

Abbreviations:	
A	And
@	Angle
C	Centerline
DEGREE	Degree
PERPENDICULAR	Perpendicular
PROPERTY LINE	Property Line
A.F.F.	Above Finish Floor
ACOUST.	Acoustical
ADJ.	Adjacent
AGGR.	Aggregate
A.B.	Aggregate Base
ALUM./AL.	Aluminum
AD	Area Drain
A.V.	Audio Visual
AUTO.	Automatic
BM	Beam
BLK	Block
BLKG.	Blocking
BO.	Board
BOT	Bottom
BUILDG.	Building
CAB.	Cabinet
CATV	Cable T.V.
C.I.	Cast Iron
CL.	Catch Basin
CLKG.	Caulking
CNTR./CTR.	Center
CER.	Ceramic
CH.	Chain Link
CB	Chalkboard
CLASSR.	Classroom
CLR.	Clear
C.W.	Cold Water
COL.	Column
CONC.	Concrete
C.M.U.	Concrete Masonry Unit
CONN.	Connection
CONSTR.	Construction
C.J.	Construction Joint
CONT.	Continuous
CNTR.	Contractor
CORR.	Corrosion
C.M.P.	Corrugated Metal Pipe
C.Y.	Cubic Yard
CUST.	Custodian
D.	Deep/Depth
DET / DTL	Detail
DIMS	Dimension
DIA / Ø	Diameter
DIM	Dimension
DIM PT.	Dimension Point
DIS.	Disable Accessible
DW.	Dishwasher
DR.	Door
DBL.	Double
DN.	Down
DN.	Down
D.O.	Drain Outlet
DWG.	Drawing
D.F.	Drinking Fountain
E.A.	Each
E.	East
E.W.C.	Electric Water Cooler
E.W.H.	Electric Water Heater
EL./ELEV.	Elevation
EMER.	Emergency
ENCL.	Enclosure
EQ.	Equal
E.F.	Exhaust Fan
(E)EXIST.	Existing
EXP.	Expansion
E.J.	Expansion Joint
EXT.	Exterior
F.O.C.	Face of Concrete/Curb
F.O.F.	Face of Finish
F.O.S.	Face of Studs
FB.	Fiberglass
F.R.L.	Fiberglass Reinforced Laminate
F.R.P.	Fiberglass Reinforced Plastic
F.V.	Field Ventry
F.N.	Finish
F.F.E.	Finish Floor Elevation
F.G.	Finish Grade
F.A.	Fire Alarm
F.E.C.	Fire Extinguisher
FLASH.	Fire Extinguisher Cabinet
F.H.M.B.	Flat Head Machine Bolt
F.H.M.S.	Flat Head Machine Screw
F.H.W.S.	Flat Head Wood Screw
FL.FLR.	Floor
F.D.	Floor Drain
FT.	Foot/feet
FTG.	Footing
FND.	Foundation
FURR.	Furring
GALV.	Galvanized
G.I.	Galvanized Iron
G.S.M.	Galvanized Sheet Metal
G.W.H.	Gas Water Heater
GA.	Gauge
GLU./LAM./G.L.B.	Glu Laminated (Beam)
G.B.	Grab Bar
GR.	Grade
GYP.	Gypsum
GYP.BD.	Gypsum Wallboard
SECT.	Section
S.S.K.	Service Sink
SHT.	Sheet
HWDR.	Hardwood
HWDD.	Hardwood
HDR.	Header
HVAC	Heating/Ventilating
HGT.	Height
AIR CONDIT.	Air Conditioning
H.M.	Hollow Metal
HORIZ.	Horizontal
H.B.	Hose Bib
H.R.	Hour (Fire Rating)
IN.	Inch
INFO.	Information
I.D.	Inside Diameter
INSUL.	Insulation
INT.	Interior
INV.	Invert
JAN.	Janitor
JOIST	Joist
JST.	Joist
TB.	Tackboard
TEL./TELE.	Telephone
T.V.	Television
T.CLR.	Tempered
T.C.L.T.	Tempered Low Transmission
THK.	Thick
THRES.	Threshold
L.F.	Through
T/TLT.	Toilet
T&G.	Tongue & Groove
T.O.	Top
T.O.C.	Top of Curb
T.O.P.	Top of Pavement
T.O.W.	Top of Wall/Top of Walk
T.S.	Tube Steel
TYP.	Typical
U.O.N.	Unless Otherwise Noted
VERT.	Vertical
V.G.D.F.	Vertical Grain Douglas Fir
V.M.C.	Vinyl Wall Covering
W.C.	Wainscot
NOM.	Normal
N.	North
WT.	Weight
N.I.C.	Not in Contract
N.T.S.	Not to Scale
W.W.M.	Wet/Wash
W.	Window
WDW.	Window
W.G.	Wire Glass
W.	Wire
W/O.	Without
WB.	Wood
O.C.	On Center
OPP.	Opposite
O.H.	Opposite Hand
O.D.	Outside Diameter
O.H.W.S.	Oval Head Wood Screw
O.	Over
OA.	Overall
P.D.F.	Power Driven Fastener
PT.	Part
PR.	Pair
PTN./PART.	Partition
PEN.	Penetration
PERF.	Perforated
P.LAM.	Plastic Laminate
PL.	Plate
P.V.	Plumbing Vent
PLYWD.	Plywood
PL.	Point
PRE-FAB.	Prefabricated
P.M.F.	Pressed Metal Frame
P.T./P.T.D.F.	Pressure Treated Douglas Fir
R.W.L.	Rain Water Leader
RDWD.	Redwood
REF.	Refrigerator
REINF.	Reinforced
REQD.	Required
RET.	Return
R.D.	Roof Drain
RM.	Room
R.O.G.	Rough Opening
R.H.W.S.	Round Head Wood Screw
R.B.	Rubber Base
S.S.	Sheet Metal Screw
S.M.	Sheet Metal
S.M.S.	Sheet Metal Screw
S.V.	Sheet Vinyl
SHR./SHWR.	Shower
S.	Solid Core
S.C.	South
SPC.	Specification
SQ.	Square
SST./S.S.	Stainless Steel
STD./STND.	Standard
STL.	Steel
STOR.	Storage
STR.	Storm Drain
S.F.	Self-Drilling Self-Tapping
S.F.	Square Feet
STRUC.	Structural
SUSP.	Suspended
SYM.	Symbol

Symbol Legend:	
SHEET NUMBERING SYSTEM	STRUCTURAL GRID IDENTIFIER (center of framing)
Discipline Designation Drawing Type Designation Sheet Sequence Beyond Zero Building Unit Designation	Grid Designation Building Unit Designation
ROOM NAME AND NUMBERING REFERENCE	STRUCTURAL GRID IDENTIFIER (face of framing, concrete or CMU)
Room Number Building Designation	Grid Designation Building Unit Designation
KEYNOTE REFERENCE (All items indicated with a keynote are new)	CENTERLINE
3.025	
SHEET NOTE REFERENCE	WORK POINT CONTROL
SN.01	
DEMOLITION NOTE REFERENCE	REVISION
DN.01	Revision Number
DETAIL REFERENCE	RADIUS
Detail Number Sheet Number	Radius Point Number Radius Dimension
BUILDING SECTION REFERENCE	EXTERIOR ELEVATION REFERENCE
Section Number Sheet Number	Elevation Number Sheet Number
WALL SECTION REFERENCE	SPECIAL ELEVATION REFERENCE
Section Number Sheet Number	

Sheet Index	
GENERAL	COVER SHEET
A0.1	TYPICAL MOUNTING HEIGHTS AND DETAILS
A0.2	LOCAL FIRE AUTHORITY SITE PLAN
CIVIL	CIVIL GENERAL NOTES AND ABBREVIATIONS
C0.1	DEMOLITION PLAN
C1.1	GRADING AND PAVING PLAN
C2.1	
ARCHITECTURAL	
A1.1.0	SITE PLAN AND CODE INFORMATION
A1.1.1	PARTIAL SITE PLANS AND DETAILS
A2.1.1	TOILET ROOM DEMOLITION AND IMPROVEMENT PLANS AND INTERIOR ELEVATIONS
ELECTRICAL	
EO.1	SYMBOLS, NOTES
E1.1	SITE PLAN - ELECTRICAL
E2.1	ONE LINE DIAGRAM
E3.1	DETAILS
TOTAL SHEET COUNT:	13

Vicinity Map:	

SHADE STRUCTURE AT JOHN BIDWELL ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT SACRAMENTO, CA

Architect:
Rainforth Grau Architects
 2101 Capitol Avenue, Suite 100
 Sacramento, CA 95816
 916.368.7990

Owner:
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 5737 47TH AVENUE
 SACRAMENTO, CA 95824
 916.643.7400

Contact: VIPUL SAFI

Consultants:

CIVIL ENGINEER:
WARREN CONSULTING ENGINEERS
 1117 WINDFIELD WAY, SUITE 110
 EL DORADO HILLS, CA 95762
 916.985.1870
 ATTN: ANTHONY TASSANO

ELECTRICAL ENGINEER:
PETERS ENGINEERING
 7750 COLLEGE TOWN DRIVE, SUITE 101
 SACRAMENTO, CA 95826
 916.447.2841
 ATTN: GINO ROMANO

Contact: MIKE TAXARA

Project Information:

SITE LOCATION
 1730 65th Avenue
 Sacramento, CA 95822

Project Scope:

INSTALLATION OF (1) 30' X 64' PC SHADE STRUCTURE AND RELATED CONCRETE PAD, UPGRADES TO ACCESSIBLE PATH OF TRAVEL, PARKING AND RESTROOMS, RELATED SITE AND ELECTRICAL WORK.

SCHEDULE OF ALTERNATES:

ALTERNATE NO. 1: CRACK REPAIR, SEAL COAT AND RESTRIPIPING
 A. The contractor is responsible for determining the extent of crack repair at (e) hardout. Place 2 coats of seal coat on existing paving. Seal coat to be provided over entirety of (e) hardout. The contractor is responsible for verifying (e) stripping condition and verifying exact layout to be restriped with District.

FIRE SAFETY: THE CONTRACTOR SHALL COMPLY WITH CFC CH 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.

Symbol Legend:	
SHEET NUMBERING SYSTEM	STRUCTURAL GRID IDENTIFIER (center of framing)
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TOTAL SHEET COUNT:	13

Vicinity Map:	

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Vicinity Map:	

Applicable Codes:

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS:

TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL, REGULATIONS
 TITLE 24, CCR, PART 1, 2019 CALIFORNIA ADMINISTRATIVE CODE
 TITLE 24, CCR, PART 2, 2019 CALIFORNIA BUILDING CODE, VOL. 1 & 2
 TITLE 24, CCR, PART 3, 2019 CALIFORNIA ELECTRICAL CODE
 TITLE 24, CCR, PART 4, 2019 CALIFORNIA MECHANICAL CODE
 TITLE 24, CCR, PART 5, 2019 CALIFORNIA PLUMBING CODE
 TITLE 24, CCR, PART 6, 2019 CALIFORNIA ENERGY CODE
 TITLE 24, CCR, PART 9, 2019 CALIFORNIA FIRE CODE
 TITLE 24, CCR, PART 10, 2019 CALIFORNIA EXISTING BUILDING CODE
 TITLE 24, CCR, PART 11, 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
 TITLE 24, CCR, PART 12, 2019 CALIFORNIA REFERENCED STANDARDS CODE

NFPA 13, 2016 EDITION, INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDMENTS)
 NFPA 72, 2016 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDMENTS)

UL 464, 2003 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES

UL 521, 7TH EDITION, 1999 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS

THE CONTRACTOR SHALL KEEP TITLE 24, CCR, PARTS 1-5 ON THE BUILDING SITE AT ALL TIMES.

DSA Procedures:

- ADDENDA MUST BE STAMPED AND SIGNED BY THE ARCHITECT OF RECORD AND APPROVED BY DSA IN ACCORDANCE WITH CCR TITLE 24, PART 1.
- THE CONTRACTOR SHALL BE FAMILIAR WITH, AND PERFORM THE DUTIES IN ACCORDANCE WITH DSA PROCEDURE 13-01, CONSTRUCTION OVERSIGHT PROCESS.
- CHANGES TO THE STRUCTURAL, ACCESSIBILITY, OR FIRE AND LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN LET SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT AS REQUIRED IN TITLE 24, PART 1, 4-338 AND CONSTRUCTION CHANGE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN ACCORDANCE WITH DSA IR A-6.
- SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS WILL BE CONSIDERED AS CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS. THEY ARE TO BE TREATED AS CONSTRUCTION CHANGE DOCUMENTS AND WILL REQUIRE DSA'S APPROVAL PRIOR TO FABRICATION AND INSTALLATION IN ACCORDANCE WITH TITLE 24, PART 1, 4-338 AND DSA IR A-6.
- THE CLASS 2 PROJECT INSPECTOR MUST BE EMPLOYED BY THE OWNER AND APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND DSA IN ACCORDANCE WITH TITLE 24, PART 1, 4-341.
- SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBD IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, A CHANGE CONSTRUCTION DOCUMENT OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.
- FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATED SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

Deferred Approval:

- PC SHADE STRUCTURE

Statement of General Conformance

THE FOLLOWING DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

- DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
- 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 SECTIONS 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: DATE: 3/29/22

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE
 Jeffrey Grau
 PRINT NAME
 C-14648 05/31/23
 LICENSE NUMBER EXPIRATION DATE

LIST COMPLETELY, ITEMS REVIEWED AND ACCEPTED:
 CIVIL, ELECTRICAL

Deferred Approval:

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IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT

APP: 02-119979 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 03/30/2022

A studio of

 HMC Architects

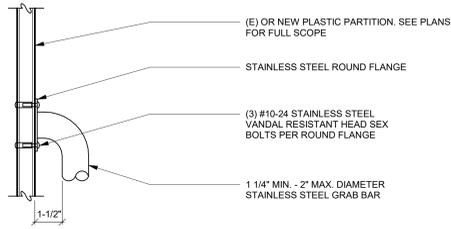
JEFFREY GRAU
 ARCHITECT
 STATE OF CALIFORNIA

SHADE STRUCTURE AT JOHN BIDWELL ELEMENTARY SCHOOL

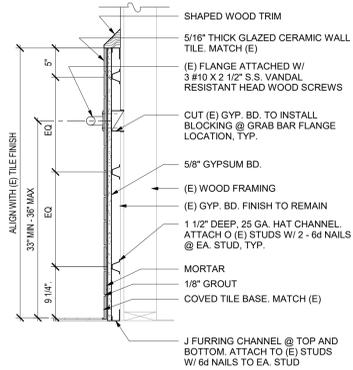
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

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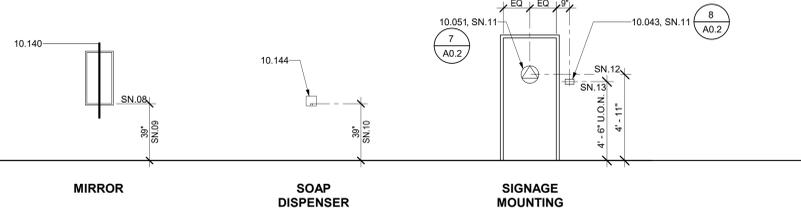


10 TYPICAL GRAB BAR AT PARTITIONS
3" = 1'-0"



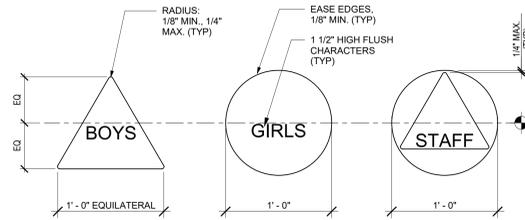
11 WALL FURRING DETAIL
1" = 1'-0"

FIXTURE AND ACCESSORY HEIGHTS



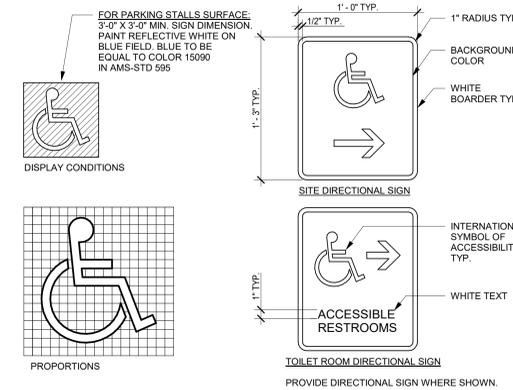
FURNITURE EQUIPMENT HEIGHTS

6 TYPICAL MOUNTING HEIGHTS AND DETAILS
1/4" = 1'-0"

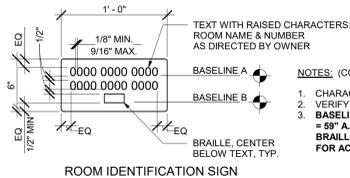
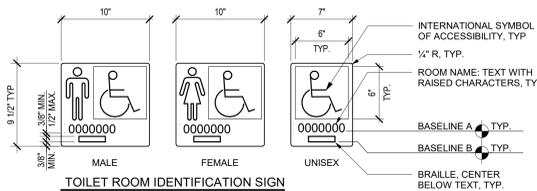


NOTE:
1. TEXT ON DOOR SYMBOL TO BE AS INDICATED ON DRAWINGS

7 TOILET ROOM DOOR SYMBOLS
1 1/2" = 1'-0"

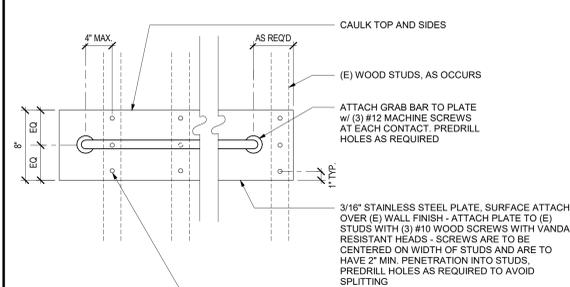


3 SYMBOL OF ACCESSIBILITY
NOT TO SCALE



NOTES: (COMPLY W/ CBC 11B-703)
1. CHARACTERS TO BE 1" HIGH.
2. VERIFY ROOM NAME BEFORE FABRICATION.
3. BASELINE A (BOT. OF HIGHEST LEVEL OF TEXT) = 89" A.F.F. MAX., BASELINE B (LOWEST LINE OF BRAILLE) = 49" A.F.F. MIN. (REFER TO 14/A0.2 FOR ACTUAL HEIGHT AND LOCATION).

8 IDENTIFICATION SIGNS
1 1/2" = 1'-0"



NOTES:
- EASE ALL EXPOSED STAINLESS STEEL EDGES
- (E) FINISH THICKNESS = 1" MAX.

4 GRAB BAR - STAINLESS STEEL PLATE
1 1/2" = 1'-0"

GENERAL NOTES

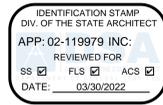
1. TYPICAL MOUNTING HEIGHTS AND DETAILS APPLY TO ENTIRE PROJECT, WHETHER REFERENCED OR NOT, UNLESS OTHERWISE NOTED.
2. ALL DISABLED ACCESSIBLE DIMENSIONS, ARE MAXIMUM DIMENSIONS UNLESS OTHERWISE NOTED.
3. HEIGHTS ARE MEASURED FROM FINISH FLOOR, UNLESS OTHERWISE NOTED.

SHEET NOTES

- SN.01 TO FACE OF FINISH
SN.02 FACE OF OBJECTS OR WALLS
SN.03 TOP OF GRAB BAR
SN.04 TOP OF SEAT
SN.05 AT ACCESSIBLE WATER CLOSETS, FLUSH CONTROL HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET ENCLOSURE
SN.06 MINIMUM KNEE CLEARANCE
SN.07 MINIMUM APRON CLEARANCE
SN.08 BOTTOM EDGE OF REFLECTIVE SURFACE
SN.09 34" MAX. IF MIRROR IS NOT MOUNTED OVER A LAV. OR COUNTER; TOP OF MIRROR 74" MIN. FOR HIGH SCHOOL & ADULTS.
SN.10 TO CENTERLINE CONTROL.
SN.11 PROVIDE AT ALL TOILET ROOM DOORS
SN.12 CENTERLINE OF SYMBOL
SN.13 CENTERLINE OF SIGN.
SN.14 FRONT EDGE OF WATER CLOSET.

KEYNOTES

- 10.043 SIGNAGE: TOILET ROOM IDENTIFICATION
10.051 SIGNAGE: TOILET ROOM DOOR SYMBOL
10.122 TOILET ACCESSORY: GRAB BAR
10.140 TOILET ACCESSORY: MIRROR
10.144 TOILET ACCESSORY: SOAP DISPENSER
22.040 WATER CLOSET



SHADE STRUCTURE AT JOHN BIDWELL
ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

TYPICAL MOUNTING HEIGHTS AND DETAILS

PROJECT NO. 21-1504.02
DATE: 3/1/22
SHEET **A0.2**

DSA-810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

PROJECT INFORMATION
 School District: SACRAMENTO UNIFIED SCHOOL DISTRICT
 Project name / school: ALICE BIRNEY K-8 SHADE STRUCTURE
 Project address: 6251 13TH STREET, SACRAMENTO, CA 95831

FIRE & LIFE SAFETY INFORMATION

	ALTERNATE ACCEPTED	
	Yes	No
1. Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data)	<input type="checkbox"/>	<input type="checkbox"/>
2. Was the fire hydrant water flow test performed as part of this LFA review?	<input type="checkbox"/>	<input type="checkbox"/>
3. Is the project located within a designated fire hazard severity zone as established by Cal-Fire? (If yes, indicate fire hazard zone classification below)	<input type="checkbox"/>	<input type="checkbox"/>
Refer to the following for fire hazard zone locations: www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps Moderate <input type="checkbox"/> High <input type="checkbox"/> Very High <input type="checkbox"/> Wildland Interface Area (WIFA) <input type="checkbox"/> WIFA <input type="checkbox"/> (If any designations are checked, project design must meet the requirements of CBC Chapter 7A)		

CONDITION MEANS AND METHODS RESOLUTION

	ALTERNATE ACCEPTED			
	Yes	No	N/A	NIR
4. Emergency vehicle access roadways do not meet CFC requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4a. Acceptable Alternative: Emergency vehicle and personal access as proposed by the architect is acceptable for providing fire suppression and protection of life and property	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Fire Hydrants: Number and spacing does not meet CFC requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5a. Acceptable Alternative: Number of fire hydrants and spacing as proposed by the architect is acceptable for fire suppression and protection of life and property.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Fire Hydrants: Water flow and pressure are less than CFC minimum.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6a. Acceptable Alternative: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Location of fire department connection(s) serving fire sprinkler system or standpipe system does not meet CFC requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7a. Acceptable Alternative: 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.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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 of 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: _____
 LFA Review Official: _____
 Title: _____ Work Phone: _____
 Work Email: _____
 LFA Reviewer's Signature: _____ Date: _____

