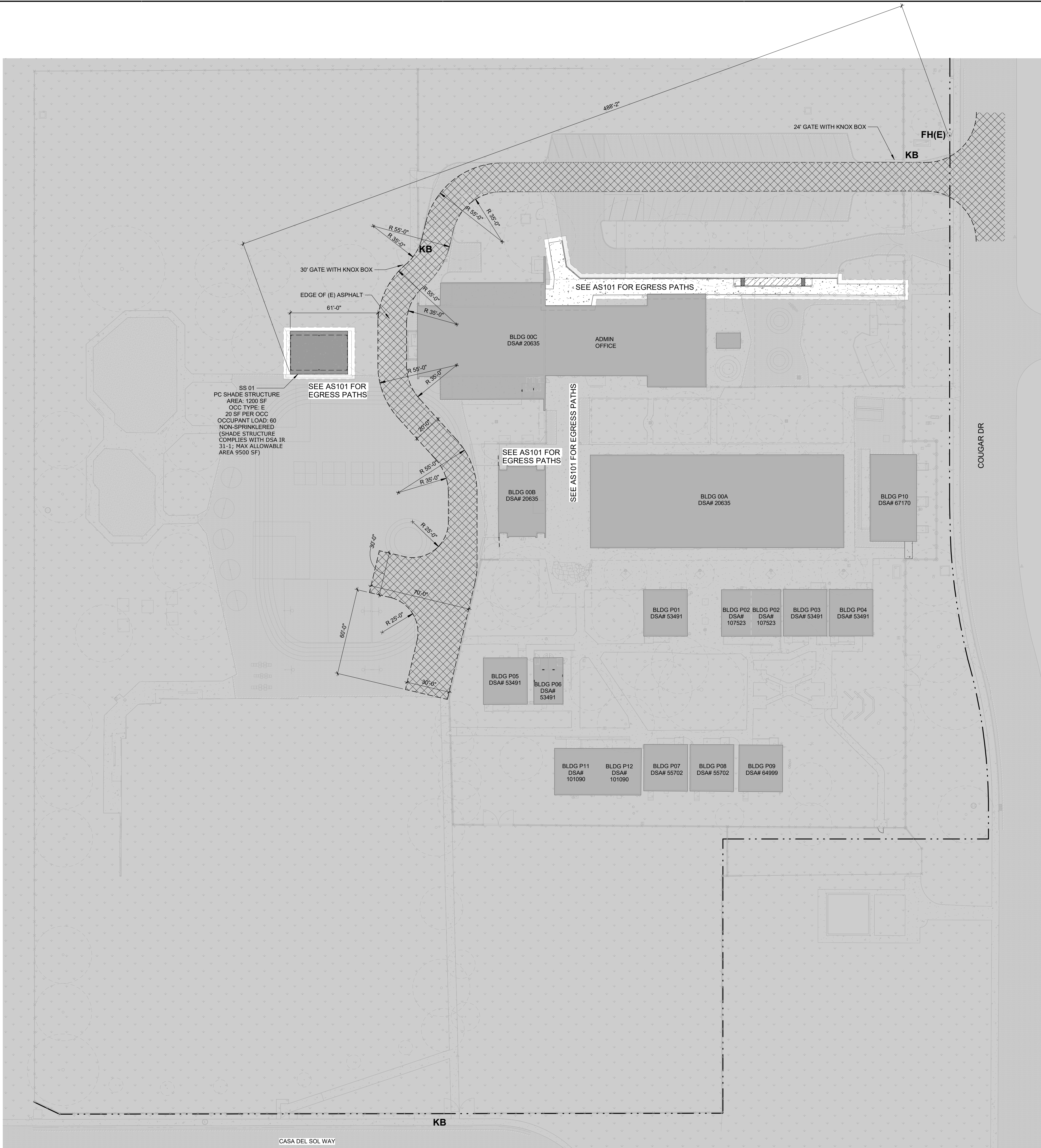


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1 SITE PLAN - FIRE ACCESS
SCALE 1" = 30'-0"

GENERAL NOTES

- SEE SHEET GA101 FOR ACCESSIBLE PATH OF TRAVEL
- DIMENSIONS GIVEN TO ASSUMED PROPERTY LINE ARE FOR CODE ANALYSIS PURPOSES ONLY AND SHALL NOT BE USED TO LOCATE BUILDINGS FOR STAKING PURPOSES. SEE CIVIL DRAWINGS FOR EXACT BUILDING LOCATIONS
- SEE AS101 FOR GROUND COVER LEGEND, FENCE TYPES, AND GATE NUMBERS

LEGEND

- SEE AS101 FOR EGRESS PATHS
- SEE AS101 FOR EGRESS PATHS
- PROPERTY LINE
- PAINTED FIRE LANE INDICATOR - AT CURB PAINT SIDES & TOP OF CURB RED STENCILLED W/ "NO PARKING FIRE LANE" IN 3" WHITE LETTERS EVERY 25'; AT LOCATIONS WITH NO CURB, PAINT 6" WIDE RED LINE W/ "NO PARKING FIRE LANE" IN 3" WHITE LETTERS EVERY 25'
- SCOPE OF WORK
- NEW BUILDING LOCATION
- (E) BUILDING LOCATION (NOT IN SCOPE)
- FIRE APPARATUS ACCESS ROAD
WIDTH CLR: 20'-0"
HEIGHT CLR: 15'-6"
TURNING RADII (INSIDE): 35'-0"
TURNING RADII (OUTSIDE): 55'-0"
- KB(E) EXISTING KNOX BOX TO REMAIN
- KB KNOX BOX
- FH(E) EXISTING FIRE HYDRANT TO REMAIN
- FH FIRE HYDRANT
- PH(E) EXISTING PANIC HARDWARE AT GATE TO REMAIN
- PH PANIC HARDWARE AT GATE

FIRE & LIFE SAFETY SITE CONDITIONS (DSA 810)

PROJECT INFORMATION		
School District/Owner: Sacramento City Unified School District		
Project Name/School: Camellia Basic Elementary School		
Project Address: 6600 Cougar Dr, Sacramento, CA 95828		
FIRE & LIFE SAFETY INFORMATION		
1. Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.)	Yes ☐	No ☒
2. Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐	No ☒
3. Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification below.)	Yes ☐	No ☒
Refer to the following website for FHSZ locations: http://regs.fire.ca.gov/FHSZ/	Moderate ☐	High ☐
Wildland Interface Area (WIFA) (If any designations are check, project design team must meet the requirements of CBC Chapter 7A.)	Very High ☐	WIFA ☐

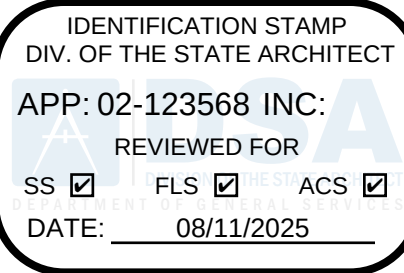
CONDITION MEANS AND METHODS RESOLUTION	Y	N	NA	NR
4. Emergency vehicle access roadways do not meet CFC requirements.				
4a. Acceptable Alternative: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.	☒			
5. Fire Hydrants: Number and spacing does not meet CFC requirements.				
5a. Acceptable Alternative: Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.	☒			
6. Fire Hydrants: Water flow and pressure are less than CFC minimum.			☒	
6a. Acceptable Alternative: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7. Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				☒
7a. Acceptable Alternative: The location of fire department connections serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates
By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: Chris Ralston Title: Assistant Superintendent, Facilities
Signature: Date: 7/29/2025

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name: Sacramento Fire Department	
LFA Review Official: King Tunson	
Title: Program Specialist	Work Phone: 916-808-1358
Work Email: klunson@sfid.cityofsacramento.org	

LFA Reviewer's Signature: Date: 05/06/2025



LIONAKIS

2025 Nineteenth Street
Sacramento, CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL



PROJECT
CAMELLIA BASIC ELEMENTARY
SCHOOL - PC SHADE STRUCTURE

6600 COUGAR DR,
SACRAMENTO, CA 95828

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47th Ave, Sacramento, CA 95824

ISSUED		
MARK	DATE	DESCRIPTION
DSA	07/29/2025	DSA APPROVAL

MANAGEMENT
LIONAKIS PROJECT NO: 025012
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TITLE
CODE ANALYSIS & FIRE
ACCESS SITE PLAN

SHEET

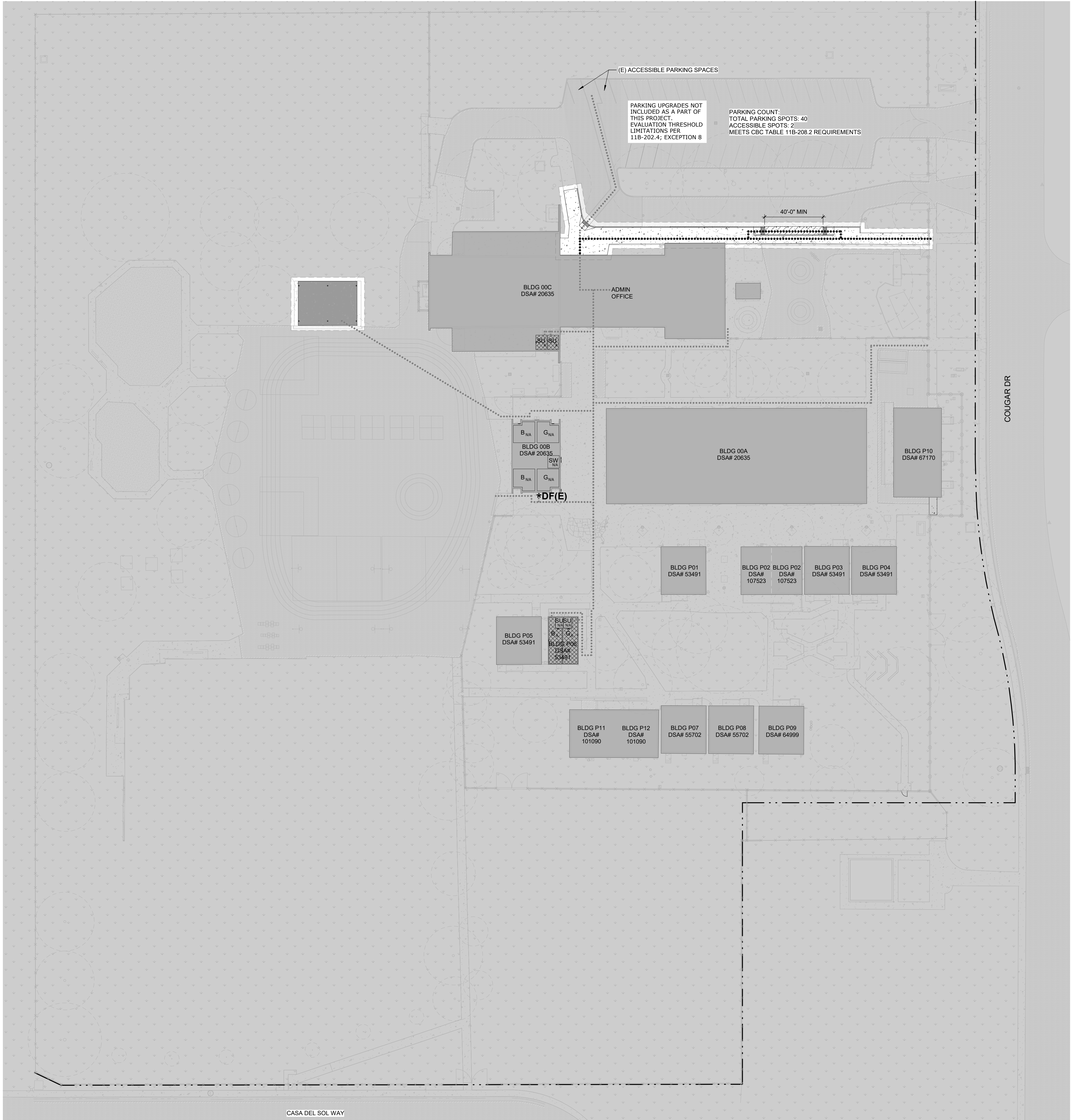
GL101

0 1/4" 1/2" 1" 2" 4" 8" 16' 32'

IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

7/26/2025 9:59:57 PM

Address: Doc: 025012.SD012.SD012.CBES.Feat02 ARCH-METR. SHADESTRUCTURE 024.CENTRAL.rvt



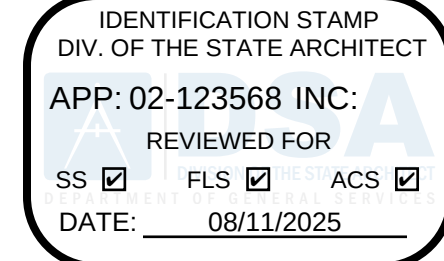
1 SITE PLAN - ACCESSIBLE
SCALE 1" = 30'-0"

GENERAL NOTES

- SEE SHEET **GL101** FOR FIRE SITE ACCESS PLAN.
- DIMENSIONS GIVEN TO ASSUMED PROPERTY LINE LOCATIONS ARE FOR CODE ANALYSIS PURPOSES ONLY AND SHALL NOT BE USED TO LOCATE BUILDINGS FOR STAKING PURPOSES. SEE CIVIL DRAWINGS FOR EXACT BUILDING LOCATIONS.
- ALL GATES ALONG SITE PATH OF TRAVEL SHALL COMPLY WITH CBC 1008.2.
- ALL WALK SURFACES IN PATH OF TRAVEL SHALL HAVE FLUSH TRANSITIONS TO ALL ADJACENT WALK SURFACES IN PATH OF TRAVEL.
- ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:12 MAXIMUM SLOPE OR VERTICAL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" WIDE SURFACE IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH. GROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO MIN 80" AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT AND CONTRACTORS SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEEN REMOVED.
- THE PATH OF TRAVEL IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE PATH OF TRAVEL WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTION OF THE PATH OF TRAVEL THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS, OR PORTION OF THE PATH OF TRAVEL THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.
- DURING CONSTRUCTION, IF PATH OF TRAVEL ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.
- SEE AS101 FOR GROUND COVER LEGEND, FENCE TYPES, AND GATE NUMBERS

LEGEND

- ACCESSIBLE PATH OF TRAVEL
- (E) ACCESSIBLE PATH OF TRAVEL (DSA # 02-100257)
- PROPERTY LINE AND LIMITS OF ARCHITECTURAL SCOPE OF WORK
- SCOPE OF WORK
- NEW BUILDING LOCATION
- (E) BUILDING LOCATION (NOT IN SCOPE)
- SM_{NA} STAFF MENS NON-ACCESSIBLE RESTROOM
TOILET UPGRADES NOT INCLUDED AS A PART OF THIS PROJECT. EVALUATION THRESHOLD LIMITATIONS PER 11B-202.4; EXCEPTION 8
- SW_{NA} STAFF WOMENS NON-ACCESSIBLE RESTROOM
TOILET UPGRADES NOT INCLUDED AS A PART OF THIS PROJECT. EVALUATION THRESHOLD LIMITATIONS PER 11B-202.4; EXCEPTION 8
- SU_{NA} STAFF UNISEX NON-ACCESSIBLE RESTROOM
TOILET UPGRADES NOT INCLUDED AS A PART OF THIS PROJECT. EVALUATION THRESHOLD LIMITATIONS PER 11B-202.4; EXCEPTION 8
- SM_{NA} STAFF MENS ACCESSIBLE RESTROOM (DSA # 02-105572)
TOILET UPGRADES NOT INCLUDED AS A PART OF THIS PROJECT. EVALUATION THRESHOLD LIMITATIONS PER 11B-202.4; EXCEPTION 8
- SW_{NA} STAFF WOMENS ACCESSIBLE RESTROOM (DSA # 02-105572)
TOILET UPGRADES NOT INCLUDED AS A PART OF THIS PROJECT. EVALUATION THRESHOLD LIMITATIONS PER 11B-202.4; EXCEPTION 8
- SU_{NA} STAFF UNISEX ACCESSIBLE RESTROOM (DSA # 02-105572)
TOILET UPGRADES NOT INCLUDED AS A PART OF THIS PROJECT. EVALUATION THRESHOLD LIMITATIONS PER 11B-202.4; EXCEPTION 8
- B_{NA} BOYS / MENS NON-ACCESSIBLE RESTROOM
TOILET UPGRADES NOT INCLUDED AS A PART OF THIS PROJECT. EVALUATION THRESHOLD LIMITATIONS PER 11B-202.4; EXCEPTION 8
- G_{NA} GIRLS / WOMENS NON-ACCESSIBLE RESTROOM
TOILET UPGRADES NOT INCLUDED AS A PART OF THIS PROJECT. EVALUATION THRESHOLD LIMITATIONS PER 11B-202.4; EXCEPTION 8
- U_{NA} STUDENT UNISEX NON-ACCESSIBLE RESTROOM
TOILET UPGRADES NOT INCLUDED AS A PART OF THIS PROJECT. EVALUATION THRESHOLD LIMITATIONS PER 11B-202.4; EXCEPTION 8
- B_{NA} BOYS / MENS ACCESSIBLE RESTROOM (DSA # 02-105572)
TOILET UPGRADES NOT INCLUDED AS A PART OF THIS PROJECT. EVALUATION THRESHOLD LIMITATIONS PER 11B-202.4; EXCEPTION 8
- G_{NA} GIRLS / WOMENS ACCESSIBLE RESTROOM (DSA # 02-105572)
TOILET UPGRADES NOT INCLUDED AS A PART OF THIS PROJECT. EVALUATION THRESHOLD LIMITATIONS PER 11B-202.4; EXCEPTION 8
- U_{NA} STUDENT UNISEX ACCESSIBLE RESTROOM (DSA # 02-105572)
TOILET UPGRADES NOT INCLUDED AS A PART OF THIS PROJECT. EVALUATION THRESHOLD LIMITATIONS PER 11B-202.4; EXCEPTION 8
- *DF(E) (E) ACCESSIBLE HI-LO DRINKING FOUNTAIN (DSA # 02-105572)
OF UPGRADES NOT INCLUDED AS A PART OF THIS PROJECT. EVALUATION THRESHOLD LIMITATIONS PER 11B-202.4; EXCEPTION 8
- PH PANIC HARDWARE AT GATES

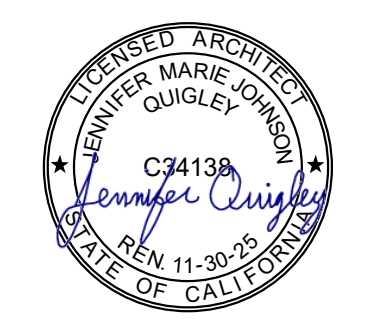


LIONAKIS

2025 Nineteenth Street
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CONSULTANT

SEAL



PROJECT
CAMELLIA BASIC ELEMENTARY
SCHOOL - PC SHADE STRUCTURE

6600 COUGAR DR,
SACRAMENTO, CA 95828

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
5735 47th Ave, Sacramento, CA 95824

ISSUED		
MARK	DATE	DESCRIPTION
DSA	07/29/2025	DSA APPROVAL

MANAGEMENT
LIONAKIS PROJECT NO: 025012
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TITLE
ACCESSIBILITY SITE
PLAN

SHEET
GA101

EXISTING TOPOGRAPHY

- = PROPERTY LINE
 - - - = CENTERLINE
 - - - = EASEMENT
 - = PROPERTY CORNER FOUND AS NOTED
 - = PROPERTY CORNER NOTHING FOUND OR SET
 - △123 = TEMPORARY BENCHMARK (SEE TBM LIST FOR INFO)
 - = SWALE OR DRAINAGE FLOW
 - = DRAINAGE FLOW
 - = FENCE (TYPE NOTED)
 - = TREE (SIZE/TYPE INDICATED)
 - = SLOPE
 - = CONTOUR
 - = CONCRETE SURFACE
 - = EDGE OF ASPHALT
 - = EDGE OF BUILDING
 - = SIGN
 - = POST OR BOLLARD
 - = GROUND ELEVATION
 - = HARD SURFACE ELEVATION
- 12"SD = STORM DRAIN LINE (SIZE & DIRECTION OF FLOW)
 - 12"SD = STORM DRAIN LINE (RECORD INFORMATION)
 - 12"SD = STORM DRAIN LINE (UNDERGROUND LOCATING)
 - = STORM DRAIN MANHOLE
 - = STORM DRAIN CLEANOUT
 - = DROP INLET
 - = AREA DRAIN
 - RWL = RAIN WATER LEADER
 - DS = DOWNSPOUT
 - 12"SS = SANITARY SEWER LINE (SIZE & DIRECTION OF FLOW)
 - 12"SS = SANITARY SEWER LINE (RECORD INFORMATION)
 - 12"SS = SANITARY SEWER LINE (UNDERGROUND LOCATING)
 - = SANITARY SEWER MANHOLE
 - = SANITARY SEWER CLEANOUT
 - W— = WATER LINE (SIZE INDICATED)
 - - -W- - - = WATER LINE (RECORD INFORMATION)
 - - -W- - - = WATER LINE (UNDERGROUND LOCATING)
 - = WATER MANHOLE
 - = WATER VALVE
 - = WATER METER
 - = WATER BOX
 - = IRRIGATION CONTROL VALVE
 - = FIRE HYDRANT
 - = BACKFLOW PREVENTER
 - = SPRINKLER
 - = HOSE BIBB
 - OH-E— = OVERHEAD ELECTRIC LINE
 - E— = UNDERGROUND ELECTRIC LINE
 - - -E- - - = UNDERGROUND ELECTRIC LINE (RECORD INFORMATION)
 - - -E- - - = UNDERGROUND ELECTRIC LINE (UNDERGROUND LOCATING)
 - = ELECTRIC MANHOLE
 - = UTILITY POLE (WITH GUY WIRE)
 - = ELECTRIC METER
 - = ELECTRIC BOX
 - = STREET LIGHTING BOX
 - OR X = LIGHT STANDARD
 - = SIGNAL LIGHT
 - = FLOOD LIGHT
 - = ELECTRICAL OUTLET
 - G— = GAS LINE (SIZE INDICATED)
 - - -G- - - = GAS LINE (RECORD INFORMATION)
 - - -G- - - = GAS LINE (UNDERGROUND LOCATING)
 - = GAS MANHOLE
 - = GAS VALVE
 - = GAS METER
 - t— = TELEPHONE LINE
 - - -t- - - = TELEPHONE LINE (RECORD INFORMATION)
 - - -t- - - = TELEPHONE LINE (UNDERGROUND LOCATING)
 - = STORM DRAIN BOX
 - = TRAFFIC SIGNAL BOX

TBM LIST

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	CPS CHISELED "+"	9999.60	10573.32	31.41
6	CPS CHISELED "+"	9936.23	10268.81	33.41
8	CPS CHISELED "+"	9858.46	10179.97	32.52
11	CPS CHISELED "+"	10160.77	9929.50	32.74
13	CPS CHISELED "+"	10282.12	10241.09	33.94
16	CPS CHISELED "+"	10229.09	10568.43	32.06

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.

