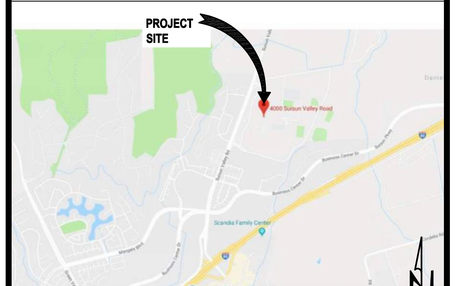
ABBREVIATIONS LIST

A:	
&	AND
A.B.	ANCHOR BOLT
A.C.	ASPHALT CONCRETE
A/C	AIR CONDITIONING
ACC.	ACCESSIBLE
ACOUST.	ACOUSTICAL
A.A.	AREA DRAIN
ADJ.	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
AGGR.	AGGREGATE
ALUM.	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECT(URAL)
B:	
B&B	BOARD AND BATTEN
BD.	BOARD
BLDG.	BUILDING
BLK'G.	BLOCKING
BM.	BEAM
B.M.	BENCH MARK
BTTM.	BOTTOM
B.U.R.	BUILT UP ROOFING
C:	
C.B.	CATCH BASIN
C.I.	CAST IRON
C.J.	CONSTRUCTION JOINT
CLF	CHAIN LINK FENCE
CLG.	CEILING
CLR.	CLEAR
CLKG.	CAULKING
CNTR.	COUNTER
C.O.	CLEAN OUT
COL.	COLUMN
CONC.	CONCRETE
COND.	CONDITION
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
C.O.T.G.	CLEAN OUT TO GRADE
C.A.	CONTROL POINT
CTSK.	COUNTERSUNK
D:	
DBL.	DOUBLE
D.F.	DRINKING FOUNTAIN
DEPT.	DEPARTMENT
DTL.	DETAIL
D.I.	DROP INLET
DIAG.	DIAGONAL
DIM.	DIMENSION
DN.	DOWN
DR.	DOOR
D.S.	DOWN SPOUT
D.S.P.	DRY STANDPIPE
DWG.	DRAWING
E:	
E	EAST
(E)	EXISTING
EA.	EACH
E.D.F.	ELECTRIC DRINKING FOUNTAIN
E.F.	EXHAUST FAN
E.J.	EXPANSION JOINT
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EMER.	EMERGENCY
ENCL.	ENCLOSURE
E.P.	ELECTRICAL PANEL
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.W.	EACH WAY
EXPO.	EXPOSED
EXP.	EXPANSION
EXT.	EXTERIOR
F:	
F.A.	FIRE ALARM
F.B.	FLAT BAR
F.C.	FRAMING CLIP
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.F.	FINISH FACE
F.E.	FIRE EXTINGUISHER
F.L.	FLOW LINE
FLR.	FLOOR
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.W.	FACE OF WALL
F.P.	FIREPROOF
F.R.P.	FIBERGLASS REINFORCED PANEL
F.O.S.	FACE OF STUD
F.S.D.	FIRE SMOKE DAMPER
FT.	FOOR OR FEET
FTG.	FOOTING
F.V.	FIELD VERIFY
G:	
GA.	GAUGE
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
G.I.	GALVANIZED IRON
GLU-LAM	GLUE LAMINATER
GND.	GROUND
GYP. BD.	GYPSUM WALLBOARD
H:	
H.B.	HOSE BIB
H.C.	HOLLOW CORE
HDWD.	HARDWOOD
HDBD.	HARDBOARD
HDWE.	HARDWARE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HR.	HOUR
HT.	HEIGHT
I-J-K-L:	
I.D.	INSIDE DIAMETER
I.E.	INVERT ELEVATION
ISA	INTERNATIONAL SYMBOL OF ACCESSIBILITY
INSUL.	INSULATION
INT.	INTERIOR
J.B.	JUNCTION BOX
J.H.	JOIST HANGER
JT.	JOINT
KIT.	KITCHEN
LAB.	LABORATORY
LAM.	LAMINATE
LAV.	LAVATORY
LT.	LIGHT
L.H.	LEFT HAND
M:	
MAX.	MAXIMUM
M.C.	MEDICINE CABINET
MECH.	MECHANICAL
MEMB.	MEMBRANE
MFR.	MANUFACTURER
M.H.	MANHOLE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MTL.	METAL
N:	
N.	NORTH
(N)	NEW
N.I.C.	NOT IN CONTRACT
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O:	
OBS.	OBSCURE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OVERHEAD OR OVERHANG
OPNG.	OPENING
OPP.	OPPOSITE
O/	OVER
P:	
PART.	PARTITION
P.B.	PANIC BAR
P.L.	PROPERTY LINE
P.LAM.	PLASTIC LAMINATE
PLAS.	PLASTER
PLYWD.	PLYWOOD
P.M.	PRESSED METAL
P.O.C.	POINT OF CONNECTION
PR.	PAIR
PROP.	PROPERTY
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
Q-R	
Q.T.	QUARRY TILE
R.	RISER
RAD.	RADIUS
R.D.	ROOF DRAIN
R.E.	RIM ELEVATION
REBAR	REINFORCING BAR
REF.	REFERENCE
REQ'D.	REQUIRED
RM.	ROOM
R.O.	ROUGH OPENING
RWD.	REDWOOD
R.W.L.	RAIN WATER LEADER
S:	
S.	SOUTH
S.B.	SPLASH BLOCK
S.D.	STORM DRAIN
SEC.	SECURITY
S.C.	SOLID CORE
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SHTG.	SHEATHING
SIM.	SIMILAR
S.M.	SHEET METAL
S.M.S.	SHEET METAL SCREW
SPEC'S.	SPECIFICATIONS
SQ.	SQUARE
S.STL.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
S.T.S.M.S.	SELF TAPPING SHEET METAL SCREW
S.S	SANITARY SEWER
S/S	SERVICE SINK
SUSP.	SUSPENDED
SYM.	SYMMETRICAL
T:	
T.O.C.	TOP OF CURB
T&G	TOUNGE & GROOVE
T.O.C.	TOP OF CONCRETE
T.O.F.	TOP OF FRAMING
T.O.S.	TOP OF STEEL
TOT.	TOTAL
T.O.W.	TOP OF WALL
T.P.	TOP OF PAVING
TS	STRUCTURAL TUBE
TYP.	TYPICAL
U:	
U.N.O.	UNLESS NOTED OTHERWISE
UNF.	UNFINISHED
V:	
V.C.T.	VINYL COMPOSITION TILE
V.C.F.	VINYL COATED FABRIC
VEN.	VENDER
VERT.	VERTICAL
V.T.B.	VINYL TABK BOARD
V.W.C.	VINYL WALL COVERING
W:	
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
W.H.	WATER HEATER
W.M.	WATERPROOF MEMBRANE
W/O	WITHOUT
W.R.	WATER RESISTANT
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC

SYMBOLS LEGEND

- CONCRETE
- CONCRETE BLOCK
- A.C. PAVING
- CERAMIC TILE OR BRICK
- SAND MORTAR OR PLASTER
- AGGREGATE
- EARTH
- METAL
- PLYWOOD
- GYPSUM BOARD
- GLASS
- WOOD FRAMING (CONT. MEMBER)
- WOOD FRAMING (BLOCKING)
- WOOD MEMBER (FINISHED)
- INSULATION
- ROOM NUMBER
- WINDOW TYPE
- DOOR NUMBER
- GRID LINE/NUMBER
- GRID CENTER LINE/NUMBER
- SECTION NUMBER / SHEET WHERE SECTION IS DRAWN
- DETAIL NUMBER / SHEET WHERE DETAIL IS DRAWN
- LOCATION NUMBER / SHEET WHERE ENLARGED PLAN IS DRAWN
- ELEVATION NUMBER / SHEET WHERE ELEVATION IS DRAWN
- EQUIPMENT NUMBER
- PARTITION TYPE
- KEYNOTE
- REVISION NUMBER
- MATCH LINE
- DATUM, WORK OR CONTROL NUMBER
- ANGLE
- DIAMETER OR ROUND
- PERPENDICULAR
- POUND OR NUMBER
- CENTERLINE
- PLATE OR PROPERTY LINE

VICINITY MAP



NOT TO SCALE

OWNER

SOLANO COMMUNITY COLLEGE DISTRICT
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA 94534
CONTACT: JASON YI
PHONE: (707) 864-7257
EMAIL: jason.yi@solano.edu

ARCHITECT

HMR ARCHITECTS
2130 21st STREET
SACRAMENTO CA 95818
CONTACT: BRYAN FAWKES
OFFICE: (916) 736-2724
EMAIL: bryanf@hmrarchitects.com

PC MANUFACTURER

VALLEY SCHOOL SHELTERS
TULARE, CA 93275
(530) 410-5436
CONTACT: GARY KIMBROUGH
EMAIL: gary@parkplanet.com

NOTE

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE CONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS.

SHOULD ANY CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE THESE DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK, SHALL BE SUBMITTED TO AND APPROVED BY DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

INSPECTOR

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION 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, CCR. CLASS 2 INSPECTOR REQUIRED.

DEFERRED APPROVAL

1. GENERAL CONTRACTOR SHALL IMMEDIATELY UPON NOTICE OF SELECTION,PREPARE A SITE SAFETY PLAN (SSP) IN ACCORDANCE WITH THE REQUIREMENTS OF CFC CHAPTER 33. THIS SSP SHALL BE REVIEWED BY THE LOCAL FIRE AUTHORITY FOR APPROVAL AND DELIVERED TO THE A.O.R. FOR SUBMISSION TO DSA PRIOR TO MOBILIZATION OR THE START OF ANY CONSTRUCTION.

GENERAL NOTES

1. ALL WORK IS NEW UNLESS SPECIFICALLY NOTED AS EXISTING. ALL WORK SHALL BE BY G.C. UNLESS SPECIFICALLY NOTED BY OWNER, BY OTHERS, OR BY N.I.C.
2. CONTRACTOR SHALL VISIT THE SITE PRIOR TO HIS BID TO DETERMINE ACTUAL JOB SITE CONDITIONS AND REQUIRED EXTENT OF WORK FOR THIS PROJECT.
3. CONTRACTOR SHALL VERIFY SOLANO COMMUNITY COLLEGE DISTRICT (S.C.C.D.) REQUIREMENTS FOR WORK HOURS, ETC. WITH S.C.C.D. PROJECT MANAGER PRIOR TO BIDDING AND COMMENCEMENT OF WORK. CONTRACTOR SHALL COMPLY WITH ALL S.C.C.D. REQUIREMENTS.
4. CONTRACTOR SHALL PROVIDE A JOB SITE PHONE & EMAIL WITHIN 5 WORKING DAYS AND INFORM ARCHITECT OF PHONE NUMBER AT CONSTRUCTION KICK-OFF MEETING. G.C. SHALL MAINTAIN A COMPUTER W/ EMAIL CAPABILITIES ON SITE AT ALL TIMES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND NOTING ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS PRIOR TO BIDDING THE PROJECT. CONTRACTOR SHALL CONTACT ARCHITECT FOR RESOLUTION PRIOR TO PROCEEDING WITH RELATED WORK. OTHERWISE, CONTRACTOR IS RESPONSIBLE FOR CORRECTIONS AT NO EXTRA COST TO OWNER.
6. G.C. SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ALL FINISH MATERIALS & EQUIPMENT AS SPECIFIED HEREIN. ANY DEVIATION IN COST DUE TO SHIPPING DELAYS, MATERIAL UPGRADES, SHALL BE BORN BY THE G.C. ALL MATERIALS NOT IDENTIFIED AS PROBLEMS PRIOR TO BID, SHALL BE THE RESPONSIBILITY OF THE G.C. TO SUPPLY AS NOTED ON THE BID FORM.
7. ALL DEMOLITION IS INCLUDED IN THE BASE BID. CONTRACTOR SHALL PROVIDE ALL DEMOLITION NECESSARY TO COMPLETE ALL NEW WORK AS INDICATED ON THE PLANS.
8. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL ADJACENT WORK AND SHALL COORDINATE WITH ALL OTHER TRADES SO AS TO FACILITATE THE GENERAL PROGRESS OF THE WORK. EACH TRADE SHALL AFFORD ALL OTHER TRADES EVERY REASONABLE OPPORTUNITY FOR THE INSTALLATION OF THEIR WORK AND FOR THE STORAGE OF THEIR MATERIAL.
9. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND QUANTITIES OF ITEMS TO BE REMOVED/REPLACED OR TO BE REINSTALLED PRIOR TO SUBMITTAL OF BID. G.C. SHALL NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES PRIOR TO THE BID DUE DATE FOR FURTHER CLARIFICATION - AS DEFINED IN BID INSTRUCTIONS.
10. G.C. WILL BE HELD RESPONSIBLE FOR COMPLETION OF ENTIRE WORK IN A MANNER/INTENT FOR THIS TYPE OF PROJECT REGARDLESS OF QUANTITIES SHOWN IN PLANS
11. ANY EXISTING ITEMS SHOWN WITHOUT NOTATION FOR REMOVAL SHALL BE PROTECTED THROUGHOUT DEMOLITION AND RENOVATIONS. G.C. WILL BE REQUIRED TO REPLACE ANY/ALL ITEMS TO REMAIN THAT ARE DAMAGED BY WORK AT NO ADDITIONAL COST TO S.C..C.D. AND ALSO AT A QUALITY LEVEL EQUAL TO OR EXCEEDING THE ORIGINAL CONDITIONS.
12. SEE ALSO ENGINEERED DRAWINGS FOR FULL EXTENT OF THE DEMOLITION WORK.
13. ITEMS SHOWN TO BE REMOVED SHALL BE DISPOSED OF PROPERLY BY THE G.C. UNLESS OTHERWISE NOTED.
14. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
15. SUBSTITUTION OF PRODUCTS OR CONSTRUCTION PROCESS WHICH AFFECT THE STRUCTURAL SAFETY, FIRE AND LIFE-SAFETY, OR ACCESSIBILITY OF THIS PROJECT SHALL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL AS AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT.
16. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

SOLANO COMMUNITY COLLEGE
SHADE STRUCTURE REPLACEMENT @ BUILDING #200
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA 94534

PROJECT CODE DATA

DSA NUMBERS	APPLICATION #02-123096 FILE #48-C1
CODE	2022 CBC

CONSTRUCTION SHALL COMPLY WITH TITLE 24, CALIFORNIA CODE REGULATIONS, INCLUDING THE FOLLOWING:

2022 CALIFORNIA ADMINISTRATIVE CODE, CCR, TITLE 24, PART 1
2022 CALIFORNIA BUILDING CODE, VOL. 1 & 2, CCR, TITLE 24, PART 2
2022 CALIFORNIA FIRE CODE, CCR, TITLE 24, PART 9
2022 CALIFORNIA EXISTING BUILDING CODE, CCR, TITLE 24, PART 10
STATE FIRE MARSHAL REGULATIONS, CCR, TITLE 19, PUBLIC SAFETY

SHADE STRUCTURE CLASSIFICATIONS:

OCCUPANCY CLASSIFICATION AND USE:	E
BUILDING CONSTRUCTION TYPE:	IIB
NUMBER OF STORIES:	ONE STORY
SHADE STRUCTURE AREA IN SQUARE FEET: EACH SHADE STRUCTURE AREA:	224 SF TOTAL 896 SF
FIRE SPRINKLERED:	NO
FIRE ALARM :	NO
YEAR BUILDING WAS CONSTRUCTED:	2025
IS THE BLDG. IN A HIGH FIRE HAZARD SEVERITY ZONE:	NO

FIRE SAFETY CONSTRUCTION AND DEMOLITION SHALL COMPLY WITH CFC CHAPTER 33

ORIGINAL CONSTRUCTION OF BUILDING #200 CHILD CARE/DEVELOPMENT FACILITY = 1991 UBC

BUILDING CONSTRUCTION TYPE:	V-N
OCCUPANCY CLASSIFICATION AND USE:	E-3
BUILDING AREA:	9,562 SQ. FT. ACTUAL
ALLOWABLE AND AREA INCREASES:	9,100 + (2 SIDEYARDS @ 25" = 568'-9") = 9,668.75' > 9,562
OCCUPANCY CLASSIFICATION AND COUNT:	CLASSROOM @ 1/20 = 479
OCCUPANCY PER LICENSE REQ'MTS:	68 STUDENTS & 36 STAFF = 104

SCOPE OF WORK

PROJECT SCOPE:

1. INSTALL (4) 14'x17' 2-POST METAL SHADE STRUCTURES PER PC #02-121474
2. INSTALL CONCRETE FOUNDATIONS FOR SHADE STRUCTURES.
3. PROVIDE CONCRETE DEMOLITION AND REPLACEMENT OF CONCRETE PAVING AND SANDBOX WALLS AS REQUIRED FOR ACCESS TO SHADE STRUCTURE FOUNDATION AREAS.
4. PROVIDE SITE ACCESSIBILITY INTO (E) SAND BOXES.
5. PROVIDE CONCRETE CURBS AT NEW SAND BOX.

ACCESS COMPLIANCE REQUIREMENTS:

1. UPGRADE PARKING STALL STRIPPING TO CURRENT CODE.
2. UPGRADE ENTRANCE TO BUILDING FOR COMPLIANCE WITH 2022 CBC 11B REQUIREMENTS.
3. UPGRADE RESTROOM SERVING AREA OF WORK FOR COMPLIANCE WITH 2022 CBC 11B REQUIREMENTS.

THE PROJECT COST ESTIMATE IS BELOW THE VALUATION THRESHOLD AS DETERMINED BY DSA UNDER THE 2022 CALIFORNIA BUILDING CODE CHAPTER 2 DEFINITION OF VALUATION THRESHOLD. AS SUCH THE SCOPE OF WORK IS DEFINED ABOVE UNDER "PROJECT SCOPE". SCOPE TO PROVIDE AND ADDITIONAL +/- 20% OF THE PROJECT COST TO COMPLY WITH CA ACCESS COMPLIANCE IS DESCRIBED UNDER "ACCESS COMPLIANCE REQUIREMENTS" ABOVE.

ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC, AND THE WRITTEN SITE SAFETY PLAN.

SHEET INDEX - GENERAL CONTRACTOR

ARCHITECTURAL — FOR REFERENCE ONLY

SHEETS = 10

TOTAL GC SHEETS = 10
TOTAL PC DWGS = 4
TOTAL SHEETS WITH PC DWGS = 14

PC 02-121474 SHADE STRUCTURE SHEET INDEX

TOTAL PC SHEETS = 4

STATEMENT OF T-24 COMPLIANCE:
AS THE DESIGN PROFESSIONAL IN CHARGE, I HAVE VERIFIED THAT THE MODULAR BUILDING(S) LISTED ABOVE TO BE INSTALLED AT THE SOLANO COMMUNITY COLLEGE ARE LOCATED WITHIN THE CLIMATE ZONE 3, AND DESIGNED FOR ALL CLIMATE ZONES 1-16.

SIGNATURE OF THE ARCHITECT — C24706 LICENSE NUMBER
SCOTT PULLEN, PRINCIPAL HMR ARCHITECTS

THESE DRAWINGS LISTED ABOVE AS SHADE STRUCTURES DRAWINGS HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THEY HAVE BEEN EXAMINED BY ME FOR:

1. DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES AND RESPONSIBILITIES UNDER SECTION 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344 OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 (b))

SIGNATURE OF THE ARCHITECT — 03/11/2025 DATE
SCOTT PULLEN, PRINCIPAL, HMR ARCHITECTS

C24706 LICENSE NUMBER — DECEMBER 31, 2025 EXPIRATION DATE

HMR ARCHITECTS
2130 21st Street
Sacramento, CA 95818
T 916 736 2724

BID SET
2025-03-11

DSA #02-123096
FILE #48-C1

SHADE STRUCTURE REPLACEMENT
SOLANO COMMUNITY COLLEGE
4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA BACKCHECK SET

REVISIONS

NO.	DESCRIPTION	DATE

COVER SHEET

MARCH 11, 2025

DRAWN BY:	LR
CHECKED BY:	KD
JOB NO.	24055

A0

3/11/2025 8:53 AM BRYANF
E:\SOLANO CC\24055 ELC SHADE STRUCTURE\01_A0_COVER SHEET.DWG

LEGEND

Symbol	Description
→ → → → —	PATH OF TRAVEL
— - — - —	PROPERTY LINE
—x—x—x—	EXISTING CHAINLINK FENCE
(shaded)	(E) FIRE TRUCK PATHWAY PER DSA APP. #02-122010 & #02-121777
(dash-dot arc)	400' RANGE FROM FIRE HYDRANT TO FIRE TRUCK PER CFC 507.5.1
(dash-dot-dot arc)	150' RANGE OF HOSE RUN FROM TRUCK
TWS	(E) TRAFFIC ENTRY WARNING SIGN COMPLYING WITH 2022 CBC 11B-502 TO REMAIN

1D / AS1 OVERALL SITE PLAN

FILE:

SCALE: 1"=150'

TRUE NORTH REF. NORTH

3/11/2025 9:22 AM BRYANF
E:\SOLANO CC\24055 ELC SHADE STRUCTURE\02_AS1S_SITE PLANS.DWG

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

PROJECT INFORMATION
School District/Owner: Solano Community College District
Project Name/School: Solano Community College - Bldg. #200
Project Address: 4000 Suisun Valley Rd., Fairfield, CA 94534

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: Fire Hazard Severity Zones in State Responsibility Area	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

	CONDITION MEANS AND METHODS RESOLUTION	ALTERNATE ACCEPTED Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.				
4a.	**Acceptable Alternate:** 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 Alternate:** 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 Alternate:** 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 Alternate:** The location of fire department connection 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: ______________________ Title: ______________

Signature: ______________________ Date: ______________

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name: FAIRFIELD FIRE DEPARTMENT	
LFA Review Official: Bryan Just	
Title: Assistant Fire Marshal	Work Phone: 707-428-7377
Work Email: BJust@FAIRFIELD.CA.GOV	

LFA Reviewer's Signature: [signature] Date: 1/29/2025

DGS DSA 810 (revised 12/29/20) DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 2 of 4 STATE OF CALIFORNIA

GENERAL SITE NOTES

ACCESSIBLE PATH OF TRAVEL:

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLANS IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:

THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS, AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT 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 CONSTRUCTIONS DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT 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 POT 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 A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

HMR ARCHITECTS
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BID SET 2025-03-11

