

C:\Local2529 Ripon Elementary Parking Lot Central_Paul.rvt

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	ABV	ABOVE	LTWT	LIGHT WEIGHT											
	AFF	ABOVE FINISH FLOOR	L	LONG/LENGTH											
	ACC	ACCESSIBLE	LV	LOUVER VENT											
	ACOUS	ACOUSTICAL	MB	MACHINE BOLT											
B	ADJ	ADJUSTABLE	MH	MAN HOLE											
	AC	AIR CONDITIONING		MANUFACTURER											
	ALT	ALTERNATE	MAS	MASONRY											
	ALUM	ALUMINUM	MAX	MAXIMUM											
C	AB	ANCHOR BOLT	MECH	MECHANICAL											
	ANOD	ANODIZED		METAL											
	ARCH	ARCHITECT(U)RAL	MIN	MINIMUM											
	AC	ASPHALT CONCRETE	MISC	MISCELLANEOUS											
D	APL	ASSUMED PROPERTY LINE	MTD	MOUNTED											
	AUTO	AUTOMATIC	(N)	NEW											
	BM	BEAM	NRC	NOISE REDUCTION COEFF.											
	BET	BETWEEN	NOM	NOMINAL											
E	BLK	BLOCK	N	NORTH											
	BLKG	BLOCKING	NIC	NOT IN CONTRACT											
	BD	BOARD	NTS	NOT TO SCALE											
	BOT	BOTTOM	NO#	NUMBER											
F	BOB	BOTTOM OF BEAM	OC	ON CENTER											
	BLDG	BUILDING	OPNG	OPENING											
	CIP	CAST IN PLACE	OD	OUTSIDE DIAMETER											
	CB	CATCH BASIN	OI	OVER											
G	CLKG	CAULKING	OFOI	OWNER FURNISHED OWNER INSTALLED											
	CLG	CEILING		OWNER FURNISHED CONTRACTOR INSTALLED											
	CJ	CEILING JOIST / CONTROL JOINT	OFCI												
	CEM	CEMENT	PR	PAIR											
H	CL	CHAIN LINK	PTD	PAPER TOWEL DISPENSER											
	CO	CLEAN OUT	d	PENNY											
	CLR	CLEAR(ENCE)	PERF	PERFORATED											
	COL	COLUMN		PLASTER											
I	COMB	COMBINATION	PLYWD	PLYWOOD											
	CONC	CONCRETE	PT	POINT											
	CMU	CONCRETE MASONRY UNIT	POC	POINT OF CONNECTION											
	CONST	CONSTRUCTION	PVC	POLYVINYL CHLORIDE											
J	CONT	COUNTER SINK	PSI	POUNDS PER SQ. INCH											
	CTSK	DEEP	PSF	POUNDS PER SQ.FT.											
	DP	DEEP (DEPTH)	PREFAB	PREFABRICATED											
	DEPT	DEPARTMENT	P.T.	PRESSURE TREATED											
K	DTL	DETAIL	PTDF	PRESSURE TREATED DOUG. FIR											
	DIAG	DIAGONAL	PROJ	PROJECT											
	DIA	DIAMETER	P.L.	PROPERTY LINE											
	DIM	DIMENSION	RAD	RADIUS											
L	DISP	DISPENSER	REF	REFERENCE											
	DR	DOOR	REFL	REFLECTED											
	DBL	DOUBLE	REFR	REFRIGERATOR											
	DF	DOUGLAS FIR	REINF	REINFORCE(ING)											
M	DN	DOWN	REQ	REQUIRED											
	DS	DOWN SPOUT	RA	RETURN AIR											
	DWG	DRAWING	REV	REVISION(S)/REVISED											
	DF	DRINKING FOUNTAIN	ROW	RIGHT OF WAY											
N	EA	EACH	R	RISER/RADIUS											
	EW	EACH WAY	R	ROOF DRAIN											
	E	EAST	RM	ROOM											
	EWC	ELECT. WATER COOLER	RO	ROUGH OPENING											
O	ELEC	ELECTRIC(AL)	RB	RUBBER BASE											
	ELEV	ELEVATION	SECT	SECTION											
	EMER	EMERGENCY	SHTG	SHEETHEATHING											
	ENCL	ENCLOSURE	SHT	SHEET											
P	EQ	EQUAL	SM	SHEET METAL											
	EXH	EXHAUST	SIM	SIMILAR											
	EXISTING	EXISTING	SD	SOAP DISPENSER											
	EJ	EXPANSION JOINT	SC	SOLID CORE											
Q	EXP	EXPOSED/EXPANSION	STC	SOUND TRANSMISSION COEFF.											
	EXT	EXTERIOR	S	SOUTH											
	FOC	FACE OF CONCRETE	SPEC	SPECIFICATION											
	FOF	FACE OF FINISH	SO	SQUARE											
R	FOM	FACE OF MASONRY	SF	SQUARE FOOT											
	FOS	FACE OF STUD/STRUCTURE	SS	STAINLESS STEEL											
	FIN	FINISH	STD	STANDARD											
	FF	FINISH FLOOR	STL	STEEL											
S	FA	FIRE ALARM	STOR	STORAGE											
	FE	FIRE EXTINGUISHER	STRUCT	STRUCTURE											
	FEC	FIRE EXTINGUISHER CABINET	SAS	SURFACE FOUR SIDES											
	FH	FIRE HYDRANT	SUSP	SUSPENDED											
T	FLASH	FLASHING	SAT	SUSPENDED ACOUSTICAL TILE											
	FLR	FLOOR	SYM	SYMBOL/SYMMETRICAL											
	FT	FOOT / FEET	TB	TACKBOARD											
	FTG	FOOTING	TEL	TELEPHONE											
U	FDN	FOUNDATION	TV	TELEVISION											
	GA	GAGE / GAUGE	THK	THICK											
	GI	GALVANIZED IRON	THRES	THRESHOLD											
	GL	GLASS / GLAZING	T&G	TONGUE & GROOVE											
V	GALV	GLVANIZED	TGB	TOP OF BEAM											
	GLB	GLUE LAMINATED BEAM	TGC	TOP OF CURB/CONCRETE											
	GB	GRAB BAR	TOP	TOP OF PLATE/PAKET/PAVEMENT											
	GND	GROUND	TOS	TOP OF SHEATHING STEEL/SLAB											
W	GYP	GYPSPUM	TOW	TOP OF WALK/WALL											
	GYPBD	GYPSPUM BOARD	T	TREAD											
	HDW	HARDWARE	TYP	TYPICAL											
	HDR	HEADER	UNO	UNLESS NOTED OTHERWISE											
X	HVAC	HEATING/VENTILATING/AIR CONDITION	UR	URINAL											
	HT	HEIGHT	VERT	VERTICAL											
	H	HIGH	VCT	VINYL COMPOSITION TILE											
	HC	HOLLOW CORE	WSTC	WAINSCOT											
Y	HM	HOLLOW METAL	WC	WATER CLOSET											
	HSS	HOLLOW STRUCTURAL SECTION	WH	WATER HEATER											
	HORIZ	HORIZONTAL	WP	WATER PROOFING											
	HB	HOSE BIB	WR	WATER RESISTANCE											
Z	HR	HOUR	WT	WEIGHT											
	IN	INCH	WWF	WELDED WIRE FABRIC											
	ID	INSIDE DIAMETER	W	WEST/WIDTH/WIDE											
	INSUL	INSULATION	WDW	WINDOW											
AA	INT	INTERIOR	WI	WITH											
	LAB	LABORATORY	WIO	WITHOUT											
	LAM	LAMINATE(D)	WD	WOOD											
	LAV	LAVATORY	WWM	WOVEN WIRE MESH											
AB	LT	LIGHT	WI	WROUGHT IRON											

ABBREVIATIONS

GENERAL NOTES

GENERAL NOTES	
01.	THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK (SECTION 4-317(C), PART 1, TITLE 24, CCR)
02.	CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE OWNER, ARCHITECT, AND DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
03.	THE LOCATION AND STORAGE OF CONSTRUCTION MATERIALS AND THE EFFECTS ON EXISTING OCCUPIED BUILDINGS SHALL BE APPROVED BY THE CITY OF RIPON FIRE DEPARTMENT.
04.	TEMPORARY TOILET FACILITIES SHALL BE PROVIDED PER THE PROJECT MANUAL UNDER TEMPORARY FACILITIES.
05.	ALL PENETRATIONS IN FIRE RATED ASSEMBLIES SHALL BE PROTECTED IN ACCORDANCE WITH C.B.C. CHAPTER 7.
06.	TESTING OF MATERIALS SHALL BE CONDUCTED BY A TESTING LAB SELECTED BY THE OWNER & APPROVED BY THE ARCHITECT. THE OWNER SHALL PAY FOR TESTING OF MATERIALS IN ACCORDANCE WITH SECTION 01410.
07.	A "DSA CERTIFIED" PROJECT INSPECTOR (CLASS 3) EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE ARCHITECT AND DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
08.	A COPY OF TITLE 24 PART ONE TO FIVE SHALL BE KEPT AVAILABLE IN THE FIELD BY THE INSPECTOR AND THE CONTRACTOR DURING CONSTRUCTION.
09.	ALL ITEMS ARE TO BE CONSIDERED NEW UNLESS IDENTIFIED AS (E) OR EXISTING
10.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING AN UNDERGROUND UTILITY LOCATING SERVICE AND WILL BE RESPONSIBLE FOR REPAIRS TO ANY AND ALL UNDERGROUND UTILITIES DAMAGED IN THE TRENCHING AND/OR HORIZONTAL BORING AT THE SITE THE FIELD BY THE INSPECTOR
11.	IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE TO BECOME FAMILIAR WITH THE PROJECT AREA AND SITE CONDITIONS
12.	THE CONTRACTOR SHALL ADVISE THE OWNER AND ARCHITECT OF THE SCHEDULE AND COORDINATE WORK AS SO TO HAVE THE LEAST POSSIBLE IMPACT ON THE OWNER'S OPERATIONS
13.	EXISTING IMPROVEMENTS AND UTILITIES DAMAGED DURING THE COURSE OF THE WORK SHALL BE PROMPTLY REPAIRED. EXISTING IMPROVEMENTS AND UTILITIES DAMAGED, FOR WHICH LOCATIONS WERE UNKNOWN, SHALL BE IMMEDIATELY BROUGHT TO THE ARCHITECT'S ATTENTION AND PROMPTLY REPAIRED AT HIS DIRECTION. THE WORK REQUIRED TO REPAIR DAMAGED EXISTING WILL BE REVIEWED AND TAKEN UNDER CONSIDERATION AS EXTRA WORK
14.	THE CONTRACTOR WILL VERIFY EXACT CONDITIONS AND DIMENSIONS IN THE FIELD
15.	ADEQUATELY PROTECT ALL PERSONNEL AND THE PUBLIC FROM HARM AND ACCIDENT DURING WORK OF THIS PROJECT. BY THE ERECTION OF PROPER BARRICADES, SIGNAGE AND LIGHTING AS MAY BE NECESSARY. ADEQUATELY PROTECT ALL EXISTING BUILDINGS AND SURFACES ADJACENT TO THE WORK OF THIS PROJECT FROM DAMAGE
16.	NO INTERFERENCE OF THE USE OF FIRE LANES OR PUBLIC EGRESS AT ANY TIME SHALL BE ALLOWED UNLESS OTHERWISE AUTHORIZED IN THESE DOCUMENTS OR IN WRITING
17.	ALL RUBBISH AND DEBRIS SHALL BE LEGALLY DISPOSED OF OFF THE SITE BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN THE PREMISES FREE OF ACCUMULATED WASTE AND MATERIALS CAUSED BY CONTRACTORS, EMPLOYEES OR WORK, OR THE EMPLOYEES OR WORK OF THE SUBCONTRACTORS
18.	NO MATERIAL OR EQUIPMENT SHALL BE LEFT ON THE PROJECT SITE OVERNIGHT UNSECURED.
19.	IN ACCORDANCE WITH THE GENERAL CONDITIONS OF THE CONTRACT, A FULL-TIME SUPERINTENDENT SHALL BE EMPLOYED BY THE CONTRACTOR AND SHALL BE PRESENT AT THE JOB SITE WHILE WORK IS BEING PERFORMED
20.	THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR EXISTING CONCRETE WALKS, LANDSCAPING, IRRIGATION SYSTEMS, ETC. WHICH MAY BE DAMAGED BY THE WORK OF THIS PROJECT, IF DAMAGE OCCURS, CONTRACTOR MUST REPAIR
21.	A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
22.	GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
23.	SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDUM, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION PER DSA I.R. 6 AND SECTION 338(C) PART 1, TITLE 24 CCR.
GENERAL DEMOLITION NOTES	
01.	THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CORRECTION / CLARIFICATION PRIOR TO EXECUTION OF THE WORK.
02.	DETAILING, MATERIALS & FINISHES ARE TYPICAL FOR ALL SIMILAR CONDITIONS.
03.	THE INTENT OF THE DEMOLITION PLANS IS TO DESCRIBE THE GENERAL SCOPE OF THE DEMOLITION WORK BUT DOES NOT NECESSARILY DEPICT ALL ITEMS / CONDITIONS REQUIRED TO COMPLETE THE RELEVANT WORK AS INDICATED IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR AND ANY RELEVANT SUB-CONTRACTOR SHALL PERFORM A THOROUGH SITE INVESTIGATION PRIOR TO BIDDING AND/OR COMMENCING WITH THE WORK.
04.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING ALL RELATED FEES FOR A DEMOLITION PERMIT FROM SAN JOAQUIN AIR POLLUTION CONTROL DISTRICT AND IS TO COMPLY WITH ALL SAN JOAQUIN REQUIREMENTS INCLUDING NOTIFICATIONS.

APPLICABLE CODES

SHEETS - GENERAL	
CS	COVER SHEET
CG.1	CALGREEN NON-RESIDENTIAL MANDATORY MEASURES
CG.2	CALGREEN NON-RESIDENTIAL MANDATORY MEASURES
CG.3	CALGREEN NON-RESIDENTIAL MANDATORY MEASURES
CG.4	CALGREEN NON-RESIDENTIAL MANDATORY MEASURES
CA.1	CALGREEN SHADE PLAN
SHEETS - CIVIL	
C1	CIVIL SPECIFICATIONS
C2	EXISTING TOPOGRAPHY
C3	DEMOLITION PLAN
C4	HORIZONTAL CONTROL PLAN
C5	GRADING AND DRAINAGE PLAN
C6	UTILITY PLAN
C7	CONSTRUCTION DETAILS
C8	GRADING DETAILS AND SECTIONS
SHEETS - LANDSCAPE	
L0.1	LANDSCAPE SCHEDULES AND NOTES
L1.1	IRRIGATION AND LANDSCAPE DEMOLITION PLAN
L1.2	IRRIGATION PLAN
L2.1	PLANTING PLAN
L3.1	IRRIGATION DETAILS
L4.1	PLANTING DETAILS
L5.1	WELD NOTES AND CALCULATIONS
SHEETS - ARCHITECTURAL	
AS.1	SITE PLAN - DEMOLITION
AS.2	SITE PLAN - NEW CONSTRUCTION
AS.3	SITE PLAN - ENLARGED SITE PLANS
AS.4	SITE DETAILS - FLATWORK AND PARKING
AS.5	SITE DETAILS - FENCES
AS.6	SITE DETAILS - EV CHARGER
SHEETS - ELECTRICAL	
E0.1	GENERAL NOTES
E0.2	ELECTRICAL DETAILS
E1	ELECTRICAL SITE PLAN
E2	PHOTOMETRIC STUDY
E2A	COMPLIANCE
E2B	COMPLIANCE
SHEET INDEX	
33 SHEETS TOTAL	
ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND STANDARDS	
APPLICABLE CODES - EFFECTIVE JANUARY 1, 2023	
TITLE 19 CCR	PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
TITLE 24 CCR	PART 1 - 2025 BUILDING STANDARDS ADMINISTRATIVE CODE
TITLE 24 CCR	PART 2 - 2022 CALIFORNIA BUILDING CODE, VOL. 1 & 2 (CBC) (2024 IBC, AS AMENDED BY CA)
TITLE 24 CCR	PART 3 - 2022 CALIFORNIA ELECTRICAL CODE (CEC) (2023 NEC, AS AMENDED BY CA)
TITLE 24 CCR	PART 4 - 2022 CALIFORNIA MECHANICAL CODE (CMC) (2024 IAPMO UMC, AS AMENDED BY CA)
TITLE 24 CCR	PART 5 - 2022 CALIFORNIA PLUMBING CODE (CPC) (2024 IAPMO UPC, AS AMENDED BY CA)
TITLE 24 CCR	PART 6 - 2022 CALIFORNIA ENERGY CODE
TITLE 24 CCR	PART 9 - 2022 CALIFORNIA FIRE CODE (CFC) (2024 IFC, AS AMENDED BY CA)
TITLE 24 CCR	PART 11 - 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
TITLE 24 CCR	PART 12 - 2021 REFERENCED STANDARDS
APPLICABLE STANDARDS - (PARTIAL LIST, SEE CBC CH.35 AND CFC CH. 80)	
2025 NFPA 72	NATIONAL FIRE ALARM CODE, (CA AMENDED) (SEE UL STANDARD 1971 FOR "VISUAL DEVICES")
2016 UL 464	AUDIBLE SIGNALING DEVICES
1999 UL 521	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS
CFC CH 33	FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION



2025 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1

Y	N/A	RESPON. PARTY	CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL
B			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.
C			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)
D			SECTION 302 MIXED OCCUPANCY BUILDINGS
E			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.
F			SECTION 303 PHASED PROJECTS
G			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.
H			ABBREVIATION DEFINITIONS: HCD Department of Housing and Community Development BSC California Building Standards Commission DSA-SS Division of the State Architect, Structural Safety OSHFD Office of Statewide Health Planning and Development LR Low Rise HR High Rise AA Additions and Alterations N New
I			CHAPTER 5 NONRESIDENTIAL MANDATORY MEASURES
J			DIVISION 5.1 PLANNING AND DESIGN SECTION 5.101 GENERAL
K			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.
L			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.
M			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. ZEVI [BSC-CG, DSA-SS] Any vehicle certified to zero-emission standards.
N			SECTION 5.105 DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES
O			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.
P			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).
Q			SECTION 5.106 SITE DEVELOPMENT
R			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.

Y	N/A	RESPON. PARTY	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.																																				
B			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 or sale.																																				
C			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.																																				
D			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																																				
E			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 5.106.4.1.2.3 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; 3. Lockable, permanently anchored bicycle lockers. Calculations for bicycle parking requirements shall be rounded up to the nearest whole number.																																				
F			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 alterations, 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.																																				
G			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																																				
H			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; 3. Lockable, permanently anchored bicycle lockers.																																				
I			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.																																				
J			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 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 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 device space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."																																				
K			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.																																				
L			TABLE 5.106.5.3.1 EV Capable Spaces and EVCS																																				
M			<table><tr><th>TOTAL NUMBER OF ACTUAL PARKING SPACES</th><th>NUMBER OF REQUIRED EV CAPABLE SPACES</th><th>OTHER THAN OFFICE AND RETAIL NUMBER OF REQUIRED EVCS^{a2,3}</th><th>OFFICE AND RETAIL NUMBER OF REQUIRED EVCS^{a2,3}</th></tr><tr><td>1-9</td><td>0</td><td>0</td><td>0</td></tr><tr><td>10-25</td><td>4</td><td>2</td><td>3</td></tr><tr><td>26-50</td><td>8</td><td>4</td><td>6</td></tr><tr><td>51-75</td><td>13</td><td>6</td><td>8</td></tr><tr><td>76-100</td><td>17</td><td>8</td><td>13</td></tr><tr><td>101-150</td><td>25</td><td>12</td><td>19</td></tr><tr><td>151-200</td><td>35</td><td>18</td><td>26</td></tr><tr><td>201 AND OVER</td><td>20 percent of actual parking spaces¹</td><td>50 percent of EV capable spaces¹</td><td>75 percent of EV capable spaces¹</td></tr></table>	TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	OTHER THAN OFFICE AND RETAIL NUMBER OF REQUIRED EVCS ^{a2,3}	OFFICE AND RETAIL NUMBER OF REQUIRED EVCS ^{a2,3}	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
TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	OTHER THAN OFFICE AND RETAIL NUMBER OF REQUIRED EVCS ^{a2,3}	OFFICE AND RETAIL NUMBER OF REQUIRED EVCS ^{a2,3}																																				
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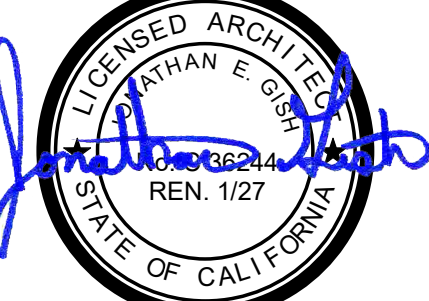
Y	N/A	RESPON. PARTY	1. Calculation for spaces shall be rounded up to the nearest whole number. 2. Each EVCS shall reduce the number of required capable spaces by the same number. 3. At least one Level 2 EVSE shall be provided.																																				
B			5.106.5.3.2 Electric vehicle charging 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.																																				
C			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 cumulatively 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 20-ampere receptacles, NEMA 6-20R 2. For 30-ampere receptacles, NEMA 14-30R 3. For 50-ampere receptacles, NEMA 14-50R																																				
D			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.																																				
E			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. 5.106.5.3.3.4 Accessible EVCS. When EVSE is installed, accessible EVCS 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).																																				
F			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.																																				
G			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.																																				
H			TABLE 5.106.5.3.6 Power Allocation Method																																				
I			<table><tr><th>TOTAL NUMBER OF ACTUAL PARKING SPACES</th><th>MINIMUM TOTAL KVA @ 6.6 KVA</th><th>OTHER THAN OFFICE AND RETAIL TOTAL KVA REQUIRED IN ANY COMBINATION OF EV CAPABLE^{2,4} LOW POWER LEVEL 2, LEVEL 2¹ OR DCFC</th><th>OFFICE AND RETAIL TOTAL KVA REQUIRED IN ANY COMBINATION OF EV CAPABLE^{2,5} LOW POWER LEVEL 2, LEVEL 2¹ OR DCFC</th></tr><tr><td>1-9</td><td>0</td><td>0</td><td>0</td></tr><tr><td>10-25</td><td>26.4</td><td>26.4</td><td>26.4</td></tr><tr><td>26-50</td><td>52.8</td><td>52.8</td><td>52.8</td></tr><tr><td>51-75</td><td>85.8</td><td>85.8</td><td>85.8</td></tr><tr><td>76-100</td><td>112.2</td><td>112.2</td><td>112.2</td></tr><tr><td>101-150</td><td>165</td><td>165</td><td>165</td></tr><tr><td>151-200</td><td>231</td><td>231</td><td>231</td></tr><tr><td>201 AND OVER</td><td>20 percent of actual parking spaces x 6.6</td><td>Total required KVA = P x 20 x 6.6 Where P = Parking spaces in facility</td><td>Total required KVA = P x 20 x 6.6 Where P = Parking spaces in facility</td></tr></table>	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 ^{2,4} LOW POWER LEVEL 2, LEVEL 2 ¹ OR DCFC	OFFICE AND RETAIL TOTAL KVA REQUIRED IN ANY COMBINATION OF EV CAPABLE ^{2,5} LOW POWER LEVEL 2, LEVEL 2 ¹ 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
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 ^{2,4} LOW POWER LEVEL 2, LEVEL 2 ¹ OR DCFC	OFFICE AND RETAIL TOTAL KVA REQUIRED IN ANY COMBINATION OF EV CAPABLE ^{2,5} LOW POWER LEVEL 2, LEVEL 2 ¹ OR DCFC																																				
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J			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 space 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																																				
K			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.																																				
L			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.																																				

Y	N/A	RESPON. PARTY	5.106.5.4.1 Existing buildings or parking areas without 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 for the total number of actual parking spaces being added or altered.																																							
B			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.																																							
C			5.106.5.5 Electric vehicle (EV) charging: medium-duty and heavy-duty. [N] [BSC-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.																																							
D			TABLE 5.106.5.5.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]																																							
E			<table><tr><th>BUILDING TYPE</th><th>BUILDING SIZE (SQ. FT.)</th><th>NUMBER OF OFFICE OR SUBPANELS LOADING SPACES</th><th>ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL</th></tr><tr><td rowspan="2">Grocery</td><td>10,000 to 90,000</td><td>1 or 2</td><td>200</td></tr><tr><td>Greater than 90,000</td><td>3 or Greater</td><td>400</td></tr><tr><td rowspan="2">Manufacturing Facilities</td><td>10,000 to 50,000</td><td>1 or 2</td><td>200</td></tr><tr><td>10,000 to 50,000</td><td>3 or Greater</td><td>400</td></tr><tr><td rowspan="2">Office Buildings</td><td>10,000 to 135,000</td><td>1 or 2</td><td>200</td></tr><tr><td>10,000 to 135,000</td><td>3 or Greater</td><td>400</td></tr><tr><td rowspan="2">Retail</td><td>10,000 to 135,000</td><td>1 or 2</td><td>200</td></tr><tr><td>Greater than 135,000</td><td>3 or Greater</td><td>400</td></tr><tr><td rowspan="2">Warehouse</td><td>20,000 to 256,000</td><td>3 or Greater</td><td>400</td></tr><tr><td>Greater than 256,000</td><td>1 or Greater</td><td>400</td></tr></table>	BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFFICE OR SUBPANELS LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL	Grocery	10,000 to 90,000	1 or 2	200	Greater than 90,000	3 or Greater	400	Manufacturing Facilities	10,000 to 50,000	1 or 2	200	10,000 to 50,000	3 or Greater	400	Office Buildings	10,000 to 135,000	1 or 2	200	10,000 to 135,000	3 or Greater	400	Retail	10,000 to 135,000	1 or 2	200	Greater than 135,000	3 or Greater	400	Warehouse	20,000 to 256,000	3 or Greater	400	Greater than 256,000	1 or Greater	400
BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFFICE OR SUBPANELS LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL																																							
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F			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."																																							
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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT		
APP: 02-124175 INC:	REVIEWED FOR	
SS ☒	FLS ☒	ACS ☒
DATE: 08/31/26		



TIMOTHY P. HUFF & ASSOCIATES, INC.
Jonathan E. Gish, AIA Architect
519 McHenry Ave., Modesto, CA 95354
Ph: (209) 571-2232 Fax: (209) 571-1936



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Consultants

**RIPON ELEMENTARY SCHOOL:
STAFF PARKING LOT**

509 WEST MAIN STREET
RIPON, CA 95366

RIPON UNIFIED SCHOOL DISTRICT

CALGREEN NON-RESIDENTIAL MANDATORY MEASURES

Project Number	2529
Date	MARCH 2026
Drawn by	PTM
Checked by	JG
CG.1	
Plot Date & Time	5/15/2026 3:14:22 PM

2025 CALIFORNIA GREEN BUILDING STANDARDS CODE

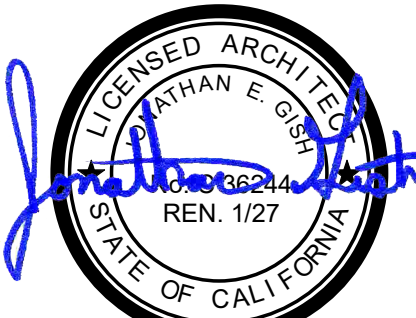
NONRESIDENTIAL MANDATORY MEASURES, SHEET 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124175 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/31/26



TPH
architects

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RIPON ELEMENTARY SCHOOL:

STAFF PARKING LOT

509 WEST MAIN STREET
RIPON, CA 95366

RIPON UNIFIED SCHOOL DISTRICT

CALGREEN NON-RESIDENTIAL MANDATORY MEASURES

[illegible]

**California**

2025 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 3

Y N/A RESPON. PARTY
+ YES APPLICABLE
+ RESPONSIBLE PARTY (i.e. ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR, ETC.)

Y	N/A	RESPON. PARTY		Y	N/A	RESPON. PARTY		Y	N/A	RESPON. PARTY		Y	N/A	RESPON. PARTY																																																																																																																																																																																					
☒	☐		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: - 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. - For a map of known pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdffa.ca.gov)	☒	☐		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 $GWP_p < GWP_{allowed}$ where $GWP_p = \Sigma (GWP_i)(V_i)$ and $GWP_{allowed} = \Sigma (GWP_{allowed})(V_i)$ a = each concrete mix installed in the project $GWP_p = \text{the GWP for concrete mix, per concrete mix EPD, in kg CO}_2\text{e/m}^3$ $GWP_{allowed} = \text{the GWP potential allowed for concrete mix, per Table 5.409.3}$ $V_i = \text{the volume of concrete mix, installed in the project, in m}^3$	☒	☐		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: - System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces). - Review and demonstration of servicing/preventive maintenance. - Review of the information in the Systems Manual. - 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: - Renewable energy systems. - Landscape irrigation systems. - 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 guarantees/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.	☒	☐		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: - 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. - 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} <table border="1"><thead><tr><th>Less Water and Less Exempt Compounds in Grams per Liter</th><th></th></tr></thead><tbody><tr><td>ARCHITECTURAL APPLICATIONS</td><td>CURRENT VOC LIMIT</td></tr><tr><td>INDOOR CARPET ADHESIVES</td><td>50</td></tr><tr><td>CARPET PAD ADHESIVES</td><td>50</td></tr><tr><td>OUTDOOR CARPET ADHESIVES</td><td>150</td></tr><tr><td>WOOD FLOORING ADHESIVES</td><td>100</td></tr><tr><td>RUBBER FLOOR ADHESIVES</td><td>60</td></tr><tr><td>SUBFLOOR ADHESIVES</td><td>50</td></tr><tr><td>CERAMIC TILE ADHESIVES</td><td>65</td></tr><tr><td>VCT & ASPHALT TILE ADHESIVES</td><td>50</td></tr><tr><td>DRYWALL & PANEL ADHESIVES</td><td>50</td></tr><tr><td>COVE BASE ADHESIVES</td><td>50</td></tr><tr><td>MULTIPURPOSE CONSTRUCTION ADHESIVES</td><td>70</td></tr><tr><td>STRUCTURAL GLAZING ADHESIVES</td><td>100</td></tr><tr><td>SINGLE-PLY ROOF MEMBRANE ADHESIVES</td><td>250</td></tr><tr><td>OTHER ADHESIVES NOT SPECIFICALLY LISTED</td><td>50</td></tr><tr><td>SPECIALTY APPLICATIONS</td><td></td></tr><tr><td>PVC WELDING</td><td>510</td></tr><tr><td>CPVC WELDING</td><td>490</td></tr><tr><td>ABS WELDING</td><td>325</td></tr><tr><td>PLASTIC CEMENT WELDING</td><td>250</td></tr><tr><td>ADHESIVE PRIMER FOR PLASTIC</td><td>550</td></tr><tr><td>CONTACT ADHESIVE</td><td>80</td></tr><tr><td>SPECIAL PURPOSE CONTACT ADHESIVE</td><td>250</td></tr><tr><td>STRUCTURAL WOOD MEMBER ADHESIVE</td><td>140</td></tr><tr><td>TOP & TRM ADHESIVE</td><td>250</td></tr><tr><td>SUBSTRATE SPECIFIC APPLICATIONS</td><td></td></tr><tr><td>METAL TO METAL</td><td>30</td></tr><tr><td>PLASTIC FOAMS</td><td>50</td></tr><tr><td>POROUS MATERIAL (EXCEPT WOOD)</td><td>50</td></tr><tr><td>WOOD</td><td>30</td></tr><tr><td>FIBERGLASS</td><td>80</td></tr></tbody></table> 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/CURHTMUR1168.PDF TABLE 5.504.4.2 - SEALANT VOC LIMIT <table border="1"><thead><tr><th>Less Water and Less Exempt Compounds in Grams per Liter</th><th></th></tr></thead><tbody><tr><td>SEALANTS</td><td>CURRENT VOC LIMIT</td></tr><tr><td>ARCHITECTURAL</td><td>250</td></tr><tr><td>MARINE DECK</td><td>760</td></tr><tr><td>NONMEMBRANE ROOF</td><td>300</td></tr><tr><td>ROADWAY</td><td>250</td></tr><tr><td>SINGLE-PLY ROOF MEMBRANE</td><td>450</td></tr><tr><td>OTHER</td><td>420</td></tr><tr><td>SEALANT PRIMERS</td><td></td></tr><tr><td>ARCHITECTURAL</td><td></td></tr><tr><td>NONPOROUS</td><td>250</td></tr><tr><td>POROUS</td><td>775</td></tr><tr><td>MODIFIED BITUMINOUS</td><td>500</td></tr><tr><td>MARINE DECK</td><td>760</td></tr><tr><td>OTHER</td><td>750</td></tr></tbody></table> NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.	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 & TRM ADHESIVE	250	SUBSTRATE SPECIFIC APPLICATIONS		METAL TO METAL	30	PLASTIC FOAMS	50	POROUS MATERIAL (EXCEPT WOOD)	50	WOOD	30	FIBERGLASS	80	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	☒	☐		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. [BSC-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: - Software for calculating whole building life cycle assessment is available for free at Athena Sustainable Materials Institute (https://calculatela.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 (simaopro.com), OneClick LCA (www.oneclicklca.com) and Tally for Revit (apps.autodesk.com). - 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. - 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 <table border="1"><thead><tr><th>BUY CLEAN CALIFORNIA MATERIALS PRODUCT CATEGORY¹</th><th>MAXIMUM ACCEPTABLE GWP VALUE (unfabricated) (GWP_{allowed})</th><th>UNIT OF MEASUREMENT</th></tr></thead><tbody><tr><td>Hot-rolled structural steel sections</td><td>1.77</td><td>MT CO₂e/MT</td></tr><tr><td>Hollow structural sections</td><td>3.00</td><td>MT CO₂e/MT</td></tr><tr><td>Steel plate</td><td>2.61</td><td>MT CO₂e/MT</td></tr><tr><td>Concrete reinforcing steel</td><td>1.56</td><td>MT CO₂e/MT</td></tr><tr><td>Flat glass</td><td>2.50</td><td>kg CO₂e/MT</td></tr><tr><td>Light-density mineral wool board insulation</td><td>5.83</td><td>kg CO₂e/MT</td></tr><tr><td>Heavy-density mineral wool board insulation</td><td>14.28</td><td>kg CO₂e/MT</td></tr><tr><td colspan="3">Concrete, Ready-Mixed², ³</td></tr><tr><td>CONCRETE PRODUCT CATEGORY</td><td>MAXIMUM GWP ALLOWED VALUE (GWP_{allowed})</td><td>UNIT OF MEASUREMENT</td></tr><tr><td>up to 2499 psi</td><td>450</td><td>kg CO₂e/m³</td></tr><tr><td>2500–3499 psi</td><td>489</td><td>kg CO₂e/m³</td></tr><tr><td>3500–4499 psi</td><td>566</td><td>kg CO₂e/m³</td></tr><tr><td>4500–5499 psi</td><td>661</td><td>kg CO₂e/m³</td></tr><tr><td>5500–6499 psi</td><td>701</td><td>kg CO₂e/m³</td></tr><tr><td>6500 psi and greater</td><td>799</td><td>kg CO₂e/m³</td></tr><tr><td colspan="3">Concrete, Lightweight Ready-Mixed²</td></tr><tr><td>CONCRETE PRODUCT CATEGORY</td><td>MAXIMUM GWP ALLOWED VALUE (GWP_{allowed})</td><td>UNIT OF MEASUREMENT</td></tr><tr><td>up to 2499 psi</td><td>875</td><td>kg CO₂e/m³</td></tr><tr><td>2500–3499 psi</td><td>956</td><td>kg CO₂e/m³</td></tr><tr><td>3500–4499 psi</td><td>1039</td><td>kg CO₂e/m³</td></tr></tbody></table> 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.	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 ₂ e/MT	Hollow structural sections	3.00	MT CO ₂ e/MT	Steel plate	2.61	MT CO ₂ e/MT	Concrete reinforcing steel	1.56	MT CO ₂ e/MT	Flat glass	2.50	kg CO ₂ e/MT	Light-density mineral wool board insulation	5.83	kg CO ₂ e/MT	Heavy-density mineral wool board insulation	14.28	kg CO ₂ e/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 ₂ e/m ³	2500–3499 psi	489	kg CO ₂ e/m ³	3500–4499 psi	566	kg CO ₂ e/m ³	4500–5499 psi	661	kg CO ₂ e/m ³	5500–6499 psi	701	kg CO ₂ e/m ³	6500 psi and greater	799	kg CO ₂ e/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 ₂ e/m ³	2500–3499 psi	956	kg CO ₂ e/m ³	3500–4499 psi	1039	kg CO ₂ e/m ³	☒	☐		Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.62 (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 <i>Public Resources Code</i> . 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 by the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 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: - Owner's or Owner representative's project requirements. - Basis of Design. - Commissioning measures shown in the construction documents. - Commissioning plan. - Functional performance testing. - Documentation and training. - Commissioning report. Exceptions: - Unconditioned warehouses of any size. - Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses. - Tenant improvements less than 10,000 square feet as described in Section 303.1.1. - 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: - Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the <i>California Energy Code</i>. 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: - Environmental and sustainability goals. - Building sustainable goals. - Indoor environmental quality requirements. - Project program, including facility functions and hours of operation, and need for after hours operation. - Equipment and systems expectations. - 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: - Renewable energy systems. - Landscape irrigation systems. - 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: - General project information. - Commissioning goals. - Systems to be commissioned. Plans to test systems and components shall include: - An explanation of the original design intent. - Equipment and systems to be tested, including the extent of tests. - Functions to be tested. - Conditions under which the test shall be performed. - Measurable criteria for acceptable performance. - Commissioning team information. - 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: - Site information, including facility description, history and current requirements. - Site contact information. - Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log. - Major systems. - Site equipment inventory and maintenance notes. - A copy of verifications required by the enforcing agency or this code. - Other resources and documentation, if applicable.	☒	☐		5.409.3.1 Products shall not exceed the maximum GWP value specified in Table 5.409.3.	☒	☐	
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Hot-rolled structural steel sections	1.77	MT CO ₂ e/MT																																																																																																																																																																																																	
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Steel plate	2.61	MT CO ₂ e/MT																																																																																																																																																																																																	
Concrete reinforcing steel	1.56	MT CO ₂ e/MT																																																																																																																																																																																																	
Flat glass	2.50	kg CO ₂ e/MT																																																																																																																																																																																																	
Light-density mineral wool board insulation	5.83	kg CO ₂ e/MT																																																																																																																																																																																																	
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3500–4499 psi	566	kg CO ₂ e/m ³																																																																																																																																																																																																	
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CONCRETE PRODUCT CATEGORY	MAXIMUM GWP ALLOWED VALUE (GWP _{allowed})	UNIT OF MEASUREMENT																																																																																																																																																																																																	
up to 2499 psi	875	kg CO ₂ e/m ³																																																																																																																																																																																																	
2500–3499 psi	956	kg CO ₂ e/m ³																																																																																																																																																																																																	
3500–4499 psi	1039	kg CO ₂ e/m ³																																																																																																																																																																																																	

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Consultants

RIPON ELEMENTARY SCHOOL:
STAFF PARKING LOT509 WEST MAIN STREET
RIPON, CA 95366

RIPON UNIFIED SCHOOL DISTRICT

CALGREEN NON-RESIDENTIAL MANDATORY MEASURES



2025 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 4

Y	NA	RESPON- PARTY
☐	☒	

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 4.2.1, 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 Code 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.