LEGEND

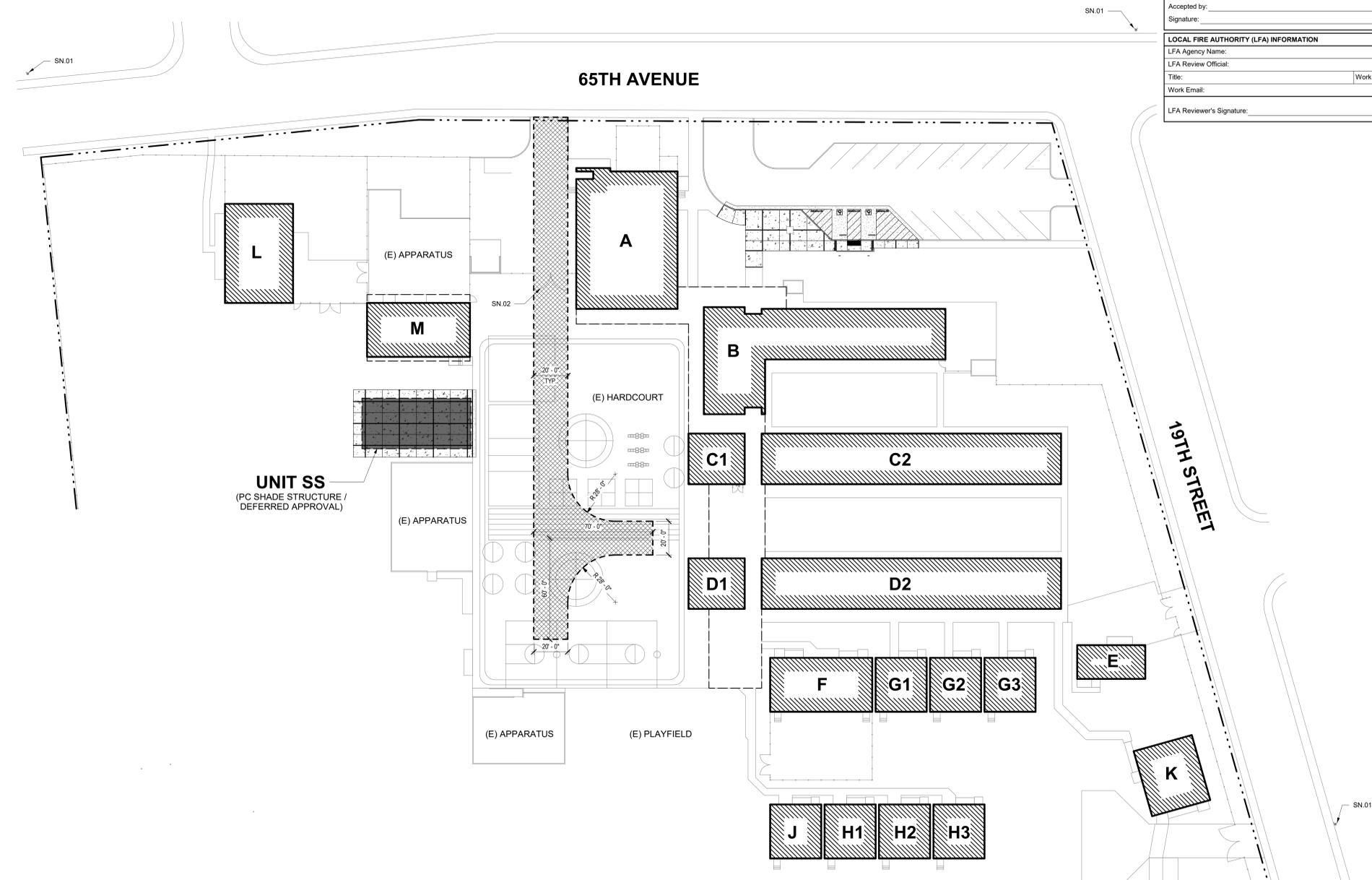
- - - - - PROPERTY LINE
- [X] UNIT DESIGNATION SHADE STRUCTURE
- [X] UNIT DESIGNATION EXISTING BUILDINGS
- [X] CONCRETE WALK / PAVING
- [X] ASPHALT CONCRETE PAVING
- [X] (E) EMERGENCY ACCESS LANE
- [X] (E) CHAIN LINK FENCE
- [X] (E) FIRE HYDRANT (NTS)

SHEET NOTES

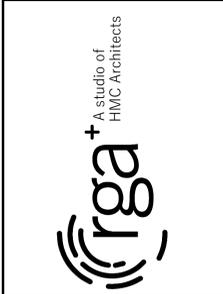
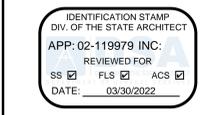
- SN.01 (E) FIRE HYDRANT
- SN.02 (E) FR-10'-0" WIDE GATES WITH KNOX LOCK BOX

BUILDING DESIGNATIONS

- UNIT A - MULTIPURPOSE
- UNIT B - ADMINISTRATION
- UNITS - CLASSROOMS AND TOILET ROOMS
- UNITS - CLASSROOMS AND TOILET ROOMS
- UNIT E - STORAGE
- UNIT F - CLASSROOM
- UNITS - CLASSROOMS G1-G3
- UNITS - CLASSROOMS H1-H3
- UNIT J - CLASSROOM
- UNIT K - CLASSROOM
- UNIT L - CLASSROOM
- UNIT M - CLASSROOM



1 LOCAL FIRE AUTHORITY SITE PLAN
 1" = 30'-0"



SHADE STRUCTURE AT JOHN BIDWELL ELEMENTARY SCHOOL
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

Revision

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LOCAL FIRE AUTHORITY SITE PLAN

SEE OTHER SHEETS FOR CONSTRUCTION

THIS PLAN INCLUDES INFORMATION FOR LOCAL FIRE AUTHORITY APPROVAL ONLY. REFER TO OTHER SHEETS FOR SITE CONSTRUCTION DETAILS.

PROJECT NO. 21-1504.02
 DATE: 3/1/22
 SHEET **A0.7**

EXISTING TOPOGRAPHY

- = PROPERTY LINE
- - - = CENTERLINE
- - - = EASEMENT
- ⊙ = PROPERTY CORNER FOUND AS NOTED
- ⊙ = PROPERTY CORNER NOTHING FOUND OR SET
- △123 = TEMPORARY BENCHMARK (SEE TBM LIST FOR INFO)
- = SWALE OR DRAINAGE FLOW
- = DRAINAGE FLOW
- = FENCE (TYPE NOTED)
- = TREE (SIZE/TYPE INDICATED)
- = SLOPE
- 100 = CONTOUR
- = CONCRETE SURFACE
- = EDGE OF ASPHALT
- = EDGE OF BUILDING
- = SIGN
- = POST OR BOLLARD
- 99.99 = GROUND ELEVATION
- 99.99 = HARD SURFACE ELEVATION

EXISTING UTILITIES

- 12"SD = STORM DRAIN LINE (SIZE & DIRECTION OF FLOW)
- 12"SD = STORM DRAIN LINE (RECORD INFORMATION)
- 12"SD = STORM DRAIN LINE (UNDERGROUND LOCATING)
- ⊙ = STORM DRAIN MANHOLE
- = STORM DRAIN CLEANOUT
- = DROP INLET
- = AREA DRAIN
- = RAIN WATER LEADER
- DS = DOWNSPOUT
- 12"SS = SANITARY SEWER LINE (SIZE & DIRECTION OF FLOW)
- 12"SS = SANITARY SEWER LINE (RECORD INFORMATION)
- 12"SS = SANITARY SEWER LINE (UNDERGROUND LOCATING)
- ⊙ = SANITARY SEWER MANHOLE
- = SANITARY SEWER CLEANOUT
- W— = WATER LINE (SIZE INDICATED)
- W— = WATER LINE (RECORD INFORMATION)
- W— = WATER LINE (UNDERGROUND LOCATING)
- ⊙ = WATER MANHOLE
- = WATER VALVE
- ⊙ = WATER METER
- ⊙ = WATER BOX
- = IRRIGATION CONTROL VALVE
- ⊙ = FIRE HYDRANT
- OH—E— = OVERHEAD ELECTRIC LINE
- E— = UNDERGROUND ELECTRIC LINE
- E— = UNDERGROUND ELECTRIC LINE (RECORD INFORMATION)
- E— = UNDERGROUND ELECTRIC LINE (UNDERGROUND LOCATING)
- ⊙ = ELECTRIC MANHOLE
- = UTILITY POLE (WITH GUY WIRE)
- ⊙ = ELECTRIC METER
- ⊙ = ELECTRIC BOX
- ⊙ = STREET LIGHTING BOX
- ⊙ OR ⊙ = LIGHT STANDARD
- ⊙ = SIGNAL LIGHT
- ⊙ = FLOOD LIGHT
- ⊙ = ELECTRICAL OUTLET
- G— = GAS LINE (SIZE INDICATED)
- G— = GAS LINE (RECORD INFORMATION)
- G— = GAS LINE (UNDERGROUND LOCATING)
- ⊙ = GAS MANHOLE
- ⊙ = GAS VALVE
- ⊙ = GAS METER
- T— = TELEPHONE LINE
- T— = TELEPHONE LINE (RECORD INFORMATION)
- T— = TELEPHONE LINE (UNDERGROUND LOCATING)
- ⊙ = STORM DRAIN BOX
- ⊙ = TRAFFIC SIGNAL BOX

TBM LIST

NUMBER	DESCRIPTION	NORTHING	EASTING	FLEV
1	CPS CHISELED "+"	10498.58	9946.74	16.08
2	CPF BM EL=16.363	10744.01	10246.87	16.36
3	CPS CHISELED "+"	10598.95	10067.79	17.13
4	CPS CHISELED "+"	10534.56	10116.70	17.21
5	CPS CHISELED "+"	10479.18	10128.93	17.15
6	CPS CHISELED "+"	10402.50	10135.08	17.28
7	CPS CHISELED "+"	10331.94	10167.78	17.10
8	CPS CHISELED "+"	10348.64	10011.89	17.52
9	CPS CHISELED "+"	10527.76	9867.74	15.80
10	CPS CHISELED "+"	10551.34	9624.36	13.18
11	CPS CHISELED "+"	10663.82	9975.35	17.18
12	CPS CHISELED "+"	10592.96	10378.02	17.91
13	CPS CHISELED "+"	10574.46	10295.59	17.18
14	CPS CHISELED "+"	10559.85	10230.78	17.18
15	CPS CHISELED "+"	10464.93	10321.45	17.13
16	CPS CHISELED "+"	10457.04	10447.83	18.74
17	CPS CHISELED "+"	10756.37	10050.32	14.67

CIVIL ABBREVIATIONS AND LEGEND

- ABBREVIATIONS**
- NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.
- AB AGGREGATE BASE
 - AC ASPHALTIC CONCRETE
 - AD AREA DRAIN
 - APN ASSESSOR'S PARCEL NUMBER
 - ARV AIR RIG VALVE
 - ASB AGGREGATE SUB-BASE
 - BO BLOW-OFF VALVE
 - BV BUTTERFLY VALVE
 - BW BACK OF WALK
 - C/L CENTERLINE
 - CB CATCH BASIN
 - CL CLASS
 - CM CORRUGATED METAL PIPE
 - CTV CABLE TELEVISION
 - CO CLEANOUT
 - COMM COMMUNICATION
 - CONC CONCRETE
 - CONST. CONSTRUCT
 - CR CURB RETURN
 - CS CONCRETE SURFACE
 - DC DOUBLE CHECK VALVE
 - DDC DOUBLE DETECTOR CHECK VALVE
 - DG DECOMPOSED GRANITE
 - DI DROP INLET
 - DIA DIAMETER
 - DIP DUCTILE IRON PIPE
 - DWG DRAWING
 - DOWN DOWNPOUT
 - E ELECTRIC
 - EP EDGE OF PAVEMENT
 - ESMT EASEMENT
 - EX EXISTING
 - FS FIRE SERVICE LINE
 - FDC FIRE DEPARTMENT CONNECTION
 - FL FLOWLINE
 - FM SANITARY SEWER FORCE MAIN
 - FF FINISHED FLOOR ELEVATION
 - FH FIRE HYDRANT
 - GR GRATE ELEVATION
 - GRD GRADE ELEVATION
 - GV GATE VALVE
 - HB HOSE BIBB
 - HBD HEADER BOARD
 - HDPE HIGH DENSITY POLYETHYLENE PIPE
 - HP HIGH POINT
 - NW PIPE INVERT ELEVATION
 - JP JOINT UTILITY POLE
 - LF LINEAL FEET
 - LIP LIP OF GUTTER
 - LT LEFT
 - MS MOWSTRIP
 - NTS NOT TO SCALE
 - OH OVERHEAD
 - CH PORTLAND CEMENT CONCRETE
 - PD PLANTER DRAIN
 - PV POST INDICATOR VALVE
 - PL PROPERTY LINE
 - PP POWER POLE
 - PUE PUBLIC UTILITY EASEMENT
 - PVC POLYVINYL CHLORIDE
 - RCP REINFORCED CONCRETE PIPE
 - R RADIUS
 - RIM MANHOLE RIM ELEVATION (SOLID COVER)
 - RP REDUCED PRESSURE BACKFLOW PREVENTER
 - RT RIGHT OF WAY
 - SCH SCHEDULE
 - SD STORM DRAIN
 - SDMH STORM DRAIN MANHOLE
 - SG SUBGRADE ELEVATION
 - SS SANITARY SEWER
 - SSMH SANITARY SEWER MANHOLE
 - STD STANDARD
 - S/W SIDEWALK
 - TELEPHONE TELEPHONE
 - TC TOP OF CURB
 - TD TRENCH DRAIN
 - TDCB TRENCH DRAIN CATCH BASIN
 - TP TELEPHONE POLE
 - TR TOP OF RAMP ELEVATION
 - TRW TOP OF RETAINING WALL
 - TSW TOP OF SEAT WALL
 - TW TOP OF WALK ELEVATION
 - U UTILITY
 - UG UNDERGROUND
 - UNON UNLESS OTHERWISE NOTED
 - VCP VITRIFIED CLAY PIPE
 - W WATER
 - W/ WITH
 - W/O WITHOUT
 - WW WATER VALVE
- LEGEND**
- NOTE: NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.
- PROPOSED GRADING & DRAINAGE SYMBOLS:**
- 8" SD STORM DRAIN LINE (SIZE AND FLOW SHOWN)
 - STORM DRAIN MANHOLE (SDMH)
 - CATCH BASIN (CB)
 - DROP INLET (DI)
 - AREA DRAIN (AD)
 - PLANTER DRAIN (PD) OR FLOOR DRAIN (FD)
 - STORM DRAIN CLEANOUT
 - ELEVATION
 - FF=100.00 FINISHED FLOOR ELEVATION
 - PAD=99.33 BUILDING PAD ELEVATION
 - CONCRETE SIDEWALK
 - GRADED DIRECTION FOR DRAINAGE FLOW
 - SWALE
 - SLOPE
 - TREE TO BE REMOVED
 - RETAINING WALL
- PROPOSED SANITARY SEWER SYMBOLS:**
- 8" SS SANITARY SEWER LINE (SIZE AND FLOW SHOWN)
 - SANITARY SEWER MANHOLE (SSMH)
 - SEWER CLEANOUT
 - FLUSHER BRANCH
- PROPOSED WATER SYMBOLS:**
- 8" W WATER LINE & SIZE
 - 8" FS FIRE LINE & SIZE
 - 8" DW DOMESTIC WATER LINE & SIZE
 - 8" RW RECLAIMED WATER LINE & SIZE
 - 8" IRR IRRIGATION SERVICE LINE & SIZE
 - 8" NP NON POTABLE WATER LINE & SIZE
 - 8" SP FIRE SPRINKLER SERVICE LINE & SIZE
 - GATE VALVE
 - WATER METER
 - FIRE HYDRANT ASSEMBLY
 - FIRE DEPARTMENT CONNECTION
 - DETECTOR CHECK VALVE
 - REDUCED PRESSURE BACKFLOW PREVENTER
 - BUTTERFLY VALVE
 - AIR RELEASE VALVE + SIZE
 - BLOW-OFF VALVE + SIZE
 - POST INDICATOR VALVE

DEMOLITION GENERAL NOTES

- IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
- NO BURNING OR BLASTING SHALL BE PERMITTED.
- ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
- ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
- ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
- THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN IN THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600, OR 811.
- THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTENT.
- EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- EXISTING UTILITY STRUCTURES AND PIPING NOT SHOWN ON DEMOLITION PLAN TO BE REMOVED SHALL REMAIN AND BE PROTECTED.

UTILITY VERIFICATION NOTE

PRIOR TO THE START OF CONSTRUCTION, VERIFY AND POTHOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.

IRRIGATION DEMOLITION NOTE

WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINES AND HEADS ENCOUNTERED. MAIN LINES AND CONTROL WIRES MAY ONLY BE REMOVED PROVIDED THAT ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEMS INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ENGINEER FOR DIRECTION.

GENERAL NOTES

- THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600, OR 811.
- WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL. IN ADDITION, ANY SUCH ERRORS IN PHYSICAL LOCATION MAY AFFECT THE INTENDED DESIGN OF SUCH IMPROVEMENTS AND WCE CANNOT BE HELD RESPONSIBLE FOR SUCH CONDITIONS WHICH ARE A RESULT OF ERRORS IN SURVEYING, OR IMPROPER CONSTRUCTION.
- IF SUBSURFACE CULTURAL RESOURCES, REMAINS, AND/OR ARTIFACTS ARE UNCOVERED DURING PROJECT CONSTRUCTION, ALL WORK IN THE VICINITY SHALL BE STOPPED UNTIL SUCH ITEMS CAN BE ASSESSED BY AN APPROPRIATE MEMBER OF THE COUNTY ENVIRONMENTAL IMPACT SECTION STAFF.
- CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR ALL EXCAVATIONS OF 5 FEET OR MORE IN DEPTH.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY PRE-BID AND PRE-CONSTRUCTION SITE INSPECTION, AND/OR OBSERVATIONS ON THE SITE TO PRE-DETERMINE ALL HIS/HER MEANS AND METHODS NECESSARY TO COMPLETE THE IMPROVEMENTS SHOWN ON THESE PLANS AND PER THE PROJECT SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER CONTRACT, ALL MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.
- WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ANY SUCH EXISTING IMPROVEMENTS OUTSIDE THE PROJECT BOUNDARY, OR EXISTING IMPROVEMENTS WITHIN THE BOUNDARY WHICH ARE TO REMAIN. PROPER PRECAUTIONS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP DETAILED RECORDS OF MINOR CHANGES OR ADJUSTMENTS MADE DURING CONSTRUCTION (WHICH WERE NOT FORMALLY ISSUED). UPON PROJECT COMPLETION, THESE RECORDS AND/OR INFORMATION SHALL BE PROVIDED TO THE OWNER AND WARREN CONSULTING ENGINEERS, INC. UNLESS AN OFFICIAL "AS-BUILT" SET OF PLANS IS A REQUIREMENT OF THE CONTRACT. IF AS-BUILT PLANS ARE A REQUIREMENT OF THE CONTRACT, REFER TO SPECIFICATIONS FOR AS-BUILT DELIVERABLE REQUIREMENTS.
- IN VEHICULAR PATHWAYS, EXISTING ASPHALTIC AND/OR CONCRETE SURFACES SHALL BE CUT TO A NEAT AND STRAIGHT LINE, PARALLEL OR PERPENDICULAR TO THE VEHICULAR TRAVELED PATH. THIS IS TYPICALLY THE ROADWAY CENTERLINE, BUT MAY VARY. THAT SAWCUT EDGE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION SO A CLEAR PATCH BAG IS BACK. IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.
- NO BURNING OR BLASTING SHALL BE ALLOWED ONSITE UNLESS SPECIFICALLY ADDRESSED ON PLANS, OR SPECIFICALLY APPROVED AND COORDINATED WITH THE ARCHITECT, ENGINEER, AND LOCAL AGENCY OR OTHER ADMINISTRATIVE AUTHORITY.
- SUBGRADE AND RESULTING FINISHED GRADE SHALL BE CONSTRUCTED SMOOTH AND UNIFORM BETWEEN SPOT ELEVATIONS, CONTOURS OR OTHER STRUCTURE ELEVATIONS SHOWN ON GRADING OR OTHER PLANS. NO MOUNDS, RUTS, DEPRESSIONS OR OTHER GRADING DEFICIENCIES WILL BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS.
- ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TIE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.
- CURING COMPOUND SHALL BE APPLIED IN A CONTINUOUS SOLID WET FLOWING COAT. ANY "SPOTTY" APPLICATIONS SHALL BE RECOATED IMMEDIATELY. APPLICATION SHALL BE INSPECTED BY PROJECT INSPECTOR DURING APPLICATION.
- EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE ADDITIONAL SCORE OR EXPANSION JOINTS TO PREVENT UNCONTROLLED CRACKING. THOSE ADDITIONAL JOINTS MAY OR MAY NOT BE SPECIFICALLY SHOWN ON PLANS BUT SHALL BE PROVIDED BY THE CONTRACTOR.
- EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE ADDITIONAL SCORE OR EXPANSION JOINTS TO ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.
- NO MORE THAN 1 GALLON OF WATER PER YARD OF CONCRETE CAN BE ADDED TO THE TRUCK AFTER ARRIVAL TO PROJECT SITE. THE ADDITION OF WATER CAN ONLY BE ADDED UNDER THE SUPERVISION OF THE CONCRETE INSPECTOR OR LABORATORY TECHNICIAN.
- WHEN PUMPING CONCRETE FOR PLACEMENT, ABSOLUTELY NO WATER IS TO BE ADDED TO PUMP HOPPER. ANY WATER ADDED TO HOPPER WILL BE REASON FOR CONCRETE REJECTION AT THE CONTRACTORS EXPENSE.
- ALL CONTRACTION/CONSTRUCTION JOINTS "CJ" SHALL BE 1/4 THE SLAB THICKNESS DEEP, BUT NO LESS THAN 1" FOR CONTROLLING OF CRACKING. CONTRACTOR SHALL EXERCISE CAUTION WHEN FINAL TROWELING OF CONCRETE SO AS NOT TO FILL IN THESE JOINTS WITH CONCRETE CREAM. ANY CRACKS OUTSIDE OF JOINTS WHICH WERE CONSTRUCTED LESS THAN 1" DEEP, SHALL BE CAUSE FOR CONCRETE SLAB(S) TO BE REMOVED AND REPLACE AT CONTRACTORS EXPENSE.
- ANY SCORED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.
- 3-1/2" FELT JOINTS WILL NOT BE ACCEPTED. PROVIDE A FULL 4" FELT JOINT FOR 4" SLAB CONSTRUCTION, AND A 6" FELT JOINT FOR A 6" SLAB CONSTRUCTION.
- SHOULD ANY SHRINKAGE CRACKS OCCUR OUTSIDE OF EITHER THE EXPANSION JOINTS OR CRACK CONTROL JOINTS, THEN THE CONCRETE SLAB SHALL BE SAWCUT AT THE NEAREST JOINTS ON EACH SIDE OF THE CRACK AND THE CONCRETE SECTION SHALL BE, REMOVED AND REPLACED. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE PER DRAWING DETAIL.
- ALL AREAS DISTURBED BY GRADING OPERATIONS WHETHER SHOWN ON THE DRAWINGS OR NOT SHALL BE HYDRO SEEDED UNLESS OTHERWISE NOTED. HYDRO SEEDING SHALL CONFORM TO LOCAL CITY/COUNTY STANDARDS.
- REPAIR OR PATCHING OF GALVANIZED METALS, SUCH AS AFTER WELDING GALVANIZED COMPONENTS, SHALL BE MADE USING A ZINC COMPOSITION "HOT STICK" APPLICATION PER ASTM A 780-01. GALVANIZING PAINTS WILL NOT BE ALLOWED.

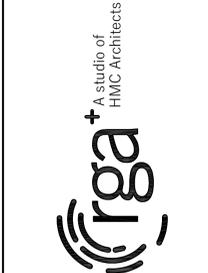
GENERAL PAVING SURFACE NOTES:

- PROVIDE EQUIVALENT OF MEDIUM BROOM FINISH AT SLOPES UP TO 5.99%, TYPICAL PROVIDE EQUIVALENT OF HEAVY BROOM FINISH AT SLOPES 6% AND GREATER. REFER TO SPECIFICATIONS.
- ALL NEW PEDESTRIAN WALKWAYS (NON-RAMP) SHALL BE SLOPED NO GREATER THAN 2.0%, AND NO LESS THAN 0.75% IN ANY DIRECTION, UNLESS SPECIFICALLY LABELED OTHERWISE. ALL CONCRETE SHALL MEET THE FOLLOWING SLOPE REQUIREMENTS:
 - NO GREATER THAN 5% SLOPE IN THE DIRECTION OF TRAVEL.
 - NO GREATER THAN 2% SLOPE CROSSING THE DIRECTION OF TRAVEL.
 - NO GREATER THAN 2% SLOPE IN ANY DIRECTION IN COURTYARD OR PLAZA AREAS.