DSA #02-123096
FILE #48-C1

SHADE STRUCTURE REPLACEMENT

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA BACKCHECK SET

REVISIONS

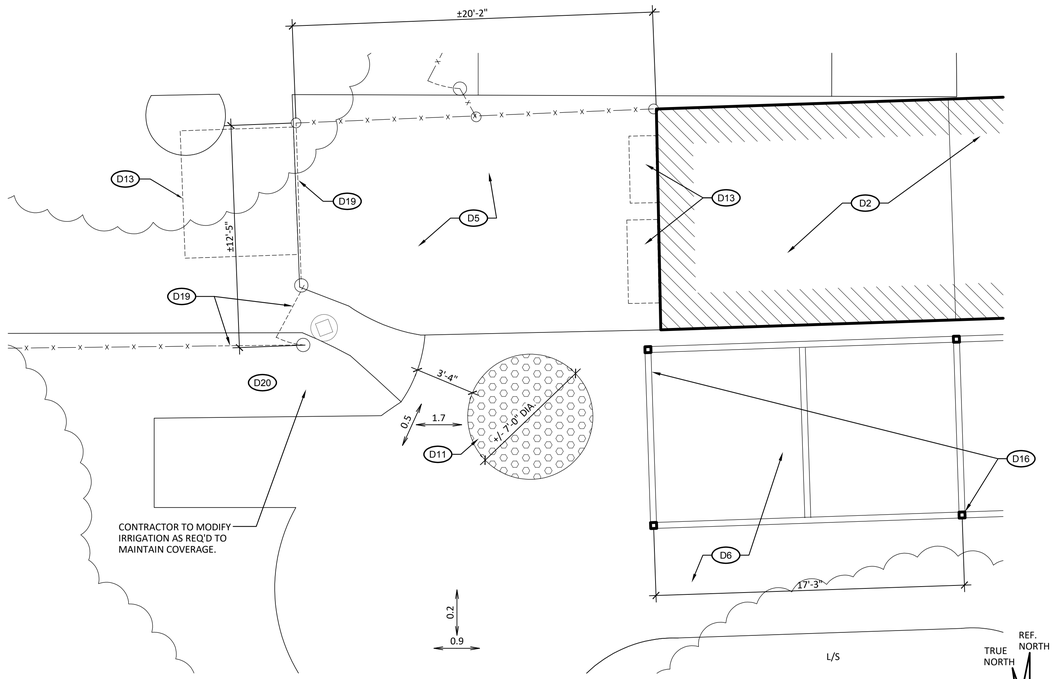
NO.	DESCRIPTION	DATE

OVERALL SITE PLAN

MARCH 11, 2025

DRAWN BY: LR
CHECKED BY: KD
JOB NO. 24055

AS1



1B ASD1 SHADE STRUCTURE - AREA #4

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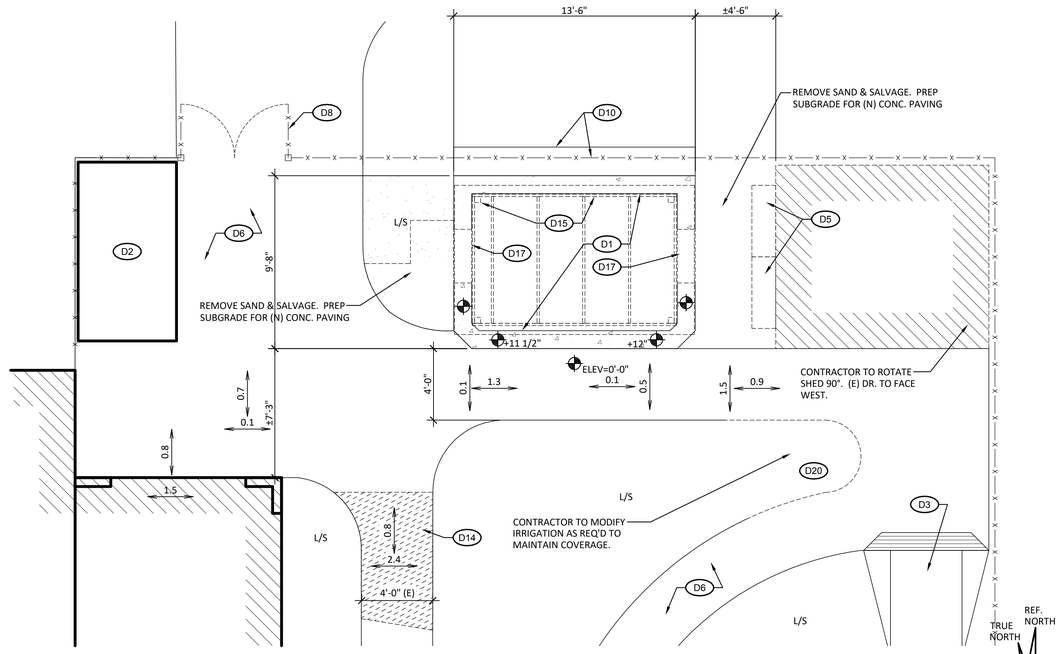

3B ASD1 SITE DEMO AREA #3

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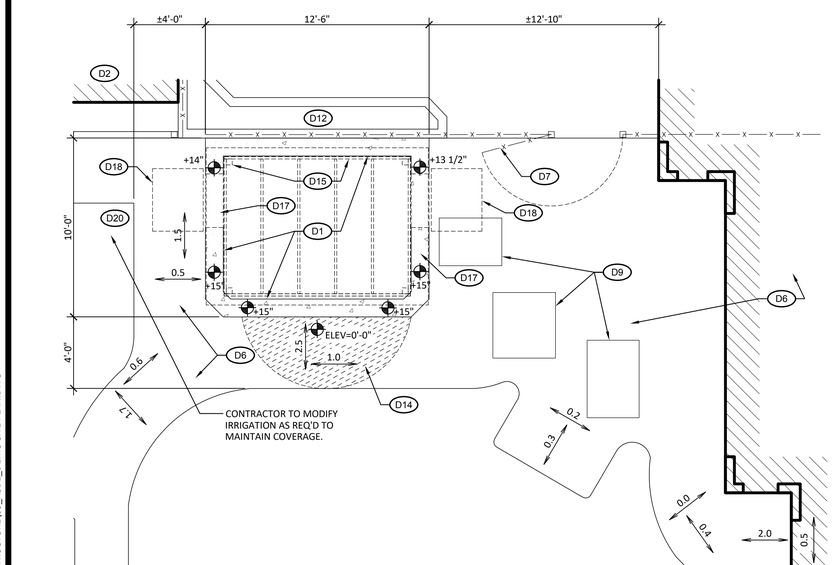
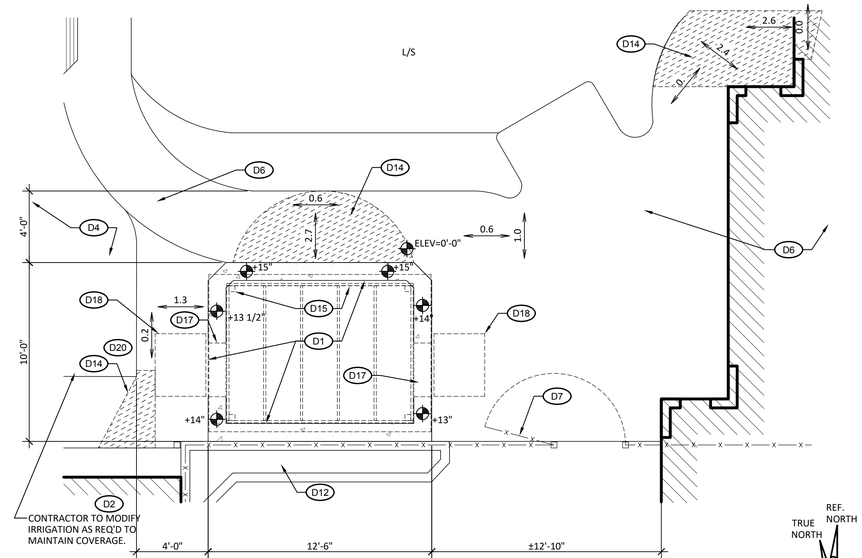


1D ASD1 SITE DEMO AREA #1

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



3D ASD1 SITE DEMO AREA #2

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

KEYNOTES:

- D1 (E) CONCRETE SANDBOX TO REMAIN. SAWCUT & DEMO PORTION OF WALL AS REQ'D. FOR NEW WORK.
- D2 (E) STORAGE SHED TO REMAIN. NO WORK.
- D3 (E) APPARATUS AREA RAMP TO TURF SURFACE @ -2" BELOW CONC. WALK REMAIN. NO WORK.
- D4 (E) POURED RUBBER FALL PROTECTION PAVING FLUSH W/ CONC. WALK TO REMAIN.
- D5 (E) SAND BED +/- FLUSH W/ ADJ. CONC. WALK. REMOVE & SALVAGE SAND FOR CONSTRUCTION.
- D6 (E) ACC. CONCRETE WALK TO REMAIN. SEE NEW PLANS FOR WORK.
- D7 (E) STAFF INTERCONNECT GATE TO REMAIN. NO WORK.
- D8 (E) MAINTENANCE GATE TO REMAIN. NO WORK.
- D9 (E) UTILITY BOX TO REMAIN. PROTECT IN PLACE.
- D10 (E) FENCE W/ MOWSTRIP TO REMAIN.
- D11 (E) ROCK DECORATIVE PAVING TO REMAIN. PROTECT IN PLACE.
- D12 (E) PLANTER TO REMAIN. NO WORK.
- D13 MOVE SITE FURNITURE AS DIRECTED BY SITE STAFF.
- D14 DEMO OR GRIND CONC. PAVING AS REQ'D. TO REMOVE TRIP HAZARD & COMPLY W/ SLOPE/CROSS-SLOPE REQ'MTS..
- D15 DEMO 4x4 & 2x SHADE STRUCTURE INCLUDING CONC. FTNG COMPLETELY.
- D16 COLUMNS OF (E) SHADE STRUCT. TO REMAIN. PROTECT IN PLACE. TYP. OF 6
- D17 SAWCUT (E) SANDBOX CONC. WALL FULL DEPTH AS REQ'D. TO INSTALL NEW WORK.
- D18 SAWCUT @ (E) JOINT LINE CONC. PAVING AS REQ'D. TO INSTALL NEW WORK.
- D19 REMOVE FENCING & GATE AS REQ'D. FOR ACCESS TO WORK.
- D20 DEMO LANDSCAPING AREA AS REQ'D FOR NEW PAVING WORK.

GENERAL NOTES:

1. NO DEMOLITION SHALL COMMENCE UNTIL DRAWINGS HAVE BEEN APPROVED BY DSA.
2. S.C.C. HAS HAD C BELOW CONDUCT AN UNDERGROUND UTILITY SURVEY IN THE AREAS OF THE 4 SAND BOXES. CONTRACTOR SHALL OBTAIN A COPY OF THIS REPORT DATED 01-17-2025 FROM S.C.C. AND ANY GROUND MARKING INFORMATION INTO THEIR BID.

LEGEND:

- CHAIN LINK FENCE TO REMAIN. NO WORK.
- 6' HI DECORATIVE FENCING TO REMAIN. NO WORK.
- L/S LANDSCAPING AREA TO REMAIN. PROTECT IN PLACE.
- ITEMS TO BE DEMOLISHED OR RELOCATED.
- (E) BUILDING
- 2.0 SURVEYED SLOPE OF GRADE IN PERCENT
- APPROXIMATE AREA OF CONC. DEMO.

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BID SET
2025-03-11

DSA #02-123096
FILE #48-C1

SHADE STRUCTURE REPLACEMENT

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA BACKCHECK SET

REVISIONS

NO.	DESCRIPTION	DATE

SHADE STRUCTURE SITE DEMO

MARCH 11, 2025

DRAWN BY:	LR
CHECKED BY:	KD
JOB NO.	24055

ASD1

3/11/2025 11:06 AM BRYANF
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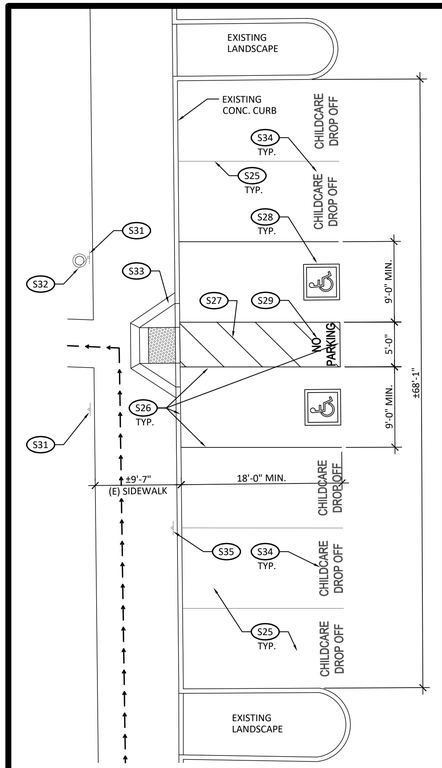
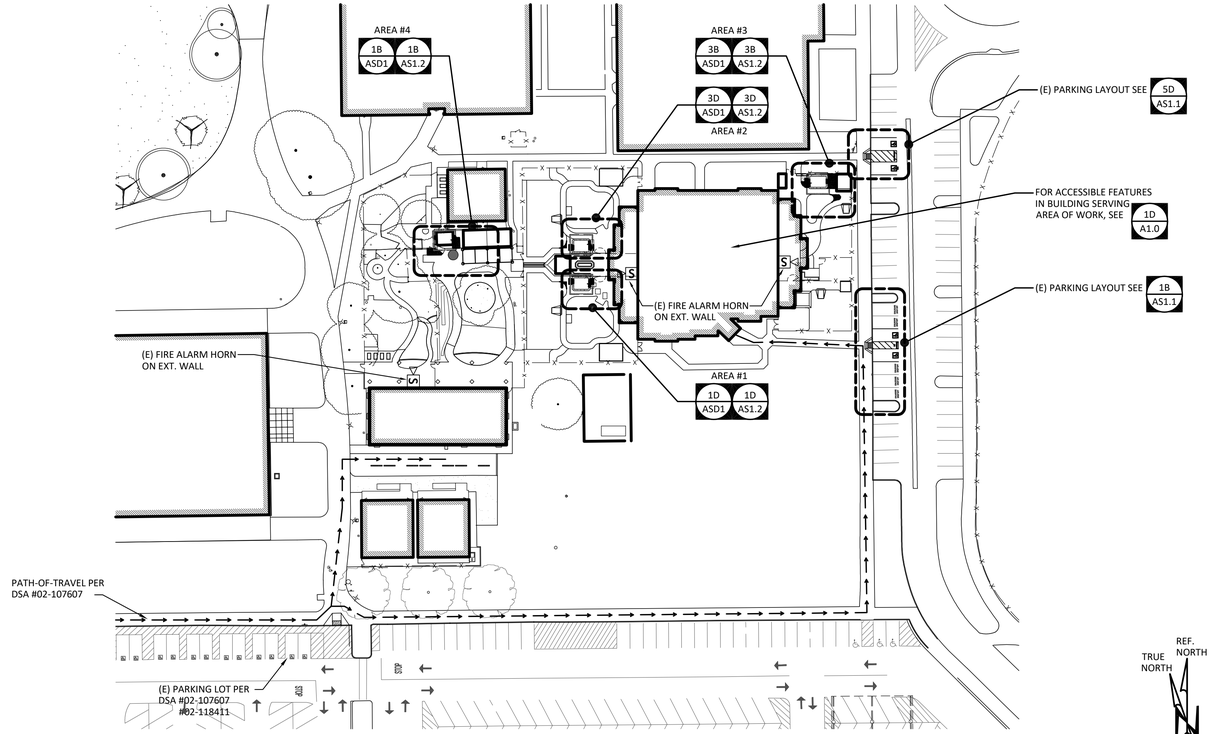


1B AS1.1 PARKING STALL ENLARGED PLAN

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



2B AS1.1 ENLARGED SITE PLAN - ACCESS FOR AREA OF WORK

FILE: SCALE: 1"=50'

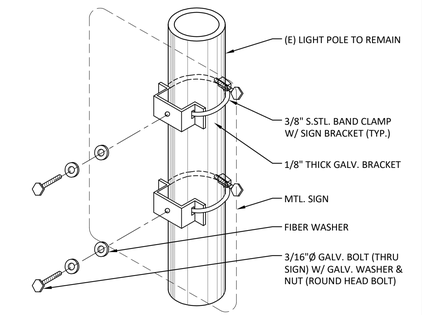
KEYNOTES

SEE ENLARGED PLAN PARKING STALL:

- S25 (E) YELLOW STRIPPING @ CHILDCARE DROP OFF TO REMAIN.
- S26 PAINT ACCESSIBLE PARKING STALL & PERIMETER OF OFF-LOAD ZONE W/ 4" BLUE STRIPING. PAINT CURB FACE BLUE.
- S27 PAINT CROSSHATCHING W/ 4" WHITE STRIPING @ 3' O.C. 45 DEGREE TO BLUE STRIPING.
- S28 PAINT ISA PER DTL. 1D AS1.1
- S29 PAINT 12" HI "NO PARKING" LETTERING IN WHITE CENTERED AT END OF OFFLOAD BLUE STRIPE.
- S30 PAINT 12" HI "VAN" LETTERING IN WHITE CENTERED BELOW ISA.
- S31 (E) ACCESSIBLE PARKING STALL SIGNS COMPLYING W/ DTL. 2C AS1.1 (E) SIGN "VAN" AT LOCATION INDICATED ONTO (E) POLE.
- S32 (E) "TOW AWAY" SIGN MOUNTED TO LIGHT POLE COMPLYING W/ DTL. 3C AS1.1 TO REMAIN. (E) CONTAINS "SOLANO COMMUNITY COLLEGE PD" AND "707-864-71-31" ALREADY FILLED IN.
- S33 (E) CONCRETE CURB CUT RAMP COMPLYING W/ 11B-406.2 & 406.5 W/ TRUNCATED DOMES COMPLYING W/ DTL. 4C AS1.1 TO REMAIN.
- S34 (E) PARKING STALLS DESIGNATED FOR "CHILDCARE DROP OFF" TO REMAIN.
- S35 (E) "15 MINUTES PARKING" SIGN TO REMAIN.

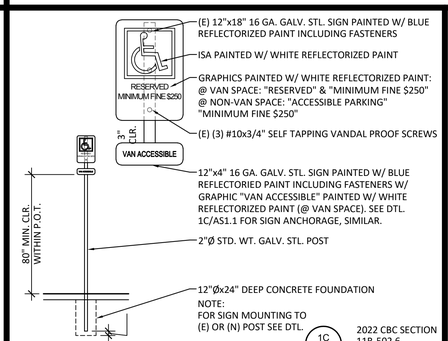
LEGEND:

- INDICATED PATH OF ACCESS TRAVEL TO AREA OR WORK.
- CHAIN LINK FENCE TO REMAIN. NO WORK.
- 6' HI DECORATIVE FENCING TO REMAIN. NO WORK.
- L/S LANDSCAPING AREA TO REMAIN. PROTECT IN PLACE.
- ITEMS TO BE DEMOLISHED OR RELOCATED.
- (E) BUILDING



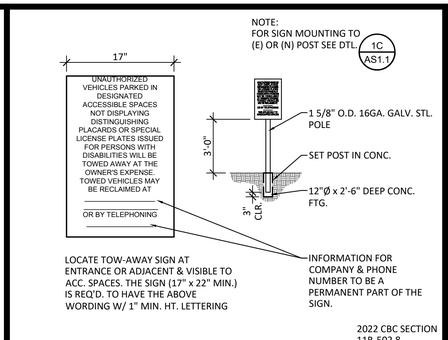
1C AS1.1 POLE MOUNTED SIGN ANCHORAGE

FILE: SCALE: 6"=1'-0"



2C AS1.1 ACCESSIBLE PARKING STALL SIGN

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



3C AS1.1 TRAFFIC ENTRY WARNING SIGN

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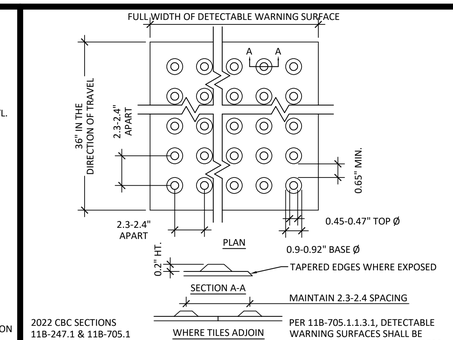
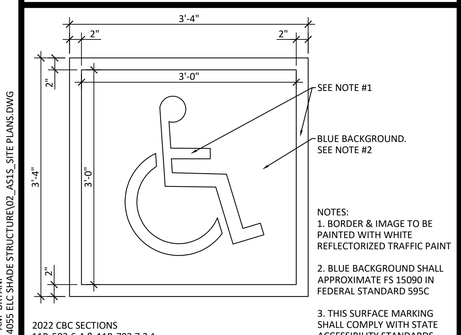


4C AS1.1 TRUNCATED DOMES

FILE: SCALE: FULL



1D AS1.1 ACCESSIBLE PARKING STALL SYMBOL

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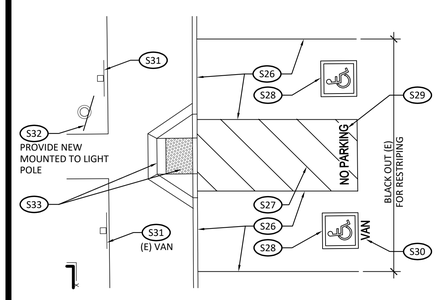

5D AS1.1 PARKING STALL ENLARGED PLAN

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

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SHADE STRUCTURE REPLACEMENT

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA BACKCHECK SET

REVISIONS

NO.	DESCRIPTION	DATE

ENLARGED SITE PLAN & DETAILS

MARCH 11, 2025

DRAWN BY: LR
CHECKED BY: KD
JOB NO. 24055

AS1.1

3/11/2025 10:17 AM BRYANF
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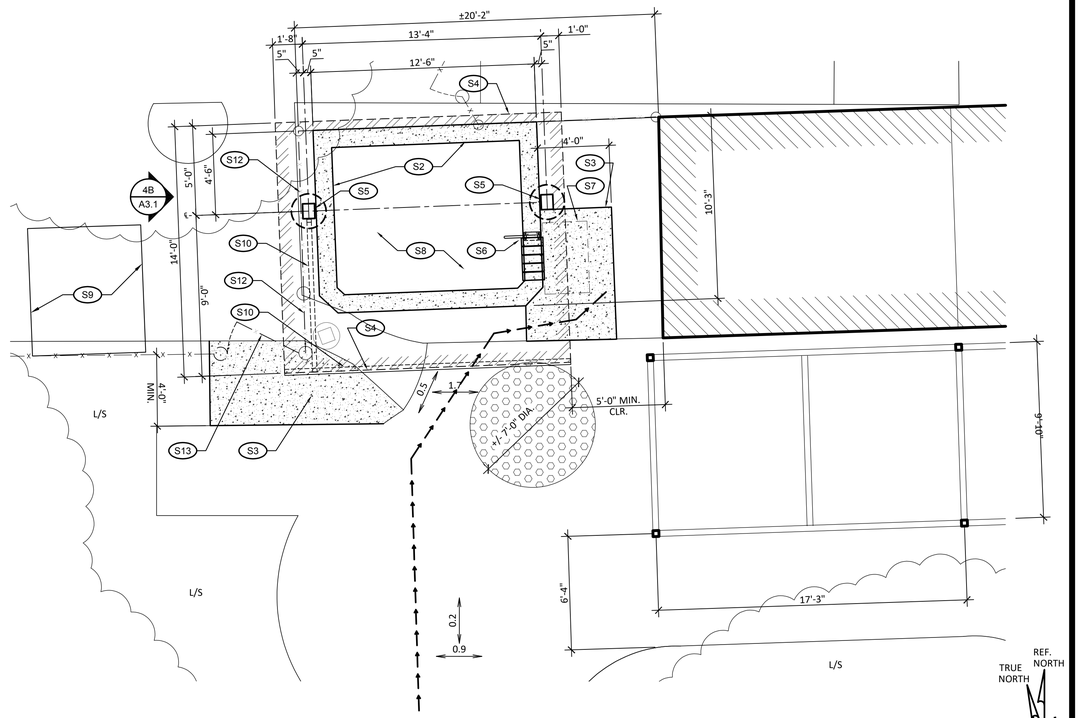

