1	GREENHECK	CUE-100-VG	ROOF	ELECT. 154	700	0.300	EXHAUST	UPBLAST	1079	115	1	1/4	0.07	4	15	3 / M5.00	3 / M6.01	70	1, 2, 3
EF-2	GREENHECK	CUE-060-VG	ROOF	R.R. 105	100	0.150	EXHAUST	UPBLAST	1205	115	1	1/15	0.01	2	15	3 / M5.00	3 / M6.01	45	1, 2, 3
EF-3	GREENHECK	CUE-060-VG	ROOF	R.R. 104	100	0.150	EXHAUST	UPBLAST	1205	115	1	1/15	0.01	2	15	3 / M5.00	3 / M6.01	45	1, 2, 3

NOTES:
1. PROVIDE WITH THERMAL OVERLOAD PROTECTED MOTOR AND SPEED CONTROLLER.
2. PROVIDE WITH FACTORY BACKDRAFT DAMPER.
3. PROVIDE WITH FACTORY BIRDSCREEN AND 14" TALL ROOF CURB.

BUILDING AIR BALANCE TABLE

EQUIP. TAG	SUPPLY CFM	OA CFM	RETURN CFM	EXHAUST CFM	BUILDING NET
PHP-1	2,900	2,900	0	2,900	0
PHP-2	2,055	2,055	0	2,080	-25
PHP-3	1,075	1,075	0	1,075	0
PHP-4	1,325	315 (NOTE 3)	1,325	0	0
PHP-5	1,625	345 (NOTE 3)	1,425	0	+200 (NOTE 2)
PHP-6	2,500	2,500	0	2,500	0
PHP-7	1,600	1,600	0	1,600	0
PHP-8	1,325	380 (NOTE 3)	1,325	0	0
PHP-9	2,250	2,250	0	2,250	0
EF-1	0	0	0	700	-700 (NOTE 1)
EF-2	0	0	0	100	-100 (NOTE 2)
EF-3	0	0	0	100	-100 (NOTE 2)
BUILDING NET	16,655	13,420	4,075	13,305	**-725** (NOTE 1)

NOTES:
1. INTAKE LOUVER PROVIDED FOR MAKE-UP AIR TO EF-1 SERVING ELECTRICAL ROOM.
2. POSITIVE 200 CFM FROM PHP-5 BALANCES NEGATIVE PRESSURIZATION FROM EF-2 & EF-3.
3. PHP UNITS WHICH ARE NOT SUPPLIED WITH 100% OUTSIDE AIR ARE EQUIPPED WITH POWER EXHAUST ECONOMIZERS. RETURN AIR WILL BE RELIEVED AT THE UNIT TO MAINTAIN BUILDING PRESSURE REGARDLESS OF OUTSIDE AIR INTAKE.

AIR TERMINALS SCHEDULE

SYMBOL	DESCRIPTION	TITUS	TUTTLE & BAILEY	METALAIRE	KRUEGER	NAILOR	PRICE	SHOEMAKER
CD	MODULAR CORE SURFACE MOUNT CEILING DIFFUSER FLAT FRAME	MCD - BORDER TYPE 1	SQD-SB	9000-1	1240 FRAME 22	7500-B	SMCD	MA
CDL	MODULAR CORE LAY-IN CEILING DIFFUSER FOR T-BAR CEILING 24X24 PANEL	MCD - BORDER TYPE 3	SQD-LT	9000-6P	1240 FRAME 23	7500-L	SMCD	700MA
CE	CEILING EXHAUST WITH 1/2" EGG CRATE CORE SURFACE MOUNT	MODEL 50F BORDER TYPE 1	CRE500-SF	CCSS-1	EGC-5 FRAME S22	61 EC-S	80SR	600
CEL	CEILING EXHAUST WITH 1/2" EGG CRATE CORE IN 24X24 PANEL FOR T-BAR CEILING	MODEL 50 F BORDER TYPE 3	CRE500-LT	CCSS-6	EGC-5 FRAME S22	61 EC-L	80SR	600T
CR	CEILING RETURN WITH 1/2" EGG CRATE CORE SURFACE MOUNT	MODEL 50 F BORDER TYPE 1	CRE500-SF	CCSS-1	EGC-5 FRAME S22	61 EC-S	80SR	600
CRL	CEILING RETURN WITH 1/2" EGG CRATE CORE IN 24X24 PANEL FOR T-BAR CEILING	MODEL 50 F BORDER TYPE 3	CRE500-LT	CCSS-6	EGC-5 FRAME S22	61 EC-L	80SR	600T
LD-1	ALUMINUM LINEAR SLOT DIFFUSER, SIDEWALL APPLICATION. TWO SLOTS, 1.5" WIDTH, "TITUS" JET-THROW PATTERN CONTROLLER, PROVIDE CONTINUOUS LENGTH AS INDICATED ON PLANS. PROVIDE LINED SHEET METAL SUPPLY PLENUM FOR ACTIVE SECTIONS AS INDICATED ON PLANS.	FL-15	6000	LSD	1900	5000	SDS	LSD
R	RETURN GRILLE WITH 35° OR 45° HORIZONTAL BARS	350 RL	T 70D-SF	SRH-1	S 80 H	7145 H	80	

NOTES:
1. ALL SUPPLY DIFFUSERS ARE 4 WAY BLOW UNLESS SHOWN OTHERWISE.
2. FURNISH ALL PRODUCTS OF A SINGLE MANUFACTURER.
3. COORDINATE DIFFUSER TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
4. OPPOSED BLADE DAMPERS ARE NOT REQUIRED AT DIFFUSERS, REGISTERS, OR GRILLES.
5. PROVIDE MANUAL AIR DAMPERS AT EACH BRANCH DUCT TO A SINGLE DIFFUSER, REGISTER, OR GRILLE.
6. PROVIDE ALUMINUM REGISTERS FOR SHOWERS AND DAMP AREAS, INCLUDING ALL ANIMAL AREAS.

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DATE SIGNED: 6/18/2026

capital engineering
RANCHO CORDOVA, CALIFORNIA

JH - AL/KD — PM - DESIGN TEAM
220663.99 — PROJECT NO.

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA 95330

Key Plan:

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MECHANICAL SCHEDULES

M0.02

6/1/2026 9:49:18 AM

1 M1.00 MECHANICAL ZONING PLAN

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

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MECHANICAL ZONING PLAN

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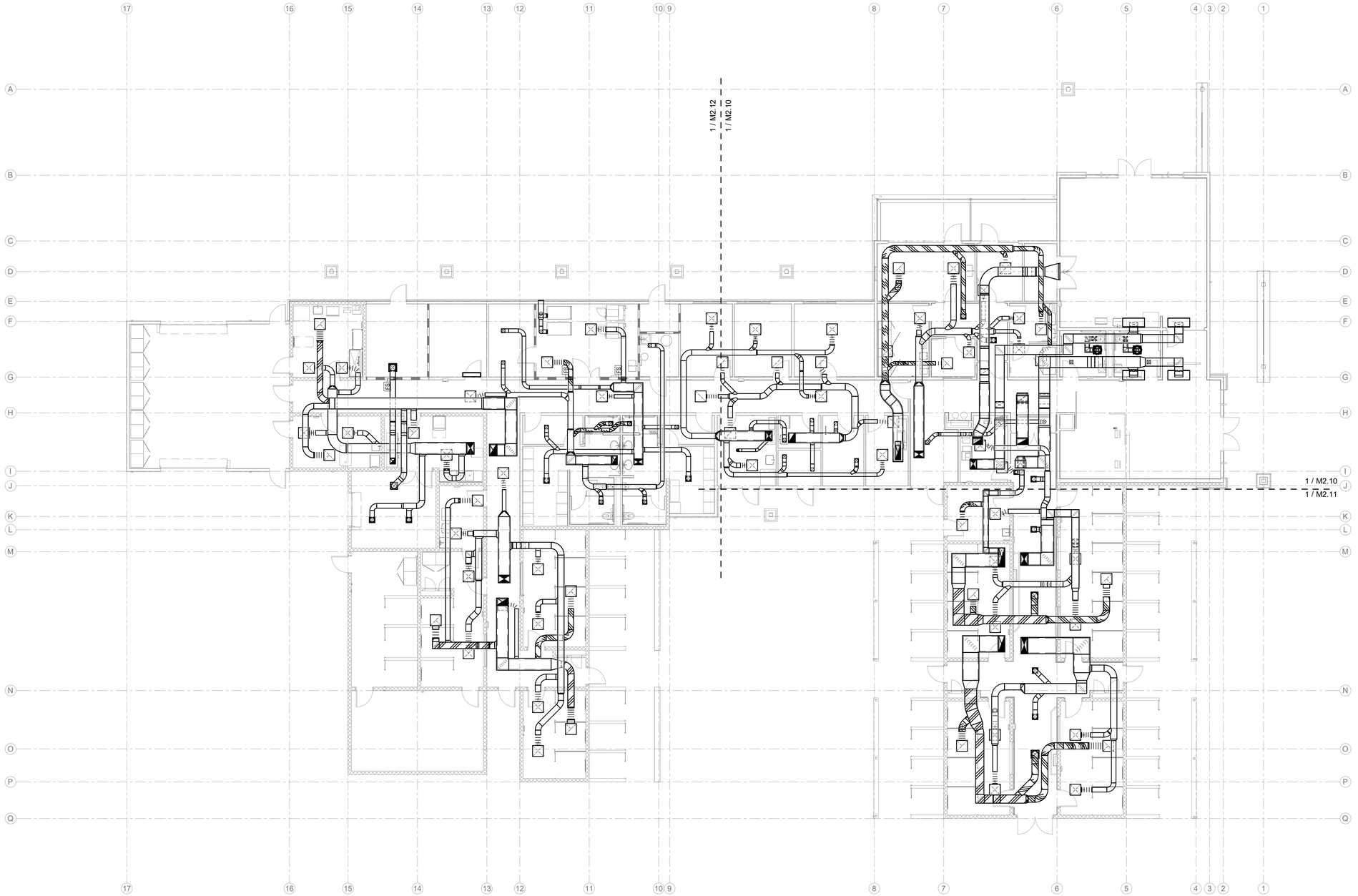

1 M2.00 OVERALL MECHANICAL FLOOR PLAN

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

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STATE OF CALIFORNIA

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OVERALL MECHANICAL FLOOR PLAN

M2.00

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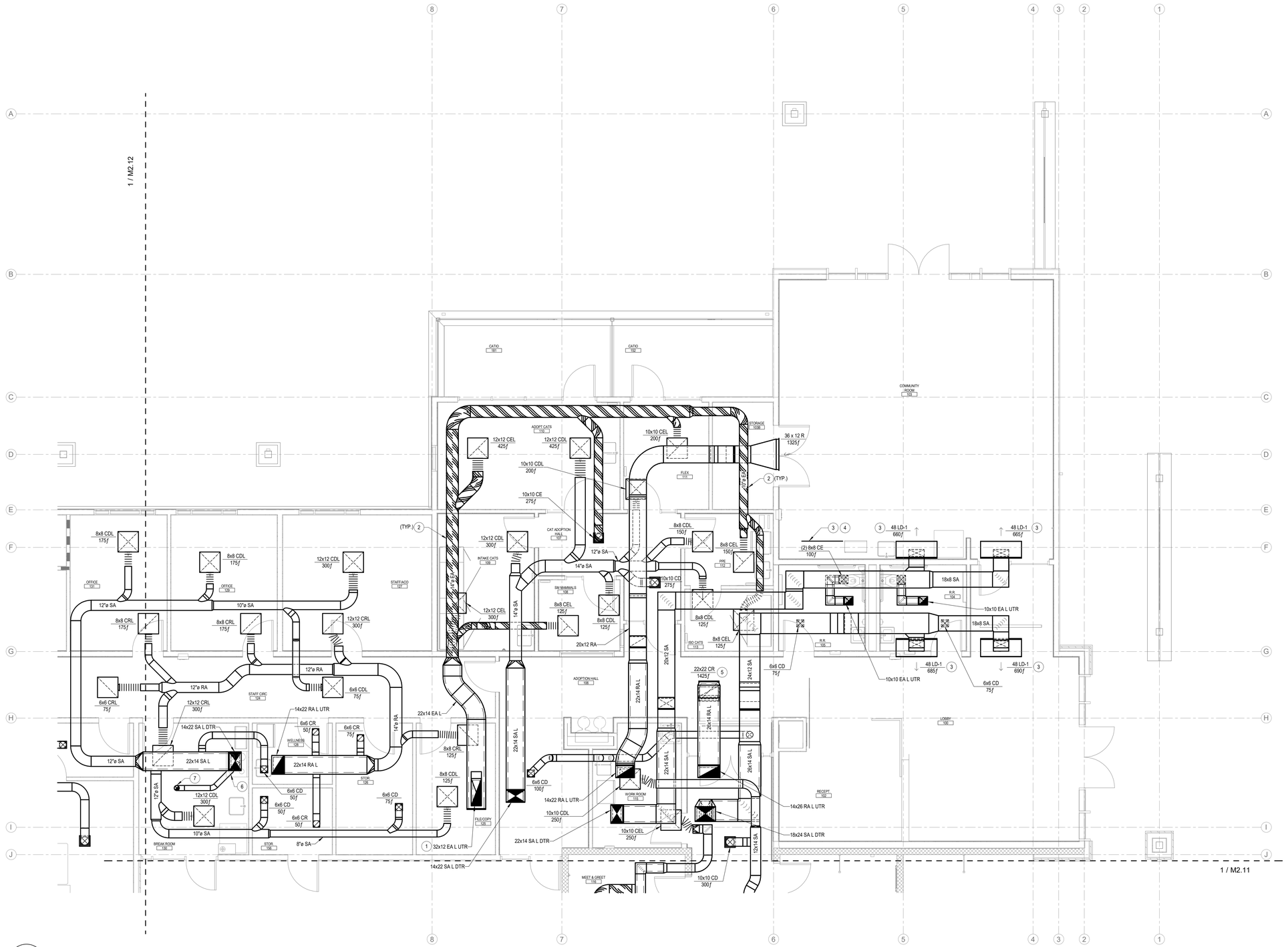

1 M2.10 MECHANICAL FLOOR PLAN - AREA A

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

SHEET NOTES:

1. FOR TYPICAL DIFFUSER/REGISTER/GRILLE MOUNTING, REFER TO DETAIL 1/M5.00.
2. FOR TYPICAL CONCEALED DUCT SUPPORT MOUNTING, REFER TO DETAIL 3/M5.01.

KEYNOTES:

1. EXHAUST AIR UTR TO HEAT RECOVERY WHEEL IN 100% OUTSIDE AIR PACKAGE HEAT PUMP UNIT.
2. EXHAUST DUCT BRANCH(ES) SERVING SHOWER OR ANIMAL AREAS ARE MARKED WITH A HATCH AND SHALL BE OF ALUMINUM CONSTRUCTION, WITHOUT INTERNAL DUCT LINING.
3. SEE ARCHITECTURAL PLANS FOR ELEVATION AND EXACT LOCATION OF LINEAR SLOT DIFFUSER. DIFFUSER TO BE CENTERED BETWEEN EXPOSED BEAMS.
4. PROVIDE NON-ACTIVE 4'-0" SECTION OF LINEAR SLOT DIFFUSER. PROVIDE WITH SHEET METAL BLANK-OFF.
5. MOUNT RETURN REGISTER AT SLOPE ALIGNED WITH CEILING.
6. GE 'JVW5301SJSS' EXHAUST HOOD, 120V, 2.5 AMPS, 65 LBS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. PROVIDE WITH MANUFACTURER'S CEILING DUCT COVER KIT FOR CEILINGS UP TO 10'-0" AND GREASE FILTERS. INSTALL 6"ø EXHAUST DUCT AT HOOD CONNECTION.
7. DISCHARGE 6"ø EXHAUST DUCT UP THRU ROOF.

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MECHANICAL FLOOR PLAN - AREA A

M2.10

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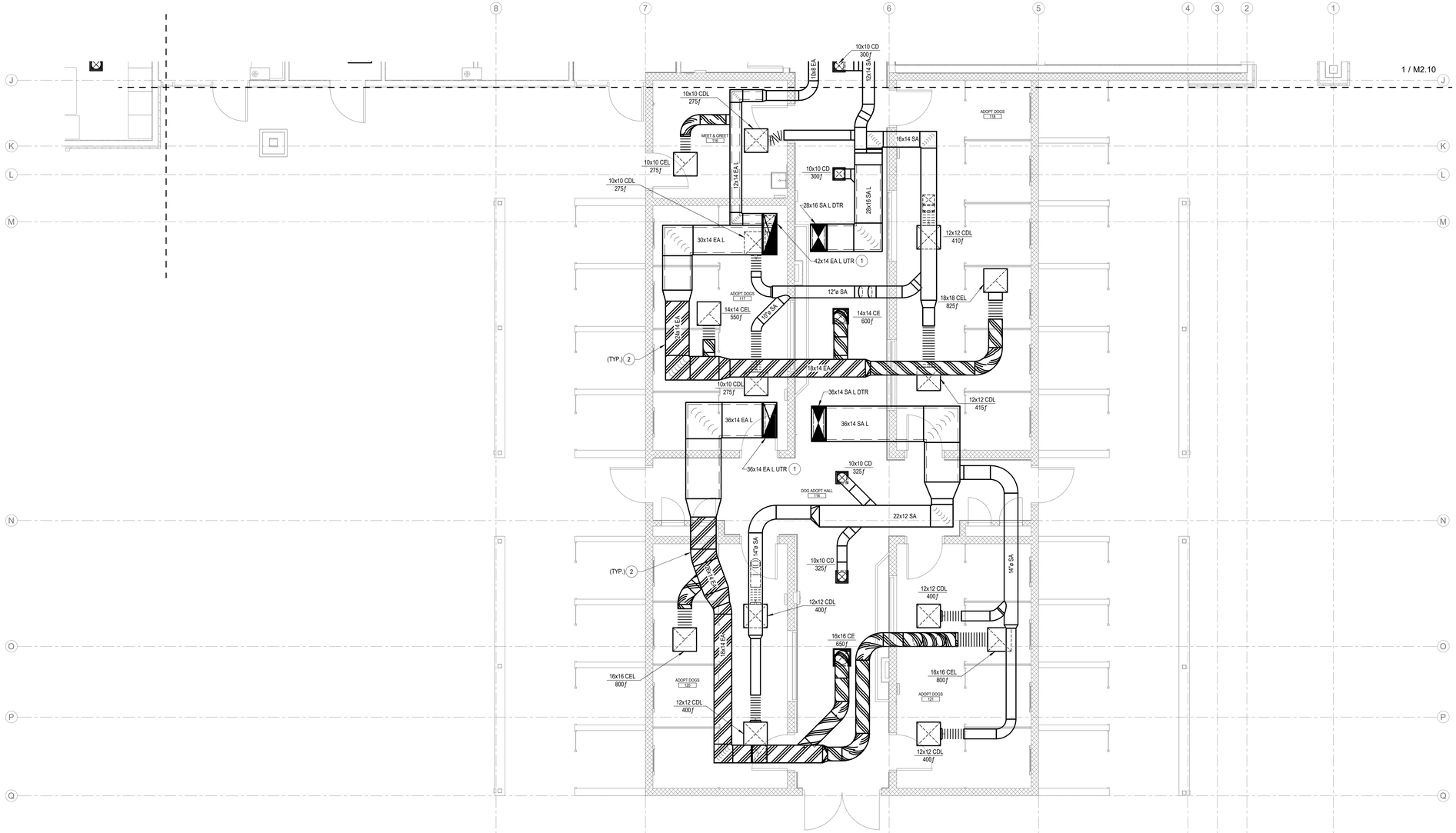

1 / M2.11 MECHANICAL FLOOR PLAN - AREA B

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

SHEET NOTES:

1. FOR TYPICAL DIFFUSER/REGISTER/GRILLE MOUNTING, REFER TO DETAIL 1/M5.00.
2. FOR TYPICAL CONCEALED DUCT SUPPORT MOUNTING, REFER TO DETAIL 3/M5.01.

KEYNOTES:

1. EXHAUST AIR UTR TO HEAT RECOVERY WHEEL IN 100% OUTSIDE AIR PACKAGE HEAT PUMP UNIT.
2. EXHAUST DUCT BRANCH(ES) SERVING SHOWER OR ANIMAL AREAS ARE MARKED WITH A HATCH AND SHALL BE OF ALUMINUM CONSTRUCTION, WITHOUT INTERNAL DUCT LINING.

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MECHANICAL FLOOR PLAN - AREA B

M2.11

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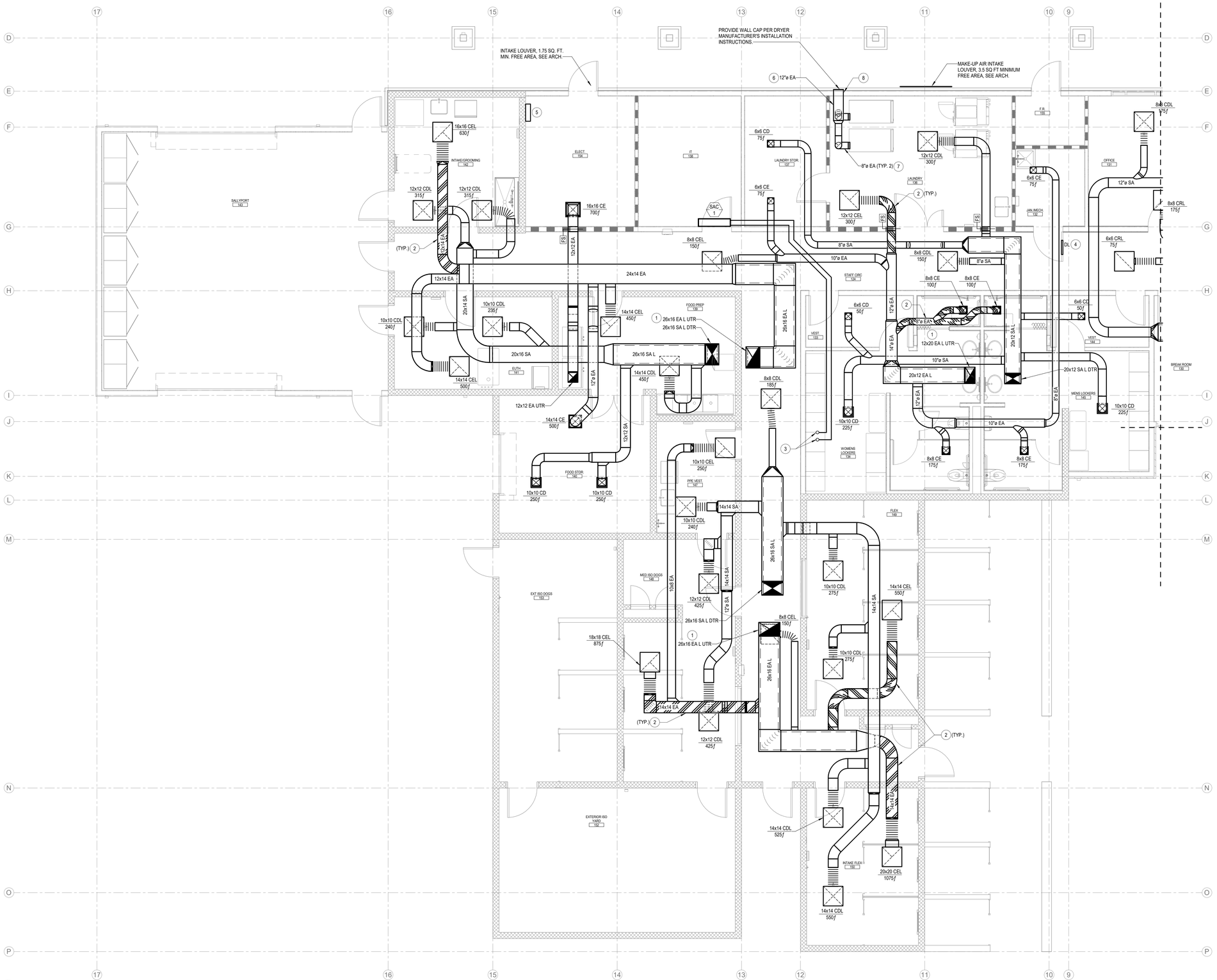
DRYER MAKE-UP AIR CALCULATION:

42 KW/ DRYER x 2 DRYERS = 84 KW

84 KW x 3412.14 BTUH/KW = 286,620 BTUH

1 SQ IN / 1000BTUH x 286,620 BTUH = 286.62 SQ IN

286.62 SQ IN x 1 SQ FT/144 SQ IN = **2.0 SQ FT MIN FREE AREA**



1 M2.12 MECHANICAL FLOOR PLAN - AREA C

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

SHEET NOTES:

1. FOR TYPICAL DIFFUSER/REGISTER/GRILLE MOUNTING, REFER TO DETAIL 1/M5.00.
2. FOR TYPICAL CONCEALED DUCT SUPPORT MOUNTING, REFER TO DETAIL 3/M5.01.
3. FOR TYPICAL COMBINATION FIRE SMOKE DAMPER INSTALLATION, REFER TO DETAIL 2/M5.01.

KEYNOTES:

1. EXHAUST AIR UTR TO HEAT RECOVERY WHEEL IN 100% OUTSIDE AIR PACKAGE HEAT PUMP UNIT.
2. EXHAUST DUCT BRANCH(ES) SERVING SHOWER OR ANIMAL AREAS ARE MARKED WITH A HATCH AND SHALL BE OF ALUMINUM CONSTRUCTION, WITHOUT INTERNAL DUCT LINING.
3. REFRIGERANT PIPING UP THRU ROOF PER DETAIL 2/M5.00.
4. DOOR LOUVER, MINIMUM 0.25 SQ FT MINIMUM FREE AREA, SEE ARCH.
5. COORDINATE EXACT LOCATION OF BMS CONTROL PANEL IN ELECTRICAL ROOM WITH OTHER DISCIPLINES. POWER AND DATA CONNECTIONS BY DIV 26.
6. TYPE 2 DRYER EXHAUST DUCT, MIN 18 GA SHEET METAL WITH SMOOTH INTERIOR SURFACES. SIZES AND CONFIGURATION SHOWN IS BASED ON "UNIMAC" DRYER INSTALLATION MANUAL. INSTALL MINIMUM 6" FROM ALL COMBUSTIBLE MATERIALS. CONTRACTOR SHALL COORDINATE ALL DRYER EXHAUST DUCT WITH DRYER MANUFACTURER'S INSTALLATION REQUIREMENTS.
7. PROVIDE ACCESS DOOR ON BOTTOM OF EACH STRAIGHT DUCT SECTION FOR CLEANING.
8. SEAL SPACE AROUND DUCT THRU EXTERIOR WALL WITH NON-COMBUSTIBLE MATERIAL.

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MECHANICAL FLOOR PLAN - AREA C

M2.12

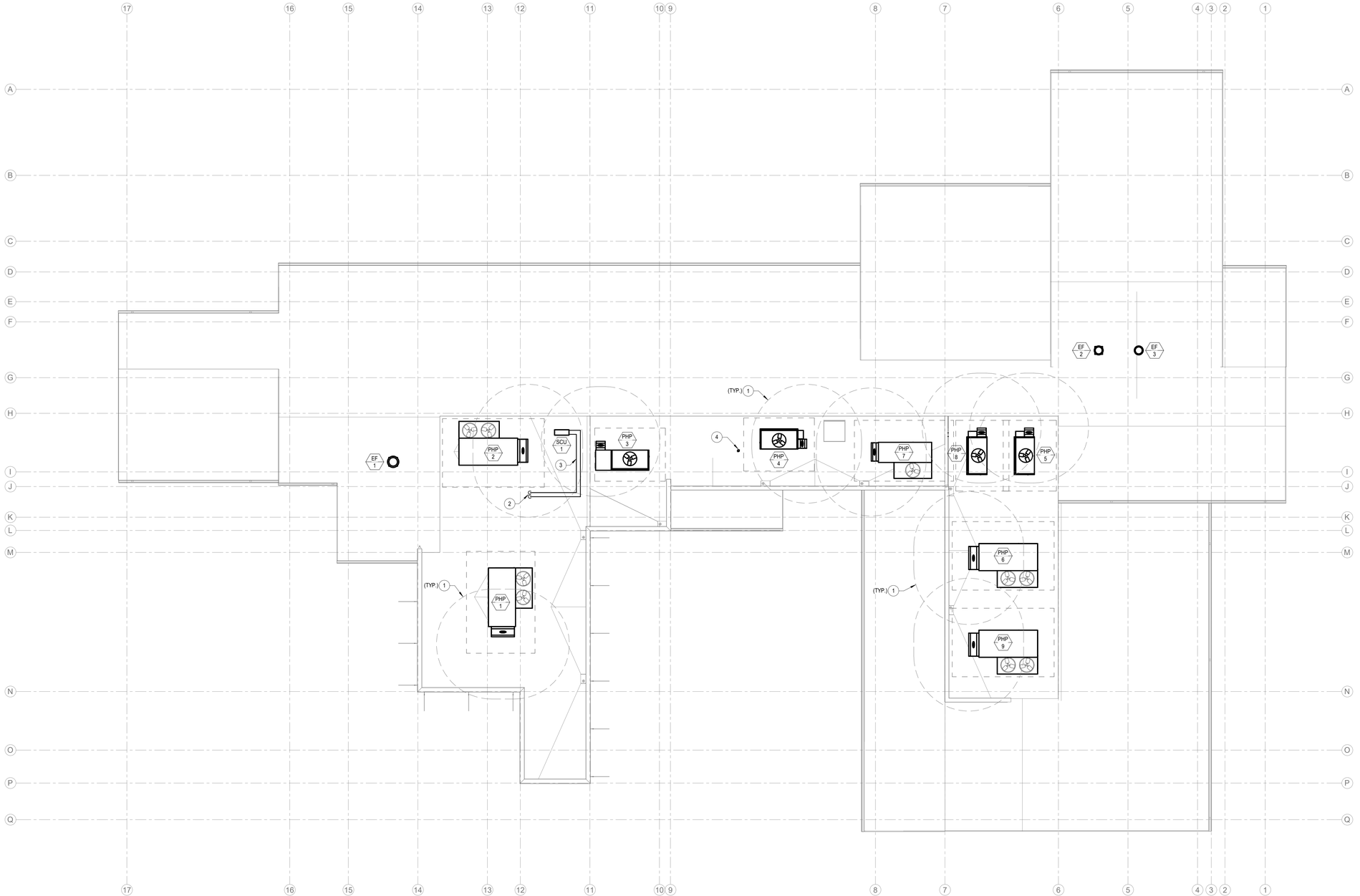
8/7/2026 9:49:05 AM

SHEET NOTES:

1. ROOFTOP HEAT PUMP UNITS SHALL BE INSTALLED WITH A MIN. DISTANCE OF 10'-0" FROM UNIT CABINET TO EDGE OF ROOF / PARAPETS LESS THAN 42" TALL, TYP.

KEYNOTES:

1. NO PLUMBING VENT(S) THRU ROOF, EXHAUST FAN DISCHARGE(S), ETC. ARE TO BE LOCATED WITHIN 10'-0" OF OUTSIDE AIR INTAKE LOCATIONS.
2. REFRIGERANT PIPING DOWN THRU ROOF PER DETAIL 2/M5.00.
3. SUPPORT REFRIGERANT PIPING ON ROOF PER DETAIL 4/M5.01.
4. DISCHARGE 6"ø EXHAUST DUCT AT ROOF WITH GREENHECK 'RFC-7' ROOF CAP.



1 M3.00 MECHANICAL ROOF PLAN

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

LDA DESIGNERS & ARCHITECTS

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OVERALL MECHANICAL ROOF PLAN

M3.00

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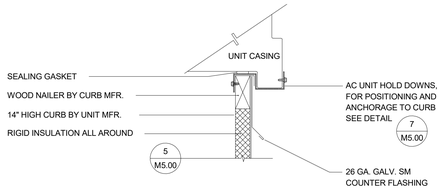
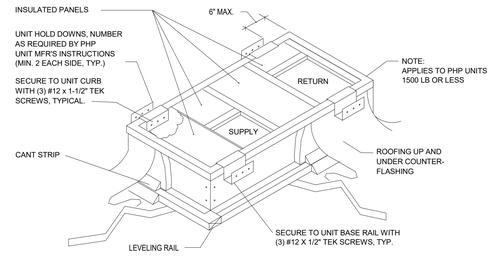
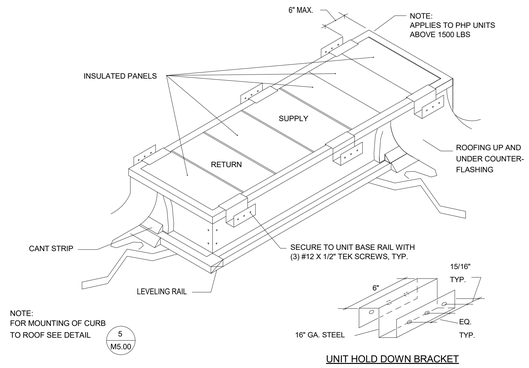


AC UNIT TO CURB MOUNTING

SCALE : NONE

6 M5.00



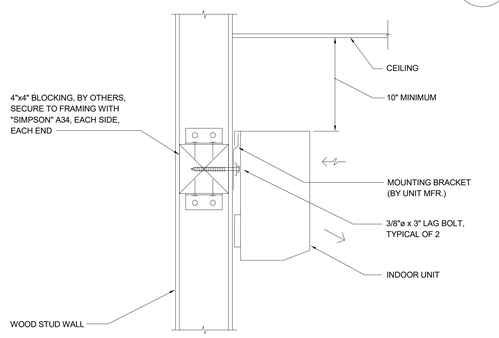


UNIT HOLD DOWN BRACKET

HOLD DOWN PLACEMENT

SCALE : NONE

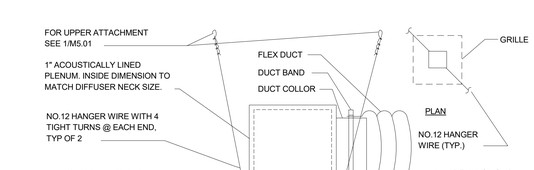
7 M5.00



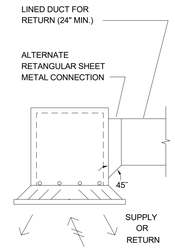
SAC INDOOR WALL MOUNTING

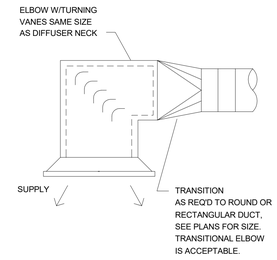
SCALE : NONE

8 M5.00



NOTE: AT CEILINGS WITH MEDIUM DUTY LAY-IN GRIDS, 4 HANGER WIRES ARE REQUIRED. 2 HANGER WIRES REQUIRED AT HEAVY DUTY CEILING GRIDS. VERIFY GRID TYPE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

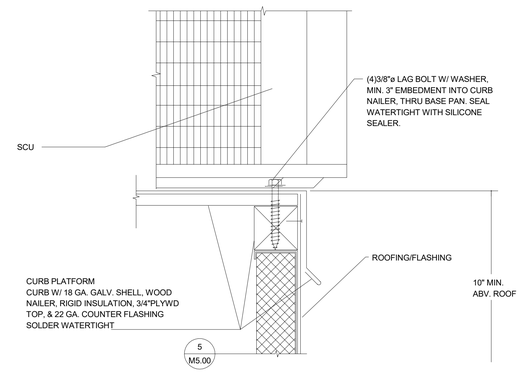




RETURN, EXHAUST, & SUPPLY REGISTER

SCALE : NONE

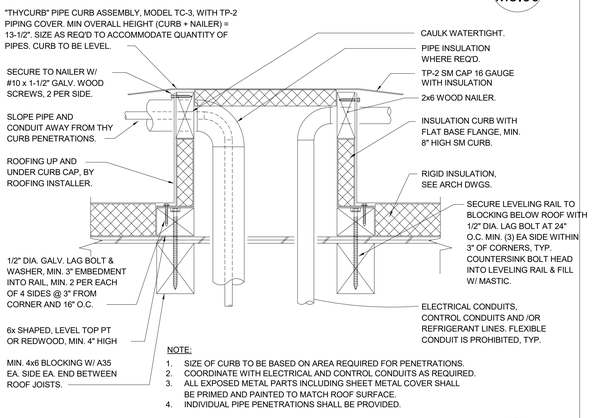
1 M5.00



SCU TO CURB MOUNTING

SCALE : NONE

4 M5.00

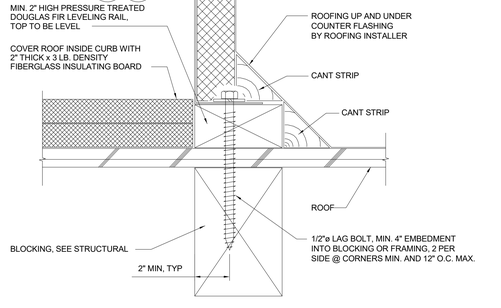


NOTE:
1. SIZE OF CURB TO BE BASED ON AREA REQUIRED FOR PENETRATIONS.
2. COORDINATE WITH ELECTRICAL AND CONTROL CONDUITS AS REQUIRED.
3. ALL EXPOSED METAL PARTS INCLUDING SHEET METAL COVER SHALL BE PRIMED AND PAINTED TO MATCH ROOF SURFACE.
4. INDIVIDUAL PIPE PENETRATIONS SHALL BE PROVIDED.

PIPE THRU ROOF SAFE

SCALE : NONE

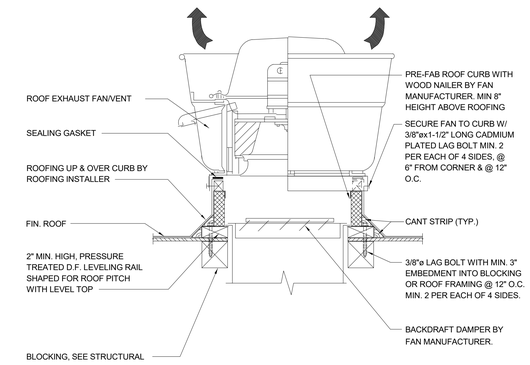
2 M5.00



CURB TO STRUCTURE MOUNTING

SCALE : NONE

5 M5.00



EXHAUST FAN/VENT MOUNTING - ROOF

SCALE : NONE

3 M5.00

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

Consultant:
Capital Engineering Consultants, Inc.
11020 Sun Center Dr,
Rancho Cordova, CA 95670
916.851.3500
www.capital-engineering.com

REGISTERED PROFESSIONAL ENGINEER ANTHONY C. VICTA M 29743 EXPIRES 6/30/26 MECHANICAL STATE OF CALIFORNIA

DATE SIGNED: 6/18/2026

capital engineering
RANCHO CORDOVA, CALIFORNIA

JH - AL/KD — PM - DESIGN TEAM
220663.99 — PROJECT NO.

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA 95330

Key Plan:

Project No.: ###-#-##
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/26

MECHANICAL DETAILS

M5.00

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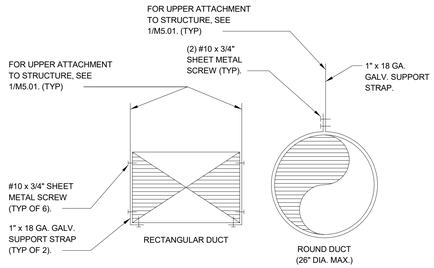
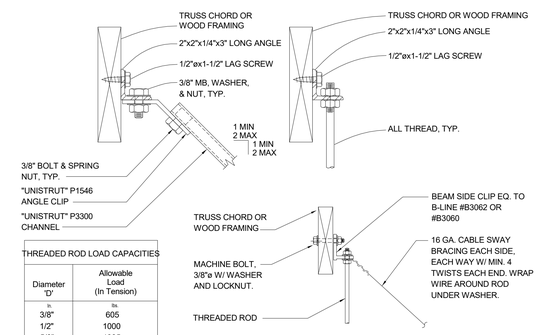


NOTES:
1) SUPPORT STRAP SPACING SHALL BE MAX. 8'-0" O.C.
2) PROVIDE HANGERS/SUPPORTS IN COMPLIANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS". REFER TO SPEC SECTION 238000 FOR ADDITIONAL REQUIREMENTS.
3) APPLIES TO RECTANGULAR DUCTWORK LESS THAN 6 SQFT CROSS SECTIONAL AREA, AND ROUND DUCTWORK UP TO 26" DIA., AND WEIGHT OF 20 LB/FT OR LESS. NO SEISMIC BRACING REQUIRED. FOR DUCTS REQUIRING SEISMIC BRACING COMPLY WITH OPM #0043-13.

TYPICAL CONCEALED DUCT SUPPORT

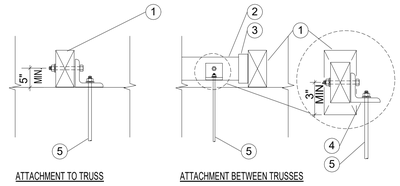
SCALE : NONE

3 / M5.01



THREADED ROD LOAD CAPACITIES

Diameter "D"	Allowable Load (In Tension)
in.	lbs.
3/8"	605
1/2"	1000
5/8"	1335
3/4"	1940

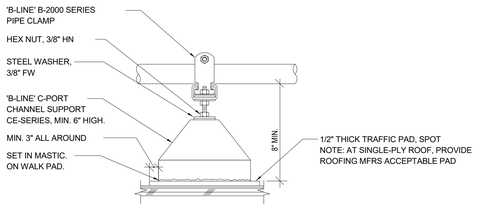


NUMBERED NOTES:
1. WOOD TRUSS CHORD OR WOOD FRAMING
2. 4x4 BLOCKING BETWEEN WOOD CHORDS
3. "SIMPSON" LUS44 HANGER (W/ 10D X 1-1/2" AT 2X FRAMING)
4. L2x2x1/4x3" LONG W/ 3/8" DIA THRU BOLT
5. HANGER ROD

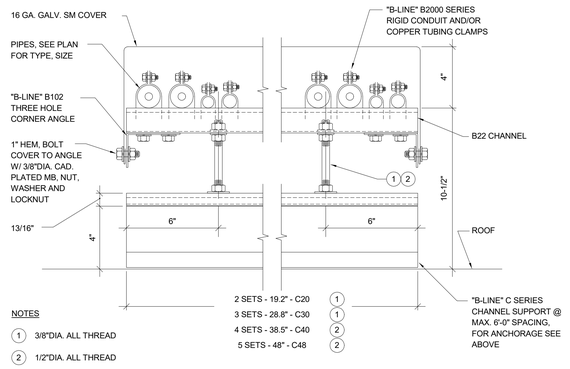
UPPER ATTACHMENT DETAILS

SCALE : NONE

1 / M5.01



FLOATING SUPPORT



NOTES

(1) 3/8"DIA. ALL THREAD

(2) 1/2"DIA. ALL THREAD

3. SINGLE SET = 1 RL, 1 RS, & 1 CONTROL CONDUIT

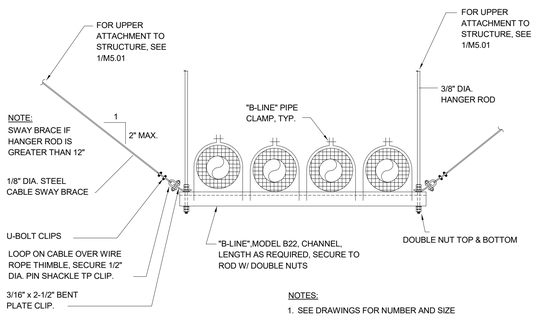
4. ALL EXPOSED METAL PARTS INCLUDING SHEET METAL COVER SHALL BE PRIMED AND PAINTED TO MATCH ROOF SURFACE

2 SETS - 19.2" - C20	(1)	
3 SETS - 28.8" - C30	(1)	
4 SETS - 38.5" - C40	(2)	
5 SETS - 48" - C48	(2)	

REFRIGERANT PIPE SUPPORT ON ROOF

SCALE : NONE

4 / M5.01

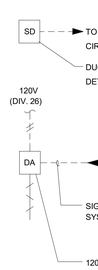


NOTES:
1. SEE DRAWINGS FOR NUMBER AND SIZE OF PIPES.
2. PIPE SUPPORT TO BE AT 5'-0" O.C.

PIPE HANGER DETAIL

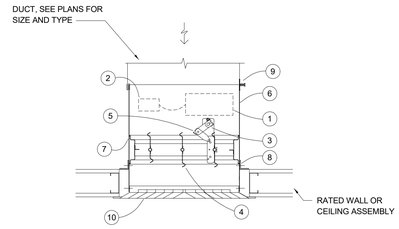
SCALE : NONE

5 / M5.01



WIRING DIAGRAM

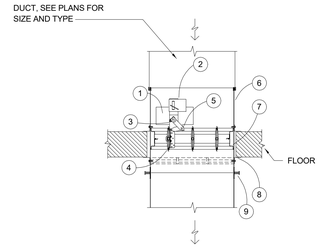
1. WIRE TO CLOSE DAMPER UPON SIGNAL FROM AREA SMOKE DETECTION FROM THE FIRE ALARM SYSTEM.
2. DAMPER ACTUATOR SHALL BE POWER-OPEN, FAIL-CLOSED TYPE.



BASIS OF DESIGN PRODUCT: "RUSKIN" FSD60-G
UL555/555S LISTING: R5531
CSFM LISTING: #3235-0245:126

MOUNTING DETAIL - GRILLE

INSTALLATION SHALL BE PER THE DAMPER MANUFACTURER'S U.L. LISTING FOR DAMPER IN THE PLANE OF THE CEILING AND ACTUATOR OUTSIDE OF THE DUCT. MANUFACTURER SHALL PROVIDE ALL COMPONENTS NECESSARY TO INSTALL THE DAMPERS PER THIS REQUIREMENT.



BASIS OF DESIGN PRODUCT: "RUSKIN" FSD60
UL555/555S LISTING: R5531
CSFM LISTING: #3235-0245:0126

MOUNTING DETAIL - FLOOR

INSTALLATION SHALL BE PER THE DAMPER MANUFACTURER'S U.L. LISTING FOR DAMPER IN THE PLANE OF THE FLOOR AND ACTUATOR OUTSIDE OF THE DUCT. MANUFACTURER SHALL PROVIDE ALL COMPONENTS NECESSARY TO INSTALL THE DAMPERS PER THIS REQUIREMENT.

FIRE & SMOKE DAMPERS SHALL BE STATE FIRE MARSHALL APPROVED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE ON-SITE TO THE INSPECTING AUTHORITIES. ACCESS POINTS TO DAMPERS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A LABEL READING "SMOKE/FIRE DAMPER".

DETAILS SHOWN ARE FOR REFERENCE ONLY.

(1) ACTUATOR (LOCATION MAY VARY). DAMPER MAY BE SUPPLIED WITHOUT ACTUATOR INSTALLED. SEE ACTUATOR INSTALLATION INSTRUCTIONS FOR FIELD MOUNTING OF DAMPER ACTUATORS.

(2) FIRESTAT OR ELECTRONIC FUSE LINK (EFL)

(3) AUXILLIARY OPERATING JACK SHAFT

(4) FIRE/SMOKE DAMPER

(5) OVER CENTER LOCK

(6) DAMPER SLEEVE

(7) CAULKING MATERIAL (MAY BE ON EITHER SIDE OF DAMPER FRAME)

(8) PICTURE-FRAME OR CONVENTIONAL MOUNTING MOUNTING ANGLES, PER MFR'S INSTRUCTIONS. MIN 1" OVERLAP ON WALL ALL SIDES OF DAMPER

(9) S-JOINT OR DUCTMATE CONNECTION TO DUCT

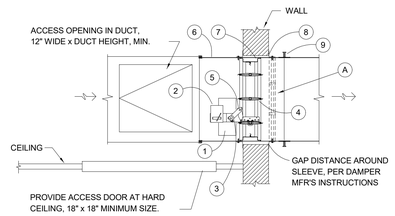
(10) GRILLE/DIFFUSER, WHERE APPLICABLE

(A) WHERE DAMPER IS LOCATED IN A SECURITY-BARRIER WALL, PROVIDE SECURITY BAR ACCESSORY OPTION, FACTORUY-INSTALLED BY DAMPER MFR. SECURITY BARS SHALL BE WELDED TO DAMPER SLEEVE AND SHALL NOT INVALIDATE THE DAMPER'S UL LISTED INSTALLATION. REFER TO SPECIFICATIONS FOR SECURITY BAR CONSTRUCTION DETAILS.

COMBINATION FIRE SMOKE DAMPER INSTALLATION

SCALE : NONE

2 / M5.01



BASIS OF DESIGN PRODUCT: "RUSKIN" FSD60
UL555/555S LISTING: R5531
CSFM LISTING: #3235-0245:0126

MOUNTING DETAIL - WALL

INSTALLATION SHALL BE PER THE DAMPER MANUFACTURER'S U.L. LISTING FOR DAMPER IN THE PLANE OF THE WALL AND ACTUATOR OUTSIDE OF THE DUCT . MANUFACTURER SHALL PROVIDE ALL COMPONENTS NECESSARY TO INSTALL THE DAMPERS PER THIS REQUIREMENT.

Architect:
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Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

Consultant:
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Rancho Cordova, CA 95670
916.851.3500
www.capital-engineering.com

REGISTERED PROFESSIONAL ENGINEER — ANTHONY G. CAPUTO — M 29743 EXPIRES 6/30/26 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 6/18/2026

capital engineering — RANCHO CORDOVA, CALIFORNIA

JH - AL/KD — PM - DESIGN TEAM
220663.99 — PROJECT NO.

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA 95330

Key Plan:

Project No.: ###-#-##
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Checked By: Checker

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6/23/26

MECHANICAL DETAILS

M5.01

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MATERIAL LEGEND

ALL PART NUMBERS ARE SIEMENS UNLESS OTHERWISE NOTED

SYMBOL	DESCRIPTION
CM	CONTROL MODULE
SERVER	SIEMENS COMPATIBLE SERVER
TCP	TEMPERATURE CONTROL PANEL
TX	LOW VOLTAGE CONTROL TRANSFORMER
DDC	SIEMENS BACNET PROGRAMMABLE CONTROLLER
VAV	SIEMENS BACNET PROGRAMMABLE VAV CONTROLLER
VLC	MANUFACTURER PROVIDED PROGRAMMABLE CONTROLLER
MS4-C	WALL SENSOR WITH CO2 SENSOR
SS-1	SIEMENS S.S WALL SENSOR
RH-1	RELATIVE HUMIDITY WALL SENSOR
OTS	SIEMENS OUTSIDE TEMPERATURE SENSOR
DTS-1	SIEMENS DUCT TEMPERATURE SENSOR
DTS-2	SIEMENS DUCT AVERAGING SENSOR
CS	CURRENT SWITCH
WTS	SIEMENS WELL IMMERSION TEMPERATURE SENSOR
DPT-1	DUCT DIFFERENTIAL PRESSURE TRANSDUCER
DPS-1	STATIC PRESSURE SWITCH
CO2-1	CO2 WALL SENSOR
CO2-2	CO2 OUTSIDE AIR SENSOR
SD	DUCT SMOKE DETECTOR
RIB	RELAY-IN-A-BOX
PC	AMBIENT LIGHT SENSOR, OUTDOOR
TS-1	STRAP ON MOUNTING AQUASTAT CONTROLLER
FSW	FLOW SWITCH
DA-F	DAMPER ACTUATOR (FLOATING)
DA-A	DAMPER ACTUATOR (ANALOG)
T-1	SPDT LINE VOLTAGE THERMOSTAT
TCV-F	TEMPERATURE CONTROL VALVE (FLOATING)
TCV-A	TEMPERATURE CONTROL VALVE (ANALOG)
AFMS	AIR FLOW MEASURING STATION
HS	DUCT HI PRESSURE SWITCH
LLT	LOW LIMIT STAT
LAN	LOCAL AREA NETWORK
M/S	MOTOR STARTER
VFD	VARIABLE FREQUENCY DRIVE
EA	EXHAUST AIR
SA	SUPPLY AIR
OA	OUTSIDE AIR
ENCL	NEMA ENCLOSURE
RA	RETURN AIR
PWR	POWER BY DIV. 26
PWR/FA	POWER AND FIRE ALARM WIRING BY DIV. 26

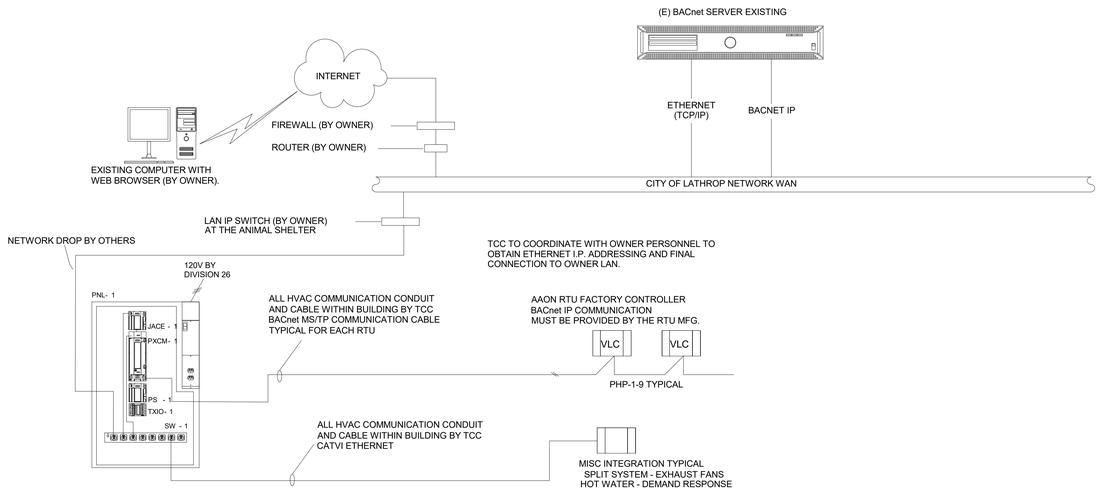
AI = ANALOG INPUT AO = ANALOG OUTPUT

DI = DIGITAL INPUT DO = DIGITAL OUTPUT

WIRING BY TEMPERATURE CONTROL CONTRACTOR (TCC)

WIRING BY DIVISION 26 ELECTRICAL CONTRACTOR (EC)

THESE CONTROL DIAGRAMS ARE DIAGRAMMATICAL AND DO NOT DEPICT ALL CONTROL WIRES, RELAYS OR COMPONENTS OF A COMPLETE SYSTEM. IT IS THE RESPONSIBILITY OF THE TEMPERATURE CONTROLS CONTRACTOR TO PROVIDE A COMPLETE AND FUNCTIONAL CONTROL SYSTEM, AT NO ADDITIONAL COST TO THE OWNER, TO MEET CONTROL INTENT OF DIAGRAMS SHOWN.



