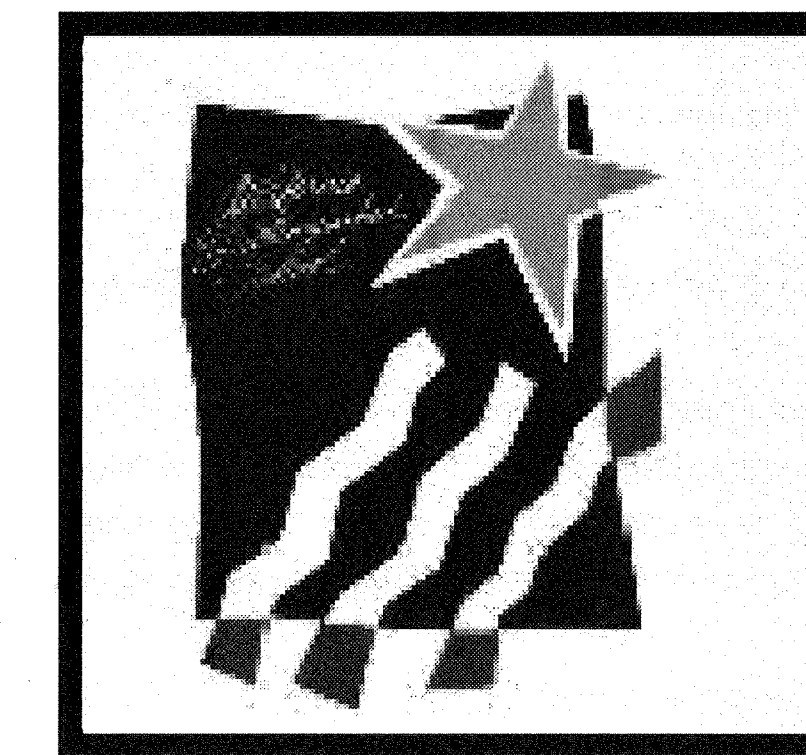
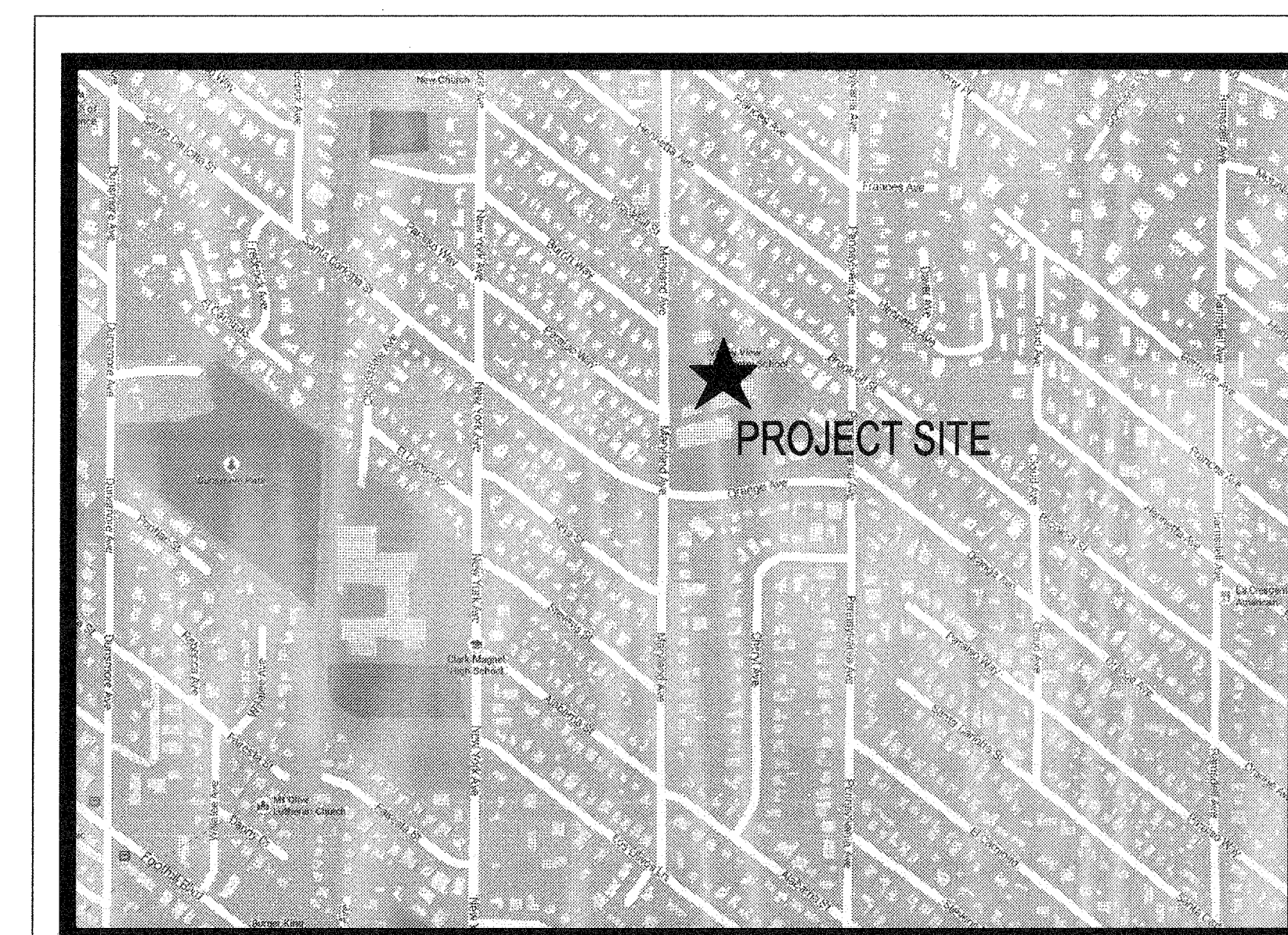
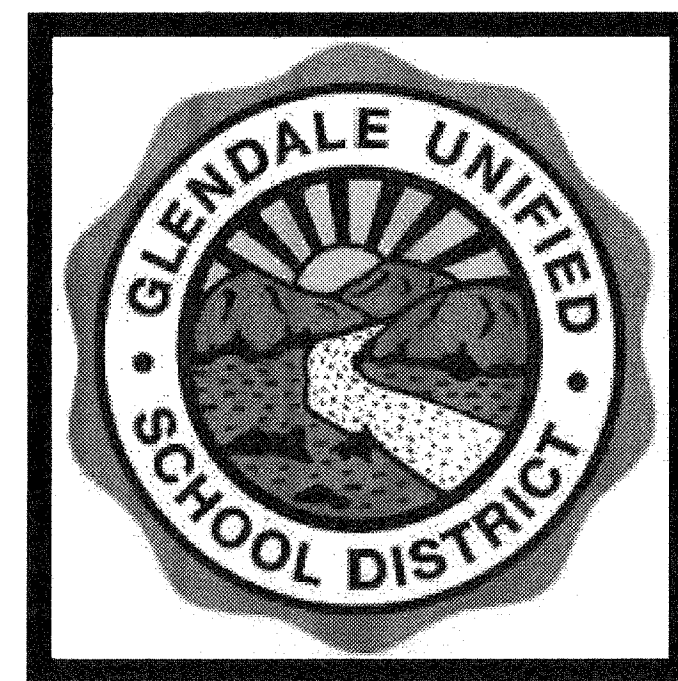


NEW SHADE STRUCTURE VALLEY VIEW ELEMENTARY SCHOOL



4900 MARYLAND AVE., LA CRESCENTA, CALIFORNIA

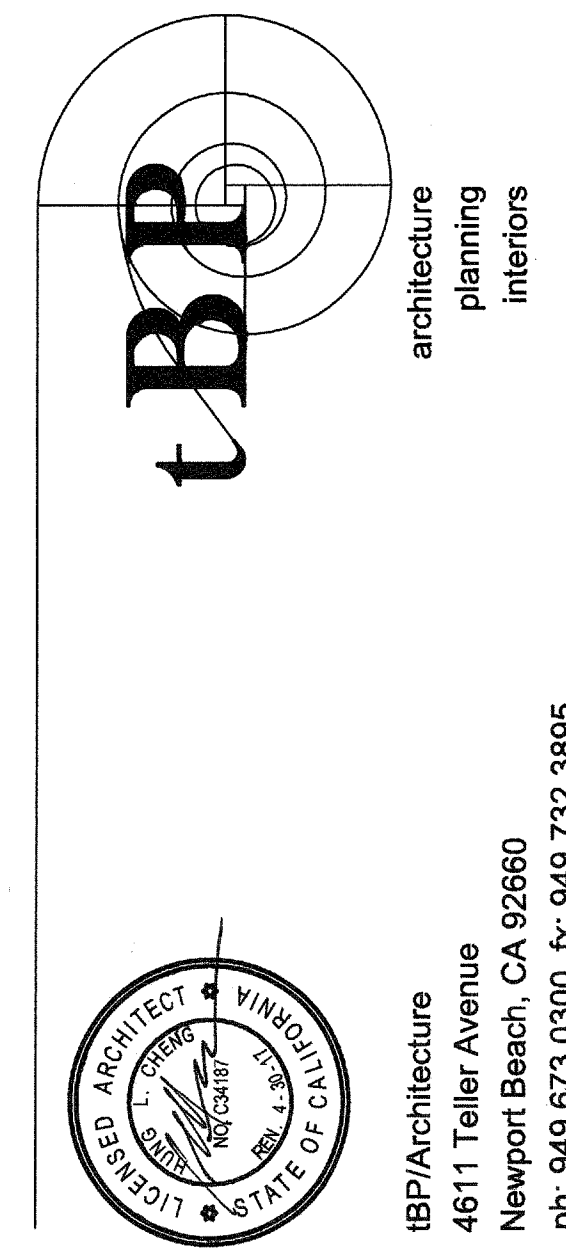
GLENDALE UNIFIED SCHOOL DISTRICT



VICINITY MAP



REGIONAL MAP



IBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

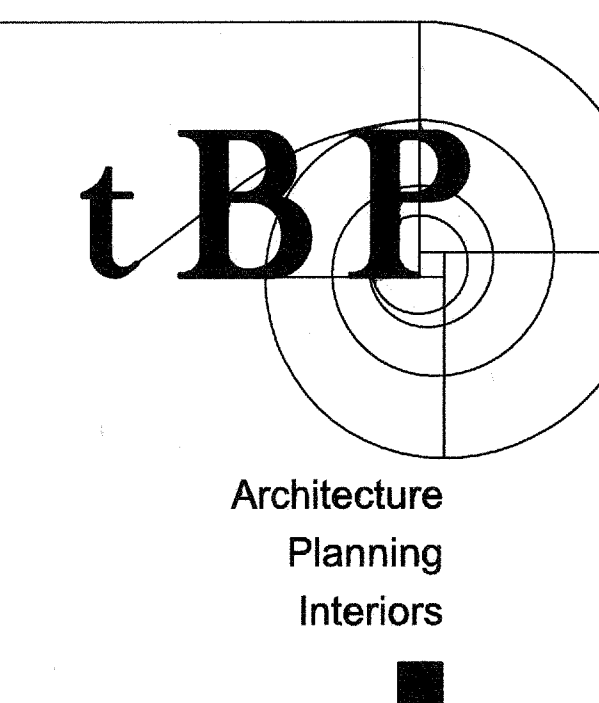
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 117045
AC No. FLS 1033
Date APR 29 2010
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

VALLEY VIEW ELEMENTARY SCHOOL
SHADE STRUCTURE
4900 MARYLAND AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT

IBP project number : 20093.00
file name:
drawn by: checked by:
date: FEB. 09, 2016
Rev: date: description:
drawing title:
COVER SHEET
drawing no.:
T-1
drawing of

tBP /Architecture

4611 Teller Avenue - Newport Beach - California - 92660
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ABBREVIATIONS

Table of abbreviations for architectural and engineering symbols, including terms like AND, ANGLE, AT, CENTERLINE, etc.

DRAWING LIST

Table listing drawing titles and counts, including GENERAL (NO. OF DRAWINGS - 3), ARCHITECTURAL DRAWINGS (NO. OF DRAWINGS - 3), and 20x40 SHADE STRUCTURE (NO. OF DRAWINGS - 16).

Statement of General Conformance

Statement of General Conformance text, including application number A*03-117045, date 4/20/2016, and signature of Humberto Chank.

SUMMARY OF WORK

Summary of work text, including occupancy group A-3 and construction type TYPE-V-B, NON-SPRINKLERED.

Table showing allowable building area, basic allowable area (6,000 sq ft), and actual building area (800 S.F.).

APPLICABLE CODES

List of applicable codes as of January 1, 2014, including California Administrative Code, Building Code, Electrical Code, Mechanical Code, Plumbing Code, Energy Code, Fire Code, Green Building Standards Code, and National Fire Alarm Code.

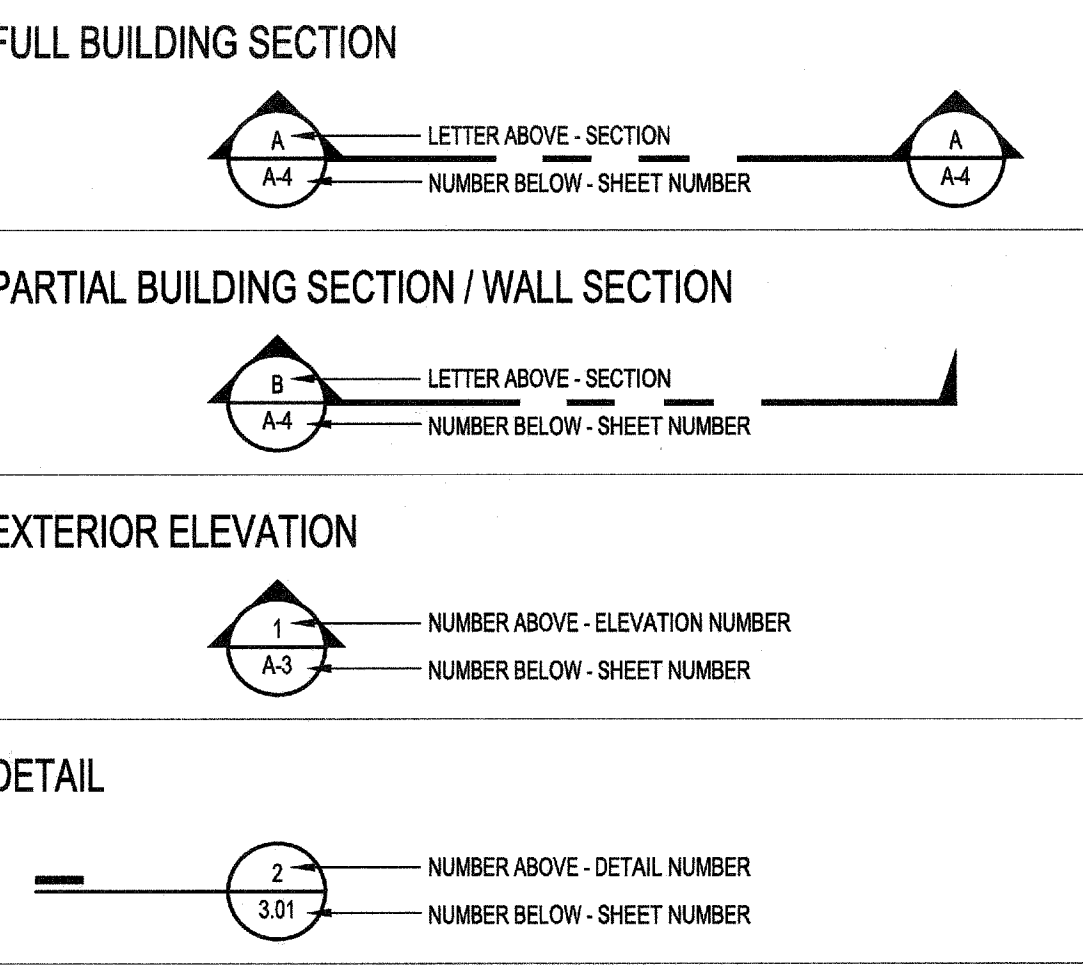
PROJECT DIRECTORY

Project directory information including owner (Glendale Unified School District) and architect (IBP/Architecture).

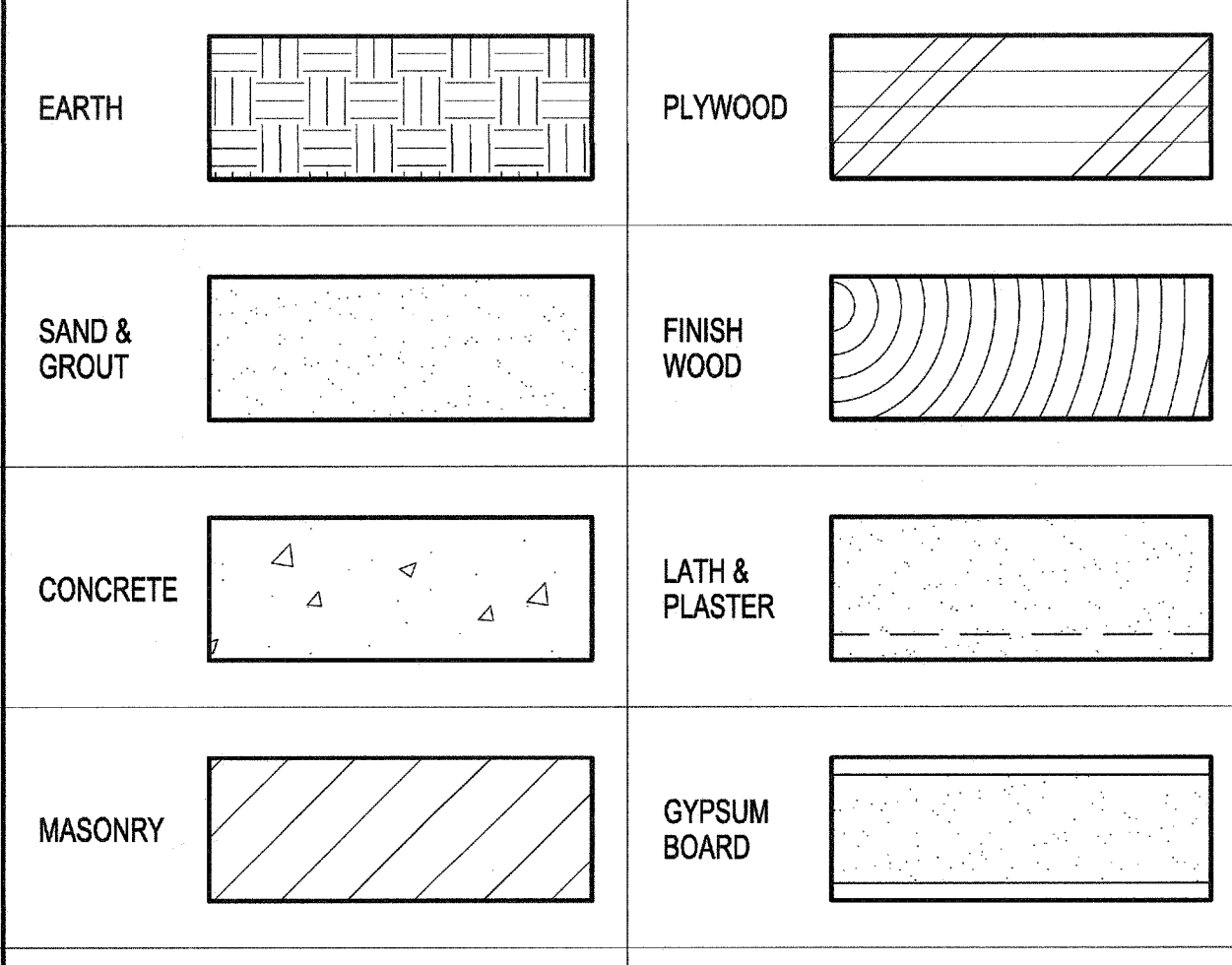
GENERAL NOTES

General notes text: ALL WORK TO CONFORM TO 2013 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CHANGE ORDERS APPROVED BY THE DIVISIONS OF THE STATE ARCHITECT...

REFERENCE SYMBOLS



MATERIAL SYMBOLS



IBP/Architecture logo and contact information: 4811 Teller Avenue, Newport Beach, CA 92660, phone 949.673.3895.

Identification stamp: 03 117045, Date APR 29 2016, DSA Los Angeles Regional Office.

Valley View Elementary School Shade Structure project information: 4900 Maryland Avenue, La Crescenta, California 91214.

Drawing title: SHT. INDEX, GEN. NOTES, & CODE ANALYSIS. Drawing no.: T-2 drawing of.

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

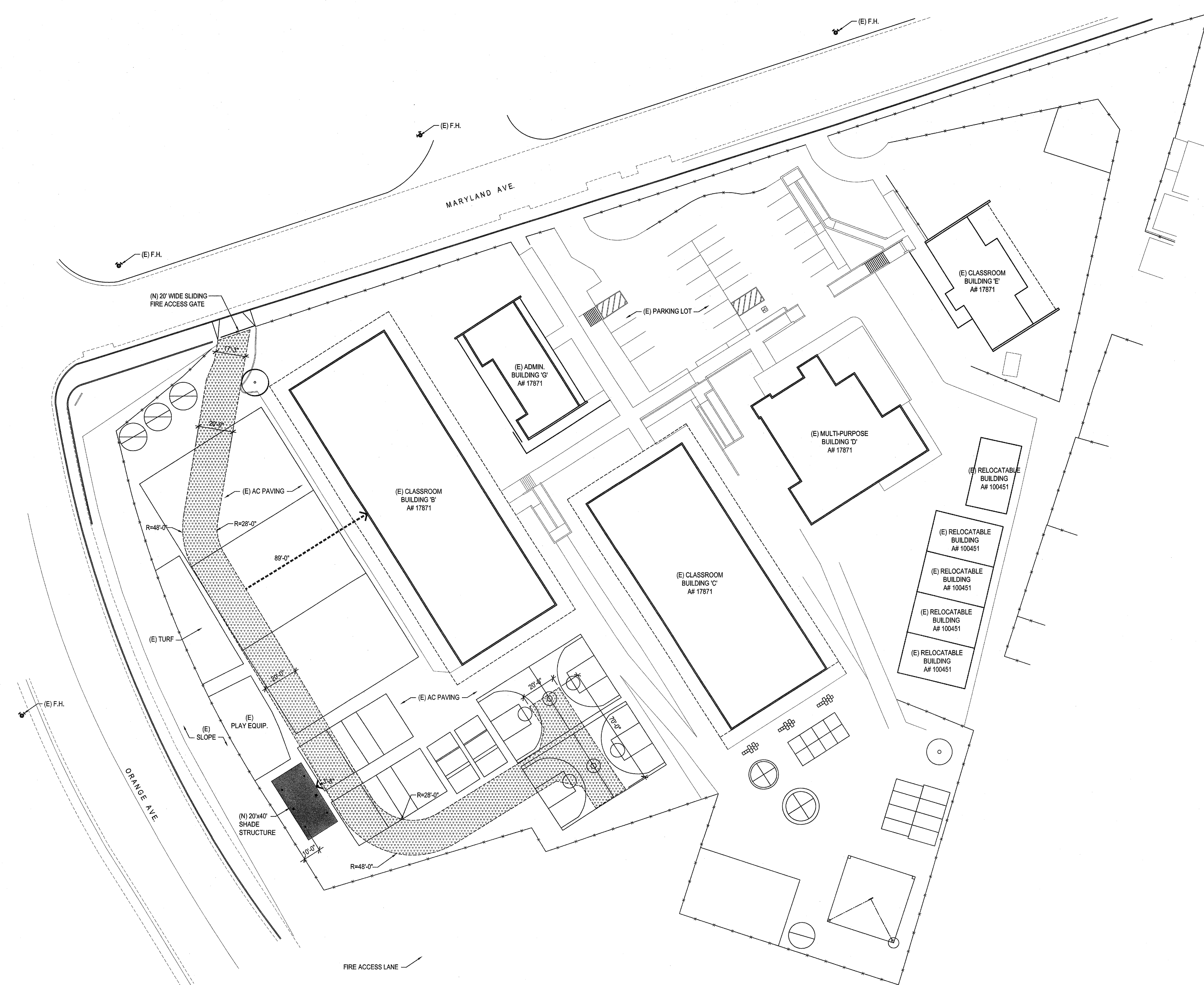
School District/Owner: Glendale Unified School District
 Project Name/School: Valley View Elementary School Shade Structure
 Project Address: 4900 Maryland Ave., La Crescenta, CA 91214

LOCAL FIRE AUTHORITY (LFA)

LFA Agency Name: County of Los Angeles Fire Department
 LFA Reviewer Name: _____ Title: _____
 Email: _____ Telephone Number: _____
 Date: 1-29-15

I have reviewed and responded to the applicable items for this project as listed below.
 Note: Only sign this form when it is stamped onto the site plan. A loose form is not acceptable to DSA.
 LFA Reviewer's Signature: _____
 Review Key: "Y" = Complied 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.				X
Signature of School District Official: _____ Date: _____				
Print the School District Official's Name: _____				
5 The location(s) of the proposed post indicator valve and fire department connection meet the requirements of the 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.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Check type if "Yes": <input type="checkbox"/> Moderate <input type="checkbox"/> High <input type="checkbox"/> Very High <input type="checkbox"/> WIFA (If one of these boxes is checked, the project design must meet the requirements of Chapter 7A.)				
COMMENTS (note deficiencies):				



FIRE ACCESS SITE PLAN
 SCALE: 1/8"=1'-0"
 project north

SUMMARY OF WORK	FIRE DEPARTMENT NOTES	BUILDING DESCRIPTION	SITE PLAN LEGEND										
THE PROJECT CONSISTS OF THE PLACEMENT OF A PRE-CHECKED 20'x40' SHADE STRUCTURE.	1. FIRE DEPARTMENT VEHICULAR ACCESS ROADS MUST BE INSTALLED AND MAINTAINED IN A SERVICEABLE MANNER PRIOR TO AND DURING THE TIME OF CONSTRUCTION. (FIRE CODE 501.4) 2. FIRE DEPARTMENT VEHICULAR ACCESS ROADS SHALL BE HARD SCAPE ALL WEATHER ACCESS IN ACCORDANCE WITH THE DEPARTMENTS ALL WEATHER ACCESS REQUIREMENTS. (LOS ANGELES COUNTY FIRE CODE 503.2.3) 3. ALL FIRE HYDRANTS SHALL MEASURE 6" x 4" x 2 1/2", BRASS OR BRONZE, CONFORMING TO AMERICAN WATER WORKS ASSOCIATION STANDARD C503, OR APPROVED EQUAL, AND SHALL BE INSTALLED IN COMPLIANCE WITH THE COUNTY OF LOS ANGELES FIRE DEPARTMENT REGULATION 8. (FIRE CODE 507.5 AND REGULATION 8)	BUILDING AREA: 800 SF BUILDING HEIGHT: 16'-0", NO PARAPET SINGLE STORY BUILDING USE: A-9 OCCUPANCY CONSTRUCTION TYPE: TYPE V-B, NON-SPRINKLERED FIRE FLOW ANALYSIS 2013 CALIFORNIA FIRE CODE TABLE BB105.1 - MIN. REQUIRED FIRE FLOW AND FLOW DURATION FOR BUILDINGS <table border="1"> <thead> <tr> <th>FIRE AREA TYPE V-B</th> <th>FIRE FLOW (GPM)</th> <th>FLOW DURATION (HOURS)</th> <th>5% REDUCTION DUE TO FIRE SPRINKLERS (BB105.1)</th> <th>REQUIRED FIRE FLOW</th> </tr> </thead> <tbody> <tr> <td>800 S.F.</td> <td>1,500</td> <td>2</td> <td>0</td> <td>1,500</td> </tr> </tbody> </table>	FIRE AREA TYPE V-B	FIRE FLOW (GPM)	FLOW DURATION (HOURS)	5% REDUCTION DUE TO FIRE SPRINKLERS (BB105.1)	REQUIRED FIRE FLOW	800 S.F.	1,500	2	0	1,500	[Pattern] EXISTING FIRE DEPARTMENT VEHICULAR ACCESS LANE 20'-0" MINIMUM UNOBSTRUCTED WIDTH [Dashed] FIREFIGHTER ACCESS WALKWAY 5'-0" MINIMUM CLEAR WIDTH (E) F.H. EXISTING FIRE HYDRANT
FIRE AREA TYPE V-B	FIRE FLOW (GPM)	FLOW DURATION (HOURS)	5% REDUCTION DUE TO FIRE SPRINKLERS (BB105.1)	REQUIRED FIRE FLOW									
800 S.F.	1,500	2	0	1,500									

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 03 117045
 Date: APR 29 2016

DSA Los Angeles Regional Office
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 Los Angeles, California 90012
 ph: (213)897-3995 fx: (213)897-3159/0726

consultant

VALLEY VIEW ELEMENTARY SCHOOL SHADE STRUCTURE

4900 MARYLAND AVENUE
 LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 2898.00

file name:

drawn by: js checked by:

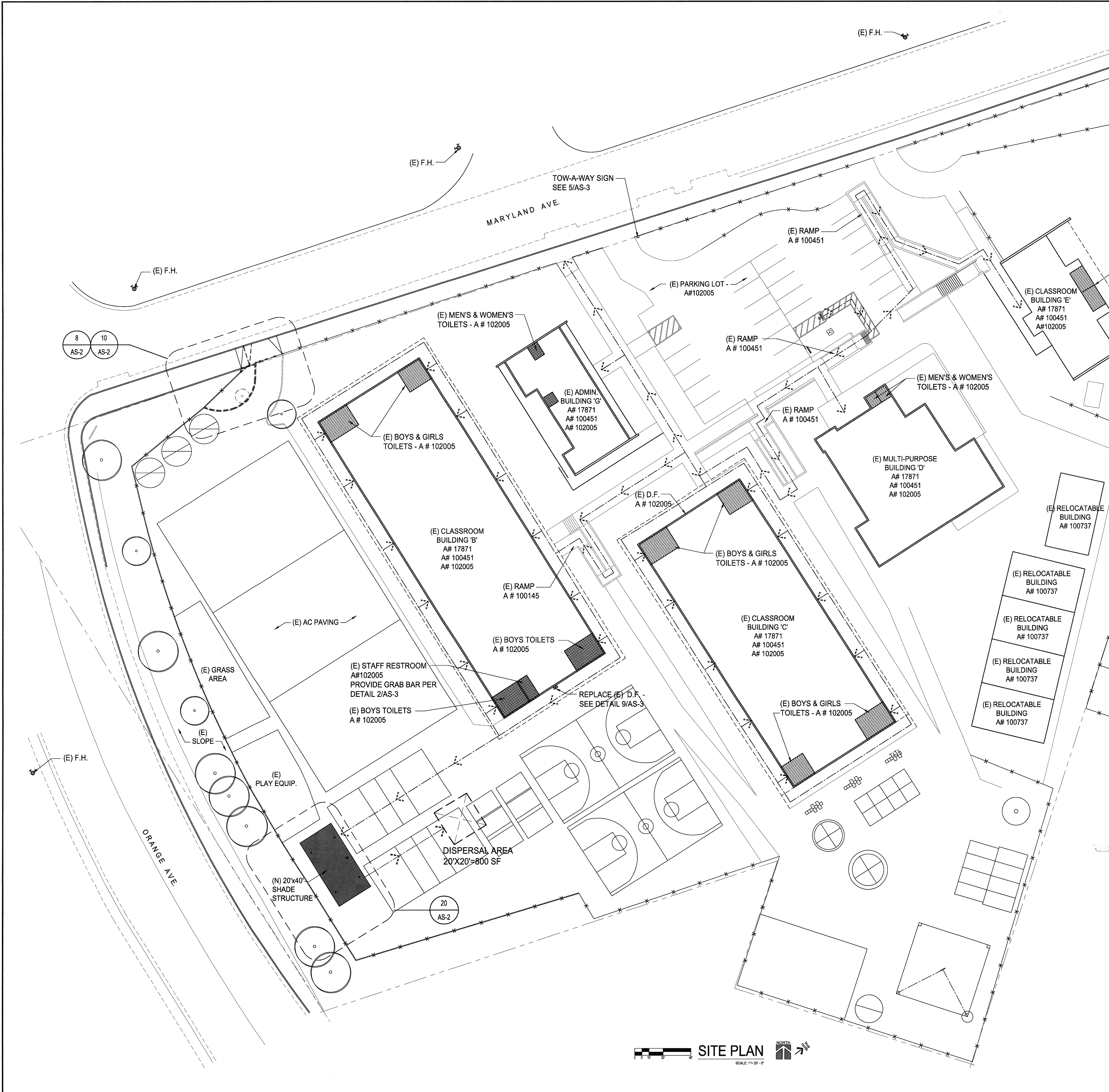
date:

Rev. date: description:

drawing title:
FIRE ACCESS SITE PLAN

drawing no.:
T-3
 drawing of

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GENERAL NOTES

1. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

2. VERIFY ALL EXISTING AND FINISH GRADES, DIMENSIONS AND SITE CONDITIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.