1B AS1.2 SHADE STRUCTURE - AREA #4

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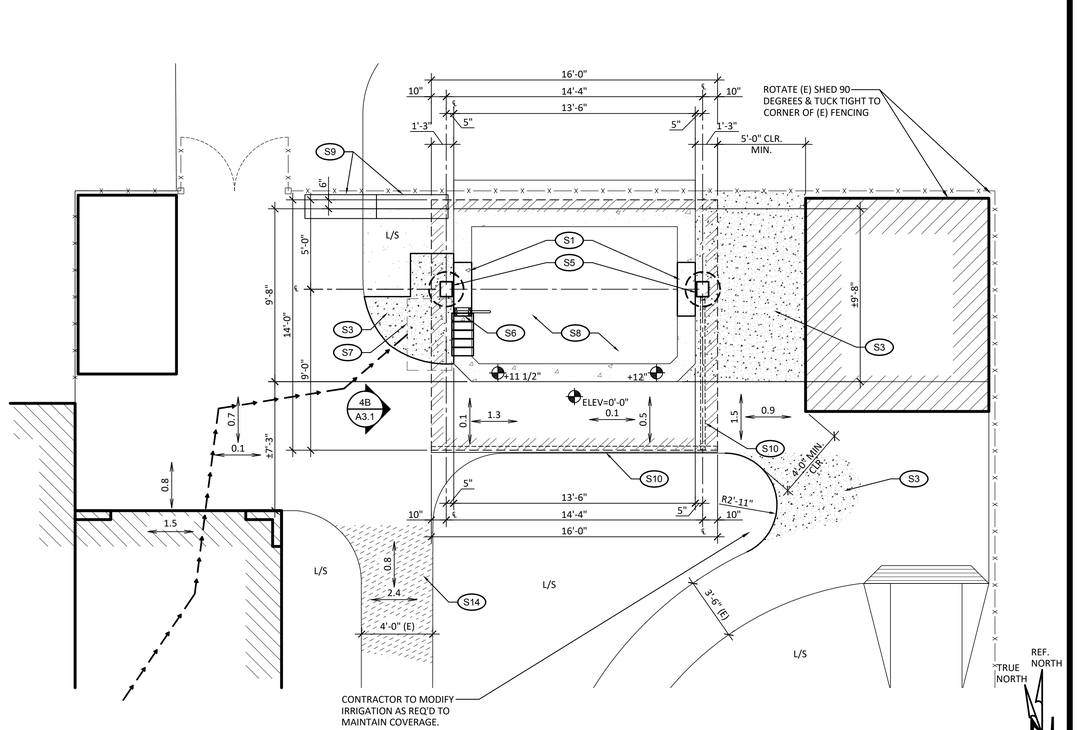

3B AS1.2 SHADE STRUCTURE - AREA #3

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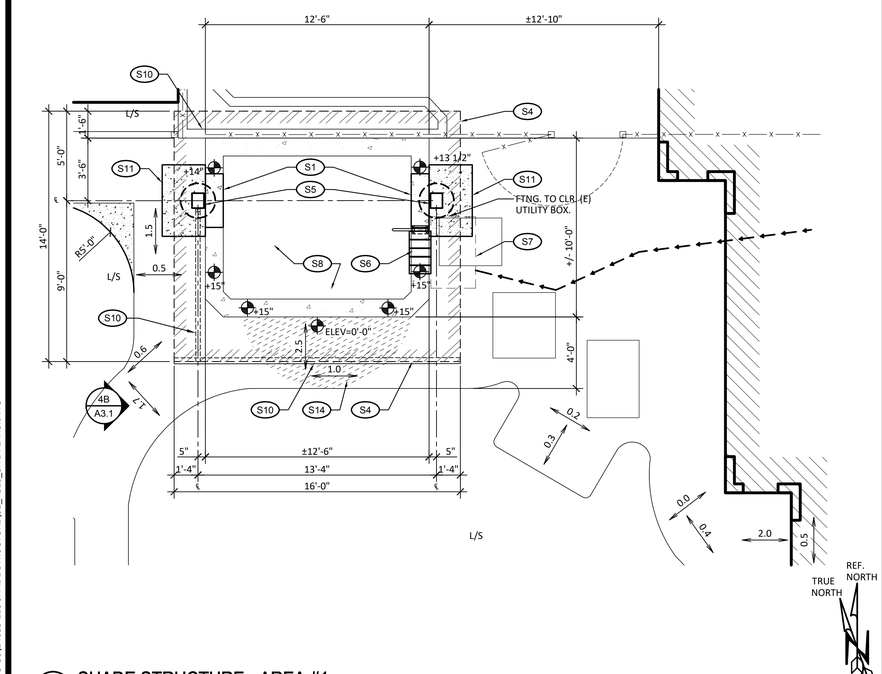

1D AS1.2 SHADE STRUCTURE - AREA #1

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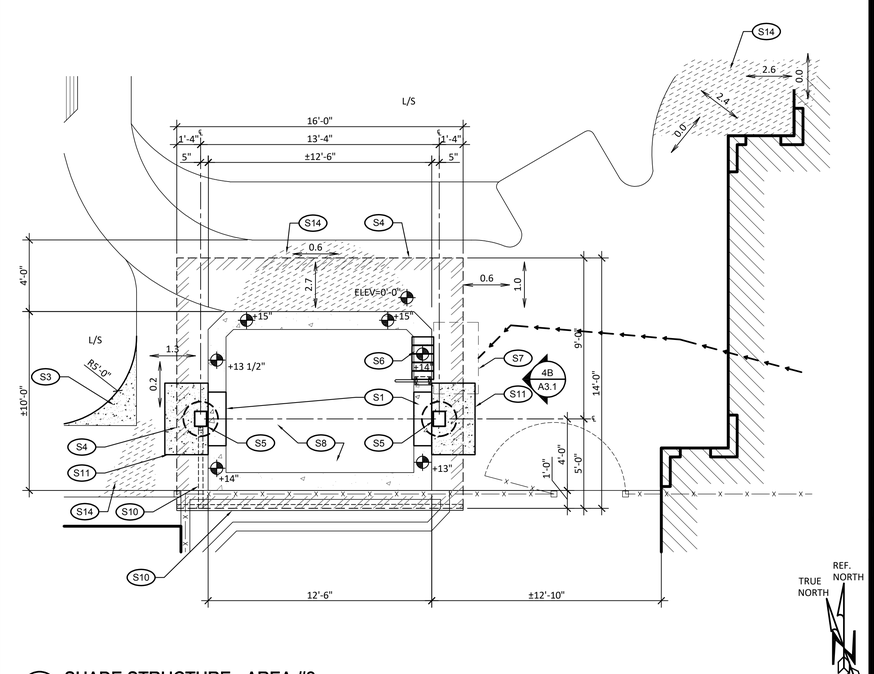

3D AS1.2 SHADE STRUCTURE - AREA #2

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

KEYNOTES

- S1 INFILL CONC. CURB @ SANDBOX PER DTL. 4D A3.0
- S2 CONC. CURB FOR SANDBOX PER DTL. 5D A3.0
- S3 MIN. 4" THICK CONC. SIDEWALK PAVING PER DTL. 1D A3.0
- S4 OUTLINE OF SHADE STRUCTURE COVERAGE. SEE MANUF. DRWGS.
- S5 SHADE STRUCT. COL. TO BE INSTALLED 1" CLR. OF CONC. CURB.
- S6 ACC. TRANSFER SEAT LOCATION. SEE DTL. 2D A3.0 & 3D A3.0
- S7 30" x 48" CLEAR FLOOR SPACE FOR SIDE APPROACH PER 2022 CBC 11B-305.
- S8 CLEAN & REINSTALL SAND TO A MIN. DEPTH OF 6". PROVIDE ADD'L. AS REQ'D. TO RAISE FIN. ELEV. TO CONC. -1".
- S9 MOVE SITE FURNITURE AS DIRECTED BY SITE STAFF.
- S10 GUTTER & DOWNSPOUT BY SHADE STRUCTURE MANUF. PER ELEV. 4B A3.1
- S11 PATCH BACK CONCRETE WALK, TYP.
- S12 INSTALL 4' HI C.L.F. TO MATCH (E) ON (E) POSTS.
- S13 INSTALL 4' WD. x 4' HI C.L.F. GATE FOR MAINTENANCE PERSONNEL ONLY. SEE DTL. 5D A3.1
- S14 PATCH BACK CONCRETE OR GRIND AS REQ'D. FOR SLOPE TO COMPLY @ 2% MAX IN ANY DIRECTION. EDGES SHALL FLUSH W/ ADJ.

LEGEND:

- INDICATED PATH OF ACCESS TRAVEL TO AREA OR WORK.
- CHAIN LINK FENCE TO REMAIN. NO WORK.
- 6' HI DECORATIVE FENCING TO REMAIN. NO WORK.
- L/S LANDSCAPING AREA TO REMAIN. PROTECT IN PLACE.
- ITEMS TO BE DEMOLISHED OR RELOCATED.
- (E) BUILDING

HMR ARCHITECTS
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2025-03-11

DSA #02-123096
FILE #48-C1

SHADE STRUCTURE REPLACEMENT

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA BACKCHECK SET

REVISIONS

NO.	DESCRIPTION	DATE

ENLARGED SITE PLANS

MARCH 11, 2025

DRAWN BY:	LR
CHECKED BY:	KD
JOB NO.	24055

AS1.2

3/11/2025 10:57 AM BRYANF
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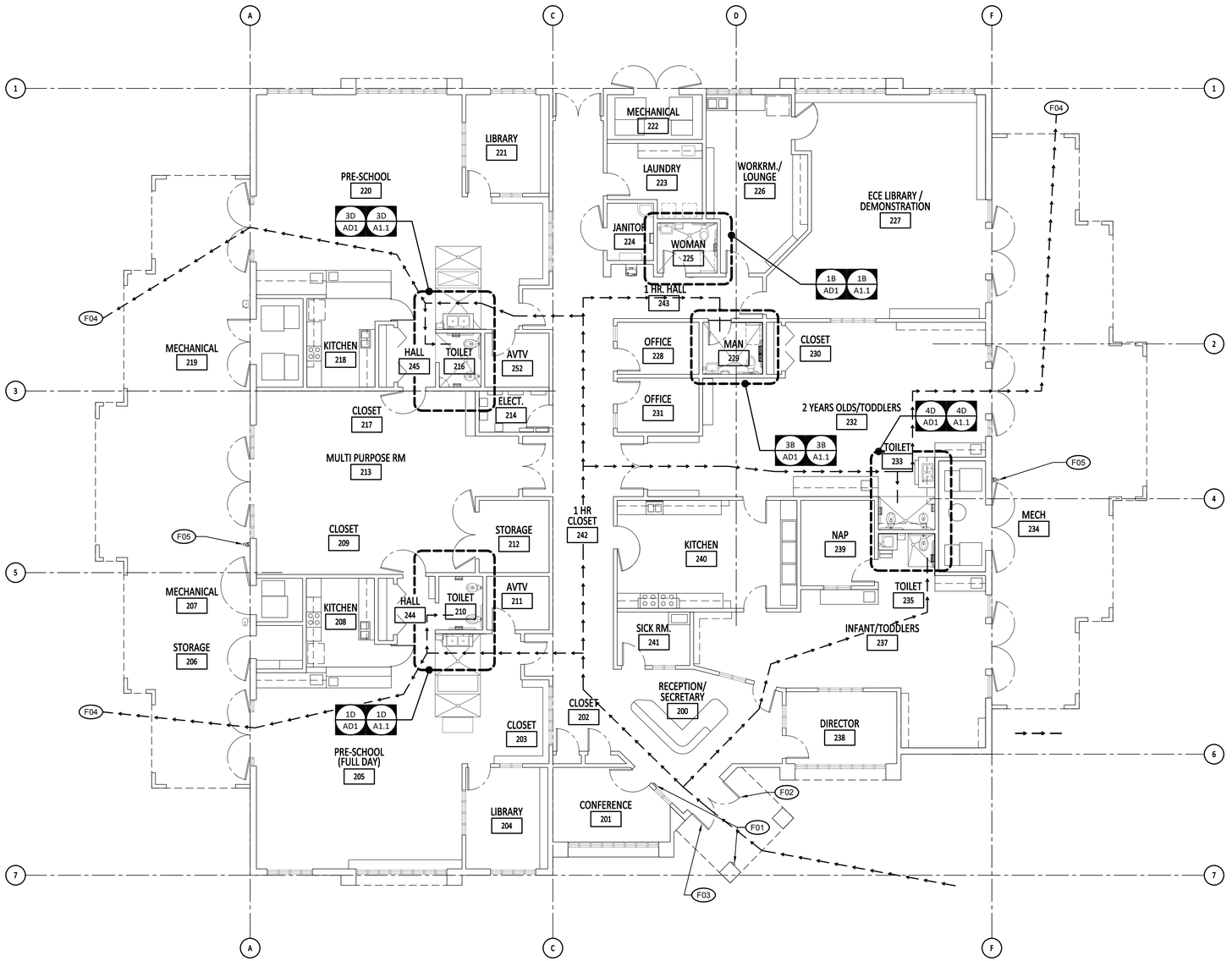

KEYNOTES:

- F01 REMOVE (E) DR. OPERATOR BUTTON & REPLACE W/ OPERATOR BAR. SEE SPECS. & DTL. 5A / A3.0
- F02 (E) DR. W/ ACC. HARDWARE COMPLYING W/ 11B-404.2 TO REMAIN.
- F03 AUTOMATIC OPERATOR LEAF OF DR. TO REMAIN.
- F04 PATH OF TRAVEL TO AREA OF WORK.
- F05 (E) FIRE ALARM HORN DEVICE

GENERAL NOTES:

1. PATH-OF-TRAVEL INTO AND WITHIN THE BUILDING HAS BEEN SURVEYED FOR COMPLIANCE WITH 2022 CBC 11B-202.4. ITEMS FOUND TO NOT BE IN COMPLIANCE ALONG THIS PATH ARE BEING MODIFIED WITHIN THESE DOCUMENTS TO BE BROUGHT INTO COMPLIANCE AND SERVE THE SPECIFIC AREA OF WORK.

TRUE NORTH / REF. NORTH

1D / A1.0 REFERENCE (E) FLOOR PLAN - BUILDING 200

FILE:

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

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2025-03-11

DSA #02-123096
FILE #48-C1

SHADE STRUCTURE REPLACEMENT

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA BACKCHECK SET

REVISIONS

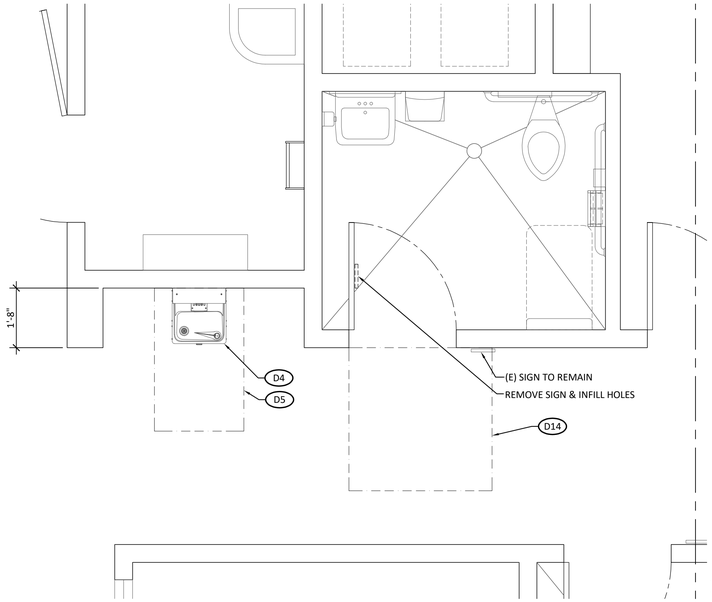
NO.	DESCRIPTION	DATE

REFERENCE FLOOR PLAN BUILDING 200

MARCH 11, 2025

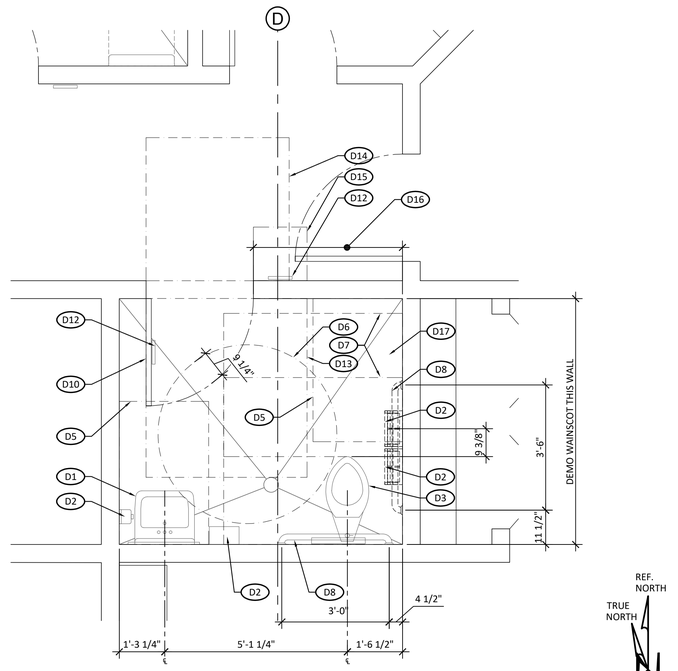
DRAWN BY:	LR
CHECKED BY:	KD
JOB NO.	24055

A1.0



1B AD1 ENLARGED DEMO RESTROOM - 225 (NON-ACCESSIBLE ALL GENDER)

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



3B AD1 ENLARGED DEMO RESTROOM - 229 (ALL GENDER) ACCESSIBLE

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

DEMO KEYNOTES:

ADULT RESTROOM DEMO KEYNOTES:

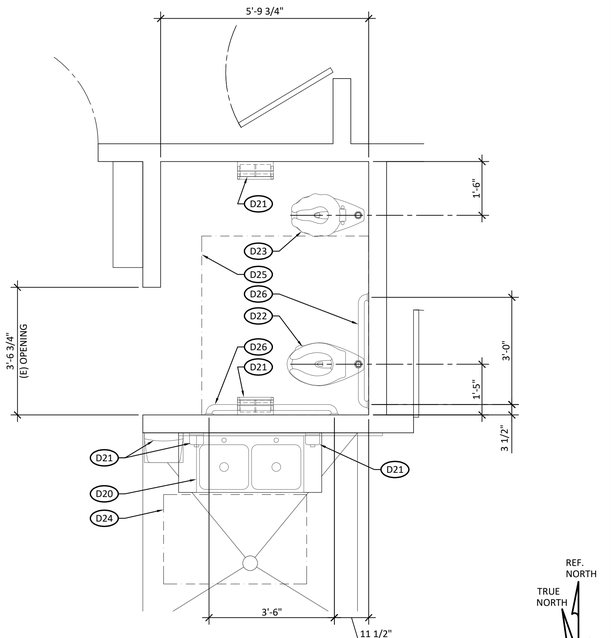
- D1 (E) WALL HUNG LAV COMPLYING W/ 11B-606, 11B-306, & 11B-305 TO REMAIN.
- D2 (E) WALL HUNG ACCESSORY (SOAP, PAPER TOWEL DISP., ETC) COMPLYING W/ 11B-308 & 11B-309 TO REMAIN.
- D3 (E) TOILET TO REMAIN. SEE FLOOR PLAN FOR WORK.
- D4 (E) DRINKING FOUNTAIN W/ BOTTLE FILLER IN ALCOVE TO REMAIN. D.F COMPLYING W/ 11B-602.2 THRU 11B-602.6. & B.F. COMPLYING W/ 11B-602.10.
- D5 PROVIDED 30"x48" CLR. FLR. SPACE PER 11B-305
- D6 PROVIDED 60" CIRCLE OF CLR. FLR. SPACE PER 11B-304.3.1
- D7 PROVIDED 60"x56" CLEARANCE AND 60"x48" MANEUVERING SPACE @ TOILET PER 11B-604.3.1
- D8 (E) GRAB BAR COMPLYING WITH EITHER 11B-604.5.1 OR 11B-604.5.2 TO REMAIN
- D9 (E) GRAB BAR TO BE RELOCATED PER 11B-604.5.2
- D10 (E) 3'-0" DR. W/ LEVER HARDWARE & CLOSER COMPLYING W/ 11B-404.2.4, 11B-404.2.7, & 11B-404.2.10 TO REMAIN.
- D11 (E) BABY CHANGING TABLE.
- D12 (E) RESTROOM SIGNAGE TO BE REMOVED & REPLACED W/ NEW.
- D13 PULL SIDE AND /OR PUSH SIDE DOOR ACCESS SPACE PER 2022 CBC 11B-404.2.4.1.
- D14 4'-0" x 4'-0" DOOR APPROACH SPACE.
- D15 18" x18" CLEAR FLOOR SPACE @ ROOM SIGN. SIGN CENTERED IN 18" WIDTH.
- D16 DEMO WAINSCOT FULL WIDTH OF WALL SEGMENT. DEMO GYP. BD. TO CENTERLINE OF (E) STUDS AS REQ'D FOR (N) WORK.
- D17 BABY CHANGING TABLE PER 2022 11B-226.4.