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

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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/CCDCPP/DEOD/CEHLB/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/CCDCPP/DEOD/CEHLB/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.

Y	NA	RESPON- PARTY
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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.

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 ¹	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).

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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/CCDCPP/DEOD/CEHLB/IAQ/Pages/VOC.aspx#material>

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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 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/CCDCPP/DEOD/CEHLB/IAQ/Pages/VOC.aspx#material>

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

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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.

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

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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.

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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.

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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.

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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.

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5.506.2 CARBON DIOXIDE (CO₂) MONITORING. For buildings or additions equipped with demand control ventilation, CO₂ sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

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5.506.3 Carbon dioxide (CO₂) 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 through 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 exceeded 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.

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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 enforcing 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_w or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICLZ) plan.
2. L_w 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.

5.507.4.1.1 Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_w - 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.bolbaee.org/PDF/CasesStudies/stc_ratings.pdf.

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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 (CO₂), 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-fourth-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 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 over 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 that 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.

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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.

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**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. Untrained 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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TIMOTHY P. HUFF &
ASSOCIATES, INC.
Jonathan E. Gish, AIA Architect
519 McHenry Ave., Modesto, CA 95354
Ph: (209) 571-2232 Fax: (209) 571-1936



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RIPON ELEMENTARY SCHOOL:
STAFF PARKING LOT

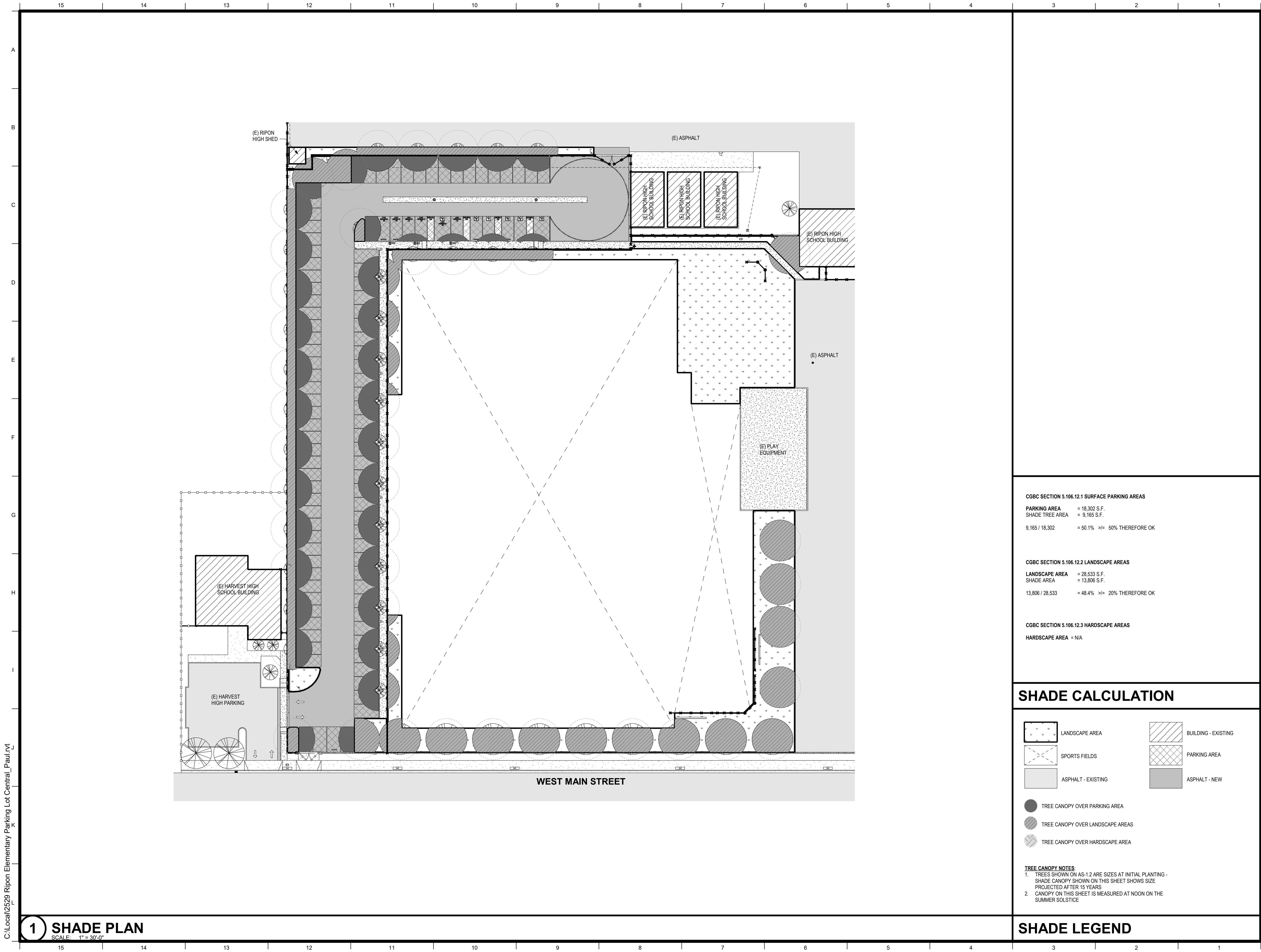
509 WEST MAIN STREET
RIPON, CA 95366
RIPON UNIFIED SCHOOL DISTRICT

CALGREEN NON-RESIDENTIAL MANDATORY MEASURES

Project Number 2529
Date MARCH 2026
Drawn by PTM
Checked by JG

CG.4

Plot Date & Time 5/15/2026 3:14:27 PM



CGBC SECTION 5.106.12.1 SURFACE PARKING AREAS	
PARKING AREA	= 18,302 S.F.
SHADE TREE AREA	= 9,165 S.F.
9,165 / 18,302	= 50.1% >= 50% THEREFORE OK
CGBC SECTION 5.106.12.2 LANDSCAPE AREAS	
LANDSCAPE AREA	= 28,533 S.F.
SHADE AREA	= 13,806 S.F.
13,806 / 28,533	= 48.4% >= 20% THEREFORE OK
CGBC SECTION 5.106.12.3 HARDSCAPE AREAS	
HARDSCAPE AREA	= N/A

SHADE CALCULATION

	LANDSCAPE AREA		BUILDING - EXISTING
	SPORTS FIELDS		PARKING AREA
	ASPHALT - EXISTING		ASPHALT - NEW
	TREE CANOPY OVER PARKING AREA		
	TREE CANOPY OVER LANDSCAPE AREAS		
	TREE CANOPY OVER HARDSCAPE AREA		

- TREE CANOPY NOTES:**
- TREES SHOWN ON AS-1.2 ARE SIZES AT INITIAL PLANTING - SHADE CANOPY SHOWN ON THIS SHEET SHOWS SIZE PROJECTED AFTER 15 YEARS
 - CANOPY ON THIS SHEET IS MEASURED AT NOON ON THE SUMMER SOLSTICE

SHADE LEGEND

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RIPON ELEMENTARY SCHOOL:
STAFF PARKING LOT
509 WEST MAIN STREET
RIPON, CA 95366
RIPON UNIFIED SCHOOL DISTRICT
CALGREEN SHADE PLAN

Project Number	2529
Date	MARCH 2026
Drawn by	PTM
Checked by	JG

CA.1
Plot Date & Time 8/4/2026 4:01:04 PM

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
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SPECIFICATIONS

1.

ALL IMPROVEMENTS TO BE DONE SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF RIPON'S DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS AND THE LATEST EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS.
2.

BENCHMARK: FOUND U.S.C. & G.S. BRASS DISK STAMPED "US COASTAL & GEODETIC SURVEY BY 1795/1946", LOCATED ON THE SOUTHWESTERLY SIDE OF UNION PACIFIC RAILROAD IN THE NORTHEAST TOP OF HEADWALL FOR THE SOUTH SAN JOAQUIN IRRIGATION DISTRICT CANAL. ELEV.=65.87, NAVD 88
3.

THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ANY WORK PERFORMED BY THE CONTRACTOR OR OWNER BASED ON PLANS WHICH HAVE NOT BEEN SIGNED AND SEALED BY THE ENGINEER AND APPROVED BY THE CITY OR COUNTY HAVING JURISDICTION. ALL INFORMATION SHOWN ON PRELIMINARY DRAWINGS IS SUBJECT TO CORRECTION AND CHANGE, AND THE CONTRACTOR OR OWNER SHALL PERFORM ANY AND ALL WORK AT THEIR OWN RISK.
4.

ALL DISTANCES AND MEASUREMENTS ARE GIVEN AND WILL BE MADE IN A HORIZONTAL PLANE. GRADE WILL BE GIVEN FROM THE TOP OF NAILS OR STAKES, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL PRESERVE ALL POINTS AND STAKES SET FOR LINES AND GRADES OR MEASUREMENTS OF THE WORK, IN THEIR PROPER LOCATION UNTIL AUTHORIZED TO REMOVE THEM BY THE ENGINEER. ALL EXPENSES INCURRED IN REPLACING STAKES THAT HAVE BEEN REMOVED WITHOUT PROPER AUTHORITY SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.
5.

ANY MONUMENTS IN THE AREA OF WORK SHALL BE LOCATED AND REFERENCED PRIOR TO CONSTRUCTION SO MONUMENTATION IS NOT LOST AND THAT ANY EXISTING MONUMENTATION CAN BE RETAINED OR REPLACED IN THEIR ORIGINAL POSITION PURSUANT TO 8711 OF THE BUSINESS AND PROFESSIONS CODE AND SECTIONS 732.5, 1492.5 AND 1810.5 OF THE CALIFORNIA STREETS AND HIGHWAY CODE.
6.

THESE PLANS HAVE BEEN PREPARED WITH THE INTENT THAT ASSOCIATED ENGINEERING GROUP, INC. WILL PERFORM THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF ANOTHER FIRM OR AGENCY IS EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT ASSOCIATED ENGINEERING GROUP, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF ASSOCIATED ENGINEERING GROUP, INC. HAD PERFORMED THE STAKING WORK.
7.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW HIS WORK PRIOR TO THE REMOVAL OF CONSTRUCTION STAKES. IN THE EVENT THAT DISCREPANCIES ARISE BETWEEN CONSTRUCTION AND STAKING, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO FIELD REVIEW THE CONSTRUCTION STAKES. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR STAKING THAT HAS BEEN REMOVED OR DESTROYED BY THE CONTRACTOR.
8.

WHERE THE PLANS OR SPECIFICATIONS 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 MATERIALS AND WORKMANSHIP OF THE FINEST QUALITY ARE TO BE USED.
9.

THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE OF CALIFORNIA WATER RESOURCES CONTROL BOARD (SWRCB), ORDER NO. 2022-0057-DWQ, NPDES GENERAL PERMIT NO. CAS000002. THE CONTRACTOR SHALL IMPLEMENT AND MONITOR THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE SWRCB REGULATIONS.
10.

THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS PERTAINING TO THEIR OPERATIONS. THEY SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT ISSUE OF "MANUAL OF TRAFFIC CONTROLS WARNING SIGNS, LIGHTS AND DEVICES FOR USE IN PERFORMANCE OF WORK UPON HIGHWAYS" PUBLISHED BY THE STATE OF CALIFORNIA BUSINESS AND TRANSPORTATION AGENCY. THE CONTRACTOR'S ATTENTION IS ALSO CALLED TO THE REQUIREMENTS OF TITLE 8 OF THE CALIFORNIA ADMINISTRATIVE CODE, SUBCHAPTER 4, ARTICLE 6, "EXCAVATIONS, TRENCHES, EARTHWORK."
11.

THE CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
12.

THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF THE GRADING CONTRACTOR AND LANDSCAPE CONTRACTOR WITH RESPECT TO FINISH GRADING IN PLANTING AREAS. THE GRADING CONTRACTOR SHALL STOCKPILE THE APPROPRIATE YARDAGE FOR THIS USE. THE EXACT AMOUNT OF STOCKPILE SHALL BE DETERMINED BY THE LANDSCAPE CONTRACTOR, AND SHALL BE FREE OF GRASS, WEEDS OR OTHER DEBRIS. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL PLACEMENT AND GRADING IN MOUNDED AREAS. SITE STRIPPING HAS NOT BEEN CALCULATED FOR THIS PROJECT. IF STRIPPING IS PERFORMED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING SAID MATERIAL AS REQUIRED.
13.

CONTRACTOR SHALL INCLUDE IN THEIR BID ALL NECESSARY COSTS TO DISPOSE OF EXCESS EARTHWORK MATERIAL GENERATED FROM EXCAVATION TO PAVEMENT SUBGRADE AND FROM TRENCH SPOILS, ESTIMATED TO BE APPROXIMATELY 2,100 CUBIC YARDS (CONTRACTOR TO VERIFY).
14.

THE PAVING CONTRACTOR SHALL PROVIDE COMPACTION TESTS IN PAVED AREAS AS REQUIRED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE. A MINIMUM OF TWO (2) TESTS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
15.

ALL FRAME AND COVERS SHALL BE ADJUSTED TO FINISH GRADE BY THE PAVING CONTRACTOR.

16.

APPROPRIATE DUST CONTROL SHALL BE PROVIDED FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE, AT THE CONTRACTOR'S EXPENSE.
17.

ALL SUB GRADE PREPARATION AND PAVING SHALL CONFORM TO THE CITY OF RIPON'S STANDARD SPECIFICATIONS, AND SHALL BE PLACED TO THE MINIMUM THICKNESS AS SHOWN ON THE GRADING PLAN.
18.

THE CONTRACTOR SHALL LOCATE AND PRESERVE ALL EXISTING FACILITIES INCLUDING GAS, WATER, IRRIGATION, POWER, TELEPHONE, SEWER OR OTHERS WHICH MAY BE PRESENT IN THE AREA OF CONSTRUCTION. THE RESPECTIVE UTILITY COMPANIES SHALL BE NOTIFIED PRIOR TO BEGINNING WORK.
- UTILITIES

19.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF RIPON'S STANDARD SPECIFICATIONS AND THE LATEST EDITION OF THE CALIFORNIA PLUMBING CODE.
20.

THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 9, SECTION 6705, 6706, AND 6707 OF THE STATE LABOR CODE.
21.

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A DETAILED PLAN SHOWING THE DESIGN OF SHORING, BRACING, SLOPING, OR OTHER PROVISIONS TO BE MADE FOR WORKER PROTECTION FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF FIVE FEET OR MORE. IF THE PLAN VARIES FROM THE SHORING SYSTEM STANDARDS, THE PLANS SHALL BE PREPARED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER.
22.

ALL UTILITY LINE TRENCHES SHALL BE BACKFILLED AND RECOMPACTED IN ACCORDANCE WITH THE CITY OF RIPON STANDARD SPECIFICATIONS.
23.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION WITH UTILITY COMPANIES FOR THE REMOVAL OR RELOCATION OF UTILITY COMPANY FACILITIES AS REQUIRED TO COMPLETE THE IMPROVEMENTS AS SHOWN ON THE PLANS.
- STORM DRAIN

24.

P.V.C. PIPE AS SHOWN ON THE PLANS SHALL BE POLYVINYL CHLORIDE PIPE CONFORMING TO ASTM D-3034, SDR 35, WITH RUBBER SEALING RINGS MEETING ASTM D-3212 "JOINTS FOR DRAINS AND SEWER PIPES USING FLEXIBLE ELASTOMERIC SEALS" OR AN APPROVED EQUAL.
25.

WHERE THE PLANS SHOW P.V.C. STORM DRAINS, THE CONTRACTOR MAY USE HIGH DENSITY POLYETHYLENE PIPE MEETING AASHTO DESIGNATION M 294M-98.
26.

C.M.P. AS SHOWN ON THE PLANS SHALL BE CORRUGATED METAL PIPE, ALUMINIZED TYPE II (AL72) CORRUGATED STEEL PIPE MATERIAL CONFORMING TO THE REQUIREMENTS OF AASHTO M274 OR ASTM A924 AND MANUFACTURER IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M36 AND A760. JOINTING SHALL CONFORM TO AASHTO M36 AND A760.
27.

PERFORATED C.M.P. SHALL BE PERFORATED BY THE MANUFACTURER WITH PATTERNS THAT MEET CLASS 2 REQUIREMENTS OF AASHTO M244 OR AASTO MP7, LATEST EDITION.
28.

WHERE THE PLANS SHOW C.M.P. STORM DRAINS, THE CONTRACTOR MAY USE HIGH DENSITY POLYETHYLENE PIPE CONFORMING TO THE REQUIREMENTS OF SECTION 64 OF THE CALTRANS SPECIFICATIONS. H.D.P.E. PIPE SHALL BE BELL AND SPIGOT ONLY WITH POLYISOPRENE RUBBER GASKET JOINTS MEETING OR EXCEEDING ASTM F-4177 REQUIREMENTS.
29.

WHEN HORIZONTAL DRAINS ARE INSTALLED ON SCHOOL PROPERTY, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE HORIZONTAL DRAINS WILL BE CONSTRUCTED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL BE SELECTED AND PAID FOR BY THE DISTRICT. HORIZONTAL DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, AND SHALL BE CONSTRUCTED TO THE MINIMUM SIZE AS SHOWN ON THE DETAILS. WHEN CONSTRUCTING THE HORIZONTAL DRAINS, THE GEOTECHNICAL ENGINEER SHALL VERIFY THAT THE BOTTOM OF THE HORIZONTAL DRAIN EXTENDS INTO SUITABLE MATERIAL FOR PERCOLATION. THE CONTRACTOR, AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER, MAY BE REQUIRED TO LOWER THE BOTTOM OF THE HORIZONTAL DRAIN DUE TO ACTUAL FIELD CONDITIONS.
- CONCRETE PAVEMENT

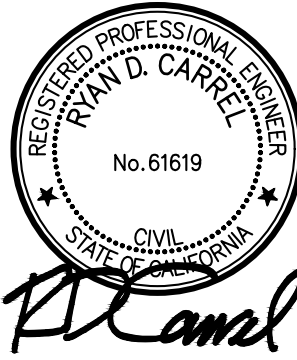
30.

CONCRETE: PORTLAND CEMENT CONCRETE PAVING SHALL CONFORM TO MINOR CONCRETE AS DEFINED IN THE STATE OF CALIFORNIA 2022 DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, SECTION 40-2, WITH A 28 DAY COMPRESSIVE STRENGTH OF 3,000 POUNDS PER SQUARE INCH AS A MINIMUM AND A MAXIMUM SLUMP OF 4 INCHES. CONCRETE SHALL CONSIST OF A MINIMUM OF 5.5 SACK MIX OF PORTLAND CEMENT, WATER, AND AGGREGATE. PORTLAND CEMENT SHALL BE TYPE II. AGGREGATES SHALL BE WASHED BEFORE USE AND BE FREE FROM ANY FOREIGN MATTER.
31.

THE AGGREGATES SHALL BE GRADED TO PROVIDE A PLASTIC, WORKABLE MIXTURE OF MAXIMUM DENSITY WITH A MAXIMUM SIZE AGGREGATE OF 3/4 INCHES. THE WATER SHALL BE POTABLE AND NO ADMIXTURES SHALL BE USED WITHOUT APPROVAL OF THE ENGINEER. THE CEMENT, WATER AND AGGREGATES SHALL BE COMBINED AT THE BATCH PLANT AND BE THOROUGHLY MIXED. NO WATER SHALL BE ADDED TO THE MIXTURE AFTER LEAVING THE BATCH PLANT WITHOUT APPROVAL OF THE ENGINEER. ALL CONCRETE SHALL BE PLACED WITHIN 90 MINUTES AFTER THE INTRODUCTION OF WATER TO THE CEMENT. THE TEMPERATURE OF THE CONCRETE SHALL NOT BE LESS THAN 50 DEGREES FAHRENHEIT AND NOT MORE THAN 90 DEGREES FAHRENHEIT.
32.

THE CONCRETE SHALL BE CONSOLIDATED BY VIBRATING. CONCRETE WHICH HAS ROCK POCKETS OR HONEY COMBING AFTER CURING SHALL BE REMOVED AND REPLACED.
33.

ALL CONCRETE SHALL BE CURED IN ACCORDANCE WITH SECTION 90 OF THE STATE OF CALIFORNIA STANDARDS AND VEHICULAR TRAFFIC SHOULD NOT BE ALLOWED FOR 3 DAYS (AUTOMOBILE TRAFFIC) OR 7 DAYS (TRUCK TRAFFIC).



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architects

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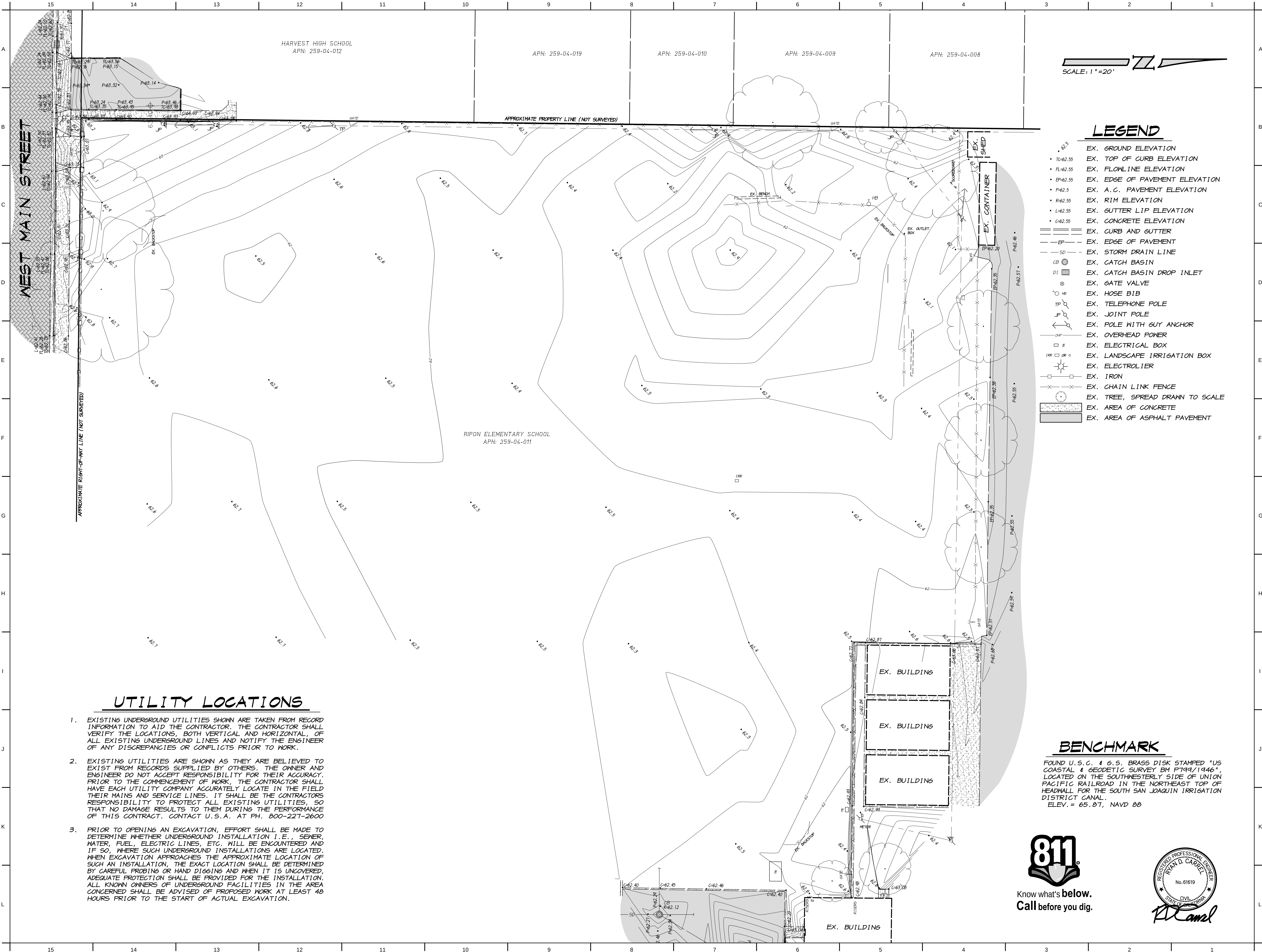
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RIPON ELEMENTARY PARKING LOT

509 WEST MAIN STREET
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RIPON UNIFIED SCHOOL DISTRICT
CIVIL SPECIFICATIONS

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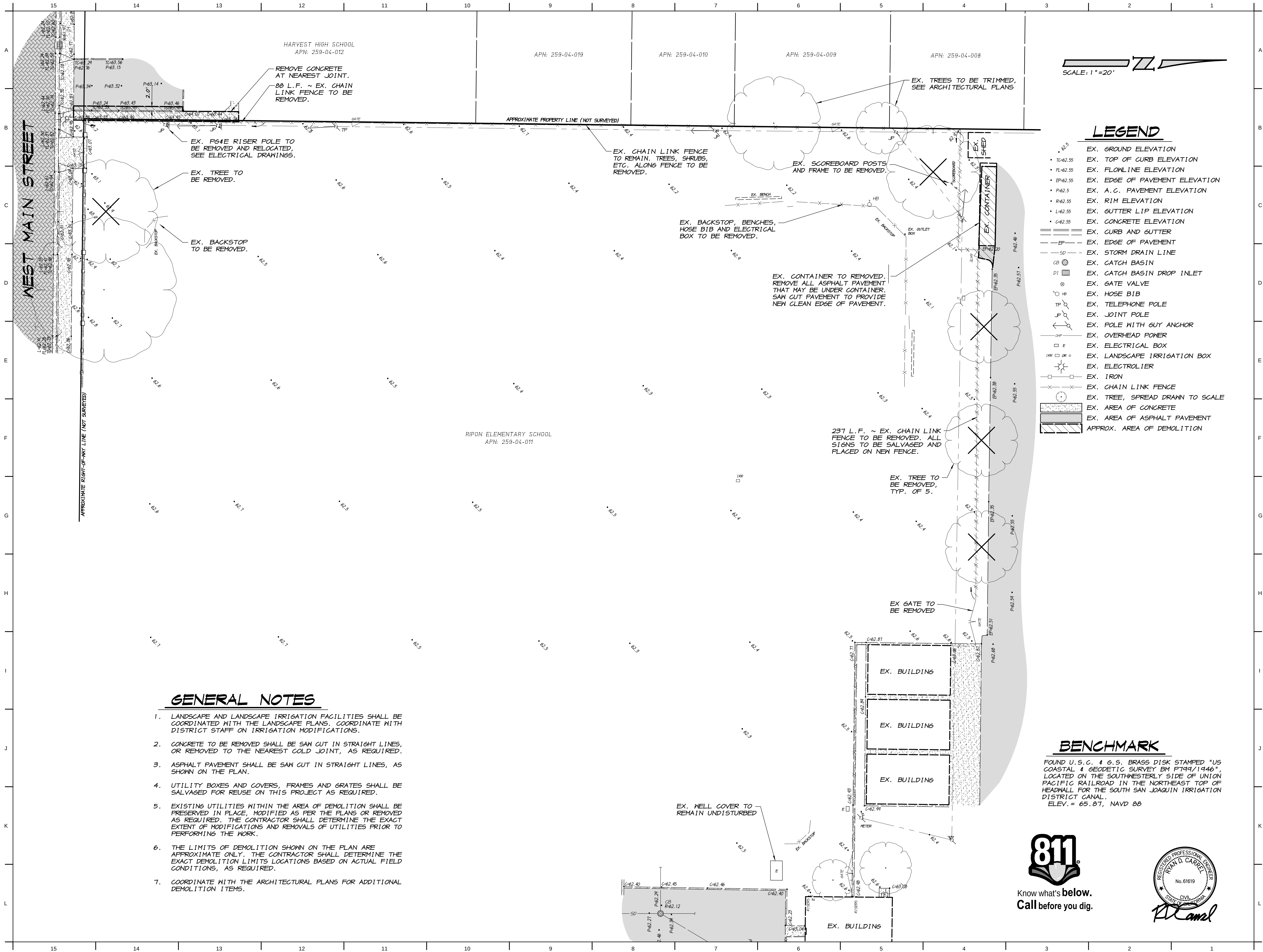
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DEMOLITION PLAN

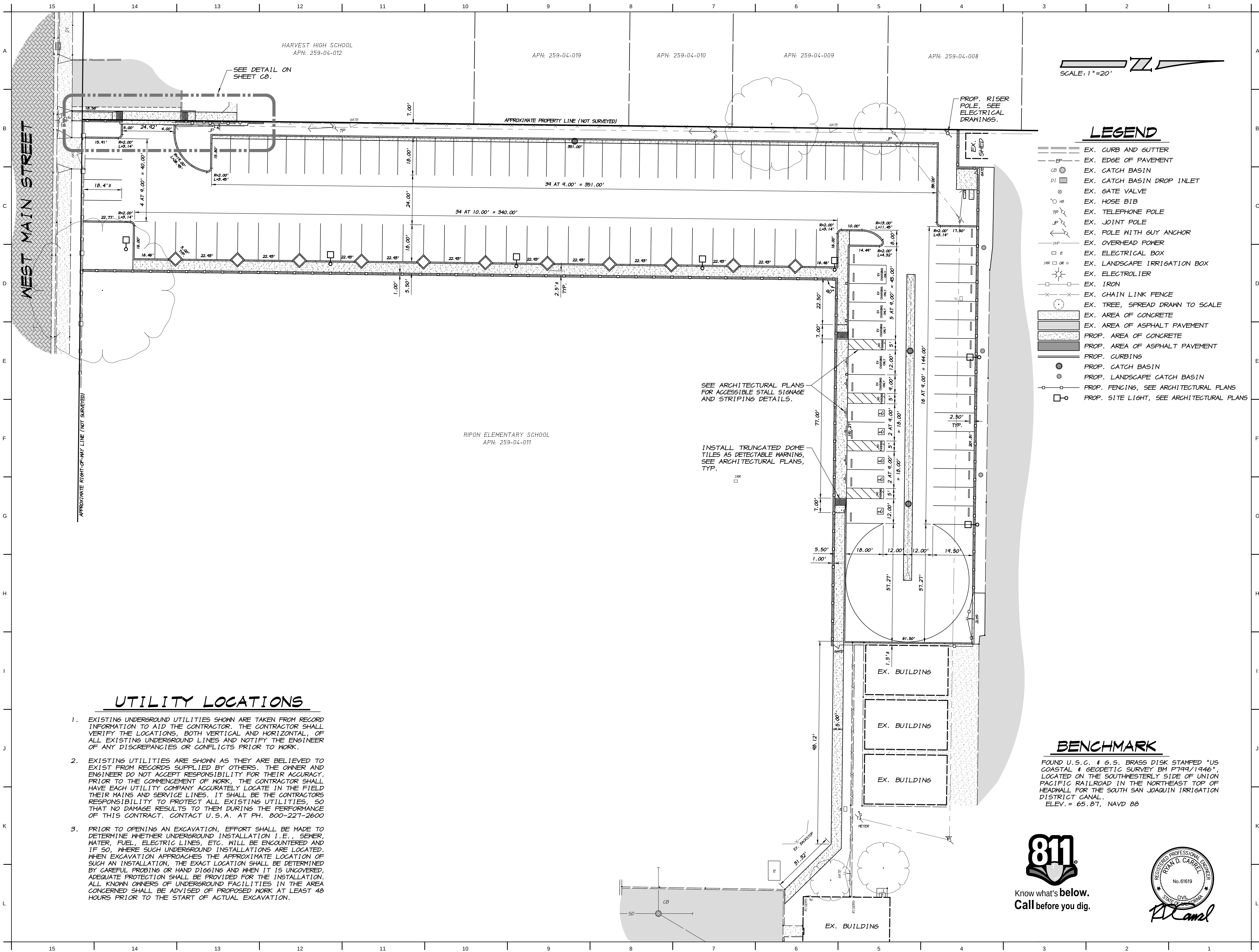
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HORIZONTAL CONTROL PLAN

Project Number 2529
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C4

Plot Date & Time

UTILITY LOCATIONS

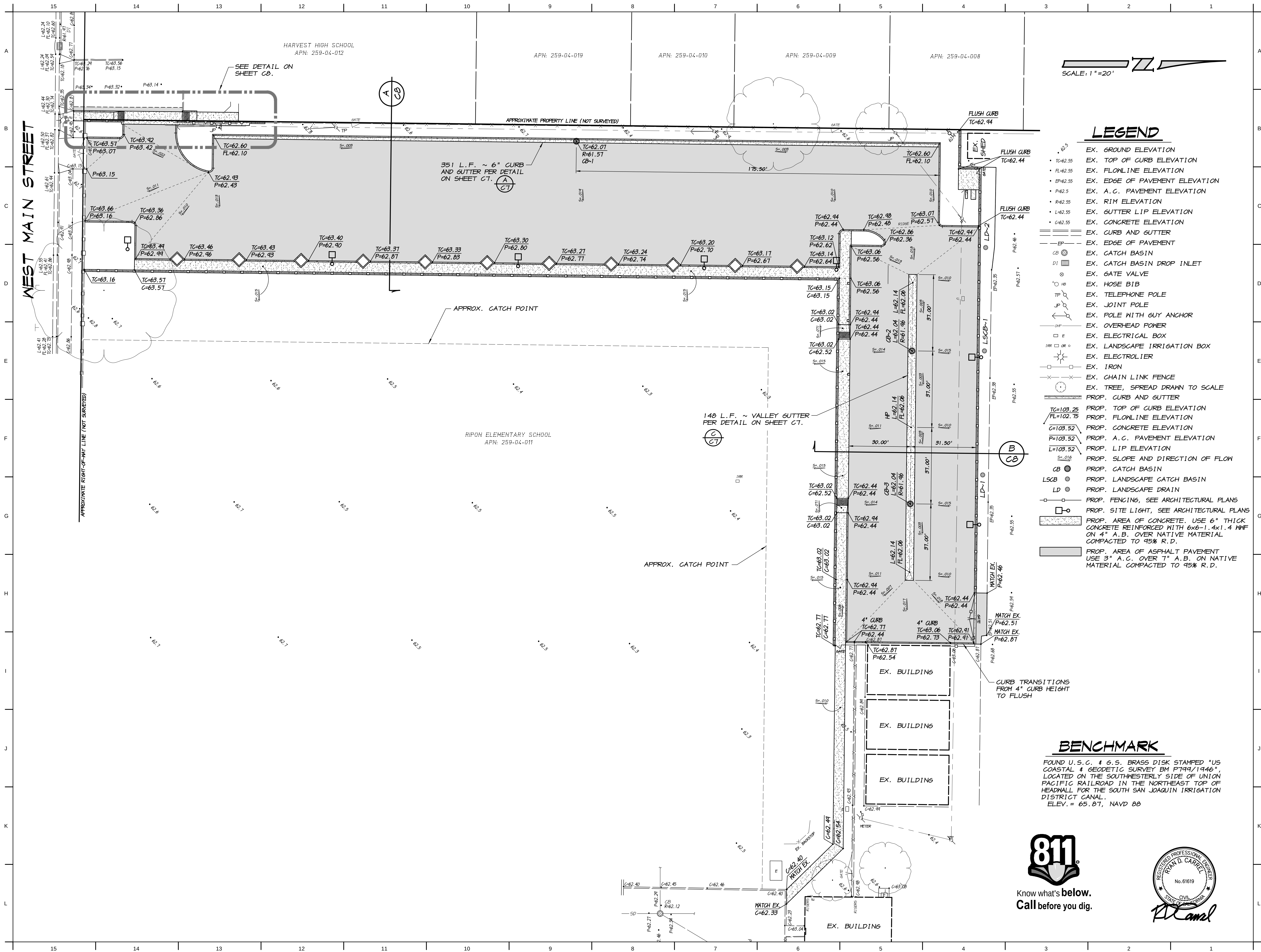
- EXISTING UNDERGROUND UTILITIES SHOWN ARE TAKEN FROM RECORD INFORMATION TO AID THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, BOTH VERTICAL AND HORIZONTAL, OF ALL EXISTING UNDERGROUND LINES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO WORK.
- EXISTING UTILITIES ARE SHOWN AS THEY ARE BELIEVED TO EXIST FROM RECORDS SUPPLIED BY OTHERS. THE OWNER AND ENGINEER DO NOT ACCEPT RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL HAVE EACH UTILITY COMPANY ACCURATELY LOCATE IN THE FIELD THEIR MAINS AND SERVICE LINES. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES, SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. CONTACT U.S.A. AT PH. 800-227-2600
- PRIOR TO OPENING AN EXCAVATION, EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATION I.E., SEWER, WATER, FUEL, ELECTRIC LINES, ETC. WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING AND WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION.