AB	AGGREGATE BASE
AC	ASPHALTIC CONCRETE
AD	AREA DRAIN
APN	ASSESSOR'S PARCEL NUMBER
ARV	AIR RELEASE VALVE
ASB	AGGREGATE SUB-BASE
BO	BLOW-OFF VALVE
BV	BUTTERFLY VALVE
BW	BACK OF WALL
C/L	CENTERLINE
CB	CATCH BASIN
CJ	CONTROL JOINT
CL	CLASS
CMP	CORRUGATED METAL PIPE
CATV	CABLE TELEVISION
CO	CLEANOUT
COMM	COMMUNICATION
CONC.	CONCRETE
CONST.	CONSTRUCT
CR	CURB RETURN
DC	DOUBLE CHECK VALVE
DDC	DOUBLE DETECTOR CHECK VALVE
DG	DECOMPOSED GRANITE
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
E	ELECTRIC
EJ	EXPANSION JOINT
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EXIST	EXISTING
FS	FIRE SERVICE LINE
FDC	FIRE DEPARTMENT CONNECTION
FL	FLOWLINE
FM	SANITARY SEWER FORCE MAIN
FF	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
G	GAS
GB	GRADE BREAK
GR	GRATE FOR LOCATION
GRD	GRADE ELEVATION
GV	GATE VALVE
HB	HOSE BIBB
HBD	HEADER BOARD
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HP	HIGH POINT
INV	PIPE INVERT ELEVATION
IP	JOINT UTILITY POLE
LF	LINEAL FEET
LIP	LIP OF GUTTER
LT	LEFT
MS	MOWSTRIP
NTS	NOT TO SCALE
OH	OVERHEAD
PAD	BUILDING PAD
PCC	PORTLAND CEMENT CONCRETE
PD	PLANTER DRAIN
PIV	POST INDICATOR VALVE
P/L	PROPERTY LINE
PP	POWER POLE
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
R	RADIUS
RIM	MANHOLE RIM ELEVATION (SOLID COVER)
RP	REDUCED PRESSURE BACKFLOW PREVENTER
RW	RIGHT OF WAY
SCH	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SG	SUBGRADE ELEVATION
SS	FIRE SPRINKLER SERVICE
SSMH	SANITARY SEWER
STD	STANDARD
S/W	SIDEWALK
T	TELEPHONE
TD	TOP OF CURB
TD	TRENCH DRAIN
TDCB	TRENCH DRAIN CATCH BASIN
TP	TELEPHONE POLE
TRW	TOP OF RETAINING WALL
TSW	TOP OF SEAT WALL
TW	TOP OF WALK ELEVATION
U	UTILITY
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VCP	VITRIFIED CLAY PIPE
W	WATER
W/O	WITHOUT
WV	WATER VALVE

LEGEND

NOTE: NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.

PROPOSED GRADING & DRAINAGE SYMBOLS:

- 8"SD = STORM DRAIN LINE (SIZE AND FLOW SHOWN)
- = STORM DRAIN MANHOLE (SDMH)
- = CATCH BASIN (CB)
- = DROP INLET (DI)
- = AREA DRAIN (AD)
- = PLANTER DRAIN (PD) OR FLOOR DRAIN (FD)
- = STORM DRAIN CLEANOUT
- 99.99 = ELEVATION
- FF=100.00 = FINISHED FLOOR ELEVATION
- PAD=99.33 = BUILDING PAD ELEVATION
- = CONCRETE SIDEWALK
- = GRADED DIRECTION FOR DRAINAGE FLOW
- = SWALE
- = SLOPE
- ⊗ = TREE TO BE REMOVED
- = RETAINING WALL

PROPOSED SANITARY SEWER SYMBOLS:

- 8"SS = SANITARY SEWER LINE (SIZE AND FLOW SHOWN)
- = SANITARY SEWER MANHOLE (SSMH)
- CO = SEWER CLEANOUT FLUSHER BRANCH

PROPOSED WATER SYMBOLS:

- 8" W = WATER LINE & SIZE
- 8" FS = FIRE LINE & SIZE
- 8" DW = DOMESTIC WATER LINE & SIZE
- 8" RW = RECLAIMED WATER LINE & SIZE
- 8" IRR = IRRIGATION SERVICE LINE & SIZE
- 8" NP = NON POTABLE WATER LINE & SIZE
- 8" SP = FIRE SPRINKLER SERVICE LINE & SIZE
- = GATE VALVE
- M = WATER METER
- FH = FIRE HYDRANT ASSEMBLY
- Y FDC = FIRE DEPARTMENT CONNECTION
| DC | DETECTOR CHECK VALVE |
| DDC | DOUBLE DETECTOR CHECK VALVE |
| RP | REDUCED PRESSURE BACKFLOW PREVENTER |
| — | BUTTERFLY VALVE |
| —1" | AIR RELEASE VALVE + SIZE |
| —1" | BLOW-OFF VALVE + SIZE |
| PIV | POST INDICATOR VALVE |

DEMOLITION GENERAL NOTES

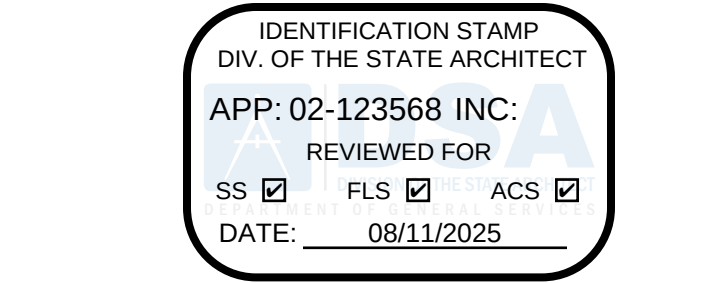
- REFER TO ARCHITECTURAL, LANDSCAPE, ELECTRICAL AND PLUMBING PLANS FOR ADDITIONAL DEMOLITION ITEMS.
- IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
- ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
- ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
- ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
- THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTENT.
- EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- EXISTING UTILITY STRUCTURES AND PIPING NOT SHOWN ON DEMOLITION PLAN TO BE REMOVED SHALL REMAIN AND BE PROTECTED.
- SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND THE NEAREST LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.
- PRIOR TO THE START OF CONSTRUCTION, VERIFY AND POT HOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.
- WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINES AND HEADS ENCOUNTERED. MAIN LINES AND CONTROL WIRES MAY ONLY BE REMOVED PROVIDED THAT ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEMS INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ENGINEER FOR DIRECTION.
- COORDINATE REMOVAL OF LANDSCAPE ITEMS WITH LANDSCAPE PLANS.

GENERAL NOTES

- THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPE, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2650, OR 811.
- WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL. IN ADDITION, ANY SUCH ERRORS IN PHYSICAL LOCATION MAY AFFECT THE INTENDED DESIGN OF SUCH IMPROVEMENTS AND CAN NOT BE HELD RESPONSIBLE FOR SUCH CONDITIONS WHICH ARE A RESULT OF ERRORS IN SURVEYING, OR IMPROPER CONSTRUCTION.
- IF SUBSURFACE CULTURAL RESOURCES, REMAINS, AND/OR ARTIFACTS ARE UNCOVERED DURING PROJECT CONSTRUCTION, ALL WORK IN THE VICINITY SHALL BE STOPPED UNTIL SUCH ITEMS CAN BE ASSESSED BY AN APPROPRIATE MEMBER OF THE COUNTY ENVIRONMENTAL IMPACT SECTION STAFF.
- CONTRACTOR AGREES THAT HE/SHE 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 SHALL NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND 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.
- THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR ALL EXCAVATIONS OF 5 FEET OR MORE IN DEPTH.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE NECESSARY PRE-CONSTRUCTION SITE REVIEWS TO DETERMINE NECESSARY MEANS AND METHODS TO COMPLETE THE IMPROVEMENTS SHOWN ON THESE PLANS.
- WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT ANY SUCH EXISTING IMPROVEMENTS OUTSIDE THE PROJECT BOUNDARY, OR EXISTING IMPROVEMENTS WITHIN THE BOUNDARY WHICH ARE TO REMAIN. PROPER PRECAUTIONS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP DETAILED RECORDS OF MINOR CHANGES OR ADJUSTMENTS MADE DURING CONSTRUCTION (WHICH WERE NOT FORMALLY ISSUED). UPON PROJECT COMPLETION, THESE RECORDS AND/OR INFORMATION SHALL BE PROVIDED TO THE OWNER AND WARREN CONSULTING ENGINEERS, INC. UNLESS AN OFFICIAL "AS-BUILT" SET OF PLANS IS A REQUIREMENT OF THE CONTRACT. IF AS-BUILT PLANS ARE A REQUIREMENT OF THE CONTRACT, REFER TO SPECIFICATIONS FOR AS-BUILT DELIVERABLE REQUIREMENTS.
- IN VEHICULAR PATHWAYS, EXISTING ASPHALTIC AND/OR CONCRETE SURFACES SHALL BE CUT TO A NEAT AND STRAIGHT LINE, PARALLEL OR PERPENDICULAR TO THE VEHICULAR TRAVELED PATH. THIS IS TYPICALLY THE ROADWAY CENTERLINE, BUT MAY VARY. THAT SAWCUT EDGE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION SO A CLEAN EDGE REMAINS FOR PATCH BACK. IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.
- NO BURNING OR BLASTING SHALL BE ALLOWED ON SITE UNLESS SPECIFICALLY ADDRESSED ON PLANS, OR SPECIFICALLY APPROVED AND COORDINATED WITH THE ARCHITECT, ENGINEER, AND LOCAL AGENCY OR OTHER ADMINISTRATIVE AUTHORITY.
- SUBGRADE AND RESULTING FINISHED GRADE SHALL BE CONSTRUCTED SMOOTH AND UNIFORM BETWEEN SPOT ELEVATIONS, CONTOURS OR OTHER STRUCTURE ELEVATIONS SHOWN ON GRADING OR OTHER PLANS. NO MOUNDS, RUTS, DEPRESSIONS OR OTHER GRADING DEFICIENCIES WILL BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS.
- ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TEE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.
- CURING COMPOUND SHALL BE APPLIED IN A CONTINUOUS SOLID WET FLOWING COAT. ANY "SPOTTY" APPLICATIONS SHALL BE RECOATED IMMEDIATELY. APPLICATION SHALL BE INSPECTED BY PROJECT INSPECTOR DURING APPLICATION.
- EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE AN ADDITIONAL SCORE OR EXPANSION JOINTS TO PREVENT UNCONTROLLED CRACKING. THOSE ADDITIONAL JOINTS MAY OR MAY NOT BE SPECIFICALLY SHOWN ON PLANS BUT SHALL BE PROVIDED BY THE CONTRACTOR.
- EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE A MINOR ADJUSTMENT OF REBAR WITHIN CONCRETE TO ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.
- NO MORE THAN 1 GALLON OF WATER PER YARD OF CONCRETE CAN BE ADDED TO THE TRUCK AFTER ARRIVAL TO PROJECT SITE. THE ADDITION OF WATER CAN ONLY BE ADDED UNDER THE SUPERVISION OF THE CONCRETE INSPECTOR OR LABORATORY TECHNICIAN.
- WHEN PUMPING CONCRETE FOR PLACEMENT, ABSOLUTELY NO WATER IS TO BE ADDED TO PUMP HOPPER. ANY WATER ADDED TO HOPPER WILL BE REASON FOR CONCRETE REJECTION AT THE CONTRACTORS EXPENSE.
- ALL CONSTRUCTION/CONSTRUCTION JOINTS "JO" SHALL BE 1/4 THE SLAB THICKNESS DEEP, BUT NO LESS THAN 1" FOR CONTROLLING OF CRACKING. CONTRACTOR SHALL EXERCISE CAUTION WHEN FINAL FLOWING OF CONCRETE SO AS NOT TO FILL IN THESE JOINTS WITH CONCRETE CREAM. ANY CRACKS OUTSIDE OF JOINTS WHICH WERE CONSTRUCTED LESS THAN 1" DEEP, SHALL BE CAUSE FOR CONCRETE SLAB(S) TO BE REMOVED AND REPLACE AT CONTRACTORS EXPENSE.
- ANY SCREED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.
- 3-1/2" FELT JOINTS WILL NOT BE ACCEPTED. PROVIDE A FULL 4" FELT JOINT FOR 4" SLAB CONSTRUCTION, AND A 6" FELT JOINT FOR A 6" SLAB CONSTRUCTION.
- SHOULD ANY SHRINKAGE CRACKS OCCUR OUTSIDE OF EITHER THE EXPANSION JOINTS OR CRACK CONTROL JOINTS, THEN THE CONCRETE SLAB SHALL BE SAWCUT AT THE NEAREST JOINTS ON EACH SIDE OF THE CRACK AND THE CONCRETE SECTION SHALL BE REMOVED AND REPLACED. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE PER DRAWING DETAIL.
- ALL AREAS DISTURBED BY GRADING OPERATIONS WHETHER SHOWN ON THE DRAWINGS OR NOT SHALL BE HYDROSEEDED UNLESS OTHERWISE NOTED. HYDRO SEEDING SHALL CONFORM TO LOCAL CITY/COUNTY STANDARDS.
- REPAIR OR PATCHING OF GALVANIZED METALS, SUCH AS AFTER WELDING GALVANIZED COMPONENTS, SHALL BE MADE USING A ZINC COMPOSITION "HOT STICK" APPLICATION PER ASTM A 780-01. GALVANIZING PAINTS WILL NOT BE ALLOWED.
- AT LIMITS OF NEW PAVEMENT OR CURBS ADJACENT TO LANDSCAPING PROVIDE A 4:1 MINIMUM TRANSITION TO EXISTING GRADE WITH TOPSOIL. ADJUST EXISTING IRRIGATION HEADS TO FINISH GRADE AND PROVIDE SOD IN GRASS AREAS TO RESTORE TO EXISTING CONDITION.
- TRANSITION BETWEEN PAVED SURFACES AND LANDSCAPE AREAS SHALL BE NO GREATER THAN 1", UNLESS NOTED OTHERWISE.
- WITHIN LIMITS OF WORK THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINES AND HEADS ENCOUNTERED. MAIN LINES AND CONTROL WIRES MAY ONLY BE REMOVED PROVIDED THAT ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEMS INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ARCHITECT FOR DIRECTION.
- GENERAL CONTRACTOR IS REQUIRED TO HIRE A LANDSCAPE SUBCONTRACTOR TO PERFORM ALL LANDSCAPE AND IRRIGATION REPAIRS.
- WIDTH OF NEW SIDEWALKS SHALL MATCH WIDTH OF EXISTING, ADJACENT, SIDEWALKS.
- SEE ARCHITECTURAL PLANS FOR EXPANSION AND CONTROL JOINT LAYOUT.
- ADJUST TO FINISH GRADE ALL UTILITY BOXES, FRAMES, COVERS SLEEVES, POST HOLES GRATES, ETC. FOUND IN AREA OF WORK, WHETHER SHOWN OR NOT. CLEAN OR REPLACE AS NECESSARY TO ENSURE PROPER SEATING.
- ALL NEW ASPHALT PAVING TO BE PROVIDED WITH 2 COATS OF SEALCOAT.
- PRIOR TO NEW SEALCOAT ON EXISTING ASPHALT SURFACES, FILL ALL CRACKS 1/4" INCHES OR WIDER WITH AN APPROVED CRACK FILLER.
- FOR ACCESSIBLE PATH OF TRAVEL REQUIREMENTS SEE ARCHITECTURAL SHEETS.
- PERCENT OF SLOPE SHOWN ON ARROWS ARE MAXIMUM SLOPES AND NOT INTENDED TO SUPERCEDE SLOPES DEFINED BY SPOT 0.0% MAX. ELEVATIONS.
- WITHIN THE LIMITS OF ACCESSIBLE PARKING AREA AND ACCESSIBLE DROP OFF ZONE THE SLOPE OF PAVEMENT SHALL NOT EXCEED 1.9% IN ANY DIRECTION.
- SLOPE OF FINISHED PAVING TO BE 1% MINIMUM FOR ASPHALT, 0.5% MINIMUM FOR CONCRETE AND THE MAXIMUM SLOPE SHALL BE AS FOLLOWS;
CROSS SLOPE PERPENDICULAR TO PATH OF TRAVEL - 1.9%
DIRECTION OF TRAVEL - 4.9%
RAMP IN DIRECTION OF TRAVEL - 8.0%
PLAZA 1.9% - IN ANY DIRECTION
- THE SLOPE AWAY FROM THE BUILDING ON PAVED SURFACES SHALL BE 1% MINIMUM AND 2% MAXIMUM.
- TRANSITIONS BETWEEN CONCRETE AND OR ASPHALT SURFACES SHALL BE FLUSH, UNLESS NOTED OTHERWISE BY CURB OR STEP.

SHEET INDEX

CD11	CIVIL GENERAL NOTES AND ABBREVIATIONS
CD101	DEMOLITION PLAN
CD102	DEMOLITION PLAN
CG101	GRADING PLAN
CG102	GRADING PLAN
CP101	PAVING PLAN
C501	DETAILS AND SECTIONS



LIONAKIS

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SEAL

PROJECT
CAMELLIA BASIC ELEMENTARY
SCHOOL - PC SHADE STRUCTURE

6600 COUGAR DR
SACRAMENTO, CA 95828

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47th Ave Sacramento, CA 95824

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MANAGEMENT

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CIVIL GENERAL NOTES
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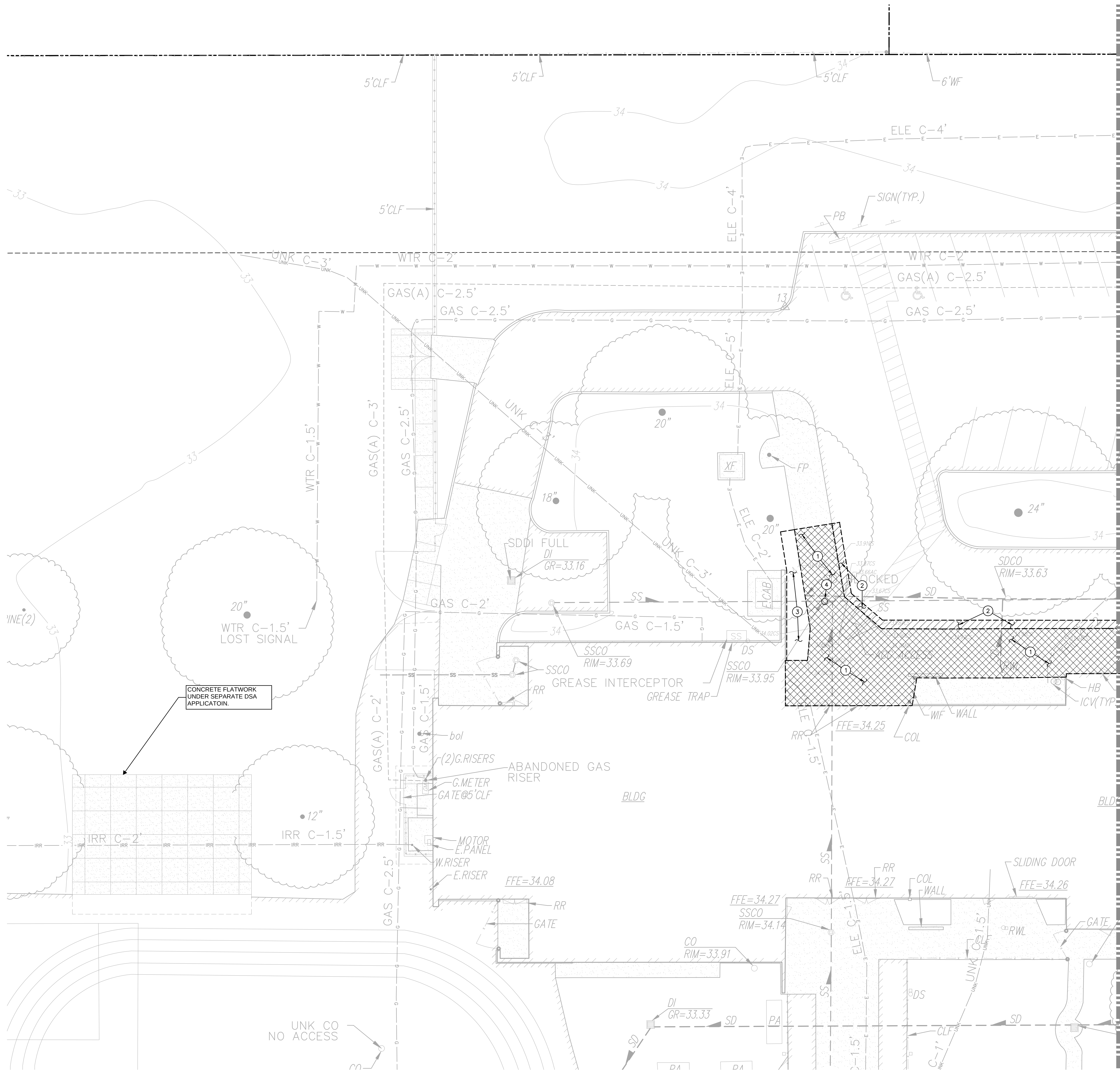
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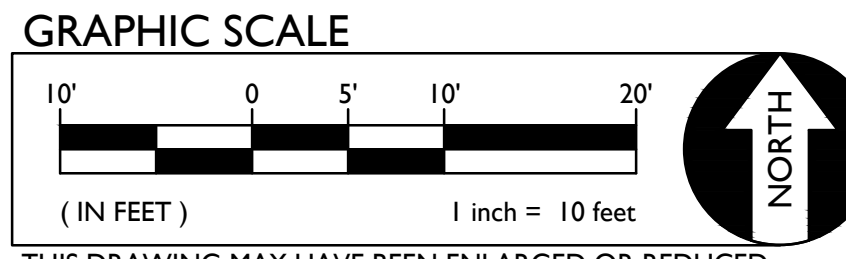
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- DEMOLITION NOTES
1. SAWCUT, REMOVE AND DISPOSE OF EXISTING CONCRETE PAVING AND ASSOCIATED AGGREGATE BASE. SAWCUT SHALL BE A NEAT STRAIGHT LINE, MAINTAIN CLEAN, STRAIGHT CUT EDGE UNTIL NEW PAVING IS PLACED.
 2. SAWCUT, REMOVE AND DISPOSE OF EXISTING ASPHALT PAVING AND ASSOCIATED AGGREGATE BASE. SAWCUT SHALL BE A NEAT STRAIGHT LINE, MAINTAIN CLEAN, STRAIGHT CUT EDGE UNTIL NEW PAVING IS PLACED.
 3. REMOVE AND DISPOSE OF EXISTING TURF/VEGETATION AND ASSOCIATED IRRIGATION/SPRINKLERS IN CONFLICT WITH NEW WORK.
 4. REMOVE EXISTING UTILITY BOX AND/OR FRAME AND COVER AND PROVIDE NEW. NEW BOX SHALL BE SIMILAR IN SIZE, BUT WITH TRAFFIC RATING AND SLIP RESISTANT COVER.