SITE PLAN LEGEND

PATH OF TRAVEL
 DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR THE 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 PROJECT'S 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. ARCHITECT HAS VERIFIED P.O.T. IS BARRIER FREE.

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

(E) ACCESSIBLE RESTROOMS - A# 102005

FLOOD DESIGN INFORMATION

THE FLOOD ZONE DESIGNATION	ZONE X
THE FLOOD INSURANCE RATE MAP (FIRM) PANEL DESIGNATION	06037C1335F
EFFECTIVE DATE OF THE FIRM	09-26-2008
BASE FLOOD ELEVATION (BFE)	N/A
APPLICABLE COMMUNITY ORDINANCE SECTION	N/A

PARKING TABULATION

PARKING LOT:	25 PARKING STALLS 1 ACCESSIBLE PARKING STALL
--------------	---

FIRE EXTINGUISHER NOTE

1. VERIFY EXISTING FIRE EXTINGUISHER WITHIN 75'-0" TRAVEL DISTANCE. OTHERWISE PROVIDE NEW EXTINGUISHER PER CFC 900.

SITE PLAN
 SCALE: 1" = 20' 0"

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**VALLEY VIEW ELEMENTARY SCHOOL
 SHADE STRUCTURE**

4900 MARYLAND AVENUE
 LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number: 2998.00

file name:

drawn by: checked by:

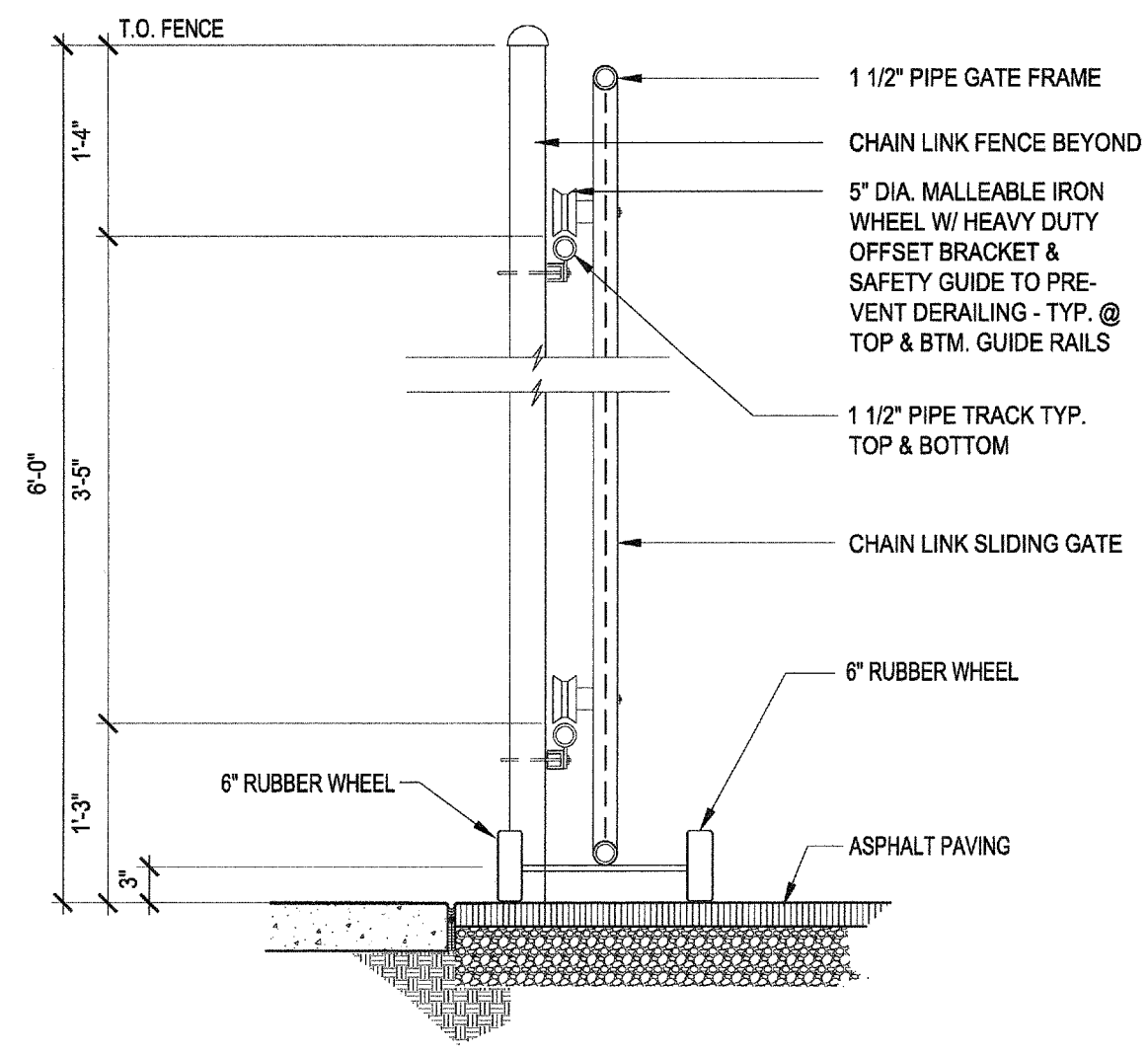
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drawing title:
**OVERALL CAMPUS
 SITE PLAN**

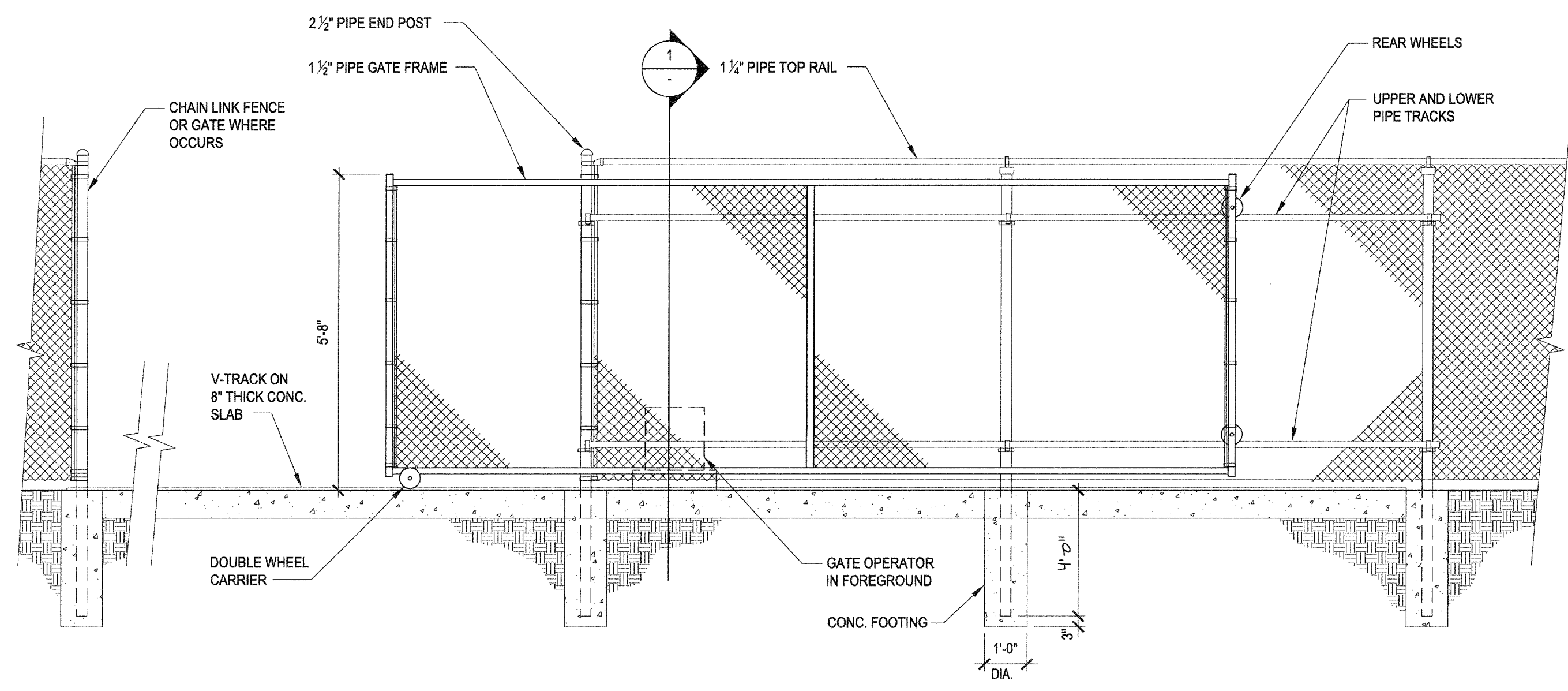
drawing no.:
AS-1
 drawing of



SLIDING GATE SECTION

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

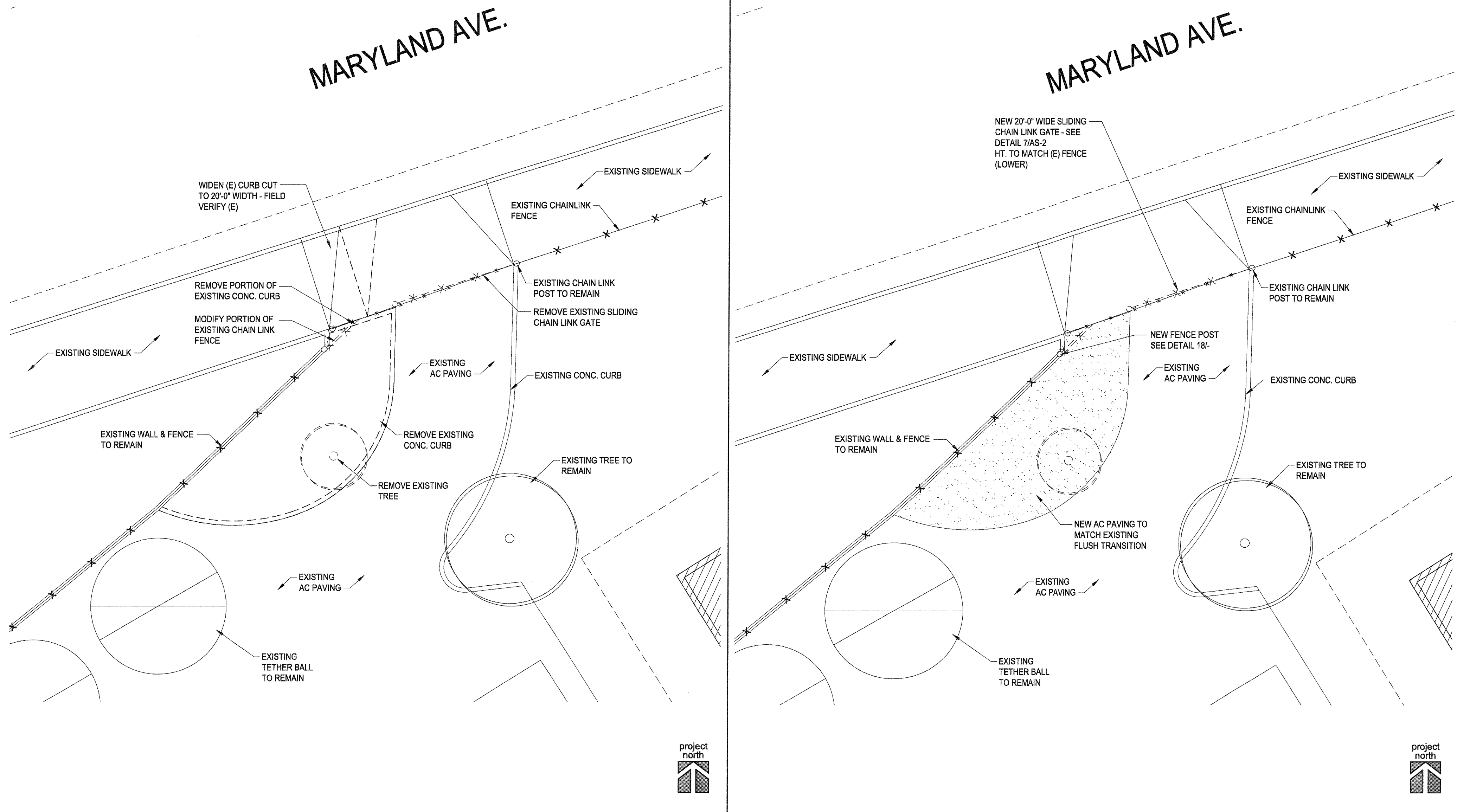
1



CHAIN LINK SLIDING GATE

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

7



ENLARGED DEMOLITION SITE PLAN

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

8

ENLARGED SITE PLAN

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

10

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Date: APR 29 2016

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**VALLEY VIEW ELEMENTARY SCHOOL
SHADE STRUCTURE**

4900 MARYLAND AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20988.00

file name:

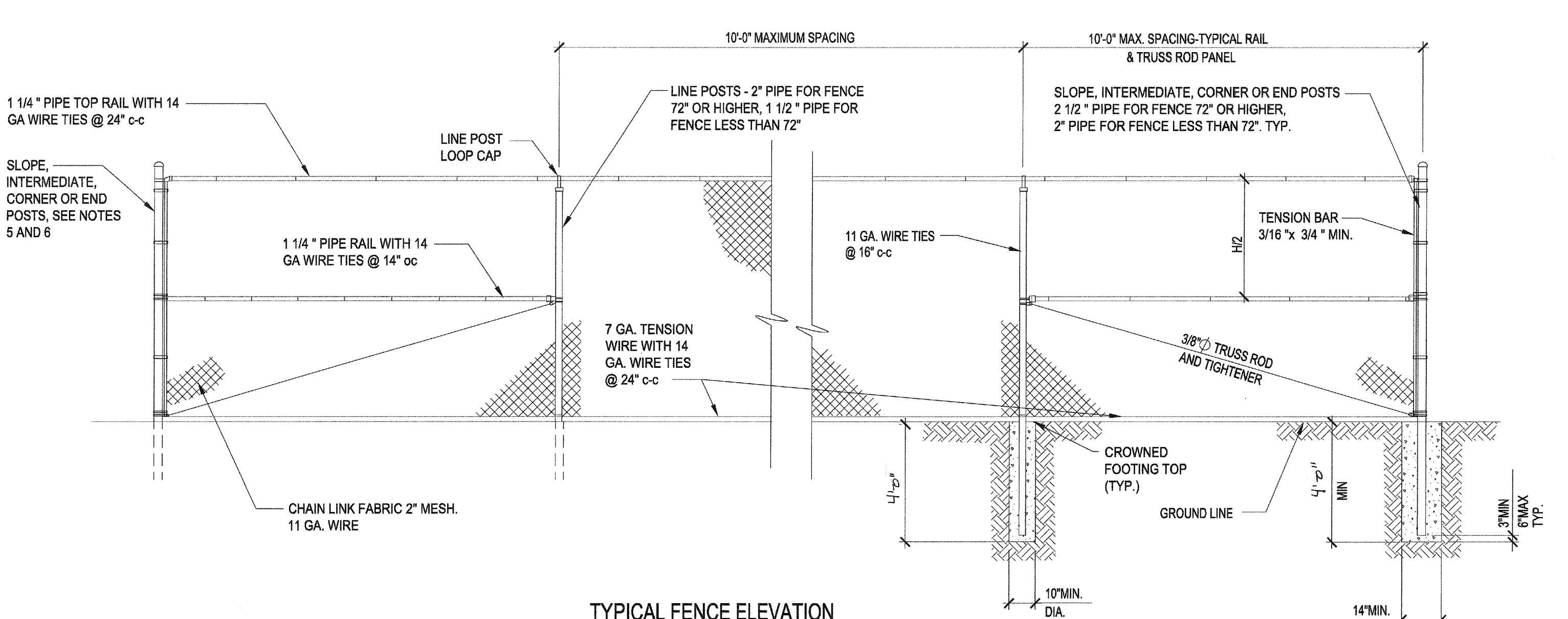
drawn by: checked by:

date: FEB. 09, 2016

Rev: date: description:

drawing title:
**ENLARGED SITE PLANS
& DETAILS**

drawing no.:
AS-2
drawing of



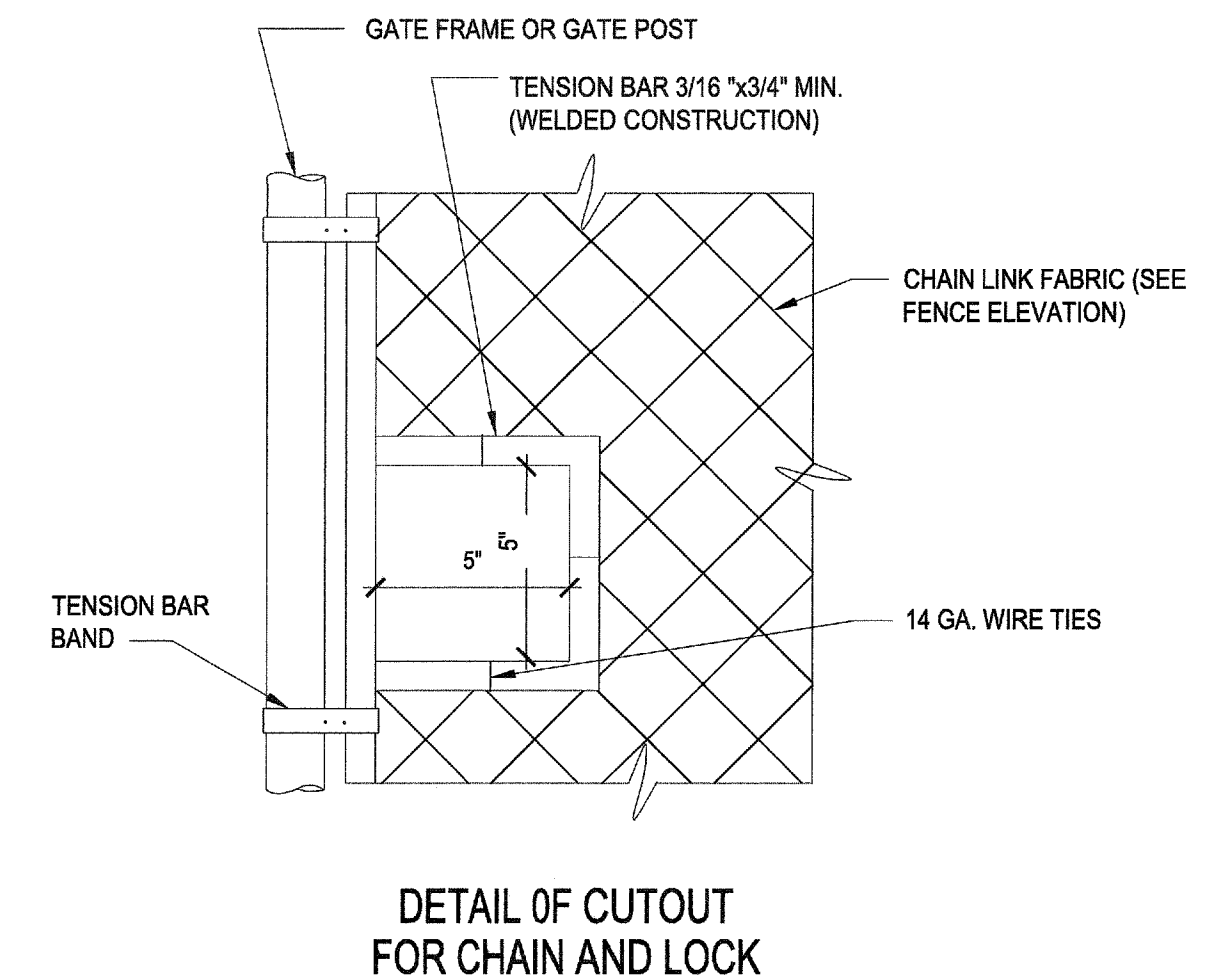
TYPICAL FENCE ELEVATION

NOTES

- ALL GATE HINGES SHALL BE HEAVY DUTY MALLEABLE IRON OR STEEL INDUSTRIAL SERVICE TYPE AND NOT LESS THAN 3-INCHES IN WIDTH.
- ALL TIES SHALL BE GALVANIZED STEEL.
- TOP CAP SHALL BE SECURED TO POST USING 1/4-INCH RIVET.
- CORNER OR SLOPE POSTS SHALL BE INSTALLED WHEN THE CHANGE IN DEFLECTION ANGLE IS 30 DEGREES OR MORE AT CORNER OR SLOPE POINTS. CONSTRUCT SLOPE POSTS AS THOUGH THEY WERE CORNER POSTS.
- INTERMEDIATE POSTS SHALL BE PROVIDED WHEN THE DISTANCE BETWEEN CORNER OR SLOPE POSTS EXCEEDS 300 FEET. THEY SHALL BE CONSTRUCTED AS THOUGH THEY WERE CORNER OR SLOPE POSTS.
- THREADS OF ALL 3/8-INCH ROUND TRUSS RODS SHALL BE PEENED AFTER INSTALLATION.
- WHEN TOP RAIL IS OMITTED BY PLAN, PROVIDE 7-GAGE TENSION WIRE WITH 11-GAGE FABRIC TIES OR HOG RINGS SPACED AT 24-INCH INTERVALS.
- TENSION WIRE SHALL BE SECURELY FASTENED TO THE TERMINAL POSTS AND BE TAUT AND FREE OF SAG.

GATE WIDTH	FOOTING MIN. DEPTH, D
SINGLE GATE TO 8'	4'-0"
DOUBLE GATE TO 24'	4'-0"

FENCE HEIGHT (H)	GATE WIDTH	NOMINAL SIZE OF PIPE INCHES	ACTUAL O.D. INCHES	WEIGHT PER FOOT POUNDS
6 FEET TO 8 FEET INCLUSIVE	SINGLE GATES 6 FEET OR LESS AND DOUBLE GATES 12 FEET OR LESS	2 1/2	2.875	5.79
6 FEET TO 8 FEET INCLUSIVE	SINGLE GATES 6 TO 12 FEET AND DOUBLE GATES 12 TO 24 FEET	3 1/2	4.00	9.11



DETAIL OF CUTOUT FOR CHAIN AND LOCK

CHAIN LINK FENCE AND GATES

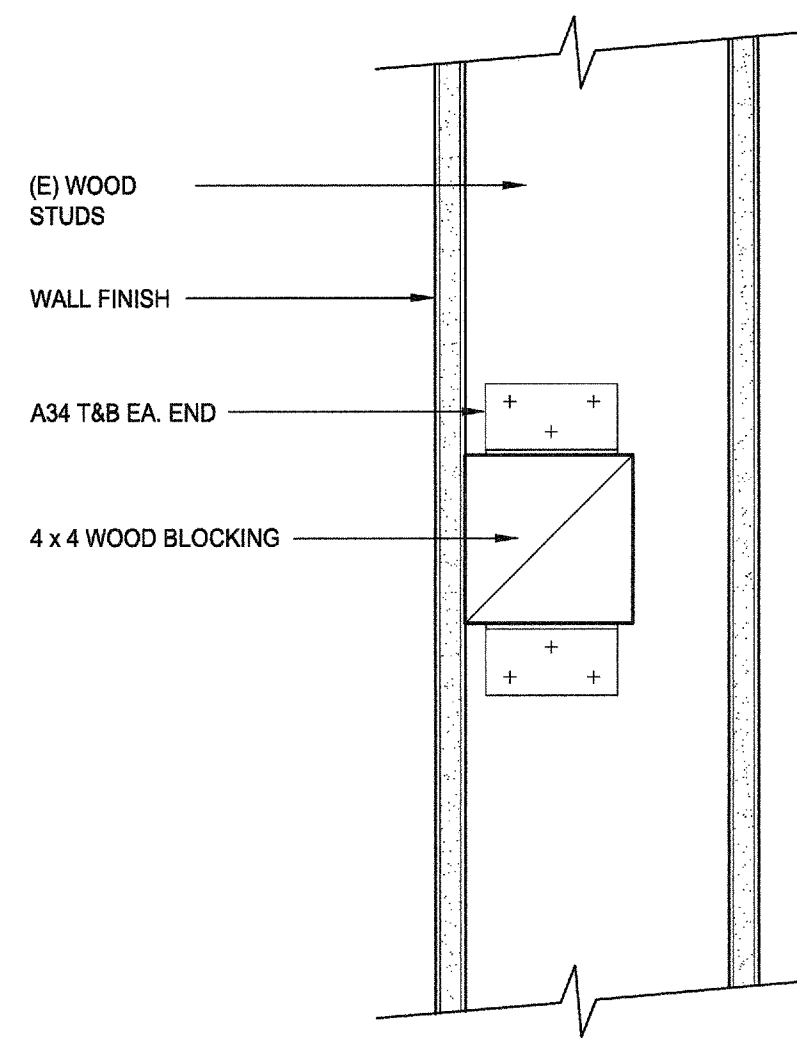
SCALE: N.T.S.