CHILD (AGE 2-4) RESTROOM DEMO KEYNOTES:

- D20 (E) SINK IN CASEWORK W/ AUTO-SENSING FAUCET TO REMAIN. COUNTERTOP HEIGHT AS NOTED
- D21 (E) WALL HUNG ACCESSORY (SOAP, PAPER TOWEL DISP., ETC) COMPLYING W/ 11B-308 & 11B-309 TO REMAIN.
- D22 (E) CHILD'S ACC. TOILET TO REMAIN.
- D23 (E) CHILD'S STANDARD TOILET TO REMAIN.
- D24 PROVIDED 30"x48" CLR. FLR. SPACE PER 11B-305
- D25 PROVIDED 60"x56" CLEARANCE SPACE @ TOILET PER 11B-604.3.1
- D26 (E) GRAB BAR COMPLYING WITH EITHER 11B-604.5.1 OR 11B-604.5.2 TO REMAIN

GENERAL NOTES:

1. NO DEMOLITION SHALL COMMENCE UNTIL DRAWINGS HAVE BEEN APPROVED BY DSA.



1D AD1 ENLARGED DEMO RESTROOM - 210

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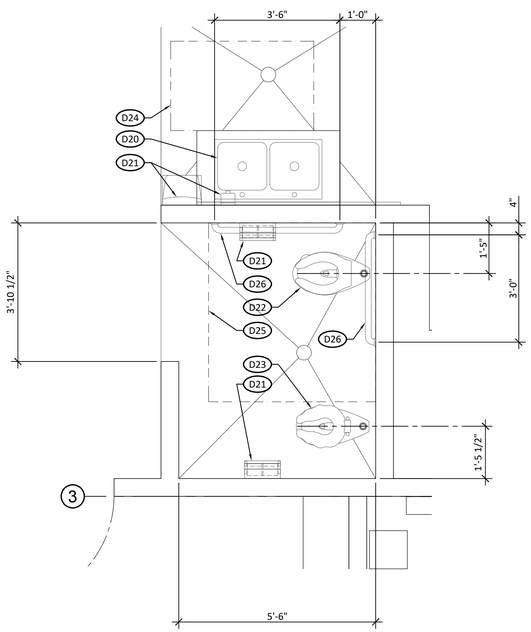
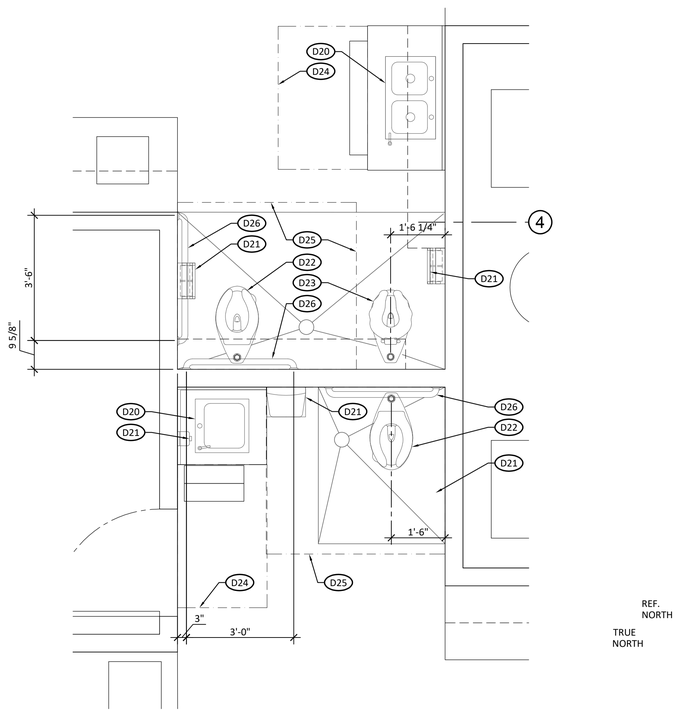


3D AD1 ENLARGED DEMO RESTROOM - 216

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



4D AD1 ENLARGED DEMO RESTROOM - 233

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

HMR ARCHITECTS
2130 21st Street
Sacramento, CA 95818
T 916 736 2724

BID SET
2025-03-11

DSA #02-123096
FILE #48-C1

SHADE STRUCTURE REPLACEMENT

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA BACKCHECK SET

REVISIONS

NO.	DESCRIPTION	DATE

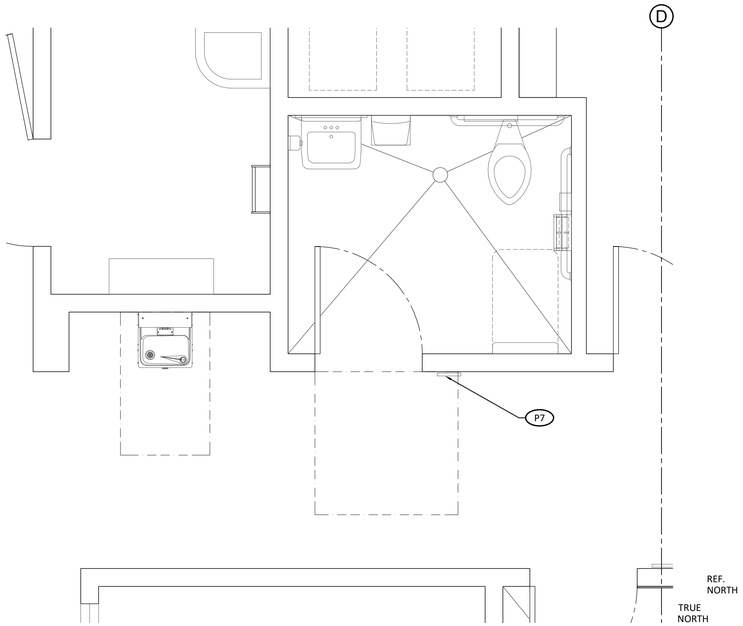
ENLARGED DEMO RESTROOM PLANS

MARCH 11, 2025

DRAWN BY:	LR
CHECKED BY:	KD
JOB NO.	24055

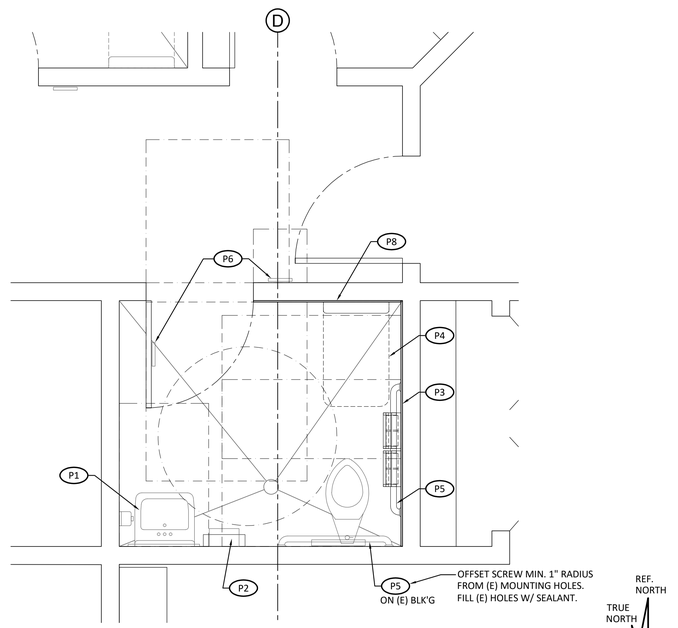
AD1

3/11/2025 11:18 AM BRYANF
E:\SOLANO CC\24055 ELC SHADE STRUCTURE\04_AD1_DEMO FLOOR PLAN.DWG



1B A1.1 ENLARGED RESTROOM - 225 (ALL GENDER)

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



3B A1.1 ENLARGED RESTROOM - 229 (ALL GENDER) ACCESSIBLE

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

KEYNOTES:

ADULT RESTROOM KEYNOTES:

P1 PROVIDE INSUL. WRAP OF DRAIN LINE & SUPPLY LINES PER 11B-606.5.

P2 INSTALL WALL HUNG WASTE RECEPTACLE BELOW PAPER TOWEL DISPENSER. SEE DTL. 2C/A3.0 FOR MOUNTING HT.

P3 INSTALL WAINSCOT OF 5/8" W.R. TYPE-X GYP. BD. & F.R.P. ON WALL & REINSTALL ALL (E) ACCESSORIES. SEE DTL. 1C/A3.0

P4 INSTALL BABY CHANGING TABLE PER DTL. 5C/A3.0

P5 RELOCATE (E) GRAB BAR TO COMPLY 11B-604.5.2

P6 INSTALL RESTROOM SIGNAGE PER DTL. 3B/A3.0

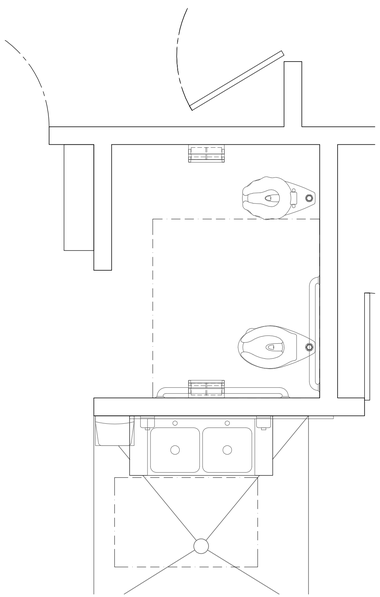
P7 INSTALL ROOM IDENTIFICATION SIGNAGE PER DTL. 4A/A3.0

P8 INSTALL F.R.P. WAINSCOT O/ PATCHED BACK 5/8" GYP. BD. AFTER BACKING IS INSTALLED. SIM TO DTL. 1C/A3.0

CHILD (AGE 2-4) RESTROOM KEYNOTES:

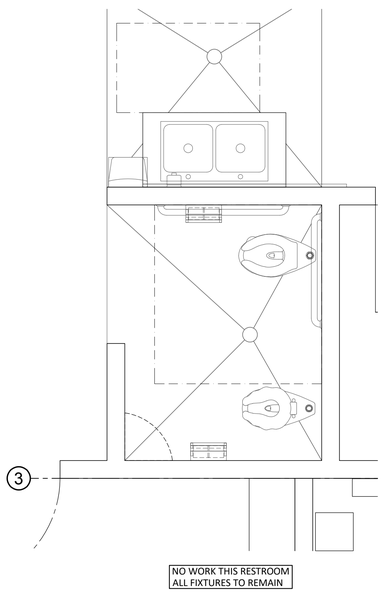
P20 INSTALL GRAB BAR ON SIDE WALL ONTO BLK'G PER DTL. 2A/A3.0
INSTALL 36" GRAB BAR @ 18" TO 20" A.F.F. 24" FROM NOSE OF BOWL.

P21 PATCH GYP. BD. AS REQ'D TO INSTALL BLK'G & INSTALL F.R.P. WAINSCOT TO +4'-6" A.F.F. SIM TO DTL. 1C/A3.0



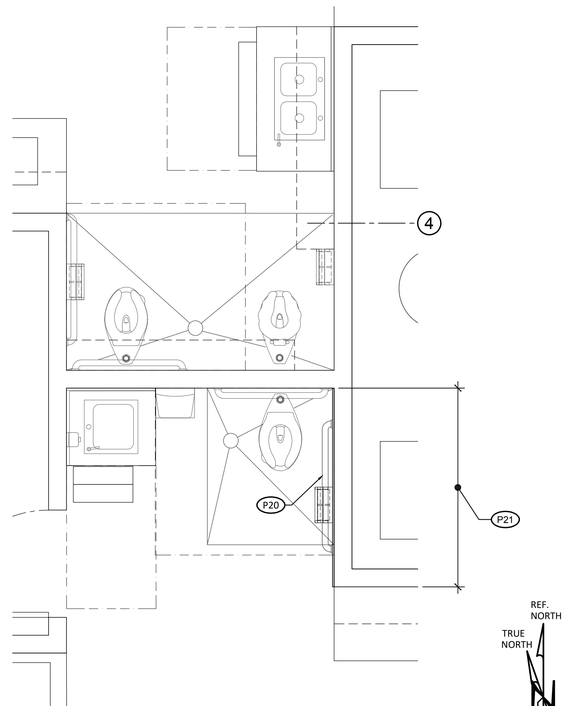
1D A1.1 ENLARGED RESTROOM - 210

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



3D A1.1 ENLARGED RESTROOM - 216

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



4D A1.1 ENLARGED RESTROOM - 233 & 235

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

HMR ARCHITECTS
2130 21st Street
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T 916 736 2724

BID SET
2025-03-11

DSA #02-123096
FILE #48-C1

SHADE STRUCTURE REPLACEMENT

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DSA BACKCHECK SET

REVISIONS

NO.	DESCRIPTION	DATE

ENLARGED RESTROOM PLANS

MARCH 11, 2025

DRAWN BY:	LR
CHECKED BY:	KD
JOB NO.	24055

A1.1

3/11/2025 11:12 AM BRYANF
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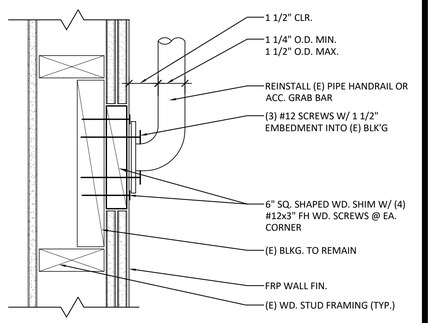
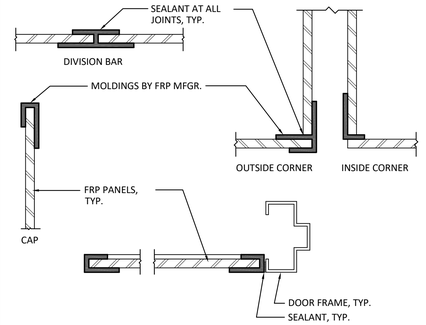


2A A3.0 **HANDRAIL-GRAB BAR AT WOOD STUDS**

FILE: ADA_DTL SCALE: 3"=1'-0"



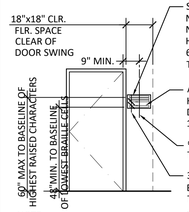
3A A3.0 **TYPICAL FRP JOINTS**

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

LOCATE (1) VERBAL & BRAILLE SIGN @ EA. ROOM ENTRY (INT. & EXT.) DOOR AS SHOWN ON PLANS OR ELEVS.

ALL SIGNAGE TO BE COORDINATED WITH UNIVERSITY INTERIOR STANDARDS. CONFIRM WORDING OF EACH SIGN WITH THE UNIVERSITY

ALL WORD CHARACTERS AND BRAILLE SHALL BE IN HORIZONTAL FORMAT



SIGN WORDING TO IDENTIFY ROOM NAME (& ROOM NUMBER WHEN APPLICABLE) - REFER TO PLANS FOR NAME & NUMBER. ALL CHARACTERS TO BE 1" MIN. HIGH & HAVE WIDTH TO HEIGHT RATIO BETWEEN 60% & 110% & A STROKE RATIO OF 15% MAX. ALL TEXT CHARACTERS SHALL BE RAISED 1/32" MIN.

ALL ROOM IDENTIFICATION SIGNAGE SHALL HAVE CONTRACTED (GRADE 2) BRAILLE WITH DIMENSIONS & MEASUREMENT PER 2022 CBC 11B-703.3 AND TABLE 11B-703.3.1

℄ OF TACTILE CHARACTERS SHALL BE CENTERED IN THE CLR. FLR. SPACE

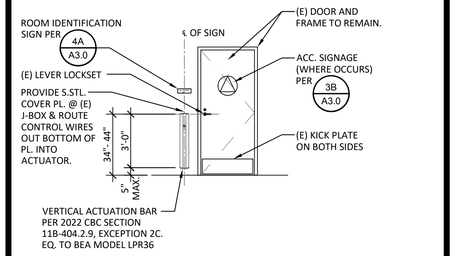
3/8" TO 1/2" FROM BOTTOM OF LETTERS TO TOP OF BRAILLE W/ CELLS FLUSH LEFT OR CENTERED TO TACTILE CHARACTERS.

NOTE:
ALL SIGNAGE TO COMPLY W/ 2022 CBC SECTION 11B-703

NOTE:
BRAILLE SHALL BE LOCATED @ BTTM. OF SIGN, TYP. 3/8" MIN. SPACE BETWEEN RAISED CHARACTORS/BRAILLE & ANY RAISED FRAME.

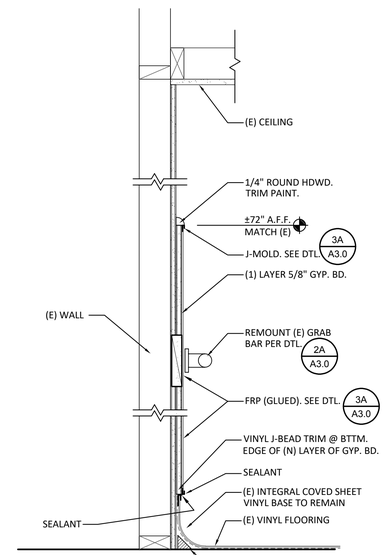
4A A3.0 **ROOM IDENTIFICATION SIGN**

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



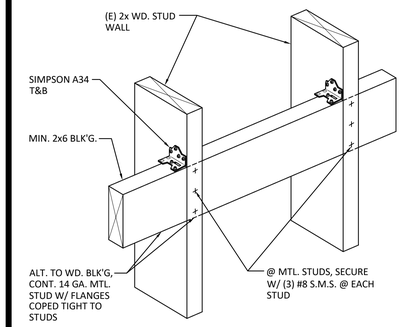
5A A3.0 **TYP. (E) DOOR DETAIL**

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



1C A3.0 **WALL SECTION W/ OVERLAY FOR TOILET CLEARANCE**

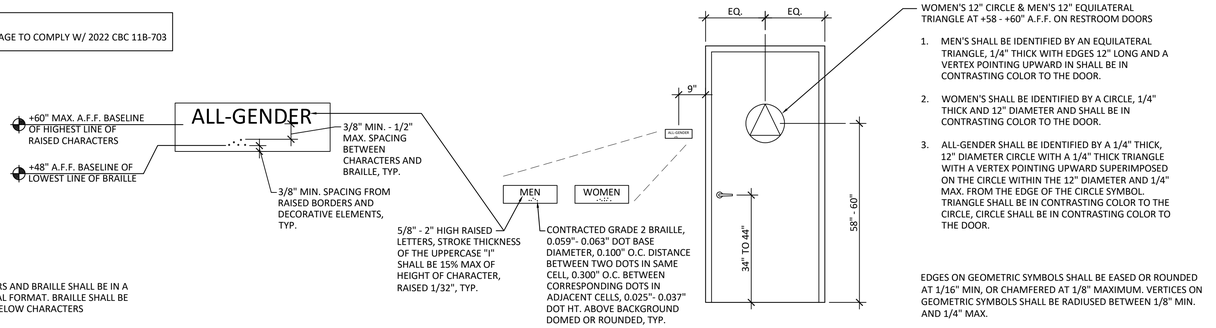
FILE: SCALE: 1 1/2"=1'-0"



2B A3.0 **BLOCKING DETAIL**

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

NOTE:
ALL SIGNAGE TO COMPLY W/ 2022 CBC 11B-703



NOTE:
CHARACTERS AND BRAILLE SHALL BE IN A HORIZONTAL FORMAT. BRAILLE SHALL BE LOCATED BELOW CHARACTERS

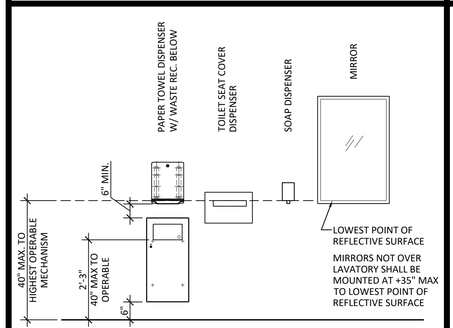
WOMEN'S 12" CIRCLE & MEN'S 12" EQUILATERAL TRIANGLE AT +58 - +60" A.F.F. ON RESTROOM DOORS

1. MEN'S SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE, 1/4" THICK WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD IN SHALL BE IN CONTRASTING COLOR TO THE DOOR.
2. WOMEN'S SHALL BE IDENTIFIED BY A CIRCLE, 1/4" THICK AND 12" DIAMETER AND SHALL BE IN CONTRASTING COLOR TO THE DOOR.
3. ALL-GENDER SHALL BE IDENTIFIED BY A 1/4" THICK, 12" DIAMETER CIRCLE WITH A 1/4" THICK TRIANGLE WITH A VERTEX POINTING UPWARD SUPERIMPOSED ON THE CIRCLE WITHIN THE 12" DIAMETER AND 1/4" MAX. FROM THE EDGE OF THE CIRCLE SYMBOL. TRIANGLE SHALL BE IN CONTRASTING COLOR TO THE CIRCLE, CIRCLE SHALL BE IN CONTRASTING COLOR TO THE DOOR.

EDGES ON GEOMETRIC SYMBOLS SHALL BE EASED OR ROUNDED AT 1/16" MIN, OR CHAMFERED AT 1/8" MAXIMUM. VERTICES ON GEOMETRIC SYMBOLS SHALL BE RADIUSED BETWEEN 1/8" MIN. AND 1/4" MAX.

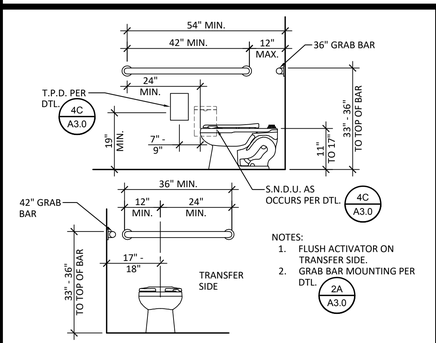
3B A3.0 **ACCESSIBLE RESTROOM SIGNAGE**

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



2C A3.0 **RESTROOM ACCESSORIES**

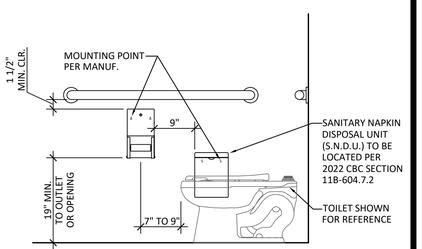
SCALE: 1/2"=1'-0"



3C A3.0 **ACCESSIBLE TOILET REQUIREMENTS**

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

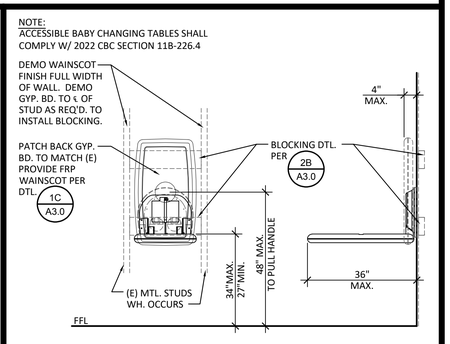
INSTALLATION NOTES:
1. PROVIDE BLOCKING IN WALL FRAMING TO ANCHOR ACCESSORIES TO. SEE DTL. 2B/A3.0 FOR ADD'L. BLK'G. INFO.
2. ACCESSORIES SHALL BE ANCHORED W/ MIN. #10 SCREW AT EA. ATTACHMENT POINT PROVIDED BY MANUF.