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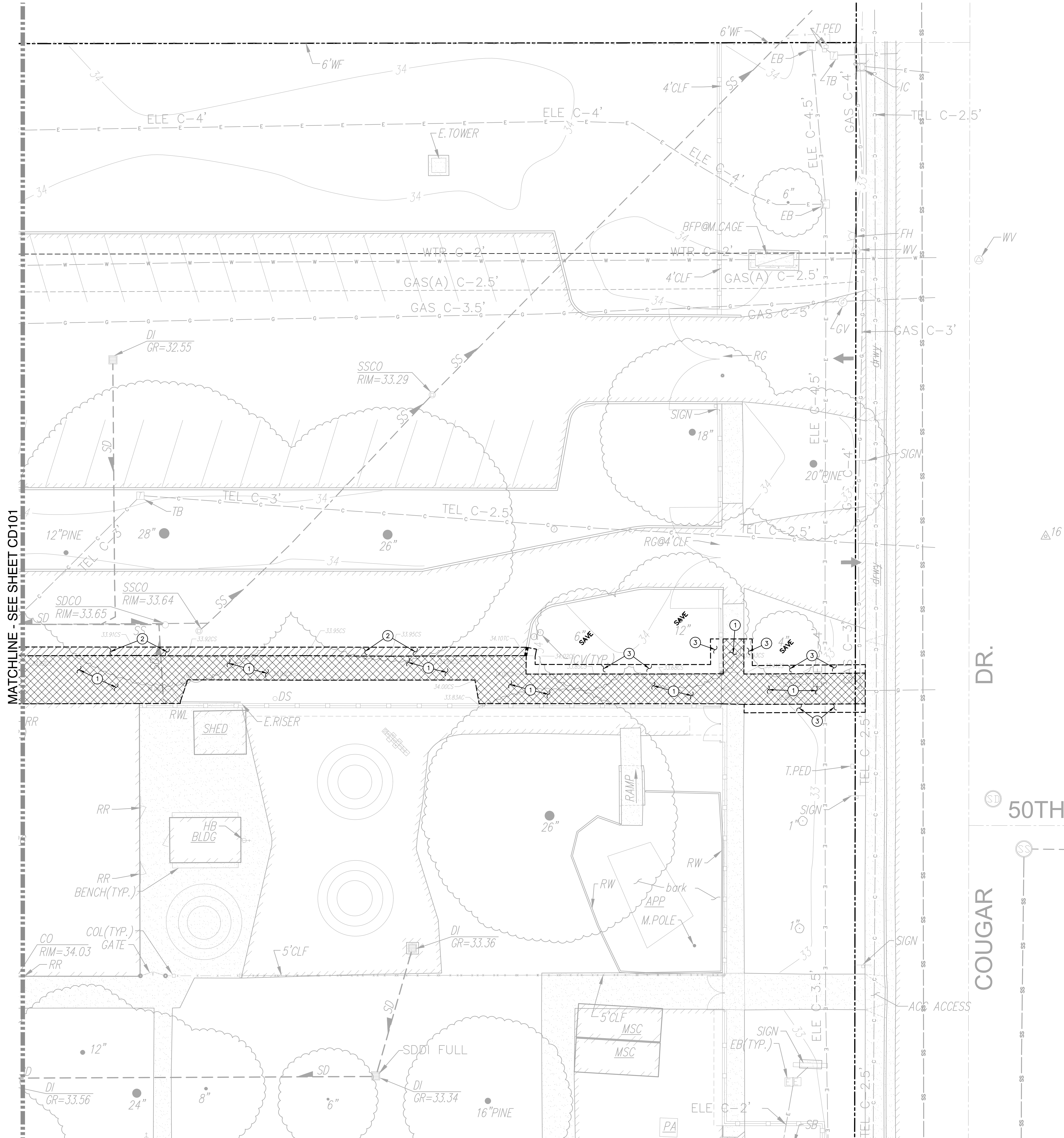
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DEMOLITION PLAN

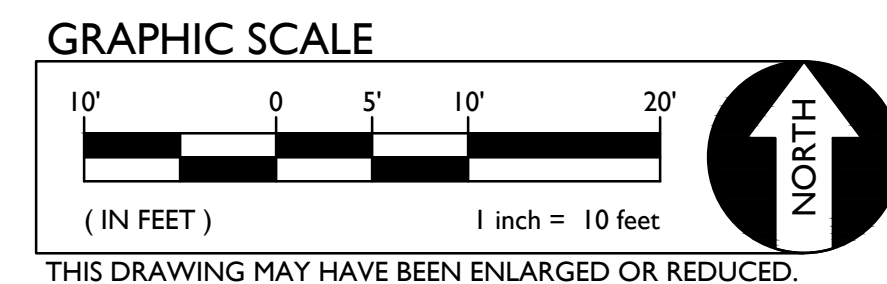
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CD101

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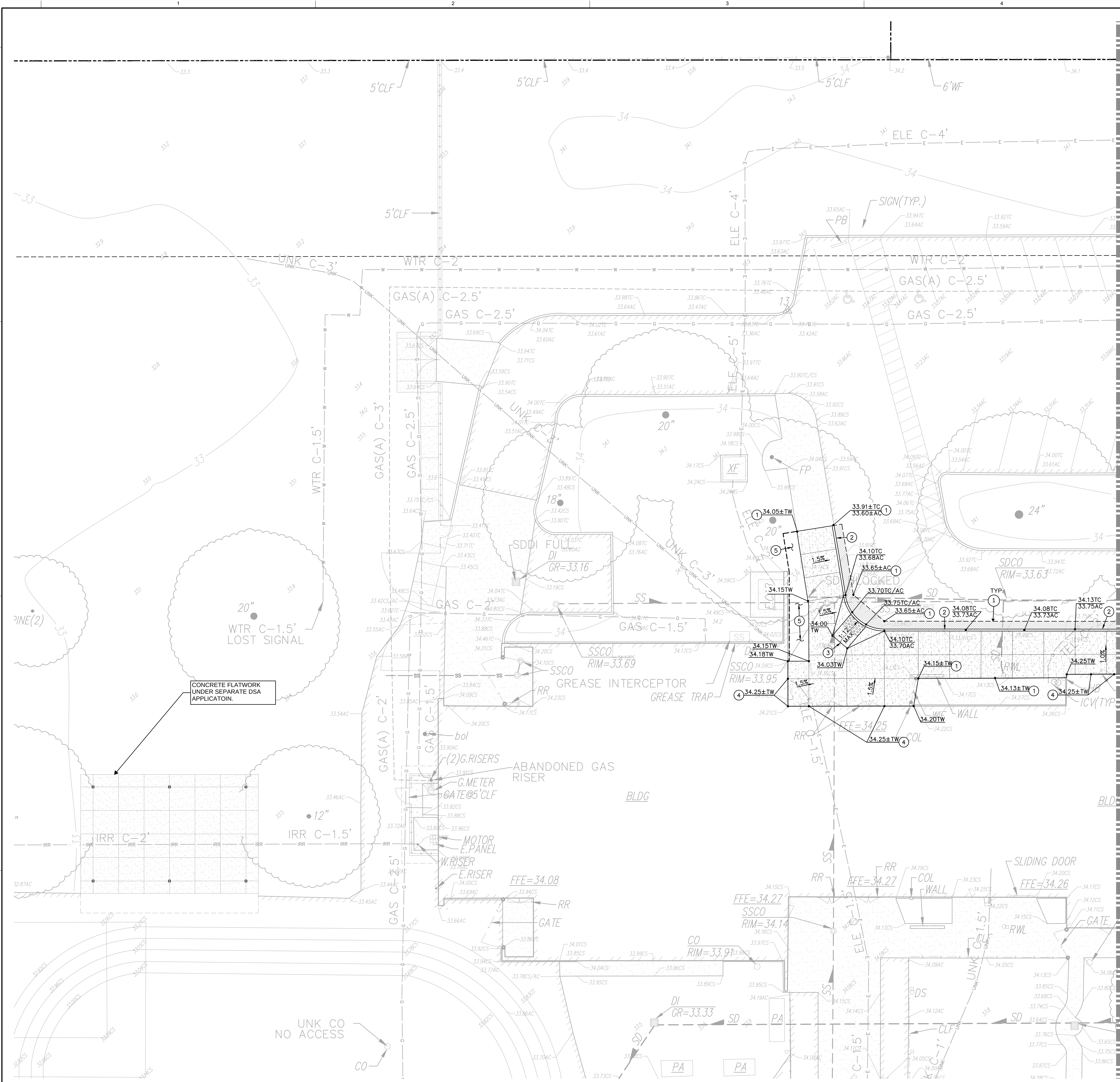
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DEMOLITION PLAN

SHEET

CD102

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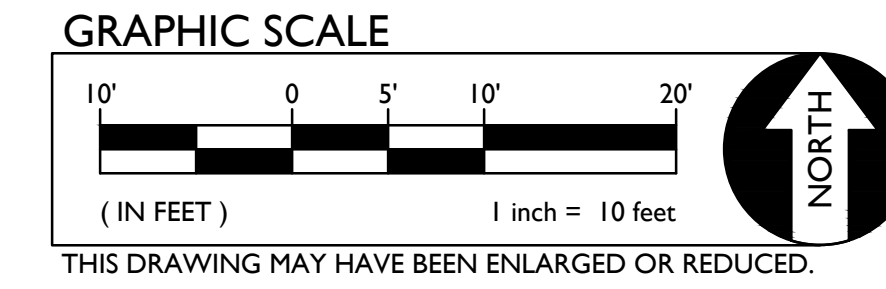


SUBGRADE PREPARATION

1. FOLLOWING SITE DEMOLITION ACTIVITIES:

FOR AREAS TO RECEIVE CONCRETE AND ASPHALT PAVING, EXCAVATE DOWN TO ROUGH SUBGRADE ELEVATION, SCARIFY THE EXISTING SOILS TO A MINIMUM DEPTH OF 8 INCHES, MOISTURE CONDITION TO AT LEAST 2 PERCENT ABOVE THE OPTIMUM MOISTURE AND COMPACT TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED BY THE ASTM D1557 TEST METHOD. UPPER 8 INCHES OF SUBGRADE BENEATH ASPHALT PAVEMENT SHALL BE COMPACTED TO 95 PERCENT.

- GRADING NOTES**
- MATCH EXISTING GRADE/ELEVATION.
 - CONSTRUCT CONCRETE CURB PER 2
C501
 - CONSTRUCT ACCESSIBLE CURB RAMP PER 3
C501
 - PROPOSED SIDEWALK ELEVATION SHALL NOT BE MORE THAN 1/4" BELOW EXISTING FINISH FLOOR ELEVATION.
 - TURF/MULCH DAMAGED AND/OR REMOVED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED WITH SOD AND/OR MATCHING MULCH. SPRINKLERS REMOVED/DAMAGED SHALL BE REPLACED TO ALLOW FOR PROPER IRRIGATION COVERAGE.



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GRADING PLAN

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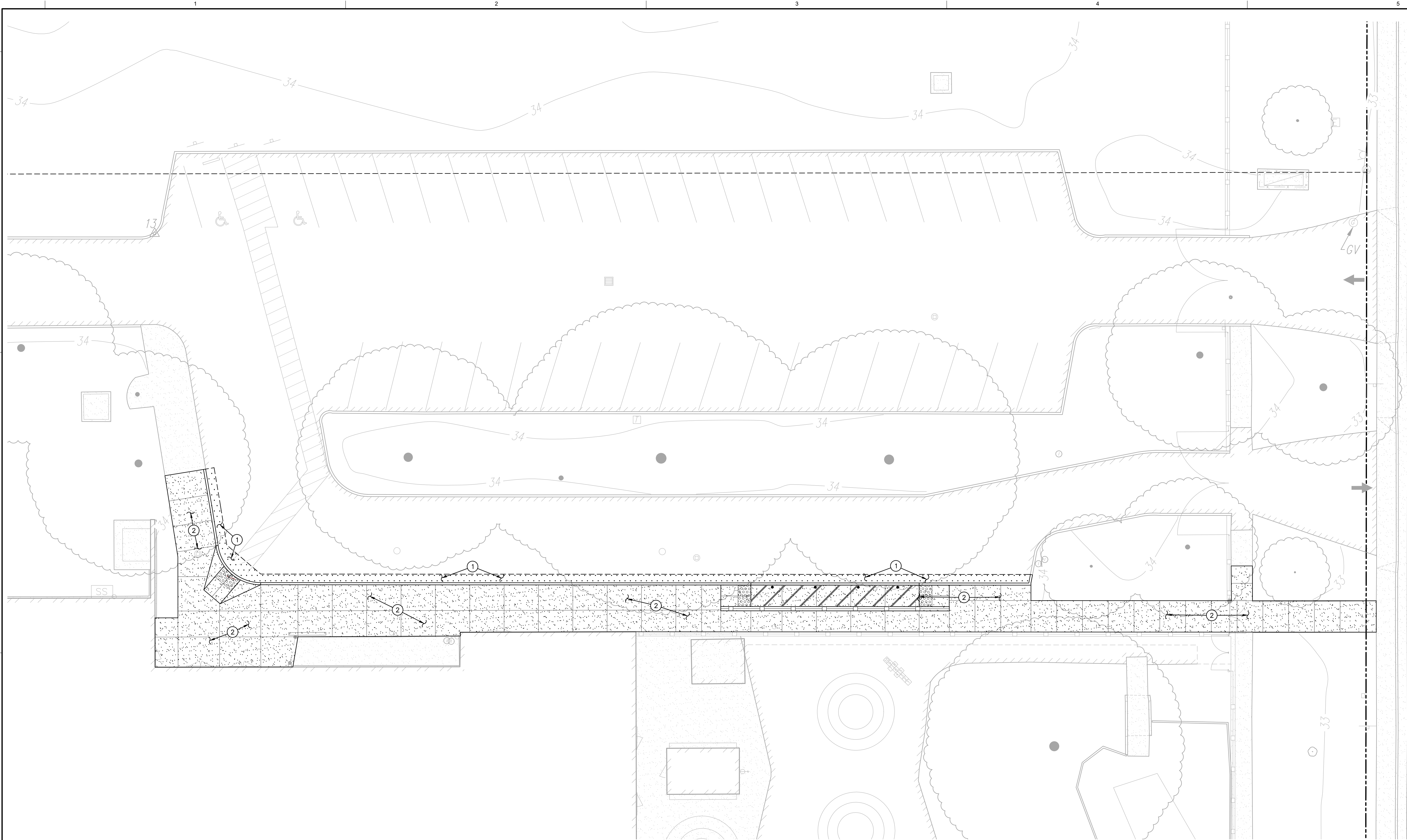


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1:014133_BML_A-MASTER_R1_V1_CENTRAL_mike boss.vnt

9/19/2014 10:32:25 AM



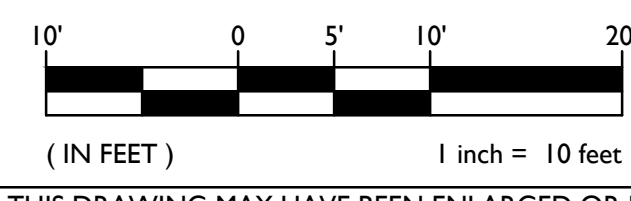
PAVING GENERAL NOTES:

- ALL NEW ASPHALT PAVING TO BE PROVIDED WITH SEALCOAT PER SPECIFICATIONS.
- PRIOR TO NEW SEALCOAT ON EXISTING ASPHALT SURFACES, FILL ALL CRACKS 1/4" INCHES OR WIDER WITH AN APPROVED CRACK FILLER.
- SLOPE IN ACCESSIBLE STALLS AND UNLOAD ZONES SHALL NOT EXCEED 1.9% IN ANY DIRECTION.
- SLOPE OF FINISHED PAVING TO BE 1% MINIMUM FOR ASPHALT, 1.0% MINIMUM FOR CONCRETE AND THE MAXIMUM SLOPE SHALL BE AS FOLLOWS:
CROSS SLOPE PERPENDICULAR TO PATH OF TRAVEL - 1.9%
DIRECTION OF TRAVEL - 4.9%
RAMP IN DIRECTION OF TRAVEL - 8.0%
PLAZA 1.9% - IN ANY DIRECTION
- ADJUST TO FINISH GRADE ALL UTILITY BOXES, FRAMES, COVERS, SLEEVES, POST HOLES GRATES, ETC. FOUND IN AREA OF WORK, WHETHER SHOWN OR NOT. CLEAN OR REPLACE AS NECESSARY TO ENSURE PROPER SEATING.

PAVING LEGEND

- 1 TYPE 1 PAVING**
PLACE 3" AC OVER 12" CLASS II AB ON A TENSAR BX100 GEOGRID ON SUBGRADE COMPACTED PER PLAN AND PROJECT SPECIFICATIONS. PROVIDE 2 APPLICATIONS OF SEAL COAT ON NEW PAVING.
- 2 TYPE 2 PAVING**
PLACE 5" PCC OVER 12" AB WITH #4 BAR AT 24" O.C.E.W. ON SUBGRADE COMPACTED PER PLAN AND PROJECT SPECIFICATIONS.
Concrete shall have 1" max. size aggregate, shall have 3000 psi min. at 28 day strength with a maximum water to cementitious ratio no greater than 0.50.
1.Reinforcement Bars: New billet steel deformed bars conforming to requirements of ASTM A615 or ASTM A706; Grade 60.
All reinforcing bar lap splices shall be staggered a minimum of 5 ft.

GRAPHIC SCALE



THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123568 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2025

LIONAKIS

2025 Nineteenth Street
Sacramento, CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT



WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 365-1870

SEAL

PROJECT
**CAMELLIA BASIC ELEMENTARY
SCHOOL - PC SHADE STRUCTURE**

6600 COUGAR DR
SACRAMENTO, CA 95828

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47th Ave Sacramento, CA 95824

ISSUED

MARK	DATE	DESCRIPTION
DSA	07/23/2025	DSA APPROVAL

MANAGEMENT

LIONAKIS PROJECT NO:	025012
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AGENCY

