VERDUGO WOODLANDS ELEMENTARY SCHOOL
KINDERGARTEN SHADE STRUCTURE

GLENDALE UNIFIED SCHOOL DISTRICT
GLENDALE, CALIFORNIA

ABBREVIATIONS

/	ANGLE
@	AT
℄	CENTERLINE
⌀	DIAMETER OR ROUND
A.B.	ANCHOR BOLT
A.F.F.	ABOVE FINISH FLOOR
A.G.	ASPHALTIC CONCRETE
ADJ.	ADJACENT
ALUM.	ALUMINUM
APPROX.	APPROXIMATELY
ARCH.	ARCHITECT
BD.	BOARD
BET.	BETWEEN
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
CAB.	CABINET
C.B.	CATCH BASIN
C.F.	CURB FACE
C.J.	CONTROL JOINT
CLG.	CEILING
C.O.	CONCRETE OPENING
COL.	COLUMN
CONC.	CONCRETE
C.M.U.	CONCRETE MASONRY UNITS
CONTIN.	CONTINUOUS
CONTR.	CONTRACTOR
CORR.	CORRIDOR
DET.	DETAIL
D.F.	DRINKING FOUNTAIN
D.G.	DECOMPOSED GRANITE
DIA.	DIAMETER
DIM.	DIMENSION
DIV.	DIVISION
DN.	DOWN
DBL.	DOUBLE
D.S.	DOWNSPOUT
DWG.	DRAWING
(E)	EXISTING
EA.	EACH
E.J.	EXPANSION JOINT
ELEC.	ELECTRIC
ELEV.	ELEVATION
ENT.	ENTRANCE
EMER.	EMERGENCY
ENCL.	ENCLOSURE
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.G.	EXISTING GRADE
EXPO.	EXPOSED
EXP.	EXPANSION
EXT.	EXTERIOR
F.A.	FLOOR DRAIN
F.B.	FIRE EXTINGUISHER
F.B.C.	FIRE EXTINGUISHER CABINET
F.C.	FINISH FLOOR
F.D.	FINISH GRADE
F.E.	FIRE HYDRANT
F.H.W.S.	FLATHEAD WOOD SCREWS
FIN.	FINISH
F.L.	FLOW LINE
FLASH.	FLASHING
FLUOR.	FLUORESCENT
F.O.A.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.O.V.	FACE OF VENEER
F.R.A.	FIRE RATED ASSEMBLY
F.R.P.	FIBERGLASS REINFORCED PANELS
F.S.	FLOOR SINK
F.T.	FOOT OR FEET
FURR.	FURRING
GA.	GAUGE
GALV.	GALVANIZED
G.I.	GALVANIZED IRON
GL.	GLASS
GLU LAM.	GLUE LAMINATED
GND.	GROUND
GR.	GRADE
GR.A.	GYPSUM
H.B.	HOSE BIB
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HR.	HOUR
HT.	HEIGHT
HTG.	HEATING
HDWD.	HARDWOOD
I.D.	INSIDE DIAMETER
INSUL.	INSULTAION
INT.	INTERIOR
INV.	INVERT
JAN.	JANITOR
LAB	LABORATORY
LAM.	LAMINATED PLASTIC
LAV.	LAVATORY
LVR	LOUVER
MAR	MARBLE
MAT'L	MATERIAL
MAX.	MAXIMUM
MC	MEDICINE CABINET
M.B.B.	METAL CORNER BEAD
MECH	MECHANICAL
MET	METAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MUL.	MULLION
N.	NORTH
NAT.	NATURAL
N.G.	NATURAL GRADE
N.I.A.	NOT IN CONTRACT
NO. / #	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.A.	OVERALL
OBS.	OBSCURE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND
OPG.	OPENING
OSA	OUTSIDE AIR
PART.	PARTITION
P.H.	PANIC HARDWARE
PL.	PLATE
P.L.	PROPERTY LINE
PLAS.	PLASTIC
PLYWD.	PLYWOOD
PR.	PAIR
R.	RISER
RB.	RUBBER BASE
RAD.	RADIUS
REDWD.	REDWOOD
REF.	REFERENCE
RESIL.	RESILIENT
REV.	REVERSE
RM.	ROOM
R.O.	ROUGH OPENING
REFR.	REFRIGERATOR
REG.	REGISTER
REINF.	REINFORCEMENT
REQ'D	REQUIRED
RO	ROUGH
S.	SOUTH
SB.	SPLASH BLOCK
S.D.	STORM DRAIN
S.C.	SOLID CORE
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SIM.	SIMILAR
S.J.	SAW OR SCORE JOINT
SLD'G.	SLIDING
SM. F.	SMOOTH FACE
SMS.	SHEET-METAL SCREW
SPEC.	SPECIFICATIONS
SP. F.	SPLIT FACE
SQ.	SQUARE
S.S.	SERVICE SINK
SST.	STAINLESS STEEL
STAT.	STATIONARY
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
SYM.	SYMMETRICAL
T.	TREAD
T.B.	TACKBOARD
T.&B.	TOP AND BOTTOM
T.C.	TOP OF CURB
T.D.	TOWEL DISPENSER
T.G.	TOP OF GRADE
T.O.W.	TOP OF MASONRY
T.O.R.	TOP OF ROOFING
T.O.S.	TOP OF SHEATHING
T.P.	TOP OF PAVING
T.W.	TOP OF WALL
TEL.	TELEPHONE
TEMP.	TEMPERATURE
TR	TRANSOM
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
U.O.F.	UNDERSIDE OF FRAME
UR	URINAL
VAR	VARIES
V.C.T.	VINYL COMPOSITION TILE
VERT.	VERTICAL
VEST.	VESTIBULE
V.I.F.	VERIFY IN FIELD
W/	WITH
W.C.	WATER CLOSET
W.	WOOD
W.I.	WROUGHT IRON

GENERAL NOTES

1. VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON JOB SITE PRIOR TO START OF WORK OR PORTIONS OF WORK. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS RESULT OF FIELD OBSERVATIONS, INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT TIME OF PREPARATION.
2. NOT ALL MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS MAY BE SHOWN ON THE ARCHITECTURAL DRAWINGS
3. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.
4. WHERE ANY CONFLICT OCCURS BETWEEN REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
5. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
6. DETAILS MARKED WITH 'TYPICAL' SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE.
7. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
8. CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN DRAWING AND SPECIFICATION REQUIREMENTS IN ORDER THAT ALL ITEMS RELATE TO ONE ANOTHER. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY ITEMS NOT COORDINATED.
9. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF CONSTRUCTION, ALTERATION, REHABILITATION OR RECONSTRUCTION SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATION (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 THE TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
10. CONTRACTOR SHALL STOP WORK AND NOTIFY ARCHITECT IMMEDIATELY IF ANY ASBESTOS CONTAINING MATERIAL (ACM) OR SUSPECTED ACM IS FOUND DAMAGED OR DISTURBED.
11. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE DESIGN PROFESSIONALS ARE NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES, WHETHER OR NOT SHOWN ON AND INSTALLED BY THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DISTRICT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
12. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR A CHANGE ORDER, APPROVED BY DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

DSA CLOSE OUT STATUS

BUILDING	DSA NO	CERTIFICATION STATUS	DATE
1000	69989	UNKNOWN	
1000	9924	UNKNOWN	
1000	102811	#1	12/24/2002
1000	107884	#2	11/01/2012
2000	8859	UNKNOWN	
3000	4953	UNKNOWN	
4000	114339	UNDER CONSTRUCTION	
RELOCATABLE	32417	UNKNOWN	
RELOCATABLE	28119	UNKNOWN	
RELOCATABLE	26563	UNKNOWN	
RELOCATABLE	101287	#1	4/6/2001
RELOCATABLE	114669	PENDING	

APPLICABLE CODES

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING SECTIONS OF THE CALIFORNIA CODE OF REGULATIONS (CCR).

LIST OF 2016 CALIFORNIA CODE OF REGULATIONS (C.C.R.):

APPLICABLE CODES AS OF JANUARY 1, 2017

PART 1 2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.

PART 2 2016 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R.

PART 3 2016 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R.

PART 4 2016 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R.

PART 5 2016 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R.

PART 6 2016 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.

PART 7 NOT USED

PART 8 2016 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.

PART 9 2016 CALIFORNIA FIRE CODE, TITLE 24 C.C.R.

PART 10 2016 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R.

PART 11 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), TITLE 24 C.C.R.

PART 12 2016 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24 C.C.R.

TITLE 19 C.C.R, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE STANDARDS
2016 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED) 2016 EDITION
NFPA 14	STANDPIPE SYSTEMS (CALIFORNIA AMENDED) 2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS 2016 EDITION
NFPA 17A	WET CHEMICAL SYSTEMS 2016 EDITION
NFPA 20	STATIONARY PUMPS 2016 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED) 2016 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) 2016 EDITION (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES 2016 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS 2016 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2016 EDITION

DSA INSPECTOR

A CLASS 2 PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTIONS 4-342, PART 1, TITLE 24, CCR.

CODE ANALYSIS

BUILDING GROUP	OCCUPANCY CLASS	NO. OF STORIES	TYPE OF CONSTRUCTION	SPRINKLERED	ALLOWABLE SQ. FT.	ACTUAL SQ. FT.
SHADE STRUCTURE	A-3	1	V-B	NO	9,500	400

NOTE: SHADE STRUCTURE IS A MINIMUM 20'-0" AWAY FROM ADJACENT BUILDINGS

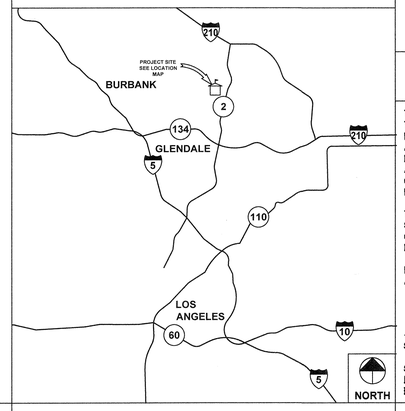
PROJECT DIRECTORY

DISTRICT
GLENDALE UNIFIED SCHOOL DISTRICT
1440 EAST BROADWAY
GLENDALE, CA. 91205

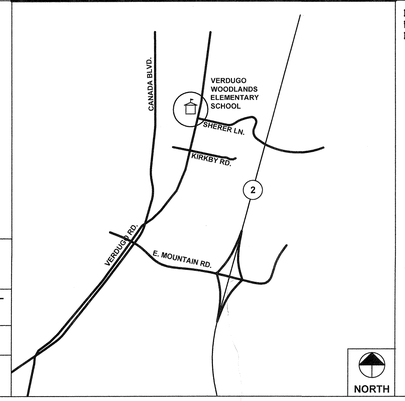
SCHOOL
VERDUGO WOODLANDS ELEMENTARY SCHOOL
1751 NORTH VERDUGO ROAD
GLENDALE, CA. 92108

ARCHITECT
ARCHITECTURE 9, PLLLP
8816 FOOTHILL BOULEVARD, SUITE 103-224
RANCHO CUCAMONGA, CA. 91730
contact@architecture9.com

VICINITY MAP



LOCATION MAP



INDEX OF DRAWINGS

GENERAL
G1.0 TITLE SHEET
G1.1 FIRE ACCESS SITE PLAN

ARCHITECTURAL
A1.1 SITE PLAN
A1.2 ENLARGED SITE PLAN & DETAILS

PRE-FABRICATED SHADE STRUCTURE
POLIGON DSA P.C. 02-113594
PD1.0 GENERAL NOTES
PD1.1 SPECIAL INSTRUCTIONS
PD2.0 FOUNDATION PLAN
PD3.0 FRAMING PLAN
PD4.0 FRAMING CONNECTION DETAILS
PD5.0 SECTION DETAILS
PD6.0 PLATE DETAILS
PD7.0 ARCHITECTURAL VIEWS
PD8.0 ROOF CONNECTION DETAILS
PD9.0 MISC. DESIGN OPTIONS

A/E STATEMENT

THESE DRAWINGS AND/OR SPECIFICATIONS AND/OR CALCULATIONS FOR THE ITEMS LISTED BELOW HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME.

THE ITEMS LISTED BELOW HAVE BEEN COORDINATED WITH MY PLANS AND SPECIFICATIONS AND ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE.

PRE-FABRICATED METAL SHADE STRUCTURE SEE DRAWINGS LISTED ABOVE.

SIGNATURE: S. Mark Gelsinger DATE: 1-4-18

STEVEN M. GELSINGER
LICENSE NO.: C28546
EXPIRATION DATE: MAY 31, 2019

PROJECT DESCRIPTION

DISTRICT FURNISHED, CONTRACTOR INSTALLED (1) 20'x20'x9' KINDERGARTEN PRE-FABRICATED METAL SHADE STRUCTURE WITH GUTTER AND DOWNSPOUTS

Architecture 9 PLLLP
8816 Foothill Boulevard, Suite 103-224
Rancho Cucamonga, CA. 91730
A9contact@architecture9.com

ARCHITECTS STAMP:
LICENSED ARCHITECT
STEVEN M. GELSINGER
Lic. No. C-28546
5-31-19
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT:

CONSULTANTS STAMP:

AUTHORITY APPROVAL:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 03118702
AC FLS SS
DATE JAN 10 2018

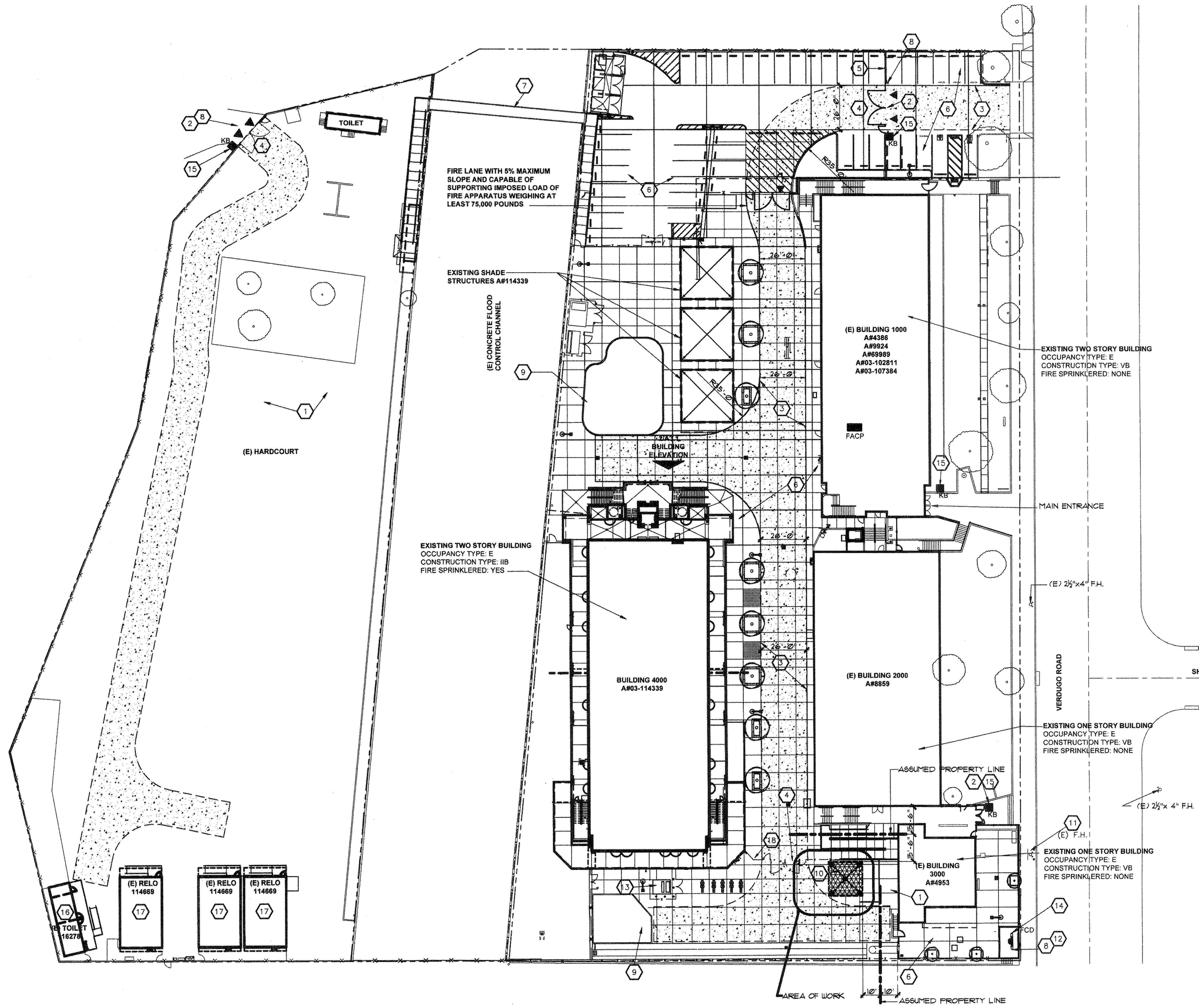
SCHOOL DISTRICT:
GLENDALE UNITED SCHOOL DISTRICT

PROJECT:
VERDUGO WOODLANDS KINDERGARTEN SHADE STRUCTURE

JOB NUMBER: 10.02.07
DATE: 08/10/17
REVISION: 1 DATE:
REVISION: 2 DATE:

DRAWING TITLE:
TITLE SHEET

DRAWING NO.:
G1.0



1 FIRE AUTHORITY SITE PLAN

SCALE: 1" = 40'-0"

TRUE NORTH

FIRE DEPARTMENT NOTES:

A. ACCESS DURING CONSTRUCTION: FIRE APPARATUS ACCESS ROADS SHALL INSTALLED AND MADE SERVICEABLE PRIOR TO AND DURING THE TIME OF CONSTRUCTION EXCEPT WHEN APPROVED ALTERNATIVE METHODS OF PROTECTION ARE PROVIDED (SEE CFC SECTION 501.4)

B. REQUIRED INSPECTIONS:
1. GLENDALE FIRE PREVENTION FINAL INSPECTION (PRIOR TO OCCUPANCY): TO VERIFY INSTALLATION OF ADEQUATE FIRE DEPARTMENT ACCESS AND SIGNAGE, AS INDICATED ON THIS PLAN, CONTACT THE GLENDALE FIRE DEPARTMENT AT (818) 548-4810 TO SCHEDULE A SITE VISIT AND INSPECTION PRIOR TO OCCUPANCY.
2. FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION INSPECTION: THIS INSPECTION WILL INCLUDE A REVIEW OF THE ACCESS REQUIRED FOR FIRE FIGHTING IN CFC SECTION 1410 AND FIRE DEPARTMENT SIGNAGE (TO FACILITATE ACCESS DURING CONSTRUCTION), AND THE WATER SUPPLY AVAILABLE DURING CONSTRUCTION REQUIRED IN CFC SECTION 1412.

C. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL WORK AND ITEMS SHOWN AND CALLED FOR IN THIS DRAWING

D. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF GLENDALE FIRE DEPARTMENT

SCOPE OF WORK:

20' X 20' METAL SHADE STRUCTURE

THIS PROJECT SHALL COMPLY WITH CBC CHAPTER 7A CONSTRUCTION & CFC CHAPTER 49

DSA 810
LOCAL FIRE AUTHORITY REVIEW

To facilitate the Division of the State Architect's (DSA) approval of the Fire/Life Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that add square footage to a campus or if any item on this form is relevant to the project. For additional information, see DSA 810 Instructions and DSA Policy 09-01.