18

ENLARGED SITE PLAN

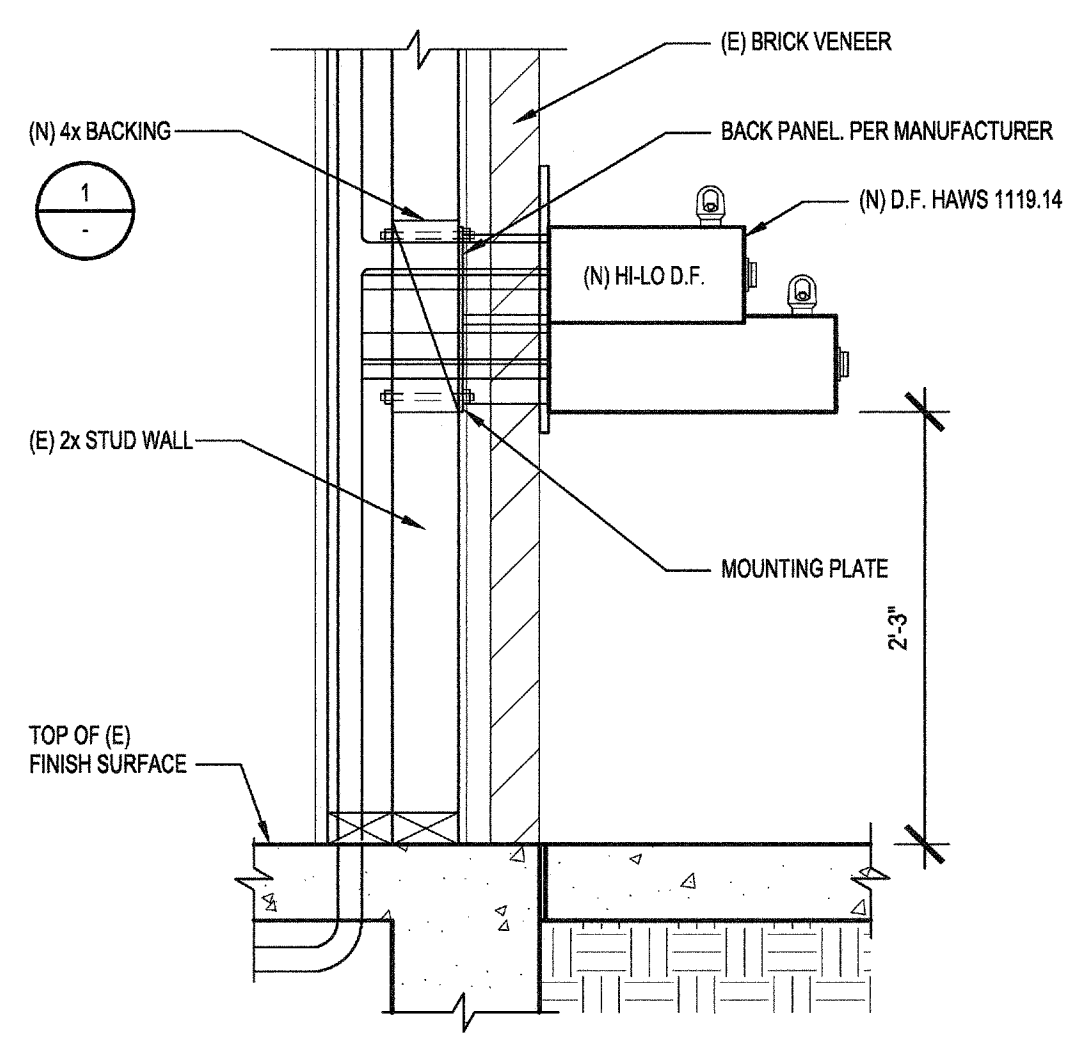
SCALE: 1/8" = 1'-0"

20



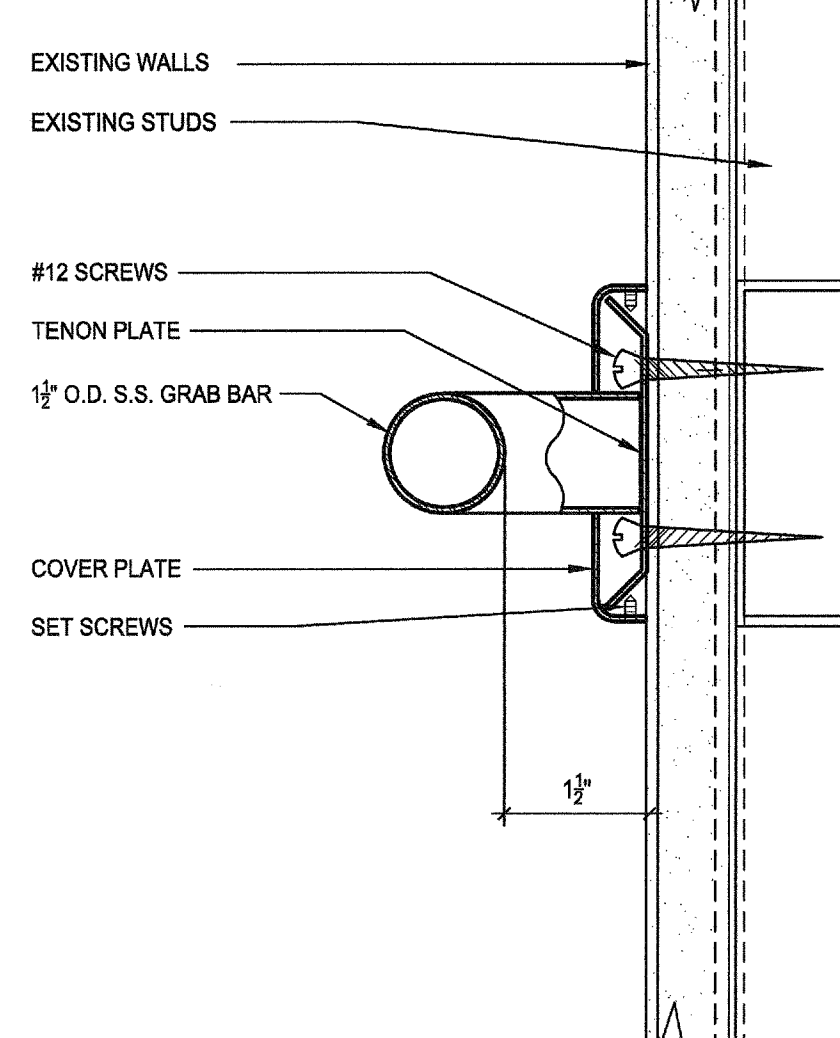
BACKING SECTION - WOOD STUDS

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



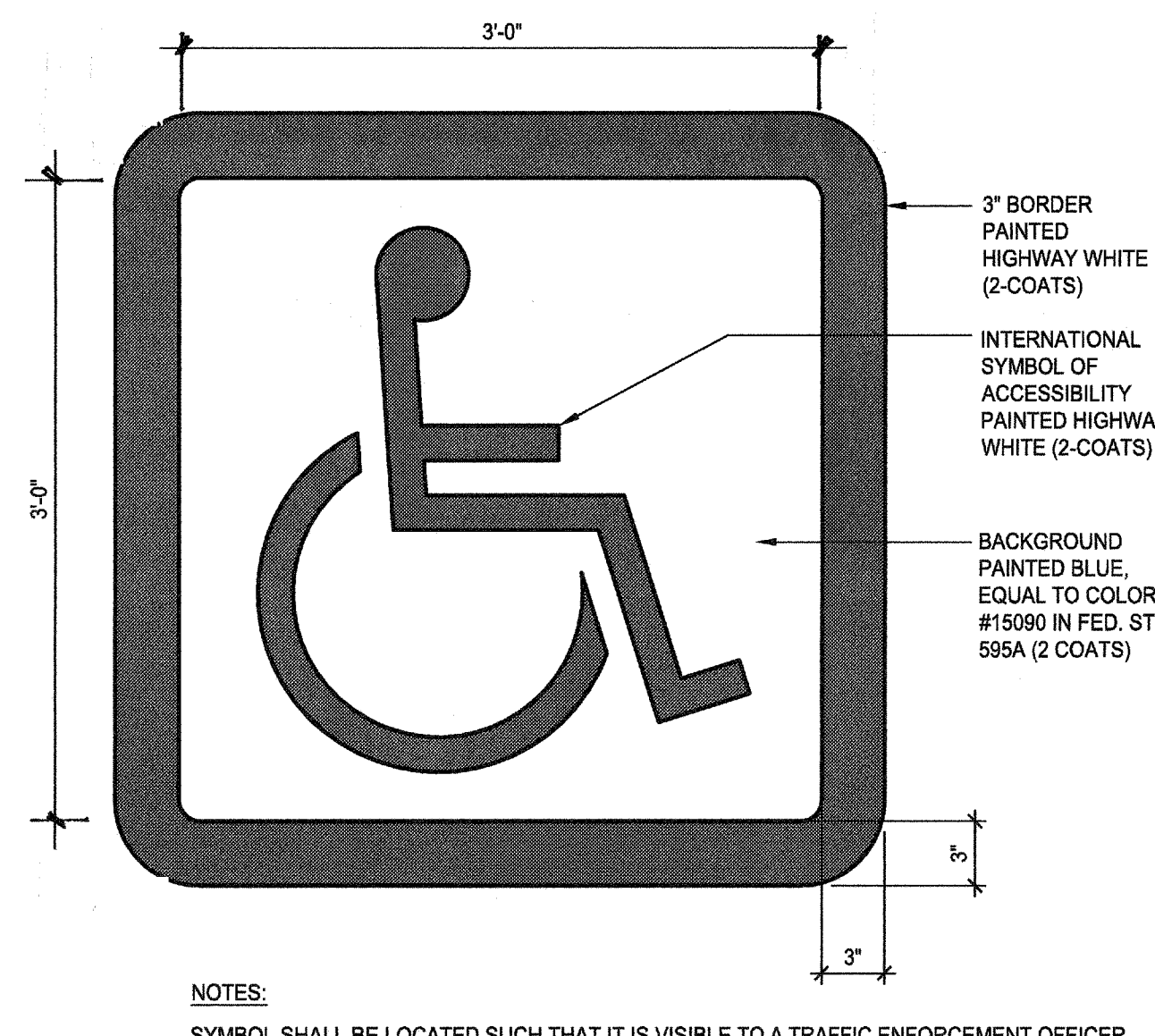
DRINKING FOUNTAIN @ EXT. BRICK WALL

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



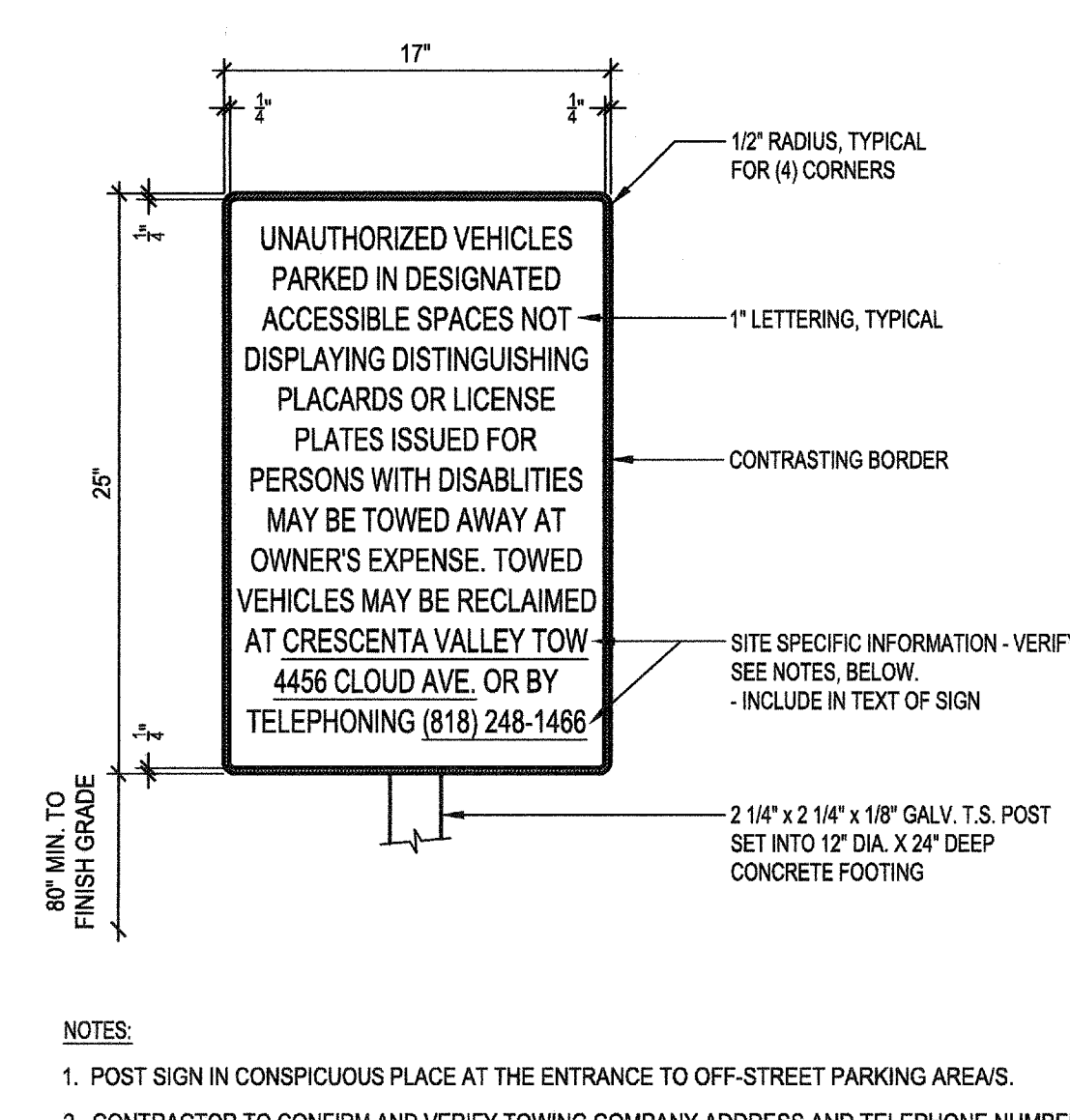
GRAB BAR - WALL MOUNTED

SCALE: HALF



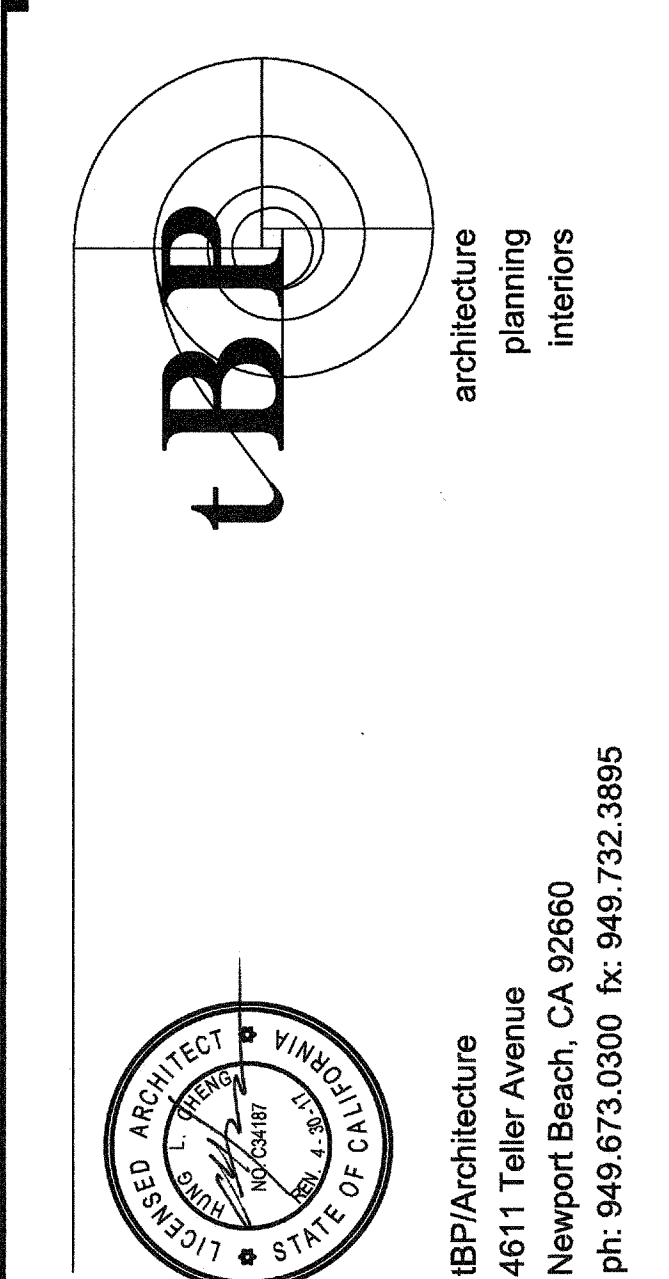
ACCESSIBLE PARKING SYMBOL

SCALE: 1/12" = 1'-0"



UNAUTHORIZED VEHICLE SIGNAGE

SCALE: 1/12" = 1'-0"



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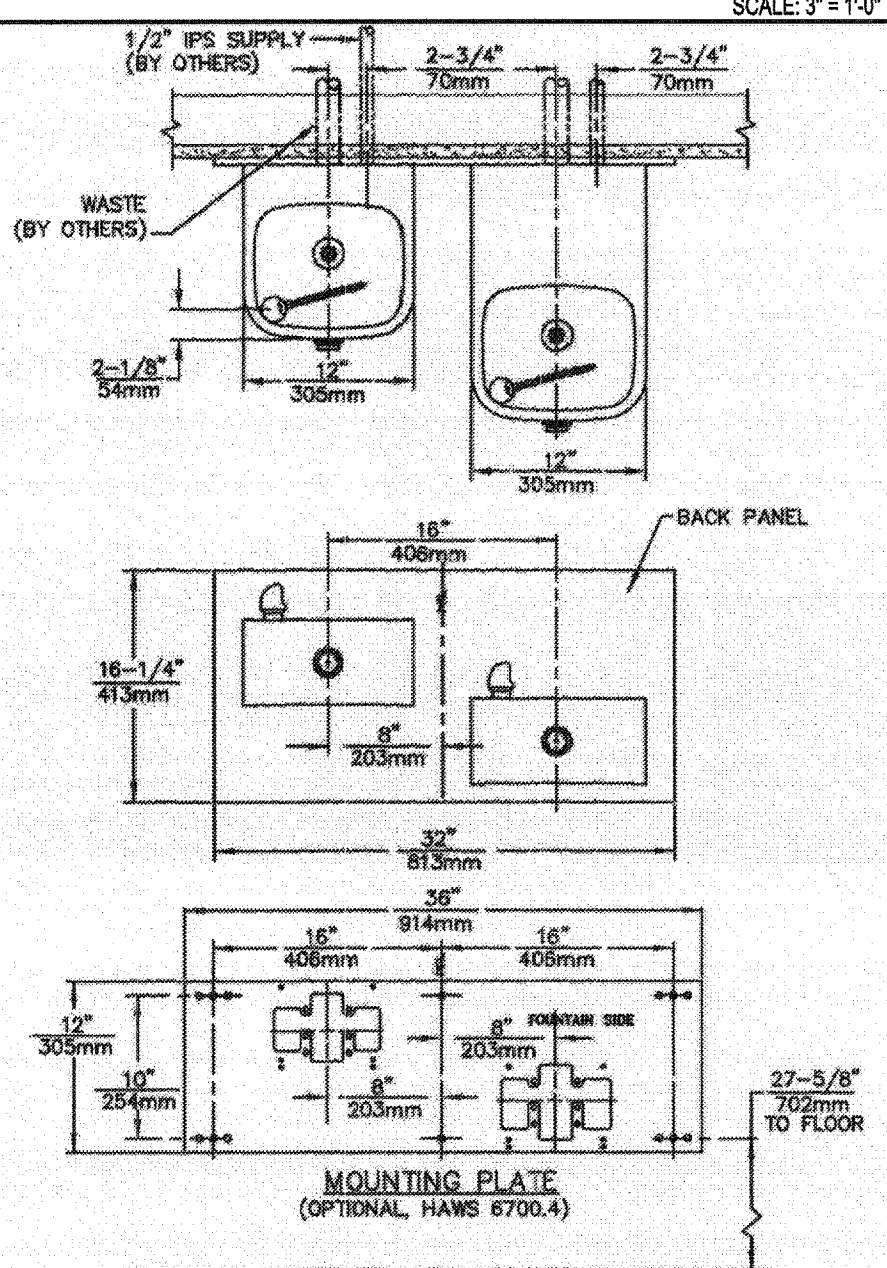
owner

IBP project number : 20098.00
file name: DL-2203.dwg
drawn by: checked by:
date: FEB. 08, 2016
Rev: date: description:

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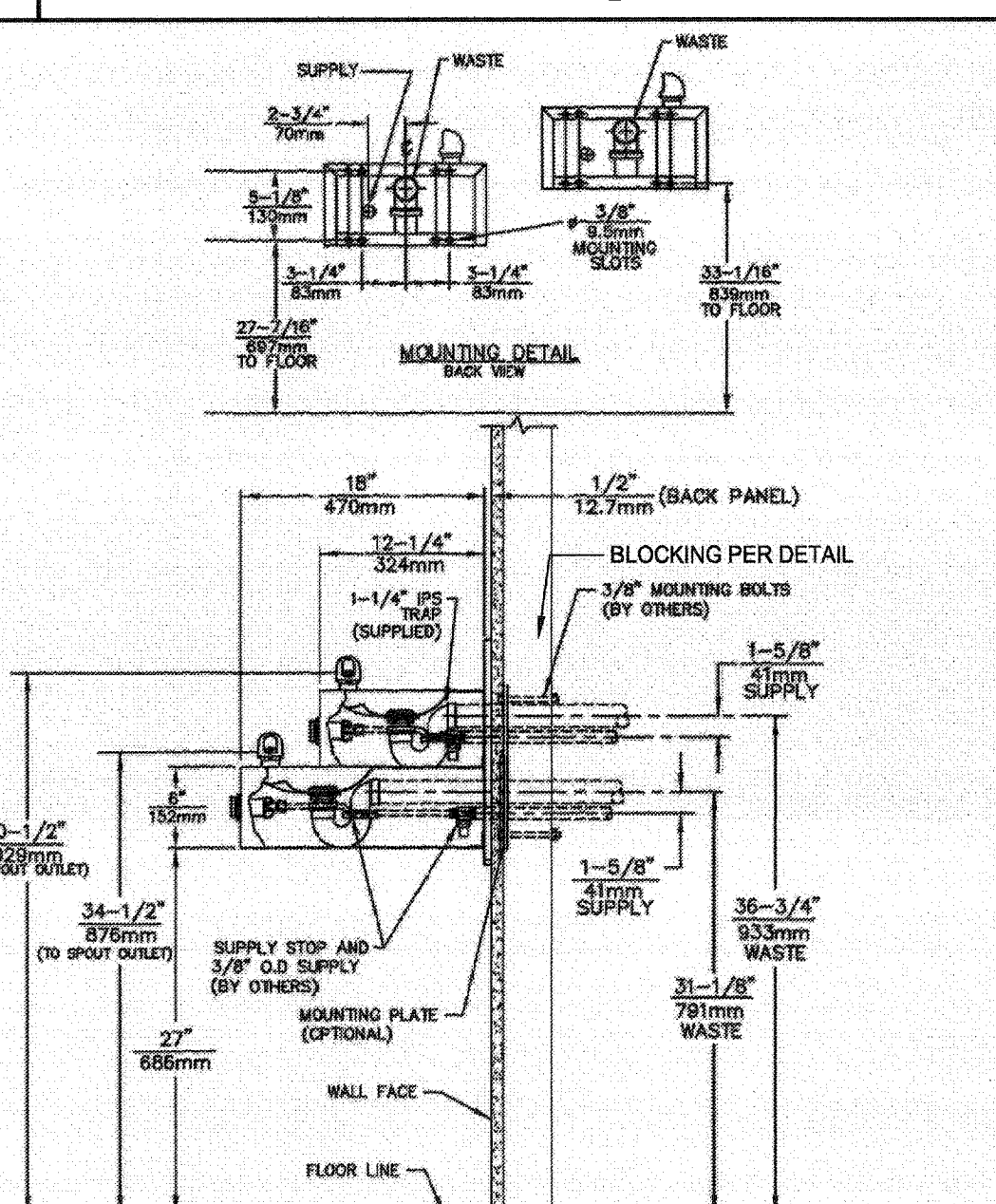
drawing title:
FENCE AND GATE DETAILS

drawing no.:
AS-3
drawing of



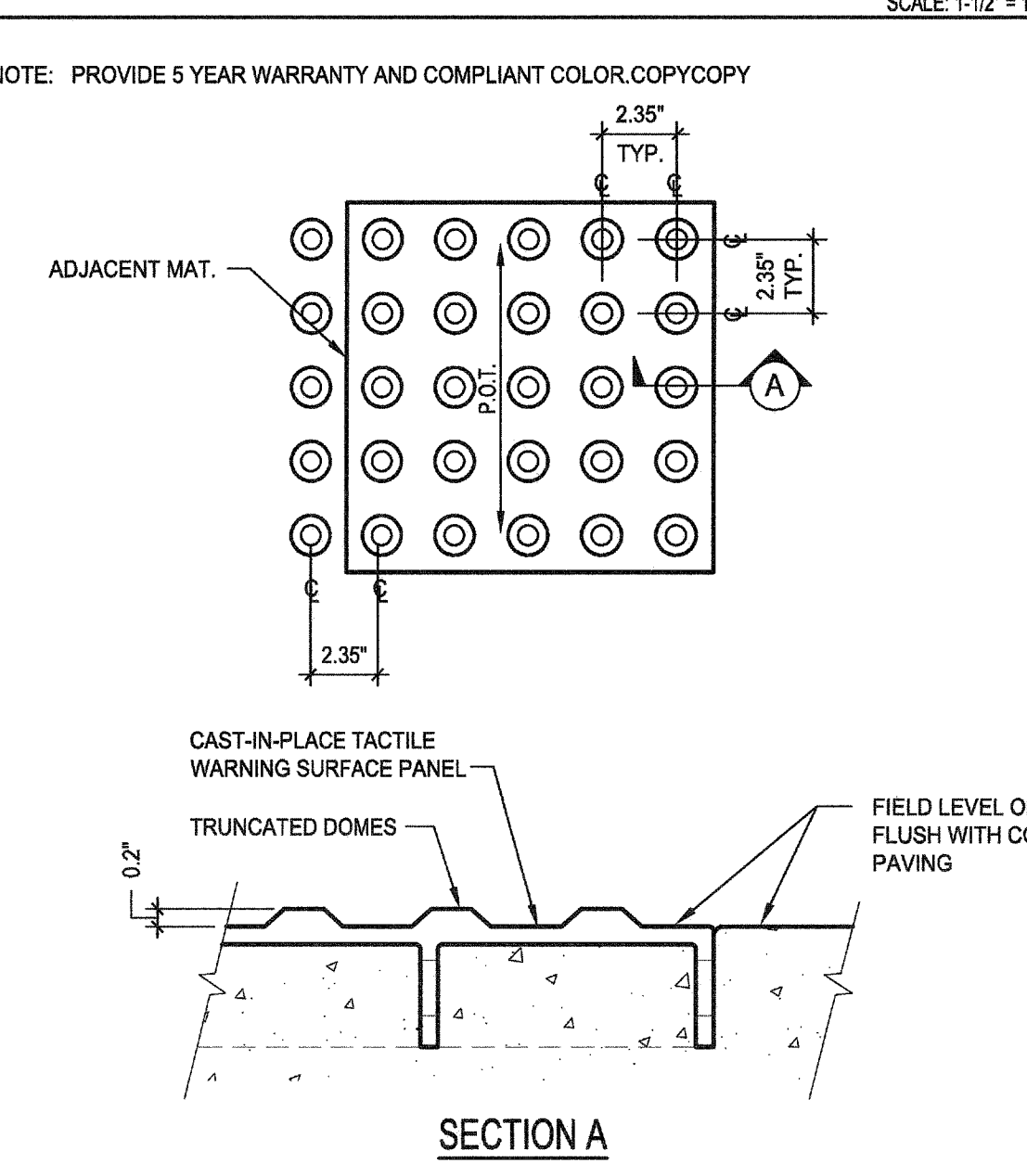
MOUNTING DRINKING FOUNTAIN DETAIL

SCALE: 1/2"