BENCHMARK

FOUND U.S.C. & G.S. BRASS DISK STAMPED "US COASTAL & GEODETIC SURVEY BM P799/1946", LOCATED ON THE SOUTHWESTERLY SIDE OF UNION PACIFIC RAILROAD IN THE NORTHEAST TOP OF HEADWALL FOR THE SOUTH SAN JOAQUIN IRRIGATION DISTRICT CANAL.
ELEV. = 65.87, NAVD 88

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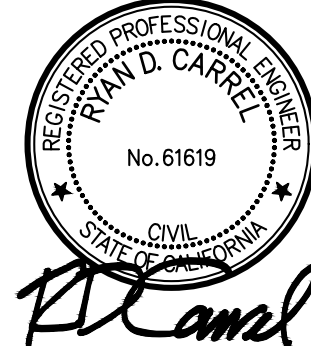
- EX. GROUND ELEVATION
- EX. TOP OF CURB ELEVATION
- EX. FLOWLINE ELEVATION
- EX. EDGE OF PAVEMENT ELEVATION
- EX. A.C. PAVEMENT ELEVATION
- EX. RIM ELEVATION
- EX. GUTTER LIP ELEVATION
- EX. CONCRETE ELEVATION
- EX. CURB AND GUTTER
- EX. EDGE OF PAVEMENT
- EX. CATCH BASIN
- EX. CATCH BASIN DROP INLET
- EX. GATE VALVE
- EX. HOSE BIB
- EX. TELEPHONE POLE
- EX. JOINT POLE
- EX. POLE WITH GUY ANCHOR
- EX. OVERHEAD POWER
- EX. ELECTRICAL BOX
- EX. LANDSCAPE IRRIGATION BOX
- EX. ELECTROLIER
- EX. IRON
- EX. CHAIN LINK FENCE
- EX. TREE, SPREAD DRAWN TO SCALE
- PROP. CURB AND GUTTER
- PROP. TOP OF CURB ELEVATION
- PROP. FLOWLINE ELEVATION
- PROP. CONCRETE ELEVATION
- PROP. A.C. PAVEMENT ELEVATION
- PROP. LIP ELEVATION
- PROP. SLOPE AND DIRECTION OF FLOW
- PROP. CATCH BASIN
- PROP. LANDSCAPE CATCH BASIN
- PROP. LANDSCAPE DRAIN
- PROP. FENCING, SEE ARCHITECTURAL PLANS
- PROP. SITE LIGHT, SEE ARCHITECTURAL PLANS
- PROP. AREA OF CONCRETE, USE 6" THICK CONCRETE REINFORCED WITH 6x6-1.4x1.4 WWF ON 4" A.B. OVER NATIVE MATERIAL COMPACTED TO 95% R.D.
- PROP. AREA OF ASPHALT PAVEMENT USE 3" A.C. OVER 7" A.B. ON NATIVE MATERIAL COMPACTED TO 95% R.D.

BENCHMARK

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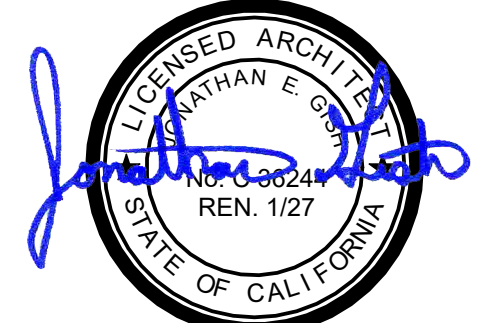
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REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/31/26



TIMOTHY P. HUFF &
ASSOCIATES, INC.
Jonathan E. Gish, AIA Architect
519 McHenry Ave., Modesto, CA 95354
Ph: (209) 571-2232 Fax: (209) 571-1936



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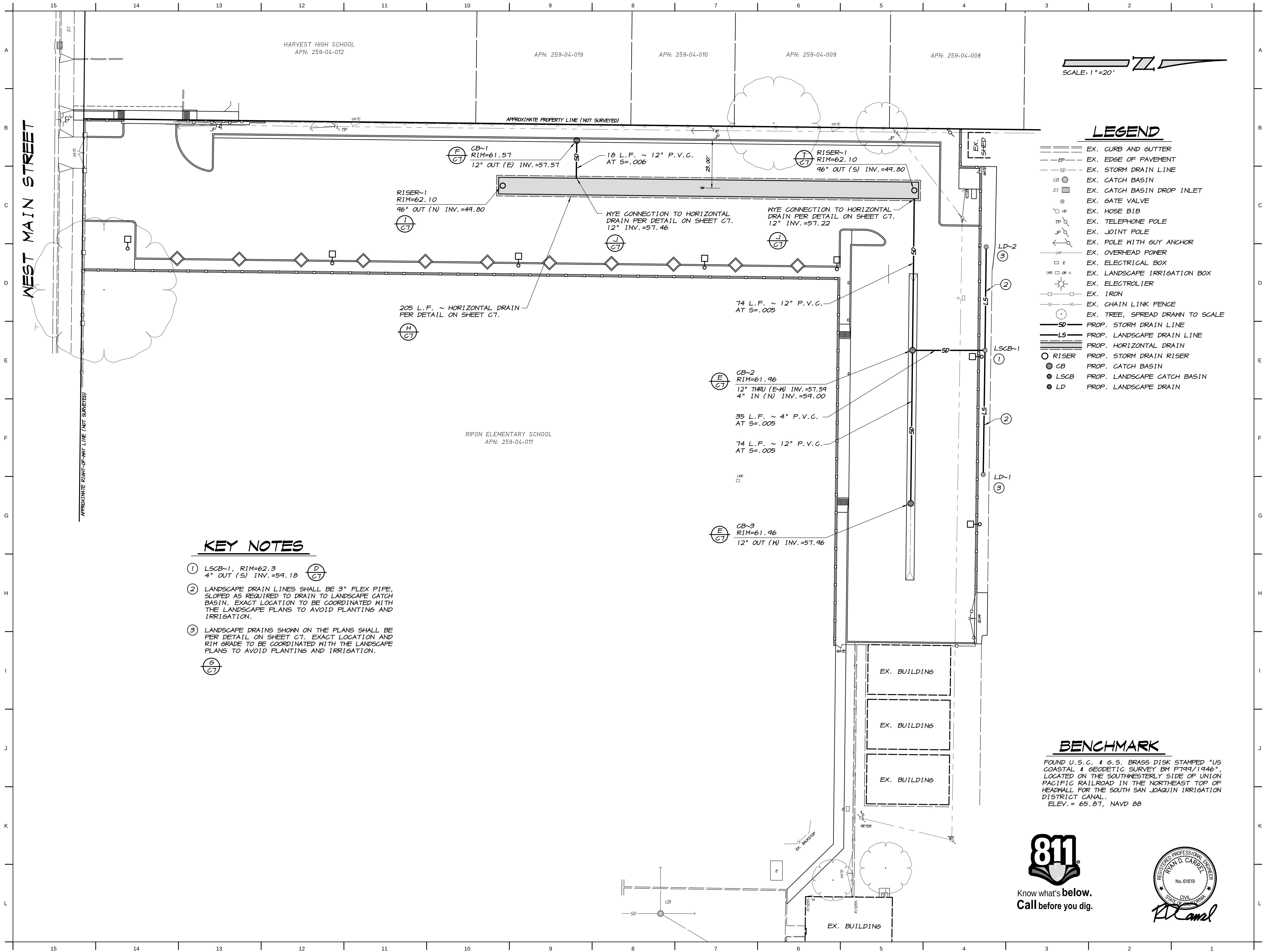
RIPON ELEMENTARY PARKING LOT

Project Number	2529
Date	MARCH 2026
Drawn by	JTS
Checked by	RDC
Plot Date & Time	

C5

GRADING AND DRAINAGE PLAN

509 WEST MAIN STREET
RIPON, CA 95366
RIPON UNIFIED SCHOOL DISTRICT



SCALE: 1"=20'

LEGEND

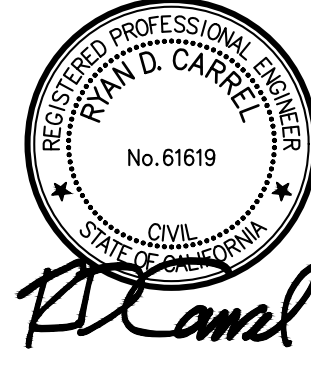
- EX. CURB AND GUTTER
- EX. EDGE OF PAVEMENT
- EX. STORM DRAIN LINE
- EX. CATCH BASIN
- EX. CATCH BASIN DROP INLET
- EX. GATE VALVE
- EX. HOSE BIB
- EX. TELEPHONE POLE
- EX. JOINT POLE
- EX. POLE WITH GUY ANCHOR
- EX. OVERHEAD POWER
- EX. ELECTRICAL BOX
- EX. LANDSCAPE IRRIGATION BOX
- EX. ELECTROLIER
- EX. IRON
- EX. CHAIN LINK FENCE
- EX. TREE, SPREAD DRAWN TO SCALE
- PROP. STORM DRAIN LINE
- PROP. LANDSCAPE DRAIN LINE
- PROP. HORIZONTAL DRAIN
- PROP. STORM DRAIN RISER
- PROP. CATCH BASIN
- PROP. LANDSCAPE CATCH BASIN
- PROP. LANDSCAPE DRAIN

BENCHMARK

FOUND U.S.C. & G.S. BRASS DISK STAMPED "US COASTAL & GEODETIC SURVEY BM P799/1946", LOCATED ON THE SOUTHWESTERLY SIDE OF UNION PACIFIC RAILROAD IN THE NORTHEAST TOP OF HEADWALL FOR THE SOUTH SAN JOAQUIN IRRIGATION DISTRICT CANAL. ELEV. = 65.87, NAVD 88



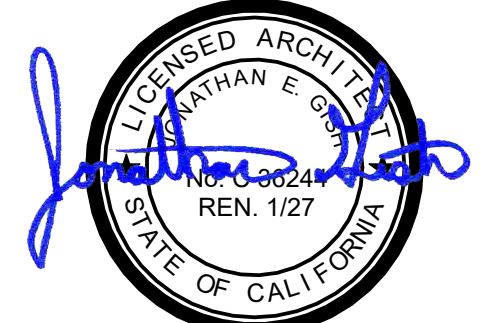
Know what's below.
Call before you dig.



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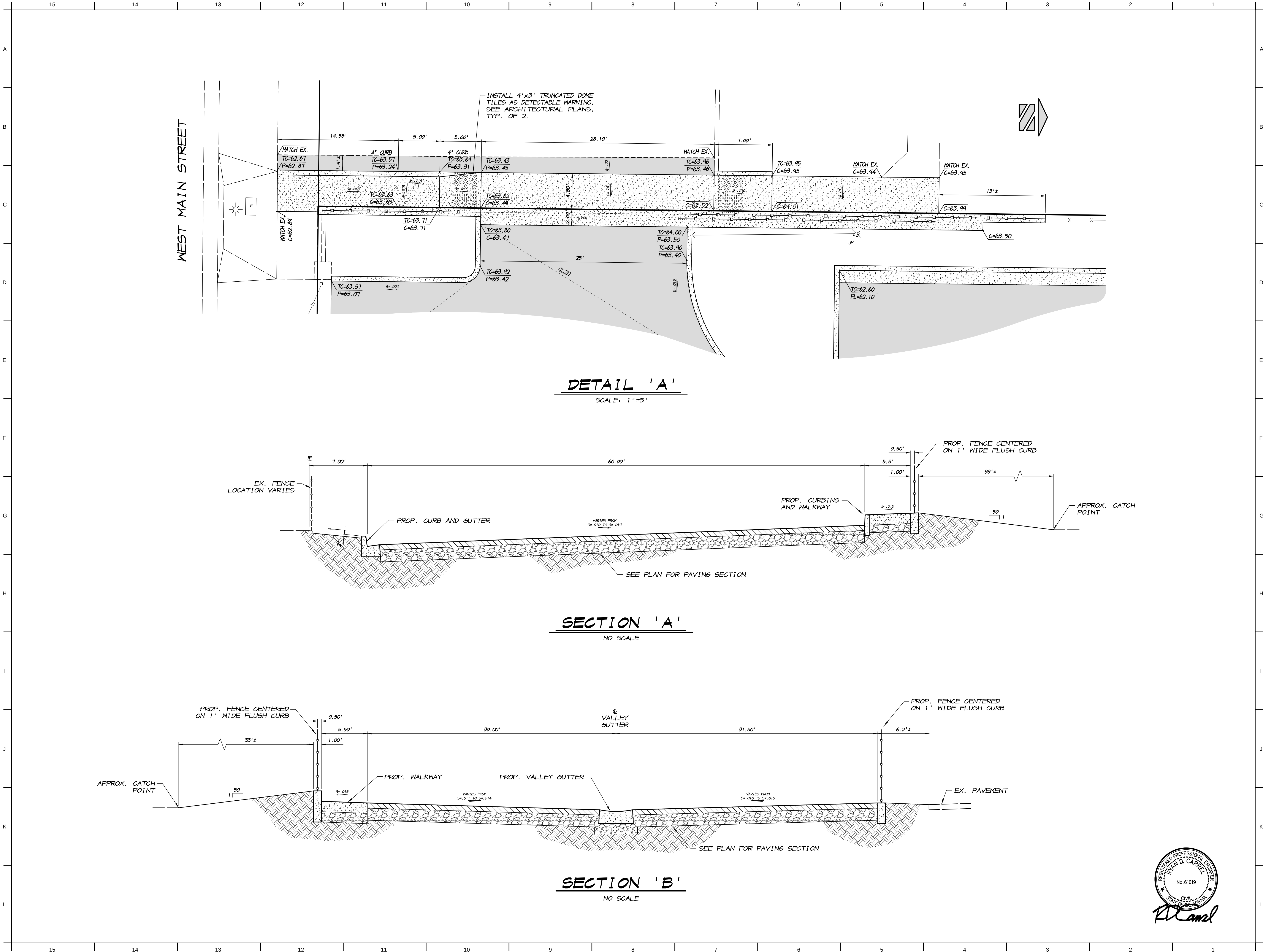
4206 TECHNOLOGY DRIVE, SUITE 4, MODESTO, CA 95356
PHONE (209) 545-3390 FAX: (209) 545-3875 www.assoceng.com

RIPON ELEMENTARY PARKING LOT

509 WEST MAIN STREET
RIPON, CA 95366
RIPON UNIFIED SCHOOL DISTRICT
UTILITY PLAN

Project Number	2529
Date	MARCH 2026
Drawn by	JTS
Checked by	RDC
Plot Date & Time	

C6



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DATE: 08/31/26

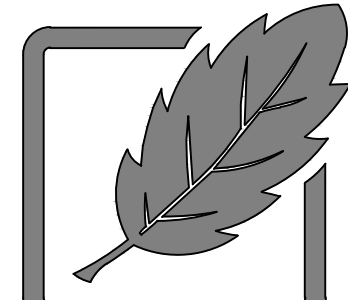
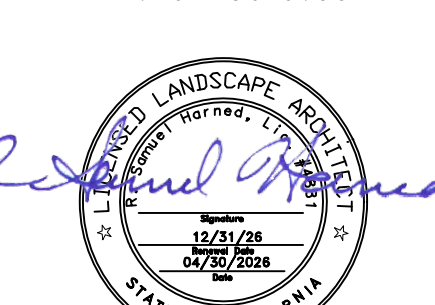
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Ph: (209) 571-2232 Fax: (209) 571-1936

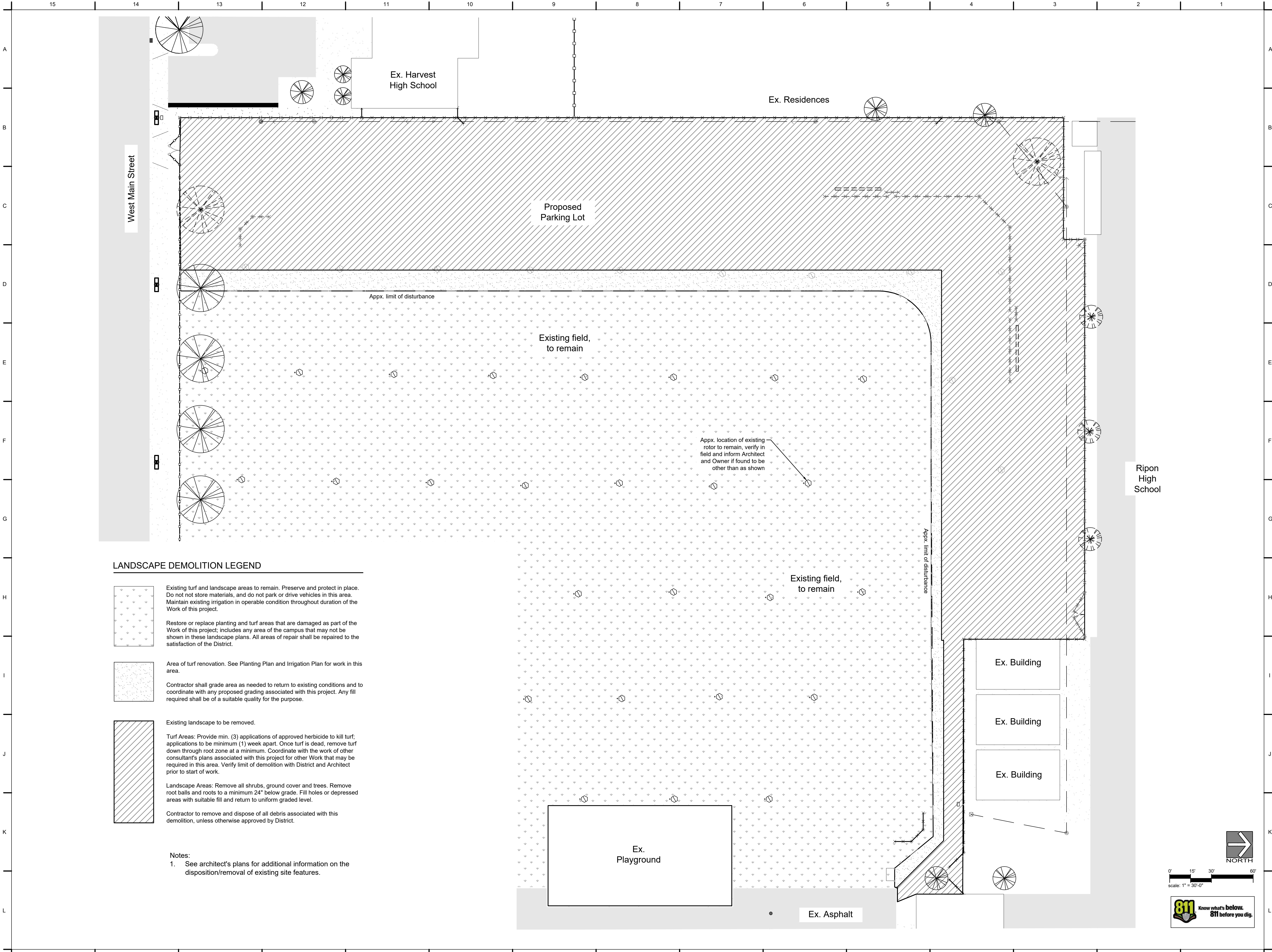
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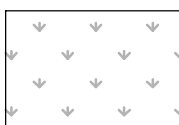
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PHONE (209) 545-3390 FAX (209) 545-3875 www.assoceng.com

RIPON ELEMENTARY PARKING LOT
509 WEST MAIN STREET
RIPON, CA 95366
RIPON UNIFIED SCHOOL DISTRICT
GRADING DETAILS AND SECTIONS
Project Number 2529
Date MARCH 2026
Drawn by JTS
Checked by RDC
C8
Plot Date & Time

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APP#: 02-124175 INC:	
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 TIMOTHY P. HUFF & ASSOCIATES, INC. Jonathan E. Gish, AIA Architect 519 McHenry Ave., Modesto, CA 95354 Ph: (209) 571-2232 Fax: (209) 571-1936	
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 Sam Harned Landscape Architecture P.O. Box 2275 Oakdale, CA 95361 209 • 380 • 7376 www.harnedia.com	
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RIPON ELEMENTARY SCHOOL: STAFF PARKING LOT	LANDSCAPE SCHEDULES AND NOTES
509 WEST MAIN STREET RIPON, CA 95366 RIPON UNIFIED SCHOOL DISTRICT	
Project Number	2529 (SHLA 26-09)
Date	MAY 2026
Drawn by	RSH
Checked by	RSH
L 0.1	



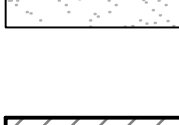
LANDSCAPE DEMOLITION LEGEND

- 

Existing turf and landscape areas to remain. Preserve and protect in place. Do not store materials, and do not park or drive vehicles in this area. Maintain existing irrigation in operable condition throughout duration of the Work of this project.
- 

Restore or replace planting and turf areas that are damaged as part of the Work of this project; includes any area of the campus that may not be shown in these landscape plans. All areas of repair shall be repaired to the satisfaction of the District.
- 

Area of turf renovation. See Planting Plan and Irrigation Plan for work in this area.

Contractor shall grade area as needed to return to existing conditions and to coordinate with any proposed grading associated with this project. Any fill required shall be of a suitable quality for the purpose.
- 

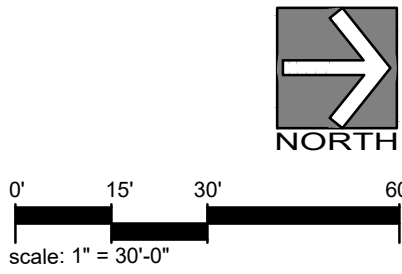
Existing landscape to be removed.

Turf Areas: Provide min. (3) applications of approved herbicide to kill turf; applications to be minimum (1) week apart. Once turf is dead, remove turf down through root zone at a minimum. Coordinate with the work of other consultant's plans associated with this project for other Work that may be required in this area. Verify limit of demolition with District and Architect prior to start of work.

Landscape Areas: Remove all shrubs, ground cover and trees. Remove root balls and roots to a minimum 24" below grade. Fill holes or depressed areas with suitable fill and return to uniform graded level.

Contractor to remove and dispose of all debris associated with this demolition, unless otherwise approved by District.

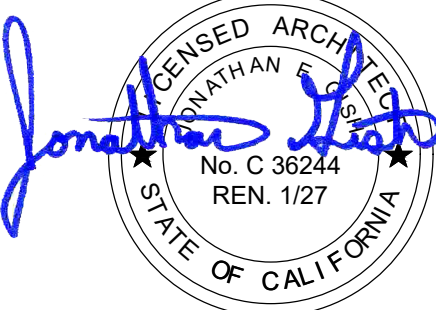
Notes:
1. See architect's plans for additional information on the disposition/removal of existing site features.



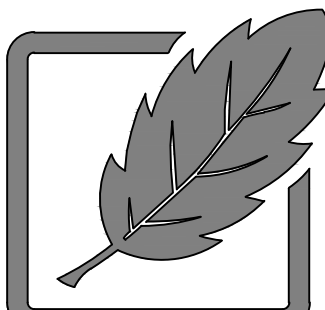
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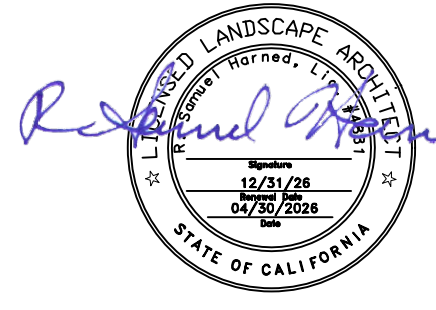
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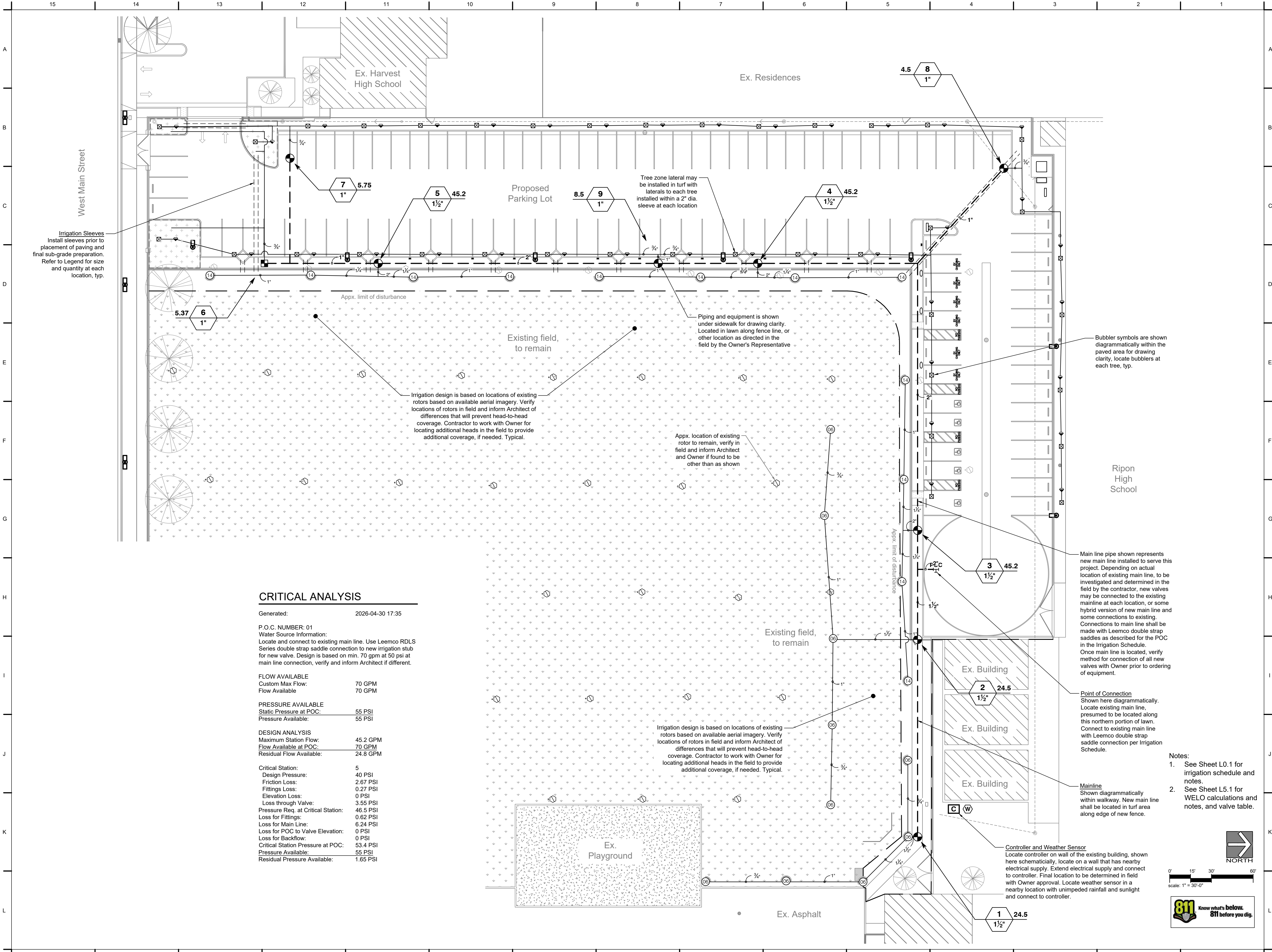


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RIPON ELEMENTARY SCHOOL:
STAFF PARKING LOT
509 WEST MAIN STREET
RIPON, CA 95366
RIPON UNIFIED SCHOOL DISTRICT
IRRIGATION AND LANDSCAPE DEMOLITION PLAN

Project Number	2529 (SHLA 26-09)
Date	MAY 2026
Drawn by	RSH
Checked by	RSH

L 1.1



CRITICAL ANALYSIS

Generated: 2026-04-30 17:35

P.O.C. NUMBER: 01
Water Source Information:
Locate and connect to existing main line. Use Leemco RDLS Series double strap saddle connection to new irrigation stub for new valve. Design is based on min. 70 gpm at 50 psi at main line connection, verify and inform Architect if different.

FLOW AVAILABLE
Custom Max Flow: 70 GPM
Flow Available: 70 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 55 PSI
Pressure Available: 55 PSI

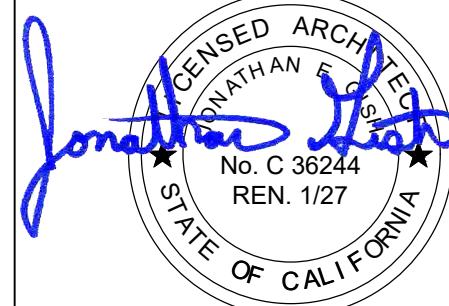
DESIGN ANALYSIS
Maximum Station Flow: 45.2 GPM
Flow Available at POC: 70 GPM
Residual Flow Available: 24.8 GPM

Critical Station: 5
Design Pressure: 40 PSI
Friction Loss: 2.67 PSI
Fittings Loss: 0.27 PSI
Elevation Loss: 0 PSI
Loss through Valve: 3.55 PSI
Pressure Req. at Critical Station: 46.5 PSI
Loss for Fittings: 0.62 PSI
Loss for Main Line: 6.24 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 0 PSI
Critical Station Pressure at POC: 53.4 PSI
Pressure Available: 55 PSI
Residual Pressure Available: 1.65 PSI

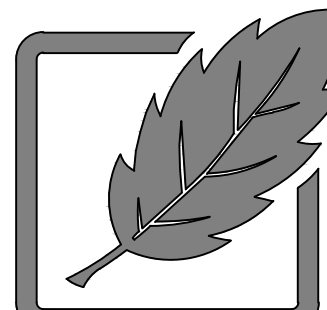
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RIPON ELEMENTARY SCHOOL:
STAFF PARKING LOT

509 WEST MAIN STREET
RIPON, CA 95366
RIPON UNIFIED SCHOOL DISTRICT
IRRIGATION PLAN

Project Number 2529 (SHLA 26-09)

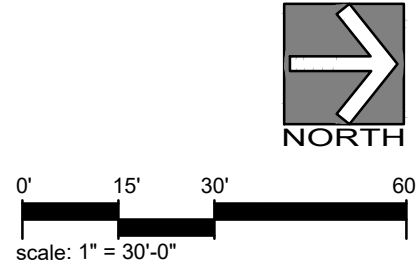
Date MAY 2026

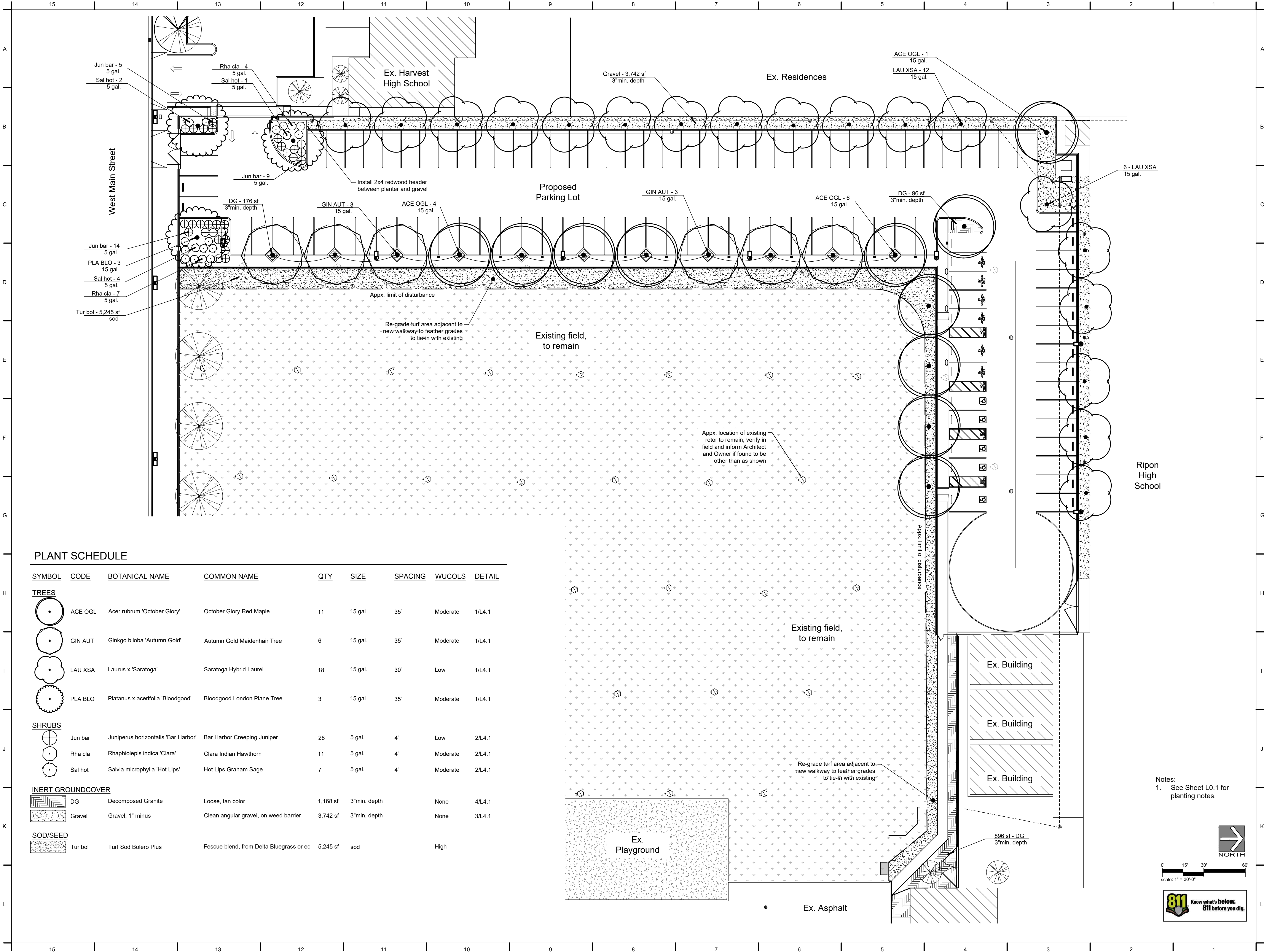
Drawn by RSH

Checked by RSH

L 1.2

- Notes:
- See Sheet L0.1 for irrigation schedule and notes.
 - See Sheet L5.1 for WELO calculations and notes, and valve table.