PROJECT INFORMATION

School District/Owner: GLENDALE UNIFIED SCHOOL DISTRICT
Project Name/School: VERDUGO WOODLANDS ELEMENTARY SCHOOL
Project Address: 1751 NORTH VERDUGO ROAD, GLENDALE, CA. 91208

LOCAL FIRE AUTHORITY (LFA)

LFA Agency Name: GLENDALE FIRE DEPARTMENT
LFA Reviewer Name: Sita Demirjian | Title: Fire Div. Safety Specialist
Email: sdemirjian@glendaleca.gov | Telephone Number: 818 937 8105
I have reviewed and responded to the applicable items for this project as listed below.
Note: Only sign this form when it is imaged onto the site plan. A loose form is not acceptable to DSA.
LFA Reviewer's Signature: [signature] **Date:** 12-01-17
Review Key: "Y" = Complies with LFA requirements; "N" = Not approved (complete Section 8); "NA" = Not applicable to the project; "NR" = LFA elects not to review

	Description	Y	N	NA	NR
1	Where an elevator does not meet medical emergency service cab size, per the California Building Code (CBC), use of stairways for emergency rescue and patient transport is acceptable.			X	
2	Access roads, fire lane markings, pavers and gate entrances are in accordance with Title 19, California Code of Regulations and the California Fire Code, Chapter 5.	X			
3	Fire hydrant location and distribution complies with the California Fire Code (or see # 4).	X			
4	Fire hydrant location and distribution complies with NFPA 1142, "Alternate Means." If "NR" is checked, DSA can only approve on-site water storage as an alternate. The signature of the school district official is required to acknowledge the use of alternate means. **Signature of School District Official:** ______ **Date:** ______ **Print the School District Official's Name:** ______			X	
5	The location(s) of the proposed post indicator valve and fire department connection meet the requirements of this jurisdiction.			X	
6	The location(s) of the detector check valve assembly meet the requirements of this jurisdiction.			X	
7	Is the project located in a hazard severity zone area? (CBC, Chapter 7A, Section 701A.) [X] Yes [ ] No. Check type if "Yes": [X] Moderate [ ] High [X] Very High [ ] WIFA (If one of these boxes is checked, the project design must meet the requirements of Chapter 7A.)				
8	COMMENTS (note deficiencies):				

DSA 810 (rev 05-12-14) DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 1 of 1 STATE OF CALIFORNIA

GLENDALE FIRE PREVENTION BUREAU (818) 548-4810
DEC 0 1 2017
APPROVED BY SUBJECT TO FIELD INSPECTION

⬡ KEYNOTES:

1. EXISTING HARD COURT TO REMAIN
2. EXISTING FIRE LANE ENTRANCE SIGN TO REMAIN (A# 03-114669/A# 03-114339)
3. EXISTING FIRE LANE WITH FIRE LANE DESIGNATION TEXT BOTH SIDES
4. EXISTING PAIR 20' W. GATES.
5. EXISTING 8'-0" HIGH FENCE TO REMAIN
6. EXISTING CONCRETE PAVING TO REMAIN
7. EXISTING PEDESTRIAN BRIDGE TO REMAIN
8. EXISTING FIRE ACCESS MAP TO REMAIN (A# 03-114669/A#03-114339)
9. EXISTING PLAY APPARATUS TO REMAIN
10. NEW 20'x20' KINDERGARTEN METAL SHADE STRUCUTRE
11. EXISTING FIRE HYDRANT (A#03-114339)
12. EXISTING BLDG. 4000 FIRE LINE BACK FLOW PREVENTER TO REMAIN
13. EXISTING ELECTRICAL EQUIPMENT TO REMAIN
14. EXISTING BUILDING 4000 FIRE DEPARTMENT CONNECTION TO REMAIN
15. EXISTING KNOX BOX TO REMAIN (A# 03-114669/A# 03-114339)
16. EXISTING ACCESSIBLE BOYS / GIRLS / STAFF TOILET (A# 03-116278)
17. EXISTING MODULAR CLASSROOM BUILDING (A# 03-114669)
18. EXISTING 4'-0" H. FENCE TO REMAIN

CODE ANALYSIS:

BUILDING GROUP	OCCUPANCY CLASS	NO. OF STORIES	TYPE OF CONSTRUCTION	SPRINKLERED	ALLOWABLE SQ. FT.	ACTUAL SQ. FT.
METAL SHADE STRUCTURE	A-3	1	V-B	NO	9500	400

LEGEND:

- EXISTING ONE STORY BUILDING
- NEW SHADE STRUCTURE
- EXISTING FIRE LANE
- PROPERTY LINES
- ASSUMED PROPERTY LINES PER CBC SECTION 503
- ▼ EXISTING FIRE DEPARTMENT ACCESS SIGN ON GATE
- KB — EXISTING KNOX BOX LOCATION MOUNT AT 4'-0" AFF
- FACP — EXISTING FACP LOCATION

Architecture 9 PLLLP
8816 Foothill Boulevard, Suite 103-224
Rancho Cucamonga, CA. 91730
A9contact@architecture9.com

ARCHITECTS STAMP: LICENSED ARCHITECT STEVEN M. GELBINGER C-28546 5-31-19 RENEWAL DATE STATE OF CALIFORNIA

CONSULTANT:

CONSULTANTS STAMP:

AUTHORITY APPROVAL:
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APPL 03118702
AC ___ FLS ___ SS ___
DATE: JAN 10 2018

SCHOOL DISTRICT: GLENDALE UNIFIED SCHOOL DISTRICT

PROJECT: VERDUGO WOODLANDS KINDERGARTEN SHADE STRUCTURE
1751 N. Verdugo Rd, Glendale, CA 91208

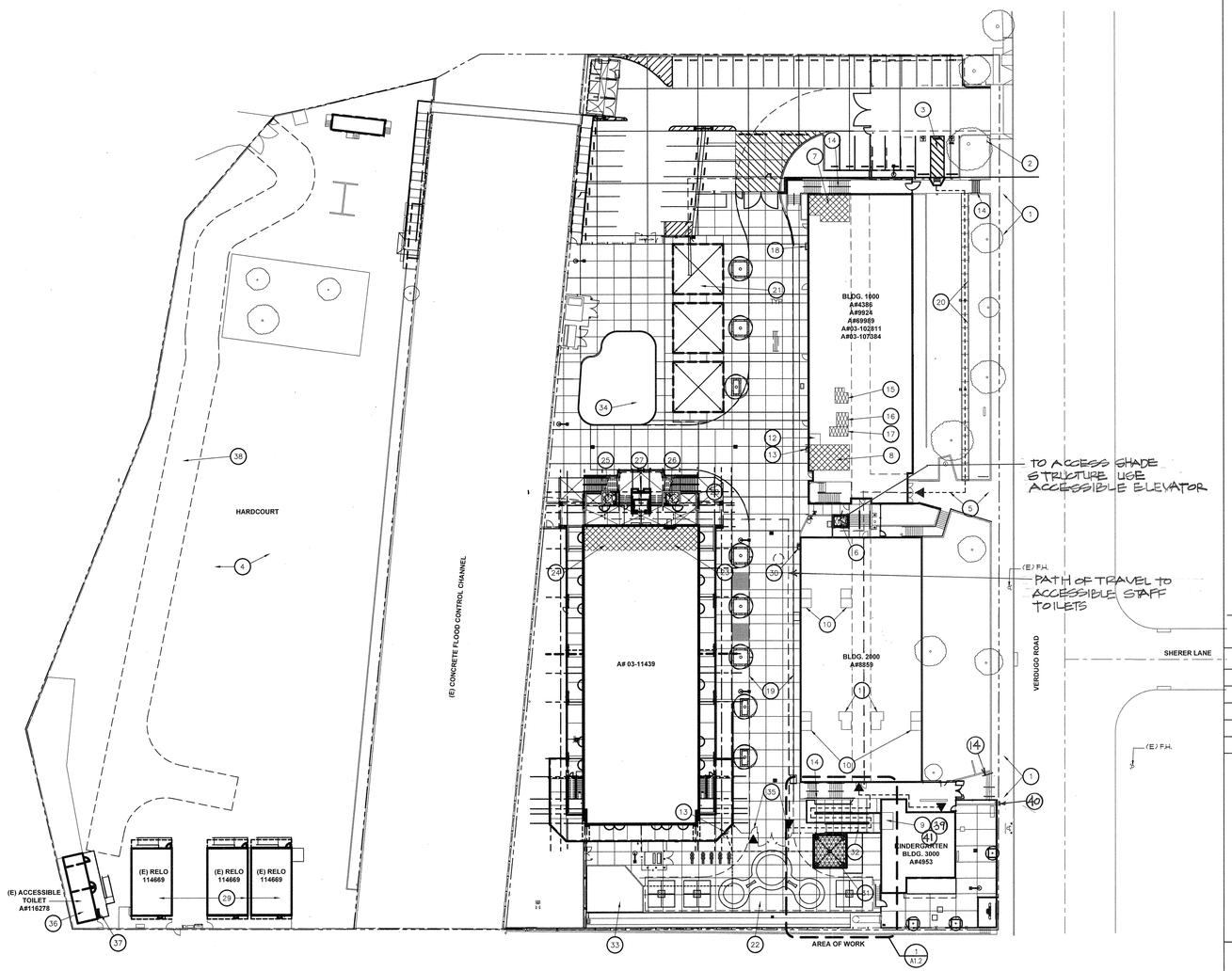
JOB NUMBER: 10.02.07
DATE: 08/10/17

REVISION: 1 DATE: ______
REVISION: 2 DATE: ______

DRAWING TITLE: FIRE AUTHORITY SITE PLAN

DRAWING NO.: G1.1

41. ADD NEW 36" (BACK) AND 42" (SIDE) GRAB BARS AT EXISTING ACCESSIBLE TOILET STALL. PLACE 6" OFF WALL AND 22" AFF PER CBC 11B-609.9.4



1 SITE PLAN

SCALE: 1" = 40'-0"

TRUE NORTH

KEYNOTES

1. EXISTING ACCESSIBLE CITY OF GLENDALE PUBLIC SIDEWALK WITH 5% MAXIMUM SLOPE IN DIRECTION OF TRAVEL AND 2% MAXIMUM CROSS SLOPE
2. EXISTING ACCESSIBLE PARKING TOW-AWAY SIGN ((A# Ø3-114339))
3. EXISTING ACCESSIBLE PARKING STALLS ((A#Ø3-114339))
4. EXISTING UPPER ELEMENTARY ACCESSIBLE HARDCOURT WITH 2% MAXIMUM SLOPE IN ANY DIRECTION
5. EXISTING PATH OF TRAVEL (A# Ø3-107384)
6. EXISTING ACCESSIBLE ELEVATOR (A# Ø3-102811)
7. EXISTING FIRST FLOOR ACCESSIBLE BOYS TOILET (A# Ø3-107384)
8. EXISTING FIRST FLOOR ACCESSIBLE GIRLS TOILET (A# Ø3-107384)
9. EXISTING NON-ACCESSIBLE UNISEX KINDERGARTEN TOILET
10. EXISTING NON-ACCESSIBLE UNI-SEX STUDENT TOILETS
11. EXISTING NON-ACCESSIBLE BOYS AND GIRLS TOILET
12. EXISTING NON-ACCESSIBLE FOOD SERVICE STAFF TOILET
13. EXISTING ACCESSIBLE HIGH / LOW ACCESSIBLE DRINKING FOUNTAIN (A# Ø3-114339)
14. EXISTING STEPS WITH ACCESSIBILITY UPGRADES (A# Ø3-114339)
15. EXISTING SECOND FLOOR ACCESSIBLE MEN'S STAFF TOILET (A# Ø3-102811)
16. EXISTING SECOND FLOOR ACCESSIBLE WOMEN'S STAFF TOILET (A# Ø3-102811)
17. EXISTING SECOND FLOOR ACCESSIBLE NURSE'S TOILET (A# Ø3-102811)
18. EXISTING NON-ACCESSIBLE DRINKING FOUNTAIN
19. EXISTING FIRE LANE (SHOWN DASHED) (A#Ø3-114339)
20. EXISTING 6'-0" WIDE ACCESSIBLE SIDEWALK WITH 5% MAXIMUM SLOPE IN DIRECTION OF TRAVEL AND 2% MAXIMUM CROSS SLOPE (A#Ø3-114339)
21. EXISTING ACCESSIBLE OUTDOOR LUNCH SHELTER AREA WITH 2% MAXIMUM SLOPE IN ANY DIRECTION (A#Ø3-114339)
22. EXISTING ACCESSIBLE KINDERGARTEN HARDCOURT WITH 2% MAXIMUM SLOPE IN ANY DIRECTION (A#Ø3-114339)
23. EXISTING ACCESSIBLE BOYS TOILET ON BOTH FLOORS OF BUILDING 4000 (A#Ø3-114339)
24. EXISTING ACCESSIBLE GIRLS TOILET ON BOTH FLOOR OF NEW BUILDING (A#Ø3-114339)
25. EXISTING ACCESSIBLE MEN'S STAFF TOILET ON BOTH FLOORS OF NEW BUILDING (A#Ø3-114339)
26. EXISTING ACCESSIBLE WOMEN'S STAFF TOILET ON BOTH FLOOR OF NEW BUILDING (A#Ø3-114339)
27. EXISTING ACCESSIBLE ELEVATOR MAXIMUM DISTANCE FROM STAIRS LESS THAN 200 FEET PER CBC SECTION 11Ø3B.2
28. EXISTING ACCESSIBLE HIGH/LOW DRINKING FOUNTAIN ON BOTH FLOORS (A#Ø3-114339)
29. EXISTING 24'x40' RELOCATABLE CLASSROOM, USED BY EEELP (NON-DISTRICT ORGANIZATION) (A#114669)
30. EXISTING ACCESSIBLE HIGH/LOW DRINKING FOUNTAIN WITH GUARD RAILS (A#Ø3-114339)
31. NEW DISTRICT FURNISHED, CONTRACTOR INSTALLED 20'x20'x9' KINDERGARTEN METAL SHADE STRUCTURE W/GUTTER & DOWNSPOUT
32. EXISTING ACCESSIBLE RAMP. (A#Ø3-114339)
33. EXISTING ACCESSIBLE KINDERGARTEN PLAY APPARATUS (A# Ø3-114339)
34. EXISTING ACCESSIBLE LOWER ELEMENTARY PLAY APPARATUS (A#Ø3-114339)
35. EXISTING ACCESSIBLE CHAINLINK GATES, (A#Ø3-114339)
36. EXISTING ACCESSIBLE BOY'S, GIRL'S AND STAFF TOILETS (A#116278)
37. EXISTING ACCESSIBLE HIGH/LOW DRINKING FOUNTAIN (A#116278)
38. EXISTING FIRE LANE (A#Ø3-114669)
39. NEW UNI-SEX TOILET DOOR SIGN PER CBC 1127A.7.1.3
40. NEW "ACCESSIBLE ENTRY" DIRECTIONAL SIGN PER CBC 2902.4.1 AND 1143A.3. ARROW TO POINT RIGHT, MOUNT ON EXISTING METAL FENCE AT 60" AFF

PARKING TABULATIONS

PARKING LOT	
TOTAL PARKING SPACES	47
ACCESSIBLE SPACES REQUIRED PER TABLE 11B-6	2
REGULAR ACCESSIBLE SPACES PROVIDED	1
VAN ACCESSIBLE SPACES PROVIDED	1
STANDARD SPACES PROVIDED	45

RE: 2016 CBC SECTION 1129B, TABLE 11B-6 FOR REQUIRED NUMBER OF ACCESSIBLE PARKING SPACES

LEGEND

- EXISTING BUILDING
- ACCESSIBLE TOILETS & ELEVATOR
- NEW PRE-MANUFACTURED METAL SHADE STRUCTURE
- PROPERTY LINES
- ACCESSIBLE PATH OF TRAVEL
- ACCESSIBLE ENTRY

PATH OF TRAVEL

"THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT."

Architecture 9 PLLLP

8816 Foothill Boulevard, Suite 103-224
Rancho Cucamonga, CA. 91730
A9contact@architecture9.com

ARCHITECTS STAMP:

LICENSED ARCHITECT STEVEN M. GELSINGER No. 28545 5-31-19 RENEWAL DATE STATE OF CALIFORNIA

CONSULTANT:

CONSULTANTS STAMP:

AUTHORITY APPROVAL:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 03118702
AC FLS SS
DATE: JAN 10 2018

SCHOOL DISTRICT:
GLENDALE UNIFIED SCHOOL DISTRICT

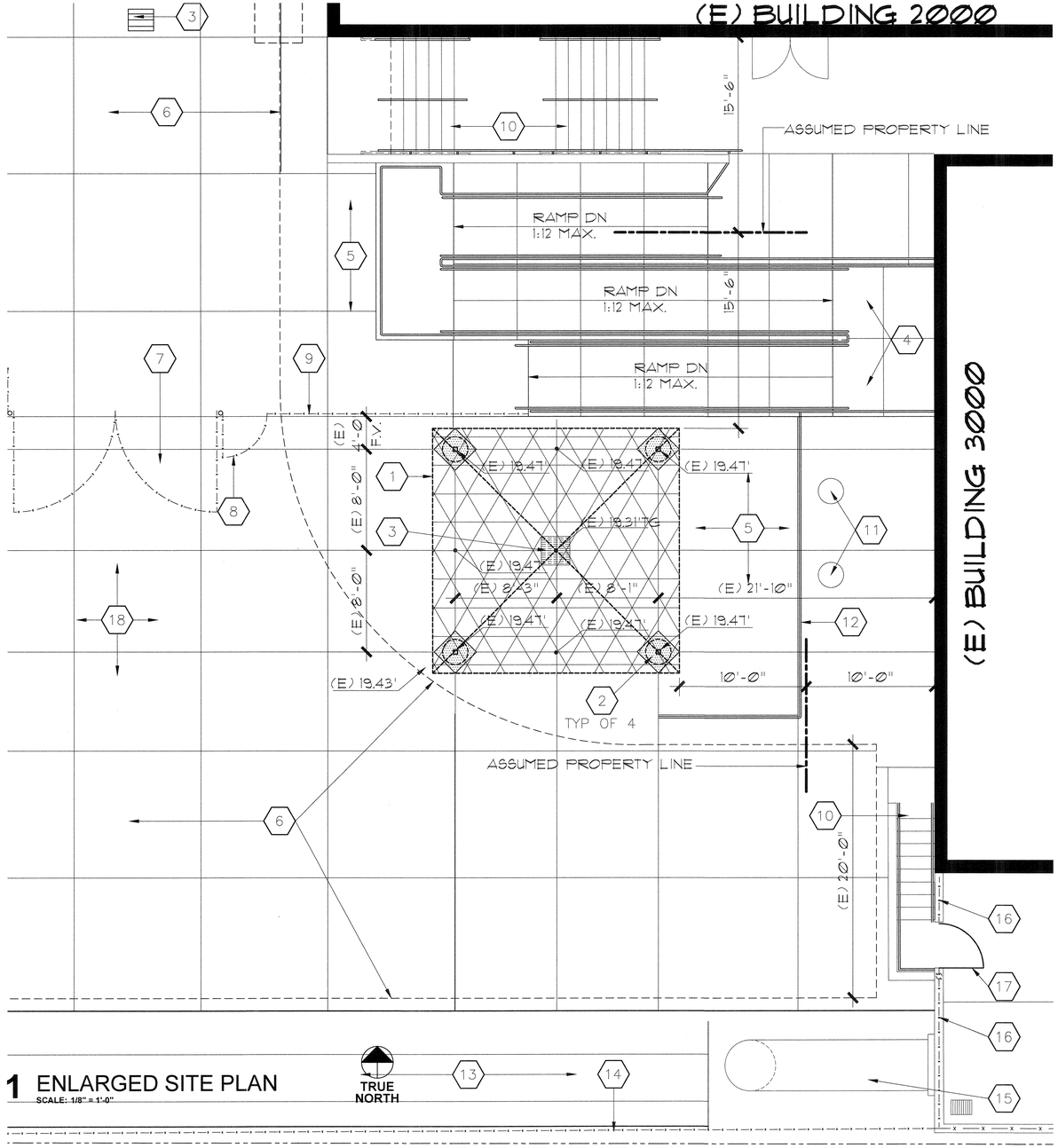
PROJECT:
VERDUGO WOODLANDS KINDERGARTEN SHADE STRUCTURE

JOB NUMBER: 10.02.07
DATE: 08/10/17

REVISION: 1 DATE: _____
REVISION: 2 DATE: _____

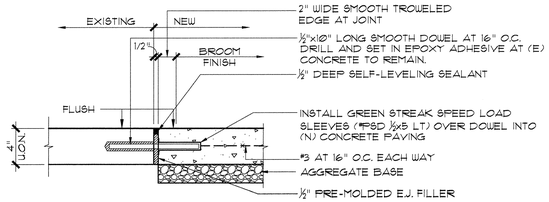
DRAWING TITLE:
SITE PLAN

DRAWING NO.:
A1.1



1 ENLARGED SITE PLAN

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



2 EXISTING / NEW CONCRETE JOINT

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

GENERAL NOTES

A FOR TYP. SYMBOLS AND ABBREVIATIONS, SEE SHEET G1.0.

B IF SCHOOL IS IN SESSION, PROVIDE TEMPORARY 6' HIGH CHAIN LINK FENCE ENCLOSURES WITH LOCKABLE GATES AS REQUIRED FOR CONSTRUCTION ACCESS AT CONTRACTOR'S STAGING AREA AND AROUND ALL CONSTRUCTION SITES.

C WHERE REMOVAL OF CONCRETE WALKS, MOWSTRIPS, CURBS AND GUTTERS IS REQUIRED BY THE EXECUTION OF THIS CONTRACT, REMOVE THE CONCRETE WORK TO THE NEAREST EXISTING EXPANSION OR CONTROL JOINT (SAWCUT IF REQUIRED). CURBS AND GUTTERS MAY BE REMOVED IN MINIMUM LENGTHS OF 6' IF THE DISTANCE BETWEEN EXISTING JOINTS IS 12' OR MORE. REPLACE REMOVED WORK WITH REINFORCED CONCRETE TO MATCH ADJACENT EXISTING WORK IN PROFILE, JOINT LAYOUT AND FINISH.

D WHERE CONCRETE OR ASPHALT PAVING IS DAMAGED BY THE EXECUTION OF THIS CONTRACT, PATCH & REPAIR TO ORIGINAL OR BETTER CONDITION. WHERE (E) LAWNS ARE DAMAGED BY THE EXECUTION OF THIS CONTRACT, FILL, COMPACT, AND REPLANT AREA TO MATCH EXISTING TURF AREA.

E CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING UNDERGROUND UTILITY LOCATIONS IN AREAS OF WORK PRIOR TO START OF CONSTRUCTION.