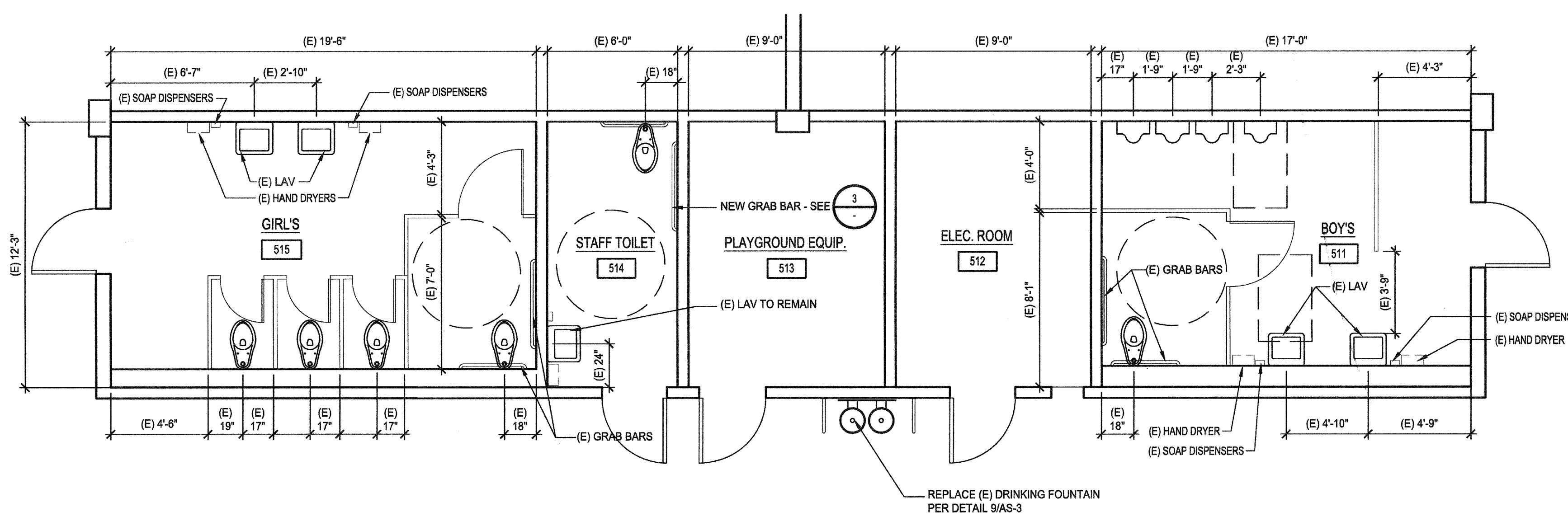
DRINKING FOUNTAIN DETAIL

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



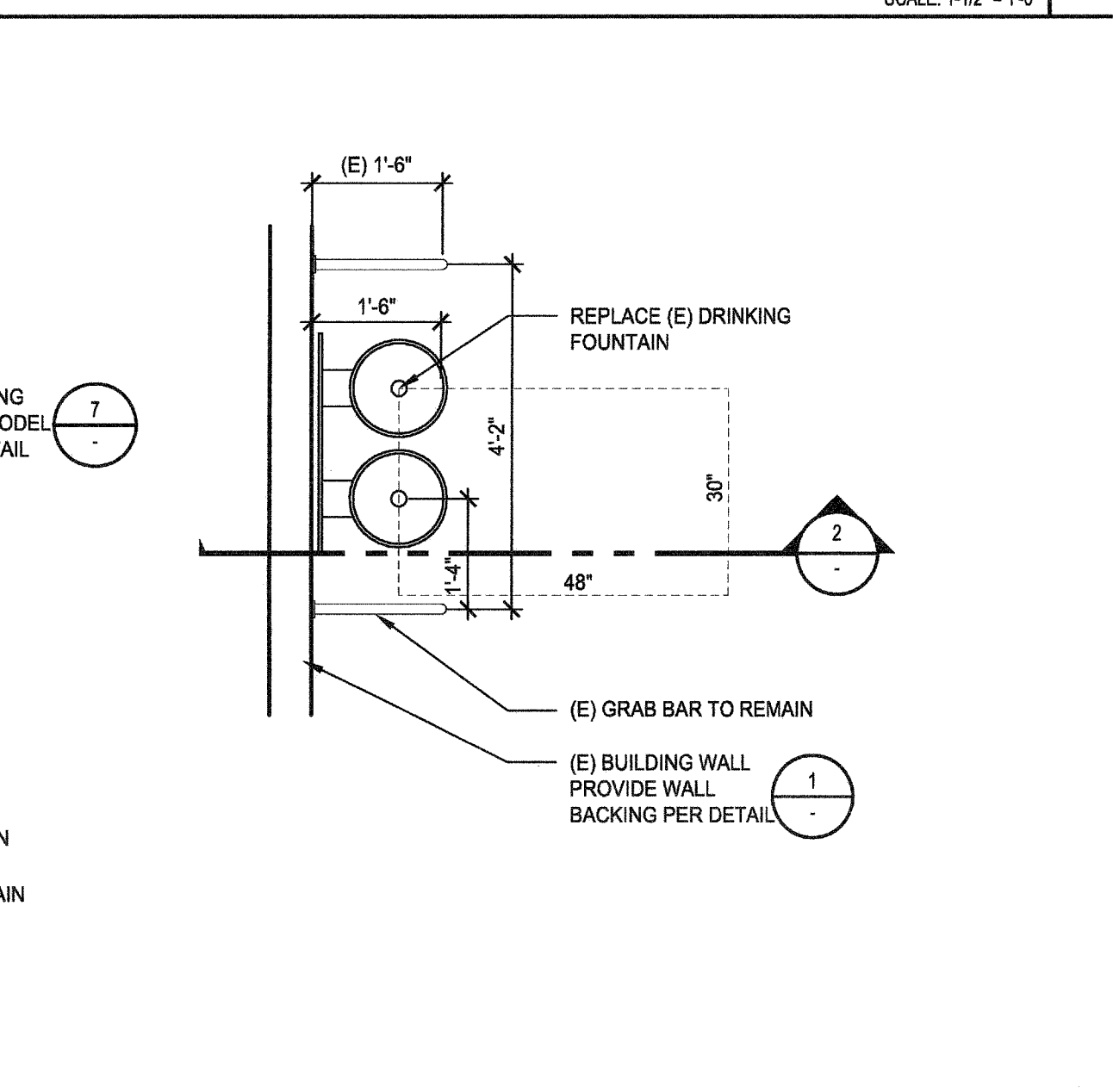
TACTILE PANELS

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



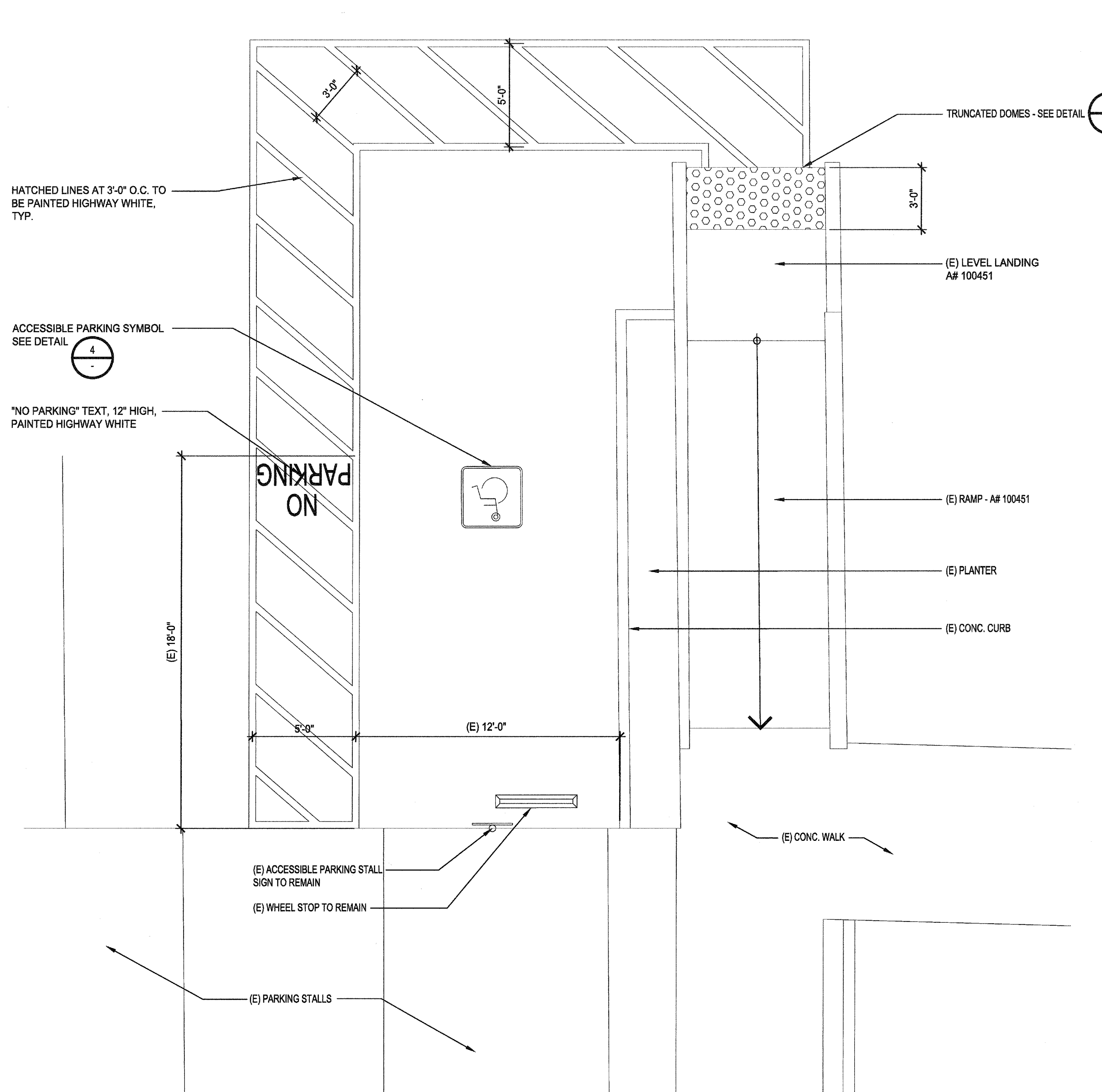
EXISTING RESTROOM PLANS

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



ACCESSIBLE DRINKING FOUNTAIN

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



ACCESSIBLE PARKING STALL

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

20

2016A

DESIGN VALUES:

Table with 2 columns: DESCRIPTION and DESIGN VALUES. Rows include Dead and Live Loads, Allowable Soil Pressure, Roof Snow Load, Flood Design, Wind Design, and Seismic Design.

ARCHITECTURAL REQUIREMENTS:

Table with 2 columns: DESCRIPTION and DESIGN VALUES. Rows include Type of Construction, Occupancy Classification, Number of Stories, Fire Hazard Severity Zone, and Fire Sprinkler System.

RELATED BUILDING CODES AND STANDARDS:

- List of applicable building codes and standards including California Administrative Code (CAC), California Building Code (CBC), California Electrical Code (CEC), California Mechanical Code (CMC), California Plumbing Code (CPC), California Energy Code (CEC), California Fire Code (CFC), and California Fire Building Standards Code.

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...
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.

STRUCTURAL AND MISCELLANEOUS STEEL:

- 1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERRECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION 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.

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

BEFORE SUBMITTING THESE PRE-CHECKED DRAWINGS FOR YOUR PROJECT, FOLLOW THE STEPS BELOW TO PROPERLY DEFINE THE APPROVED OPTIONS: THE POLYGON ENGINEERING DEPARTMENT IS AVAILABLE TO HELP YOU COMPLETE THESE STEPS (616-995-1968).

- STEP 1: SELECT FRAME DIMENSIONS FOR YOUR PROJECT
STEP 2: SELECT ROOF DECK FOR YOUR PROJECT
STEP 3: IDENTIFY THE Ss ACCELERATION (g) FOR YOUR PROJECT
STEP 4: IDENTIFY THE Ss REGION FOR YOUR PROJECT
STEP 5: IDENTIFY THE ROOF DEAD LOAD FOR YOUR PROJECT
STEP 6: IDENTIFY THE FOUNDATION REQUIREMENTS FOR YOUR PROJECT

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 CHАРRY NOTCH TOUGHNESS RATING OF 20 FT-LB @ (C° F).

BOLTING:

- 1. ALL BOLTS SHOWN ON THESE DRAWINGS ARE ASTM A325 HIGH STRENGTH BOLTS (UNCO), TYPE 3.
2. HIGH STRENGTH BOLTS SHALL BE SAMPLED AND TESTED IN COMPLIANCE WITH CBC 2213A.1.
3. BEFORE ERRECTING THE FRAME, VERIFY ALL BOLTS AND NUTS ARE CLEAN OF DEBRIS AND BURRS - INCLUDING THE HARDWARE ALREADY FASTENED INSIDE THE MEMBERS.

FOUNDATIONS:

- 1. 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. FLOORING NOT PERMITTED.

CONCRETE:

- 1. MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)
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.

Design forms for Step 1 (Frame Dimensions), Step 2 (Roof Deck Type), Step 3 (Ss Acceleration), Step 4 (Ss Regions), Step 5 (Total Roof Dead Load), and Step 6 (Foundation Requirements).

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:
2. DETAILING, FABRICATION, AND ERTECTION 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:

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 EQUIVA).

ABBREVIATIONS:

Table mapping abbreviations to full names. Columns include ACI, AISC, ASM, ASTM, AWS, CBC, CJP, CLR, DEG, DIA, DIM, DSA, EQ, FT, GA, IN, KSI, LH, MAX, MIN, MSC, MPH.

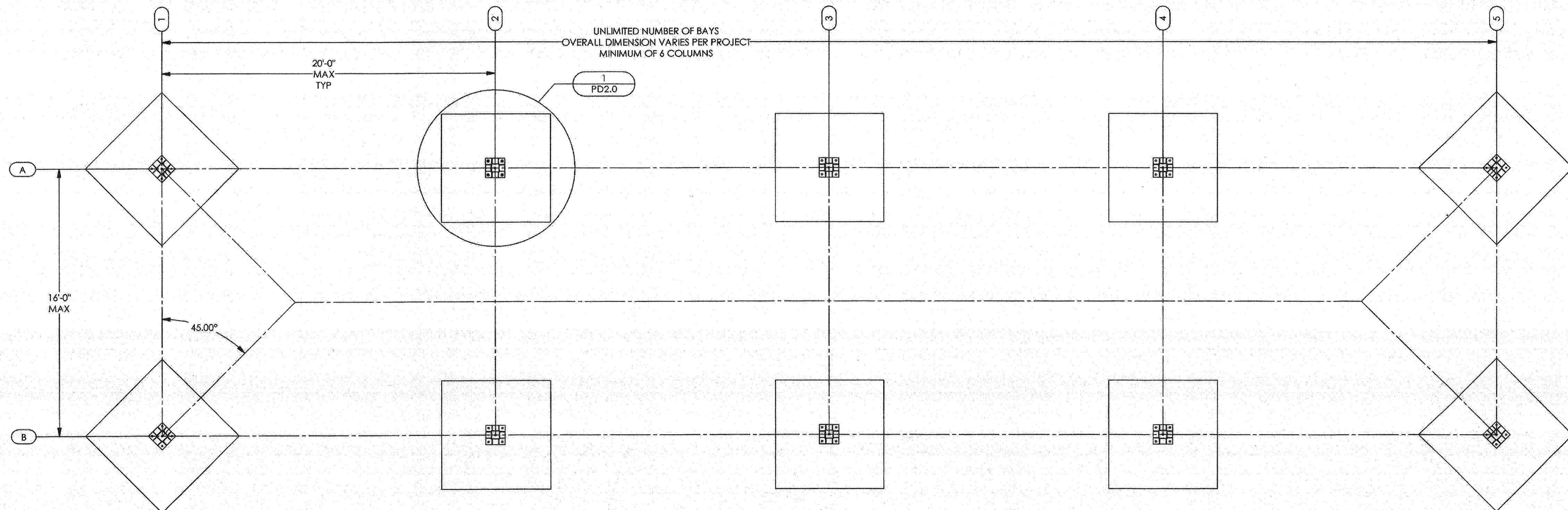
Design forms for Step 7 (Miscellaneous Design Options), Step 8 (Sheet Index), and Step 9 (Project Name and School District).

Professional Engineer seal for Carlton Engineering Inc. and State Approvals stamp.

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

GENERAL NOTES
DRAWN BY: JMD
CHECKED BY: CE
POLYGON #.: 511458
HIP ROOF (RAM)
PC DRAWINGS
GENERAL NOTES
POLYGON #.: 511458

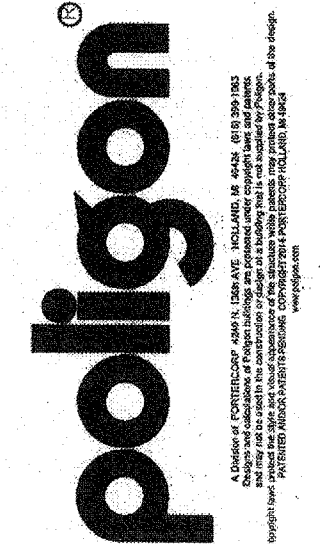
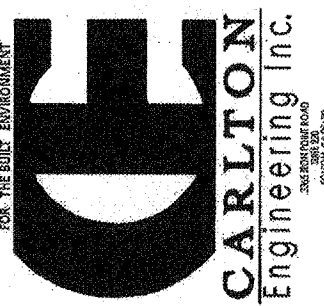
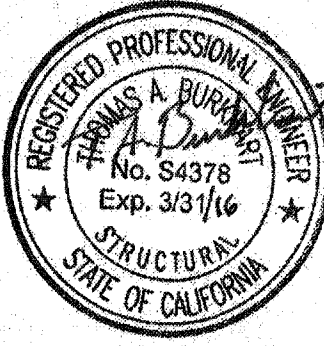
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 117045
Date APR 29 2016



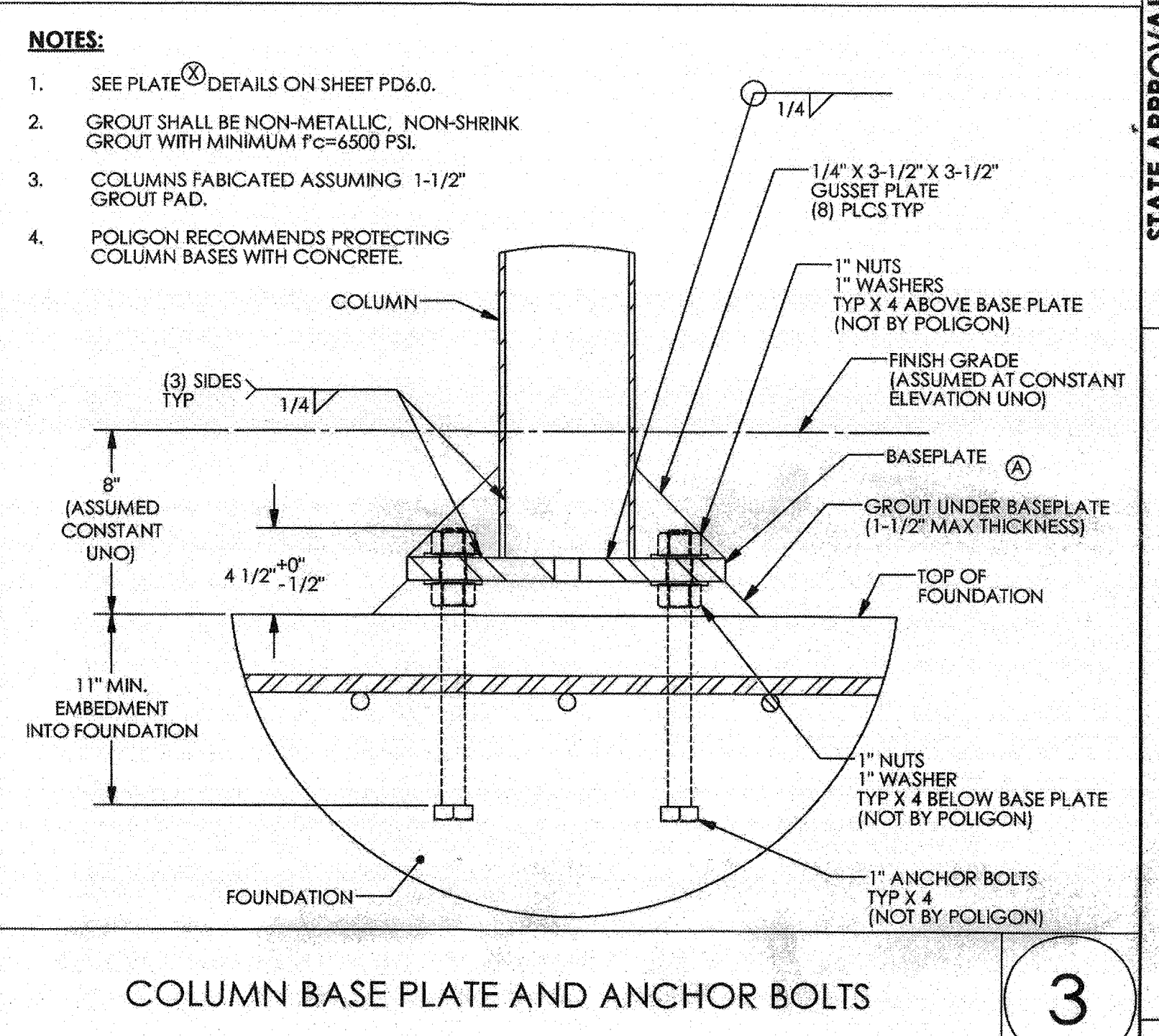
FOUNDATION PLAN (SPREAD PAD)
SCALE: 1/4" = 1'-0"

FOUNDATION PLAN NOTES:

1. TOP OF ALL FOUNDATIONS MUST BE CONSTRUCTED AT ONE COMMON ELEVATION (COORDINATE WITH SITE PLANS - NOT BY POLYGON)
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 POLYGON.
6. VIBRATE CONCRETE FULL DEPTH OF FOUNDATION.
7. FOR DRILLED PIER FOUNDATIONS, PREVENT SOIL FROM ENTERING EXCAVATED HOLE (FORM, ETC).



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ACN FLS SS Rev
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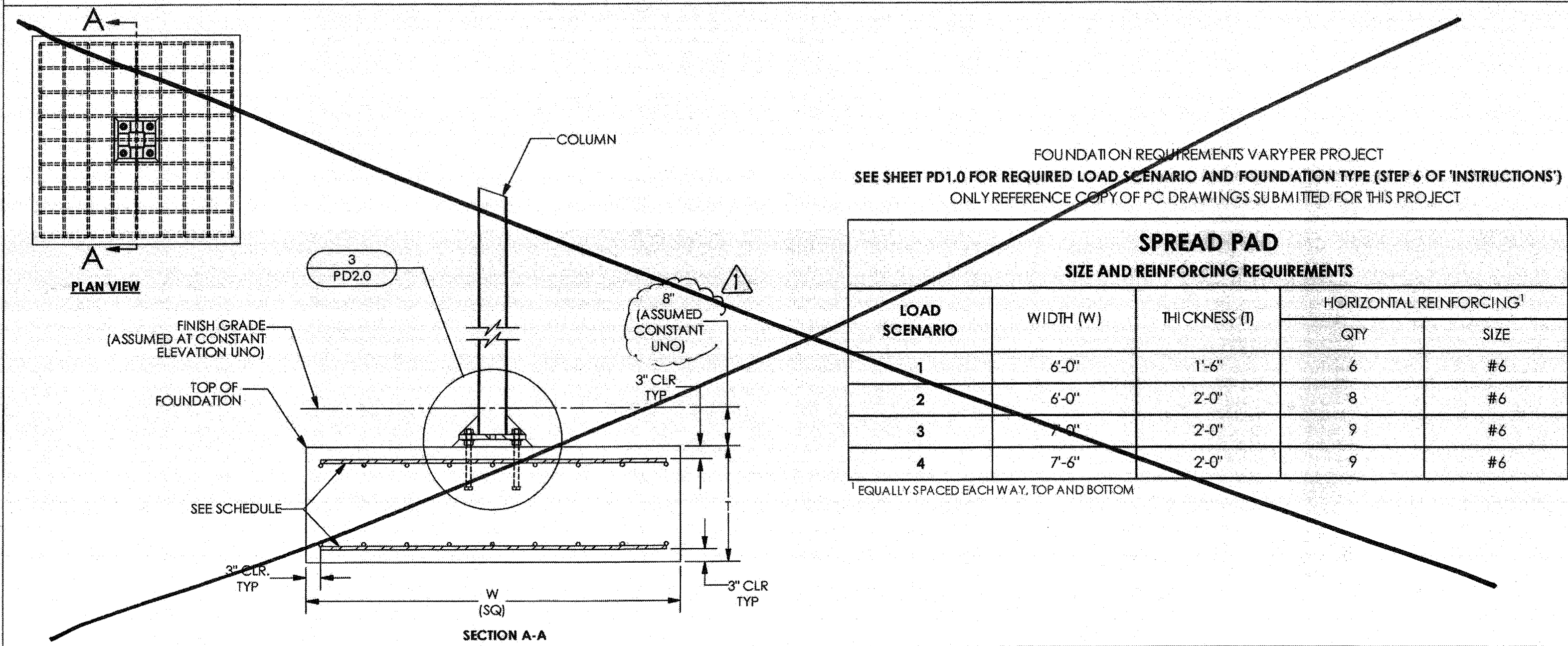


NOTES:

1. SEE PLATE DETAILS ON SHEET PD6.0.
2. GROUT SHALL BE NON-METALLIC, NON-SHRINK GROUT WITH MINIMUM Fc=6000 PSF.
3. COLUMNS FABRICATED ASSUMING 1-1/2" GROUT PAD.
4. POLYGON RECOMMENDS PROTECTING COLUMN BASES WITH CONCRETE.

COLUMN BASE PLATE AND ANCHOR BOLTS

3



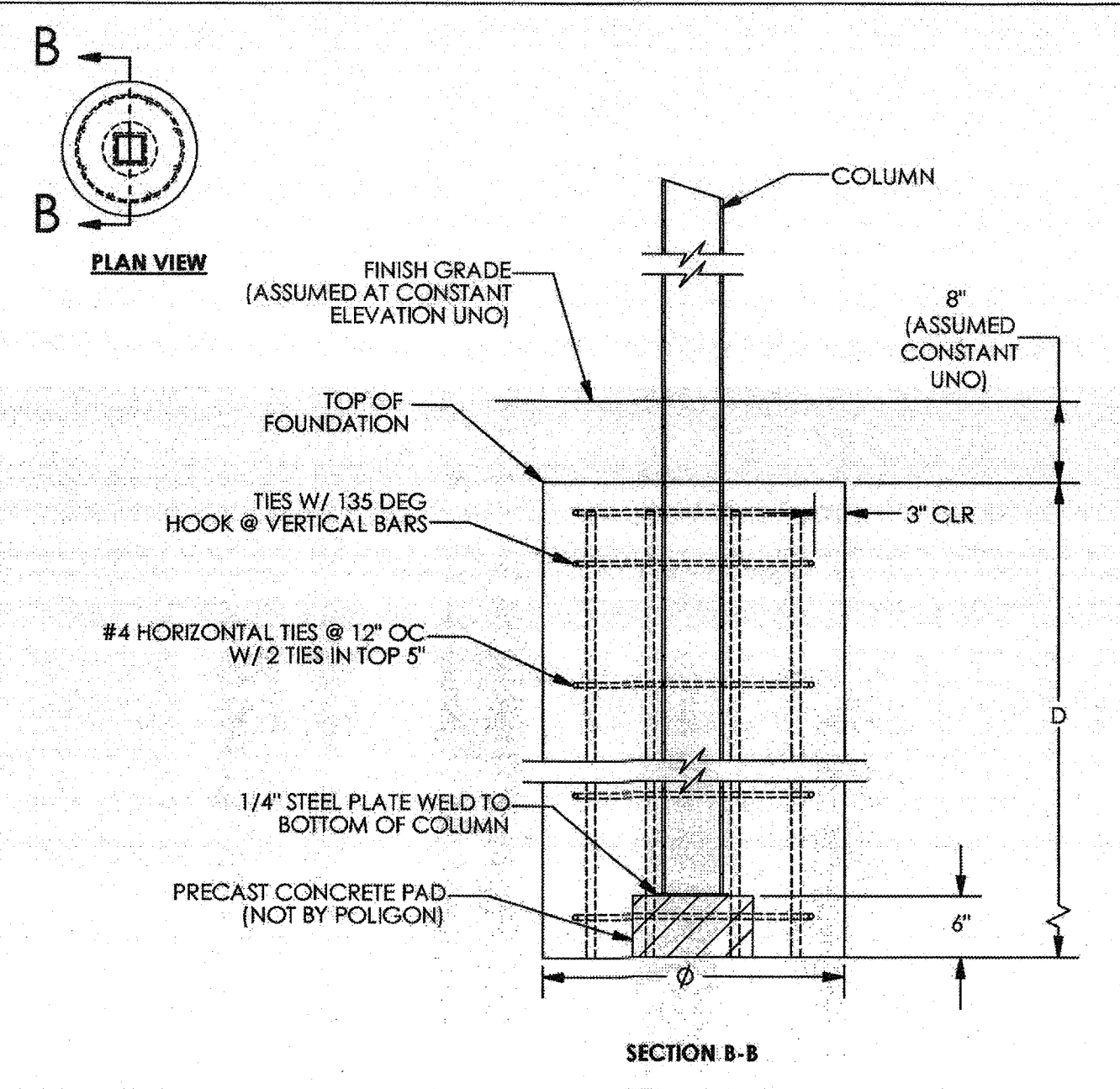
FOUNDATION REQUIREMENTS VARY PER PROJECT
SEE SHEET PD1.0 FOR REQUIRED LOAD SCENARIO AND FOUNDATION TYPE (STEP 6 OF INSTRUCTIONS)
ONLY REFERENCE COPY OF PC DRAWINGS SUBMITTED FOR THIS PROJECT

LOAD SCENARIO	WIDTH (W)	THICKNESS (T)	HORIZONTAL REINFORCING ¹	
			QTY	SIZE
1	6'-0"	1'-6"	6	#6
2	6'-0"	2'-0"	8	#6
3	7'-0"	2'-0"	9	#6
4	7'-6"	2'-0"	9	#6

¹EQUALLY SPACED EACH W WAY, TOP AND BOTTOM

SPREAD PAD FOUNDATION

1



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

LOAD SCENARIO	DIAMETER (Ø)	DEPTH (D)	VERTICAL REINFORCING ¹	
			QTY	SIZE
1	2'-0"	2'-0"	6	#6
2	2'-0"	2'-0"	8	#6
3	2'-0"	2'-0"	8	#6
4	2'-6"	11'-0"	8	#6

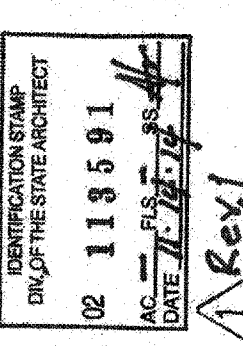
¹EQUALLY SPACED AROUND DRILLED PIER

PRIOR TO CONCRETE PLACEMENT, POLYGON 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