SEQUENCE OF OPERATIONS

BACNET BUILDING MANAGEMENT SYSTEM SHALL CONSIST OF A SIEMENS BUILDING CONTROLLER, UNBRANDED JACE CONTROLLER, ADVANCED APPLICATION CONTROLLERS AND APPLICATION SPECIFIC CONTROLLERS AS REQUIRED. THE EXISTING SD COUNTY NIAGARA SERVER USER INTERFACE WILL BE MODIFIED. NO NEW SERVERS OR WORKSTATIONS WILL BE PROVIDED BY THE TCC. TEMPERATURE CONTROL CONTRACTOR (TCC) SHALL PROVIDE FOLLOWING COLORGRAPHIC COMPUTER SCREENS (FOR ALL NECESSARY EQUIPMENT) ONTO EXISTING SERVER:

A. SITE PLAN SHOWING ALL BUILDINGS WITH NAVIGATION CAPABILITIES
B. INDIVIDUAL BUILDING FLOOR PLANS WITH ZONE SENSOR LOCATIONS
C. CONTROL CHART GRAPHIC SHOWING AT A GLANCE UNIT TEMPERATURES, SETPOINTS AND STATUS
F. EQUIPMENT GRAPHIC DEPICTING UNIT CONFIGURATION WITH DYNAMIC CAPABILITIES, COLORED LIGHTS FOR STAGES IN OPERATION, ANY ACTIVE ALARMS AND ALL TEMPERATURES SHOWN ON CONTROL DIAGRAMS.
G. DETAILED INDIVIDUAL UNIT CONTROL PANEL GRAPHIC SHOWING UNIT PARAMETERS, STATUS, SETPOINTS AND TEMPERATURES.

SYSTEM ARCHITECTURE

1) ALL CONDUIT AND CABLE TO BE INSTALLED PER SPECIFICATION AND CODE. (OPEN STYLE PLENUM RATED CABLE IS ACCEPTABLE PER CODE.)

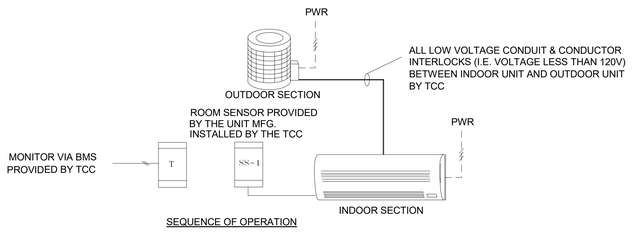
2) SEE MECHANICAL FLOOR PLANS FOR QTY'S AND LOCATIONS. CONTROLLER QTY SHOWN IN ARCHITECTURE DOES NOT ILLUSTRATE TRUE QTY REQUIRED. SHOWN TO ILLUSTRATE ARCHITECTURE STRUCTURE.

3) CAD FLOOR PLANS TO BE PROVIDED TO TCC FOR GRAPHIC DEVELOPMENT.

EMS ARCHITECTURE

SCALE : NONE

1 M6.00



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED THERMOSTAT AS REQUIRED FOR PROPER UNIT OPERATION.

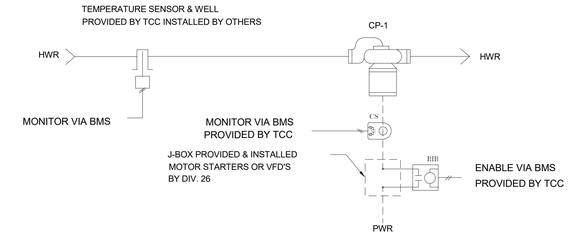
TCC TO PROVIDE AND INSTALL A ZONE TEMPERATURE SENSOR TO ALLOW THE OWNER REMOTE MONITORING VIA THE BMS. AN ALARM SHALL BE GENERATED AT THE OPERATOR WORKSTATION IF A CRITICAL ZONE TEMPERATURE OF 90 F (ADJUSTABLE) IS REACHED.

1) SEE SCHEDULE AND PLANS FOR QUANTITIES AND LOCATIONS

SPLIT SYSTEM CONTROLS

SCALE : NONE

3 M6.00



SEQUENCE OF OPERATION

GENERAL CONDITIONS:
WHEN BUILDING IS OCCUPIED DOMESTIC HOT WATER PUMP SHALL BE ENABLED TO OPERATE BASED ON HOT WATER RETURN TEMPERATURE SETPOINT.

IF PUMP IS ENABLED AND STATUS IS NOT DETECTED THEN AN ALARM SHALL BE GENERATED.

HOT WATER RETURN SETPOINT SHALL BE SET TO 100F (ADJUSTABLE).

DOM. WATER CIRC. PUMP CONTROL

SCALE : NONE

2 M6.00

DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
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222 Central Court
Stockton, CA 95204
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www.ldapartners.com

Consultant:
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REGISTERED PROFESSIONAL ENGINEER ANTHONY J. CAMPOS VICTORIA M 29743 EXPIRES 6/30/26 MECHANICAL STATE OF CALIFORNIA

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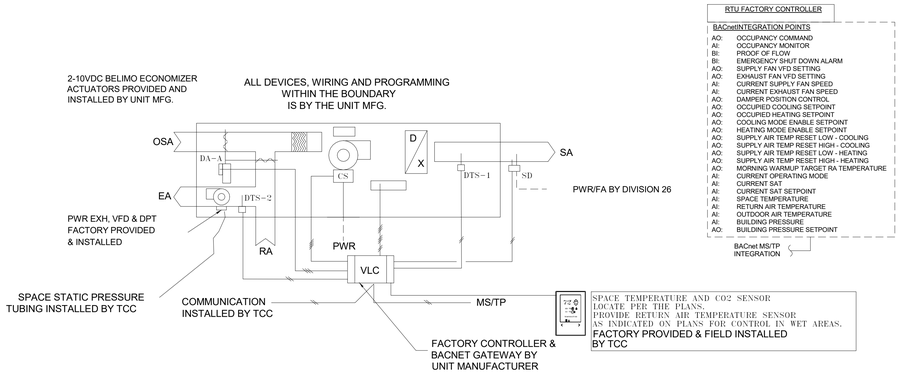
MECHANICAL CONTROLS

M6.00

6/17/2026 9:49:57 AM



SEQUENCE OF OPERATION

SYSTEM DETAILS
THE UNIT MFG. IS PROVIDING CONTROL DEVICES, BACNET COMMUNICATION CARDS, CONTROLLERS AND PROGRAMMING TO MEET THE SEQUENCE OF OPERATION EXCEPT AS NOTED OTHERWISE. SPACE TEMPERATURE SENSOR, SUPPLY TEMPERATURE SENSOR, AND BUILDING PRESSURE SENSOR SHALL BE PROVIDED BY TCC AND FIELD INSTALLED. RETURN AND OUTSIDE AIR TEMPERATURE SENSORS SHALL BE FACTORY INSTALLED.

THE TCC WILL INTEGRATE THE UNIT MFG. PROVIDED BACNET SOFTWARE POINT TO THE BMS FOR MONITORING.

SYSTEM TEMPERATURES, SETPOINTS AND EQUIPMENT STATUS SHALL BE DISPLAYED AND ADJUSTABLE FROM GRAPHICAL USER INTERFACE (GUI). BY THE TCC AT THE BMS.

SCHEDULING + OCCUPANCY CONTROL
DURING PERIODS OF OCCUPANCY PHP UNIT VLC CONTROLLER SHALL ENABLE FANS, OPEN ECONOMIZER DAMPERS AND ENABLE HEATING AND COOLING TO MAINTAIN ROOM SETPOINT. OUTSIDE AIR DAMPER SHALL BE COMMANDED CLOSED WHEN UNIT IS OFF. IF SUPPLY FAN IS ENABLED AND STATUS IS NOT SEEN THEN AN ALARM SHALL BE GENERATED AND HEATING/COOLING SHALL BE DISABLED.

SUPPLY & EXHAUST FAN OPERATION
SUPPLY AND EXHAUST FANS SHALL BE SET TO RUN CONTINUOUSLY DURING OCCUPIED MODE. SUPPLY FAN VFD SHALL BE RESET TO THE LOWEST POSSIBLE VALUE IN ORDER TO MAINTAIN SPACE TEMPERATURE SETPOINT. EXHAUST FAN VFD SHALL MODULATE TO MAINTAIN BUILDING PRESSURE SETPOINT.

MORNING WARM-UP MODE
THIS MODE IS A FUNCTION OF THE FACTORY CONTROLLERS PROGRAM AND CAN BE INITIATED VIA THE BACNET INTERFACE AT THE BMS THROUGH A SCHEDULER. ONCE THE MODE IS INITIATED THE SUPPLY FAN STARTS. THE MIXING DAMPERS POSITION FOR 100% RETURN AIR, THE HEATING MODE IS ACTIVATED, COOLING MODE IS DEACTIVATED. THE SYSTEM WILL REMAIN IN WARM-UP MODE UNTIL THE OCCUPIED SETPOINT IS REACHED. AFTER MORNING WARM-UP MODE THE UNIT WILL TRANSITION TO NORMAL OPERATION.

MINIMUM OUTDOOR AIR VENTILATION
DURING OCCUPIED MODE, THE ECONOMIZER DAMPER AND SUPPLY FAN VFD SHALL BE COMMANDED BY THE UNITARY CONTROLLER TO MAINTAIN POSITIONS WHICH SATISFY THE MINIMUM OUTDOOR AIR VENTILATION REQUIREMENTS FOR THE ZONE. WHEN SUPPLY FAN SPEED IS AT LESS THAN 100%, THE CONTROLLER SHALL MODULATE THE ECONOMIZER DAMPER OPEN FURTHER, SO AS TO MAINTAIN MINIMUM OUTDOOR AIR VENTILATION REQUIREMENTS. DAMPER POSITION(S) DETERMINED BY AIR BALANCING CONTRACTOR.

COOLING & ECONOMIZER COOLING
ON A CALL FOR COOLING, VLC CONTROLLER SHALL MODULATE ECONOMIZER DAMPERS AS FIRST STAGE OF COOLING AS LONG AS OUTSIDE AIR TEMPERATURE IS BELOW ECONOMIZER AIR LOCKOUT TEMPERATURE SET AT 65°F (ADJ). IF DURING ECONOMIZER OPERATION, VLC CANNOT MAINTAIN ROOM COOLING SETPOINT, AND ECONOMIZER HAS BEEN OPEN 100% FOR 5 MINUTES, VLC SHALL ENABLE AND STAGE DX COOLING IN CONJUNCTION WITH ECONOMIZER AS LONG AS OUTSIDE AIR TEMPERATURE IS ABOVE COOLING LOCKOUT TEMPERATURE SET AT 60°F (ADJ). IF OUTSIDE AIR TEMPERATURE RISES ABOVE ECONOMIZER LOCKOUT TEMPERATURE VLC SHALL CLOSE ECONOMIZER DAMPER TO MINIMUM POSITION.

ECONOMIZER ALGORITHMS SHALL BE BASED UPON GLOBAL OUTSIDE AIR DRY BULB TEMPERATURE AND ZONE TEMPERATURE. MINIMUM OUTSIDE AIR DAMPER POSITION SHALL BE DISPLAYED AND ADJUSTABLE FROM EACH DETAILED INDIVIDUAL UNIT CONTROL PANEL GRAPHIC.

TITLE 24 REQUIRED FAULT DETECTION AND DIAGNOSTICS (FDD) SHALL BE PROVIDED BY THE UNIT MFG. AND MONITORED BY THE TCC AT THE BMS VIA THE BACNET INTEGRATION AND SOFTWARE POINTS. THE UNIT MFG. SHOULD PROVIDE BACNET SOFTWARE POINTS FOR MONITORING.

HEATING MODE
THE CONTROLLER SHALL COMPARE THE HEATING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINE A NEED HEATING SIGNAL. DURING HEATING MODE, RESET THE SUPPLY FAN VFD SPEED TO THE LOWEST POSSIBLE VALUE IN ORDER TO MAINTAIN SPACE TEMPERATURE SETPOINT. ECONOMIZER TO BE COMMANDED TO MIN CFM SETPOINT DURING HEATING MODE.

DEMAND CONTROL VENTILATION
WHERE REQUIRED IN THE BUILDING THE UNIT MFG. WILL PROVIDE A ROOM CO2 SENSOR AND PROVIDE THE FOLLOWING SEQUENCE AS A FUNCTION OF THE FACTORY CONTROLLER. SEE EQUIPMENT SCHEDULE FOR UNITS REQUIRED TO HAVE DEMAND CONTROL VENTILATION.

THE FACTORY CONTROLLER WILL CONSTANTLY MONITOR THE ROOM CO2 LEVEL. WHEN THE CO2 LEVEL IN THE SPACE IS BELOW 1000 PPM (ADJ.), OUTSIDE AIR DAMPER SHALL BE SET IN THE "LOWER MIN." POSITION AS SCHEDULED IN HEAT PUMP UNIT SCHEDULE ON SHEET M0.01. WHEN THE CO2 LEVEL IN THE SPACE IS ABOVE 1000 PPM (ADJ.), OUTSIDE AIR DAMPER SHALL BE SET TO THE "UPPER MIN." POSITION AS SCHEDULED. OUTSIDE AIR DAMPER SHALL REMAIN AT THE "UPPER MIN." POSITION UNTIL CO2 LEVEL HAS DROPPED BELOW 1000 PPM (ADJ.), AND WILL THEN RETURN TO THE "LOWER MIN." POSITION.

SMOKE DETECTION
INTERLOCK DIVISION 26 PROVIDED FIRE MARSHALL APPROVED DUCT SMOKE DETECTOR WHERE LISTED. TCC SHALL INTERLOCK DUCT SMOKE DETECTOR TO SHUTDOWN UNIT UPON DETECTION OF PRODUCTS OF COMBUSTION. SEE EQUIPMENT SCHEDULE FOR UNITS REQUIRED TO HAVE SMOKE DETECTORS.

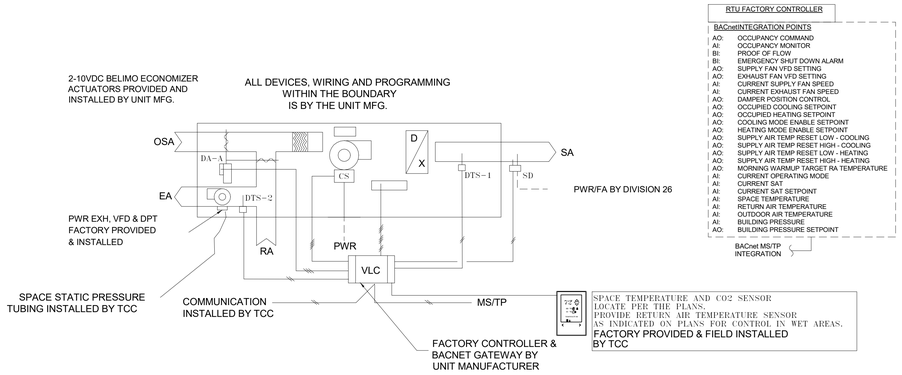
AUTOMATIC DEMAND RESPONSE

UNIT MFG. CONTROLLER SHALL BE CAPABLE OF AUTOMATIC DEMAND SHED (ADR). ADR CAPABILITIES SHALL INCLUDE ZONE TEMPERATURE RESET WITH AN ADJUSTABLE ADR REDUCTION AMOUNT FOR THE TEMPERATURE RESET. SYSTEM SHALL ALLOW MANUAL DISABLING BY AUTHORIZED PERSONNEL. SYSTEM SHALL ALSO ALLOW FOR A GLOBAL SINGLE POINT SETPOINT ADJUSTMENT. ADR SIGNAL SHALL BE A SINGLE BACNET SOFTWARE CONTROL POINT ABLE TO BE CONTROLLED BY THE TCC VIA THE BMS..

PHP CONTROLS - ECONOMIZER

SCALE : NONE

2 M6.01



SEQUENCE OF OPERATION

SYSTEM DETAILS
THE UNIT MFG. IS PROVIDING CONTROL DEVICES, BACNET COMMUNICATION CARDS, CONTROLLERS AND PROGRAMMING TO MEET THE SEQUENCE OF OPERATION EXCEPT AS NOTED OTHERWISE. SPACE TEMPERATURE SENSOR, SUPPLY TEMPERATURE SENSOR, AND BUILDING PRESSURE SENSOR SHALL BE PROVIDED BY TCC AND FIELD INSTALLED. RETURN AND OUTSIDE AIR TEMPERATURE SENSORS SHALL BE FACTORY INSTALLED.

THE TCC WILL INTEGRATE THE UNIT MFG. PROVIDED BACNET SOFTWARE POINT TO THE BMS FOR MONITORING.

SYSTEM TEMPERATURES, SETPOINTS AND EQUIPMENT STATUS SHALL BE DISPLAYED AND ADJUSTABLE FROM GRAPHICAL USER INTERFACE (GUI). BY THE TCC AT THE BMS.

SCHEDULING + OCCUPANCY CONTROL
DURING PERIODS OF OCCUPANCY PHP UNIT VLC CONTROLLER SHALL ENABLE FANS, OPEN ECONOMIZER DAMPERS AND ENABLE HEATING AND COOLING TO MAINTAIN ROOM SETPOINT. OUTSIDE AIR DAMPER SHALL BE COMMANDED CLOSED WHEN UNIT IS OFF. IF SUPPLY FAN IS ENABLED AND STATUS IS NOT SEEN THEN AN ALARM SHALL BE GENERATED AND HEATING/COOLING SHALL BE DISABLED.

SUPPLY & EXHAUST FAN OPERATION
SUPPLY AND EXHAUST FANS SHALL BE SET TO RUN AT A CONSTANT SPEED WHENEVER THE UNIT IS IN OCCUPIED MODE. AIRFLOW TO BE ADJUSTABLE AT THE CENTRAL EMS STATION.

MORNING WARM-UP MODE
APPLIES TO PHP-3 ONLY, ALL OTHER UNITS SHALL BE SCHEDULED FOR 24/7 OCCUPANCY. THIS MODE IS A FUNCTION OF THE FACTORY CONTROLLERS PROGRAM AND CAN BE INITIATED VIA THE BACNET INTERFACE AT THE BMS THROUGH A SCHEDULER. ONCE THE MODE IS INITIATED THE SUPPLY FAN STARTS. THE MIXING DAMPERS POSITION FOR 100% RETURN AIR, THE HEATING MODE IS ACTIVATED, COOLING MODE IS DEACTIVATED. THE SYSTEM WILL REMAIN IN WARM-UP MODE UNTIL THE OCCUPIED SETPOINT IS REACHED. AFTER MORNING WARM-UP MODE THE UNIT WILL TRANSITION TO NORMAL OPERATION.

COOLING & HEATING
WHILE IN OCCUPIED MODE, UNIT CONTROLLER SHALL DETERMINE NECESSARY MODE AND EMPLOY A SUPPLY AIR TEMPERATURE RESET STRATEGY TO MAINTAIN SPACE TEMPERATURE. COOLING AND HEATING MODE ENABLE SETPOINTS SHALL BE CONFIGURABLE AT THE BMS. SUPPLY AIR TEMPERATURE RESET LOW TO HIGH RANGE FOR BOTH COOLING AND HEATING MODE SHALL BE CONFIGURABLE AT THE BMS.

OUTSIDE AIR
UNIT SHALL BE CONFIGURED TO RUN IN 100% OUTSIDE AIR MODE DURING NORMAL OPERATION. AN EMERGENCY WILDFIRE OVERRIDE SHALL BE PROVIDED AT THE EMS TO FULLY CLOSE THE OUTSIDE AIR DAMPERS AND RE-CIRCULATE RETURN AIR INTO THE BUILDING.

SMOKE DETECTION
INTERLOCK DIVISION 26 PROVIDED FIRE MARSHALL APPROVED DUCT SMOKE DETECTOR WHERE LISTED. TCC SHALL INTERLOCK DUCT SMOKE DETECTOR TO SHUTDOWN UNIT UPON DETECTION OF PRODUCTS OF COMBUSTION. SEE EQUIPMENT SCHEDULE FOR UNITS REQUIRED TO HAVE SMOKE DETECTORS.

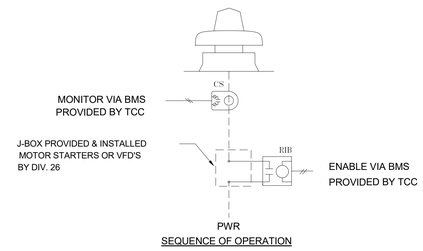
AUTOMATIC DEMAND RESPONSE

UNIT MFG. CONTROLLER SHALL BE CAPABLE OF AUTOMATIC DEMAND SHED (ADR). ADR CAPABILITIES SHALL INCLUDE ZONE TEMPERATURE RESET WITH AN ADJUSTABLE ADR REDUCTION AMOUNT FOR THE TEMPERATURE RESET. SYSTEM SHALL ALLOW MANUAL DISABLING BY AUTHORIZED PERSONNEL. SYSTEM SHALL ALSO ALLOW FOR A GLOBAL SINGLE POINT SETPOINT ADJUSTMENT. ADR SIGNAL SHALL BE A SINGLE BACNET SOFTWARE CONTROL POINT ABLE TO BE CONTROLLED BY THE TCC VIA THE BMS..

PHP CONTROLS - 100% OUTSIDE AIR

SCALE : NONE

1 M6.01



SEQUENCE OF OPERATION

BMS SHALL MONITOR AND CONTROL

- EF-1 TO OPERATE WHEN ROOM TEMPERATURE EXCEED 80 DEG F (ADJ.)
- EF-2 AND EF-3 TO INTERLOCK WITH RESTROOM LIGHTS.

EXHAUST FAN CONTROL

SCALE : NONE

3 M6.01

LDA DESIGNERS & ARCHITECTS

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222 Central Court
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Consultant:
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REGISTERED PROFESSIONAL ENGINEER ANTHONY C. VICTOR M 29743 EXPIRES 6/30/26 MECHANICAL STATE OF CALIFORNIA

DATE SIGNED: 6/18/2026

capital engineering
RANCHO CORDOVA, CALIFORNIA

JH - AL/KD — PM - DESIGN TEAM
220663.99 — PROJECT NO.

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA 95330

Key Plan:

Project No.: ###-#-##
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/26

MECHANICAL CONTROLS

M6.01

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 1 of 20)

Project Name: Lathrop Animal Shelter **Date Prepared:** 2026-04-03

A. General Information

1	Project Name	Lathrop Animal Shelter			
2	Run Title	Title 24 Analysis			
3	Project Location	15005 Stanford Crossing			
4	City	Lathrop, CA	5	Standards Version	Compliance 2025
6	Zip code	95330	7	Compliance Software (version)	EnergyPro 10.0
8	Climate Zone	12	9	Building Orientation (deg)	0
10	Building Type(s)	• Nonresidential	11	Weather File	CA_Title24_2025_STOCKTON.epw
12	Project Scope	• New envelope and mechanical	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	6528	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type	All electric
18	Is Natural Gas Available per Section 100.1?	Yes	19	Nonresidential Conditioned Floor Area	6528
20	Total # of Stories (Habitable Above Grade)	1	21	Residential Conditioned Floor Area	0

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 2 of 20)

B. PROJECT SUMMARY

Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance						Building Components Complying Prescriptively	
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐	Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
	MultiFam	Not Included		☒	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒	Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Performance	Covered Process: Laboratory Exhaust (see Table J)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Not Included	Photovoltaics (see Table F)	☐	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		☒	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐	Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 3 of 20)

C1. COMPLIANCE SUMMARY

COMPLIES*

	Long-term System Cost (LSC)[1]		Source Energy Use
	Efficiency[2] ($/ft²-yr)	Total[3] ($/ft²-yr)	Total[3] (kBtu/ft²-yr)
Standard Design	85.01	85.01	58.93
Proposed Design	73.49	73.49	20.1
Compliance Margins	**11.52**	**11.52**	**38.83**
	Pass	**Pass**	**Pass**

[1] Long-term System Cost (LSC) is a 30-year present value cost to California's energy system. LSC is not a predicted utility bill.
[2] Efficiency measures include energy efficiency improvements such as better building envelope and more efficient mechanical equipment
[3] Compliance Totals include efficiency, photovoltaics and batteries
** New Construction: Building complies when Proposed Design is equal to or less than Standard Design in all compliance categories and unmet load hour limits are not exceeded. Complete Addition Scope and Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded.*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 4 of 20)

C2. LSC ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual LSC Energy Use, $/ft²-yr)

COMPLIES

Energy Component	Standard Design (LSC)	Proposed Design (LSC)	Compliance Margin (LSC)[1]
Space Heating	30.99	20.25	10.74
Space Cooling	16.49	15.53	0.96
Indoor Fans	24.23	23.2	1.03
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	1.4	2.61	-1.21
Indoor Lighting	11.9	11.9	0
Flexibility	----	----	----
EFFICIENCY COMPLIANCE TOTAL	**85.01**	**73.49**	**11.52 (13.6%)**
Photovoltaics	----	----	----
Batteries	----	----	----
TOTAL COMPLIANCE	**85.01**	**73.49**	**11.52 (13.6%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 5 of 20)

C3. LSC ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (LSC)	Proposed Design (LSC)	Compliance Margin (LSC)[2]
Receptacle	19.06	19.06	----
Process	----	----	----
Other Ltg	----	----	----
Process Motors	----	----	----
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**104.07**	**92.55**	**11.52 (11.1%)**

[1] Notes: This table is not used for Energy Code Compliance.
[2] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 6 of 20)

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

COMPLIES

Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	46.82	8.67	38.15
Space Cooling	2.3	2.13	0.17
Indoor Fans	5.39	5.45	-0.06
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	1.3	0.73	0.57
Indoor Lighting	3.12	3.12	0
Flexibility	----	----	----
EFFICIENCY COMPLIANCE TOTAL	**58.93**	**20.1**	**38.83 (65.9%)**
Photovoltaics	----	----	----
Batteries	----	----	----
TOTAL COMPLIANCE	**58.93**	**20.1**	**38.83 (65.9%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 7 of 20)

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[2]
Receptacle	4.9	4.9	----
Process	----	----	----
Other Ltg	----	----	----
Process Motors	----	----	----
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**63.83**	**25**	**38.83 (60.8%)**

[1] Notes: This table is not used for Energy Code Compliance.
[2] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 8 of 20)

C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	----	21.7	----	337.6	----	----
Space Cooling	21	19.5	1.5	----	----	----
Indoor Fans	29.5	27.7	1.8	----	----	----
Heat Rejection	----	----	----	----	----	----
Pumps & Misc.	----	----	----	----	----	----
Domestic Hot Water	0.9	3	-2.1	7.9	----	----
Indoor Lighting	14.7	14.7	0	----	----	----
Flexibility	----	----	----	----	----	----
EFFICIENCY TOTAL	**66.1**	**86.6**	**-20.5**	**345.5**	**0**	**345.5**
Photovoltaics	----	----	----	----	----	----
Batteries	----	----	----	----	----	----
ENERGY USE SUBTOTAL	**66.1**	**86.6**	**-20.5**	**345.5**	**0**	**345.5**
Receptacle	23.9	23.9	0	----	----	----
Process	----	----	----	----	----	----
Other Ltg	----	----	----	----	----	----
Process Motors	----	----	----	----	----	----
ENERGY USE TOTAL	**90**	**110.5**	**-20.5**	**345.5**	**0**	**345.5**

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 9 of 20)

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	99.97	57.76	42.21	42.22
NET EUI[1]	99.97	57.76	42.21	42.22

[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

D1. EXCEPTIONAL CONDITIONS

• The aged solar reflectance and aged thermal emittance must be listed in the Cool Roof Rating Council database of certified products. For projects where initial reflectance is used, the initial reflectance must be listed, and the aged reflectance is calculated by the software program and used in the compliance model.
• PV/Battery Building Type has been modified from software defaults for one or more spaces. Review project's PV/Battery Building Type(s) with documentation author. Refer to Energy Code section 140.10 for Nonresidential or 170.2(g) for more information.
• Verify project meets the requirements for Vestibules as per Section 120.7(e).

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft²)**	**Total Fenestration Area (ft²)**	**Window to Wall Ratio (%)**
North-Facing[1]	1274	0	0
East-Facing[2]	1925	262	13.61
South-Facing[3]	1494	136	9.1
West-Facing[4]	1624	40	2.46
Total	**6317**	**438**	**6.93**
Roof	6528	0	0

Notes
[1]North-Facing is oriented to within 45 degrees of true north, including 4500'00" east of north (NE), but excluding 4500'00" west of north (NW),
[2]East-Facing is oriented to within 45 degrees of true east, including 4500'00" south of east (SE), but excluding 4500'00" north of east (NE),
[3]South-Facing is oriented to within 45 degrees of true south, including 4500'00" west of south (SW), but excluding 4500'00" east of south (SE),
[4]West-Facing is oriented to within 45 degrees of true west, including 4500'00" north of west (NW), but excluding 4500'00" south of west (SW),

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REGISTERED PROFESSIONAL ENGINEER ANTHONY CHRISTOPHER VICTORIA M 29743 EXPIRES 6/30/26 MECHANICAL STATE OF CALIFORNIA

DATE SIGNED: 6/18/2026

capital engineering
RANCHO CORDOVA, CALIFORNIA

JH - AL/KD PM - DESIGN TEAM | 220663.99 PROJECT NO.

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA 95330

Key Plan:

Project No.: ###-#-##
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/26

TITLE 24 COMPLIANCE

M7.00

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G2A. ROOFING PRODUCT SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06
Assembly Name	Roof Pitch	Roof Rise (x in 12)	Aged Solar Reflectance	Thermal Emittance	SRI
R-30 Roof No Attic9	LowSlope	N/A	0.3	0.9	N/A

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	Air Barrier
Com-Floor 1	No air barrier

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
Surface Name	Construction Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value		Units	Value	Description of Assembly Layers	Status[1]
					Interior	Exterior				
R-30 Roof No Attic9	Roof	6,528	Wood	30	N/A	N/A	U-factor	0.033	AsphaltShingles0_25In Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Ceiling - 3/4 in. Composite-1 Gypsum Board - 1/2 in.	N
Slab On Grade11	Underground Floor	6,528	N/A	0	N/A	N/A	F-factor	0.73	Slab Type =Unheated slab on grade Insulation Orientation =None Insulation R-Value =none	N
Uninsulated Ceiling13	Ceiling	6,528	N/A	0	N/A	N/A	U-factor	0.2294	Built-up roofing - 3/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 3/8 in.	N
8 CMU Wall18	Exterior Wall	2,447	N/A	0	N/A	N/A	U-factor	0.3794	Concrete - Part Grouted and Empty - 125 lb/ft3 - 8 in.	N
R-19 Wall37	Exterior Wall	3,622	Wood	19	N/A	N/A	U-factor	0.0723	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Composite-2 Gypsum Board - 1/2 in.	N
8 CMU Wall w/ 8 Furring140	Exterior Wall	248	Wood	19	N/A	N/A	U-factor	0.0579	Concrete - Part Grouted and Empty - 125 lb/ft3 - 8 in. Composite-3 Gypsum Board - 5/8 in.	N

[1] *Status: N - New, A - Altered, E - Existing*

G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

01	02	03	04
Assembly Name	Area (ft²)	Overall U-factor	Status[1]
Metal Door20	373	0.7	N

[1] *Status: N - New, A - Altered, E - Existing*

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method[1]	Assembly Method	Area (ft²)	Overall U-factor	Overall SHGC	Overall VT	Status[2]
PPG SOLARBAN 70 XL Clear	Vertical fenestration Curtain wall N/A	NFRC	Manufactured	438	0.41	0.26	0.63	N

[1] *Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
[2] *Status: N - New, A - Altered, E - Existing*

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	Equipment Type	Qty	Heating				Cooling			Economizer Type (if present)	Status[1]
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
PHP-1	Package SZ VAV Heat Pump Air System	1	108	76.77	COP	3.5	108	EER	12.7	No Economizer	N

[1] *Status: N - New, A - Altered, E - Existing*

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	Equipment Type	Qty	Heating				Cooling			Economizer Type (if present)	Status[1]
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
PHP-2	Package SZ VAV Heat Pump Air System	1	108	76.77	COP	3.5	108	EER	12.7	No Economizer	N
PHP-3	Package SZ VAV Heat Pump Air System	1	36	25.59	HSPF2	6.85	36	EER2 SEER2	12.06 13.4	No Economizer	N
PHP-4	Package SZ VAV Heat Pump Air System	1	48	25.59	HSPF2	7	48	EER2 SEER2	12 14.5	Fixed DB	N
PHP-5	Package SZ VAV Heat Pump Air System	1	60	25.59	HSPF2	7.35	60	EER2 SEER2	11 13.6	Fixed DB	N
PHP-8	Package SZ VAV Heat Pump Air System	1	48	25.59	HSPF2	7	48	EER2 SEER2	12 14.5	Fixed DB	N
SCU-1	Single Zone Air Conditioner (SZAC) Air System	1	0	0	N/A	NA	23.04	EER2 SEER2	12 21.1	No Economizer	N

[1] *Status: N - New, A - Altered, E - Existing*

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
Name or Item Tag	Qty	Design OA CFM	Supply Fan				Return / Relief Fan					Status[1]
			CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	
PHP-1	1	253.68	2,900	2.59	BHP	VSD	N/A	2,900	1.49	BHP	VSD	N
PHP-2	1	186.15	2,075	1.49	BHP	VSD	N/A	2,075	0.83	BHP	VSD	N
PHP-3	1	0	1,075	0.99	BHP	VSD	N/A	1,075	0.41	BHP	VSD	N
PHP-4	1	172.95	1,325	1.02	BHP	VSD	N/A	1,325	0.32	BHP	VSD	N
PHP-5	1	523.22	1,625	1.37	BHP	VSD	N/A	1,625	0.4	BHP	VSD	N
PHP-8	1	396.99	1,325	1.01	BHP	VSD	N/A	1,325	0.32	BHP	VSD	N
SCU-1	1	0	775	0.08	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

01	14	15	16	17	18	19
Name or Item Tag	Supply Fan			Return / Relief Fan		
	Modeling Method	Fan Efficiency	Motor Efficiency	Modeling Method	Fan Efficiency	Motor Efficiency
PHP-1	Brake Horse Power	0.65	0.9	Brake Horse Power	0.65	0.87
PHP-2	Brake Horse Power	0.65	0.87	Brake Horse Power	0.65	0.86
PHP-3	Brake Horse Power	0.65	0.86	Brake Horse Power	0.65	0.86
PHP-4	Brake Horse Power	0.65	0.87	Brake Horse Power	0.4	0.86
PHP-5	Brake Horse Power	0.65	0.87	Brake Horse Power	0.4	0.86
PHP-8	Brake Horse Power	0.65	0.87	Brake Horse Power	0.4	0.86
SCU-1	Brake Horse Power	0.65	0.86	N/A	N/A	N/A

[1] *Status: N - New, A - Altered, E - Existing*

H5. GENERAL EXHAUST FAN SUMMARY

01	02	03	04	05	06	07	08
System ID	Zone Name	Qty	CFM	Power	Power Units	Continuous Operation?	Status[1]
PHP-1 AC/hr3-EF	1-PHP-1 AC/hr	1	1730	0	BHP	No	N
PHP-2 AC/hr44-EF	2-PHP-2 AC/hr	1	1350	0	BHP	No	N
PHP-3 No AC/hr65-EF	3-PHP-3 No AC/hr	1	1075	0	BHP	No	N
PHP-5 No AC/hr134-EF	5-PHP-5 No AC/hr	1	200	0.13	BHP	No	N

[1] *Status: N - New, A - Altered, E - Existing*

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n)[1]	Other Special Features and Controls
PHP-1	Package SZ VAV Heat Pump Air System	N/A	Heat Recovery
PHP-2	Package SZ VAV Heat Pump Air System	N/A	Heat Recovery
PHP-3	Package SZ VAV Heat Pump Air System	N/A	Heat Recovery
PHP-4	Package SZ VAV Heat Pump Air System	N/A	Fixed DB
PHP-5	Package SZ VAV Heat Pump Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Fixed DB
PHP-8	Package SZ VAV Heat Pump Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Fixed DB
Plant1 - SHW	Service Hot Water	N/A	Fixed Temperature Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

[1] *Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	Mechanical Ventilation				Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
1-PHP-1 AC/hr	Retail - Pet shops (animal areas) General - Corridors	15.22	253.68	1730	1134	N/A
2-PHP-2 AC/hr	Retail - Pet shops (animal areas)	12.41	186.15	1350	730	N/A
3-PHP-3 No AC/hr	Exhaust - All other locker rooms	15.14	0	1075	1514	N/A
4-PHP-1 No AC/hr	Office - Office space	5.76	172.95	0	1153	N/A
5-PHP-5 No AC/hr	Office - Main entry lobbies	34.88	523.22	200	1057	DCV
6-PHP-8 No AC/hr	General - Conference/meeting	26.47	396.99	0	802	DCV
7-SAC-1	General - Unoccupied	0	0	0	138	N/A

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			VSD
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
1-PHP-1 AC/hr-Trm	Variable Air Volume No Reheat Box	1	N/A	N/A	2,900	2,200	0.76	N/A	N/A	N/A	☐
2-PHP-2 AC/hr-Trm	Variable Air Volume No Reheat Box	1	N/A	N/A	2,075	1,560	0.75	N/A	N/A	N/A	☐
3-PHP-3 No AC/hr-Trm	Variable Air Volume No Reheat Box	1	N/A	N/A	1,075	720	0.67	N/A	N/A	N/A	☐

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			VSD
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
4-PHP-1 No AC/hr-Trm	Variable Air Volume No Reheat Box	1	N/A	N/A	1,325	445	0.34	N/A	N/A	N/A	☐
5-PHP-5 No AC/hr-Trm	Variable Air Volume No Reheat Box	1	N/A	N/A	1,625	545	0.34	N/A	N/A	N/A	☐
6-PHP-8 No AC/hr-Trm	Variable Air Volume No Reheat Box	1	N/A	N/A	1,325	445	0.34	N/A	N/A	N/A	☐
7-SAC-1-Trm	Uncontrolled	1	N/A	N/A	775	N/A	0	N/A	N/A	N/A	☐

H13. ENERGY RECOVERY SUMMARY

01	02	03	04	05	06	07	08	09	10
Equipment Name	Equipment Type	Equipment Type	Heating			Cooling			Status[1]
			Sensible	Latent	Total	Sensible	Latent	Total	
PHP-1	Package SZ VAV Heat Pump Air System	HVI	0.7	0	0	0.7	0	0	N
PHP-2	Package SZ VAV Heat Pump Air System	HVI	0.77	0	0	0.77	0	0	N
PHP-3	Package SZ VAV Heat Pump Air System	HVI	0.6	0	0	0.6	0	0	N

[1] *Status: N - New, A - Altered, E - Existing*

I1. WATER HEATER EQUIPMENT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input	Rated Input Unit	Efficiency	Efficiency Unit	Tank Insulation R-value Int/Ext	Standby Loss Fraction	1st Hr. Rating or Flow Rate (gal)	Heat Pump Type	Tank Location or Ambient Condition
EWH-12	Electricity	Storage	1	120	29.99	kW	0.98	TE	N/A	0.01	N/A	N/A	N/A

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-E - For all buildings with Plumbing Systems

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction. Lighting controls and mechanical NRCAs must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component [1]	Form/Title & System Name(s)
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	PHP-1, PHP-2, PHP-3, PHP-4, PHP-5, PHP-8 and SCU-1.
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC
	SCU-1
Mechanical	NRCA-MCH-04(b)-A - Air Distribution Duct Leakage - ATT only
	SCU-1

LDA DESIGNERS & ARCHITECTS

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LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

Consultant:
Capital Engineering Consultants, Inc.
11020 Sun Center Dr,
Rancho Cordova, CA 95670
916.851.3500
www.capital-engineering.com

REGISTERED PROFESSIONAL ENGINEER ANTHONY CHRISTOPHER VICTA M 29743 EXPIRES 6/30/26 MECHANICAL STATE OF CALIFORNIA

DATE SIGNED: 6/18/2026

capital engineering
RANCHO CORDOVA, CALIFORNIA

JH - AI/KD PM - DESIGN TEAM | 220663.99 PROJECT NO.

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA 95330

Key Plan:

Project No.: ###-#-##
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/26

TITLE 24 COMPLIANCE

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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction. Lighting controls and mechanical NRCAs must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component [1]	Form/Title & System Name(s)
Mechanical	NRCA-MCH-05-A - Air Economizer Controls
	PHP-4, PHP-5 and PHP-8.
Mechanical	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to] can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.
	PHP-5 and PHP-8.
Mechanical	NRCA-MCH-07-A Supply Fan Variable Flow Controls
	PHP-1, PHP-2, PHP-3, PHP-4, PHP-5 and PHP-8.
Mechanical	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units
	PHP-4, PHP-5 and PHP-8.

[1]*Refer to other prescriptive NRCC forms applicable to the project for additional NRCA tests required that are not included in the NRCC-PRF-E form*

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

There are no certificates applicable to this project

Documentation Author's Declaration Statement

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

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants Inc.	Signature Date:
Address: 11020 Sun Center Dr. Suite 100	CEA/AEA/ECC Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

Responsible Person's Declaration statement

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

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

Responsible Designer Name:	Responsible Designer Signature:	
Company: LDA Partners, Inc.		
Address: 222 Central Court	Date Signed:	
City/State/Zip: Stockton, CA 95204	License #:	
Phone: 209-943-0405	Title:	Scope: Envelope
Responsible Designer Name: Anthony Colacchia	Responsible Designer Signature:	
Company: Capital Engineering Consultants, Inc		
Address: 11020 Sun Center Dr., Suite 100	Date Signed:	
City/State/Zip: Rancho Cordova, CA 95670	License #: M29743	
Phone: 916-851-3500	Title:	Scope: Mechanical & Dom. Hot Water

DESIGNERS & ARCHITECTS

Architect:
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Designers & Architects
222 Central Court
Stockton, CA 95204
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www.ldapartners.com

Consultant:
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REGISTERED PROFESSIONAL ENGINEER
ANTHONY COLACCHIA
M 29743
EXPIRES 6/30/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 6/18/2026

capital engineering
RANCHO CORDOVA, CALIFORNIA

JH - AL/KD PM - DESIGN TEAM
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LATHROP, CA 95330

Key Plan:

Project No.: ###-#-##
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/26

TITLE 24 COMPLIANCE

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SYMBOLS LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	---	3 WAY MODULATING CONTROL VALVE
	---	3 WAY TWO POSITION CONTROL VALVE
	---	3 WAY VALVE
	---	ANCHOR
	---	ANGLE GLOBE VALVE
	AVN	ANGLE VALVE
	AQ	AQUASTAT
	AD	AREA DRAIN
	---	AUTOMATIC AIR VENT
	---	AUTOMATIC FLOW CONTROL
	BFP, BP, DCW	BACKFLOW PREVENTER, REDUCE PRESSURE, DOUBLE CHECKVALVE
	---	BALANCING VALVE
	---	BALL JOINT
	---	BALL VALVE
	---	BOTTOM CONNECTION
	---	BUTTERFLY VALVE
BPT	BPT	BYPASS TIMER
	CBV	CALIBRATED BALANCE VALVE
	CB, RD	CATCH BASIN, ROOF DRAIN
	---	CHECK VALVE
	---	CIRCUIT SETTER VALVE
	CP	CIRCULATING PUMP
	CO	CLEANOUT
DS	DS	DYNAMIC SENSOR
	---	ECCENTRIC REDUCER
	EJ	EXPANSION JOINT
F	FD	FIRE DAMPER
	FDC	FIRE DEPARTMENT CONNECTION
	FHC	FIRE HOSE RACK AND CABINET
	FH	FIRE HYDRANT
FS	FS	FIRE/SMOKE DAMPER
	---	FLEXIBLE CONNECTOR
	---	FLOAT & THERMOSTATIC TRAP
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	---	FLOW ARROW
FE	---	FLOW ELEMENT
	FLV	FLOW LIMITING VALVE
FS	FS	FLOW SWITCH
	GCK	GAGE COCK

SYMBOLS LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	GSCK, PC	GAS COCK, PLUG COCK
	GM	GAS METER
	GPR	GAS PRESSURE REGULATOR
	---	GATE VALVE WITH HOSE ADAPTER
	---	GATE VALVE
	---	GLOBE VALVE
	HD	HOPPER DRAIN
	HB	HOSE BIBB
	HB	HOSE BIBB
H X	H	HUMIDISTAT
	---	INVERTED BUCKET TRAP
	---	LIMIT OF DEMOLITION
	---	MANUAL AIR VENT
	---	MODULATING CONTROL VALVE
	---	PIPE BREAK
	---	PIPE CAP
	---	PIPE DOWN
	---	PIPE GUIDE
	---	PIPE UP
	---	POINT OF CONNECTION
	PIV	POST INDICATOR VALVE
	PRV	PRESSURE REGULATING VALVE
	---	PRESSURE RELIEF VALVE
	---	REDUCER
SD	SD	SMOKE DAMPER
SD	SKD	SMOKE DETECTOR
	---	SOLENOID VALVE
	---	STRAINER
TS X	TS	TEMPERATURE SENSOR
	---	TEST PLUG
	---	THERMOMETER
T X	T	THERMOSTAT
	TP	TRAP PRIMER
	---	TWO POSITION CONTROL VALVE
	---	UNION
	---	VALVE IN RISER/DROP
	VB	VALVE IN VALVE BOX
	---	WALL CLEANOUT
	WHA	WATER HAMMER ARRESTOR
WM	WM	WATER METER

PLUMBING GENERAL NOTES

1. ACCESS PANELS SHALL BE PROVIDED AS NECESSARY TO PROPERLY ACCESS THE PLUMBING SYSTEM INCLUDING VALVES, REFER TO SPECIFICATION SECTION 08310.
2. OFFSET VENT THROUGH ROOFS 10'-0" MINIMUM FROM AIR INTAKES AND 4'-0" FROM OUTSIDE WALLS.
3. HVAC EQUIPMENT IS SHOWN FOR THE COORDINATION OF UTILITIES ONLY. REFER TO 'M' SHEETS FOR MORE INFORMATION.
4. THE CONNECTION OF NATURAL GAS LINES TO EQUIPMENT SHALL INCLUDE A LINE SIZE SHUT-OFF VALVE, UNION AND A MINIMUM 6" LONG DIRT LEG WITH ACCESSIBLE END CAP.
5. THE CONNECTION OF CONDENSATE DRAIN LINES TO HVAC EQUIPMENT SHALL INCLUDE A MINIMUM 4" DEEP "P"-TRAP AND PLUGGED TEE AT ALL OFFSETS.
6. PROVIDE WATER HAMMER ARRESTORS (WHA) AS INDICATED ON PLUMBING PLANS AND/OR AS DESCRIBED WITHIN DIVISION 22 SPECIFICATIONS. SIZING SHALL BE IN ACCORDANCE WITH PDI STANDARD WH-201.
7. FOR PIPES PASSING THROUGH, UNDER OR PARALLEL TO BUILDING FOOTINGS, RETAINING WALLS ETC. REFER TO STRUCTURAL DETAILS, 'S' SHEETS, FOR TYPICAL ARRANGEMENT.
8. CONTRACTOR SHALL FIELD VERIFY ALL POINTS OF CONNECTION TO SITE PIPING (LOCATIONS AND INVERT) PRIOR TO EXCAVATION, FABRICATION AND INSTALLATION OF ASSOCIATED PIPING RUNS. NOTIFY ARCHITECT AND OR ENGINEER IMMEDIATELY IF POINTS OF CONNECTION OR INVERTS ARE DIFFERENT THAN REPRESENTED ON THE DRAWINGS.
9. OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT TOP PLATES.
10. PENETRATION OF PIPES, CONDUIT, ETC., IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.
11. SEAL ALL PIPE PENETRATIONS THRU FLOORS WATERTIGHT.
12. DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD VERIFY WHERE POSSIBLE, EXACT LOCATIONS, SIZES, AND ELEVATIONS OF ALL ITEMS SHOWN PRIOR TO THE INSTALLATION OF ANY NEW WORK.
13. THE DRAWINGS ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTING OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT THE JOB SITE AND SHALL HAVE THE APPROVAL OF THE ARCHITECT BEFORE BEING INSTALLED.
14. ALL VALVES SHOWN SHALL BE FULL LINE SIZE UNLESS OTHERWISE NOTED.
15. CLOSELY COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO TRENCHING OR INSTALLATION OF NEW. IDENTIFY SIZE AND LOCATIONS OF ALL PENETRATIONS THROUGH FOUNDATIONS, WALLS OR ROOFS PRIOR TO FABRICATION OF ANY SYSTEMS OR ORDERING MATERIALS AFFECTED BY POSSIBLE COORDINATION CONFLICTS.
16. CONCRETE ANCHORS SHALL BE HILTI, KWIK BOLT TZ2 3/8" WITH EMBEDMENT AS PER STRUCTURAL PLANS. ANCHORS SHALL BE TESTED PER IR 19-1, INTERPRETIVE REGULATION FOR EXPANSION ANCHORS IN HARDENED CONCRETE. ANCHOR TEST SHALL BE 868 LBS. TENSION.
17. PIPING SHALL BE SUPPORTED AND BRACED IN STRICT COMPLIANCE WITH DIVISION 22 SPECIFICATIONS.
18. PENETRATION OF PIPES, CONDUITS, ETC., IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.
19. ALL NEW SANITARY WASTE PIPING SHOWN SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED ON PLANS. WHERE SLOPES LESS THAN 1/4" PER FOOT ARE INDICATED, CONTRACTOR SHALL SLOPE NEW PIPING UNIFORMLY BETWEEN UPPER TERMINAL OF PIPE AND THE POINT OF CONNECTION TO THE SITE PIPING (AS INDICATED ON THE CIVIL PLANS) TO ACHIEVE MAXIMUM SLOPE POSSIBLE AND IN NO CASE SHALL THE PIPING BE SLOPED LESS THAN THE MINIMUM INDICATED.
20. CONCEAL ALL PIPING IN WALL FURRING, PARTITIONS, ETC., EXCEPT AT MECHANICAL ROOMS.
21. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCATIONS OF PLUMBING FIXTURES.

FIRESTOPPING

1. PACK THE ANNULAR SPACE BETWEEN THE PIPE SLEEVES AND THE PIPE THROUGH ALL FLOORS AND WALLS WITH UL LISTED FIRE STOP, AND SEALED AT THE ENDS. ALL PIPE PENETRATIONS SHALL BE UL LISTED, HILTI, 3M PRO-SET, OR EQUAL.
   A. INSTALL FIRE CAULKING BEHIND MECHANICAL SERVICES INSTALLED WITHIN FIRE RATED WALLS, TO MAINTAIN CONTINUOUS RATING OF WALL CONSTRUCTION.
2. PROVIDE SPECSEAL SYSTEMS UL FIRE RATED SLEEVE/COUPLING PENETRATORS FOR EACH PIPE PENETRATION OR FIXTURE OPENING PASSING THROUGH FLOORS, WALLS, PARTITIONS OR FLOOR/CEILING ASSEMBLIES. ALL PENETRATORS SHALL COMPLY WITH UL FIRE RESISTANCE DIRECTORY (LATEST EDITION), AND IN ACCORDANCE WITH CHAPTER 7, CBC REQUIREMENTS.
3. SLEEVE PENETRATORS SHALL HAVE A BUILT IN ANCHOR RING FOR WATERPROOFING AND ANCHORING INTO CONCRETE POURS OR USE THE SPECIAL FIT CORED HOLE PENETRATOR FOR CORED HOLES.
4. COPPER AND STEEL PIPING SHALL HAVE SPECSEAL PLUGS ON BOTH SIDES OF THE PENETRATOR TO REDUCE NOISE AND TO PROVIDE WATERPROOFING.
5. ALL ABOVE SYSTEMS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
6. ALTERNATE FIRESTOPPING SYSTEMS ARE ACCEPTABLE IF APPROVED EQUAL. HOWEVER, ANY DEVIATION FROM THE ABOVE SPECIFICATION REQUIRES THE CONTRACTOR TO BE RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE PROPOSED PRODUCTS AND THEIR INTENDED USE, AND THE CONTRACTOR SHALL ASSUME ALL RISKS AND LIABILITIES WHATSOEVER IN CONNECTION THEREWITH.

PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.126.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM #)

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING THE BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2025 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT THAT IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF THAT DIRECTLY SUPPORT THE EQUIPMENT ARE TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PLUMBING ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ABC	ABOVE CEILING	LV	LAVATORY
ACC DR	ACCESS DOOR	MC	MOTOR CONTROLLER
ACC P	ACCESS PANEL	MECH	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MTD	MOUNTED
AFG	ABOVE FINISHED GRADE		
AFP	ABOVE FINISHED PAVEMENT	(N)	NEW
AHV	AIR HOSE VALVE	NC	NORMALLY CLOSED
ASH	AUTOMATIC SPRINKLER HEAD	NO	NORMALLY OPEN
BEL	BELOW	NTS	NOT TO SCALE
BFF	BELOW FINISHED FLOOR	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
BFG	BELOW FINISHED GRADE	OFOI	OWNER FURNISHED, OWNER INSTALLED
BFP	BACKFLOW PREVENTER	OH	OVERHEAD
BLDG	BUILDING	OS & Y	OUTSIDE SCREW AND YOKE
CDC	CALIFORNIA DEPARTMENT OF CORRECTIONS	PH	PHASE
CFF	CAPPED FOR FUTURE	PLBG	PLUMBING
CLG	CEILING	PLD	PLANTER DRAIN
CMP	CORRUGATED METAL PIPE	PO	PLUGGED OUTLET
COL	COLUMN	PRS	PRE-RINSE SINK
CONN	CONNECT/CONNECTION	PS	POT SINK
CONT	CONTINUATION	PT	PLASTER TRAP
CWH	COLD WATER HEADER	(R)	RISER
(D)	DROP	REC	RECESSED
DF	DRINKING FOUNTAIN	REQD	REQUIRED
DIA	DIAMETER	REV	REVISION
DN	DOWN	RM	ROOM
DW	DRY WELL	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
DW	DISHWASHER	RWL	RAIN WATER LEADER
DWG	DRAWING		
(E)	EXISTING	SD	STORM DRAIN
EL	ELEVATION	SH	SHOWER
ELEC	ELECTRICAL	SPEC	SPECIFICATION
EQUIP	EQUIPMENT	SS	STAINLESS STEEL/SERVICE SINK
ES	EMERGENCY SHOWER	STD	STANDARD
EW	EYE WASH	STRUC	STRUCTURAL
EWC	ELECTRIC WATER COOLER	(TA)	TO ABOVE
FA	FROM ABOVE	(TB)	TO BELOW
FB	FROM BELOW	T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
FD	FLOOR DRAIN	TD	TRENCH DRAIN
FFE	FINISHED FLOOR ELEVATION	TEMP	TEMPERATURE
FF	FINISHED FLOOR	TOC	TOP OF CONCRETE
FLR	FLOOR	TS	TAMPER SWITCH
FSR	FIRE SPRINKLER RISER	TYP	TYPICAL
FT	FLOOR TOILET		
/FT	PER FOOT	UF	UNDER FLOOR
FTK	FLUSH TANK	UG	UNDERGROUND
FU	FIXTURE UNIT	UL	UNDERWRITERS' LABORATORIES
FV	FLUSH VALVE	UR	URINAL
		US	UNDER SLAB
		V	VENT
GAL	GALLONS	VTR	VENT THRU ROOF
HC	HANDICAPPED	VO	VALVED OUTLET
HR	HOUR	VW	VACUUM WASTE
HS	HAND SINK		
HT	HEIGHT	W/	WITH
HTR	HEATER	W/O	WITHOUT
HWH	HOT WATER HEATER	W	WASTE
		WC	WATER CLOSET
IE	INVERT ELEVATION	WC/L	WATER CLOSET AND LAVATORY
KEC	KITCHEN EQUIPMENT CONTRACTOR	WF	WASH FOUNTAIN
KS	KITCHEN SINK	ZCV	ZONE CONTROL VALVE

PLUMBING PIPE SYSTEMS SCHEDULE

Type Image	Type Comments
	ACID WASTE
	CONDENSATE DRAIN
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
	INDUSTRIAL HOT WATER
	INDUSTRIAL COLD WATER
	OVERFLOW LEADER
	RAINWATER LEADER
	SANITARY SEWER
	SANITARY SEWER VENT

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DATE SIGNED: 6/18/2026

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JH - AL/KD — PM - DESIGN TEAM
220663.99 — PROJECT NO.