TITLE

PAVING PLAN

SHEET

CP101

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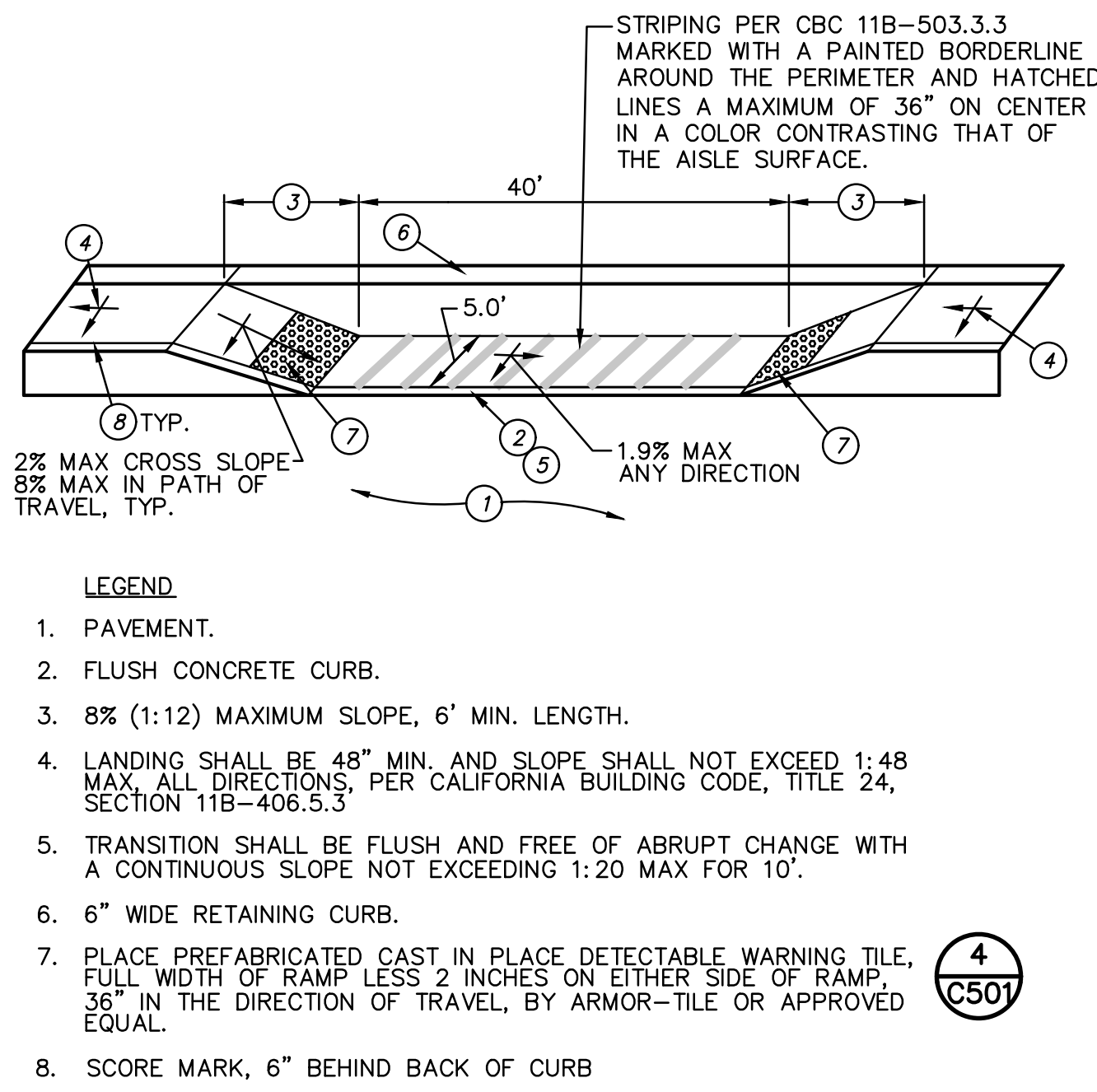
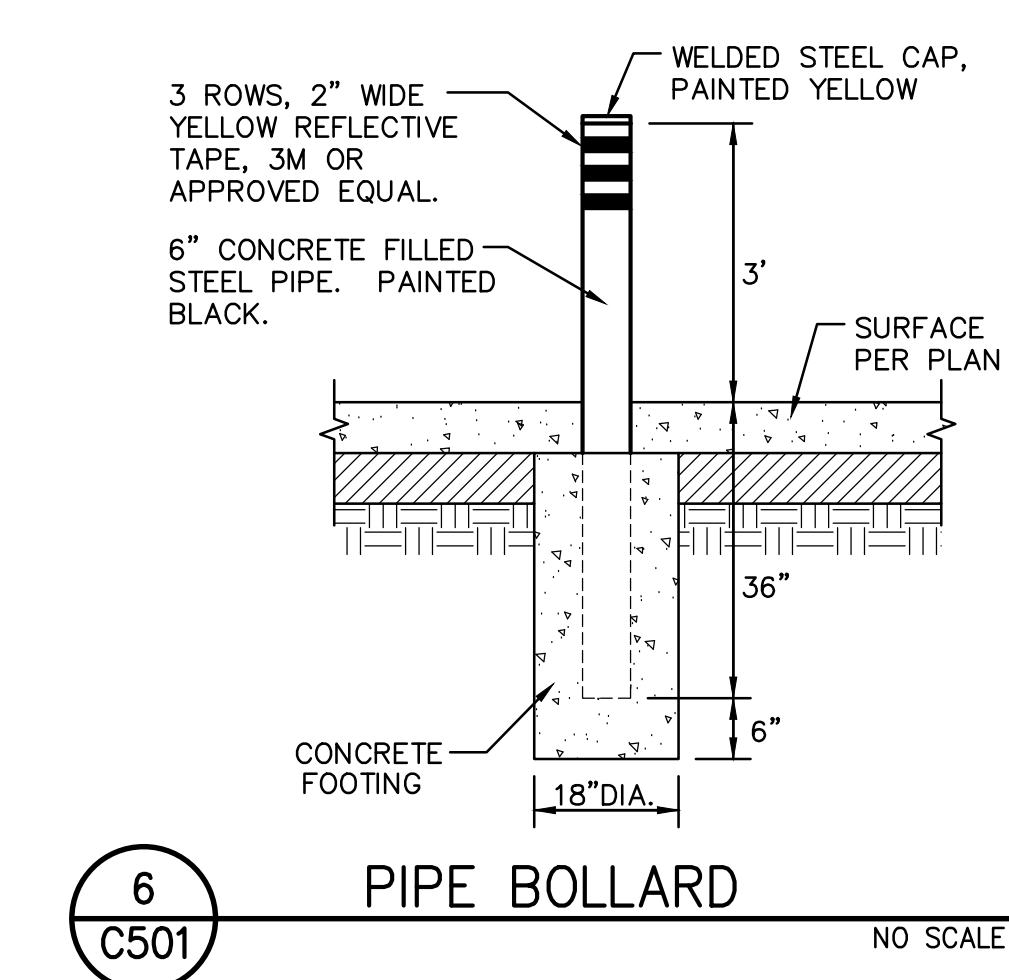
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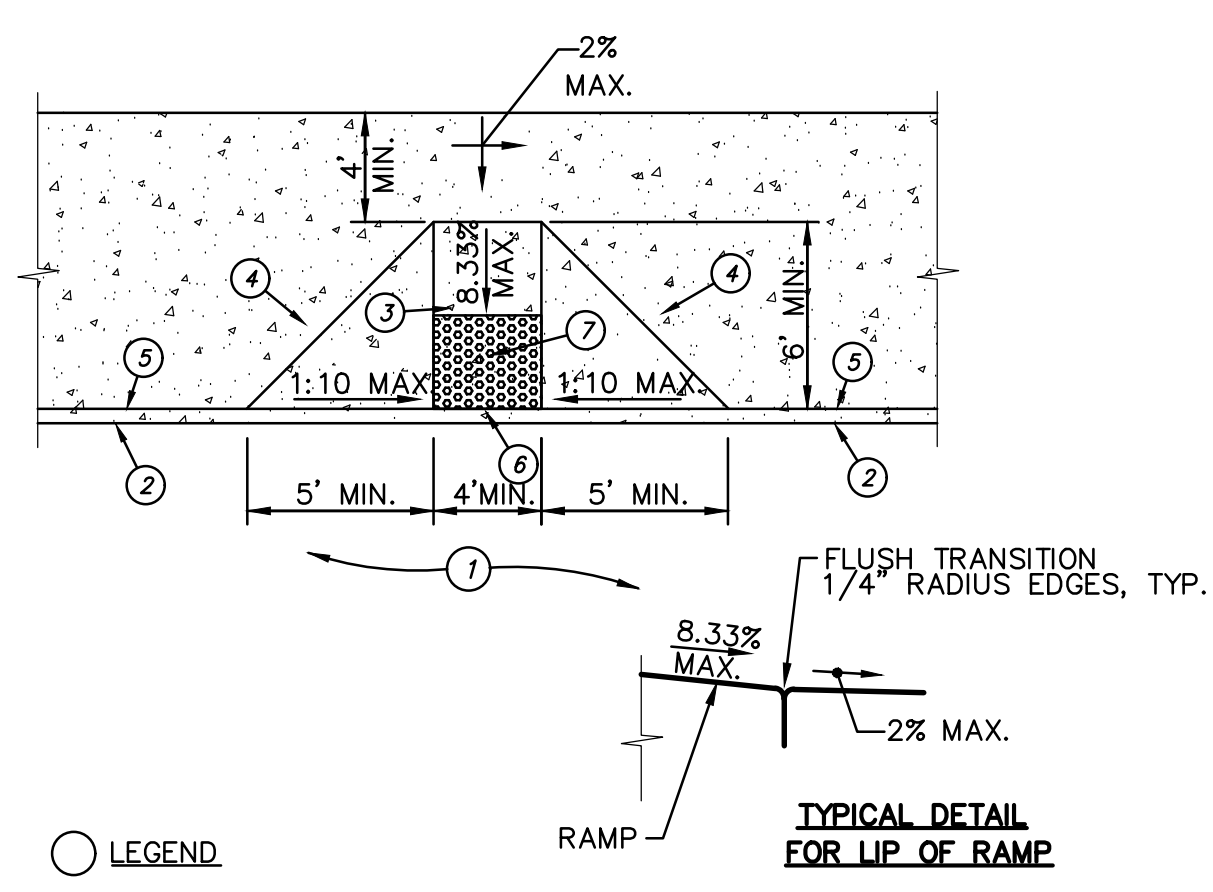
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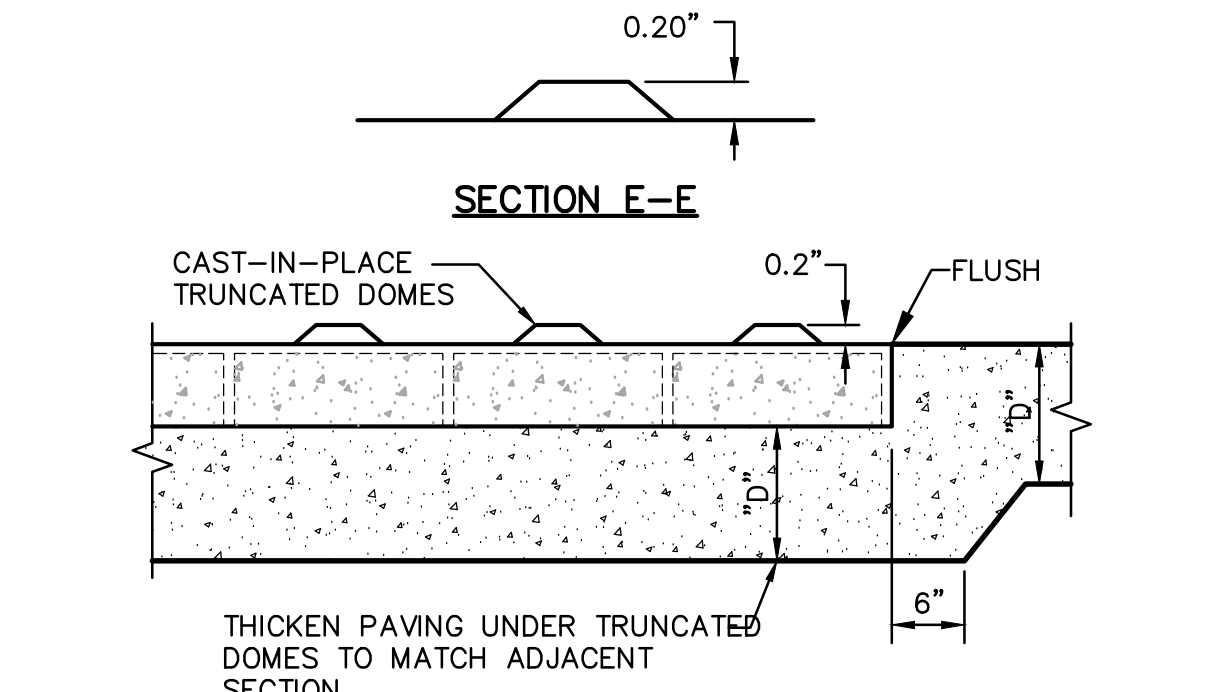
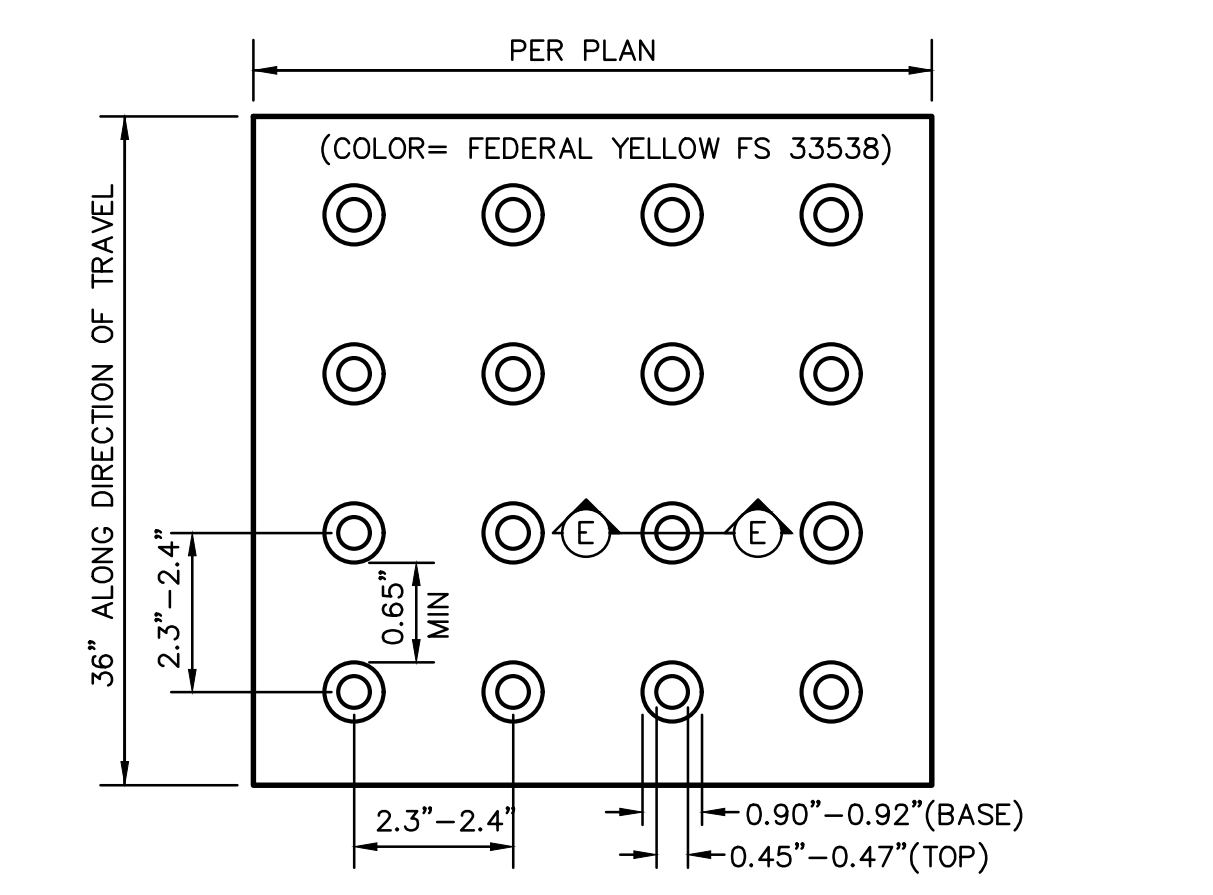


7 C501 LOADING/UNLOADING ZONE
NO SCALE

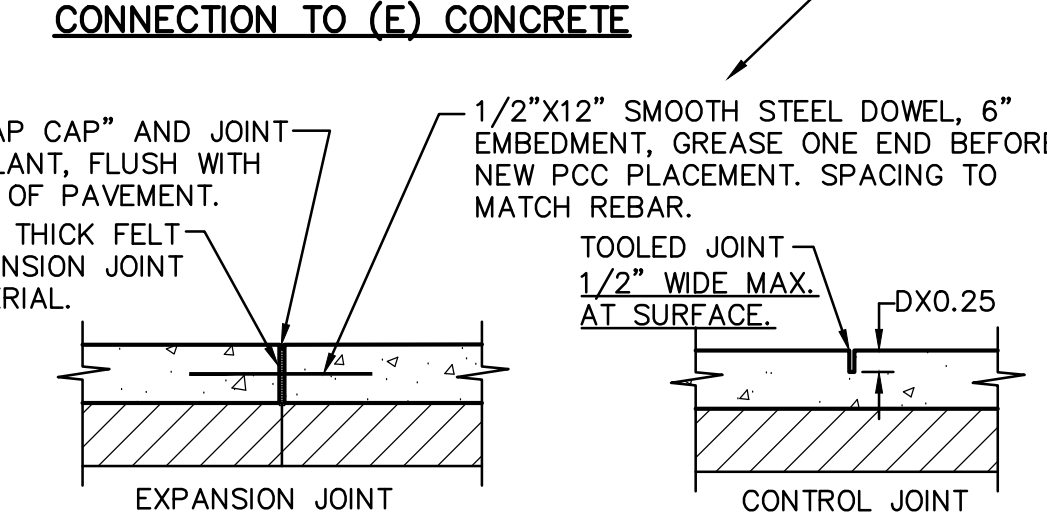
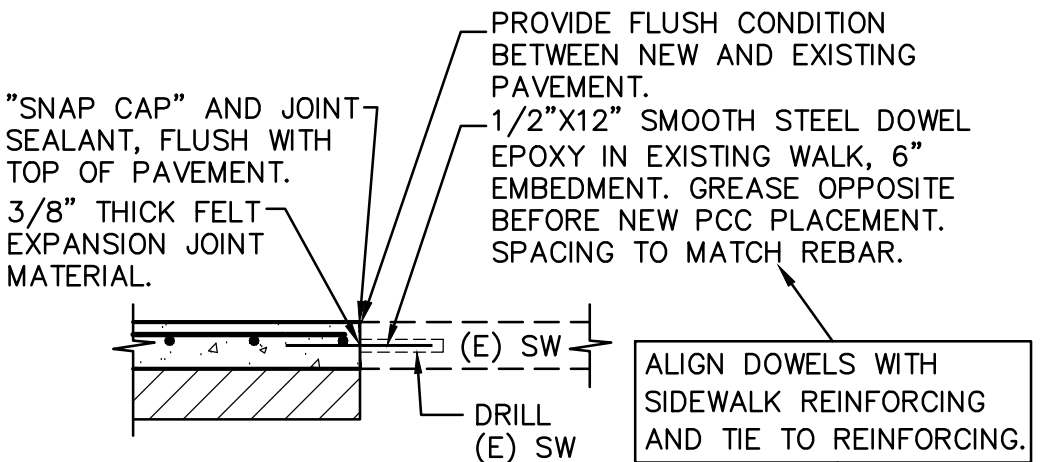
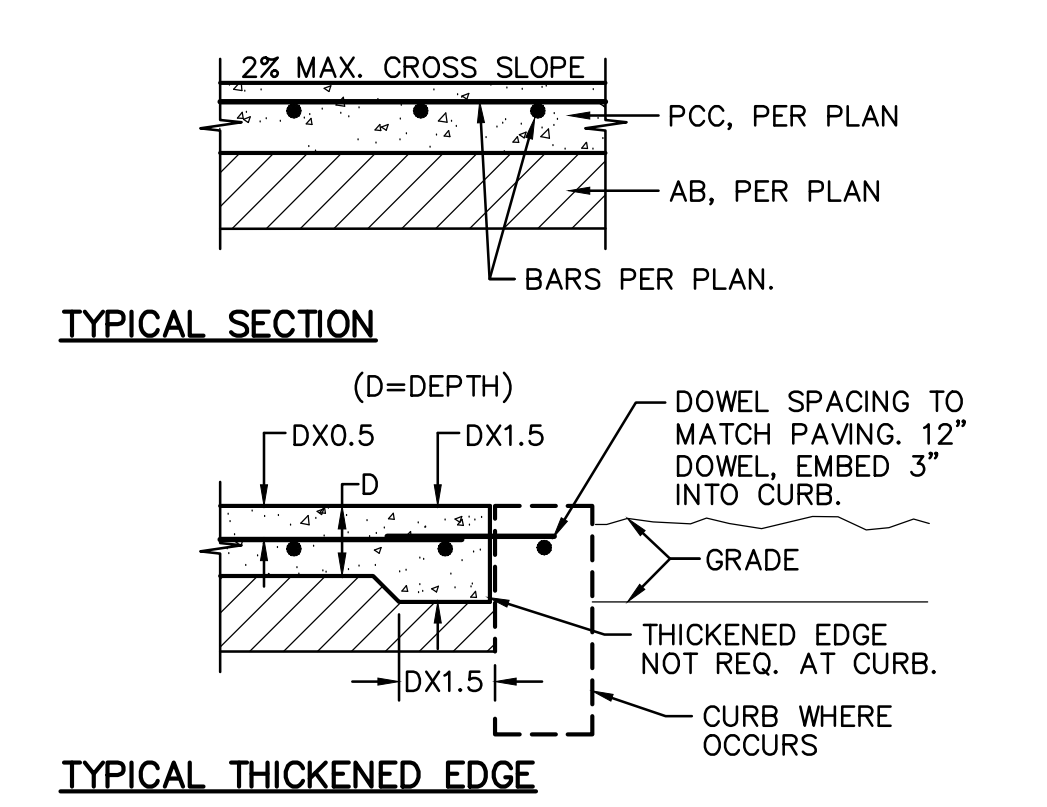


- LEGEND
- PAVEMENT.
 - TOP FACE OF ROLLED CURB, STANDARD 4" HIGH.
 - 8.3% (1:12) MAXIMUM SLOPE, 2% MAX CROSS SLOPE LENGTH=6.5'.
 - LANDING SHALL BE 48" MIN. AND SLOPE SHALL NOT EXCEED 1:48 MAX PER CALIFORNIA BUILDING CODE, TITLE 24, SECTION 11B-406.5.3
 - SCORE MARK, 6" BACK OF CURB.
 - TRANSITION SHALL BE FLUSH AND FREE OF ABRUPT CHANGE WITH A COUNTER SLOPE NOT EXCEEDING 1:20 MAX FOR 24" PER CALIFORNIA BUILDING CODE, TITLE 24, SECTION 11B-406.5.8.
 - PLACE 36" WIDE PREFABRICATED CAST IN PLACE DETECTABLE WARNING TILE BY ARMOR-TILE OR APPROVED EQUAL. DETECTABLE WARNINGS AT CURB RAMP SHALL EXTEND 36 INCHES IN THE DIRECTION OF TRAVEL. DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE RAMP RUN LESS 2 INCHES MAXIMUM ON EACH SIDE, EXCLUDING ANY FLARED SIDES. DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE CURB IS 9 INCHES MINIMUM AND 8 INCHES MAXIMUM FROM THE LINE AT THE FACE OF THE CURB MARKING THE TRANSITION BETWEEN THE CURB AND THE GUTTER OR STREET.