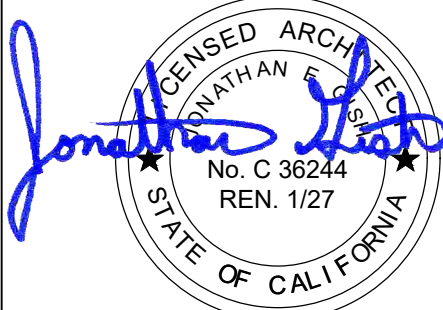




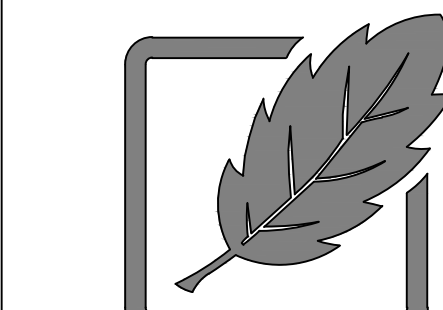
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DATE: 08/31/26



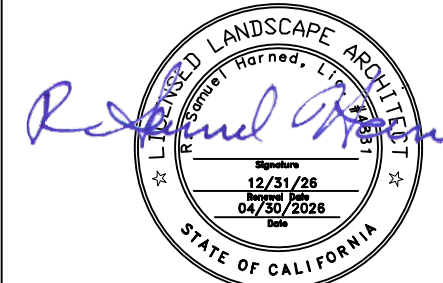
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RIPON ELEMENTARY SCHOOL:
STAFF PARKING LOT

509 WEST MAIN STREET
RIPON, CA 95366
RIPON UNIFIED SCHOOL DISTRICT

PLANTING PLAN

Project Number	2529 (SHLA 26-09)
Date	MAY 2026
Drawn by	RSH
Checked by	RSH

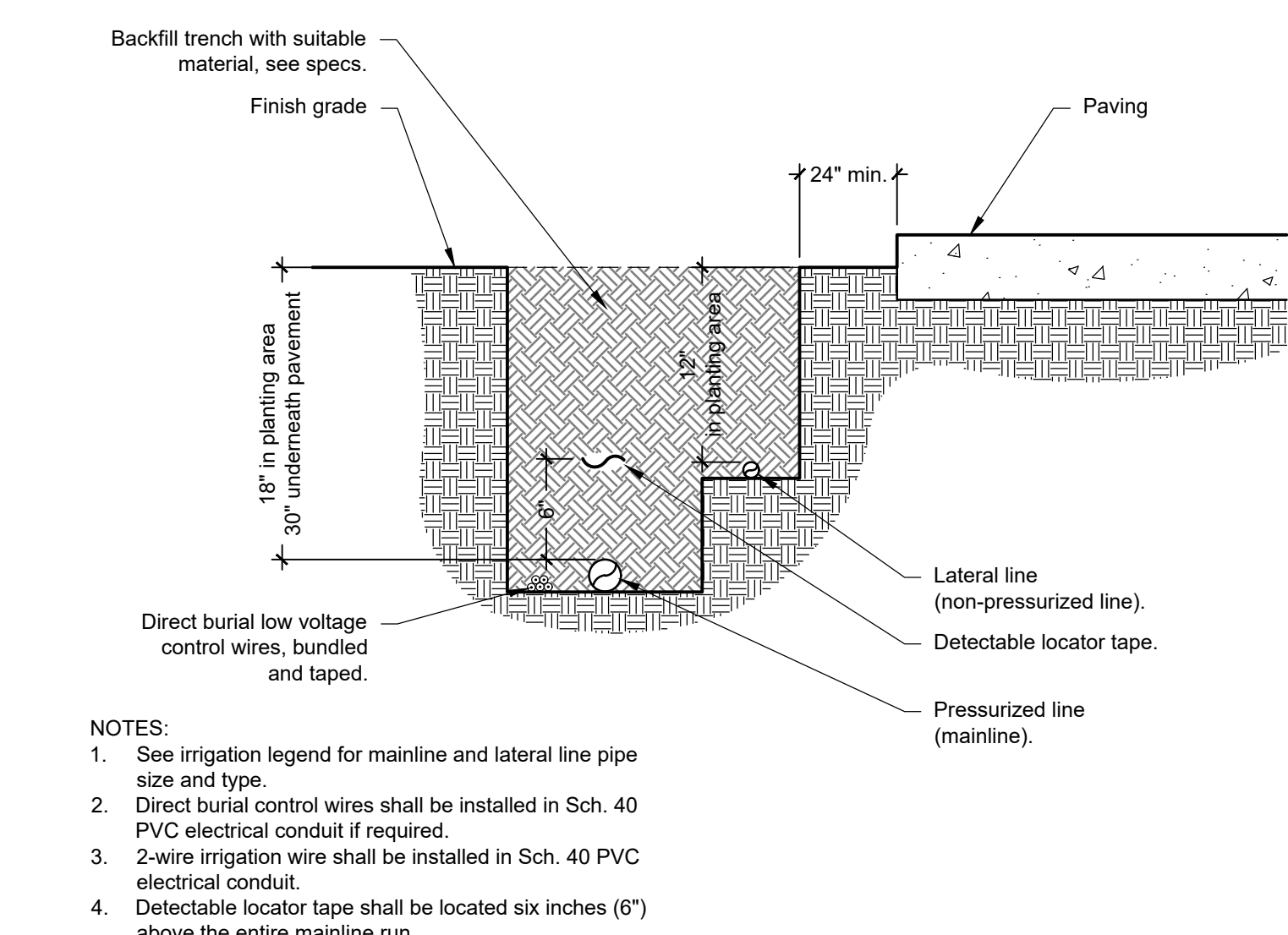
L 2.1

7

BUBBLER ON FLEX HOSE

NTS

32 8401.01-18

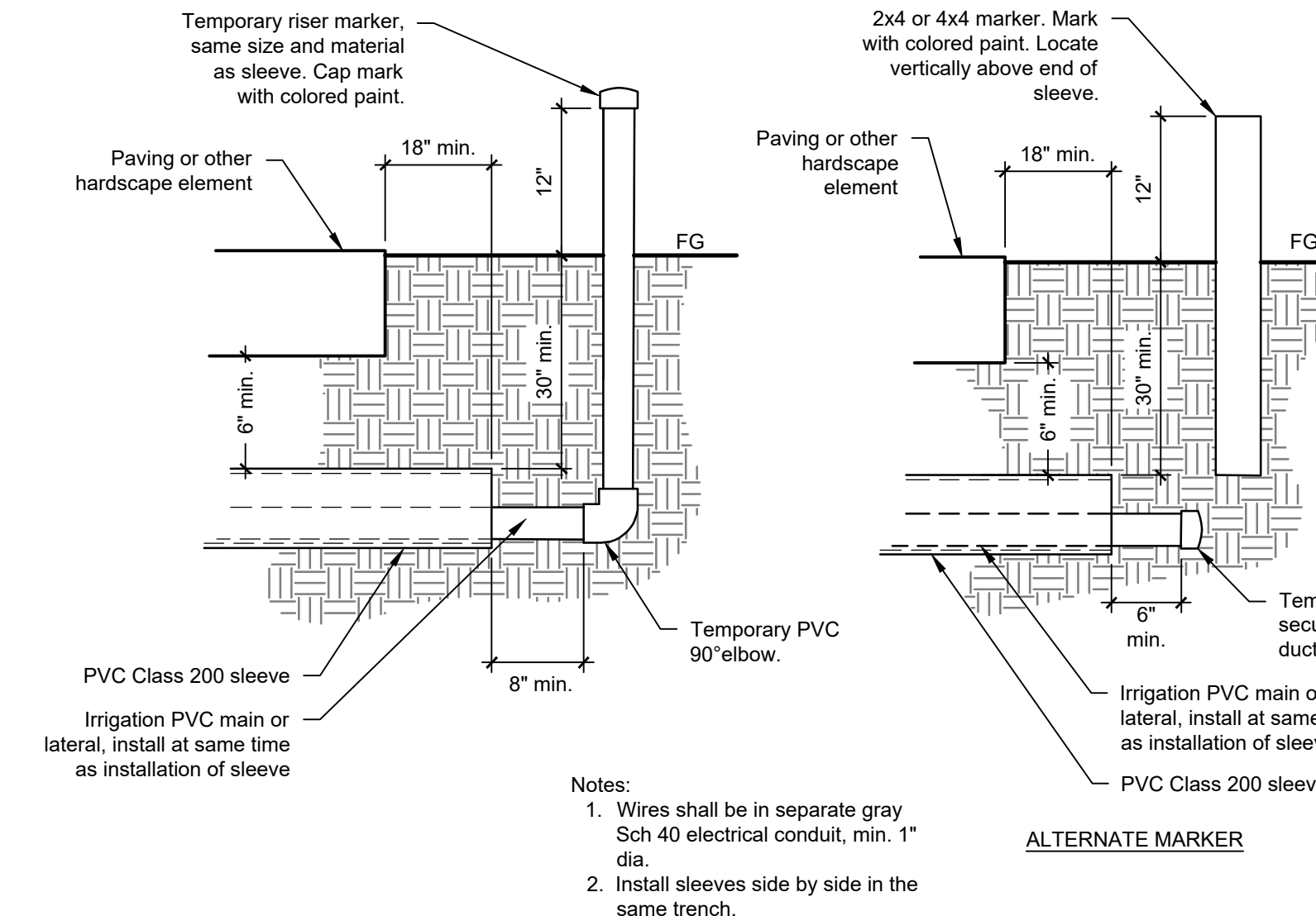


8

TRENCHING

NTS

32 8401.04-29



9

IRRIGATION SLEEVE

NTS

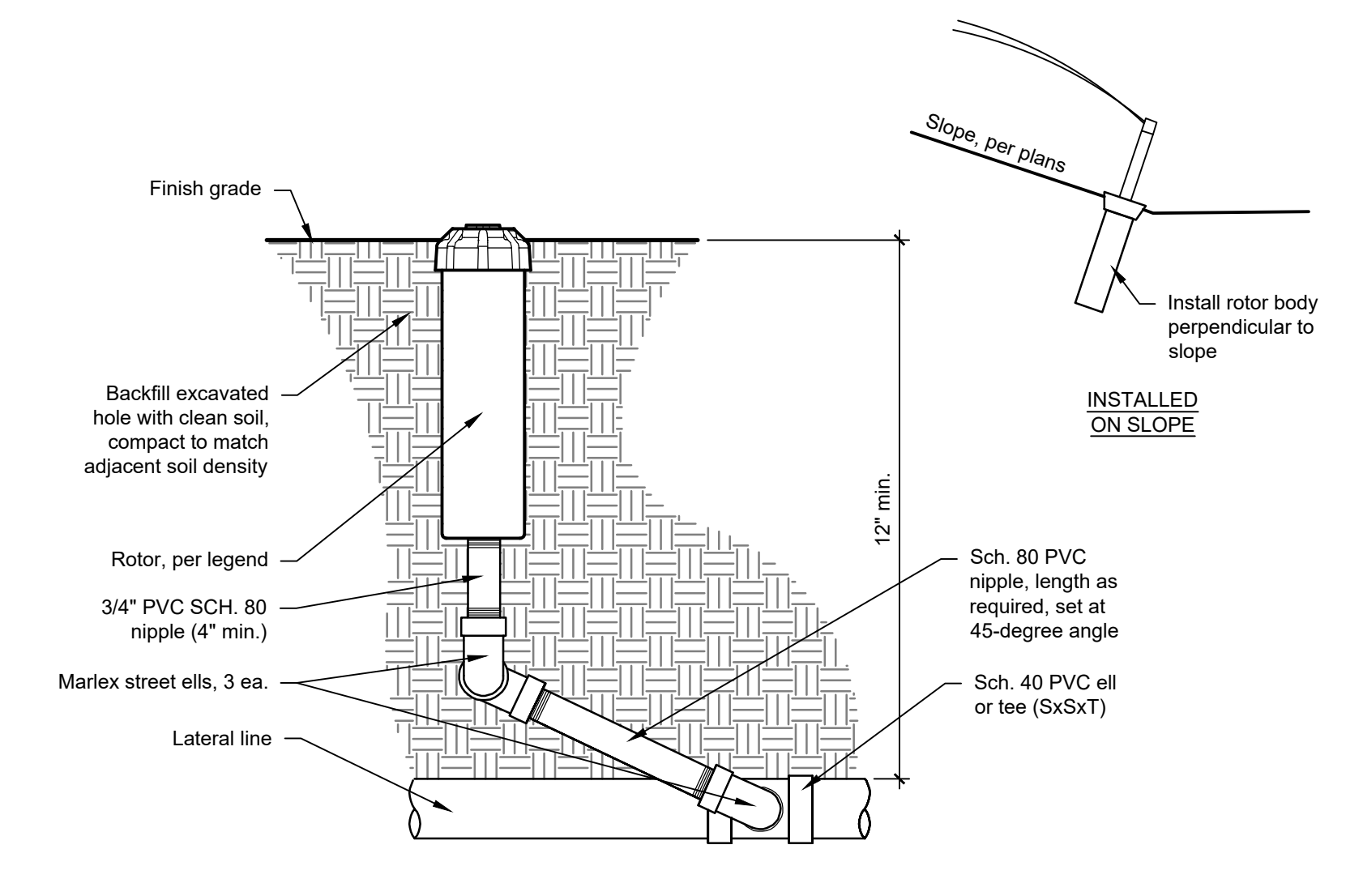
32 8401.04-26

4

DRIP ZONE REMOTE CONTROL VALVE

1 1/2" = 1'-0"

32 8401.01-14

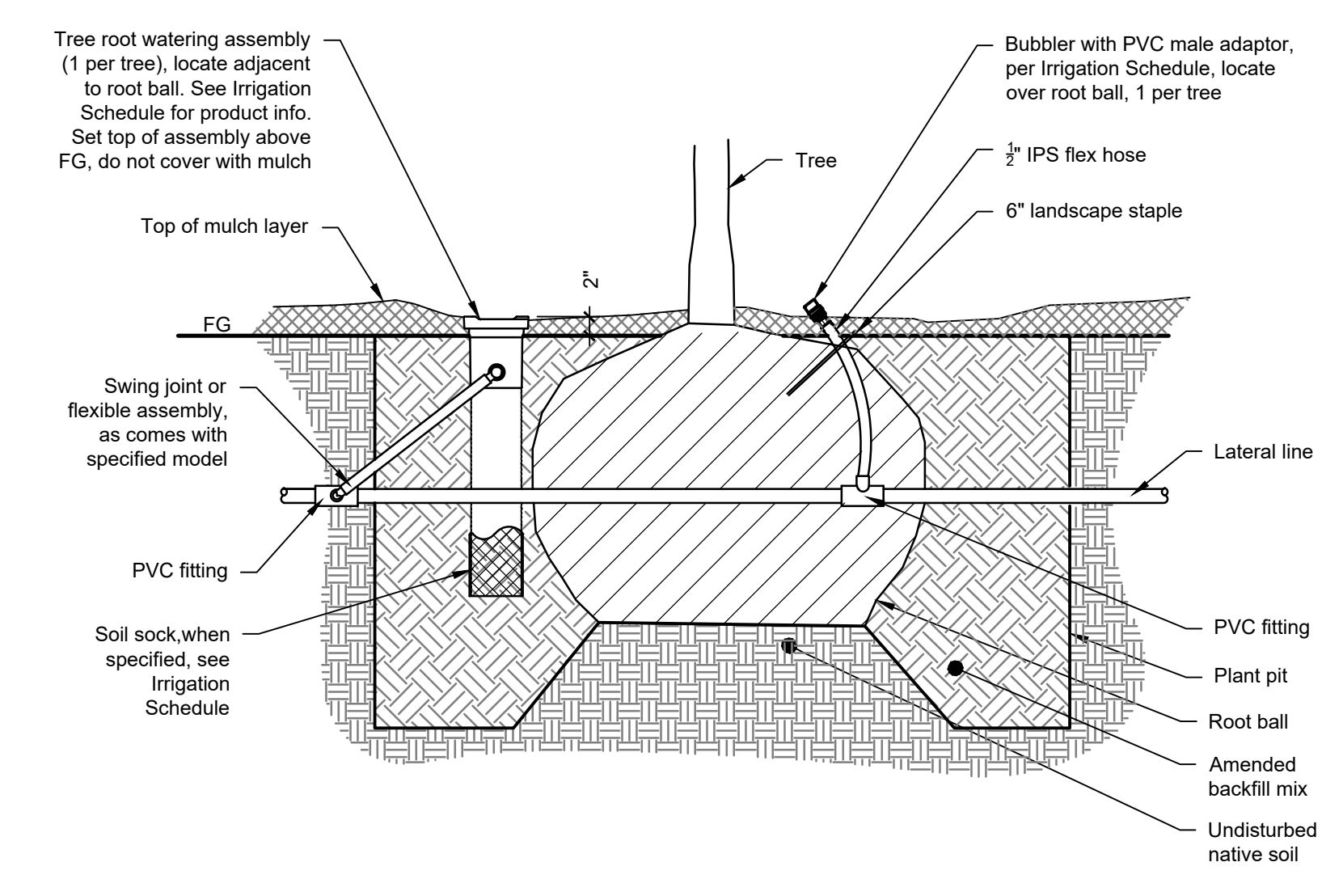


5

GEAR ROTOR

NTS

32 8401-15



6

TREE ROOT WATERING SYSTEM WITH ADDED BUBBLER

NTS

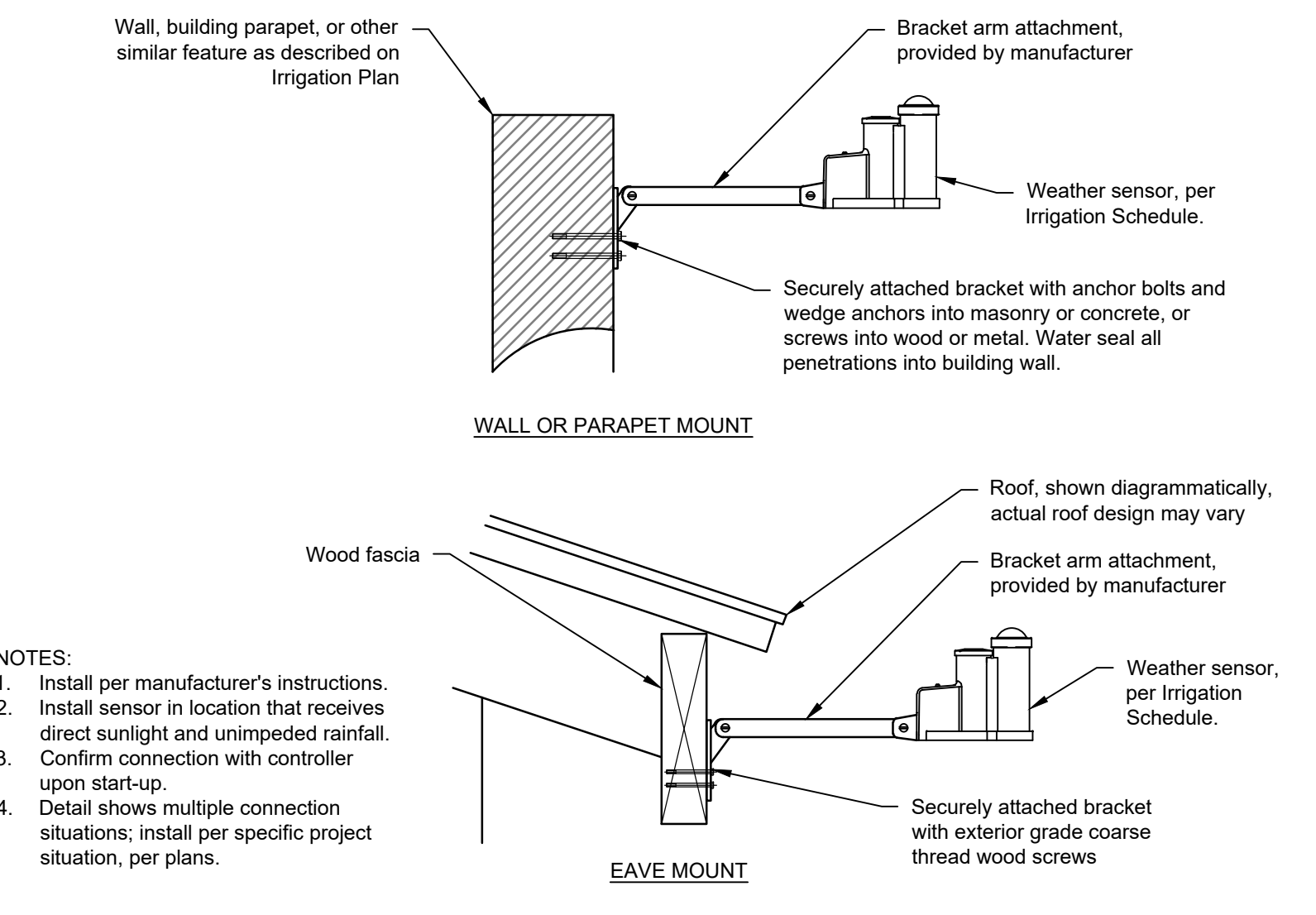
32 8401-18

1

CONTROLLER - WALL MOUNT

NTS

32 8401.02-02

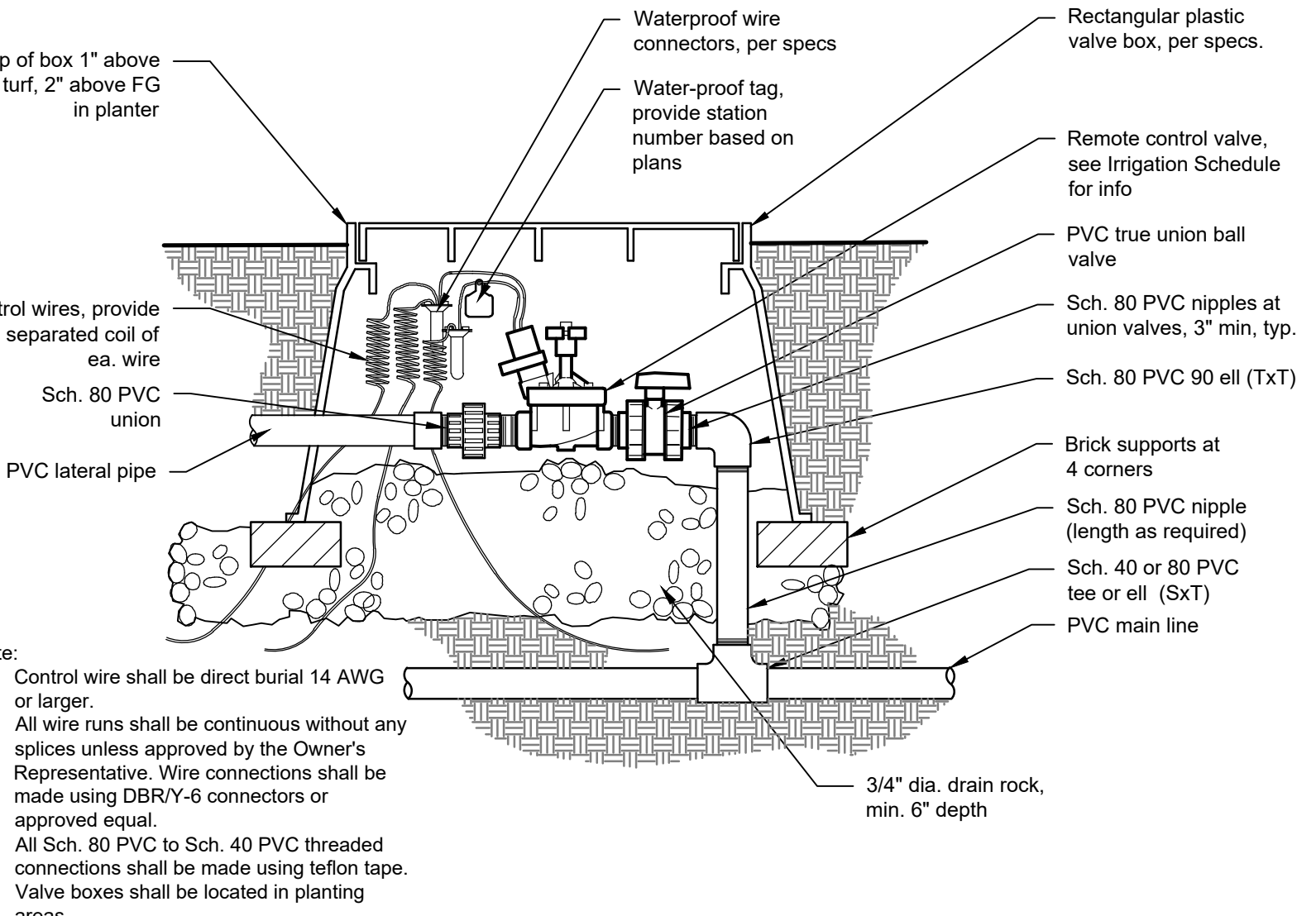


2

WEATHER SENSOR - WALL OR ROOF MOUNT

NTS

32 8401.02-05

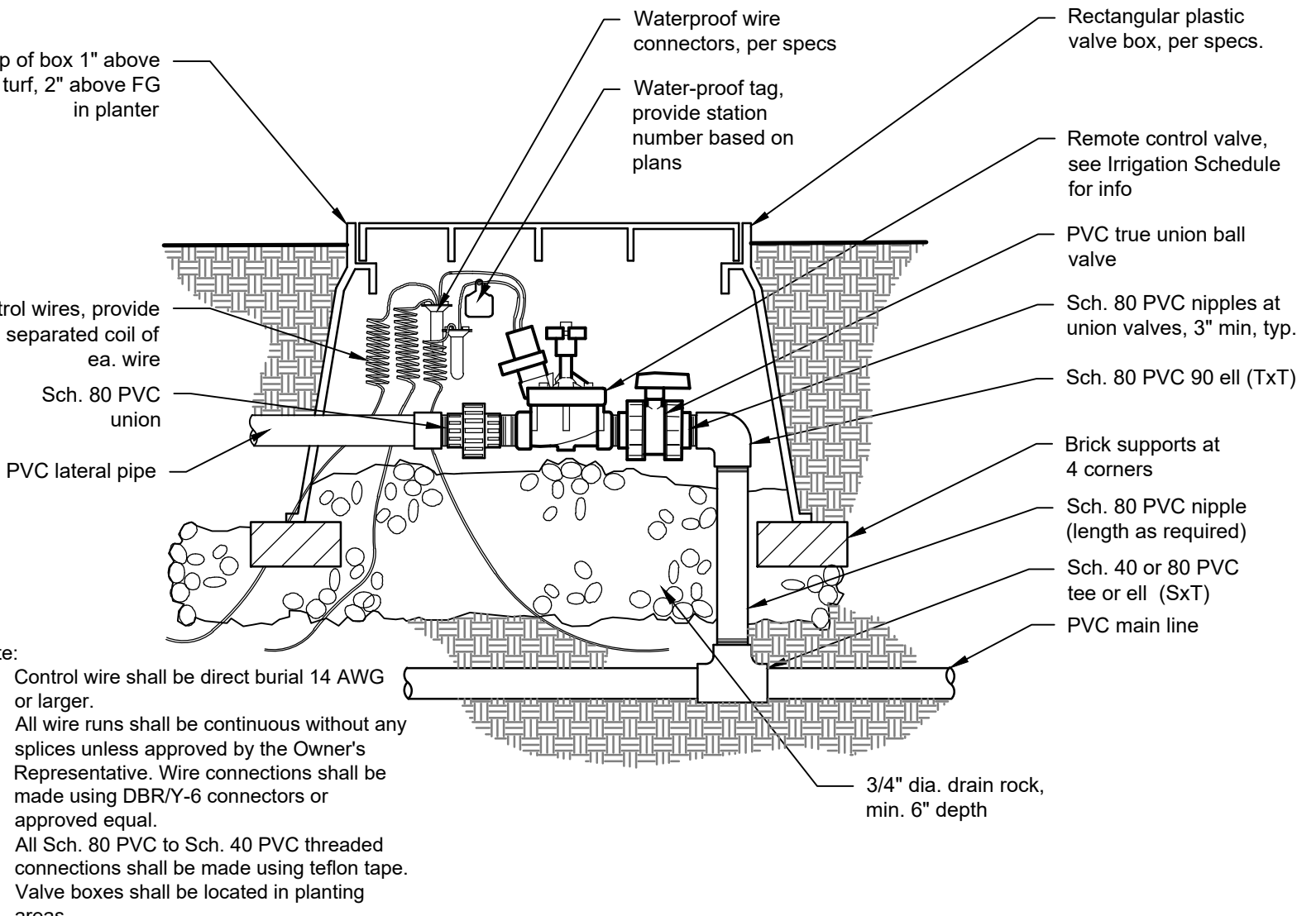


3

REMOTE CONTROL VALVE

NTS

32 8401.03-12



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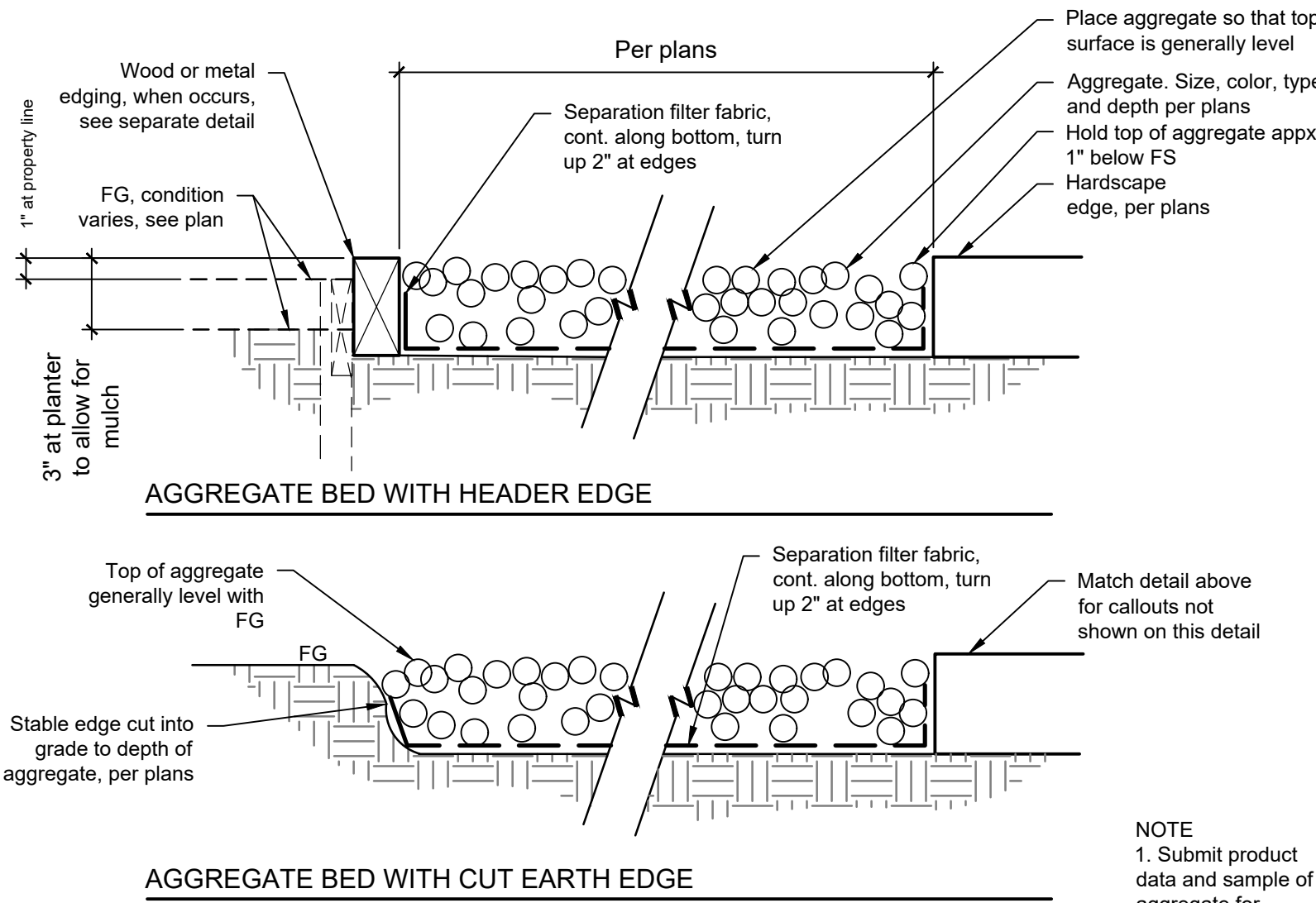
RIPON ELEMENTARY SCHOOL:
STAFF PARKING LOT