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA 95330

Key Plan:

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PLUMBING LEGENDS & NOTES

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MISCELLANEOUS PLUMBING EQUIPMENT

UNIT	DESCRIPTION
WMT 1	**WASHING MACHINE TROUGH** "STRIEM" MODEL TOUGH TROUGH-3; 319 GALLON WASHING MACHINE TROUGH SOLIDS INTERCEPTOR PHYSICAL DIMENSIONS: 36" x 18" x 12" WITH 4" OUTLET CAPACITY: 34 GALLONS LOCATION: LAUNDRY 126
CP 1	**RECIRCULATION PUMP** "B & G" ECOCIRC 20-18 VARIABLE SPEED, EC MOTOR, STAINLESS STEEL, 0.5 GPM @ 10FT HEAD, 1/6 HP, 3.0 AMP, 115V/60PH/1PH. SEE 2/M6.00 FOR CONTROLS. WEIGHT: 10 LBS
ET 1	**EXPANSION TANK** "B&G" MODEL PT-5, TANK VOLUME 2 GALLONS, 0.9 ACCEPTANCE VOLUME. WEIGHT: 5 LBS
BFP 1 BFP 2	**BACKFLOW PREVENTOR** "WATTS" SERIES LF009, 2", LEAD FREE, RPZ TYPE, 2'-2 3/4" L x 1'-3 1/2" W x 8 3/4" H WEIGHT: 30 LBS

ELECTRIC WATER HEATER SCHEDULE

EQUIPMENT TAG	MFR	MODEL NO	STORAGE CAPACITY (GAL)	RECOVERY @ 100 F RISE (GAL/HR)	MAX TEMP SETTING	ELECTRICAL DATA				OPER WT (LBS)	MOUNTING DETAIL	CONTROL DIAGRAM	REMARKS
						KW	VOLT	PHASE	FLA				
EWH-1	AO SMITH	DSE-120A	120	123	120	30	208	3	83.3	1450	7/P5.01		

SAND-OIL INTERCEPTOR SCHEDULE

EQUIPMENT TAG	MFR	MODEL NO	LOCATION	STORAGE CAPACITY (GAL)	LENGTH	HEIGHT	WIDTH	MOUNTING DETAIL	OPER WT (LBS)	REMARKS
SOI-1	JENSEN	JP-500-EE-SO	SALLYPORT - 168	500	6' - 0"	5' - 11"	4' - 3"		9300	

NOTES:
1. PROVIDE WITH TWO 24" CAST IRON FRAME AND COVER WITH GASTIGHT GASKET. COVER WITH H-20 TRAFFIC RATED DESIGN LOAD.

SAND-OIL INTERCEPTOR CALCULATION

LATHROP ANIMAL SHELTER

PLUMBING FIXTURE CALCULATION WORKSHEET FOR SIZING SAND OIL INTERCEPTORS
FROM 2025 CALIFORNIA PLUMBING CODE, CHAPTER 10 (TRAPS AND INTERCEPTORS), SECTION 1017.4.

INTERCEPTOR SERVICE AREA:		800 FT2
FIRST 100 FT2		6 FT3
EACH ADDITIONAL 100 FT2		7 FT3
TOTAL FT3 REQ:		13 FT3
13 FT3 x 7.48 GAL/FT3	=	98 GAL MIN

*MINIMUM SIZE AVAILABLE FROM MANUFACTURE IS 500GAL.

PLUMBING FIXTURE CALCULATION

LATHROP ANIMAL SHELTER

PLUMBING FIXTURE CALCULATION WORKSHEET FOR SIZING WATER AND WASTE MAINS
FROM 2025 CALIFORNIA PLUMBING CODE, APPENDIX A (DOMESTIC WATER), CHAPTER 7 (WASTE).

FIXTURE NO.	TYPE	COLD WATER FU	COLD WATER TOTAL	HOT WATER TOTAL @ 75%	WASTE FU	WASTE TOTAL
4	WC (F.V.) (PRI)	5	20	-	3	12
6	LAV (PUB)	1	6	4.5	1	6
2	SHOWER	2	4	3	2	4
11	SINK	1	11	8.25	2	22
1	SS	3	3	2.25	3	3
72	FD (2")	0	0	-	2	144
1	HB (1ST ONLY)	2.5	2.5	-	0	0
8	HB (EA ADD.)	1	8	-	0	0
2	GROOMING SINK	2	4	2	2	4
2	WASHING MACHINE	4	8	8	3	6
6	INDUSTRIAL HOSE REEL	1	8	6	0	0
	TOTAL UNITS		74.5	34		201

SYSTEM IS SIZED USING FLUSH VALVES:

TOTAL CW SIZE TO SERVICE (74.5 FU)	61.2	GPM
PRESSURE AT STREET MAIN*	50 (FIELD VERIFY)	PSI
HIGHEST FIXTURE	15	FT
PRESSURE LOSS FROM HEIGHT	6.5	PSI
PRESSURE LOSS FROM METER	4	PSI
PRESSURE LOSS FROM OTHER DEVICES	10	PSI
TOTAL PRESSURE LOSS	20.5	PSI
REQUIRED AT CRITICAL FIXTURE	25	PSI
PRESSURE AVAILABLE FOR FRICTION LOSS	4.5	PSI
TOTAL DEVELOPED LENGTH	260	FT
AVAILABLE DROP PER 100 FT	1.731	PSI
DROP PER 100 FT USED FOR PIPE SIZING	1.299	PSI
PIPE SIZE	2-1/2	IN
SEWER SIZE (201 FU)	4	IN

*NOTE: VERIFY AND ALERT ENGINEER IF PRESSURE AT STREET MAIN IS LOWER THAN 50 PSI.

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PLUMBING SCHEDULES

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PLUMBING FIXTURE CONNECTION SCHEDULE

ADA	SYMBOL	FIXTURE	FIXTURE MANUFACTURER AND MODEL No.	FAUCET OR VALVE MANUFACTURER AND MODEL No.	TRIM MANUFACTURER AND MODEL No.	REMARKS	VENT	WASTE		COLD WATER		HOT WATER	
								BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET
	S-1	SINK FLOOR MOUNTED HOT AND COLD WATER	"MIDMARK" SHOR-LINE'S CLASSIC FLOOR MOUNTED GROOMING TUB 60" H x 55-1/2" W x 24" D. 367 LBS	INTEGRAL		PROVIDE CLEANOUT FOR EACH FIXTURE.	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
♿	S-2	2 COMP. SINK UNDER MOUNT HOT AND COLD WATER ADA	FRANKE/KINDRED ALBD6406P-1/3 DOUBLE BOWL TOPMOUNT SINK, 31½" WIDEX 20½" FRONT-TO-BACK X 6" DEEP. 18-GAUGE TYPE 304 STAINLESS STEEL WITH SATIN FINISH. SINK SHALL BE TOPMOUNT WITH TWO COMPARTMENTS, 8" CENTERS, CENTER-REAR DRAIN LOCATIONS IN EACH BOWL.	"CHICAGO" ECAST 1100-E35-317ABCP (VVAVVP), WITH INDEXED WRIST BLADE HANDLES, 8" LONG SWIVEL SPOUT AND 1.5 GPM VANDAL REISTANT LAMINAR FLOW AERATOR.	"ELKAY" MODEL LKAD18, OFFSET STRAINER DRAIN AND P-TRAP. INSTALL P-TRAP FLUSH TO WALL.	PROVIDE CLEANOUT FOR EACH FIXTURE.	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
♿	S-3	SINGLE COMP. SINK UNDER MOUNT HOT AND COLD WATER ADA	"ELKAY" MODEL ECTSRSAD332260; 22" FRONT TO BACK, 33" WIDE x 6" DEPTH OVERALL. 18 GAUGE STAINLESS STEEL, SINGLE COMPARTMENT, UNDERMOUNT. PROVIDE FAUCET HOLES ON 8" CENTERS, PROVIDE CENTER-REAR DRAIN LOCATION.	"CHICAGO" ECAST 1100-E35-317ABCP (VVAVVP), WITH INDEXED WRIST BLADE HANDLES, 8" LONG SWIVEL SPOUT AND 1.5 GPM VANDAL REISTANT LAMINAR FLOW AERATOR.	"ELKAY" MODEL LKAD18, OFFSET STRAINER DRAIN AND P-TRAP. INSTALL P-TRAP FLUSH TO WALL.	PROVIDE CLEANOUT FOR EACH FIXTURE.	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
	S-4	HAND SINK WALL MOUNT HOT AND COLD WATER ADA	"ELKAY" MODEL ELV2219 22" x 19" x 5-1/2" WALL HUNG LAVATORY SINK. 18 GAUGE 304 STAINLESS STEEL REAR CENTER DRAIN	"CHICAGO" ECAST 1100-E35-317ABCP (VVAVVP), WITH INDEXED WRIST BLADE HANDLES, 8" LONG SWIVEL SPOUT AND 1.5 GPM VANDAL REISTANT LAMINAR FLOW AERATOR.	"ELKAY" MODEL LKAD18, OFFSET STRAINER DRAIN AND P-TRAP. INSTALL P-TRAP FLUSH TO WALL.	PROVIDE CLEANOUT FOR EACH FIXTURE.	2"	2"	2"	3/4"	3/4"	3/4"	3/4"
	SS-1	SERVICE SINK FLOOR MOUNTED	"FIAT" MODEL TSB3000, 24" x 24" x 12" DEEP, FLOOR MOUNTED, MOLDED STONE, WITH STAINLESS STEEL BUMPER GUARDS	"CHICAGO" MODEL 897-CP WALL MOUNTED POLISHED CHROME FAUCET WITH VACUUM BREAKER, ADJUSTABLE TOP BRACE AND 3/4" MALE THREADED HOSE OUTLET.	"FIAT" MODEL 1453-BB STRAINER, PROVIDE SUITABLE BLOCKING FOR TOP BRACE AS PART OF ROUGH-IN FOR FAUCET WITH P-TRAP	PROVIDE "FIAT" MODEL 832-AA HOSE & BRACKET AND "FIAT" MODEL 889-CC MOP RACK	2"	2"	2"	3/4"	3/4"	3/4"	3/4"
	HB-1	HOSE BIBB	"WOODFORD" MODEL B24PC, INTERIOR WALL MOUNTED BRASS CONCEALED BOX TYPE WITH LOCKABLE COVER, POLISHED CHROME FINISH.		WITH INTEGRAL VACUUM BREAKER.	MOUNT 18" ABOVE FINISHED GRADE OR FLOOR	-	-	-	3/4"	3/4"	-	-
	HB-2	HOSE BIBB	"WOODFORD" MODEL B24CH, EXTERIOR WALL MOUNTED BRASS CONCEALED BOX TYPE WITH LOCKABLE COVER, STANDARD CHROME FINISH.		WITH INTEGRAL VACUUM BREAKER.	MOUNT 18" ABOVE FINISHED GRADE OR FLOOR	-	-	-	3/4"	3/4"	-	-
	WB	WASHMACHINE WASHER BOX	"ACORN" MODEL 8186 WASH MACHINE BOX.	INTEGRAL	INTEGRAL	WITH HOT AND COLD WATER HOSE BIBBS AND DRAIN CONNECTION.	1-1/2"	2"	2"	3/4"	1/2"	3/4"	1/2"
	FD	FLOOR DRAIN	"ZURN" MODEL Z-415	TYPE "B" STRAINER FOR EXPOSED CONCRETE TYPE "S" STRAINER FOR TILE FLOOR TYPE "SL STRAINER FOR COMPOSITION FLOOR PROVIDE HEEL-PROOF GRATE	PROVIDE FLASHING RING AND CLAMP AT FLOORS WITH WATER RESISTANT MEMBRANE. SET TOP OF DRAIN SLIGHTLY BELOW FLOOR TO INSURE DRAINAGE. INSTALL VENTED P-TRAP. WHERE TRAP PRIMERS ARE INDICATED PROVIDE PROPER CONNECTION TO P-TRAP.		2"	4"	4"	-	-	-	-
	TD	TRENCH DRAIN	"DURA-TRENCH" DTPF PREFABRICATED 1% PRESLOPED TRENCH DRAIN SYSTEM. PROVIDE 4" REVEAL WIDTH, LENGTH TO MATCH ARCHITECTURAL PLANS. PROVIDE GLASS FIBER REINFORCED POLYMER CONCRETE BODY AND STAINLESS STEEL ADA GRATE WITH STAINLESS STEEL FASTENERS. PROVIDE WITH END OUTLET, STRAINER AND CATCH BASIN. PROVIDE "DURA-TRENCH" IN-LINE CATCH BASIN MODEL DTCBPF4-05CBLDTP	PROVIDE FLUSHING NOZZLE AT THE HIGH END FOR GRATE FLUSHING. REFER TO FLOOR PLANS FOR COLD WATER SUPPLY AND FLUSH VALVE LOCATION.			2"	4"	4"	1"	3/4"	-	-
	AD	AREA DRAIN	"ZURN" MODEL Z-2200 SMALL AREA FLOOR DRAIN	PROVIDE CAST IRON DRAIN BODY AND HEEL PROOF GRATE	PROVIDE FLASHING RING AND CLAMP AT FLOORS WITH WATER RESISTANT MEMBRANE. SET TOP OF DRAIN SLIGHTLY BELOW FLOOR TO INSURE DRAINAGE. INSTALL VENTED P-TRAP. WHERE TRAP PRIMERS ARE INDICATED PROVIDE PROPER CONNECTION TO P-TRAP.		-	4"	4"	-	-	-	-
	FS	FLOOR SINK	"ZURN" MODEL Z-1751 FOR GENERAL SPACES "ZURN" MODEL Z-1901-KC-2 FOR MECHANICAL SPACES		PROVIDE ANCHOR FLANGE, SEEPAGE PAN AND CLAMPING COLLAR. PROVIDE WHITE A.R.E. SEDIMENT BUCKET. PROVIDE 1/2 GRATE.	INSTALL FS FLUSH WITH FLOOR	2"	2" 3" 4"	2" 3" 4"	-	-	-	-
	HUD	HUB DRAIN	"ZURN" MODEL Z-1870, TYPE 304 STAINLESS STEEL			USED TO DRAIN FROM THE FIRE SPRINKLER RISER DURING TESTING, SEE DETAIL 11/PD-5.0 FOR INSTALLATION.	3"	4"	4"	-	-	-	-
	RD/OF	ROOF DRAIN OVERFLOW	COMBINATION ROOF DRAIN AND OVERFLOW. 4"ø PIPE SIZE MAX. - "JAY R. SMITH" MODEL 148, "ZURN" MODEL Z165 OR EQUAL. 5"ø AND 6"ø - "JAY R. SMITH" MODEL SQ-1-3282, "ZURN" MODEL Z164 OR EQUAL.	SECURE DECK PLATE TO ROOF. PROVIDE 6" HIGH CAST IRON VANDAL PROOF DOME TYPE STRAINER INLET AND CLAMPING COLLARS FOR PRIMARY AND OVERFLOW.			-	3" 4" 5" 6"	3" 4" 5" 6"	-	-	-	-
	DSN	DOWNSPOUT NOZZLE	"ZURN" MODEL Z-199, NICKEL BRONZE BODY				-	-	3"	-	-	-	-
	FV	FLUSH VALVE	"ZURN" MODEL Z6150AV-WS1 CONCEALED FLUSH VALVE				-	-	-	1-1/4"	1"	-	-
	HR	HOSE REEL	WALL MOUNTED, RETRACTABLE HOSE REEL				-	-	-	1"	3/4"	-	-
♿	WC-1	WATER CLOSET WALL MOUNTED FLUSH VALVE STD ACCESSIBLE	"KOHLER" KINGSTON NO. K-84325-SS-0, WALL HUNG, VITREOUS CHINA, ELONGATED, SIPHON JET ACTION, 1-1/2" TOP SPUD, 1.28 GPF. ANTIMICROBIAL SURFACE.	"SLOAN" ROYAL G2 OPTIMA PLUS 8111-1.28, ADA COMPLIANT, 1.28 GPF (BATTERY TOP)	SEAT: "CHURCH" MODEL 295SSCT OR "BEMIS" MODEL 1955SSCT. PROVIDE WITH SELF-SUSTAINING CONCEALED CHECK HINGES, ONE PIECE STEEL POST HINGES, WHITE COLOR.	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. WHERE USED FOR CBC ACCESSIBLE WATER CLOSETS, THE FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE WATER CLOSET ENCLOSURE.	2"	4"	4"	1-1/4"	1"	-	-
♿	L-1	LAVATORY WALL MOUNTED HOT AND COLD WATER ADA	"KOHLER" KINGSTON NO. K-2005 WALL HUNG, VITREOUS CHINA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FRONT OVERFLOW, CONCEALED ARM RECESS, 4" CENTERS, 21-1/4"x18-1/8" D SHAPED BOWL.	"T&E" EC-3142-4DP SENSOR FAUCET. WITH AERATOR WITH 0.5 GPM FLOW RATE. BELOW DECK THEMOSTATIC MIXING VALVE SET FOR HOT WATER OUTLET AT 110° F. WITH VANDAL RESISTANT ECONO-FLO SPRAY OUTLET., WITH IPS CONNECTIONS. ADA COMPLIANT. AC TRANSFORMER AND BATTERY BACKUP. SET FLOW TIMER TO 15 SECONDS MIN.	ADA COMPLIANT. LAVATORY GRID DRAIN WITH 4-1/4" OFFSET TAILPIECE. INTEGRAL PERFORATED GRID NO. 7723.018, CHROME FINISH. MOUNT P-TRAP FLUSH TO WALL, AND PROVIDE INSULATED DRAIN PIPING. CARRIER: "J.R. SMITH" 0700 OR "ZURN" Z1231	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CONCEALED ARMS AND FLOOR SUPPORT, WITH FEET OF SUPPORT SECURELY ANCHORED TO FLOOR. IN ADDITION ANCHOR TOP OF SUPPORT TO WALL CONSTRUCTION.	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
♿	DF-1	ELECTRIC WATER COOLER WALL MOUNTED DUAL HEIGHT ADA	"ELKAY" EZH2O MODEL LZWS-LRPBM28K, BOTTLE FILLING STATION WITH BI-LEVEL FILTERED, REFRIGERATED MODEL, WITH FLEXI-GUARD SAFETY BUBBLERS AND BOTTLE FILLER STATION. 1.5 GPM FILL RATE, 8.0 GPH CHILLING CAPACITY. STAINLESS STEEL.		WITH P-TRAP	1.0 FLA @ 115V/60Hz, 370 RATED WATTS	1-1/2"	2"	2"	3/4"	1/2"	-	-
♿	SH-1	SHOWER SURFACE MOUNTED ADA	"AMERICAN STANDARD" #TU662.213 COMMERCIAL SHOWER SYSTEM KIT. RELIANT3 VALVE ONLY TRIM W/ PRESSURE BALANCE CARTRIDGE, 3-FUNCTION HAND SHOWER W/ NON-POSITIVE SHUT-OFF, IN-LINE VACUUM BREAKER, 59" METAL HOSE, WALL SUPPLY, FLOWISE SHOWERHEAD, 2-WAY DIVERTER VALVE, DIVERTER HANDLE, 36" SLIDE BAR. 1.5 GPM, ADA.	COMPLETE WITH HOT AND COLD WATER PRESSURE BALANCED MIXING VALVES, 1.5 GPM FLOW CONTROL, EQUA-FLO HEAVY DUTY PRESSURE BALANCED MIXING VALVE, SEVERE SERVICE SHOWER HEAD, RECESSED SOAP DISH AND VERTICAL SHROUD.		MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. SEE PLAN FOR ACCESSIBLE SEAT AND BAR LOCATION.	-	-	-	-	3/4"	1/2"	3/4"	1/2"
	TP-1	TRAP PRIMER	"MIFAB" M-500 TRAP PRIMER VALVE	PROVIDE WITH VACUUM BREAKER.		INSTALL PER MANUFACTURERS INSTRUCTIONS. PROVIDE DISTRIBUTION UNIT WITH FEEDER PIPING FOR A MAX. OF FOUR TRAPS WHEN NEEDED. PROVIDE SURFACE MOUNT BOX IN CHASES & MECHANICAL ROOMS. PROVIDE RECESSED BOX WITH ACCESS DOOR ALL OTHER LOCATIONS.	-	-	-	-	1/2"	1/2"	-	-
	TP-2	ELECTRONIC TRAP PRIMER	"PPP" PRIME-RITE TRAP PRIMER VALVE, MODEL MP-500	PROVIDE BALL VALVE AT EACH TP LOCATION. PROVIDE 115V CONNECTION.		INSTALL PER MANUFACTURERS INSTRUCTIONS. PROVIDE DISTRIBUTION UNIT WITH FEEDER PIPING FOR A MAX. OF FOUR TRAPS WHEN NEEDED. PROVIDE SURFACE MOUNT BOX IN CHASES & MECHANICAL ROOMS. PROVIDE RECESSED BOX WITH ACCESS DOOR ALL OTHER LOCATIONS.	-	-	-	-	1/2"	1/2"	-	-
♿	UR-1	URINAL WALL MOUNTED FLUSH VALVE ADA	"AMERICAN STANDARD" PINTBROOK NO. 6002.001, 0.125 GPF, WALL HUNG, VITREOUS CHINA, SIPHON JET ACTION. 3/4" TOP SPUD, 2" THREADED OUTLET.	"SLOAN" ROYAL 186-0.125. ADA COMPLIANT, MANUAL FLUSH, 0.125 GPF.	CARRIER: "J.R. SMITH" 637 SERIES OR "ZURN" Z1222	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CLEANOUT FOR EACH FIXTURE.	1-1/2"	2"	2"	1"	3/4"	-	-
	RIM	REFRIGERATOR ICE MAKER	"GUY GRAY" MODEL SSIB2AB LEAD FREE ICE MAKER HOOK-UP, WITH 1/2" FIP INLET AND 1/4" COMPRESSION OUTLET. PROVIDE STAINLESS STEEL BOX AND STAINLESS STEEL FACE PLATE.			PROVIDE WATER SUPPLY WITH "WATTS" SD-2 BACKFLOW PREVENTOR, OR EQUAL.	-	-	-	1/2"	1/4"	-	-
	DB	DOWNSPOUT BOOT	"ZURN" MODEL Z-191, TYPE 304 STAINLESS STEEL				3"	4"	4"	-	-	-	-

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15005 STANFORD CROSSING
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PLUMBING FIXTURE SCHEDULE

P0.03

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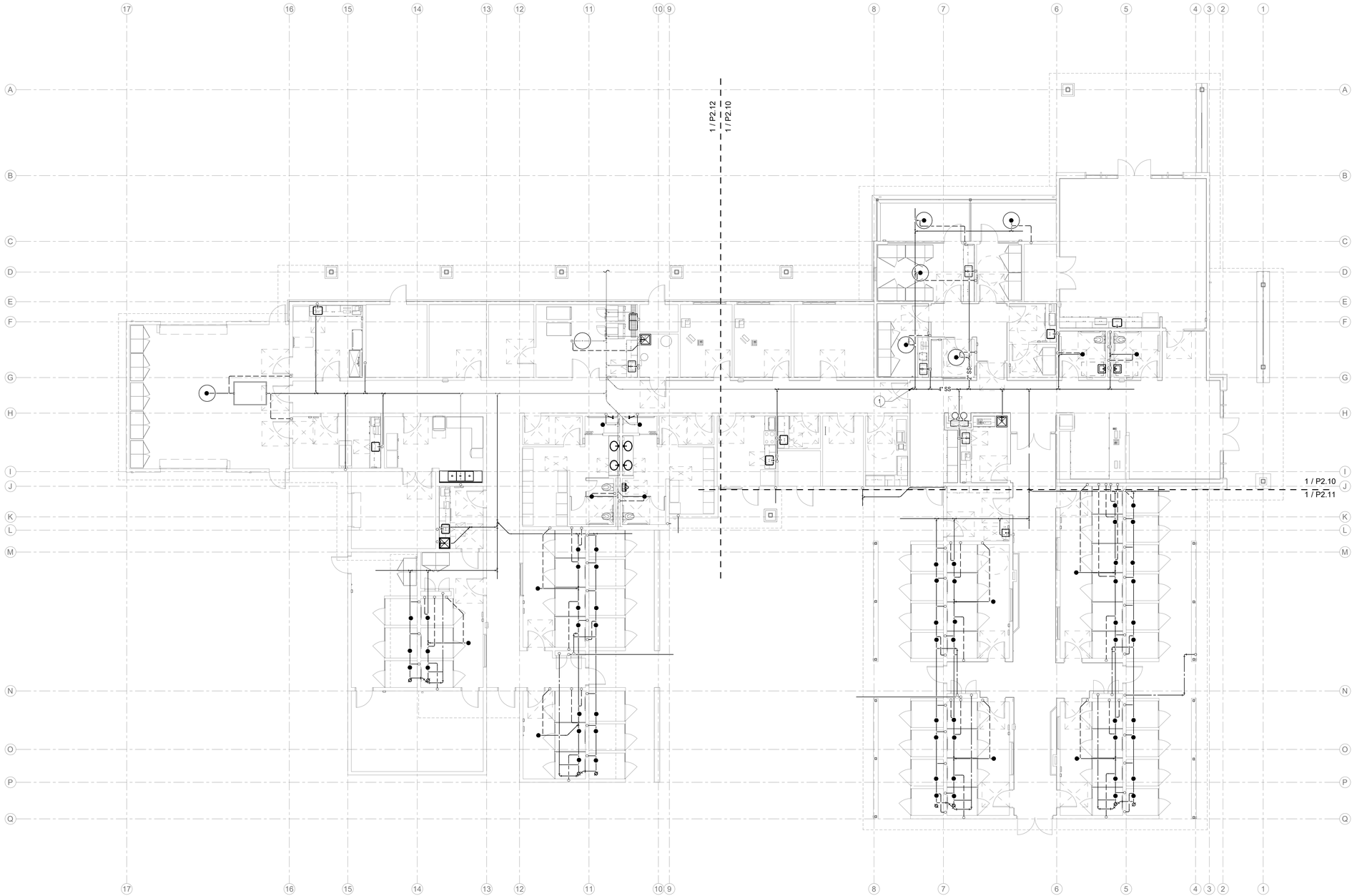

1 P2.00 OVERALL UNDERGROUND PLUMBING PLAN

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

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OVERALL UNDERGROUND PLUMBING PLAN

P2.00

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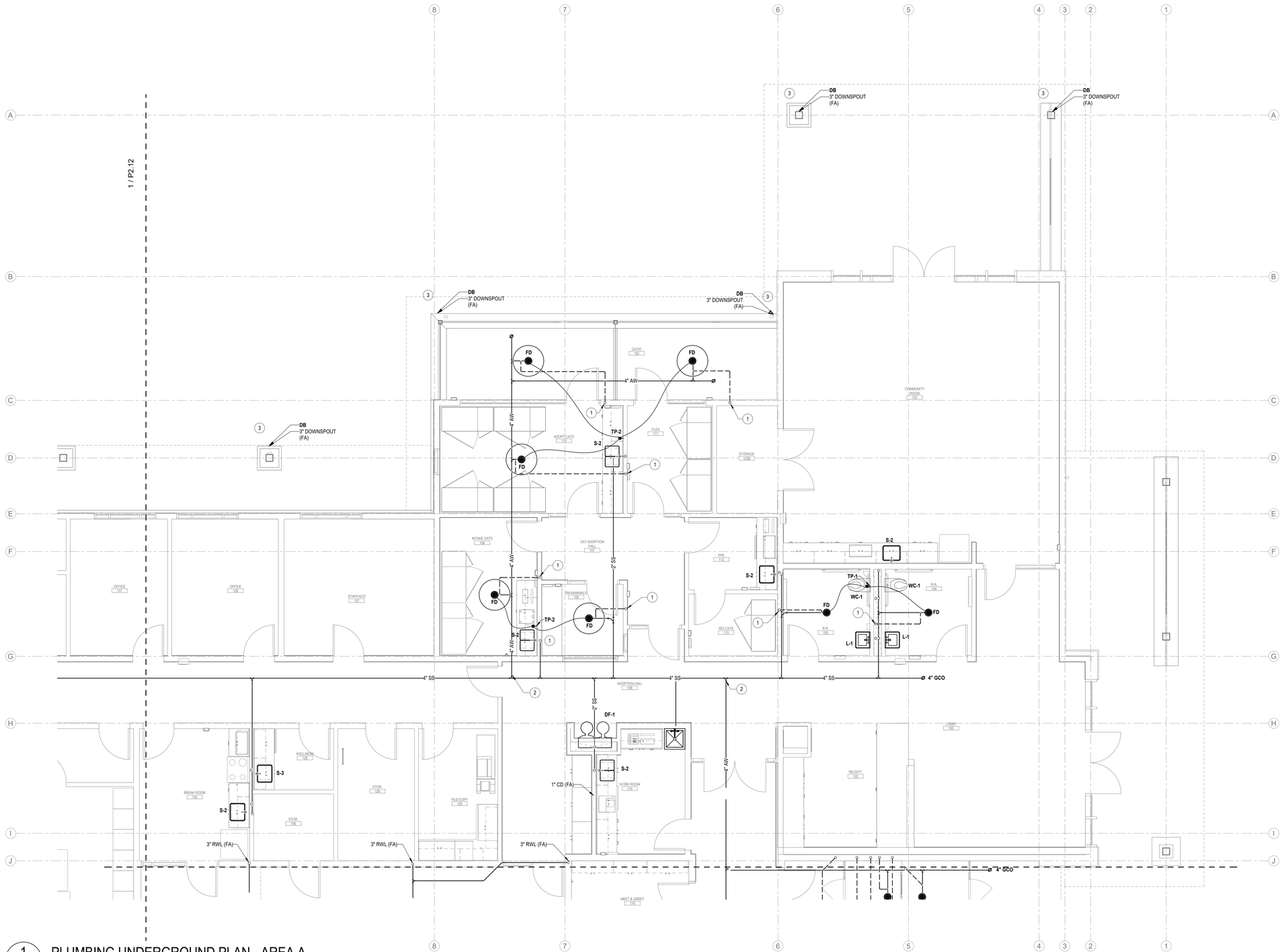

1 P2.10 PLUMBING UNDERGROUND PLAN - AREA A

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

SHEET NOTES:

1. CONTRACTOR TO VERIFY ALL UNDERGROUND PIPES MEET STRUCTURAL REQUIREMENTS WHEN LOCATED THROUGH OR NEAR FOOTINGS, REFER TO DETAIL 1/S106.

KEYNOTES:

1. VENT PIPING TO ABOVE. SEE FIXTURE SCHEDULE ON P0.03 FOR VENT PIPE SIZING PER FIXTURE.
2. CONNECT ACID WASTE PIPE TO SANITARY SEWER SYSTEM PER REQUIREMENTS OF SPECIFICATION 221000.
3. FOR DOWNSPOUT CONTINUATION, SEE SHEET A3.00.

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PLUMBING UNDERGROUND PLAN - AREA A

P2.10

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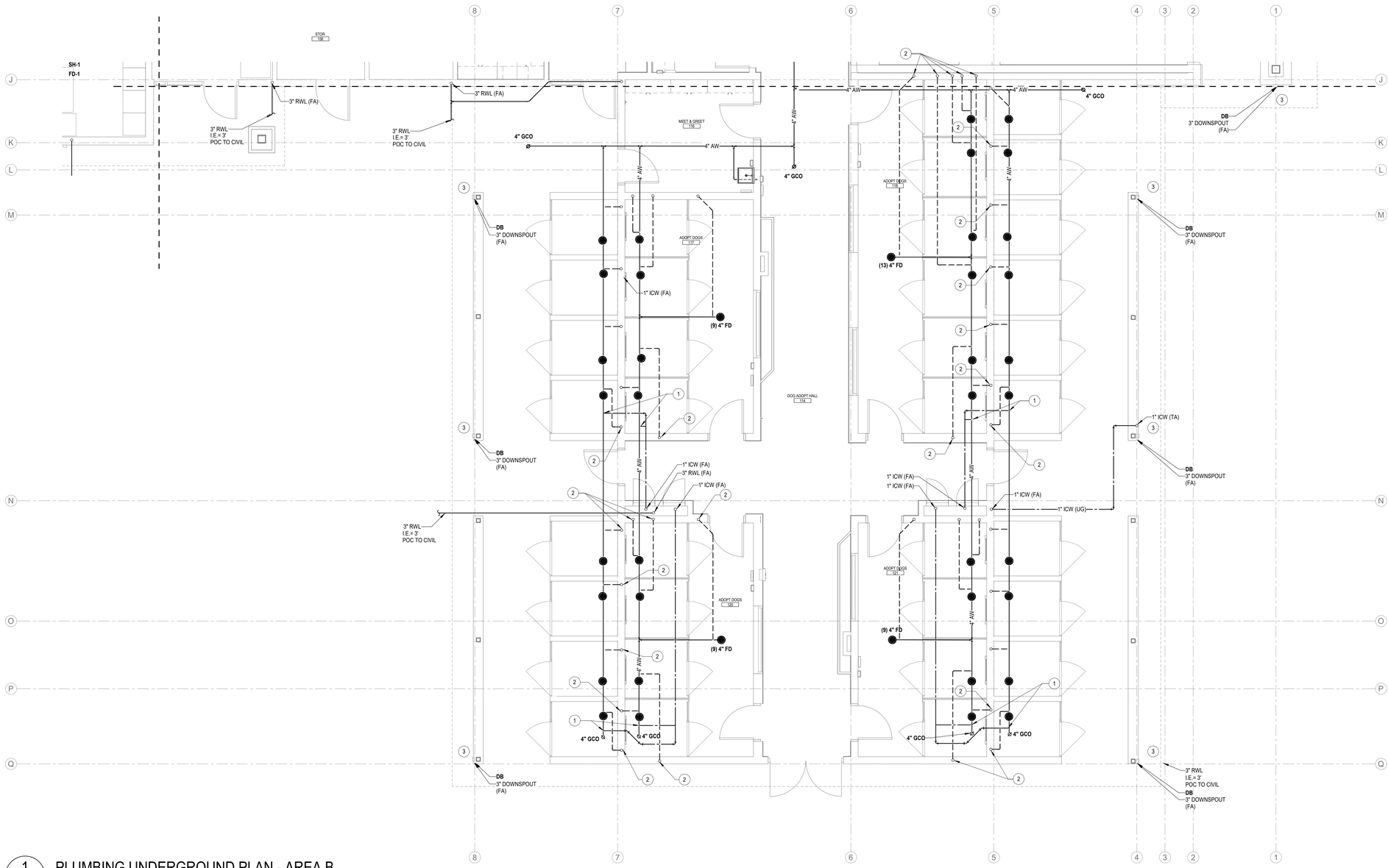

1 P2.11 PLUMBING UNDERGROUND PLAN - AREA B

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

SHEET NOTES:

1. CONTRACTOR TO VERIFY ALL UNDERGROUND PIPES MEET STRUCTURAL REQUIREMENTS WHEN LOCATED THROUGH OR NEAR FOOTINGS, REFER TO DETAIL 1/S106.

KEYNOTES:

1. 1" INDUSTRIAL COLD WATER PIPE BELOW GRADE TO KENNEL DRAINAGE SYSTEM.
2. VENT PIPING FROM ABOVE. SEE FIXTURE SCHEDULE ON P0.03 FOR VENT PIPE SIZING PER FIXTURE.
3. FOR DOWNSPOUT CONTINUATION, SEE SHEET A3.00.

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PLUMBING UNDERGROUND PLAN - AREA B

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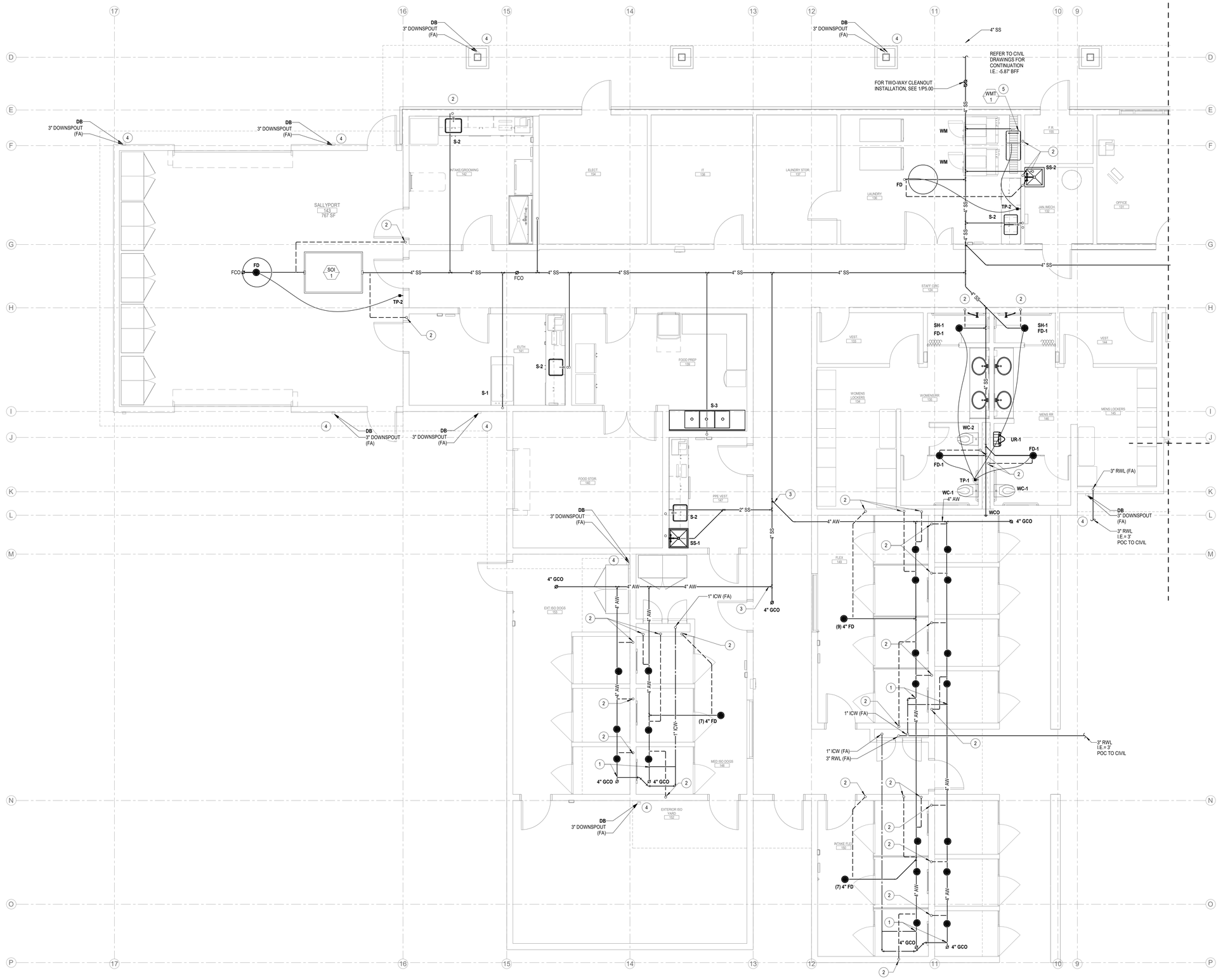

1 PLUMBING UNDERGROUND PLAN - AREA C
P2.12 SCALE: 1/4" = 1'-0"

SHEET NOTES:

1. CONTRACTOR TO VERIFY ALL UNDERGROUND PIPES MEET STRUCTURAL REQUIREMENTS WHEN LOCATED THROUGH OR NEAR FOOTINGS, REFER TO DETAIL 1/S106.

KEYNOTES:

1. 1" INDUSTRIAL COLD WATER PIPE BELOW GRADE TO KENNEL DRAINAGE SYSTEM.
2. VENT PIPING TO ABOVE. SEE FIXTURE SCHEDULE ON P0.03 FOR VENT PIPE SIZING PER FIXTURE.
3. CONNECT ACID WASTE PIPE TO SANITARY SEWER SYSTEM PER REQUIREMENTS OF SPECIFICATION 221000.
4. FOR DOWNSPOUT CONTINUATION, SEE SHEET A3.00.
5. REFER TO DETAIL 8/P5.00 FOR DRAIN CONNECTIONS TO WASHING MACHINE TROUGH.

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PLUMBING UNDERGROUND PLAN - AREA C

P2.12

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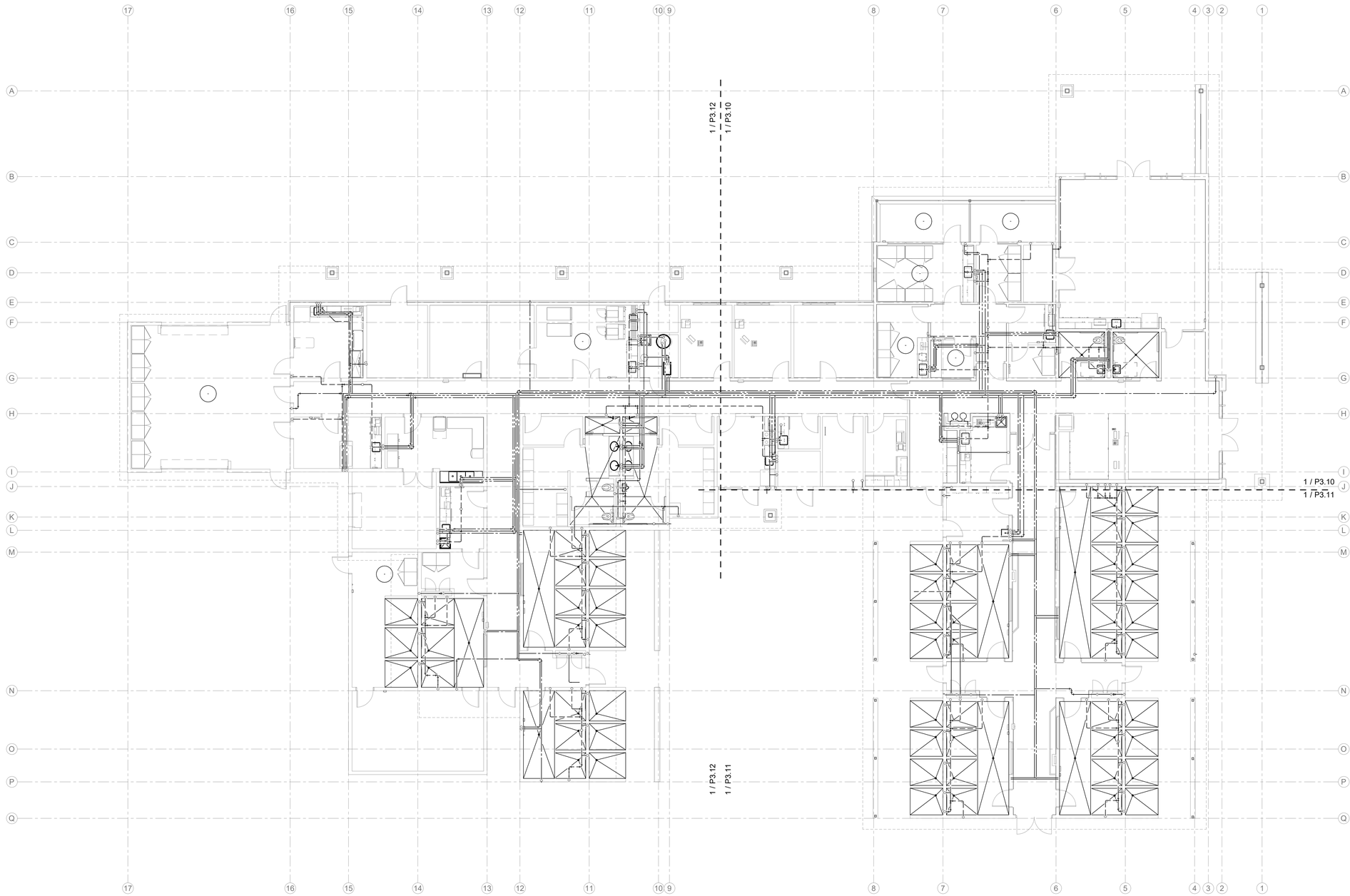

1 P3.00 OVERALL PLUMBING FLOOR PLAN

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

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OVERALL PLUMBING FLOOR PLAN

P3.00

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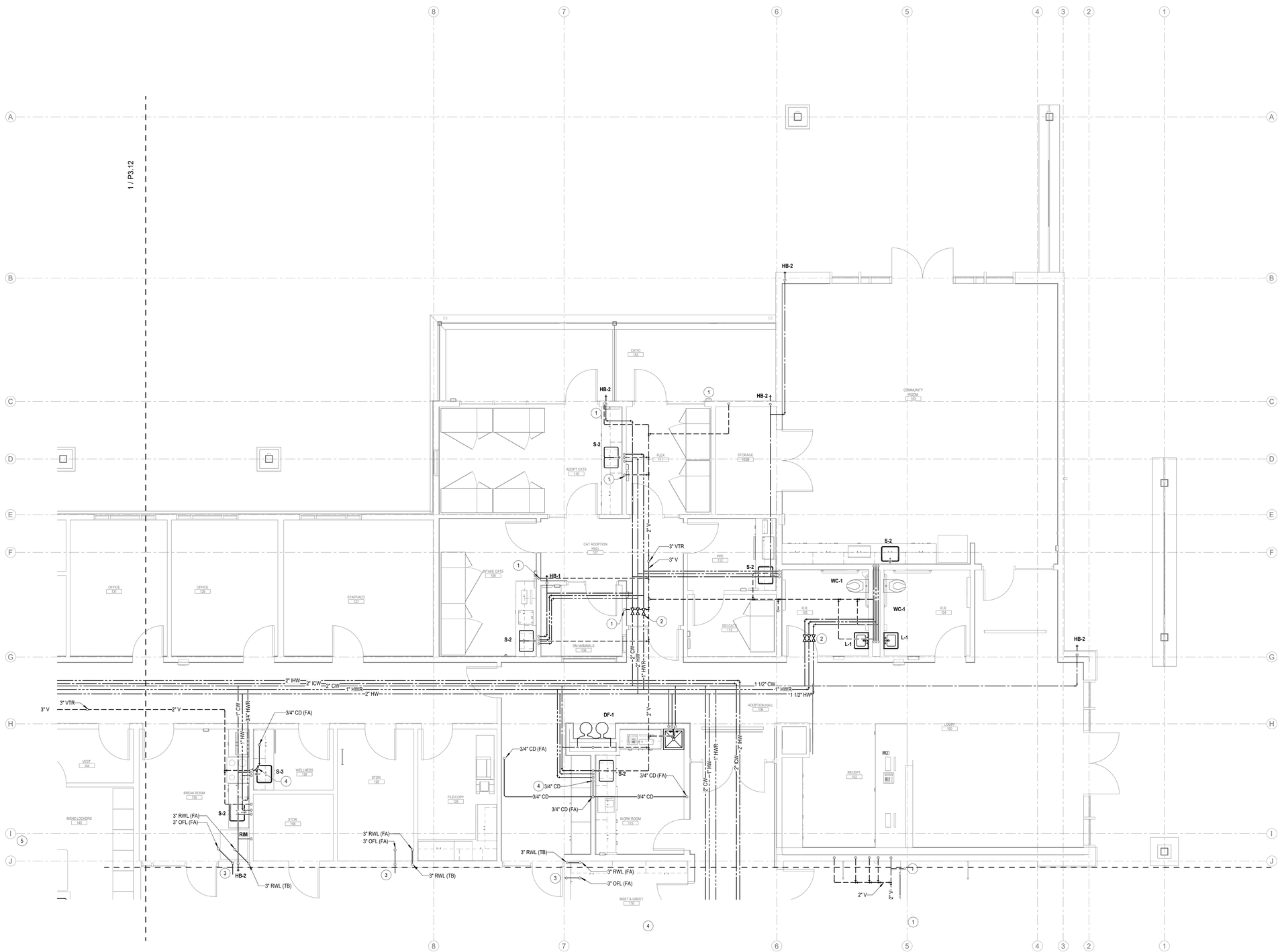

1 / P3.10 PLUMBING FLOOR PLAN - AREA A

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

KEYNOTES:

1. VENT PIPING FROM BELOW. SEE FIXTURE SCHEDULE ON P0.03 FOR VENT PIPE SIZING PER FIXTURE.
2. PROVIDE LINE-SIZE SHUT-OFF VALVE(S). WHERE LOCATED ABOVE HARD-LID CEILINGS, PROVIDE WITH CEILING ACCESS PANEL.
3. DOWNSPOUT NOZZLE, SEE DETAIL 4/P5.00.
4. DISCHARGE CONDENSATE DRAIN TO SINK TAILPIECE OR APPROVED RECEPTOR PER DETAIL 7/P5.00.

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PLUMBING FLOOR PLAN - AREA A

P3.10

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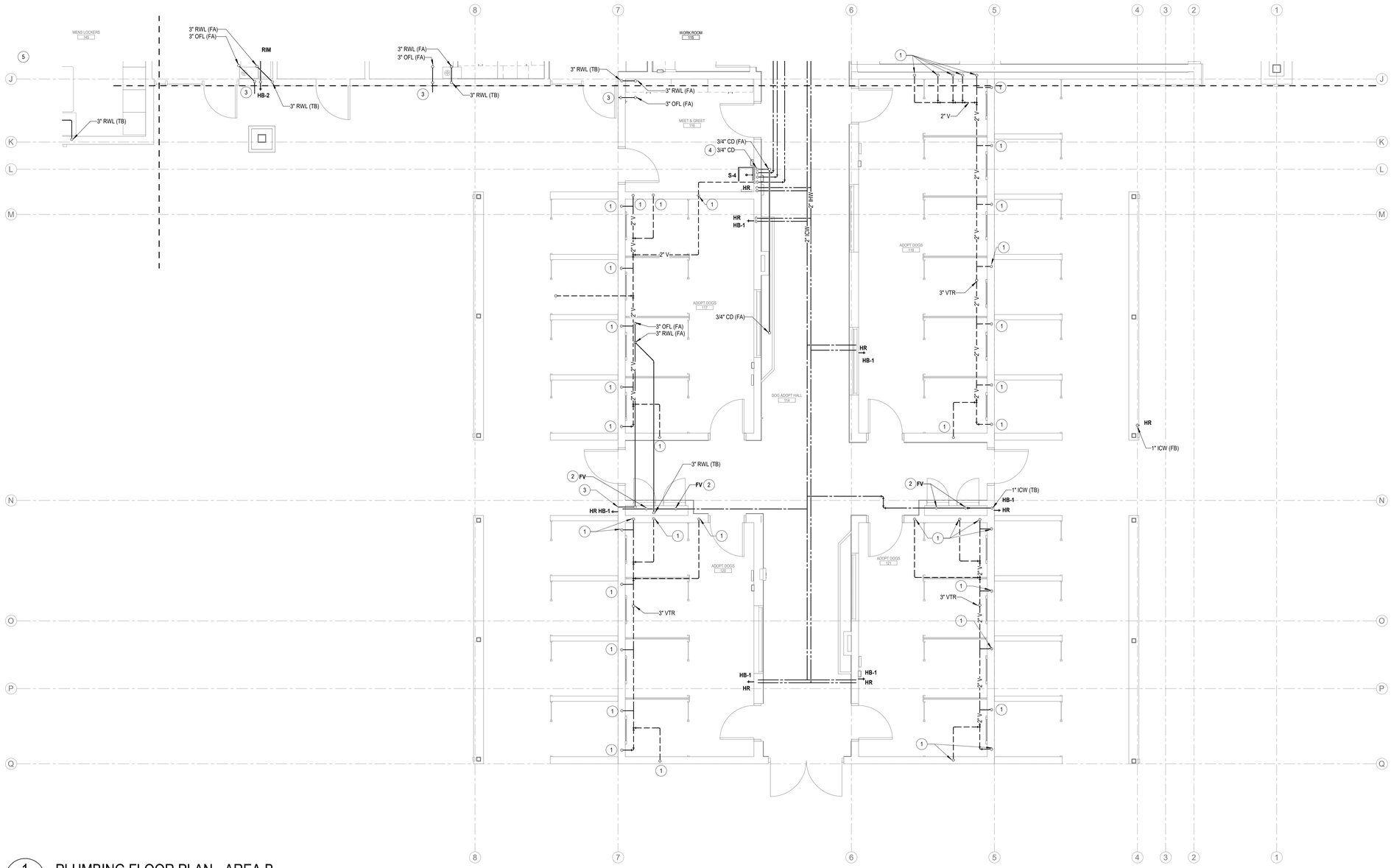

1 P3.11 PLUMBING FLOOR PLAN - AREA B

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

KEYNOTES:

1. VENT PIPING FROM BELOW. SEE FIXTURE SCHEDULE ON P0.03 FOR VENT PIPE SIZING PER FIXTURE.
2. 1" INDUSTRIAL COLD WATER PIPE DOWN TO **FV** AT ACCESSIBLE HEIGHT AND THEN CONTINUING BELOW GRADE TO KENNEL DRAINAGE SYSTEM.
3. DOWNSPOUT NOZZLE, SEE DETAIL 4/P5.00.
4. DISCHARGE CONDENSATE DRAIN TO SINK TAILPIECE OR APPROVED RECEPTOR PER DETAIL 7/P5.00.