KEYNOTES ⬡

1. NEW DISTRICT FURNISHED, CONTRACTOR INSTALLED 20'x20'x9' PRE-FABRICATED METAL SHADE STRUCTURE WITH GUTTERING AND DOWNSPOUTS
2. REMOVE AND REPLACE EXISTING 36"x36" AREA OF REINFORCED 4" CONCRETE PAVING TO INSTALL SHADE STRUCTURE FOOTINGS AND POSTS RE: 2/A1.2
3. EXISTING CATCH BASIN W/ADA COMPLIANT
4. EXISTING ACCESSIBLE RAMP (A#03-114339)
5. EXISTING 4" CONCRETE PAVING
6. EXISTING 6" CONCRETE PAVING FIRE LANE (A#03-114339)
7. EXISTING 20' Wx4' H. CHAINLINK GATE (A#03-114339)
8. EXISTING 42" Wx4' H. CHAINLINK ACCESSIBLE GATE (A#03-114339)
9. EXISTING 4' H. CHAINLINK FENCE
10. EXISTING STAIRS (A#03-114339)
11. EXISTING MANHOLE COVER
12. EXISTING 36" H. GUARDRAIL (A#03-114339)
13. EXISTING BIO-FILTER (A#03-114339)
14. EXISTING PROPERTY LINE
15. EXISTING STORM WATER PIPE
16. EXISTING 7' H. CHAINLINK FENCE
17. EXISTING 42" Wx7' H. CHAINLINK GATE
18. EXISTING CONTROL JOINTS, FIELD VERIFY LOCATIONS

LEGEND

- EXISTING ONE STORY BUILDING
- NEW PRE-FABRICATED METAL SHADE STRUCTURE
- REMOVE AND REPLACE EXISTING 4" CONCRETE PAVING AT NEW COLUMNS

Architecture 9 PLLLP

8816 Foothill Boulevard, Suite 103-224
Rancho Cucamonga, CA. 91730
A9contact@architecture9.com

ARCHITECTS STAMP:

LICENSED ARCHITECT
STEVEN M. GELSINGER
No. C-28546
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JOB NUMBER: 10.02.07
DATE: 08/10/17

REVISION: 1 DATE: _____
REVISION: 2 DATE: _____

DRAWING TITLE:
ENLARGED SITE PLAN

DRAWING NO.:
A1.2

2014A

DESIGN VALUES:

DESCRIPTION	DESIGN VALUES
DEAD AND LIVE LOADS	
ROOF LIVE LOAD	20 PSF
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME)	VARIES
ALLOWABLE SOIL PRESSURE	
DL+LL (CONCRETE FOOTING)	2000 PSF
DL+LL+SEISMIC (CONCRETE FOOTING)	2000 PSF
ROOF SNOW LOAD	
GROUND SNOW LOAD, Pg, FROM COUNTY	10 PSF
RISK CATEGORY	[X] II [ ] III
ROOF SNOW LOAD: [ ] FLAT, Pf OR [ ] LOW-SLOPE, Pm OR [X] SLOPED, Ps	10 PSF
SNOW ROOF SLOPE FACTOR, Cs	1.0
SNOW EXPOSURE FACTOR, Ce	1.2
SNOW LOAD IMPORTANCE FACTOR, Is	[X] 1.0 [ ] 1.1
THERMAL FACTOR, Ct	[ ] 1.0 [X] 1.2
FLOOD DESIGN	
FLOOD HAZARD AREA: [ ] YES [X] NO	
WIND DESIGN	
BASIC WIND SPEED (3 SECOND GUST), Vult	110 MPH
RISK CATEGORY	[X] II [ ] III
EXPOSURE CATEGORY	[X] C [ ] D
TOPOGRAPHIC FACTOR, Kzt (1 MINIMUM)	1.0
INTERNAL PRESSURE COEFFICIENT, GCpi (IF APPLICABLE)	0.0
SEISMIC DESIGN	
LATERAL FORCE-RESISTING SYSTEM	STEEL ORDINARY CANTILEVER , COLUMN SYSTEMS
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC DESIGN CATEGORY (SDC)	E
SEISMIC IMPORTANCE FACTOR, Ie	[X] 1.0 [ ] 1.25
DESIGN BASE SHEAR, V	Cs x W
SEISMIC RESPONSE COEFFICIENT, Cs	LOAD SCENARIO = { 1, 2, 3, 4 } Cs = { 0.80, 0.80, 1.07, 1.28 }
RESPONSE MODIFICATION FACTOR, R	1.25
SITE CLASS	[X] D [ ] E
REDUNDANCY FACTOR, p	1.3
MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, Ss - USED TO DETERMINE Cs (WITH CAP PER CBC 1616A.1.12)	LOAD SCENARIO = { 1, 2, 3, 4 } Ss (MAX) = { 1.875, 1.875, 2.500, 3.000 }
MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, Ss - USED TO DETERMINE OTHER PARAMETERS AND NON-STRUCTURAL COMPONENT ANHORAGE (NO CAP)	3.00
SHORT-PERIOD SITE COEFFICIENT, Fa	1.0
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, Sds - USED TO DETERMINE Cs (WITH CAP PER CBC 1616.1.12)	LOAD SCENARIO = { 1, 2, 3, 4 } Sds (MAX) = { 1.00, 1.00, 1.33, 1.60 }
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, Sds - USED TO DETERMINE OTHER PARAMETERS AND NON-STRUCTURAL COMPONENTS ANCHORAGE (NO CAP)	2.00
MAPPED SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD, S1	1.07
LONG-PERIOD SITE COEFFICIENT, Fv	1.5
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD, Sd1	1.07
HORIZONTAL OR VERTICAL IRREGULARITIES TYPE(S)	NONE

ARCHITECTURAL REQUIREMENTS:

DESCRIPTION	DESIGN VALUES
TYPE OF CONSTRUCTION	VB
OCCUPANCY CLASSIFICATION	A3
NUMBER OF STORIES	1
FIRE HAZARD SEVERITY ZONE	VERY HIGH
FIRE SPRINKLER SYSTEM	NOT BY POLIGON

POLIGON ASSUMES ANY OCCUPANT LOAD CALCULATIONS ARE BASED ON 15 SQ FT/ PERSON. PROJECT ARCHITECT MAY ADJUST OCCUPANT LOAD AS PERMITTLED BY THE BUILDING CDE.

RELATED BUILDING CODES AND STANDARDS:

TITLE 24 CODES:

2013 California Administrative Code (CAC)..........................(Part 1, Title 24, CCR)
2013 California Building Code (CBC), Volumes 1, and 2 (Part 2, Title 24, CCR)
(2012 International Building Code with 2013 California amendments)
2013 California Electrical Code ....(Part 3, Title 24, CCR)
(2011 National Electrical Code with 2013 California amendments)
2013 California Mechanical Code (CMC) ....(Part 4, Title 24, CCR)
(2012 Uniform Mechanical Code with 2013 California amendments)
2013 California Plumbing Code (CPC) ....(Part 5, Title 24, CCR)
(2012 Uniform Plumbing Code with 2013 California amendments)
2013 California Energy Code ....(Part 6, Title 24, CCR)
(Effective July 1, 2014)
2013 California Fire Code (CFC) ....(Part 9, Title 24, CCR)
(2012 International Fire Code with 2010 California Amendments)
2013 California Green Building Standards Code...................(Part 11, Title 24, CCR)
(Effective January 1, 2014)
2013 California Referenced Standards Code .... (Part 12, Title 24, CCR)
NFPA 13 - 2013
NFPA 72 - 2013

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:

2013 CBC, CHAPTER **35**
2013 CFC, CHAPTER **45**

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 TUBULAR STEEL MEMBERS SUPPORTED ON CONCRETE FOUNDATIONS. THE FLEXIBILITY INCLUDED HEREIN ALLOWS THIS STRUCTURE TO COMPLY WITH A WIDE VARIETY OF PROJECT SITES AND LOADING REQUIREMENTS.

GENERAL:

1. 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.
2. 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.
3. 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.
4. 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.
5. 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 VISITS 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.
6. ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS.
7. 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.
8. 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.
9. 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.
10. THE SCHOOL DISTRICT'S INSPECTOR OF RECORD SHALL INSPECT AND APPROVE THE ERECTED FRAME PRIOR TO ROOF INSTALLATION.
11. 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 REQUIRMENTS.
12. 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.
13. VIEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE). DO NOT SCALE THESE DRAWINGS.
14. OTHER SITE SPECIFIC ITEMS MAY BE REQUIRED.

STRUCTURAL AND MISCELLANEOUS STEEL:

1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFIATION MANUAL REFERENCED BY THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
2. PIPE SECTIONS SHALL CONFORM TO ASTM A53, Fy = 35 ksi, GRADE B OR A501 UNLESS NOTED OTHERWISE.
3. STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A500, GRADE B (OR HIGHER), Fy = 46 KSI.
4. IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESSES CAN BE INCREASED BEYOND WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
5. ALL CHANNELS, ANGLES, AND MISC. STEEL SHALL CONFORM TO ASTM A36, Fy = 36 KSI.
6. ALL COLD FORM STEEL SHALL CONFORM TO ASTM A653, CS = TYPE B, Fy = 50 KSI.
7. STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2203A.1.
8. ROOF DECK SHALL HAVE KYNAR 5000 METAL COATING.
9. ROOF DECK SHALL CONFORM TO ASTM A792, Fy = 50 KSI.
10. MR ROOF SCREWS MEET ASTM A510 WITH A HEAD DIMENSION OF 0.31" (FLAT-TO-FLAT) AND INTEGRAL WASHER DIMENSION OF 0.58" (OUTSIDE DIAMETER).
11. SS ROOF SCREWS MEET ASTM A510 WITH A HEAD DIMENSION OF 0.437" (OUTSIDE DIAMETER).

WELDING:

1. 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.
2. 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 @ (O° F).
3. ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO INSURE PROPER MATERIAL ID AND WELDING.
4. WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND SPECIFICATIONS.

BOLTING:

1. ALL BOLTS SHOWN ON THESE DRAWINGS ARE ASTM A325 HIGH STRENGTH BOLTS (UNO), TYPE 3.
2. HIGH STRENGTH BOLTS SHALL BE SAMPLED AND TESTED IN COMPLIANCE WITH CBC 2213A.1.
3. BEFORE ERECTING 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.
4. ANCHOR BOLTS (HEAVY HEX HEAD, ASTM F1554, GRADE 55) SHALL BE HOT DIPPED GALVANIZED PER ASTM F2329. ANCHOR BOLTS MAY BE HEADED OR THREADED WITH A NUT THAT IS PREVENTED FROM ROTATING.
5. HIGH STRENGTH NUTS SHALL CONFORM TO ASTM A563.
6. HIGH STRENGTH WASHERS SHALL CONFORM TO ASTM F436.
7. 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 ERECTION 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 341-10 J7; AISC 360-10 N5.6.
   - A. PRETENSIONED JOINTS (IDENTIFIED ON THE FRAME CONNECTION DETAILS WITH A "PJ REQUIRED") MUST BE INSTALLED AND INSPECTED TO MEET ONE OF FOLLOWING REQUIREMENTS:
     1. TURN-OF-NUT PRETENSIONING
     2. CALIBRATED WRENCH PRENTENSIONING
     3. DIRECT-TENSION-INDICATOR PRETENSIONING (CONTRACTOR RESPONSIBLE FOR PURCHASE OF REQUIRED WASHERS)
   - B. ALL OTHER JOINTS MUST BE INSTALLED AND INSPECTED TO MEET THE REQUIREMENTS OF SNUG-TIGHTENED JOINTS. **NOTE TO INSTALLER AND INSPECTOR(S): THE SNUG-TIGHT CONDITION EXISTS, IN PART, WHEN ALL THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT THE REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.**

   THE CONTRACTOR, SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD MUST ALL AGREE ON WHICH APPROACH WILL BE USED TO PRETENSION THE BOLTS. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THE APPROACH AGREED TO BY ALL PARTIES LISTED ABOVE.

FOUNDATIONS:

4. ALLOWABLE SOIL PRESSURES ASSUME CLASS 4 SOIL CLASSIFICATION PER CBC TABLE 1806A.
2. **A GEOTECHNICAL REPORT / LETTER IS REQUIRED AT THE OVER-THE-COUNTER APPOINTMENT FOR EACH PROJECT.**
3. FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D1557-70. FLOODING NOT PERMITTED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECCESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.

CONCRETE:

1. MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

STRENGTH f'c (28 DAYS)	W/C RATIO (NON-AIR ENTRAINED)	W/C RATIO (AIR ENTRAINED)	SLUMP (± 1")	UNIT WEIGHT (NORMAL WEIGHT)
5000 PSI	0.63	0.55	3"	150 PCF

2. CHANGES TO THE MIX DESIGN MUST BE APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD AND DSA
3. AGGREGATES SHALL CONFORM TO ASTM C33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN .005. MAX AGGREGATE SIZE = 1".
4. CEMENT SHALL CONFORM TO ASTM C150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
5. 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.
6. CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
7. CONCRETE SHALL BE PROPORTIONED PER CBC ACI 318-11 5.2.
8. CONCRETE SHALL BE TESTED PER CBC 1905A.1.2, 1913A.1, 1705A.3, AND ACI 318-11 5.6.

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A615, (DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A305) AS FOLLOWS:
   GR 60: (#4 BARS AND LARGER)
   GR 40: (#3 BARS)
2. DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
3. MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
   - A. CAST AGAINST EARTH.. 3"
   - B. CAST AGAINST FORM BELOW GRADE.................... 2"
   - C. FORMED SLABS (#11 BAR & SMALLER).................... 3/4"
   - D. SLABS ON GRADE (FROM TOP OF SLAB).................. 1"
   - E. COLUMNS AND BEAMS (MAIN BARS)...................... 2"
   - F. WALLS EXPOSED TO WEATHER (#6-#18 BARS)......... 2"
     (#5 & SMALLER)......... 11/2"
   - G. NOT EXPOSED TO WEATHER (#11 & SMALLER)........ 3/4"
4. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
5. REINFORCING SHALL BE LAP SPLICED 45 BAR DIA. MINIMUM IN CONCRETE AND MUST COMPLY WITH ACI 318-11.
6. PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
7. WELDING OF REINFORCING IS NOT ALLOWED
8. REINFORCING STEEL SHALL BE SAMPLED AND TESTED PER CBC 1913A.2.

POWDER COATED AND EPOXY PRIMED FINISH:

1. ENTIRE POWDER COATING PROCESS COMPLETED IN SAME FACILITY AS STEEL FABRICATION.
2. ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES, ETC.) PAINTED WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE" AND THE "AISC SPECIFICATION SECTION M3" (UNLESS NOTED OTHERWISE).
3. PARTS PRETREATED IN A 3 STAGE IRON PHOSPHATE WASHER (OR EQUAL).
4. EPOXY PRIMER POWDER COAT APPLIED TO PARTS FOR SUPERIOR CORROSION PROTECTION.
5. TOP POWDER COAT OF SUPER DURABLE TGIC (COLOR SELECTED FROM MANUFACTURER'S STANDARD OPTIONS OR CUSTOM COLOR).
6. SAMPLE PRODUCTION PARTS TESTED TO MEET THE FOLLOWING CRITERIA:
   - A. SALT SPRAY RESISTANCE PER ASTM B 117/ ASTM D 1654
     1. 10000 HOURS WITH NO CREEP FROM SCRIBE LINE AND RATING OF 10
   - B. HUMIDITY RESISTANCE PER ASTM D2247-02
     1. 5000 HOURS WITH NO LOSS OF ADHESION OR BLISTERING
   - C. COLOR/UV RESISTANCE PER ASTM G154-04
     1. 2000 HOURS EXPOSURE ALTERNATE CYCLES WITH NO CHALKING, 75% COLOR RETENTION, AND COLOR VARIATION MAXIMUM 3.0 E VARIATION CIE FORMULA (BEFORE AND AFTER 2000 HOURS EXPOSURE

ABBREVIATIONS:

ACI	AMERICAN CONCRETE INSTITUTE	MR	MULTI-RIB ROOF PANEL (MCELROY)
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	NTS	NOT TO SCALE
ASM	ASSEMBLY (INTERNAL REFERENCE)	NO	NUMBER
ASTM	AMERICAN SOCIETY FOR TESTING AND MAT'LS	OC	ON CENTER
AWS	AMERICAN WELDING SOCIETY	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADM.
CBC	CALIFORNIA BUILDING CODE	PCF	POUNDS PER CUBIC FOOT
CJP	COMPLETE JOINT PENETRATION	PD	POLIGON DRAWING
CLR	CLEAR	PJ	PRETENSIONED JOINT
DEG	DEGREE	PLCS	PLACES
DIA	DIAMETER	PLT	PLATE
DIM	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
MPH	MILES PER HOUR		

INSTRUCTIONS FOR ARCHITECTS SUBMITTING THESE PRE-CHECKED DRAWING TO DSA:

BEFORE SUBMITTING THESE PRE-CHECKED DRAWINGS FOR YOUR PROJECT, FOLLOW THE STEPS BELOW TO PROPERLY DEFINE THE APPROVED OPTIONS:
THE POLIGON ENGINEERING DEPARTMENT IS AVAILABLE TO HELP YOU COMPLETE THESE STEPS (616-399-1963).

STEP 1: SELECT FRAME DIMENSIONS FOR YOUR PROJECT
- STRUCTURES UP TO 20' WIDE USE THE "SQR 20" BASE FRAME
- STRUCTURES UP TO 30' WIDE USE THE "SQR 30" BASE FRAME
- THE 20' AND 30' WIDTHS ARE SUGGESTED BECAUSE THEY ARE THE MOST ECONOMICAL
- MAXIMUM WIDTH IS 30'; (SEE 'ARCHITECTURAL VIEWS' SHEET FOR REFERENCE)

STEP 2: SELECT ROOF DECK FOR YOUR PROJECT
- "MR" REPRESENTS MCELROY METAL "MULTI-RIB" ROOF DECK
- "SS" REPRESENTS MCELROY METAL "MEDALLION-LOK" 16" STANDING SEAM ROOF DECK

STEP 3: IDENTIFY THE Ss ACCELERATION (g) FOR YOUR PROJECT
- Ss VALUE DETERMINES THE REQUIRED SEISMIC DESIGN FORCES
- Ss VALUE DEPENDS ON THE PROJECT'S GEOGRAPHICAL LOCATION (VALUES RANGE FROM 0.00 TO 3.73)
  - FIND Ss VALUES FOR YOUR PROJECT ON THE USGS WEBSITE (SEARCH INTERNET FOR "USGS SEISMIC DESIGN MAPS")
- THIS PC IS NOT APPROVED FOR Ss VALUES GREATER THAN 3.00 (CONTACT POLIGON FOR ADDITIONAL OPTIONS)

STEP 4: IDENTIFY THE Ss REGION FOR YOUR PROJECT
- THE REGIONS ARE DEPENDANT ON THE Ss VALUE DETERMINED IN STEP 3
- REFERENCE DSA BU 14-01 FOR A MAP OF VARIOUS Ss REGIONS
- THE Ss REGION DICTATES THE MAXIMUM DEAD LOAD PERMITTED ON THE FRAME (SEE TABLE TO THE RIGHT)

STEP 5: IDENTIFY THE ROOF DEAD LOAD FOR YOUR PROJECT
- THE ROOF DECK DEAD LOAD WILL ALWAYS BE INCLUDED
- THE COLLATERAL LOAD REPRESENTS ADDITIONAL LOAD THAT CAN BE SUPPORTED BY THE FRAME
- BE SURE THE TOTAL ROOF DEAD LOAD FOR YOUR PROJECT IS LESS THAN OR EQUAL TO THE MAX DEAD LOAD SHOWN IN STEP 4

STEP 6: IDENTIFY THE FOUNDATION REQUIREMENTS FOR YOUR PROJECT
- REFERENCE THE Ss REGION (STEP 4) AND THE TOTAL ROOF DEAD (STEP 5)
- IDENTIFY **A SINGLE** LOAD SCENARIO
  - E.G. A PROJECT IN THE WHITE Ss REGION WITH A 4 PSF ROOF DEAD LOAD IS LOAD SCENARIO 2
  - LOAD SCENARIOS HAVE NO IMPACT ON FRAME DESIGN OR COST (BUT DO AFFECT FOUNDATION SIZE)
- SELECT **EITHER** SPREAD PAD OR DRILLED PIER FOUNDATION
  - FOUNDATION TYPE IMPACTS STEEL FABRICATION (COLUMN LENGTH) AND CONSTRUCTION (TIMING, SEQUENCE, COST, ETC.)
  - POLIGON CAN REVIEW THE SITE-SPECIFIC SOILS REPORT TO EVALUATE THE POSSIBILITY OF SMALLER FOUNDATIONS

STEP 1 – FRAME DIMENSIONS

	SUGGESTED			OTHER	
FRAME WIDTH	X 20'	□ 30'		□	(30' MAX)

STEP 2 – ROOF DECK

ROOF DECK TYPE	X MR	□ SS

STEP 3 – Ss ACCELERATION (g)

2.848

STEP 4 – Ss REGIONS[1]

		Ss REGIONS	MAX DEAD LOAD
DESCRIPTION	□ WHITE	0.000 < Ss <= 1.875	5 PSF
	□ BLUE	1.875 < Ss <= 2.500	3.5 PSF
	□ GREEN	2.500 < Ss <= 2.750	2 PSF
	X YELLOW	2.750 < Ss <= 3.000	2 PSF

[1] REFERENCE DSA BU 14-01 FOR A MAP OF VARIOUS Ss REGIONS

STEP 5 – TOTAL ROOF DEAD LOAD

	DEAD LOAD	EXAMPLES
ROOF DECK	1.2 PSF	MR = 1.2 PSF ; SS = 1.8 PSF (SEE STEP 2)
COLLATERAL[1]	0.__ PSF	LIGHTING, FIRE SUPPRESSION, PV PANELS, ETC.
TOTAL[2]	1.2 PSF	ADD ROOF DECK AND COLLATERAL LOADS

[1] PROVIDE DSA WITH EVIDENCE THAT THE COLLATERAL LOAD FOR YOUR PROJECT MEETS THESE REQUIREMENTS
[2] MAY NOT EXCEED REQUIREMENTS LISTED IN STEP 6 BELOW

STEP 6 – FOUNDATION REQUIREMENTS

Ss REGION	DEAD LOAD (DL)	LOAD SCENARIO	SPREAD PAD	DRILLED PIER
WHITE	DL <= 2 PSF	□ LOAD SCENARIO 1	□	X
	2 PSF < DL <= 5 PSF	□ LOAD SCENARIO 2		
BLUE	DL <= 3.5 PSF	□ LOAD SCENARIO 3		
GREEN	DL <= 2 PSF	□ LOAD SCENARIO 4		
YELLOW	DL <= 2 PSF	X LOAD SCENARIO 4		

STEP 7: SELECT MISCELLANEOUS OPTIONS FOR YOUR PROJECT
- MAXIMUM CLEAR HEIGHT IS 10'-0"; (SEE 'ARCHITECTURAL VIEWS' SHEET FOR REFERENCE)
- MARK UP PC DRAWINGS WITH SIZE AND LOCATION OF CUTOUTS BEFORE SUBMITTING TO DSA