509 WEST MAIN STREET
RIPON, CA 95366
RIPON UNIFIED SCHOOL DISTRICT

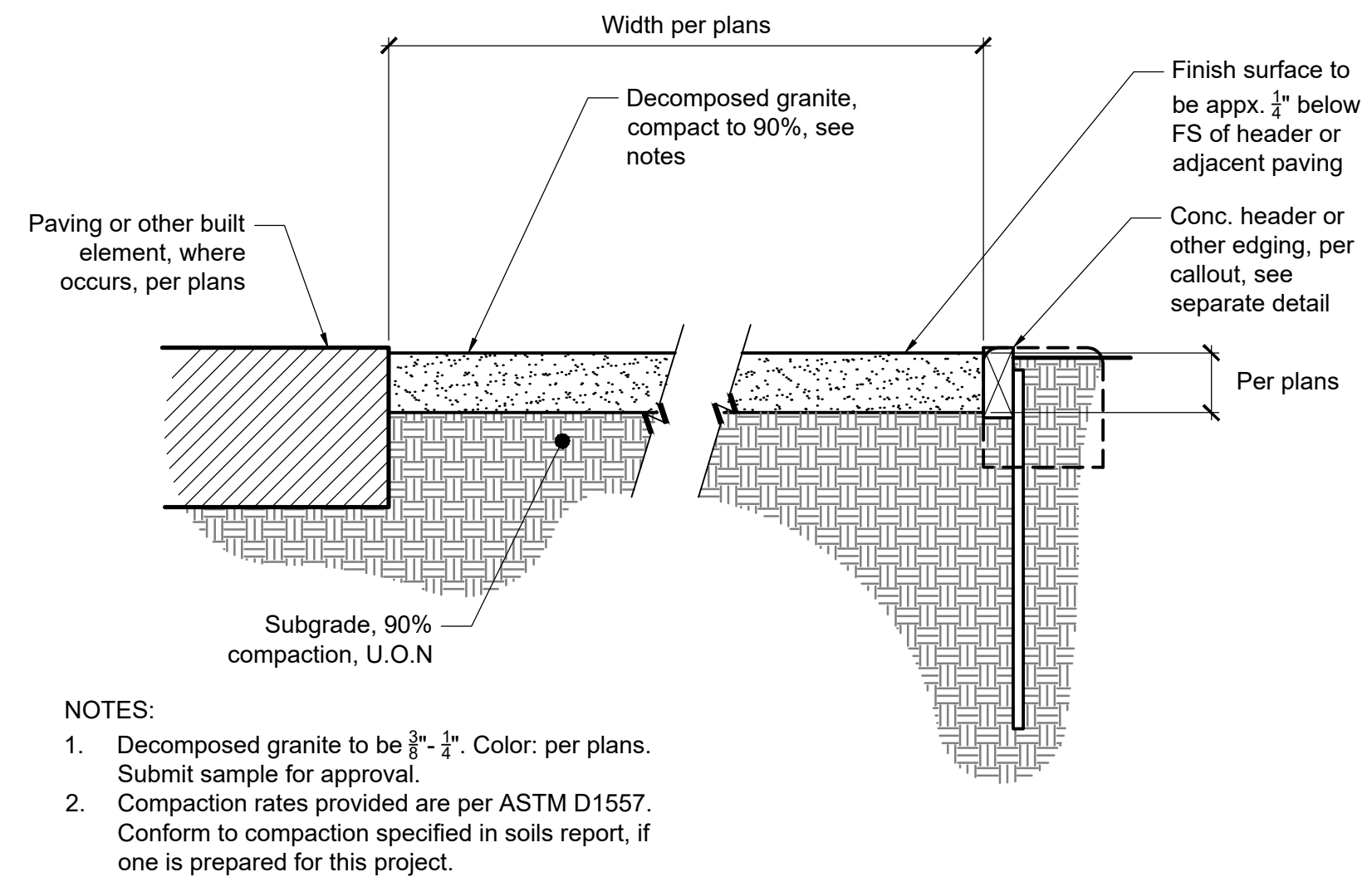
IRRIGATION DETAILS

Project Number 2529 (SHLA 26-09)
Date MAY 2026
Drawn by RSH
Checked by RSH

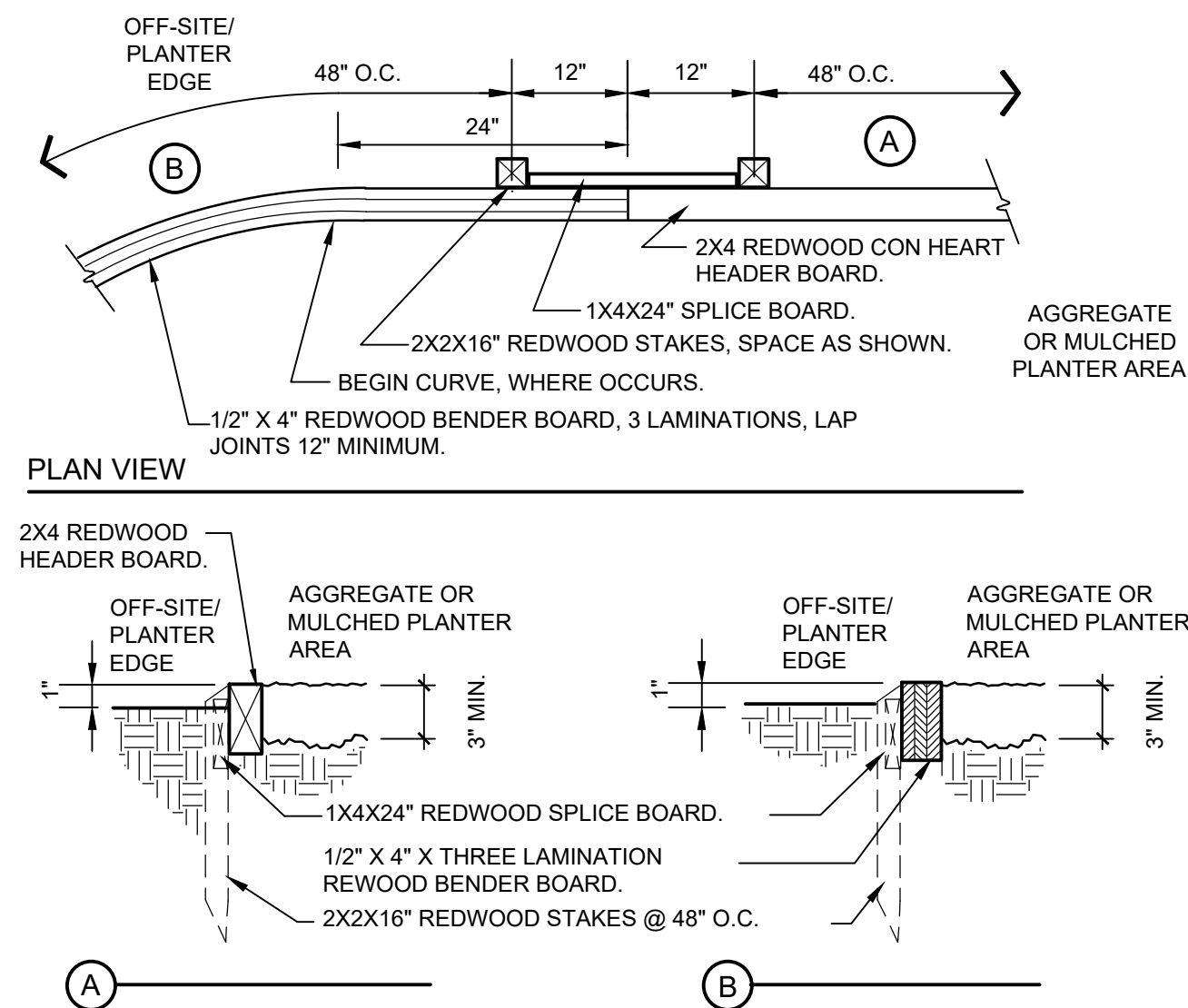
L 3.1



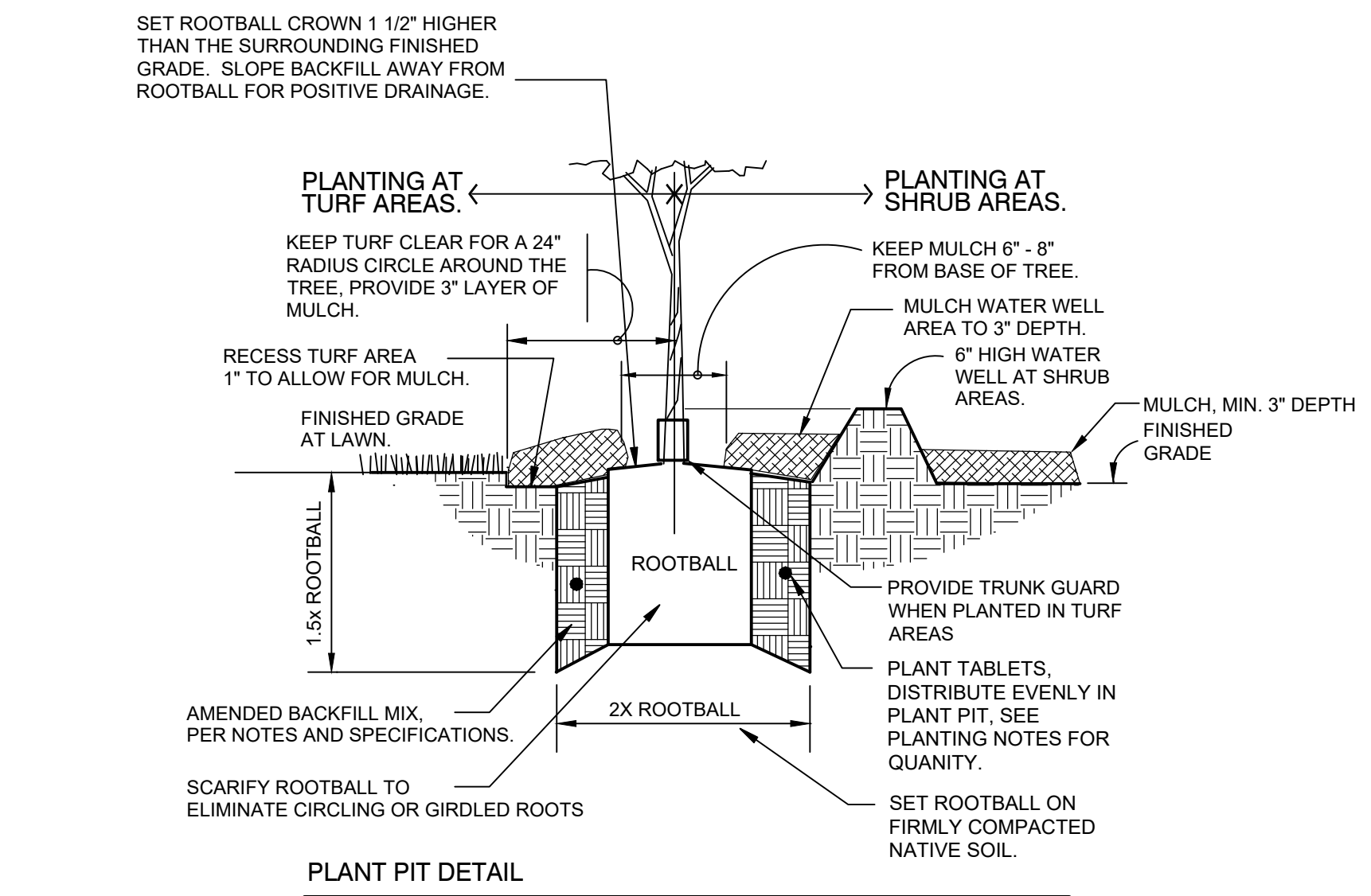
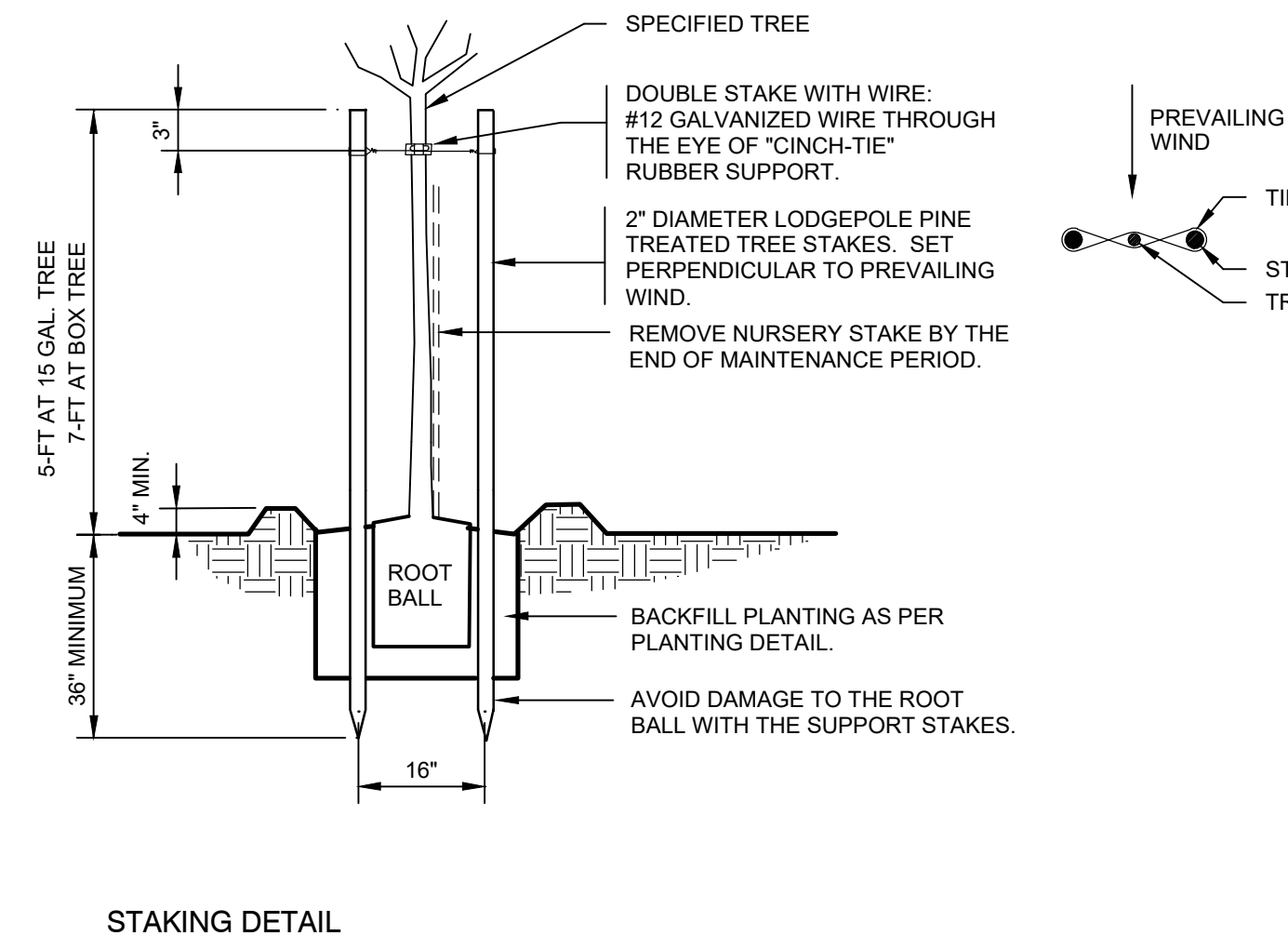
3 AGGREGATE BED
NTS 32 9301-01



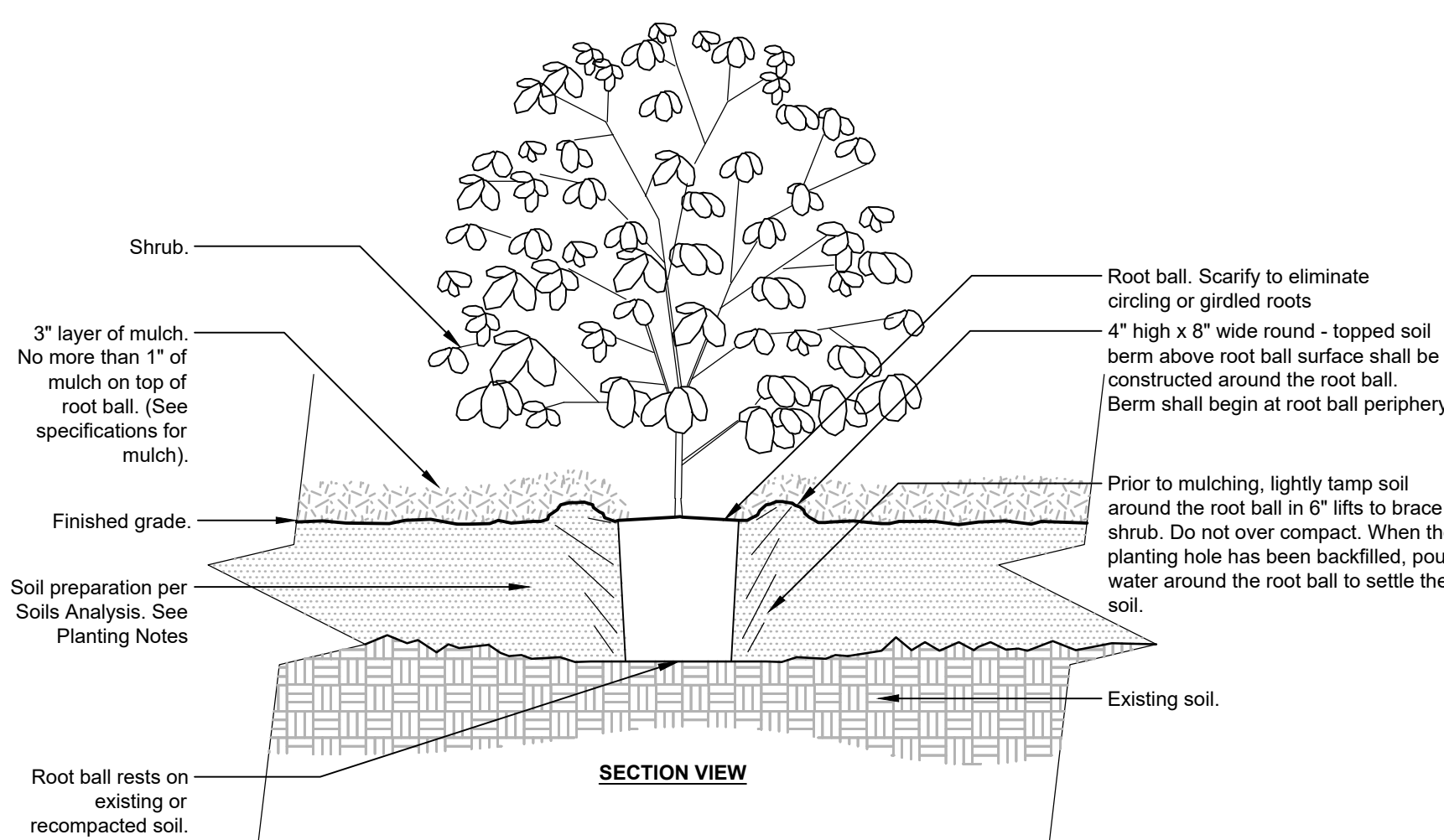
4 DECOMPOSED GRANITE (DG) PAVING
1 1/2" = 1'-0" 32 1516-04



5 REDWOOD HEADER
NTS 32 9301-02



1 TREE PLANTING
1" = 1'-0" 32 9301-13

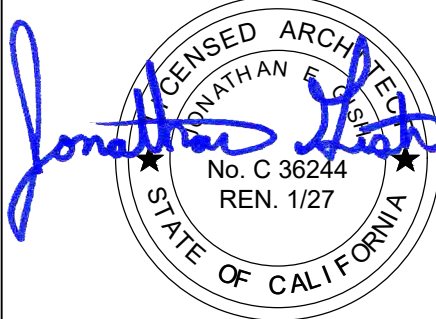


2 SHRUB PLANTING
NTS 32 9301-11

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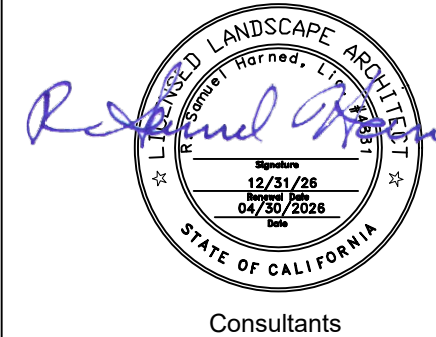
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**RIPON ELEMENTARY SCHOOL:
STAFF PARKING LOT**

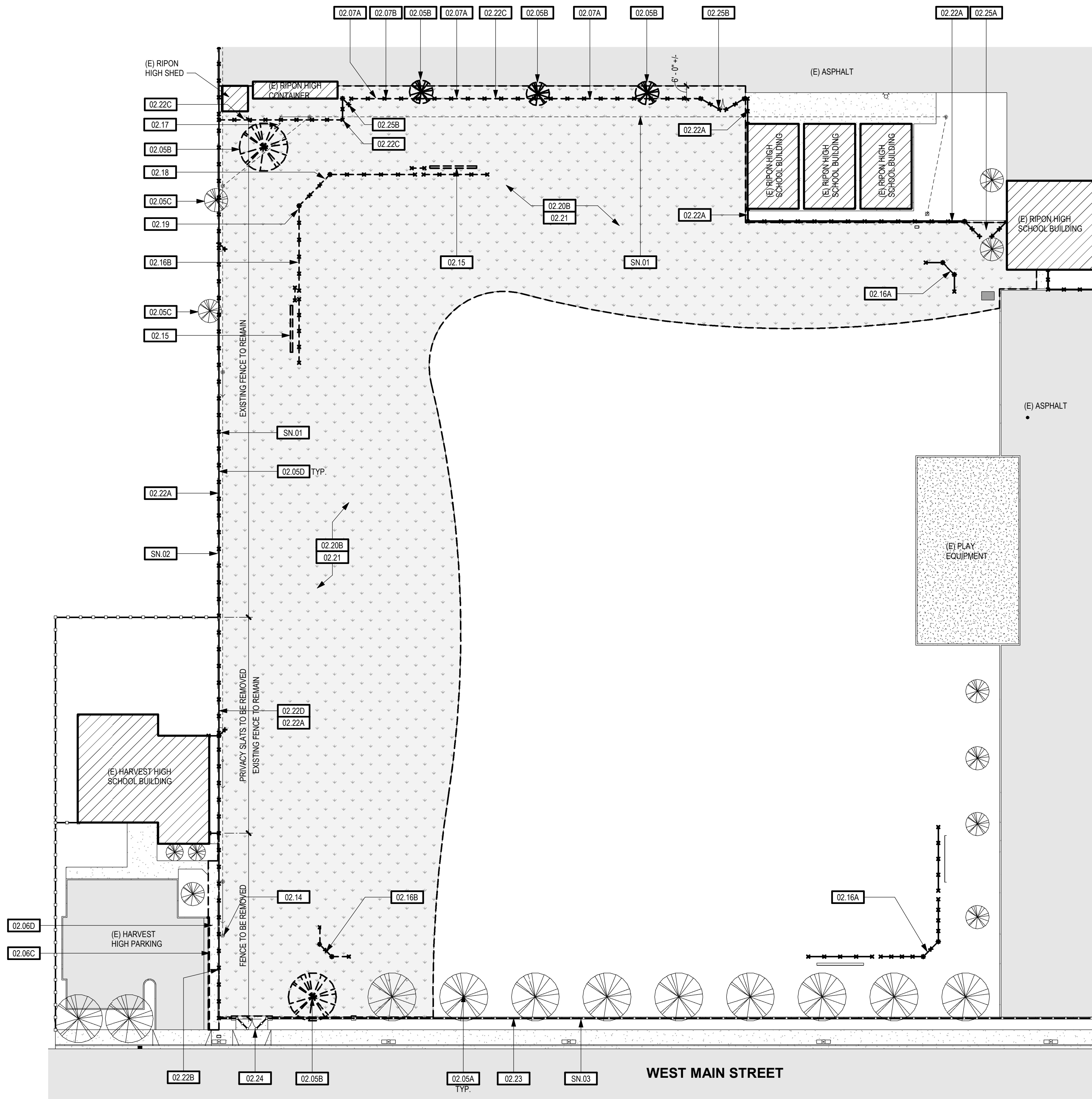
509 WEST MAIN STREET
RIPON, CA 95366
RIPON UNIFIED SCHOOL DISTRICT

PLANTING DETAILS

Project Number 2529 (SHLA 26-09)
Date MAY 2026
Drawn by RSH
Checked by RSH

L 4.1

C:\Local\2529 Ripon Elementary Parking Lot Central_Paul.rvt



KEYNOTES	
02.05A	TREE - EXISTING - TO REMAIN
02.05B	TREE - EXISTING - TO BE REMOVED
02.05C	TREE - EXISTING NEIGHBOR - TRIM BACK TO PROPERTY LINE
02.05D	TREES/SHRUBS/ETC. ALONG FENCE - EXISTING - TO BE REMOVED
02.06C	CONCRETE CURB - EXISTING - TO BE REMOVED - SEE CIVIL DRAWINGS
02.06D	CONCRETE SIDEWALK - EXISTING - TO BE REMOVED - SEE CIVIL DRAWINGS
02.07A	FIRE LANE SIGNS - EXISTING - REMOVE AND RELOCATE TO NEW FENCE
02.07B	HIGH SCHOOL SIGNS - EXISTING - REMOVE AND RELOCATE TO NEW FENCE
02.14	PG&E RISER POLE - EXISTING - TO BE REMOVED AND RELOCATED - SEE ELECTRICAL DRAWINGS
02.15	BASEBALL BENCH - EXISTING - TO BE REMOVED
02.16A	BASEBALL BACKSTOP - EXISTING - TO REMAIN
02.16B	BASEBALL BACKSTOP - EXISTING - TO BE REMOVED
02.17	BASEBALL SCOREBOARD - EXISTING - TO BE REMOVED
02.18	OUTLET BOX - EXISTING - TO BE REMOVED
02.19	HOSE BIB - EXISTING - TO BE REMOVED
02.20B	TURF - EXISTING - TO BE REMOVED - SEE LANDSCAPING DRAWINGS
02.21	SPRINKLERS - EXISTING - LAYOUT TO BE MODIFIED (REMOVED AND/OR MOVED) FOR FULL TURF COVERAGE - SEE LANDSCAPING DRAWINGS
02.22A	CHAIN LINK FENCE - EXISTING - TO REMAIN
02.22B	CHAIN LINK FENCE - EXISTING - APPROXIMATELY 88 L.F. TO BE REMOVED (UP TO GATE AT HARVEST HIGH SCHOOL BUILDING)
02.22C	CHAIN LINK FENCE - EXISTING - TO BE REMOVED
02.22D	PRIVACY SLATS IN FENCE - EXISTING AT HARVEST HIGH SCHOOL PROPERTY ONLY - TO BE REMOVED AND REPLACED
02.23	ORNAMENTAL METAL FENCE - EXISTING - TO REMAIN
02.24	ORNAMENTAL GATE - EXISTING - TO REMAIN
02.25A	CHAIN LINK GATE - EXISTING - TO REMAIN
02.25B	CHAIN LINK GATE - EXISTING - TO BE REMOVED

SHEET NOTES	
SN.01	LINE DENOTES OVERHEAD LINES
SN.02	PROPERTY LINE IS APPROXIMATE (NOT SURVEYED)
SN.03	RIGHT-OF-WAY LINE IS APPROXIMATE (NOT SURVEYED)

NOTES

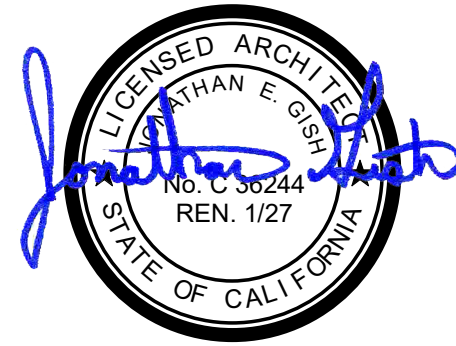
	EXISTING AC PAVING - TO REMAIN		EXISTING BUILDING
	EXISTING CONCRETE FLATWORK - TO REMAIN		LAWN / LANDSCAPE - TO REMAIN - SEE LANDSCAPE PLANS
	EXISTING AC PAVING - TO BE REMOVED		LAWN / LANDSCAPE - TO BE REMOVED - SEE LANDSCAPE PLANS
	EXISTING CONCRETE FLATWORK - TO BE REMOVED		

SITE LEGEND

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124175 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/31/26



TIMOTHY P. HUFF &
ASSOCIATES, INC.
Jonathan E. Gish, AIA Architect
519 McHenry Ave., Modesto, CA 95354
Ph: (209) 571-2232 Fax: (209) 571-1936



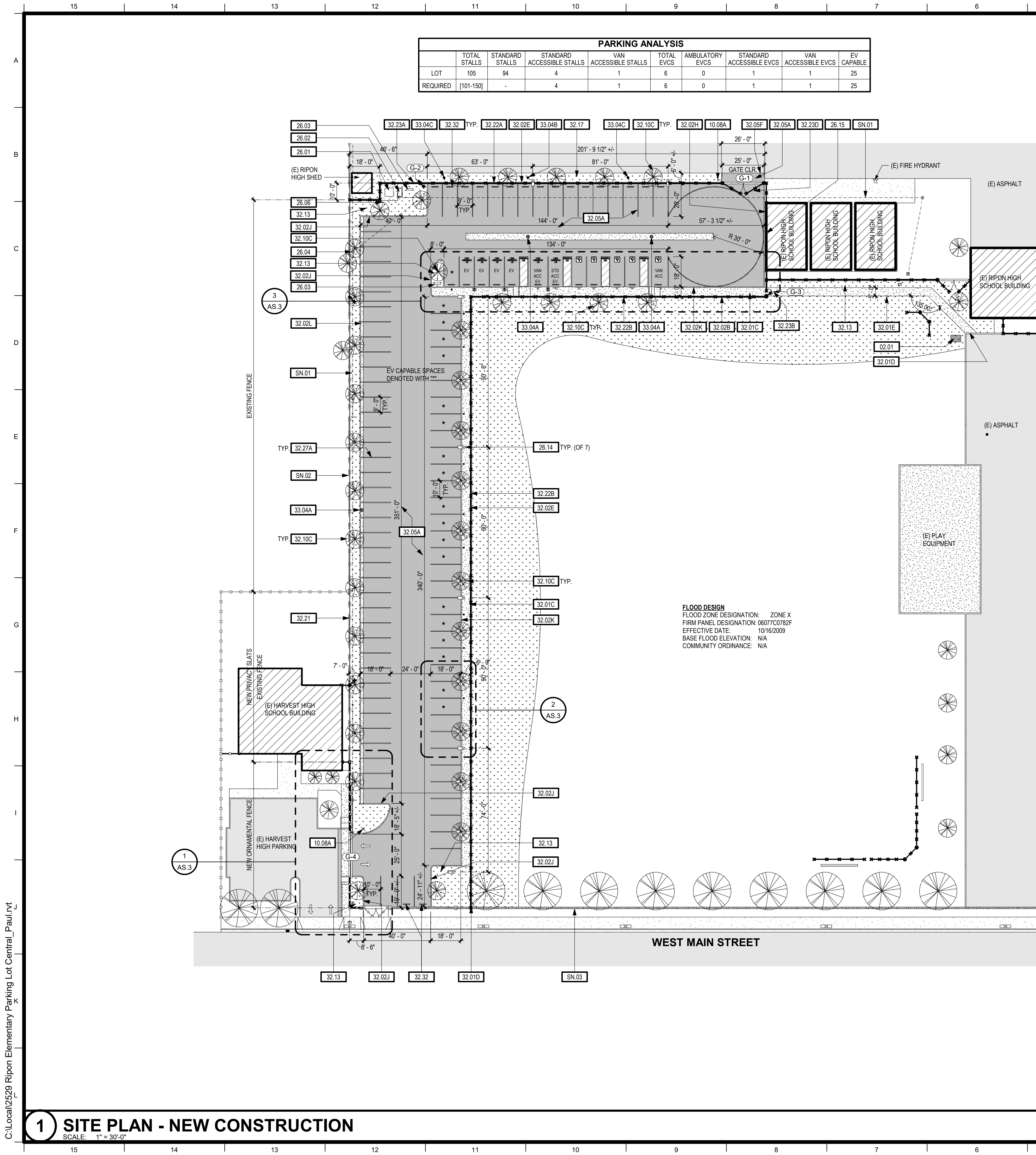
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Consultants

RIPON ELEMENTARY SCHOOL:
STAFF PARKING LOT
509 WEST MAIN STREET
RIPON, CA 95366
RIPON UNIFIED SCHOOL DISTRICT
SITE PLAN - DEMOLITION

Project Number 2529
Date MARCH 2026
Drawn by PTM
Checked by JG

AS.1
Plot Date & Time 8/4/2026 4:00:54 PM



KEYNOTES	
02.01	WELL COVER - EXISTING - TO REMAIN - PROTECT IN PLACE
10.08A	SITE SIGN - ACCESSIBLE PARKING ENTRY SIGN - SEE DETAIL 11/AS.5
26.01	ELECTRICAL POWER - TRANSFORMER ON CONCRETE PAD - SEE ELECTRICAL DRAWINGS
26.02	ELECTRICAL POWER - MAIN SWITCHBOARD ON CONCRETE PAD - SEE ELECTRICAL DRAWINGS
26.03	ELECTRICAL POWER - PANEL - SEE ELECTRICAL DRAWINGS
26.04	ELECTRICAL POWER - 4" CONDUIT STUB RISER UP POLE - SEE ELECTRICAL DRAWINGS
26.06	ELECTRICAL - BOLLARDS FOR TRANSFORMER - SEE DETAIL 11/AS.4 AND ELECTRICAL DRAWINGS
26.14	LIGHTING - EXTERIOR POLE LIGHT - SEE ELECTRICAL DRAWINGS
26.15	LIGHTING - EXTERIOR - SEE ELECTRICAL DRAWINGS
32.01C	CONCRETE FLATWORK - SEE DETAIL 1/AS.4 & CIVIL DRAWINGS
32.01D	CONCRETE FLATWORK - NEW TO EXISTING - SEE DETAIL 4/AS.4
32.01E	CONCRETE FLATWORK EDGE - SEE DETAIL 3/AS.4
32.02B	CONCRETE MOW STRIP - 12" WIDE - SEE DETAIL 8/AS.4
32.02E	CONCRETE MOW STRIP AT FENCE - 12" - SEE DETAIL 8/AS.4 & CIVIL DRAWINGS
32.02H	CONCRETE CURB AT EXISTING BUILDING - SEE DETAIL 7/AS.4 AND CIVIL DRAWINGS
32.02J	CONCRETE CURB AT PLANTER - SEE DETAIL 5/AS.4 & CIVIL DRAWINGS
32.02K	CONCRETE CURB AT SIDEWALK - SEE DETAIL 6/AS.4 & CIVIL DRAWINGS
32.02L	CONCRETE CURB AND GUTTER - SEE DETAIL 6/AS.4 & CIVIL DRAWINGS
32.05A	ASPHALT PAVING - SEE CIVIL DRAWINGS
32.05F	ASPHALT PAVING - NEW TO EXISTING - SEE DETAIL 9/AS.4
32.10C	PLANTING - NEW TREE - SEE LANDSCAPE DRAWINGS
32.13	PLANTING / HARDSCAPE AREA - SEE LANDSCAPE DRAWINGS
32.17	DIRT - EXISTING - REGRADE TO 1" BELOW ASPHALT, REMOVE DIRT CLOUDS AND ROCKS
32.21	PRIVACY SLATS - CHAIN LINK FENCE - BLACK
32.22A	CHAIN LINK FENCE (6'-0" TALL) - SEE DETAIL 1/AS.5
32.22B	CHAIN LINK FENCE (4'-0" TALL) - SEE DETAIL 1/AS.5
32.23A	CHAIN LINK SWING GATE (3'-0"W. X ADJ. FENCE HEIGHT) - SEE DETAIL 3/AS.5
32.23B	CHAIN LINK SWING GATE (4'-0"W. X ADJ. FENCE HEIGHT) - SEE DETAIL 3/AS.5
32.23D	CHAIN LINK SWING GATE 23W. (EA LEAF 12'-6"W. X ADJ. FENCE HEIGHT) - SEE DETAIL 4/AS.5
32.27A	PAVEMENT STRIPING - 4" WIDE PARKING STRIPING - PAINTED WHITE
32.32	PRECAST CONCRETE WHEEL STOP - SEE DETAIL 12/AS.4
33.04A	SITE UTILITY - STORM DRAIN CATCH BASIN - SEE CIVIL DRAWINGS
33.04B	SITE UTILITY - LANDSCAPE CATCH BASIN - SEE CIVIL DRAWINGS
33.04C	SITE UTILITY - LANDSCAPE DRAIN - SEE CIVIL DRAWINGS

SHEET NOTES	
SN.01	LINE DENOTES OVERHEAD LINES
SN.02	PROPERTY LINE IS APPROXIMATE (NOT SURVEYED)
SN.03	RIGHT-OF-WAY LINE IS APPROXIMATE (NOT SURVEYED)

NOTES

GATE SCHEDULE					
GATE #	WIDTH	MATERIAL	GATE HDW.	TYPE	DETAIL
G-1	25'-0"	C.L.	D.F.L. C.B.	DOUBLE SWING	4/AS.5
G-2	3'-0"	C.L.	D.F.L.	SINGLE	3/AS.5
G-3	3'-0"	C.L.	D.F.L.	SINGLE	3/AS.5
G-4	25'-0"	O.M.	N/A	ROLLING	9/AS.5

"O.M." - ORNAMENTAL METAL
"C.L." - CHAIN LINK
"D.F.L." - DROP FORK LATCH (XYZ/AS.4)
"C.B." - CANE BOLT

GATE SCHEDULE

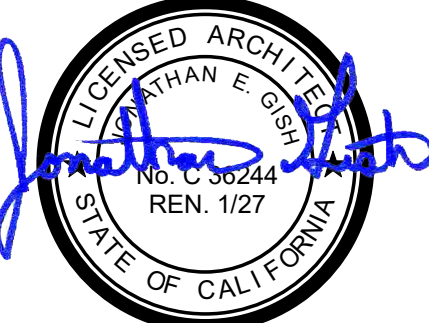
AC PAVING - EXISTING - TO REMAIN	LAWN / LANDSCAPE - EXISTING - TO REMAIN
AC PAVING - NEW	LAWN / LANDSCAPE - NEW OR REPAIRED - SEE LANDSCAPE DRAWINGS
CONCRETE FLATWORK - EXISTING - TO REMAIN	BUILDING - EXISTING
EXPANSION / CONSTRUCTION JOINT - MAX. 20' O.C.	
CONCRETE FLATWORK - NEW - SEE DETAILS 1,2,3,4,6/AS.3	
CONTROL JOINT - MAX. 6' O.C.	