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PLUMBING FLOOR PLAN - AREA B

P3.11

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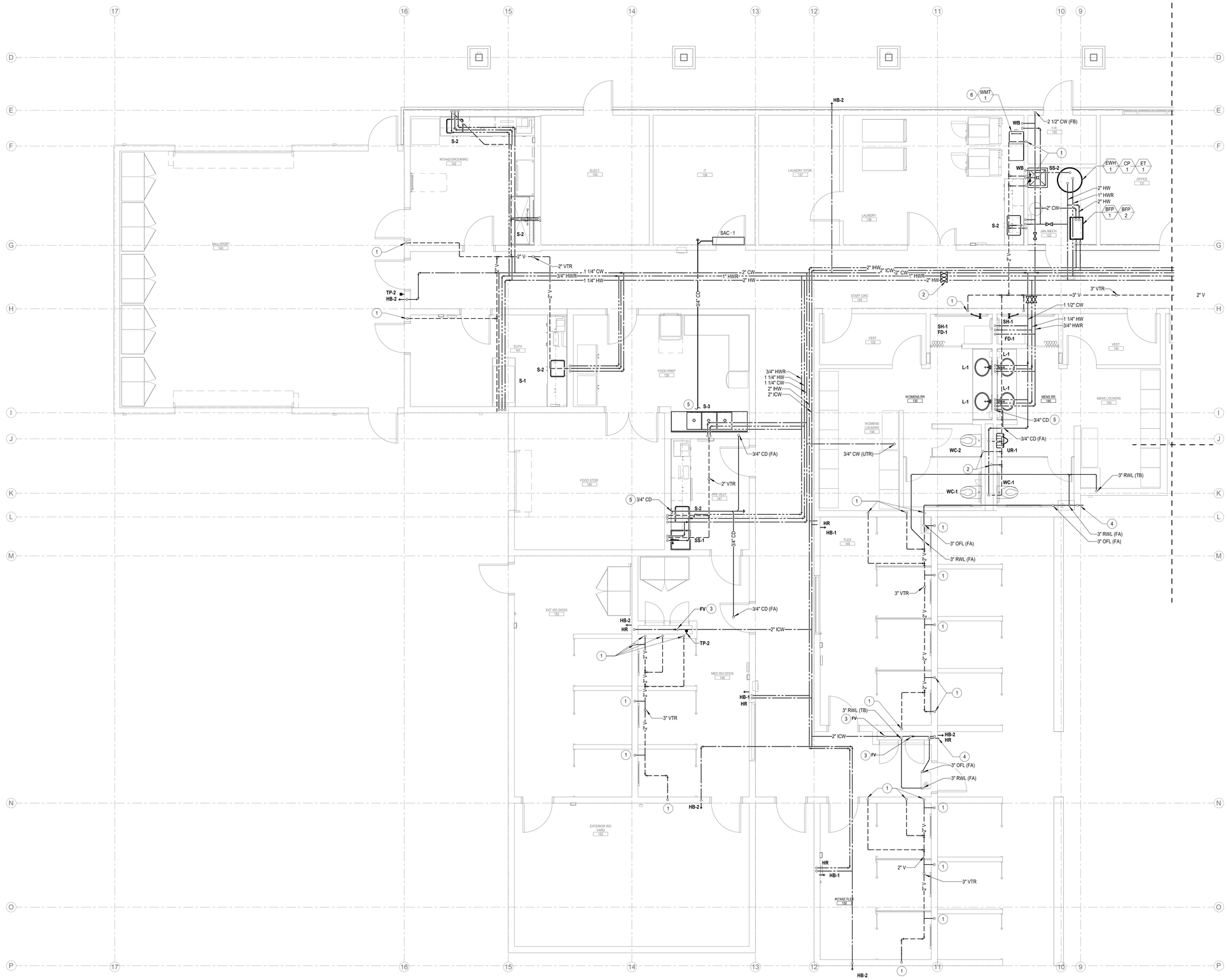

KEYNOTES:

1. VENT PIPING FROM BELOW. SEE FIXTURE SCHEDULE ON P0.03 FOR VENT PIPE SIZING PER FIXTURE.
2. PROVIDE LINE-SIZE SHUT-OFF VALVE(S). WHERE LOCATED ABOVE HARD-LID CEILINGS, PROVIDE WITH CEILING ACCESS PANEL.
3. 1" INDUSTRIAL COLD WATER PIPE DOWN TO **FV** AT ACCESSIBLE HEIGHT AND THEN CONTINUING BELOW GRADE TO KENNEL DRAINAGE SYSTEM.
4. DOWNSPOUT NOZZLE. SEE DETAIL 4/P5.00.
5. DISCHARGE CONDENSATE DRAIN TO SINK TAILPIECE OR APPROVED RECEPTOR PER DETAIL 7/P5.00.
6. REFER TO DETAIL 8/P5.00 FOR DRAIN CONNECTIONS TO WASHING MACHINE TROUGH.

1 P3.12 PLUMBING FLOOR PLAN - AREA C

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

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PLUMBING FLOOR PLAN - AREA C

P3.12

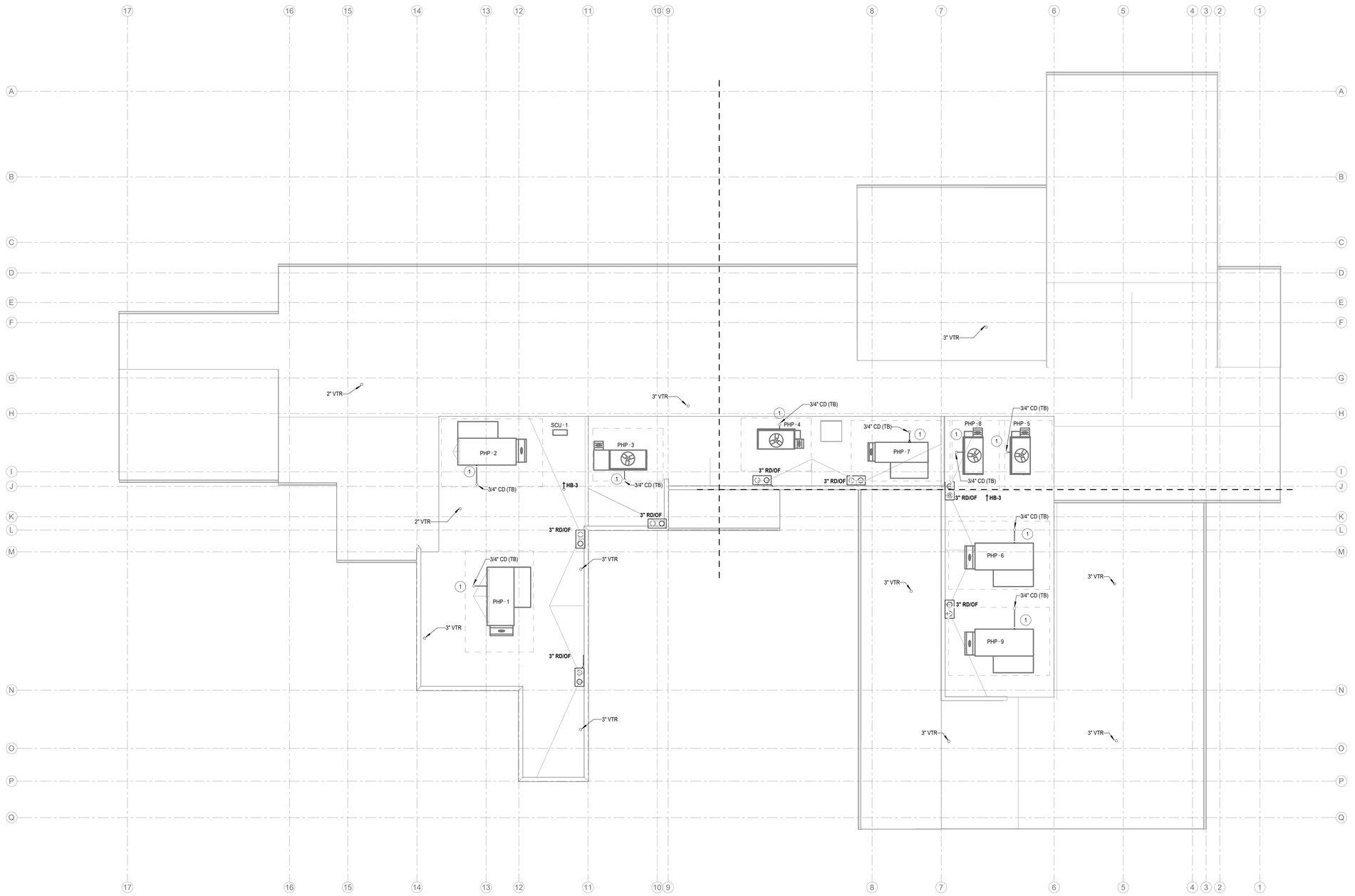
6/17/2026 9:50:15 AM

SHEET NOTES:

1. CONDENSATE PIPE MOUNTING ON ROOF. SEE DETAIL 3/P5.00.

KEYNOTES:

(1) CD PIPING FROM PACKAGE HEAT PUMP. SEE DETAIL 2/P5.01.



1 P4.00 OVERALL PLUMBING ROOF PLAN

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

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Key Plan:

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OVERALL PLUMBING ROOF PLAN

P4.00

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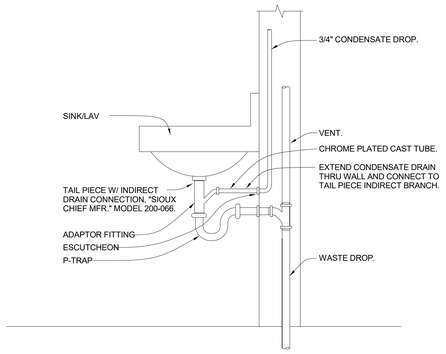
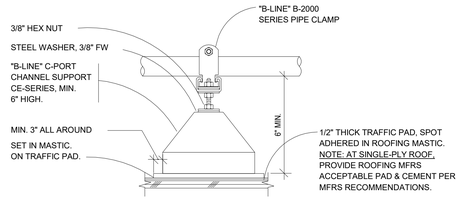


CONDENSATE DRAIN TO SINK/LAV

SCALE : NONE

7 P5.00



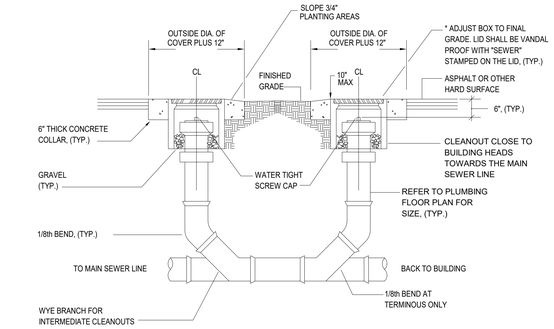
CONDENSATE SUPPORT

2016 CPC TABLE 1210.2.4.1 SUPPORT OF PIPING		NFPA 54/7.2.5.1 TABLE 7.2.5.2 SUPPORT OF PIPING	
STEEL PIPE, NOMINAL SIZE OF PIPE (IN.)	SPACING OF SUPPORTS (FT.)	NOMINAL SIZE OF TUBING SMOOTH-WALL (IN. O.D.)	SPACING OF SUPPORTS (FT.)
1/2	6	1/2	4
3/4 OR 1	8	5/8 OR 3/4	6
1 1/4 OR LARGER (HORZ.)	10	7/8 OR 1 (HORZ.)	8

CD PIPE ON ROOF MOUNTING DETAIL

SCALE : NONE

3 P5.00

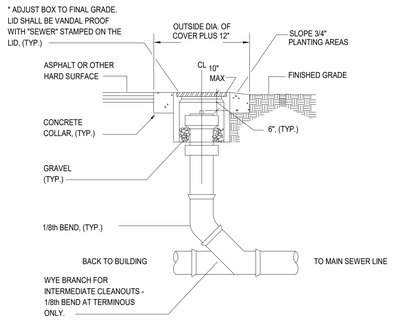


* PAVED AREAS: "CHRISTY CONCRETE/OLD CASTLE PRECAST", MODEL G8 TRAFFIC VALVE BOX

* LANDSCAPED AREAS: "CHRISTY CONCRETE/OLD CASTLE PRECAST", MODEL F8 CURB VALVE BOX WITH EXTENSION

NOTE: TWO-WAY CLEANOUTS SHALL BE PROVIDED (AND PLACED) IN STRICT COMPLIANCE WITH THE 2016 CPC - AT EXIT POINTS OF BUILDINGS AND AT 100 FT. INTERVALS FOR EXTERIOR/SITE SANITARY SEWER MAINS.

TWO-WAY CLEANOUT

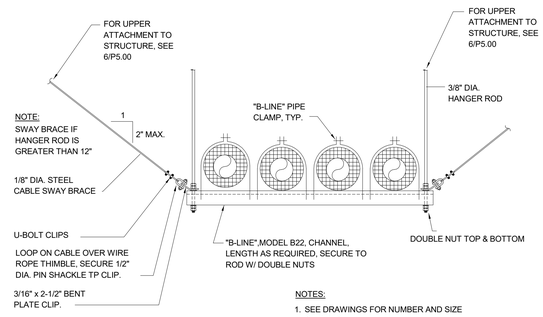


* PAVED AREAS: CHRISTY G8 TRAFFIC VALVE BOX

* LANDSCAPED AREAS: CHRISTY F8 CURB VALVE BOX WITH EXTENSION

NOTE: SINGLE/INDIVIDUAL CLEANOUTS SHALL BE PROVIDED (AND PLACED) IN STRICT COMPLIANCE WITH THE 2016 CPC - AT UPPER TERMINALS/END OF SEWER MAINS, ON BRANCH LINES IN EXCESS OF 5FT. AND AT 50 FT. INTERVALS (INTERIOR TO THE SPACE) PER DIVISION 22 SPECIFICATIONS.

SINGLE CLEANOUT



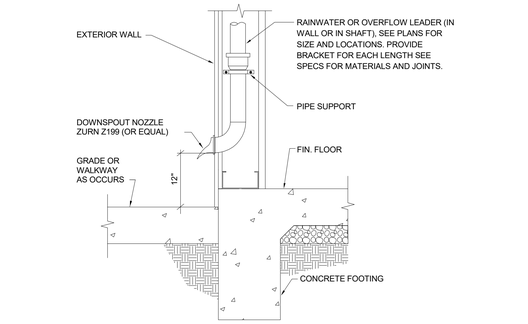
NOTES:

1. SEE DRAWINGS FOR NUMBER AND SIZE OF PIPES.
2. PIPE SUPPORT TO BE AT 5'-0" O.C.

PIPE HANGER DETAIL

SCALE : NONE

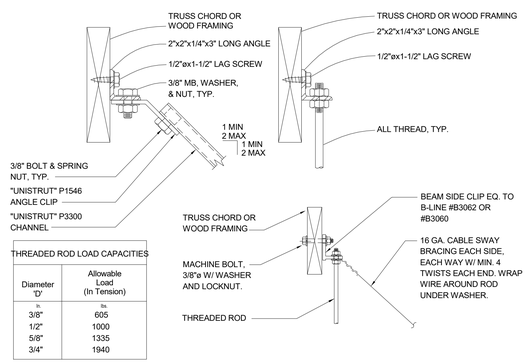
5 P5.00



RWL/OFL DOWNSPOUT

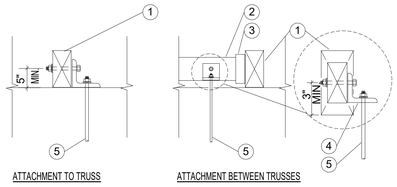
SCALE : NONE

4 P5.00



THREADED ROD LOAD CAPACITIES

Diameter "D"	Allowable Load (In Tension)
in.	lbs.
3/8"	605
1/2"	1000
5/8"	1335
3/4"	1940



NUMBERED NOTES:

1. WOOD TRUSS CHORD OR WOOD FRAMING
2. 4x4 BLOCKING BETWEEN WOOD CHORDS
3. "SIMPSON" LUS44 HANGER (W/ 10D X 1-1/2" AT 2X FRAMING)
4. L2x2x1/4x3" LONG W/ 3/8" DIA THRU BOLT
5. HANGER ROD

UPPER ATTACHMENT DETAILS

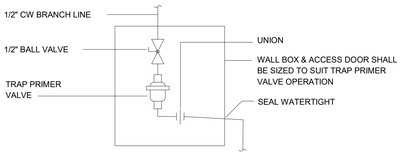
SCALE : NONE

6 P5.00

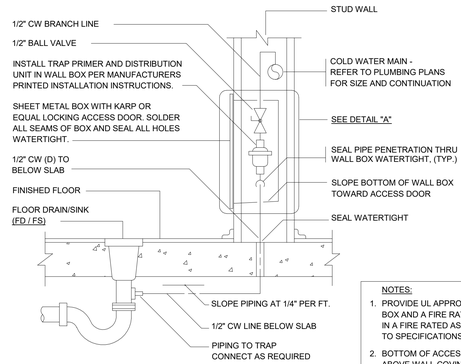
CLEANOUT DETAILS

SCALE : NONE

1 P5.00

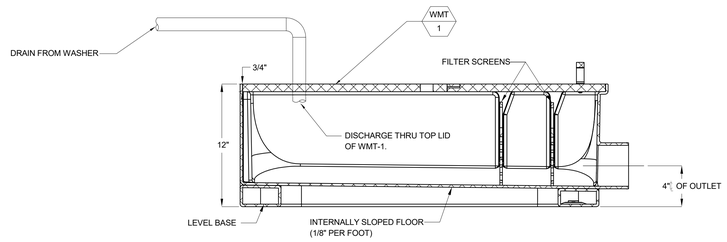


DETAIL "A"



NOTES:

1. PROVIDE UL APPROVED FIRE WRAP AROUND SHEET METAL BOX AND A FIRE RATED ACCESS DOOR WHEN INSTALLED IN A FIRE RATED ASSEMBLY. FOR CONTINUATION REFER TO SPECIFICATIONS SECTION 22 00 50.
2. BOTTOM OF ACCESS DOOR SHALL BE A MINIMUM OF 6" ABOVE WALL COVING.
3. CONFIRM FINAL LOCATION OF TRAP PRIMER WITH THE PROJECT ARCHITECT AND SHOW IN ELEVATION OF FINAL COORDINATION DRAWINGS.



WASHING MACHINE TROUGH DETAIL

SCALE : NONE

8 P5.00

TRAP PRIMER TO FLOOR DRAIN

SCALE : NONE

2 P5.00

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

Consultant:
Capital Engineering Consultants, Inc.
11020 Sun Center Dr,
Rancho Cordova, CA 95670
916.851.3500
www.capital-engineering.com

REGISTERED PROFESSIONAL ENGINEER ANTHONY C. MACHA M 29743 EXPIRES 6/30/26 MECHANICAL STATE OF CALIFORNIA

DATE SIGNED: 6/18/2026

capital engineering
RANCHO CORDOVA, CALIFORNIA

JH - AL/KD PM - DESIGN TEAM | 220663.99 PROJECT NO.

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA 95330

Key Plan:

Project No.: ###-#-##
Drawn By: Author
Checked By: Checker

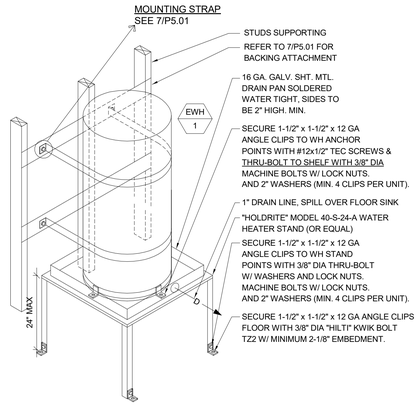
No.	Description	Date	By

BID SET
6/23/26

PLUMBING DETAILS

P5.00

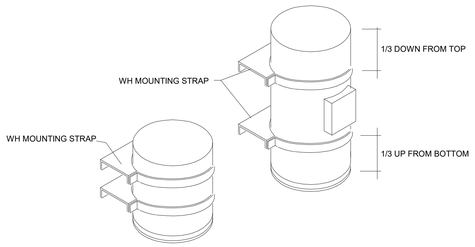
6/1/2026 3:05:15 PM



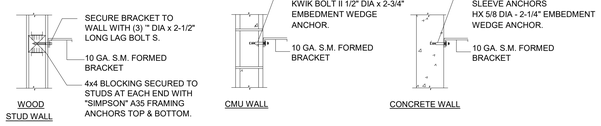
WATER HEATER MOUNTING

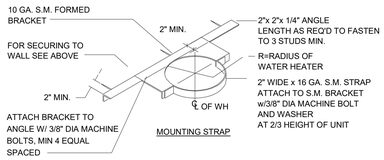
SCALE : NONE

6 P5.01



20 GAL OR LARGER - FLOOR INSTALLATION





WATER HEATER SUPPORT

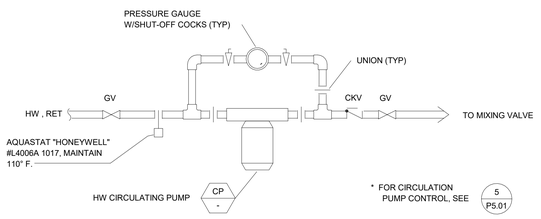
SCALE : NONE

7 P5.01

NOT USED

SCALE : NONE

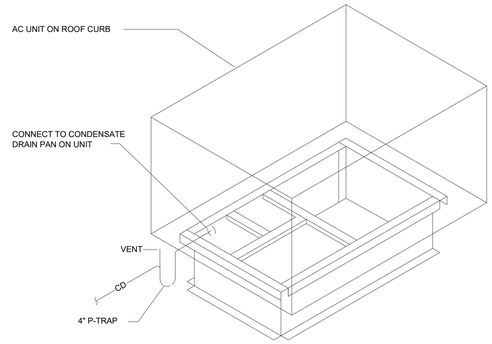
5 P5.01



HW CIRCULATING PUMP DIAGRAM

SCALE : NONE

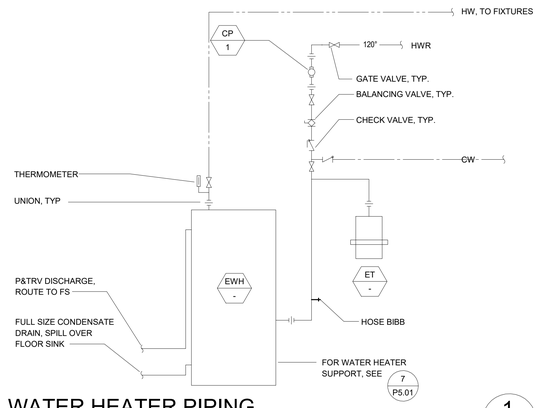
4 P5.01



PHP UNIT PIPING

SCALE : NONE

2 P5.01



WATER HEATER PIPING

SCALE : NONE

1 P5.01

Architect:
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Designers & Architects
222 Central Court
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REGISTERED PROFESSIONAL ENGINEER
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M 29743
EXPIRES 6/30/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 6/18/2026

capital engineering
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JH - AL/KD — PM - DESIGN TEAM
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Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/26

PLUMBING DETAILS

P5.01

E:\170026 9:50:17 AM

BUILDING DATA

PROJECT OWNER: CITY OF LATHROP

PROJECT DESCRIPTION: DEFERRED APPROVAL TO INSTALL NEW WET PIPE SPRINKLER SYSTEM.

OCCUPANCY GROUP: TYPE B

CONSTRUCTION TYPE: TYPE 5-B SPRINKLED
STRUCTURAL FRAME: 0 HOURS
INTERIOR NON-BEARING PARTITION 0 HOURS
FLOORS AND ROOF: 0 HOURS

GROSS FLOOR AREAS: 13,700 SF

SPRINKLER DESIGN CRITERIA: OPEN SPACES, RESTROOMS, LOBBY

CLASSIFICATION OF OCCUPANCY: LIGHT HAZARD
DESIGN DENSITY: 0.10 GPM/ SQ.FT.
DESIGN AREA MIN.: 1,500 SQ.FT.
AREA OF COVERAGE/ SP HEAD: 225 SQ.FT. MAX/ HEAD

SPRINKLER DESIGN CRITERIA: MECHANICAL, ELECTRICAL, TELECOM, CUSTODIAL, STORAGE ROOMS
CLASSIFICATION OF OCCUPANCY: ORDINARY HAZARD I
DESIGN DENSITY: 0.15 GPM/ SQ.FT.
DESIGN AREA MIN.: 1,500 SQ.FT.
AREA OF COVERAGE/ SP HEAD: 130 SQ.FT. MAX/ HEAD

PARTIAL LIST OF APPLICABLE CODES:

2025 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2025 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS
2025 CALIFORNIA ELECTRIC CODE (CEC), PART 3, TITLE 24 CCR
2017 NATIONAL ELECTRIC CODE AND 2022 CALIFORNIA AMENDMENTS
2025 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2018 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS
2025 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2018 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS
2025 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2025 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2018 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS
2025 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2018 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS
2025 CALIFORNIA GREEN BUILDING STANDARD CODE (CALGreen), PART 11, TITLE 24 CCR
2025 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 2022 CBC PART 2 CH 35)
NOTE: CAL/ OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 04	-	STANDARD FOR INTEGRATED FIRE PROTECTION AND LIFE SAFETY SYSTEM TESTING	2021 EDITION
NFPA 10	-	STANDARD FOR PORTABLE FIRE EXTINGUISHERS	2021 EDITION
NFPA 13	-	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)	2022 EDITION
NFPA 14	-	STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)	2019 EDITION
NFPA 17	-	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 17A	-	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 20	-	STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION	2019 EDITION
NFPA 22	-	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2019 EDITION
NFPA 24	-	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED)	2019 EDITION
NFPA 25	-	STANDARD FOR INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS (CA AMENDED)	2013 EDITION
NFPA 70	-	NATIONAL ELECTRIC CODE (CA AMENDED)	2020 EDITION
NFPA 72	-	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2022 EDITION
NFPA 80	-	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2019 EDITION
NFPA 101	-	LIFE SAFETY CODE	2021 EDITION
NFPA 2001	-	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)	2018 EDITION
UL 300	-	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 464	-	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 EDITION
UL 521	-	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL 1971-		STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 (R2010)
ICC 300 -		STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS	2017 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80

SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS

SPRINKLER SYSTEM DESIGN BASIS

BASIS OF DESIGN - SUPPLY PRESSURE

STATIC PRESSURE AVAILABLE	XXX PSI
RESIDUAL PRESSURE AVAILABLE @ XXX GPM	XXX PSI
ALLOWABLE BFP & SERVICE PRESSURE LOSSES	10 PSI

NOTE: CONTRACTOR SHALL OBTAIN FIRE FLOW AND PRESSURE TEST DATED WITHIN 6 MONTHS OF PERMIT SUBMITTAL.

DESIGN WATER DEMAND
BASIS OF DESIGN SPRINKLER FLOW BASED ON DENSITY/ AREA CURVES OF 2022 NFPA 13 - FIGURE 19.2.3.1.1:

LIGHT HAZARD OCCUPANCIES:

MINIMUM CALCULATED AREA =	1500 SF
MINIMUM DENSITY (GPM/SF) =	.10 GPM
HOSE STREAM ALLOWANCE =	100 GPM
TOTAL MINIMUM WATER DEMAND =	350 GPM

ORDINARY HAZARD I OCCUPANCIES:

MINIMUM CALCULATED AREA =	1500 SF
MINIMUM DENSITY (GPM/SF) =	.15 GPM
HOSE STREAM ALLOWANCE =	250 GPM
TOTAL MINIMUM WATER DEMAND =	575 GPM

ORDINARY HAZARD II OCCUPANCIES:

MINIMUM CALCULATED AREA =	1500 SF
MINIMUM DENSITY (GPM/SF) =	.20 GPM
HOSE STREAM ALLOWANCE =	250 GPM
TOTAL MINIMUM WATER DEMAND =	650 GPM

EXTRA HAZARD I OCCUPANCIES:

MINIMUM CALCULATED AREA =	2500 SF
MINIMUM DENSITY (GPM/SF) =	.30 GPM
HOSE STREAM ALLOWANCE =	500 GPM
TOTAL MINIMUM WATER DEMAND =	1300 GPM

EXTRA HAZARD II OCCUPANCIES:

MINIMUM CALCULATED AREA =	2500 SF
MINIMUM DENSITY (GPM/SF) =	.40 GPM
HOSE STREAM ALLOWANCE =	500 GPM
TOTAL MINIMUM WATER DEMAND =	1600 GPM

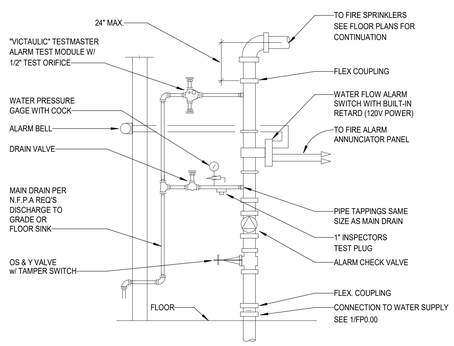
NOTES:
1. SLOPED CEILINGS OVER 2/ 12 SHALL HAVE INCREASED MINIMUM CALCULATED AREAS
2. NO AREA REDUCTIONS ALLOWED BY NFPA 13 MAY BE USED UNLESS OTHERWISE ALLOWED BY THE EEOR AND/ OR THE OWNER.
3. HIGH PILE STORAGE AREAS WITH ROOF EXCEEDING 2/ 12 SHALL REQUIRE SPECIALIZED REQUIREMENTS THAT SHALL BE DETERMINED BY A LICENSED FIRE PROTECTION ENGINEER.

ATTACHMENT & SEISMIC BRACING PROJECT NOTES

1. THE STRUCTURAL ENGINEER OF RECORD SHALL ENSURE THE ADEQUACY OF THE BUILDING STRUCTURE TO SUPPORT THE HANGER AND BRACING LOADS.
2. THE INSTALLING CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF ASCE 7-16 SECTION 13.3 AS DEFINED IN SECTIONS 13.6.5.6, 13.6.7, 13.6.8, 2022 CBC SECTIONS 1617A.1.20, A1615A.1.21, 1615A.1.22, AND NFPA 13 (2022) CHAPTER 18 INSTALLATION REQUIREMENTS FOR SEISMIC PROTECTION, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   - A. SEC. 18.5 SWAY BRACING
     - a. SEC. 18.5.1 GENERAL:
       - SEC. 18.5.1.3 HORIZONTAL LOADS ON SYSTEM PIPING SHALL BE DETERMINED IN ACCORDANCE WITH SEC. 18.5.9.
     - b. SEC. 18.5.2 LISTING
       - SEC. 18.5.2.1 SWAY BRACING ASSEMBLIES SHALL BE LISTED FOR A MAXIMUM LOAD RATING, UNLESS THE REQUIREMENTS OF 18.5.2.2 ARE MET.
       - SEC. 18.5.2.2.1 BRACING FITTINGS AND CONNECTIONS USED WITH THOSE SPECIFIC MATERIALS SHALL BE LISTED.
       - SEC. 18.5.2.3 THE LISTED LOAD RATING SHALL BE REDUCED AS SHOWN IN TABLE 18.5.2.3 TO DETERMINE THE ALLOWABLE LOAD FOR INSTALLATIONS WHERE THE BRACE IS LESS THAN 90 DEGREES FROM VERTICAL.
     - c. SEC. 18.5.5 LATERAL SWAY BRACING
       - SEC. 18.5.5.1 LATERAL SWAY BRACING SHALL BE PROVIDED ON ALL FEED AND CROSS MAINS REGARDLESS OF SIZE AND ALL BRANCH LINES AND OTHER PIPING WITH A DIAMETER OF 2-1/2" AND LARGER.
       - SEC. 18.5.5.1.1. WHERE BRANCH LINES ARE NOT PROVIDED WITH LATERAL SWAY BRACING, THEY SHALL BE PROVIDED WITH RESTRAINT IN ACCORDANCE WITH SEC. 18.6.
       - SEC. 18.5.5.2.2 SPACING SHALL NOT EXCEED A MAXIMUM INTERVAL OF 40FT ON CENTER.
       - SEC. 18.5.5.4 THE REQUIREMENTS OF 18.5.5.1 SHALL NOT APPLY TO 2-1/2" STARTER PIECES THAT DO NOT EXCEED 12FT IN LENGTH.
       - SEC. 18.5.5.5 THE DISTANCE BETWEEN THE LAST BRACE AND THE END OF THE PIPE SHALL NOT EXCEED 6FT.
       - SEC. 18.5.5.10 THE LATERAL SWAY BRACING REQUIRED BY 18.5.5 SHALL BE PERMITTED TO BE OMITTED WHEN 18.5.5.10.1 FOR BRANCH LINES OR 18.5.5.10.2 FOR MAINS IS MET.
     - d. SEC. 18.5.6 LONGITUDINAL SWAY BRACING
       - SEC. 18.5.6.1 LONGITUDINAL SWAY BRACING SPACED AT A MAXIMUM OF 80 FT ON CENTER SHALL BE PROVIDED FOR FEED AND CROSS MAINS.
       - SEC. 18.5.6.4 THE DISTANCE BETWEEN THE LAST BRACE AND THE END OF THE PIPE OR A CHANGE IN DIRECTION SHALL NOT EXCEED 40 FT.
     - e. SEC. 18.5.8 SWAY BRACING OF RISERS
       - SEC. 18.5.8.1 TOPS OF RISERS EXCEEDING 36 IN IN LENGTH SHALL BE PROVIDED WITH A FOUR-WAY BRACE LOCATED ON THE TOPMOST SECTION OF VERTICAL PIPING, BUT NOT MORE THAN 24 IN BELOW THE TOP COUPLING.
       - SEC. 18.5.8.4 DISTANCE BETWEEN FOUR-WAY BRACES FOR RISERS SHALL NOT EXCEED 25 FT.
   - B. SEC. 18.6 RESTRAINT OF BRANCH LINES
     - a. 18.6.1 RESTRAINT IS CONSIDERED A LESSER DEGREE OF RESISTING LOADS THAN BRACING AND SHALL BE PROVIDED BY USE OF ONE OF THE FOLLOWING:
       - LISTED SWAY BRACE ASSEMBLY
       - WRAPAROUND U-HOOK SATISFYING THE REQUIREMENTS OF 18.5.5.11
       - NO. 12 440 LB WIRE INSTALLED AT LEAST 45 DEGREES FROM VERTICAL PLANE AND ANCHORED ON BOTH SIDES OF THE PIPE
       - HANGER NOT LESS THAN 45 DEGREES FROM VERTICAL INSTALLED WITHIN 6 IN OF THE VERTICAL HANGER ARRANGED FOR RESTRAINT AGAINST UPWARD MOVEMENT, PROVIDED IT IS UTILIZED SUCH THAT L/R DOES NOT EXCEED 400, WHERE THE ROD EXTENDS TO THE PIPE OR A SURGE CLIP HAS BEEN INSTALLED
       - OTHER APPROVED MEANS
     - b. SEC. 18.6.3. THE END SPRINKLER ON A BRANCH LINE SHALL BE RESTRAINED.
       - SEC. 18.6.3.1 THE LOCATION OF THE RESTRAINT FROM END OF THE LINE SHALL NOT BE GREATER THAN 36" FOR 1" PIPE, 48" FOR 1-1/4" PIPE, AND 60" FOR 1-1/2" OR LARGER PIPE.
     - c. SEC. 18.6.5 WHERE THE BRANCH LINES ARE SUPPORTED BY RODS LESS THAN 6IN LONG MEASURED BETWEEN THE TOP OF PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE, THE REQUIREMENTS OF 18.6.1 THROUGH 18.6.4 SHALL NOT APPLY AND ADDITIONAL RESTRAINT SHALL NOT BE REQUIRED FOR THE BRANCH LINES.
     - d. SEC. 18.6.7 DROPS AND ARMOVERS SHALL NOT REQUIRE RESTRAINT.
3. INSTALLING CONTRACTOR MAY UTILIZE PRE APPROVED SEISMIC SYSTEMS PER APPROVED OPM.

ABBREVIATIONS

(E)	EXISTING
(N)	NEW
ABBR	ABBREVIATION
AFF	ABOVE FINISHED FLOOR
AO	ARM OVER
AS	AUTOMATIC SPRINKLER
ASR	AUTOMATIC SPRINKLER RISER
AV	ANGLE VALVE
AFSR	AUTOMATIC FIRE SPRINKLER RISER
BFV	BUTTERFLY VALVE
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DECK
BOJ	BOTTOM OF JOIST
CV	CHECK VALVE
CI	CAST IRON
COE	CHANGE OF ELEVATION
COUP	COUPLING
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DI	DUCTILE IRON
DN	DOWN
DR	DROP
EOR	ENGINEER OF RECORD
EQB	EARTHQUAKE BRACE
FACP	FIRE ALARM CONTROL PANEL
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FLG	FLANGE
GV	GLOBE VALVE
HGR	HANGER
IBR	IN BUILDING RISER (AMES)
IOR	INSPECTOR OF RECORD
JST	JOIST
LVL	LEVEL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PI	POST INDICATOR
PIV	POST INDICATOR VALVE
POC	POINT OF CONNECTION
PVC	POLYVINYL CHLORIDE
RN	RISER NIPPLE
SSP	STANDARD SPRAY PENDANT
SSU	STANDARD SPRAY UPRIGHT
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE



1 / FP0.01 WET PIPE FIRE SPRINKLER RISER
SCALE: 12" = 1'-0"

FIRE PROTECTION PROJECT NOTES

1. DEFERRAL OF THE FIRE PROTECTION SYSTEM DESIGN SHALL HAVE THE PRIOR APPROVAL OF THE AHJ. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL LIST THE DEFERRED SUBMITTALS ON THE CONSTRUCTION DOCUMENTS FOR REVIEW BY THE AHJ.
   - A. DEFERRED SUBMITTALS FOR THE PERMIT SHALL BE SUBMITTED BY GENERAL CONTRACTOR FOR FIRE SPRINKLER SYSTEMS INCLUDING ANY MECHANICAL, ELECTRICAL, AND PLUMBING MODIFICATIONS TO ACCOMMODATE THE FIRE SPRINKLER SYSTEMS.
   - B. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING LICENSED PROFESSIONALS AS REQUIRED TO DESIGN AND CONSTRUCT THE SYSTEMS INCLUDING PROVIDING SERVICES FOR THE PREPARATION OF DRAWINGS NECESSARY TO OBTAIN A REVIEW AND PERMIT APPROVAL FROM THE AUTHORITY HAVING JURISDICTION OVER THE PROJECT.
   - C. SUBMITTAL SHALL INCLUDE COMPLETE HYDRAULIC CALCULATIONS AND CUTSHEETS FOR MATERIALS AND PRODUCTS USED IN THE SYSTEM. REFER TO SPECIFICATIONS SECTION 21 10 00 FOR DELEGATED DESIGN REQUIREMENT DETAILS.
2. A LICENSED (C-16) CONTRACTOR SHALL ROUTE AND SUPPORT AUTOMATIC SPRINKLER SYSTEM PER REQUIREMENTS OF NFPA 13 (2022), CBC CHAPTER 9, NFPA 25 (2013) AND OTHER APPLICABLE CODES PER AHJ.
3. INSTALLATION OF THE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS (INCLUDING WATER SUPPLY INFORMATION) HAVE BEEN APPROVED BY THE AHJ AND OR LOCAL FIRE MARSHALL. A STAMPED SET OF APPROVED DRAWINGS SHALL BE ON SITE AND USED FOR INSTALLATION. DEVIATIONS FROM THE APPROVED PLANS, INCLUDING THE SUBSTITUTION OF COMPONENTS SHALL BE APPROVED BY THE AHJ, AS OUTLINED IN SPECIFICATION SECTION 210500. FAILURE TO COMPLY MAY RESULT IN A STOP WORK ORDER.
4. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED ON THE DRAWINGS OR ACCEPTED BY THE ARCHITECT WITH THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
5. ALL DEVICES AND COMPONENTS TO BE EITHER LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY OR APPROVED BY THE AUTHORITY HAVING JURISDICTION.
6. ITEMS SHOWN ON PLANS DESCRIBE GENERAL LAYOUT REQUIREMENTS, AND ARE NOT INTENDED TO SHOW A COMPLETE LAYOUT OF REQUIRED FIRE PROTECTION SYSTEM PIPING AND COMPONENTS. REFER TO ARCHITECTURAL, MECHANICAL AND PLUMBING SHEETS, FIRE PROTECTION SPECIFICATIONS, AS WELL AS OTHER PORTIONS OF THE CONTRACT DOCUMENTS FOR ADDITIONAL COORDINATION REQUIREMENTS.
7. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED SPRINKLER STANDARD SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.
8. IT IS THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC., REQUIRED TO NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER SPECIFICALLY SHOWN OR MENTIONED. THE ENGINEER WILL GIVE ANY INTERPRETATIONS NECESSARY FOR THE CONTRACTOR TO PROPERLY ESTIMATE THE JOB.
9. IT IS THE CONTRACTORS' RESPONSIBILITY TO PROVIDE TO PROVIDE FABRICATION OR SHOP DRAWINGS. CAD FILES WILL NOT BE PROVIDED WITHOUT A SIGNED RELEASE OF LIABILITY FORM PER SPECIFICATION REQUIREMENTS.
10. THE INSTALLING FIRE SPRINKLER CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR REVIEW AND APPROVAL, COORDINATED SHOP DRAWINGS AND SUPPORTIVE CALCULATIONS FOR ANY / ALL CHANGES TO THE FIRE SPRINKLER SYSTEM LAYOUT SHOWN ON THESE DRAWINGS, AT NO ADDITIONAL COST TO THE OWNER.
11. ALL AREAS OF THE BUILDING NOT COVERED BY NOTES HEREIN SHALL BE FULLY SPRINKLED IN ACCORDANCE WITH SPECIFICATIONS AND NFPA 13.
12. ANY DAMAGE TO NEW BUILDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL SYSTEMS THAT OCCURS DURING THE WORK SHALL BE RESTORED TO THE ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IF LANDSCAPED AREAS INCLUDING NATURAL SPACES MUST BE USED FOR BUILDING ACCESS, THE LANDSCAPING SHALL BE RETURNED TO IT ORIGINAL CONDITION. THE CONTRACTOR SHALL INCLUDE COSTS IN THE BID FOR THIS WORK IF THIS APPROACH IS USED. THE OWNER WILL NOT PAY ANY ADDITIONAL COSTS TO COVER DAMAGE TO THE BUILDING SYSTEMS, LANDSCAPING OR DRIVE AREAS.
13. THE LOCATION OF FIRE SPRINKLER HEADS SHALL BE COORDINATED WITH THE NEW CEILING LAYOUTS AND ALL OTHER TRADES FOR COMPLETE FORE PROTECTION COVERAGE OF ALL AREAS. PROVIDE DETAILED PLANS FOR APPROVAL PRIOR TO INSTALLATION.
14. HEADS SHALL BE SYMMETRICALLY LOCATED IN CENTER OF CEILING PANELS. COORDINATE LAYOUT WITH CEILING OR SOFFIT LIGHT FIXTURES, AND HVAC DIFFUSERS,RETURNS, ETC. PROVIDE PENDENT AND/OR UPRIGHT TYPE SPRINKLER HEAD WHERE REQUIRED.
15. WORKMANSHIP: ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO THE BEST TRADE PRACTICE BY THOSE SKILLED IN THE PARTICULAR TRADE. PIPES, EQUIPMENT, ETC., TO BE INSTALLED LEVEL, SQUARE OR CENTERED, ETC., TO GIVE A NEAT AND PLEASING APPEARANCE. ALL EQUIPMENT IS TO BE INSTALLED STRICTLY PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ALL WORK WITH OTHER TRADES.
16. THE ANNULAR SPACE BETWEEN PIPE SLEEVES AND THE PIPE THROUGH ALL RATED WALLS AND FLOORS SHALL BE FIRESTOPPED. FIRESTOPPING OF ALL PIPE PENETRATIONS OF ALL PIPE PENETRATIONS SHALL COMPLY WITH UL REQUIREMENTS. MANUFACTURER PREAPPROVED UL PENETRATION FOR PIPE MATERIAL AND SURFACE PENETRATED SHALL BE USED. PENETRATIONS SHALL BE 3M, PROSET, OR APPROVED EQUAL. SUBMIT SHOP DRAWINGS.
17. BY OTHERS:
   - A. ELECTRICAL CONTRACTOR: ALL POWER AND ALARM WIRING, CONDUITS, DISCONNECTS, AND FINAL CONNECTIONS. NO FIELD SUPPLIED ELECTRICAL DEVICE SHALL BE MOUNTED ON PIPING AND NO RIGID ELECTRICAL CONNECTIONS SHALL BE MADE.
   - B. GENERAL CONTRACTOR: CUTTING, FRAMING, PATCHING, FURRING, AND PAINTING.
18. ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL FIRE PROTECTION, ELECTRICAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY LEAKS AND/OR BREAKS IN PIPES AND FIXTURES INSTALLED UNDER THIS CONTRACT.
19. ALL PIPING 2 INCHES AND UNDER SHALL BE SCHEDULE 40, BLACK STEEL CONFORMING TO SPECIFICATION REQUIREMENTS.
20. ALL PIPING 2-1/2 INCHES AND ABOVE SHALL BE SCHEDULE 40 OR SCHEDULE 10, BLACK STEEL CONFORMING TO SPECIFICATION REQUIREMENTS.
21. ANY SUBSTITUTION OF FLEXIBLE TYPE PIPING IN LIEU OF RIGID PIPE SHALL NOT BE ALLOWED UNLESS SPECIFICALLY CALLED OUT ON THESE DRAWINGS.
   - A. FLEXIBLE SPRINKLER DROP MANUFACTURER SHALL PROVIDE BRIEF TRAINING TO INSTALLERS ON PROPER INSTALLATION OF THEIR PRODUCT.
22. NFPA 13 (2022) SEC. 18.4.2 CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING EXTENDING THROUGH WALLS, FLOORS, PLATFORMS AND FOUNDATIONS INCLUDING DRAINS SUCH THAT THE DIAMETER OF THE HOLES IS 2 INCHES LARGER THAN THE PIPE. FOR 1 INCH TO 3-1/2 INCH NOMINAL AND 4 INCHES LARGER THAN THE PIPE FOR PIPE 4 INCH AND LARGER.
23. ALL SIGNAGE SHALL COMPLY WITH NFPA 13 (2022) SEC. 6.9 INCLUDING BUT NOT LIMITED TO:
   - A. NFPA 13 (2022) SEC. 29.4.1, 29.4.2 & 29.4.3:
     - a. THE INSTALLING CONTRACTOR SHALL IDENTIFY A HYDRAULICCALLY DESIGNED SYSTEM WITH A PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC SUGN SECURED WITH CORROSION-RESISTANT WIRE, CHAIN, OR OTHER APPROVED MEANS.
     - b. SUCH SIGNS SHALL BE PLACED AT EVERY SYSTEM RISER, FLOOR CONTROL ASSEMBLY, ALARM VALVE, DRY PIPE VALVE, PREACTION VALVE, OR DELUGE VALVE SUPPLYING THE CORRESPONDING HYDRAULICALLY DESIGNED AREA UNLESS THE AHJ APPROVES AN ALTERNATE LOCATION.
     - c. THE SIGN SHALL INCLUDE THE FOLLOWING INFORMATION:
       - LOCATION OF THE DESIGN AREA OR AREAS
       - SIZE (AREA) OF OR NUMBER OF SPRINKLERS IN THE DESIGN AREA
       - DISCHARGE DENSITIES OVER THE DESIGN AREA OR AREAS
       - REQUIRED FLOW AND RESIDUAL PRESSURE DEMAND AT THE BASE OF THE RISER OR FIRE PUMP WHERE APPLICABLE
       - OCCUPANCY CLASSIFICATION OR COMMODITY CLASSIFICATION AND MAXIMUM PERMITTED STORAGE HEIGHT AND CONFIGURATION
       - HOSE STREAM ALLOWANCE INCLUDED IN ADDITION TO THE SPRINKLER DEMAND
       - NAME OF THE INSTALLING CONTRACTOR
   - B. NFPA 13 (2002) SEC. 29.6.1, 29.6.1.1, 29.6.2 & 29.6.3.
     - a. THE INSTALLING CONTRACTOR SHALL PROVIDE A GENERAL INFORMATION SIGN USED TO DETERMINE SYSTEM DESIGN BASIS AND INFORMATION RELEVANT TO THE INSPECTION, TESTING, AND MAINTENANCE REQUIREMENTS REQUIRED BY NFPA-25.
     - b. SUCH GENERAL INFORMATION SHALL BE PROVIDED WITH A PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC SIGN, SECURED WITH CORROSION-RESISTANT WIRE, CHAIN, OR OTHER ACCEPTABLE MEANS.
     - c. SUCH SIGNS SHALL BE PLACED AT EACH SYSTEM CONTROL RISER, ANTIFREEZE LOOP, AND AUXILIARY SYSTEM CONTROL VALVE.
     - d. THE SIGN SHALL INCLUDE THE FOLLOWING INFORMATION:
       - NAME AND LOCATION OF THE FACILITY PROTECTED
       - OCCUPANCY CLASSIFICATION
       - COMMODITY CLASSIFICATION
       - PRESENCE OF HIGH-PILED AND/OR RACK STORAGE
       - MAXIMUM HEIGHT OF STORAGE PLANNED
       - AISLE WIDTH PLANNED
       - ENCAPSULATION OF PALLET LOADS
       - PRESENCE OF SOLID SHELVING
       - FLOW TEST DATA
       - PRESENCE OF FLAMMABLE/COMBUSTIBLE LIQUIDS
       - PRESENCE OF HAZARDOUS MATERIALS
       - PRESENCE OF OTHER SPECIAL STORAGE
       - LOCATION OF VENTING VALVE
       - LOCATION OF AUXILIARY DRAINS AND LOW POINT DRAINS ON DRY PIPE AND PREACTION SYSTEMS
       - ORIGINAL RESULTS OF MAIN DRAIN FLOW TEST
       - ORIGINAL RESULTS OF DRY PIPE AND DOUBLE INTERLOCK PREACTION VALVE TEST
       - NAME OF INSTALLING CONTRACTOR OR DESIGNER
       - INDICATION OF PRESENCE AND LOCATION OF ANTIFREEZE OR OTHER AUXILIARY SYSTEMS
       - WHERE INJECTION SYSTEMS ARE INSTALLED TO TREAT MIC OR CORROSION, THE TYPE OF CHEMICAL, CONCENTRATION OF THE CHEMICAL, AND WHERE INFORMATION CAN BE FOUND AS TO THE PROPER DISPOSAL OF THE CHEMICAL
       - INDICATION OF PRESENCE OF NITROGEN WHERE USED TO ALLOW FOR INCREASED C VALUE IN DRY OR PREACTION SYSTEMS
24. THE FIRE SPRINKLER SYSTEM SHALL BE MONITORED BY AN APPROVED LISTED CENTRAL MONITORING STATION.
25. STOCK OF SPARE SPRINKLER SHALL COMPLY WITH REQUIREMENTS OF NFPA 13 (2022) SEC. 16.2.7 INCLUDING BUT NOT LIMITED TO:
   - A. SEC. 6.2.7.1 A SUPPLY OF AT LEAST SIX SPARE SPRINKLERS SHALL BE MAINTAINED ON THE PREMISES SO THAT ANY SPRINKLERS THAT HAVE OPERATED OR BEEN DAMAGED IN ANY WAY CAN BE PROMPTLY REPLACED.
   - B. SEC. 16.2.7.2 THE SPRINKLERS SHALL CORRESPOND TO THE TYPES AND TEMPERATURE RATINGS OF THE SPRINKLERS IN THE PROPERTY.
   - C. SEC. 16.2.7.3 THE SPRINKLERS SHALL BE KEPT IN A CABINET LOCATED WHERE THE TEMPERATURE TO WHICH THEY ARE SUBJECTED WILL AT NO TIME EXCEED MAXIMUM CEILING TEMPERATURES SPECIFIED IN TABLE 7.2.4.1 FOR EACH OF THE SPRINKLERS WITHIN THE CABINET.
26. INSTALLING CONTRACTOR TO COMPLY WITH NFPA 13 (2022) SEC. 16.16 PROVISIONS FOR FLUSHING SYSTEMS.
27. ALL PIPE PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE PER ARCHITECTURAL PLANS AND/ OR UTILIZING A PRE-APPROVED UL SYSTEM AS REQUIRED PER 2022 CBC SECTION 714.
28. INSTALLING CONTRACTOR SHALL COMPLY WITH NFPA 13 (2022) SEC. 16.7 AIR VENTING; THE VENT REQUIRED BY 8.1.5 SHALL BE LOCATED NEAR A HIGH POINT IN THE SYSTEM TO ALLOW AIR TO BE REMOVED FROM THAT PORTION OF THE SYSTEM BY ONE OF THE FOLLOWING METHODS
   - A. AUTOMATIC AIR VENT
   - B. REMOTE INSPECTORS TEST VALVE
   - C. OTHER APPROVED MEANS
29. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE CONFORMING TO ALL DRAINAGE REQUIREMENTS AS OUTLINED IN NFPA 13 (2022) SEC. 16.10.
30. SPRINKLER PIPE FITTERS SHALL BE CERTIFIED BY CALFIRE OSFM. SEE SFM 1B-17-002.
31. SEE SPECIFICATION SECTION 211000 & 210050 FOR ADDITIONAL REQUIREMENTS.