STEP 8: SELECT APPLICABLE SHEET INDEX FOR YOUR PROJECT
- REFERENCE THE BASE FRAME (STEP 1) AND THE ROOF DECK TYPE (STEP 2)
- IDENTIFY THE APPLICABLE SHEET INDEX

STEP 9: INCLUDE APPLICABLE SHEETS WITH YOUR DSA SUBMITTAL
- EXCLUDE 'MISC DESIGN OPTIONS' SHEET FOR PROJECTS WITHOUT ELECTRICAL CUTOUTS OR GUTTERS

STEP 10: IDENTIFY PROJECT NAME AND SCHOOL DISTRICT

PROJECT NAME:
VERDUGO WOODLAND ELEMENTARY SHADE STRUCTURE

SCHOOL DISTRICT:
GLENDALE UNIFIED SCHOOL DISTRICT

STEP 7 – MISCELLANEOUS

	DESIGN OPTIONS		
CLEAR HEIGHT	X 10'-0"	□	(10' MAX)
ELECTRICAL CUTOUTS	□ YES	X NO	
GUTTERS	X YES	□ NO	

STEP 8 – SHEET INDEX

BASE FRAME	SQR 20		SQR 30	
ROOF DECK	MR	SS	MR	SS
SELECT ONE	X	□	□	□
GENERAL NOTES	PD1.0	PD1.0	PD1.0	PD1.0
SPECIAL INSPECTIONS	PD1.1	PD1.1	PD1.1	PD1.1
FOUNDATION PLAN	PD2.0	PD2.0	PD2.1	PD2.1
FRAMING PLAN	PD3.0	PD3.0	PD3.1	PD3.1
FRAME CONNECTION DETAILS	PD4.0	PD4.0	PD4.1	PD4.1
SECTION DETAILS	PD5.0	PD5.0	PD5.1	PD5.1
PLATE DETAILS	PD6.0	PD6.0	PD6.1	PD6.1
ARCHITECTURAL VIEWS	PD7.0	PD7.0	PD7.1	PD7.1
ROOF CONNECTION DETAILS	PD8.0	PD8.1	PD8.0	PD8.1
MISC DESIGN OPTIONS	PD9.0	PD9.0	PD9.0	PD9.0

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 118702
AC FLS SS
Date JAN 10 2018

REGISTERED PROFESSIONAL ENGINEER THOMAS A. BURKHART No. S4378 Exp. 3/31/16 STRUCTURAL STATE OF CALIFORNIA

CARLTON Engineering Inc.

poligon

STATE APPROVALS
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 113594

PRE-CHECK (PC) DOCUMENT
CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

GENERAL NOTES
SQUARE (SQR)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51459

PD1.0

2014A

SPECIAL INSPECTION:

1. THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE SELECTED BY THE SCHOOL DISTRICT AND APPROVED BY DSA AND THE ARCHITECT OF RECORD.
2. COSTS OF THE PROJECT INSPECTOR AND THE TESTING AGENCY SHALL BE BORN BY THE SCHOOL DISTRICT.
3. THE PROJECT INSPECTOR, AND ENTIRE CONSTRUCTION OVERSIGHT PROCESS, SHALL COMPLY WITH DSA PR 13-01.
4. ON APPROVED PC DRAWINGS, THE STATEMENT OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS (FORM DSA-103) BELOW IS ONLY AN EXAMPLE. ON APPROVED PC DRAWINGS, THE EXAMPLE FORM DSA-103 MUST BE CROSSED OUT BEFORE THE PC DRAWINGS CAN BE APPROVED AS PART OF A SITE-SPECIFIC (OR STOCKPILE) PROJECT SO THEY WILL NOT CONFLICT WITH THE OFFICIAL FORM DSA-103 FOR THE PROJECT.

DSA DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES

DSA-103 rev 12/20/13

Statement of Structural Tests & Special Inspections - 2013 CBC

INCREMENT #
DSA File No.: PC-1
Application No.: 02-113594
Date Submitted:
Revised:
Revised:

School Name	EXAMPLE - REMOVE ON SITE-SPECIFIC PROJECTS	District	EXAMPLE - REMOVE ON SITE-SPECIFIC PROJECTS

IMPORTANT: This form is only a summary list of structural tests and special inspections required for the project. The actual tests and inspections must be performed as detailed on the DSA approved documents. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A.
NOTE: This form is also available for projects submitted for review under the 2007 and 2010 CBC.

INSTRUCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional tests and special inspections. An "X" before a listed test or inspection indicates it is a mandatory requirement. A shaded box indicates a test or special inspection that may be required, depending on the scope of the construction and other issues. A shaded box can be clicked indicating your selection of that test. **Note:** A minus (-) on a category or subcategory heading indicates that it can be collapsed. However, any selections you may have made will be cleared. Click on the "COMPILE" button to show only the tests finally selected. **For more information on use of this form, see DSA-103.INSTR.**

Note: References are to the 2013 edition of the California Building Code (CBC) unless otherwise noted.

REQUIRED	TEST OR SPECIAL INSPECTION	TYPE[1]	PERFORMED BY[2]	CODE REFERENCE AND NOTES
-	**SOILS**			
	1. GENERAL:	Table 1705A.6		
X	a. Verify that: • site has been prepared properly prior to placement of controlled fill and/or excavations for foundations, • foundation excavations are extended to proper depth and have reached proper material, and • materials below footings are adequate to achieve the design bearing capacity.	Periodic	GE*	* By geotechnical engineer or his or her qualified representative.
-	**4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):**	Table 1705A.7		
X	a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
X	b. Verify locations of piers.	Continuous	PI	
X	c. Confirm pier diameters, plumbness, bell diameters (if applicable), lengths, and embedment into bedrock (if applicable). Record concrete or grout volumes.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
X	e. Concrete piers.	Provide tests and inspections per CONCRETE section below.		
-	**CONCRETE**	Table 1705A.3		
-	**7. CAST IN PLACE CONCRETE**			
	Material Verification and Testing:			
X	a. Verify use of required design mix.	Periodic	SI & PI*	* To be performed by batch-plant special inspector and project inspector.
X	b. Test reinforcing steel.	Test	Lab	**1913A.2** (1913.2.6⁺). ASTM A370. DSA IR 17-10
X	c. Perform slump, temperature, and (where required) air content tests.	Test	Lab	ASTM C172, ASTM C31.
X	d. Test concrete (compression).	Test	Lab	**ACI 318 Section 5.6 and 1905A.1.2** (1913.3.1⁺). ASTM C39.
X	g. Inspect placement of formwork, reinforcing steel, embedded items and concrete. Inspect curing and form removal.	Continuous	PI*	* May be performed by a special inspector when specifically approved by DSA.
+	**MASONRY**	TMS 402-11/ACI 530-11/ASCE 5-11 Table 1.19.3		
-	**STEEL**	Table 1705A.2.1		
-	**17. STRUCTURAL STEEL AND COLD-FORMED STEEL USED FOR STRUCTURAL PURPOSES**			
	Material Verification:			
X	a. Verify that all materials are appropriately marked and that: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements.	Periodic	*	* By special inspector when performed off-site; by project inspector for steel shipped directly to project site without welding or fabrication.
X	b. Test unidentified materials	Test	Lab	**2203A.1** (2203.1⁺). ASTM A370.
X	c. Examine seam welds of structural tubes and pipes	Periodic	SI*	* DSA IR 17-3.
	Inspection:			
X	d. Verify member locations, bracing and all details constructed in the field.	Continuous	PI	
X	e. Verify stiffener locations, connection tab locations and all construction details fabricated in the shop.	Periodic	SI	
-	**18. HIGH STRENGTH BOLTS:**			
	Material Verification of High-Strength Bolts, Nuts, and Washers:			
X	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA approved documents.	Periodic	SI	DSA IR 17-9
X	b. Test high-strength bolts, nuts and washers.	Test	Lab	**2213A.1** (2212.6.1⁺). ASTM F606, A370. DSA IR 17-8
	Inspection of High-Strength Bolt Installation:			
X	d. Slip-critical connections.	*	SI	* "Continuous" or "Periodic" depends on the tightening method used, DSA IR 17-9 and **1705A.2.1.**
-	**19. WELDING:**			DSA IR 17-3, AWS D1.1 and AWS D1.8 (AWS D1.3 for cold formed steel).
	Verification of Materials, Equipment, Welders, etc:			
X	a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	Periodic	SI	
X	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	
X	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.
-	**19.1 SHOP WELDING:**			
X	a. Inspect groove, multi-pass, and fillet welds > 5/16"	Continuous	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
X	b. Inspect single-pass fillet welds ≤ 5/16"	Periodic	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
+	**WOOD**			
+	**OTHER**			

1 Soils testing and Inspection: Geotechnical Verified Report - Form DSA-293
2 All Structural Testing: Laboratory Verified Report - Form DSA-291
3 Concrete Batch Plant Inspection: Special Inspection Verified Report - Form DSA-292
4 Shop Welding Inspection: Special Inspection Verified Report - Form DSA-292
5 HS Bolt Installation Inspection: Special Inspection Verified Report - Form DSA-292

KEY to Columns

1 Type -	2 Performed By -
Continuous – Indicates that a continuous special inspection is required	**GE** – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative
Periodic – Indicates that a periodic special inspection is required	**Lab** – Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1.
Test – Indicates that a test is required	**PI** – Indicates that the special inspection is to be performed by the project inspector
	SI – Indicates that the special inspection is to be performed by a special inspector

Name of Architect or Engineer in general responsible charge

THOMAS A. BURKHART
Name of Structural Engineer (When structural design has been delegated)

T.A. Burkhart 8/28/14
Signature of Architect or Structural Engineer — date

IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
APP. # 02-113594
AC N/A F/LS N/A SS
DATE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 118702
AC N FLS [illegible] SS [illegible]
Date JAN 10 2018

REGISTERED PROFESSIONAL ENGINEER
THOMAS A. BURKHART
No. S4378
Exp. 3/31/16
STRUCTURAL
STATE OF CALIFORNIA

CARLTON Engineering Inc.

poligon

STATE APPROVALS

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PRE-CHECK (PC) DOCUMENT
CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

SPECIAL INSPECTIONS
SQUARE (SQR)
PC DRAWINGS

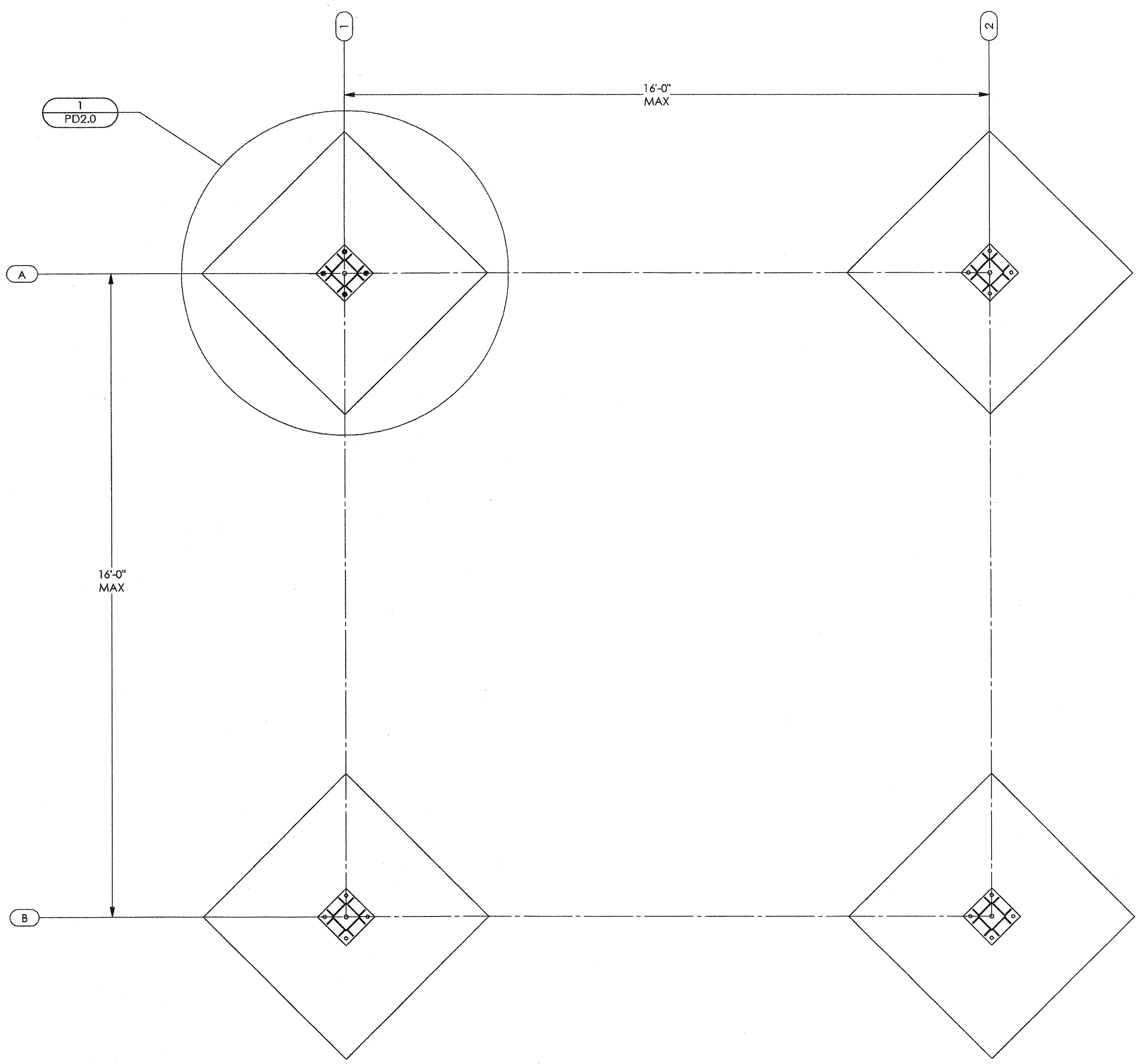
DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51459

PD1.1

2014A

FOUNDATION PLAN NOTES:

1. TOP OF ALL FOUNDATIONS MUST BE CONSTRUCTED AT ONE COMMON ELEVATION (COORDINATE WITH SITE PLANS - NOT BY POLIGON)
2. ALL FOUNDATIONS MUST BE CENTERED UNDER COLUMNS (UNO).
3. SEE SHEET PD1.0 FOR CONCRETE REQUIREMENTS.
4. PRIOR TO FORMING AND CASTING FOUNDATIONS, REVIEW FOUNDATION PLAN FOR REQUIRED ORIENTATION.
5. FOUNDATION MATERIAL AND INSTALLATION NOT BY POLIGON.
6. VIBRATE CONCRETE FULL DEPTH OF FOUNDATION.
7. FOR DRILLED PIER FOUNDATIONS, PREVENT SOIL FROM ENTERING EXCAVATED HOLE (FORM, ETC).

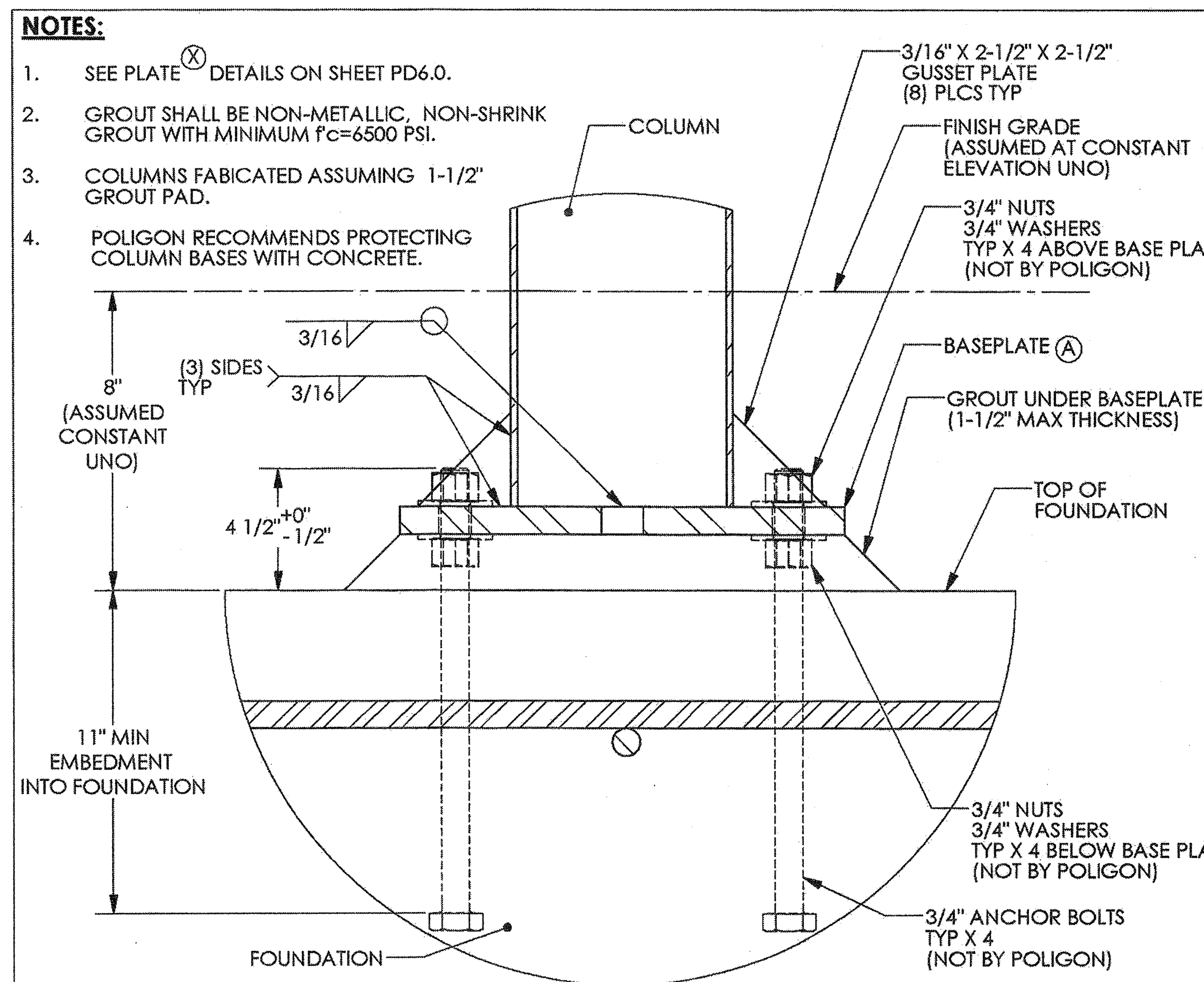


FOUNDATION PLAN (SPREAD PAD)

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

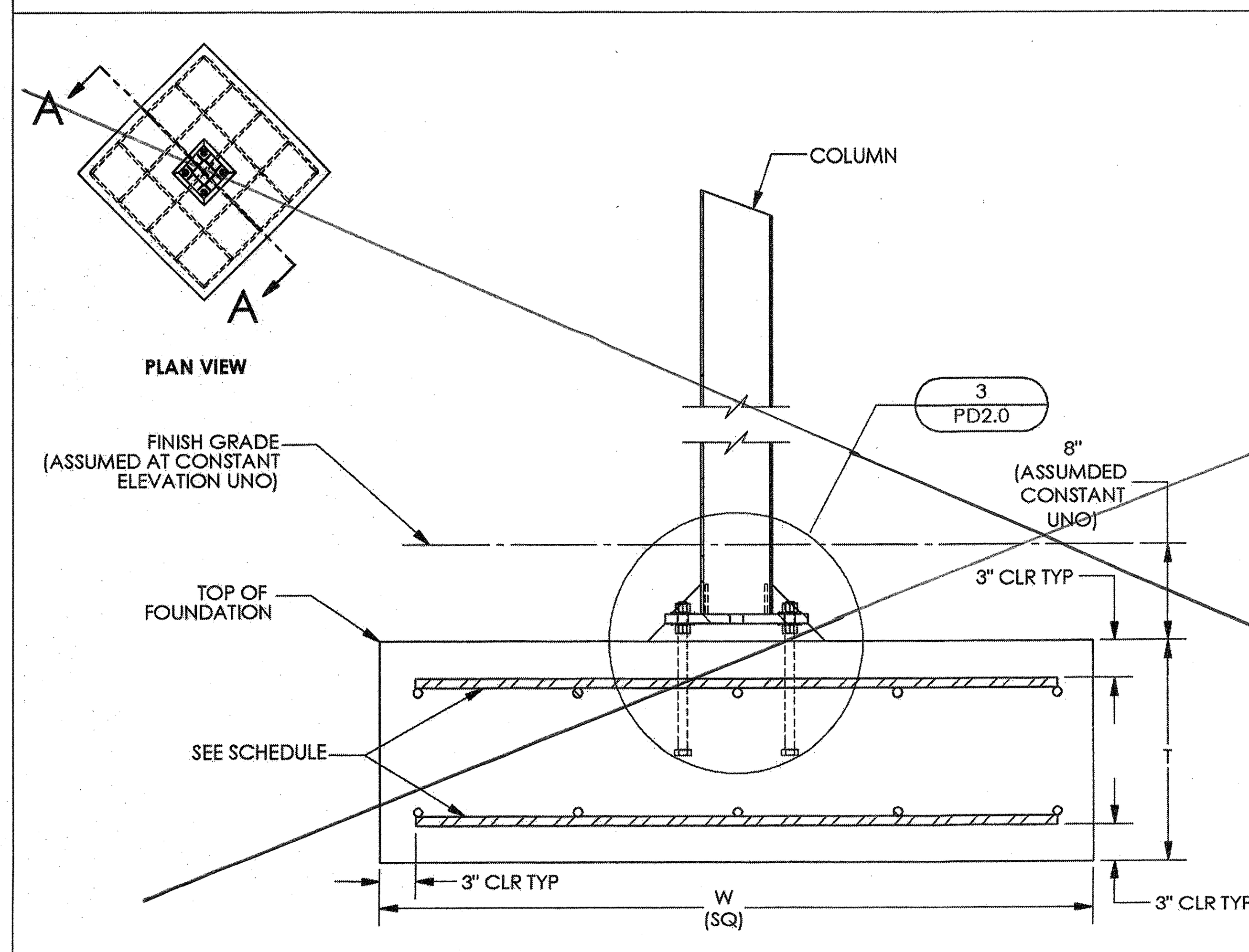
NOTES:

1. SEE PLATE (X) DETAILS ON SHEET PD6.0.
2. GROUT SHALL BE NON-METALLIC, NON-SHRINK GROUT WITH MINIMUM f'c=6500 PSI.
3. COLUMNS FABICATED ASSUMING 1-1/2" GROUT PAD.
4. POLIGON RECOMMENDS PROTECTING COLUMN BASES WITH CONCRETE.