SITE LEGEND

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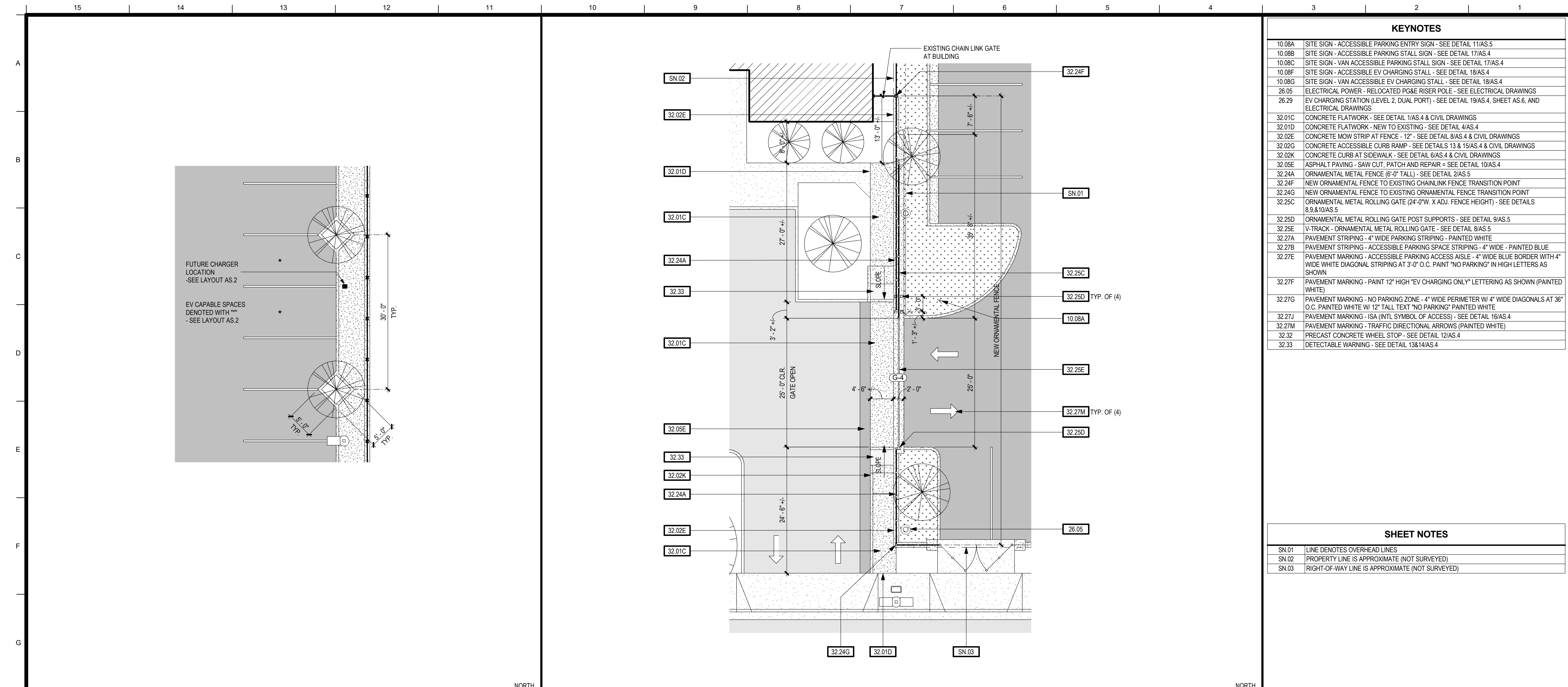
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**RIPON ELEMENTARY SCHOOL:
STAFF PARKING LOT**
509 WEST MAIN STREET
RIPON, CA 95366
RIPON UNIFIED SCHOOL DISTRICT
SITE PLAN - NEW CONSTRUCTION

Project Number 2529
Date MARCH 2026
Drawn by PTM
Checked by JG

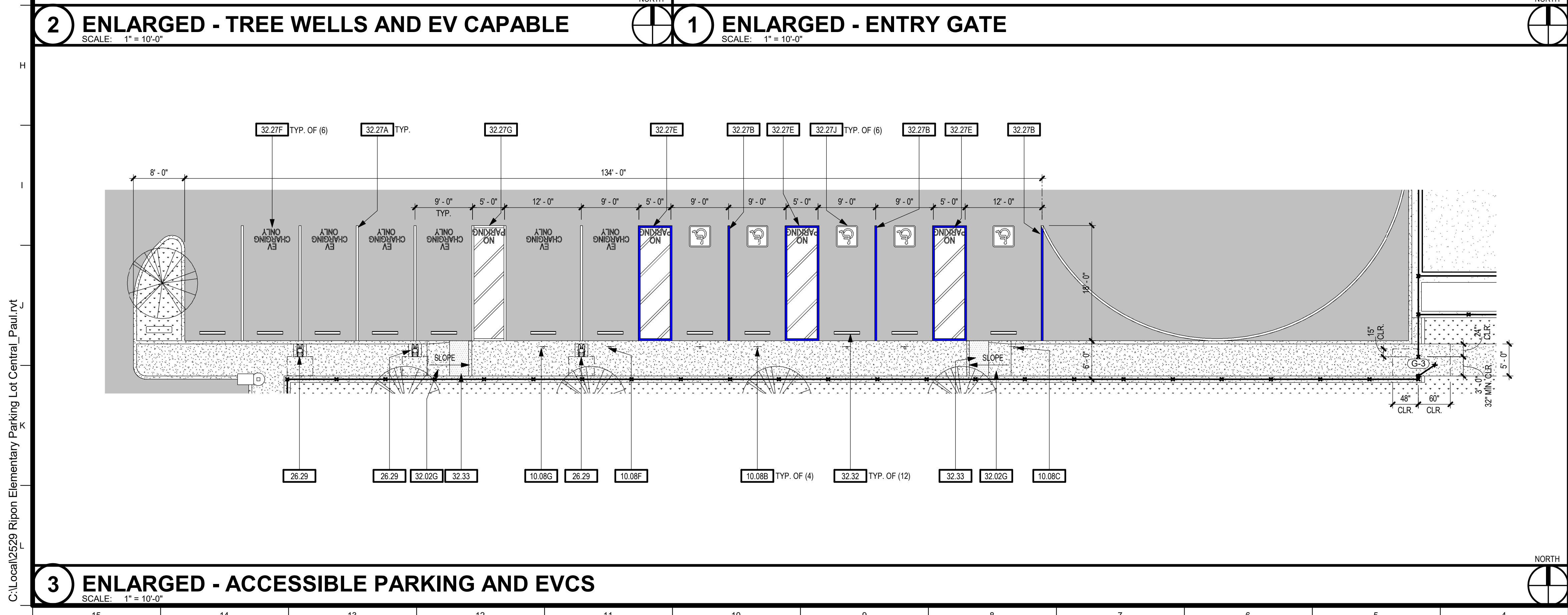
AS.2
Plot Date & Time 8/5/2026 10:14:21 AM



KEYNOTES	
10.08A	SITE SIGN - ACCESSIBLE PARKING ENTRY SIGN - SEE DETAIL 11/AS.5
10.08B	SITE SIGN - ACCESSIBLE PARKING STALL SIGN - SEE DETAIL 17/AS.4
10.08C	SITE SIGN - VAN ACCESSIBLE PARKING STALL SIGN - SEE DETAIL 17/AS.4
10.08F	SITE SIGN - ACCESSIBLE EV CHARGING STALL - SEE DETAIL 18/AS.4
10.08G	SITE SIGN - VAN ACCESSIBLE EV CHARGING STALL - SEE DETAIL 18/AS.4
26.05	ELECTRICAL POWER - RELOCATED PG&E RISER POLE - SEE ELECTRICAL DRAWINGS
26.29	EV CHARGING STATION (LEVEL 2, DUAL PORT) - SEE DETAIL 19/AS.4, SHEET AS.6, AND ELECTRICAL DRAWINGS
32.01C	CONCRETE FLATWORK - SEE DETAIL 1/AS.4 & CIVIL DRAWINGS
32.01D	CONCRETE FLATWORK - NEW TO EXISTING - SEE DETAIL 4/AS.4
32.02E	CONCRETE MOW STRIP AT FENCE - 12" - SEE DETAIL 8/AS.4 & CIVIL DRAWINGS
32.02G	CONCRETE ACCESSIBLE CURB RAMP - SEE DETAILS 13 & 15/AS.4 & CIVIL DRAWINGS
32.02K	CONCRETE CURB AT SIDEWALK - SEE DETAIL 6/AS.4 & CIVIL DRAWINGS
32.05E	ASPHALT PAVING - SAW CUT, PATCH AND REPAIR - SEE DETAIL 10/AS.4
32.24A	ORNAMENTAL METAL FENCE (6'-0" TALL) - SEE DETAIL 2/AS.5
32.24F	NEW ORNAMENTAL FENCE TO EXISTING CHAINLINK FENCE TRANSITION POINT
32.24G	NEW ORNAMENTAL FENCE TO EXISTING ORNAMENTAL FENCE TRANSITION POINT
32.25C	ORNAMENTAL METAL ROLLING GATE (24'-0"W. X ADJ. FENCE HEIGHT) - SEE DETAILS 8.9.8 & 10/AS.5
32.25D	ORNAMENTAL METAL ROLLING GATE POST SUPPORTS - SEE DETAIL 9/AS.5
32.25E	V-TRACK - ORNAMENTAL METAL ROLLING GATE - SEE DETAIL 8/AS.5
32.27A	PAVEMENT STRIPING - 4" WIDE PARKING STRIPING - PAINTED WHITE
32.27B	PAVEMENT STRIPING - ACCESSIBLE PARKING SPACE STRIPING - 4" WIDE - PAINTED BLUE
32.27E	PAVEMENT MARKING - ACCESSIBLE PARKING ACCESS AISLE - 4" WIDE BLUE BORDER WITH 4" WIDE WHITE DIAGONAL STRIPING AT 3'-0" O.C. PAINT "NO PARKING" IN HIGH LETTERS AS SHOWN
32.27F	PAVEMENT MARKING - PAINT 12" HIGH "EV CHARGING ONLY" LETTERING AS SHOWN (PAINTED WHITE)
32.27G	PAVEMENT MARKING - NO PARKING ZONE - 4" WIDE PERIMETER W/ 4" WIDE DIAGONALS AT 36" O.C. PAINTED WHITE W/ 12" TALL TEXT "NO PARKING" PAINTED WHITE
32.27J	PAVEMENT MARKING - ISA (INTL SYMBOL OF ACCESS) - SEE DETAIL 16/AS.4
32.27M	PAVEMENT MARKING - TRAFFIC DIRECTIONAL ARROWS (PAINTED WHITE)
32.32	PRECAST CONCRETE WHEEL STOP - SEE DETAIL 12/AS.4
32.33	DETECTABLE WARNING - SEE DETAIL 13&14/AS.4

SHEET NOTES	
SN.01	LINE DENOTES OVERHEAD LINES
SN.02	PROPERTY LINE IS APPROXIMATE (NOT SURVEYED)
SN.03	RIGHT-OF-WAY LINE IS APPROXIMATE (NOT SURVEYED)

NOTES



	AC PAVING - EXISTING - TO REMAIN		LAWN / LANDSCAPE - EXISTING - TO REMAIN
	AC PAVING - NEW		LAWN / LANDSCAPE - NEW OR REPAIRED - SEE LANDSCAPE DRAWINGS
	CONCRETE FLATWORK - EXISTING - TO REMAIN		BUILDING - EXISTING
	EXPANSION / CONSTRUCTION JOINT - MAX. 20' O.C.		
	CONCRETE FLATWORK - NEW - SEE DETAILS 1.2, 3.4, 6/AS.3		
	CONTROL JOINT - MAX. 6' O.C.		

SITE LEGEND

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DATE: 08/31/26

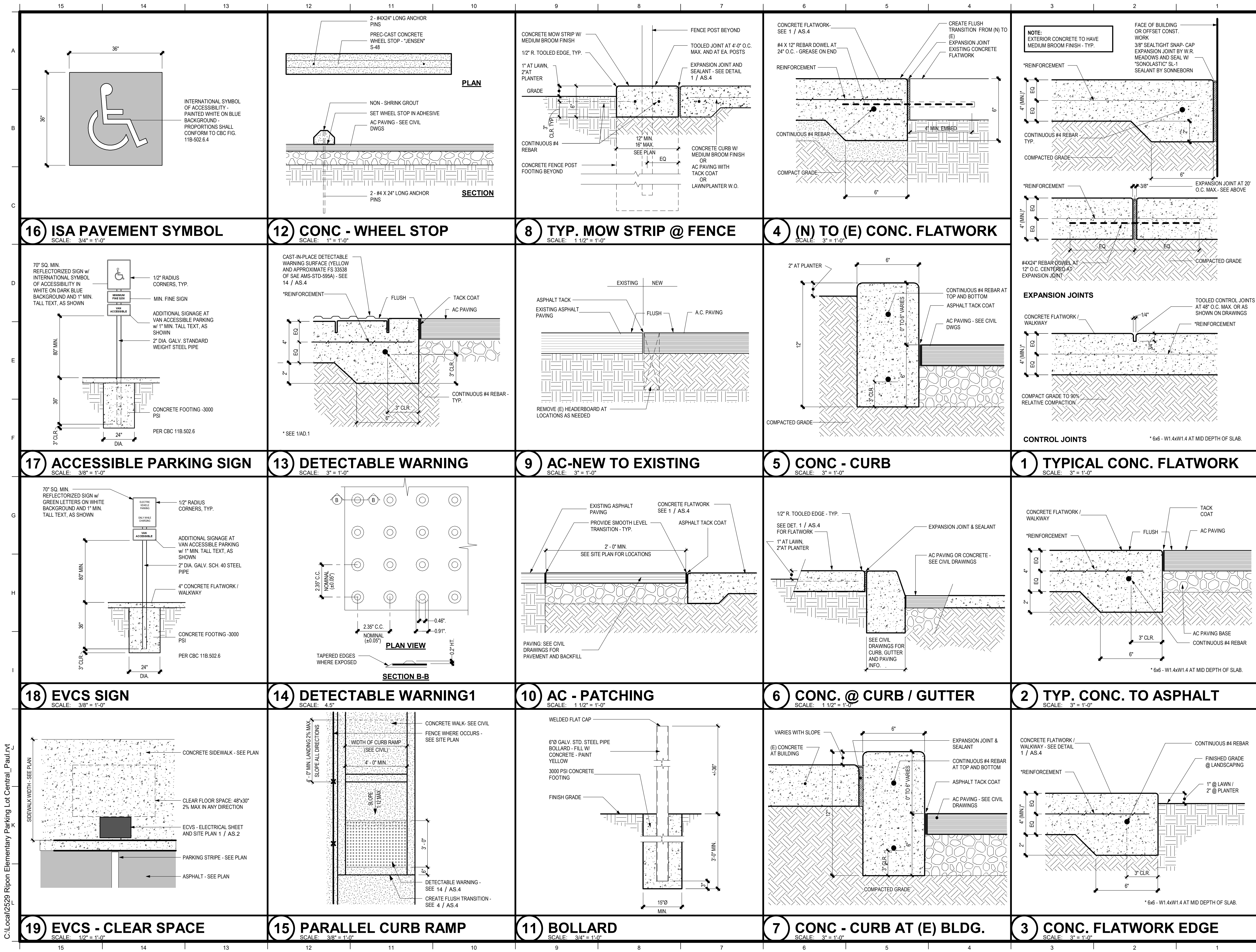
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**RIPON ELEMENTARY SCHOOL:
STAFF PARKING LOT**
509 WEST MAIN STREET
RIPON, CA 95366
RIPON UNIFIED SCHOOL DISTRICT
SITE PLAN - ENLARGED SITE PLANS

Project Number 2529
Date MARCH 2026
Drawn by PTM
Checked by JG

AS.3
Plot Date & Time 8/12/2026 2:29:43 PM



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DATE: 08/31/26

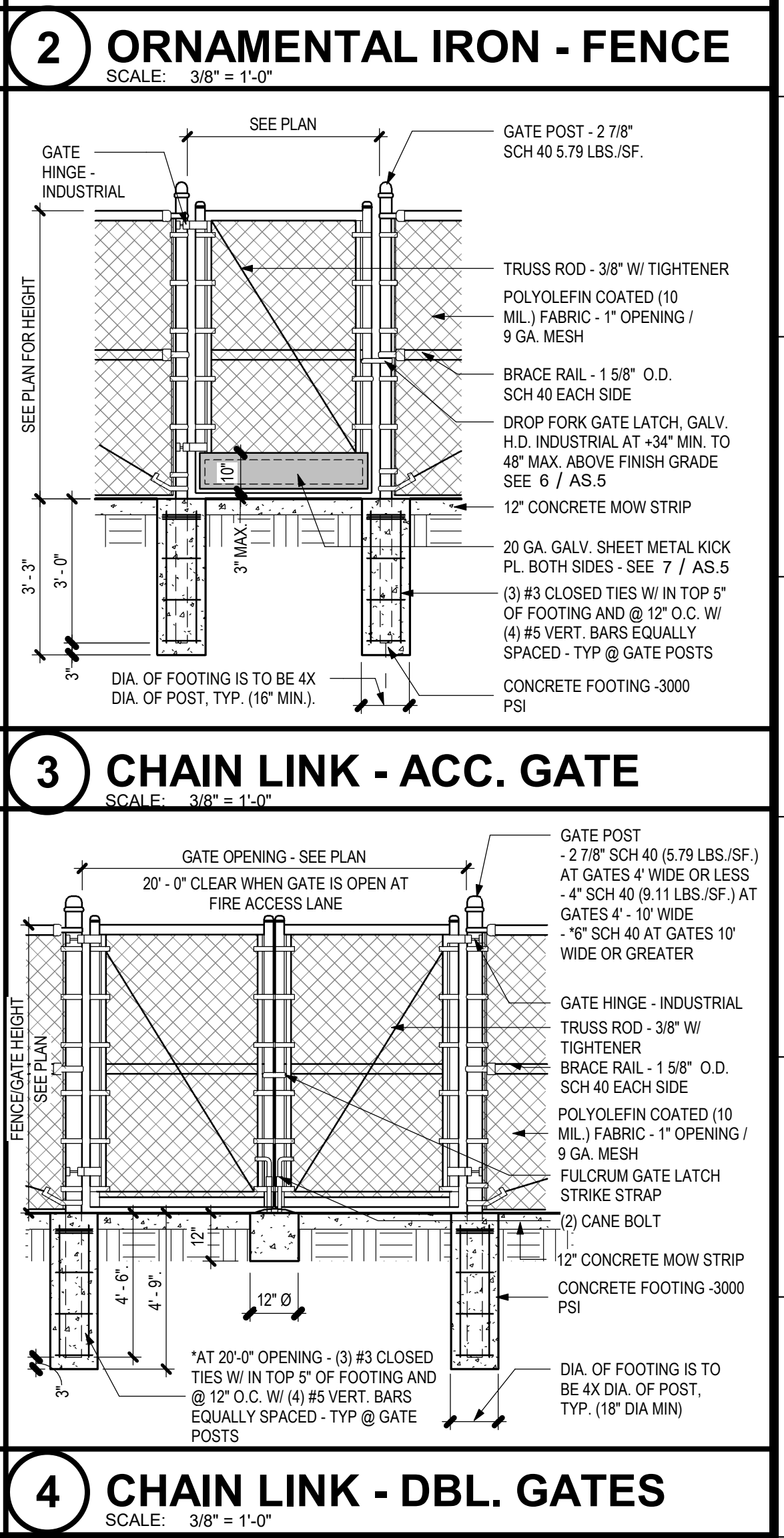
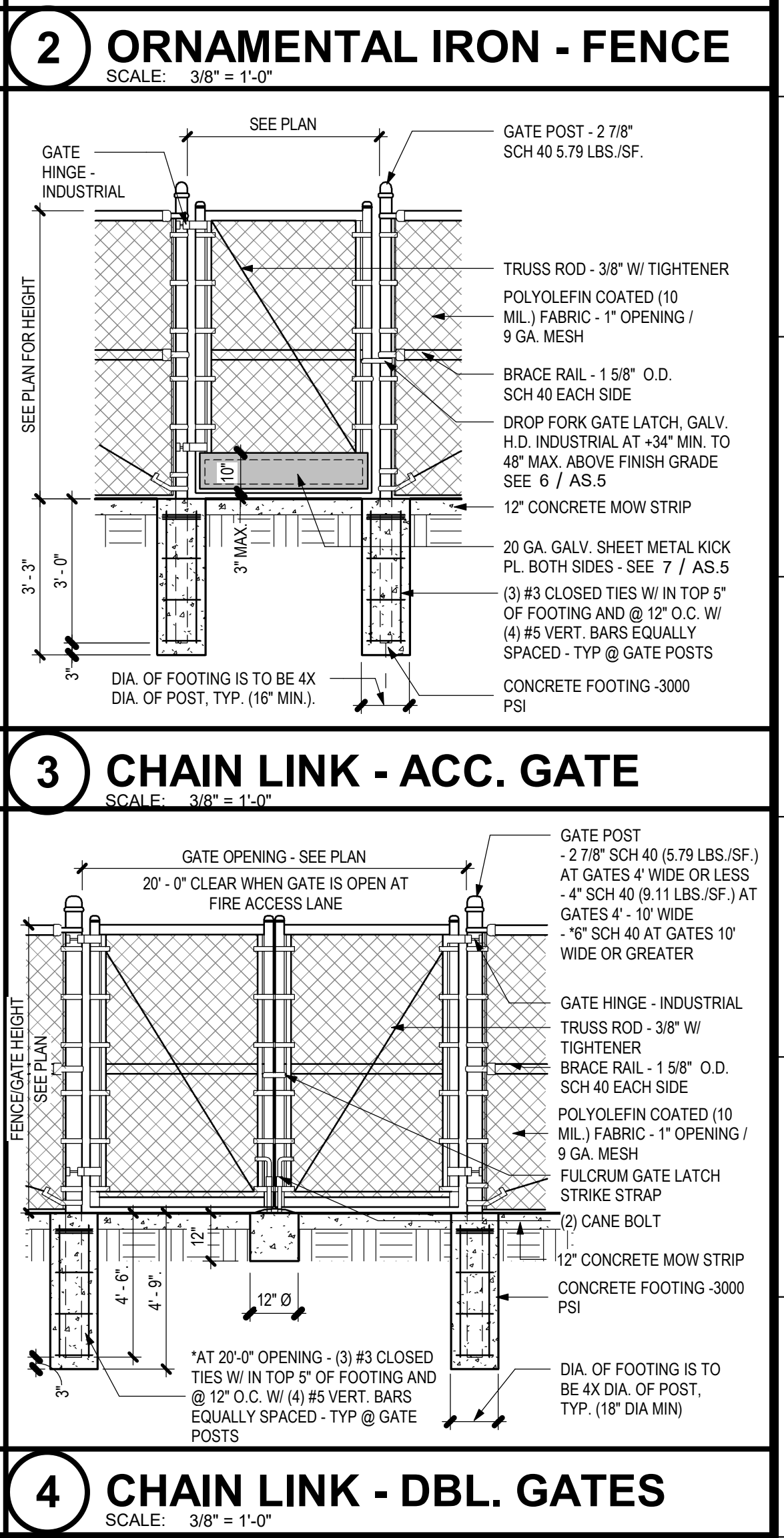
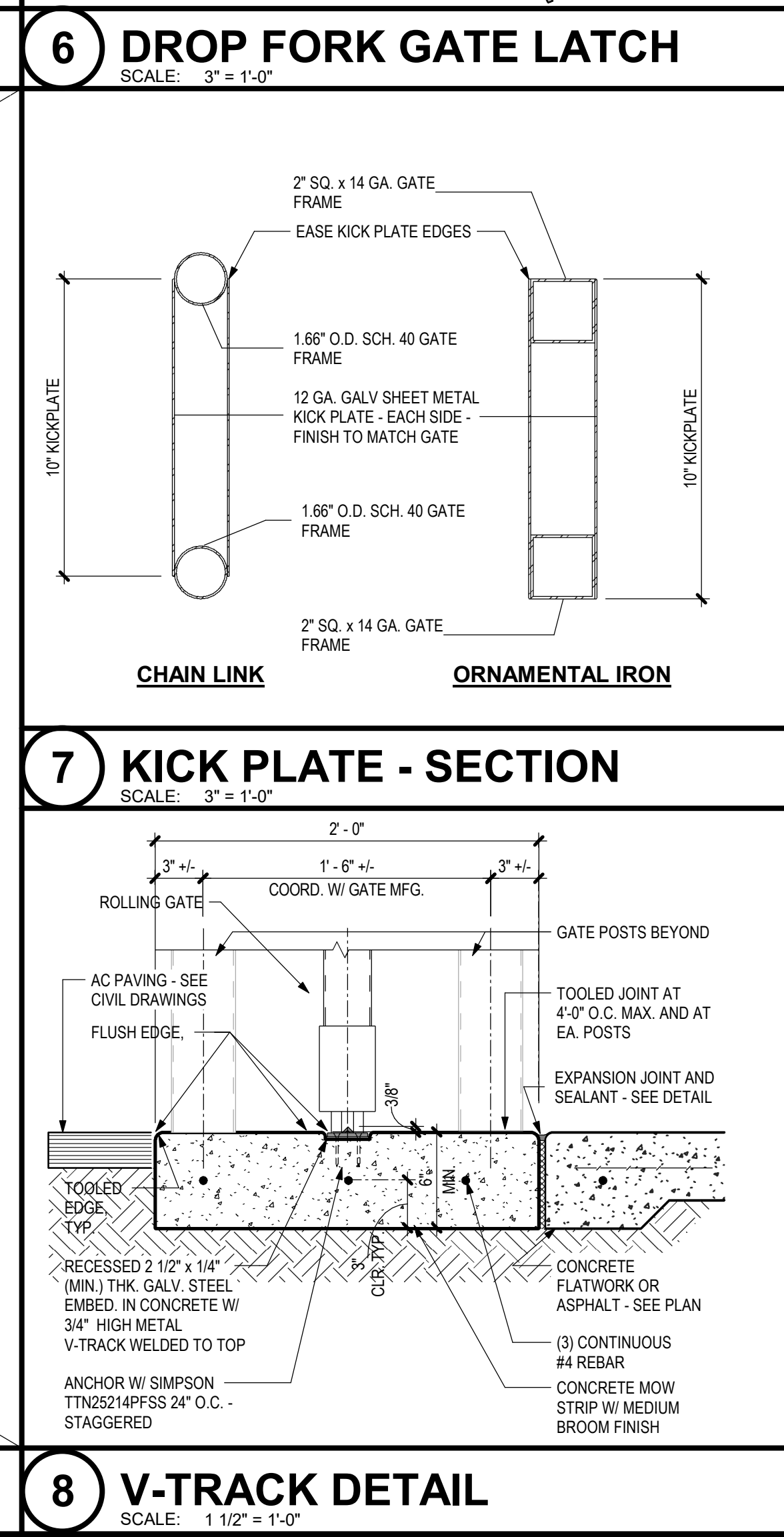
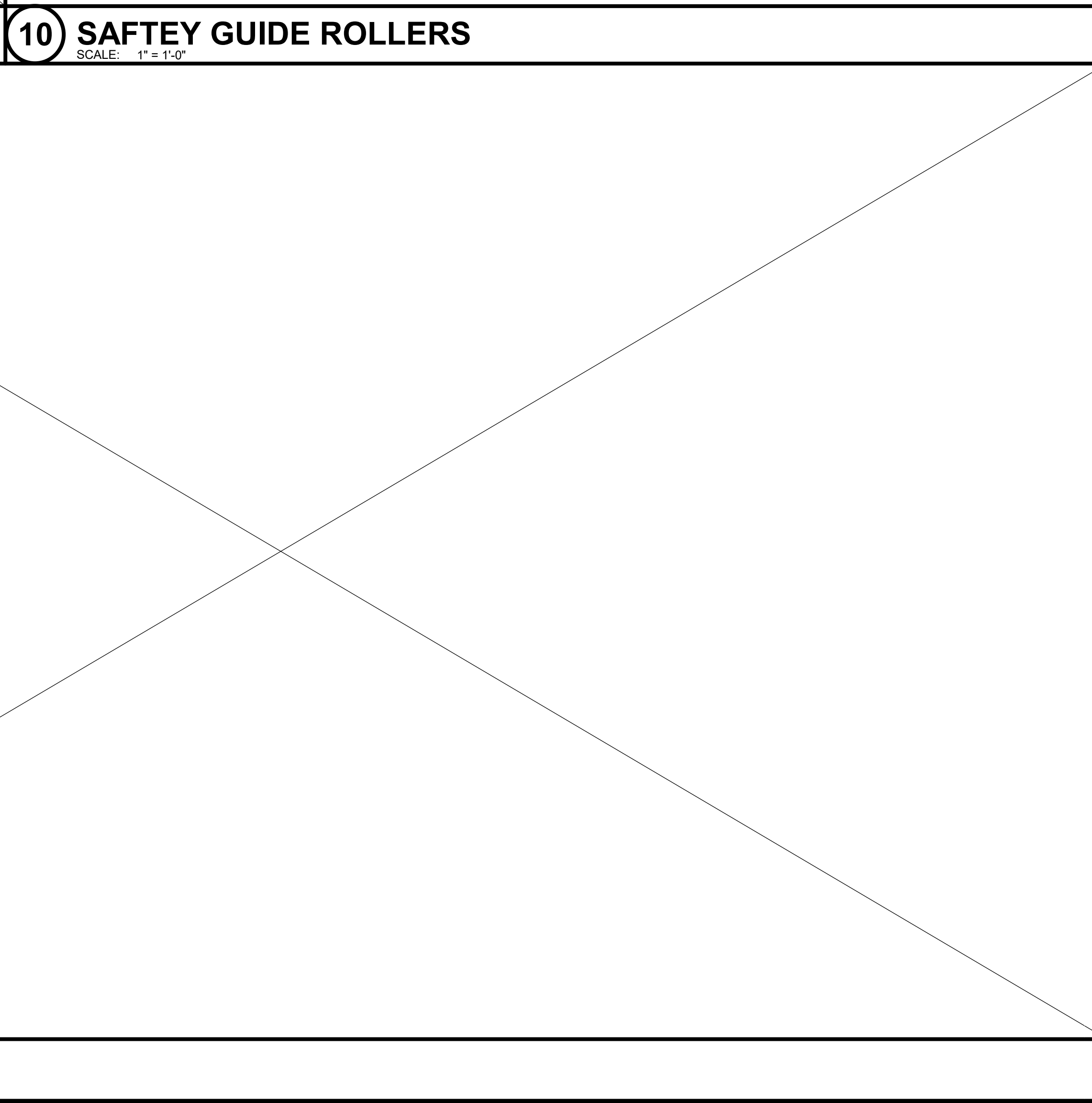
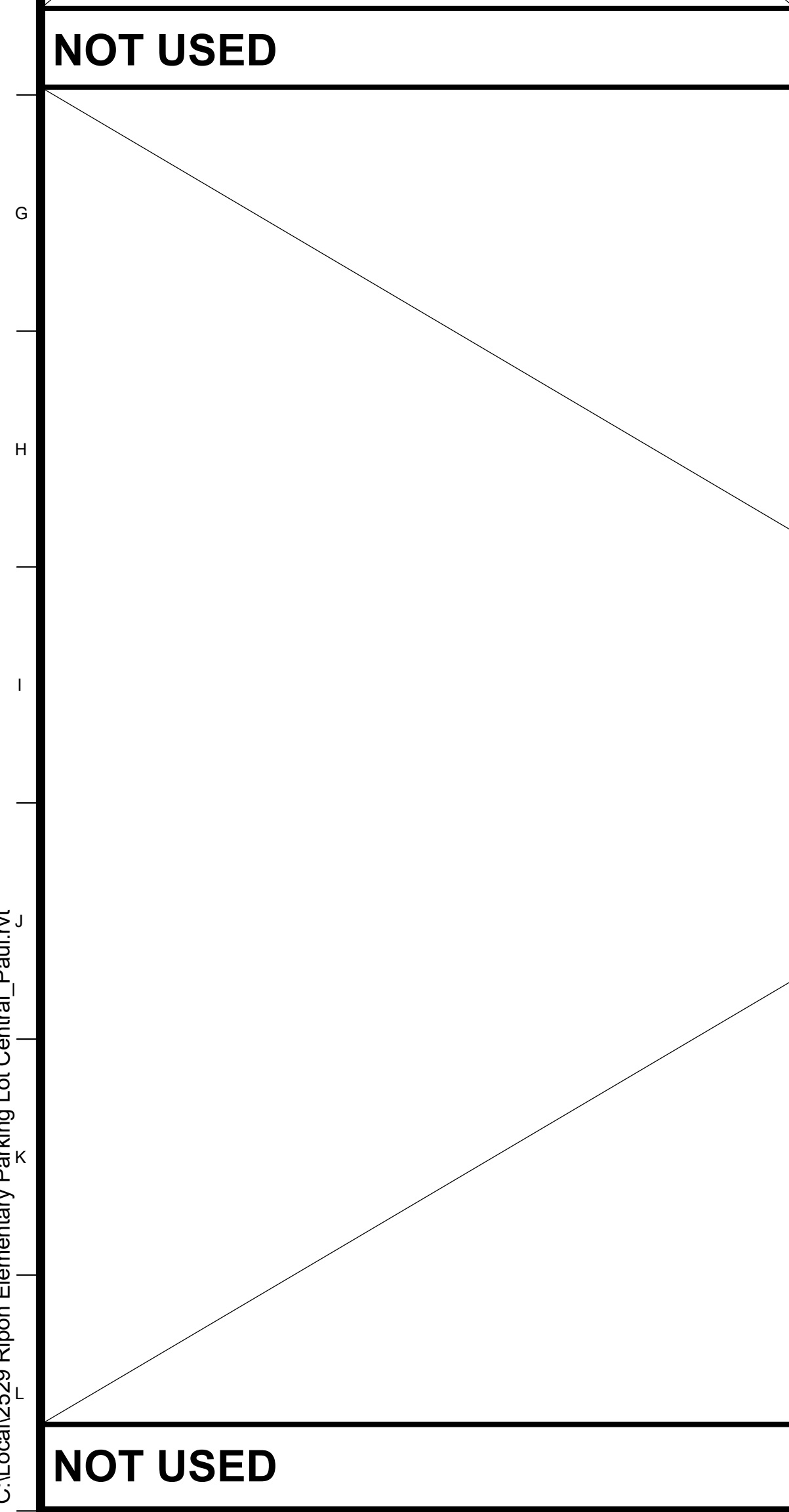
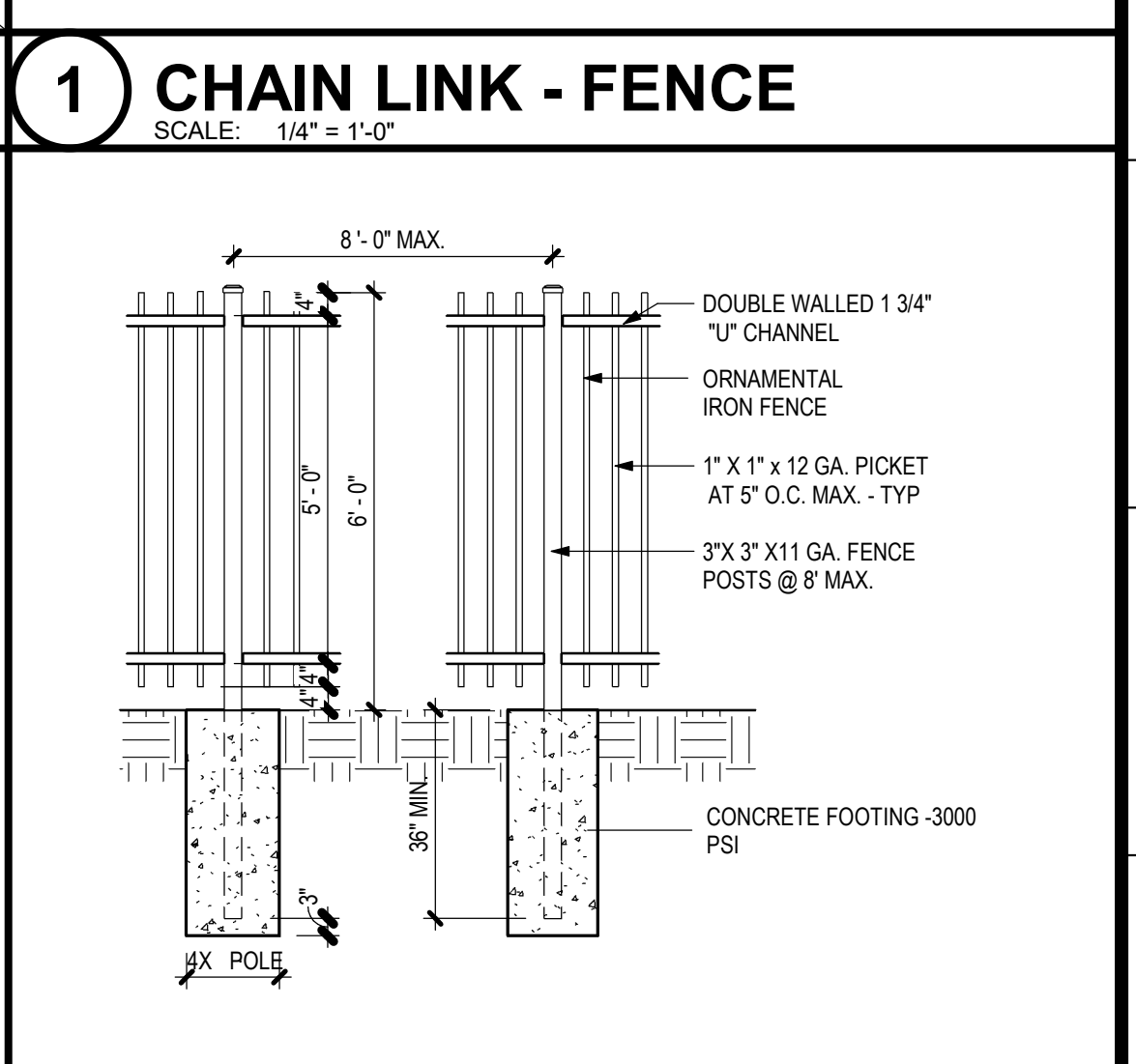
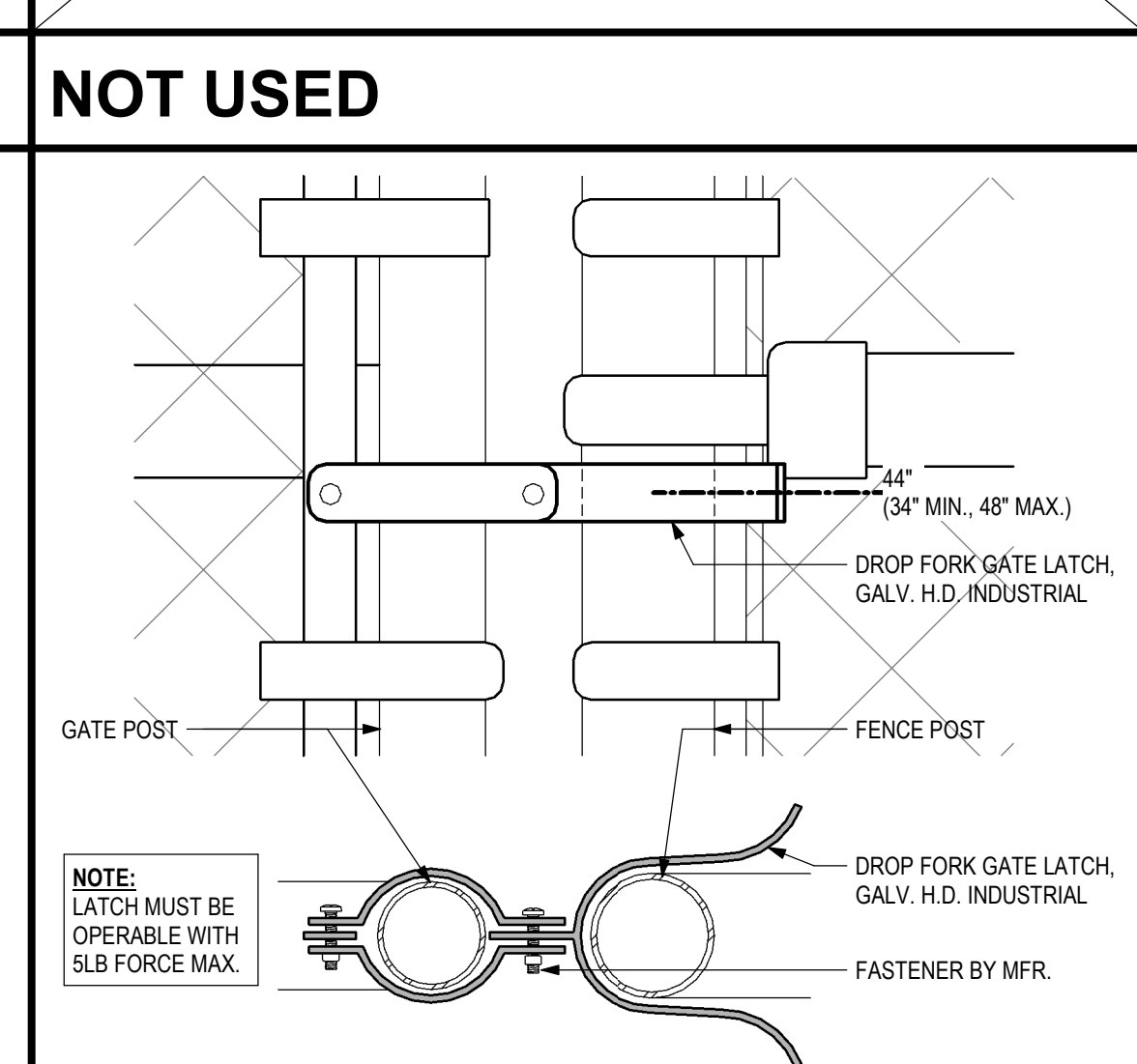
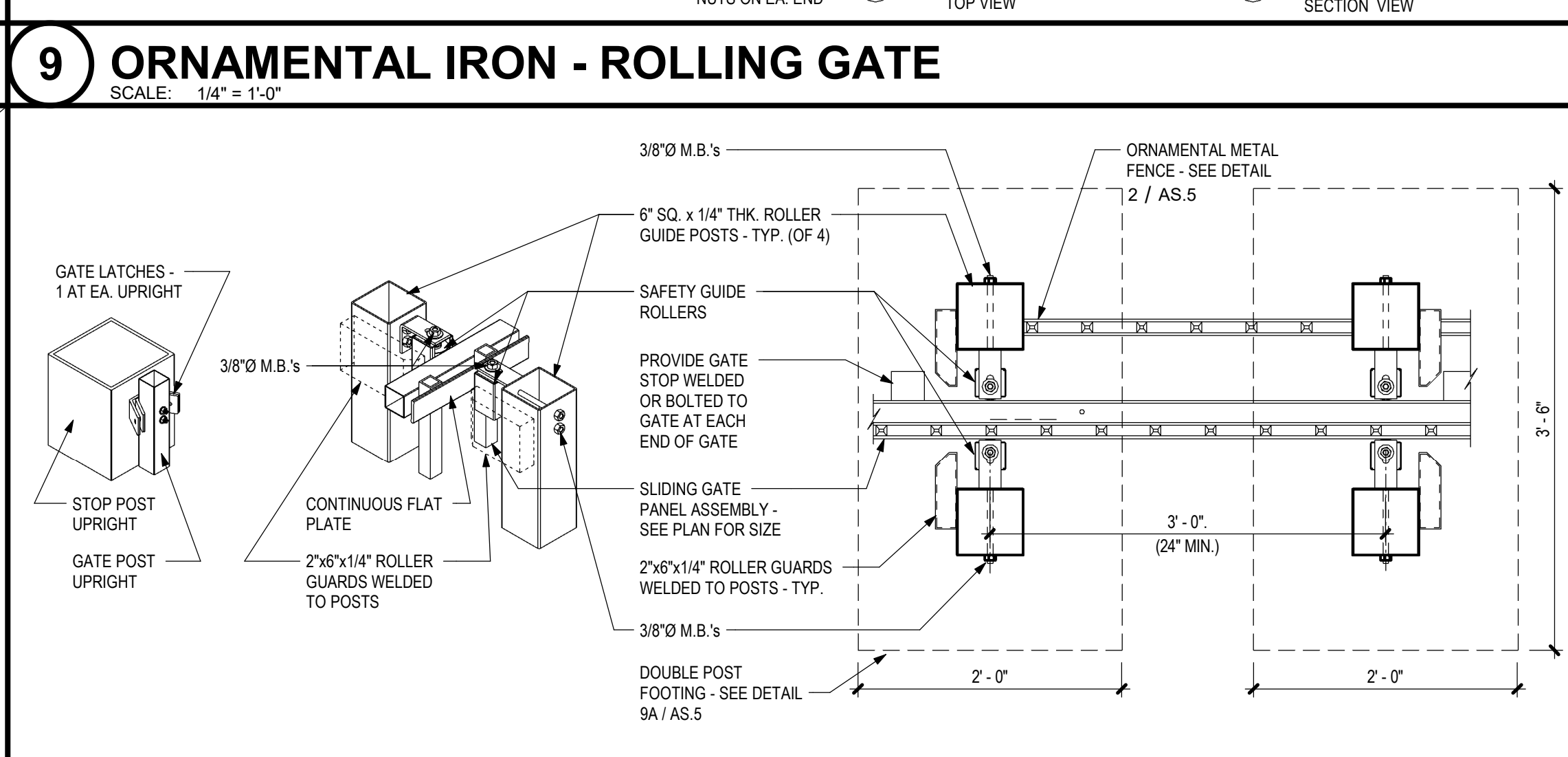
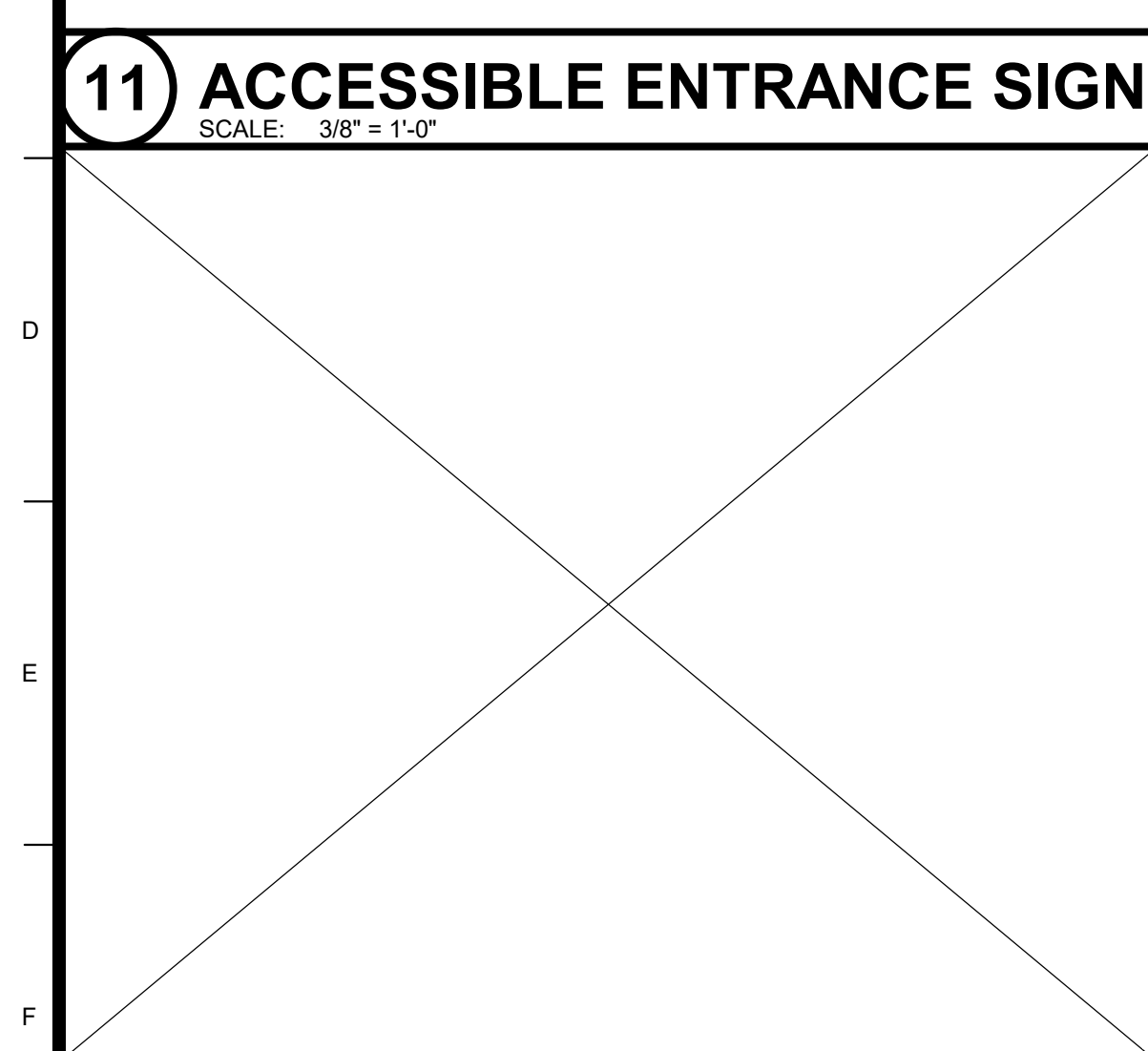
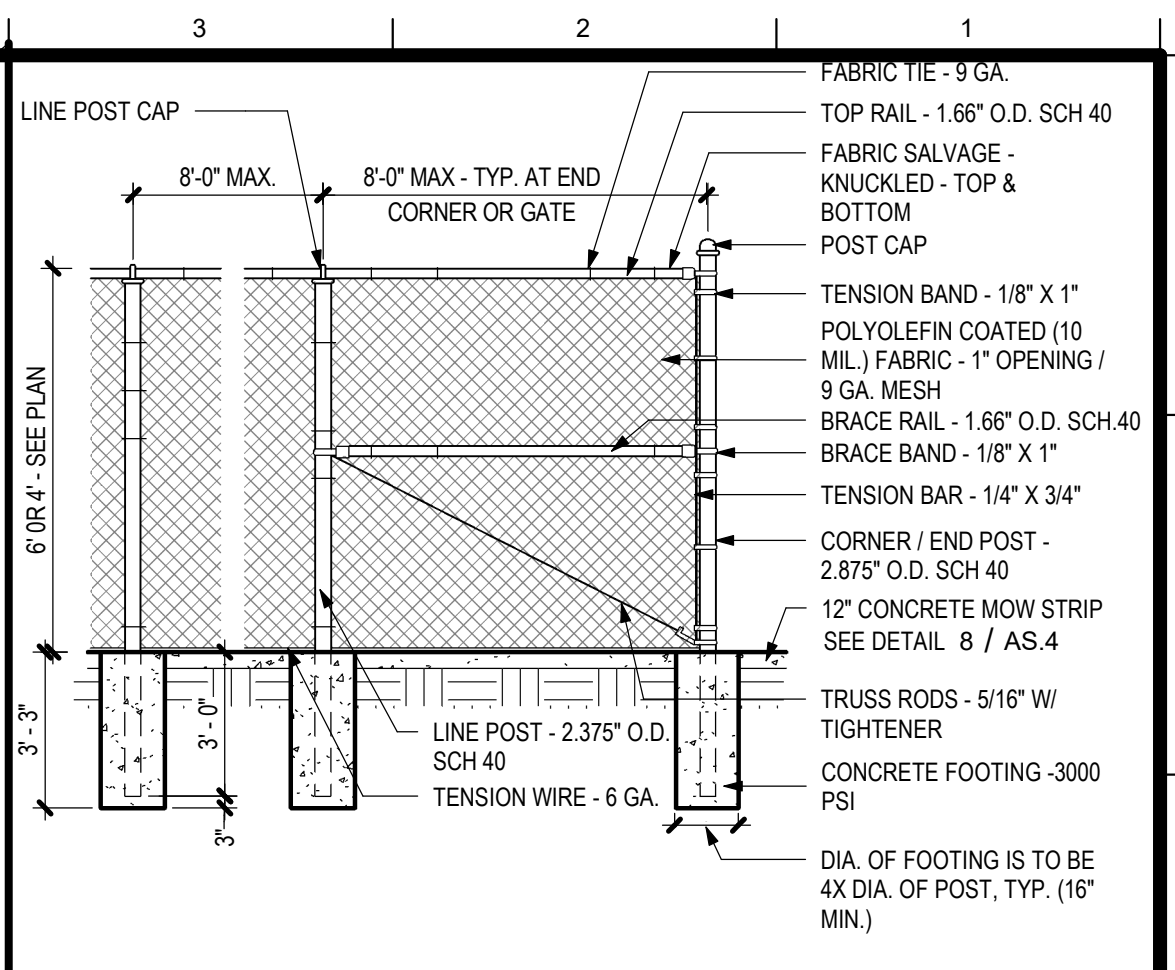
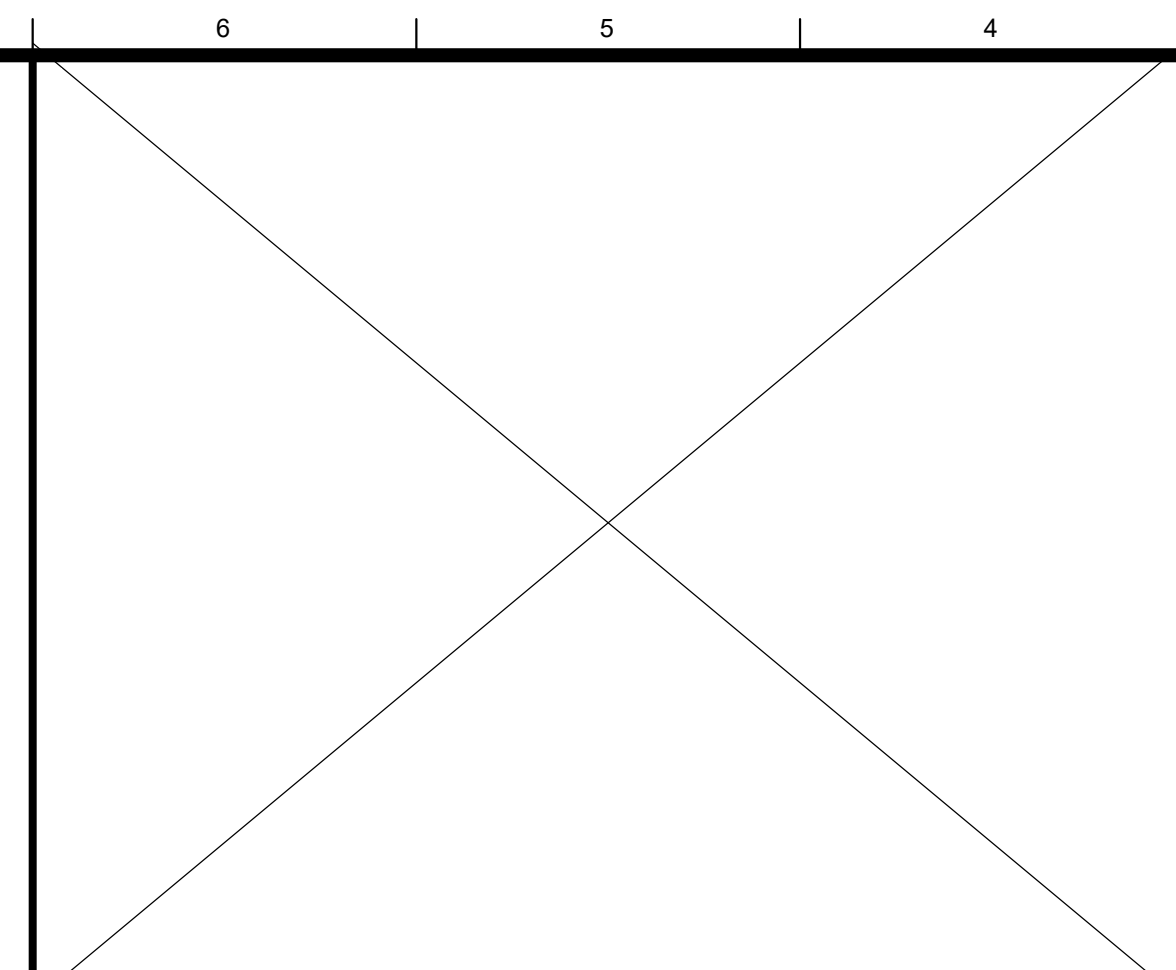
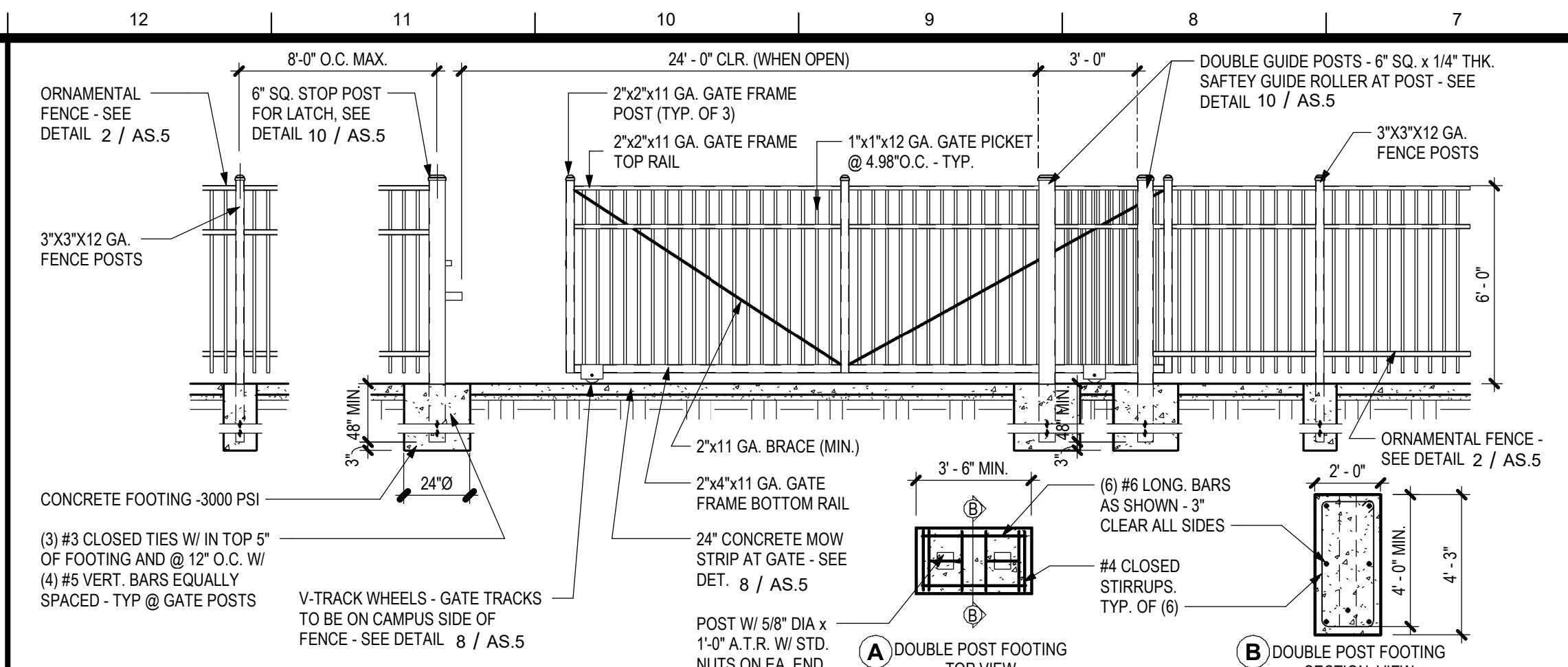
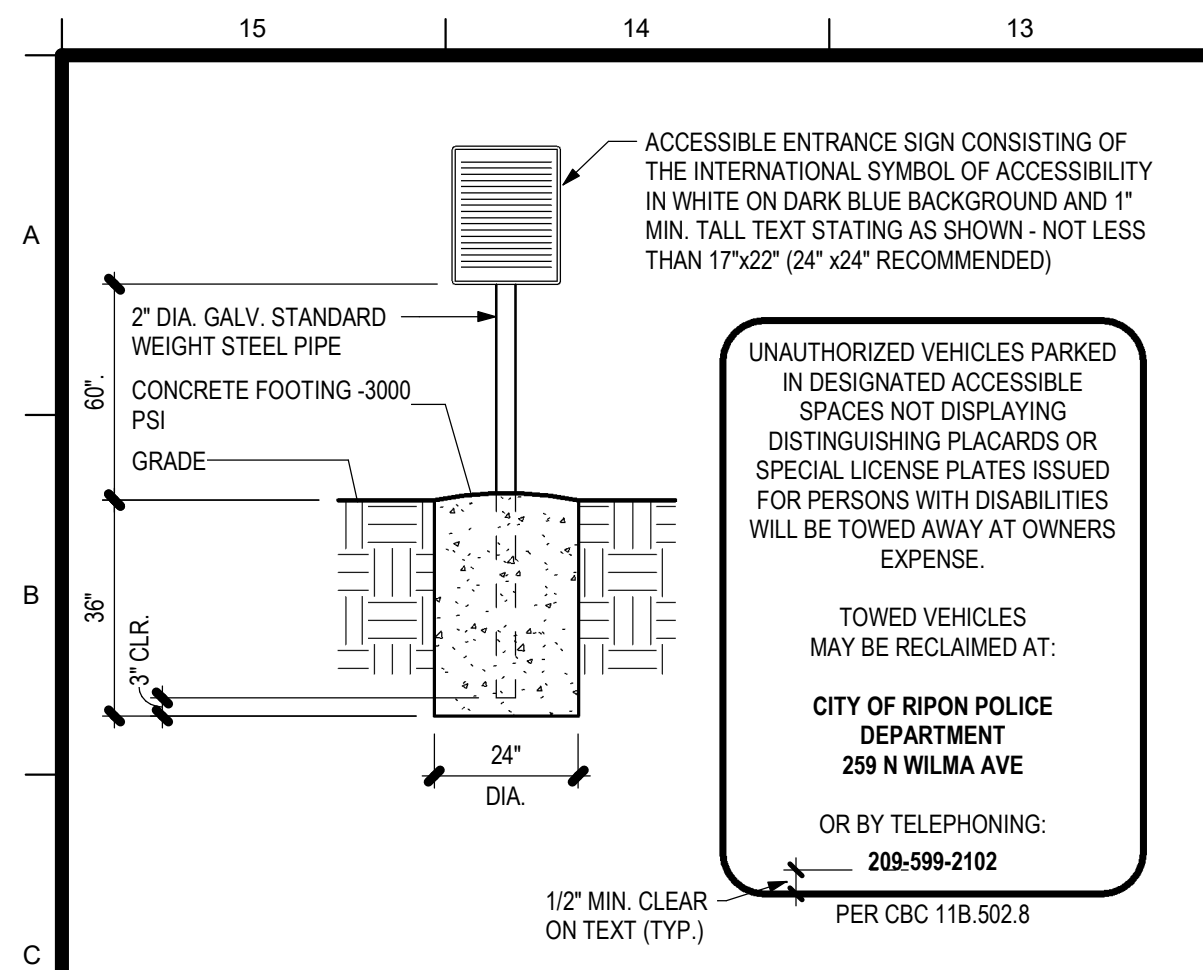
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architects
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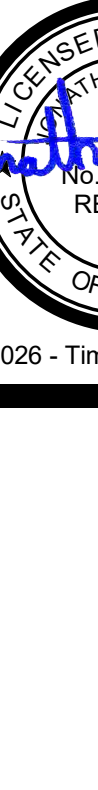