INSPECTION & TESTING PROJECT NOTES

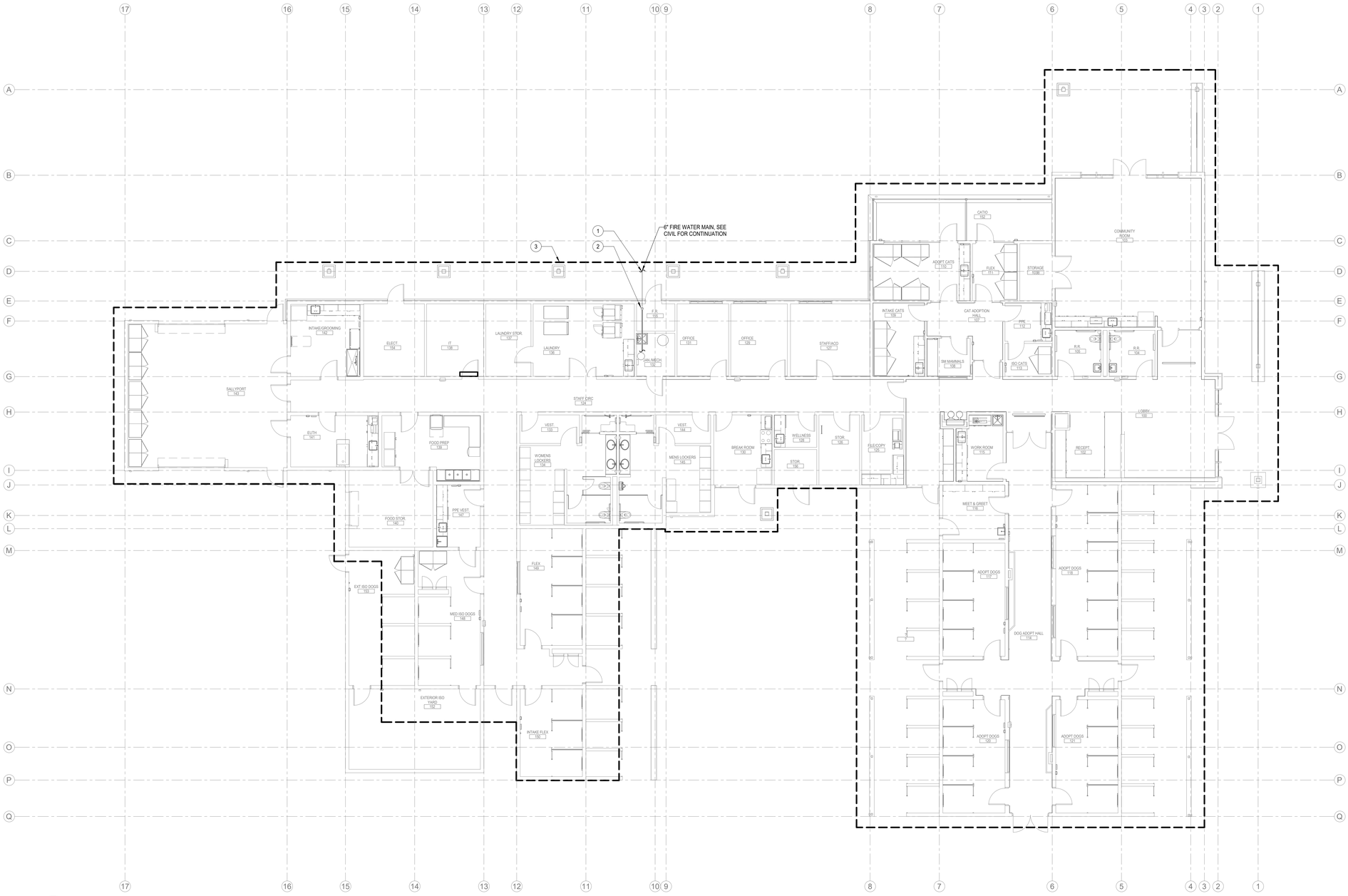
1. A MINIMUM O

SHEET NOTES:

1. THE ENTIRE AUTOMATIC FIRE SPRINKLER SYSTEM IS A DEFERRED-APPROVAL ITEM. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE OFFICE OF THE STATE FIRE MARHSALL OR THE AUTHORITY HAVING JURISDICTION. THE INTENT AND EXTENT OF THESE DRAWINGS ARE TO OUTLINE THE REQUIRED AREAS OF COVERAGE ONLY.
2. LIGHT HAZARD OCCUPANCY ROOMS UNDER 800 SF SHALL BE ALLOWED HEAD SPACING PER 2022 NFPA 13 SEC. 10.2.5.2.3
3. SPRINKLER PROTECTION UNDER NON-COMBUSTIBLE EXTERIOR ROOF PROJECTIONS MAY BE OMITTED PER 2022 NFPA 13 SEC. 9.2.3.2
4. SPRINKLER PROTECTION AT NON-COMBUSTIBLE CONCEALED SPACES MAY BE OMITTED PER 2022 NFPA 13 SEC. 9.2.1.1
5. PROVIDE CONCEALED SPRINKLER HEADS AT ALL LOCATIONS.

KEYNOTES:

1. INCOMING UNDERGROUND 6" FIRE WATER LINE TO SERVE THE BUILDING. SPRINKLER POC 5'-0" OUTSIDE FACE OF THE BUILDING UNLESS OTHERWISE NOTED. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION.
2. FIRE RISER ASSEMBLY REFER TO DETAIL 1/ FP0.01 FOR ADDITIONAL INFORMATION.
3. ALL AREAS OF THE BUILDING TO BE FULLY PROTECTED BY AN AUTOMATIC WET PIPE FIRE SPRINKLER SYSTEM PER NFPA 13 2022 REQUIREMENTS. AREAS SHALL INCLUDE ALL OVERHANGS, CANOPIES, AND CONCEALED SPACES UNLESS OTHERWISE CALLED TO BE OMITTED ON THESE PLANS.



1 FP2.00 OVERALL FIRE PROTECTION FLOOR PLAN

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

DEFERRED SUBMITTAL - FOR REFERENCE ONLY

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DATE SIGNED: 6/18/2026

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RANCHO CORDOVA, CALIFORNIA

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220663.99 — PROJECT NO.

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
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Key Plan:

Project No.: ###-#-##
Drawn By: Author
Checked By: Checker

No.	Description	Date	By

BID SET
6/23/26

OVERALL FIRE PROTECTION FLOOR PLAN

FP2.00

6/17/2026 8:59:48 AM

PROJECT GENERAL NOTES

1. ELECTRICAL SCOPE SHALL COMPLY WITH THE LATEST ADOPTED EDITIONS OF THE CALIFORNIA ELECTRIC CODE (CEC), CALIFORNIA BUILDING CODE (CBC), CALIFORNIA FIRE CODE (CFC), CALIFORNIA MECHANICAL CODE (CMC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 72) AND THE CALIFORNIA ENERGY CODE.
2. THE CONTRACTOR SHALL VISIT THE JOBSITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING THE PROJECT AND SHALL INCLUDE IN THEIR BID ALL THE NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH THE ELECTRICAL DRAWINGS, SPECIFICATIONS, AND ALL APPLICABLE CODES.
3. DRAWINGS INDICATE GENERAL ARRANGEMENT OF ELECTRICAL SYSTEMS AND WORK. FOLLOW THE DRAWINGS IN LAYING OUT WORK AND VERIFY EXACT LOCATIONS WITH ARCHITECTURAL FLOOR PLAN AND RCP DRAWINGS. ALSO, CHECK DRAWINGS OF OTHER TRADES TO VERIFY LOCATION OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AND COORDINATE SPACE CONDITIONS WITH THEIR INSTALLATION. FINAL LOCATIONS SHALL BE ADJUSTED TO MEET FIELD CONDITIONS.
4. NOT EVERY ELECTRICAL RACEWAY, BOX, CONDUCTOR, ETC., FOR A COMPLETE ELECTRICAL INSTALLATION IS SHOWN ON THESE DRAWINGS. THIS IS DONE FOR CLARITY PURPOSES AND EASE OF INTERPRETING DRAWINGS. PROVIDE ALL ADDITIONAL ITEMS REQUIRED TO MAKE THE ELECTRICAL SYSTEMS COMPLETE AND OPERATIONAL.
5. WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THESE DRAWINGS AND SHALL ALSO COMPLY WITH THE ELECTRICAL SPECIFICATIONS. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT OF THE REQUIREMENTS SHALL TAKE PRECEDENT.
6. ALL NEW ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE UNDERWRITER'S LABORATORIES (UL) LISTED OR ELECTRICAL TESTING LABORATORIES (ETL) LISTED AND BEAR THEIR LABELS.
7. ALL ELECTRICAL MATERIALS SHALL BE NEW AND UNUSED, AND THE SAME MANUFACTURER OF LIKE EQUIPMENT AND/OR SYSTEMS.
8. CONTRACTOR SHALL REMOVE ALL LEFTOVER CONDUIT, WIRE, SCRAPS, ETC. AND LEAVE PREMISES CLEAN AND FREE OF TRASH AND DEBRIS RESULTING FROM THEIR WORK.
9. COORDINATE ALL INCOMING ELECTRICAL SERVICE WORK WITH THE SERVING POWER UTILITY COMPANY PRIOR TO ANY INSTALLATION. CALL FOR UTILITY COMPANY INSPECTIONS OF UNDERGROUND INSTALLATION PRIOR TO BACK-FILLING.
10. ALL ON-SITE PRIMARY AND SECONDARY INFRASTRUCTURE FOR SERVICE ENTRANCE INSTALLATION WORK OF POWER UTILITY COMPANY SHALL BE PROVIDED UNDER THIS CONTRACT. COORDINATE INSTALLATION WITH POWER UTILITY COMPANY'S STANDARDS AND SPECIFICATIONS.
11. POWER UTILITY COMPANY UNDERGROUND CONDUIT INSTALLATIONS SHALL UTILIZE 60° RADIUS HORIZONTAL BENDS AND 36° RADIUS VERTICAL BENDS FOR SECONDARY SERVICE LATERALS.
12. POURED-IN-PLACE OR PRECAST CONCRETE TRANSFORMER PADS FOR POWER UTILITY COMPANY SHALL BE PROVIDED BY CONTRACTOR AND SHALL BE IN FULL COMPLIANCE WITH UTILITY COMPANY'S STANDARDS AND SPECIFICATIONS.
13. COORDINATE ALL INCOMING TELEPHONE AND CATV SERVICE WORK WITH SERVING TELECOMMUNICATION UTILITY COMPANIES PRIOR TO ANY INSTALLATION. CALL FOR UTILITY COMPANY INSPECTIONS OF UNDERGROUND INSTALLATION PRIOR TO BACK-FILLING.
14. PRIOR TO COMMENCING ANY TRENCHING SCOPE ON-SITE, CONTACT THE UTILITIES UNDERGROUND SERVICE ALERT (USA) TO DETERMINE THE EXACT LOCATIONS OF ANY EXISTING UNDERGROUND UTILITY LINES, WHICH MIGHT GET DAMAGED DURING EXCAVATION. WHERE INTERFERENCE IS POSSIBLE, TRENCHING SHALL BE DONE BY HAND WITH SHOVELS.
15. MINIMUM CONDUIT TRADE SIZE FOR EXTERIOR APPLICATIONS SHALL BE 0.75", UNLESS OTHERWISE NOTED.
16. ALL UNDERGROUND BRANCH CIRCUIT CONDUITS SHALL HAVE A MINIMUM COVER OF 18", UNLESS OTHERWISE NOTED. INSTALL A WARNING/MARKER TAPE 6" OVER THE CONDUITS.
17. ALL UNDERGROUND FEEDER CONDUITS SHALL HAVE A MINIMUM COVER OF 24". WHERE FEEDER CONDUITS ARE INSTALLED UNDER ROADS OR PAVED SURFACE WITH VEHICLE TRAFFIC, THE MINIMUM COVER SHALL INCREASE TO 36". INCLUDE A MINIMUM 12" HORIZONTAL SEPARATION BETWEEN LOW-VOLTAGE AND LINE-VOLTAGE CONDUITS INSTALLED IN SAME TRENCH. INSTALL A WARNING/MARKER TAPE 12" OVER THE CONDUITS.
18. ALL UNDERGROUND CONDUITS ORIGINATING FROM BUILDING EXTERIOR AND TERMINATING IN ELECTRICAL EQUIPMENT WITHIN THE BUILDING INTERIOR SHALL BE SEALED AT BOTH ENDS AFTER CONDUCTORS ARE INSTALLED, TO PREVENT MOISTURE FROM COMING IN CONTACT WITH LIVE PARTS.
19. REFER TO LANDSCAPE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF SITE LIGHTING FIXTURES AND IRRIGATION CONTROLLERS.
20. SITE PULLBOXES FOR BRANCH CIRCUITING SHALL BE SIZED TO CODE MINIMUM REQUIREMENTS. OBTAIN APPROVAL FROM LANDSCAPE ARCHITECT FOR ANY PULLBOXES NEEDED TO FACILITATE SITE CONDUIT REQUIREMENTS.
21. PROVIDE CONCRETE BASES FOR ALL SITE POLE MOUNTED LUMINAIRES, BOLLARDS, AND SIGN LIGHTING, UNLESS OTHERWISE NOTED.
22. ALL GROUNDING ELECTRODES WITHIN BUILDING OR STRUCTURE SHALL BE BONDED TOGETHER TO FORM A SINGLE GROUNDING ELECTRODE SYSTEM.
23. ALL SEPARATELY DERIVED SYSTEMS SHALL COMPLY WITH CODE, CEC 250.104, FOR BONDING TO METAL WATER PIPING AND STRUCTURAL METAL.
24. FURNISH, INSTALL, AND CONNECT A CODE SIZED INSULATED OR BARE COPPER GROUND CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDER CONDUITS AND/OR MC CABLES.
25. WHERE UNGROUNDED CONDUCTORS ARE INCREASED IN SIZE TO ACCOMMODATE VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL ALSO BE INCREASED IN SIZE PROPORTIONATELY, ACCORDING TO THE CIRCULAR MIL AREA OF UNGROUNDED CONDUCTORS.
26. ALL EQUIPMENT CONNECTED BY PERMANENT WIRING METHODS SHALL BE GROUNDED.
27. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED TO PREVENT VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST OUTLET OR DEVICE. THE MAXIMUM VOLTAGE DROP ALLOWED ON COMBINED FEEDERS AND BRANCH CIRCUITS SHALL NOT EXCEED 5% TO THE FARTHEST OUTLET OR DEVICE.
28. ALL CONDUCTORS ON THIS PROJECT SHALL BE COPPER.
29. CONDUCTORS 600VOLT OR LESS RATED SHALL UTILIZE THE AMPACITY OF THE 60-DEGREE C COLUMN OF CEC TABLE 310.16 FOR CONDUCTOR SIZES #14 AWG THROUGH #1 AWG. FOR CONDUCTOR SIZES OVER #1 AWG, UTILIZE AMPACITY FROM THE 75-DEGREE C COLUMN OF CEC TABLE 310.16.
30. MULTIWIRE BRANCH CIRCUITS SHALL ORIGINATE FROM THE SAME PANELBOARD.
31. MULTIWIRE BRANCH CIRCUITS SHALL BE PROVIDED WITH A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES, I.E. HANDLE TIES OR MULTIPOLE CIRCUIT BREAKERS.
32. ALL MULTIWIRE BRANCH CIRCUITS SHOWN WITH THREE (3) CONSECUTIVE PHASE CONDUCTORS (E.G., 1,3,5 OR 4,6,8), NONE SHARING THE SAME PHASE, SHALL INCLUDE A DEDICATED NEUTRAL CONDUCTOR, THREE (3) HOTS AND ONE (1) NEUTRAL. CIRCUITING OUT OF PHASE ORDER (E.G., 1,5,7 OR 4,6,10) WILL REQUIRE AN ADDITIONAL NEUTRAL CONDUCTOR, TWO (2) HOTS AND ONE (1) NEUTRAL PLUS ONE (1) HOT AND ONE (1) NEUTRAL.
33. FEEDER CONDUCTORS SHALL BE INSTALLED IN CONDUIT, UNLESS OTHERWISE NOTED.
34. WHERE MORE THAN THREE UNGROUNDED CONDUCTORS ARE ROUTED WITHIN A RACEWAY, THE CONTRACTOR SHALL APPLY THE DERATING FACTOR REQUIRED BY CODE.
35. MINIMUM CONDUIT TRADE SIZE FOR INTERIOR APPLICATIONS SHALL BE 0.5", UNLESS OTHERWISE NOTED.
36. CONDUIT ROUTING ON DRAWINGS IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS, LIMITING BENDS AND BOXES, AND SHALL COORDINATE INSTALLATION WITH WORK OF OTHER TRADES.
37. ALL CONDUIT AND RACEWAY PENETRATIONS THROUGH FIRE-RATED WALLS OR FLOORS SHALL BE UL LISTED ASSEMBLIES THAT PROTECTS THE RATED ASSEMBLY. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL RATED WALLS AND FLOORS AS APPLICABLE.
38. FOR CONDUITS IMBEDDED IN CONCRETE FLOOR SLABS OR DECKS, THE MAXIMUM CONDUIT TRADE SIZE SHALL NOT EXCEED 1.25" OR 1/3 OF FLOOR THICKNESS, WHICHEVER IT SMALLER. CONDUITS SHALL BE SPACES A MINIMUM OF 6" APART, CENTER-TO-CENTER. COORDINATE LOCATION AND ROUTING WITHIN FLOOR WITH THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
39. ANY BLOCKOUTS AND SLEEVING OF CONCRETE FLOORS SHALL BE PLANNED IN ADVANCED AND COORDINATED WITH THE ARCHITECT AND STRUCTURAL ENGINEER FOR THEIR APPROVALS.
40. ALL CONNECTIONS TO MECHANICAL AND PLUMBING EQUIPMENT SHALL BE MADE WITH A MINIMUM OF 36" SEALTIGHT FLEXIBLE METAL CONDUIT TO PREVENT SOUND AND VIBRATION TRANSMISSION TO THE STRUCTURE.
41. BUILDING EXPANSION JOINTS ARE NOT INDICATED ON THE ELECTRICAL DRAWINGS AND SHALL BE COORDINATED WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INCLUDE FLEXIBLE EXPANSION RACEWAY AND WIRING METHODS AT JOINT LOCATIONS TO MEET THE DEFLECTION AND EXPANSION REQUIREMENTS OF THE BUILDING.
42. PROVIDE INSULATING BUSHINGS OR INSULATED THROAT CONNECTORS AT BOTH ENDS OF ALL CONDUIT SLEEVES.
43. DRAWINGS INDICATE JUNCTION BOXES WITH CONDUIT/CONDUCTOR HOMERUNS FOR BRANCH CIRCUITING, AS WELL AS CIRCUIT NUMBERING ADJACENT TO EQUIPMENT, DEVICES, LUMINAIRES, AND BOXES SERVED. THEY DO NOT INCLUDE CONNECTIONS BETWEEN DEVICES AND/OR LUMINAIRES. CONTRACTOR SHALL PROVIDE ALL RACEWAY AND CONDUCTOR CONNECTIONS BETWEEN THE DEVICES, LUMINAIRES, AND JUNCTION BOXES AS REQUIRED AND COORDINATED WITH FIELD CONDITIONS AND OTHER TRADES.
44. MAINTAIN A MINIMUM OF 12" BETWEEN ELECTRICAL RACEWAYS AND LOW-VOLTAGE TELECOMMUNICATION SYSTEM CABLING, INCLUDING MC CABLING.
45. IN HARD-LID (GYPSUM BOARD) CEILING SPACES, ARRANGE CONDUIT AND CIRCUITING INSTALLATION TO AVOID AND/OR LIMIT THE USE OF JUNCTION BOXES IN OR ABOVE CEILINGS. USE OF JUNCTION BOXES ABOVE CEILINGS SHALL BE LIMITED TO LOCATIONS ACCESSIBLE FROM ACCESS PANELS.
46. ALL JUNCTION AND PULL BOXES SHALL BE SIZED PER CODE TO ACCOMMODATE NUMBER OF CONDUITS AND/OR CONDUCTORS ROUTED TO AND FROM BOXES.
47. RACEWAYS ROUTED IN EXPOSED CEILING AREAS SHALL BE RUN PARALLEL AND AT RIGHT ANGLES TO WALLS WITHIN SPACES. MC CABLE IS NOT ALLOWED IN EXPOSED CEILING SPACES.
48. PROVIDE A PULL WIRE/TAPE IN ALL EMPTY CONDUIT RUNS OVER 15' IN LENGTH.

PROJECT GENERAL NOTES (cont.)

49. NO PIPING, DUCTWORK, OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE ALLOWED WITHIN THE DEDICATED SPACE ABOVE ELECTRICAL EQUIPMENT.
50. REQUIRED ELECTRICAL EQUIPMENT WORKING SPACE DEPTH SHALL NOT BE LESS THAN THAT INDICATED IN CEC TABLE 110.26(A)(1). THE WIDTH OF THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT SHALL BE THE WIDTH OF THE EQUIPMENT OR 30", WHICHEVER IS GREATER. THIS REQUIREMENT ALSO APPLIES TO DISCONNECT SWITCHES.
51. PROVIDE 0.5" DEFLECTION NEOPRENE PADS FOR FLOOR AND SUSPENDED TRANSFORMERS. MASON ND/HD OR EQUAL.
52. UPON COMPLETION OF THE POWER SYSTEM STUDY AND REVIEW BY THE ENGINEER, THE ELECTRICAL CONTRACTOR SHALL MAKE ANY REQUIRED ADJUSTMENTS TO THE ELECTRICAL EQUIPMENT SUBMITTALS IN CONFORMANCE WITH THE STUDIES RECOMMENDATIONS AND SUBMIT FOR REVIEW BY THE ENGINEER. NO ELECTRICAL EQUIPMENT SHALL BE RELEASED FOR SHIPMENT OR INSTALLED ON-SITE PRIOR TO ENGINEER'S REVIEW OF THE POWER SYSTEM STUDY AND APPROVED ADJUSTMENTS TO ELECTRICAL EQUIPMENT SUBMITTALS.
53. CONTRACTOR SHALL PROVIDE ARC FLASH LABELS FOR ALL ELECTRICAL EQUIPMENT WITHIN THE SCOPE OF THIS PROJECT. THESE LABELS SHALL BE GENERATED BY THE CONTRACTOR FROM THE POWER SYSTEM STUDY AND SUBMITTED WITH THE POWER SYSTEM STUDY SUBMITTAL FOR ENGINEER'S REVIEW. THIS INCLUDES ALL FIELD MARKING OF AIC VALUES ON ALL BOARDS PER THE CEC.
54. PROVIDE ENGRAVED NAMEPLATES FOR ALL ELECTRICAL PANELBOARDS, SWITCHBOARDS, SWITCHGEAR, TRANSFORMERS, AND DISCONNECT SWITCHES, AS DESCRIBED IN THE SPECIFICATIONS.
55. CONTRACTOR SHALL ENSURE THAT THE ELECTRICAL EQUIPMENT PROVIDED UNDER THEIR CONTRACTOR WILL FIT WITHIN THE ELECTRICAL ROOMS AND SPACES PROVIDED IN THE BID DOCUMENTS, WHETHER PROVIDED BY THE SPECIFIED EQUIPMENT MANUFACTURER OR NOT. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED IF CONTRACTOR NEEDS TO ADJUST EQUIPMENT PACKAGE TO OBTAIN REDUCED DIMENSIONS.
56. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING REVISED LAYOUTS OF DISTRIBUTION EQUIPMENT IN ELECTRICAL ROOMS AND/OR SPACES, FOR APPROVAL BY ENGINEER, IF PROPOSED INSTALLATION DIFFERS FROM CONSTRUCTION DOCUMENTS. SUBMISSION MUST BE REVIEWED PRIOR TO RELEASE OF EQUIPMENT ORDER AND PRIOR TO INSTALLATION.
57. EQUIPMENT HOUSING PG&E METER, SHALL BE LIMITED TO A 2" HIGH CONCRETE HOUSING KEEPING PAD. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON HIGH HOUSEKEEPING PAD. HOUSEKEEPING PADS SHALL NOT EXTEND MORE THAN 2" PAST FRONT, REAR OR SIDE FACES OF EQUIPMENT MOUNTED ON PAD.
58. OVERCURRENT PROTECTION SHOWN ON DRAWINGS FOR ALL MOTOR TYPE LOADS ARE BASED ON DOCUMENTS PROVIDED PRIOR TO BID. CONTRACTOR SHALL REVIEW EQUIPMENT SUBMITTALS AND SHOP DRAWINGS FOR HVAC, PLUMBING, FIRE PROTECTION, ELEVATORS, ETC. TO CONFIRM SIZES HAVE NOT CHANGED AND MAKE ADJUSTMENTS IF THEY HAVE.
59. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHERPROOF (NEMA 3R RATED, MINIMUM) AND LISTED FOR EXTERIOR APPLICATIONS.
60. WIRING SPACE IN PANELBOARDS, DISTRIBUTION BOARDS, SWITCHBOARDS, AND SWITCHGEAR SHALL BE DEDICATED TO CONDUCTORS TERMINATED IN THAT ENCLOSURE AND SHALL NOT BE USED AS PULL AND/OR SPLICE BOXES FOR CONDUCTORS THAT TERMINATE IN OTHER ENCLOSURES.
61. ALL CIRCUIT BREAKERS SERVING THE FIRE ALARM CONTROL PANEL AND FIRE ALARM SYSTEM COMPONENTS SHALL HAVE LOCKABLE HANDLES AND SHALL BE RED IN COLOR, FOR EASE IN IDENTIFICATION.
62. PROVIDE PROTECTION FROM PHYSICAL DAMAGE FOR ALL ELECTRICAL EQUIPMENT, LUMINAIRES, WIRING DEVICES, ETC., DURING THE CONSTRUCTION OF THE PROJECT.
63. FIRE/SMOKE DAMPERS (FSD) SHALL CONTAIN A MOTOR RATED ACTUATOR REQUIRING A 20AMP, 120VOLT CONNECTION WITH A LOAD OF APPROXIMATELY 75WATTS PER ACTUATOR. DEPENDING ON THE PHYSICAL SIZE OF THE FSD, THERE MAY BE A REQUIREMENT FOR MORE THAN ONE ACTUATOR, REQUIRING MULTIPLE CONNECTIONS. THIS SHOULD BE VERIFIED WITH HVAC CONTRACTOR. MORE THAN ONE ACTUATOR ALSO MEANS MORE THAN ONE SET OF END SWITCHES, REQUIRING MULTIPLE FIRE ALARM CONNECTIONS.
64. PROVIDE A MINIMUM OF 24" HORIZONTAL SEPARATION BETWEEN BACK-TO-BACK RECEPTACLES IN A 2-HOUR RATED WALL. REFER TO ARCHITURAL DRAWINGS FOR LOCATIONS OF ALL 2-HOUR RATED WALLS.
65. MOUNTING HEIGHTS OF ALL WIRING DEVICES ARE DIMENSIONED TO THE CENTER OF THE DEVICE, UNLESS OTHERWISE NOTED.
66. PROVIDE INDIVIDUAL GFCI TYPE RECEPTACLES AT EACH LOCATION SHOWN ON DRAWINGS. DO NOT APPLY THE FEED-THROUGH METHOD OF PROTECTING A NON-GFCI RECEPTACLE DOWNSTREAM OF A GFCI RECEPTACLE.
67. PROVIDE GFCI TYPE RECEPTACLES WITH WEATHER RESISTANT "WHILE-IN-USE" COVERPLATES WITHIN 25' OF ALL EXTERIOR HVAC AND PLUMBING EQUIPMENT.
68. ALL DRINKING FOUNTAIN RECEPTACLES SHALL BE GFCI TYPE.
69. WHERE RECEPTACLES ARE LOCATED OUTSIDE OR IN WET/DAMP LOCATIONS, PROVIDE WEATHERPROOF WHILE-IN-USE COVERPLATES.
70. ALL WIRING DEVICES AND JUNCTION BOX COVERS SHALL HAVE TYPE-ON-TAPE LABELS INDICATING THE PANELBOARD AND CIRCUIT NUMBER(S) SERVING EACH DEVICE.
71. CONTRACTOR SHALL SIZE ALL JUNCTION AND PULL BOXES PER THE MINIMUM CODE REQUIREMENTS OF CEC ARTICLE 314, UNLESS OTHERWISE NOTED ON DRAWINGS.
72. CONTRACTOR SHALL CONFIRM THAT ALL LUMINAIRES SPECIFIED WITH TRIMS AND FRAMES ARE COMPATIBLE WITH THE ASSOCIATED CEILING TYPES, PRIOR TO PREPARING SUBMITTAL.
73. CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLANS (RCP) FOR EXACT LOCATIONS OF ALL CEILING MOUNTED LUMINAIRES.
74. CONTRACTOR SHALL REFER TO ARCHITECTURAL ELEVATION PLANS FOR EXACT LOCATIONS OF ALL WALL MOUNTED LIGHTING FIXTURES.
75. LUMINAIRES MOUNTED IN CONTINUOUS ROWS SHALL BE THROUGH-WIRED WITHIN FIXTURE INTERNAL WIREWAY CHASE WITH CIRCUITS AND CONTROLS AS NOTED ON DRAWINGS. LUMINAIRES NOT LISTED FOR THROUGH-WIRING SHALL BE WIRED WITH SEPARATE RACEWAY AND WIRING EXTERNAL TO THE LIGHTING FIXTURES.
76. ALL 0-10V LIGHTING CONTROL CABLING, ROUTED WITHIN SAME CONDUIT AS LINE-VOLTAGE PHASE CONDUCTORS, SHALL BE 600VOLT RATED TO MATCH CONDUCTORS.
77. EMERGENCY LIGHTING SHALL BE PROVIDED THROUGHOUT THE EGRESS PATHWAY TO ILLUMINATION LEVELS OF 1 FOOT-CANDLE AVERAGE AT THE WALKING SURFACE, WITH NO POINT BEING LESS THAN 0.1 FOOT-CANDLE MINIMUM, A MAXIMUM-TO-MINIMUM RATIO 40-TO-1, NOT TO EXCEED.
78. THE SUBSCRIPT ON SWITCHES "Sa" DENOTES THE LUMINAIRES CONTROLLED, WHICH IS ALSO FOUND ADJACENT TO THE CIRCUIT NUMBER AT EACH LUMINAIRE CONTROLLED BY SWITCH.
79. CONTROLS SHALL MEET THE REQUIREMENTS OF CALIFORNIA TITLE 24, OF THE CURRENTLY ADOPTED EDITION.
80. PROVIDE INDEPENDENT SWITCHING OR CONTROL DEVICE FOR EACH AREA ENLCOSED BY CEILING HEIGHT PARTITION WALLS.
81. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
82. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
83. A LISTING OF CERTIFIED ATT CAN BE FOUND AT: HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
84. THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.
85. MULTI-LEVEL LIGHTING CONTROL IS REQUIRED FOR ALL GENERAL LIGHTING IN ENCLOSED SPACES, 100 SQUARE FEET OR LARGER, WITH A CONNECTED LOAD EXCEEDING 0.5W/SQFT. PROVIDE CONTROLS AS FOLLOWS:
    - LOCAL MANUAL DIMMING VIA DIMMING SWITCH.
    - CENTRAL MANUAL DIMMING VIA DIMMING MODULE AT THE LIGHTING CONTROL PANEL AND LOCAL DIMMING SWITCH.
    - AUTOMATIC DAYLIGHT HARVESTING IN BOTH PRIMARY AND SECONDARY DAYLIGHT ZONES.
86. AUTOMATIC SHUT-OFF CONTROL FOR ALL INTERIOR LIGHTING TO INCLUDE OCCUPANCY SENSORS AND/OR TIMECLOCKS WITH OVERRIDE SWITCHES.
87. THE FIRE ALARM SYSTEM SHALL MAINTAIN 2-HOUR SURVIVABILITY PROTECTION WHERE REQUIRED BY CODE. THIS SHALL BE DOCUMENTED IN A SEPERATE DEFERRED SUBMITTAL.
88. ALL NETWORK CONNECTED LIFE SAFETY EQUIPMENT SHALL BE PROVIDED WITH CYBERSECURITY PER CEC ARTICLE 110.3(A)(8).
89. ONLY PROVISIONS FOR A FUTURE PV SYSTEM WILL BE INCLUDED WITH THIS PLAN. ANY PV SYSTEM INSTALLATION IN THE FUTURE WILL BE UNDER A SEPARATE PERMIT.

ABBREVIATIONS

A	AMPERES	KO	CONDUIT KNOCKOUT
AFI	ARC FAULT CIRCUIT INTERRUPTER	LCP	LIGHTING CONTROL PANEL
AF	AMPERE OVERCURRENT FRAME SIZE (WHEN APPLIED TO CIRCUIT BREAKERS) OR AMPERE FUSE SIZE (WHEN APPLIED TO FUSES)	MBGB	MAIN BUILDING GROUND BUS
		MCB	MAIN CIRCUIT BREAKER
		MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MDF	MAIN DISTRIBUTION FRAME
AIC	ASYMMETRIC INTERRUPTING CURRENT	MLO	MAIN LUGS ONLY
AL	ALUMINUM	MTC	EMPTY CONDUIT
AT	AMPERE OVERCURRENT TRIP (WHEN APPLIED TO CIRCUIT BREAKERS)	MTS	MANUAL TRANSFER SWITCH
AV	AUDIO / VIDEO	(N)	NEW
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED
BAS	BUILDING AUTOMATION SYSTEM	NF	NON-FUSED
BPS	BOLTED PRESSURE CONTACT SWITCH	NIEC	NOT IN ELECTRICAL CONTRACT
C	CONDUIT	NL	NIGHT LIGHT, UNSWITCHED
CCTV	CLOSED CIRCUIT TELEVISION	NO	NORMALLY OPEN
CEC	CALIFORNIA ELECTRICAL CODE	NTS	NOT TO SCALE
CL	CURRENT LIMITING CIRCUIT BREAKER OR FUSE	OC	ON CENTER
		OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CP	CIRCULATION PUMP	PA	PUBLIC ADDRESS
CT	CURRENT TRANSFORMER	PDZ	PRIMARY DAYLIGHT ZONE
CU	COPPER	PNL	PANEL
DF	DRINKING FOUNTAIN	PQM	POWER QUALITY METER
(E)	EXISTING TO REMAIN	PT	POTENTIAL TRANSFORMER
EC	ELECTRICAL CONTRACTOR	PVC	POLYVINYL CHLORIDE
EF	EXHAUST FAN	(R)	EXISTING TO BE REMOVED
EP	EXPLOSION PROOF	(RR)	REMOVE AND RELOCATE
EPO	EMERGENCY POWER OFF	SAD	SEE ARCHITECTURAL DRAWINGS
EMT	ELECTRICAL METALLIC TUBING	TC	TIME CLOCK
EWH	ELECTRIC WATER HEATER	TP	TWISTED-PAIR
F	FUSED	SDZ	SECONDARY DAYLIGHT ZONE
(F)	FUTURE	SPD	SURGE PROTECTION DEVICE
FACP	FIRE ALARM CONTROL PANEL	TX	TRANSFORMER
FFCP	FIREMAN'S FAN CONTROL PANEL	TYP	TYPICAL
FLA	FULL LOAD AMPERES	UON	UNLESS OTHERWISE NOTED
FMC	FLEXIBLE METAL CONDUIT	UPS	UNINTERRUPTIBLE POWER SUPPLY
FSD	FIRE/SMOKE DAMPER	V	VOLTS
FRAP	FIREMAN'S REMOTE ANNUNCIATOR PANEL	VA	VOLTS-AMPS
G	GROUND	VFD	VARIABLE FREQUENCY DRIVE
GB	GROUND BUS	VM	VENDING MACHINE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WAP	WIRELESS ACCESS POINT
GND	GROUND	WP	WEATHERPROOF
GRAP	GENERATOR REMOTE ANNUNCIATOR PANEL	2SP	TWO SPEED
GRC	GALVANIZED RIGID CONDUIT	1Ø	1-PHASE
HNC	HOME NETWORK CABINET	3Ø	3-PHASE
HPC	HIGH PRESSURE CONTACT SWITCH	1P	1-POLE
IDF	INTERMEDIATE DISTRIBUTION FRAME	2P	2-POLE
IG	ISOLATED GROUND	3P	3-POLE
INV	INVERTER	3W	3-WIRE
IMC	INTERMEDIATE METAL CONDUIT	4W	4-WIRE

APPLIANCES

DO	DOUBLE OVEN	MW	MICROWAVE
DW	DISHWASHER	RF	REFRIGERATOR
ED	ELECTRIC DRYER	RH	RANGE HOOD
EO	ELECTRIC OVEN/RANGE	UR	UNDERCOUNTER REFRIGERATOR
GD	GARBAGE DISPOSER	WC	WINE COOLER
GR	GAS RANGE	WM	WASHING MACHINE

ELECTRICAL SHEET INDEX

SHEET NO.	SHEET NAME	2025-01-06 60% DD	2026-01-20 100% DD DESIGN DEVELOPMENT	2026-04-08 90% CD	2026-05-14 PC2	2026-06-09 PC3
E0.1	NOTES, ABBREVIATIONS, AND SHEET INDEX	•	•	•	•	•
E0.2	SYMBOLS	•	•	•	•	•
E0.3	SCHEDULES	•	•	•	•	•
E0.4	PANEL SCHEDULES			•	•	•
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E0.7	TITLE 24 - OUTDOOR LIGHTING			•	•	•
E0.8	TITLE 24 - OUTDOOR LIGHTING CONTINUED			•	•	•
E0.9	TITLE 24 - INDOOR LIGHTING			•	•	•
E0.10	TITLE 24 - INDOOR LIGHTING CONTINUED				•	•
E1.00	SITE PLAN	•	•	•	•	•
E2.00	LIGHTING PLAN	•	•	•	•	•
E3.00	POWER & TELECOM PLAN	•	•	•	•	•
E3.1	POWER & TELECOM ROOF PLAN	•	•	•	•	•
E4.00	SPECIAL SYSTEMS PLAN	•	•	•	•	•
E5.00	ENLARGED ROOM PLANS	•	•	•	•	•
E6.00	POWER ONE-LINE AND FIRE ALARM RISER DIAGRAMS	•	•	•	•	•
E6.01	SPECIAL SYSTEMS DIAGRAMS - SECURITY	•	•	•	•	•
E6.02	SPECIAL SYSTEMS DIAGRAMS - SECURITY	•	•	•	•	•
E7.00	ELECTRICAL DETAILS	•	•	•	•	•
E7.01	ELECTRICAL DETAILS	•	•	•	•	•
E7.02	ELECTRICAL DETAILS	•	•	•	•	•
E7.03	SPECIAL SYSTEMS DETAILS	•	•	•	•	•
E7.04	SPECIAL SYSTEMS DETAILS	•	•	•	•	•
E8.01	EGRESS PHOTOMETRICS PLAN	•	•		•	•
E8.02	SITE PLAN - PHOTOMETRICS	•	•		•	•

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Key Plan:

Project No.: 25084
Drawn By: AS
Checked By: SW

No.	Description	Date	By

BID SET
6/23/2026

NOTES, ABBREVIATIONS, AND SHEET INDEX

E0.1

P:\25084 15005 FM

SYMBOLS LIST

SOME OF THESE SYMBOLS SHOWN MAY NOT BE USED ON THIS PROJECT

POWER DISTRIBUTION

- SWITCHGEAR, SWITCHBOARD, DISTRIBUTION BOARD, SUBSTATION OR MOTOR CONTROL CENTER, FLOOR MOUNTED ON CONCRETE HOUSEKEEPING PAD WHERE INDICATED ON DRAWINGS. DOUBLE LINE INDICATES FRONT FACE OF GEAR.
- DISTRIBUTION BOARD, SURFACE MOUNTED ON WALL.
- PANELBOARD, 277/480V, SURFACE MOUNTED ON WALL.
- PANELBOARD, 277/480V, FLUSH MOUNTED IN WALL.
- PANELBOARD, 120/208V, SURFACE MOUNTED ON WALL.
- PANELBOARD, 120/208V, FLUSH MOUNTED IN WALL.
- DRY-TYPE STEP-DOWN TRANSFORMER, FLOOR MOUNTED 480-120/208V 3Ø, UON. DOUBLE LINE INDICATES FRONT FACE OF TRANSFORMER.
- ELECTRIC MOTOR, NIEC. MAKE POWER CONNECTIONS ONLY AS NOTED ON PLANS.
- P — PULLBOX OR HANDHOLE, SIZE AND TYPE AS NOTED ON PLANS.
- A / AF — SAFETY DISCONNECT SWITCH, 3 POLE, UON. ADJACENT NUMBER INDICATES FUSE SIZE WHEN APPLICABLE. LABELING CONVENTION AS FOLLOWS:
  - A: 30A, NON-FUSED — AF: 30A, FUSED
  - B: 60A, NON-FUSED — BF: 60A, FUSED
  - C: 100A, NON-FUSED — CF: 100A, FUSED
  - D: 200A, NON-FUSED — DF: 200A, FUSED
- PACKAGE MOTOR CONTROLLER OR STARTER FURNISHED AND INSTALLED UNDER ANOTHER DIVISION WITH EQUIPMENT CONTROLLED. PROVIDE SINGLE-POINT POWER SERVICE CONNECTION UNDER THIS DIVISION AS NOTED ON PLANS.
- DRIVEN GROUND ROD.
- DRIVEN GROUND ROD IN GROUND WELL WITH COVER.
- ELECTRICAL VEHICLE CHARGING STATION, WALL MOUNTED.
- ELECTRICAL VEHICLE CHARGING STATION, PEDESTAL MOUNTED.
- CABLE TO BUS TERMINATION LUGS.
- GROUP MOUNTED MOLDED CASE CIRCUIT BREAKER.
- M — PRIVATE METER, MOUNTED INTEGRAL WITH OVERCURRENT PROTECTION OR SEPARATE WITHIN SWITCHGEAR.
- UTILITY METER, MOUNTED IN UTILITY METER SECTION OF SWITCHGEAR OR SWITCHBOARDS.
- TRANSFORMER.
- CONNECTION TO GROUND.
- CURRENT TRANSFORMERS.
- AUTOMATIC OR MANUAL TRANSFER SWITCH.
- GND — GROUND BUS AS SHOWN ON SINGLE LINE DIAGRAMS.
- GROUND BUS AS SHOWN ON PLAN VIEWS.
- NEU — NEUTRAL BUS.

SECURITY

- A — ALARM MONITORING CONTACT, MOUNTED AS NOTED ON PLANS.
- EL — ELECTRIC DOOR LOCK, NIEC, BUT WIRED UNDER THIS DIVISION.
- ES — ELECTRIC DOOR STRIKE, NIEC, BUT WIRED UNDER THIS DIVISION.
- ML — ELECTROMAGNETIC DOOR LOCK, NIEC, BUT WIRED UNDER THIS DIVISION.
- EP — ELECTRIFIED PANIC HARDWARE, NIEC, BUT WIRED UNDER THIS DIVISION.
- RX — REQUEST-TO-EXIT SWITCH, NIEC, FURNISH WITH DOOR HARDWARE AND WIRED UNDER THIS DIVISION.
- P — POWER TRANSFER HINGE, NIEC.
- R / R — DOOR RELEASE MOTION SENSOR, WALL OR CEILING MOUNTED ABOVE DOOR, UON.
- M — AREA MOTION SENSOR, CEILING MOUNTED, UON.
- M — AREA MOTION SENSOR, WALL MOUNTED, +84" UON.
- GB — GLASS BREAK DETECTOR, CEILING MOUNTED, UON.
- CR — CARD READER CONTROLLER, WALL MOUNTED, +42" UON.
- K — KEY PAD CONTROLLER, WALL MOUNTED, +42" UON.
- CCTV CAMERA, CEILING OR PENDANT MOUNTED AS NOTED ON PLANS.
- CCTV CAMERA, WALL MOUNTED.
- CCTV — CCTV MONITOR.
- IACP — INTRUSION ALARM CONTROL PANEL
- DACP — DOOR ACCESS CONTROL PANEL

LINESTYLES

- EXISTING TO REMAIN WHERE NOTED. OTHERWISE, HALF TONE SYMBOLS INDICATE BASE BID ITEMS WHEN SHOWN ON A "BID ALTERNATE" PLAN SHEET.
- EXISTING TO BE REMOVED (R) OR RELOCATED (RR)
- NEW CONSTRUCTION
- FUTURE CONSTRUCTION

WIRING DEVICES

- JUNCTION BOX, WALL MOUNTED, +18" UON.
- J — JUNCTION BOX, MOUNTED FLUSH IN CEILING.
- JUNCTION BOX, SURFACE OR PENDANT MOUNTED TO BOTTOM OF STRUCTURE IN ACCESSIBLE CEILING SPACE OR EXPOSED IN OPEN CEILING AREAS.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON. LETTERING ADJACENT TO THE DEVICE ON THE PLANS INDICATE THE FOLLOWING FOR THOSE RECEPTACLES.
  - A: ARC FAULT CURRENT INTERRUPTER (AFCI)
  - G: GROUND FAULT CURRENT INTERRUPTER (GFCI)
  - IG: ISOLATED GROUND
  - TR: TAMPER RESISTANT
  - U: INTEGRAL USB PORTS
  - WP: WEATHER-RESISTANT, GROUND FAULT CURRENT INTERRUPTER (GFCI) WITH WEATHERPROOF "IN USE" COVER
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED OVER COUNTER, 6" ABOVE BACK SPLASH UON, BUT NO HIGHER THAN ADA REQUIREMENTS.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, SPLIT-WIRED, WALL MOUNTED, +18" UON.
- DUPLEX, OR DOUBLE DUPLEX, CONVENIENCE RECEPTACLE DEVICE, CONTROLLED PER T24, WALL MOUNTED, +18" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, HORIZONTALLY WALL MOUNTED, +18" UON.
- SPECIALTY OUTLET DEVICE, NEMA CONFIGURATION TYPE AS NOTED ON PLANS, WALL MOUNTED, +18" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED FLUSH IN CEILING.
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED FLUSH IN CEILING.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED ON CONDUIT STANCHION FLOOR PENETRATION, +12" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, CORD OR REEL HUNG FROM STRUCTURE ABOVE. TYPE AS NOTED ON PLANS.
- S^T — SINGLE-POLE, MANUAL DISCONNECT SWITCH WITH THERMAL OVERLOAD ELEMENT, MOUNTED ADJACENT TO MOTOR.
- S^{MS} — SINGLE-POLE, FRACTIONAL HORSEPOWER MOTOR STARTER/DISCONNECT SWITCH, MOUNTED ADJACENT TO MOTOR.

CONVENTIONS

- (1) — NUMBERED NOTE, APPLIES TO ALL DRAWINGS.
- [1] — NUMBERED SHEET NOTE, APPLIES TO DRAWING CONTAINING NOTES ONLY.
- EQ ## — EQUIPMENT IDENTIFICATION TAG: ITEM FURNISHED AND INSTALLED UNDER ANOTHER DIVISION AND WIRED UNDER THIS DIVISION.
- 2004 — FEEDER TAG. REFER TO FEEDER SCHEDULE.
- 1 / E-801 — DETAIL REFERENCE:
  - DETAIL DESIGNATION
  - SHEET NUMBER
- 2 - F3 — LUMINAIRE IDENTIFICATION TAG:
  - LUMINAIRE TYPE
  - QUANTITY
- 2 E H 2 A — SWITCHBOARDS, DISTRIBUTION BOARDS, AND PANELBOARDS:
  - BOARD DESIGNATION
  - FLOOR NUMBER
  - VOLTAGE CLASSIFICATION
    - PS : PRIMARY SUBSTATION
    - MS : MAIN SWITCHBOARD
    - H : 277/480 PANELBOARD
    - L : 120/208 PANELBOARD
    - SS : SECONDARY SUBSTATION
    - HD : 277/480 DIST. BOARD
    - LD : 120/208 DIST. BOARD
- 2 E TX / 2 A — TRANSFORMERS:
  - TRANSFORMER DESIGNATION
  - FLOOR NUMBER
  - TRANSFORMER
  - POWER SOURCE
    - : NORMAL
    - E : EMERGENCY or ESSENTIAL
    - U : UPS
    - C : CRITICAL
    - S : LIFE SAFETY OR LEGALLY REQUIRED STANDBY
    - O : OPTIONAL STANDBY
- 2 T TB / 2 A — SIGNAL SYSTEM TERMINALS:
  - TERMINAL DESIGNATION
  - FLOOR NUMBER
  - TERMINAL TYPE
    - TB : TERMINAL BOARD
    - TC : TERMINAL CABINET
  - TERMINAL CLASSIFICATION
    - D : DATA
    - FA : FIRE ALARM
    - S : SECURITY
    - T : TELEPHONE
    - TV : TELEVISION
  - BUILDING NUMBER (WHEN APPLICABLE)

LIGHTING

- LUMINAIRE, RECESSED IN CEILING.
- LUMINAIRE, SURFACE MOUNTED.
- SUSPENDED LINEAR LUMINAIRE. SUSPENSION POINTS ARE GRAPHIC ONLY AND DO NOT REPRESENT ACTUAL LOCATION OR QUANTITY.
- LUMINAIRE, WALL MOUNTED.
- STRIP LUMINAIRE, SURFACE OR PENDANT MOUNTED.
- STRIP LUMINAIRE, SURFACE MOUNTED IN ARCHITECTURAL CEILING COVE.
- STRIP LUMINAIRE, SURFACE MOUNTED VERTICALLY ON WALL OR IN COVE.
- ROUND DOWNLIGHT LUMINAIRE, RECESSED IN CEILING.
- SQUARE DOWNLIGHT LUMINAIRE, RECESSED IN CEILING.
- DOWNLIGHT/INDUSTRIAL LUMINAIRE, SURFACE OR PENDANT MOUNTED.
- DIRECTIONAL LUMINAIRE, RECESSED IN CEILING.
- DIRECTIONAL LUMINAIRE, SURFACE OR PENDANT MOUNTED.
- LINEAR, MULTI-HEAD, ADJUSTABLE ACCENT LUMINAIRES, RECESSED IN CEILING.
- LINEAR WALLWASH LUMINAIRE, RECESSED IN CEILING.
- LINEAR WALLWASH LUMINAIRE, SURFACE OR PENDANT MOUNTED.
- SCONCE LUMINAIRE, WALL MOUNTED.
- DECORATIVE LUMINAIRE, PENDANT MOUNTED.
- EXIT SIGN LUMINAIRE, CEILING OR WALL MOUNTED WITH DIRECTIONAL ARROWS AS NOTED ON PLANS. WORD 'EXIT' TO BE LOCATED IN SHADED FACE(S).
- SHADING OF ANY LUMINAIRE INDICATES CRITICAL/STANDBY LIGHTING.
- HALF SHADING OF ANY LUMINAIRE INDICATES EMERGENCY/EGRESS LIGHTING.
- SINGLE-HEAD AREA LUMINAIRE WITH BRACKET ARM AND POLE, MOUNTED TO CONCRETE BASE.
- TWO-HEAD AREA LUMINAIRE WITH BRACKET ARMS AND POLE, MOUNTED TO CONCRETE BASE.
- SINGLE-HEAD AREA POST-TOP LUMINAIRE WITH POLE, MOUNTED TO CONCRETE BASE.
- AREA LUMINAIRE, SURFACE OR RECESSED MOUNTED TO WALL.
- LUMINAIRE BOLLARD, MOUNTED TO CONCRETE BASE.
- GROUNDWELL LUMINAIRE MOUNTED FLUSH IN FINISHED GRADE.
- FLOODLIGHT LUMINAIRE, STANCHION MOUNTED ABOVE GRADE.
- LINEAR SIGN-LIGHT LUMINAIRE, STANCHION MOUNTED ABOVE GRADE.
- STEPLIGHT LUMINAIRE, WALL MOUNTED.

LINE VOLTAGE LIGHTING CONTROL

- S — SINGLE-POLE, SINGLE-THROW SWITCH, WALL MOUNTED, +42" UON.
- S^3 — THREE-WAY SWITCH, WALL MOUNTED, +42" UON.
- S^K — SINGLE-POLE, SINGLE-THROW SWITCH, KEY-OPERATED, WALL MOUNTED, +42" UON.
- S^D — WALLBOX DIMMER SWITCH, +42" UON. SIZED PER CONNECTED LOAD ON PLANS AND FURNISHED FOR LAMP SOURCE SERVED. PROVIDED FOR DERATING WHEN INSTALLED GANGED LOCATIONS.
- S^{TC} — SINGLE-POLE, TIMER CONTROLLED SWITCH, WALL MOUNTED, +42" UON.
- S^{WP} — SINGLE-POLE, SINGLE-THROW SWITCH WITH WEATHERPROOF COVER, WALL MOUNTED, +42" UON.
- S^M — DUAL LEVEL OCCUPANCY SENSOR SWITCH, WALL MOUNTED, +42" UON.
- S^{M1} — SINGLE LEVEL OCCUPANCY SENSOR SWITCH, WALL MOUNTED, +42" UON.
- S^{DM} — COMBINATION OCCUPANCY SENSOR AND DIMMER SWITCH, WALL MOUNTED, +42" UON.
- 924 — BYPASS DEVICE FOR CONTROLLED EMERGENCY LIGHTING.

RACEWAYS

- CONDUIT RUN EXPOSED ON WALL OR CEILING.
- CONDUIT RUN CONCEALED IN SLAB, UNDER SLAB OR UNDERGROUND.
- CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
- CONDUIT HOMERUN, CONTINUOUS RUN TO PANEL OR EQUIPMENT CABINET. HOMERUN CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT TURNED UP, CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT TURNED DOWN, CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT CAPPED OR STUBBED WITH INSULATING BUSHINGS, CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT SLEEVE, WITH INSULATING BUSHINGS.
- FLEXIBLE METALLIC CONDUIT, EQUIPMENT CONNECTION.
- CROSSMARKS ON BRANCH CIRCUIT CONDUIT RUNS INDICATE THE QUANTITY OF CONDUCTORS AS FOLLOWS (GROUND CONDUCTORS ARE NOT NOTED, BUT SHOULD BE INCLUDED IN EVERY CONDUIT WITH POWER CONDUCTORS):
  1. NO CROSSMARKS INDICATES TWO #12 AWG CONDUCTORS, UON.
  2. THREE TO SIX CROSSMARKS INDICATES THE QUANTITY OF #12 AWG CONDUCTORS, UON.
  3. SEVEN OR MORE CROSSMARKS INDICATES THE QUANTITY OF #10 AWG CONDUCTORS, UON.
- SURFACE RACEWAY; TYPE, DEVICE SPACING AND MOUNTING AS NOTED ON PLANS.
- CABLE TRAYS; SIZE, TYPE, AND MOUNTING AS NOTED ON PLANS.