CIVIL SHEET INDEX

- C0.1 CIVIL GENERAL NOTES AND ABBREVIATIONS
- C1.1 DEMOLITION PLAN
- C2.1 GRADING AND PAVING PLAN

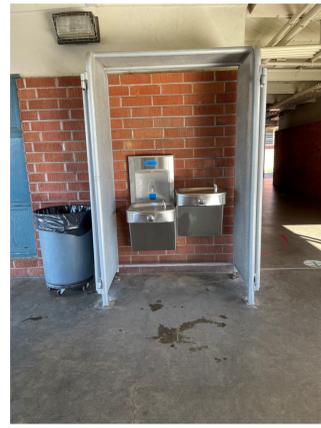
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SHADE STRUCTURE AT JOHN BIDWELL ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

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CIVIL GENERAL NOTES AND ABBREVIATIONS



2 (E) DRINKING FOUNTAIN
1/2" = 1'-0"

PROPOSED SHADE STRUCTURE						
UNIT	DESCRIPTION	OCCUPANCY	CONSTRUCTION TYPE	ALLOWABLE AREA (TABLE 506.2)	ACTUAL AREA	OCCUPANCY CALCULATION
SS	SHADE STRUCTURE	A-3	V-B NON-SPRINKLERED	6,000 S.F.	1,920 S.F.	1,920 S.F. / 15 NET = 128 OCC.

EXISTING BUILDING DESIGNATIONS				
UNIT	DESCRIPTION	DSA APPLICATION #	AREA (SF)	NOTES
A	MULTIPURPOSE	15473	4,844	
B	ADMINISTRATION	15473	5,384	
C1-C2	CLASSROOMS / TOILET ROOMS	15473, THIS APPLICATION	6,270	
D1-D2	CLASSROOMS / TOILET ROOMS	15473, THIS APPLICATION	6,270	
E	STORAGE	15473	800	
F	RELOCATABLE CLASSROOMS	50923	1,920	
G1-G3	RELOCATABLE CLASSROOMS	51735	960 EACH	
H1-H3	RELOCATABLE CLASSROOMS	51735	960 EACH	
J	RELOCATABLE CLASSROOMS	51735	960	
K	RELOCATABLE CLASSROOMS	02-104395	1,420	
L	RELOCATABLE CLASSROOMS	02-104629	2,350	
M	RELOCATABLE CLASSROOMS	50923	1,936	

LEGEND

- PROPERTY LINE
- - - - ASSUMED PROPERTY LINE
- UNIT DESIGNATION
- PC SHADE STRUCTURE / DEFERRED APPROVAL
- UNIT DESIGNATION
- EXISTING BUILDINGS
- EXPANSION JOINT
- CONCRETE WALK / PAVING
- CONTROL JOINT
- ASPHALT CONCRETE PAVING
- ACCESSIBLE PATH OF TRAVEL

1. SITE WALKWAYS SHALL PROVIDE A BARRIER-FREE P.O.T. ABRUPT CHANGES IN LEVEL ALONG ANY P.O.T. ARE ALLOWED UP TO 1/2" ONLY. ABRUPT CHANGES IN ELEVATION UP TO 1/4" ARE ALLOWED TO HAVE A VERTICAL TRANSITION. ABRUPT CHANGES IN ELEVATION BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:1. UNIT VERTICAL TO 2 UNITS HORIZONTAL.
2. WALKWAYS SHALL BE FREE OF GRATINGS WHEREVER POSSIBLE. GRATINGS WHICH OCCUR WITHIN THE P.O.T. SHALL HAVE OPENINGS WHICH DO NOT EXCEED 1/2" IN THE DIRECTION OF TRAVEL PER CBC SECTION 11B-302.3.
3. AN ABRUPT DROP-OFF CHANGE IN ELEVATION AT THE EDGE OF ANY WALK INTO AN ADJACENT PLANTER SHALL NOT EXCEED 4".
4. SLOPES IN THE DIRECTION OF THE P.O.T. GREATER THAN 1:1 UNIT VERTICAL TO 20 UNITS HORIZONTAL SHALL BE CONSIDERED A RAMP AND WILL REQUIRE HANDRAILS ON BOTH SIDES PER CBC SECTION 11B-506. SLOPES IN THE DIRECTION OF THE P.O.T. ALONG WALKWAYS SHALL NOT EXCEED 5%. CROSS SLOPES IN THE P.O.T. ALONG WALKWAYS SHALL NOT EXCEED 2%.
5. ALL WALKWAYS WITHIN THE P.O.T. SHALL BE A MINIMUM OF 48" IN WIDTH. SURFACES WITH A SLOPE OF 5% OR LESS SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT PROVIDED BY A LIGHT BROOM FINISH. SURFACES WITH A SLOPE OF MORE THAN 5% SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT PROVIDED BY A MEDIUM BROOM FINISH.
6. OBJECTS PROTRUDING INTO THE P.O.T. SHALL NOT REDUCE THE CLEAR WIDTH OR MANEUVERING SPACE WITHIN THE P.O.T. PER CBC SECTION 11B-307.
7. PASSING SPACES (11B-403.5.3) OF 60" X 60" MIN. ARE LOCATED NOT MORE THAN 200' APART. WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE 60" IN LENGTH LEVEL RESTING AREAS (11B-403.7) NOT MORE THAN 400' APART. P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN (11B-307.4) AND FREE OF PROTRUDING OBJECTS (11B-307) GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80". OBJECTS PROTRUDING INTO THE P.O.T. SHALL NOT REDUCE THE CLEAR WIDTH OR MANEUVERING SPACE REQUIRED FOR ACCESSIBLE ROUTES (11B-307.5).

EXISTING PATH OF TRAVEL (POT): ARCHITECT STATEMENT

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE IN CHARGE STATEMENT: THE POT 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 NON-COMPLIANT:

- 1) HAVE BEEN IDENTIFIED AND
- 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

ANY NON-COMPLIANT 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.

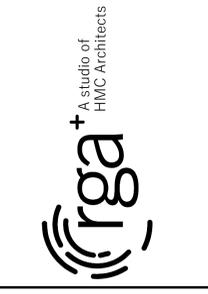
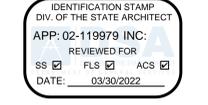
DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-COMPLYING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT TO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

ACCESSIBLE PARKING STALL CALCULATION

TOTAL PARKING STALL COUNT:	18 STALLS
ACCESSIBLE PARKING STALLS:	(TABLE 11B-208.2)
REQUIRED ACCESSIBLE STALLS:	1 (1-25 TOTAL STALLS)
REQUIRED VAN ACCESSIBLE STALLS:	1 (1-6 ACCESSIBLE STALLS)
ACCESSIBLE STALLS PROVIDED:	1 STANDARD & 1 VAN

SHEET NOTES

- SN 01 (E) PARKING LOT ENTRANCE SIGN REVIEWED AND VERIFIED PER THIS APPLICATION.
- SN 02 ACCESSIBLE PARKING STALLS PER THIS APPLICATION.
- SN 03 (E) ACCESSIBLE STAFF TOILET ROOM UPGRADED PER THIS APPLICATION.
- SN 04 (E) ACCESSIBLE GIRL'S TOILET ROOM UPGRADED PER THIS APPLICATION.
- SN 05 (E) ACCESSIBLE BOYS' TOILET ROOM UPGRADED PER THIS APPLICATION.
- SN 06 (E) ACCESSIBLE DRINKING FOUNTAIN REVIEWED AND VERIFIED PER THIS APPLICATION. SEE 2/A1.1.0-1



SHADE STRUCTURE AT JOHN BIDWELL
 ELEMENTARY SCHOOL
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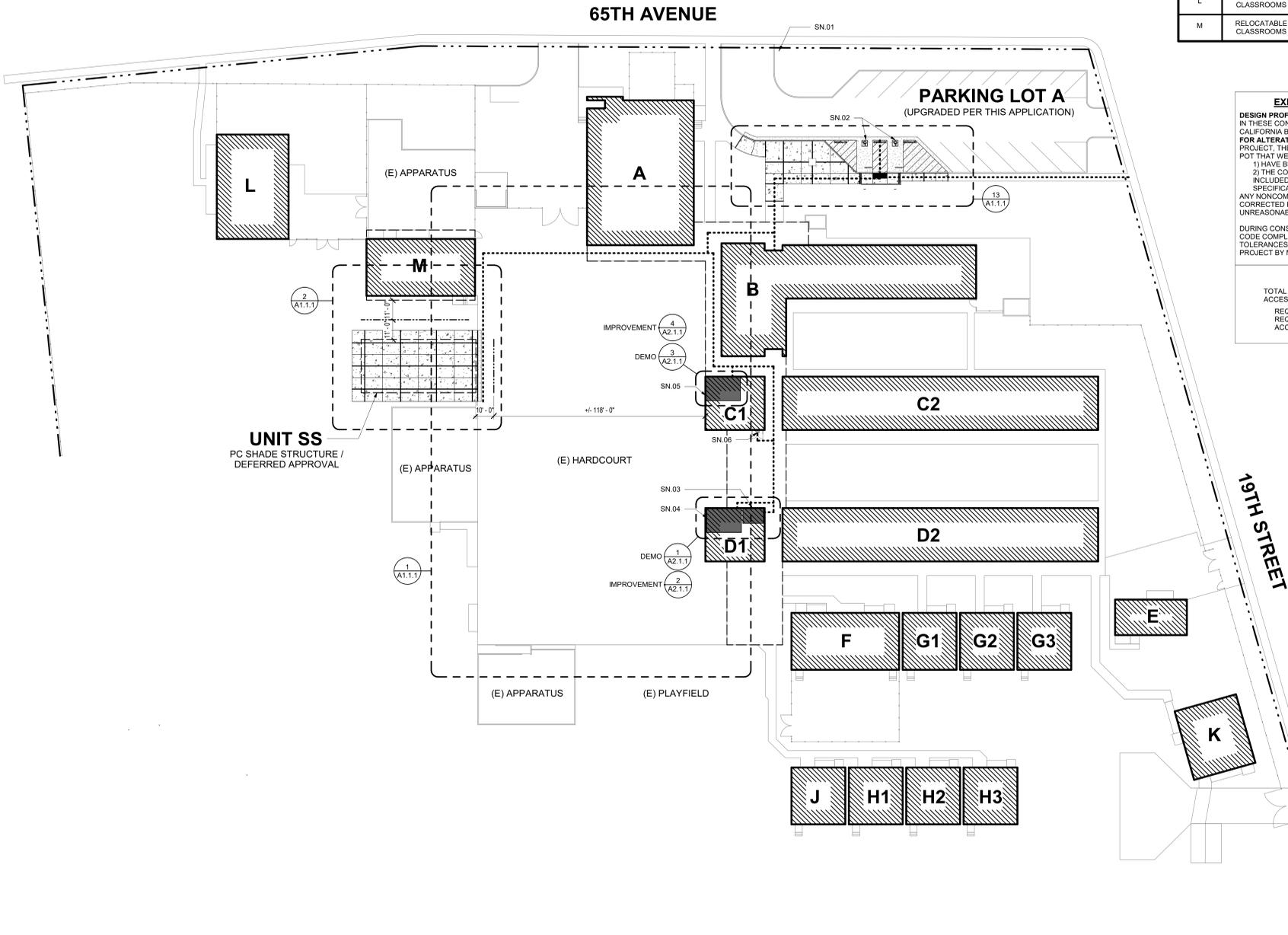
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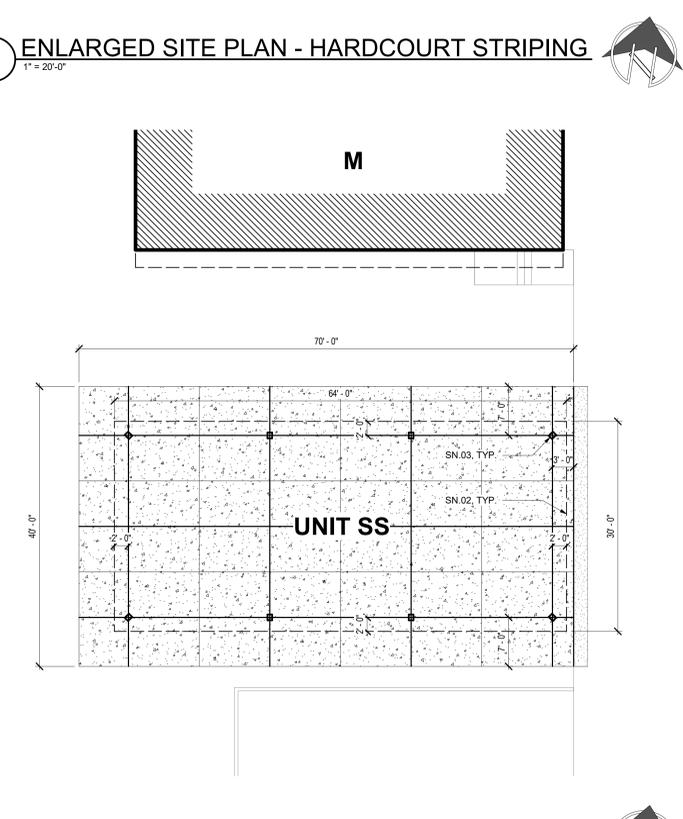
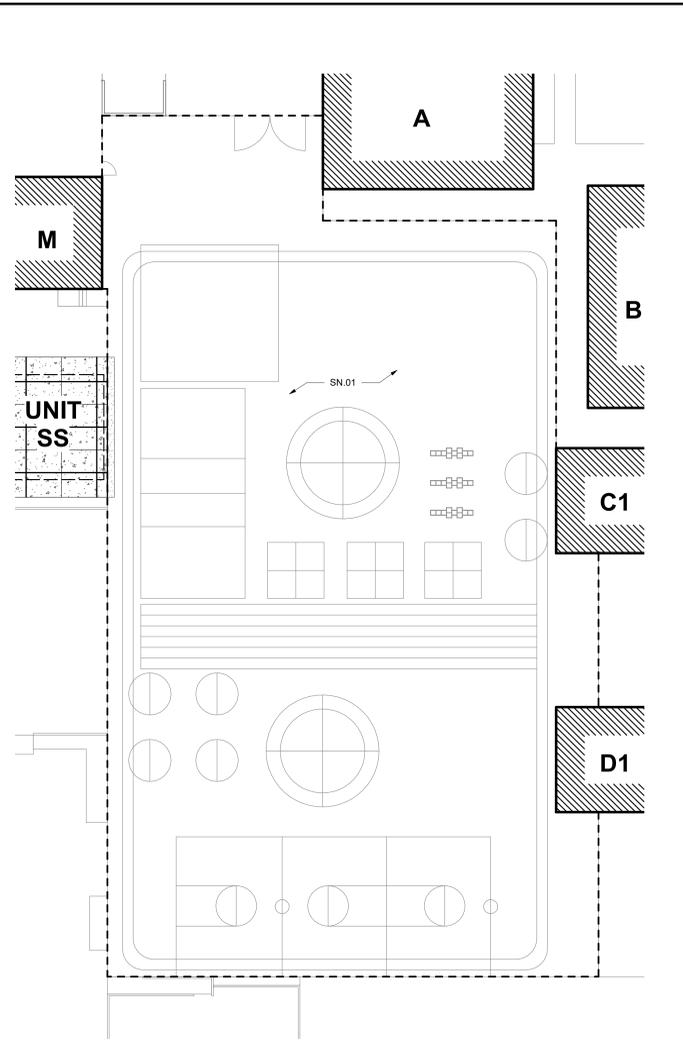
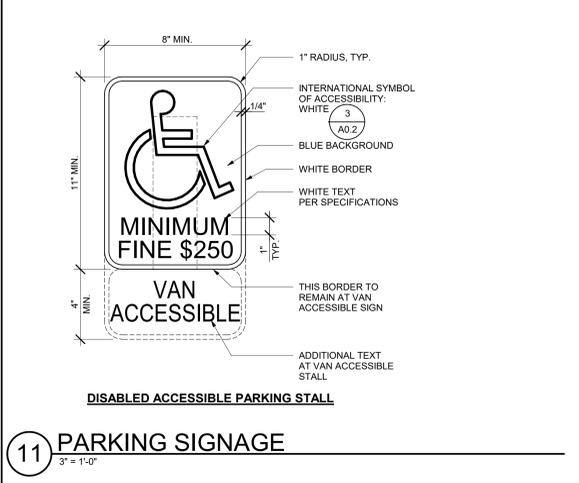
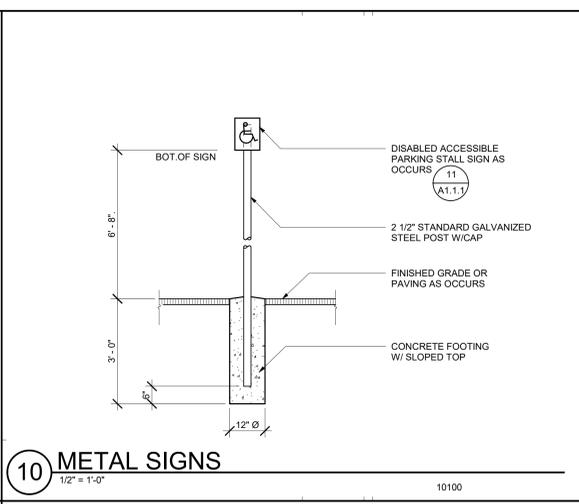
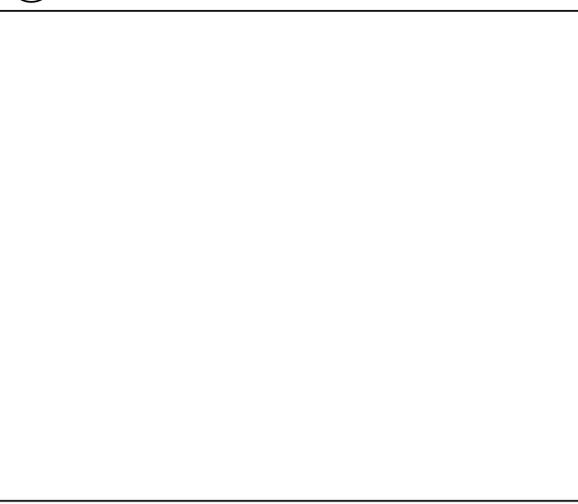
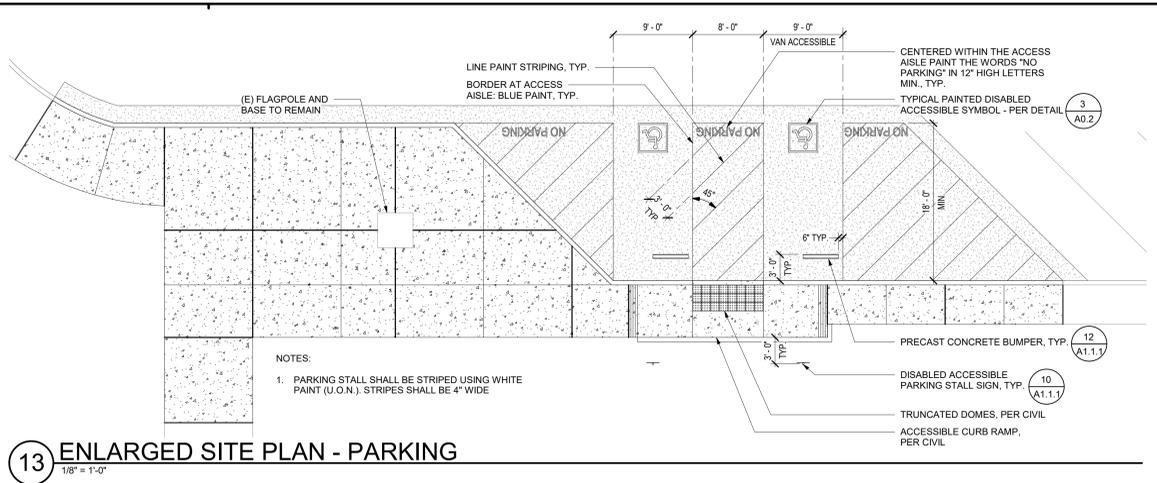
SITE PLAN AND CODE INFORMATION

PROJECT NO. 21-1504.02
 DATE: 3/1/22
 SHEET: A1.1.0

1 SITE PLAN
1" = 30'-0"



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- LEGEND**
- PROPERTY LINE
 - ASSUMED PROPERTY LINE
 - UNIT DESIGNATION
 - PC SHADE STRUCTURE / DEFERRED APPROVAL
 - EXISTING BUILDINGS
 - EXPANSION JOINT
 - CONCRETE WALK / PAVING
 - CONTROL JOINT
 - ASPHALT CONCRETE PAVING

- GENERAL NOTES**
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF CRACK REPAIR AT (E) HARDCOURT.
 - THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING (E) STRIPING CONDITIONS AND VERIFYING EXACT LAYOUT TO BE RESTRIPE WITH DISTRICT.

- SHEET NOTES**
- ALTERNATE 1: (E) HARDCOURT SHALL RECEIVE CRACK REPAIRS AND 2 COATS OF SEAL COAT. (E) STRIPING IS TO BE RESTRIPE OVER SEAL COAT. EXTENTS SHOWN DASHED
 - ROOF OVERHANG ABOVE, PER PC SHADE STRUCTURE / DEFERRED APPROVAL. CONTRACTOR IS RESPONSIBLE FOR FIELD CUTTING METAL ROOF PANELS FOR INSTALLATION.
 - HSS COLUMN AND FOOTING, PER PC SHADE STRUCTURE / DEFERRED APPROVAL.