COLUMN BASE PLATE AND ANCHOR BOLTS

3



FOUNDATION REQUIREMENTS VARY PER PROJECT

SEE SHEET PD1.0 FOR REQUIRED LOAD SCENARIO AND FOUNDATION TYPE (STEP 6 OF 'INSTRUCTIONS')

ONLY REFERENCE COPY OF PC DRAWINGS SUBMITTED FOR THIS PROJECT

SPREAD PAD

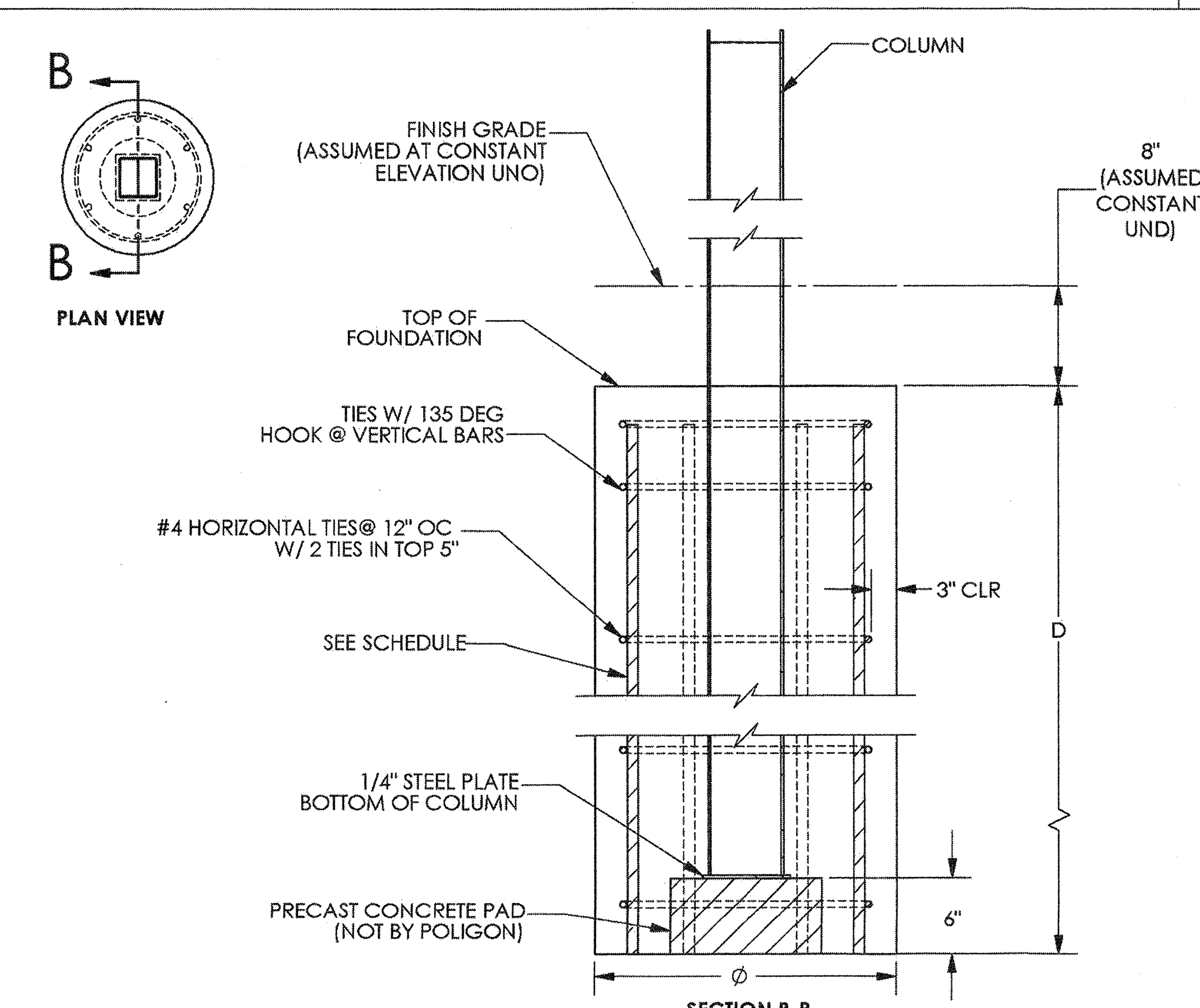
SIZE AND REINFORCING REQUIREMENTS

LOAD SCENARIO	WIDTH (W)	THICKNESS (T)	HORIZONTAL REINFORCING[1]	
			QTY	SIZE
1	5'-0"	1'-6"	5	#6
2	5'-6"	1'-6"	5	#6
3	6'-6"	1'-6"	6	#6
4	7'-0"	1'-6"	7	#6

[1] EQUALLY SPACED EACH WAY, TOP AND BOTTOM

SPREAD PAD FOUNDATION

1



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 118702
AC JW FLS EY SS FKL
DATE JAN 10 2018

FOUNDATION REQUIREMENTS VARY PER PROJECT

SEE SHEET PD1.0 FOR REQUIRED LOAD SCENARIO AND FOUNDATION TYPE (STEP 6 OF 'INSTRUCTIONS')

ONLY REFERENCE COPY OF PC DRAWINGS SUBMITTED FOR THIS PROJECT

DRILLED PIER

SIZE AND REINFORCING REQUIREMENTS

LOAD SCENARIO	DIAMETER (Ø)	DEPTH (D)	VERTICAL REINFORCING[1]	
			QTY	SIZE
1	2'-0"	8'-0"	6	#6
2	2'-0"	9'-0"	6	#6
3	2'-0"	9'-6"	6	#6
4	2'-0"	9'-6"	6	#6

[1] EQUALLY SPACED AROUND DRILLED PIER

PRIOR TO CONCRETE PLACEMENT, POLIGON STRONGLY RECOMMENDS ERECTING ENOUGH OF THE FRAME (E.G. BEAMS AND PURLINS) TO ENSURE ACCURATE COLUMN SPACING, ROTATION, AND VERTICALITY.

DRILLED PIER FOUNDATION (BURIED COLUMN)

2

REGISTERED PROFESSIONAL ENGINEER
THOMAS A. BURCH
No. S4378
Exp. 3/31/16
STRUCTURAL
STATE OF CALIFORNIA

CARLTON Engineering Inc.

poligon

STATE APPROVALS

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DIV. OF THE STATE ARCHITECT
02 113594
AC FLS SS
DATE 9-2-14

PRE-CHECK (PC) DOCUMENT

CODE: 2013 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

FOUNDATION PLAN

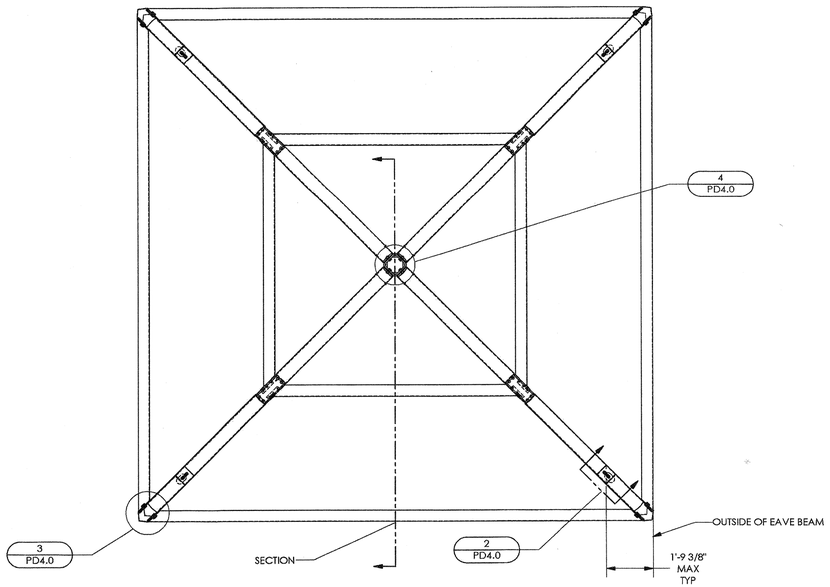
SQR 20

SQUARE (SQR)
PC DRAWINGS

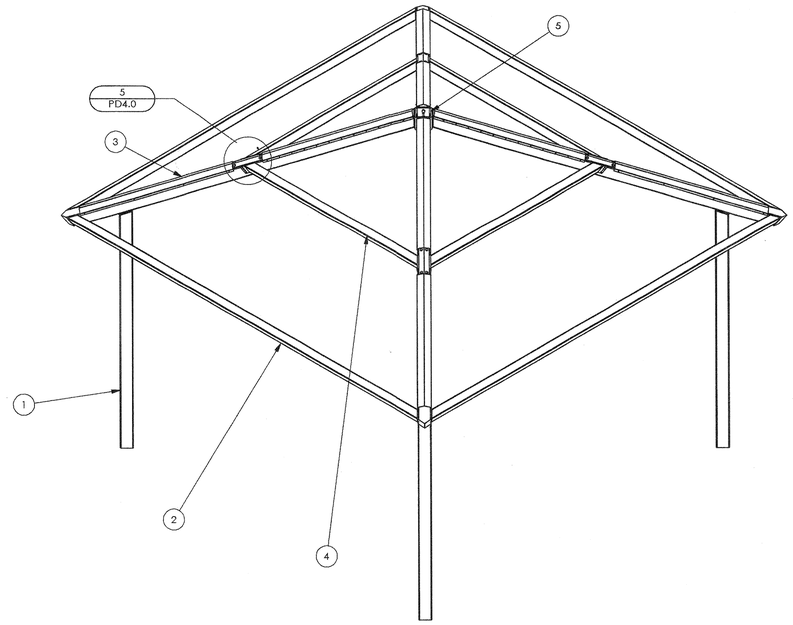
DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51459

PD2.0

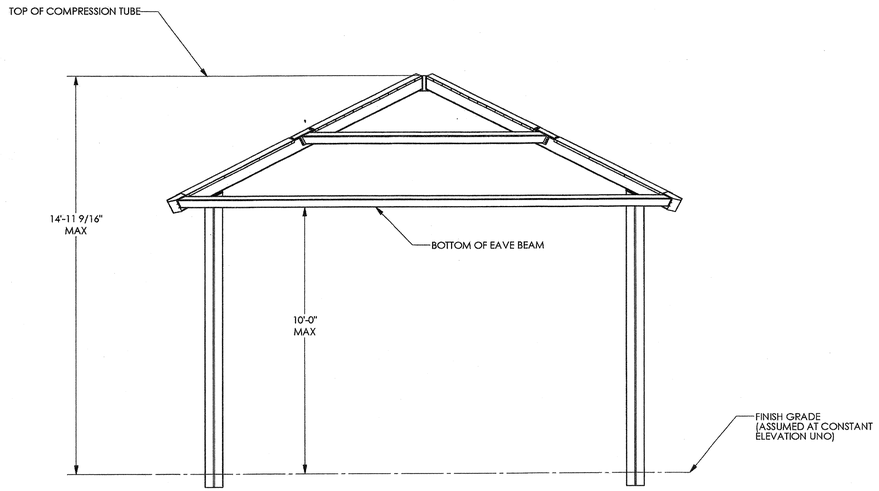
2014A



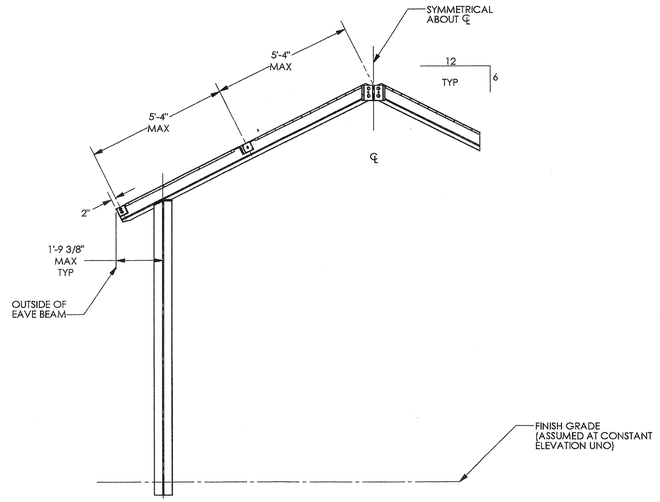
PLAN VIEW
SCALE: 3/8" = 1'-0"



ISOMETRIC VIEW
SCALE: 3/8" = 1'-0"



FRONT ELEVATION
SCALE: 3/8" = 1'-0"



SECTION
SCALE: 3/8" = 1'-0"

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AC FLS SS EEC
Date JAN 10 2018

ITEM	FRAME/QTY.	PART NO.	DESCRIPTION	MATERIAL
5	1	-	COMPRESSION TUBE ASM	HSS8X8X5/8
4	4	-	PURLIN ASM	HSS4X4X1/8
3	4	-	HIP BEAM ASM	HSS6X6X3/16
2	4	-	EAVE BEAM ASM	HSS4X4X1/8
1	4	-	COLUMN ASM	HSS6X6X3/16

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No. S4378
Exp. 3/31/16
STRUCTURAL
STATE OF CALIFORNIA

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02 119594
AC FLS SS EEC
DATE 3/2/16

PRE-CHECK (PC) DOCUMENT

CODE: 2013 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

FRAMING PLAN
SQR 20

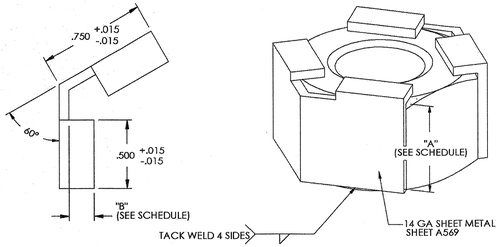
SQUARE (SQR)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51459

PD3.0

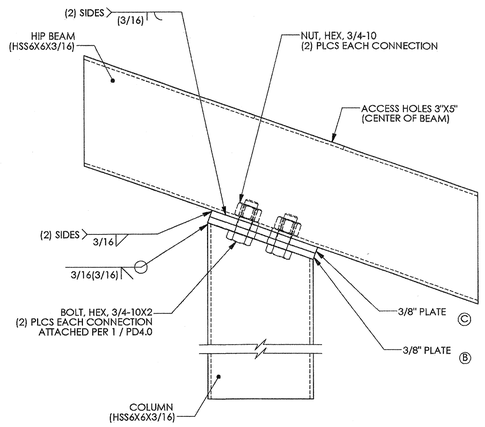
2014A

ALL HIDDEN NUTS AND BOLTS (INSTALLED IN SHOP DURING FABRICATION) ARE SECURED WITH THIS NUT AND BOLT RESTAINING SYSTEM.

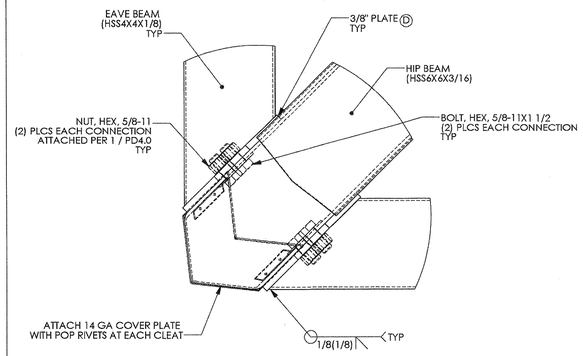


DIMENSION SCHEDULE				
FASTENER	DIM A		DIM B	
5/8" NUT	.631	+.000 -.015	.180	+.015 -.015
5/8" BOLT	.403	+.000 -.015	.250	+.015 -.015
3/4" NUT	.758	+.000 -.015	.180	+.015 -.015
3/4" BOLT	.483	+.000 -.015	.375	+.015 -.015
1" NUT	1.012	+.000 -.015	.180	+.015 -.015
1" BOLT	.643	+.000 -.015	.375	+.015 -.015

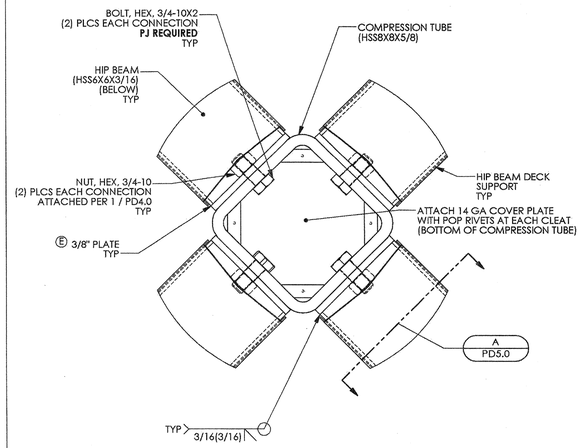
NUT & BOLT RESTRAINING SYSTEM — 1



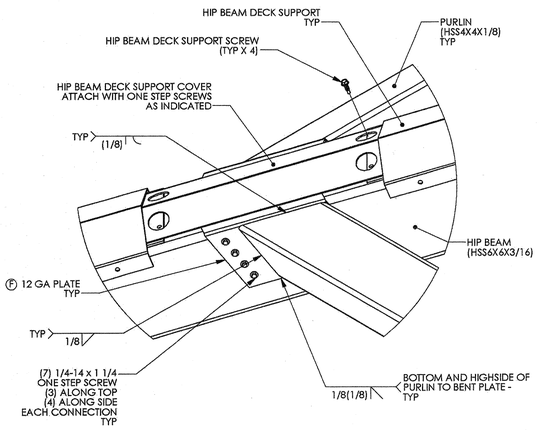
HIP BEAM CONNECTION @ COLUMN — 2



EAVE BEAM CONNECTION @ HIP BEAM — 3



HIP BEAM CONNECTION @ COMPRESSION TUBE — 4



PURLIN CONNECTION @ HIP BEAM — 5

FRAME CONNECTION DETAIL NOTES:

1. SEE SECTIONS ON SHEET PD5.0.
2. SEE PLATE ⓧDETAILS ON SHEET PD6.0
3. COVER ACCESS HOLES WITH GRACE ICE AND WATER SHIELD BEFORE ATTACHING ROOF DECK.

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THOMAS A. BURKETT
No. S4378
Exp. 3/31/16
STRUCTURAL
STATE OF CALIFORNIA

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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

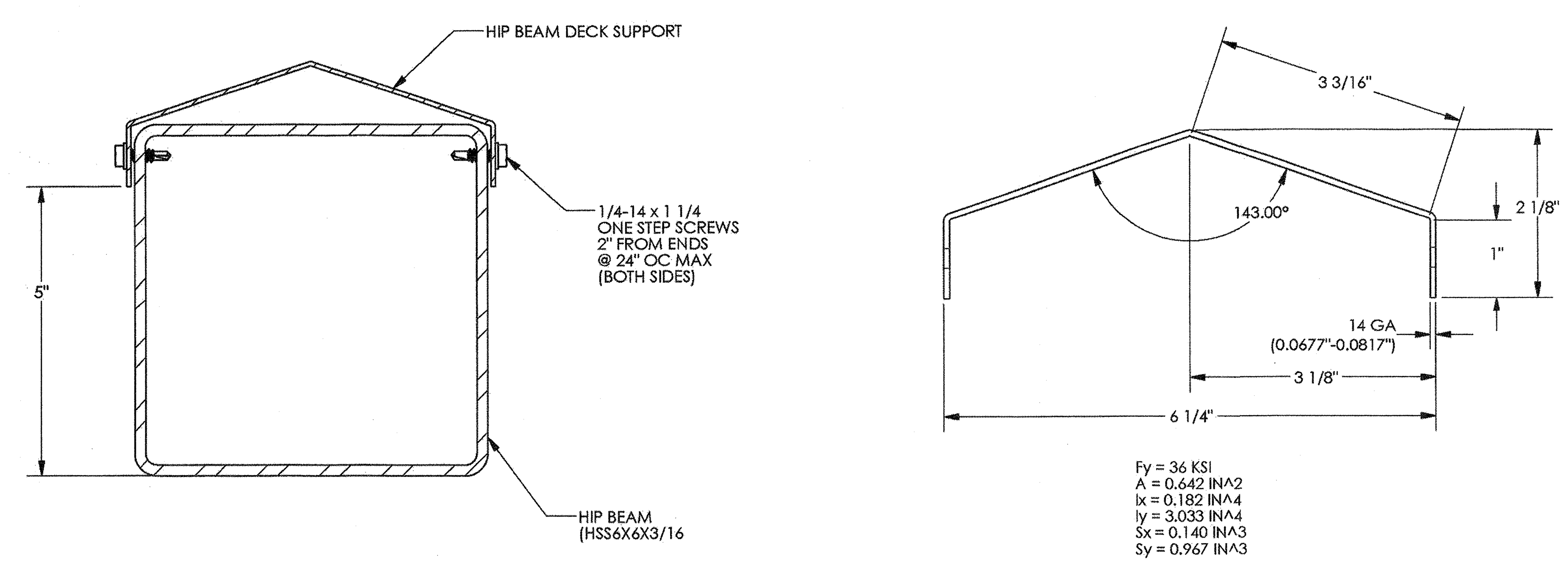
FRAME CONNECTION DETAILS
SQR 20

SQUARE (SQR)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51459

PD4.0

2014A



HIP BEAM DECK SUPPORT

A

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THOMAS A. BURCH
No. S4378
Exp. 3/31/16
STRUCTURAL
STATE OF CALIFORNIA

CARLTON Engineering Inc.