STATE APPROVALS



PRE-CHECK (PC) DOCUMENT

CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

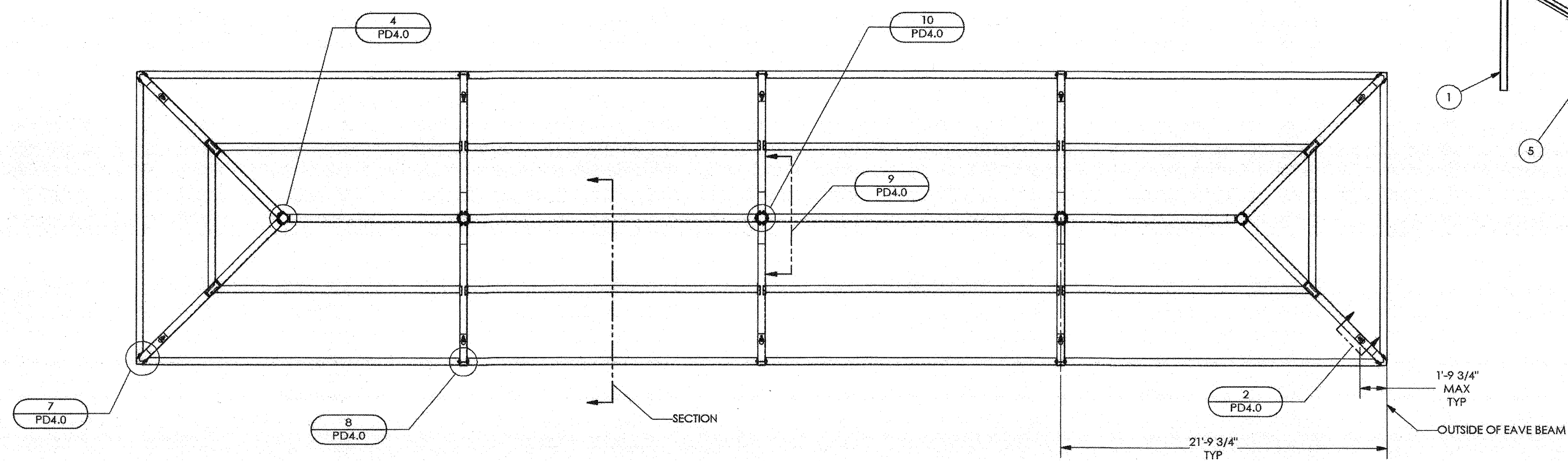
FOUNDATION PLAN
RAM 20

HIP ROOF (RAM)
PC DRAWINGS

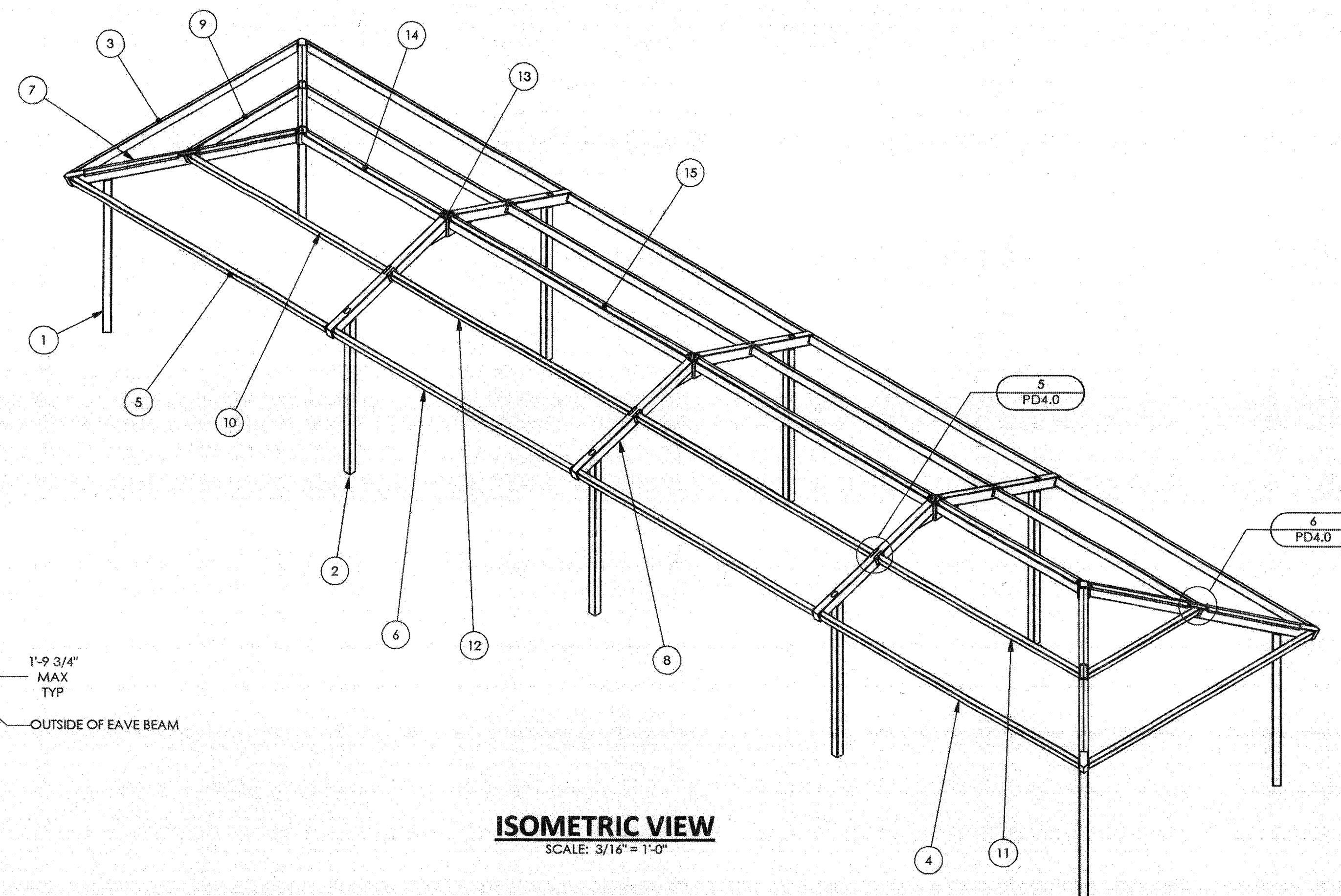
DRAWN BY: JMD
CHECKED BY: CE
POLYGON #: 51498

PD2.0

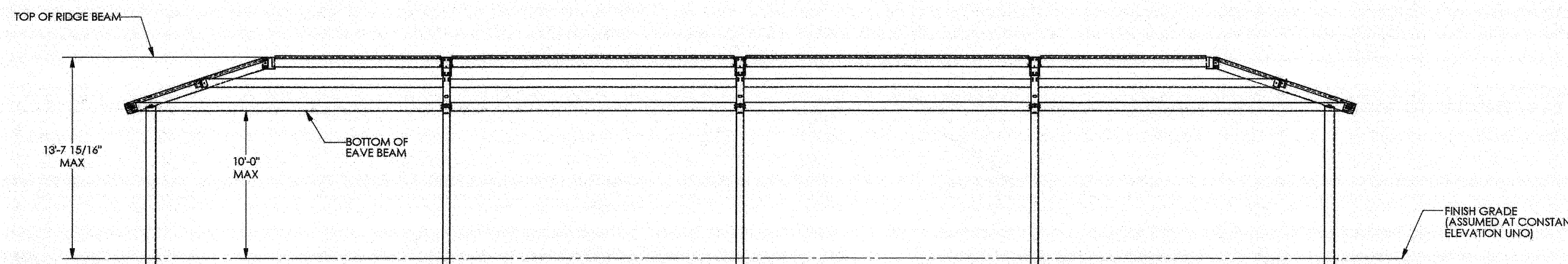
2014A



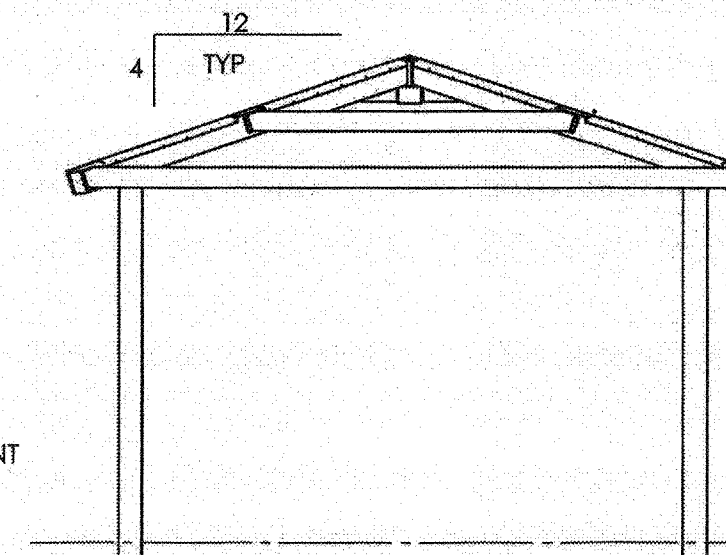
PLAN VIEW
SCALE: 3/16" = 1'-0"



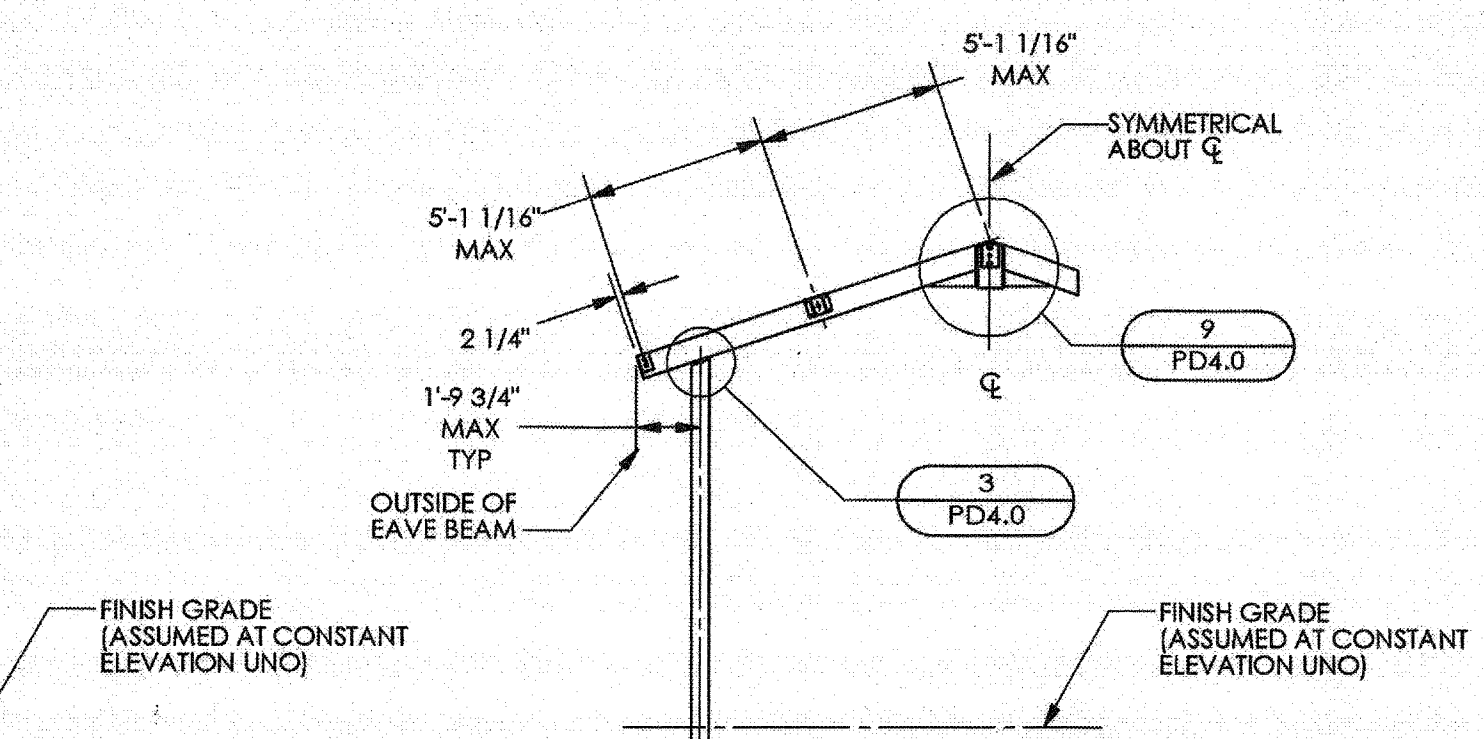
ISOMETRIC VIEW
SCALE: 3/16" = 1'-0"



FRONT ELEVATION
SCALE: 3/16" = 1'-0"



SIDE ELEVATION
SCALE: 3/16" = 1'-0"



SECTION
SCALE: 3/16" = 1'-0"

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ITEM	FRAME/QTY.	PART NO.	DESCRIPTION	MATERIAL
15	2	-	RIDGE BEAM ASM, MID	HSSBx6x3/16
14	2	-	RIDGE BEAM ASM, END	HSSBx6x3/16
13	3	-	COMPRESSION TUBE ASM	HSSBx8x5/8
12	4	-	PURLIN ASM, SIDE	HSS6x4x3/16
11	2	-	PURLIN ASM, RH	HSS6x4x3/16
10	2	-	PURLIN ASM, LH	HSS6x4x3/16
9	2	-	PURLIN ASM, END	HSS6x4x3/16
8	6	-	GABLE BEAM ASM	HSSBx6x3/16
7	4	-	HIP BEAM ASM	HSSBx6x3/16
6	4	-	EAVE BEAM ASM, SIDE	HSS6x4x1/8
5	2	-	EAVE BEAM ASM, RH	HSS6x4x1/8
4	2	-	EAVE BEAM ASM, LH	HSS6x4x1/8
3	2	-	EAVE BEAM ASM, END	HSS6x4x1/8
2	6	-	COLUMN ASM, SIDE	HSS6x6x1/4
1	4	-	COLUMN ASM, CORNER	HSS6x6x1/4



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CARLTON
Engineering Inc.

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APR 23 2016

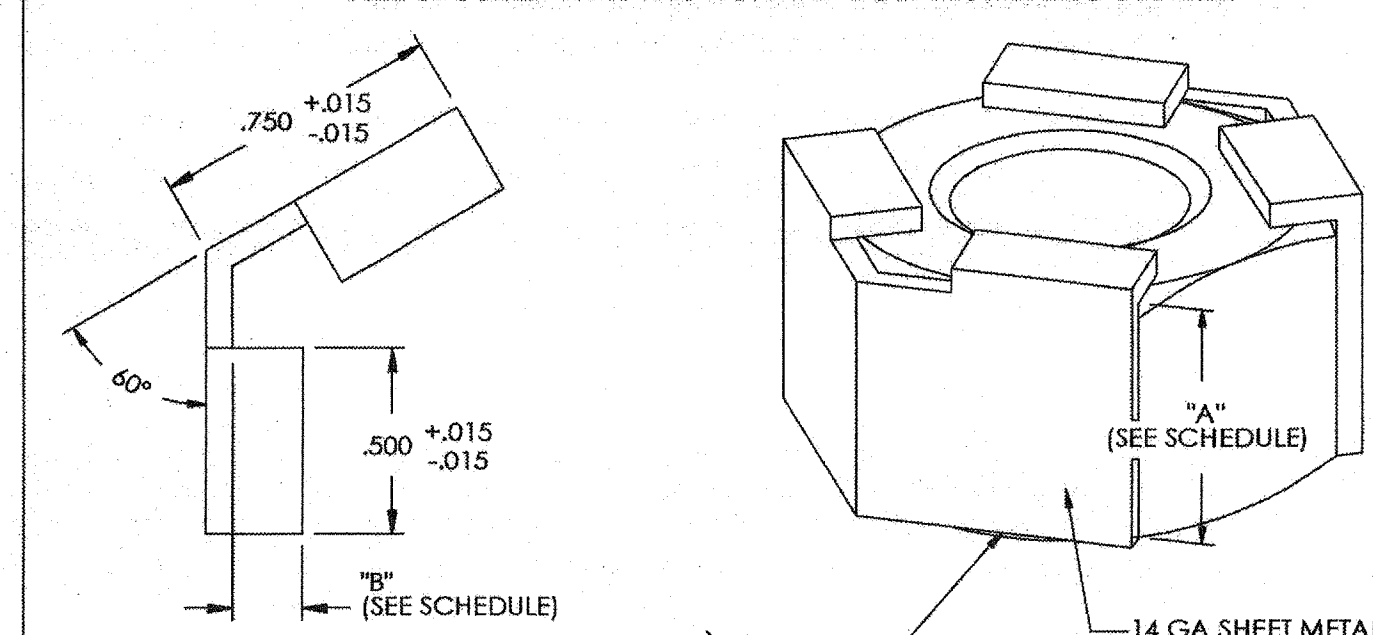
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CODE 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

FRAMING PLAN
RAM 20
HIP ROOF (RAM)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLYGON #: 51458

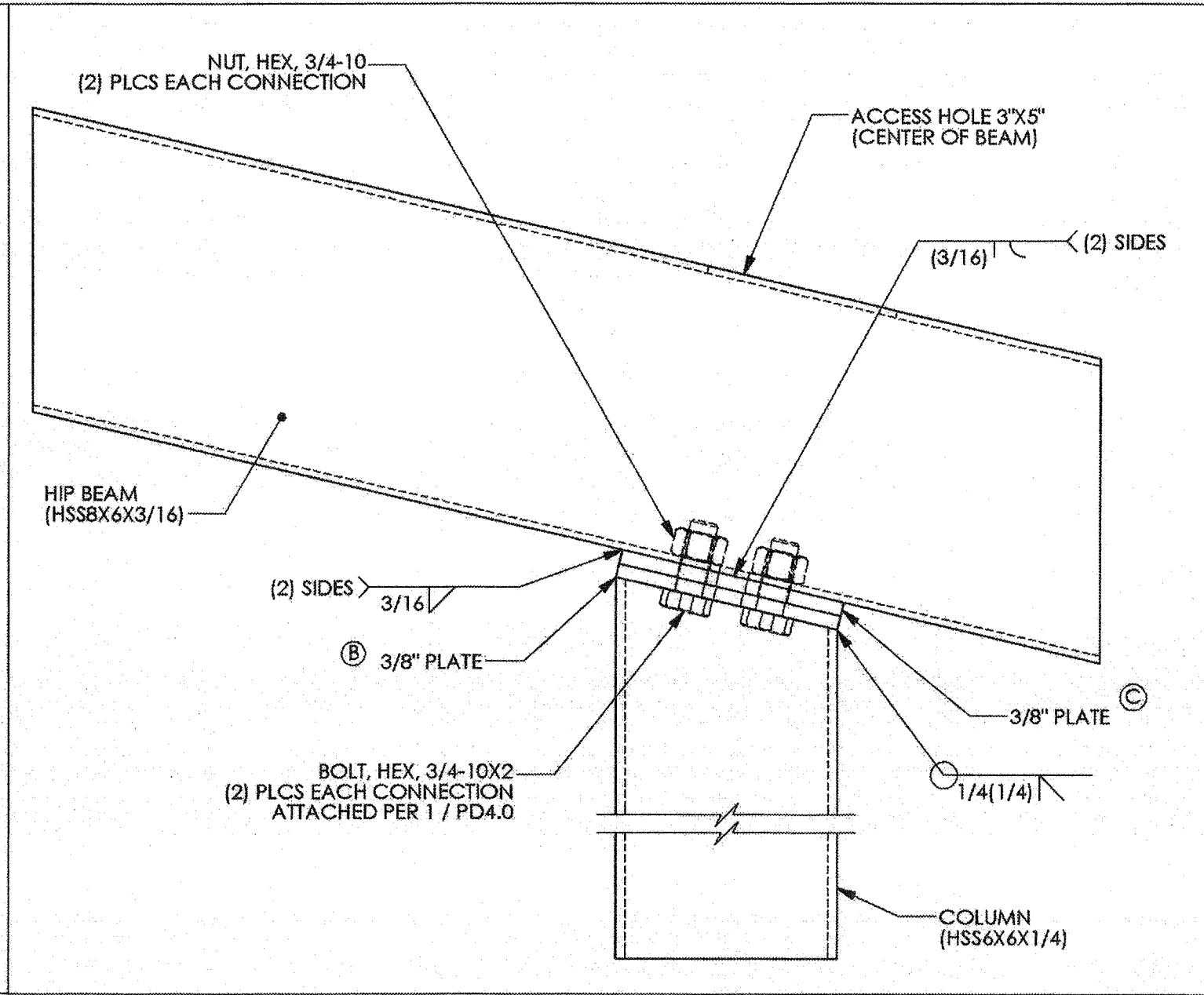
PD3.0

2014A
ALL HIDDEN NUTS AND BOLTS (INSTALLED IN SHOP DURING FABRICATION) ARE SECURED WITH THIS NUT AND BOLT RESTAINING SYSTEM.

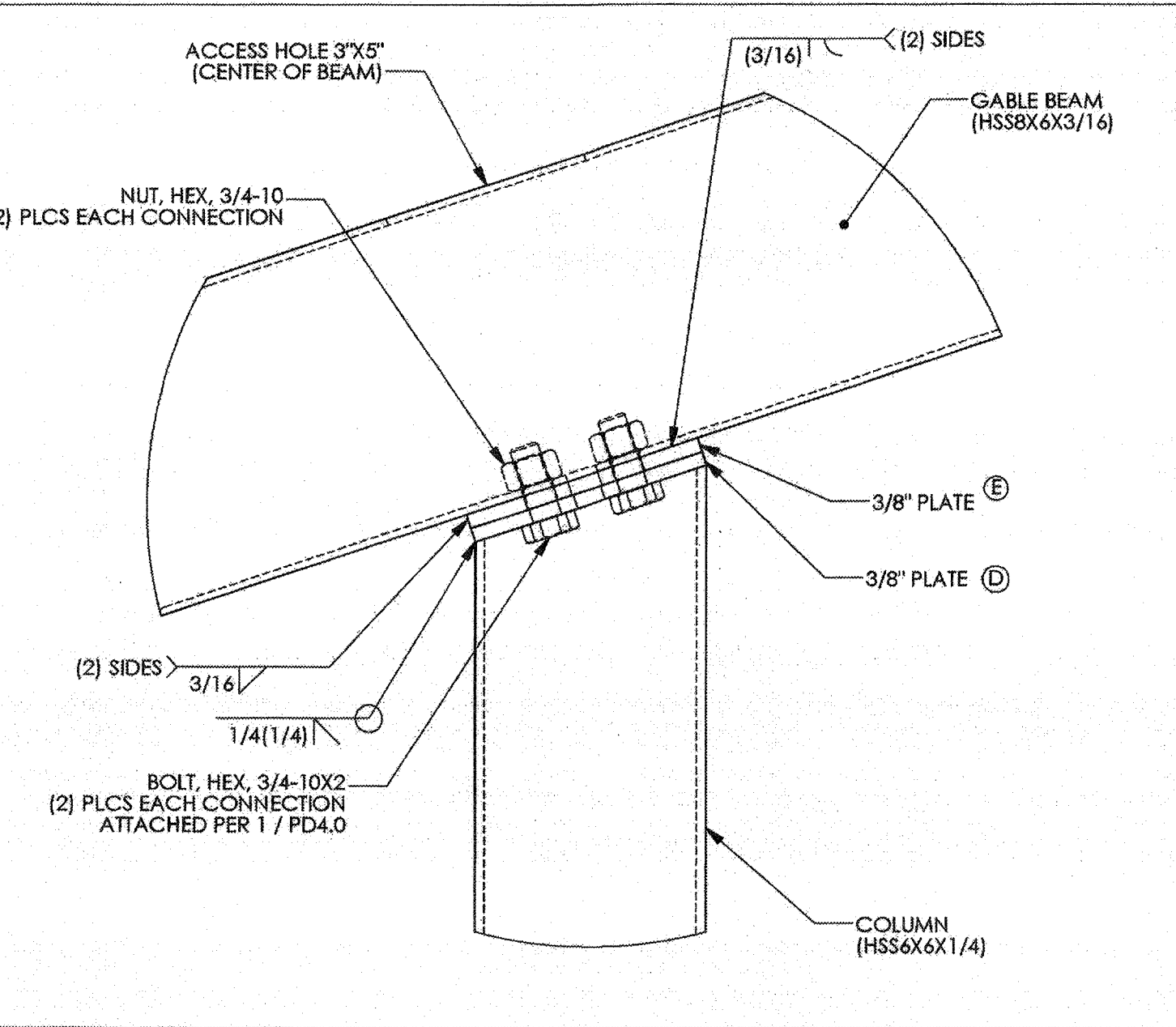


DIMENSION SCHEDULE			
FASTENER	DIM A	DIM B	
5/8" NUT	.631 +.000 / -.015	.180	+.015 / -.015
5/8" BOLT	.403 +.000 / -.015	.250	+.015 / -.015
3/4" NUT	.758 +.000 / -.015	.180	+.015 / -.015
3/4" BOLT	.483 +.000 / -.015	.375	+.015 / -.015
1" NUT	1.012 +.000 / -.015	.180	+.015 / -.015
1" BOLT	.643 +.000 /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