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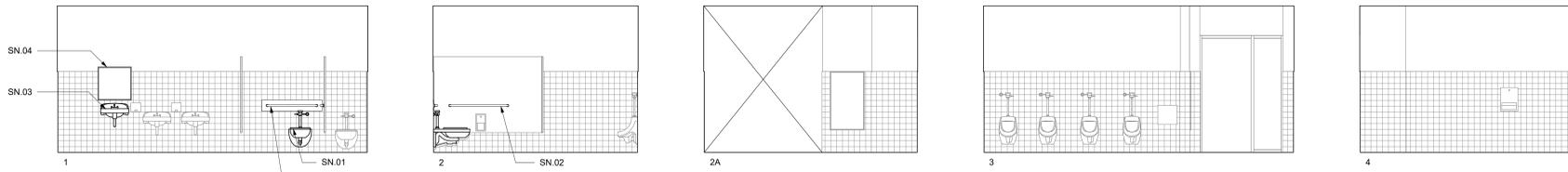
SHADE STRUCTURE AT JOHN BIDWELL
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SACRAMENTO, CA

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PARTIAL SITE PLANS
AND DETAILS

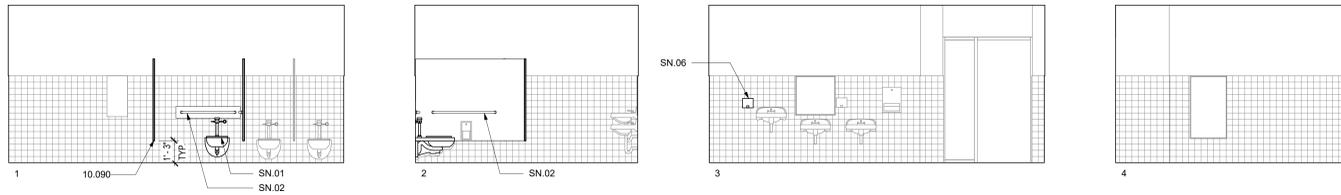
PROJECT NO. 21-1504.02
DATE: 3/1/22
SHEET
A11.1

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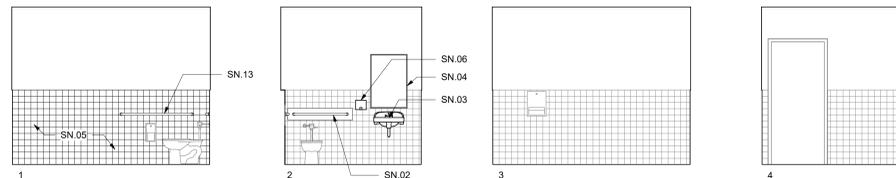
C101 - BOYS
1/4" = 1'-0"

ADULT HEIGHT



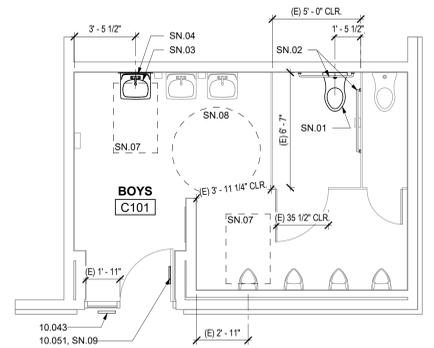
D101 - GIRLS
1/4" = 1'-0"

ADULT HEIGHT

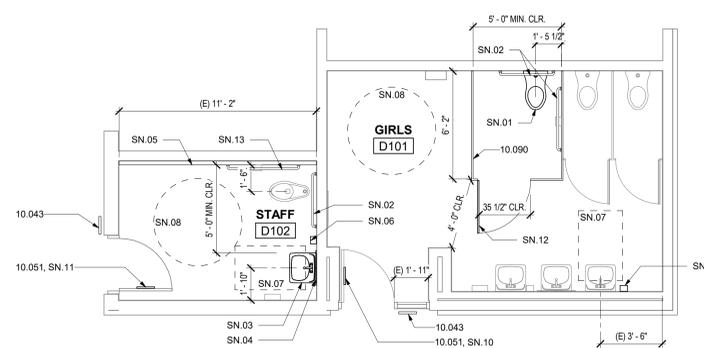


D102 - STAFF
1/4" = 1'-0"

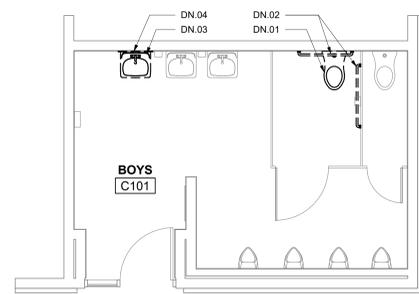
ADULT HEIGHT



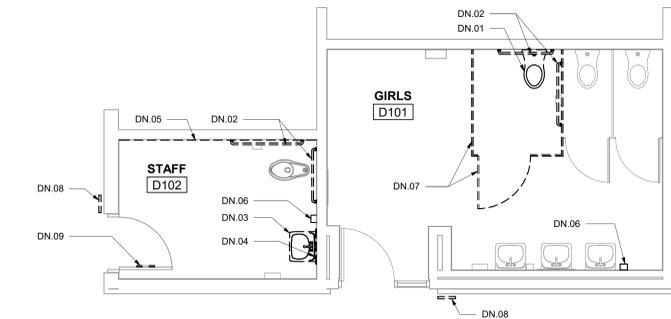
4 BOYS - IMPROVEMENT ADULT HEIGHT
1/4" = 1'-0"



2 GIRLS AND STAFF - IMPROVEMENT ADULT HEIGHT
1/4" = 1'-0"



3 BOYS - DEMOLITION
1/4" = 1'-0"



1 GIRLS AND STAFF - DEMOLITION
1/4" = 1'-0"

LEGEND

4.5 1 1.5
4 INTERIOR ELEV 2
3.5 3 2.5

CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

GENERAL NOTES

- FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.2
- PROTECT ALL ADJACENT SURFACES, ITEMS AND FINISHES NOT NOTED TO BE DEMOLISHED.
- EQUIPMENT/FIXTURES NOTED AS "SALVAGED FOR REINSTALLATION" WILL BE REMOVED AND STORED BY THE CONTRACTOR PRIOR TO START OF DEMOLITION. THESE EQUIPMENT/FIXTURES SHALL BE REINSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT.
- REMOVE ALL ITEMS SCHEDULED TO BE REMOVED, INCLUDING MOUNTING HARDWARE.
- DEMO AND REPAIR WALL FINISH AS NECESSARY TO PERFORM FIXTURE AND EQUIPMENT WORK AS NOTED. ADJACENT FINISHES TO BE VERIFIED BY CONTRACTOR.

DEMOLITION NOTES

- DN.01 REMOVE (E) WALL-MOUNTED WATER CLOSET AND SALVAGE FOR REINSTALLATION
- DN.02 REMOVE (E) GRAB BARS AND SALVAGE FOR REINSTALLATION
- DN.03 REMOVE (E) LAVATORY AND SALVAGE FOR REINSTALLATION
- DN.04 REMOVE (E) MIRROR AND SALVAGE FOR REINSTALLATION
- DN.05 REMOVE (E) TILE FINISH FROM THIS WALL ONLY
- DN.06 REMOVE (E) SOAP DISPENSER AND SALVAGE FOR REINSTALLATION
- DN.07 REMOVE (E) TOILET PARTITION, SALVAGE (E) TOILET PARTITION DOOR FOR REINSTALLATION
- DN.08 REMOVE (E) TOILET ROOM I.D. SIGN
- DN.09 REMOVE (E) TOILET ROOM DOOR SYMBOL

SHEET NOTES

- SN.01 REINSTALL (E) SALVAGED WALL-MOUNTED WATER CLOSET TO COMPLY WITH A0.2. ADJUST (E) WATER CARRIER AS REQUIRED FOR RECONNECTION TO WATER CLOSET.
- SN.02 REINSTALL (E) SALVAGED GRAB BARS TO COMPLY WITH A0.2
- SN.03 REINSTALL (E) SALVAGED LAVATORY TO COMPLY WITH A0.2. ADJUST (E) WATER CARRIER AS REQUIRED FOR RECONNECTION TO LAVATORY. RECONNECT TO (E) WATER LINE, WASTE LINE AND VENT.
- SN.04 REINSTALL (E) SALVAGED MIRROR TO COMPLY WITH A0.2
- SN.05 FURRED WALL PER
- SN.06 REINSTALL (E) SALVAGED SOAP DISPENSER TO COMPLY WITH A0.2
- SN.07 30" X 48" CLEAR SPACE
- SN.08 60" DIA. TURNING CIRCLE
- SN.09 SIGN TO READ "BOYS"
- SN.10 SIGN TO READ "GIRLS"
- SN.11 SIGN TO READ "STAFF"
- SN.12 REINSTALL (E) SALVAGED TOILET PARTITION DOOR
- SN.13 REINSTALL (E) SALVAGED GRAB BAR TO COMPLY WITH A0.2 AND PER

KEYNOTES

- 10.043 SIGNAGE: TOILET ROOM IDENTIFICATION
- 10.051 SIGNAGE: TOILET ROOM DOOR SYMBOL
- 10.090 COMPOSITE TOILET COMPARTMENT



SHADE STRUCTURE AT JOHN BIDWELL
ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
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**TOILET ROOM
DEMOLITION AND
IMPROVEMENT PLANS
AND INTERIOR
ELEVATIONS**

UNITS C1 AND D1

PROJECT NO. 21-1504.02
DATE: 3/1/22
SHEET

A2.1.1

ABBREVIATION LIST

@ AT
 A AMPERE
 AC ALTERNATING CURRENT
 A/C AIR CONDITIONING
 AER ARC ENERGY REDUCTION
 AF AMP FRAME
 AFF ABOVE FINISHED FLOOR
 AIC AMPERES INTERRUPTING CAPACITY
 AT AMP TRIP SETTING
 AWG AMERICAN WIRE GAUGE
 BC BARE COPPER
 BD BOARD
 BFC BELOW FINISHED CEILING
 BRKR BREAKER
 BLDG BUILDING
 BPS BOOSTER POWER SUPPLY
 C CONDUIT
 C/B CIRCUIT BREAKER
 CFCI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
 CIRC CIRCUIT
 CLG CEILING
 CO CONDUIT ONLY, WITH PULL LINE
 CONT CONTINUOUS
 CU COPPER
 CWP METALLIC COLD WATER PIPE
 (D) DEMOLISH
 DC DIRECT CURRENT
 DISC DISCONNECT
 DP DISTRIBUTION PANEL
 (E) EXISTING
 E/W EACH WITH
 EA EACH
 EL EVENING LIGHT
 ELEC ELECTRIC
 EM EMERGENCY
 ENT ELECTRICAL METALLIC TUBING
 EQ END OF LINE DEVICE
 EQUIP EQUIPMENT
 (ER) EXISTING RELOCATED
 EWH ELECTRICAL WATER COOLER
 EWH ELECTRICAL WATER HEATER
 (F) FUTURE
 FAOP FIRE ALARM CONTROL PANEL
 FAEP FIRE ALARM EXTENDER PANEL
 FATC FIRE ALARM TERMINAL CABINET
 FBO FURNISHED BY OTHERS
 FLUOR FLUORESCENT
 FT FOOT
 GA GAUGE
 GFCI GROUND FAULT CIRCUIT INTERRUPT
 GLZ GENERAL LIGHTING ZONE
 GND GROUND
 GP METALLIC GAS PIPE
 GYP GYPSUM
 HID HIGH INTENSITY DISCHARGE
 HT HORSE POWER
 HZ HERTZ
 IMC INTERMEDIATE METALLIC CONDUIT
 INCH INCH
 ISC SHORT CIRCUIT CURRENT
 (RMS SYMMETRICAL)
 ISO ISOLATED
 J BOX JUNCTION BOX
 K-MIL THOUSAND CIRCULAR MILLS
 KVA KILO VOLT AMP
 KW KILOWATT
 LC LIGHTING CONTROL PANEL
 LV LOW VOLTAGE
 MCM THOUSAND CIRCULAR MILLS
 MECH MECHANICAL
 MDP MAIN DISTRIBUTION PANEL
 MH METAL HALIDE
 MISC MISCELLANEOUS
 MLO MAIN LUGS ONLY
 MPOE MAIN POINT OF ENTRY
 MSB MAIN SWITCHBOARD
 (N) NEW
 NIC NOT IN CONTRACT
 NIES NOT IN ELECTRICAL SECTION OF THESE PLANS & SPECS.
 NL NIGHT LIGHT
 NO # NUMBER
 NTS NOT TO SCALE
 ON CENTER ON CENTER
 OFCI OWNER FURNISHED, CONTRTRACTOR INSTALLED
 OFOI OWNER FURNISHED, OWNER INSTALLED
 P POLE
 PB PULL BOX
 PFB PROVISION FOR FUTURE BREAKER W/ MOUNTING HARDWARE
 PDZ PRIMARY DAYLIT ZONE
 PFCT PROVISION FOR FUTURE CURRENT TRANSFORMER
 PH, Ø PHASE
 PLYWD PLYWOOD
 PNL PANEL
 PR PAIR
 PVC POLYVINYL CHLORIDE CONDUIT
 (R) RELOCATE / RELOCATED
 REQ'D REQUIRED
 RM ROOM
 RMC RIGID METAL CONDUIT
 (RR) REMOVE AND REPLACE
 SDZ SECONDARY DAYLIT ZONE
 SKZ SKYLIGHT DAYLIT ZONE
 SPEC SPECIFICATION
 STC SIGNAL TERMINAL CABINET
 SQ SQUARE
 SW SWITCH
 TEL TELEPHONE
 TGB TELECOMMUNICATIONS GROUNDING
 BUSBAR
 TMB TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
 TELEPHONE TERMINAL BOARD
 TYP TYPICAL
 UC UNDERGROUND
 UNLESS OTHERWISE NOTED
 V VOLTS
 WP WEATHERPROOF
 W WEIGHT
 WATT
 W/ WITH
 XFRM TRANSFORMER
 & AND

GENERAL NOTES

- PLANS ARE NOT FOR CONSTRUCTION UNTIL APPROVED BY THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL NOT ORDER ANY MATERIALS OR INSTALL ANY EQUIPMENT, PIPING, ETC. UNTIL PLANS ARE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- ALL WORK SHALL BE DONE AT SUCH TIME AND IN SUCH MANNER AS PRESCRIBED BY THE SCHOOL'S REPRESENTATIVE.
- PROTECT EXISTING EQUIPMENT AND FURNISHINGS FROM ANY DAMAGE DUE TO DUST, MOISTURE OR CONTACT WITH WORK CREW OR MATERIALS.
- THE SCHOOL SHALL BE NOTIFIED AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY POWER SHUTDOWN OF EXISTING PANELS OR SERVICE. SCHEDULE OF SHUTDOWNS SHALL BE AT CONVENIENCE OF THE SCHOOL. THE SCHOOL MAY, AT THEIR OPTION, HAVE A REPRESENTATIVE PRESENT DURING SHUTDOWN. ALL WORK REQUIRING SHUTDOWNS OF EXISTING PANELS OR SERVICE SHALL BE DONE BETWEEN 12:00 AM MIDNIGHT AND 6:00AM WEEKDAYS OR ON SATURDAY AND SUNDAY. REQUIRED SHUTDOWNS SHALL BE KEPT TO A MINIMUM.
- ADEQUATELY STRAP AND SUPPORT ALL CONDUIT WORK PER CEC. IN GENERAL, SUPPORT ALL CONDUIT WITHIN THREE FEET (3') OF OUTLET BOX, CABINET OR PANEL AND MAXIMUM TEN FEET (10') ON CENTER THEREAFTER.
- CORE BORE SHALL BE 1" DIAMETER LARGER THAN EACH CONDUIT. SPACE CONDUIT HOLES 3" APART. SEAL AROUND CONDUIT WITH NON-SHRINK, NON-METALLIC GROUT.
- ALL CONDUCTORS INSTALLED IN PANELBOARDS SHALL BE TRAINED, LACED, AND INSTALLED WITH PHASE TAPE ON ALL CONDUCTORS.
- LABEL DEVICES (I.E. RECEPTACLES, ETC.) ON EACH COVER PLATE IDENTIFYING CIRCUIT AND PANEL DEVICE IS CONNECTED TO.
- CLEAN ALL EXTERIOR AND INTERIOR SURFACES OF PANELS AND ALL MATERIAL AND METAL SHAVINGS FROM PANEL AND CABINET INTERIORS. ALL OPENINGS SHALL BE SEALED AND APPLY TOUCH-UP SPRAY PAINT WHERE NEEDED.
- FIELD COORDINATE DEVICE LOCATIONS PRIOR TO ROUGH-IN.
- CONTRACTOR WILL PROVIDE WARNING LABELS NOTING THE POTENTIAL FOR ELECTRIC ARC FLASH HAZARDS PER CEC 110.16. PROVIDE LABELS ON EQUIPMENT SUCH AS SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, MOTOR CONTROL CENTERS, MOTOR STARTER / CONTACTOR PANELS, DISCONNECTS, ETC.. PROVIDE WARNING LABELS BY BRADY, MODEL NO. 101517, OR EQUAL, ON ALL EQUIPMENT.
- INSTALLATION SHALL COMPLY WITH CEC 210.4 – EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES. THEREFORE ANY CIRCUIT SHARING A COMMON NEUTRAL SHALL BE CAPABLE OF SIMULTANEOUS DISCONNECT OR DEDICATED NEUTRALS SHALL BE INSTALLED.
- SUPPORT ENCLOSURES, BOXES AND CONDUIT INSTALLATIONS PER CEC 314.23 (A) THROUGH (H).
- SEAL CONDUIT OPENINGS THROUGH WALLS AND CEILING. INSTALL ESCUTCHEON PLATES AT BUILDING INTERIOR, WHERE EQUIPMENT IS INSTALLED ON THE EXTERIOR WALL, STUB CONDUITS THROUGH WALL AND SEAL CONDUIT OPENINGS. THEN INSTALL EXTERIOR EQUIPMENT. ALSO, SEAL AROUND THE PERIMETER EDGE OF THE EQUIPMENT ENCLOSURE BETWEEN THE ENCLOSURE AND BUILDING.
- CONDUITS INSTALLED ON ROOF AND BUILDING EXTERIOR SHALL BE RIGID GALV. STEEL (HEAVY WALL) WITH THREADED FITTINGS. CONDUIT AND WALL TO BE PAINTED OUT TO MATCH EXTERIOR FINISH.
- SPLICES AND TERMINALS SHALL BE COMPRESSION TYPE OF SEAMLESS PURE COPPER, TIN PLATED, LONG BARREL (TERMINALS WITH TWO-HOLE PAD AND INSPECTION WINDOW WITH NEMA DRILLING), AS MANUFACTURED BY BURNDY TYPE YS, YAZ-ZN OR EQUAL. CLEAN ALL SURFACES AND INSTALL WITH OXIDE INHIBITING COMPOUND, BURNDY PENETROX-E OR EQUAL. APPLY COMPOUND BETWEEN BUS AND LUG PAD AND BETWEEN CONDUCTOR AND LUG BARREL. INSTALL COMPRESSION CONNECTORS WITH 360° CIRCUMFERENTIAL COMPRESSION DYE, BURNDY HYPRESS OR EQUAL. THE INDENTER OR OTHER TYPE TOOLS WILL NOT BE ACCEPTABLE.
- INSTALL "MECHANICALLY FASTENED PHENOLIC NAMEPLATE WITH WHITE LETTERING ON BLACK BACKGROUND ON ALL EQUIPMENT, INCLUDING PULL BOXES, WITH DESCRIPTION INDICATED ON DRAWINGS. NAMEPLATES SHALL READ EXACTLY AS DESCRIBED ON THE DRAWINGS. IN GENERAL, NAMEPLATE LETTERING SIZE SHALL BE 3/16" HIGH FOR ALL NAMEPLATES SERVING FEEDER AND BRANCH CIRCUIT BREAKERS. ON MAIN SERVICE PANEL, DISTRIBUTION PANELS AND ALL OTHER NAMEPLATES LETTERING SHALL BE 1/4" HIGH.
- ALL SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, VFD'S, MOTORS, JUNCTION BOXES, PULL BOXES, DISCONNECT SWITCHES, ETC., SHALL BE MARKED TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THE POWER ORIGINATES PER CEC 408.4, FIELD IDENTIFICATION REQUIRED. (B) SOURCE OF SUPPLY.
- COORDINATE EQUIPMENT LOCATIONS, CONTROL AND POWER WIRING REQUIREMENTS AND CONNECT POINTS WITH ALL APPLICABLE DISCIPLINES.
- PROVIDE AND INSTALL FUSES PER UNIT NAMEPLATE DATA ON THE EQUIPMENT PROVIDED.
- A LAMINATED COPY OF THE FINAL RECORD ONE LINE DIAGRAM SHALL BE PLACED IN ELEC ROOM.
- PROVIDE WRING DEVICES AND COVER PLATES IN COLOR(S) SELECTED BY ARCHITECT. THE COLOR OF THE WRING DEVICE AND COVER PLATE SHALL BE THE SAME UNLESS SPECIFICALLY NOTED OTHERWISE.
- RECEPTACLE WEATHERPROOF COVERS SHALL BE LISTED "EXTRA DUTY", LOCKABLE, METAL, IN-USE TYPE.
- REINSTALL EXISTING ELECTRICAL INSTALLATIONS DISTURBED. CERTAIN EXISTING ELECTRICAL INSTALLATIONS MAY BE LOCATED IN WALLS, CEILING OR FLOORS THAT ARE TO BE REMOVED AND ARE ESSENTIAL FOR THE OPERATION OF OTHER REMAINING INSTALLATIONS. WHERE THIS CONDITIONS OCCURS, PROVIDE A NEW EXTENSION OF ORIGINAL CIRCUITS, RACEWAYS, EQUIPMENT AND OUTLETS TO RETAIN SERVICE CONTINUITY. INSTALLATIONS SHALL BE CONCEALED IN FINISHED AREAS.
- FOR ROOF PENETRATIONS, REFER TO ARCHITECTURAL PLANS FOR INSTALLATION REQUIREMENTS.
- FOR WALL PENETRATION INSTALLATIONS, REFER TO ARCHITECTURAL PLANS FOR REQUIREMENTS.
- PROVIDE "LOOK-ON" DEVICE FOR ALL CIRCUIT BREAKERS ON EMERGENCY DEDICATED CIRCUITS.
- DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC. CONTRACTOR SHALL ACCEPT RESPONSIBILITY IN FAMILIARIZING THEMSELVES WITH ARCHITECTURAL AND STRUCTURAL CONDITIONS ALONG WITH INHERENT SPACE LIMITATIONS. WITH THAT UNDERSTANDING SHALL PROVIDE ALL ITEMS OF LABOR, MATERIALS AND TOOLS REQUIRED TO PROVIDE A COMPLETE INSTALLATION.
- MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN ANY CONDUIT AND (E) UTILITY CONDUIT.
- FOR INTERSECTING TRENCHED CONDUIT, MAINTAIN OR EXCEED THE MINIMUM CONDUIT DEPTH REQUIREMENTS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED AND BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVEABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/20 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVEABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL, THAT DIRECTLY SUPPORTS THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL, THAT DIRECTLY SUPPORTS THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2019 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING-AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP MD PP E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
 MP MD PP E OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____

SYMBOLS LIST

- FUSED DISCONNECT SWITCH
- DUPLEX CONVENIENCE OUTLET
- DOUBLE DUPLEX CONVENIENCE OUTLET
- GROUND FAULT CIRCUIT INTERRUPTER DUPLEX OUTLET
- GROUND FAULT CIRCUIT INTERRUPTER DOUBLE DUPLEX OUTLET
- SPECIAL OUTLET TO MATCH CAP PROVIDED WITH MACHINE
- FLUSH FLOOR BOX OR "POKE-THRU" UNIT EQUIPPED WITH FLUSH OR PEDESTAL DUPLEX RECEPTACLE AND VOICE/DATA OUTLETS AS NOTED OR REFER TO SCHEDULE ON DRAWINGS.
- PLUGMOLD/WIREMOLD RECEPTACLE SYSTEM
- TRANSFORMER
- JUNCTION BOX, SIZE AS REQUIRED BY CODE
- FLEX CONNECTION TO FIXTURE
- PANELBOARD, RECESSED MOUNTED
- PANELBOARD, SURFACE MOUNTED
- MAIN SWITCHBOARD
- TERMINAL CABINET, RECESSED MOUNTED
- TERMINAL CABINET, SURFACE MOUNTED
- HOMERUN TO PANELBOARD OR RESPECTIVE TERMINAL
- CONDUIT RUN CONCEALED IN CEILING OR WALL, SEE SYMBOLS LIST NOTES
- CONDUIT RUN UNDERGROUND OR UNDER FLOOR
- EMERGENCY SYSTEM CONDUIT AND WIRES
- INSULATED GREEN GROUND CONDUCTOR
- INSULATED ISOLATED GROUND CONDUCTOR, GREEN WITH TRACER STRIPE
- CONDUIT RISER
- EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED
WIREMOLD SURFACE RACEWAY(S) WITH OUTLETS AS SHOWN OR NOTED, SEE SURFACE RACEWAY SCHEDULE
- SYMBOLS REFERRING TO KEYED NOTES ON SAME SHEET
- MECHANICAL EQUIPMENT BY OTHERS, CONNECTED BY ELECTRICAL CONTRACTOR
- DETAIL DESIGNATION, "A-1" SIGNIFIES DETAIL, "E-1" SIGNIFIES SHEET NUMBER
- (1)1-1/2" ← INDICATES SIZE OF CONDUIT = ONE AND ONE HALF INCH CONDUIT
- ← NUMBER WITHIN PARENTHESIS INDICATES QUANTITY OF CONDUITS

SYMBOLS LIST NOTES:

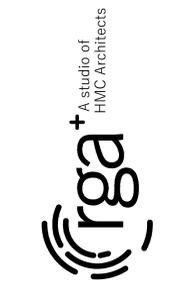
- MOUNT SWITCH BOXES AT +48" TO TOP OF BOX UNLESS OTHERWISE NOTED.
- MOUNT OUTLET BOXES AT +15" TO BOTTOM OF BOX UNLESS OTHERWISE NOTED.
- "A" ADJACENT TO OUTLET INDICATES OUTLET BOX TO BE MOUNTED ABOVE COUNTER, COORDINATE WITH COUNTER HEIGHT AND DEPTH PRIOR TO ROUGH IN. MOUNT OUTLET ABOVE COUNTERS AT:
 - +48" MAX TO TOP OF BOX WHERE BOX IS INSTALLED OVER BASE CABINET.
 - +44" MAX TO TOP OF BOX WITH OPEN COUNTERS WITH FORWARD APPROACH.
- OUTLET BOXES SHALL BE:
 - WALL MOUNTED – 4" SQ. x 2-1/8" DEEP MINIMUM
 - CEILING MOUNTED – 4" SQ. OR 4" OCT. x 2-1/8" DEEP MINIMUM
- OUTLET BOXES REQUIRING 1-1/4", 1-1/2" OR 2" CONDUITS SHALL BE 4-11/16" x 3-1/4" DEEP MINIMUM.
- FLUSH MOUNTED OUTLET BOXES SHALL UTILIZE TRIM RINGS. COORDINATE TRIM RING DEPTH WITH WALL FINISH PRIOR TO ROUGH-IN.
- NO CROSSBARS ON CONDUIT RUN INDICATES MINIMUM 1" CONDUIT, TWO #10 CU CONDUCTORS PLUS #10 CU GND. CROSSBARS INDICATE NUMBER OF #10 CU CONDUCTORS IN CONDUIT. CONDUCTOR SIZES OTHER THAN #10 NOTED ON DRAWINGS. INCREASE CONDUIT SIZE AS REQUIRED TO ACCOMMODATE C.E.C. WIRE FILL REQUIREMENTS. INCLUDE ADDITIONAL BOND WIRE IN ALL PVC AND FLEXIBLE CONDUIT. LONG CROSSBAR INDICATES NEUTRAL CONDUCTOR, SHORT CROSSBARS INDICATE PHASE CONDUCTORS.
- INCREASE BRANCH CIRCUIT CU CONDUCTOR SIZES AS REQUIRED BY THE 120V BRANCH CIRCUIT VOLT DROP CONDUCTOR LENGTH CHART BELOW. USE CONDUCTOR LENGTHS AS FIELD MEASURED, BASED UPON MEASURED FIELD ROUTING LENGTHS. INCREASE MINIMUM CONDUIT SIZE AS REQUIRED TO ACCOMMODATE A MAXIMUM 40% CONDUCTOR FILL OF THE BRANCH CIRCUIT CONDUCTORS. WHERE NECESSARY, PROVIDE A JUNCTION BOX AT ACCESSIBLE CEILING SPACE, TO CONVERT THE LAST 15 FEET OF CONDUCTORS TO #10 AWG TO ACCOMMODATE TERMINATION OF CONDUCTORS AT WIRING DEVICES, LIGHTING FIXTURES, CIRCUIT BREAKER, ETC.
- INSTALL CU GROUND CONDUCTOR IN ALL BRANCH CIRCUITS FOR LIGHT FIXTURES AND POWER DEVICES.