3 C501 ACCESSIBLE CURB RAMP
NO SCALE

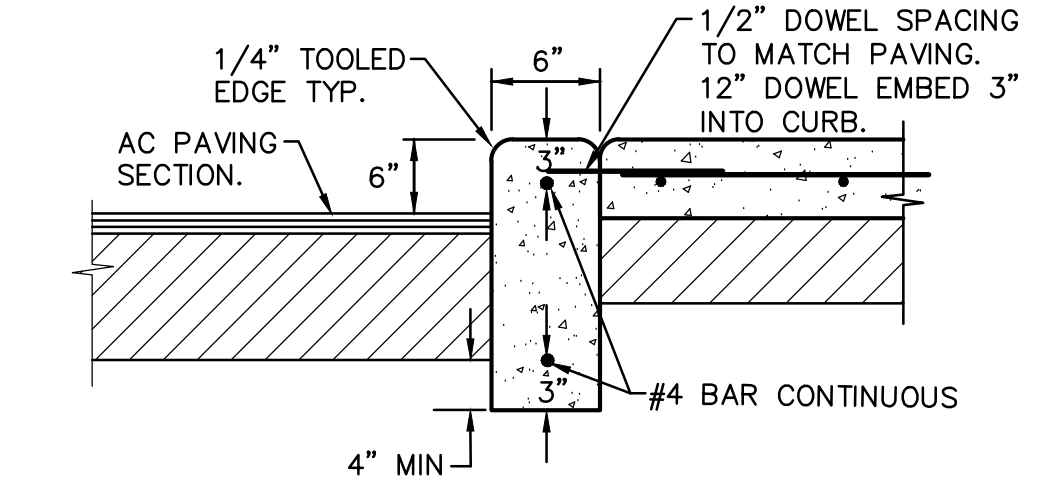
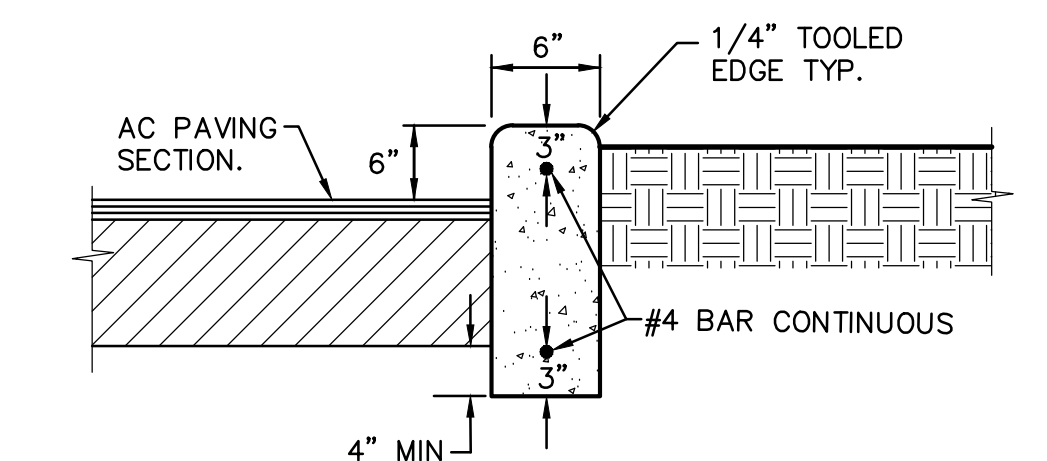
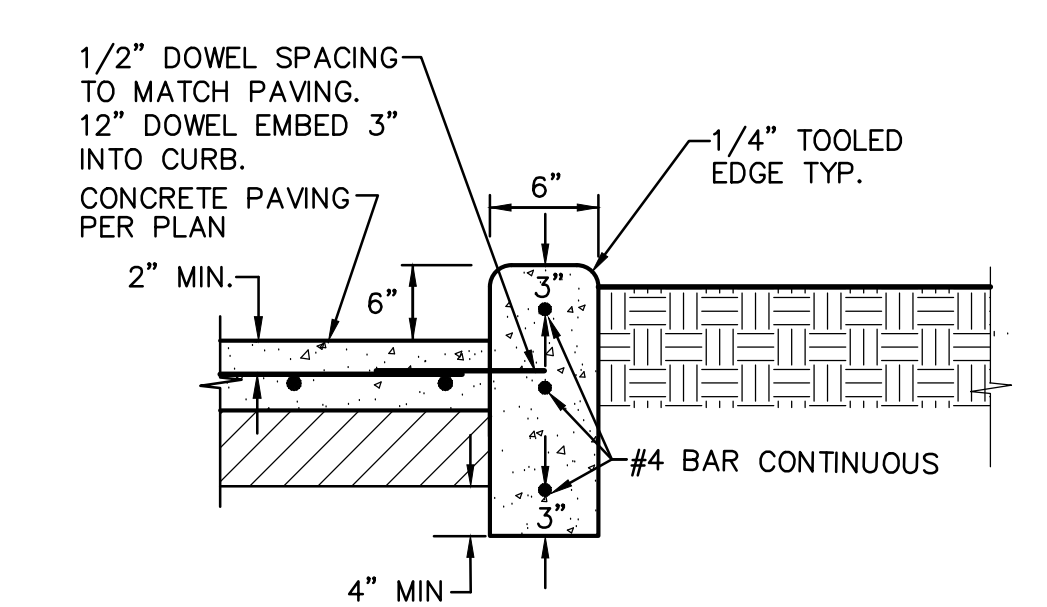


4 C501 TRUNCATED DOMES
NO SCALE



- NOTES:
- PROVIDE FELT EXPANSION JOINTS AT 20 FEET O.C. MAX. SEE PLAN FOR LAYOUT.
 - PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAX. SEE PLAN FOR LAYOUT.
 - EXPANSION OR CONTROL JOINTS SHALL NOT EXCEED 1/2" IN SURFACE WIDTH.

1 C501 CONCRETE SIDEWALK
NO SCALE



- NOTES:
- PROVIDE FELT EXPANSION JOINTS (E.J.) AT 60 FEET O.C. MAXIMUM PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAXIMUM, EXCEPT WHEN PLACING ADJACENT TO CONCRETE WALKS. THE EXPANSION JOINTS SHALL ALIGN WITH THE EXPANSION JOINTS SHOWN FOR THE CONCRETE WALKS.
 - AT E.J. USE 1/2"x24" SMOOTH DOWELS, ALIGN WITH REBAR, GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.

2 C501 CONCRETE CURB
NO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123568 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2025

LIONAKIS

2025 Nineteenth Street
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CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
No. 174558
OF CALIFORNIA

WCE

WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

SEAL

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MANAGEMENT
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AGENCY

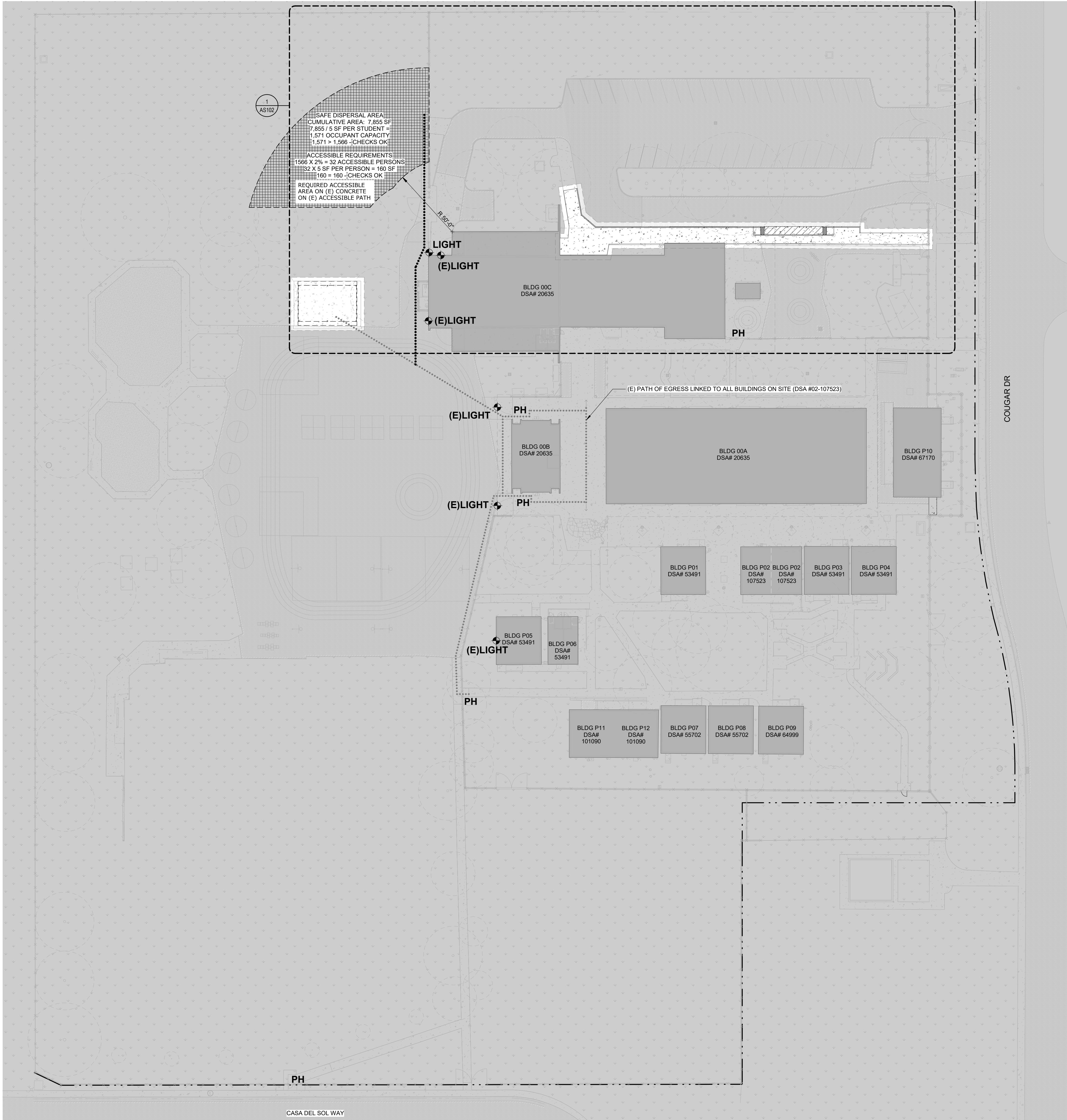
TITLE

DETAILS AND
SECTIONS

SHEET

C501

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1 SITE PLAN - OVERALL
SCALE: 1" = 30'-0"

GENERAL NOTES

- A. GRAY LINES INDICATE EXISTING TO REMAIN OR REFERENCE
- B. NOT ALL WORK SHOWN ON THIS SHEET; SEE BALANCE OF CONTRACT DOCUMENTS FOR FULL SCOPE OF WORK
- C. SEE 'SITE PLAN - ACCESSIBILITY' PLAN FOR SITE ACCESSIBILITY
- D. SEE 'SITE PLAN - FIRE ACCESS PLAN' FOR FIRE ACCESS
- E. SEE GATE SCHEDULE FOR GATE WIDTH AND PANIC HARDWARE REQUIREMENTS
- F. SEE 'SITE PLAN - ACCESSIBILITY' FOR EXIT DISCHARGE ROUTES TO PUBLIC WAY OR SAFE DISPERSAL AREAS
- G. FOR GATE / DOOR MANEUVERING CLEARANCES AT ALL ACCESS DOORS APPLICABLE TO PROJECT SCOPE OF WORK, SEE DETAIL
- H. PROVIDE 18" CONCRETE MOW STRIP UNDER ALL FENCING AND GATES THROUGH SOFTSCAPE AREAS, UNO.
- I. ANYWHERE (E) TO REMAIN HARDSCAPE IS DISTURBED BY DEMOLITION OR NEW CONSTRUCTION, REPLACE HARDSCAPE; SEE CIVIL FOR HARDSCAPE SECTION INFORMATION
- J. GATES IN FENCES MATCH FENCE TYPE UNO.
- K. AT DECORATIVE GATES WITH PANIC BARS, INSTALL PREFINISHED PERFORATED METAL AT FULL CAMPUS SIDE OF GATE AT AND 24" MINIMUM ALONG ADJACENT FENCE EACH SIDE UNO.
- L. AT CHAIN LINK GATES WITH PANIC BARS, INSTALL SLATS IN FULL WIDTH OF GATE AND 24" MINIMUM ALONG ADJACENT FENCE EACH SIDE UNO.
- M. FIELD VERIFY SPOT ELEVATIONS PRIOR TO SETTING FINAL GRADES
- N. AT HARDSCAPE ADJACENT TO BUILDING, PROVIDE A SLOPE OF 2% AWAY FROM BUILDING FOR AT LEAST 10 FEET FROM FACE OF WALL. AT SOFTSCAPE AREAS, PROVIDE A SLOPE OF 5% AWAY FROM BUILDINGS FOR AT LEAST 10 FEET FROM FACE OF WALL PER CBC. SEE CIVIL FOR SLOPE AND SPOT ELEVATIONS.

SITE PLAN LEGEND

LIMITS OF ARCHITECTURAL SCOPE OF WORK

(E) BUILDING WITH NO SCOPE OF WORK

SOFTSCAPE

ASPHALT

CONCRETE

PROPERTY LINE

EXIT DISCHARGE PATH TO PUBLIC WAY / SAFE DISPERSAL AREA (ACCESSIBLE)

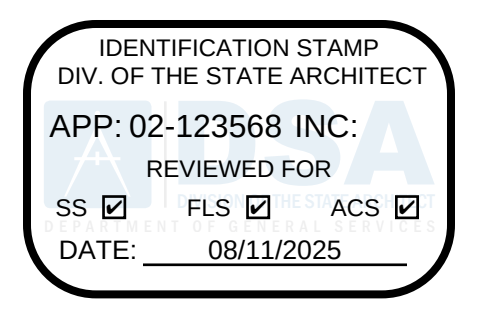
EXIT DISCHARGE PATH TO PUBLIC WAY / SAFE DISPERSAL AREA (ACC.)

EGRESS LIGHTING

EGRESS LIGHTING

BUILDING NAMES & CODE INFORMATION

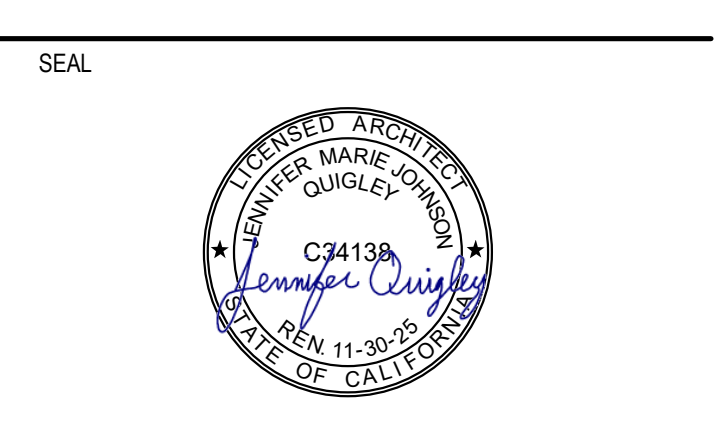
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00B	(E)	20635	B	NO	V-B	1	1,532	3
00C	(E)	20635	MIXED-USE SEPARATED; A-2.1/E	NO	V-A	1	12,447	467
P01	(E)	53491	E	NO	V-B	1	868	44
P02	(E)	107523	E	NO	V-B	1	1,280	64
P03	(E)	53491	E	NO	V-B	1	868	44
P04	(E)	53491	E	NO	V-B	1	868	44
P05	(E)	53491	E	NO	V-B	1	868	44
P06	(E)	53491	E	NO	V-B	1	614	0
P07	(E)	55702	E	NO	V-B	1	868	44
P08	(E)	55702	E	NO	V-B	1	868	44
P09	(E)	64999	E	NO	V-B	1	868	44
P10	(E)	67170	E	NO	V-B	1	1,781	89
P11	(E)	101090	E	NO	V-B	1	886	45
P12	(E)	101090	E	NO	V-B	1	886	45
SS01	NEW	02-123568	E	NO	II-B	1	1,200	60
TOTAL							37,649	1,566



LIONAKIS

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CONSULTANT



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MARK	DATE	DESCRIPTION
DSA	07/29/2025	DSA APPROVAL

MANAGEMENT
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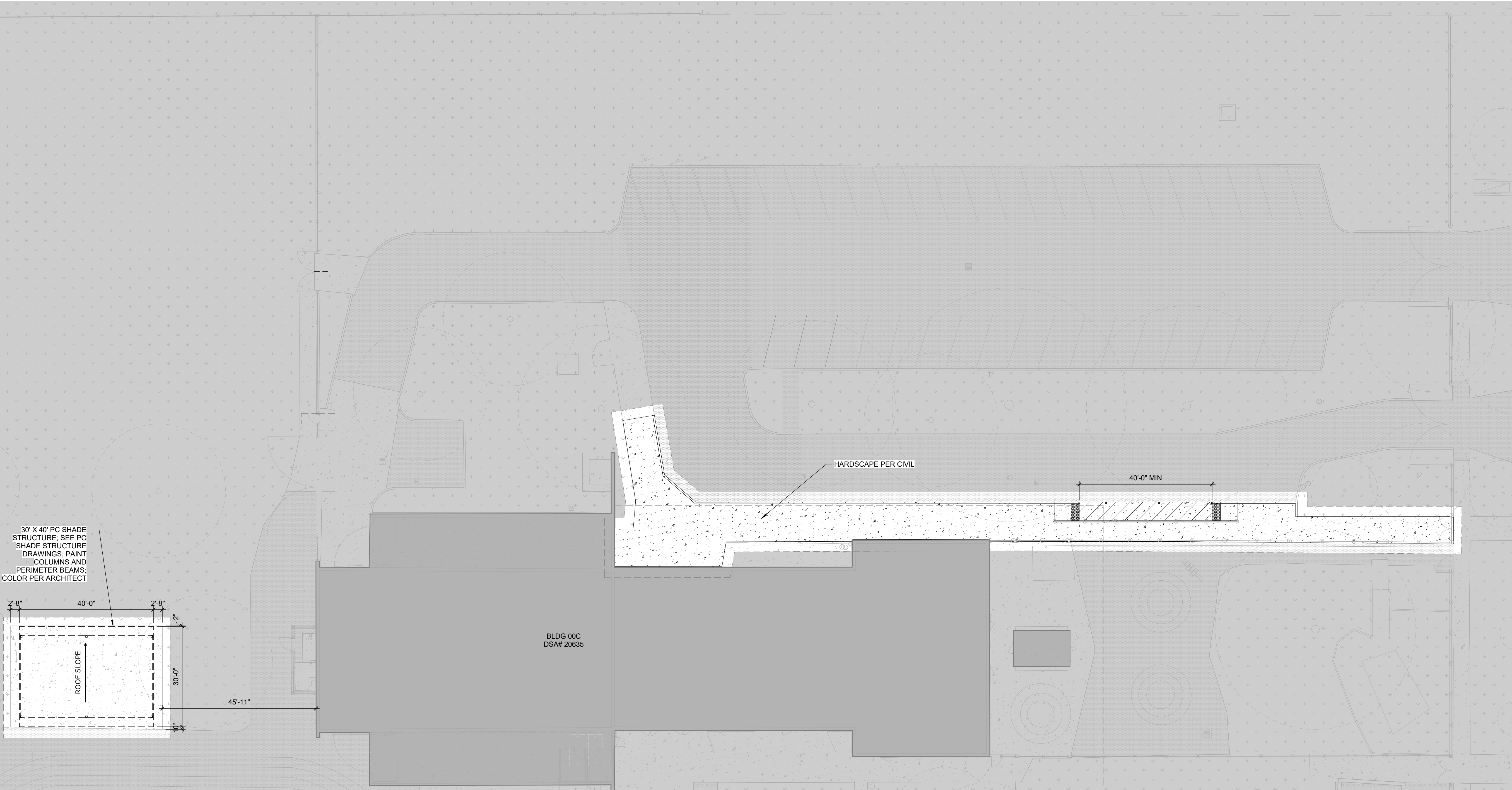
TITLE
OVERALL SITE PLAN

SHEET
AS101

0 1/4" 1/2" 1' IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

Address: Doc: 025012.S01SD - CBES Feat.dwg 02/2012_ARCH-METR_SHADESTRUCTURE_R24_CENTRAL.dwg

7/26/2025 10:00:01 PM



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

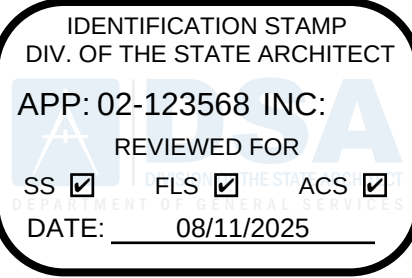
GENERAL NOTES

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- B. NOT ALL WORK SHOWN ON THIS SHEET; SEE BALANCE OF CONTRACT DOCUMENTS FOR FULL SCOPE OF WORK
- C. SEE 'SITE PLAN - ACCESSIBILITY' PLAN FOR SITE ACCESSIBILITY
- D. SEE 'SITE PLAN - FIRE ACCESS PLAN' FOR FIRE ACCESS
- E. SEE GATE SCHEDULE FOR GATE WIDTH AND PANIC HARDWARE REQUIREMENTS
- F. SEE 'SITE PLAN - ACCESSIBILITY' FOR EXIT DISCHARGE ROUTES TO PUBLIC WAY OR SAFE DISPERSAL AREAS
- G. FOR GATE / DOOR MANEUVERING CLEARANCES AT ALL ACCESS DOORS APPLICABLE TO PROJECT SCOPE OF WORK, SEE DETAIL
- H. PROVIDE 18" CONCRETE MOW STRIP UNDER ALL FENCING AND GATES THROUGH SOFTSCAPE AREAS, UNO.
- I. ANYWHERE (E) TO REMAIN HARDSCAPE IS DISTURBED BY DEMOLITION OR NEW CONSTRUCTION, REPLACE HARDSCAPE; SEE CIVIL FOR HARDSCAPE SECTION INFORMATION
- J. GATES IN FENCES MATCH FENCE TYPE UNO.
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- L. AT CHAIN LINK GATES WITH PANIC BARS, INSTALL SLATS IN FULL WIDTH OF GATE AND 24" MINIMUM ALONG ADJACENT FENCE EACH SIDE UNO.
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SITE PLAN LEGEND

- LIMITS OF ARCHITECTURAL SCOPE OF WORK
- (E) BUILDING WITH NO SCOPE OF WORK
- SOFTSCAPE
- ASPHALT
- CONCRETE
- PROPERTY LINE

- EXIT DISCHARGE PATH TO PUBLIC WAY / SAFE DISPERSAL AREA (ACCESSIBLE)
- (E) EXIT DISCHARGE PATH TO PUBLIC WAY / SAFE DISPERSAL AREA (ACC.)
- LIGHT (E) LIGHT
- (E) LIGHT (E) EGRESS LIGHTING

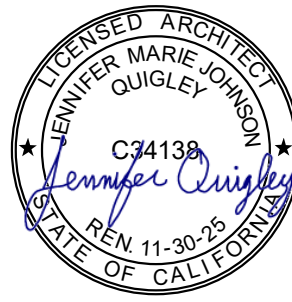


LIONAKIS

2025 Nineteenth Street
Sacramento, CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL



PROJECT
CAMELLIA BASIC ELEMENTARY
SCHOOL - PC SHADE STRUCTURE

6600 COUGAR DR,
SACRAMENTO, CA 95828

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
5735 47th Ave, Sacramento, CA 95824