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**RIPON ELEMENTARY SCHOOL:
STAFF PARKING LOT**
509 WEST MAIN STREET
RIPON, CA 95366
RIPON UNIFIED SCHOOL DISTRICT
SITE DETAILS - FLATWORK AND PARKING

Project Number 2529
Date MARCH 2026
Drawn by PTM
Checked by JG
AS.4
Plot Date & Time 8/5/2026 9:12:19 AM



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TPH architects TIMOTHY P. HUFF & ASSOCIATES, INC. Jonathan E. Gish, AIA Architect 519 McHenry Ave., Modesto, CA 95354 Ph: (209) 571-2232 Fax: (209) 571-1936  Copyright 2016 - Timothy P. Huff & Associates									
Consultants									
RIPON ELEMENTARY SCHOOL: STAFF PARKING LOT 509 WEST MAIN STREET RIPON, CA 95386 RIPON UNIFIED SCHOOL DISTRICT	SITE DETAILS - FENCES								
<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 70%;">Project Number</td><td style="text-align: right;">2529</td></tr><tr><td>Date</td><td style="text-align: right;">MARCH 2026</td></tr><tr><td>Drawn by</td><td style="text-align: right;">PTM</td></tr><tr><td>Checked by</td><td style="text-align: right;">JG</td></tr></table>		Project Number	2529	Date	MARCH 2026	Drawn by	PTM	Checked by	JG
Project Number	2529								
Date	MARCH 2026								
Drawn by	PTM								
Checked by	JG								
AS.5									
Plot Date & Time8/5/2026 8:31:04 AM									

C:\Local\2529 Ripon Elementary Parking Lot Central_Paul.rvt

Install a Station in New Concrete

Perform the following steps to install into new concrete:

ANCHORAGE DETAIL
FOR CP6000

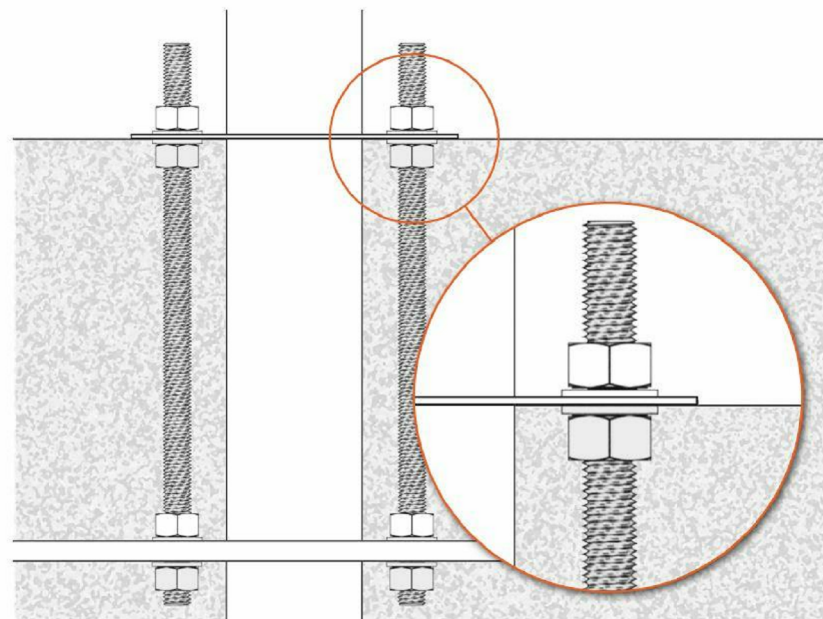
WARNING: Failure to install the ChargePointCP6000 in accordance with these instructions and all local building practices, climate conditions, safety standards, and all applicable codes and ordinances may lead to risk of death, injury, or property damage, and will void the Limited One-Year Parts Exchange Warranty.

1. Trench and excavate an opening to accommodate the wiring conduit and the concrete mounting pad that meets local codes and requirements, per site drawings.
2. Run conduit to each station as needed. If the station needs wired Ethernet access, run Ethernet conduit.
3. Build the form and lay rebar for the foundation.
 - The concrete block must measure at least 600 mm (24 in) on all sides.
 - The conduit stub-up needs to measure between 152 mm (6 in) and 590 mm (23.2 in) above the concrete surface.

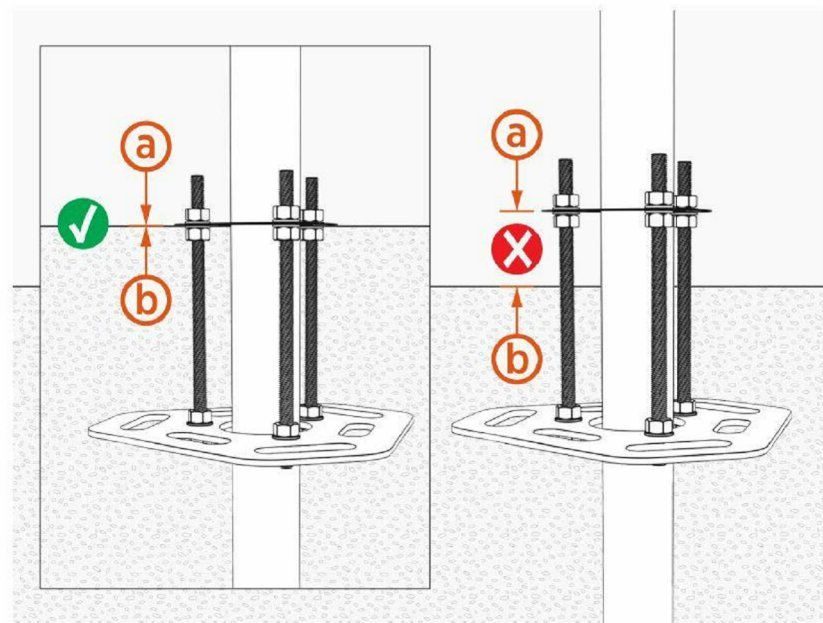
CAUTION: Ensure that the following are addressed before you proceed:

- The 600 mm (24 in) concrete base requirement applies when a new pad is poured on virgin ground. This ensures sufficient volume and strength to support the pedestal and anchoring hardware.
- It is critical that the conduits are positioned properly and plumb. The tolerance where the conduits enter the station is 2 mm (1/16 in).

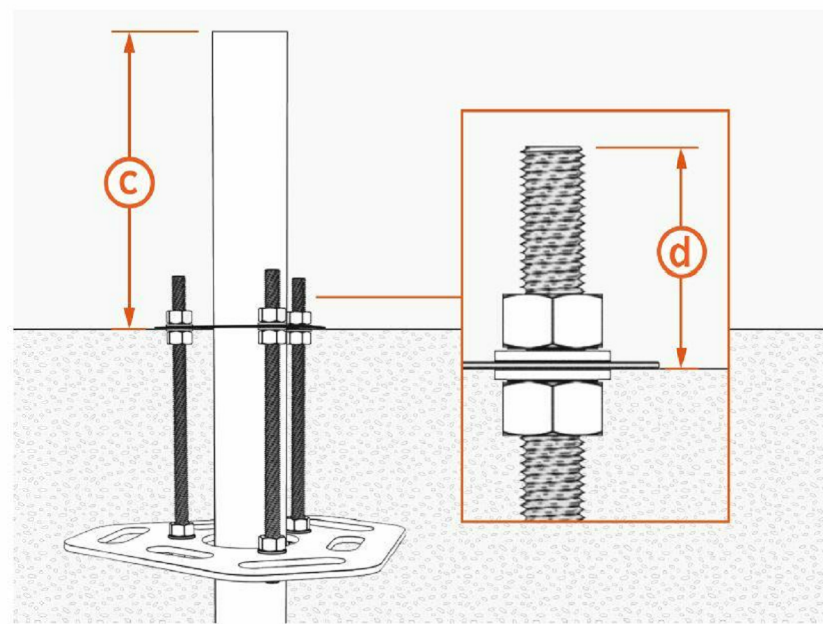
4. Align the CP6000CMT over the conduit stub-ups with the two bolts facing forward and the third bolt to the rear.
5. Slide the CP6000CMT over the conduit stub-ups until the top surface of the template is level with the top surface of the concrete when poured.



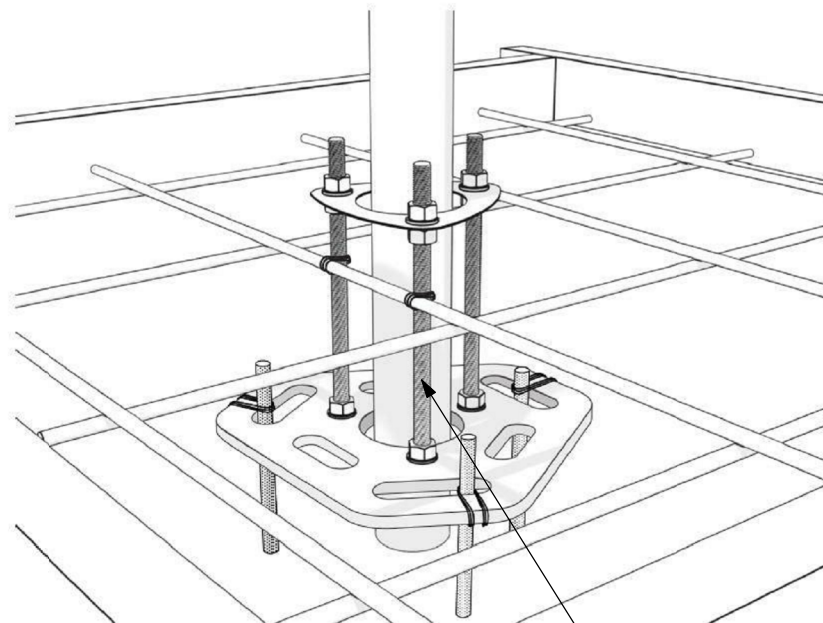
The bottom of the upper template (a) must align with the surface of the concrete (b).



6. Ensure the conduits are plumb.
7. Use a level to check that the CP6000CMT is level from front to back and from side to side.
8. Conduit height (c) must be between 456 mm (18 in) and 590 mm (23.2 in). Each bolt (d) must extend between 60 mm (2-1/2 in) and 100 mm (4 in) above the concrete surface.



9. Before pouring concrete, tie the CP6000CMT to rebar to help hold it in place.



10. Pour the concrete.

ANCHOR BOLTS TO BE CAST-IN-PLACE.
WET-SET ANCHORS NOT PERMITTED

ALL THREADED M16 X 250 (5/8" x 9.75")
ASTM F1554 GRADE 36 CARBON STEEL
HOT DIPPED GALVANIZED (HDG) BOLTS
FROM CP6000 CMT, OR EQUIVALENT J, L,
OR HEADED ANCHORS EMBEDDED 150MM
(6") MIN. INTO CONCRETE, - TYP. OF (3)

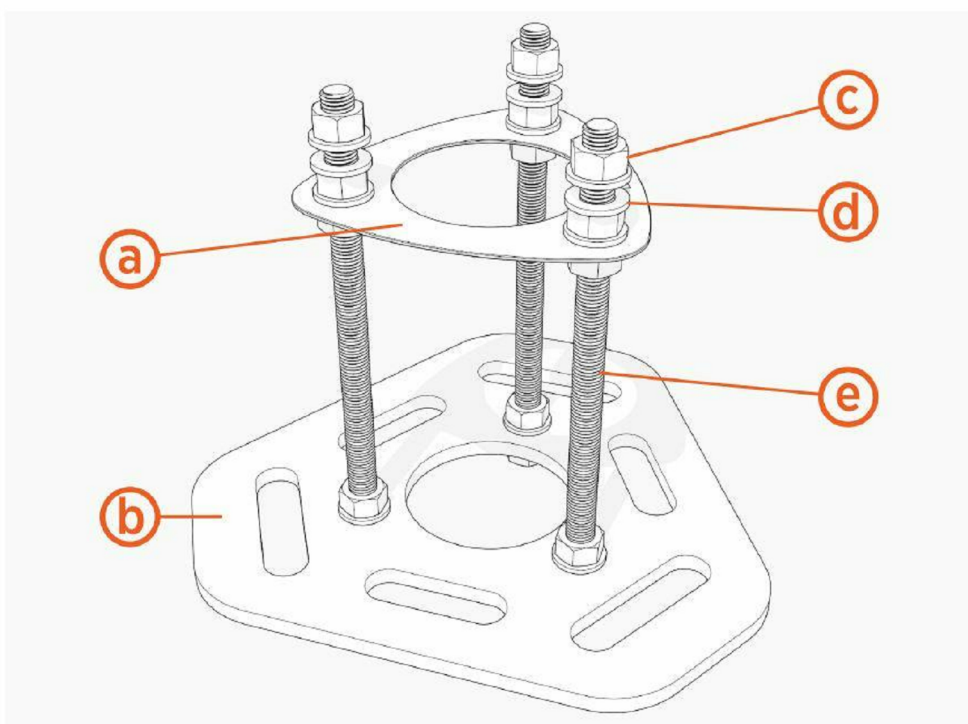
Concrete Mounting Template

ANCHORAGE DETAIL
FOR CP6000



IMPORTANT: Use a ChargePoint Concrete Mounting Template (CMT) when installing a new pedestal mount charging station or replacing an existing non-ChargePoint pedestal mount station. You do not need a CMT if you are installing a wall mount charging station or replacing an existing ChargePoint station.

Use a CMT when installing charging stations on existing concrete (on an intermediate floor only). You must order the CP6000 CMT separately, with sufficient lead time before site construction. This kit ships separately from the ChargePoint CP6000 charging station.