120V BRANCH CIRCUIT VOLT DROP CONDUCTOR LENGTH CHART

LOAD IN VOLT AMPERES	LENGTH OF CONDUCTOR WIRE SIZE IN (GAUGE)			
	#12	#10	#8	#6
1200VA	74	121	183	284
1560VA	57	93	141	218
1800VA	49	81	122	189
1920VA	46	76	115	178
2340VA	X	62	94	146
2880VA	X	51	76	118
3000VA	X	48	73	114
3900VA	X	X	56	87
4800VA	X	X	46	71

- NOTES
- THIS CHART IS FOR COPPER CONDUCTORS ONLY.
 - THIS CHART ASSUMES AN 80% POWER FACTOR AND STEEL RACEWAYS.
 - 2019 CALIFORNIA ENERGY CODE, 130.5(c) ALLOWS A MAXIMUM COMBINED VOLTAGE DROP OF 5%. THIS CHART ASSUMES A MAXIMUM DROP OF 3% FOR FEEDERS. THIS CHART PROVIDES THE MAXIMUM LENGTH OF CONDUCTORS FOR LESS THAN 2% VOLTAGE DROP ON A BRANCH CIRCUIT AT GIVEN VA LOAD.
 - USE WIRE SIZE FROM THIS CHART UNLESS LARGER CONDUCTOR SIZES ARE NOTED ON THE DRAWINGS.
 - FOR VA VALUES NOT SHOWN USE NEXT HIGHEST VALUE FROM THE CHART

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-119979 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 03/30/2022



PETERS engineering
 consulting mechanical and electrical engineers
 7750 College Town Dr. ste.101
 Sacramento, CA 95826
 Tel (916) 447-2841
 www.peterseng.com
 Job no. 22-010



PLOT DATE: 3/29/2022

SHADE STRUCTURE AT JOHN BIDWELL
 ELEMENTARY SCHOOL
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

Revision

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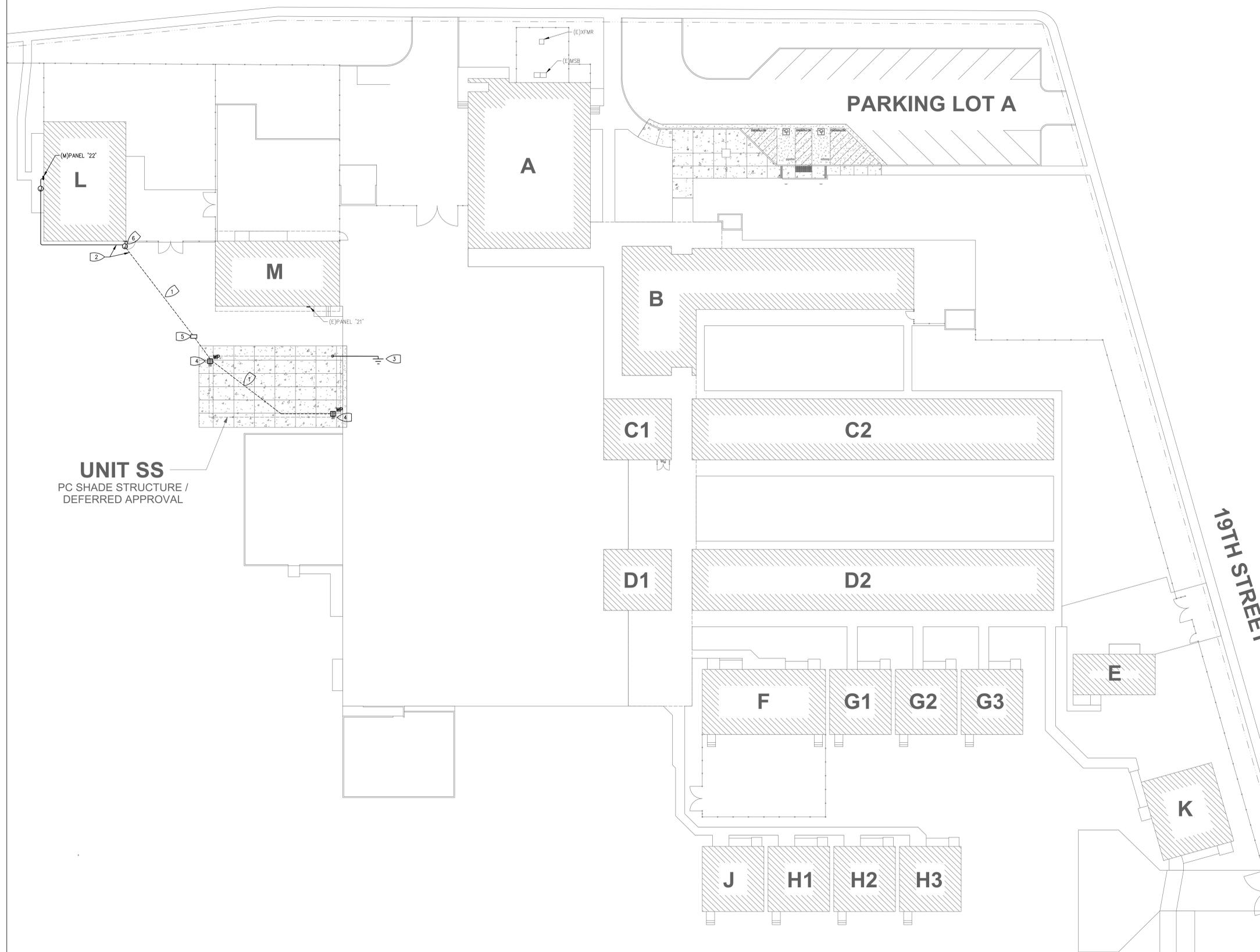
SYMBOLS, NOTES

PROJECT NO. 21-1504.02
 DATE: 3/1/22
 SHEET

65TH AVENUE

PARKING LOT A

19TH STREET



UNIT SS
PC SHADE STRUCTURE /
DEFERRED APPROVAL

SHEET NOTES:

1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR CLARITY ONLY. SEE ONE LINE DIAGRAM AND PANEL SCHEDULE ON SHEET **E2.1** FOR REFERENCE.

KEYED NOTES:

- 1 PROVIDE TRENCH FOR 24 INCH MINIMUM COVER. LOCATE AND PROTECT (E) UTILITIES, I.E. IRRIGATION, SEWER, DRAINAGE PIPES, ETC. SAW CUT AND PATCH BACK (E) CONCRETE. PROVIDE SAND TO COVER CONDUIT TO SIX(6) INCHES, THEN ADD TRACER TAPE. COMPLETE BACKFILL TO GRADE WITH NATIVE SOIL. COMPACT IN SIX(6) LIFTS. FINISH TO MATCH EXISTING. SEE DETAIL **3/E3.1**.
- 2 RUN CONDUIT HIGH ON WALL/OVERHANG TO WRAP AROUND BUILDING. DROP DOWN TO BELOW GRADE, AND TRENCH TO SHADE LOCATION, RUNNING CONDUIT TO INTERCEPT THE CHRISTY BOX ALONG THE WAY. PAINT EXPOSED CONDUIT TO MATCH (E) FINISH.
- 3 PROVIDE AT MINIMUM TWO(2) GROUND RODS, EACH 5/8" BY TEN(10) FEET LONG, CU, AT LEAST TEN(10) FEET APART. BOND TO METAL OF SHADE STRUCTURE. SEE DETAIL **5/E3.1**.
- 4 LOCKABLE, WEATHERPROOF RECEPTACLE TO HAVE A TWO-GANG BACK BOX WITH 1" THREADED PORT(S). MOUNT RECEPTACLES 36" ABOVE GRADE UNLESS SPECIFIED OTHERWISE. SEE DETAIL **4/E3.1**.
- 5 PROVIDE CHRISTY B1324 PULL BOX WITHIN FIVE(5) FT OF SHADE STRUCTURE. CHRISTY BOX TO HAVE HOLD DOWN BOLTS AND BE LABELED FOR POWER. SEE DETAIL **2/E3.1**.
- 6 PROVIDE J-BOX HIGH ON WALL.

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Job no. 22.010
consulting mechanical and electrical engineers

REGISTERED PROFESSIONAL ENGINEER
17247
Exp. 6/30/22
ELECTRICAL
STATE OF CALIFORNIA
PLOT DATE: 3/29/2022

**SHADE STRUCTURE AT JOHN BIDWELL
ELEMENTARY SCHOOL**

**SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA**

Revision

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**SITE PLAN -
ELECTRICAL**

PROJECT NO. 21-1504.02
DATE: 3/1/22
SHEET

E1.1

1 SITE PLAN - ELECTRICAL
SCALE: 1"=20'



SHEET NOTES:
 1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR CLARITY ONLY.

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KEYED NOTES:
 1. MODIFIED PANEL SERVES EQUIPMENT BEING ADDED IN THIS PROJECT. SEE PANEL SCHEDULE ON THIS SHEET FOR REFERENCE.



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PLOT DATE: 3/29/2022

MODIFIED

PANEL:	MANF: HOMELINE	MAIN:	200/2	SERVICE:	MOUNTING:	ENCLOSURE:	10K	AIC
22	TYPE: LOAD CENTER	BUSS:	200 AMP	120 /208 VOLT	SURFACE	WIDTH: 15"	100%	NEUT.
	FEEDER RATING:		225 AMP	1 Ø, 3W	DEPTH: 4.5"			

AØ	BØ	DIRECTORY	BRKR	CKT	CKT BRKR	DIRECTORY	AØ	BØ
		HVAC	70/2	1	2	70/2		
		DRYER	30/2	5	6	20/1		
		WATER HEATER	30/2	9	10	20/1		
360		RECEPTS - SHADE STRUCT. [S]	20/1	13	14	PFB		
		SPACE	PFB	15	16	PFB		
		SPACE	PFB	17	18	PFB		
		SPACE	PFB	19	20	PFB		
		SPACE	PFB	21	22	PFB		
		SPACE	PFB	23	24	PFB		
		SPACE	PFB	25	26	PFB		
		SPACE	PFB	27	28	PFB		
		SPACE	PFB	29	30	PFB		

NEW LOAD		DEMAND READINGS		PEAK DEMAND @ 125% + (N) LOAD		TOTAL DEMAND	
AØ	BØ	TOTAL PANEL VA	AMPS @125%	AMPS	VA	VA	AMPS
		360 VA	3.0	29.8	32.8 A	9830 VA	9315 VA
		0 VA	0.0	35.9	44.9 A	5385 VA	44.9 AMPS

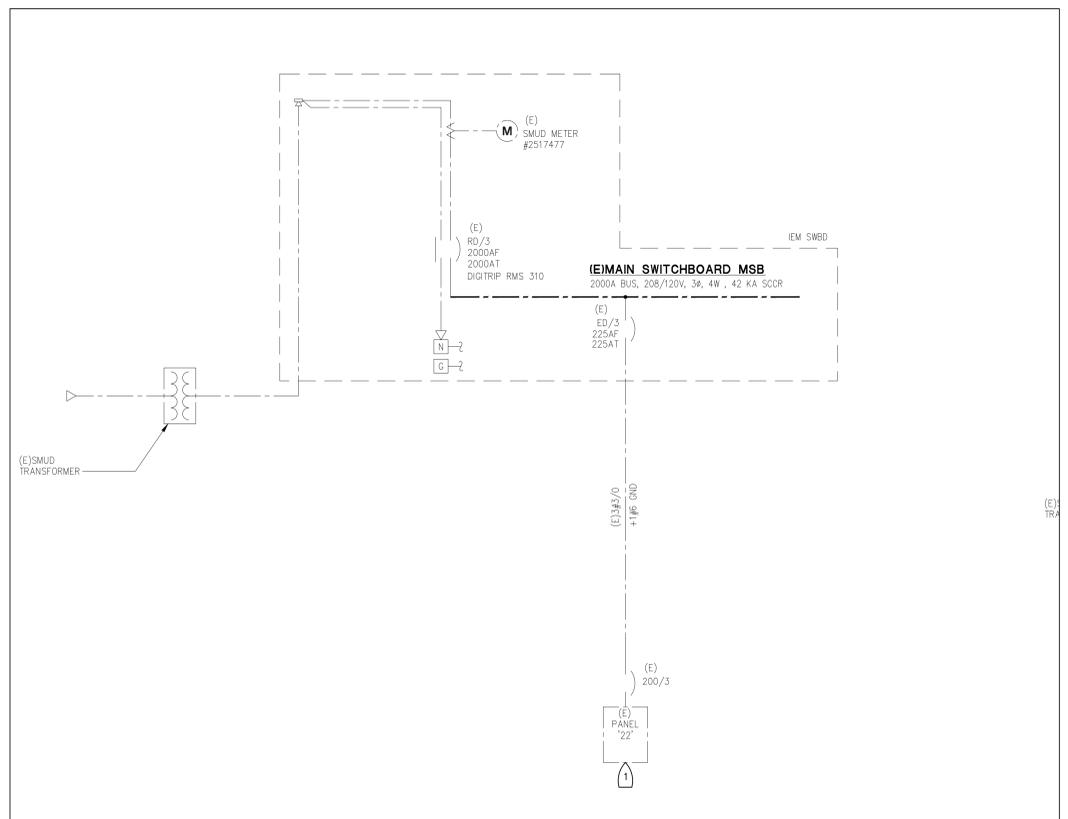
NOTES:
 1. FEEDER CONDUCTORS CONSIST OF 3#3/0 + 1#6 GND CU
 2. BRANCH BREAKERS ARE SQUARE-D TYPE HOM
 3. PROVIDE TYPE-WRITTEN PANEL DIRECTORY
 4. ALL NEW BREAKERS TO MATCH EXISTING TYPES
 5. PROVIDE NEW 20 AMP, SINGLE-POLE BREAKER

Voltage Drop Calculations Copper

Job Name: John Bidwell Elementary School - Shade Structure Job #: 22.010
 Date: 2/22/2022

VOLTAGE: 120 PHASE: 1 POWER FACTOR: 80% CONDUIT: Steel

FEEDER NUMBER	AMPS AT LOAD	KVA TOTAL	VOLTS AT LOAD	DISTANCE FEET	DISTANCE TOTAL	WIRES/ PHASE	LOAD/ WIRE	WIRE SIZE	WIRE FACTOR	VOLTS DROP	PERCENT VOLT DROP
RECEPT-1	3	0.4	119.09	152	152	1	3.00	10	1995	0.91	0.76%
RECEPT-2	2	0.2	118.89	66	218	1	1.50	10	1995	1.11	0.92%



1 ONE LINE DIAGRAM
 SCALE: NONE

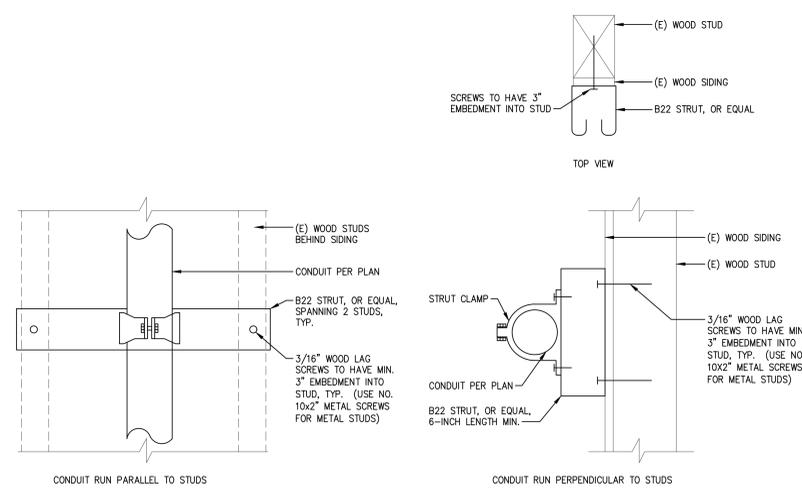
SHADE STRUCTURE AT JOHN BIDWELL
 ELEMENTARY SCHOOL
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
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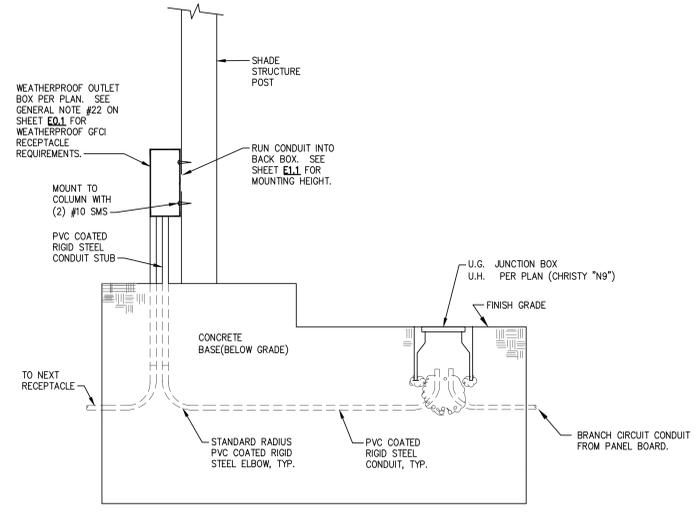
ONE LINE DIAGRAM

PROJECT NO. 21-1504.02
 DATE: 3/1/22
 SHEET **E2.1**

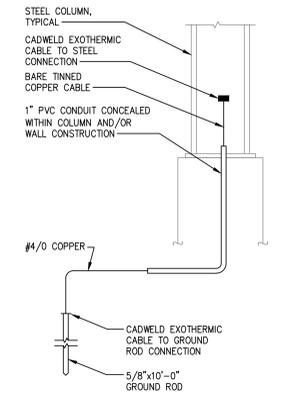


- NOTES:
- CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING TEN(10) FEET AND NOT MORE THAN THREE(3) FEET FROM THE OUTLET AND AT ANY POINT WHERE IT CHANGES DIRECTION.
 - PERFORATED STRAP AND PLUMBER'S TAPE SHALL NOT BE PERMITTED.
 - MAXIMUM CONDUIT AND CONDUCTOR WEIGHT IS 1.83LBS PER LINEAR FOOT.

7 CONDUIT MOUNTING DETAIL - STUD WALLS
 SCALE: NONE

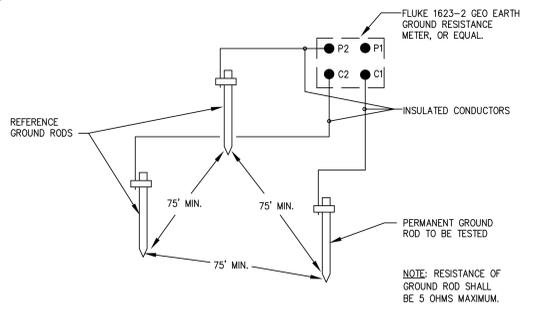


4 CONDUIT STUB IN POST DETAIL
 SCALE: NONE



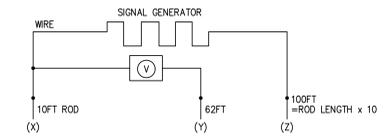
- NOTES:
- ALL GROUNDING CONNECTIONS SHALL BE IN CONFORMANCE WITH N.E.C. ARTICLE 250.
 - FOR ALL ADDITIONAL REQUIREMENTS REFER TO SPEC SECTIONS 26 05 26.

5 TYPICAL STEEL COLUMN & REBAR GROUNDING DETAIL
 SCALE: NONE



- FALL OF POTENTIAL TEST METHOD
 NOTES:
 1. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500KVA OR LESS: 10 OHMS.
 2. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500 TO 1000KVA: 5 OHMS.
 3. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY GREATER THAN 1000KVA: 3 OHMS.
 4. POWER DISTRIBUTION UNITS OR PANELBOARDS SERVING ELECTRONIC I.T. EQUIPMENT: 3 OHMS.
 5. MAN-HOLE GROUNDS: 10 OHMS.

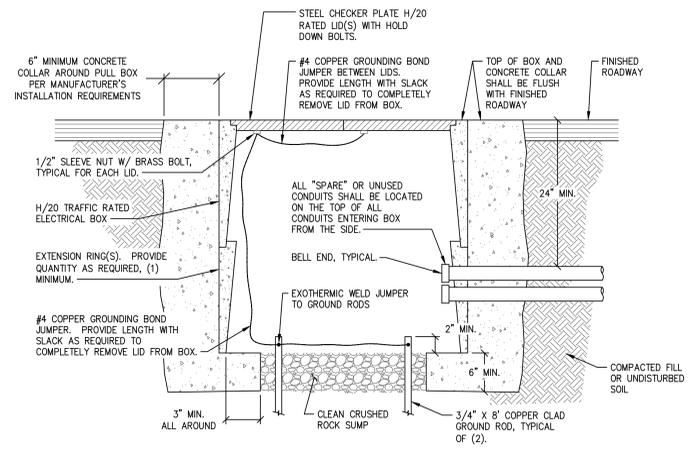
FALL OF POTENTIAL 3-POINT TEST:
 GROUND RING, I.E. 10 BY 10 RING, 14\"/>



AT THIS POINT, A KNOWN CURRENT IS APPLIED ACROSS X & Z, WHILE THE RESULTING VOLTAGE IS MEASURED ACROSS X & Y. OHMS LAW APPLIED R=V/I. THEN (Y) MOVED TO 2 TIMES THE DIAGONAL LENGTH, THEN MOVE OUT TO 3 TIMES(3X), 4X, ... 9X THE DIAGONAL LENGTH TO COMPLETE THE 3 POINT TEST WITH A TOTAL OF NINE RESISTANCE MEASUREMENTS.

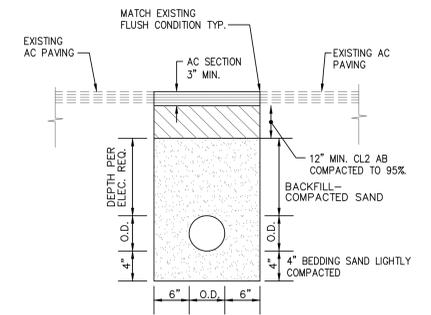
6 METHOD OF TESTING GROUND RODS DETAIL
 SCALE: NONE

1 DETAIL REMOVED
 SCALE: NONE



- NOTES:
- PROVIDE H/20 TRAFFIC RATED BOXES IN ALL LOCATIONS WITH VEHICLE TRAFFIC
 - CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR H/20 TRAFFIC RATING REQUIREMENTS AS PART OF THE SUBMITTALS.