4C A3.0 **TOILET ACCESSORIES INSTALLATION DTL.**

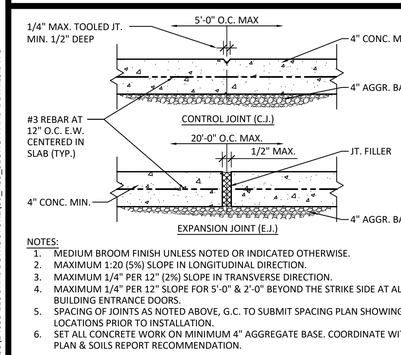
SCALE: 3/4"=1'-0"

NOTE:
ACCESSIBLE BABY CHANGING TABLES SHALL COMPLY W/ 2022 CBC SECTION 11B-226.4



5C A3.0 **BABY CHANGING STATION (VERTICAL)**

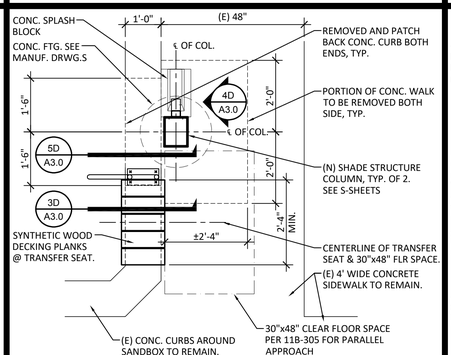
SCALE: 1/2"=1'-0"



NOTES:
1. MEDIUM BROOM FINISH UNLESS NOTED OR INDICATED OTHERWISE.
2. MAXIMUM 1:20 (5%) SLOPE IN LONGITUDINAL DIRECTION.
3. MAXIMUM 1/4" PER 12" (2%) SLOPE IN TRANSVERSE DIRECTION.
4. MAXIMUM 1/4" PER 12" SLOPE FOR 5'-0" & 2'-0" BEYOND THE STRIKE SIDE AT ALL BUILDING ENTRANCE DOORS.
5. SPACING OF JOINTS AS NOTED ABOVE, G.C. TO SUBMIT SPACING PLAN SHOWING ALL LOCATIONS PRIOR TO INSTALLATION.
6. SET ALL CONCRETE WORK ON MINIMUM 4" AGGREGATE BASE. COORDINATE WITH CIVIL PLAN & SOILS REPORT RECOMMENDATION.

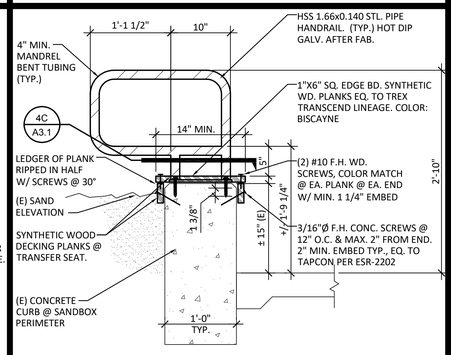
1D A3.0 **CONCRETE PAVING (TYP.)**

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



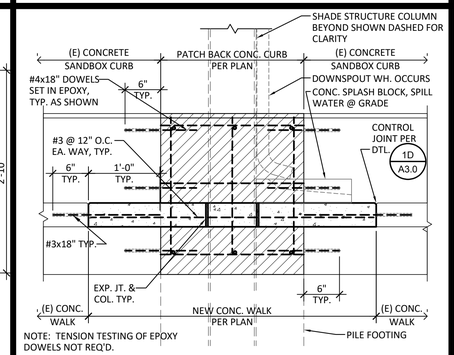
2D A3.0 **TRANSFER SEAT PLAN VIEW**

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



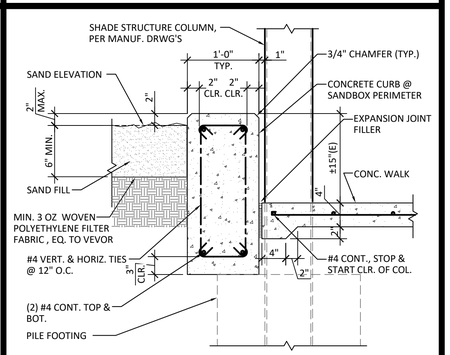
3D A3.0 **HANDRAIL @ CURB SECTION**

FILE: SCALE: 1"=1'-0"



4D A3.0 **SANDBOX CURB PATCH BACK DETAIL**

FILE: SCALE: 1"=1'-0"



5D A3.0 **CONC. SANDBOX CURB DETAIL**

FILE: SCALE: 1"=1'-0"

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2130 21st Street
Sacramento, CA 95818
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2025-03-11

DSA #02-123096
FILE #48-C1

SHADE STRUCTURE REPLACEMENT

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4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA BACKCHECK SET

REVISIONS

NO.	DESCRIPTION	DATE

SECTIONS AND DETAILS

MARCH 11, 2025

DRAWN BY: LR
CHECKED BY: KD
JOB NO. 24055

A3.0

3/11/2025 11:19 AM BRYAN
E:\SOLANO CC\24055 ELC SHADE STRUCTURE\06_A3S_SECTION AND DETAILS.DWG

MATERIAL SPECIFICATIONS FOR MATERIALS NOT ASSIGNED UNDER THE SHADE STRUCTURE PC DRAWINGS :

SECTION 03 21 00 - REINFORCING BARS

A. REINFORCEMENT BARS: ASTM A615, GRADE 60 FOR ALL BARS
   1. BAR REINFORCEMENT TO BE WELDED SHALL MEET CHEMICAL REQUIREMENTS OF ASTM A706
   2. LONGITUDINAL REINFORCEMENT IN COLUMNS AND BEAMS OF SPECIAL MOMENT-RESISTING FRAMES AND SPECIAL REINFORCED SHEAR WALLS SHALL MEET THE CHEMICAL REQUIREMENTS OF ASTM A706
B. STIRRUPS AND TIES: ASTM A615, GRADE 60 FOR ALL BARS
C. STEEL DOWELS: SAME GRADE AS BARS TO WHICH DOWELS ARE CONNECTED
D. TIE WIRES: FS-QQ-W-461, ANNEALED STEEL, BLACK, 16 GAUGE MINIMUM
E. BAR SUPPORTS:
   1. TYPICAL, UNLESS NOTED OTHERWISE; CRSI CLASS 2 WIRE SUPPORTS
      a. DO NOT USE WOOD, BRICK OR OTHER OBJECTIONABLE MATERIALS
      b. DO NOT USE GALVANIZED SUPPORTS

SECTION 03 30 00 - CAST-IN-PLACE CONCRETE

MATERIALS:

A. PORTLAND CEMENT: ASTM C 150, TYPE II OR TYPE V. ONE BRAND OF CEMENT SHALL BE USED THROUGHOUT TO MAINTAIN UNIFORM COLOR FOR ALL EXPOSED CONCRETE.
B. CONCRETE AGGREGATE: FINE AND COARSE AGGREGATES SHALL BE REGARDED AS SEPARATE INGREDIENTS. EACH SIZE OF COARSE AGGREGATE, AS WELL AS COMBINATION OF SIZES WHEN TWO OR MORE ARE USED, SHALL CONFORM TO GRADING REQUIREMENTS OF APPROPRIATE ASTM STANDARDS AND ACI 318.
   1. CONCRETE AGGREGATES FOR STANDARD WEIGHT CONCRETE: ASTM C 33. AGGREGATE SHALL BE CRUSHED GRANITE OR PERKINS TYPE.
   2. CONCRETE AGGREGATES FOR LIGHTWEIGHT CONCRETE: ASTM C330 TO PRODUCE CONCRETE WEIGHING NO MORE THAN 116 PCF AT 28 DAYS. AGGREGATE SHALL BE VACUUM SATURATED EXPANDED SHALE AS PRODUCED THROUGH THE ROTARY KILN METHOD.
C. WATER: CLEAN AND FREE FROM INJURIOUS AMOUNTS OF OIL, ACIDS, ALKALI, ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES; SUITABLE FOR DOMESTIC CONSUMPTION.
D. ADMIXTURES SHALL BE SUBJECT TO PRIOR APPROVAL BY THE ARCHITECT, IN ACCORDANCE WITH ACI 318 SECTION 26.4.1.4. CALCIUM CHLORIDE IS NOT PERMITTED.
   1. WATER REDUCING
      a. ASTM C494 TYPE A _ FOR USE IN COOL WEATHER.
      b. ASTM C494 TYPE D _ FOR USE IN HOT WEATHER.
   2. AIR ENTRAINING
      a. CONFORM TO ASTM C 260
   3. MID-RANGE WATER-REDUCERS
      a. MASTER BUILDERS "POLYHEED" OR APPROVED EQUAL.
E. BONDING AGENT: SONNEBORN "SONOBOND"; THE EUCLID CHEMICAL COMPANY "EUCO-WELD"; LARSEN PRODUCTS CORP., "WELD-CRETE" OR APPROVED EQUIVALENT.
F. CONCRETE SEALER: CURE AND SEAL, AS MANUFACTURED BY THE EUCLID CHEMICAL COMPANY "AQUA-CURE VOX", SONNEBORN "KURE-N-SEAL WB", BURKE "SPARTAN-COTE",W.R. MEADOWS "INTEX" OR APPROVED EQUAL CONFORMING TO ASTM C-309, TYPE I, CLASS B REQUIREMENTS, AND CONFORMING TO STATE OF CALIFORNIA AIR RESOURCES BOARD VOC REGULATIONS.

CONCRETE:

A. CONCRETE MIX:
   1. TYPE A CONCRETE: CURBS, SLAB ON GRADE, ETC.
      STRENGTH: 3500 LBS. PER SQUARE INCH AT 28 DAYS.
      MAXIMUM AGGREGATE SIZE: 1 INCH.
      CEMENT CONTENT: AS REQUIRED BY MIX DESIGN (ACI 318 SECTION 26.4.3)
      6.0 SACKS PER YARD MINIMUM
      MAXIMUM WATER TO CEMENT RATIO: 0.45
      ADMIXTURE: WATER REDUCING
      WEIGHT: 145 LBS. PER CUBIC FOOT
B. CONSISTENCY OF CONCRETE: CONCRETE SLUMP, MEASURED IN ACCORDANCE WITH ASTM C 143, SHALL FALL WITHIN FOLLOWING LIMITS.
   1. FOR GENERAL CONCRETE PLACEMENT (WITH NO ADMIXTURES): 4 INCH ± 1 INCH.
   2. MIXES EMPLOYING THE SPECIFIED MID-RANGE WATER REDUCER SHALL PROVIDE A MEASURED SLUMP NOT TO EXCEED 7 INCH +1 INCH AFTER DOSING, 2 INCH +1 INCH BEFORE DOSING.
   3. CONCRETE SLUMP SHALL BE TAKEN AT POINT OF PLACEMENT. USE WATER REDUCING ADMIXTURES AS REQUIRED TO PROVIDE A WORKABLE CONSISTENCY FOR PUMP MIXERS. WATER SHALL NOT BE ADDED AT THE JOBSITE WITHOUT WRITTEN REVIEW BY THE STRUCTURAL ENGINEER.
C. MIX DESIGN:
   1. INITIAL MIX DESIGN SHALL BE PREPARED FOR ALL CONCRETE IN ACCORDANCE WITH ACI 318 SECTION 26.4.3. MIX PROPORTIONS SHALL BE DETERMINED IN ACCORDANCE WITH ACI 318 SECTION 26.4.3 OR 26.4.4. IN THE EVENT THAT ADDITIONAL MIX DESIGNS ARE REQUIRED DUE TO DEPLETION OF AGGREGATE SOURCES, AGGREGATE NOT CONFORMING TO SPECIFICATIONS OR AT REQUEST OF CONTRACTOR, THESE MIXES SHALL BE PREPARED AS ABOVE.
   2. CONTRACTOR SHALL NOTIFY THE TESTING LABORATORY AND ARCHITECT OF INTENT TO USE CONCRETE PUMPS TO PLACE CONCRETE SO THAT MIX DESIGNS CAN BE MODIFIED ACCORDINGLY.
   3. PROVIDE 6% AIR ENTRAINMENT TYPICAL FOR EXTERIOR CONCRETE EXPOSED TO FREEZE-THAW CYCLES.5. OWNER'S TESTING LABORATORY SHALL REVIEW ALL MIX DESIGNS BEFORE SUBMITTAL. A REGISTERED CIVIL ENGINEER WITH EXPERIENCE IN CONCRETE MIX DESIGN SHALL REVIEW THE CONCRETE MIXES.
D. MIXING:
   1. EQUIPMENT: ALL CONCRETE SHALL BE MACHINE MIXED. PROVIDE ADEQUATE EQUIPMENT AND FACILITIES FOR ACCURATE MEASUREMENT AND CONTROL OF MATERIALS.
   2. METHOD OF MIXING:
      a. TRANSIT MIXING: COMPLY WITH ASTM C 94. READY MIXED CONCRETE SHALL BE USED THROUGHOUT, EXCEPT AS SPECIFIED BELOW.
      b. ON_SITE MIXING: USE ONLY IF METHOD OF STORING MATERIAL, MIXING OF MATERIAL AND TYPE OF MIXING EQUIPMENT IS APPROVED BY ARCHITECT. APPROVAL OF SITE MIXING DOES NOT RELIEVE CONTRACTOR OF ANY OTHER REQUIREMENTS OF SPECIFICATIONS.
      c. MIXING SHALL BE IN ACCORDANCE WITH ASTM C94 OR ASTM C685.
   3. MIXING TIME: AFTER MIX WATER HAS BEEN ADDED, CONCRETE SHALL BE MIXED NOT LESS THAN 1_1/2 MINUTES NOR MORE THAN 1_1/2 HOURS. CONCRETE SHALL BE REJECTED IF NOT DEPOSITED WITHIN THE TIME SPECIFIED.
   4. ADMIXTURES:
      a. AIR ENTRAINING AND CHEMICAL ADMIXTURES SHALL BE CHARGED INTO MIXER AS A SOLUTION AND SHALL BE DISPENSED BY AN AUTOMATIC DISPENSER OR SIMILAR METERING DEVICE. POWDERED ADMIXTURES SHALL BE WEIGHED OR MEASURED BY VOLUME AS RECOMMENDED BY MANUFACTURER. ACCURACY OF MEASUREMENT OF ANY ADMIXTURE SHALL BE WITHIN PLUS OR MINUS 3%.
      b. TWO OR MORE ADMIXTURES MAY BE USED IN SAME CONCRETE, PROVIDED SUCH ADMIXTURES ARE ADDED SEPARATELY DURING BATCHING SEQUENCE, AND PROVIDED FURTHER THAT ADMIXTURES USED IN THAT COMBINATION RETAIN FULL EFFICIENCY AND HAVE NO DELETERIOUS EFFECT ON CONCRETE OR ON PROPERTIES OF EACH OTHER.
      c. ALL ADMIXTURES ARE TO BE APPROVED BY STRUCTURAL ENGINEER PRIOR TO COMMENCING THIS WORK.

MATERIAL SPECIFICATIONS CONTINUED :

SECTION 05 05 19 - POST-INSTALLED CONCRETE ANCHORS

1. QUALITY ASSURANCE
   A. INSTALLER QUALIFICATIONS:
      1. DRILLED-IN ANCHORS SHALL BE INSTALLED BY AN INSTALLER WITH AT LEAST FIVE YEARS OF EXPERIENCE PERFORMING SIMILAR INSTALLATIONS.
      2. ADHESIVE ANCHOR INSTALLERS SHALL BE CERTIFIED IN ACCORDANCE WITH THE ACI- CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.

   B. INSTALLER TRAINING: CONDUCT A THOROUGH TRAINING WITH THE MANUFACTURER OR THE MANUFACTURER'S REPRESENTATIVE FOR THE INSTALLER ON THE PROJECT. TRAINING TO CONSIST OF A REVIEW OF THE COMPLETE INSTALLATION PROCESS FOR DRILLED-IN ANCHORS, TO INCLUDE BUT NOT LIMITED TO:
      1. HOLE DRILLING PROCEDURE
      2. HOLE PREPARATION & CLEANING TECHNIQUE
      3. ADHESIVE INJECTION TECHNIQUE & DISPENSER TRAINING / MAINTENANCE
      4. REBAR DOWEL PREPARATION AND INSTALLATION
         A. PROOF LOADING/TORQUEING PER THE CONTRACT DRAWINGS AND APPLICABLE ICC ESR REQUIREMENTS

      5. CERTIFICATIONS: UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER, ANCHORS SHALL HAVE THE FOLLOWING CERTIFICATION: ICC ES EVALUATION REPORT INDICATING CONFORMANCE WITH CURRENT APPLICABLE ICC ES ACCEPTANCE CRITERIA.

   C. SUBMITTALS: (SUBMIT UNDER PROVISIONS OF SECTION 01 33 23)
      1. PRODUCT SPECIFICATIONS WITH RECOMMENDED DESIGN VALUES AND PHYSICAL CHARACTERISTICS FOR EPOXY DOWELS, EXPANSION, AND UNDERCUT ANCHORS.
      2. SAMPLES: REPRESENTATIVE LENGTH AND DIAMETERS OF EACH TYPE ANCHOR SHOWN ON THE DRAWINGS.
      3. QUALITY ASSURANCE SUBMITTALS:
         A. TEST REPORTS: CERTIFIED TEST REPORTS SHOWING COMPLIANCE WITH SPECIFIED PERFORMANCE CHARACTERISTICS AND PHYSICAL PROPERTIES.
         B. CERTIFICATES:
         C. ICC ES EVALUATION REPORTS

      4. MANUFACTURER'S INSTALLATION INSTRUCTIONS

      5. INSTALLER QUALIFICATIONS & PROCEDURES: SUBMIT INSTALLER QUALIFICATIONS AS DESCRIBED HEREIN AND ON THE DRAWINGS. SUBMIT A LETTER OF PROCEDURE STATING METHOD OF DRILLING, THE PRODUCT PROPOSED FOR USE, AND THE COMPLETE INSTALLATION PROCEDURE INCLUDING THE STEEL REINFORCEMENT DETECTION SYSTEM.

2. MATERIALS
   A. PRODUCTS AND MATERIALS AS INDICATED ON THE DRAWING GENERAL NOTES AND DETAILS.
   B. ADHESIVE ANCHORS:
      1. CRACKED CONCRETE EPOXY ADHESIVES: ANCHORS USED TO TRANSMIT LOAD 1) BETWEEN STRUCTURAL ELEMENTS AND/OR 2) FROM LIFE SAFETY-RELATED ATTACHMENTS, SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318 APPENDIX D AS AMENDED BY THE SPECIFIC DESIGN PROVISIONS OF ICC-ES AC308. ADHESIVES SHALL BE A CARTRIDGE TYPE, TWO-COMPONENT, HIGH SOLIDS EPOXY BASED SYSTEM DISPENSED AND MIXED THROUGH A STATIC MIXING NOZZLE SUPPLIED BY THE MANUFACTURER. THE ADHESIVE SHALL MEET THE MINIMUM REQUIREMENTS OF ASTM C-881 TYPE I AND IV, GRADE 3, CLASS C. ACCEPTABLE INSTALLATION AND PERFORMANCE TEMPERATURE RANGES SHALL BE VERIFIED WITH MANUFACTURER'S LITERATURE PRIOR TO INSTALLATION. EPOXY ADHESIVES SHALL HAVE AN EVALUATION REPORT ISSUED BY ICC-ES AND HAVE BEEN TESTED AND QUALIFIED FOR USE IN CRACKED AND UNCRACKED CONCRETE IN ACCORDANCE WITH ICC-ES AC308 FOR ALL MANDATORY TESTS AND INCLUDING THE FOLLOWING:
         a. SEISMIC TENSION AND SHEAR IN CRACKED CONCRETE
         b. STATIC AND CYCLIC CRACKS
         c. HORIZONTAL AND OVERHEAD INSTALLATIONS
         d. LONG TERM CREEP AT ELEVATED TEMPERATURES
         e. DAMP HOLES
         f. FREEZE-THAW CONDITIONS
         g. CRITICAL AND MINIMUM EDGE DISTANCE AND SPACING
         h. UNLESS OTHERWISE NOTES, CRACKED CONCRETE EPOXY ADHESIVES SHALL COMPLY WITH ICC-ES ESR-2508 OR BE EQUAL IN TESTING STANDARDS.
   C. CONCRETE AND MASONRY SCREW ANCHORS:
      1. CRACKED CONCRETE SCREW ANCHORS: ANCHORS USED TO TRANSMIT LOAD 1) BETWEEN STRUCTURAL ELEMENTS AND/OR 2) FROM LIFE SAFETY-RELATED ATTACHMENTS, SHALL BE DESIGNED IN ACCORDANCE WITH ACI 318 APPENDIX D AS AMENDED BY THE SPECIFIC DESIGN PROVISIONS OF ICC-ES AC193. ANCHORS SHALL BE MANUFACTURED FROM CARBON STEEL WHICH IS SUBSEQUENTLY HEAT-TREATED. ANCHORS SHALL BE ZINC-PLATED IN ACCORDANCE WITH ASTM B633, CLASS SC1, TYPE I. ANCHORS SHALL HAVE AN EVALUATION REPORT ISSUED BY ICC-ES AND HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC193 FOR ALL MANDATORY AND INCLUDING THE FOLLOWING:
         a. SEISMIC TENSION AND SHEAR
         b. RELIABILITY OF SCREW ANCHORS AGAINST BRITTLE FAILURE
         c. LESS OTHERWISE NOTED, CRACKED CONCRETE SCREW ANCHORS SHALL COMPLY WITH ICC-ES ESR-2713 OR ICC-ES ESR-2713 OR BE EQUAL IN TESTING STANDARDS.

   D ANCHOR SIZES:
      1. THE ANCHOR SIZE (NOMINAL DIAMETER AND EMBEDMENT DEPTH) SHALL BE AS INDICATED ON THE CONTRACT DRAWINGS. IF NOT INDICATED ON THE DRAWINGS, SIZES SHALL BE PROVIDED AS REQUIRED TO MAINTAIN NOT LESS THAN THE APPROPRIATE CODE SAFETY FACTORS OVER MANUFACTURER'S PERFORMANCE LOAD TABLES. IF THE ACTUAL CONCRETE COMPRESSIVE STRENGTH IS NOT KNOWN, THE COMPRESSIVE STRENGTH SHALL BE DETERMINED THROUGH TESTING.

MATERIAL SPECIFICATIONS CONTINUED :

SECTION 05 50 00 - METAL FABRICATION

MATERIALS:

A. STEEL SECTIONS: ASTM A36
B. STEEL TUBING: ASTM A501
C. STEEL PIPE: ASTM A36, STANDARD WEIGHT BLOCK STEEL GALVANIZED AFTER FABRICATION
D. WELDING MATERIALS: AWS DL.1; TYPE REQUIRED FOR MATERIALS BEING WELDED

FABRICATION

A. VERIFY DIMENSIONS ON SITE AND INCLUDE IN THE SHOP DRAWINGS PRIOR TO SHOP FABRICATION.
B. FABRICATE ITEMS WITH JOINTS TIGHTLY FITTED AND SECURED.
C. FIT AND SHOP ASSEMBLE IN LARGEST PRACTICAL SECTIONS, FOR DELIVERY TO SITE.
D. GRIND EXPOSED WELDS FLUSH AND SMOOTH WITH ADJACENT FINISHED SURFACE. EASE EXPOSED EDGES TO SMALL UNIFORM RADIUS.
E. EXPOSED MECHANICAL FASTENINGS: FLUSH COUNTERSUNK SCREWS OR BOLTS; UNOBTRUSIVELY LOCATED; CONSISTENT WITH DESIGN OF STRUCTURE, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.
F. MAKE EXPOSED JOINTS BUTT TIGHT, FLUSH, AND HAIRLINE. SUPPLY COMPONENTS REQUIRED FOR ANCHORAGE OF METAL FABRICATIONS. FABRICATE ANCHORAGE AND RELATED COMPONENTS OF SAME MATERIAL AND FINISH AS METAL FABRICATION, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.