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CODE: 2013 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

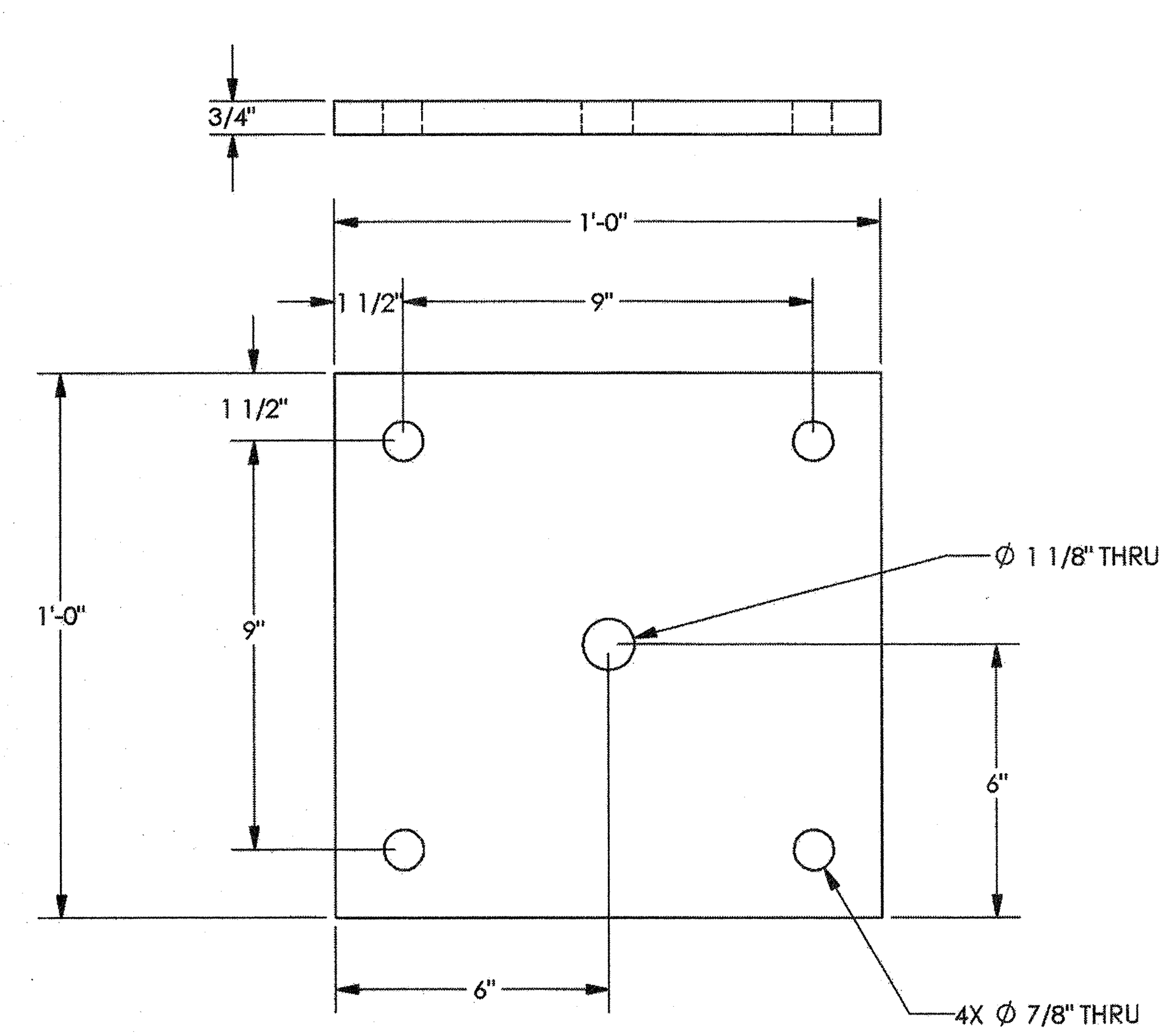
SECTION DETAILS
SQR 20

SQUARE (SQR)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51459

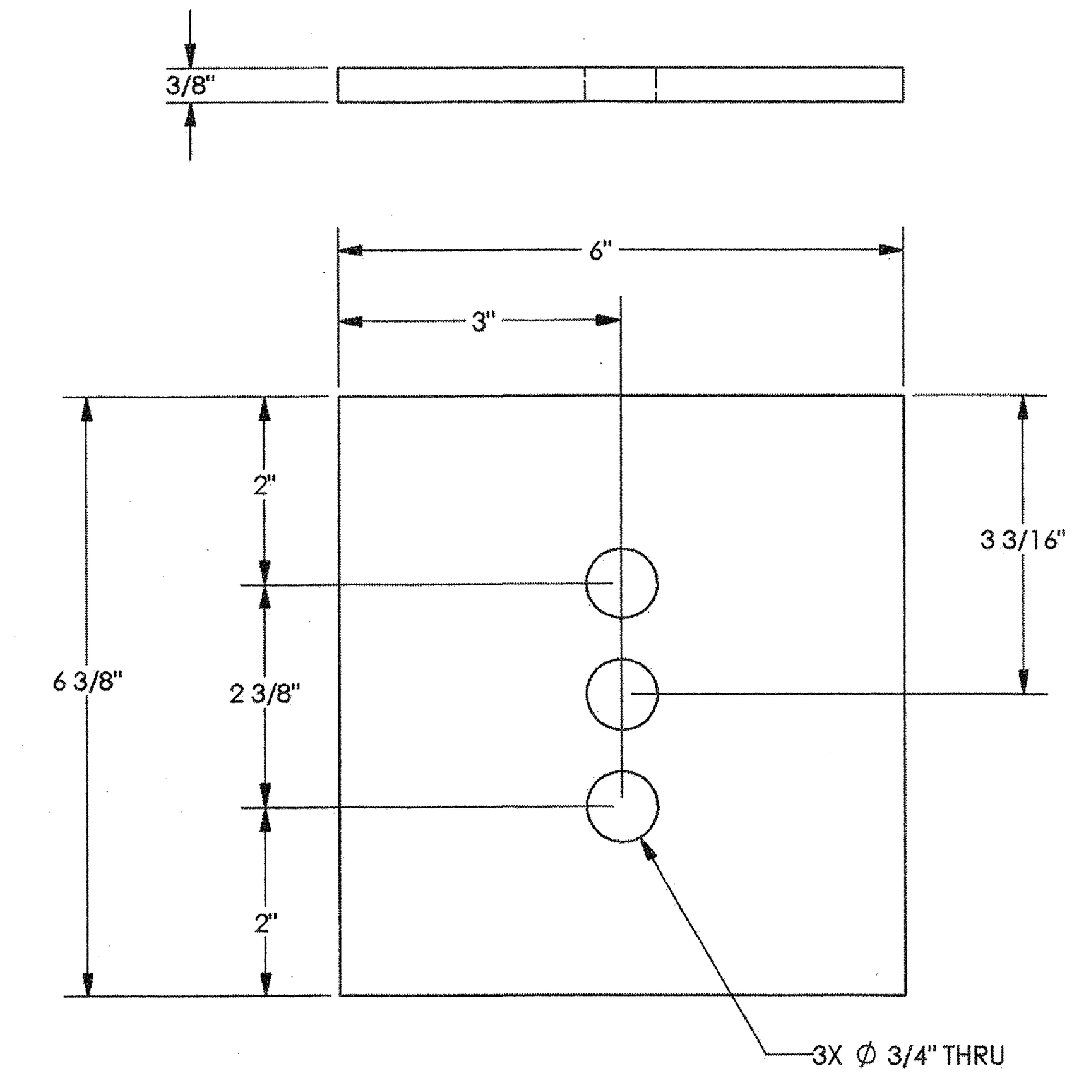
PD5.0

2014A



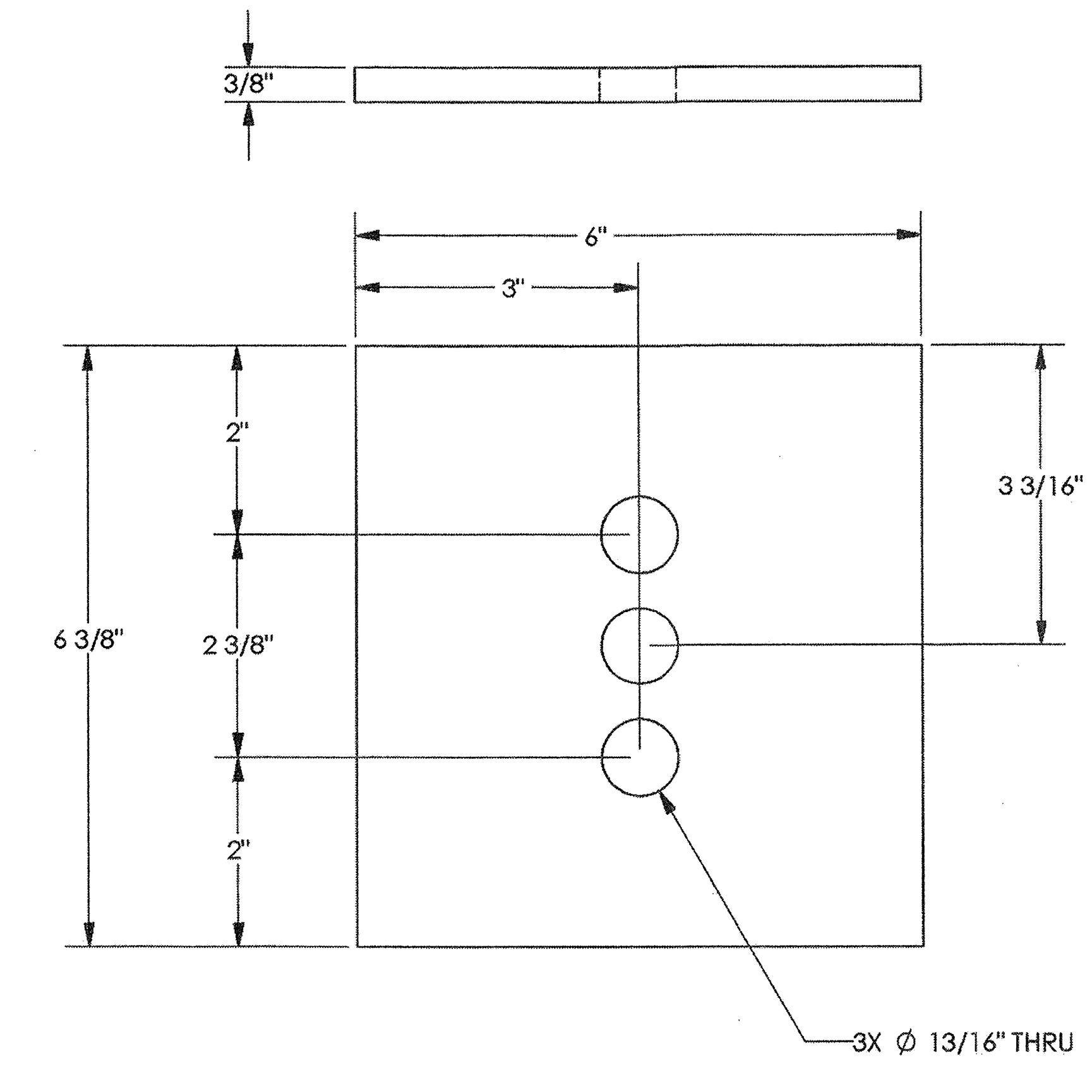
PLATE

A



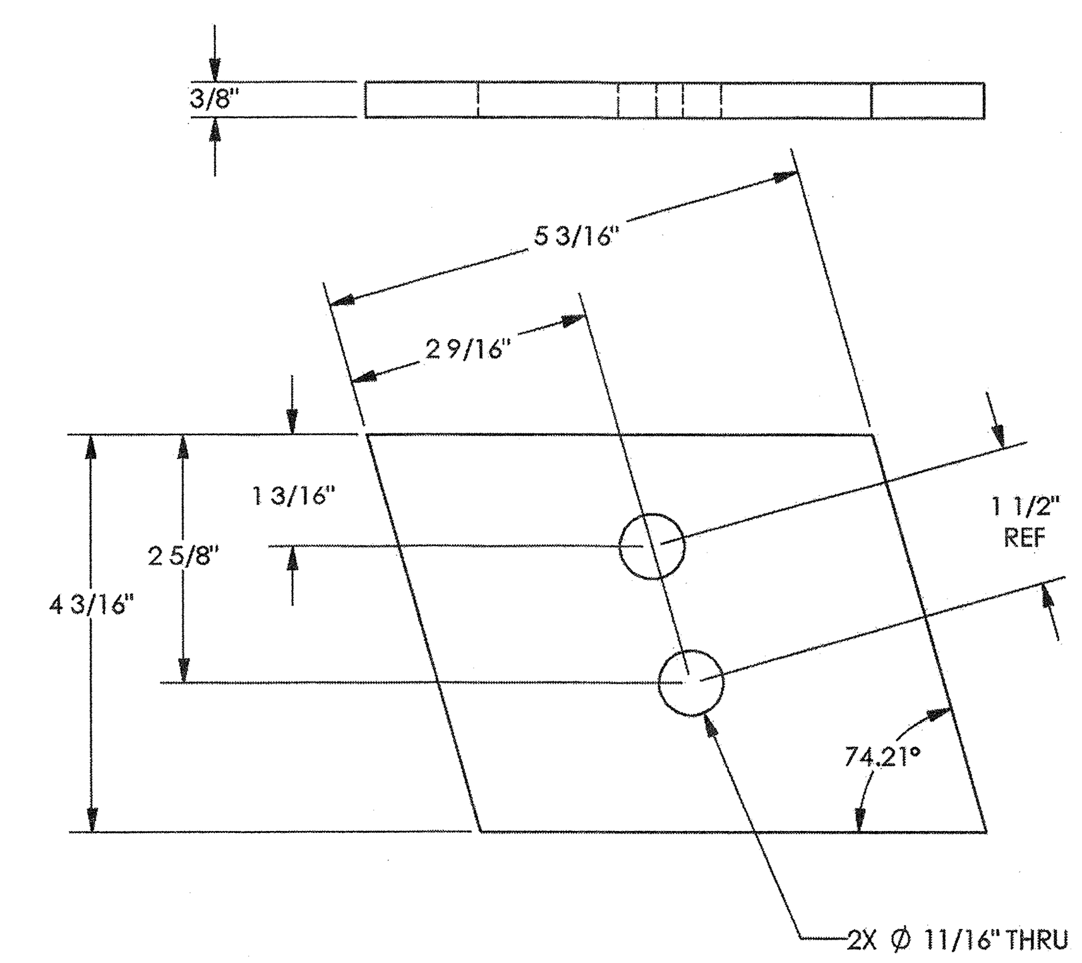
PLATE

B



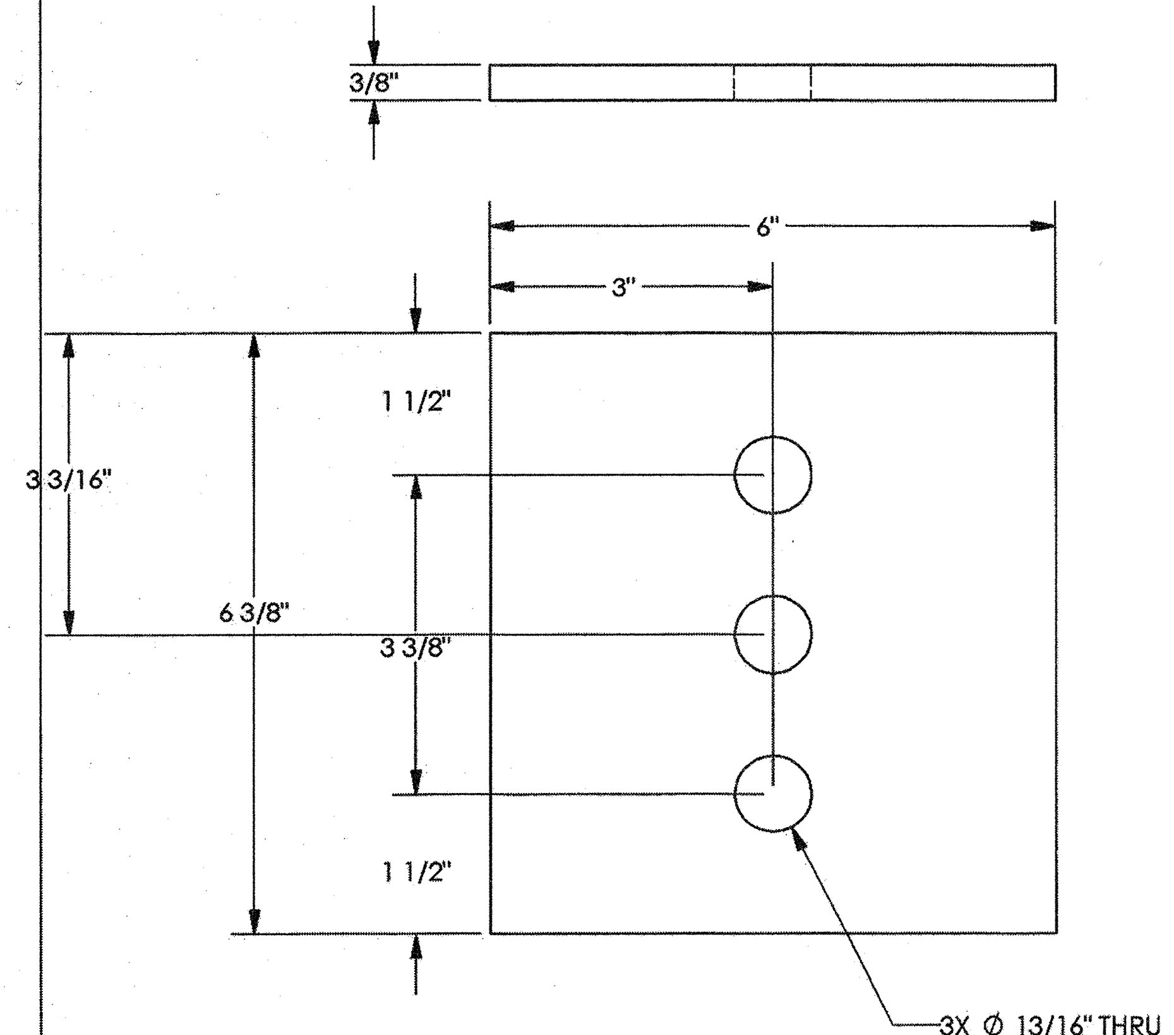
PLATE

C



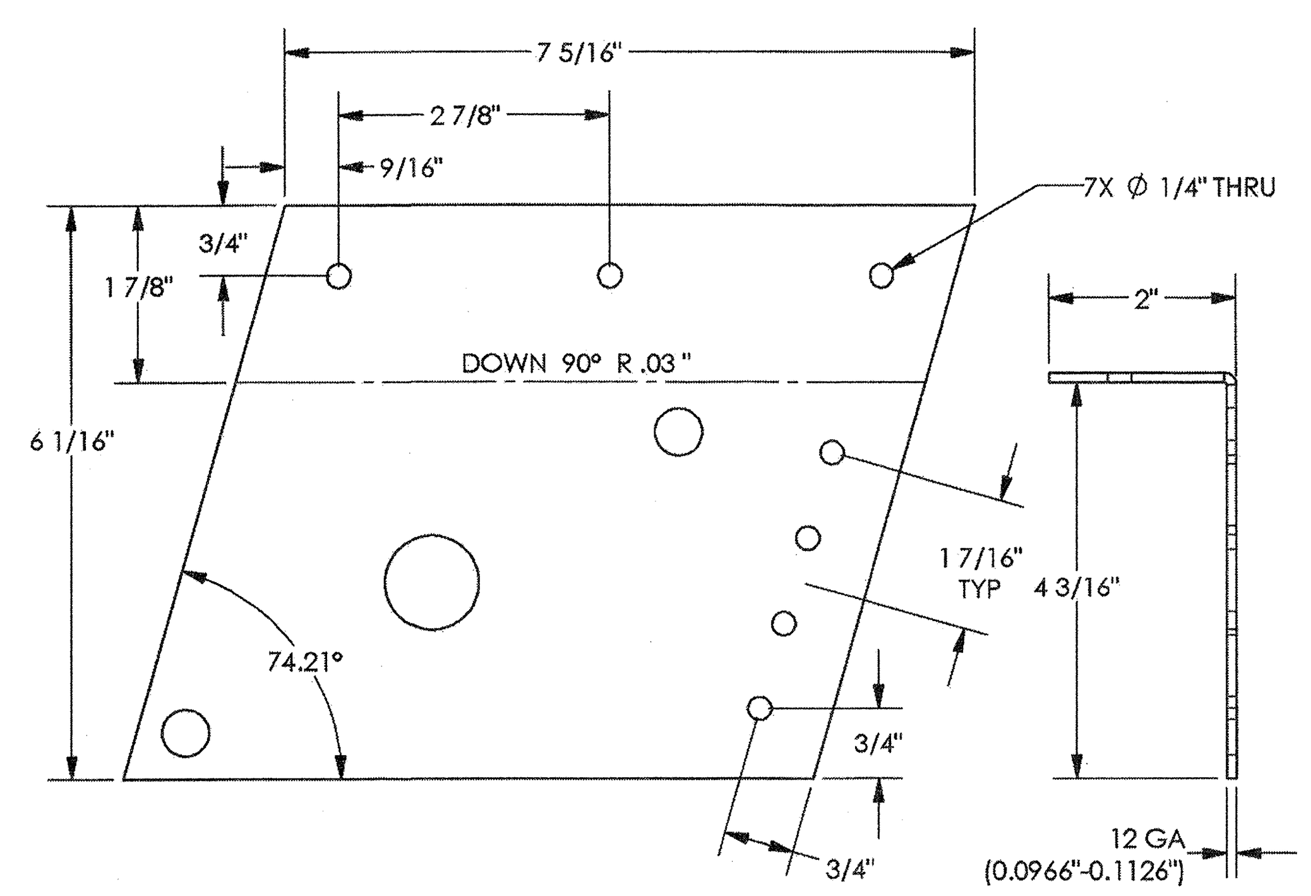
PLATE

D



PLATE

E



PLATE

F

REGISTERED PROFESSIONAL ENGINEER
THOMAS A. BURKART
No. S4378
Exp. 3/31/16
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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