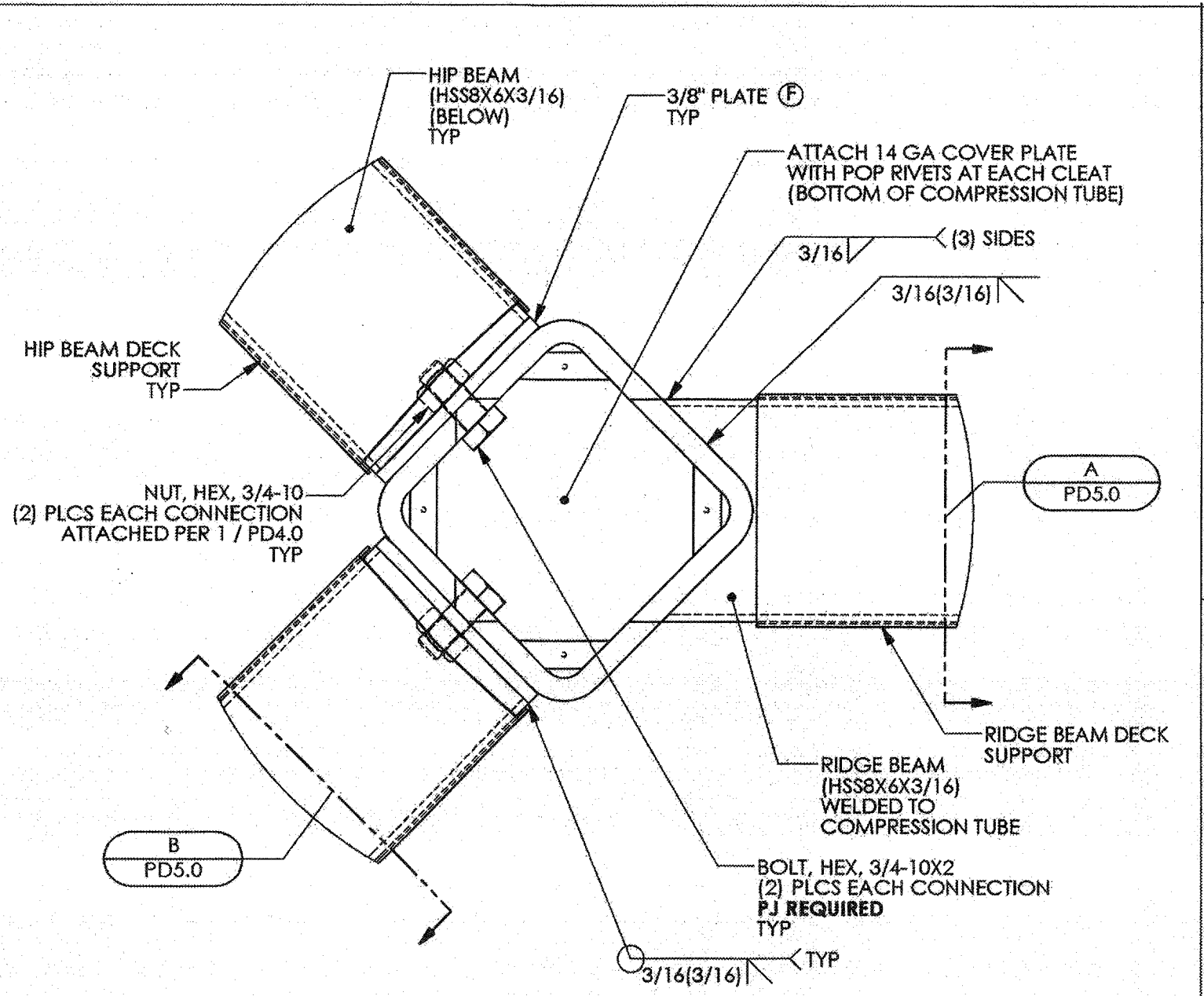
NUT & BOLT RESTRAINING SYSTEM 1



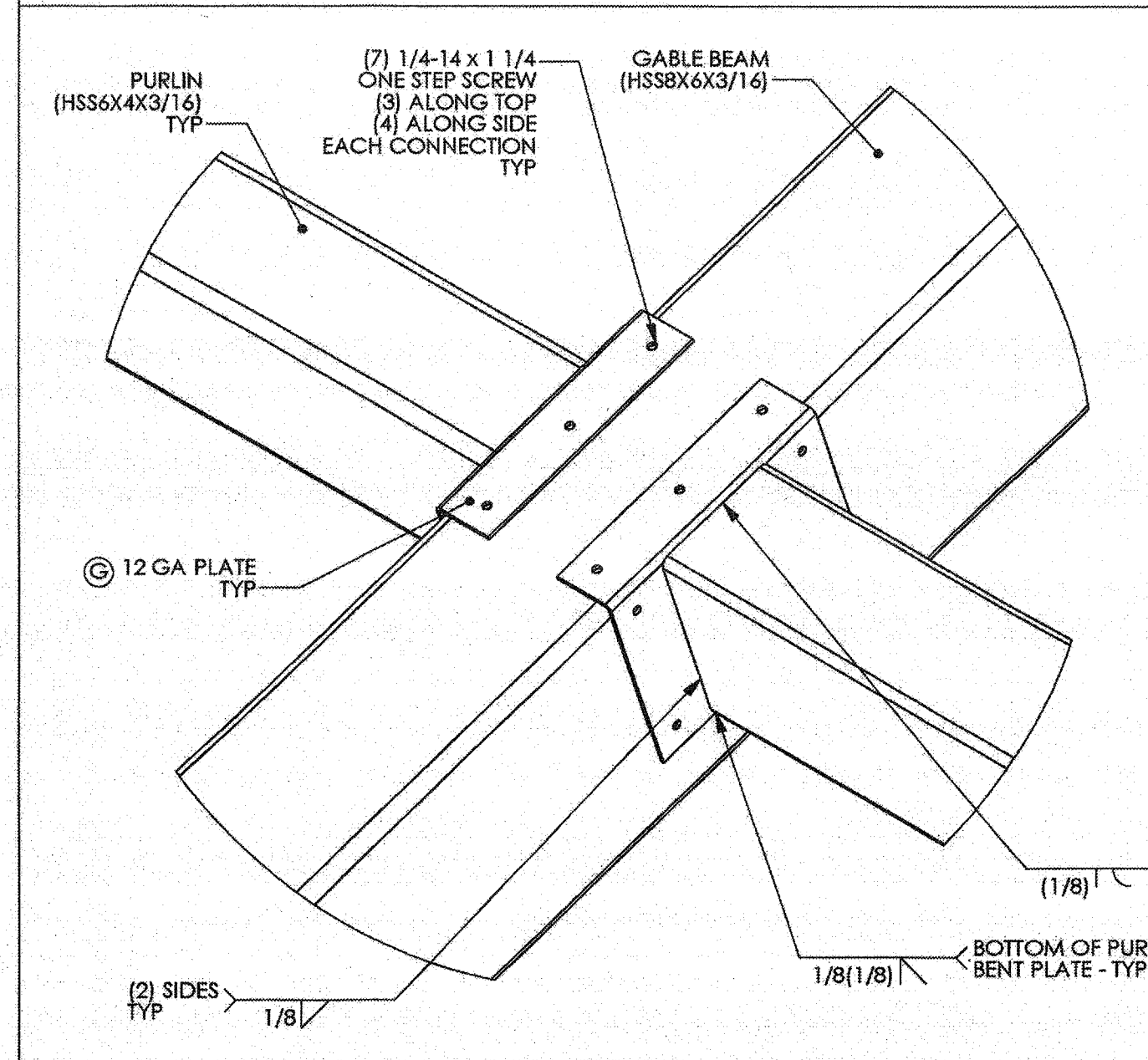
HIP BEAM CONNECTION @ COLUMN 2



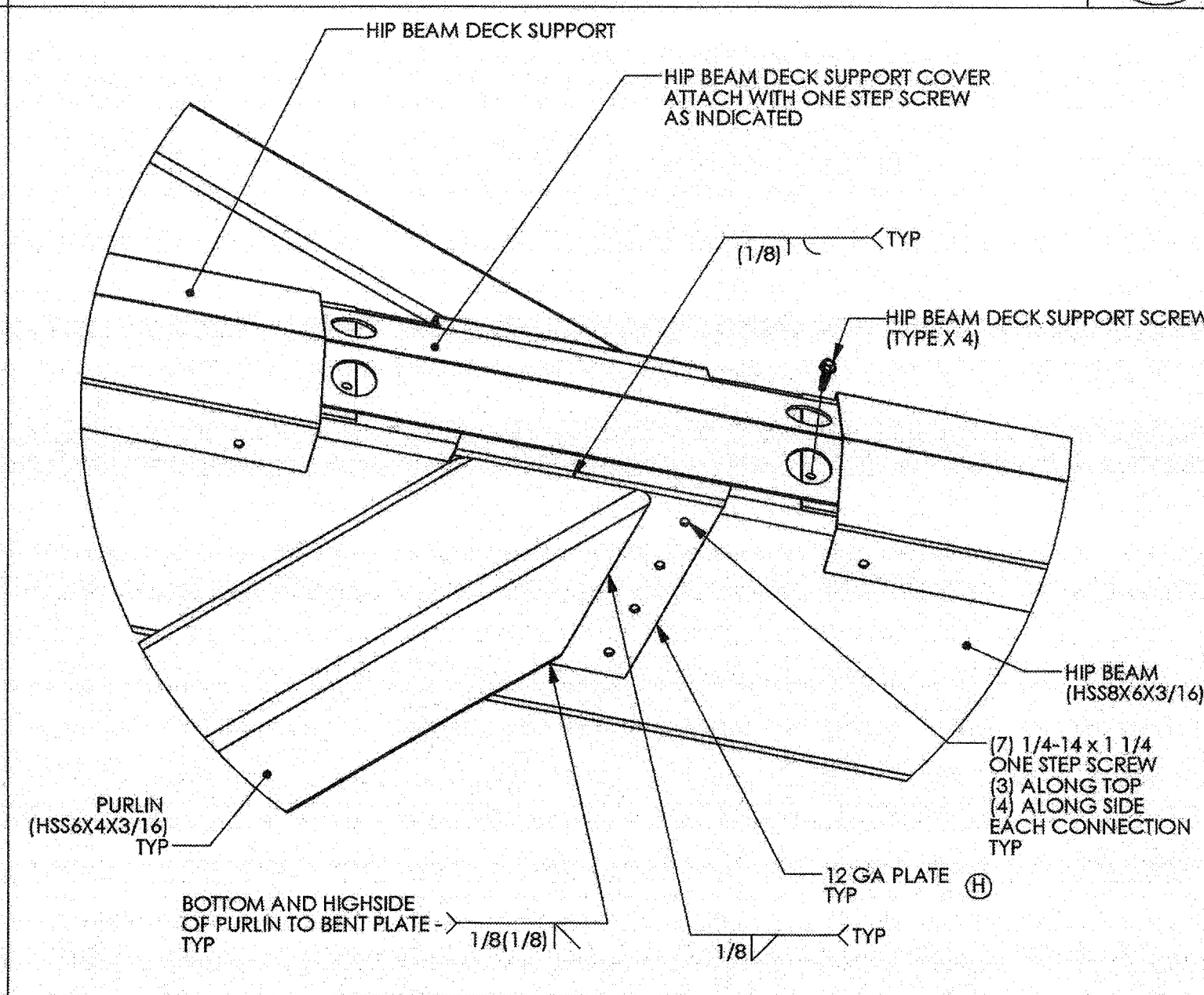
GABLE BEAM CONNECTION @ COLUMN 3



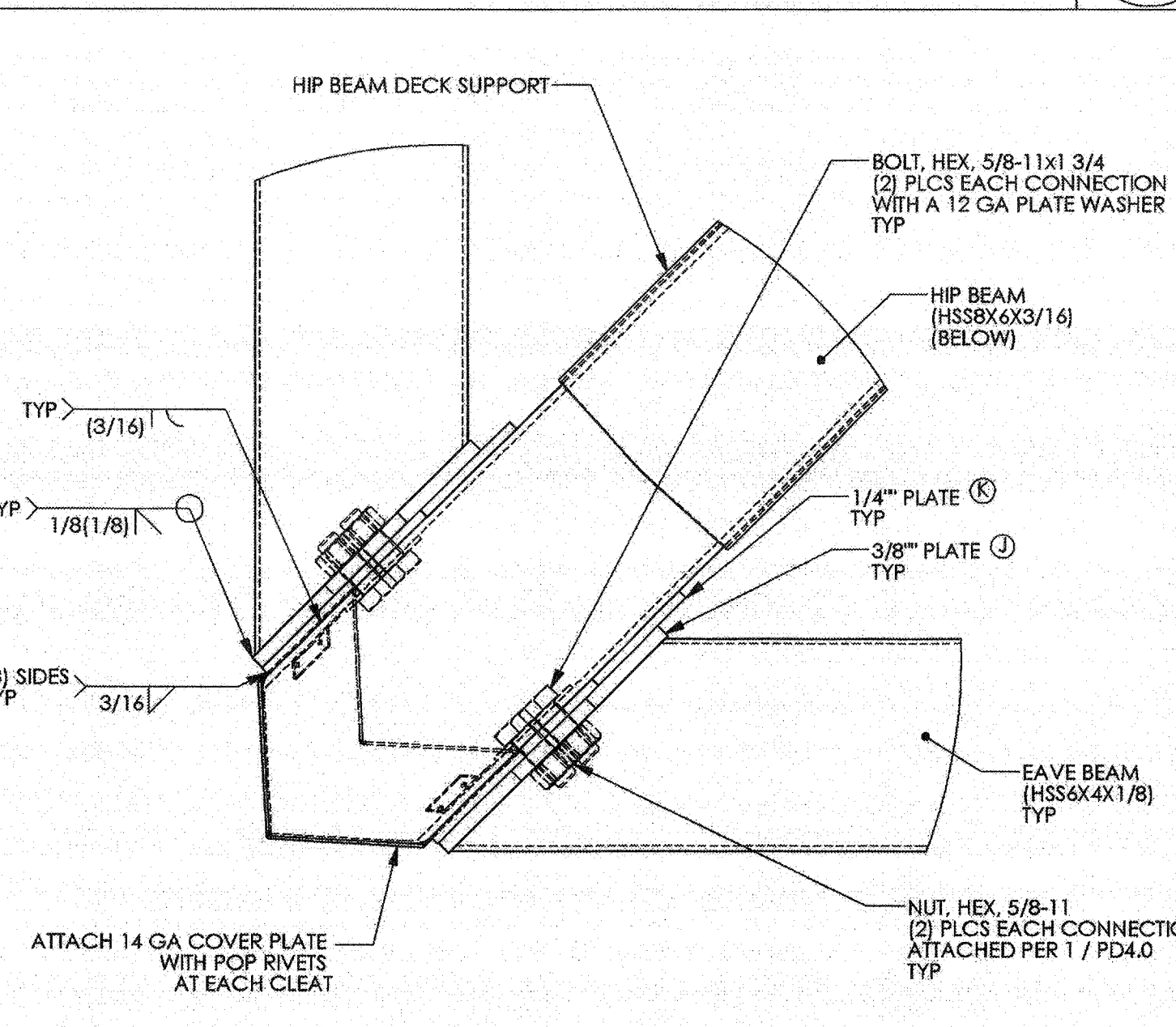
HIP BEAM CONNECTION @ COMPRESSION TUBE 4



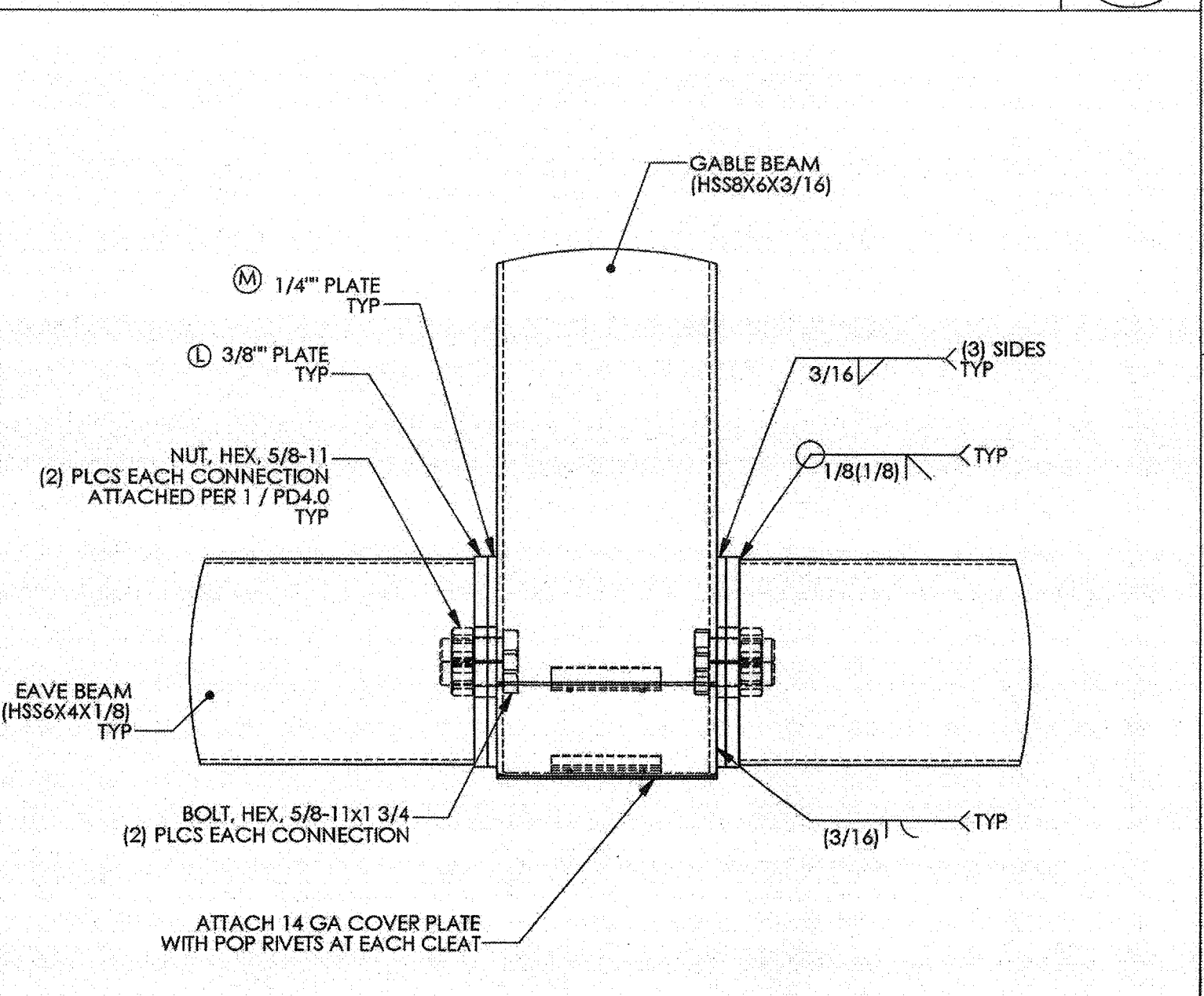
PURLIN CONNECTION @ GABLE BEAM 5



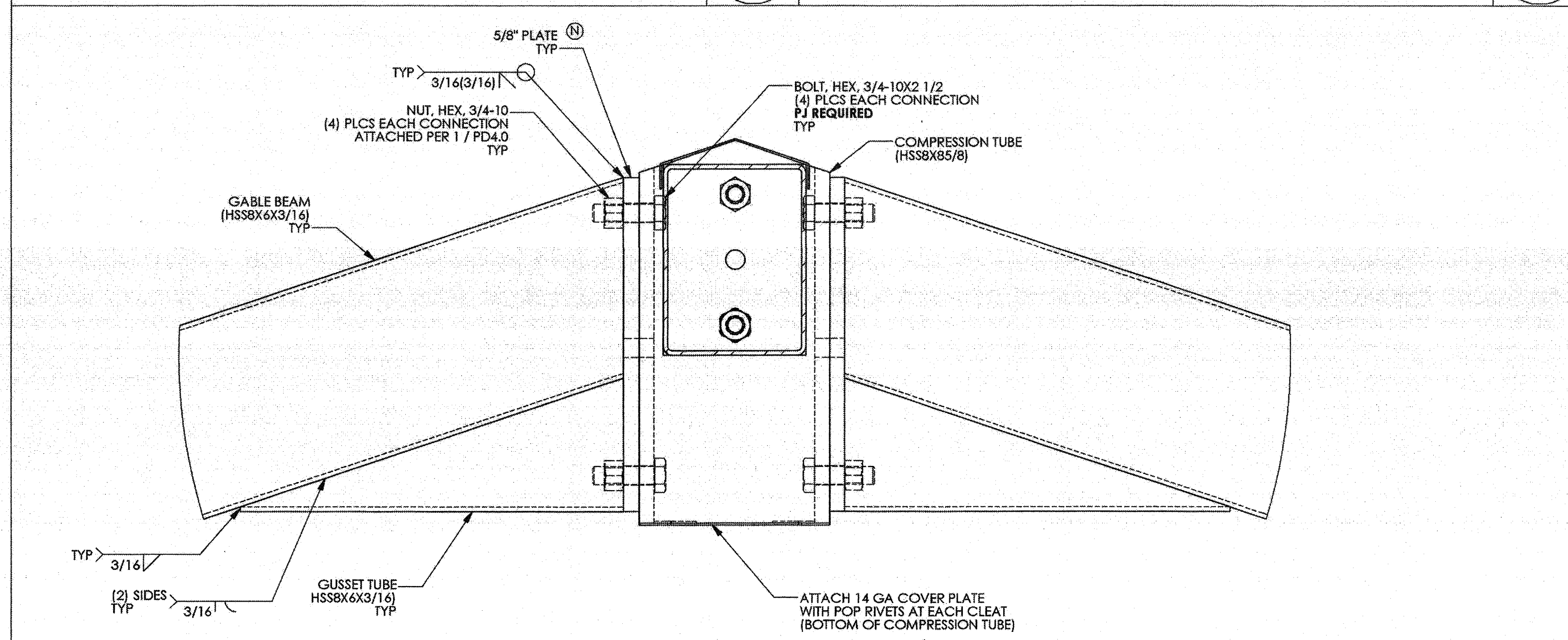
PURLIN CONNECTION @ HIP BEAM 6



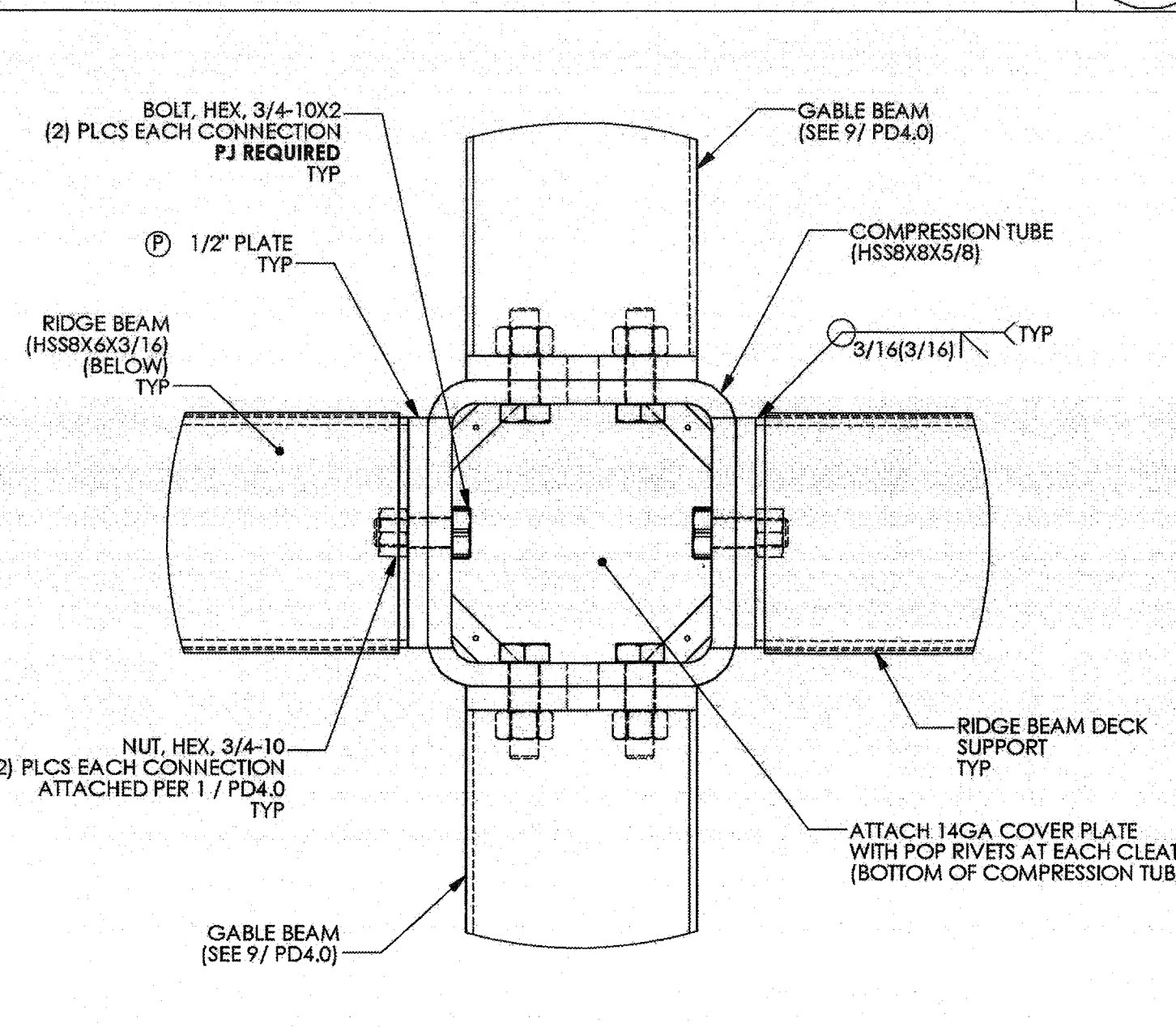
EAVE BEAM CONNECTION @ HIP BEAM 7



EAVE BEAM CONNECTION @ GABLE BEAM 8



GABLE BEAM CONNECTION @ COMPRESSION TUBE 9



RIDGE BEAM CONNECTION @ COMPRESSION TUBE 10

FRAME CONNECTION DETAIL NOTES:

- SEE SECTIONS ON SHEET PD5.0.
- SEE PLATE (C) DETAILS ON SHEET PD6.0 AND PD6.1
- COVER ACCESS HOLES WITH GRACE ICE AND WATER SHIELD BEFORE ATTACHING ROOF DECK.

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 Date: APR 29 2016

REGISTERED PROFESSIONAL ENGINEER
 POLYGON ENGINEERING, INC.
 No. 54378
 Exp. 3/31/16
 STRUCTURAL
 STATE OF CALIFORNIA

poligon
 ENGINEERING, INC.

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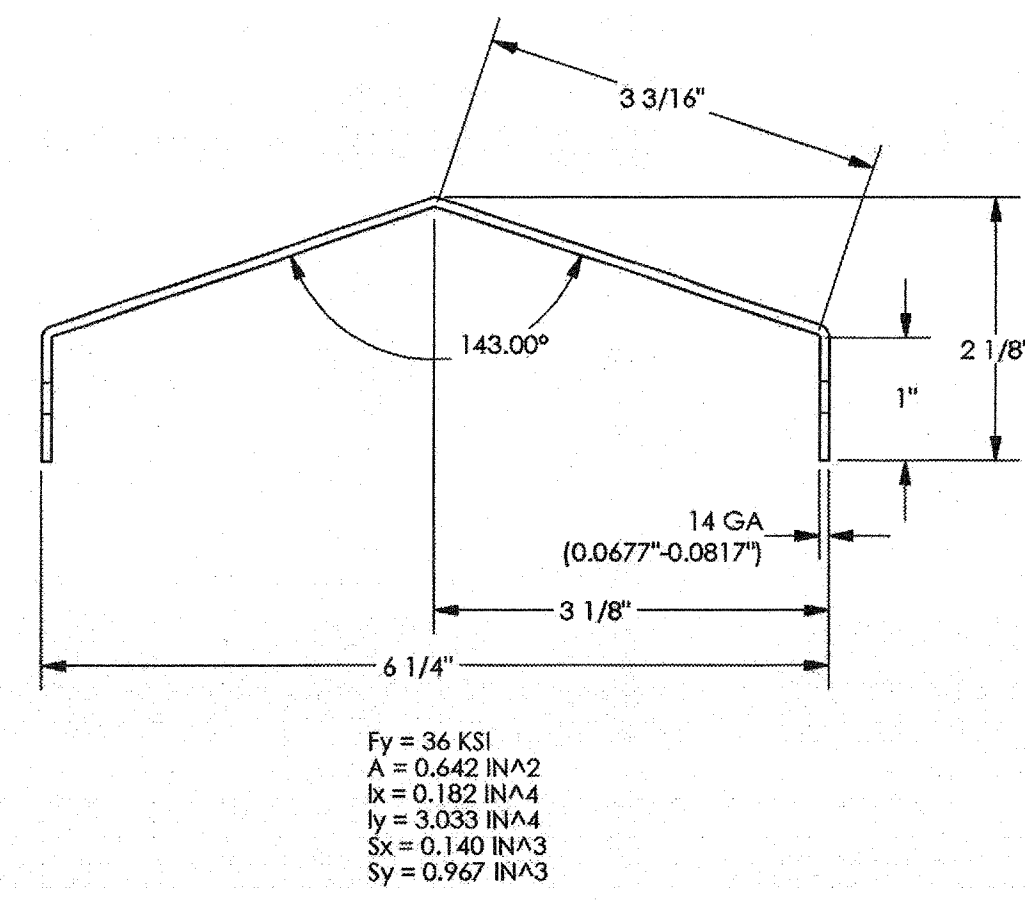
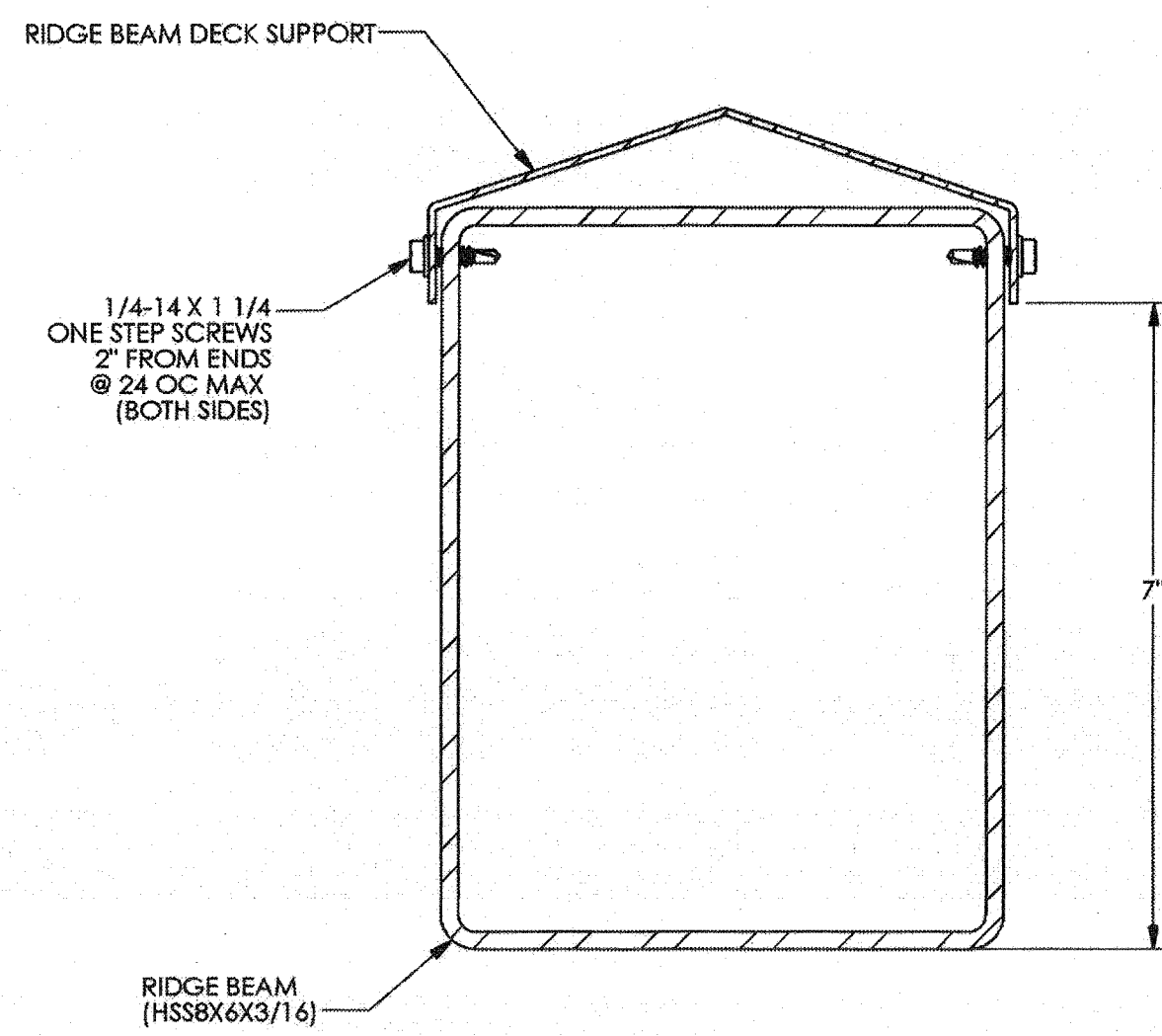
PRE-CHECK (PC) DOCUMENT
 CODE: 2013 CBC
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

FRAME CONNECTION DETAILS
 RAM 20
 HIP ROOF (RAM)
 PC DRAWINGS

DRAWN BY: JMD
 CHECKED BY: CE
 POLYGON # 21488

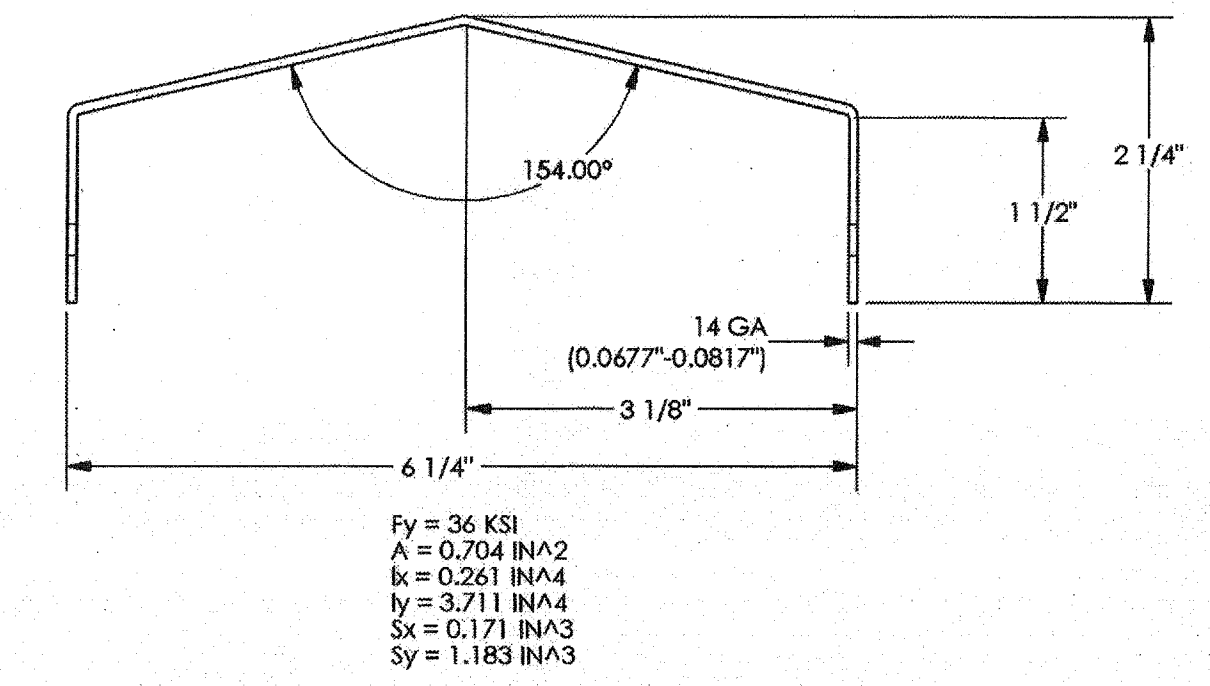
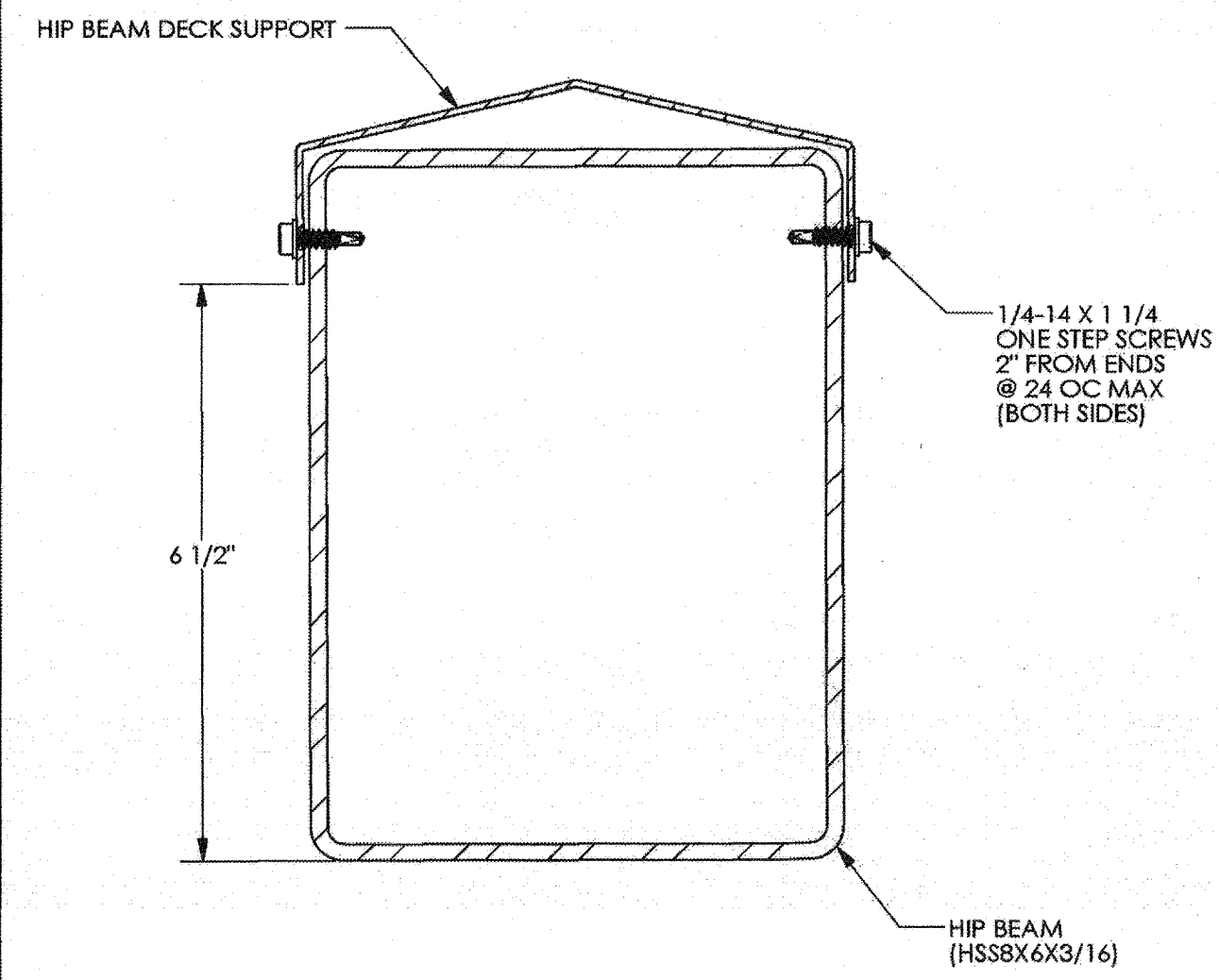
PD4.0