FINISH

A. CLEAN SURFACES OF RUST, SCALE, GREASE, AND FOREIGN MATTER PRIOR TO FINISHING.
B. DO NOT PRIME SURFACES TO DIRECTLY BOND WITH CONCRETE OR WHERE FIELD WELDING IS REQUIRED.
C. GALVANIZED ITEMS TO RECEIVE MINIMUM 1.25 OZ/SQ.FT. ZINC COATING IN ACCORDANCE WITH ASTM A123.
D. GALVANIZING TOUCH-UP PAINT APPLIED IN THE FIELD AFTER WELDING SHALL COMPLY WITH ASTM A780.

SECTION 06 73 00 - COMPOSITE DECKING

MATERIALS:

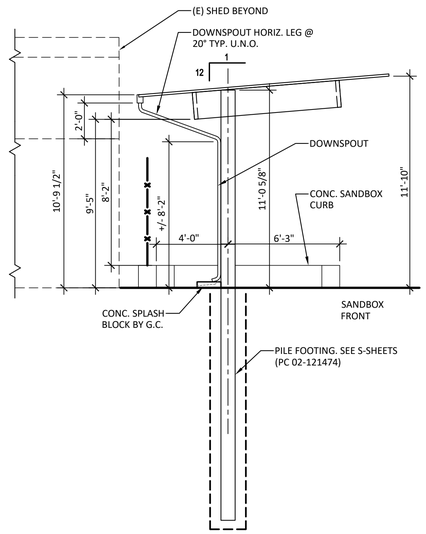
A. WOOD-PLASTIC COMPOSITE LUMBER;
   1. MATERIAL DESCRIPTION: COMPOSITE DECKING CONSISTING OF RECYCLED LINEAR LOW DENSITY POLYETHYLENE (LLDPE) AND RECYCLED WOOD. THE PRODUCT IS EXTRUDED INTO SHAPES AND SIZES AS FOLLOWS:
      a. TREX TRANSCEND LINEAGE DECKING BOARDS; 1 X 5.5" SOLID PROFILE.
      b. LENGTHS - 12, 16, AND 20 FEET
      c. COLOR - TO BE SPECIFIED BY OWNER FROM TREX' STANDARD LIST OF COLORS.
   2. PHYSICAL AND MECHANICAL PROPERTIES AS FOLLOWS:

Test	Test Method	Value
Flame Spread Index	ASTM E84	Class B
Thermal Expansion	ASTM D1037	1.9 x 10^{-5} inch/inch/degreeF
Moisture Absorption	ASTM D1037	< 1%
Screw Head Pull-Through	ASTM D1761	161 lbf per screw
Fungus Resistance	ASTM D1413	Rating - no decay
Termite Resistance	AWPA E1-72	Rating = 9.7

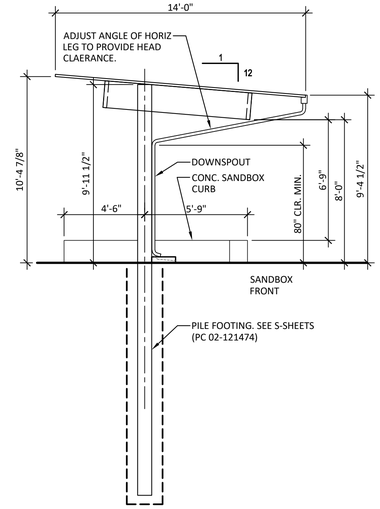
ACCESSORIES

A. FASTENERS:
   1. TREX UNIVERSAL HIDEAWAY HIDDEN FASTENERS

LAYOUT FOR AREA #2



LAYOUT FOR AREAS #1, #3, & #4

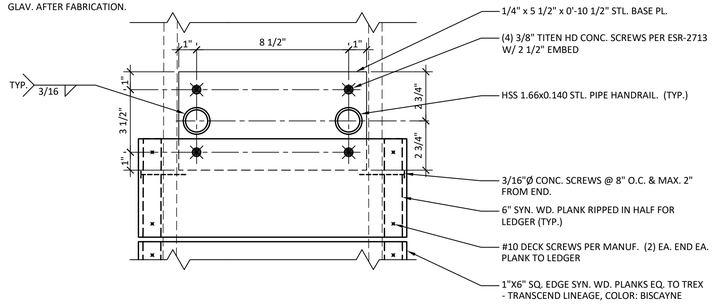


4B A3.1 TYP. SHADE STRUCTURE - ELEVATION

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

3C A3.1

GENERAL NOTES:
1. ALL STL. PARTS TO BE HOT-DIP GLAV. AFTER FABRICATION.

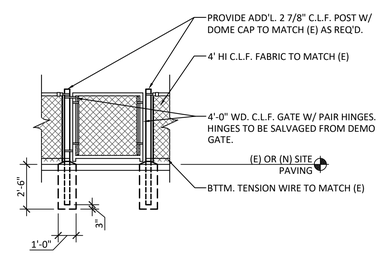


4C A3.1 HANDRAIL BASEPLATE

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

3D A3.1

4D A3.1



5D A3.1 CHAIN LINK MAINTENANCE GATE

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

HMR ARCHITECTS
2130 21st Street
Sacramento, CA 95818
T 916 736 2724

BID SET 2025-03-11

DSA #02-123096
FILE #48-C1

SHADE STRUCTURE REPLACEMENT

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA BACKCHECK SET

REVISIONS

NO.	DESCRIPTION	DATE

DETAILS

MARCH 11, 2025

DRAWN BY: LR
CHECKED BY: KD
JOB NO. 24055

A3.1

3/11/2025 11:19 AM BRYAN
E:\SOLANO CC\24055 ELC SHADE STRUCTURE\06_A3S_SECTION AND DETAILS.DWG

GENERAL NOTES

1. 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.

2. 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.

3. 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.

4. 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.

5. 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.

6. ANY CHANGES TO THE APPROVED SET OF PLANS WITHOUT NOTIFYING THE ENGINEER PRIOR TO SUCH CHANGES ABSOLVES SAID ENGINEER FROM ANY AND ALL RESPONSIBILITY WITH RESPECT TO LIABILITY, DAMAGE OR EXTRA WORK RESULTING FROM SAID CHANGES.

7. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.

8. 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.

9. 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 PSF & 30.8 PSF — Ce = 1.1 Ct = 1.2 — Cs = 1.0
Is = 1.0 RISK CATEGORY II — Is = 1.1 RISK CATEGORY II — ICE LOAD = 0 PSF

SEISMIC: I_E = 1.0 AT RISK CATEGORY II — I_E = 1.25 AT RISK CATEGORY III
SEISMIC DESIGN CATEGORY = E — ρ = 1.3 FOR OFFSET CONFIGURATION

STRUCTURE IS A STEEL ORDINARY CANTILEVERED COLUMN SYSTEM (02 PER ASCE7-16)
R = 1.25/0.7 (FOR WORKING STRESS)
Ωo = 1.25 Cd = 1.25
SOIL SITE CLASS = D
FOR 12' COLUMN HEIGHT T = 0.361
FOR 14' COLUMN HEIGHT T = 0.45
FOR 16' COLUMN HEIGHT T = 0.497

BASE SHEAR: V = ρ x Cs x W
RISK CATEGORY II V = 0.728W (ASD) FOR S_{DS} = 1.0
LOW SEISMIC & RC II V=0.728W (ASD) FOR S_{DS}=0.8
RISK CATEGORY II V = 1.82W (ASD) FOR S_{DS} = 2.5
HIGH SEISMIC & RC III V=1.82W (ASD) FOR S_{DS}=2.0

WIND LOAD: 107 MPH, EXPOSURE C — RISK CATEGORY II OR RISK CATEGORY III
Kd = 0.85 — Kzt = 0.90 Kzt = 1.0 Kn = 1.00

qh = 21.42 (qh = 0.00256 x Kz x Ke x Kzt x Kd x V^2 x 0.6 (FOR WORKING STRESS)). THE STRUCTURE IS DESIGNED FOR CLEAR & OBSTRUCTED WIND FLOWS. MAXIMUM BASIC WIND LOAD FOR PROJECT LOCATION 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.

10. GOVERNING CODE: 2022 CBC

11. ALLOWABLE SOIL BEARING IS BASED ON 1500 PSF & 100 PCFx2 PASSIVE PRESSURE PER CBC TABLE 1806A.2 & SECTION 1806A.3.4. SKIN FRICTION IS PER 1810A.3.3.1.4 & IS EQUAL TO 1500/3=250 PSF. FOR UPLIFT SKIN FRICTION SHALL BE 125 PSF (S.F. OF 2). 1/3 INCREASE WAS NOT USED FOR ANY VALUES. TOP OF PIER IS ASSUMED TO MOVE ONE-HALF INCH.

12. ALL WORK TO BE PERFORMED UNDER THE CONTINUOUS INSPECTION OF A D.S.A. APPROVED INSPECTOR.

13. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

14. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR AND THE ENGINEER.

15. 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, CCR.

CONCRETE NOTES

1. ALL MOLDS, ORNAMENTS, GROOVES, ETC. SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE PROVIDED FOR IN THE FORM WORK BEFORE THE CONCRETE IS POURED.
2. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND OTHER EMBEDS SHALL BE IN PLACE AND SECURED TO FORM WORK PRIOR TO POURING OF CONCRETE.
3. REFER TO BOTH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION OF PLUMBING FIXTURES.
4. NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE WALLS OR STRUCTURAL SLABS UNLESS SPECIFICALLY DETAILED.
5. 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 ARCHITECTS APPROVAL OF CONSTRUCTION JOINT LOCATION IN ALL STRUCTURAL SLAB, BEAMS AND SHEAR WALLS.
6. SIDES OF FOOTINGS MAY BE POURED AGAINST STABLE EARTH.
7. THE QUALITY AND DESIGN OF CONCRETE SHALL COMPLY WITH TITLE 24 PART 2 EXCEPT ITEMS NOT SPECIFICALLY COVERED THEREIN SHALL CONFORM TO ACI 318.
8. 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.

9. MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS:
   CAST AGAINST EARTH (EXCEPT SLABS ON GRADE)..... 3"
   SLABS ON GRADE..... 1-1/2"
   EXPOSED TO EARTH OR WEATHER
   #5 BARS AND SMALLER..... 1-1/2"
   #6 BARS AND LARGER..... 2"
   NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
   SLABS, WALLS, JOISTS
   #11 BARS AND SMALLER..... 3/4"
   #14 AND #18 BARS..... 1-1/2"
   BEAMS, GIRDERS, COLUMNS
   PRINCIPAL REINFORCING, TIES
   STIRRUPS, OR SPIRALS..... 1-1/2"
   SHELLS AND FOLDED PLATE MEMBERS
   #5 BARS AND SMALLER..... 1/2"
   #6 BARS AND LARGER..... 3/4"
10. CONCRETE SHALL HAVE FOLLOWING MINIMUM REQUIREMENTS FOR THE FOLLOWING EXPOSURE CATEGORIES AND 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.
11. THE ENGINEER DOES NOT PROVIDE CONTRACT ADMINISTRATION FOR THE PROJECT, INCLUDING REVIEW OF CONCRETE MIXES.
12. 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 BY PERCENT OF MASS 20.10%, SHALL NOT BE EXPOSED TO EXTERNAL SOURCE OF CHOLORIDES.
13. CEMENT SHALL COMPLY W/ ASTM C150 AND AGGREGATE SHALL COMPLY W/ ASTM C33.

STRUCTURAL STEEL NOTES

1. 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.
2. STRUCTURAL PIPE SHALL CONFORM TO ASTM A-53 GRADE "B" AND STRUCTURAL TUBING SHALL CONFORM TO ASTM A-500 GRADE "B", Fy=46KSI.
3. 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.
4. ALL UNFINISHED BOLTS SHALL BE ASTM A-307 UNLESS NOTED OTHERWISE.
5. USE AISC USUAL GAGES FOR BOLT HOLES IN ALL STEEL SECTIONS UNLESS OTHERWISE NOTED.
6. THE STEEL FABRICATOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING FOR ERECTION.
7. 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.
8. ALL STEEL SHALL BE PROTECTED FROM WEATHER AS FOLLOWS: STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED (MIMIMUM 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 S200 TABLE A4-1, CP 90 COATING DESIGNATION.

   ALL EXPOSED STEEL FASTENERS, INCLUDING CAST-IN-PLACE ANCHOR BOLTS/RODS, SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT-DIP GALVANIZED (ASTM A153, CLASS D MINIMUM), OR PROTECTED WITH CORROSION-PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC-PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT. (EXAMPLE PROPRIETARY COATINGS THAT DO COMPLY WITH THE 1,000 HOUR REQUIREMENT INCLUDE BUT ARE NOT NECESSARILY LIMITED TO: QUIK GUARD BY SIMPSON, KWIK-COTE BY HILTI, STALGARD BY ELCO, VISTACORR BY SPS INTEC, ETC.)

GOVERNING CODES:

1. 2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
2. 2022 CALIFORNIA BUILDING CODE, VOLUMES 1 & 2 (PART 2, TITLE 24, CCR).
3. 2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR).
4. 2022 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR).

NOTES

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

TESTING & INSPECTIONS REQUIRMENTS

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

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

1. 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.
2. FOR SITE SPECIFIC PROJECT GERARD HOMER & ASSOCIATES IS NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
3. 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.
4. 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-LOAD WOOD DIAPHRAGMS, 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
CONCRETE
C1. CAST IN PLACE CONCRETE
MATERIAL VERIFICATION AND TESTING:
a. VERIFY USE OF REQUIRED DESIGN MIX.
b. IDENTIFY, SAMPLE & TEST REINFORCING STEEL.
c. DURING CONCRETE 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: – MILL CERTIFICATES INDICATE MATERIAL PROPERTIES THAT COMPLY WITH REQUIREMENTS. – MATERIAL SIZES, TYPES AND GRADES COMPLY WITH REQUIREMENTS.
b. TEST UNIDENTIFIED MATERIALS
c. EXAMINE SEAM WELDS OF HSS SHAPES
INSPECTION:
d. VERIFY AND DOCUMENT STEEL FABRICATION PER DSA-APPROVED CONSTRUCTION DOCUMENTS.

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

5. ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING MAY BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO APPROVAL OF INSPECTOR QUALIFICATIONS, STRUCTURAL OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF THE VERIFIED REPORTS FOR COMPLETED WORK. GERARD HOMER & ASSOCIATES SHALL NOT BE LISTED ON THE DSA 1 OR BE REQUIRED TO SIGN A DSA 1.DEL.
6. GERARD HOMER & ASSOCIATES WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTER OF THE PC WHICH ARISE DURING PLAN CHECK AND CONSTRUCTION.
7. THE ARCHITECT OR DSA SHALL NOT ADD TO OR CHANGE THIS PC WITHOUT PERMISSION FROM GERARD HOMER & ASSOCIATES.

REVISIONS

NO.	DATE	BY	DESCRIPTION

REGISTERED PROFESSIONAL ENGINEER — GERARD HOMER — EXP. 3-31-24 — 52317 — STRUCTURAL — STATE OF CALIFORNIA

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

SHEET INDEX

BUILDING DATA

A-2 FOR LUNCH SHELTER
~~A-3 OCCUPANCY FOR GENERAL ASSEMBLY~~
II-B CONSTRUCTION
ALLOW. AREA = 9500 SQ.FT.
HEIGHT = 8'-0" MIN. TO 16'-0" MAX. COLUMN HEIGHT

BID SET
2025-03-11

PROJECT: SINGLE POST WALKWAY COVER VALLEY SCHOOL SHELTERS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121747-PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐ OSS ☐
DEPARTMENT OF GENERAL SERVICES
DATE: 9/1/2023

16765 SYPERT SCHOOL RD.
HOLLAND, TX. 76534
PH.: (559) 734-6675
Email: ghomerse@gmail.com
Gerard Homer and Associates
STRUCTURAL ENGINEERS

DWN BY: B.G.H.	CHKD BY: G.B.H.
DATE: 8/30/23	
PROJECT NO: 23020	

DRAWING TITLE
FOUNDATION PLAN
GENERAL NOTES
DETAILS

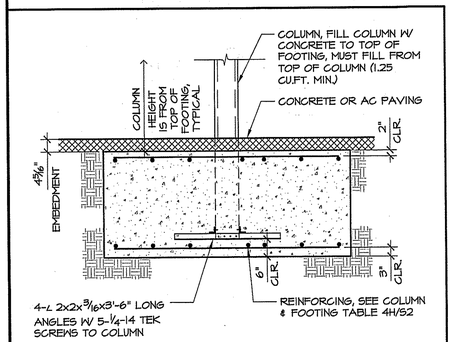
SHEET NUMBER
S1
OF 4 SHEETS

SHEET INDEX & STRUCTURAL TESTS AND INSPECTIONS SHEET — 4K

GENERAL NOTES

NOTES FOR ACHITECT TO VERIFY & COMPLY

1. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY.
2. 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 CCR.
3. LOCATION OF ELECTRICAL COMPONENTS MOUNTED TO COLUMNS SHALL COMPLY WITH ASCE 24-14, SECTION 7.2.
4. THE ARCHITECT SHALL VERIFY COMPLIANCE W/ 6B/S4 (IR 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.



OPTIONAL SPREAD FOOTING @ ADDITIONAL COST — SCALE ½" = 1'-0" — 8B

SITE SPECIFIC INFORMATION TABLE

1.514	SEISMIC COEFFICIENT, Sa			SELECT OCCUPANT LOAD FACTOR (OLF)	DETERMINATION OF BAY SPACING FOR COVER NEXT TO RISK CATEGORY III & S_{DS} > 2.0
0.6	SEISMIC COEFFICIENT, S1 ②	93	WIND SPEED (3 SEC. GUST) @ MPH	X ASSEMBLY-CONCENTRATED (7 SQ. FT./OCCUPANT)	
1.2	SEISMIC COEFFICIENT, Fa	C	WIND EXPOSURE CATEGORY	ASSEMBLY-NONCONCENTRATED (15 SQ. FT. /OCCUPANT)	
1.7	SEISMIC COEFFICIENT, Fv	14	WIDTH OF COVER AREA IN FT.	32 DETERMINE OCCUPANT LOAD = AREA/OLF	25' BAYS x 2.0 ACTUAL S_{DS} x 1.25 = [ ] MAXIMUM BAY SPACING IN FEET **
1.867	SEISMIC COEFFICIENT, Sms	16	LENGTH OF COVERED AREA IN FT.	DETERMINE RISK CATEGORY	** BAY SPACING ON PLAN VIEWS TO BE REVISED TO MATCH & USE HIGHER SEISMIC COLUMNS & FOOTINGS.
1.275	SEISMIC COEFFICIENT, Sm1 ①	224	AREA IN SQ. FT.	X RISK CATEGORY II OCCUPANTS ≤ 300	
0.969	SITE SPECIFIC, Cs ③	1	NUMBER OF BAYS	RISK CATEGORY III OCCUPANTS > 300	
1.211	SEISMIC COEFFICIENT, Sds	12'	MAXIMUM COLUMN HEIGHT IN FT.	RISK CATEGORY III ADJACENT TO RISK CATEGORY II BUILDING	
0.85	SEISMIC COEFFICIENT, Sd1	1 1/12	ROOF SLOPE IN./FT.	NOTE: DUE TO REDUNDANCY FACTOR THERE CAN BE NO REDUCTION IN S_{DS} PER ASCE 7-16 12.8.1.3 FOR COVERS.	

① FOR THE SITE CLASS D, Sm1 SHALL BE INCREASED BY 50% UNLESS A SITE SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED. Sms SHALL NOT BE LESS THAN Sm1.

② FOR SITE CLASS E WITH S1 GREATER THAN OR EQUAL TO 0.2, PROVIDED T IS LESS THAN OR EQUAL TO Te, EQUATION 12.8-2 SHALL BE USED.

③ PER ASCE 7-16 EQUATION 12.8-2.

GEOHAZARD REPORTS			LIQUEFIABLE SOIL OR SITE CLASS F & E		
GEOHAZARD REPORT	REQUIRED	X NOT REQUIRED	LIQUEFIABLE SOILS	YES	X NO
GEOHAZARD 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 GEOHAZARD ZONES. THE STRUCTURES MAY BE SPLIT INTO MULTIPLE SEISMICALLY SEPARATED STRUCTURES TO STAY BELOW THE 4,000 SF. TRIGGER.			IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F & E, 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.		
X CONCRETE EXPOSURE F0		CONCRETE EXPOSURE F2*			

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

IF SITE SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN 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 11.

SINGLE POLE WALKWAY OPTIONS TABLE

LOADING	COLUMN HEIGHT	ROOF PANEL OPTION	PROJECTION
X 20 PSF LL	X 12' HEIGHT	X McELROY MEGA-RIB	8'-0"
20 PSF SL	14' HEIGHT	AEP SPAN HR-36	10'-0"
30 PSF SL	16' HEIGHT	3 P.S.F.* MISC. DEAD LOAD	12'-0"
			X 14'-0"

ROOF PITCH	COLUMN LOCATION	SEISMIC	
X 2:12 MAX.	X OFF-SET	LOWER *	YES
4:12 MAX.	CENTERED	X HIGHER **	X NO
		RC III S_{DS} > 2.0	

NOTES:
1. SEE 6H/S3 FOR ROOF DECK PROFILES & SECTION PROPERTIES.
2. LIVE LOAD, LL = ROOF LIVE LOAD.
3. SNOW LOAD, SL = SNOW LOAD.
4. 3 P.S.F. MISC. DEAD LOAD NOT ALLOWED WITH SNOW LOAD. MISC. DEAD LOAD CAN INCLUDE SPRINKLERS OR SOLAR. BOTH ARE NOT ELIGIBLE FOR OVER THE COUNTER PLAN CHECK. LOADS CAN NOT BE SUPPORTED BY ROOF PANELS. ONLY THE BEAMS & PURLINS CAN SUPPORT MISC. DEAD LOAD.
5. SEE SITE SPECIFIC TABLE.

CONFIGURATION PER 6K/S4: "A" | "B" | "C" | X "D"

* R.C. II Sds ≤ 1.0 & R.C. III Sds ≤ 0.80
** R.C. II Sds ≤ 2.5 & R.C. III Sds ≤ 2.0

6. FOR SNOW LOAD: IF THE HORIZONTAL SEPARATION DISTANCE BETWEEN ADJACENT STRUCTURES, s, IS LESS THAN 20 FT. (6.1 M) AND LESS THAN SIX TIMES THE VERTICAL SEPARATION DISTANCE (s=6h), THEN THE REQUIREMENTS FOR THE LEEWARD DRIFT OF SECTION 7.7.1 SHALL BE USED TO DETERMINE THE DRIFT LOAD ON THE LOWER STRUCTURE. IF THE SNOW DRIFT ANALYSIS IS REQUIRED IT SHALL BE PROVIDED BY THE PC APPLICANT & THE SITE APPLICATION IS NOT ELIGIBLE FOR OVER THE COUNTER SUBMITTAL.