2 TYPICAL H/20 TRAFFIC RATED PULL BOX
 SCALE: NONE



3 TYPICAL TRENCH DETAIL
 SCALE: NONE

DESIGN CRITERIA	
DESCRIPTION	DESIGN VALUES
DEAD AND LIVE LOADS	
ROOF LIVE LOAD	20 PSF
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME)	5 PSF MAX
ROOF PANEL DEAD LOAD	M=1.1 PSF, G=1.2 PSF, S=1.3 PSF
COLLATERAL DEAD LOAD	M=3.9 PSF, G=3.8 PSF, S=3.7 PSF
ROOF SNOW LOAD	
GROUND SNOW LOAD, P _s	20 PSF
RISK CATEGORY	I
ROOF SNOW LOAD: SLOPED, P _s	20 PSF
SITE APPLICATION DSA REVIEWER SHALL VERIFY THE STRUCTURE BE LOCATED AT LEAST 20 FEET FROM ADJACENT STRUCTURE	
SNOW LOAD SLOPE FACTOR, C _s	1.0
SNOW EXPOSURE FACTOR, C _e	1.0
SNOW LOAD IMPORTANCE FACTOR, I _s	1.0
THERMAL FACTOR, C _t	1.2
WIND DESIGN	
BASIC WIND SPEED (3 SECOND GUST), V _{ult}	100 MPH
RISK CATEGORY	I
EXPOSURE CATEGORY	C
FACTORS: K _d , K _e , K _z	0.85, 1.0, 0.85
I _h = 0.00256 K _d K _e K _z V ² FOR ALL EAVE HEIGHTS (8', 10' & 12')	18.50 PSF
C _{mf} PER ASCE FIGURE 27-4-5 ROOF ANGLE 18.43° - CLEAR / OBSTRUCTED	CASE A (1.1 / -1.2) CASE B (0.01 / -0.09)
C _{mf} PER ASCE FIGURE 27-4-5 ROOF ANGLE 18.43° - CLEAR / OBSTRUCTED	CASE A (-0.17 / -1.09) CASE B (-0.96 / -1.65)
C _{mf} PER ASCE FIGURE 27-4-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED	CASE A (-0.6 / -0.9) CASE B (-0.5 / -0.5)
COMPONENTS & CLADDING - C _u (PRESSURE/SUCTION) CLEAR / OBSTRUCTED	ZONE 3 - (2.29 / -2.11) / (1.0 / -3.0) ZONE 2 - (1.77 / -1.63) / (0.8 / -2.3) ZONE 1 - (1.15 / -1.05) / (0.5 / -1.5)
SEISMIC DESIGN	
LATERAL FORCE RESISTING SYSTEM	STEEL - ORDINARY CANTILEVER COLUMN
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
SEISMIC IMPORTANCE FACTOR, I _e	1.0
SEISMIC SITE CLASS	D
MCE _h SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S _h	0.6
MCE _s SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S ₁	0.90
SHORT PERIOD SITE COEFFICIENT, F _a	1.20
LONG PERIOD COEFFICIENT, F _v	1.70
FUNDAMENTAL PERIOD OF THE STRUCTURE, T	0.152 s
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S _{DS}	2.08
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S _{DS} - USED TO DETERMINE C _s (WITH CAP PER ASCE-7 12.8.1.3)	2.08 * 0.70 = 1.456
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-4 PERIODS, S ₀₁	1.02
SEISMIC DESIGN CATEGORY	E
RESPONSE MODIFICATION FACTOR, R	1.25
OVERSTRENGTH FACTOR, Ω	1.25
REDUNDANCY FACTOR, ρ	1.0
HORIZONTAL OR VERTICAL IRREGULARITIES	NONE
SEISMIC RESPONSE COEFFICIENT, C _s (20' WIDE, 30' WIDE, 40' WIDE)	1.16
DESIGN BASE SHEAR, V (20' WIDE, 30' WIDE, 40' WIDE)	12.73 PSF, 13.41 PSF, 14.65 PSF
ALLOWABLE SOIL BEARING FOR FOUNDATIONS	VARIES - SEE FOUNDATION CHARTS
FLOOD DESIGN - DESIGN IS ASSUMED TO NOT BE IN FLOOD HAZARD AREA	
IF PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED & SIGNED FROM A SOILS ENGINEER IS REQUIRED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED.	

GENERAL:

- GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE THEY MAY CONFLICT WITH DETAILS AND NOTES ON OTHER SHEETS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER FOR THIS PROJECT.
- WORK SHALL CONFORM TO THE REQUIREMENTS, AS AMENDED TO DATE, OF THE LATEST ADOPTED EDITION OF THE CBC, C.A.C., TITLE 24, AND ALL OTHER LOCAL, STATE AND FEDERAL REGULATIONS.
- OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT PRIOR TO PROCEEDING WITH ANY WORK INVOLVED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS, ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
- THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING, BUT NOT LIMITED TO, BRACING, TEMPORARY SUPPORTS, AND SHORING. OBSERVATION VISIT TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCHITECT/ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONSTRUCTION AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER, WHETHER OF MATERIAL OR WORK, ARE FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS, BUT DO NOT GUARANTEE CONSTRUCTION.
- ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS.
- CONFORM TO APPLICABLE CAL/OSHA CONSTRUCTION SAFETY REGULATIONS FOR ALL WORK PERFORMED DURING CONSTRUCTION. JOB SITE SAFETY IS STRICTLY THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ARCHITECT/ENGINEER OR OWNER.
- THE ENGINEER AND THEIR CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, HANDLING, REMOVAL OR DISPOSAL OF HAZARDOUS MATERIALS AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
- SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, OR IF A CHANGE IN THE SCOPE OF WORK IS PROPOSED, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED CHANGE(S) SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
- THE SCHOOL DISTRICT INSPECTOR ON RECORD SHALL INSPECT AND APPROVE THE ERCTED FRAME PRIOR TO ROOF INSTALLATION.
- SEE REQUIREMENTS FOR LOCATION IN ANY FIRE HAZARD SEVERITY ZONE FOR WILDLAND URBAN INTERFACE AREAS (WUI) AS SPECIFIED IN THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE. PROVIDE PROTECTION AND DETAILS OF ALL AREAS COMPLYING WITH THE WUI REQUIREMENTS.
- LOCATING THIS STRUCTURE CLOSER THAN 20 FEET TO OTHER STRUCTURES MAY AFFECT THE ALLOWABLE AREA FOR THE EXISTING CONSTRUCTION PER THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE.
- VEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE). DO NOT SCALE THESE DRAWINGS.

STRUCTURAL AND MISCELLANEOUS STEEL:

- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERCTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED BY THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
- PIPE SECTIONS SHALL CONFORM TO ASTM A53, F_y = 35 KSI, GRADE B OR A501 UNLESS NOTED OTHERWISE.
- STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A-500, GRADE B (OR C), F_y = 46 KSI (MIN).
- IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESS CAN BE INCREASED ABOVE WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
- ALL CHANNELS, ANGLES, AND MISC. STEEL SHALL CONFORM TO ASTM A-36, F_y = 36 KSI.
- ALL PLATE STEEL SHALL CONFORM TO ASTM A-572, F_y = 50 KSI.
- ALL COLD FORM STEEL SHALL CONFORM TO ASTM A-653, C5 = TYPE B, F_y = 50 KSI.
- STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2202A.1.
- ALL ROOF DECKS SHALL HAVE KYNAR 500 METAL COATING.
- ALL ROOF DECKS SHALL CONFORM TO ASTM A-36, F_y = 50 KSI.

WELDING:

- ALL WELDING SHALL COMPLY WITH AWS D1.1 SPECIFICATIONS AND SHALL BE DONE BY AWS QUALIFIED WELDERS CERTIFIED FOR THE TYPE OF WELDING TO BE PERFORMED AS REQUIRED BY DSA.
- ALL WELDING SHALL BE DONE BY GAS METAL ARC PROCESS WITH E70XX ELECTRODES, FLUX CORE ARC WELD SHALL CONFORM TO CHARPY NOTCH TOUGHNESS RATING OF 20 ft-lb @ (0° F).
- ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO ENSURE PROPER MATERIAL ID AND WELDING.
- WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND SPECIFICATIONS.

BOLTING:

- ALL BOLTS SHOWN ON THESE DRAWINGS ARE ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS (UNO), WITH THE NUTS CONFORMING TO ASTM A-563.
- HIGH STRENGTH BOLTS SHALL BE VERIFIED AND INSPECTED PER CBC 1705A2.1.
- BEFORE ERCTING THE FRAME, VERIFY ALL BOLTS AND NUTS ARE CLEAN OF DEBRIS AND BURRS - INCLUDING THE HARDWARE ALREADY FASTENED INSIDE THE MEMBERS. CHASING SOME OF THE BOLTS AND NUTS MAY BE REQUIRED.
- HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F-436.
- THE BOLTING INSTALLATION REQUIREMENTS OUTLINED BELOW ARE CRITICAL TO THE STRUCTURE'S DESIGN AND PERFORMANCE. THE INSTALLER IS REQUIRED TO COORDINATE THIS PHASE OF CONSTRUCTION WITH THE SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD PRIOR TO THE ERCTING OF THE FRAME. ALL BOLTS SHALL BE INSTALLED AND INSPECTED PER THE APPLICABLE VERSION OF AISC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", CBC 1705A.2.1; AISC 341-16 J7; AISC 360-16 N5.6.

APRENTENSIONED JOINTS MUST BE INSTALLED AND INSPECTED TO MEET ONE OF THE FOLLOWING REQUIREMENTS:

- TURN-OFF-NUT PRETENSIONING
- CALIBRATED WRENCH PRETENSIONING
- DIRECT-TENSION-INDICATOR PRETENSIONING (CONTRACTOR RESPONSIBLE FOR PURCHASE OF REQUIRED WASHERS)

FOUNDATIONS:

- ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER CBC TABLE 1806A, UNLESS NOTED OTHERWISE.
- PER CBC SECTION 1803A.2, GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONER SEISMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2.
- FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D-1557 OR AS RECOMMENDED BY THE GEO-TECH ENGINEER. FLOODING NOT PERMITTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
- MINIMUM SETBACK FROM TOE OF SLOPE ON AN ASCENDING SLOPE SHALL BE 15 FEET AND MINIMUM SETBACK FROM TOE OF SLOPE ON A DESCENDING SLOPE SHALL BE 40 FEET.
- PER CBC SECTION 1803A.6, GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONER SEISMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS.
- GEOTECHNICAL REPORTS ARE TO COMPLY WITH DSA IR A-4 PER IR-7 SECTION 1.8
- SITE SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION IS USING OTHER THAN CLASS 5 SOIL, PER DSA IR PC-7
- LATERAL BEARING HAS BEEN INCREASED PER CBC 1806A.3.4 & HAS BEEN DESIGNED FOR P-DELTA EFFECTS

CONCRETE:

- MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

STRENGTH F _c (28 DAYS)	W/C RATIO (NON-AIR ENTRAINED)	W/C RATIO (AIR ENTRAINED)	SUMP (in)	UNIT WEIGHT (NORMAL WEIGHT)
4500 PSI	0.44	0.35	3"	150 PCF
- CONCRETE MIX DESIGN PARAMETERS ARE GOOD FOR EXPOSURE CATEGORIES F0, F1 & F2. THE AIR ENTRAINMENT FOR THESE CATEGORIES SHALL BE AS FOLLOWS: F0-0, F1-4.5, F2-6
- AGGREGATES SHALL CONFORM TO THE ASTM C-33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.05% MAX AGGREGATE SIZE = 1".
- CEMENT SHALL CONFORM TO ASTM C-150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER PLACEMENT. ALTERNATE METHODS WILL BE APPROVED IF SATISFACTORY PERFORMANCE CAN BE ASSURED.
- CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
- CONCRETE DURABILITY SHALL BE PER CBC 190A.1 & ACI 318-14 CHAPTER 19.
- CONCRETE SHALL BE TESTED PER CBC 1903A, TABLE 1705A.3. AND ACI 318-14 SECTION 26.12.

STEP 10: IDENTIFY PROJECT NAME AND SCHOOL DISTRICT

PROJECT NAME:	SCHOOL DISTRICT:
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STEP 1	FRAME DIMENSIONS	
	SUGGESTED	OTHER
FRAME WIDTH	[] 20' [X] 30' [] 40'	[] (40' MAX)
FRAME LENGTH	[] 44' [X] 64' [] 84' [] 104'	[] (NO MAX)

STEP 2	ROOF PANEL	
	ROOF PANEL TYPE	DESIGN OPTIONS
	[X] M [] G [] S	

STEP 3	PROJECT SITE - S _h ACCELERATION (g)	
	S _h REGION	MAX DEAD LOAD
	0.642	

STEP 4	S _h REGION	
	DESCRIPTION	MAX DEAD LOAD
	X	0 < S _h <= 2.14
		2.14 < S _h <= 2.50
		2.50 < S _h <= 2.75
		2.75 < S _h <= 3.00
		S _h > 3.73 MAX

STEP 5	TOTAL ROOF DEAD LOAD	
	DEAD LOAD	EXAMPLES
	1.1 PSF	M=1.1PSF, G=1.2PSF, S=1.3PSF (SEE STEP 2)
	0 PSF	LIGHTING, ETC
	1.1 PSF	ADD ROOF DECK AND COLLATERAL LOADS (MAX 5 PSF)

CONSTRUCTION NOTES

- A DSA-CERTIFIED CLASS 3 PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT.
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS ARE THAT ALL THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR, SHOULD ANY EXISTING CONDITIONS SUCH AS TERRORISM OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR)
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES

REINFORCING STEEL:

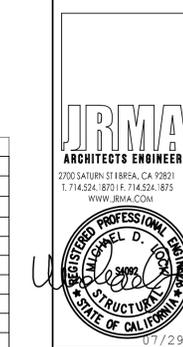
- REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, AS FOLLOWS:
GR 60: (#4 BARS AND LARGER)
GR 40: (#3 BARS)
- DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
- MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
A. CAST AGAINST EARTH3"
B. CAST AGAINST FORM BELOW GRADE2"
C. FORMED SLABS (#1 BAR & SMALLER)3/4"
D. SLABS ON GRADE (FROM TOP OF SLAB)1"
- BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
- REINFORCING SHALL BE LAP SPICED PER ACI 318-14 SECTION 25.5.
- PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
- WELDING OF REINFORCING IS NOT ALLOWED.
- REINFORCING STEEL SHALL BE INSPECTED PER CBC 1705A.3.

POWDER-COAT FINISH SYSTEM:

- ALL BUILDINGS THAT HAVE A POWDER-COATED FINISH SHALL MEET THE FOLLOWING SPECIFICATIONS:
- THE STEEL FRAME SHALL BE SHOT-BLASTED TO A NEAR WHITE CONDITION PER SSPC-10 SPECIFICATIONS.
 - THE STEEL SHALL BE WASHED IN A ZINC PHOSPHATE IN AN ANTIMINE EIGHT STAGE ELECTRO DEPOSITION PRE-TREATMENT PROCESS.
 - IMMEDIATELY FOLLOWING PRE-TREATMENT THE STEEL SHALL BE TOTALLY IMMERSED IN A LIQUID EPOXY PRIMER-E-COAT AND COATED TO A UNIFORM THICKNESS OF A MINIMUM OF 0.7 TO 0.9 MILS. THE E-COATING SHALL PROVIDE A MINIMUM OF 1000 HOURS OF SALT SPRAY CORROSION PROTECTION TO THE STEEL.
 - THE STEEL SHALL THEN HAVE A TIGC POLYESTER COLOR COAT APPLIED OVER THE E-COATING SURFACE.
 - THE COLOR COAT SHALL THEN HAVE A CLEAR TIGC COATING APPLIED TO SEAL IN THE COLOR COAT AND RESIST ULTRAVIOLET LIGHT, TO HELP PREVENT FADING.
 - THE FINISH THICKNESS OF THESE THREE APPLICATIONS SHALL BE A MINIMUM OF 8 TO 12 MILS.
 - ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES, ETC.) NOT POWDER-COATED SHALL BE PAINTED WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE" AND THE "AISC SPECIFICATION SECTION M3(UNLESS NOTED OTHERWISE).

ABBREVIATIONS:	MPH	MILES PER HOUR
ACI	AMERICAN CONCRETE INSTITUTE	
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MULTI-RIB ROOF PANEL (MCELROY)
ASM	ASSEMBLY (INTERNAL REFERENCE)	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR TESTING AND MAT'LS	NUMBER
AWS	AMERICAN WELDING SOCIETY	ON CENTER
CBC	CALIFORNIA BUILDING CODE	OSHA OCCUPATIONAL HEALTH AND SAFETY ADMIN
C/P	COMPLETE JOINT PENETRATION	PCF POUNDS PER CUBIC FOOT
CLR	CLEAR	PJ PRETENSIONED JOINT
DEG	DEGREE	PLCS PLACES
DIA	DIAMETER	PLT PLATE
DM	DIMENSION	PSF POUNDS PER SQUARE FOOT
DSA	DIVISION OF THE STATE ARCHITECT	PSI POUNDS PER SQUARE INCH
EQ	EQUAL	QTY QUANTITY
FT	FEET	REF REFERENCE
GA	GAGE	SQ SQUARE
IN	INCHES	SS STANDING SEAM ROOF PANEL (MCELROY)
KSI	KIPS PER SQUARE INCH	TYP TYPICAL
MAX	MAXIMUM	UNO UNLESS NOTED OTHERWISE
MIN	MINIMUM	USGS U.S. GEOLOGICAL SURVEY
MISC	MISCELLANEOUS	W/ WITH

ICON STD	RH/DSA-PC
DRAWN BY	ANGEL
DATE	4/2/2021
REV	
REV DATE	



APPROVED
DIV. OF THE STATE ARCHITECT
APP:04-120013 PC
REVIEWED FOR
SS [X] FLS [X] ACS [X] CG [X]
DATE: 08/06/2021

STRUCTURAL SEPARATION		DEFLECTIONS ARE FOR (1) STRUCTURE		
ALL DEFLECTIONS SHOWN ALSO INCLUDE THE P-DELTA ROTATION PER IR PC-7		SOIL CLASSIFICATION PER TABLE 1806A.2		
MAXIMUM DRIFT	SIDE COLUMNS	Soil Class 5	Soil Class 4	Soil Class 3
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)		2.40	2.55	2.65
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)		2.25	2.35	2.45
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)		2.20	2.25	2.30
MINIMUM SEPARATION (S _h = C _s S _h) C _s = 1.25				
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)		3.00	3.19	3.31
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)		2.81	2.94	3.06
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)		2.75	2.81	2.75
MAXIMUM DRIFT	CORNER COLUMNS	Soil Class 5	Soil Class 4	Soil Class 3
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)		2.20	2.30	2.40
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)		2.30	2.45	2.50
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)		2.40	2.55	2.65
MINIMUM SEPARATION (S _h = C _s S _h) C _s = 1.25				
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)		2.75	2.88	3.00
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)		2.88	3.06	3.13
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)		3.00	3.19	3.31
MAXIMUM DRIFT	END COLUMNS	Soil Class 5	Soil Class 4	Soil Class 3
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)		1.80	1.70	1.75
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)		2.00	2.45	2.25
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)		2.00	2.30	2.80
MINIMUM SEPARATION (S _h = C _s S _h) C _s = 1.25				
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)		2.00	2.13	2.19
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)		2.50	3.06	2.81
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)		3.13	2.88	3.50

ARCHITECTURAL REQUIREMENTS:		
DESCRIPTION	DESIGN VAULES	
TYPE OF CONSTRUCTION	I-B	
OCCUPANCY CLASSIFICATION	A-3	
NUMBER OF STORES	1	
FIRE SPRINKLER SYSTEM	NOT BY CON/WEIGHT NOT INCLUDED IN DESIGN	

RELATED BUILDING CODES AND STANDARDS

- TITLE 24 CODES:
- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC).....(PART 1, TITLE 24, CCR)
 - 2019 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1, AND 2.(PART 2, TITLE 24, CCR)
 - 2019 CALIFORNIA ELECTRICAL CODE.....(PART 3, TITLE 24, CCR)
 - 2019 CALIFORNIA MECHANICAL CODE (CMC).....(PART 4, TITLE 24, CCR)
 - 2019 CALIFORNIA PLUMBING CODE (CPC).....(PART 5, TITLE 24, CCR)
 - 2019 CALIFORNIA ENERGY CODE.....(PART 6, TITLE 24, CCR)
 - 2019 CALIFORNIA FIRE CODE (CFC)(PART 9, TITLE 24, CCR)
 - 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE.....(PART 11, TITLE 24, CCR)
 - 2019 CALIFORNIA REFERENCE STANDARDS CODE.....(PART 12, TITLE 24, CCR)

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:
2019 CBC, CHAPTER 35
2019 CFC, CHAPTER 80

SCOPE OF WORK NARRATIVE
THESE DRAWINGS ILLUSTRATE THE FABRICATION AND INSTALLATION REQUIREMENTS FOR A FREE-STANDING PREFABRICATED STEEL SHADE STRUCTURE. THE ENTIRE STRUCTURAL SYSTEM IS COMPRISED OF HOLLOW STRUCTURAL STEEL MEMBERS SUPPORTED BY CONCRETE FOUNDATIONS. THE FLEXIBILITY INCLUDED HEREIN ALLOWS THE STRUCTURE TO COMPLY WITH A WIDE VARIETY OF PROJECT SITES AND LOADING REQUIREMENTS.

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

- PER TITLE 24, PART 1

2019 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 special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector.

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

Table with 2 columns: 1. TYPE, 2. PERFORMED BY. Rows include Continuous, Periodic, and Test inspection types and their corresponding performed by roles (CE, LOR, PI, SI).

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Table 1705A.6: 7. CAST-IN-PLACE CONCRETE. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include material verification, reinforcement steel, concrete curing, and test concrete.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

Table 1705A.3: 23. ANCHOR BOLTS AND ANCHOR RODS. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include anchor bolts and threaded rod not used for foundation anchorage.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Geotechnical Reports: Project has a geotechnical report, or CDs indicate soils special inspection is required by CE

Table 1705A.6: 1. GENERAL. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Row includes verification of site preparation and foundation excavation.

Table 1705A.6: 2. SOIL COMPACTION AND FILL. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include soil classification, material testing, and soil compaction.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

Table 1705A.3: 17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSE. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include material verification, high-strength bolts, and steel fabrication.

Table 1705A.3: 18. HIGH-STRENGTH BOLTS: RCSC 2. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Row includes material verification and testing of high-strength bolts.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SIGNATURE), 2019 CBC

Signature fields for Architect or Engineer in general responsible charge, Name of Structural Engineer (When structural design has been delegated), and Signature of Architect or Structural Engineer.

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Table 1705A.8: 4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS). Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Row includes compaction testing.

Table 1705A.8: 4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS). Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include inspection of drilling operations, pier verification, and concrete piers.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

Table 1705A.2: 19. WELDI. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include high-strength bolts, bearing-type connections, and pretensioned connections.

Table 1705A.2: 19. WELDI. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include verification of materials, equipment, welder qualifications, and welder material manufacturer's certificate.

DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

- 1. Soils Testing and Inspection: Geotechnical Verified Report Form DSA 293
2. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
3. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
4. High-Strength Bolt Installation Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Table 1705A.8: 5. RETAINING WALLS. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include placement, compaction and inspection of backfill, and placement of soil reinforcement.

Table 1705A.8: 6. OTHER SOIL. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include soil improvements and inspection of soil improvements.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

Table 1705A.3: 19.1 SHOP WELDING. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include inspection of groove welds, fillet welds, and reinforcement steel.

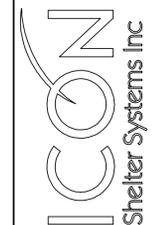
Table 1705A.3: 23. ANCHOR BOLTS AND ANCHOR RODS. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include anchor bolts and threaded rod not used for foundation anchorage.