2014A



RIDGE BEAM DECK SUPPORT

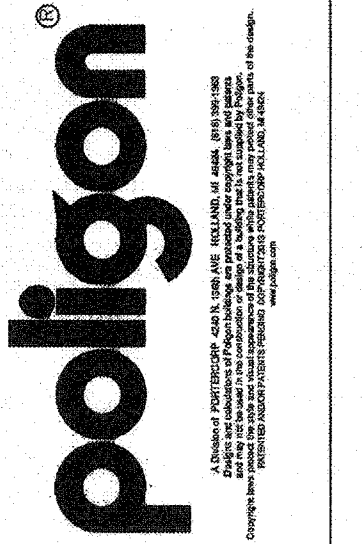
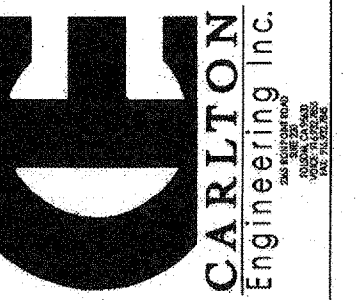
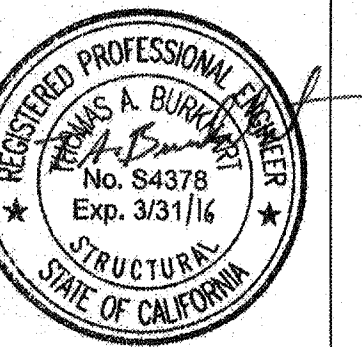
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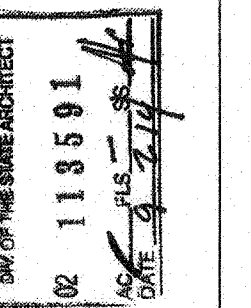
HIP BEAM DECK SUPPORT

B

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PRE-CHECK (PC) DOCUMENT

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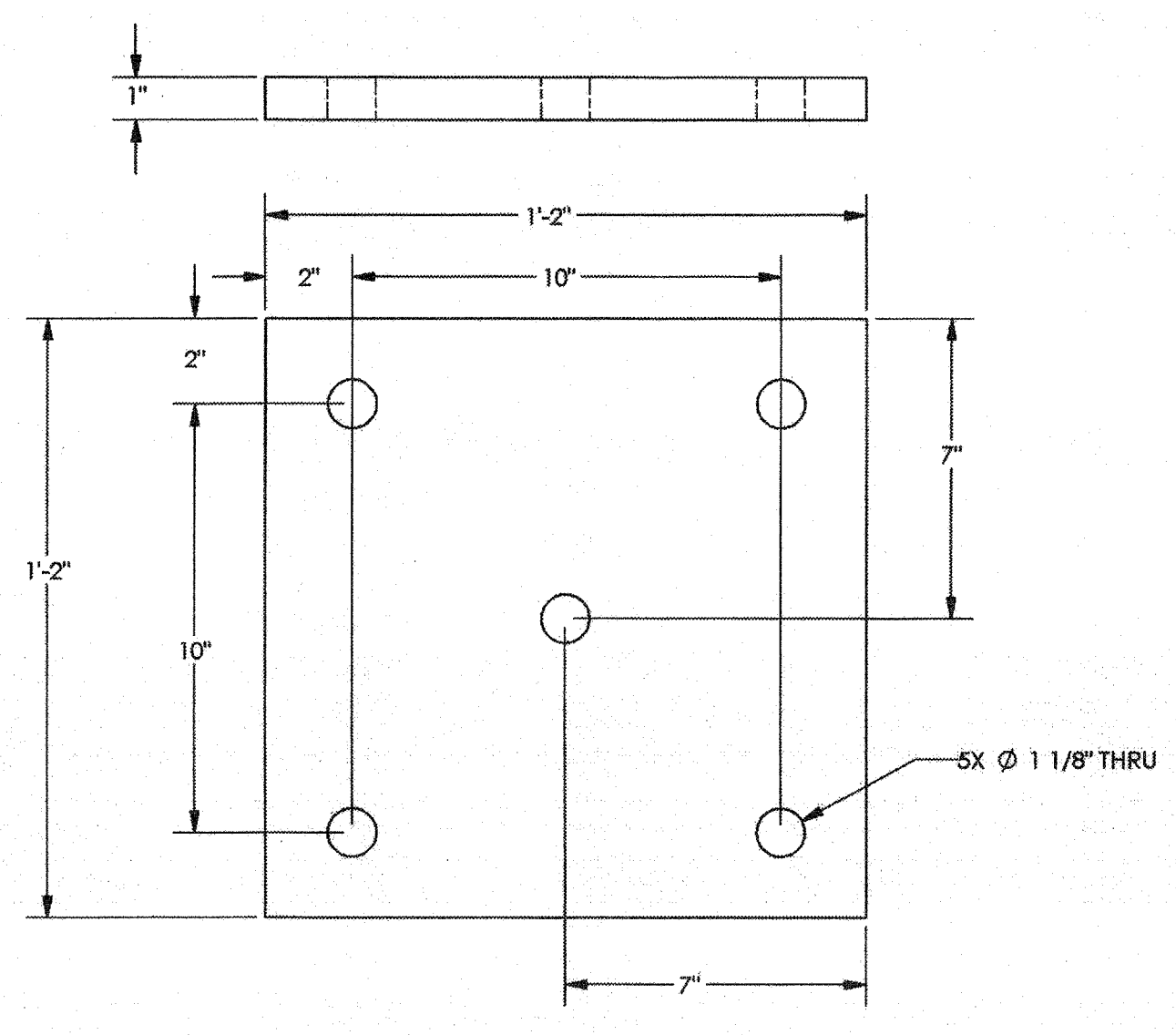
SECTION DETAILS
RAM.20

HIP ROOF (RAM)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLYGON #: 51658

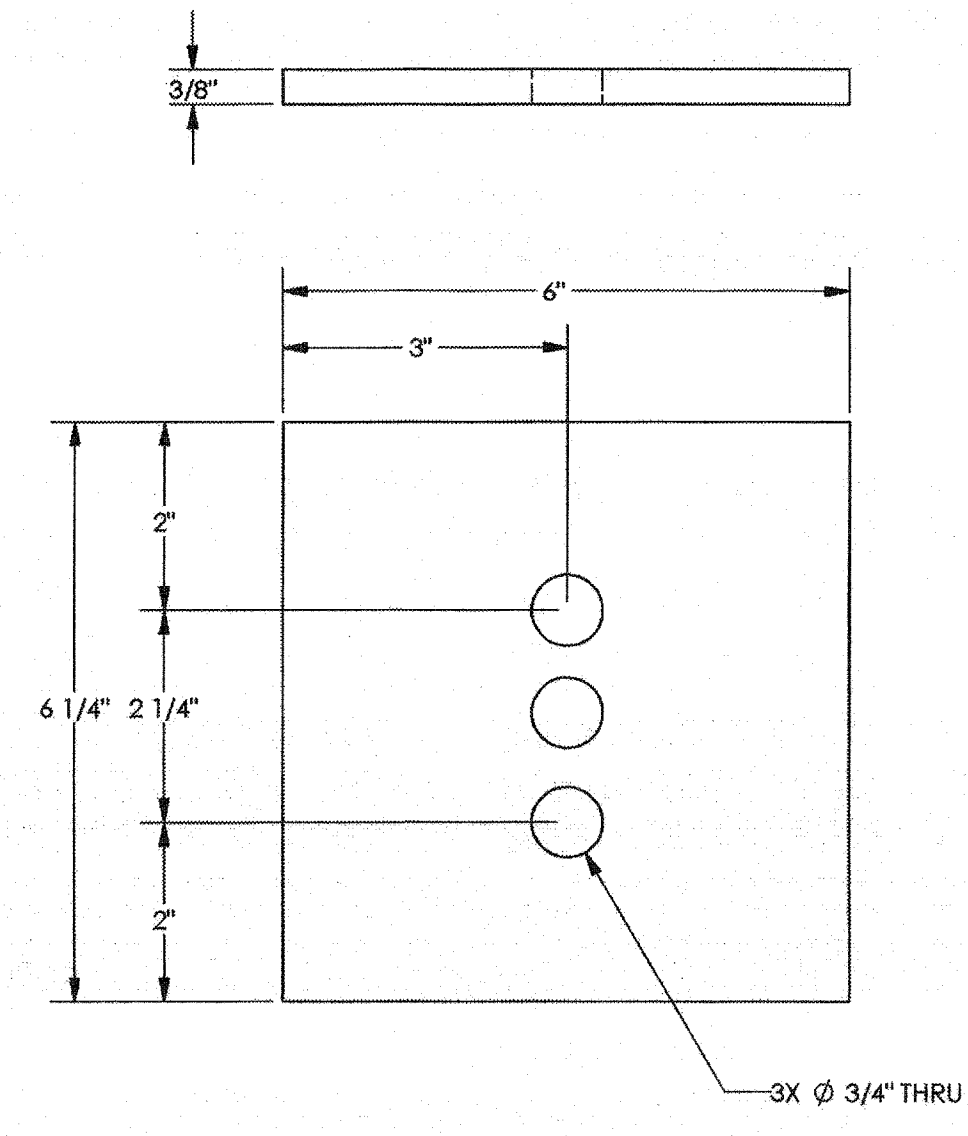
PD5.0

2014A



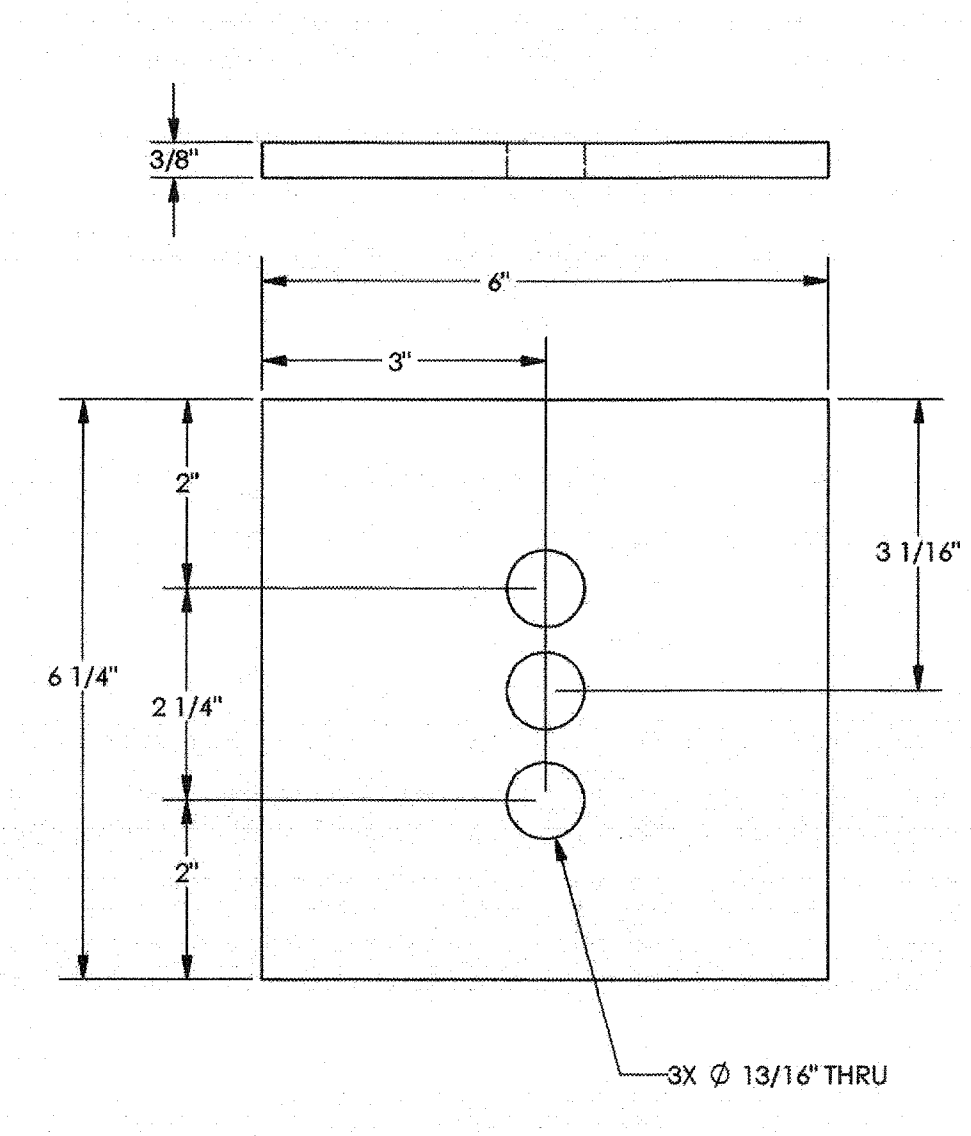
PLATE

A



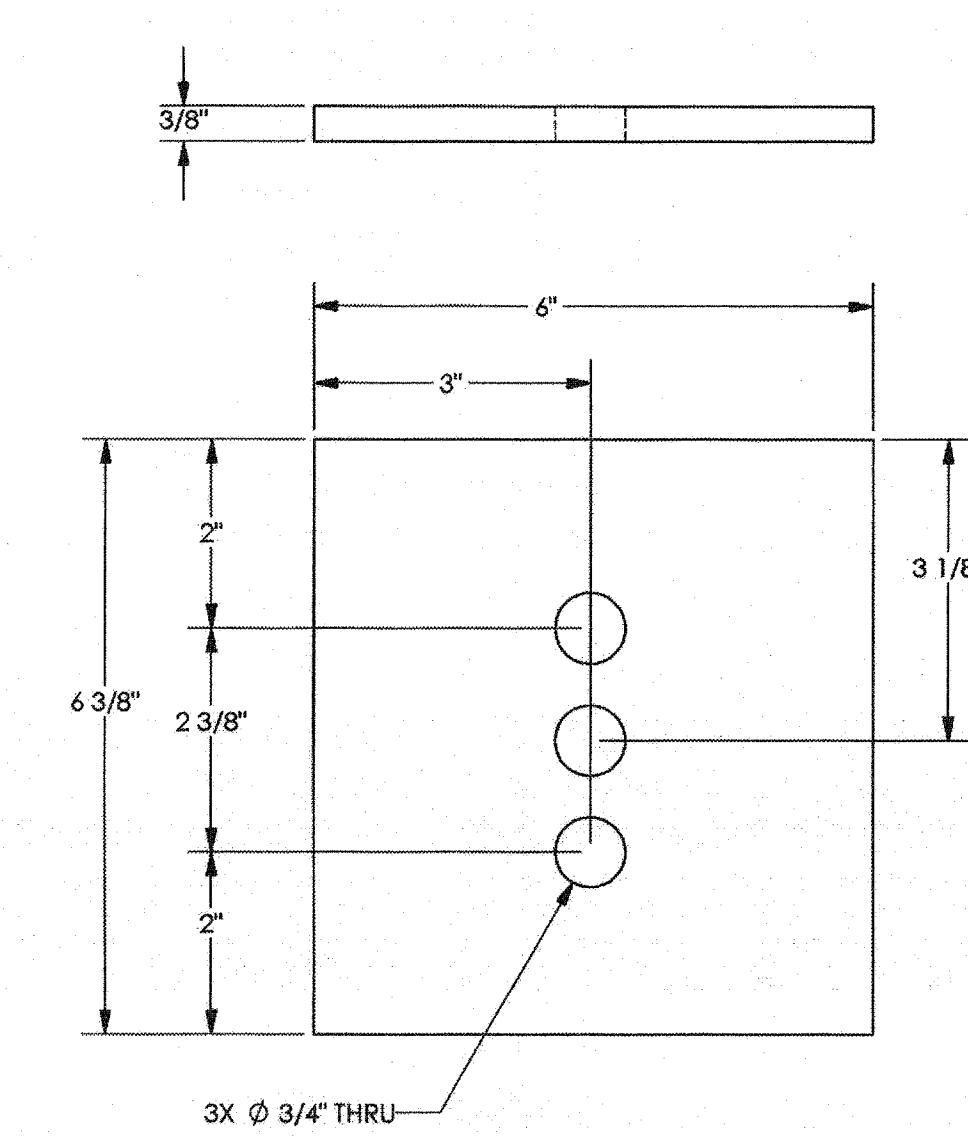
PLATE

B



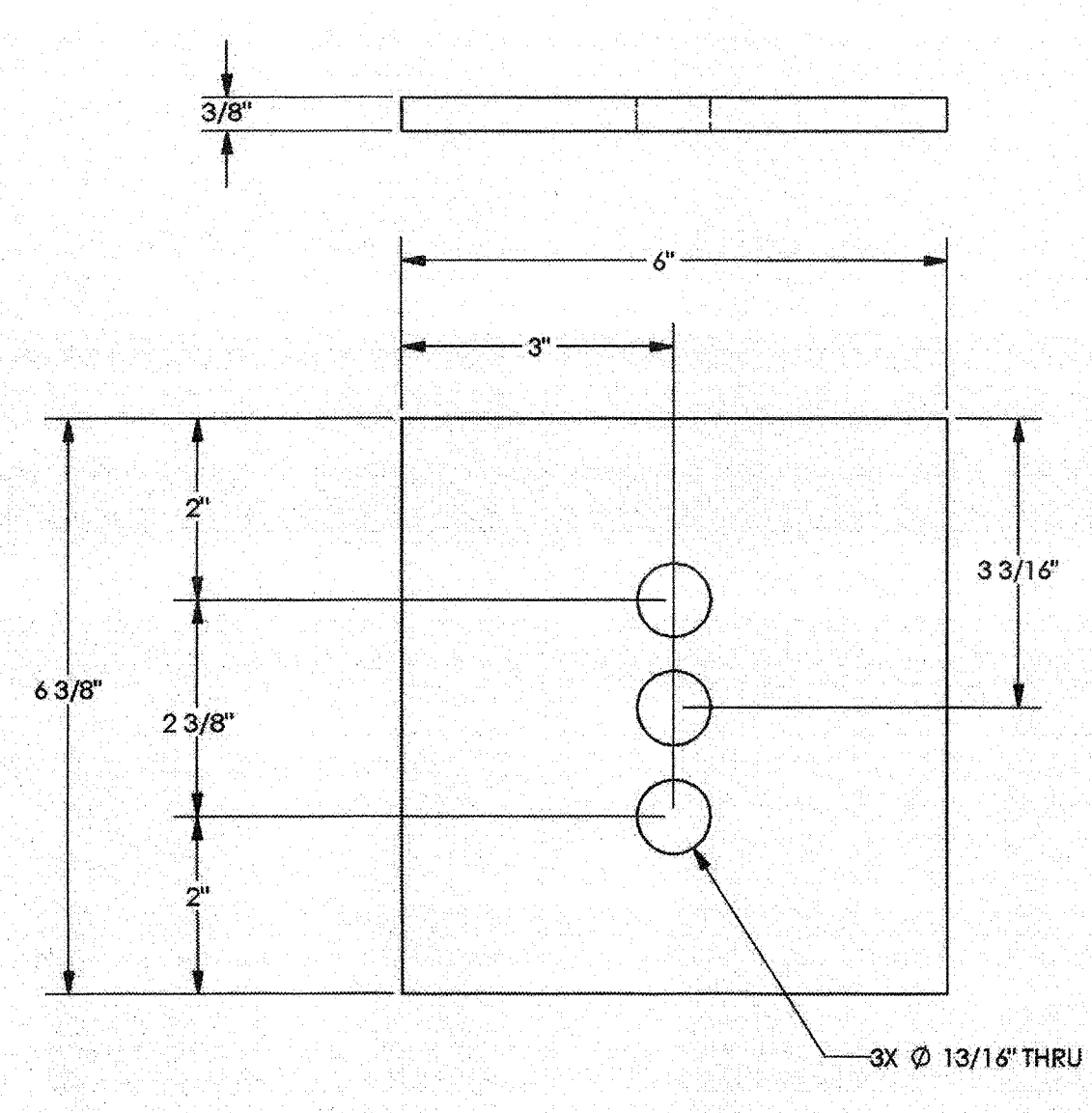
PLATE

C



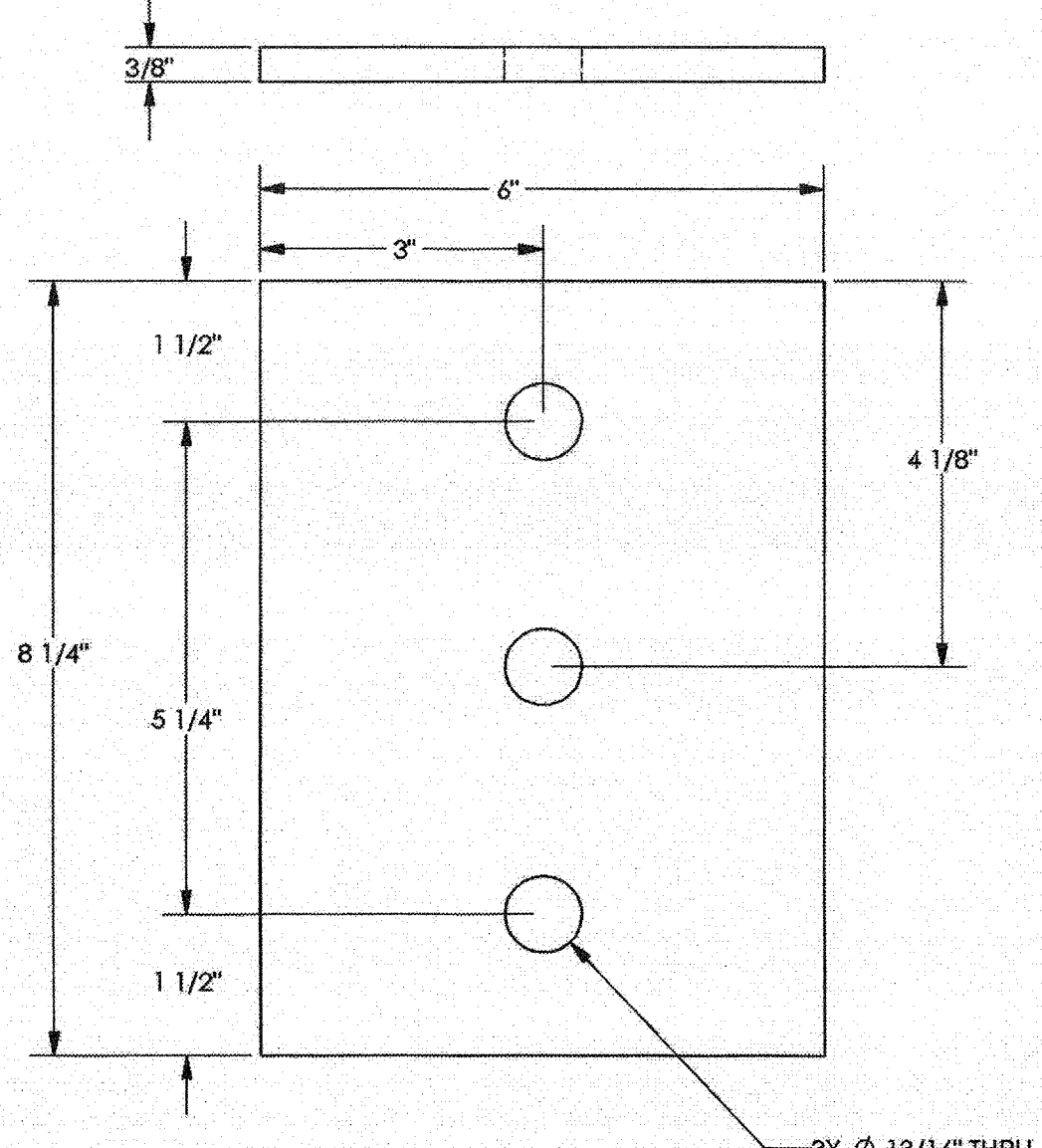
PLATE

D



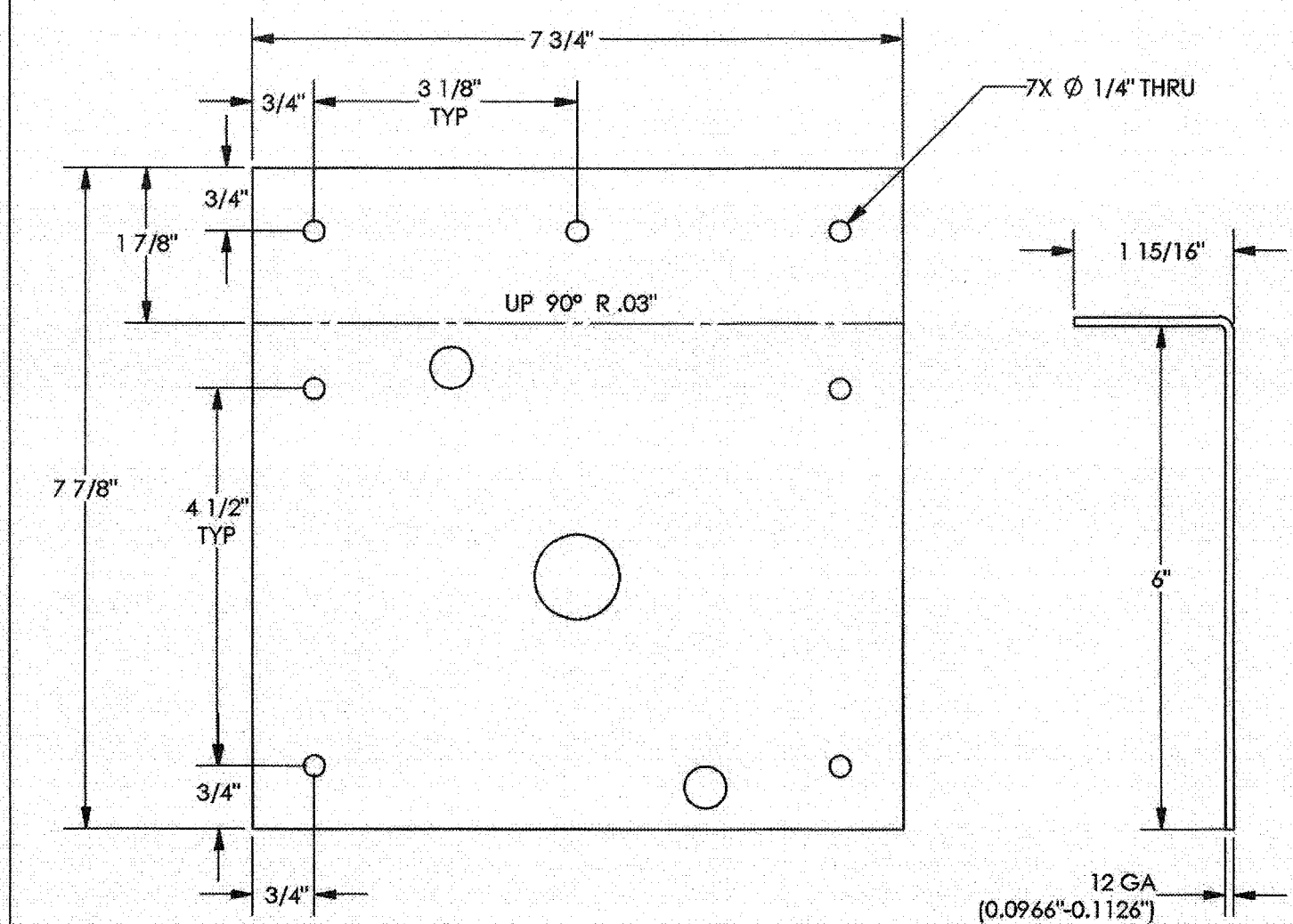
PLATE

E



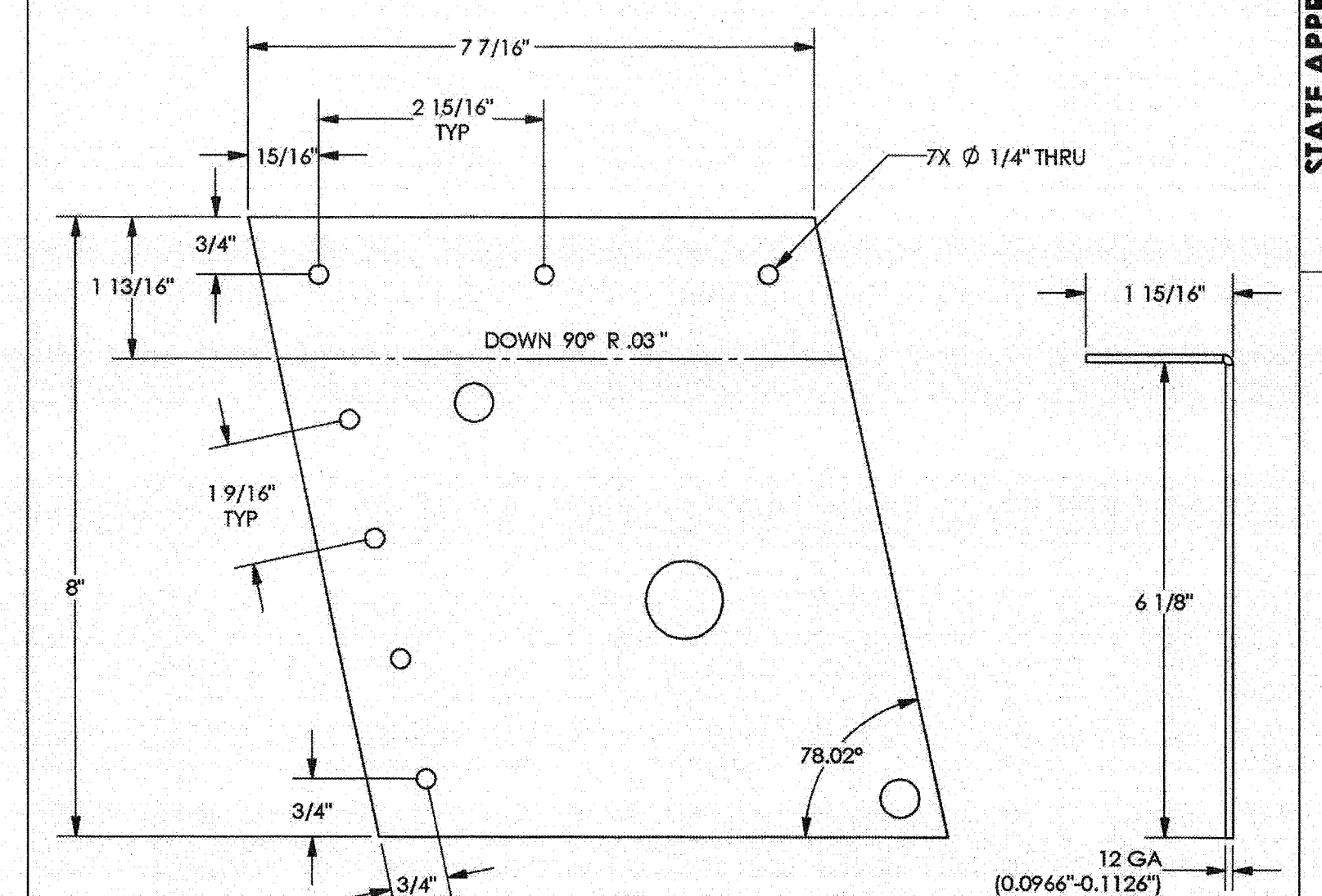
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F