OPTIONS TABLE & SITE SPECIFIC INFORMATION TABLE — 8K

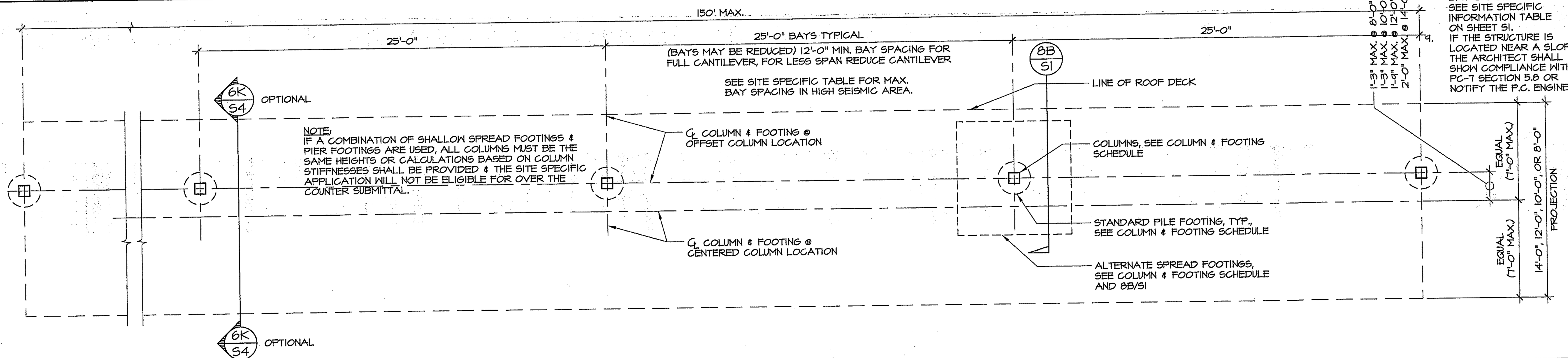
BID SET 2025-03-11

COLUMN & FOOTING TABLE (NOTE 6)

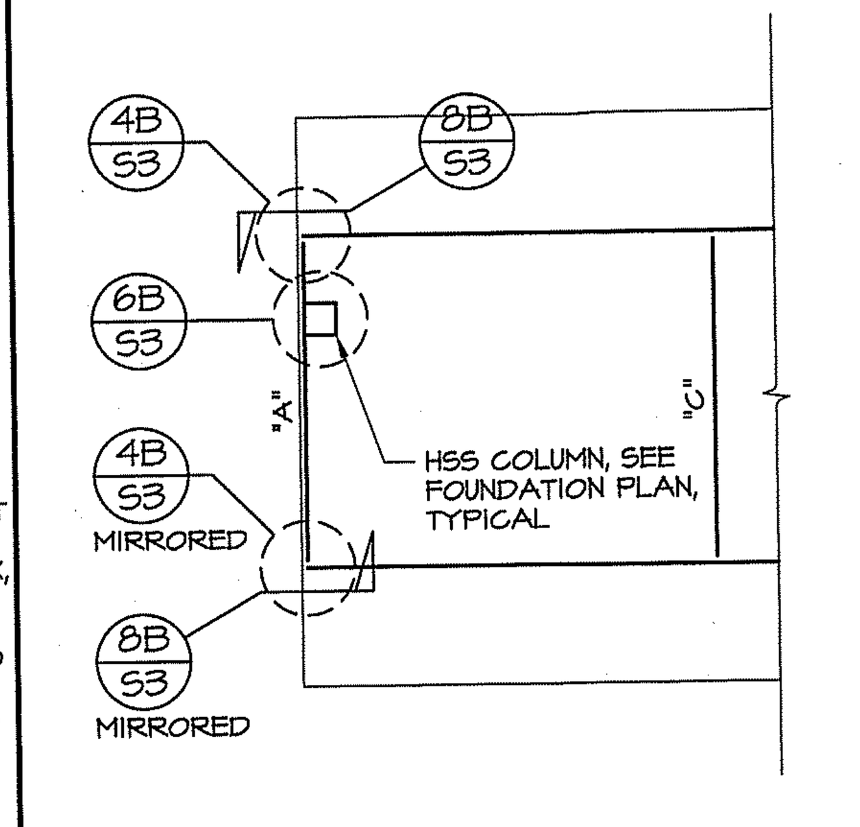
COLUMN HEIGHT	ROOF PITCH	LOAD	LOWER SEISMIC (S_{DS} ≤ 1.0 RISK CATEGORY II) (S_{DS} ≤ 0.8 RISK CATEGORY III): ≤ 12'–0" PROJECTION: COLUMN SIZE	PILE FOOTING	ALTERNATE SPREAD FOOTING (8B/S1) 1	≤ 14'–0" PROJECTION: COLUMN SIZE	PILE FOOTING	ALTERNATE SPREAD FOOTING (8B/S1) 1
12' COLUMN HEIGHT	2:12 MAX.	20psf LL/SL	HSS8x8x1/4	2'-0"Φx10'-3" DEEP	9'-3"SQ.x2'-6" THICK (4)	HSS10x8x5/16	2'-0"Φx11'-9" DEEP	10'-4"SQ.x2'-6" THICK (4)
		30psf SL						
	4:12 MAX.	20psf LL/SL	HSS10x8x5/16	2'-0"Φx12'-2" DEEP	9'-8"SQ.x2'-6" THICK (4)	HSS10x8x3/8	2'-0"Φx13'-0" DEEP	10'-10"SQ.x2'-6" THICK (4)
		30psf SL						
14' COLUMN HEIGHT	2:12 MAX.	20psf LL/SL	HSS8x8x1/4	2'-0"Φx10'-8" DEEP	9'-8"SQ.x2'-6" THICK (4)	HSS10x8x5/16	2'-0"Φx12'-2" DEEP	10'-10"SQ.x2'-6" THICK (4)
		30psf SL	HSS8x8x5/16					
	4:12 MAX.	20psf LL/SL	HSS10x8x5/16	2'-0"Φx12'-6" DEEP	9'-10"SQ.x2'-6" THICK (4)	HSS10x8x3/8	2'-0"Φx13'-2" DEEP	11'-0"SQ.x2'-6" THICK (5)
		30psf SL						
16' COLUMN HEIGHT	2:12 MAX.	20psf LL/SL	HSS8x8x5/16	2'-0"Φx11'-0" DEEP	10'-0"SQ.x2'-6" THICK (4)	HSS10x8x5/16	2'-0"Φx12'-6" DEEP	11'-3"SQ.x2'-6" THICK (5)
		30psf SL						
	4:12 MAX.	20psf LL/SL	HSS10x8x3/8	2'-0"Φx12'-8" DEEP	10'-2"SQ.x2'-6" THICK (4)	HSS10x8x1/2	2'-0"Φx13'-6" DEEP	
		30psf SL						

COLUMN HEIGHT	ROOF PITCH	LOAD	HIGHER SEISMIC (S_{DS} ≤ 2.5 RISK CATEGORY II) (S_{DS} ≤ 2.0 RISK CATEGORY III) (8): ≤ 12'–0" PROJECTION: COLUMN SIZE	PILE FOOTING	ALTERNATE SPREAD FOOTING (8B/S1) 1	≤ 14'–0" PROJECTION: COLUMN SIZE	PILE FOOTING	ALTERNATE SPREAD FOOTING (8B/S1) 1
12' COLUMN HEIGHT	2:12 MAX.	20psf LL/SL	HSS8x8x5/16	2'-0"Φx11'-10" DEEP	10'-6"SQ.x2'-6" THICK (4)	HSS10x8x5/16	2'-0"Φx13'-2" DEEP	11'-4"SQ.x2'-6" THICK (5)
		30psf SL						
	4:12 MAX.	20psf LL/SL	HSS10x8x5/16	2'-0"Φx12'-2" DEEP		HSS10x8x3/8		
		30psf SL						
14' COLUMN HEIGHT	2:12 MAX.	20psf LL/SL	HSS8x8x5/16	2'-0"Φx12'-3" DEEP	11'-0"SQ.x2'-6" THICK (5)	HSS10x8x3/8	2'-0"Φx13'-6" DEEP	11'-10"SQ.x2'-6" THICK (5)
		30psf SL						
	4:12 MAX.	20psf LL/SL	HSS10x8x5/16	2'-0"Φx12'-6" DEEP				
		30psf SL						
16' COLUMN HEIGHT	2:12 MAX.	20psf LL/SL	HSS10x8x3/8	2'-0"Φx12'-8" DEEP	11'-4"SQ.x2'-6" THICK (5)	HSS10x8x1/2	2'-0"Φx14'-0" DEEP	12'-4"SQ.x2'-6" THICK (5)
		30psf SL						
	4:12 MAX.	20psf LL/SL		2'-0"Φx12'-8" DEEP				
		30psf SL						

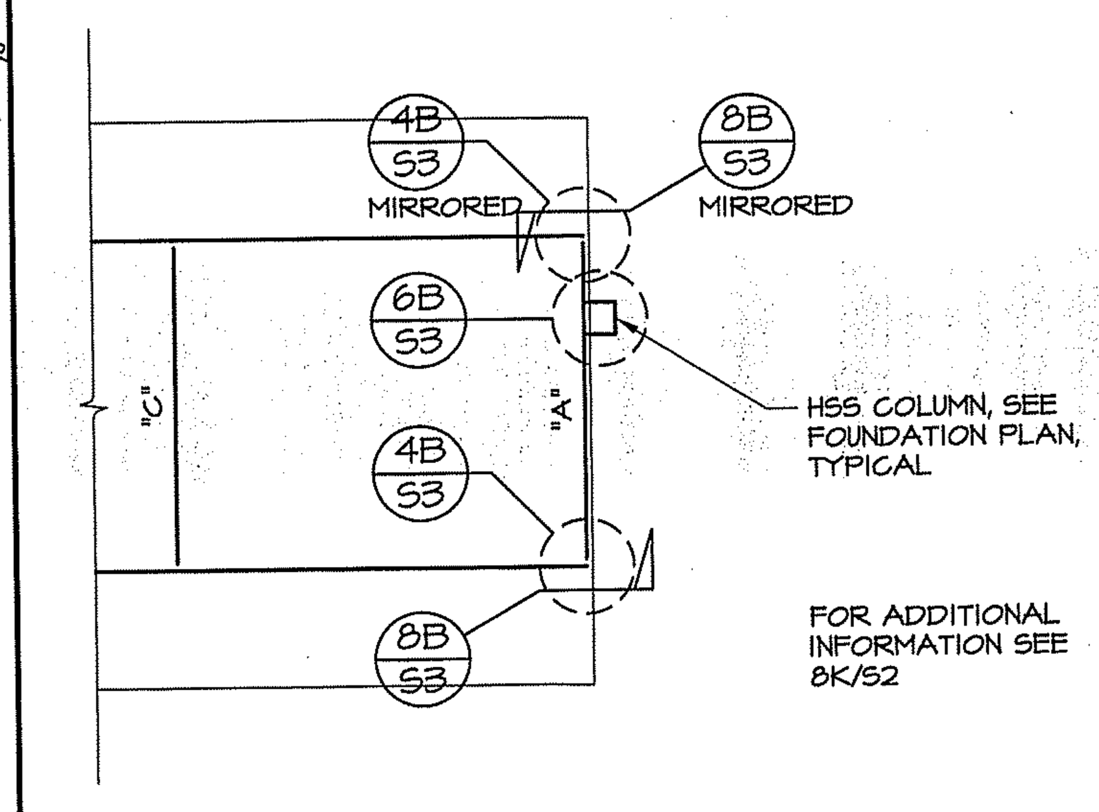
NOTES:
1. ALTERNATE SPREAD FOOTINGS ARE OPTIONAL FOOTINGS @ AN ADDITIIONAL COST.
2. NO SNOW LOAD ALLOWED W/ 3 P.S.F. MISC. DEAD LOAD.
3. COLUMN EMBEDMENT OF PILE FOOTING TO EXTEND INTO FOOTING 3"-6" MAX. FROM BOTTOM, SEE SECTION 6K/S3.
4. PROVIDE 8-#6 REBARS EACH WAY @ TOP & BOTTOM OF FOOTING.
5. PROVIDE 10-#6 REBARS EACH WAY @ TOP & BOTTOM OF FOOTING.
6. 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 11.
7. MINIMUM PIER SPACING IS 3 DIAMETERS.
8. Sds MAXIMUM OR REDUCE BAY SPACING' SEE SITE SPECIFIC INFORMATION TABLE ON SHEET S1.
9. IF THE STRUCTURE IS LOCATED NEAR A SLOPE, THE ARCHITECT SHALL SHOW COMPLIANCE WITH IR PC-7 SECTION 5.8 OR NOTIFY THE P.C. ENGINEER.



FOUNDATION PLAN   SCALE 1/4" = 1'-0"   4H



PLAN @ UPPER ROOF WHERE STEP OCCURS



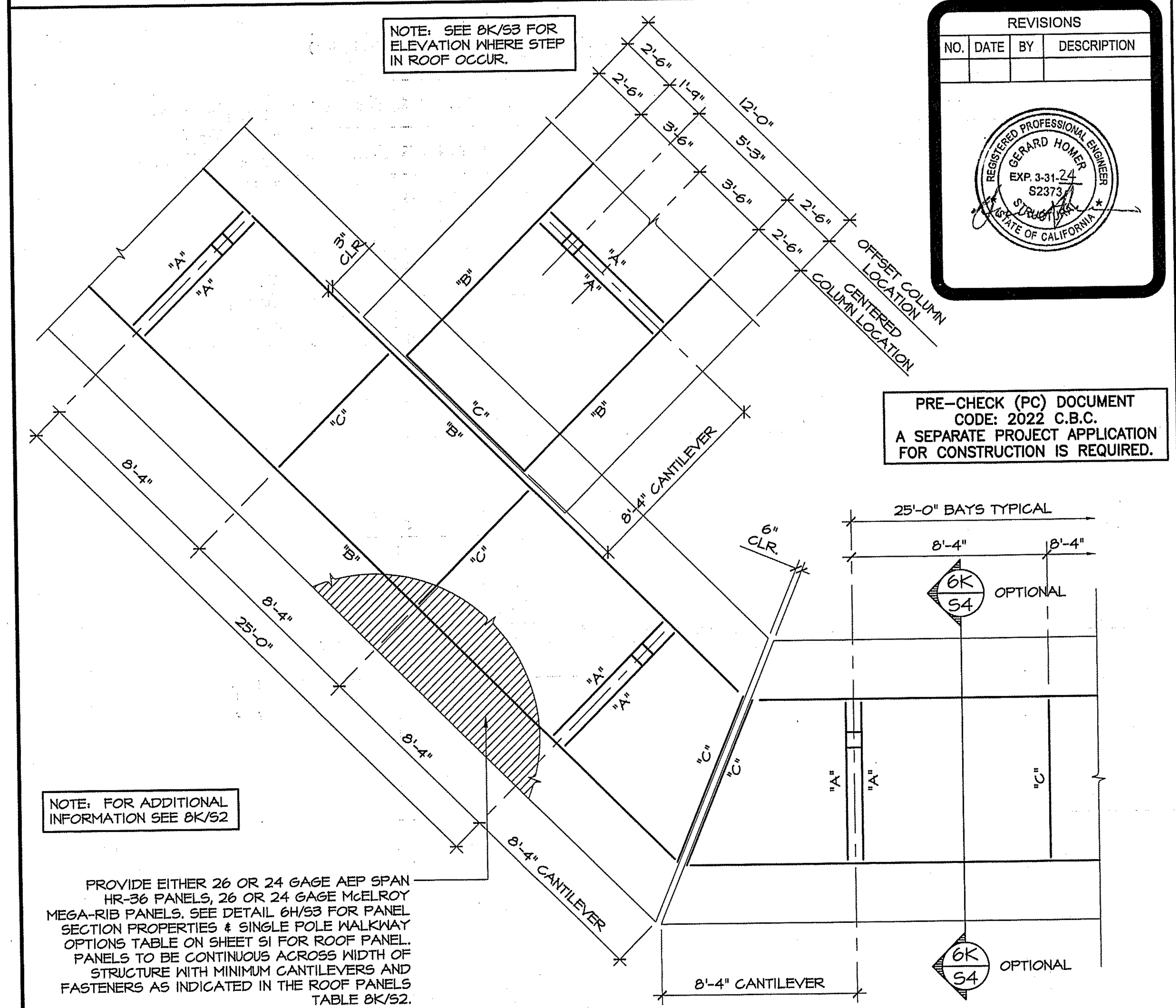
PLAN @ LOWER ROOF WHERE STEP OCCURS

ROOF FRAMING PLAN   SCALE 1/4" = 1'-0"   4K

REVISIONS			
NO.	DATE	BY	DESCRIPTION

REGISTERED PROFESSIONAL ENGINEER GERARD HOMER S2373 EXP. 3-31-24 STRUCTURAL STATE OF CALIFORNIA

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



ROOF FRAMING PLAN @ 45° OPTION   SCALE 1/4" = 1'-0"   8B

ROOF PANEL TABLE (1, 3, 4, & 6)

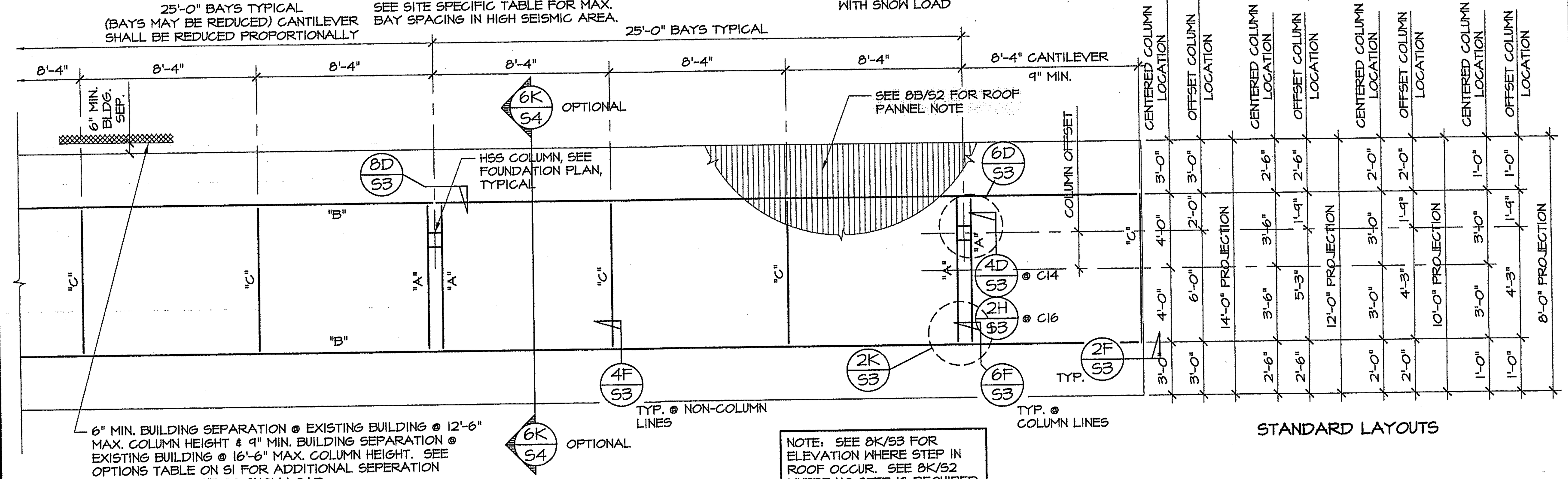
ROOF PITCH	LOAD	MINIMUM REQUIRED CANTILEVER LENGTHS @ 6'–0" CENTER SPAN (3)	MINIMUM REQUIRED CANTILEVER LENGTHS @ 7'–0" CENTER SPAN (3)	MINIMUM REQUIRED CANTILEVER LENGTHS @ 8'–0" CENTER SPAN (3 & 5)	SCREWS PER PANEL PER SUPPORT
2:12[2] MAX.	20psf LL/SL	NO CANTILEVER REQUIRED	1'-0" MIN.	0'-6" MIN.	(4)- #12-14x1" LONG W/ 1/2"Φ TWINSEAL WASHERS
	30psf SL		1'-8" MIN.	1'-8" MIN.	
4:12 MAX.	20psf LL/SL		1'-6" MIN.	1'-4" MIN.	(5)- #12-14x1" LONG W/ 1/2"Φ TWINSEAL WASHERS
	30psf SL	0'-8" MIN.	2'-0" MIN.	2'-0" MIN.	

1. SEE 8K/S1 FOR ROOF PANEL OPTIONS AND 6H/S3 FOR PROFILES & PROPERTIES.
2. 1/4 IN 12 MINIMUM.
3. WHEN NOT USING STANDARD LAYOUTS SHOW ON ROOF FRAMING PLAN BELOW, THE ROOF PANELS MUST MEET THE MINIMUM REQUIRED CANTILEVER LENGTHS.
4. LENGTHS OF CANTILEVERS MUST BE EQUAL EACH SIDE, TYPICAL.
5. MUST USE 24 GAGE ROOF PANEL OPTIONS @ 8'-0" CENTER SPAN LAYOUT OPTION.
6. MAXIMUM ALLOWABLE CANTILEVER AT 24 GAGE ROOF PANELS IS 3'-0". IN NO CASE SHALL THE ROOF PANEL LENGTH EXCEED THE 14'-0" MAXIMUM ROOF PROJECTION.