ICONS STD: RH/DSA-PC
DRAWN BY: ANGEL
DATE: 4/2/2021
REV:
REV DATE:



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DIV. OF THE STATE ARCHITECT
APP: 04-120013 PC
REVIEWED FOR
SS [x] FLS [x] ACS [x] CG [x]
DATE: 08/06/2021

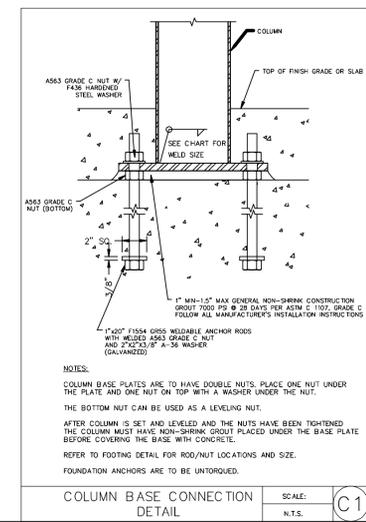
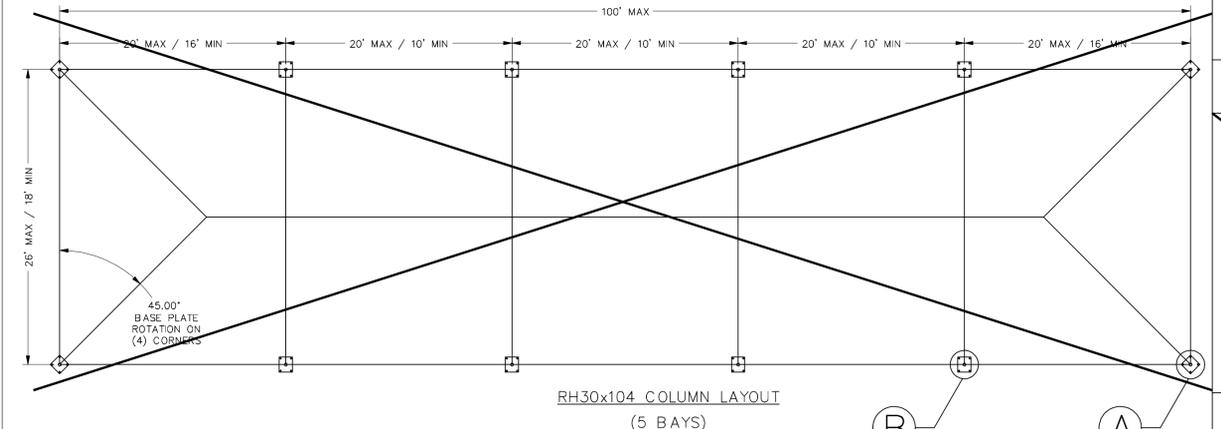
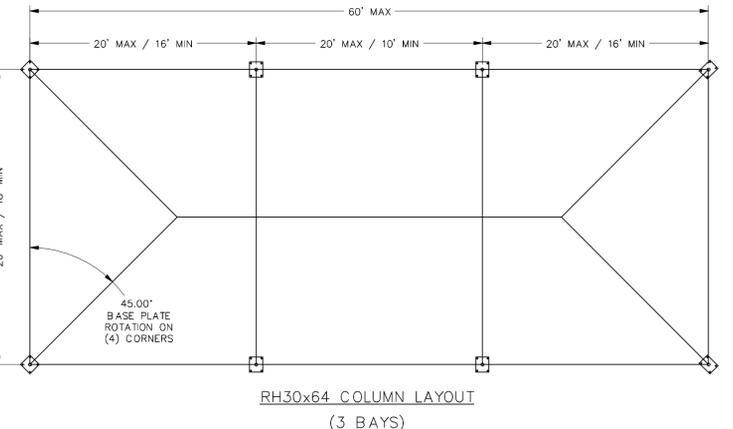
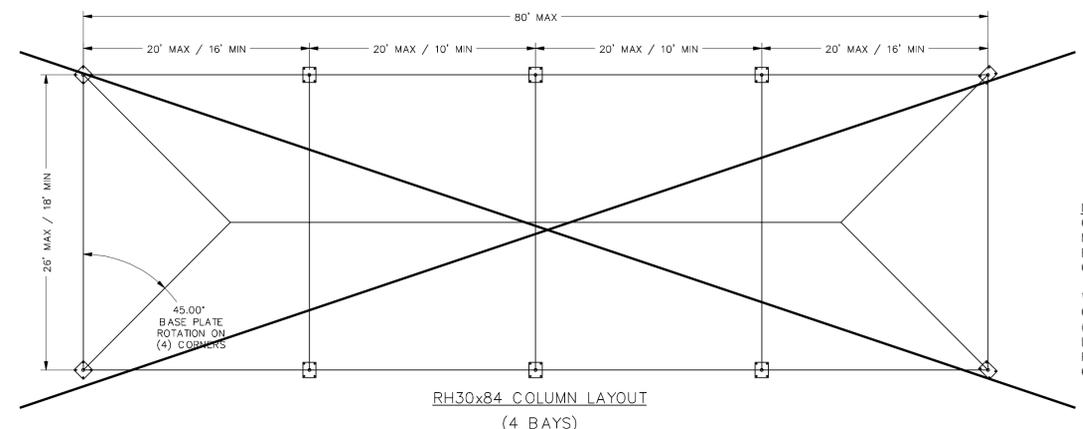
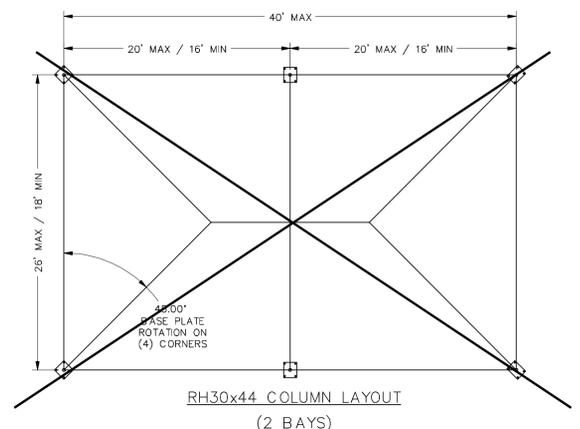
DSA 103



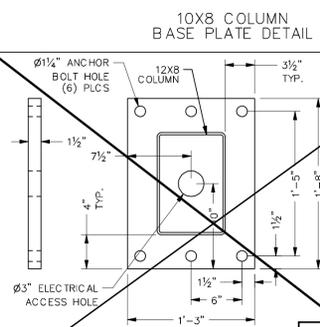
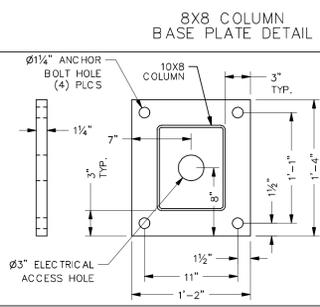
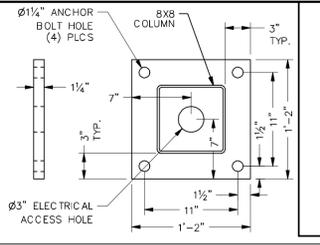
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HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

LS1.1

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.



BASE PLATE LOCATION	
DETAIL A	DETAIL B
8'	BP1
10'	BP1
12'	BP2



NOTES:
 COLUMN SIZE AND LOCATION WILL VARY DEPENDING ON MODEL TYPE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL FOR CORRECT PLACEMENT AND SIZE.
 WHERE CONCRETE SLAB SPECIFIED PORTLAND CEMENT CONCRETE PAVING SHALL HAVE A MEDIUM SALTED (MEDIUM BROOM) FINISH ON ALL SURFACES SLOPED LESS THAN 6% AND SLIP RESISTANT (HEAVY BROOM FINISH) ON ALL SURFACES SLOPED GREATER THAN 6% CBC SECTION 1133B.7.1

ICON STD RH/DSA-PC
 DRAWN BY ANGEL
 DATE 4/2/2021
 REV
 REV DATE

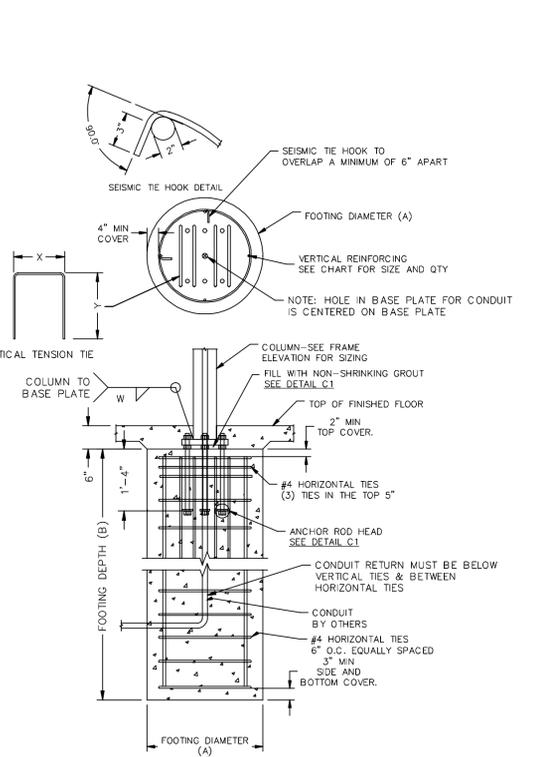
JRMA
 ARCHITECTS ENGINEERS
 2700 SATURN ST IRRGA, CA 92621
 T. 714.524.1870 F. 714.524.1875
 WWW.JRMA.COM

REGISTERED PROFESSIONAL ENGINEER
 ANGELO D. FORNARI
 STATE OF CALIFORNIA
 17/29/2021

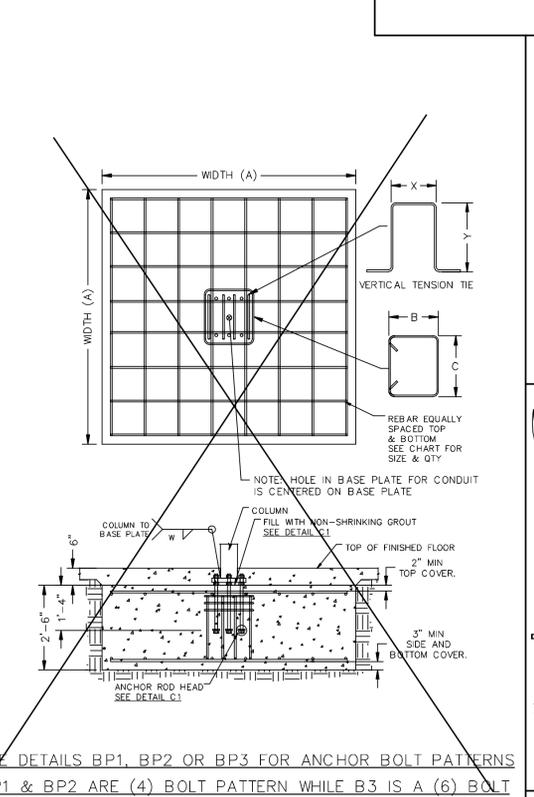
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 APP-04-120013 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 08/06/2021

30' WIDE RECTANGULAR HIP

RH30 - PIER				
8' height - Corner Columns				
Soil Class	Vertical Rebar Qty	Vertical Rebar Size	Rebar Size	Weld
Soil Class 5 - 1500 psf Bearing	24	114	6	1/4
Soil Class 4 - 2000 psf Bearing	24	98	6	1/4
Soil Class 3 - 3000 psf Bearing	24	92	6	1/4
8' height - Side Columns				
Soil Class 5 - 1500 psf Bearing	36	144	12	6
Soil Class 4 - 2000 psf Bearing	30	132	8	6
Soil Class 3 - 3000 psf Bearing	30	118	8	6
10' height - Corner Columns				
Soil Class 5 - 1500 psf Bearing	24	120	6	1/4
Soil Class 4 - 2000 psf Bearing	24	102	6	1/4
Soil Class 3 - 3000 psf Bearing	24	92	6	1/4
10' height - Side Columns				
Soil Class 5 - 1500 psf Bearing	36	136	12	6
Soil Class 4 - 2000 psf Bearing	30	124	8	6
Soil Class 3 - 3000 psf Bearing	30	112	8	6
12' height - Corner Columns				
Soil Class 5 - 1500 psf Bearing	30	132	8	6
Soil Class 4 - 2000 psf Bearing	30	112	8	6
Soil Class 3 - 3000 psf Bearing	30	102	8	6
12' height - Side Columns				
Soil Class 5 - 1500 psf Bearing	36	140	12	6
Soil Class 4 - 2000 psf Bearing	36	120	12	6
Soil Class 3 - 3000 psf Bearing	36	108	12	6



RH30 - SPREAD												
8' height - Corner Columns												
Soil Class	Vertical Rebar Qty	Vertical Rebar Size	Rebar Size	Weld								
Soil Class 5 - 1500 psf Bearing	24	114	6	1/4								
Soil Class 4 - 2000 psf Bearing	24	98	6	1/4								
Soil Class 3 - 3000 psf Bearing	24	92	6	1/4								
8' height - Side Columns												
Soil Class 5 - 1500 psf Bearing	36	144	12	6								
Soil Class 4 - 2000 psf Bearing	30	132	8	6								
Soil Class 3 - 3000 psf Bearing	30	118	8	6								
10' height - Corner Columns												
Soil Class 5 - 1500 psf Bearing	24	120	6	1/4								
Soil Class 4 - 2000 psf Bearing	24	102	6	1/4								
Soil Class 3 - 3000 psf Bearing	24	92	6	1/4								
10' height - Side Columns												
Soil Class 5 - 1500 psf Bearing	36	136	12	6								
Soil Class 4 - 2000 psf Bearing	30	124	8	6								
Soil Class 3 - 3000 psf Bearing	30	112	8	6								
12' height - Corner Columns												
Soil Class 5 - 1500 psf Bearing	30	132	8	6								
Soil Class 4 - 2000 psf Bearing	30	112	8	6								
Soil Class 3 - 3000 psf Bearing	30	102	8	6								
12' height - Side Columns												
Soil Class 5 - 1500 psf Bearing	36	140	12	6								
Soil Class 4 - 2000 psf Bearing	36	120	12	6								
Soil Class 3 - 3000 psf Bearing	36	108	12	6								



SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
 BP1 & BP2 ARE (4) BOLT PATTERN WHILE BP3 IS A (6) BOLT

SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
 BP1 & BP2 ARE (4) BOLT PATTERN WHILE BP3 IS A (6) BOLT

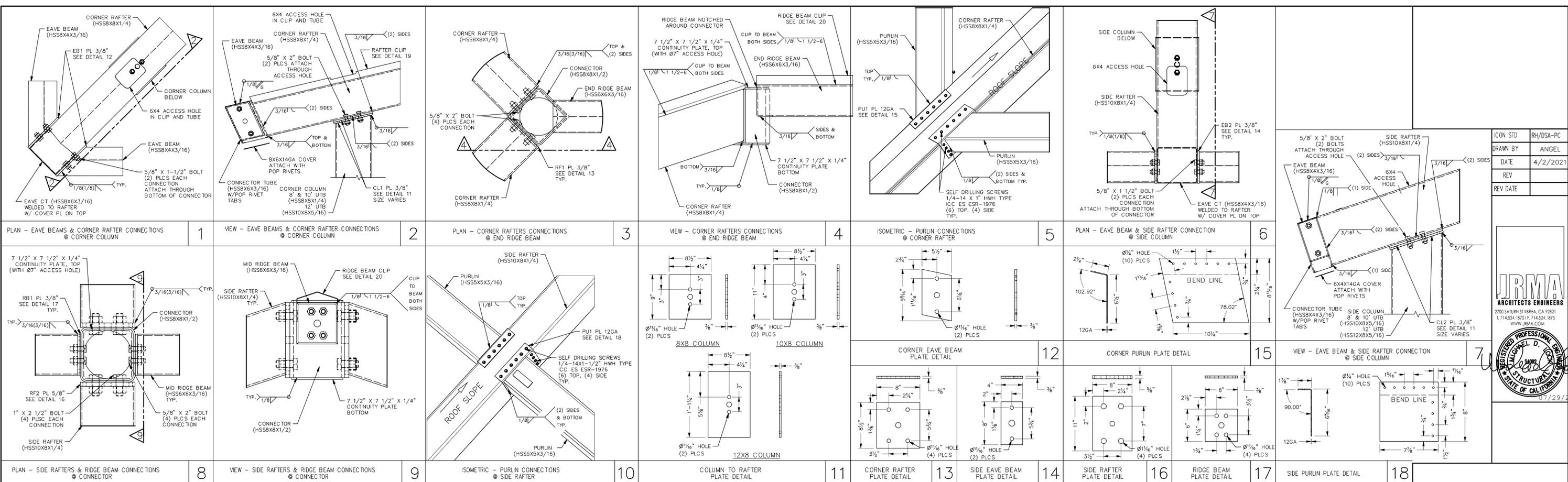
PRE-CHECK (PC) DOCUMENT
 Code: 2019 CBC
 A separate project application for construction is required.

30' WIDE
 RECTANGULAR HIP
 FOUNDATION PLAN

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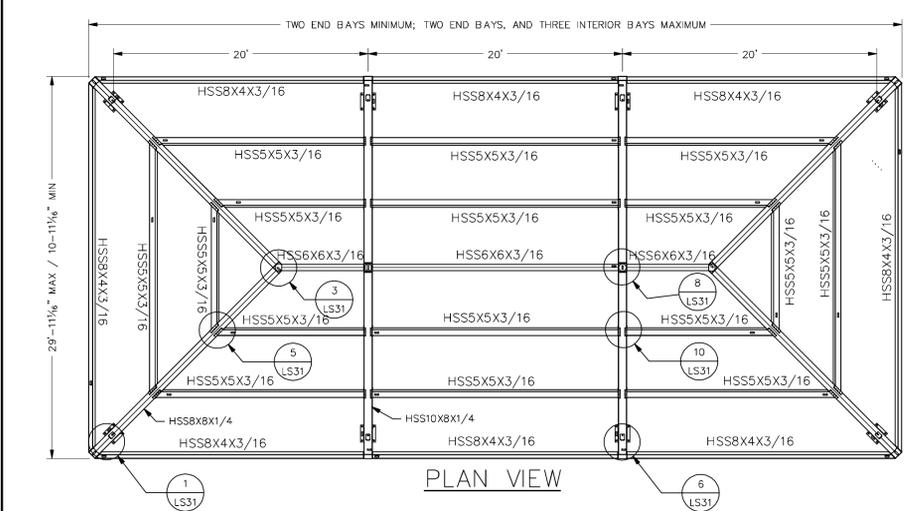
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 DATE 4/2/2021
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REGISTERED PROFESSIONAL ENGINEER
 LICENSE NO. 44890
 STATE OF CALIFORNIA



MODEL DESIGNATION

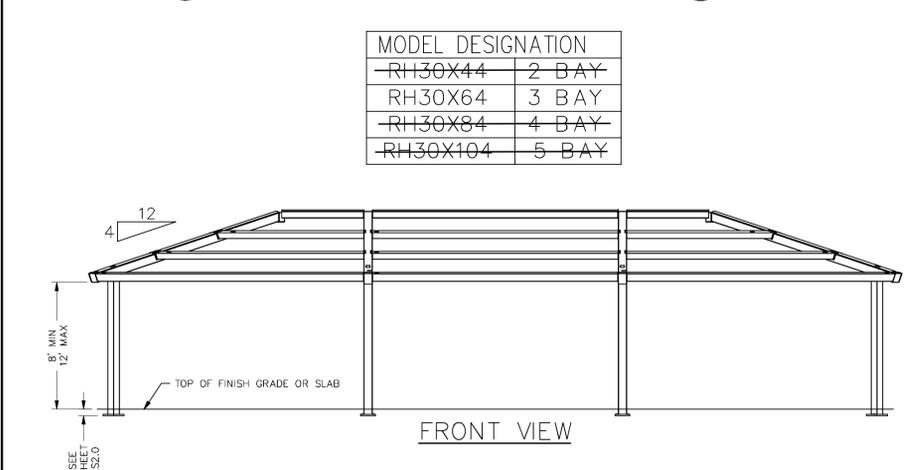
RH30X44	2 BAY
RH30X64	3 BAY
RH30X84	4 BAY
RH30X104	5 BAY

*NOTE: QUANTITIES WILL VARY DEPENDING ON SHELTER SIZE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL.

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	LENGTH	UNIT WEIGHT
1	4		CORNER COLUMN	**SEE NOTE BELOW		353 lbmass
2	*		SIDE COLUMN	**SEE NOTE BELOW		399 lbmass
3	2		LH SIDE EAVE BEAM	HSS8X4X3/16		311 lbmass
4	2		RH SIDE EAVE BEAM	HSS8X4X3/16		311 lbmass
5	2		END EAVE BEAM	HSS8X4X3/16		422 lbmass
6	*		SIDE EAVE BEAM	HSS8X4X3/16		287 lbmass
7	4		CORNER RAFTER	HSS8X8X1/4		607 lbmass
8	*		SIDE RAFTER	HSS10X8X1/4		474 lbmass
9	2		END RIDGE BEAM	HSS6X6X3/16		149 lbmass
10	*		MID RIDGE BEAM	HSS6X6X3/16		329 lbmass
11	*		CONNECTOR	HSS8X8X1/2		48 lbmass
12	2		LH SIDE PURLIN 1	HSS5X5X3/16		238 lbmass
13	2		RH SIDE PURLIN 1	HSS5X5X3/16		238 lbmass
14	2		END PURLIN 1	HSS5X5X3/16		278 lbmass
15	2		LH SIDE PURLIN 2	HSS5X5X3/16		167 lbmass
16	2		RH SIDE PURLIN 2	HSS5X5X3/16		167 lbmass
17	2		END PURLIN 2	HSS5X5X3/16		137 lbmass
18	*		MID PURLIN	HSS5X5X3/16		284 lbmass

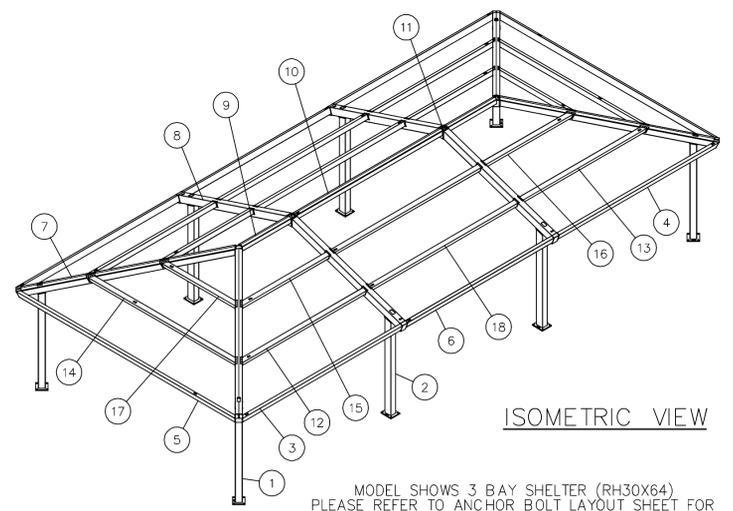
**NOTE: MATERIAL WILL VARY DEPENDING ON SHELTER SIZE ORDERED.