- (a) Upper template
(b) Lower template
(c) Nuts (x 15)
(d) Washers (x 18)
(e) Anchor bolts (x 3)

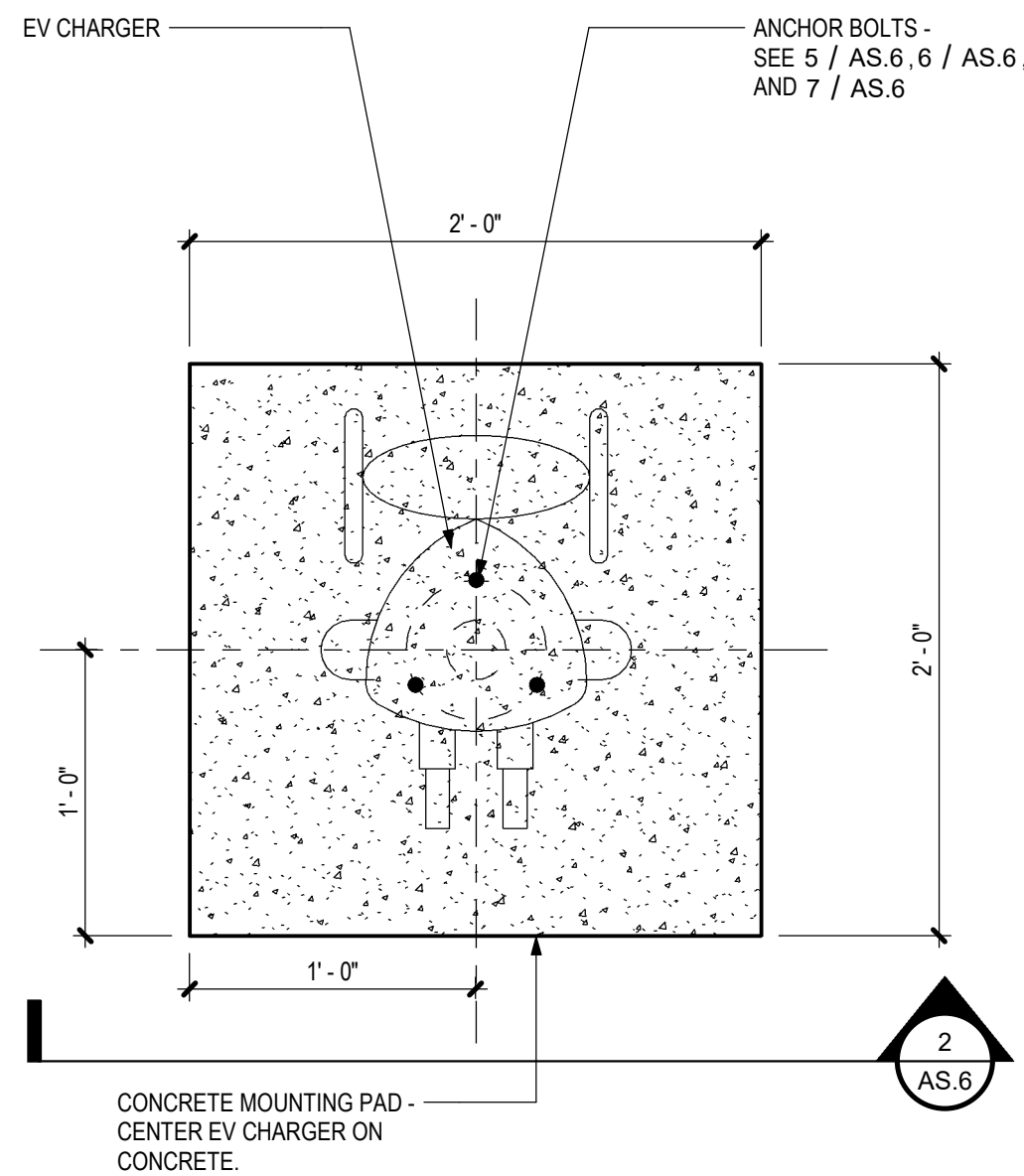
The Concrete Mounting Template kit components you need to use, the tools required, and the installation steps vary depending on the type of installation: new concrete or existing concrete.

ChargePoint® CP6000 AC Commercial Station

Specifications and Ordering Information



Dual port, pedestal mount, 18 ft cable



5 EV CHARGER ANCHORAGE 1

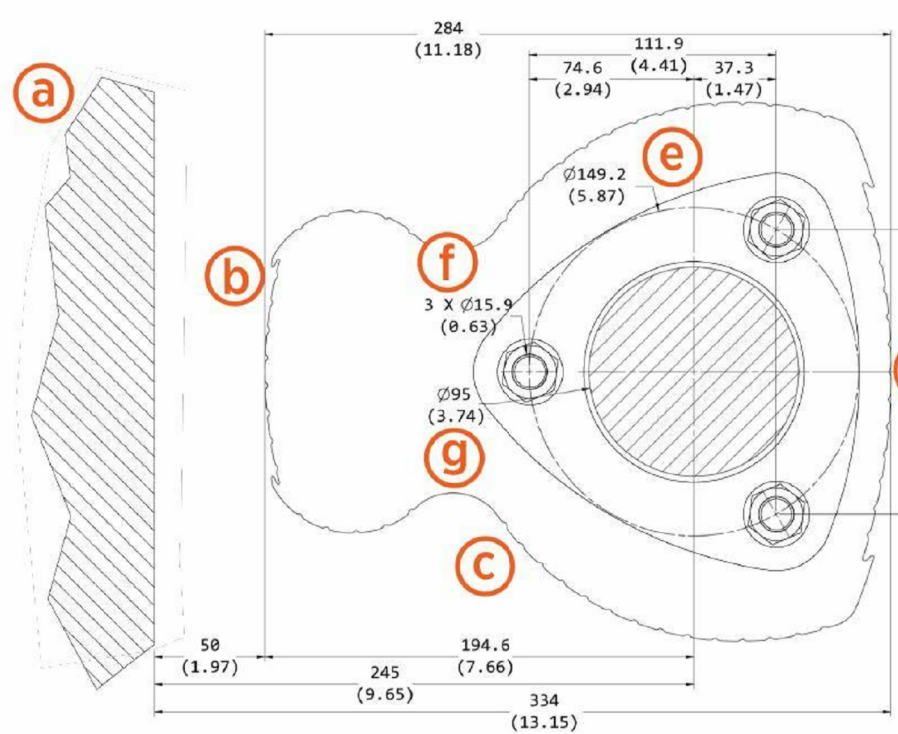
SCALE: NOT TO SCALE

Pedestal Mount Bolt Pattern

ANCHORAGE DETAIL
FOR CP6000



NOTE: Images are not to scale. Measurements appear in metric units (mm) followed by imperial equivalents (inches).



- (a) Wall
(b) CMK footprint
(c) Pedestal footprint
(d) Front
(e) Bolt circle
(f) Bolt or anchor
(g) Conduit stub-up within this area (new concrete only)

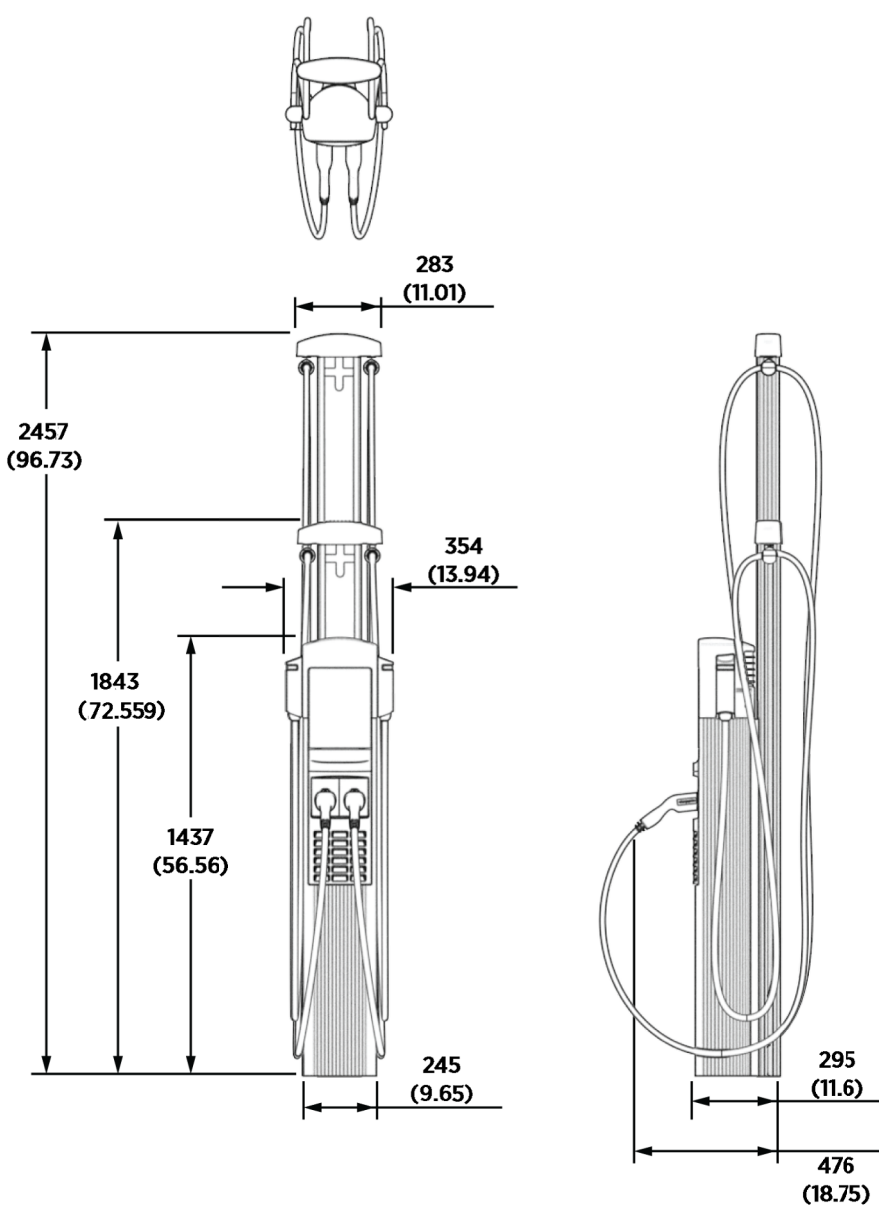
3 EV CHARGER SPECS 1

SCALE: NOT TO SCALE

Pedestal Mount



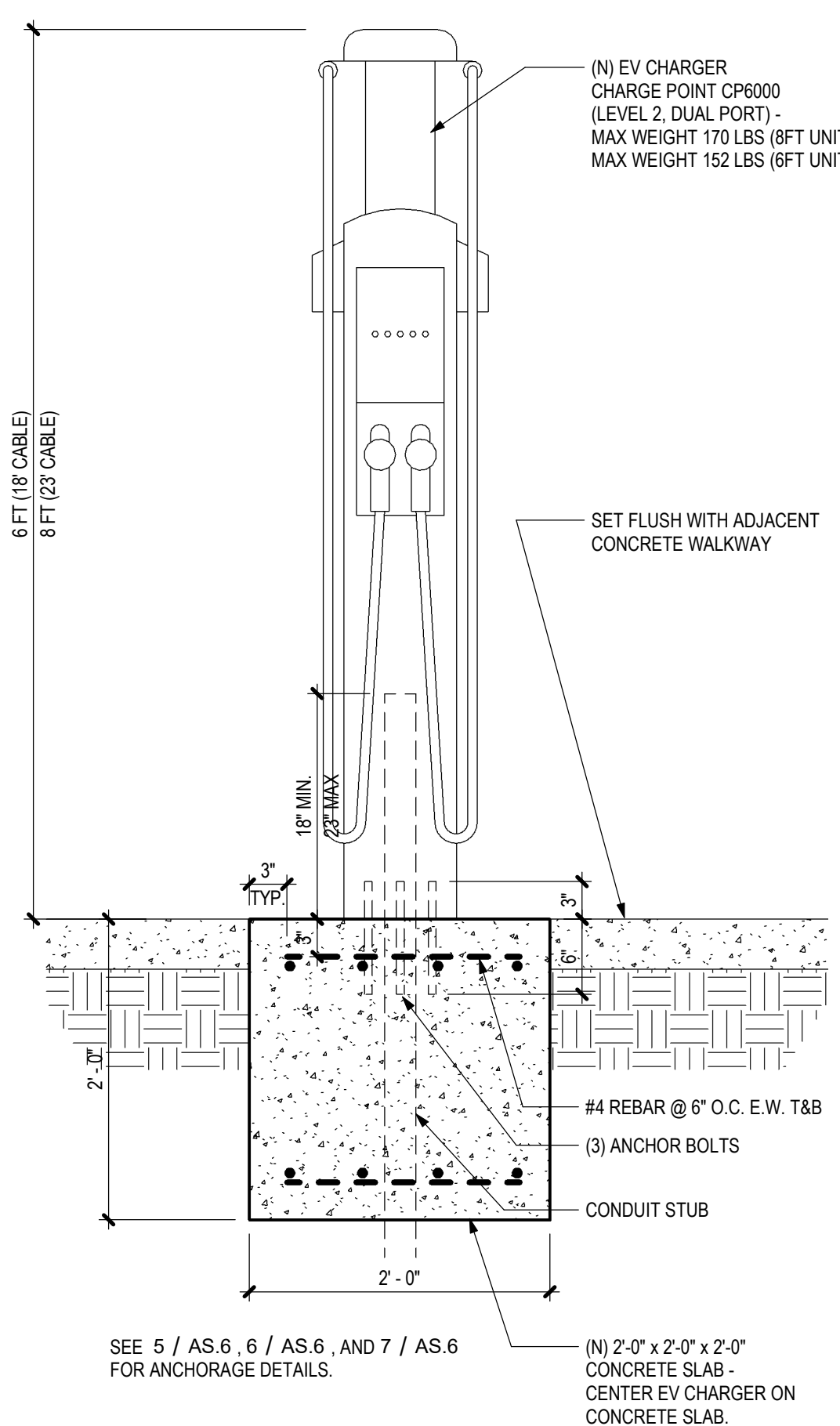
NOTE: Images are not to scale. Measurements appear in metric units (mm) followed by imperial equivalents (inches).



CP6021B-50A-L5.5 (DUAL PORT, 50A, 18FT CABLE)
CP6021B-50A-L7 (DUAL PORT, 50A, 23FT CABLE)

1 EV CHARGER LAYOUT

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



7 EV CHARGER ANCHORAGE 3

SCALE: NOT TO SCALE

6 EV CHARGER ANCHORAGE 2

SCALE: NOT TO SCALE

4 EV CHARGER SPECS 2

SCALE: NOT TO SCALE

2 EV CHARGER ELEVATION

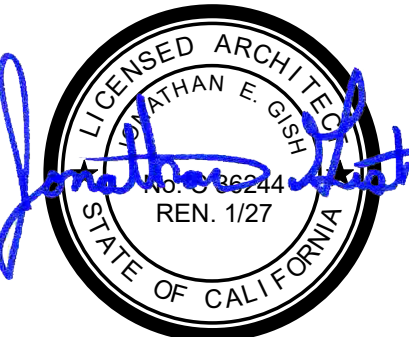
SCALE: 1" = 1'-0"

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DATE: 08/31/26

TPH
architects

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Jonathan E. Gish, AIA Architect
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**RIPON ELEMENTARY SCHOOL:
STAFF PARKING LOT**

509 WEST MAIN STREET
RIPON, CA 95366
RIPON UNIFIED SCHOOL DISTRICT
SITE DETAILS - EV CHARGER

Project Number 2529
Date MARCH 2026
Drawn by PTM
Checked by JG

AS.6

Plot Date & Time 8/12/2026 3:59:16 PM

Location:	Volts: 120/240 Single	A.I.C. Rating: 42K
Supply From:	Phases: 1	Mains Type: MCB
Mounting: FREE STANDING	Wires: 3	Mains Rating: 600 A
Enclosure: NEMA 3R		MCB Rating: 600 A

CKT	Circuit Description	Trip Rating	Number of Poles	Load	Remarks
MS2-1	PANEL EVB	300 A	2	80600 VA	
MS2-2	PANEL EVA	400 A	2	44539 VA	
MS2-3					
MS2-4					
MS2-5					
MS2-6					
MS2-7					
MS2-8					
MS2-9					
MS2-10					
MS2-11					
MS2-12					
MS2-13					
MS2-14					
MS2-15					
MS2-16					
MS2-17					
MS2-18					
MS2-19					
MS2-20					

Total Conn....	125138 VA
Total Amps:	521 A

Location:	Volts: 120/240 Single	A.I.C. Rating: 22K
Supply From: MAIN SERVICE	Phases: 1	Mains Type: MLO
Mounting: Surface	Wires: 3	Mains Rating: 300 A
Enclosure: NEMA 3R		MCB Rating: 300 A

[illegible]

Total Load:	22269 VA	22269 VA
Total Amps:	186 A	186 A

Location:	Volts: 120/240 Single	A.I.C. Rating: 22K
Supply From: MAIN SERVICE	Phases: 1	Mains Type: MLO
Mounting: Surface	Wires: 3	Mains Rating: 400 A
Enclosure: NEMA 3R		MCB Rating: 400 A

[illegible]

Total Load:	40300 VA	40300 VA
Total Amps:	336 A	336 A



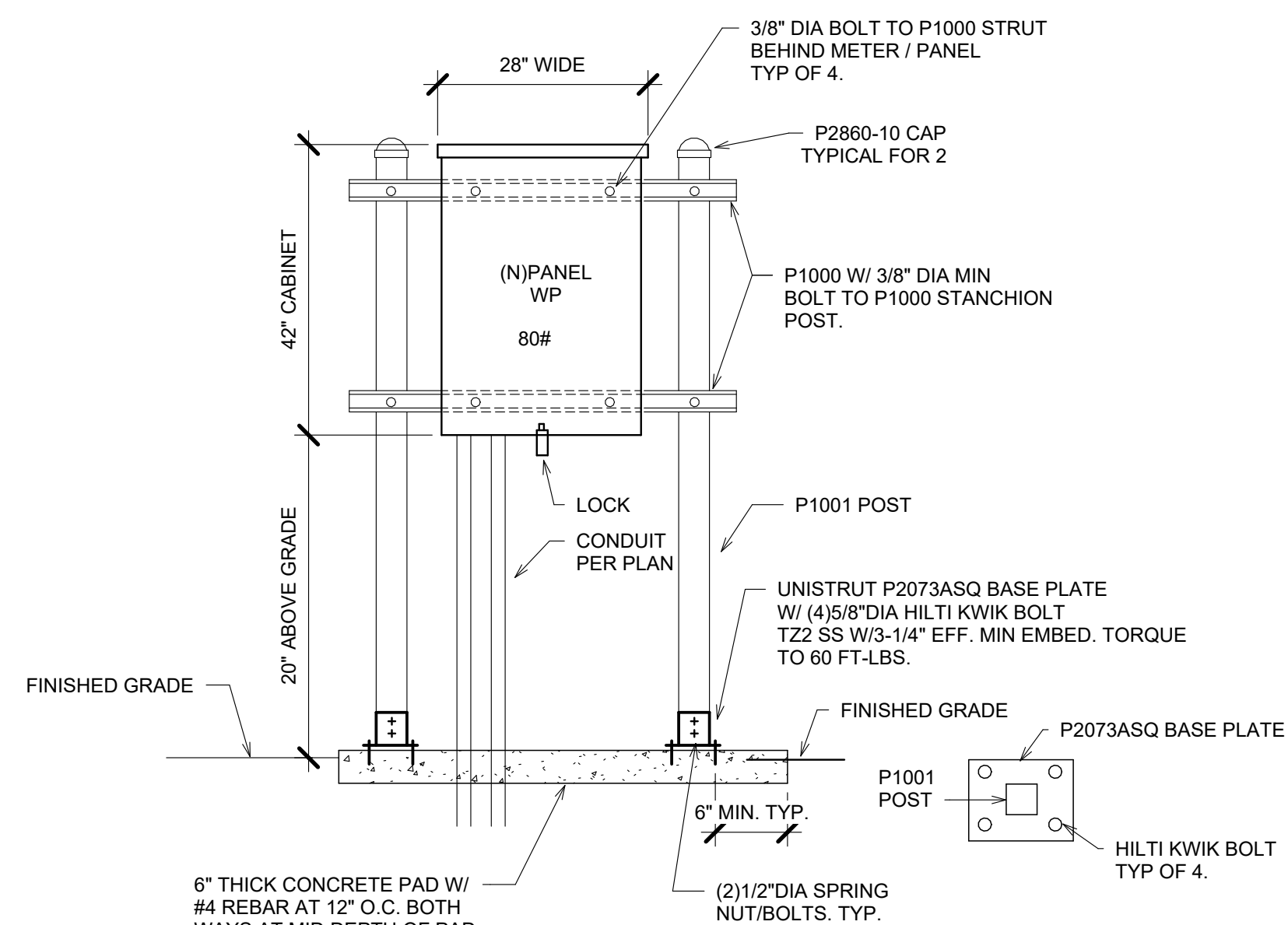
1. ALL DIMENSIONS ARE NOMINAL.
2. THE COMPLETE SWITCHBOARD SHALL HAVE A SYMMETRICAL SHORT CIRCUIT RATING EQUAL TO OR GREATER THAN THAT AVAILABLE FROM THE UTILITY COMPANY.
3. MINIMUM INTERRUPTING C.C. RATING OF SWITCHBOARD AND FEEDER CIRCUIT BREAKERS TO BE 65Kv, 800 AMP.
4. BOLT SECTIONS OF THE SWITCHBOARD TOGETHER WITH 1/2" BOLT AND NUTS AT 4 PLACES PER SECTION.
5. BOLT EMBED SECTION OF SWITCHBOARD TO SLAB WITH (4) 1/2" DIA HILTI KWIK-BOLT T22 STAINLESS STEEL ANCHORS. MINIMUM EMBED = 3 3/4" WITH 4" MINIMUM DISTANCE TO EDGE OF CONCRETE SLAB.



SCALE: NTS



SCALE: NTS



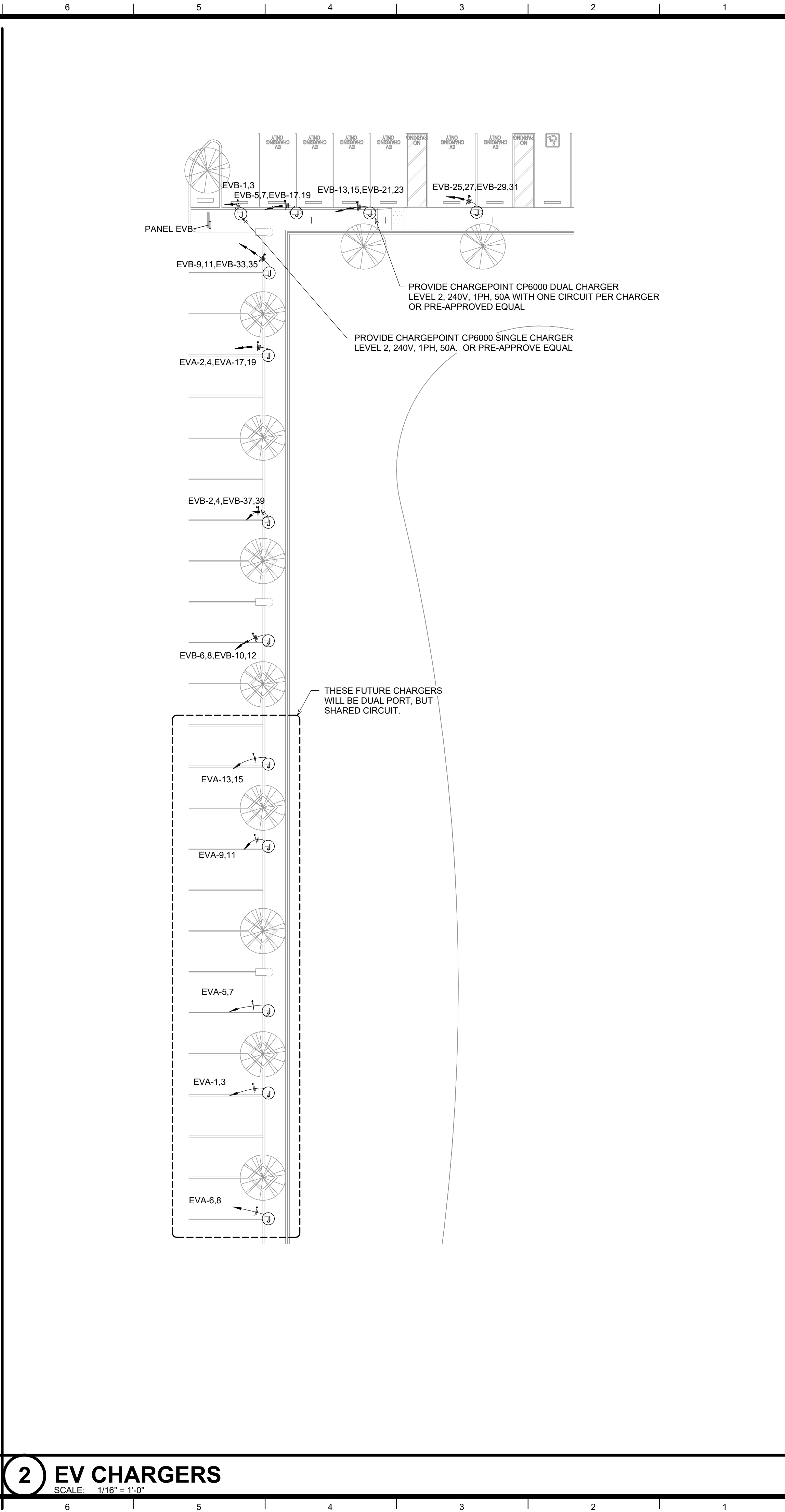
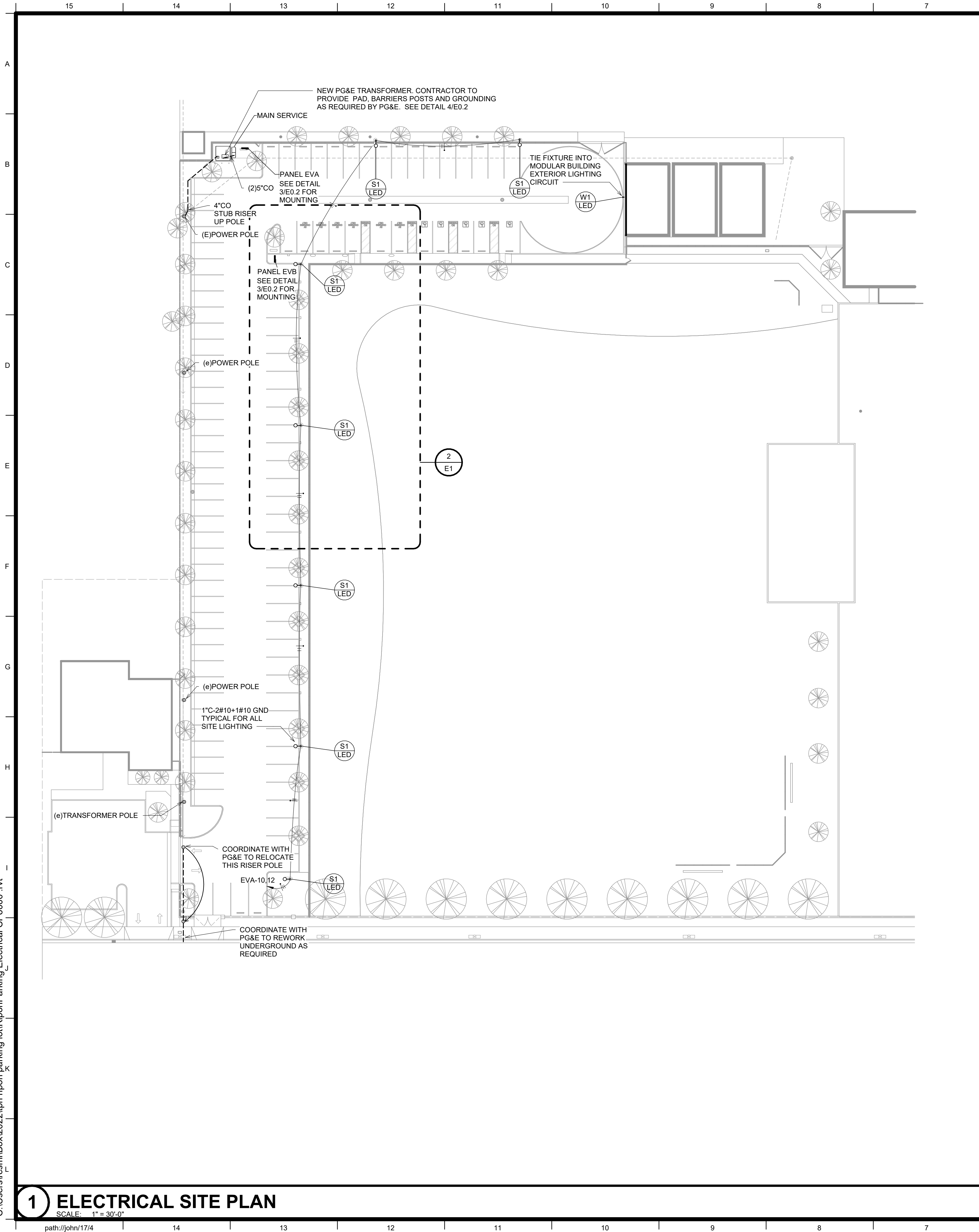
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Consultants

ELECTRICAL DETAILS

Plot Date & Time	6/29/2026 2:20:45 PM
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C:\Users\ircsm\Box\2022\lph ripon parking lot\lphonParking Electrical CP6000.rvt





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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-ELC-E

Project Name: RIPON PARKING LOT

Report Page: (Page 3 of 5)

Date Prepared: 2/9/2026

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
MS2					
Lighting including exit, egress and exterior	All lighting disaggregated by floor, type or area	Method 4: Complete metering system measures and reports loads by type	E1	☐	☐
Charging stations for electrical vehicle	All loads in aggregate	Method 4: Complete metering system measures and reports loads by type	E1	☐	☐

* 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)4Bvii.

01	02	03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Location of Voltage Drop Calculations ¹	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
				Pass	Fail

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Report Version: 2025.0.000

Schema Version: rev 20250101

Compliance ID: EPR-8039-0226-0002

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-ELC-E

Project Name: RIPON PARKING LOT

Report Page: (Page 2 of 5)

Date Prepared: 2/9/2026

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)	AND	Electric Ready §160.9 (See Table J)	Compliance Results
Yes	AND	Yes	AND	Yes	AND				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: EnergyPro

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance

Report Version: 2025.0.000

Schema Version: rev 20250101

Compliance ID: EPR-8039-0226-0002

Report Generated: 2026-02-09 09:12:41

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-ELC-E

Project Name: RIPON PARKING LOT

Report Page: (Page 4 of 5)

Date Prepared: 2/9/2026

H. VOLTAGE DROP

MS2

☐

Voltage drop less than 5%

☒

Permitted by CA Elec Code (Exception to 130.5(c))*

Attached

E0.2

☐

☐

* NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.

MS2

Exception

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".

J. ELECTRIC READY BUILDINGS

This section does not apply to this project.

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

NRCC-ELC-E - Must be submitted for all buildings

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Compliance ID: EPR-8039-0226-0002

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-ELC-E

Project Name: RIPON PARKING LOT

Report Page: (Page 5 of 5)

Date Prepared: 2/9/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Richard Smith, PE

Documentation Author Signature: Richard Smith, PE

Company: HCS Engineering, Inc.

Address: 4512 Feather River Dr #F

City/State/Zip: Stockton CA 95219

Signature Date: 2026-02-09

CA/ADA/ECC Certification Identification (if applicable): E14303

Phone: 2094788270

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: RICHARD SMITH, PE

Responsible Person Signature: Richard Smith, PE

Responsible Person Scope: Company: HCS ENGINEERING, INC

Date Signed: 2026-02-09

Address: 4512 FEATHER RIVER DR #F

License: E14303

City/State/Zip: STOCKTON CA 95219

Phone: 2094788270

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance

Report Version: 2025.0.000

Schema Version: rev 20250101

Compliance ID: EPR-8039-0226-0002

Report Generated: 2026-02-09 09:12:41

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APP: 02-124175 INC:

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 08/31/26

TPH

architects

TIMOTHY P. HUFF & ASSOCIATES, INC.

Timothy P. Huff, AIA Architect

519 McHenry Ave., Modesto, CA 95354

Ph: (209) 571-2232 Fax: (209) 571-1936

LICENSED ARCHITECT

ATTHAN E. GRIFFIN

NO. C 90244

REN. 1/27

STATE OF CALIFORNIA

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HCS

Engineering inc.

50 years

4512 Feather River Dr #F, Stockton, CA 95219

209-478-8270 | www.hcs-eng.com

REGISTERED PROFESSIONAL ENGINEER

RICHARD C. SATTER

No. E14303

Exp. 6-30-27

ELECTRICAL

STATE OF CALIFORNIA

Consultants

RIPON ELEMENTARY PARKING LOT

509 WEST MAIN STREET

RIPON, CA 95366

RIPON UNIFIED SCHOOL DISTRICT

COMPLIANCE

Project Number 2017.xxx

Date 4.6.2026

Drawn by Author

Checked by Checker

ET24A

Plot Date & Time 4/21/2026 1:47:30 PM

C:\Users\rcsml\Box\2022\1ph ripon parking lot\RiponParking Electrical v2.rvt

path://john/17/4

151413121110987654321

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Outdoor Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: RIPON PARKING LOT

Report Page: (Page 3 of 7)

Date Prepared: 2/9/2026

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 (i.e. existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire ^{1,2}	How is Wattage determined	Total Number Luminaires ³	Luminaire Status 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 Fail
S1	LED LIGHT STANDARD	☐ Linear	171	Mfr. Spec	7	New		☐	☐
W1	WALL PACK	☐ Linear	71	Mfr. Spec	1	New		☐	☐
Total Design Watts:							1268		

* 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)
* FOOTNOTES: Authority Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per §130.0(c) / §160.5(b)
¹ 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.
² 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.
³ Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b) / §160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Outdoor Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: RIPON PARKING LOT

Report Page: (Page 6 of 7)

Date Prepared: 2/9/2026

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

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

NRCC-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;

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance

Report Version: 2025.0.000

Compliance ID: EPR-8039-0226-0001

Schema Version: rev 20250101

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Outdoor Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: RIPON PARKING LOT

Report Page: (Page 2 of 7)

Date Prepared: 2/9/2026

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 / §170.2(e)6 or §141.0(b)2l / § 180.2(b)4Bv										Compliance Results			
01	02	03	04	05	06	07	08	09					
General Hardscape Allowance §140.7(d)1 / §170.2(e)6 (See Table I)	+	Per Application §140.7(d)2 / §170.2(e)6 (See Table J)	+	Sales Frontage §140.7(d)2 / §170.2(e)6 (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
1,594	+	---	+	---	+	---	+	---	=	1,594	≥	1,268	COMPLIES
Shielding Compliance (See Table G for Details)													N/A
Controls Compliance (See Table H for Details)													COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

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Compliance ID: EPR-8039-0226-0001

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Outdoor Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: RIPON PARKING LOT

Report Page: (Page 5 of 7)

Date Prepared: 2/9/2026

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.

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

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									
02	03	04	05	06	07	08	09		
Area Description	Area Wattage Allowance (AWA) Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)		
PARKING LOT	41000	0.019	779	4100	0.2	615	1394		
Initial Wattage Allowance for Entire Site (Watts):							200		
Instances of Initial Wattage Allowance (LZ 0 only) ¹									
Total General Hardscape Allowance (Watts):							1594		

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: EnergyPro

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Outdoor Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: RIPON PARKING LOT

Report Page: (Page 7 of 7)

Date Prepared: 2/9/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Richard Smith, PE

Documentation Author Signature: Richard Smith, PE

Company: HCS Engineering, Inc.

Signature Date: 2026-02-09

Address: 4512 Feather River Dr #F

CEA/NAATECC Certification Identification (if applicable): E14303

City/State/Zip: Stockton CA 95219

Phone: 2094788270

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

- The information provided on this Certificate of Compliance is true and correct.
- 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)
- 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.
- 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.
- 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: RICHARD SMITH, PE

Responsible Person Signature: Richard Smith, PE

Responsible Person Scope:

Company: HCS ENGINEERING, INC

Date Signed: 2026-02-09

Address: 4512 FEATHER RIVER DR #F

License: E14303

City/State/Zip: STOCKTON CA 95219

Phone: 2094788270

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Outdoor Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: RIPON PARKING LOT

Report Page: (Page 1 of 7)

Date Prepared: 2/9/2026

A. GENERAL INFORMATION

01 Project Location (city): RIPON

02 Climate Zone: 12

04 Total Illuminated Hardscape Area (ft²): 41000

03 Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):

☐ LZ-0: Very Low - Undeveloped Parkland

☒ LZ-2: Moderate - Urban Clusters

☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval

☐ LZ-1: Low - Rural Areas

☐ LZ-3: Moderately High - Urban Areas

05 Occupancy Types within Project

• All Other Occupancies

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 / §170.2(e)6 or §141.0(b)2l / § 180.2(b)4Bv for alterations.

My Project Consists of:

01	02
☒ New Lighting System	Must Comply with Allowances from §140.7 / §170.2(e)6
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?
03	04
% of Existing Luminaires Being Altered ¹	Sum Total of Luminaires Being Added or Altered
05	06
Calculation Method	

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

* FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

Generated Date/Time:

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Outdoor Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: RIPON PARKING LOT

Report Page: (Page 4 of 7)

Date Prepared: 2/9/2026

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
PARKING LOT	Photocontrol	Provided	Provided	Pass Fail
				☐ ☐

* FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
* Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.
* Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

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APP: 02-124175 INC:

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 08/31/26

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STATE OF CALIFORNIA

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RICHARD C. SATTER

No. E14303

Exp. 6-30-27

ELECTRICAL

STATE OF CALIFORNIA

Consultants

RIPON ELEMENTARY PARKING LOT

509 WEST MAIN STREET
RIPON, CA 95366
RIPON UNIFIED SCHOOL DISTRICT

COMPLIANCE

Project Number: 2017.xxx

Date: 4.6.2026

Drawn by: Author

Checked by: Checker

ET24B

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