BEAM TABLE

PITCH	PROJECTION	LOADING	COLUMN OFFSET	CROSS BEAM "A"	SIDE BEAM "B"	BLOCKING & END CLOSURES "C"
1/4:12 MIN. 2:12 MAX.	≤ 12'-0"	20psf LL/SL	0'-0" TO 1'-9"	C14x2½x12 GAGE	C14x2½x12 GAGE	
		30psf SL	0'-0" TO 1'-9"	C14x2½x12 GAGE	C18x2½x12 GAGE	
	> 12'-0", ≤ 14'-0"	20psf LL/SL	0'-0" TO 1'-9"	C14x2½x12 GAGE	C18x2½x12 GAGE	20 GAGE CEE W/ 1½" OR 2" FLANGES, DEPTH TO MATCH SIDE BEAM DEPTH, SEE 2F & 4F/S3
			1'-10" TO 2'-0"	C16x3½x12 GAGE		
		30psf SL	0'-0" TO 0'-10"	C14x2½x12 GAGE	C18x2½x12 GAGE	
			0'-11" TO 1'-8"	C16x3½x12 GAGE		
			1'-9" TO 2'-0"	C16x3½x10 GAGE		
4:12 MAX.	≤ 12'-0"	20psf LL/SL	0'-0" TO 1'-9"	C14x2½x12 GAGE	C18x2½x12 GAGE	
		30psf SL	0'-0" TO 1'-9"	C14x2½x12 GAGE	C18x2½x12 GAGE	
	> 12'-0", ≤ 14'-0"	20psf LL/SL	0'-0" TO 1'-3"	C14x2½x12 GAGE	C18x2½x12 GAGE	
			1'-4" TO 2'-0"	C16x3½x12 GAGE		
			2'-0"	C16x3½x10 GAGE		
		30psf SL	0'-0" TO 0'-5"	C14x2½x12 GAGE	C18x2½x10 GAGE	
			0'-6" TO 1'-2"	C16x3½x12 GAGE		
			1'-3" TO 2'-0"	C16x3½x10 GAGE		

NO 3 PSF MISC. DEAD LOAD ALLOWED WITH SNOW LOAD



ROOF FRAMING PLANS   SCALE 1/4" = 1'-0"   8K

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121474 REVIEWED FOR SS ☑ FLS ☑ ACS ☑ CG ☐ DATE: 9/1/2023

PROJECT: SINGLE POST WALKWAY COVER
VALLEY SCHOOL SHELTERS

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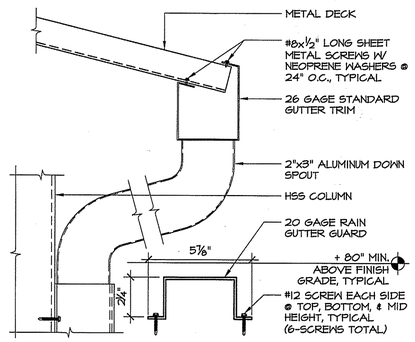
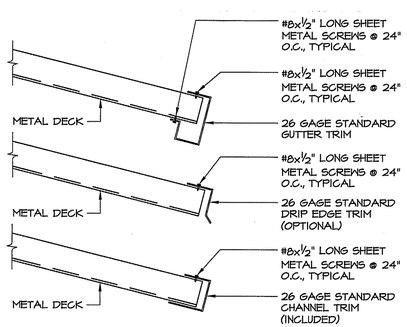
Email: ghomerse@gmail.com

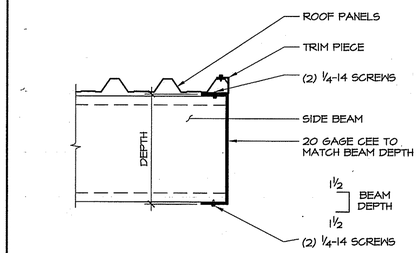
DWN BY: B.G.H.	CHKD BY: G.B.H.
DATE: 8/30/23	
PROJECT NO: 23020 24134	
DRAWING TITLE: ROOF FRAMING PLANS	
SHEET NUMBER: S2	OF 4 SHEETS



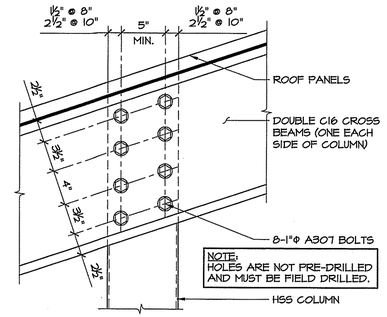
BOX GUTTER SCALE 3" = 1'-0" **2B**



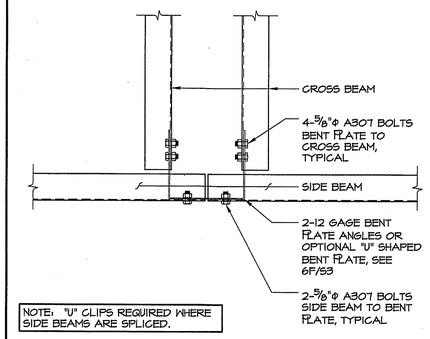
FASCIA OPTIONS SCALE 3" = 1'-0" **2D**



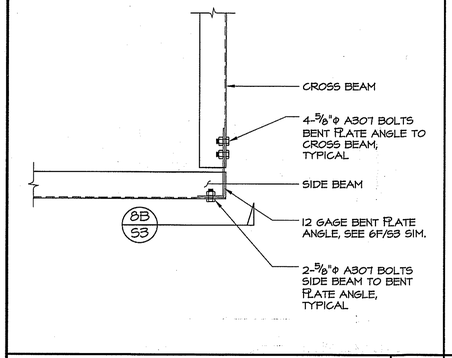
BEAM END SCALE 1½" = 1'-0" **2F**



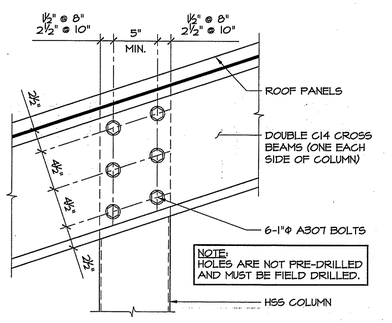
16" CROSS BEAM TO COLUMN SCALE 1½" = 1'-0" **2H**



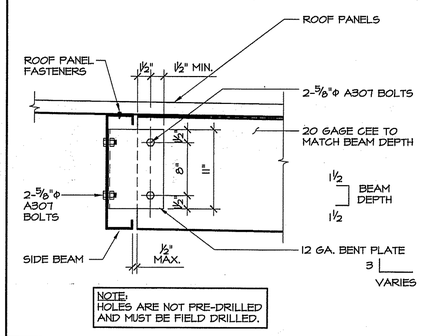
SIDE BEAMS TO CROSS BEAMS SCALE 1½" = 1'-0" **2K**



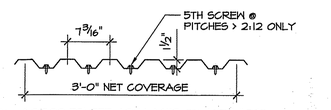
BEAM TO BEAM SCALE 1½" = 1'-0" **4B**



14" CROSS BEAM TO COLUMN SCALE 1½" = 1'-0" **4D**



BRACE TO BEAM SCALE 1½" = 1'-0" **4F**



Fy = 80,000 PSI PER ASTM A653 OR ASTM A792
Fy = 50,000 PSI @ 24 GAUGE PANELS ONLY

AEP SPAN HR-36 SECTION PROPERTIES

GAUGE	Wt. (lbs./ft.²)	I+ (in.⁴/ft.)	S+ (in.³/ft.)	I- (in.⁴/ft.)	S- (in.³/ft.)
24	1.2	0.1116	0.1234	0.1141	0.1156
26	0.98	0.0825	0.0845	0.0838	0.0839

McELROY MEGA-RIB SECTION PROPERTIES

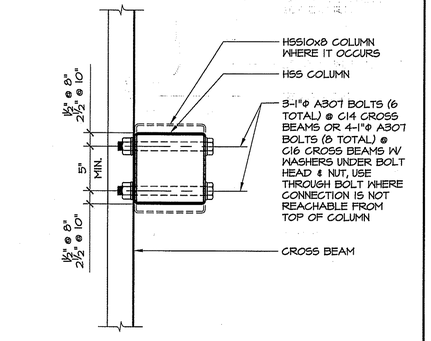
GAUGE	Wt. (lbs./ft.²)	I+ (in.⁴/ft.)	S+ (in.³/ft.)	I- (in.⁴/ft.)	S- (in.³/ft.)
24	1.22	0.1038	0.1228	0.1038	0.1228
26	0.98	0.0761	0.0841	0.0761	0.0841

SECTION PROPERTIES ARE EFFECTIVE SECTION PROPERTIES TYP.

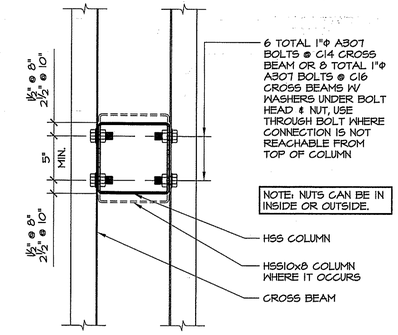
CEE SECTION PROPERTIES

SECTION DxB	GAGE	WEIGHT lb/ft.	Ae in.²	AXIS X-X Ix in.⁴	AXIS X-X Se in.³	AXIS Y-Y Iy in.⁴	AXIS Y-Y Sy in.³	L in.
C14x1½	20	2.05	0.117	7.093	0.742	0.068	0.05	-
C14x2½	12	7.14	1.14	53.354	7.622	1.414	0.715	0.916
C16x1½	20	2.29	0.1172	9.442	0.853	0.069	0.051	-
C16x3½	10	11.02	1.8	112.26	13.517	4.32	1.582	0.989
C18x2½	10	10.54	1.619	118.0	12.233	1.84	0.897	0.916
C18x1½	20	2.54	0.1174	12.261	0.964	0.07	0.051	-
C18x2½	12	8.57	1.149	100.08	9.8	1.49	0.725	0.916

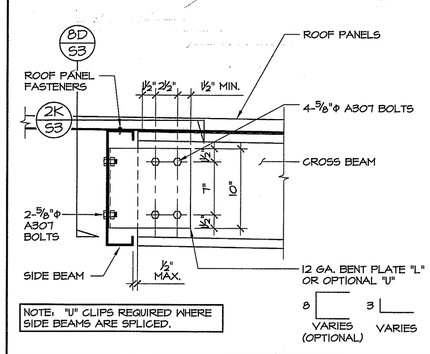
MATERIAL PROPERTIES SCHEDULES **6H**



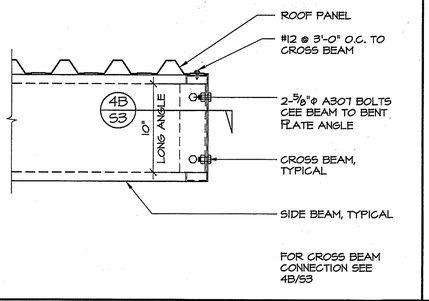
BEAM TO COLUMN SCALE 1½" = 1'-0" **6B**



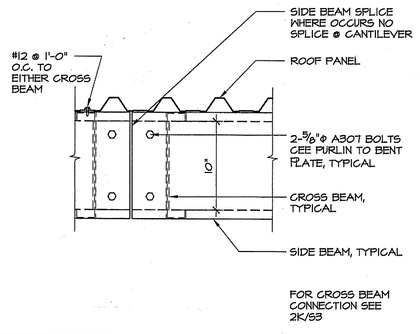
BEAM TO COLUMN SCALE 1½" = 1'-0" **6D**



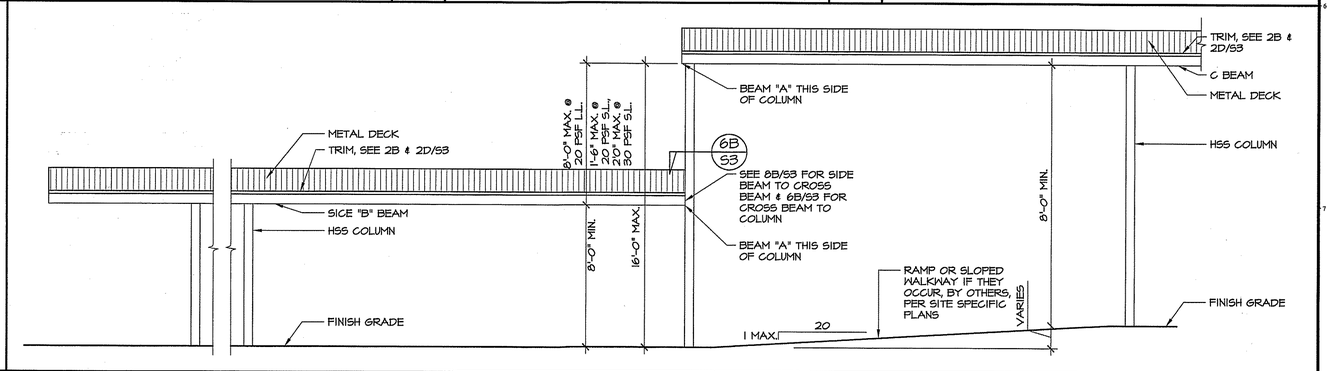
BEAM TO BEAM SCALE 1½" = 1'-0" **6F**



BEAM TO BEAM SCALE 1½" = 1'-0" **8B**



SIDE BEAM SPLICE SCALE 1½" = 1'-0" **8D**



ELEVATION SCALE ¼" = 1'-0" **8K**

BID SET
2025-03-11

PROJECT:
SINGLE POST WALKWAY COVER
VALLEY SCHOOL SHELTERS

REVISIONS

NO.	DATE	BY	DESCRIPTION

REGISTERED PROFESSIONAL ENGINEER GERARD HOMER EXP. 3-31-24 S23737 STRUCTURAL STATE OF CALIFORNIA

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123474 PC
REVIEWED BY:
SS ☐ FLS ☑ ACS ☑ VCS ☐
DEPARTMENT OF GENERAL SERVICES
DATE: 9/1/2023

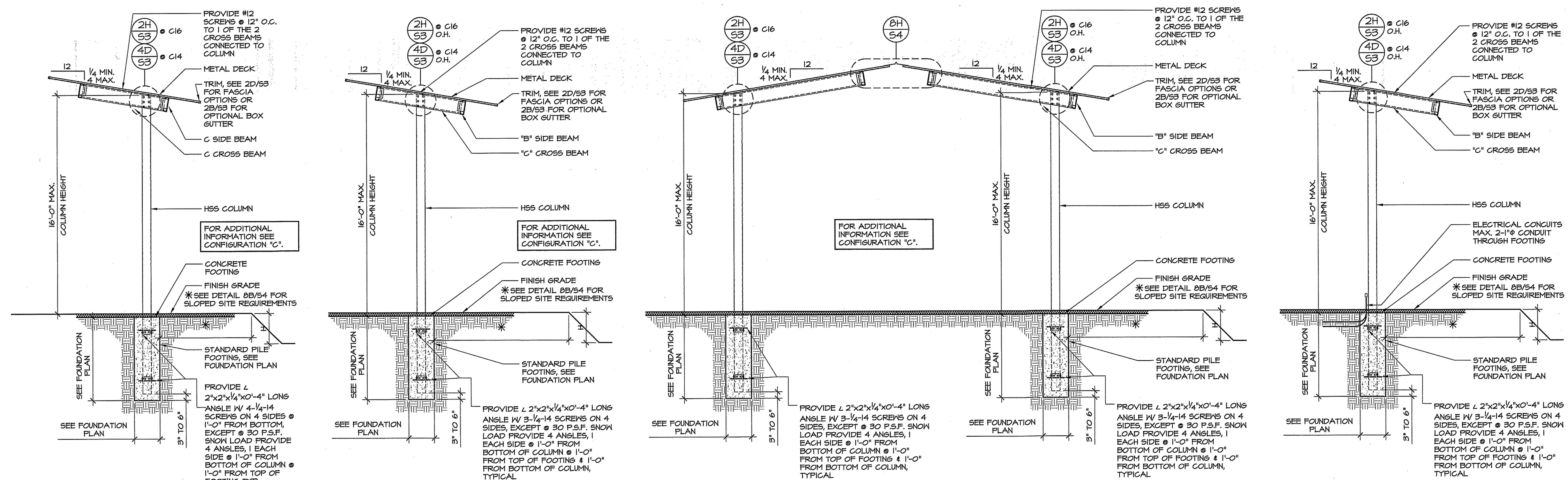
16765 SYPERT SCHOOL RD.
HOLLAND, TX. 76534
Gerard Homer and Associates
STRUCTURAL ENGINEERS
PH.: (559) 734-6675
Email: ghomerss@gmail.com

DWN BY: B.G.H.	CHKD BY: G.B.H.
DATE: 8/30/23	
PROJECT NO: 23020	

DRAWING TITLE
SECTION
TYPICAL ELEVATION
DETAILS

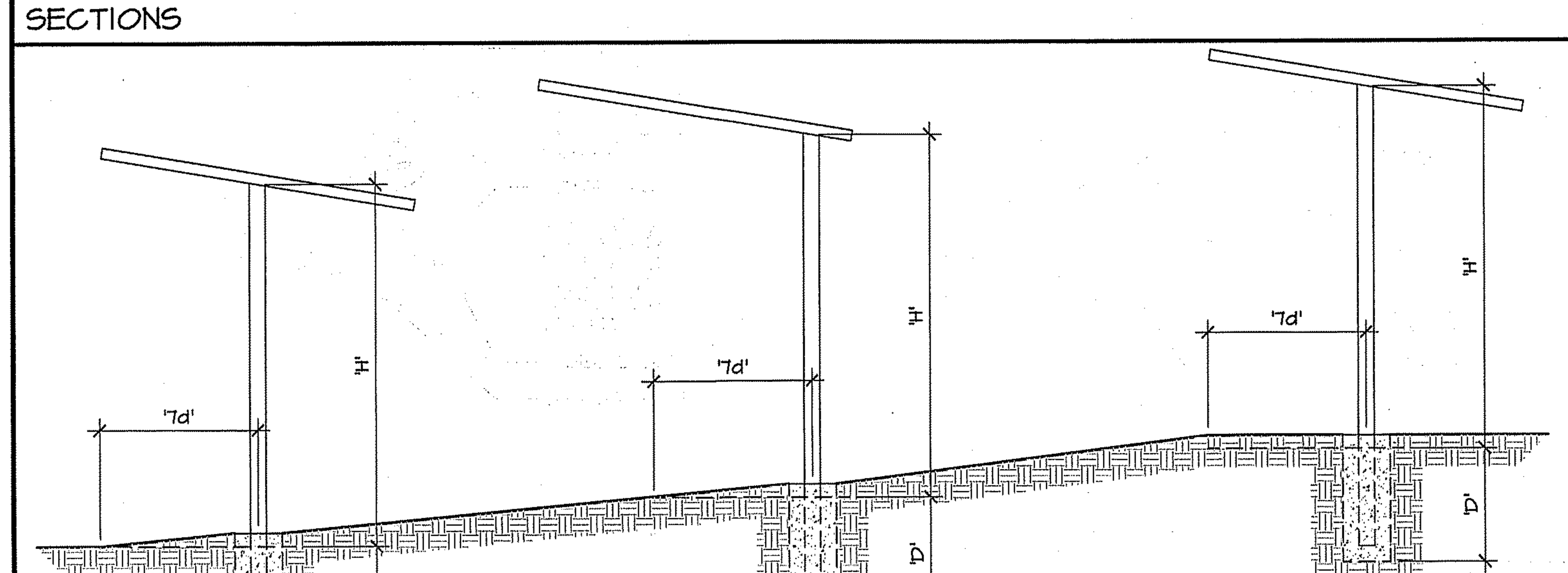
SHEET NUMBER
S3
OF 4 SHEETS

BID SET
2025-03-11



SECTIONS

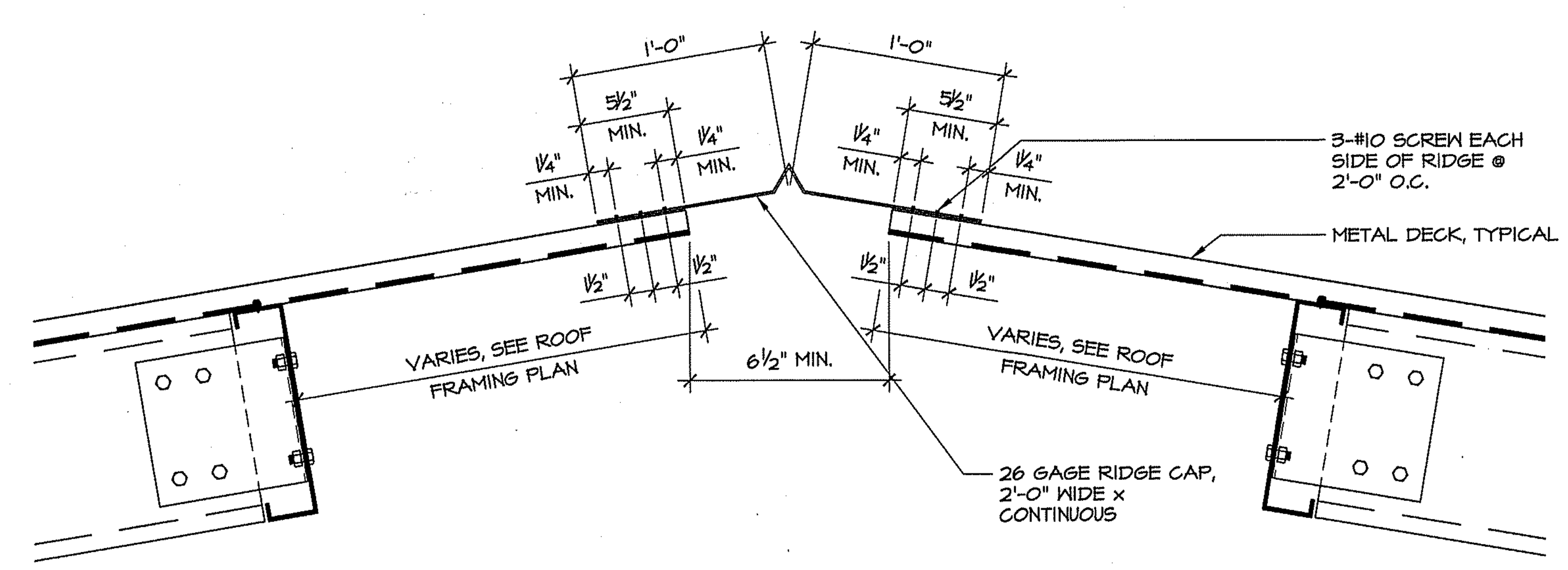
SCALE 1/4" = 1'-0" 6K



THE PIER DEPTH SHALL BE INCREASED SUCH THAT THE DEPTH REQUIRED BY ANALYSIS (i.e., "D" DESIGNATED IN FIGURE ABOVE) IS PROVIDED BELOW A HORIZONTAL PLANE FROM A HORIZONTAL DISTANCE SEVEN TIMES THE PIER DIAMETER (i.e., "7d" DESIGNATED IN FIGURE ABOVE). ADDITIONALLY, DESIGN PARAMETERS DEPENDENT ON COLUMN HEIGHT SHALL BE DETERMINED BASED ON A THEORETICAL COLUMN HEIGHT STARTING FROM THE SAME HORIZONTAL PLANE (i.e., "H" DESIGNATED IN FIGURE ABOVE). INSTALLATION OF A STRUCTURE UNDER SUCH CONDITIONS SHALL NOT BE SUBMITTED AS AN OVER-THE-COUNTER SUBMITTAL. IF THE SETBACK LIMITS ARE SMALLER THAN THE CBC REQUIRES, A SITE-SPECIFIC GEOTECHNICAL REPORT IS REQUIRED.

SLOPED SITE FIGURE

SCALE 1/4" = 1'-0" 8D



RIDGE CAP

SCALE 1 1/2" = 1'-0" 8H

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

8K

REVISIONS			
NO.	DATE	BY	DESCRIPTION

REGISTERED PROFESSIONAL ENGINEER GERARD HOMER EXP. 3-31-24 S2373 STRUCTURAL STATE OF CALIFORNIA

PROJECT: SINGLE POST WALKWAY COVER
VALLEY SCHOOL SHELTERS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121474 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ DCG
DATE: 9/1/2023

Gerard Homer and Associates
STRUCTURAL ENGINEERS
16765 SYPERT SCHOOL RD. HOLLAND, TX. 76534
PH.: (559) 734-6675
Email: ghomerse@gmail.com

DWN BY: B.G.H.
CHKD BY: G.B.H.
DATE: 8/30/23
PROJECT NO: 23020 Z4184
DRAWING TITLE
SECTION
TYPICAL ELEVATION
DETAILS

SHEET NUMBER
S4
OF 4 SHEETS