PLATE DETAILS

SQR 20

SQUARE (SQR)
PC DRAWINGS

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CHECKED BY: CE
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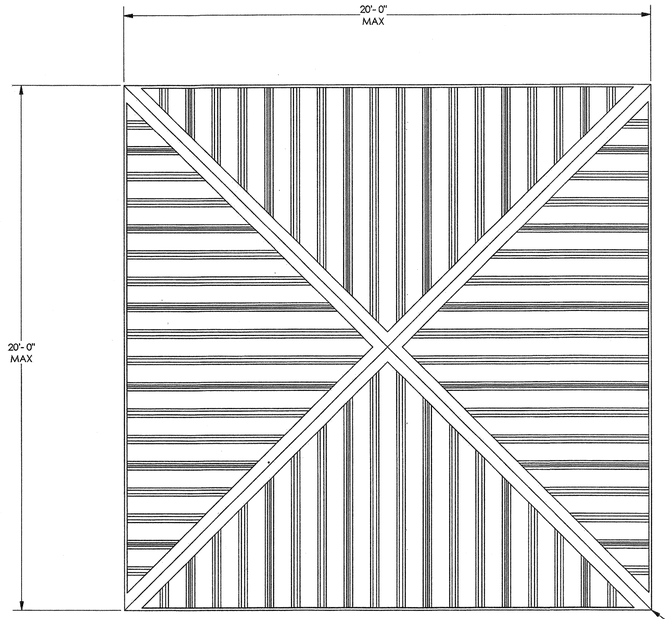
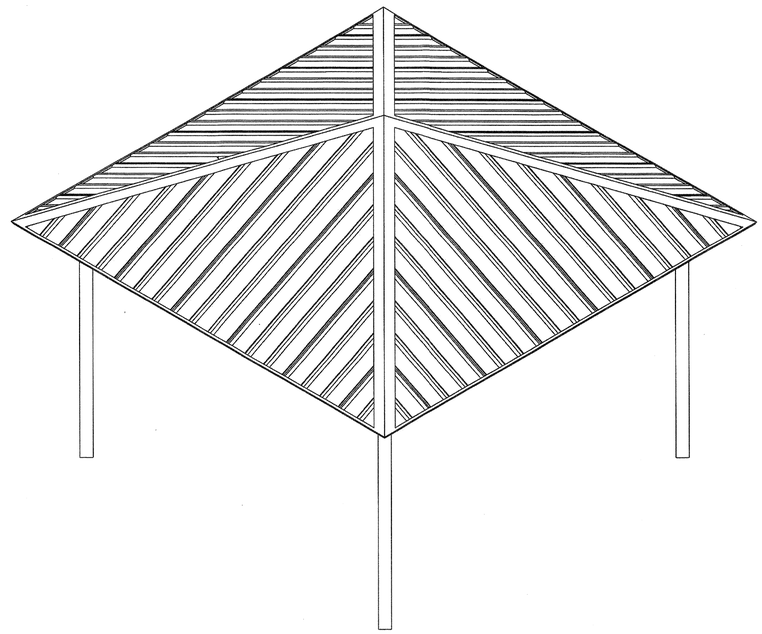
PD6.0

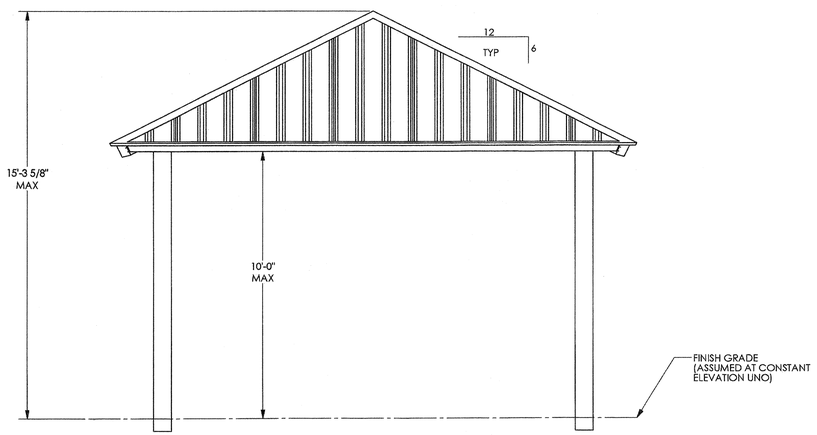
2014A



PLAN VIEW
SCALE: 3/8" = 1'-0"



ISOMETRIC VIEW
SCALE: 3/8" = 1'-0"



FRONT ELEVATION
SCALE: 3/8" = 1'-0"

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THOMAS A. BURKE
No. S4378
Exp. 3/31/16
STRUCTURAL
STATE OF CALIFORNIA

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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

ARCHITECTURAL VIEWS
SQR 20

SQUARE (SQR)
PC DRAWINGS

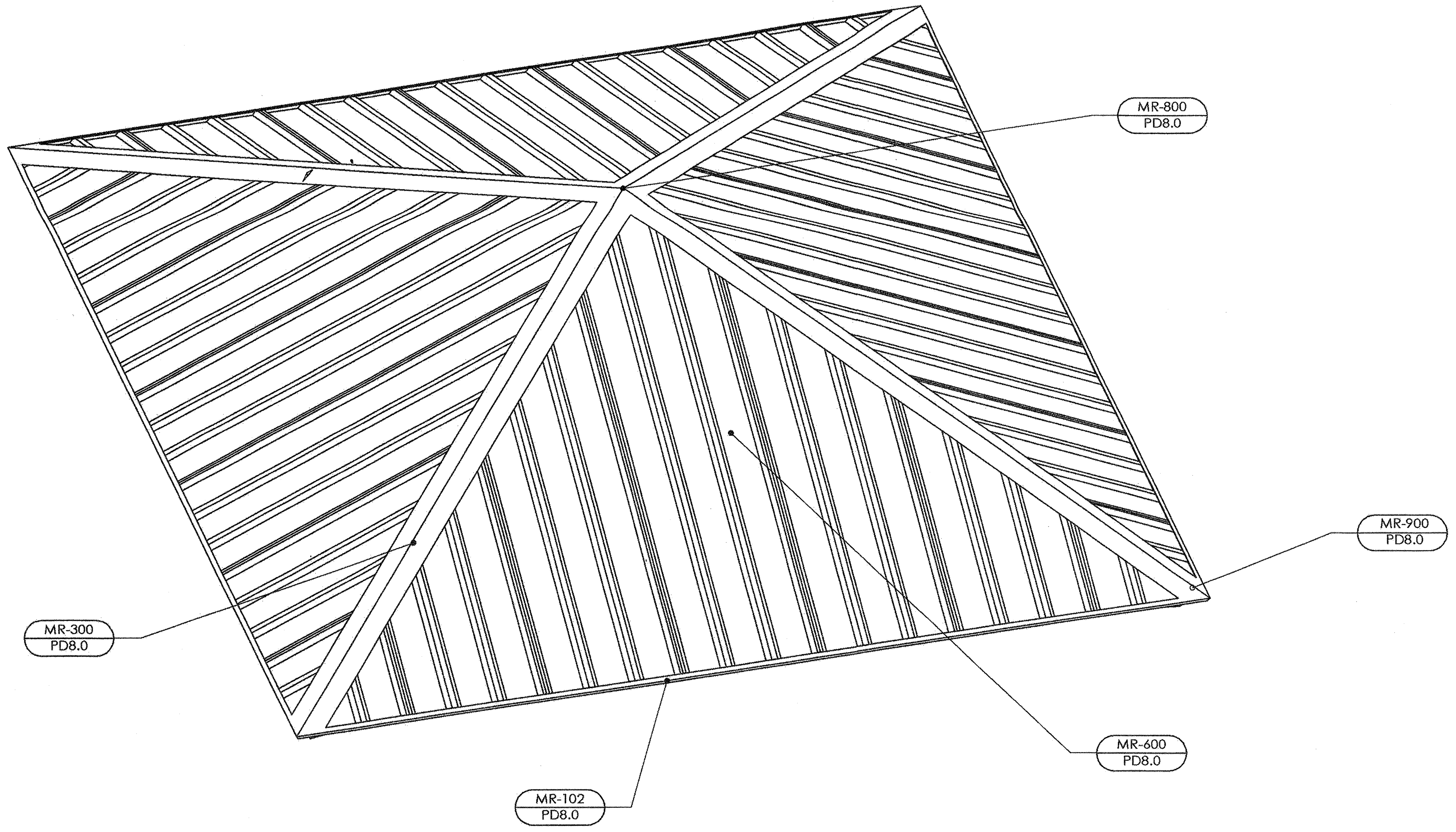
DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51459

PD7.0

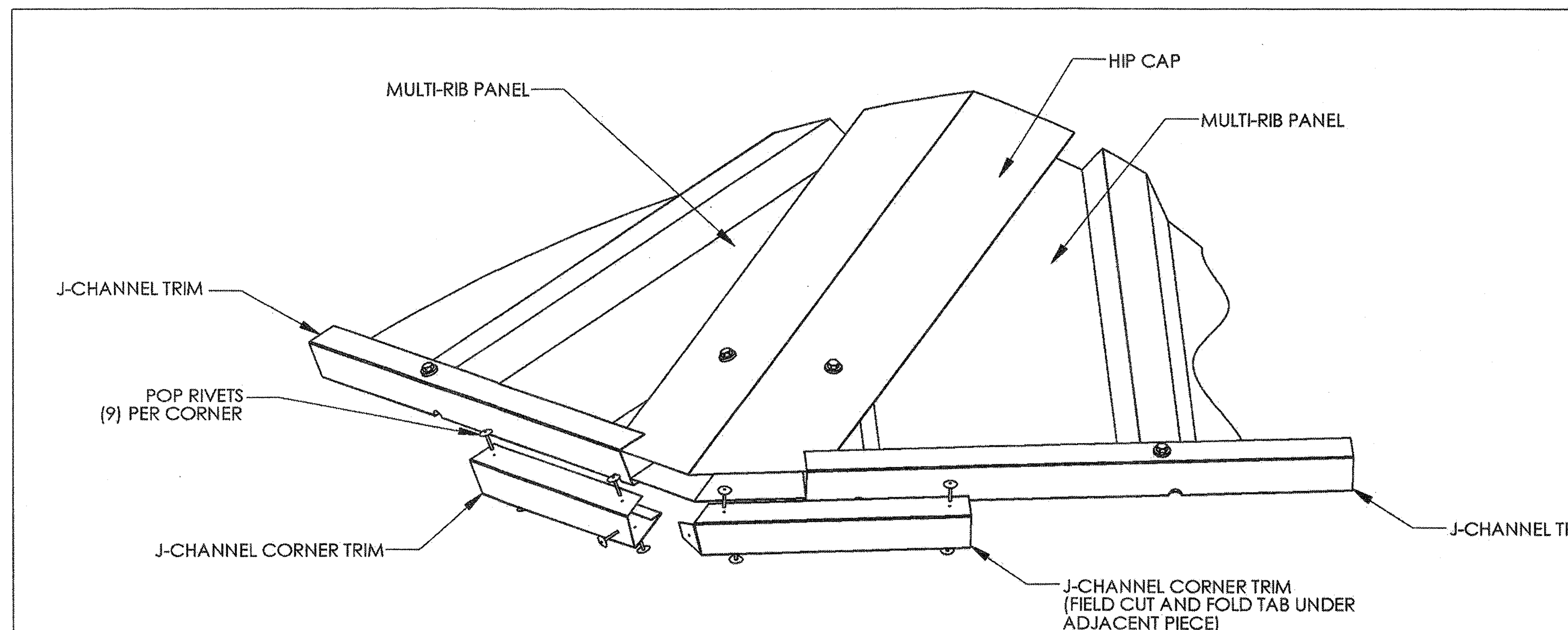
2014A

ROOF LAYOUT NOTES (MR):

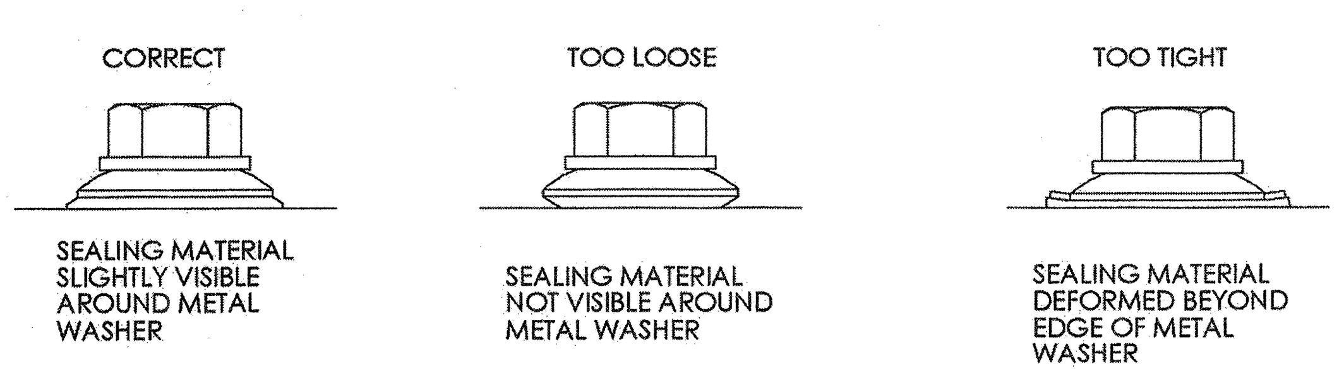
1. IT SHALL BE THE RESPONSIBILITY OF THE ERECTOR TO ENSURE THAT THE DETAILS MEET THE BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.
2. THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.
3. FLASHING AND TRIM SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ANY EXPOSED FASTENERS EQUALLY SPACED FOR THE BEST APPEARANCE.
4. SEALANT SHALL BE FIELD APPLIED ON DRY, CLEAN SURFACES. SOME FIELD CUTTING AND FITTING OF PANELS AND FLASHING IS TO BE EXPECTED BY THE ERECTOR AND MINOR FIELD CORRECTIONS ARE A PART OF NORMAL ERECTION WORK.
5. WORKMANSHIP SHALL BE OF THE BEST INDUSTRY STANDARDS AND INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN.
6. METAL SHAVINGS FROM DRILLING OR INSTALLATION OF ROOF FASTENERS MUST BE CAREFULLY REMOVED FROM THE ROOF BY BRUSHING OR SWEEPING AT THE END OF EACH DAY DURING INSTALLATION. SHAVINGS LEFT ON THE ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH.



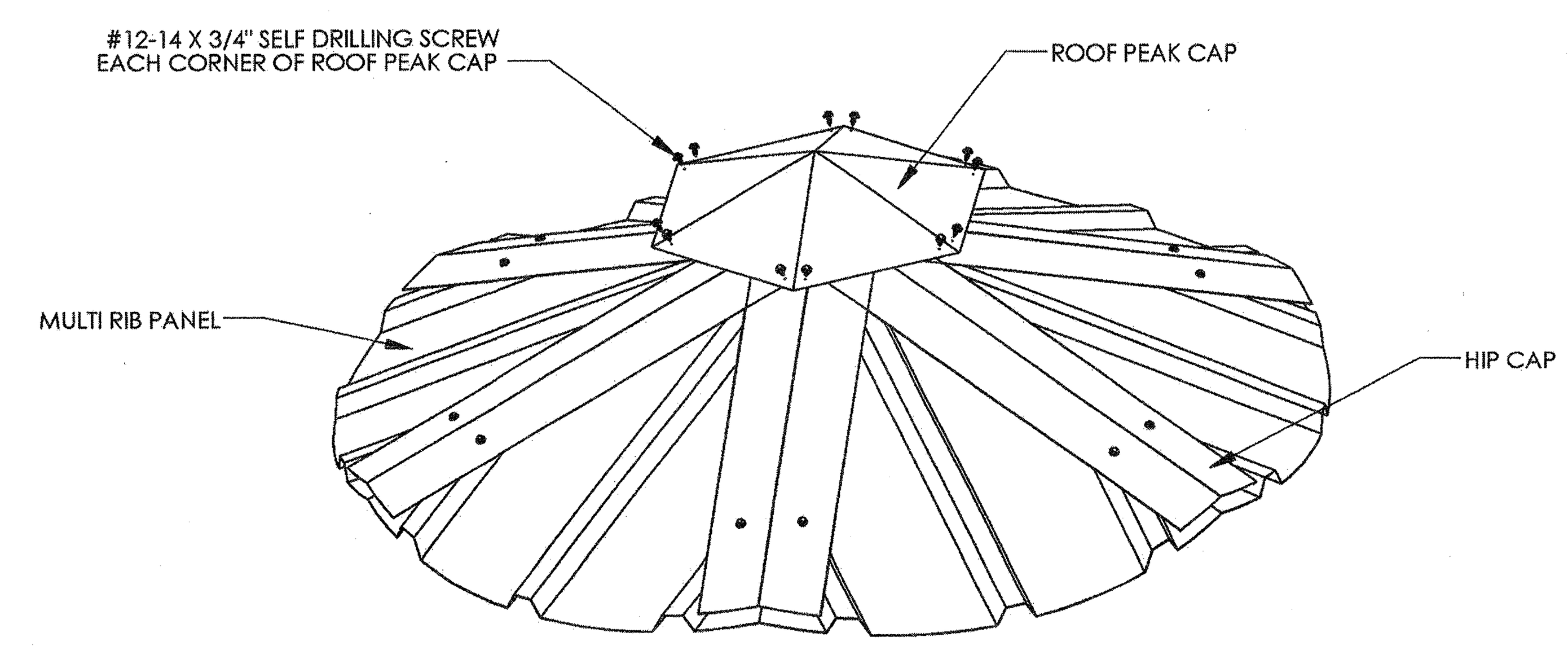
ISOMETRIC VIEW
SCALE: 1/2" = 1'-0"



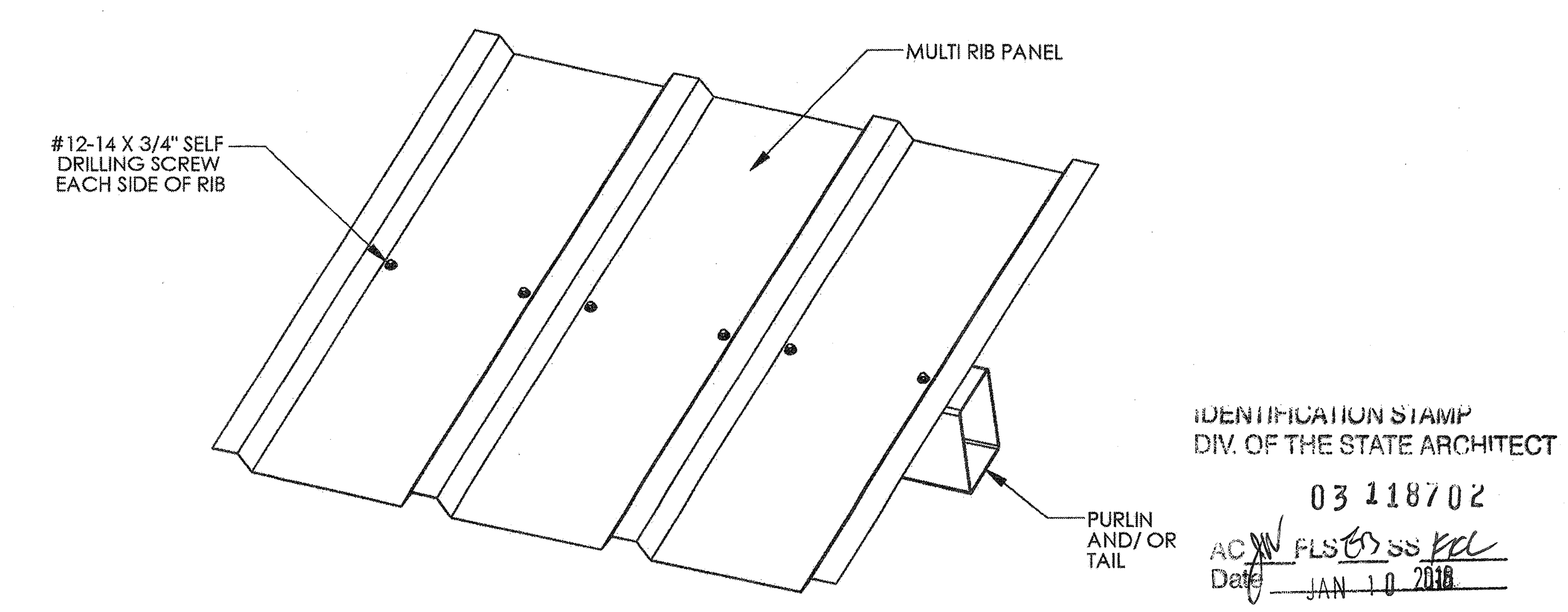
CORNER DETAIL — MR-900



ROOF FASTENER TIGHTENING — MR-950



ROOF PEAK DETAIL — MR-800



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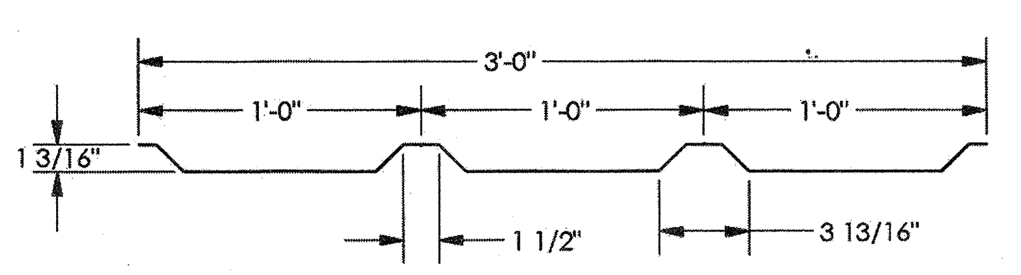
PURLIN DETAIL — MR-600