ISSUED		
MARK	DATE	DESCRIPTION
DSA	07/29/2025	DSA APPROVAL

MANAGEMENT
LIONAKIS PROJECT NO: 025012
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TITLE
ENLARGED SITE PLANS

SHEET
AS102

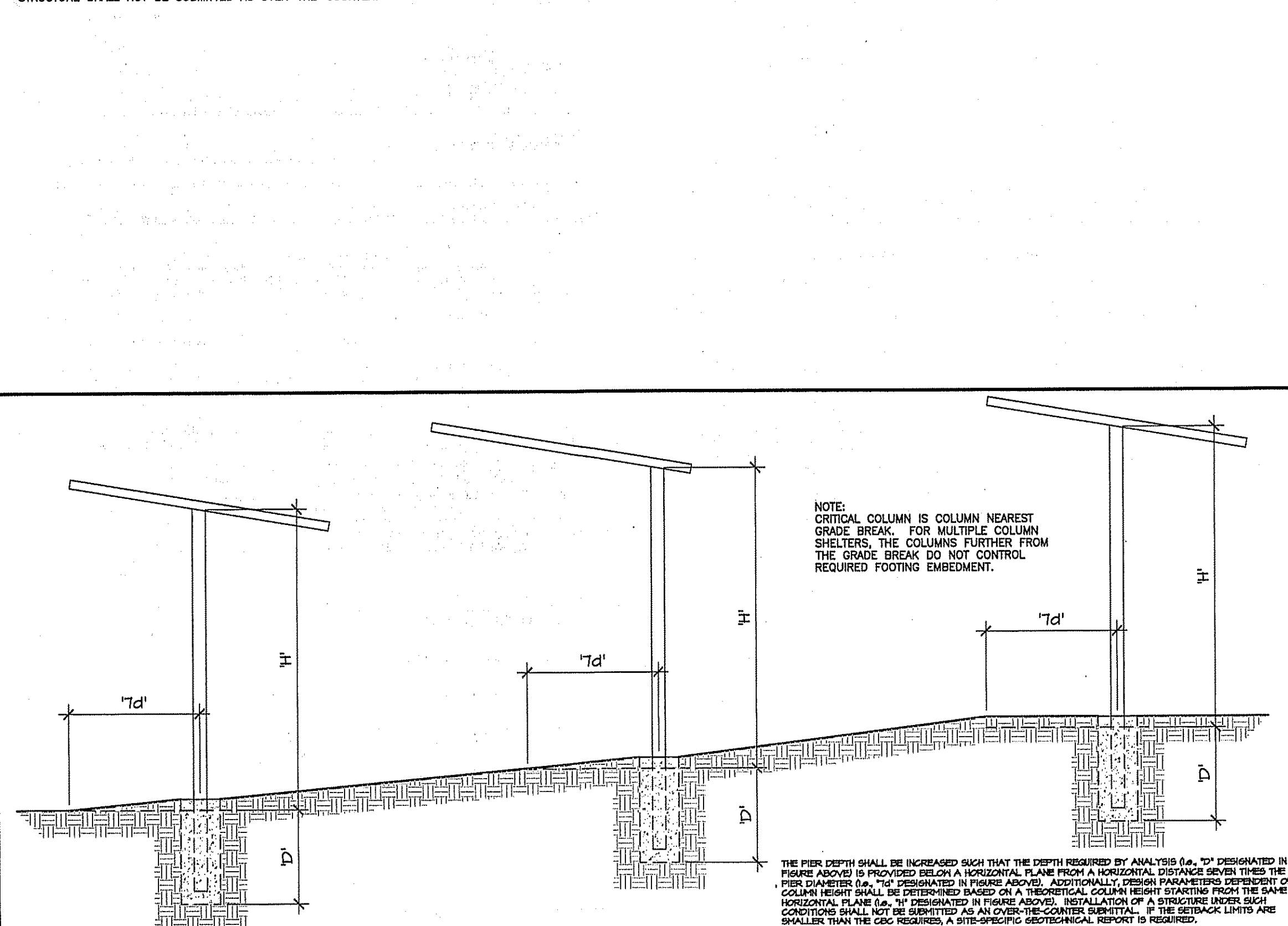
GENERAL NOTES

- ALL DIMENSIONS, CONDITIONS AND ELEVATIONS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK OR FABRICATION. IF ANY DISCREPANCIES ARE FOUND OR IF ANY CONDITION EXISTS NOT AS SHOWN ON THE DRAWINGS THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- THE CONTRACTOR WILL HOLD HARMLESS, INDEMNIFY AND DEFEND THE OWNER, THE ENGINEER, AND HIS CONSULTANTS, AND EACH OF THEIR OFFICERS AND EMPLOYEES AND AGENTS, FROM ANY AND ALL LIABILITY CLAIMS, LOSSES OR DAMAGE ARISING OR ALLEGED TO ARISE FROM THE PERFORMANCE OF THE WORK DESCRIBED HEREIN, BUT NOT INCLUDING THE SOLE NEGLIGENCE OF THE OWNER, THE ENGINEER AND HIS CONSULTANTS, AND EACH OF THEIR OFFICERS AND EMPLOYEES AND AGENTS.
- THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE DESIGN INTENT. UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.
- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- ALL WORK SHALL CONFORM TO THE LATEST APPLICABLE CONSTRUCTION SAFETY REQUIREMENTS OF O.S.H.A. AND ANY OTHER GOVERNMENTAL ENTITY HAVING JURISDICTION.
- THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON, OR NEAR THE CONSTRUCTION SITE.
- ANY SUPPORT SERVICES PERFORMED BY THE ENGINEER OR HIS REPRESENTATIVES DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER WHETHER OF MATERIAL OR WORK AND WHETHER PERFORMED PRIOR TO, DURING, OR AFTER COMPLETION OF CONSTRUCTION ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATION, BUT THEY DO NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
- ANY CHANGES TO THE APPROVED SET OF PLANS WITHOUT NOTIFYING THE ENGINEER PRIOR TO SUCH CHANGES ABSOLUTELY AND SOLELY THE RESPONSIBILITY OF THE CONTRACTOR WITH RESPECT TO LIABILITY, DAMAGE OR EXTRA WORK RESULTING FROM SAID CHANGES.
- NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.
- THE TYPICAL DETAILS SHOWN ON THESE SHEETS SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR OTHER SIMILAR WORK.
- DESIGN LOADS: RISK CATEGORY II OR RISK CATEGORY III
ROOF LIVE LOAD: 20 PSF REDUCIBLE ROOF DEAD LOAD: 3 PSF
SNOW LOAD: $P_g = P_s = 20 \text{ PSF} \pm 30.6 \text{ PSF}$ $C_e = 1.1$ $C_t = 1.2$ $C_s = 1.0$ $C_d = 0 \text{ PSF}$
SEISMIC: $I_e = 1.0$ AT RISK CATEGORY II OR $I_e = 1.25$ AT RISK CATEGORY III
SEISMIC DESIGN CATEGORY = E $p = 1.0$
- STRUCTURE IS A STEEL ORDINARY CANTILEVERED COLUMN SYSTEM (Q2 PER ASCE7-16)
 $R = 1.25/0.7$ (FOR WORKING STRESS)
 $C_o = 1.25$ $C_d = 1.25$ $C_e = 0.56W$ (ASD) FOR $S_{DS} = 1.0$
SOIL CLASS = D
FOR 120' COLUMN HEIGHT $T = 0.49$
RISK CATEGORY III $V = 0.70W$ (ASD) FOR $S_{DS} = 1.75$
RISK CATEGORY III $V = 1.75W$ (ASD) FOR $S_{DS} = 2.5$
HEIGHTS > 120'
- WIND LOAD: 110 MPH, EXPOSURE C RISK CATEGORY II OR RISK CATEGORY III
 $K_d = 0.85$ $C_e = 0.00256 \times K_z \times K_d \times V^2 \times 0.6$ (FOR WORKING STRESS)
STRUCTURE IS DESIGNED FOR CLEAR & OBSTRUCTED WIND FLOW.
MAXIMUM BASIC WIND LOAD FOR PROJECT LOCATED IN SPECIAL WIND REGIONS SHALL BE EQUAL TO OR LESS THAN 135 MPH AND CONFORM WITH THE ADOPTED ORDINANCE OF THE CITY, COUNTY OR CITY AND COUNTY IN WHICH THE PROJECT SITE IS LOCATED AND SHALL BE APPROVED BY DSA-SS.
- GOVERNING CODE: 2022 CBC
- ALLOWABLE SOIL BEARING IS BASED ON 1500 PSF & 100 PCF-2 PASSIVE PRESSURE PER CBC TABLE 1808A.2 & SECTION 1808A.3.4. SKIN FRICTION IS PER 1810A.3.3.1.4 & IS EQUAL TO 1500/6=250 PSF. FOR UPLIFT SKIN FRICTION SHALL BE 125 PSF (S.F. OF 2). 1/3 INCREASE NOT USED FOR ANY SOIL VALUES.
- ALL WORK SHALL BE PERFORMED UNDER THE CONTINUOUS INSPECTION OF A D.S.A. APPROVED INSPECTOR.
- ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, COR AND THE ENGINEER.
- A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE OFFICE OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, COR.

GENERAL NOTES

NOTES FOR ARCHITECT TO VERIFY & COMPLY

- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY.
- 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 IR A-6 AND SECTION 338(C) PART 1, TITLE 24 COR.
- LOCATION OF ELECTRICAL COMPONENTS MOUNTED TO COLUMNS SHALL COMPLY WITH ASCE 24-14, SECTION 7.2.
- THE ARCHITECT SHALL VERIFY COMPLIANCE W/ 80/51 (OR PC-7, SECTION 5.8) IF COVER IS NEAR A SLOPE AND NOTIFY THE P.C. ENGINEER. IF COVER IS NEAR A SLOPE, THE INSTALLATION OF THIS STRUCTURE SHALL NOT BE SUBMITTED AS OVER-THE-COUNTER.



SLOPED SITE FIGURE

SCALE: NONE

8D

FOUNDATION NOTES

- ALL FOOTINGS SHALL EXTEND TO FIRM BEARING IN UNDISTURBED SOIL OR ENGINEERED FILL.
- NOMINAL TOP OF FLOOR SLAB ELEVATION = DATUM +0'-0" UNLESS OTHERWISE NOTED.
- ANY EXISTING FILL AT THE BUILDING PAD SHALL MEET THE 92% COMPACTION REQUIREMENTS. ALL ORGANIC MATERIAL, RUBBLE, OR OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SITE.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF EXTERIOR WALKWAYS.
- ALL REINFORCING STEEL, ANCHOR BOLTS, AND OTHER EMBEDDED ITEMS SHALL BE SECURELY POSITIONED IN THE FORMS PRIOR TO POURING OF CONCRETE.
- SHORING AND BRACING: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, AND FORM WORK AS REQUIRED FOR THE CONSTRUCTION OF THIS BUILDING. PROVIDE TEMPORARY BRACING AS REQUIRED TO HOLD THE VARIOUS ELEMENTS IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.
- EXCAVATION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION PROCEDURES AND FOR PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.
- BACKFILL: DO NOT BACKFILL AROUND THE EXTERIOR PERIMETER WALL UNTIL AFTER THE WALLS ARE SUPPORTED BY THE COMPLETION OF INTERIOR FLOOR SYSTEMS. IF THE FLOOR SLABS ARE CONCRETE, DO NOT BACKFILL UNTIL 7 DAYS MINIMUM AFTER COMPLETION OF THE FLOOR SLABS. DO NOT BACKFILL UNTIL AFTER COMPLETION AND INSPECTION OF DAMP-PROOFING.

CONCRETE NOTES

- ALL MOLDS, ORNAMENTS, GROOVES, ETC. SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE PROVIDED FOR IN THE FORM WORK BEFORE THE CONCRETE IS POURED.
- ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND OTHER EMBEDS SHALL BE IN PLACE AND SECURED TO FORM WORK PRIOR TO POURING OF CONCRETE.
- REFER TO BOTH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION OF PLUMBING FIXTURES.
- NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE WALLS OR STRUCTURAL SLABS UNLESS SPECIFICALLY DETAILLED.
- CONSTRUCTION JOINTS NOT INDICATED ON THE DRAWINGS SHALL BE SO MADE AND LOCATED AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE. PROVISION SHALL BE MADE FOR TRANSFER OF SHEAR AND OTHER FORCES THROUGHOUT THE JOINTS. THE CONTRACTOR SHALL OBTAIN THE ARCHITECT'S APPROVAL OF CONSTRUCTION JOINT LOCATION IN ALL STRUCTURAL SLAB, BEAMS AND SHEAR WALLS.
- SIDES OF FOOTINGS MAY BE POURED AGAINST STABLE EARTH.
- THE QUALITY AND DESIGN OF CONCRETE SHALL COMPLY WITH TITLE 24 PART 2 EXCEPT ITEMS NOT SPECIFICALLY COVERED THEREIN. SHALL CONFORM TO ACI 318.
- ALL REINFORCING SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A615.
- A #4 BARS AND SMALLER..... GRADE 40 OR 60
B #5 BARS AND LARGER..... GRADE 60
C SEPARATE BARS 1-1/2 DIAMETERS CLEAR OR 1-1/2" CLEAR, WHICHEVER IS LARGER.
- MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS:
CAST AGAINST EARTH (EXCEPT SLABS ON GRADE)..... 1-1/2"
SLABS ON GRADE..... 1-1/2"
EXPOSED TO EARTH OR WEATHER..... 1-1/2"
#5 BARS AND SMALLER..... 1-1/2"
#6 BARS AND LARGER..... 1-1/2"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND..... 3/4"
#11 BARS AND SMALLER..... 3/4"
#14 AND #18 BARS..... 1-1/2"
BEAMS, GIRDERS, COLUMNS..... 1-1/2"
PRINCIPAL REINFORCING, TIES..... 1-1/2"
STIRRUPS, OR SPIRALS..... 1-1/2"
SHELLS AND FOLDED PLATE MEMBERS..... 1-1/2"
#6 BARS AND SMALLER..... 1/2"
#8 BARS AND LARGER..... 3/4"
- CONCRETE SHALL HAVE FOLLOWING MINIMUM REQUIREMENTS FOR THE FOLLOWING EXPOSURE CATEGORIES & CLASSES:
F0- 3000 PSI AT 28 DAYS & MAXIMUM WATER TO CEMENT RATIO OF 0.5
F2- 4500 PSI AT 28 DAYS & MAXIMUM WATER TO CEMENT RATIO OF 0.45 & VERIFY COMPLIANCE W/ ACI TABLE 19.3.3.1.
- THE ENGINEER DOES NOT PROVIDE CONTRACT ADMINISTRATION FOR THE PROJECT, INCLUDING REVIEW OF CONCRETE MIXES.
- PER ACI SECTION 19.3.2.1, FOOTING SHALL NOT BE EXPOSED TO FREEZING AND THAWING CYCLES. SHALL NOT BE EXPOSED TO WATER-SOLUBLE SULFATE IN SOIL. PER ACI 318, SHALL NOT BE EXPOSED TO EXTERNAL SOURCE OF CHLORIDES.
- CEMENT SHALL COMPLY W/ ASTM C150 AND AGGREGATE SHALL COMPLY W/ ASTM C33.

STRUCTURAL STEEL NOTES

- ALL STRUCTURAL STEEL EXCEPT W SHAPES SHALL CONFORM TO ASTM A-36 AND SHALL BE FABRICATED AND ERECTED AS PER AISC SPECIFICATIONS FOR BUILDINGS. W SHAPES SHALL CONFORM TO ASTM A992.
- STRUCTURAL PIPE SHALL CONFORM TO ASTM A-53 GRADE "B" AND STRUCTURAL TUBING SHALL CONFORM TO ASTM A-500 GRADE "B", Fy=46KSI.
- ALL LIGHT GAGE STEEL TO CONFORM TO ASTM A653 GRADE 55 FOR ALL STRUCTURAL SHAPES, A653 GRADE 33 FOR ALL BLOCKING, FLASHINGS, MISCELLANEOUS CONNECTION PLATES, AND ANGLES.
- ALL UNFINISHED BOLTS SHALL BE ASTM A-307 UNLESS NOTED OTHERWISE.
- USE ASC USUAL GAGES FOR BOLT HOLES IN ALL STEEL SECTIONS UNLESS OTHERWISE NOTED.
- THE STEEL FABRICATOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING FOR ERECTION.
- ALL BOLT HOLES ARE TO BE 1/16" OVERSIZED. ALL BOLTS SHALL HAVE WASHERS INSTALLED UNDER BOTH HEAD & NUT. SELF DRILLING SCREWS SHALL BE PER ESR-1976 OR EQUAL.
- ALL STEEL SHALL BE PROTECTED FROM WEATHER AS FOLLOWS: STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED (MINIMUM ASTM A123 OR A153, CLASS D) OR PAINTED WITH ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT; OR EQUIVALENT PAINT SYSTEM. COLD-FORMED STEEL MEMBERS SHALL BE 55% ALUMINUM-ZINC ALLOY COATED PER ASTM A792/A792M STANDARD IN ACCORDANCE TO AISI 5500 TABLE A4-1, CP 90 COATING DESIGNATION.

GOVERNING CODES:

- 2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, COR).
- 2022 CALIFORNIA BUILDING CODE, VOLUMES 1 & 2 (PART 2, TITLE 24, COR).
- 2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, COR).
- 2022 CALIFORNIA FIRE CODE (PART 9, TITLE 24, COR).

NOTES

- COVERS ARE NOT DESIGNED TO BE ENCLOSED OR FOR STORAGE OF COMBUSTIBLE MATERIALS.
- WALKWAY COVER HAS BEEN CHECKED FOR CLEAR & OBSTRUCTED WIND FLOW CONDITION & CAN BE WITHIN 6" MIN. FROM AN EXISTING BUILDING.
- WALKWAY PIER FOOTING HAS BEEN CHECKED FOR D.S.A. BULLETIN 09-06 REV.
- ALL WORK SHALL COMPLY WITH C.F.C. CHAPTER 33 DURING CONSTRUCTION.

TESTING & INSPECTIONS REQUIRMENTS

- INSPECTOR CLASS (MINIMUM REQUIREMENTS)
CLASS 2
- SELECTION OF THE PROJECT INSPECTOR AND TESTING AGENCY
BY THE SCHOOL DISTRICT AND APPROVED BY D.S.A. A/E OF RECORD AND STRUCTURAL ENGINEER CODE 4-335
- COST OF THE PROJECT INSPECTOR (CA ADMIN. CODE 4-333(B) AND TESTING AGENCY (CA ADMIN. CODE 4-335)
BY THE SCHOOL DISTRICT
- COPIES OF THE REPORT TO
ARCHITECT; STRUCTURAL ENGINEER; SCHOOL DISTRICT; D.S.A. (ORIGINAL); IOR; MANUFACTURER

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

- PER TITLE 24, PART 1, SECTION 4-316 (D & E) OF THE CALIFORNIA CODE OF REGULATIONS, THE DISTRICT SHALL HIRE AN ARCHITECT OR STRUCTURAL ENGINEER TO BE IN GENERAL RESPONSIBLE CHARGE OF SITE SPECIFIC PROJECT.
- FOR SITE SPECIFIC PROJECT GERARD HOMER & ASSOCIATES IS NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
- FOR SITE SPECIFIC PROJECT GERARD HOMER & ASSOCIATES RESPONSIBILITY IS LIMITED TO THE PREPARATION OF PLANS AND SPECIFICATIONS FOR A PORTION OF THE PROJECT AS DESIGNED BY THE ARCHITECT FOR INCORPORATION INTO THE PROJECT.
- STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM GERARD HOMER & ASSOCIATES RESPONSIBILITY FOR SITE SPECIFIC PROJECT.

SHADE STRUCTURE TESTING & INSPECTION GUIDELINE

THE DSA-103 GUIDELINES SHOWN ON THIS SHEET IS FOR ILLUSTRATION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF FUTURE PROJECT-SPECIFIC FORM DSA-103. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND THE EXAMPLE FORM DSA-103 IS TO BE CROSSED OUT ON THIS DRAWING.

DSA 103-22 LIST OF STRUCTURAL TESTS & SPECIAL INSPECTIONS - 2022 CBC

IMPORTANT: THIS FORM IS ONLY A SUMMARY LIST OF STRUCTURAL TESTS AND SOME OF THE SPECIAL INSPECTIONS REQUIRED FOR THE PROJECT. GENERALLY, THE STRUCTURAL TESTS AND INSPECTIONS NOTED ON THIS FORM ARE THOSE THAT WILL BE PERFORMED BY THE GEOTECHNICAL ENGINEER OF RECORD, LABORATORY OF RECORD, OR SPECIAL INSPECTOR. THE ACTUAL COMPLETE TEST AND INSPECTION PROGRAM MUST BE PERFORMED AS DETAILED ON THE DSA APPROVED DOCUMENTS. THE APPENDIX AT THE BOTTOM OF THIS FORM IDENTIFIES WORK NOT SUBJECT TO DSA REQUIREMENTS FOR SPECIAL INSPECTION OR STRUCTURAL TESTING. THE PROJECT INSPECTOR IS RESPONSIBLE FOR PROVIDING INSPECTION OF ALL FACETS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, SPECIAL INSPECTIONS NOT LISTED ON THIS FORM SUCH AS STRUCTURAL WOOD FRAMING, HIGH-LOW WOOD DAMPPROOFING, COLD-FORMED STEEL FRAMING, ANCHORAGE OF NON-STRUCTURAL COMPONENTS, ETC., PER TITLE 24, PART 2, CHAPTER 17A (2022 CBC).

*NOTE: UNDEFINED SECTION & TABLE REFERENCES FOUND IN THIS DOCUMENT ARE FROM THE CBC, OR CALIFORNIA BUILDING CODE.

NOTE: REFERENCES ARE TO THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE (CBC) UNLESS OTHERWISE NOTED.

TEST OR SPECIAL INSPECTION
SOILS
S1. GENERAL
a. VERIFY THAT: SITE HAS BEEN PREPARED PROPERLY PRIOR TO PLACEMENT OF CONTROLLED FILL AND/OR EXCAVATIONS FOR FOUNDATIONS. FOUNDATION EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.
S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):
a. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH PIER.
b. VERIFY PIER LOCATIONS, DIAMETERS, PLUMBNESS & LENGTHS. RECORD CONCRETE OR GROUT VOLUMES.
c. CONCRETE PIERS
C1. CAST IN PLACE CONCRETE
MATERIAL VERIFICATION AND TESTING:
a. VERIFY USE OF REQUIRED DESIGN MIX.
b. DURING SAMPLE & TEST REINFORCING STEEL
c. IDENTIFY CEMENT PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, SLUMP & AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.
d. TEST CONCRETE (COMPRESSION). f' _c
e. BATCH PLANT INSPECTION - PERIODIC, DESIGN COMPLIES WITH 1705A.3.3.1 ITEM 2.
STEEL
S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL & ALUMINUM USED FOR STRUCTURAL PURPOSES
MATERIAL VERIFICATION & TESTING:
a. VERIFY IDENTIFICATION OF ALL MATERIALS AND: MATERIALS IDENTIFY INDICATE MATERIAL PROPERTIES THAT COMPLY WITH REQUIREMENTS. MATERIALS, TYPES AND GRADES COMPLY WITH REQUIREMENTS.
b. TEST UNFINISHED MATERIALS
c. EXAMINE BEAM WEBS OF I-BEAMS
d. VERIFY AND DOCUMENT STEEL FABRICATION PER DSA-APPROVED CONSTRUCTION DOCUMENTS.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

PRE-CHECK (PC) DOCUMENT
CODE: 2022 C.B.C.
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED.