FIRE ALARM

- SMOKE DETECTOR INITIATING DEVICE, CEILING MOUNTED IN FLUSH OR SURFACE JUNCTION BOX.
- SMOKE DETECTOR INITIATING DEVICE, IN-DUCT MOUNTED TYPE.
- HEAT DETECTOR INITIATING DEVICE, CEILING MOUNTED IN FLUSH OR SURFACE JUNCTION BOX.
- HEAT DETECTOR INITIATING DEVICE, WALL MOUNTED IN FLUSH JUNCTION BOX, MAXIMUM 6" BELOW CEILING.
- HEAT DETECTOR INITIATING DEVICE, MOUNTED TO STRUCTURE ABOVE SUSPENDED CEILING IN SURFACE JUNCTION BOX.
- F — MANUAL PULL STATION INITIATING DEVICE, WALL MOUNTED AT +48" UON.
- SPRINKLER SYSTEM WATER FLOW SWITCH, NIEC. SYMBOL DENOTES INTERFACE FOR MONITORING CONNECTION FROM FIRE ALARM SYSTEM.
- SPRINKLER SYSTEM TAMPER SWITCH, NIEC. SYMBOL DENOTES INTERFACE FOR MONITORING CONNECTION FROM FIRE ALARM SYSTEM.
- SPRINKLER SYSTEM POST INDICATING VALVE 'PIV', NIEC. SYMBOL DENOTES INTERFACE FOR MONITORING CONNECTION FROM FIRE ALARM SYSTEM. INCLUDE A REMOTE MOUNTED ADDRESSABLE MONITORING MODULE AT PIV.
- SM — REMOTE MOUNTED SINGLE INPUT, ADDRESSABLE, MONITORING MODULE FOR INITIATING CIRCUIT CONNECTION.
- DM — REMOTE MOUNTED DUAL INPUT, ADDRESSABLE, MONITORING MODULE FOR INITIATING CIRCUIT CONNECTION.
- CR — REMOTE MOUNTED PROGRAMMABLE CONTROL RELAY MODULE FOR ADDRESSABLE CONTROL.
- EOL — END-OF-LINE RESISTOR.
- FRAP — FIREMANS REMOTE ANNUNCIATOR PANEL FRAP, FLUSH WALL MOUNTED, +42" UON.
- AUDIBLE NOTIFICATION APPLIANCE, WALL MOUNTED, 6" BELOW CEILING OR +80" AFF, WHICHEVER IS LOWER.
- VISIBLE NOTIFICATION APPLIANCE, WALL MOUNTED, 6" BELOW CEILING OR +80" AFF, WHICHEVER IS LOWER. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- AUDIBLE/VISIBLE NOTIFICATION APPLIANCE, WALL MOUNTED, 6" BELOW CEILING OR +80" AFF, WHICHEVER IS LOWER. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- AUDIBLE NOTIFICATION APPLIANCE, CEILING MOUNTED IN FLUSH BACK BOX.
- VISIBLE NOTIFICATION APPLIANCE, CEILING MOUNTED IN FLUSH BACK BOX. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- AUDIBLE/VISIBLE NOTIFICATION APPLIANCE, CEILING MOUNTED IN FLUSH BACK BOX. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- 2 — MOTOR OPERATED FIRE/SMOKE DAMPER "FSD", NIEC. SYMBOL DENOTES FIRE ALARM INTERFACE WITH PROGRAMMABLE CONTROL RELAY FOR FSD CONTROL AND DUAL INPUT ADDRESSABLE MONITORING MODULE FOR POSITION MONITORING VIA END SWITCHES.
- FIRE ALARM BELL FOR SPRINKLER FLOW ANNUNCIATOR, NIEC, POWERED AND INSTALLED BY ELECTRICAL, WALL MOUNTED ON EXTERIOR OF BUILDING.
- HVAC — HVAC INTERFACE DEVICE. ROOM HVAC TO SHUT DOWN WHEN UNOCCUPIED.
- PLC — PLUG LOAD CONTROLLER, UL LISTED FOR CONTROLLING RECEPTACLES, 20A.

AUDIO/VISUAL

- 10 — FLAT PANEL DISPLAY, WALL MOUNTED AFF AS NOTED.

DIGITAL LIGHTING CONTROLS

- D — SINGLE ZONE DIMMER SWITCH WITH ON/OFF/DIM CAPABILITIES, WALL MOUNTED, +42" UON.
- S — SINGLE ZONE SWITCH WITH ON/OFF CAPABILITIES, WALL MOUNTED, +42" UON.
- SCE — SCENE OR MULTI-ZONE CONTROLLER WITH ON/OFF/DIM CAPABILITIES ZONE, WALL MOUNTED, +42" UON.
- LM — LIGHTING CONTROL OCCUPANCY SENSOR WITH DIMMING, WALL MOUNTED, +42" UON.
- LM — LIGHTING CONTROL OCCUPANCY SENSOR WITH SINGLE LEVEL SWITCHING, WALL MOUNTED, +42" UON.
- DS — DAYLIGHT HARVESTING SENSOR, CEILING MOUNTED.
- M — OCCUPANCY SENSOR, CEILING MOUNTED FOR AREA COVERAGE.
- LCP — LIGHTING CONTROL PANEL.

TELECOMMUNICATIONS

- #D/#V — QUANTITY OF DATA AND/OR VOICE TELECOMMUNICATIONS DEVICES.
- TELECOMMUNICATION DEVICE, WALL MOUNTED, +18" UON. 2 DATA DROPS, UON.
- TELECOMMUNICATION DEVICE, WALL MOUNTED, 6" ABOVE BACK SPLASH UON, BUT NO HIGHER THAN ADA REQUIREMENTS.
- WAP — WIRELESS ACCESS POINT, WALL MOUNTED, 8" BELOW FINISHED CEILING, UON. 2 DATA DROPS, UON.
- WAP — WIRELESS ACCESS POINT, CEILING MOUNTED. 2 DATA DROPS, UON.

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LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
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Key Plan:

Project No.: 25084
Drawn By: AS
Checked By: SW

No.	Description	Date	By

BID SET
6/23/2026

SYMBOLS

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LUMINAIRE SCHEDULE

LUMINAIRE SCHEDULE NOTES:
REFER TO SPECIFICATION "265000 LIGHTING" FOR DETAILS ON TIER REQUIREMENTS.

GENERAL NOTE: LUMINAIRES WITH EMERGENCY OR EM BATTERY BACKUP INDICATED SHALL HAVE BATTERY BACKUP FOR 90 MINUTES PER CEC.

TYPE	MANUFACTURER CATALOG NUMBER	DESCRIPTION	LIGHT SOURCE	DRIVER, TRANSFORMER	WATTAGE	VOLTAGE
F1	LITHONIA CPXIP-2X2-4000LM-80CRI-35K-PCSWM-MI N10-120 OR APPROVED EQUAL	2'X2' RECESSED LED PANEL WITH WHITE FINISH OR COLOR SELECTED BY ARCHITECT.	~4000 LUMEN 3500K LED	DIMMING	36 W	120 V
F1A	LITHONIA CPXIP-2X2-4000LM-80CRI-35K-PCSWM-MI N10-120-IP65 OR APPROVED EQUAL	SAME AS F1 BUT WET LOCATION RATED.	~4000 LUMEN 3500K LED	DIMMING	36 W	120 V
F1AE	LITHONIA CPXIP-2X2-4000LM-80CRI-35K-PCSWM-MI N10-120-E7W-IP65 OR APPROVED EQUAL	SAME AS F1A, BUT WITH EMERGENCY BATTERY BACKUP.	~4000 LUMEN 3500K LED	DIMMING	36 W	120 V
F1E	LITHONIA CPXIP-2X2-4000LM-80CRI-35K-PCSWM-MI N10-120-E7W OR APPROVED EQUAL	SAME AS F1, BUT WIT EMERGENCY BATTERY BACKUP.	~4000 LUMEN 3500K LED	DIMMING	36 W	120 V
F3	LITHONIA SL1D-L48-3000LM-FST-MVOLT-35K-80CRI-WH OR APPROVED EQUAL	LED STRIP LIGHT FOR BACK OF HOUSE APPLICATION 4' LENGTH NOMINAL.	~5000 LUMEN	DIMMING	30 W	120 V
F3A	LITHONIA SL1D-L96-6000LM-FST-MVOLT-35K-80CRI-WH OR APPROVED EQUAL	LED STRIP LIGHT FOR BACK OF HOUSE APPLICATION 8' LENGTH NOMINAL.	~6000 LUMEN 3500K LED	DIMMING	60 W	120 V
F3E	LITHONIA SL1D-L48-3000LM-FST-MVOLT-35K-80CRI-WH-E7W OR APPROVED EQUAL	SAME AS F3 BUT WITH EMERGENCY BATTERY PACK.	~3000 LUMEN 3500K LED	DIMMING	30 W	120 V
F4	GOTHAM EVO4 SERIES EVO4-35/15-AR-LD-WD-MVOLT-GZ10 OR APPROVED EQUAL.	RECESSED 4 INCH NOMINAL DIAMETER DOWNLIGHT WITH WHITE CONE AND TRIM. NOMINAL 45 DEGREE BEAM SPREAD.	~1500 LUMEN 3500K LED	DIMMING	14 W	UNIV
F4A	GOTHAM EVO4 SERIES EVO4SH-35/15-DFR-SOL-MVOLT-EZ1-NLT OR APPROVED EQUAL	SAME AS F4 BUT WITH SHOWER TRIM OPTION.	~1500 LUMEN 3500K LED	DIMMING	14 W	120 V
F4B	GOTHAM EVO4 SERIES IVO4-D-15LM-35K-80CRI-35D-MIN10-MVOLT-NLIGHT-NCH-SF-P-CLR-WR-LD-F OR APPROVED EQUAL	DOWNLIGHT WITH REGRESSED LIGHT SOURCE	~2500 LUMEN 3500K LED	DIMMING	14 W	UNIV
F4E	GOTHAM EVO4 SERIES EVO4-35/15-AR-LD-WD-MVOLT-GZ10-E10WCP OR APPROVED EQUAL	SAME AS F4, BUT WITH INTEGRAL EMERGENCY BATTERY BACKUP.	~1500 LUMEN 3500K LED	DIMMING	14 W	UNIV
F5	CORONET LS1 LS1 UPDN-(LENGTH ON PLANS)-35-LOW-UNV-DB-W-PS-24-FL-FL-NA-NA-STD OR APPROVED EQUAL	LINEAR RIGID PENDANT LED WITH UPLIGHT AND DOWNLIGHT. LENGTH PER DRAWINGS.	~450 LUMEN/FOOT 3500K LED	DIMMING	5 W / FT	120 V
F5E	CORONET LS1 LS1 UPDN-(LENGTH ON PLANS)-35-LOW-UNV-DB-W-PS-24-FL-FL-NA-EMPCK-STD OR APPROVED EQUAL	SAME AS F5, BUT WITH EMERGENCY BATTERY BACKUP.	~450 LUMEN/FOOT 3500K LED	DIMMING	5 W / FT	120 V
F6A	CORONET LOOP LOOP-3-3-35-MED-UNV-DB-W-ACP,C-SD-ACM OR APPROVED EQUAL	PENDANT MOUNTED DECORATIVE RING FIXTURE.	~2000 LUMEN	DIMMING	45 W	120 V
F6E	CORONET LOOP LOOP.5-5-35-MED-UNV-DB-W-ACP,C-SD-ACM-EMPCK OR APPROVED EQUAL	PENDANT MOUNTED DECORATIVE RING FIXTURE WITH INTEGRALEMERGENCY BATTERY BACKUP.	~3000 LUMEN 3500K LED	DIMMING	65 W	120 V
F7	CORONET EASY COVE EZ,C-(LENGTH ON PLANS)-35-LOW-UNV-DB-W-COVE-SD-ACM OR APPROVED EQUAL	COVE MOUNTED STRIP LIGHT FOR UPLIGHT.	~2000 LUMEN 3500K LED	DIMMING	5 W / FT	120 V
F8	BASO BASO 1.5-RTL-OP-35K-C80-UNV-010V-0600LF-ST-48IN OR APPROVED EQUAL	4' RECESSED LINEAR. CONFIRM COLOR WITH ARCHITECT. CONFIRM PART NUMBER BASED ON CEILING PRODUCT DEPTH.	~3200 LUMEN 3500K LED	DIMMING	23.6 W	UNIV
F8E	BASO BASO 1.5-RTL-OP-35K-C80-UNV-010V-0600LF-EM-ST-48IN OR APPROVED EQUAL	SAME AS F8, BUT WITH EMERGENCY BATTERY BACKUP.	~3200 LUMEN 3500K LED	DIMMING	23.6 W	UNIV
SF1A	LITHONIA DSX1 LED-P3-30K-70CRI-T4LG-MVOLT-PIR-DNAXD OR APPROVED EQUAL	POLE MOUNTED AREA LIGHT WITH CONCRETE BASE. TYPE 4 LOW GLARE DISTRIBUTION WITH INTEGRAL MOTION SENSOR. PROVIDE 4" SQUARE STEEL POLE AND MOUNTING HEIGHT PER DRAWINGS. DIM TO 20% WHEN NO MOTION IS DETECTED FOR 15 MINUTES. LUMINAIRE MOUNTED AT +17'-6".	~13400 LUMEN 3000K LED B4 U0 G2	DIMMING	102 W	UNIV
SF1B	LITHONIA DSX1 LED-P3-30K-70CRI-T1S-MVOLT-DNAXD OR APPROVED EQUAL	SAME AS SF1A EXCEPT TYPE 1 DISTRIBUTION.	~13400 LUMEN 3000K LED B2 U0 G2	DIMMING	102 W	UNIV
SF2	LITHONIA WDGE2 LED-P2SW-30K-80CRI-VFW-MVOLT-SRM OR APPROVED EQUAL	FORWARD THROW LED WALL PACK FOR BLDG EXTERIOR. WET LOCATION RATED. LIGHTS WILL RECEVIE DIMMING SIGNAL FROM WALL MOUNTED MOTION SENSORS AND DIM TO 35% WHEN AREA IS UNOCCUPIED FOR 15 MINUTES.	~2000 LUMEN 3000K LED B0 U0 G0	DIMMING	15 W	120 V
SF2E	LITHONIA	SAME AS SF2 BUT WITH EMERGENCY BATTERY BACKUP.	~2000 LUMEN 3000K LED B0 U0 G0	DIMMING	15 W	UNIV
SF3E	A-LIGHT LIN DIRECT-SP-LS-35-80CRI-U-HE-NAIR-ES-OF OR APPROVED EQUAL	LINEAR LED, WET LOCATION RATED WITH EMERGENCY BATTERY BACKUP. PROVIDE INTEGRAL MOTION SENSOR.	~2400 LUMEN 3000K LED	DIMMING	7 W / FT	120 V
SF4	LITHONIA EAX1-P1-SWW2-SO-UVOLT-SRA-DMG OR APPROVED EQUAL	POLE MOUNTED LED AREA LIGHT. WET LOCATION RATED. LIGHTS WILL RECEIVE DIMMING SIGNAL FROM WALL MOUNTED MOTION SENSORS AND DIM TO 35% WHEN AREA IS UNOCCUPIED FOR 15 MINUTES.	~5100 LUMENS 3000K LED	DIMMING	34 W	120 V
SF5	LIGHTOLEIR. CITY OF LATHROP STANDARD STREETLIGHT. REFER TO DEPARTMENT OF PUBLIC WORKS DOCUMENT E-4.	POLE MOUNTED AREA LIGHT WITH DECORATIVE POLE PER CITY STANDARDS. PHOTOCELL CONTROLLED OR AS PER DIRECTED BY CITY. PROVIDE 20' POLE HEIGHT.		CITY STANDARD	110 W	277 V
SF6	ALW CRY3-WL-13-83-30-40-DF-D-V10-S-SS04 OR APPROVED EQUAL	SURFACE MOUNT AIMABLE DOWNLIGHT WITH ADJUSTABLE SWIVEL STEM AND ADJUSTABLE YOKE. WET LOCATION RATED. DRIVER LOCATED WITHIN FIXTURE HOUSING. SIGNAGE LIGHTING.	~1300 LUMEN 3000K LED	DIMMING	12 W	UNIV
SF7	BEGA IN- GRADE FLOOD/ WALL WASHER	IN GRADE WALL WASH FLOODLIGHT WITH STRAIGHT LINE CUTOFF DISTRIBUTION. IP 67 RATED. FINISH PER ARCHITECT. PROVIDE PHOTOMETRIC PRIOR TO INSTALL TO CONFIRM LOCATION AND SIGN ILLUMINATION.	~2300 LUMEN 3000K LED	DIMMING	29.2 W	120 V
SF8	EAGLE MOUNTAIN SG-3K-IHR-CB-M-BLANK-150-SG-IG-DRIVER OR APPROVED EQUAL	LED DOWNLIGHT MOUNTED TO TOP OF FLAG POLE. IP 67 RATED. CONFIRM TRUCK FINISH WITH ARCHITECT.	~1000 LUMEN 3000K LED	NON-DIMMING	13 W	UNIV
X1	PARAFLEX PFX5503ETXTEU-3-G-W-EM OR APPROVED EQUAL	SINGLE FACE WALL MOUNTED LED EXIT SIGN WITH FIELD SELECTABLE FACES/ CHEVERONS. PROVIDE BATTERY BACK UP OPTION.	LED	NON-DIMMING	5 W	UNIV
X2	PARAFLEX PFX5503ETXTEU-3-G-W-EM OR APPROVED EQUAL	DUAL FACE SURFACE MOUNTED LED EXIT SIGN WITH FIELD SELECTABLE FACES/ CHEVERONS. PROVIDE BATTERY BACK UP OPTION.	LED	NON-DIMMING	5 W	UNIV

MECHANICAL EQUIPMENT COORDINATION SCHEDULE

GENERAL NOTES:
A. REFER TO FEEDER SCHEDULE FOR CONDUCTOR AND CONDUIT REQUIREMENTS.
B. WHERE FEEDERS ARE INSTALLED IN AMBIENT TEMPERATURES ABOVE 30 DEGREES C (86 DEGREES F) APPLY CORRECTION FACTORS PER CEC 310.15(B)(2).
C. CONTRACTOR SHALL FIELD VERIFY NAMEPLATE MCA AND MOCP RATINGS OF SUBMITTED/INSTALLED EQUIPMENT AND REPORT DISCREPANCIES TO THE ENGINEER.
D. CONTRACTOR INSTALLED FUSES SHALL BE COORDINATED WITH THE EQUIPMENT NAMEPLATE AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
E. GROUND CONDUCTORS FOR THESE FEEDERS SHALL BE SIZED BASED ON THE OVERCURRENT DEVICE RATING (PER CEC 250.122) AND WILL BE INSTALLED IN PLACE OF THE GROUND CONDUCTOR IDENTIFIED IN THE FEEDER SCHEDULE.
DISCONNECT TYPES: SM = MOTOR RATED SWITCH, F = FUSED, NF = NON-FUSED
REMARKS:
1. POWERED THROUGH OUTDOOR UNIT. REFER TO MANUFACTURER'S WIRING INSTRUCTIONS.
2. FEEDER HAS BEEN UPSIZED TO ACCOUNT FOR VOLTAGE DROP.

		ELECTRICAL DATA							DISCONNECT				STARTER			VFD				
EQUIP TAG	DESCRIPTION	VOLTAGE	PH	MOCP	MCA	FLA	HP	kVA	RATING	TYPE	FUSE	DIVISION (FURN/INST)	NEMA SIZE	COMBO DISC	DIVISION (FURN/INST)	COMBO DISC	DIVISION (FURN/INST)	PANEL - OKT NUMBER	FEEDER SIZE	GROUND CONDUCTOR (NOTE E)	REMARKS
CP-1	CIRCULATING PUMP	120 V	1	15 A	1.88 A	1.5 A		0.18 kVA	20 A	SM	-	26	-		-		-	LB-1	202	1 #12 CU	
EF-1	EXHAUST FAN	120 V	1	15 A	4 A	3.2 A		0.38 kVA	20 A	SM	-	26	-		-		-	LB-3	202	1 #12 CU	
EF-2	EXHAUST FAN	120 V	1	15 A	2 A	1.6 A		0.19 kVA	20 A	SM	-	26	-		-		-	LB-5	202	1 #12 CU	
EF-3	EXHAUST FAN	120 V	1	15 A	2 A	1.6 A		0.19 kVA	20 A	SM	-	26	-		-		-	LB-7	202	1 #12 CU	
EWH-1	ELECTRIC WATER HEATER	208 V	3	225 A	104.13 A	83.3 A		29.97 kVA	200 A	F	150 AF	26	-		-		-	MSB-14	1253	1 #6 CU	
PHP-1	HEAT PUMP	208 V	3	150 A	145 A	125 A		44.98 kVA	200 A	F	150 AF	26	-		-		-	MSB-5	1503	1 #6 CU	
PHP-2	HEAT PUMP	208 V	3	150 A	114 A	110 A		39.58 kVA	200 A	F	150 AF	26	-		-		-	MSB-6	1253	1 #6 CU	
PHP-3	HEAT PUMP	208 V	3	70 A	57 A	49 A		17.63 kVA	100 A	F	70 AF	26	-		-		-	MSB-7	703	1 #8 CU	
PHP-4	HEAT PUMP	208 V	3	70 A	67 A	58 A		20.87 kVA	100 A	F	70 AF	26	-		-		-	MSB-8	803	1 #8 CU	
PHP-5	HEAT PUMP	208 V	3	80 A	69 A	59 A		21.23 kVA	100 A	F	80 AF	26	-		-		-	MSB-9	703	1 #8 CU	
PHP-6	HEAT PUMP	208 V	3	150 A	140 A	120 A		43.18 kVA	200 A	F	150 AF	26	-		-		-	MSB-10	1503	1 #6 CU	
PHP-7	HEAT PUMP	208 V	3	150 A	74 A	63 A		22.67 kVA	200 A	F	150 AF	26	-		-		-	MSB-11	903	1 #6 CU	
PHP-8	HEAT PUMP	208 V	3	70 A	67 A	58 A		20.87 kVA	100 A	F	70 AF	26	-		-		-	MSB-12	703	1 #8 CU	
PHP-9	HEAT PUMP	208 V	3	150 A	140 A	120 A		43.18 kVA	200 A	F	150 AF	26	-		-		-	MSB-13	1503	1 #6 CU	
SAC-1	SPLIT SYSTEM INDOOR	208 V	1	15 A	1.25 A	1 A		0.21 kVA	30 A	F	15 AF	26	-		-		-		202	1 #12 CU	1
SCU-1	SPLIT SYSTEM OUTDOOR	208 V	1	37 A	27.5 A	22 A		4.58 kVA	60 A	F	40 AF	26	-		-		-	LB-9,11	302	1 #10 CU	

LIGHTING CONTROL MATRIX / SEQUENCE OF OPERATIONS

ROOM NAME/NUMBER	ZONE	LOAD TYPE	OPERATING MODE (HOURS)	OCC MODE - ON	OCC MODE - OFF	TIME DELAY (MIN)	DAYLIGHT SENSOR SETPOINT PRIMARY/SKYLIT [2]	DAYLIGHT SENSOR SETPOINT SECONDARY [2]	RECEPTACLE CONTROL	LIGHTING CONTROL NETWORK	AUTOMATIC DEMAND RESPONSE	HVAC INTERFACE	A/V INTERFACE	PARTITION INTERFACE
				OCCUPANCY SENSOR			DAYLIGHT SENSOR							
Electrical, IDF, Mechanical, Fire Rooms	[6]	NON-DIM 1	NORMAL	N/A	N/A	N/A	N/A	N/A	N/A	YES	NO	N/A	N/A	N/A
Janitorial, Storage Rooms	[6]	NON-DIM 1	NORMAL	100%	auto off	5 [3]	N/A	N/A	N/A	YES	NO	N/A	N/A	N/A
Single User Restroom, Quiet/Lactation Room	[6]	NON-DIM 1	NORMAL	100%	auto off	10	N/A	N/A	N/A	YES	NO	N/A	N/A	N/A
			AFTER	100%	auto off	5	N/A	N/A	N/A		NO	N/A	N/A	N/A
Corridors Without Daylighting	[6]	NON-DIM 1	NORMAL	100%	20%	30	N/A	N/A	N/A	YES	NO	N/A	N/A	N/A
			AFTER	100%	auto off	20	N/A	N/A						
Small Private Office, Work Room, Exam Room,	[6]	NON-DIM 5 0-10V DIM 5	NORMAL	85%	auto off 5	15	N/A	N/A	YES [4]	YES	TBD	N/A	N/A	N/A
			AFTER	85%	auto off 5	5	N/A	N/A						
Break Rooms With Daylighting	[6]	0-10V DIM	NORMAL	85%	auto off	15	35	25	YES [4]	YES	TBD	N/A	N/A	N/A
			AFTER	85%	auto off	5	35	25						
Large Training/Conference Room Without Daylighting	[6]	0-10V DIM	NORMAL	85%	auto off	15	N/A	N/A	YES [4]	YES	TBD	N/A	N/A	N/A
			AFTER	85%	auto off	5	N/A	N/A						
Sally Port	[6]	0-10V DIM	NORMAL	100%	auto off	15	N/A	N/A	NO	YES	TBD	N/A	N/A	N/A
			AFTER	100%	auto off	5	N/A	N/A						
Main Lobby, Reception	a-d	0-10V DIM	NORMAL	85%	auto off	15	N/A	N/A	YES [4]	YES	TBD	N/A	NO	N/A
			AFTER	man	auto off	5	N/A	N/A						
Kennel Areas	[6]	0-10V DIM	NORMAL	man	man	N/A	N/A	N/A	NO	YES	TBD	N/A	N/A	N/A
			AFTER	man	man 3	N/A	N/A	N/A						
Multipurpose	a-c	0-10V DIM	NORMAL	85%	auto off	15	N/A	N/A	YES [4]	YES	TBD	N/A	NO	N/A
			AFTER	man	auto off	5	N/A	N/A						

1. Area does not require multi-level controls: the area is less than 100 square feet; or the lighting load does not exceed 0.5 watts/s.f.; or per EXCEPTION 2 to Section 130.1(b), the area has only one luminaire with no more than two lamps.
2. All spaces with available daylight shall utilize daylight harvesting.
3. Time clock shall provide automatic shut off control as noted on plans.
4. Provide in Private Offices, Open Office Space, Reception/Lobby, Conference Rooms, Break Rooms/Kitchenettes.
5. Where shown' as applicable on the plans.
6. Spaces contain only one lighting zone.

RELAY PANEL SCHEDULE

PANEL NAME:	LCP	VOLTAGE:	120V	MOUNTING:	SURFACE
LOCATION:	MAIN ELECTRICAL ROOM			ENCLOSURE:	NEMA 1, IP20

CONTROL RELAY			CIRCUIT CONTROLLED				EXTERNAL CONTROL		
NUMBER	VOLTAGE	AMP	PANEL	CIRCUIT	ZONE	AREA SERVED	ON	OFF	CONTROL SCHEME
1	120V	20	LC	9	R1	DRIVE AND PARKING AREAS	PHOTOCELL	PHOTOCELL	COORDINATE SETPOINT WITH CITY (1)
2	120V	20	LC	5	R2	BUILDING MOUNT EXTERIOR GENERAL	PHOTOCELL	PHOTOCELL	COORDINATE SETPOINT WITH CITY
3	120V	20	LC	1,7	R3	BUILDING MOUNT EXTERIOR KENNEL AREAS	PHOTOCELL	PHOTOCELL	COORDINATE SETPOINT WITH CITY
4	120V	20	LC	4	R4	WALL LIGHTING			
5	120V	20	LC	2	R5	BENCH LIGHTING			
7						SPARE			

NOTES:
1. AUTOMATIC SCHEDULING CONTROLS PER T24 PART 6 130.2(c)2.B SHALL BE CAPABLE OF CONTROLLING RELAY TO SHUT OFF LIGHTING IF PROGRAMMED.
GENERAL NOTES:
A. REFER TO LUMINAIRE SCHEDULE FOR INFORMATION ON LUMINAIRES WITH MOTION SENSORS.

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Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25084
Drawn By: AS
Checked By: SW

No.	Description	Date	By
1	PC2	2026-05-05	
2	PC3	2026-06-08	

BID SET
6/23/2026

SCHEDULES

E0.3

8/17/2026 1:58:04 PM

Switchboard: MSB

Location: ELECT. 154 **Volts:** 120/208 **A.I.C. Rating:** 42KAIC
Supply From: UTX **Phases:** 3 **Main Type:** MCB
Mounting: FLOOR-MOUNTED **Wires:** 4 **Bus Rating:** 1600 A
Enclosure: NEMA 1 **Main Rating:** 1600 A

##	Circuit Description	Load	Remarks
1	PANEL LC	6.83 kVA	
2	PANEL LB	5.53 kVA	
3	PANEL LA SECT. 1	92.62 kVA	
4	PANEL SLA	31.98 kVA	
5	PHP-1	44.98 kVA	
6	PHP-2	39.58 kVA	
7	PHP-3	17.63 kVA	
8	PHP-4	20.87 kVA	
9	PHP-5	21.23 kVA	
10	PHP-6	43.18 kVA	
11	PHP-7	22.67 kVA	
12	PHP-8	20.87 kVA	
13	PHP-9	43.18 kVA	
14	EWH-1	29.97 kVA	
15	space	--	
16	space	--	
17	space	--	
18	space	--	
19	space	--	
20	space	--	
	Total Load:	441.13...	
	Total Amps:	1224.45 A	

Load Classification	Conn. Load	Demand Factor	Est. Demand	Panel Totals
(Ev) Electric Vehicle Charging Station	26.64 kVA	125.00%	33.3 kVA	**Connected Load:** 441.13 kVA
(L) Lighting	8.06 kVA	125.00%	10.07 kVA	**Connected Amps:** 1224.45 A
(R) Receptacle	41.1 kVA	62.17%	25.55 kVA	**Est. Demand Load:** 445.9 kVA
(Nc) Non-Continuous	45.21 kVA	100.00%	45.21 kVA	**Est. Demand Amps:** 1237.69 A
(C) Continuous	1.6 kVA	125.00%	2 kVA	
(M) Motor	318.52 kVA	103.53%	329.77 kVA	

Notes:

Branch Panel: SLA

Location: ELECT. 154 **Served From** MSB **Phases** 3 **A.I.C. Rating:** 42kAIC **Bus Rating** 200 A
Mounting: SURFACE **Volts:** 120/208 **Wires** 4 **Main Type:** MCB **Main Rating:** 200 A

LC	Load Served	Amp	P	#	A (kVA)		B (kVA)		C (kVA)		#	P	Amp	Load Served	LC
L	EMERG. LTG. NON KENNEL	20 A	1	1	0.73	0.70					2	1	20 A	FRZR. FAN COIL	M
L	LTG. KENNELS	20 A	1	3			0.50	1.60			4	1	20 A	FRZR. DOOR HEATER/LTG.	C
R	FOOD PREP 139, FOOD STOR...	20 A	1	5					1.26	0.18	6	1	20 A	REC. FRZR.	R
R	FOOD PREP 139 FRIDGE REC	20 A	1	7	1.20	2.04					8				
R	FOOD PREP 139 FRIDGE REC	20 A	1	9			1.20	2.04			10	3	40 A	FRZR. CONDENSER	M
Nc	UPS IT ROOM	100 A	2	11					7.50	2.04	12				
				13	7.50	--					14	1	--	space	--
Nc	FOOD PREP 139 ICE	20 A	1	15			0.61	--			16	1	--	space	--
R	REC. RM 100, 149	20 A	1	17					1.08	--	18	1	--	space	--
R	REC. RM 125 FRIDGE	20 A	1	19	1.80	--					20	1	--	space	--
--	SPARE	20 A	1	21			0.00	--			22	1	--	space	--
--	space	--	1	23					--	--	24	1	--	space	--
--	space	--	1	25	--	--					26	1	--	space	--
--	space	--	1	27			--	--			28	1	--	space	--
--	space	--	1	29					--	--	30	1	--	space	--
--	space	--	1	31	--	--					32	1	--	space	--
--	space	--	1	33			--	--			34	1	--	space	--
--	space	--	1	35					--	--	36	1	--	space	--
--	space	--	1	37	--	--					38	1	--	space	--
--	space	--	1	39			--	--			40	1	--	space	--
--	space	--	1	41					--	--	42	1	--	space	--
	Connected Load:				13.97 kVA		5.95 kVA		12.06 kVA						
	Feed-Thru Load:				0 kVA		0 kVA		0 kVA						
	Total Amps:				124.21 A		49.62 A		108.39 A						

Load Classification	Conn. Load	Demand Factor	Code Demand	Panel Totals
(C) Continuous	1.6 kVA	125.00%	2 kVA	**Connected Load:** 31.98 kVA
(L) Lighting	1.23 kVA	125.00%	1.54 kVA	**Connected Amps:** 88.77 A
(M) Motor	6.82 kVA	122.43%	8.35 kVA	**Code Demand Load:** 34.22 kVA
(Nc) Non-Continuous	15.61 kVA	100.00%	15.61 kVA	**Code Demand Amps:** 94.98 A
(R) Receptacle	6.72 kVA	100.00%	6.72 kVA	

Notes:

Branch Panel: LA SECT. 1

Location: ELECT. 154 **Served From** MSB **Phases** 3 **A.I.C. Rating:** 42KAIC **Bus Rating** 400 A
Mounting: SURFACE **Volts:** 120/208 **Wires** 4 **Main Type:** MLO **Main Rating:** NA

LC	Load Served	Amp	P	#	A (kVA)		B (kVA)		C (kVA)		#	P	Amp	Load Served	LC
R	REC. RM 168, 173	20 A	1	1	1.26	0.90					2	1	20 A	REC. RM 112, 152	R
R	REC. RM 140, 141, 146, 179	20 A	1	3			1.26	0.90			4	1	20 A	REC. RM 114, 115, 164, 166	R
R	REC. RM 124, 137, 138, 151	20 A	1	5					1.08	1.08	6	1	20 A	REC. RM 100, 162, 163	R
R	REC. RM 138, 154	20 A	1	7	0.90	0.90					8	1	20 A	FLR. BX. RM 103	R
R	REC. RM 132, 136, 137, 138	20 A	1	9			1.08	1.08			10	1	20 A	REC. RM 100, 103	R
R	REC. RM 126 WASHER 2	30 A	2	11					1.85	1.08	12	1	20 A	REC. RM 103	R
				13	1.85	0.72					14	1	20 A	REC. RM 118, 169	R...
R	REC. RM 126 DRYER 1	20 A	1	15			0.80	0.90			16	1	20 A	REC. RM 117, 120, 121, 145, 157	R
R	REC. RM 126 DRYER 2	20 A	1	17					0.80	0.72	18	1	20 A	REC. RM 117, 122, 123, 144	R
R	REC. RM 124, 131, 134	20 A	1	19	1.08	1.85					20	2	30 A	REC. RM 126 WASHER 1	R
R	REC. RM 124, 125, 150	20 A	1	21			1.08	1.85			22				
--	SPARE	20 A	1	23					0.00	1.20	24	1	20 A	S-PORT ROLL DR. SOUTH	Nc
R	REC. RM 111 PRINTER	20 A	1	25	0.18	1.20					26	1	20 A	S-PORT ROLL DR. NORTH	Nc
R	REC. RM 111, 129, 158	20 A	1	27			0.90	1.20			28	1	20 A	FOOD STOR. ROLL DR.	Nc
R...	REC. RM 107, 142, 153	20 A	1	29					0.90	0.00	30	1	20 A	SPARE	--
R	REC. RM 107, 153, 165	20 A	1	31	0.90	0.00					32	1	20 A	SPARE	--
R	REC. RM 113, 165	20 A	1	33			0.90	0.00			34	1	20 A	SPARE	--
R	REC. RM 106, 113, 165	20 A	1	35					0.90	0.00	36	1	20 A	SPARE	--
Nc	RANGE EXHST. HOOD RM 130	20 A	1	37	0.30	1.80					38	1	20 A	REC. RM 103 FRIDGE	R
Nc	ELECT. RANGE RM 130	60 A	2	39			4.40	0.18			40	1	20 A	REC. RM 127 PRINTER	R
				41					4.40	0.18	42	1	20 A	REC. RM 147 PRINTER	R
	Connected Load:				13.84 kVA		16.53 kVA		14.19 kVA						
	Feed-Thru Load:				14.71 kVA		16.54 kVA		16.82 kVA						
	Total Amps:				237.89 A		278.71 A		261.54 A						

Load Classification	Conn. Load	Demand Factor	Code Demand	Panel Totals
(Ev) Electric Vehicle Charging Station	26.64 kVA	125.00%	33.3 kVA	**Connected Load:** 92.62 kVA
(M) Motor	2 kVA	112.50%	2.25 kVA	**Connected Amps:** 257.09 A
(Nc) Non-Continuous	29.6 kVA	100.00%	29.6 kVA	**Code Demand Load:** 87.34 kVA
(R) Receptacle	34.38 kVA	64.54%	22.19 kVA	**Code Demand Amps:** 242.43 A

Notes:

Branch Panel: LC

Location: ELECT. 154 **Served From** MSB **Phases** 3 **A.I.C. Rating:** 42KAIC **Bus Rating** 100 A
Mounting: SURFACE **Volts:** 120/208 **Wires** 4 **Main Type:** MCB **Main Rating:** NA

LC	Load Served	Amp	P	#	A (kVA)		B (kVA)		C (kVA)		#	P	Amp	Load Served	LC
L	LTG. ADOPTION HALL	20 A	1	1	1.13	0.16					2	1	20 A	LTG. LANDSCAPE BENCHES	L
L	LTG. LOBBY & CAT ADOPTION	20 A	1	3			1.46	0.27			4	1	20 A	LTG. LANDSCAPE YARDS	L
L	LTG. STAFF HALL	20 A	1	5					1.45	0.00	6	1	20 A	SPARE	--
L	LTG. VET RM. & MED ISO. HALL	20 A	1	7	1.27	0.00					8	1	20 A	SPARE	--
L	(1) LTG. PARKING LOT	20 A	1	9			1.05	0.00			10	1	20 A	SPARE	--
L	(1) ENTRY SIGN LTG	20 A	1	11					0.04	0.00	12	1	20 A	SPARE	--
--	SPARE	20 A	1	13	0.00	--					14	1	--	space	--
--	SPARE	20 A	1	15			0.00	--			16	1	--	space	--
--	SPARE	20 A	1	17					0.00	--	18	1	--	space	--
--	space	--	1	19	--	--					20	1	--	space	--
--	space	--	1	21			--	--			22	1	--	space	--
--	space	--	1	23					--	--	24	1	--	space	--
--	space	--	1	25	--	--					26	1	--	space	--
--	space	--	1	27			--	--			28	1	--	space	--
--	space	--	1	29					--	--	30	1	--	space	--
--	space	--	1	31	--	--					32	1	--	space	--
--	space	--	1	33			--	--			34	1	--	space	--
--	space	--	1	35					--	--	36	1	--	space	--
--	space	--	1	37	--	--					38	1	--	space	--
--	space	--	1	39			--	--			40	1	--	space	--
--	space	--	1	41					--	--	42	1	--	space	--
	Connected Load:				2.56 kVA		2.78 kVA		1.48 kVA						
	Feed-Thru Load:				0 kVA		0 kVA		0 kVA						
	Total Amps:				22.73 A		24.57 A		12.37 A						

Load Classification	Conn. Load	Demand Factor	Code Demand	Panel Totals
(L) Lighting	6.83 kVA	125.00%	8.54 kVA	**Connected Load:** 6.83 kVA
				Connected Amps: 18.96 A
				Code Demand Load: 8.54 kVA
				Code Demand Amps: 23.69 A

Notes:
(1) EXTERIOR LIGHTING CIRCUITS TO BE EQUIPED WITH A BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION.

Branch Panel: LA SECT. 2

Location: ELECT. 154 **Served From** LA **Phases** 3 **A.I.C. Rating:** 42KAIC **Bus Rating** 400 A
Mounting: SURFACE **Volts:** 120/208 **Wires** 4 **Main Type:** MLO **Main Rating:** NA

LC	Load Served	Amp	P	#	A (kVA)		B (kVA)		C (kVA)		#	P	Amp	Load Served	LC
R	REC. ROOF	20 A	1	43	0.90	5.47					44				
R	REC. RM 142 PRINTER	20 A	1	45			0.18	5.47			46	3	60 A	FOOD PREP 139 DISHWSHR.	Nc
R	REC. RM 131 PRINTER	20 A	1	47					0.18	5.47	48				
R	REC. RM 129 PRINTER	20 A	1	49	0.18	0.00					50	1	20 A	SPARE	--
R	REC. RM 141 PRINTER	20 A	1	51			0.18	0.00			52	1	20 A	SPARE	--
R	REC. RM 115 PRINTER	20 A	1	53					0.18	0.00	54	1	20 A	SPARE	--
Nc	ADOPT. HALL WTR. FOUNTAIN	20 A	1	55	0.50	0.00					56	1	20 A	SPARE	--
Ev	PKG. LOT EV-1/EV-2 [1]	40 A	2	57			3.33	--			58	1	--	space	--
				59					3.33	--	60	1	--	space	--
Ev	PKG. LOT EV-3/EV-4 [1]	40 A	2	61	3.33	--					62	1	--	space	--
				63			3.33	--			64	1	--	space	--
Ev	PKG. LOT EV CAPABLE EV-5/EV-6 [1]	40 A	2	65					3.33	--	66	1	--	space	--
				67	3.33	--					68	1	--	space	--
Ev	PKG. LOT EV CAPABLE EV-7/EV-8 [1]	40 A	2	69			3.33	--			70	1	--	space	--
				71					3.33	--	72	1	--	space	--
--	SPARE	20 A	1	73	0.00	--					74	1	--	space	--
--	SPARE	20 A	1	75			0.00	--			76	1	--	space	--
M	MOTOR GATE S.	20 A	1	77					1.00	--	78	1	--	space	--
M	MOTOR GATE N.	20 A	1	79	1.00	--					80	1	--	space	--
R...		0 A	1	81			0.72	--			82	1	--	space	--
--	space	--	1	83					--	--	84	1	--	space	--
	Connected Load:				14.71 kVA		16.54 kVA		16.82 kVA						
	Feed-Thru Load:				0 kVA		0 kVA		0 kVA						
	Total Amps:				122.56 A		140.15 A		142.49 A						

Load Classification	Conn. Load	Demand Factor	Code Demand	Panel Totals
(Ev) Electric Vehicle Charging Station	26.64 kVA	125.00%	33.3 kVA	**Connected Load:** 48.06 kVA
(M) Motor	2 kVA	112.50%	2.25 kVA	**Connected Amps:** 133.4 A
(Nc) Non-Continuous	16.9 kVA	100.00%	16.9 kVA	**Code Demand Load:** 54.97 kVA
(R) Receptacle	2.52 kVA	100.00%	2.52 kVA	**Code Demand Amps:** 152.58 A

Notes:
1. EV CHARGER INPUT CURRENT SHALL BE SET TO 32A MAXIMUM. BASIS OF DESIGN IS CHARGEPOINT CPF 50 POWER SHARE.

Branch Panel: LB

Location: ELECT. 154 **Served From** MSB **Phases** 3 **A.I.C. Rating:** 42KAIC **Bus Rating** 100 A
Mounting: SURFACE **Volts:** 120/208 **Wires** 4 **Main Type:** MLO **Main Rating:** NA

LC	Load Served	Amp	P	#	A (kVA)		B (kVA)		C (kVA)		#	P	Amp	Load Served	LC
M	CP-1	20 A	1	1	0.18	0.00					2	1	20 A	SPARE	--
M	EF-1	20 A	1	3			0.38	0.00			4	1	20 A	SPARE	--
M	EF-2	20 A	1	5					0.19	0.00	6	1	20 A	SPARE	--
M	EF-3	20 A	1	7	0.19	0.00					8	1	20 A	SPARE	--
M	SCU-1	40 A	2	9			2.29	0.00			10	1	20 A	SPARE	--
				11					2.29	0.00	12	1	20 A	SPARE	--
--	space	--	1	13	--	0.00					14	1	20 A	SPARE	--
--	space	--	1	15			--	--			16	1	--	space	--
--	space	--	1	17					--	--	18	1	--	space	--
--	space	--	1	19	--	--					20	1	--	space	--
--	space	--	1	21			--	--			22	1	--	space	--
--	space	--	1	23					--	--	24	1	--	space	--
--	space	--	1	25	--	--					26	1	--	space	--
--	space	--	1	27			--	--			28	1	--	space	--
--	space	--	1	29					--	--	30	1	--	space	--
--	space	--	1	31	--	--					32	1	--	space	--
--	space	--	1	33			--	--			34	1	--	space	--
--	space	--	1	35					--	--	36	1	--	space	--
--	space	--	1	37	--	--					38	1	--	space	--
--	space	--	1	39			--	--			40	1	--	space	--
--	space	--	1	41					--	--	42	1	--	space	--
	Connected Load:				0.37 kVA		2.67 kVA		2.48 kVA						
	Feed-Thru Load:				0 kVA		0 kVA		0 kVA						
	Total Amps:				3.1 A		24.99 A		23.39 A						

Load Classification	Conn. Load	Demand Factor	Code Demand	Panel Totals
(M) Motor	5.53 kVA	120.71%	6.67 kVA	**Connected Load:** 5.53 kVA
				Connected Amps: 15.34 A
				Code Demand Load: 6.67 kVA
				Code Demand Amps: 18.52 A

Notes:

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

LICENSED PROFESSIONAL ENGINEER
REVISED
EXP. 08-31-27
SCOTT WHEELER
ELECTRICAL
STATE OF CALIFORNIA

The Engineering Enterprise
CONSULTING ENGINEERS
ALAMEDA | AUBURN | LOS ANGELES
NEOSHO | SAN DIEGO | SANTA BARBARA
https://www.engent.com

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25084
Drawn By: AS
Checked By: SW

No.	Description	Date	By
1	PC2	2026-05-05	
2	PC3	2026-06-08	

BID SET
6/23/2026

PANEL SCHEDULES

E0.4

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STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
This document is used to demonstrate compliance with prescriptive PV and battery requirements in §140.10/§170.2 for nonresidential, multifamily and mixed-use buildings and prescriptive solar thermal requirements in §170.2(d)3C for multifamily and hotel/ motel occupancies. When PV/battery/solar thermal requirements don't apply or are traded using the performance approach, this document demonstrates compliance with mandatory solar readiness requirements in §110.10/ §160.8 for newly constructed buildings which are either multifamily ten stories or fewer, hotel/motel ten stories or fewer or all other nonresidential buildings three stories or fewer. It is also used to demonstrate compliance with solar readiness in §110.10/ §160.8 for additions to nonresidential, multifamily or hotel/motel building types which add more than 2,000 ft^2 of roof area. Alterations, or additions of less than 2,000 ft^2 of roof area, are not required to comply with solar readiness, solar PV and battery requirements and do not need to complete this document.	
Project Name: Lathrop Animal Shelter	**Report Page:** **(Page 1 of 8)**
Project Address:	**Date Prepared:** 2026-02-04T14:13:12-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Lathrop	04	Building Occupancies	All Other Occupancies
02	Climate Zone	12	05	Construction Type	New construction
03	Square Footage of Building (ft^2)	11121	06	Number of Stories	Bldg <= 3 stories

B. PROJECT SCOPE

The compliance path the project is using to comply per §110.10(b)1B/ §140.10/ §170.2(g and h) is indicated below.

Compliance with Solar Readiness Requirements in §110.10(b)1B

	01	
☒	Provide Solar Ready Area no exceptions	The project has allocated a solar zone on the roof plan per requirements in §110.10(b), as documented in Table F.
☐	Exception to Solar Ready Area: Installed Solar Photovoltaic System	The project includes a permanently installed solar electric system having a nameplate DC power rating, measured under Standard Test Conditions, of no less than one watt per square foot of roof area as documented in Table G.
☐	Exception to Solar Ready Area: Installed Solar Water Heating System	The project is a hotel/motel or high-rise multifamily occupancy and includes a permanently installed domestic solar water-heating system complying with §170.2(d)2Bii and Reference Residential Appendix RA4, as documented in Table H.
☐	Exception to Solar Ready Area: Smart Thermostat and Alternative Energy Efficiency Measure	The project is a multifamily occupancy where all thermostats in each dwelling unit comply with §110.12(a) AND at least one additional measure listed in Exception 4 to §110.10(b)1B is installed, as documented in Table I.
☐	Exception to Solar Ready Area: Roof is designed for vehicular traffic, parking or for heliport	Plan sheet showing roof designed for vehicular traffic, parking or heliport
☐	Exception to Solar Ready Area: Roof too small	The project is new construction and has a total roof area <= 533 square feet [1]
☐	Exception to Solar Ready Area: Number of building stories	The project is nonresidential > 3 stories or multifamily/ hotel/motel > 10 stories.

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Lathrop Animal Shelter	**Report Page:** **(Page 2 of 8)**
	Date Prepared: 2026-02-04T14:13:12-05:00

[1]*FOOTNOTE: Buildings with roof area <=533 ft^2 would have a required solar zone < 80 ft^2 and are therefore exempt per §110.10(b)1.*

Compliance with Solar Photovoltaic (PV) and Battery Requirements in §140.10/ §170.2(g and h)

	01	
☐	Provided PV system and battery storage sized per §140.10/ §170.2 (g and h)	The project has included an installed PV system and battery storage system per requirements in §140.10/ §170.2(g and h) as documented in Table J.
☐	Exception to PV and Battery: Not enough Solar Access Roof Area	The total of all available Solar Access Roof Area(s) of the project site is less than three percent of the conditioned floor area as documented in Table J per Exception 1 to Section 140.10(a) & Exception 1 to Section 170.2(g)..
☒	Exception to PV and Battery: Required PV < 4kW	The required PV system capacity is less than 4 kW dc as documented in Table J per Exception 2 to Section 140.10(a) & Exception 2 to Section 170.2(g).
☐	Exception to PV and Battery: No contiguous Solar Access Roof Area	The Solar Access Roof Area(s) of the project site contains less than 80 contiguous square feet as documented in Table J per Exception 3 to Section 140.10(a) & Exception 3 to Section 170.2(g).
☐	Exception to PV and Battery: Can't meet snow load	The project has a roof design where the enforcement authority has verified it is not possible for the PV system, including panels, modules, components, supports, and attachments to the roof structure, to meet ASCE 7-16 Chapter 7, Snow Loads per Exception 4 to Section 140.10(a) & Exception 4 to 170.2(g).
☐	Exception to PV and Battery: Multifamily without virtual energy credits	The project is a multifamily building in an area where a load serving entity does not provide a program where PV generation is compensated through virtual energy bill credits. Also, there is no community solar program and the utility does not support a virtual energy bill program per exception 5 to 170.2(g).

Compliance with Solar Thermal Water Heating Requirements in §170.2(d)2Bii (Multifamily and hotel/ motel occupancies only)

	01	
☐	The project includes a hotel/motel or multifamily occupancy with a gas or propane central water-heating system (serves 2+ dwelling units) and includes a permanently installed domestic solar water-heating system to comply with §170.2(d)2Bii and Reference Residential Appendix RA4, as documented in Table H. Compliance meets Exception 2 to solar ready requirements in §110.10(b).	

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Lathrop Animal Shelter	**Report Page:** **(Page 3 of 8)**
	Date Prepared: 2026-02-04T14:13:12-05:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance or see the applicable Table referenced below.

Allocated Solar Zone				Installed PV System				Installed SWH System				Smart Tstat and Alternative EE Measure		Compliance Results
01		02		03		04		05		06		07	08	
Required Minimum Area (ft^2)	<=	Designated Area (ft^2)	OR	Required Minimum DC Power Rating (Watts)	<=	Designed DC Power Rating (Watts)	OR	Required Minimum Solar Savings Fraction	<=	Designed/Rated Solar Savings Fraction	OR	JA5 Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	COMPLIES
(See Table F)				(See Tables G or J)				(See Table H)				(See Table I)		
1,668.15	<=	1,709	OR		<=		OR		<=		OR			
Sheet E6.00				Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).										COMPLIES
Battery storage system design meets the minimum requirements in Joint Appendix JA12 and the minimum energy (kWh)/ power (kW) capacity per Table J.														Not Applicable

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

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Lathrop Animal Shelter	**Report Page:** **(Page 4 of 8)**
	Date Prepared: 2026-02-04T14:13:12-05:00

F. ALLOCATED SOLAR ZONE

This table is completed if the project is designating a solar zone to comply with §110.10(b)1B. New construction consider the total roof area; Additions consider newly added roof area. This table demonstrates that the project has designated the minimum area required for the Allocated Solar Zone, and also that the requirements for Solar Zone Subareas have been met. Each subarea must be shown on a roof plan or documented in construction documents. The solar zones must also comply with fire code requirements, including, but not limited to, setback and pathway requirements. Requirements for interconnection pathways must also be included in construction documents, and the location is specified in this table.

Required Minimum Solar Zone

01	02	03	04	05	06			07	08
					Potential Solar Zone Areas: Roof areas with >= 70% Solar Access				
Minimum Solar Zone Area Calculation Method	Total New or Added Roof Area (ft^2)	Total New or Added Roof Area Covered with Skylights (ft^2)	Minimum Solar Zone Based on Total or Added Roof Area (0.15 x (Roof-Skylt)) (ft^2)	Method/ Tools Used to Determine Annual Solar Access for Potential Zones[1]	Low-Sloped Area (<= 2:12 pitch) (ft^2)	Steep-Sloped Area (> 2:12 pitch) Oriented 90° - 300 ° (ft^2)	Total Potential Solar Zone Area (ft^2)	Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft^2)	Required Minimum Solar Zone Area (ft^2)
Total New or Added Roof Area	11121	0	1668.15						1668.15

Designated Solar Zone Subareas

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low <= 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)3A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft^2)	Designated Area (ft^2)	Subarea Complies?
Future PV	Sheet E3.20	Low slope		Yes	Yes	Yes	Yes	160	1,709	COMPLIES

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Lathrop Animal Shelter	**Report Page:** **(Page 6 of 8)**
	Date Prepared: 2026-02-04T14:13:12-05:00

J. PHOTOVOLTAIC (PV) AND BATTERY ENERGY STORAGE SYSTEMS

This table documents compliance with prescriptive photovoltaic and battery system requirements in §140.10/ §170.2(g and h). Unless the project meets one of the listed exceptions, or trades-off PV in an energy model using performance path, §140.10/ §170.2(g and h) requires installed photovoltaic and battery systems for newly constructed buildings. The installed PV systems must meet the minimum requirements in Joint Appendix 11.

Photovoltaic (PV) System

Equation 140.10-A/170.2-D Calculation Method

01	02	03	04
Building Type	Conditioned Floor Area (ft^2)	Tenant Space Exception to §140.10(a)/§170.2(g) (Must check all to meet Exception)	Min Size of PV System Required (kWdc)

SARA Calculation Method

05	06	07	08	09	10	11	12
Roof Name	Roof Slope	Area of New Roof[1] (ft^2)	Roof Area < 70% Solar Access[2] (ft^2)	Plansheet or Document showing Solar Access Calculations	Roof area occupied, no structural support, not available due to other state codes, < 80 contiguous (ft^2)	Solar Access Roof Area (SARA) (ft^2)	Min Capacity of PV System Required (kWdc)
					Total Min Size PV System Required for all Spaces (kWdc):		
					Total Size PV System in Design (kWdc):		

[1]*FOOTNOTES: Includes the area of the building's roof space capable of structurally supporting a PV system and the area of all roof space on covered parking areas, carports, and all other newly constructed structures on the site that are compatible with supporting a PV system per Title 24, Part 2 Section 1511.2.*
[2]*Solar access must be determined using CEC approved solar access calculation tools found at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/solar-assessment-tools.*
[3]*As specified by CBC Section 503.1.4.*

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Lathrop Animal Shelter	**Report Page:** **(Page 7 of 8)**
	Date Prepared: 2026-02-04T14:13:12-05:00

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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 Table E. Additional Remarks and ExceptionalConditionMessageCCSABE += UserChangedSelectionInCI. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-SAB-01-E - Must be submitted for all buildings that must comply with solar readiness or PV/Battery requirements.