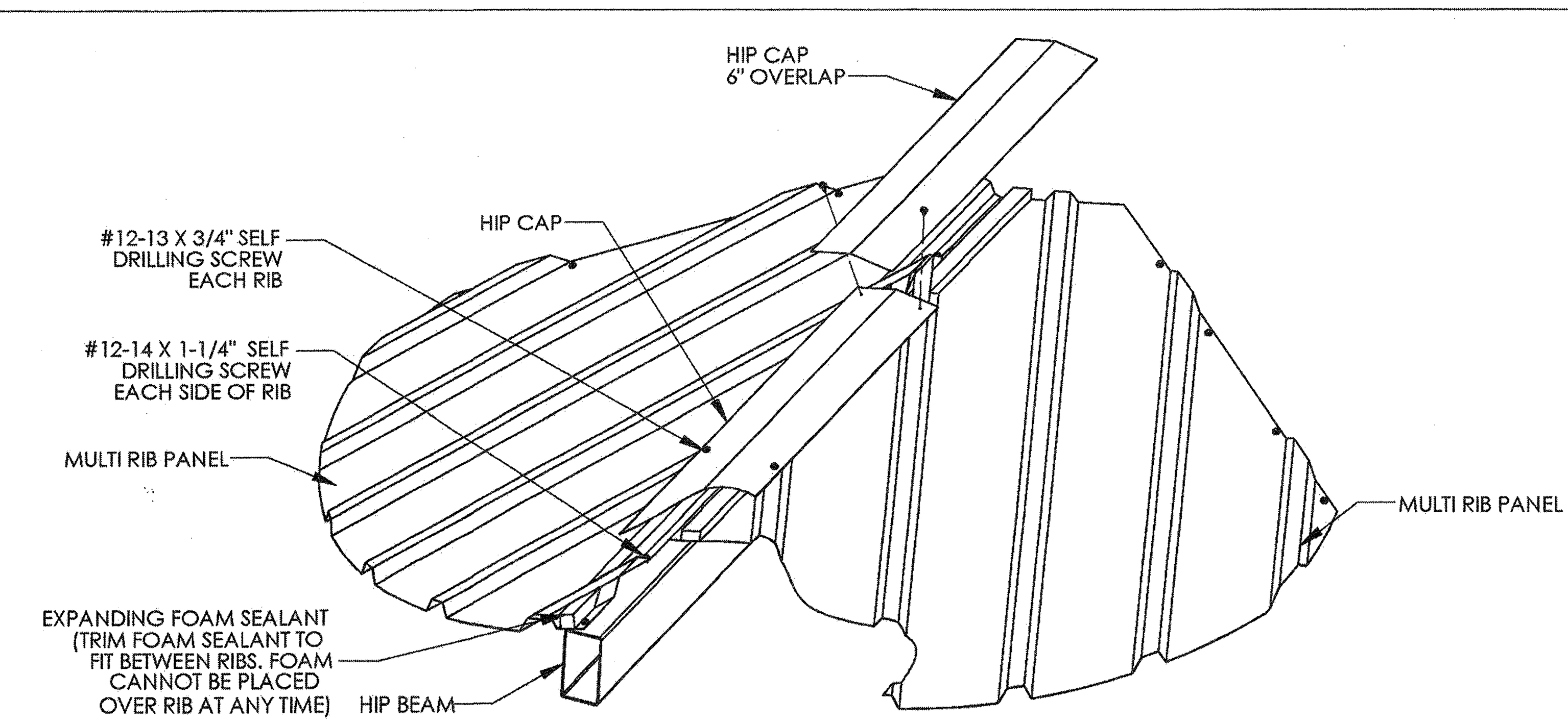


GENERAL:
GAGE = 24
Fy = 50 KSI

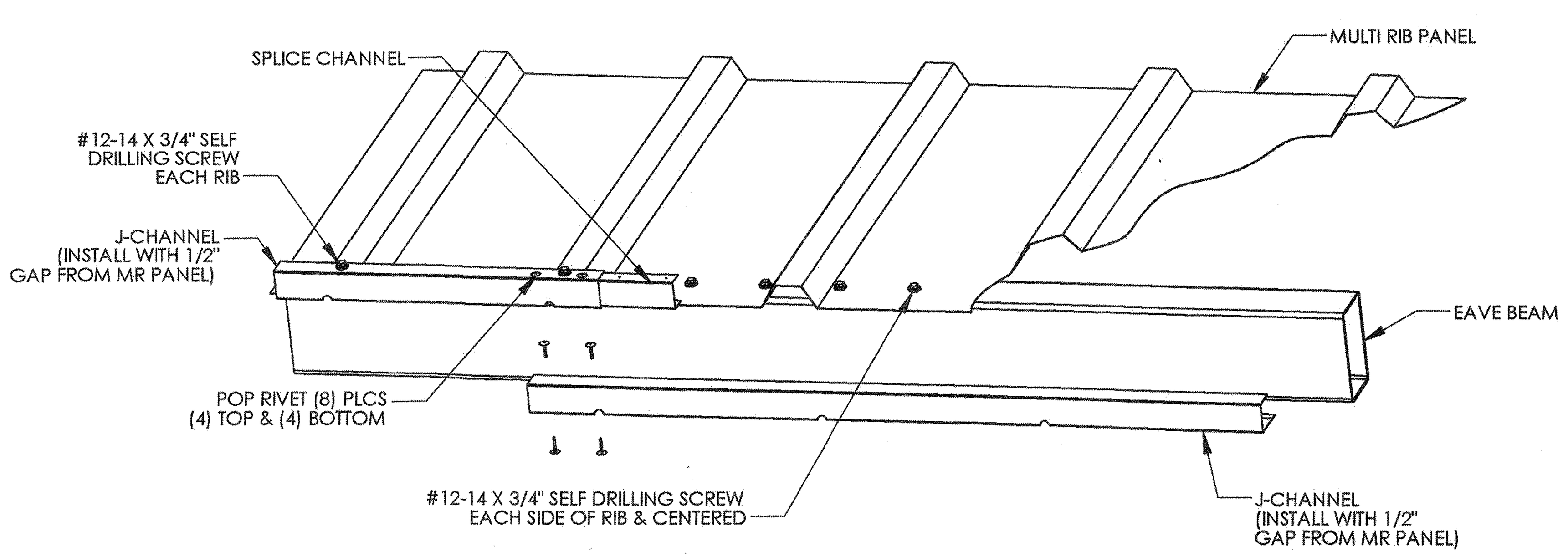
TOP IN COMPRESSION:
Ix=0.0486 IN^4
Se=0.0499 IN^3
Ma=1.494 IN-KIPS

BOTTOM IN COMPRESSION:
Ix=0.0286 IN^4
Se=0.0462 IN^3
Ma=1.382 IN-KIPS

MR ROOF DECK SECTION PROPERTIES — MR-951



HIP BEAM DETAIL — MR-300



EAVE DETAIL — MR-102

REGISTERED PROFESSIONAL ENGINEER
THOMAS A. BURKHART
No. S4378
Exp. 3/31/16
STRUCTURAL
STATE OF CALIFORNIA

TEAM DRIVEN SOLUTIONS FOR THE BUILT ENVIRONMENT
CARLTON Engineering Inc.
2265 IRON POINT ROAD SUITE 220
FOLSOM, CA 95630
VOICE: 916.932.7855
FAX: 916.932.7845

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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

ROOF CONNECTION DETAILS

MR ROOF DECK

SQUARE (SQR)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51459

PD8.0

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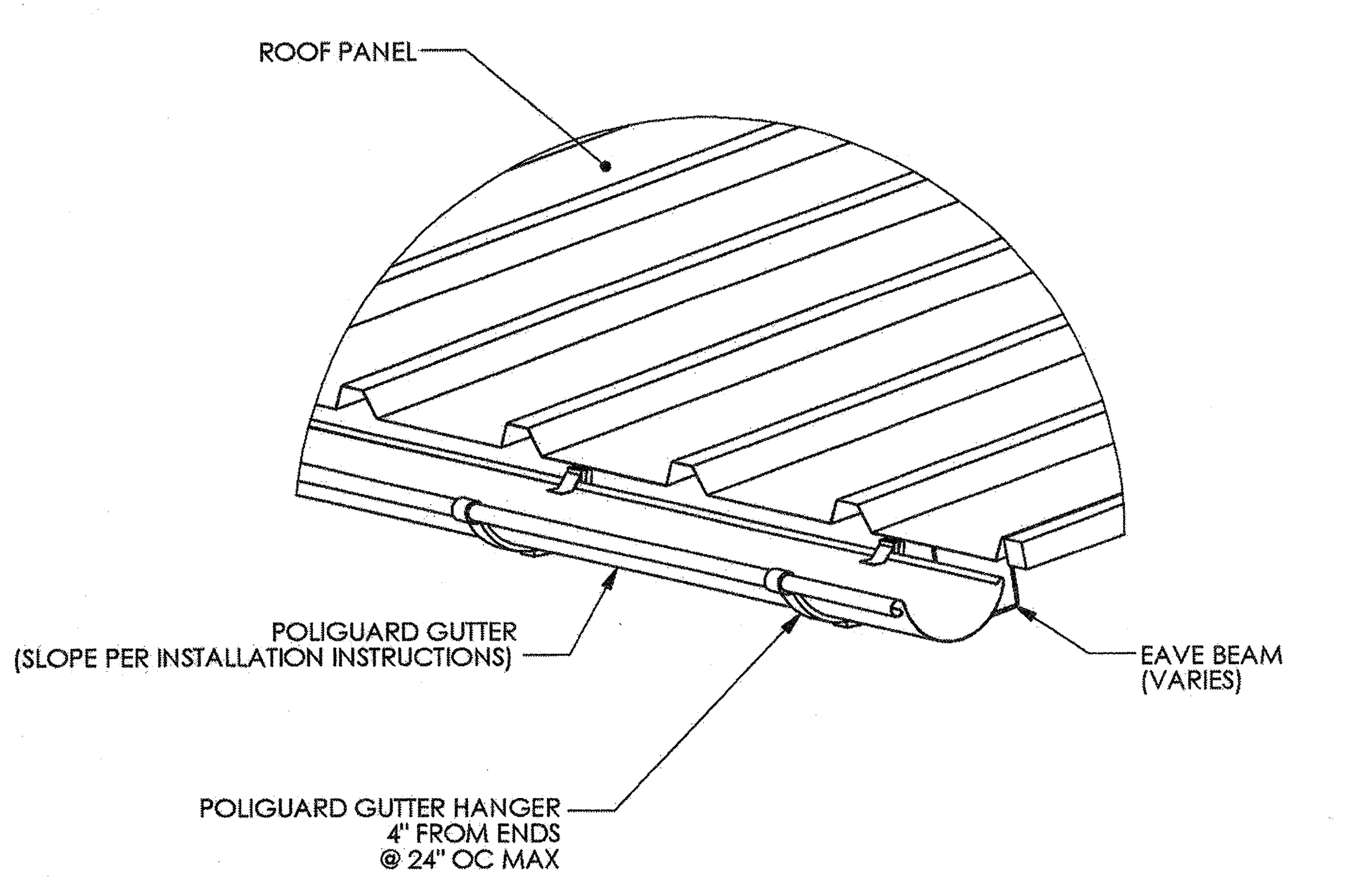
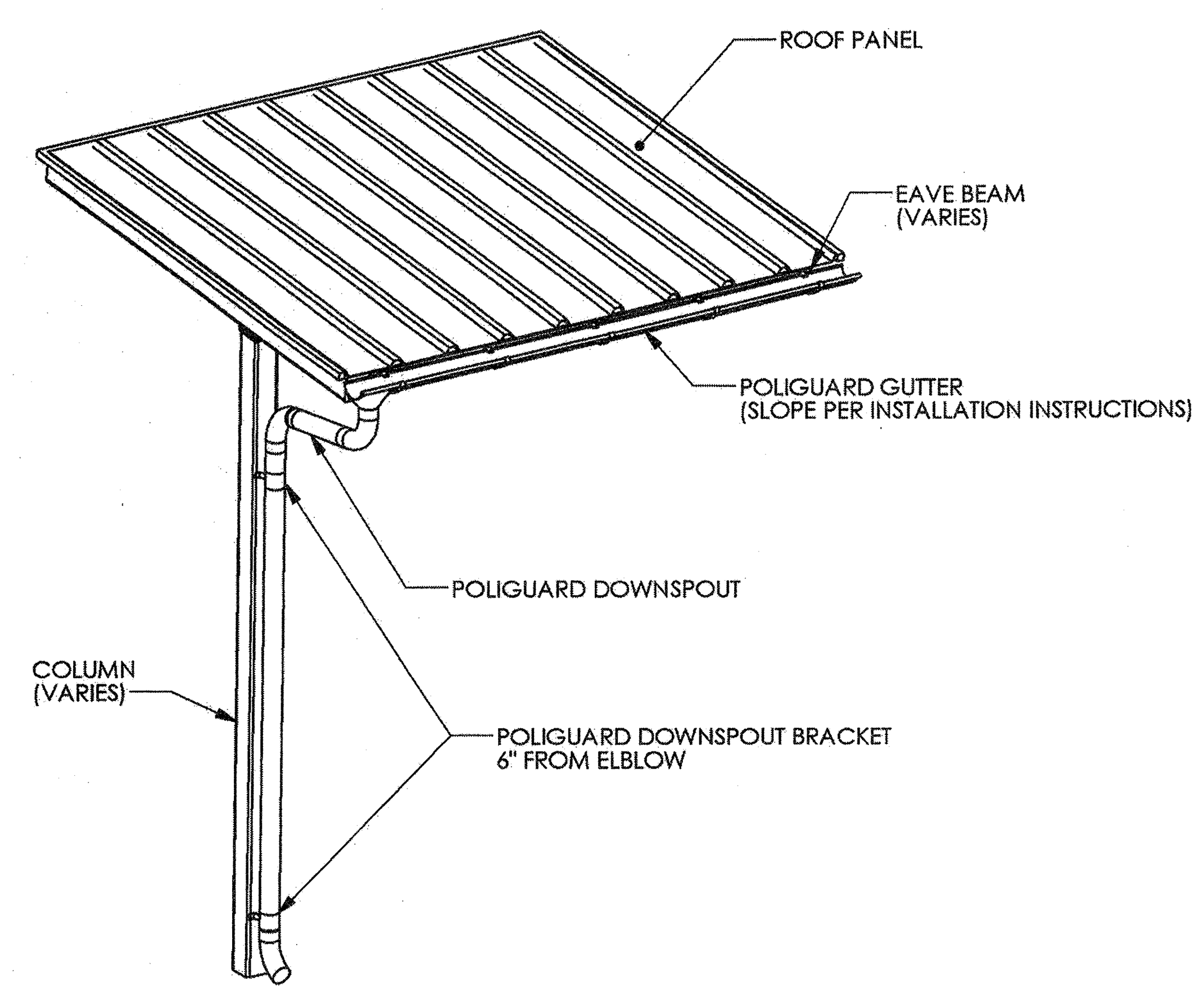


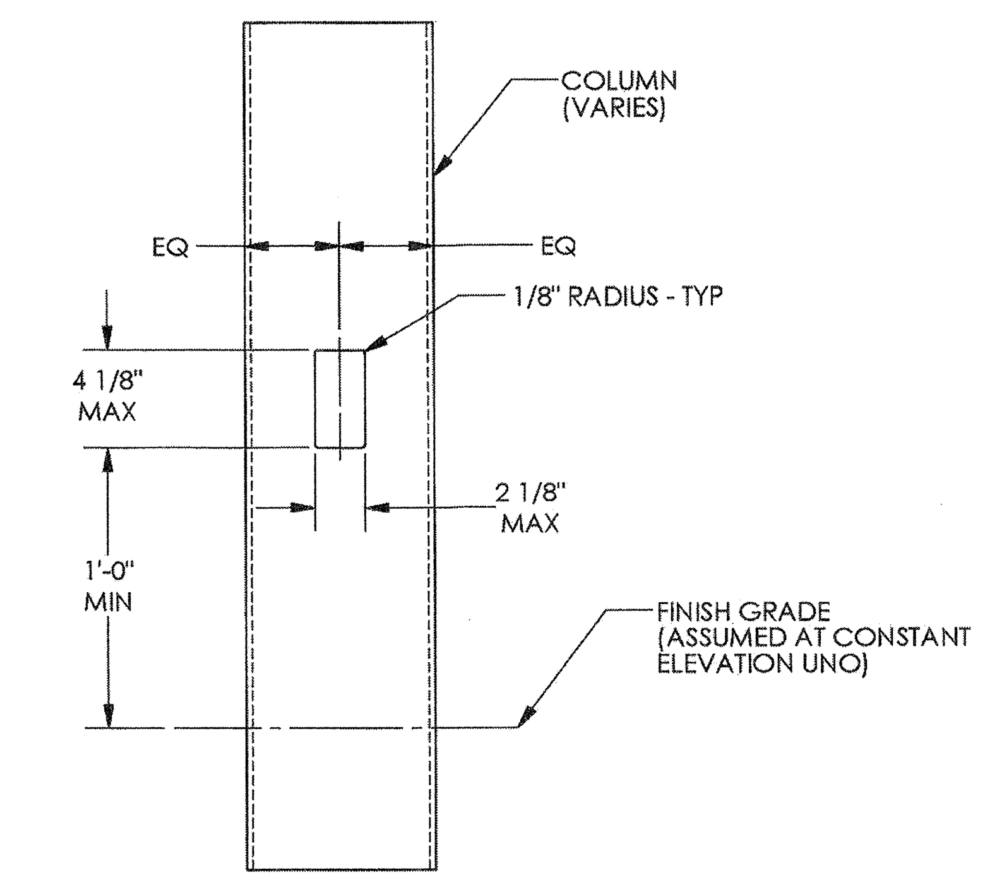
GUTTER DETAIL — GS-100



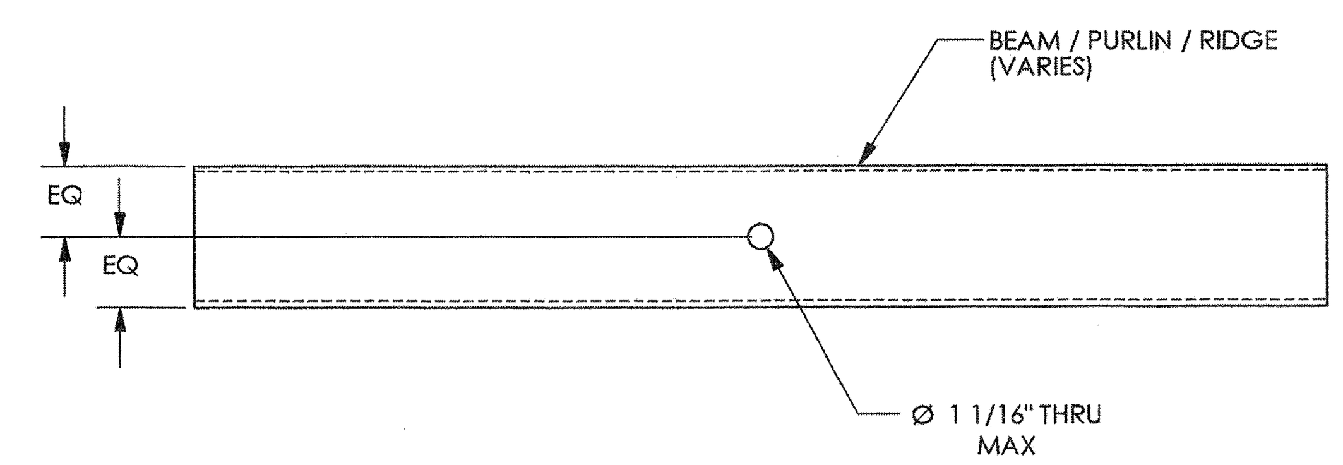
DOWNSPOUT DETAIL — GS-200

POLIGUARD GUTTER SYSTEM NOTES:

1. PREFABRICATED GUTTER SYSTEM IS ATTACHED TO THE STRUCTURE AFTER ROOF IS INSTALLED.
2. DETAILED INSTALLATION INSTRUCTIONS ARE SHIPPED WITH THE STRUCTURE.
3. DOWNSPOUTS REQUIRED AT EACH COLUMN.



ELECTRICAL CUTOUT IN COLUMNS — EC-100



ELECTRICAL CUTOUT IN BEAMS / PURLINS / RIDGES — EC-200

ELECTRICAL CUTOUT NOTES:

1. MAXIMUM ONE CUTOUT PERMITTED IN EACH MEMBER.
2. CUTOUTS CAN BE PLACED ON ANY SIDE OF A MEMBER.
3. CUTOUTS CAN BE PLACED ALONG MEMBERS AS INDICATED IN THE DETAILS.
4. ARCHITECTS REQUESTING CUTOUTS MUST MARKUP APPROVED PC DRAWINGS TO LOCATE CUTOUTS FOR APPROVAL AND FABRICATION.

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Exp. 3/31/16
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MISC DESIGN OPTIONS

SQRUARE (SQR)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51459

PD9.0