SHEET INDEX

- GENERAL NOTES, SHEET INDEX & STRUCTURAL TESTS AND INSPECTIONS SHEET, OPTIONS TABLE & SITE SPECIFIC INFORMATION TABLE
- FOUNDATION PLAN, ROOF FRAMING PLAN, SECTION DETAILS
- BUILDING DATA

A-2 FOR LUNCH SHELTER
A-3 FOR LUNCH SHELTER
I-B CONSTRUCTION
ALL-ON AREA = 4800 SQ.FT.
HEIGHT = 8'-0" MIN. TO 16'-0" MAX. COLUMN HEIGHT

SHEET INDEX & STRUCTURAL TESTS AND INSPECTIONS SHEET

4K

SINGLE SLOPE LUNCH SHELTER OPTIONS TABLE									
ROOF PANEL OPTION		3 P.S.F. MISCELLANEOUS DEAD LOAD		NUMBER OF BAYS			NOTES		
AEP SPAN HR-36		YES		NO		ONE	THREE	FIVE	SEE 8K/59 FOR ROOF DECK PROFILES & SECTION PROPERTIES. ALL PANELS CAN BE USED WITH ALL LOADING OPTIONS.
McELROY MEGA-RIB		YES		NO		TWO	FOUR	SIX	
LOADING		WIND SPEED (1)		SEISMIC		MAXIMUM COLUMN HEIGHT			
20 PSF	M.P.H.	R.C.	PITCH	$S_{DS} \leq 1.0$		$\times 12'-6"$			
20 PSF	≤ 116	II	1.5 IN 12 OR LESS	HIGHER SEISMIC		$\times 14'-6"$			
30 PSF	≤ 129	II	1 IN 12 MAX.	R.C. II		$\times 16'-6"$			
30 PSF	≤ 124	II	0.5 IN 12 MAX.	LOWER SEISMIC		$\times 16'-6"$			
30 PSF	≤ 180	III	1.5 IN 12 OR LESS	R.C. III		$\times 25$			
				HIGHER SEISMIC		R.C. III			
				$S_{DS} \leq 2.5$		R.C. II		$S_{DS} > 1.75$	
						REDUCE BAY SPACING			
						R.C. III		$S_{DS} > 2.5$	
						REDUCE BAY SPACING			

SITE SPECIFIC INFORMATION TABLE			
SEISMIC COEFFICIENT, S_e	SEISMIC COEFFICIENT, S_1	SEISMIC COEFFICIENT, S_2	SEISMIC COEFFICIENT, S_3
0.245	0.245	0.245	0.245
1.269	1.269	1.269	1.269
2.1	2.1	2.1	2.1
0.738	0.738	0.738	0.738
0.772	0.772	0.772	0.772
0.412	0.412	0.412	0.412
0.515	0.515	0.515	0.515
0.515	0.515	0.515	0.515
1 FOR THE SITE CLASS D, S_{m1} SHALL BE INCREASED BY 30% UNLESS A SITE SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED. S_{m5} SHALL NOT BE LESS THAN S_{m1} . 2 FOR SITE CLASS E WITH S_1 GREATER THAN OR EQUAL TO 0.2, PROVIDED T IS LESS THAN OR EQUAL TO T_n , EQUATION 12.8-2 SHALL BE USED. 3 PER ASCE 7-16 EQUATION 12.8-2.			
SEISMIC COEFFICIENT, S_{m1} SEISMIC COEFFICIENT, S_{m2} SEISMIC COEFFICIENT, S_{m3} SEISMIC COEFFICIENT, S_{m4} SEISMIC COEFFICIENT, S_{m5}			
HAZARDOUS REPORTS HAZARDOUS REPORT REQUIRED ☒ NOT REQUIRED ☐ HAZARDOUS REPORTS ARE NOT REQUIRED FOR CANTILEVERED COLUMN OPEN STRUCTURES PROVIDED THEY ARE CONSTRUCTED OF METAL, DO NOT EXCEED 4,000 SF. IN PLAN AREA AND ARE NOT LOCATED WITHIN STATE OR LOCAL HAZARDOUS ZONES. THE STRUCTURES MAY BE SPLIT INTO MULTIPLE SEISMICALLY SEPARATED STRUCTURES TO STAY BELOW THE 4,000 SF. TRIGGER. CONCRETE EXPOSURE F0 ☒ CONCRETE EXPOSURE F2* ☐			
LIQUEFIABLE SOIL OR SITE CLASS F OR E LIQUEFIABLE SOILS YES ☒ NO ☐ IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.			

* F2 IS REQUIRED FOR ANY SNOW LOAD 30 PSF OR GREATER.

** LIST ACTUAL S_{de} AND CAPPED VALUE IN () IF USED.

IF SITE SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED & SIGNED FROM A SOILS ENGINEER IS REQUIRED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED ON THIS P.C., SEE GENERAL NOTE NUMBER 11.

SCALE 1/4" = 1'-0"

8K

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123568 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2025

PROJECT: SINGLE SLOPE (DOUBLE POST) SCHOOL LUNCH SHELTER
VALLEY SCHOOL SHELTERS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123568 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 9/25/2023

16765 SPYERT SCHOOL RD.
HOLLAND, TX. 76634
PH: (559) 734-6675
Email: ghomerse@gmail.com

Gerard Homer and Associates
STRUCTURAL ENGINEERS

DWN BY: B.B.H. CHKD BY: B.B.H.
DATE: 4/20/23

PROJECT NO: 23014411125
25000 25000
DRAWING TITLE

GENERAL NOTES
SHEET INDEX & STRUCTURAL TESTS AND INSPECTIONS SHEET
OPTIONS TABLE & SITE SPECIFIC INFORMATION TABLE

SHEET NUMBER

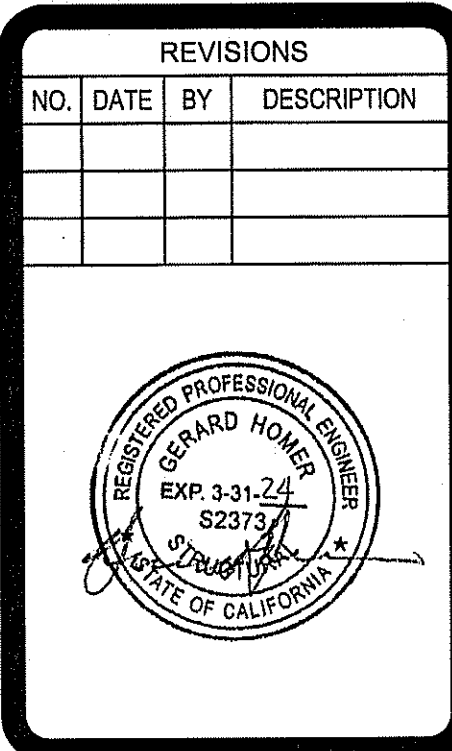
S1

OF 3 SHEETS

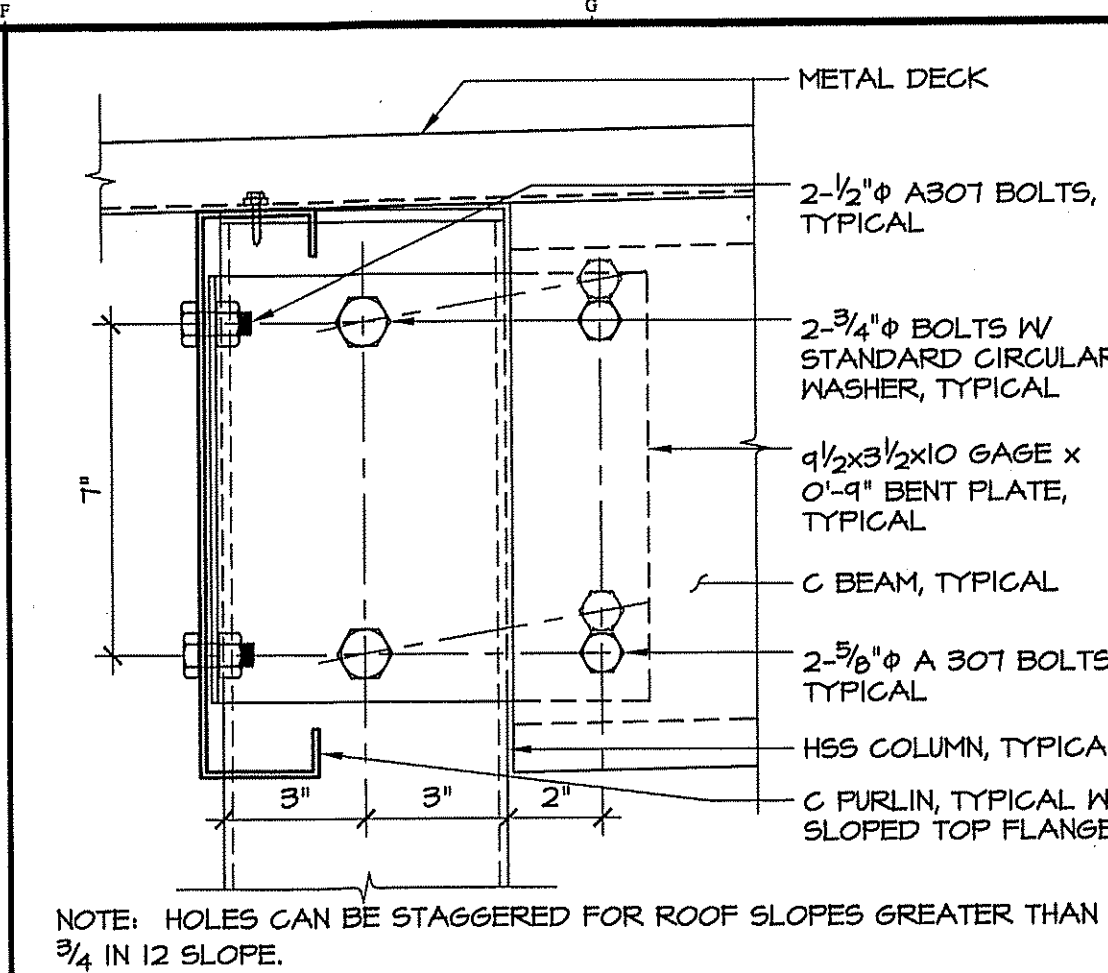
PROJECT: CAMELLIA BASIC ELEMENTARY SCHOOL - PC SHADE STRUCTURE

BEAM & PURLIN TABLE			
(RISK CATEGORY)	LOADING	BEAM "A"	PURLIN "B"
(RISK CATEGORY II) SEE NOTE 3	20 PSF LL/SL	C10x3x12 GAGE	C12x2 1/4x14 GAGE
	30 PSF SL	C10x3x10 GAGE	C12x2 1/4x12 GAGE
(RISK CATEGORY III) SEE NOTE 3	20 PSF LL/SL	C10x3x12 GAGE	C12x2 1/4x14 GAGE
	30 PSF SL	C10x3x10 GAGE	C12x2 1/4x12 GAGE

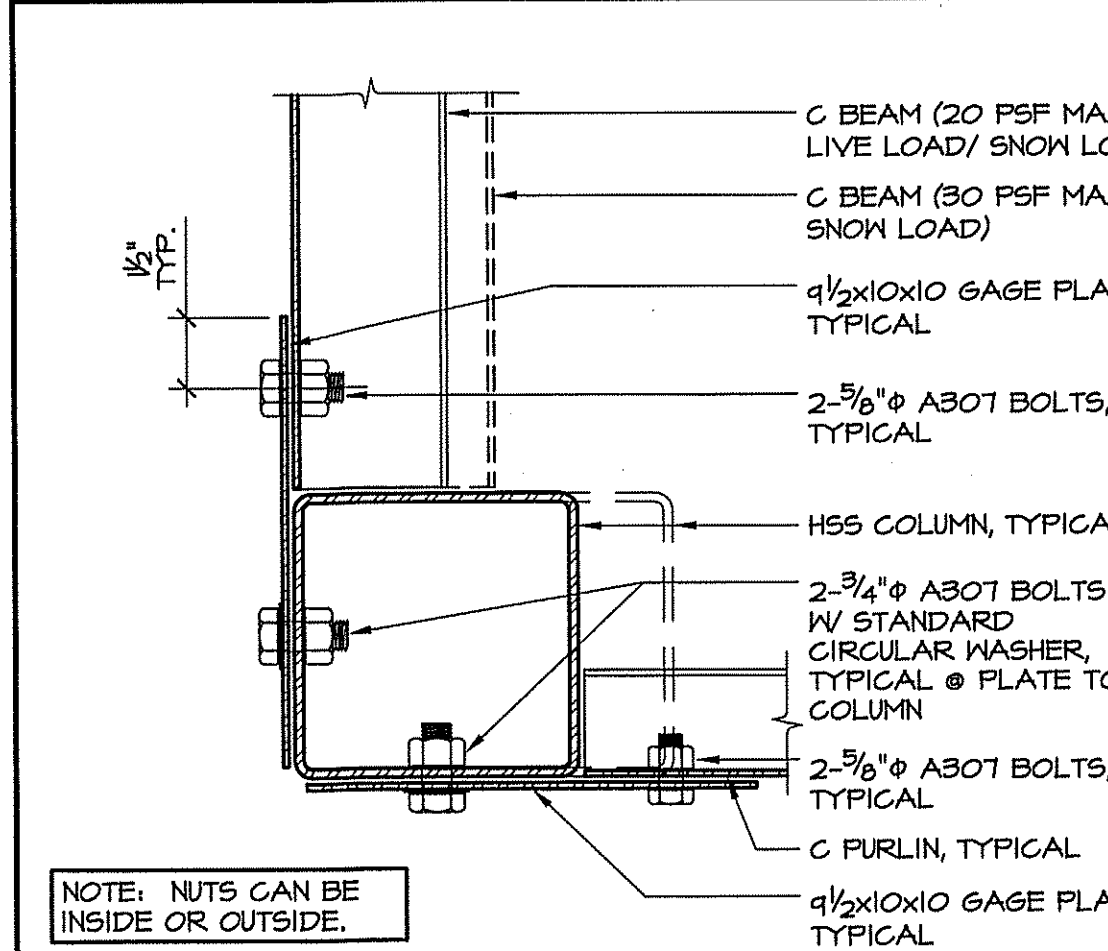
- NOTES:
- RISK CATEGORY IS PER CBC 1604A.5.
 - SEE 8K/53 FOR SECTION PROPERTIES OF BEAMS.
 - SEE SITE SPECIFIC TABLE TO DETERMINE RISK CATEGORY.



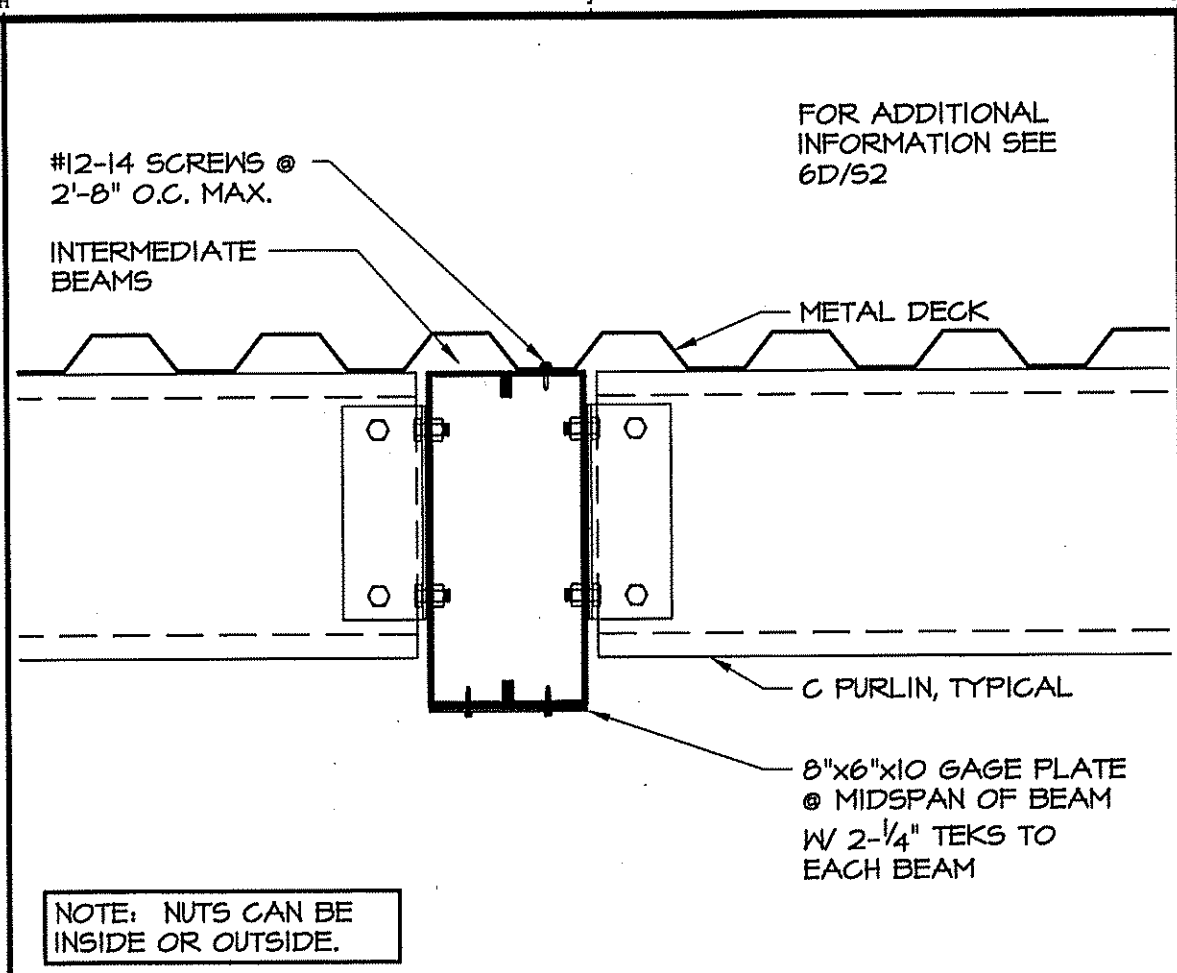
PRE-CHECK (PC) DOCUMENT
CODE: 2022 C.B.C.
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED.