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Lathrop Animal Shelter	**Report Page:** **(Page 8 of 8)**
Project Address:	**Date Prepared:** 2026-02-04T14:13:12-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
Ian Nogleberg	
Company:	Signature Date:
Address:	CEA/AEA/ECC Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Person Name:	Responsible Person Signature:
Ian Nogleberg	
Responsible Person Scope:	
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

LICENSED PROFESSIONAL ENGINEER
REG. NO. E 25127
SCOTT SHEELER
ELECTRICAL
STATE OF CALIFORNIA

The Engineering Enterprise
CONSULTING ENGINEERS
ALAMEDA | AUBURN | LOS ANGELES
NEOSHO | SAN DIEGO | SANTA BARBARA
https://www.engent.com

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25084
Drawn By: AS
Checked By: SW

No.	Description	Date	By

BID SET
6/23/2026

TITLE 24 - SOLAR AND BATTERY

E0.5

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STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
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(a) or §141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per §180.1(a) or §180.2 (b)4Bvii	
Project Name: Lathrop Animal Shelter	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2026-02-04T13:07:53-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Lathrop	02	Climate Zone	12
			03	Occupancy Types Within Project:	
● All Other Occupancies					

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)/§160.6(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
Electrical Room inside the MSB	New electrical service equipment and meter	301	☒	☐	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 §130.3/§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 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.
[2] 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.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Lathrop Animal Shelter	**Report Page:** (Page 2 of 7)
	Date Prepared: 2026-02-04T13:07:53-05:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. 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(c)/ §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.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Lathrop Animal Shelter	**Report Page:** (Page 3 of 7)
	Date Prepared: 2026-02-04T13:07:53-05:00

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
Electrical Room inside the MSB					
HVAC systems and components	All HVAC in aggregate and each HVAC load rated at least 50 kVA	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	Sheet E6.00	☐	☐
Charging stations for electrical vehicle	All loads in aggregate	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	Sheet E6.00	☐	☐
Lighting including exit, egress and exterior	All lighting disaggregated by floor, type or area	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	Sheet E6.00	☐	☐
Renewable power sources (net or total)	Each group	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	Sheet E6.00	☐	☐

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Lathrop Animal Shelter	**Report Page:** (Page 4 of 7)
	Date Prepared: 2026-02-04T13:07:53-05:00

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
Plug Loads and appliances less than 25kVA	All plug loads separated by floor, type or area 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	Sheet E6.00	☐	☐
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	Sheet E6.00	☐	☐

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
[2] Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

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)2Piii/ §180.2(b)4Bviic.

01	02	03	04	05

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Lathrop Animal Shelter	**Report Page:** (Page 5 of 7)
	Date Prepared: 2026-02-04T13:07:53-05:00

H. VOLTAGE DROP

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
Electrical Room inside the MSB	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	Sheet E6.00	☐	☐

** 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.

01	02	03	04	05	06	07	
Room name or Description	Location/ Type of Controlled Receptacles[1,2]	Shut-Off Controls	Demand Responsive Controls	Permanent Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
						Pass	Fail
Staff/ACO	Within 6ft of uncontrolled AND multiple receptacle outletWithin 6ft of uncontrolled receptacle	Occupancy Sensor	Included w capabilities per §110.12(e)	☒	Sheet E3.00	☐	☐
Offices	Within 6ft of uncontrolled receptacle	Occupancy Sensor	Included w capabilities per §110.12(e)	☒	Sheet E3.00	☐	☐
File/Copy	Within 6ft of uncontrolled receptacle	Occupancy Sensor	Included w capabilities per §110.12(e)	☒	Sheet E3.00	☐	☐
Lobby	Within 6ft of uncontrolled receptacle	Occupancy Sensor	Included w capabilities per §110.12(e)	☒	Sheet E3.00	☐	☐

** NOTES: If "Other*" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Lathrop Animal Shelter	**Report Page:** (Page 6 of 7)
	Date Prepared: 2026-02-04T13:07:53-05:00

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

[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. .
[2] Plug-in strips and other plug-in devices shall not be used to comply with the requirements of section §130.5(d)

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

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 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-04-A - Must be submitted for demand response controls.	

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Lathrop Animal Shelter	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2026-02-04T13:07:53-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
Ian Nogleberg	
Company:	Signature Date:
Address:	CEA/AEA/ECC Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Person Name:	Responsible Person Signature:
Ian Nogleberg	
Responsible Person Scope:	
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

8/7/2025 1:58:12 PM

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

REGISTERED PROFESSIONAL ENGINEER
ED15627
Exp. 08/31/27
SCOTT WHEELER
ELECTRICAL
STATE OF CALIFORNIA

The Engineering Enterprise
CONSULTING ENGINEERS
ALAMEDA | AUBURN | LOS ANGELES
NEOSHO | SAN DIEGO | SANTA BARBARA
https://www.engent.com

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25084
Drawn By: AS
Checked By: SW

No.	Description	Date	By

BID SET
6/23/2026

TITLE 24 - ELECTRICAL POWER DISTRIBUTION

E0.6

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Lathrop Animal Services	Report Page: (Page 1 of 12)
Project Address:		Date Prepared: 2026-05-13T18:11:40-04:00

This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in §160.5, §170.2(e)6, §180.1(a) and §180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	Lathrop	04	Total Illuminated Hardscape Area (ft²)	50893
02	Climate Zone	12			

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

● Medical Clinic ● Office ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 / §170.2(e)6 or §141.0(b)2L / § 180.2(b)4Bv for alterations.

My Project Consists of:

01	02		
☒ New Lighting System	Must Comply with Allowances from §140.7 / §170.2(e)6		
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	◯ Yes	◯ No
03	04	05	
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method	
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%			

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Lathrop Animal Services	Report Page: (Page 2 of 12)
		Date Prepared: 2026-05-13T18:11:40-04:00

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)2L / § 180.2(b)4Bv											Compliance Results		
01		02		03		04		05	06		07		08	09
General Hardscape Allowance §140.7(d1) / §170.2(e)6 (See Table I)	+	Per Application §140.7(d)2 / §170.2(e)6 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 / §170.2(e)6 (See Table L)	+	Per Specific Area §140.7(d)2 / §170.2(e)6 (See Table M)	OR	Existing Power Allowance §141.0(b)2L / § 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
1,238.44	+	---	+	---	+	---	+	553	OR	---	=	1,791.44	≥	1,657	COMPLIES
Shielding Compliance (See Table G for Details)															COMPLIES
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.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance
Report Version: 2025.0.000 Schema Version: rev 20250101
Compliance ID: ECA-359368-0526-0001 Report Generated: 2026-05-13 15:11:44

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Lathrop Animal Services	Report Page: (Page 3 of 12)
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F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 / §170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires [2]	Luminaire Status[3]	Excluded per §140.7(a) / §170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b) /§160.5(c)1 [4]	Field Inspector Pass	Field Inspector Fail
SF1A	Pole mounted area light with concrete base. Type 4 low glare distribution with integral motion sensor. Provide 4" square steel pole and mounting height per drawings. Dim 20% when no motion is detected for 15 minutes. Luminaire mounted at +17'-6".	☐ Linear	102	Mfr. Spec	1	New	☐	102	Provided	☐	☐
SF1B	Same as SF1A except type 1 distribution.	☐ Linear	102	Mfr. Spec	8	New	☐	816	Provided	☐	☐
SF2	Forward throw LED wall pack for bldg exterior. Wet location rated. Lights will recieve dimming signal from wall mounted motion sensors and dim to 35% when area is unoccupied for 15 minutes.	☐ Linear	15	Mfr. Spec	39	New	☐	585	NA: < 6200 lumens	☐	☐

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Report Version: 2025.0.000 Schema Version: rev 20250101
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STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Lathrop Animal Services	Report Page: (Page 4 of 12)
		Date Prepared: 2026-05-13T18:11:40-04:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 / §170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
SF3E	LINEAR LED, WET LOCATION RATED WITH 90 MINUTE EMERGENCY BATTERY BACKUP.	☒ Linear	7	Mfr. Spec	4	New	☐	28	NA: < 6200 lumens	☐	☐

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STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Lathrop Animal Services	Report Page: (Page 5 of 12)
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F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 / §170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
SF4	Pole Mounted LED area light. Wet location rated. Lights will receive dimming signal from wall mounted motion sensors and dim to 35% when area is unoccupied for 15 minutes.	☐ Linear	34	Mfr. Spec	2	New	☐	68	NA: < 6200 lumens	☐	☐
SF2E	SAME AS SF2 BUT WITH 90 MINUTE EMERGENCY BATTERY BACKUP.	☐ Linear	15	Mfr. Spec	3	New	☐	45	NA: < 6200 lumens	☐	☐
SF6	SURFACE MOUNT AIMABLE DOWNLIGHT WITH ADJUSTABLE SWIVEL STEM AND ADJUSTABLE YOKE. WET LOCATION RATED. DRIVER LOCATED WITHIN FIXTURE HOUSING. SIGNAGE LIGHTING.	☐ Linear	12	Mfr. Spec	3	New	☒	---	NA: < 6200 lumens	☐	☐
SF7	IN GRADE WALL WASH FLOODLIGHT WITH STRAIGHT LINE CUTOFF DISTRIBUTION. IP 67 RATED. FINISH PER ARCHITECT. PROVIDE PHOTOMETRIC PRIOR TO INSTALL TO CONFIRM LOCATION AND SIGN ILLUMINATION.	☐ Linear	29.2	Mfr. Spec	2	New	☒	---	NA: < 6200 lumens	☐	☐

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STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Lathrop Animal Services	Report Page: (Page 6 of 12)
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F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 / §170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
SF8	LED DOWNLIGHT MOUNTED TO TOP OF FLAGPOLE. IP 67 RATED. CONFIRM TRUCK FINISH WITH ARCHITECT.	☐ Linear	13	Mfr. Spec	1	New	☐	13	NA: < 6200 lumens	☐	☐
								Total Design Watts:		1657	

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) / §160.5(b)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
[4] *Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)/ §160.5(c)*

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CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance
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Compliance ID: ECA-359368-0526-0001 Report Generated: 2026-05-13 15:11:44

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Lathrop Animal Services	Report Page: (Page 7 of 12)
		Date Prepared: 2026-05-13T18:11:40-04:00

G. SHIELDING REQUIREMENTS (BUG)

This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.

01	02	03	04	05	06	07	08	09	10	11	12	
Name or Item Tag	Complete Luminaire Description	Backlight Rating[2]			Uplight Rating[2]			Glare Rating (Lumens)[2]			Field Inspector	
		Mounting Height[1]	Max Allowable Backlight Rating [3]	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating [3]	Uplight Rating Per Design	Mounting Height[1]	Max Allowable Glare Rating [3]	Glare Rating Per Design	Pass	Fail
SF1A	Pole mounted area light with concrete base. Type 4 low glare distribution with integral motion sensor. Provide 4" square steel pole and mounting height per drawings. Dim 20% when no motion is detected for 15 minutes. Luminaire mounted at +17'-6".	Back hemisphere is 1 - 2 MH from prop line	B3	B3	Area Lighting	U0	U0	Front hemisphere is 1 - 2 MH from prop line	G1	G1	☐	☐
SF1B	Same as SF1A except type 1 distribution.	Back hemisphere is 1 - 2 MH from prop line	B3	B3	Area Lighting	U0	U0	Front hemisphere is 1 - 2 MH from prop line	G1	G1	☐	☐

[1] *FOOTNOTES: Mounting Height is labeled MH in this table.*
[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per §130.2(b)/ §160.5(c)*
[3] *BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. if Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.*

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CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance
Report Version: 2025.0.000 Schema Version: rev 20250101
Compliance ID: ECA-359368-0526-0001 Report Generated: 2026-05-13 15:11:44

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Lathrop Animal Services	Report Page: (Page 8 of 12)
		Date Prepared: 2026-05-13T18:11:40-04:00

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	Field Inspector Fail
Parking Lot: "SF1B"	Astronomical Timer	Provided	NA: >=24 ft	☐	☐
Parking Lot: "SF1A"	Astronomical Timer	Provided	NA: >=24 ft	☐	☐
Parking Lot: "SF2"	Astronomical Timer	Provided	NA: >=24 ft	☐	☐
Kennel Canopy Areas: "SF2"	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	☐	☐
General Canopy Areas: "SF2"	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	☐	☐
General Canopy Areas: "SF3E"	Astronomical Timer	Provided	NA: 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 ii and iii.*

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance
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Compliance ID: ECA-359368-0526-0001 Report Generated: 2026-05-13 15:11:44

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Lathrop Animal Services	Report Page: (Page 9 of 12)
		Date Prepared: 2026-05-13T18:11:40-04:00

I. LIGHTING POWER ALLOWANCE (per §140.7 /§170.2(e))

This table includes areas using allowance calculations per §140.7 /§170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

01				
	"Use it or lose it" Allowance (select all that apply) (select all that apply)			
☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☒ Per Specific Area Table M

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 (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Parking Lot	39710	0.019	754.49	1893	0.15	283.95	1038.44
					Initial Wattage Allowance for Entire Site (Watts):		200
					Instances of Initial Wattage Allowance (LZ 0 only)[1]		
					Total General Hardscape Allowance (Watts):		1238.44

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

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.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance
Report Version: 2025.0.000 Schema Version: rev 20250101
Compliance ID: ECA-359368-0526-0001 Report Generated: 2026-05-13 15:11:44

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

REGISTERED PROFESSIONAL ENGINEER
ES15627
SCOTT WHEELER
ELECTRICAL
STATE OF CALIFORNIA

The Engineering Enterprise
CONSULTING ENGINEERS
ALAMEDA | AUBURN | LOS ANGELES
NEOSHO | SAN DIEGO | SANTA BARBARA
https://www.engent.com

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25084
Drawn By: AS
Checked By: SW

No.	Description	Date	By

BID SET
6/23/2026

TITLE 24 - OUTDOOR LIGHTING

E0.7

8/7/2025 1:58:51 PM

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
Area Description	Specific Area Type per Table 140.7-B	CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				Additional Allowance (Watts)
		Specific Area (ft^2)[1]	Allowed Density (W/ft^2)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	
Kennel Canopy Areas	SalesCanopy	2460.18	0.47	1156.28	SF2	15	23	345	345
							Total Design Watts for this Area:	345	
General Canopy Areas	NonSalesCanopy	2441.18	0.13	334.44	SF2	15	12	180	208
					SF3E	7	4	28	
							Total Design Watts for this Area:	208	
							Total Allowance (Watts) All Areas:		553

[1] *FOOTNOTES: See Table 140.7-B /Table 170.2-S for rules for calculating the specific areas (ft^2 for these additional lighting allowances.*

[2] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

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

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Parking Lot: "SF1B"; Parking Lot: "SF1A"; Parking Lot: "SF2"; Kennel Canopy Areas: "SF2"; General Canopy Areas: "SF2"; General Canopy Areas: "SF3E"

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
Ian Nogleberg	
Company:	Signature Date:
The Engineering Enterprise	
Address:	CEA/AEA/ECC Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Person Name:	Responsible Person Signature:
Ian Nogleberg	
Responsible Person Scope:	
Company:	Date Signed:
The Engineering Enterprise	
Address:	License:
City/State/Zip:	Phone:

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

REGISTERED PROFESSIONAL ENGINEER #EE156 Exp. 08-31-27 SCOTT WHEELER ELECTRICAL STATE OF CALIFORNIA

The Engineering Enterprise
CONSULTING ENGINEERS
ALAMEDA | AUBURN | LOS ANGELES
NEOSHO | SAN DIEGO | SANTA BARBARA
https://www.engent.com

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25084
Drawn By: AS
Checked By: SW

No.	Description	Date	By

BID SET
6/23/2026

TITLE 24 - OUTDOOR LIGHTING CONTINUED

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in §160.5, §170.2(e) and §180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: Lathrop Animal Shelter	**Report Page:** (Page 1 of 10)
Project Address:	**Date Prepared:** 2026-05-13T17:48:50-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Lathrop	04 Total Conditioned Floor Area (ft²)	11,121
02	Climate Zone	12	05 Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1

● Medical Clinic ● Office ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 / §170.2(e) or §141.0(b)2 / §180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	11121	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	11121			

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Lathrop Animal Shelter	**Report Page:** (Page 4 of 10)
	Date Prepared: 2026-05-13T17:48:50-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

F8	4' RECESSED LINEAR.	No	NA	36	Mfr. Spec	10	No	360	☐	☐
F4B	DOWNLIGHT WITH REGRESSED LIGHT SOURCE	No	NA	14	Mfr. Spec	3	No	42	☐	☐
F6E	PENDANT MOUNTED DECORATIVE RING FIXTURE WITH INTEGRAL 90 MINUTE EMERGENCY BATTERY BACKUP.	No	NA	65	Mfr. Spec	1	No	65	☐	☐
F6A	SAME AS F6 BUT 3' DIAMETER NOMINAL	No	NA	45	Mfr. Spec	1	No	45	☐	☐
F1AE	SAME AS F1A, BUT WITH 90 MINUTE EMERGENCY BATTERY BACKUP.	No	NA	36	Mfr. Spec	7	No	252	☐	☐
F1E	SAME AS F1, BUT WITH 90 MINUTE EMERGENCY BATTERY BACKUP.	No	NA	36	Mfr. Spec	6	No	216	☐	☐
F3E	SAME AS F3, BUT WITH 90 MINUTE EMERGENCY BATTERY PACK.	No	NA	30	Mfr. Spec	5	No	150	☐	☐
F4E	SAME AS F4, BUT WITH INTEGRAL 90 MINUTE EMERGENCY BATTERY BACKUP.	No	NA	14	Mfr. Spec	1	No	14	☐	☐
F5E	SAME AS F5, BUT WITH 90 MINUTE EMERGENCY BATTERY BACKUP.	No	NA	126	Mfr. Spec	1	No	126	☐	☐
F8E	SAME AS F8, BUT WITH 90 MINUTE EMERGENCY BATTERY BACKUP.	No	NA	32.8	Mfr. Spec	5	No	164	☐	☐
X1	SINGLE FACE WALL MOUNTED LED EXIT SIGN WITH FIELD SELECTABLE	No	NA	5	Mfr. Spec	13	No	65	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Lathrop Animal Shelter	**Report Page:** (Page 7 of 10)
	Date Prepared: 2026-05-13T17:48:50-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Kennel Spaces	Retail Merchandise Sales Wholesale Showroom	Readily Accessible and located in the same space.	Multilevel Switch	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐

13
Plan Sheet Showing Daylit Zones:
Lighting Sheets (E2.00)

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Employee Offices and Break Room	Office (<=250 square feet)	0.65	703	456.95	No	No
Back of House Corridors	All Other Space Types	0.4	2,021.61	808.64	No	No
Restrooms	Restroom	0.65	756	491.4	No	No
Storage Spaces	Office (<=250 square feet)	0.65	576.49	374.72	No	No
Lobby and Multipurpose Room	Conference, Multipurpose and Meeting Area	0.75	1,350	1,012.5	No	No
Veterinary Clinic	Healthcare / Assisted Living Nurse Station	0.75	1,083.92	812.94	No	No
Kennel Spaces	Retail Merchandise Sales Wholesale Showroom	0.95	2,015.02	1,914.27	No	No
Mechanical, IT, Fire Riser, Electrical Rm	Electrical, Mechanical, or Telephone Room	0.4	318.13	127.25	No	No
		TOTALS:	8,824.17	5,998.67	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Lathrop Animal Shelter	**Report Page:** (Page 2 of 10)
	Date Prepared: 2026-05-13T17:48:50-04:00

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
	Complete Building §140.6(c)1	Area Category §140.6(c)2 /§170.2(e)4	Area Category Additional §140.6(c)2G / §170.2(e)4Av (+)	= 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 F)	(See Table P)				
Conditioned		5,998.67		= 5,998.67	≥	5,990.33		=	5990.33		COMPLIES
Unconditioned				=	≥		0	=			
Controls Compliance (See Table H for Details)											COMPLIES
One-for-one Luminaire Alterations 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.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Lathrop Animal Shelter	**Report Page:** (Page 5 of 10)
	Date Prepared: 2026-05-13T17:48:50-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

	FACES/ CHEVERONS. PROVIDE BATTERY BACK UP OPTION.									
X2	DUAL FACE WALL MOUNTED LED EXIT SIGN WITH FIELD SELECTABLE FACES/ CHEVERONS. PROVIDE 90 MINUTE BATTERY BACK UP OPTION.	No	NA	5	Mfr. Spec	2	No	10	☐	☐
						Total Designed Watts: CONDITIONED SPACES		5,990.33		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B /§170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) /§160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

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 (Column 8)		

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Lathrop Animal Shelter	**Report Page:** (Page 8 of 10)
	Date Prepared: 2026-05-13T17:48:50-04:00

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. ONE-FOR-ONE LUMINAIRE 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

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

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Lathrop Animal Shelter	**Report Page:** (Page 3 of 10)
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F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change [1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3 / §170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
F1	2'X4' RECESSED LED PANEL WITH WHITE FINISH OR COLOR SELECTED BY ARCHITECT.	No	NA	36	Mfr. Spec	57	No	2,052	☐	☐
F1A	SAME AS F1 BUT WET LOCATION RATED.	No	NA	36	Mfr. Spec	33	No	1,188	☐	☐
F3	LED STRIP LIGHT FOR BACK OF HOUSE APPLICATION 4' LENGTH NOMINAL.	No	NA	30	Mfr. Spec	11	No	330	☐	☐
F3A	LED STRIP LIGHT FOR BACK OF HOUSE APPLICATION 8' LENGTH NOMINAL.	No	NA	60	Mfr. Spec	4	No	240	☐	☐
F4	RECESSED 4 INCH NOMINAL DIAMETER DOWNLIGHT WITH WHITE CONE AND TRIM. NOMINAL 45 DEGREE BEAM SPREAD.	No	NA	14	Mfr. Spec	22	No	308	☐	☐
F4A	SAME AS F4 BUT WITH SHOWER TRIM OPTION.	No	NA	14	Mfr. Spec	2	No	28	☐	☐
F5	LINEAR PENDANT LED WITH UPLIGHT AND DOWNLIGHT. LENGTH PER DRAWINGS.	No	NA	72	Mfr. Spec	2	No	144	☐	☐
F7	COVE MOUNTED STRIP LIGHT FOR UPLIGHT.	No	NA	4	Mfr. Spec	47	No	191.33	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Lathrop Animal Shelter	**Report Page:** (Page 6 of 10)
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Controls §130.1(a) /§160.5(b)4A	Multi-Level Controls §130.1(b) /§160.5(b)4B	Shut-Off Controls §130.1(c) //§160.5(b)4C	Primary/Sky lit Daylighting §130.1(d) /§160.5(b)4D	Secondary Daylighting §130.1(d) /§160.5(b)4D	Interlocked Systems §140.6(a)1/ §170.2(e)2A	Field Inspector	
								Pass	Fail
Employee Offices and Break Room	Office (<=250 square feet)	Readily Accessible and located in the same space.	Multilevel Switch	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Back of House Corridors	All Other Space Types	Readily Accessible and located in the same space.	Multilevel Switch	Auto. Time Switch	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Restrooms	Restroom	Readily Accessible and located in the same space.	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Storage Spaces	Office (<=250 square feet)	Readily Accessible and located in the same space.	Multilevel Switch	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Lobby and Multipurpose Room	Conference, Multipurpose and Meeting Area	Readily Accessible and located in the same space.	Multilevel Switch	Occupancy Sensor	Included	Included	No	☐	☐
Veterinary Clinic	Healthcare / Assisted Living Nurse Station	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Lathrop Animal Shelter	**Report Page:** (Page 9 of 10)
	Date Prepared: 2026-05-13T17:48:50-04:00

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Employee Offices and Break Room; Back of House Corridors; Restrooms; Storage Spaces; Lobby and Multipurpose Room; Veterinary Clinic; Kennel Spaces
NRCA-LTI-03-A - Must be submitted for daylight responsive controls.	Lobby and Multipurpose Room
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Employee Offices and Break Room; Back of House Corridors; Restrooms; Storage Spaces; Lobby and Multipurpose Room; Veterinary Clinic; Kennel Spaces

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Project:
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LATHROP, CA. 95330

Key Plan:

Project No.: 25084
Drawn By: AS
Checked By: SW

No.	Description	Date	By

BID SET
6/23/2026

TITLE 24 - INDOOR LIGHTING

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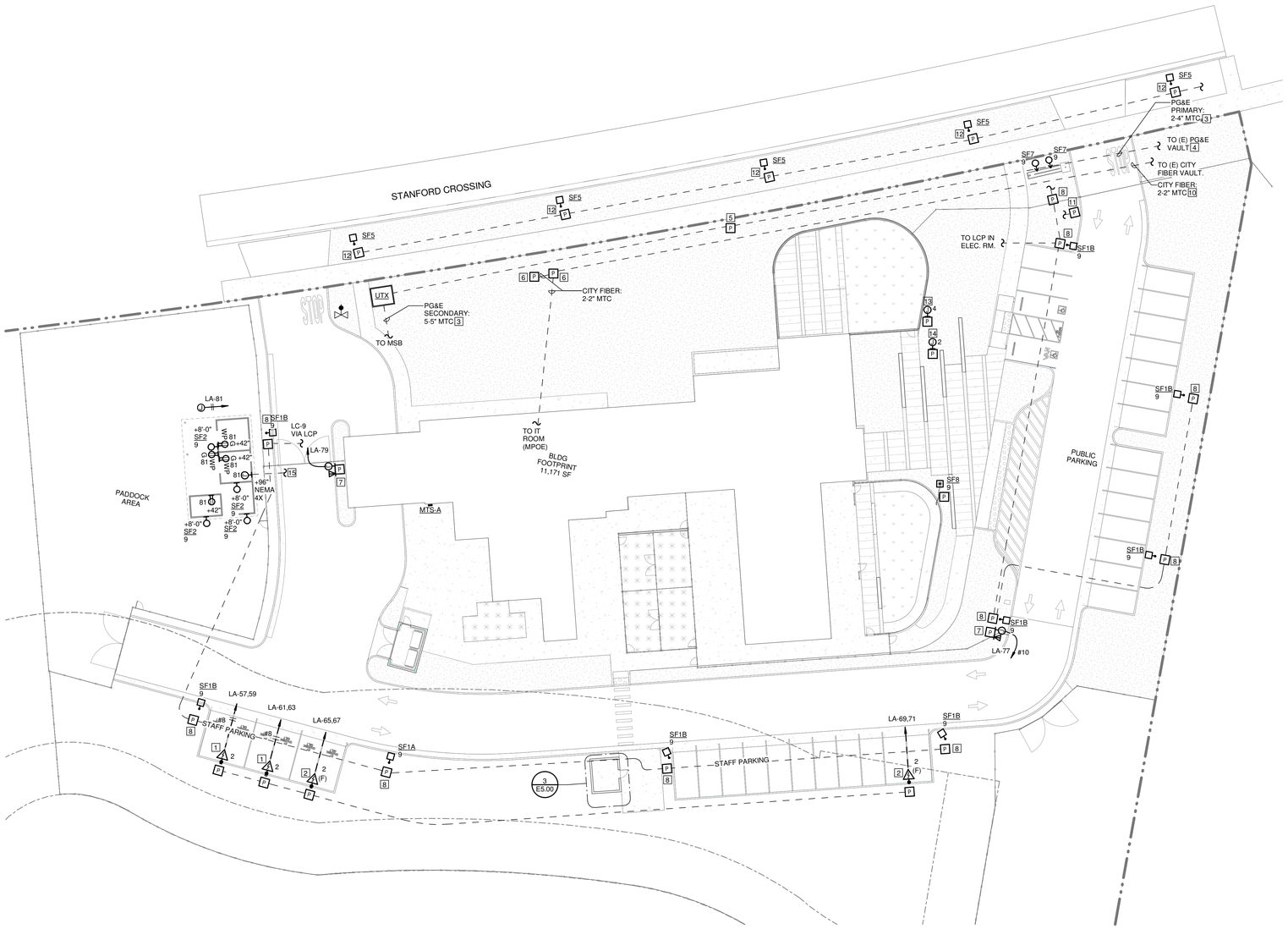


1 SITE PLAN

SCALE: 1" = 20'-0"

GENERAL SHEET NOTES

A. EQUIPMENT SHALL BE INSTALLED PER STANDARDS OF RESPECTIVE UTILITY PROVIDER.

B. REFER TO PG&E STANDARDS FOR TRENCHING, CONDUIT SEPARATION, AND BACKFILL REQUIREMENTS. PG&E PRIMARY CONDUIT SHALL BE INSTALLED UNDER 30" COVER MINIMUM.

C. PG&E JOINT TRENCH REQUIRES 54" MINIMUM DEPTH. REFER TO PG&E DOCUMENT S5453 FOR JOINT TRENCH ARRANGEMENTS.

D. REFER TO AT&T STANDARDS FOR TRENCHING, CONDUIT, AND BACKFILL. AT&T CONDUIT SHALL BE INSTALLED UNDER 24" COVER MINIMUM.

E. UG SITE CONDUIT SHALL BE 1" MINIMUM.

F. CIRCUIT NUMBERS ON THIS SHEET CORRESPOND TO PANEL LC UON.

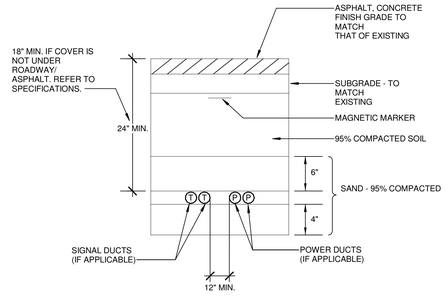
G. PROVIDE EV CHARGER. EV CHARGER BASIS OF DESIGN IS CHARGEPOINT CPF 50, 32A POWER SHARE.

H. UNDERGROUND SERVICE CONDUCTORS THAT ARE NOT ENCASED IN CONCRETE AND THAT ARE BURIED 450MM (18IN.) OR MORE BELOW GRADE SHALL HAVE THEIR LOCATION IDENTIFIED BY A WARNING RIBBON THAT IS PLACE IN THE TRENCH AT LEAST 300MM(12IN.) ABOVE THE UNDERGROUND INSTALLATION PER CEC300.5.D.3.

I. PROVIDE #10 CONDUCTORS FOR SITE LIGHTING CIRCUITS.

NUMBERED SHEET NOTES

1. PROVIDE LEVEL 2 EV CHARGER, DUAL CHARGING CABLES. PROVIDE 1" CONDUIT TO PULLBOX FROM PANEL LA SECT. 2. CHARGEPOINT CPF 50 USED AS BASIS OF DESIGN.
2. FUTURE LEVEL 2 EV CHARGER, DUAL CHARGING CABLES. PROVIDE 1" CONDUIT WITH PULL TAPE TO PULL BOX FROM PANEL LA SECT. 2. CHARGEPOINT CPF 50 USED AS BASIS OF DESIGN.
3. PROVIDE CONDUIT (NUMBER AND SIZE AS INDICATED) FOR UTILITY SERVICE CABLES. CABLES FURNISHED, INSTALLED, AND CONNECTED BY UTILITY COMPANY.
4. EXTEND CONDUIT TO EXISTING PG&E VAULT TO SOUTH OF SITE. TOTAL DISTANCE ~330'.
5. PROVIDE 3'X5' PULLBOX. PG&E TO CONFIRM EQUIPMENT IS ADEQUATE PER PG&E STANDARDS.
6. PROVIDE 30"X48" TELECOM PULLBOX, TRAFFIC RATED. CONDUIT SHALL ENTER PULLBOX SIDEWALL VIA KNOCKOUTS. CITY TO CONFIRM EQUIPMENT IS ADEQUATE PER CITY STANDARDS.
7. PROVIDE 120V CONNECTION FOR MOTORIZED GATE. PROVIDE SEPARATE 1.25" CONDUIT TO ACCESS CONTROL AND IT EQUIPMENT IN IT SPACE. BAY ALARM TO PROVIDE ACCESS CONTROL CABLE. CONTRACTOR TO PROVIDE GOOSENECK, REFER TO ARCHITECTURAL/ LANDSCAPE DRAWINGS.
8. PROVIDE 1" CONDUIT TO LIGHTING PULLBOX. ENSURE PATHWAY TO SOURCE PANEL IN ELECTRICAL ROOM
9. PROVIDE 1" CONDUIT TO BAY ALARM EQUIPMENT LOCATED IN IT ROOM.
10. PROVIDE 288 STRAND SINGLE MODE FIBER FROM CITY NETWORK IN ONE OF TWO CONDUITS. COORDINATE CONNECTION POINT ON SITE WITH CITY.
11. PROVIDE PULLBOX FOR SLIDING GATE DATA CONNECTION. PROVIDE 1.25" PATHWAY FROM PULLBOX TO IT ROOM. COORDINATE TERMINATION LOCATION WITH CITY.
12. PROVIDE NEW CITY STREET LIGHTS. CONTRACTOR TO COORDINATE TIE-IN POINT WITH PG&E. STREET LIGHTS TO BE INSTALLED PER CITY STANDARDS AND DETAILS. PROVIDE TRAFFIC RATED CONCRETE PULL BOX AT EACH LIGHT LOCATION PER CITY STANDARDS. PROVIDE 2" CONDUIT BETWEEN STREET LIGHT LOCATIONS AND TO PG&E CONNECTION POINT.
13. PROVIDE N9 SIZE PULL BOX ADJACENT TO WALL. COORDINATE ROUTING OF WALL LIGHING RACEWAY TO PULL BOX.
14. PROVIDE N9 SIZE PULL BOX ADJACENT TO BENCH. COORDINATE ROUTING OF LIGHING RACEWAY TO PULL BOX.
15. PROVIDE 2-1" SPARE CONDUITS TO IT ROOM. TERMINATE IN NEMA 4X BOX INSIDE BARN STRUCTURE. CONDUITS FOR FUTURE EQUIPMENT. COORDINATE FINAL TERMINATION LOCATION WITH OWNER.



2 JOINT TRENCH

SCALE:NTS

LDA DESIGNERS & ARCHITECTS

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Designers & Architects
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Project No.: 25084
Drawn By: AS
Checked By: SW

No.	Description	Date	By
1	PC2	2026-05-05	

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6/23/2026

SITE PLAN

E1.00

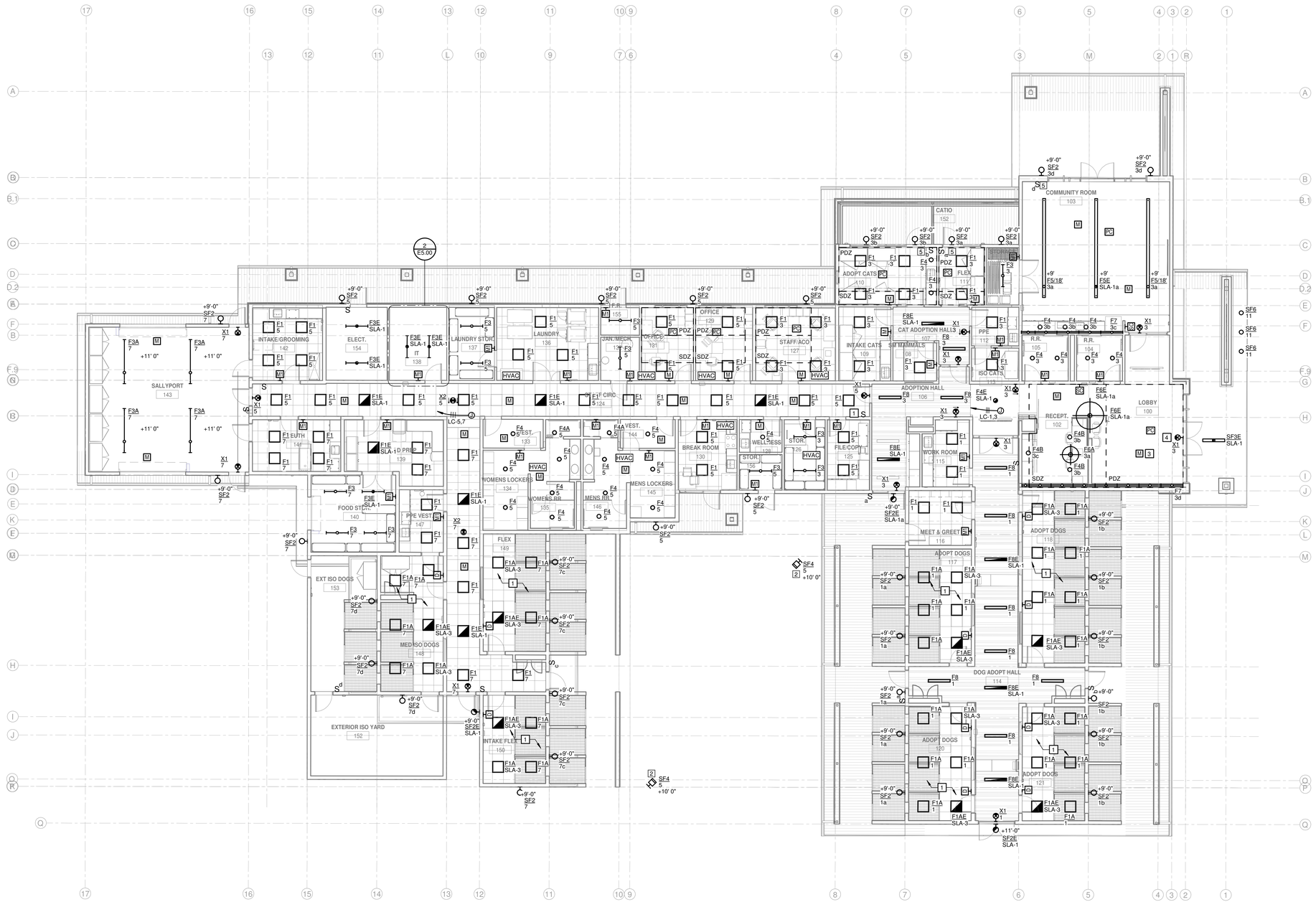
6/17/2026 1:04:24 PM

NUMBERED SHEET NOTES

1. SHUT OFF CONTROL FOR SPACE SHALL BE TIME CLOCK SCHEDULED TO TURN LIGHTS OFF AFTER HOURS, WITH MANUAL OVERRIDE PROVIDED BY LOCAL SWITCH. OVERRIDE SHALL NOT EXCEED 2 HOURS.
2. PROVIDE HARDWARE TO MOUNT AREA LIGHT TO SHADE STRUCTURE. COORDINATE WITH ARCHITECTURAL PLANS.
3. PROVIDE HIGH BAY MOTION SENSOR AS REQUIRED.
4. MOUNT EXIT SIGN ABOVE GLAZING. BOTTOM EDGE OF SIGN SHALL BE WITHIN 6 FEET 8 INCHES OF TOP OF DOOR.
5. SWITCH OVERRIDE FOR EXTERIOR LIGHTING SHALL BE 1 HOUR OR AS DIRECTED BY CITY.

GENERAL SHEET NOTES

A. CIRCUITS INDICATED ON THIS SHEET CORRESPOND TO PANEL LC UON. LUMINAIRE TAG CONTAINS CIRCUIT NUMBER DESIGNATION.



1 LIGHTING PLAN

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

Architect:
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Client:
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Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25084
Drawn By: AS
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No.	Description	Date	By
1	PC2	2026-05-05	
2	PC3	2026-06-08	

BID SET
6/23/2026

LIGHTING PLAN

E2.00

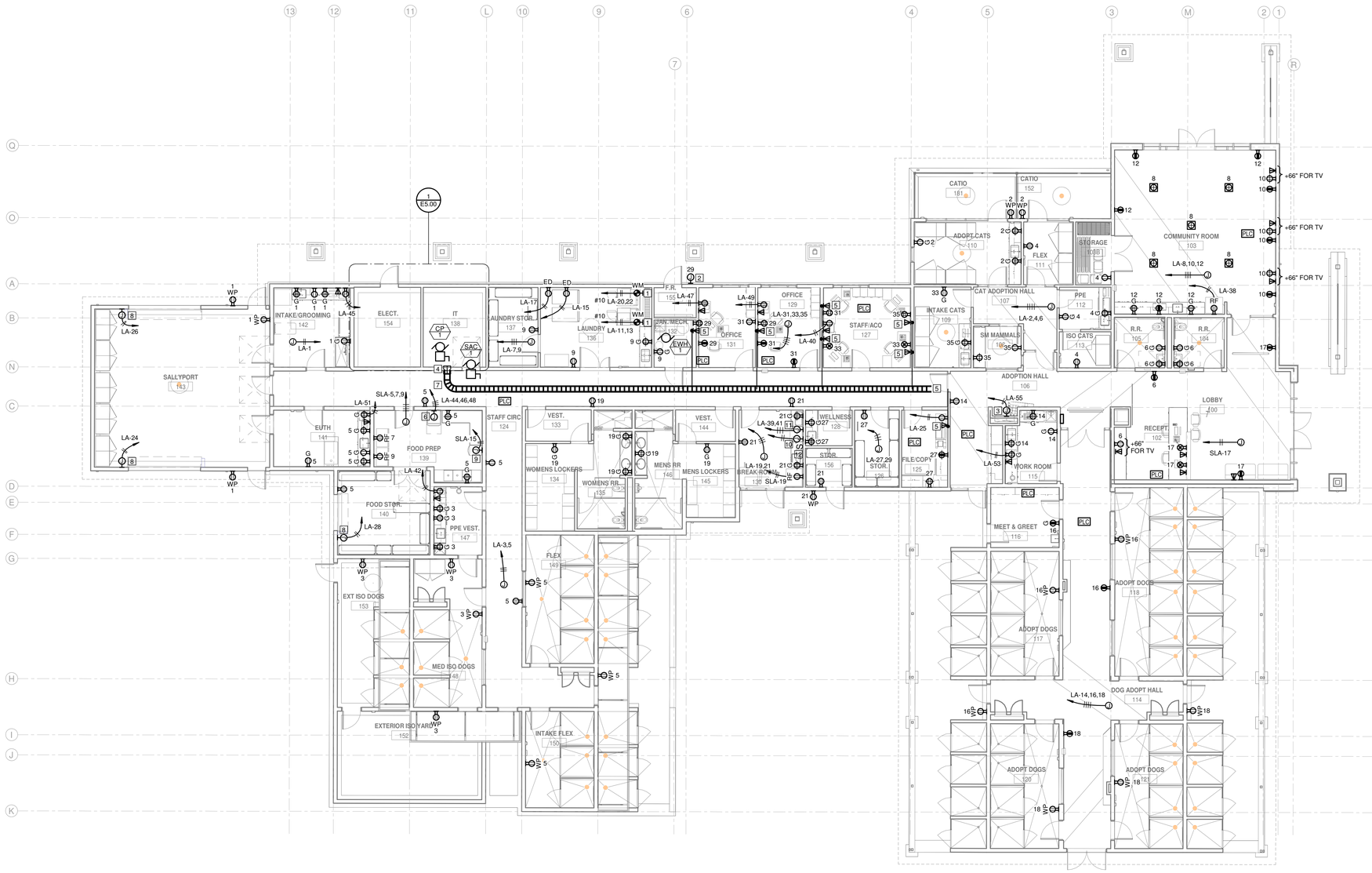
6/17/2026 3:58:8 PM

NUMBERED SHEET NOTES

1. PROVIDE NEMA L6-30R.
2. PROVIDE 120V CONNECTION FOR FIRE BELL.
3. PROVIDE GFCI BREAKER FOR DRINKING FOUNTAIN.
4. PROVIDE 3-4" CONDUIT SLEEVES.
5. DATA DROP LOCATIONS TO BE FED WITH STANDARD SIZE CONDUIT (PER DIV. 27 SPECS) BRANCHING FROM LADDER RACK IN CENTRAL CORRIDOR, THEN UTILIZING J-HOOKS TO FEED CONDUIT ABOVE CEILING THEN DOWN THE WALL TO DROP LOCATION.
6. HARDWIRED CONNECTION TO DISHWASHER. PROVIDE GFCI BREAKER AT PANEL. COORDINATE EXACT LOCATION WITH ARCHITECTUAL DRAWINGS.
7. PROVIDE 12" LADDER RACK ABOVE CEILING.
8. HARDWIRED CONNECTION TO GARAGE ROLLUP DOORS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS. PROVIDE CONTROL STATION COORDINATED WITH SELECTED PRODUCT.
9. HARDWIRED CONNECTION TO UNDERCOUNTER ICE MACHINE. COORDINATE EXACT LOCATION WITH ARCHITECTUAL DRAWINGS.
10. HARDWIRED CONNECTION TO RANGE EXHAUST HOOD. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
11. HARDWIRED CONNECTION TO ELECTRIC RANGE.
12. RANGE EXHAUST HOOD SWITCH.

GENERAL SHEET NOTES

A. TV DISPLAYS AND VIDEO WALL SHALL BE OFOI. COORDINATE WITH CITY.



1 POWER & TELECOM PLAN

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

DESIGNERS & ARCHITECTS

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1	PC2	2026-05-05	

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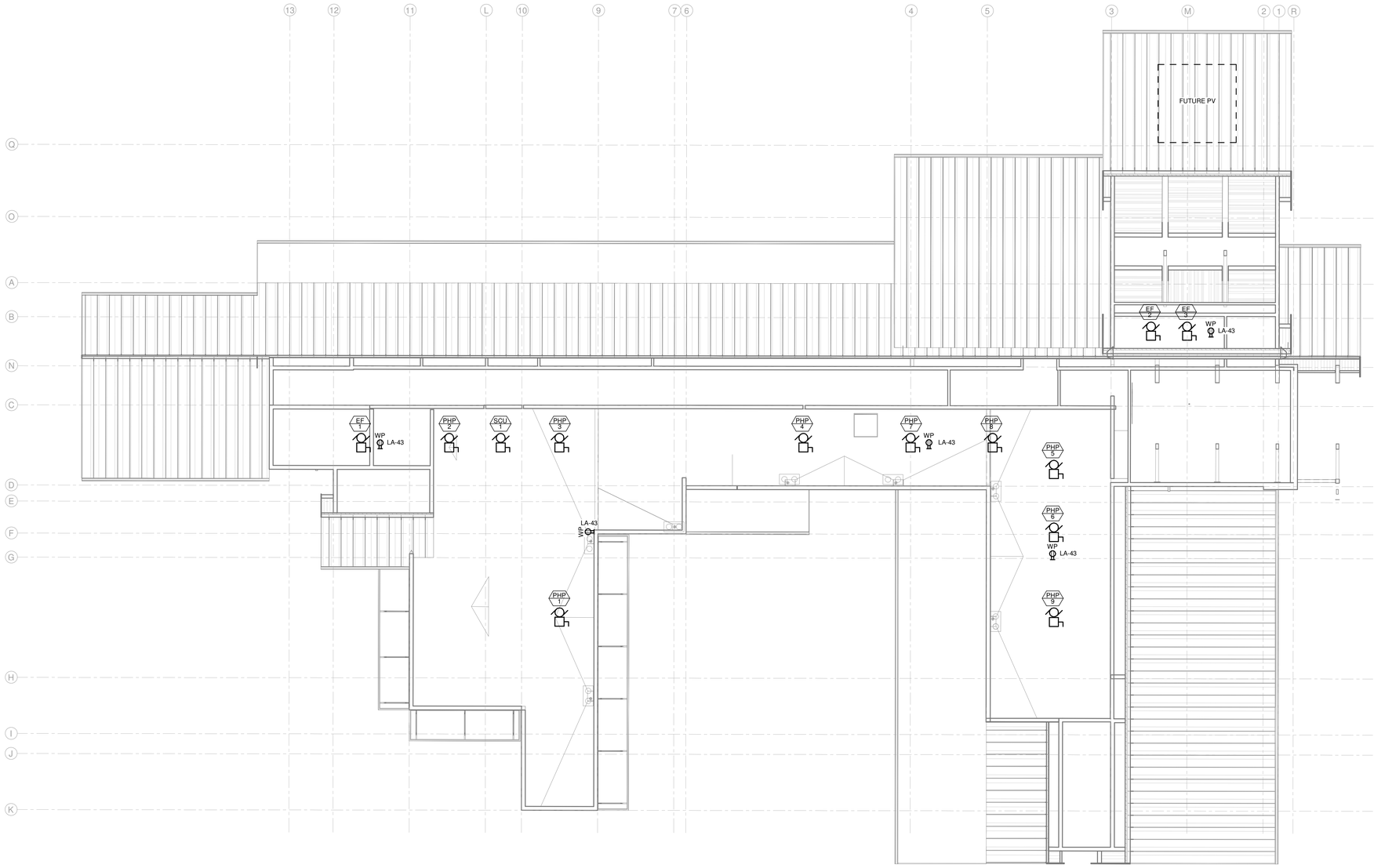
POWER & TELECOM PLAN

E3.00

6/17/2026 1:59:29 PM

GENERAL SHEET NOTES

A. REFER TO E0.3 FOR MECHANICAL EQUIPMENT COORDINATION SCHEDULE.



1 POWER & TELECOM ROOF PLAN

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

LDA DESIGNERS & ARCHITECTS

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POWER & TELECOM ROOF PLAN

E3.1

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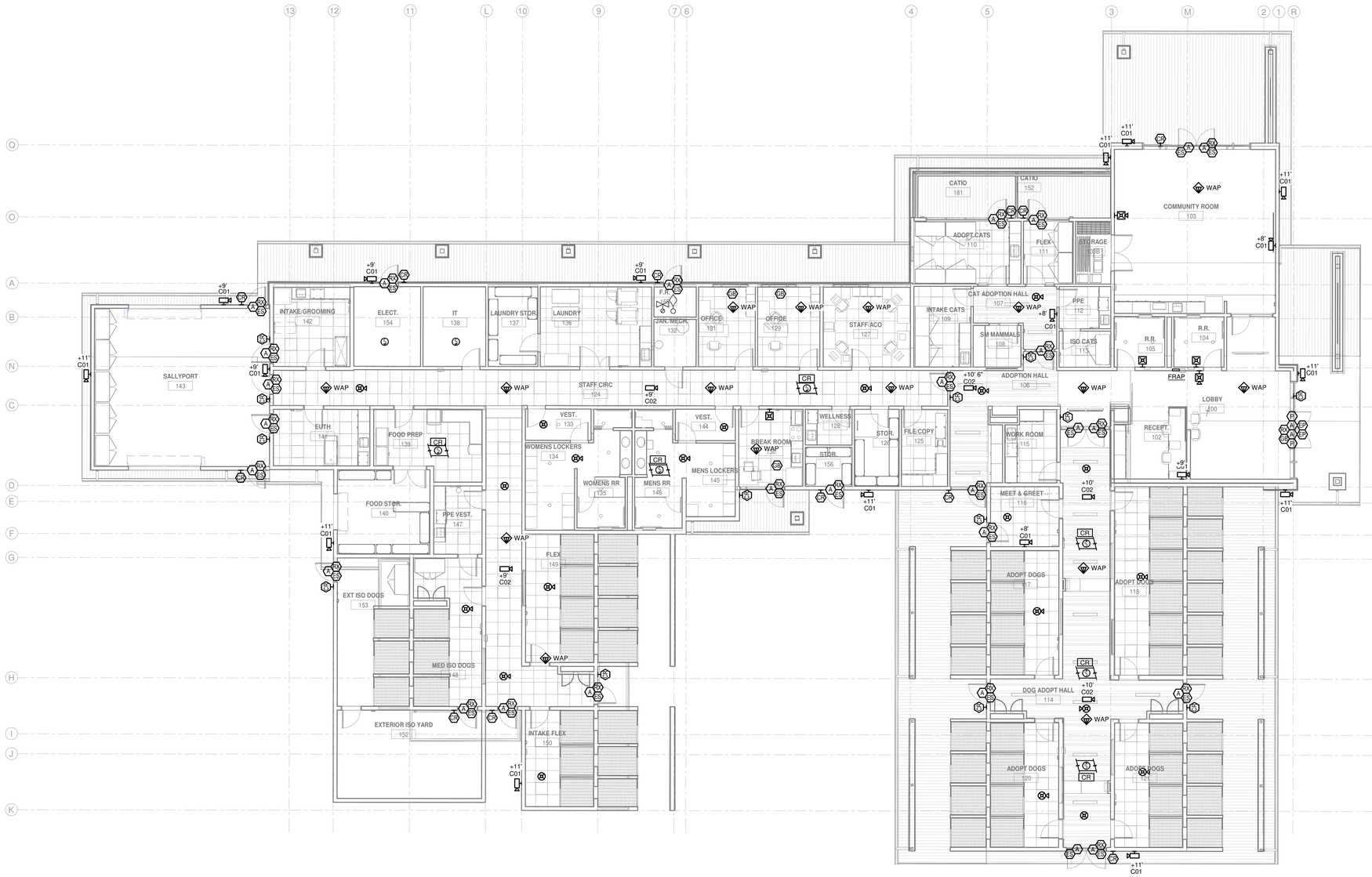
GENERAL SHEET NOTES

A. CAMERAS SHALL BE POE. CAMERAS ARE OFOI.

B. PROVIDE 0.75" CONDUIT TO INTERIOR SECURITY CAMERA LOCATIONS WITH CAT 6A CABLE. DO NOT TERMINATE IN JUNCTION BOX. TERMINATIONS SHALL BE BY OWNER. DO NOT PROVIDE JUNCTION BOX AT CEILING MOUNT CAMERA LOCATIONS.

C. SURVEILLANCE AND SECURITY HEAD END EQUIPMENT SHALL BE OFOI AND LOCATED IN RACKS IN IT ROOM. COORDINATE FINAL LOCATION OF EQUIPMENT WITH CITY.

D. DUCT SMOKE DETECTOR LOCATION SHALL BE COORDINATED WITH FINAL DUCTWORK ROUTING. PROVIDE CONTROL RELAY FOR EACH DUCT DETECTOR. PROVIDE DUCT SMOKE DETECTION FOR THE FOLLOWING MECHANICAL EQUIPMENT: PHP-1, PHP-2, PHP-3, PHP-4, PHP-6, PHP-9.



1 SPECIAL SYSTEMS PLAN

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

LDA DESIGNERS & ARCHITECTS

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SPECIAL SYSTEMS PLAN

E4.00

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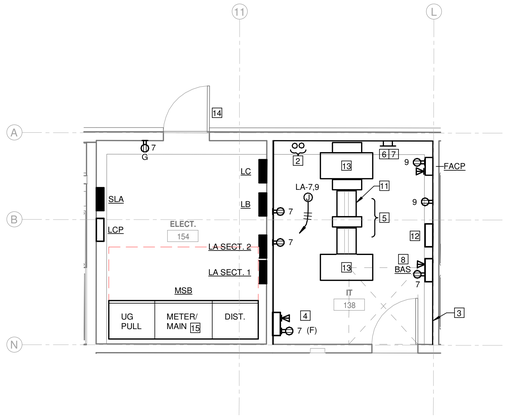
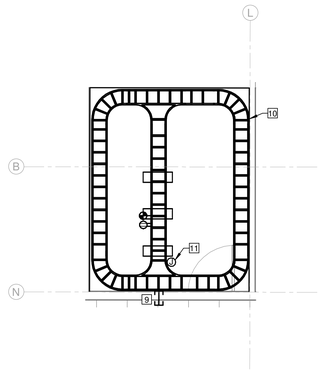


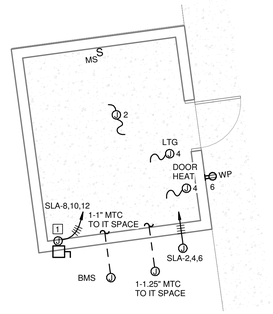
1 ENLARGED ELECTRICAL AND I.T. ROOM

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



2 IT ROOM RCP

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



3 FREEZER EQUIPMENT

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

GENERAL SHEET NOTES

A. PROVIDE 1U CABLE MANAGEMENT ABOVE AND BELOW EACH PATCH PANEL.

B. CONTRACTOR TO PROVIDE PATHWAY FROM IT ROOM FOR SECURITY, FIRE ALARM, AND INTRUSION DETECTION DEVICE LOCATIONS. CONTACT AND COORDINATE WITH BAY ALARM FOR WIRING INSTALLATION. CONFIRM DESIGN WITH BAY ALARM PRIOR TO ROUGH IN.