- CORNER COLUMN 8' UTB - (HSS8X8X1/4)
- SIDE COLUMN 8' UTB - (HSS10X8X5/16)
- CORNER COLUMN 10' UTB - (HSS8X8X1/4)
- SIDE COLUMN 10' UTB - (HSS10X8X5/16)
- CORNER COLUMN 12' UTB - (HSS10X8X5/16)
- SIDE COLUMN 12' UTB - (HSS12X8X5/16)



96" MIN IF USED OVER ACCESSIBLE PARKING OR ACCESS AISLES

114" MIN IF LOCATED OVER ACCESSIBLE PASSENGER LOADING ZONES

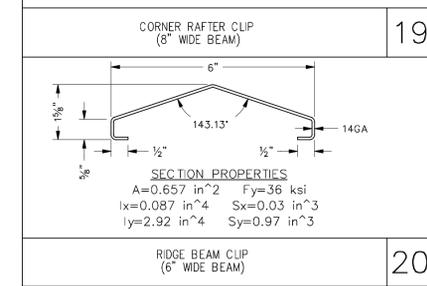


MODEL SHOWS 3 BAY SHELTER (RH30X64)
 PLEASE REFER TO ANCHOR BOLT LAYOUT SHEET FOR CORRECT COLUMN PLACEMENT BASED ON SIZE ORDERED

APPROVED
 DIV. OF THE STATE ARCHITECT
 APP-04-120013 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 08/06/2021

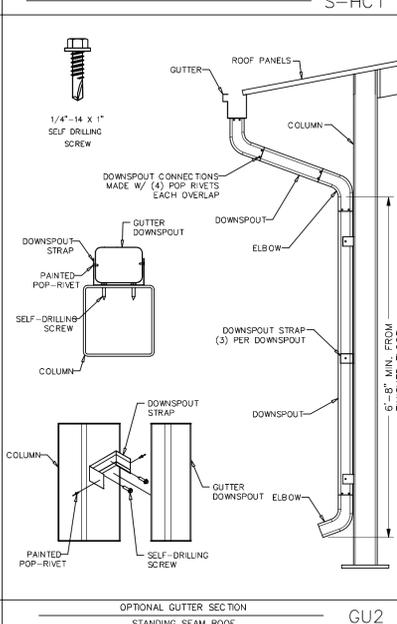
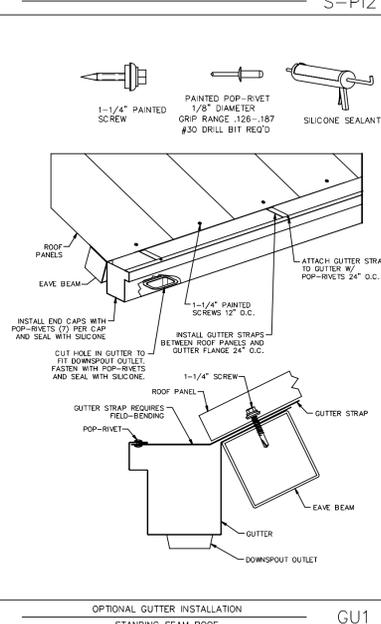
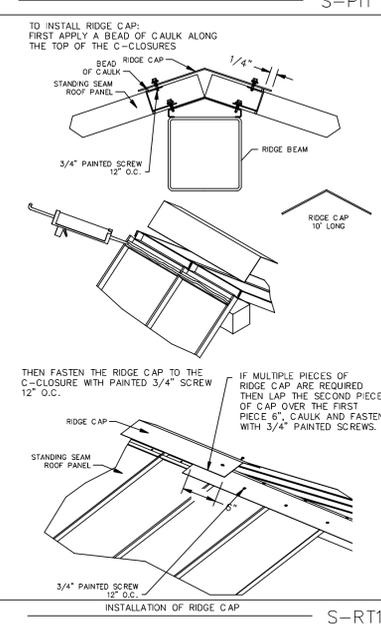
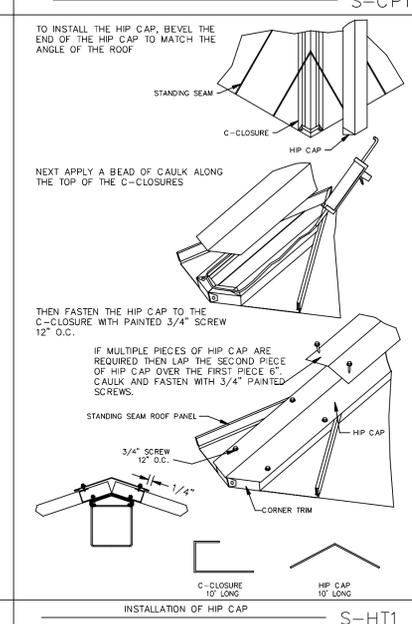
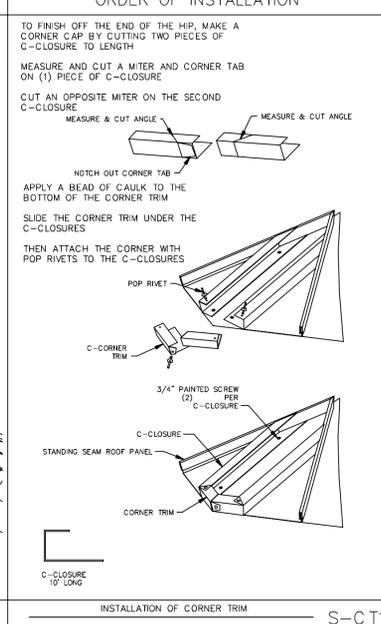
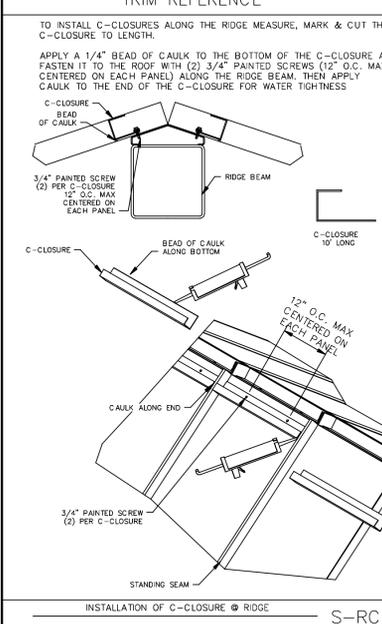
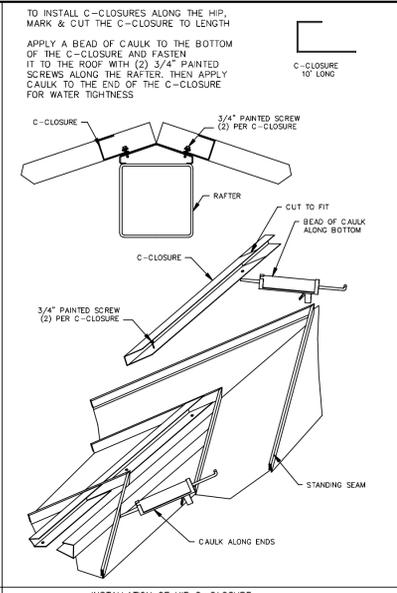
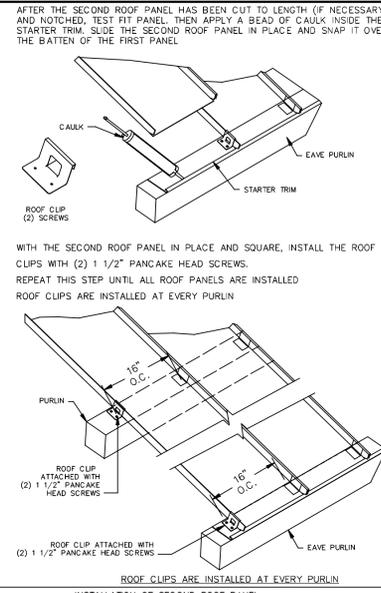
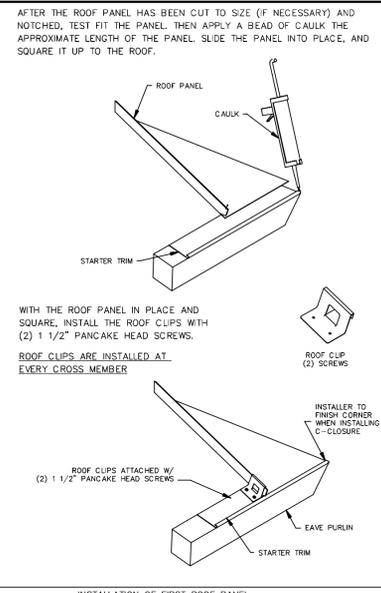
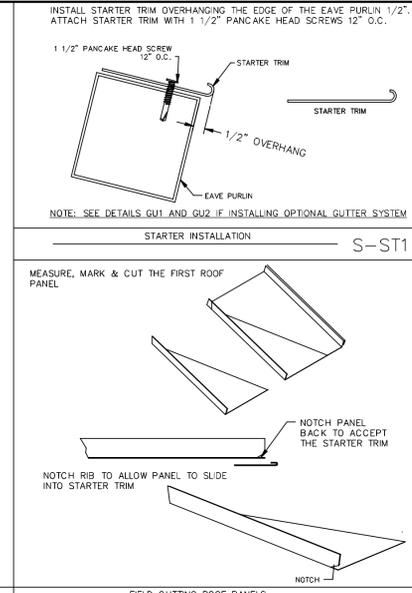
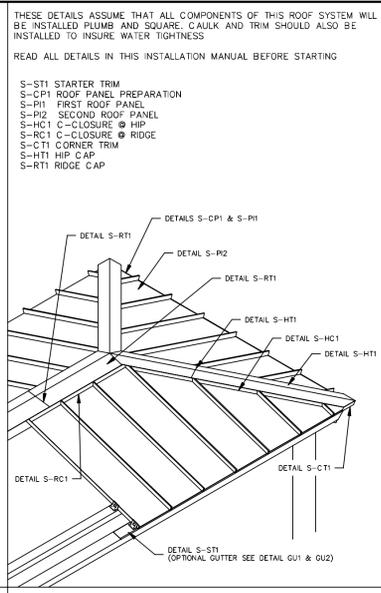
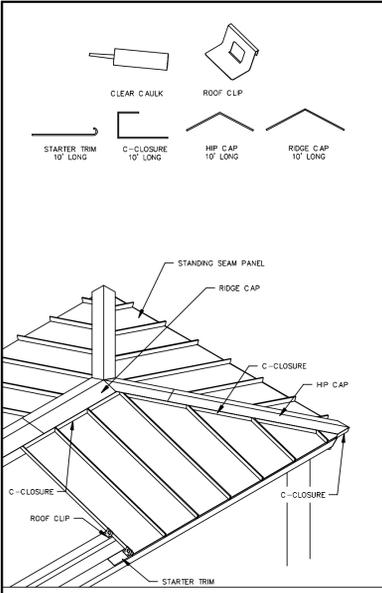
30' WIDE
 RECTANGULAR HIP
 FRAMING &
 CONNECTION DETAILS

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PRE-CHECK (PC) DOCUMENT
 Code: 2019 CBC
 A separate project application for construction is required.

LS3.1



ROOF NOTES

ATTENTION INSTALLERS: METAL SHAVINGS LEFT ON ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH!

DRILLING OR INSTALLING ROOF FASTENERS WILL CAUSE METAL SHAVINGS. THESE SHAVINGS MUST BE CAREFULLY REMOVED AT THE END OF EACH DAY BY EITHER SWEEPING OR BRUSHING THE INSTALLED ROOF.

<p>INSTALLED CORRECTLY</p> <p>THE SEALING MATERIAL IS VISIBLE AROUND THE METAL WASHER</p>	<p>INSTALLED TOO TIGHT</p> <p>THE SEALING MATERIAL IS DEFORMED BEYOND THE EDGE OF THE METAL WASHER</p>	<p>INSTALLED TOO LOOSE</p> <p>THE SEALING MATERIAL IS NOT VISIBLE AROUND THE EDGE OF THE METAL WASHER</p>
---	--	---

THE DETAILS SHOWN ARE SUGGESTIONS OR GUIDELINES ON HOW TO ERECT THE METAL ROOFING SYSTEM. THE INFORMATION SHOWN IS ACCURATE, BUT IT IS NOT INTENDED TO COVER ALL INSTANCES, BUILDING REQUIREMENTS, DESIGN OR CODES. CHANGES TO THE DETAILS MAY BE REQUIRED DUE TO FIELD CONDITIONS.

THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL INSTALLATION INSTRUCTION MATERIAL BEFORE STARTING WORK.

THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.

ERECTORS SHALL BE RESPONSIBLE TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.

FOR THE BEST APPEARANCE ALL TRIM AND FLASHING SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ALL EXPOSED FASTENERS EQUALLY SPACED.

SOME FIELD CUTTING AND/OR FITTING OF PANELS, TRIM AND FLASHING IS TO BE EXPECTED BY THE ERECTOR. MINOR FIELD CORRECTIONS ARE PART OF NORMAL ERECTION WORK.

THE INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSPERSON AND WORKMANSHIP SHALL MEET THE BEST INDUSTRY STANDARDS.

3/4" PAINTED SCREW (4) PER C-CLOSURE
1 1/2" PANCAKE HEAD SCREW 12-24 x 1 1/2" SDS ICC ESR-1976

16" COVER WIDTH

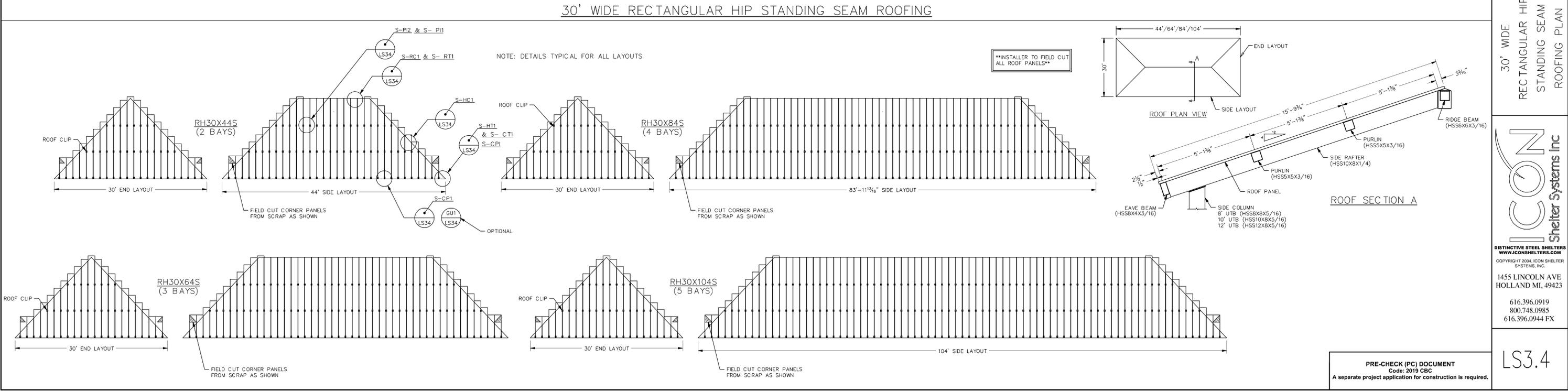
MEDALLION LOK STANDING SEAM PANEL SECTION
24 go. Fy = 50 ksi Fu = 65 ksi
ICC ESL-1082

SECTION PROPERTIES (PER FT. OF WIDTH)

TOP IN COMPRESSION
Ix=0.086 in^4
Sx=0.0561 in^3
Mx=1.68 in-kips

BOTTOM IN COMPRESSION
Ix=0.040 in^4
Sx=0.0479 in^3
Mx=1.248 in-kips

APPROVED
DIV. OF THE STATE ARCHITECT
APP-04-120013 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 08/06/2021



ICON STD RH/DSA-PC
DRAWN BY ANGEL
DATE 4/2/2021
REV
REV DATE

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WWW.JRMA.COM

REGISTERED PROFESSIONAL ENGINEER
ARCHITECTURE
STATE OF CALIFORNIA
07/29/2021

30' WIDE RECTANGULAR HIP STANDING SEAM ROOFING PLAN

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHelters.com
COPYRIGHT 2004, ICON SHELTER SYSTEMS, INC.
1455 LINCOLN AVE HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

LS3.4

PRINTED ON:

ELECTRICAL INFORMATION - RECTANGULAR HIP

ICON'S STANDARD ELECTRICAL IS DESIGNED TO ACCOMMODATE Ø1/2" CONDUIT WITH A Ø3" INLET HOLE ON THE BOTTOM OF EACH COLUMN. THE CONDUIT PATHWAY RUNS THROUGH THE COLUMN, RAFTER, AND RIDGE BEAM THROUGH ALL BOLTED CONNECTIONS AS SHOWN. IF YOU HAVE SPECIAL ELECTRICAL REQUIREMENTS, PLEASE OUTLINE ANY CHANGES BELOW AS DESCRIBED.

PLEASE NOTE: DESIGN LIMITATIONS ON HOLE/CUTOUT SIZES MAY APPLY. ICON WILL REACH OUT TO DISCUSS ANY SUCH LIMITATIONS AS NEEDED.

NOTE: ICON SHELTER FRAME IS NOT UL LISTED TO ACT AS A CONDUIT FOR ELECTRICAL WIRING. CONSULT LOCAL BUILDING CODES WHEN PLANNING YOUR ELECTRICAL SYSTEM.

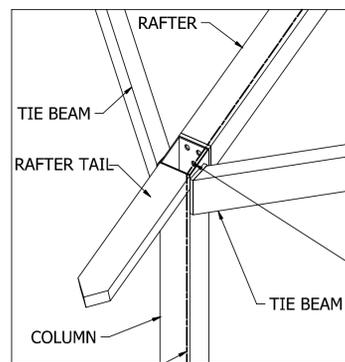
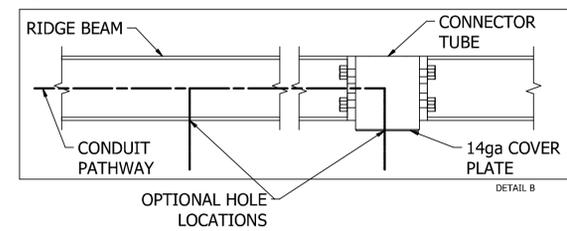
PRELIMINARY: NOT FOR CONSTRUCTION

STEPS:

1. CONDUIT HOLE SIZE (DETAIL A)
2. ELECTRICAL EXIT HOLES (DETAIL B)
3. ELECTRICAL ACCESS & COVER PLATES (DETAIL C)
4. ELECTRICAL CONDUIT PATHWAY (DETAIL D)

OPTIONAL EXIT HOLES

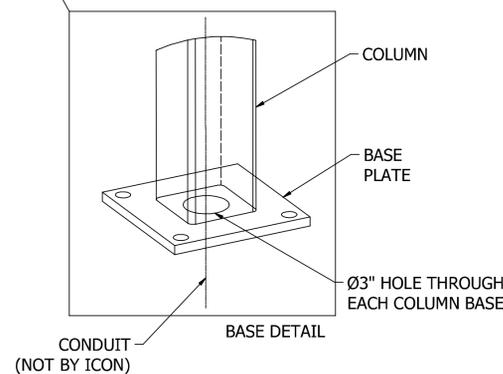
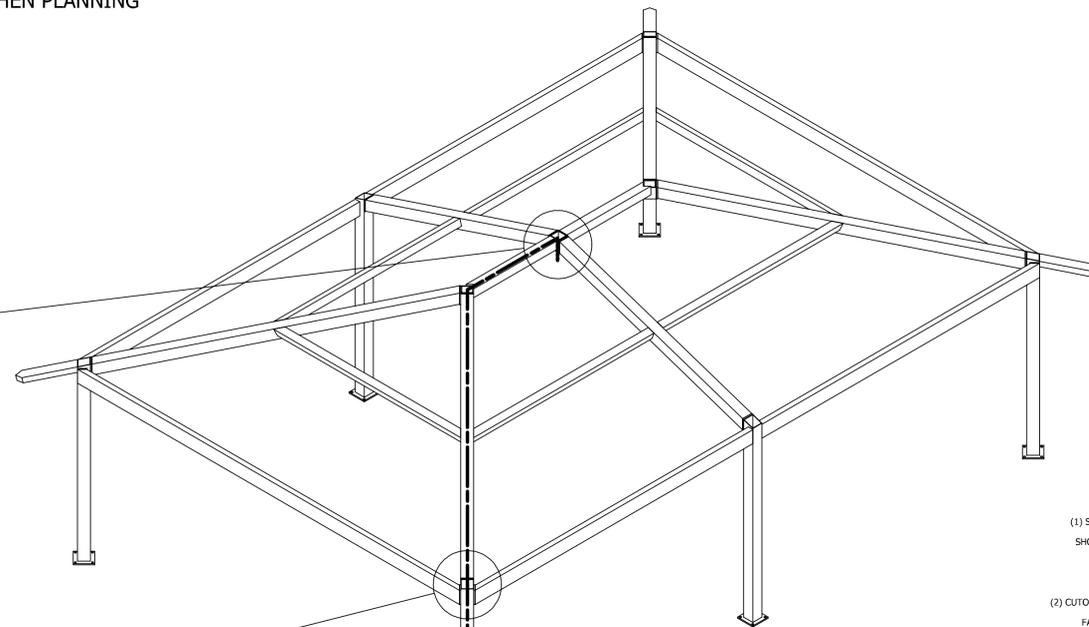
IF REQUIRED, EXIT HOLES FOR LIGHTING, ETC. CAN BE PLACED IN THE RIDGE BEAM AND/OR CONNECTOR TUBE WITH 14ga COVER PLATE AS SHOWN (CHARGES APPLY). USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED EXIT HOLE LOCATIONS AND SIZE.



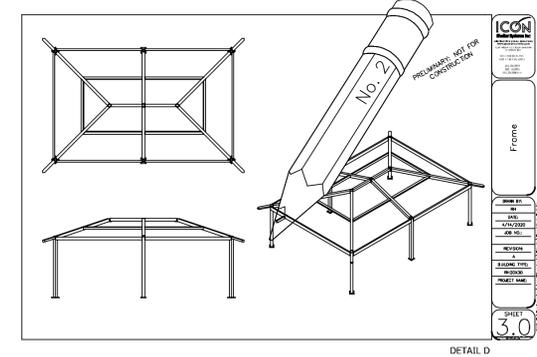
ICON PROVIDES A MINIMUM OF (1) 3/4" HOLE AT EACH CONNECTION FOR 1/2" CONDUIT. IF APPLICABLE, PLEASE SPECIFY REQUIRED CONDUIT SIZE: (CHARGES APPLY)

- 3/4" CONDUIT (1" HOLES)
- 1" CONDUIT (1 1/4" HOLES)
- OTHER (PLEASE SPECIFY)

NOTE: BUILDING DEPICTED ON THIS SHEET FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LAYOUT AND FRAME MEMBER QUANTITIES VARY BY DESIGN. PLEASE REFER TO ELEVATION AND FRAME SHEETS IN THIS PRELIMINARY FOR ORDER-SPECIFIC CONFIGURATION.

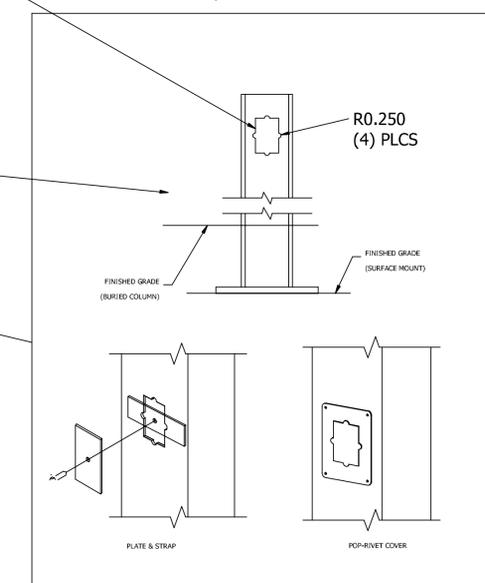


IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET OF THIS PRELIMINARY.



OPTIONAL CUTOUTS
USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED CUTOUT LOCATIONS (CHARGES APPLY). SEE REQUIRED INFO BELOW.

- (1) STANDARD CUTOUT SIZE SHOWN. SPECIFY IF OTHER SIZE REQUIRED.
- (2) CUTOUTS WILL BE ON INSIDE FACE OF COLUMN UNLESS OTHERWISE INDICATED ON FRAME SHEET.
- (3) SPECIFY HEIGHT ABOVE FINISHED GRADE FOR EACH CUTOUT AS SHOWN



- (4) COVER PLATES PROVIDED UPON REQUEST (CHARGES APPLY)
PLEASE SPECIFY TYPE AND QUANTITY REQUIRED:
- PLATE & STRAP
 - POP-RIVET COVER PLATE
- HOW MANY REQUIRED? _____

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DATE	4/2/2021
REV	
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ANGELO D. JACOBINI
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ELECTRICAL ACCESS

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