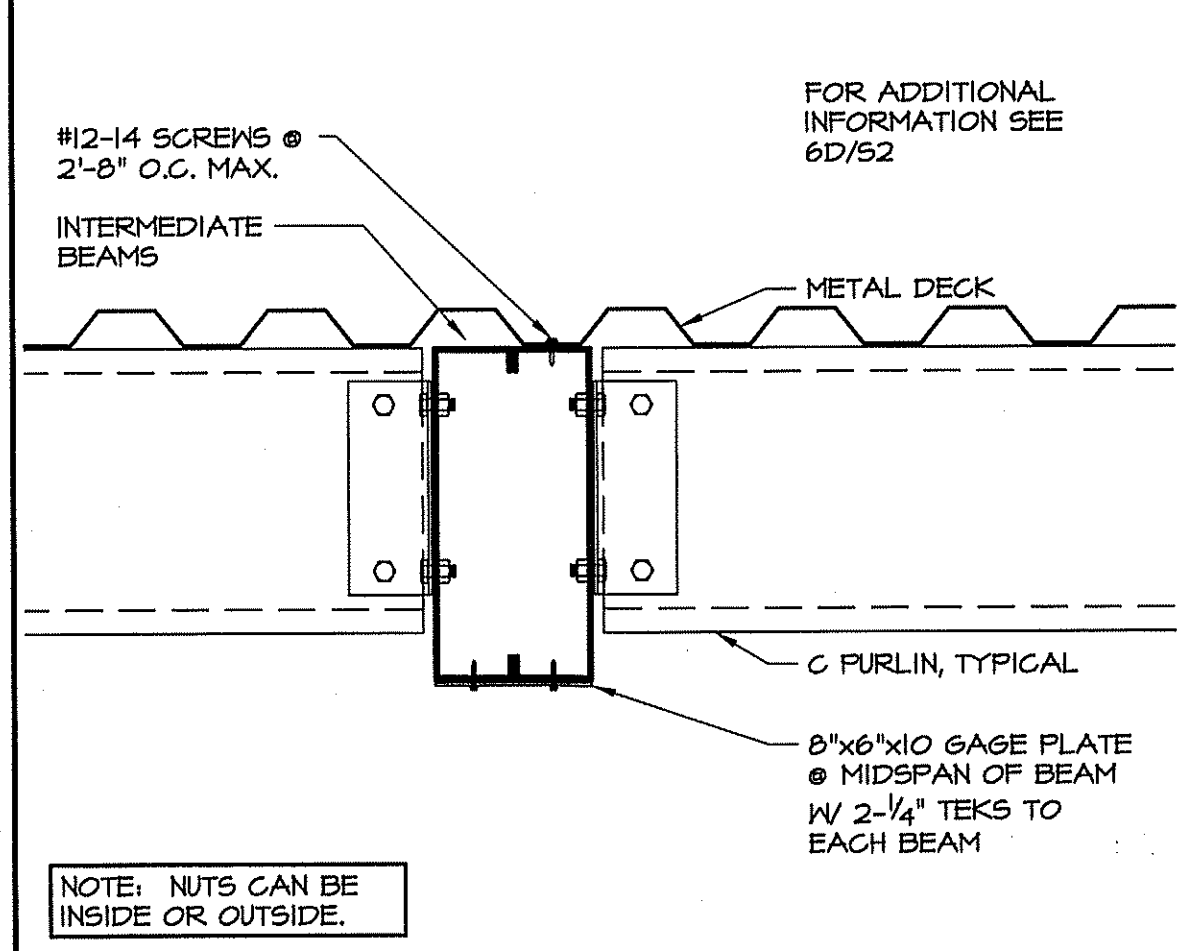
BEAM TO COLUMN SCALE 3" = 1'-0" 2H



BEAM TO COLUMN @ CORNER SCALE 3" = 1'-0" 4H



BEAM TIE @ MIDSPAN SCALE 1/2" = 1'-0" 2K

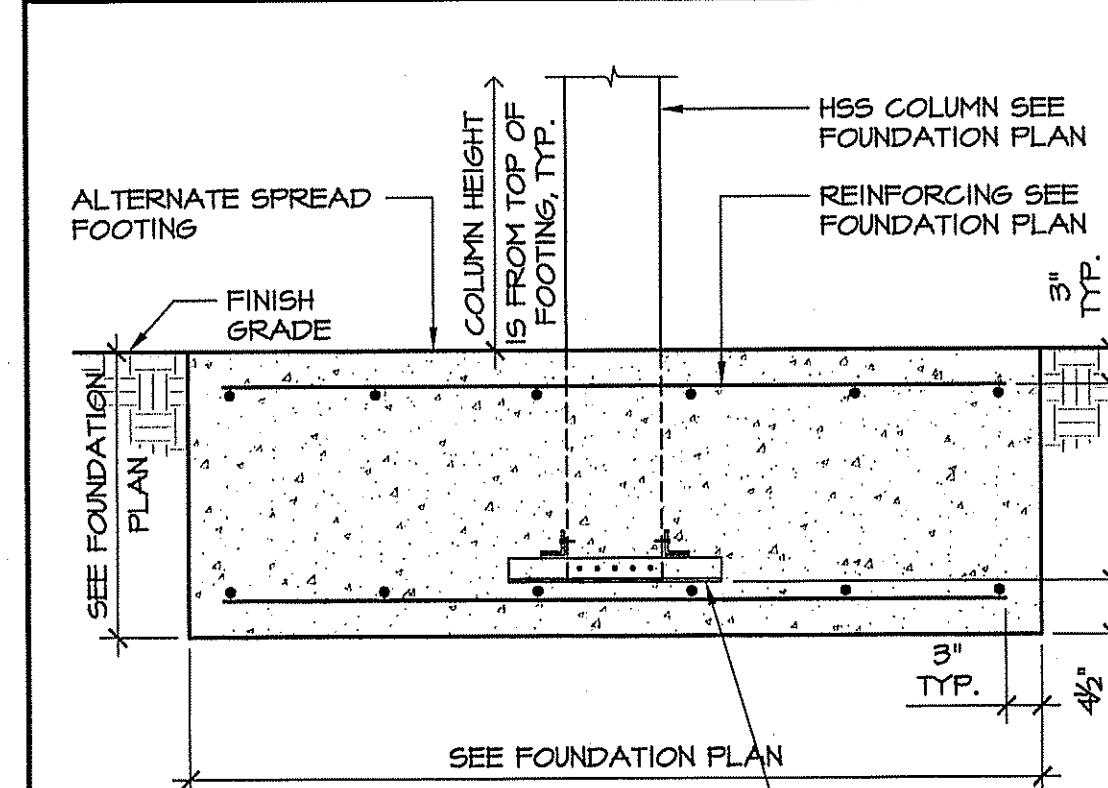


BEAM TO COLUMN SCALE 1/2" = 1'-0" 4K

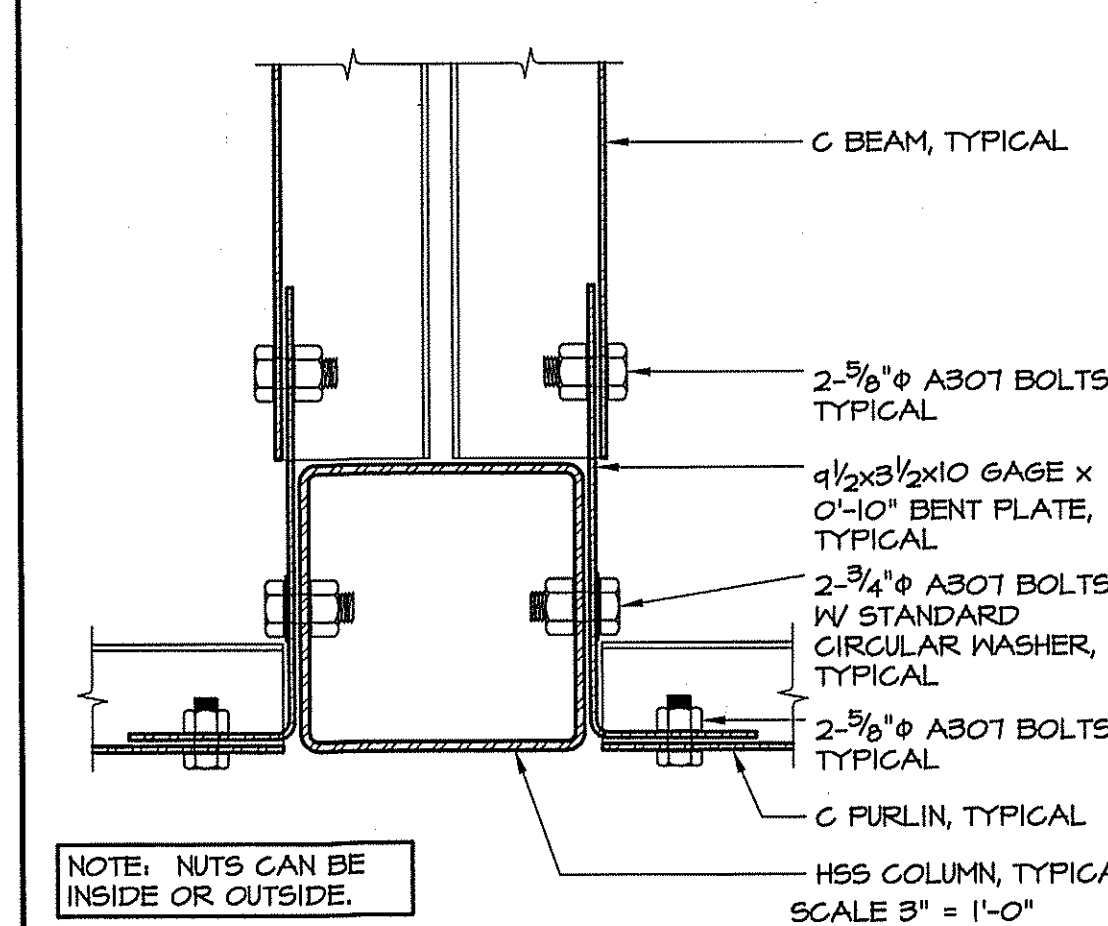
COLUMN & FOOTING TABLE							
COLUMNS HEIGHT	LOADING	LOWER SEISMIC (S _{DS} ≤ 1.0)			HIGHER SEISMIC (S _{DS} ≤ 1.75 MAX.) (15)		
		COLUMN	PILE FOOTING	1 & 10 ALTERNATE SPREAD FOOTING	COLUMN	PILE FOOTING	1 & 10 ALTERNATE SPREAD FOOTING
(RISK CATEGORY II)	20 PSF LL	HSS6x6x3/16	1'-6"φx8'-0"	6'-4" SQ.X2'-0"(9)	HSS6x6x3/16(5)	1'-6"φx10'-8"	7'-0" SQ.X2'-4"(9)
	20 PSF SL	HSS6x6x3/16(4)	1'-6"φx8'-4"				
	30 PSF SL	HSS6x6x3/16(4)	1'-6"φx10'-8"				
	OPTIONAL MISC DEAD LOAD	HSS6x6x3/16	1'-6"φx10'-8"	7'-0" SQ.X2'-4"(9)	HSS6x6x3/16(5)	1'-6"φx11'-4"	7'-9" SQ.X2'-4"(9)
(RISK CATEGORY II)	20 PSF LL	HSS6x6x1/4	1'-6"φx8'-0"	6'-4" SQ.X2'-0"(9)	HSS6x6x3/16(5)	1'-6"φx10'-2"	7'-3" SQ.X2'-4"(9)
	20 PSF SL	HSS6x6x1/4	1'-6"φx8'-4"				
	30 PSF SL	HSS6x6x1/4(4)	1'-6"φx10'-8"				
	OPTIONAL MISC DEAD LOAD	HSS6x6x1/4	1'-6"φx10'-8"	7'-0" SQ.X2'-4"(9)	HSS6x6x3/16(5)	1'-6"φx11'-4"	8'-2" SQ.X2'-4"(9)
(RISK CATEGORY II)	20 PSF LL	HSS6x6x1/4	1'-6"φx8'-0"	6'-4" SQ.X2'-0"(9)	HSS6x6x1/4(5)	1'-6"φx10'-6"	7'-6" SQ.X2'-4"(9)
	20 PSF SL	HSS6x6x1/4	1'-6"φx8'-4"				
	30 PSF SL	HSS6x6x3/16(4)	1'-6"φx10'-8"				
	OPTIONAL MISC DEAD LOAD	HSS6x6x1/4	1'-6"φx10'-8"	7'-0" SQ.X2'-4"(9)	HSS6x6x3/16(6)	1'-6"φx12'-0"	8'-6" SQ.X2'-4"(10)
(RISK CATEGORY III)	20 PSF LL	HSS6x6x3/16	1'-6"φx8'-4"	6'-10" SQ.X2'-0"(9)	HSS6x6x3/16(5)	1'-6"φx12'-3"	9'-0" SQ.X2'-4"(10)
	20 PSF SL	HSS6x6x1/4(5)	1'-6"φx11'-4"				
	30 PSF SL	HSS6x6x3/16	1'-6"φx10'-0"	7'-6" SQ.X2'-4"(9)	HSS6x6x3/16(7)	1'-6"φx14'-3"	9'-10" SQ.X2'-6"(11)
	OPTIONAL MISC DEAD LOAD	HSS6x6x1/4	1'-6"φx10'-0"	7'-6" SQ.X2'-4"(9)	HSS6x6x3/16(6)	1'-6"φx14'-8"	10'-4" SQ.X2'-6"(11)
(RISK CATEGORY III)	20 PSF LL	HSS6x6x3/16	1'-6"φx9'-0"	6'-10" SQ.X2'-0"(9)	HSS6x6x3/16(6)	1'-6"φx13'-0"	9'-8" SQ.X2'-4"(10)
	20 PSF SL	HSS6x6x1/4(5)	1'-6"φx11'-4"				
	30 PSF SL	HSS6x6x3/16(5)	1'-6"φx11'-4"				
	OPTIONAL MISC DEAD LOAD	HSS6x6x3/16	1'-6"φx10'-8"	7'-6" SQ.X2'-4"(9)	HSS6x6x1/2(7)	2'-0"φx13'-6"	10'-10" SQ.X2'-6"(11)

MOVE COLUMN & FOOTING IN 1" FROM COLUMN LINE SO OUTSIDE FACE OF COLUMN STILL ALIGN W/ CORNER COLUMN

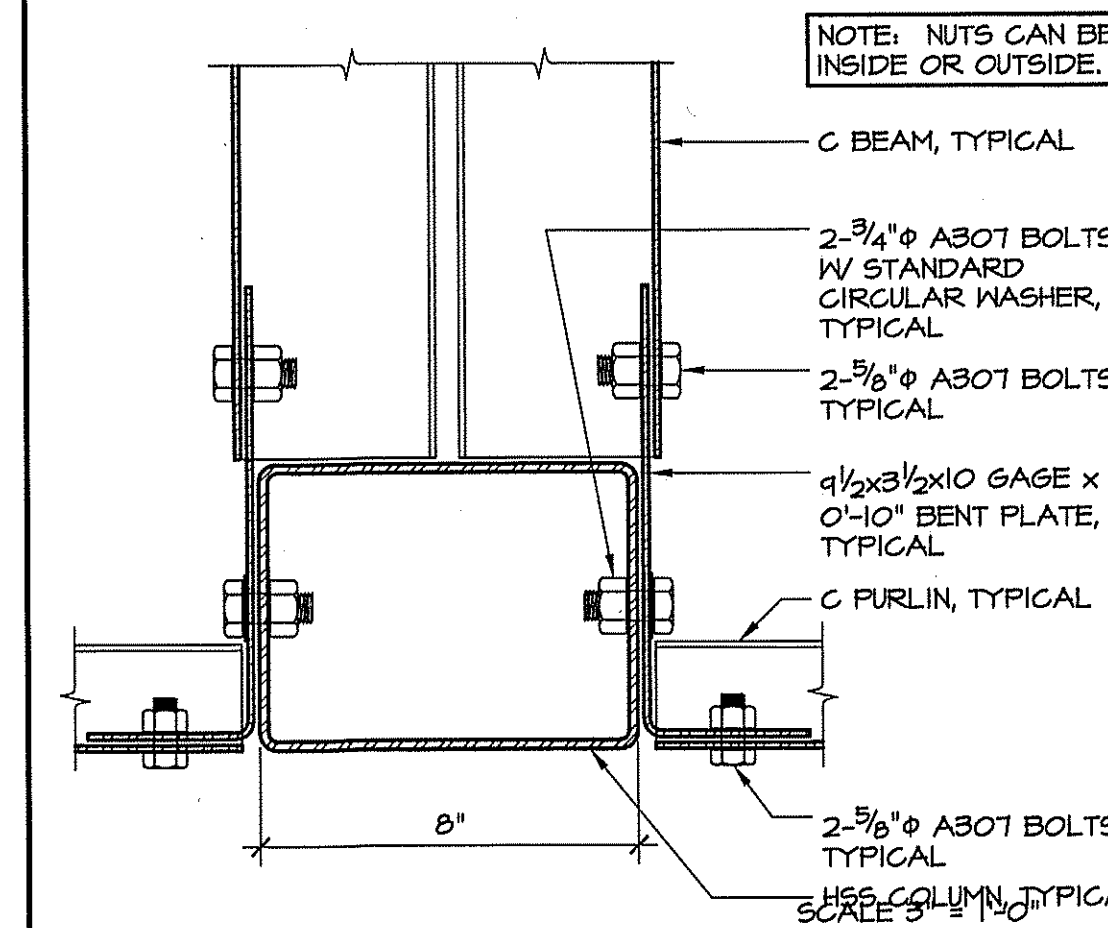
- NOTES:
- ALTERNATE SPREAD FOOTINGS ARE OPTIONAL FOOTINGS @ AN ADDITIONAL COST.
 - NO SNOW LOAD ALLOWED W/ 3 P.S.F. MISCELLANEOUS DEAD LOAD.
 - COLUMN EMBEDMENT OF PILE FOOTING TO EXTEND INTO FOOTING 6" MAX. FROM BOTTOM, SEE SECTION 4K/52.
 - AT CORNER COLUMN MAY USE HSS6x6x3/16.
 - AT CORNER COLUMN MAY USE HSS6x6x3/16.
 - AT CORNER COLUMN MAY USE HSS6x6x1/4.
 - AT CORNER COLUMN MAY USE HSS6x6x3/16.
 - USE 6-#5 REBARS EACH WAY @ TOP & BOTTOM OF FOOTING W/ 3" MIN. COVER. KEEP COLUMN 4 1/2" CLEAR FROM BOTTOM OF FOOTING.
 - USE 8-#5 REBARS EACH WAY @ TOP & BOTTOM OF FOOTING W/ 3" MIN. COVER. KEEP COLUMN 4 1/2" CLEAR FROM BOTTOM OF FOOTING.
 - USE 10-#5 REBARS EACH WAY @ TOP & BOTTOM OF FOOTING W/ 3" MIN. COVER. KEEP COLUMN 4 1/2" CLEAR FROM BOTTOM OF FOOTING.
 - USE 12-#5 REBARS EACH WAY @ TOP & BOTTOM OF FOOTING W/ 3" MIN. COVER. KEEP COLUMN 4 1/2" CLEAR FROM BOTTOM OF FOOTING.
 - USE 4-L 2x2x3/16x3'-6" LONG ANGLES @ BOTTOM OF COLUMN, EACH W/ 5-1/4-14 TEKS SCREWS TO COLUMN, SEE 8F/53.
 - IF SITE SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS REQUIRED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED ON THIS P.C., SEE GENERAL NOTES NUMBER II.
 - MINIMUM PIER SPACING IS 3 DIAMETERS PER CBC 180A.2.5.
 - S_{DS} MAXIMUM OR REDUCE BAY SPACING, SEE SITE SPECIFIC INFORMATION TABLE ON SHEET 51.



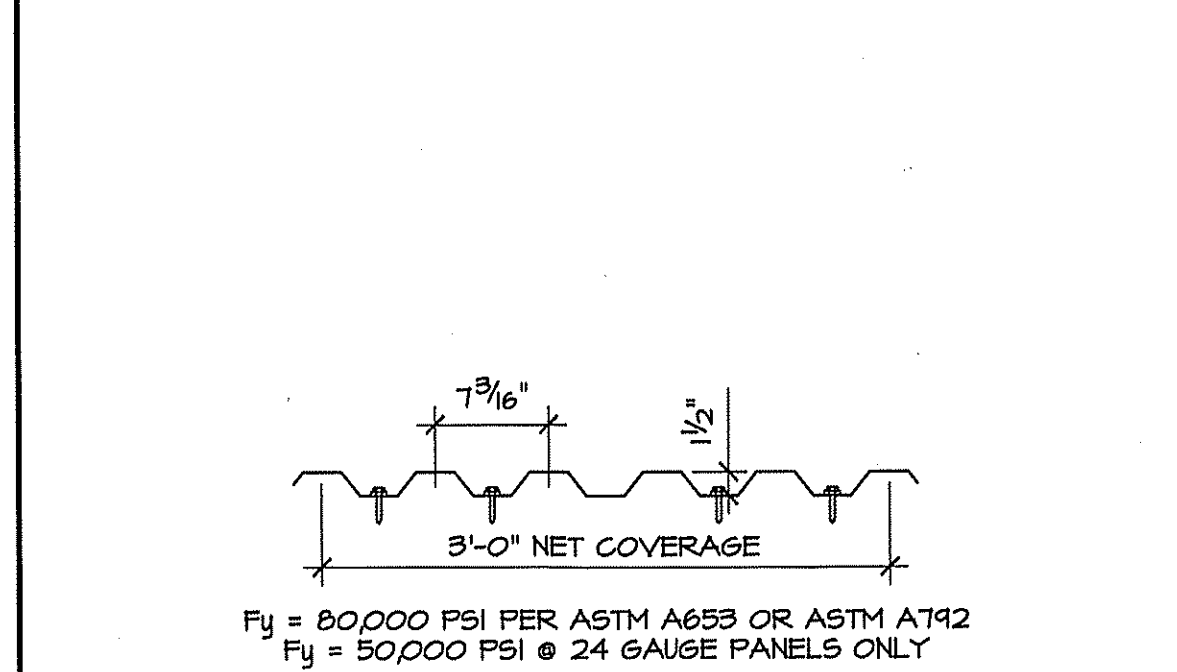
OPTIONAL SPREAD FOOTING @ ADDITIONAL COST SCALE 3/4" = 1'-0" 8D



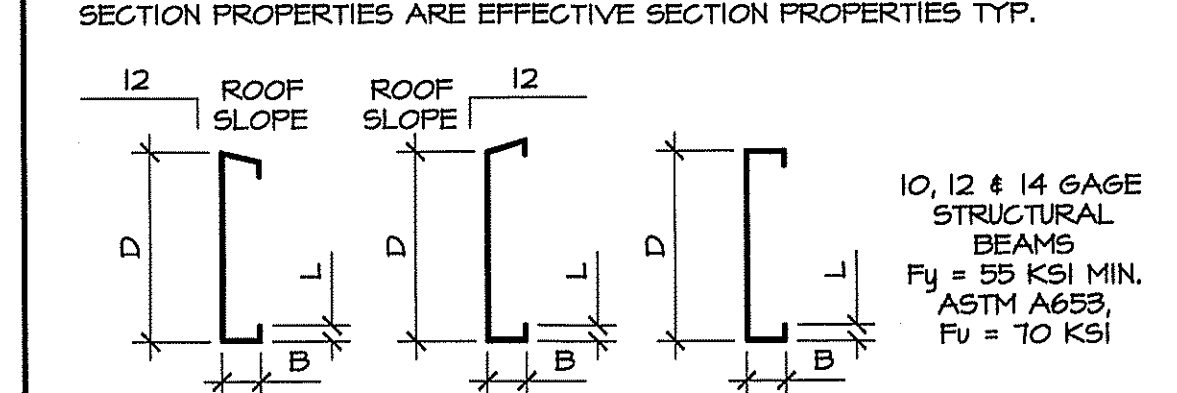
BEAM TO COLUMN @ INTERMEDIATE LOCATION (20 PSF MAX. LIVE LOAD/ SNOW LOAD) SCALE 3" = 1'-0" 6H



BEAM TO COLUMN @ INTERMEDIATE LOCATION (30 PSF MAX. SNOW LOAD) SCALE 3" = 1'-0" 8F



AEP SPAN HR-36 SECTION PROPERTIES					
GAUGE	WT. (lbs./ft.)	I _x (in. ⁴ /ft.)	S _x (in. ³ /ft.)	I _y (in. ⁴ /ft.)	S _y (in. ³ /ft.)
24	1.2	0.116	0.1234	0.141	0.1156
26	0.98	0.0825	0.0895	0.0838	0.0834



CEE SECTION PROPERTIES					
SECTION	GAUGE	HEIGHT	AXIS X-X	AXIS Y-Y	L
C12x2 1/4	14	4.28	0.629	24.153	3.524
C12x2 1/4	12	6.43	1.134	35.934	5.989
C17x3	12	8.57	1.185	83.417	8.837
C17x3	10	10.98	1.762	113.65	12.634
C18x3	12	9.02	1.256	98.643	9.909

MATERIAL PROPERTIES TABLES 8K

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123568 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2025

PROJECT: SINGLE SLOPE (DOUBLE POST) SCHOOL LUNCH SHELTER
VALLEY SCHOOL SHELTERS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123568 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 9/25/2023

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STRUCTURAL ENGINEERS

DWN BY: B.S.H. CHKD BY: B.S.H.
DATE: 9/20/23
PROJECT NO: 23014
DRAWING TITLE: TABES & DETAILS
SHEET NUMBER: 53 OF 3 SHEETS

PROJECT: CAMELLIA BASIC ELEMENTARY SCHOOL - PC SHADE STRUCTURE