C. CAMERAS SHALL BE OFOI.

D. FIBER TERMINATION EQUIPMENT AND TERMINATION WORK IS OFOI.

E. PDU UNITS SHALL BE OFCI.

F. PROVIDE OFCI FIBER PATCH PANELS AS REQUIRED. COORDINATE QUANTITY WITH CITY.

G. PROVIDE CFCI PANDUIT PATCH PANELS FOR CATEGORY CABLE. COORDINATE QUANTITY WITH CITY.

NUMBERED SHEET NOTES

1. PROVIDE 30A/3P FUSED DISCONNECT FOR FREEZER CONDENSER.
2. 2-2" CONDUIT FOR FIBER CABLES FROM SITE. REFER TO E1.00.
3. PROVIDE 3/4" X 4' X 8' FIRE RATED PLYWOOD AROUND ALL WALLS FROM +36" TO CEILING. PAINT PLYWOOD WHITE.
4. RESERVED FOR FUTURE LOW VOLTAGE PANELS AND POWER SUPPLIES.
5. PROVIDE 2 POST EQUIPMENT RACKS WITH TWO SIDED VERTICAL WIRE MANAGERS ON EACH SIDE OF EACH RACK. GROUND EACH RACK TO GROUND BUS BAR (TMGB) WITH #6 GROUND WIRE WITH GREEN JACKET.
6. 12" WIDE X 3" TELECOM MAIN GROUND BUS BAR (TMGB) WITH ISOLATION MOUNTING BRACKETS. MOUNT AT 6" BELOW BOTTOM OF CABLE LADDER. PROVIDE A #1/0 GROUND WIRE TO THE ELECTRICAL ROOM MAIN GROUND AND TO BUILDING STEEL.
7. PROVIDE A 1" UGC BETWEEN GROUND BARS IN THE IDF AND ELECTRICAL ROOM.
8. PROVIDE POWER CONNECTION FO BMS GLOBAL CONTROLLER.
9. PROVIDE 3-4" CONDUIT SLEEVES.
10. 12" CABLE RUNWAY AT 84". SECURE TO WALL WITH ANGLE BRACKETS AND END BRACKETS AT TOP OF RACKS WITH TOP RACK MOUNTING PLATES. GROUND ALL RUNWAY WITH GROUND STRAPS BETWEEN SECTIONS AND #6 GROUND WIRE WITH GREEN JACKET TO GROUND BUS BAR (TMGB).
11. RACK MOUNT UPS SHALL BE OFCI. COORDINATE RACK ELEVATION WITH OWNER. PROVIDE HARDWIRED INPUT. REFER TO POWER ONE LINE DIAGRAM SHEET E6.00.
12. PROVIDE MAINTENANCE BYPASS CABINET AND DISCONNECT FOR UPS. COORDINATE WITH FINAL PRODUCT SELECTED BY CITY.
13. OFCI FOUR POST RACK. PROVIDE #6 GROUND WIRE WITH GREEN JACKET TO OWNER FURNISHED RACK LOCATIONS. COORDINATE TERMINATION WITH OWNER.
14. PANIC HARDWARE TO BE PROVIDED ON THE OUTWARD-OPENING DOOR OF THE MAIN ELECTRICAL ROOM.
15. MAIN SERVICE DISCONNECT TO BE MARKED CLEARLY WITH PERMANENT SIGNAGE PER CEC 230.70.

LDA DESIGNERS & ARCHITECTS

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15005 STANFORD CROSSING
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Key Plan:

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Checked By: SW

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2	PC3	2026-06-08	

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ENLARGED ROOM PLANS

E5.00

6/17/2026 1:58:54 PM

FEEDER SCHEDULE

FEEDER SCHEDULE GENERAL NOTES

1. COPPER FEEDER SIZES SHOWN IN THIS SCHEDULE ARE BASED ON CONDUCTORS WITH THHN/THWN-2 INSULATION IN EMT CONDUIT.
2. ALUMINUM FEEDER SIZES SHOWN IN THIS SCHEDULE ARE BASED ON CONDUCTORS WITH XHHW-2 INSULATION IN EMT CONDUIT.
3. FEEDER SIZES SHOWN IN THIS SCHEDULE ARE BASED ON AN AMBIENT TEMPERATURE OF 30 DEGREES C (86 DEGREES F).
4. FEEDERS CONSISTING OF MULTIPLE SETS OF CONDUCTORS AND CONDUITS ARE TO BE PROVIDED WITH THE INDICATED SIZE GROUND CONDUCTOR IN EACH CONDUIT.
5. PER CEC ARTICLE 110.14, ALL FEEDERS SIZED AT #2 AWG OR LESS ARE CALCULATED PER 60 DEGREE TABLE. FEEDERS GREATER THAN #2 AWG ARE RATED 75 DEGREE. 90 DEGREE COLUMN IS USED WHEN APPLYING DERATING FACTORS.

FEEDER SCHEDULE REMARKS

A. OVERSIZED 150% NEUTRAL, SUITABLE FOR SERVICE FROM K-13 RATED TRANSFORMERS.
B. FEEDER APPROVED FOR USE WITH SEPARATELY DERIVED SYSTEM; GROUNDING AS REQUIRED BY CEC ARTICLES 240 AND 250.
C. FEEDER GROUND AND BONDING JUMPER SHALL HAVE AN AREA NOT LESS THAN 12.5% OF THE AREA OF THE LARGEST PHASE CONDUCTOR.
D. INCREASE CONDUIT TO THE NEXT LARGER TRADE SIZE WHEN USING SCHEDULE 40 OR 80 PVC CONDUIT.
E. PER CEC SECTION 240.4(B), FOR OVERCURRENT DEVICES RATED 800A OR LESS, THE NEXT HIGHER STANDARD OVERCURRENT DEVICE RATING (ABOVE THE AMPACITY OF THE CONDUCTORS) CAN BE USED. RULE CAN NOT BE APPLIED IF 100% RATED BREAKERS ARE USED.
F. PER CEC 240.21(C), THE PROVISIONS OF 240.4(B) SHALL NOT BE PERMITTED FOR TRANSFORMER SECONDARY CONDUCTORS.

FEEDER TAG	FEEDER DESCRIPTION	CONDUIT	FEEDER CONDUCTORS		SEPARATELY DERIVED SYSTEM		REMARKS
			PHASE/NEUTRAL	GROUND	GROUNDING ELECTRODE	SYSTEM BONDING JUMPER	
302	30 AMP, 2 WIRE	1-0.75"	2 #10 CU	1 #10 CU	-	-	-
703	70 AMP, 3 WIRE	1-1.00"	3 #4 CU	1 #8 CU	-	-	-
803	85 AMP, 3 WIRE	1-1.00"	3 #3 CU	1 #8 CU	-	-	-
903	85 AMP, 3 WIRE	1-1.00"	3 #3 CU	1 #8 CU	-	-	D,E
1003	95 AMP, 3 WIRE	1-1.25"	3 #2 CU	1 #8 CU	-	-	E
1004	95 AMP, 4 WIRE	1-1.50"	4 #2 CU	1 #8 CU	-	-	D,E
1253	130 AMP, 3 WIRE	1-1.25"	3 #1 CU	1 #6 CU	-	-	-
1503	150 AMP, 3 WIRE	1-1.50"	3 #1/0 CU	1 #6 CU	-	-	-
2004	200 AMP, 4 WIRE	1-2.00"	4 #3/0 CU	1 #6 CU	-	-	-
202	20 AMP, 2 WIRE	1-0.75"	2 #12 CU	1 #12 CU	-	-	C
4004	380 AMP, 4 WIRE	1-3.00"	4 #500 KCMIL CU	1 #2 CU	-	-	D,E

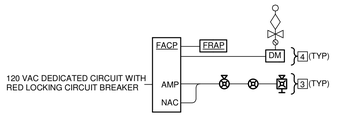
GENERAL SHEET NOTES

A. PROVIDE COMMUNICATION INTERFACE WITH BAS SYSTEM FOR POWER METERING.

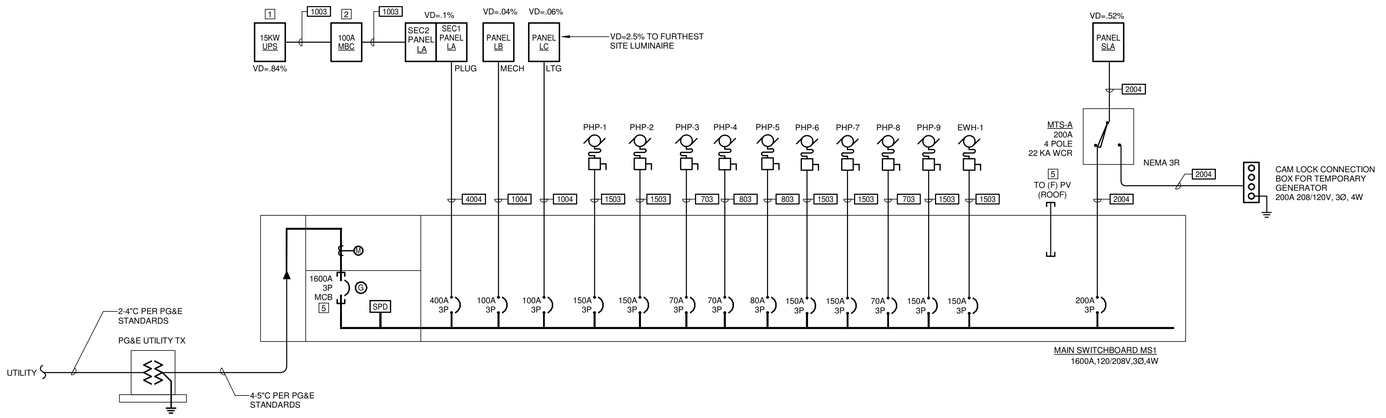
B. A LETTER FOR SHORT CIRCUIT CURRENT VALUE FROM THE ELECTRICAL UTILITY SHALL BE AVAILABLE AT THE JOB SITE FOR INSPECTION.

NUMBERED SHEET NOTES

1. OFCI UPS. COORDINATE RACK ELEVATIONS WITH CITY.
2. OFCI MAINTENANCE BYPASS CABINET, RACK MOUNT. COORDINATE RACK ELEVATIONS WITH CITY.
3. ALL FIRE ALARM SPEAKER DEVICES SHALL BE INTERTIED BACK TO THE EMERGENCY EVACUATION SYSTEM VOICE AMPLIFIER AND SHALL TONE WHEN A FIRE ALARM SOUNDS FOLLOWED BY VOICE COMMANDS PER THE 2022 CALIFORNIA FIRE CODE. REFER TO THE FIRE ALARM SYSTEM FLOOR PLANS AND DRAWINGS FOR LOCATIONS OF ALL WALL AND SITE DEVICES. THE INTERTIE OF THESE DEVICES HAS NOT BEEN SHOWN ON THESE PLANS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AS PART OF THE FIRE ALARM SYSTEM AND EMERGENCY EVACUATION SYSTEM SHOP DRAWINGS. SEE SPECIFICATIONS SECTION 283100 FOR ADDITIONAL REQUIREMENTS.
4. ALL FIRE ALARM INITIATING DEVICES, NOTIFICATION DEVICES, AND MONITORING SHALL BE INTERTIED BACK TO THE FIRE ALARM CONTROL PANEL. REFER TO THE FIRE ALARM SYSTEM FLOOR PLANS AND DRAWINGS FOR LOCATIONS OF ALL WALL AND SITE DEVICES. THE INTERTIE OF THESE DEVICES HAS NOT BEEN SHOWN ON THESE PLANS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AS PART OF THE FIRE ALARM SYSTEM SHOP DRAWINGS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. PROVIDE ARC ENERGY REDUCTION FOR CIRCUIT BREAKERS RATED 1200A OR GREATER PER CEC 240.87.



2 FIRE ALARM RISER DIAGRAM
SCALE:NTS



1 POWER ONE-LINE DIAGRAM
SCALE:NTS

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POWER ONE-LINE AND FIRE ALARM RISER DIAGRAMS

E6.00

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GENERAL SHEET NOTES

A. ISP INTRUSION AND ACCESS CONTROL CABLE SHALL BE WHITE.

B. UNDERGROUND CABLE SHALL BE AQUA SEAL WATER BLOCKING CABLE. TRANSITION TO INDOOR CABLE AT MPOE/IT ROOM WITH TERMINAL STRIPS.

C. ALL TERMINAL STRIPS SHALL BE INSTALLED IN STC ENCLOSURES SIZED AS REQUIRED. STC ENCLOSURES SHALL HAVE A HINGED DOOR WITH LOCKING HANDLE.

D. DATA CABLES TO SECURITY PANELS SHALL BE TERMINATED ON A DEDICATED CAT 6A PATCH PANEL AND ON SURFACE MOUNT BLOCKS IN THE PANEL. PROVIDE CAT 6A PATCH CORDS TO NETWORK SWITCH AND NETWORK MODULES IN PANEL/S.

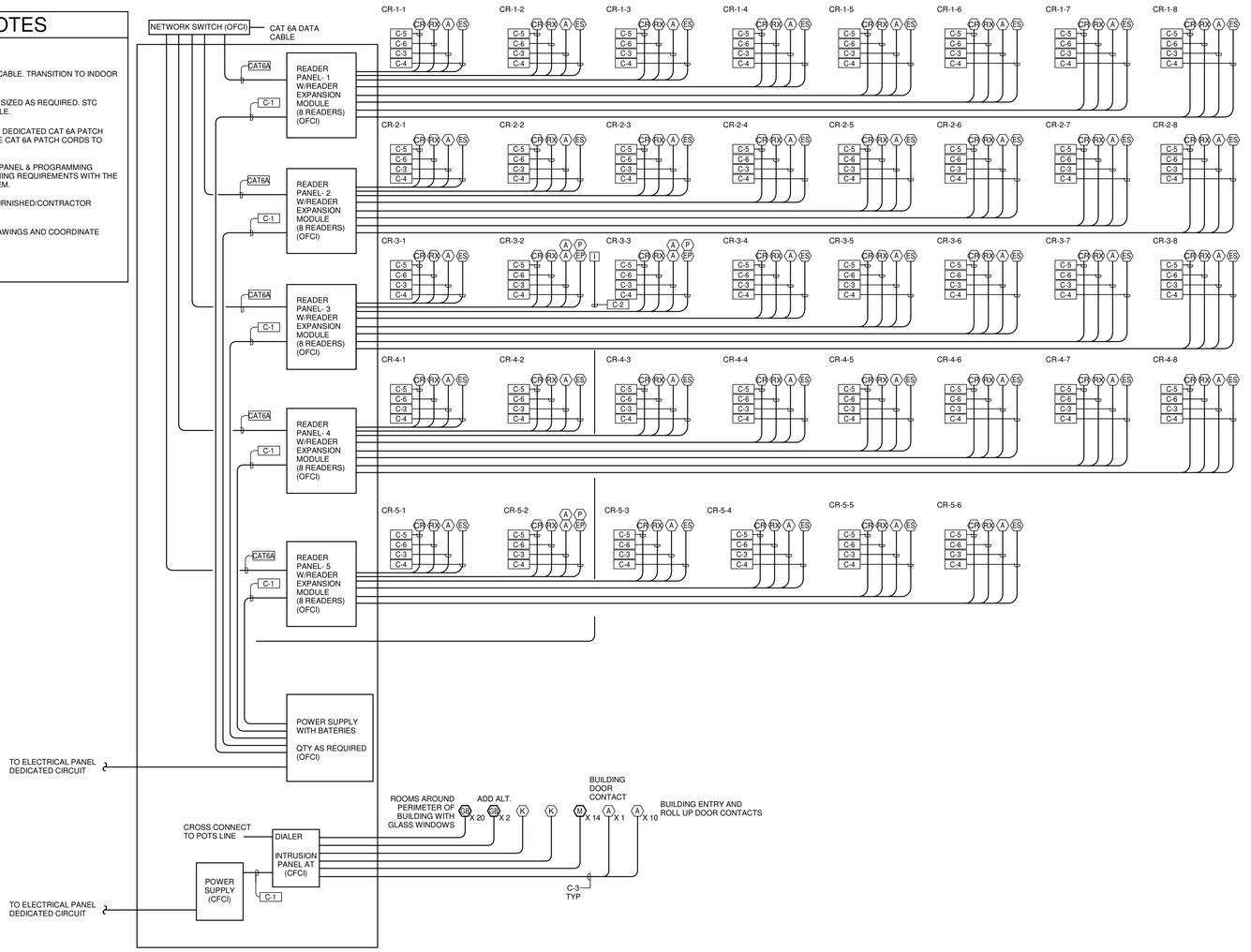
E. ALL CABLES SHALL BE PROPERLY IDENTIFIED. CONNECTIONS TO PANEL & PROGRAMMING SHALL BE PROVIDED BY CONTRACTOR. COORDINATE PROGRAMMING REQUIREMENTS WITH THE OWNERS REPRESENTATIVE PRIOR TO PROGRAMMING THE SYSTEM.

F. INTRUSION ALARM DEVICES (A, GB, K) SHALL BE CONTRACTOR FURNISHED/CONTRACTOR INSTALLED.

G. DIAGRAM SHOWN IS FOR TYPICAL INSTALLATIONS. REFER TO DRAWINGS AND COORDINATE QUANTITIES AND EQUIPMENT AS SHOWN ON PLANS.

CABLE LEGEND

C-1	MANUFACTURER: WEST PENN WIRE AWG: 14 #/COND: 4 STRANDING: STR COLOR: BLACK LISTINGS: UL, FPL CAT 6A: REFER TO 271500
C-2	AWG: 23 #/PAIR: 4 OHMS: 100 TYPE: UTP LISTINGS: CMR, CMP, OSP
C-3	MANUFACTURER: WEST PENN WIRE AWG: 22 #/COND: 2 STR/SOL: STR LISTINGS: CM, CL2 ENVIRONMENT: CMP, CMR, OSP
C-4	MANUFACTURER: WEST PENN WIRE AWG: 16-OSP, 18-ISP #/COND: 4 STR/SOL: STR LISTINGS: CM, CL2 ENVIRONMENT: CMP, CMR, OSP
C-5	MANUFACTURER: WEST PENN WIRE AWG: 18-OSP, 22-ISP #/COND: 10 STR/SOL: STR LISTINGS: CM, CL2 ENVIRONMENT: CMP, CMR, OSP
C-6	MANUFACTURER: WEST PENN WIRE AWG: 22 #/COND: 4 STR/SOL: STR LISTINGS: CM, CL2 ENVIRONMENT: CMP, CMR



1 TYPICAL ACCESS CONTROL AND INTRUSION SINGLE LINE DIAGRAM-FOR REFERENCE ONLY

SCALE:NTS

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SPECIAL SYSTEMS DIAGRAMS - SECURITY

E6.01

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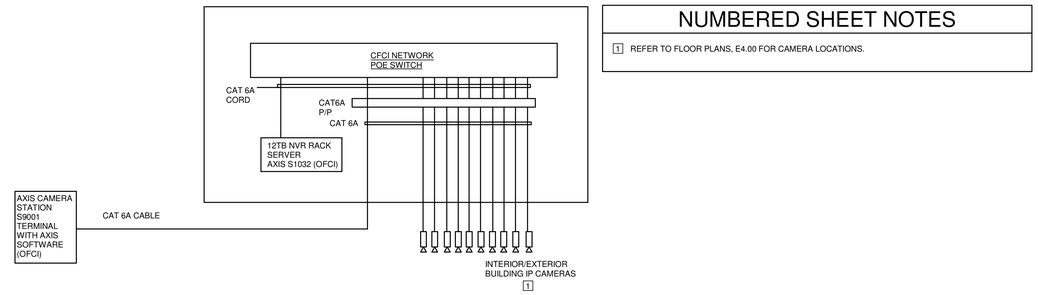

1 CCTV SINGLE LINE DIAGRAM

SCALE:NTS

NUMBERED SHEET NOTES

1 REFER TO FLOOR PLANS, E4.00 FOR CAMERA LOCATIONS.

DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

LICENSED PROFESSIONAL ENGINEER
#E015627
EXP. 08/31/27
SCOTT WHEELER
ELECTRICAL
STATE OF CALIFORNIA

The Engineering Enterprise
CONSULTING ENGINEERS
ALAMEDA | AUBURN | LOS ANGELES
NEOSHO | SAN DIEGO | SANTA BARBARA
https://www.engent.com

Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25084
Drawn By: AS
Checked By: SW

No.	Description	Date	By

BID SET
6/23/2026

SPECIAL SYSTEMS DIAGRAMS - SECURITY

E6.02

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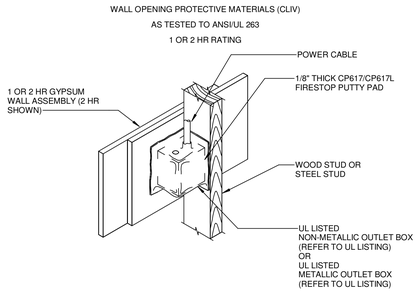

CP 617 Putty Pads,for use with max 4 by 4 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 and 2 hr. fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed as specified in the individual U300 or U400 Series Wall and Partition Designs in the Fire Resistance Directory. Min 1/8 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and completely seal against the stud within the stud cavity. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back to back.

CP 617 Firestop Putty Pads,for use with max 4-11/16 by 4-11/16 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 hr fire rated configuration of Wall and Partition Design No. V446 in the Fire Resistance Directory. Min 1/8 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the box within the stud cavity. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. and the boxes may be installed back to back.

CP 617 Firestop Putty Pads,for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made from polyvinyl chloride, and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 and 2 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Min 1/8 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the sides of the outlet box against the stud) including the nailing tab and completely seal against the stud within the stud cavity. Outlet boxes installed with steel or plastic cover plates. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back to back.

CP 617 Putty Pads,for use with max 4 by 2-7/8 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made from polyvinyl chloride, and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in the 1 hr fire rated V446 gyspum board/steel stud Wall and Partition Design in the Fire Resistance Directory. Outlet box secured to steel stud by means of fastening tab supplied with the outlet box. Min 1/8 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) including the tab and completely seal against the stud within the stud cavity. Outlet boxes installed with steel or plastic cover plates. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between boxes on opposide sides of the wall may be less than 24 in. and the boxes may be installed back to back.

CP 617 Firestop Putty Pads,for use with max 2-1/4 by 3-3/4 by 2-3/4 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Pass and Seymore, Inc., and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 and 2 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Min 1/8 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the sides of the outlet box against the stud) including the nailing tab and completely seal against the stud within the stud cavity. Outlet boxes installed with steel or plastic cover plates. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back to back.

CP 617 Firestop Putty Pads,for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Allied Molded Products, Inc., made from fiber reinforced thermoplastic and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Min 1/8 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the sides of the outlet box against the stud) including the nailing tabs and completely seal against the stud within the stud cavity. Outlet boxes installed with plastic cover plates. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back to back.

HILTI® FIRESTOP SYSTEMS

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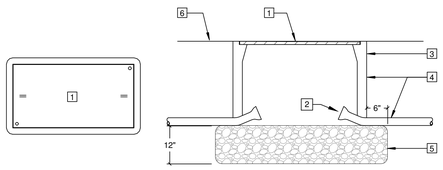
CLASSIFIED UL C US

GENERAL SHEET NOTES

A. REFER TO ARCHITECTURAL PLANS FOR IDENTIFICATION OF ALL RATED WALL ASSEMBLIES. ALL CONDUIT AND BOX PENETRATIONS OF RATED WALLS SHALL BE INSTALLED PER THE APPLICABLE UL LISTED ASSEMBLY.

1 RATED PENETRATION DETAIL

SCALE: 12" = 1'-0"

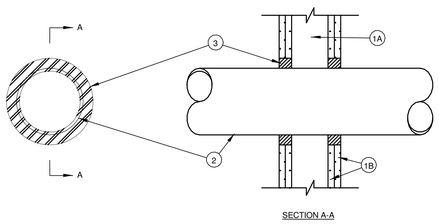


1 CONCRETE COVER (TO SUIT APPLICATION) WITH HOLD DOWN BOLTS. LABEL COVER AS REQUIRED.
2 BELL ENDS TYP.
3 PRE CAST REINFORCED CONCRETE BOX, SIZE PER CEC. INSTALL FLUSH WITH GRADE.
4 SEAL AROUND CONDUIT, BOX & JUNCTION OF EXTENSION(S) WITH MORTAR.
5 CRUSHED ROCK
6 FINISHED GRADE

2 SITE PULLBOX INSTALLATION DETAIL

SCALE: 12" = 1'-0"

SYSTEM NO. W-L-1054
F RATINGS - 1 AND 2 HR (SEE ITEMS 1 AND 3)
T RATING - 0 HR
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - 4 CFM/SQ FT



SECTION A-A

1. Wall Assembly -- The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* -- 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls. The F Rating of the firestop system is equal to the fire rating of the wall assembly.
2. Through-Penetrants -- One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe -- Nom 30 in diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe -- Nom 30 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit -- Nom 4 in diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.
   D. Copper Tubing -- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe -- Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* -- Sealant -- Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC -- FS-One Sealant

*Bearing the UL Classification Mark

HILTI® FIRESTOP SYSTEMS

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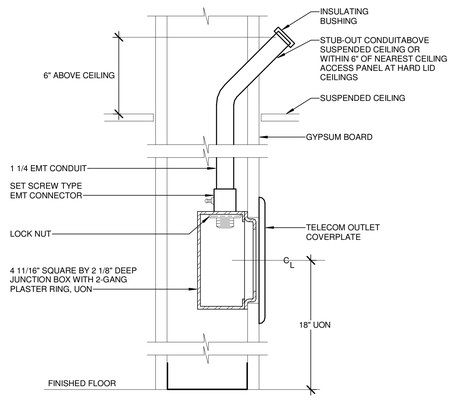
CLASSIFIED UL C US

3 RATED PENETRATION DETAIL

SCALE: 12" = 1'-0"



NOTES:

1. INSTALL UL LISTED FIRE RATED SEALANT MATERIAL IN WALL AROUND DEVICE BOX TO PROVIDE FIRE-STOP AND FIRE RESISTANCE RATING WHERE INSTALLATION OCCURS.
2. TYPICAL INSTALLATION WITH CONDUIT STUBBED ABOVE CEILING UNLESS SHOWN OTHERWISE ON PLANS.

4 TELECOMMUNICATION OUTLET WALL MOUNTED DETAIL

SCALE:NTS

DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com

REGISTERED PROFESSIONAL ENGINEER
#20156
Exp. 6-30-27
SCOTT WHEELER
ELECTRICAL
STATE OF CALIFORNIA

The Engineering Enterprise
CONSULTING ENGINEERS
ALAMEDA | AUBURN | LOS ANGELES
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Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25084
Drawn By: AS
Checked By: SW

No.	Description	Date	By

BID SET
6/23/2026

ELECTRICAL DETAILS

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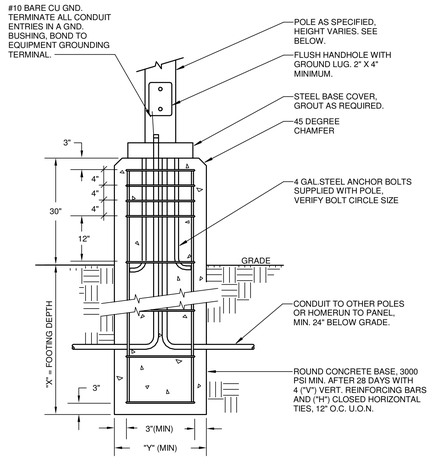
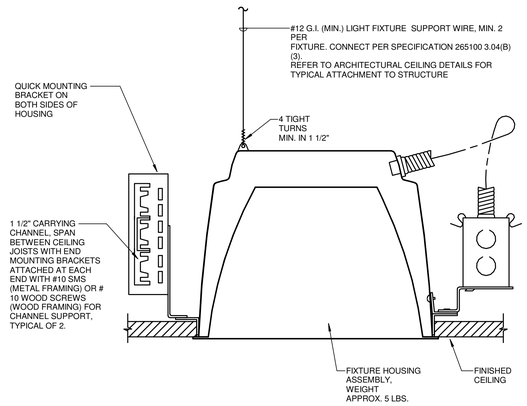


NOMINAL HEIGHT	POLE HEIGHT	BOLT CIRCLE	"H"	"V"	"X"	"Y"
15'-0"	12'-6"	8"-9"	#2	#3	4'-0"	18"
20'-0"	17'-6"	9.5"-11"	#3	#4	5'-0"	24"
25'-0"	22'-6"	9.5"-11"	#3	#4	5'-0"	24"
30'-0"	27'-6"	11.5"-13"	#4	#6	6'-0"	30"

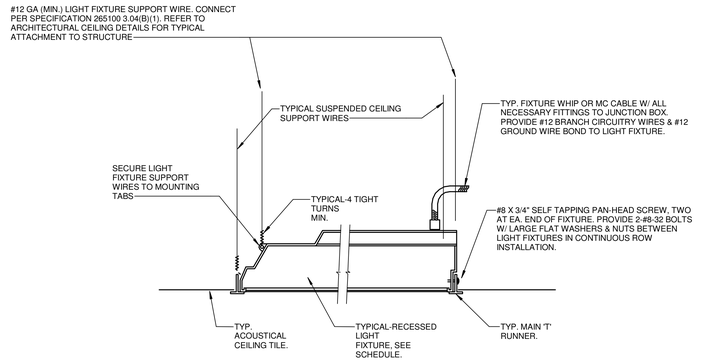
1 LIGHTING POLE BASE DETAIL

SCALE:NTS



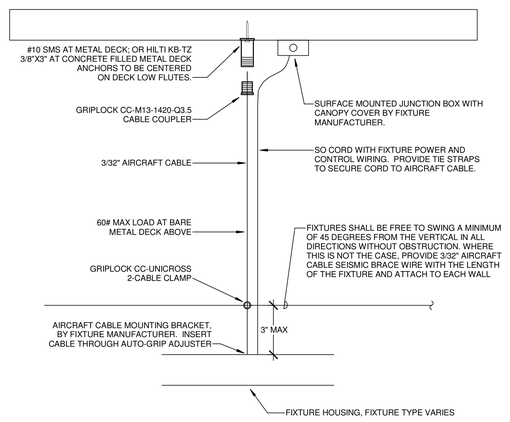
2 RECESSED DOWNLIGHT

SCALE:NTS



3 RECESSED FIXTURE AT T-BAR CEILING

SCALE: 12" = 1'-0"



4 SUSPENDED LIGHT FIXTURE

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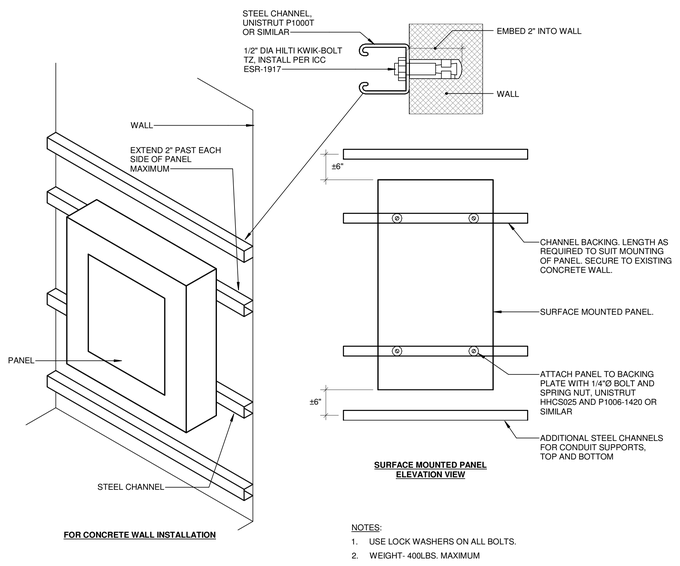
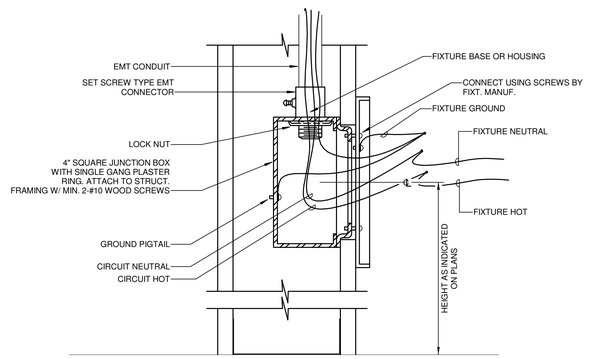


NOTES:

1. USE LOCK WASHERS ON ALL BOLTS.
2. WEIGHT- 400LBS. MAXIMUM

5 PANELBOARD MOUNTING

SCALE:NTS



6 WALL MOUNTED FIXTURE

SCALE:NTS

LDA DESIGNERS & ARCHITECTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
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#E015627 12-31-27
SCOTT WHEELER ELECTRICAL
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390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25084
Drawn By: AS
Checked By: SW

No.	Description	Date	By
1	PC2	2026-05-05	

BID SET
6/23/2026

ELECTRICAL DETAILS

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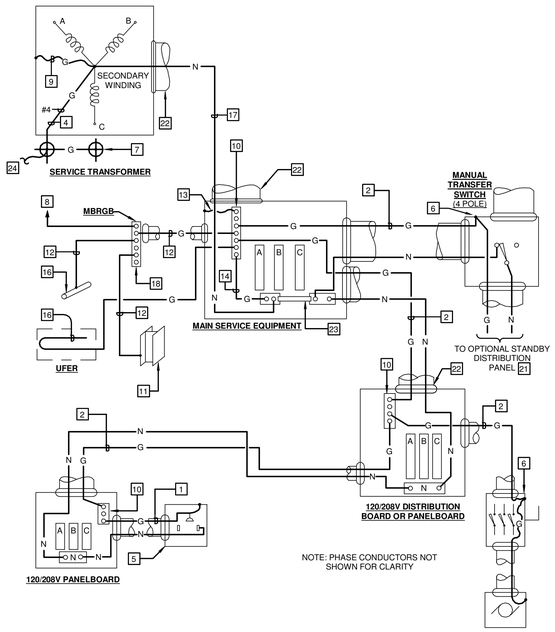


1 ALL EQUIPMENT GROUNDING CONDUCTORS FOR RECEPTACLE BRANCH CIRCUITS SHALL BE SIZED PER N.E.C. ARTICAL 250. MULTIPLE BRANCH CIRCUIT HOMERUNS SHALL USE ONLY ONE EQUIPMENT GROUNDING CONDUCTOR, UON.

2 SIZE EQUIPMENT GROUNDING CONDUCTORS FOR FEEDER CIRCUITS PER FEEDER SCHEDULE OR IF NOT SHOWN PER N.E.C. ARTICLE 250.

3 ROUTE ONE COPPER GROUNDING ELECTRODE CONDUCTOR, SIZED PER N.E.C. ARTICAL 250, IN CONDUIT TO GROUNDING ELECTRODES SHOWN.

4 UTILITY SERVICE GROUNDING SHALL BE IN ACCORDANCE WITH N.E.C. ARTICLE 250.

5 TYPICAL RECEPTACLE WITH EQUIPMENT GROUNDING CONDUCTOR. GROUND PER N.E.C. ARTICLE 250.

6 CONNECT EQUIPMENT GROUNDING CONDUCTORS TO GROUND LUG BONDED TO THE ENCLOSURE.

7 GROUND ROD OR OTHER MADE ELECTRODES PER N.E.C. ARTICLE 250 AND AS SHOWN ON DRAWINGS AND SPECIFICATIONS. PROVIDE 10'-0" MINIMUM BETWEEN RODS.

8 GROUND CONNECTION TO COMMUNICATION BACKBOARDS, ETC. REFER TO EACH SYSTEM FOR SIZE AND QUANTITY.

9 MAIN BONDING JUMPER: SIZE PER N.E.C. ARTICLE 250.

10 EQUIPMENT COPPER GROUNDING BAR BONDED TO ENCLOSURE.

11 NEAREST EFFECTIVELY GROUNDED BUILDING STEEL.

12 GROUNDING ELECTRODE COPPER CONDUCTOR: #4/0 AWG MIN.

13 EQUIPMENT BONDING JUMPER PER N.E.C. ARTICLE 250.

14 SERVICE MAIN BONDING JUMPER PER N.E.C. ARTICLE 250.

15 SEPARATELY DERIVED SYSTEM GROUNDING ELECTRODE PER N.E.C. ARTICLE 250. CONNECT TO MAIN BUILDING REFERENCE GROUND BUS IF IN SAME ROOM.

16 UFER GROUND. REFER TO SPECIFICATION SECTION 16061.

17 GROUNDED CONDUCTOR (NEUTRAL) BROUGHT TO SERVICE EQUIPMENT PER N.E.C. ARTICLE 250.

18 MAIN BUILDING REFERENCE GROUND BUS. REFER TO SPECIFICATION SECTION 16061

19 COLD WATER PIPE PER N.E.C. ARTICLE 250.

20 TO LIGHTING OR OTHER 277 VOLT BRANCH CIRCUIT.

21 ALL GROUNDINGS FOR THE OPTIONAL STANDBY POWER DISTRIBUTION SYSTEM SHALL CONFORM TO ALL REQUIREMENTS SHOWN FOR THE NORMAL POWER DISTRIBUTION SYSTEM.

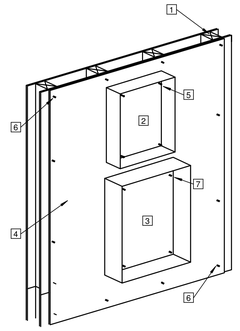
22 BOND PARALLEL METALLIC CONDUITS TOGETHER USING GROUNDING BUSHINGS AND ONE GROUNDING CONDUCTOR IDENTICAL IN SIZE TO GROUNDING CONDUCTOR IN EACH OF THE PARALLEL CONDUIT RUNS.

23 REMOVABLE NEUTRAL DISCONNECT LINK.

24 PROVIDE COUNTER EMPOSED GROUND WIRE IN 12KV DUCT BANK PER SPECIFICATIONS.

1 GROUNDING SYSTEM SCHEMATIC WIRING DIAGRAM

SCALE:NTS



DETAIL NOTES

1 FRAMED WALL

2 PANEL UNDER 20 LBS

3 PANEL 40 LBS TO 100 LBS

4 3/4" FIRE TREATED PLYWOOD BACKBOARD CUT TO FIT. PAINT P-1

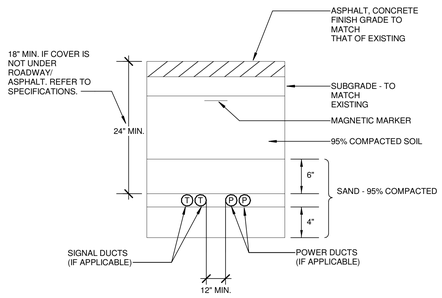
5 #10 X 1" WOOD SCREW INTO PLYWOOD

6 ON WOOD STUD CENTERS USE: 1/4"x 2/5" LAG BOLT WITH LARGE WASHER. METAL STUDS CENTERS USE: HILTI-S-WW 12-24x2 PFH #4 SCREWS @12" O.C. ON PERIMETER & 24" O.C. IN FIELD OF PLYWOOD

7 1/4"x 1" LAG BOLT INTO PLYWOOD

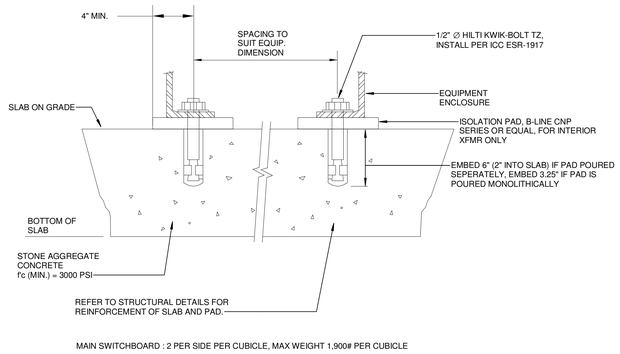
2 WALL MOUNT PANELS AND BACKBOARD

SCALE: 12" = 1'-0"



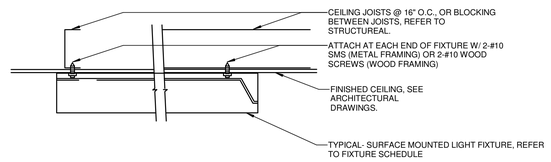
3 JOINT TRENCH

SCALE:NTS



4 EQUIPMENT ANCHORAGE

SCALE:NTS



5 SURFACE MOUNTED FIXTURE

SCALE:NTS

Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
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www.ldapartners.com

SCOTT WHEELER
#E015677
Exp. 12-31-27
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Key Plan:

Project No.: 25084
Drawn By: AS
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BID SET
6/23/2026

ELECTRICAL DETAILS

E7.02

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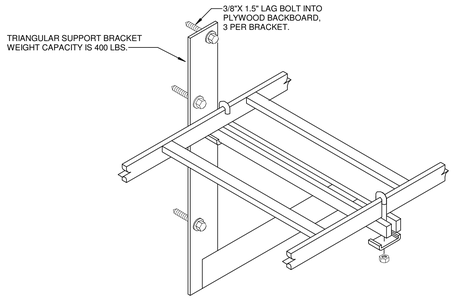
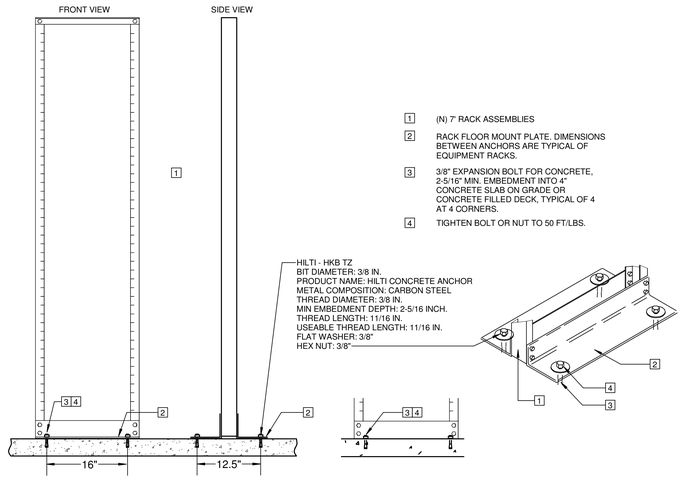


1 ANGLE WALL SUPPORT

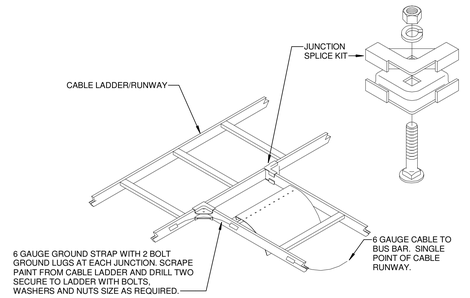
SCALE: 12" = 1'-0"



1. (IN) 7' RACK ASSEMBLIES
2. RACK FLOOR MOUNT PLATE. DIMENSIONS BETWEEN ANCHORS ARE TYPICAL OF EQUIPMENT RACKS.
3. 3/8" EXPANSION BOLT FOR CONCRETE, 2-5/16" MIN. EMBEDMENT INTO 4" CONCRETE SLAB ON GRADE OR CONCRETE FILLED DECK, TYPICAL OF 4 AT 4 CORNERS.
4. TIGHTEN BOLT OR NUT TO 50 FT/LBS.

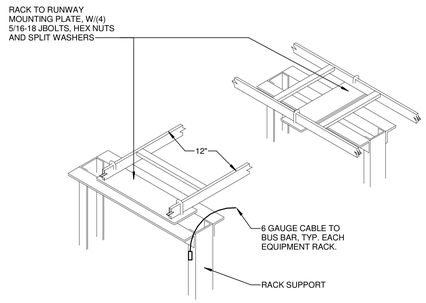
2 EQUIPMENT RACK BASE SUPPORT

SCALE:NTS



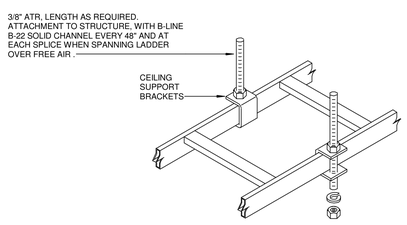
3 LADDER JUNCTION KIT

SCALE: 12" = 1'-0"



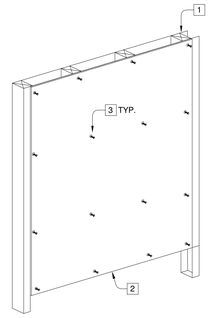
4 LADDER TO RACK SUPPORT

SCALE: 12" = 1'-0"



5 LADDER VERTICAL SUPPORT

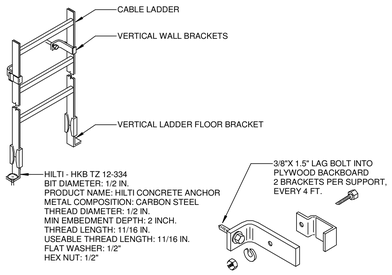
SCALE: 12" = 1'-0"



1. LIGHT GAUGE WOOD FRAMED WALL.
2. 3/4" THICK, 8' HIGH FIRE RETARDANT TREATED AND PAINTED PLYWOOD BACKBOARD CUT TO FIT, INSTALL +4" A.F.F.
3. ATTACH BACKBOARD EVERY 12" AT WOOD STUD CONSTRUCTION, USE HILTI-S-WW 12-24x2 PFH #10 SCREWS.

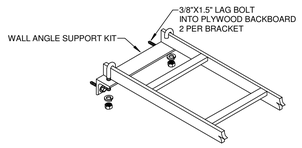
6 PLYWOOD BACKBOARD MOUNTING DETAIL

SCALE: 1" = 200'-0"



7 VERTICAL LADDER SUPPORT

SCALE: 12" = 1'-0"



8 LADDER END SUPPORT BRACKET

SCALE: 12" = 1'-0"

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Project:
LATHROP ANIMAL SERVICES

15005 STANFORD CROSSING
LATHROP, CA. 95330

Key Plan:

Project No.: 25084
Drawn By: AS
Checked By: SW

No.	Description	Date	By

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SPECIAL SYSTEMS DETAILS

E7.03

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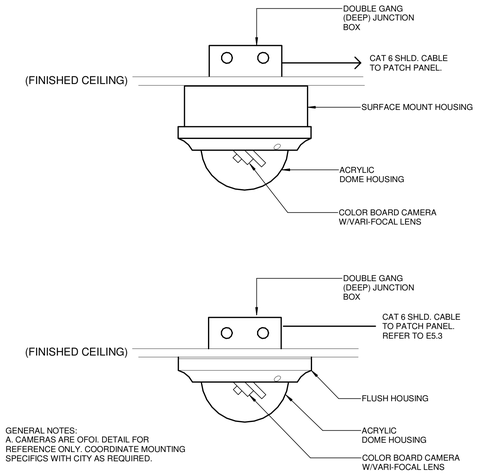
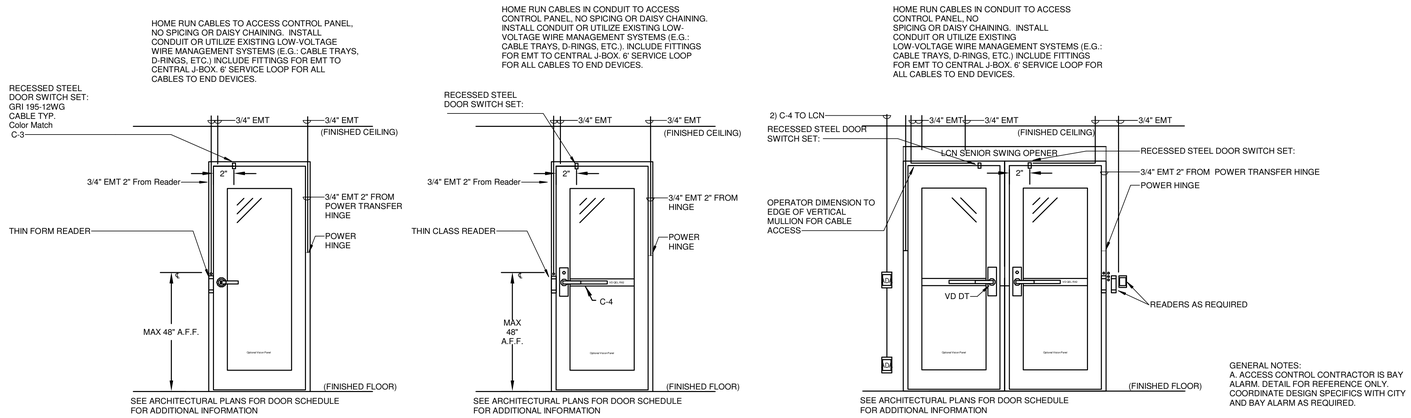


1 FLUSH MOUNT DOME CAMERA DETAIL

SCALE: 12" = 1'-0"



2 DOOR READER DETAIL

SCALE: 12" = 1'-0"

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SPECIAL SYSTEMS DETAILS

E7.04

NUMBERED SHEET NOTES

1. SHUT OFF CONTROL FOR SPACE SHALL BE TIME CLOCK SCHEDULED TO TURN LIGHTS OFF AFTER HOURS, WITH MANUAL OVERRIDE PROVIDED BY LOCAL SWITCH. OVERRIDE SHALL NOT EXCEED 2 HOURS.
2. PROVIDE HARDWARE TO MOUNT AREA LIGHT TO SHADE STRUCTURE. COORDINATE WITH ARCHITECTURAL PLANS.
3. PROVIDE HIGH BAY MOTION SENSOR AS REQUIRED.
4. MOUNT EXIT SIGN ABOVE GLAZING. BOTTOM EDGE OF SIGN SHALL BE WITHIN 6 FEET 8 INCHES OF TOP OF DOOR.
5. SWITCH OVERRIDE FOR EXTERIOR LIGHTING SHALL BE 1 HOUR OR AS DIRECTED BY CITY.

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

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EGRESS PHOTOMETRICS PLAN

E8.01

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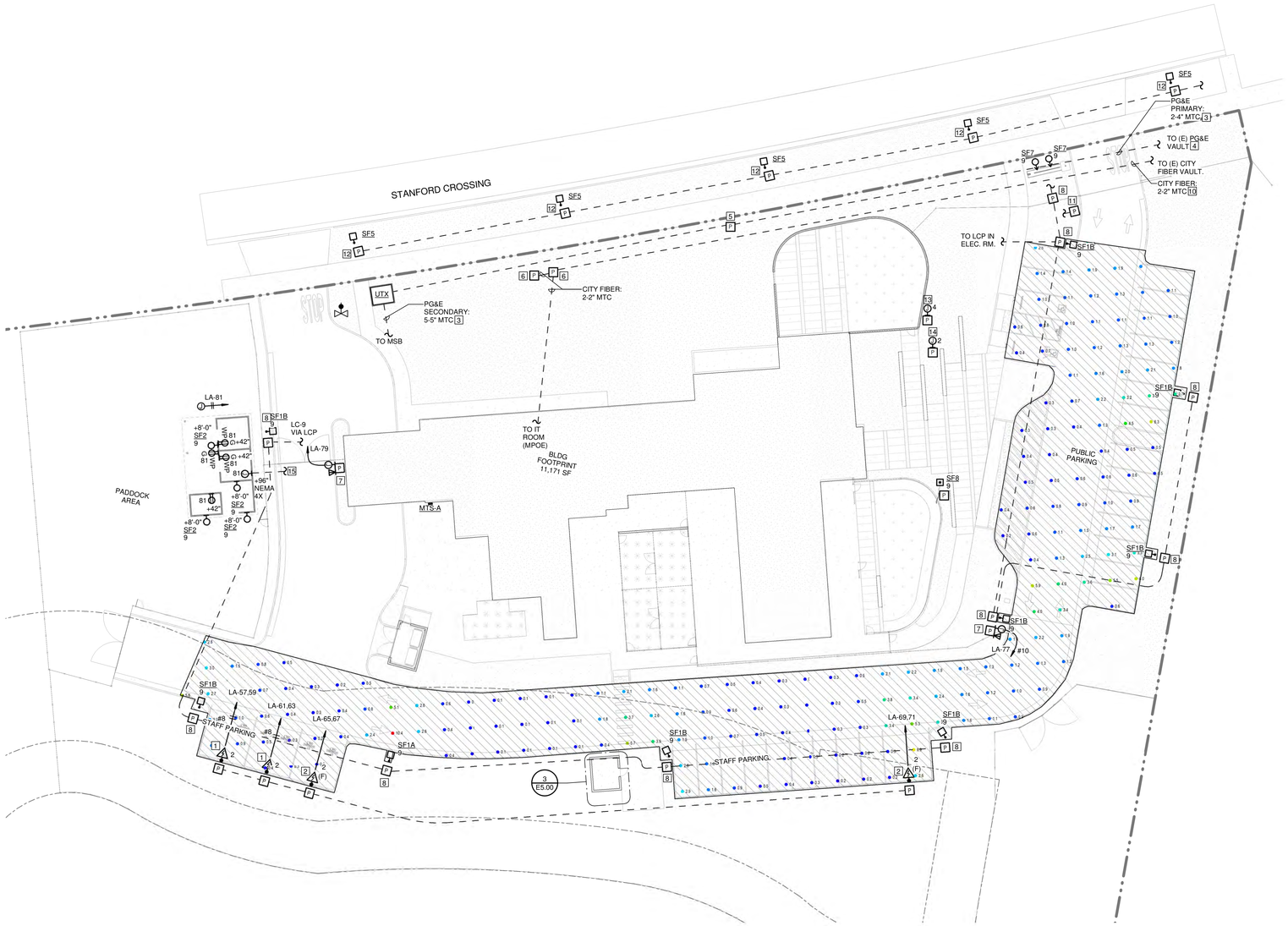
GENERAL SHEET NOTES

A. SITE LIGHTING SHALL COMPLY WITH LATHROP MUNICIPAL CODE MAXIMUMS. PHOTOMETRICS ARE FOR REFERENCE ONLY. FINAL FOOTCANDLE VALUES WILL VARY BASED ON SELECTED PRODUCTS AND FIELD CONDITIONS.



1 SITE PLAN - PHOTOMETRICS

SCALE: 1" = 20'-0"

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SITE PLAN - PHOTOMETRICS

E8.02

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