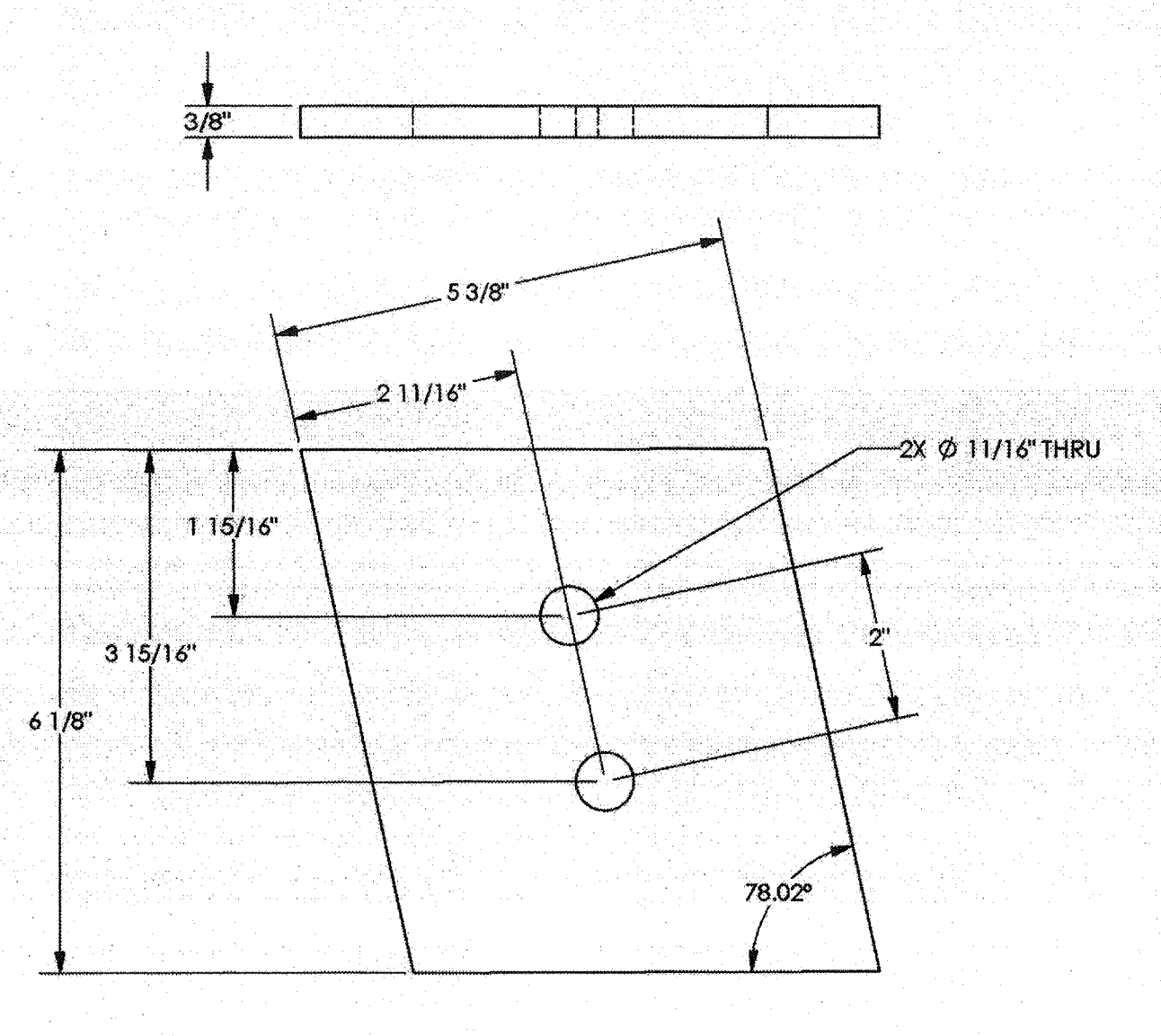
PLATE

G



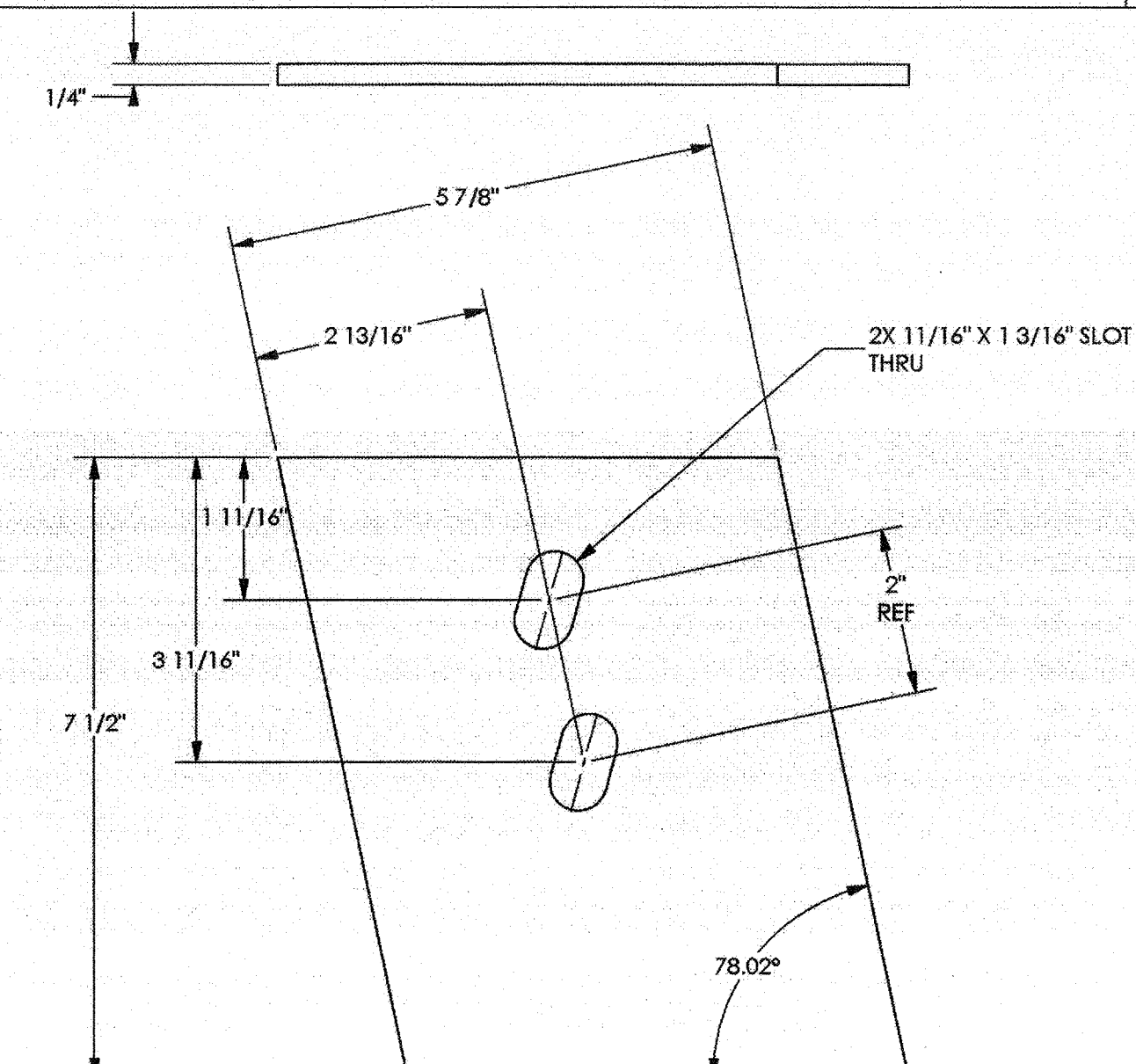
PLATE

H



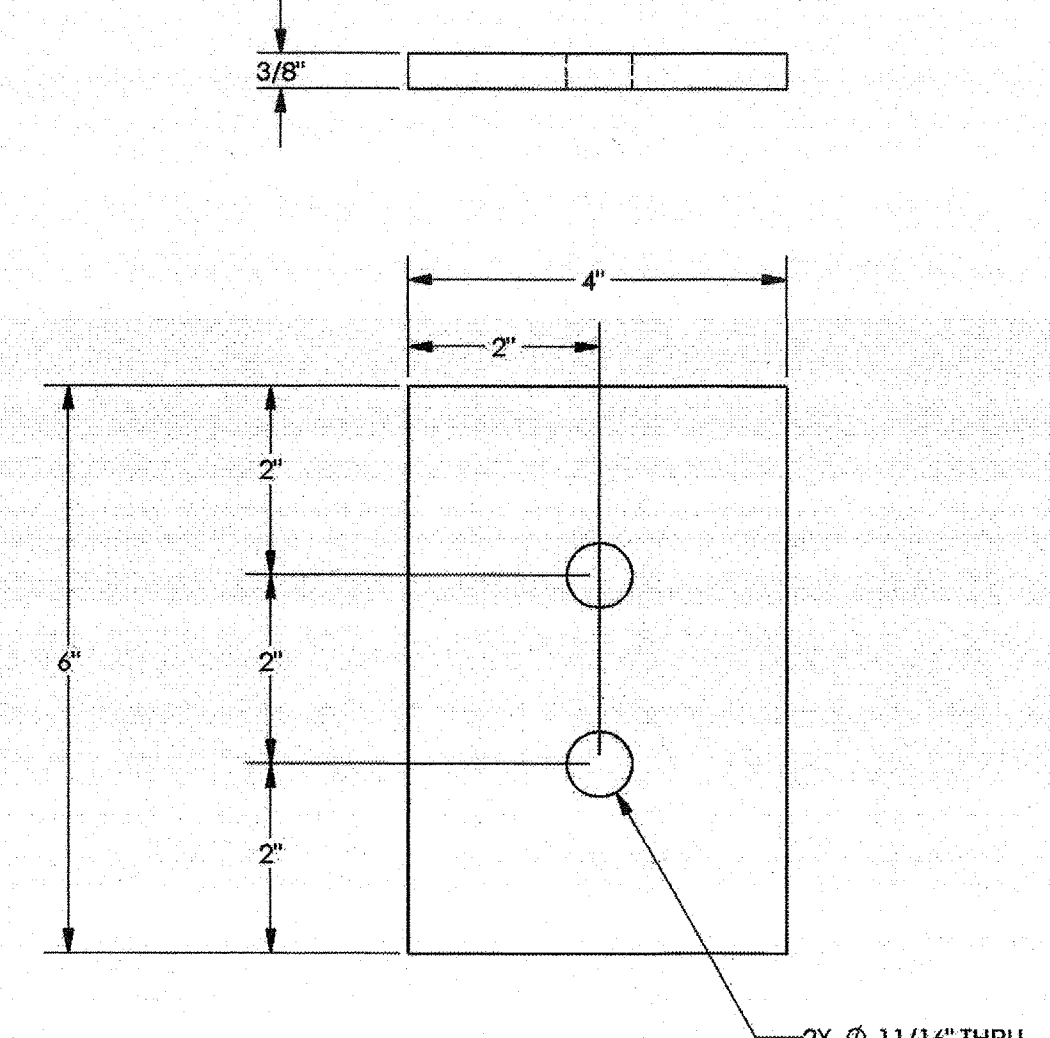
PLATE

J



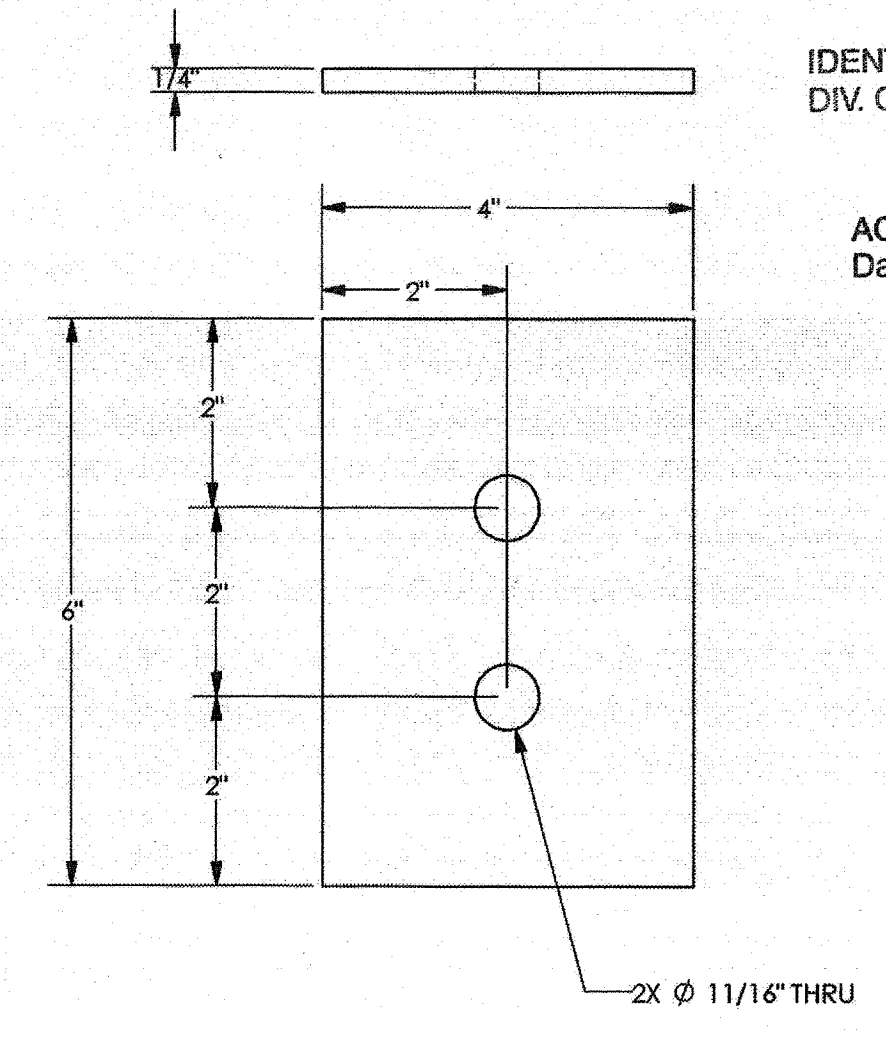
PLATE

K



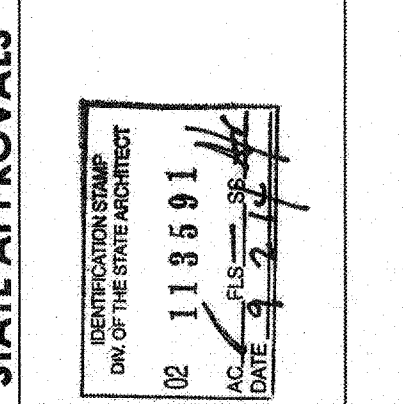
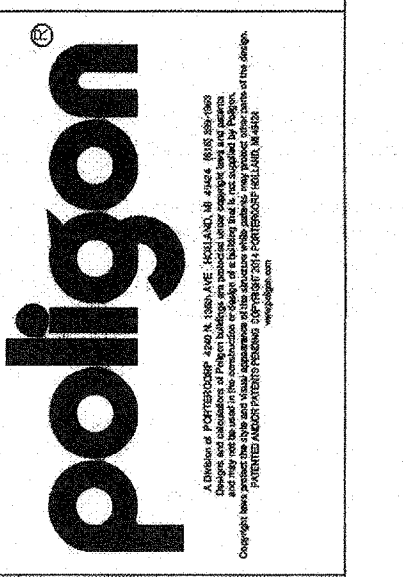
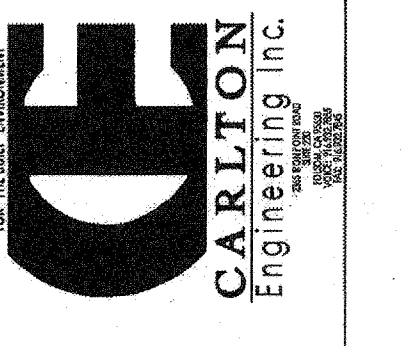
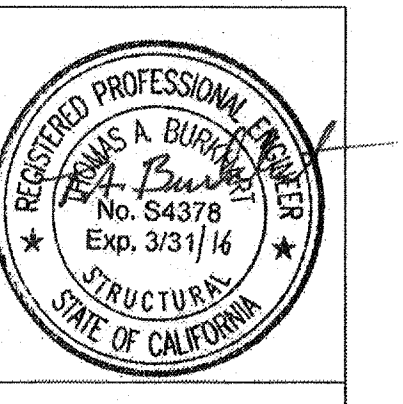
PLATE

L



PLATE

M



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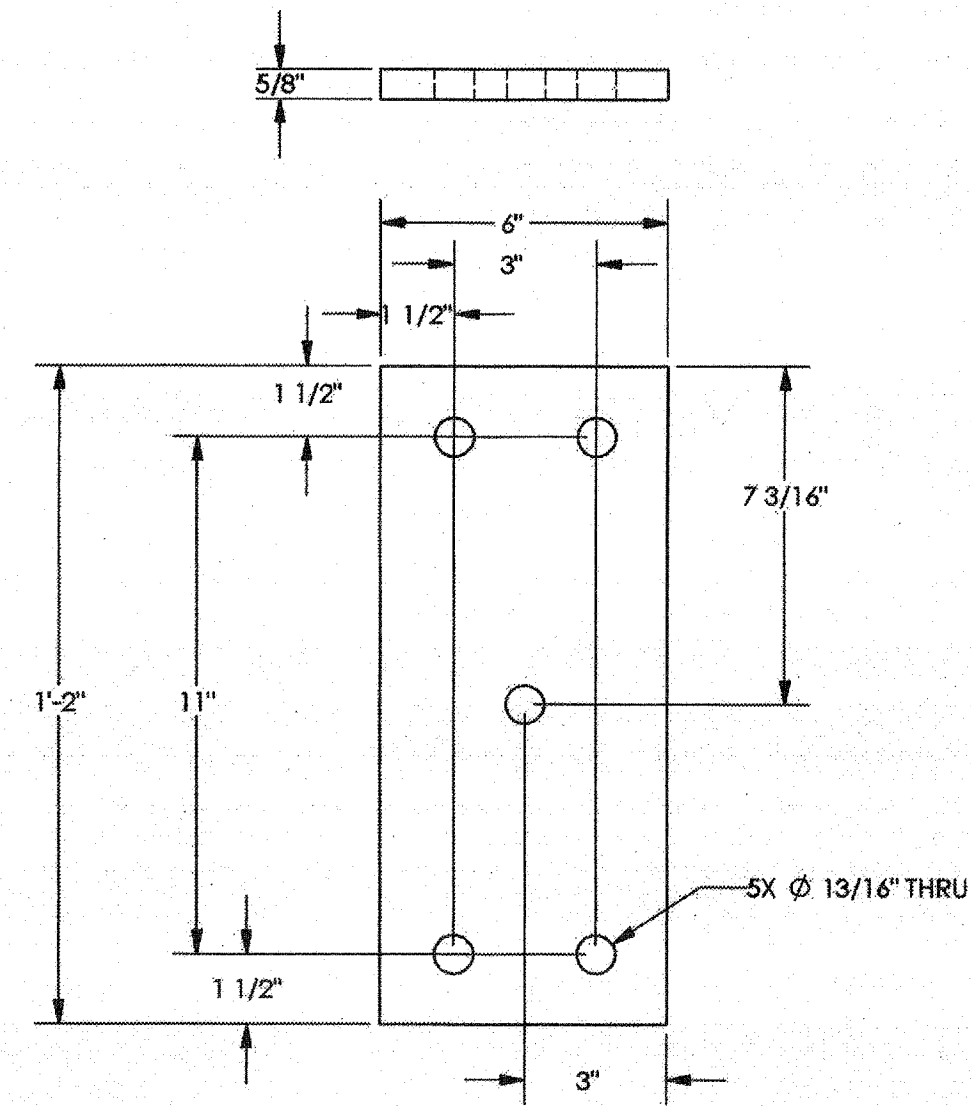
PLATE DETAILS
 RAM 20
 HIP ROOF (RAM)
 PC DRAWINGS

DRAWN BY: JMD
 CHECKED BY: CE
 POLYGON #: 51458

PD6.0

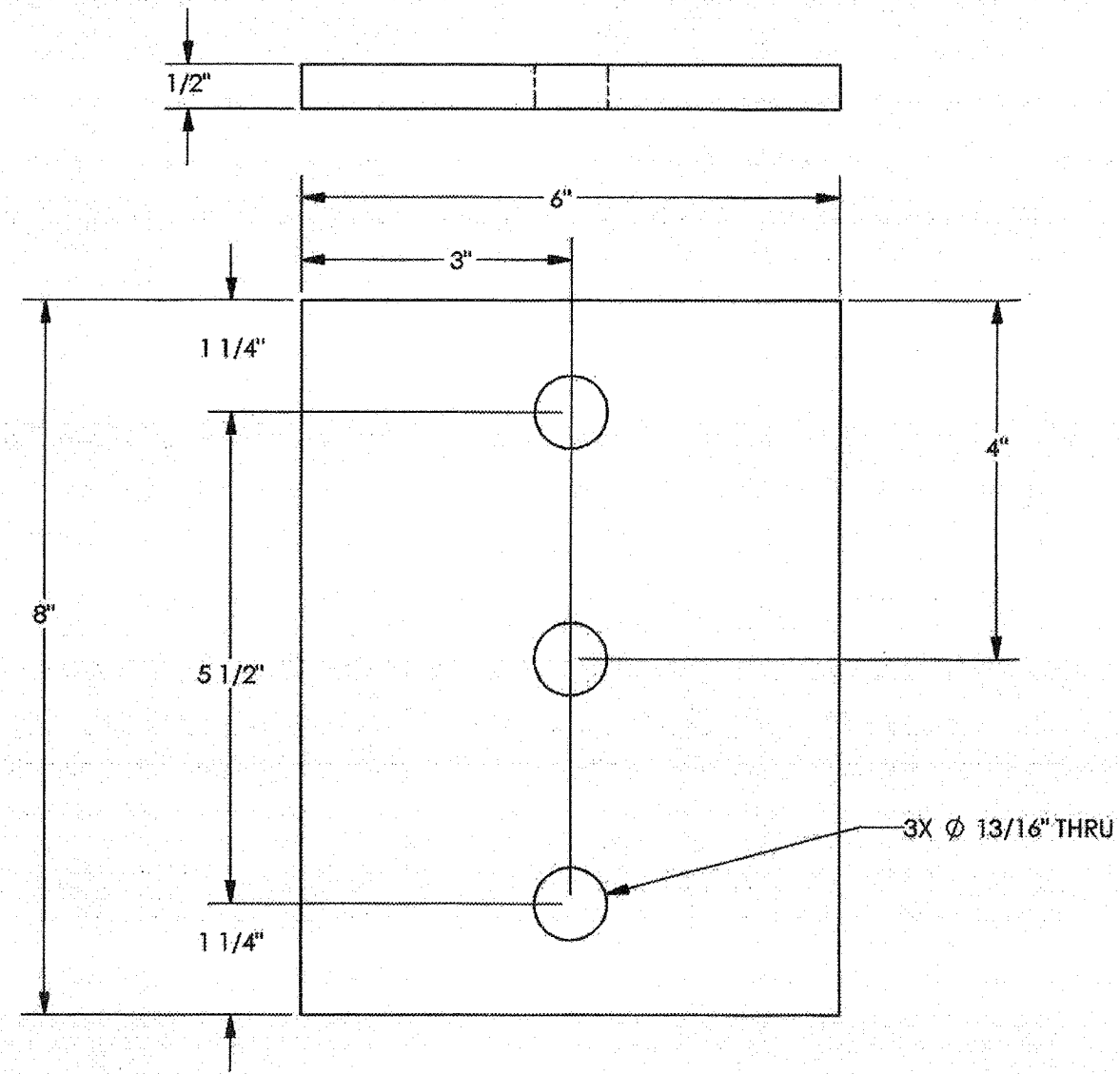
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 AC FLS ✓ SS PC
 Date APR 29 2016

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PLATE

N

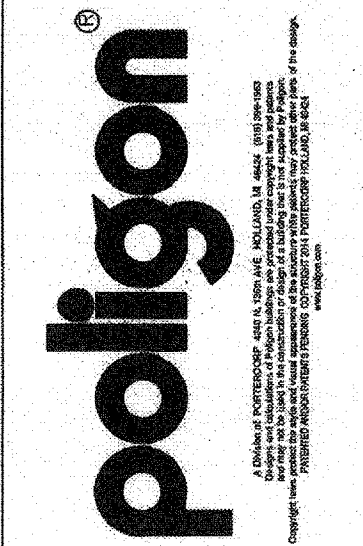
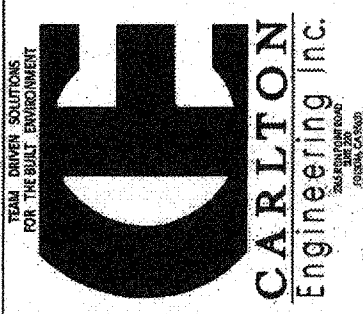
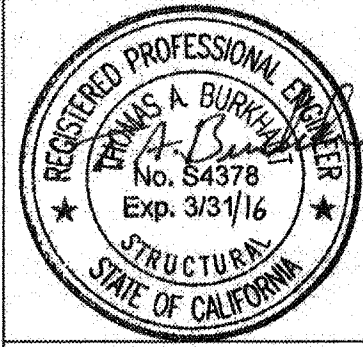
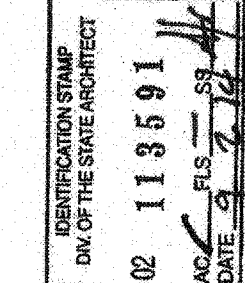


PLATE

P

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STATE APPROVALS



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PLATE DETAILS

RAM 20

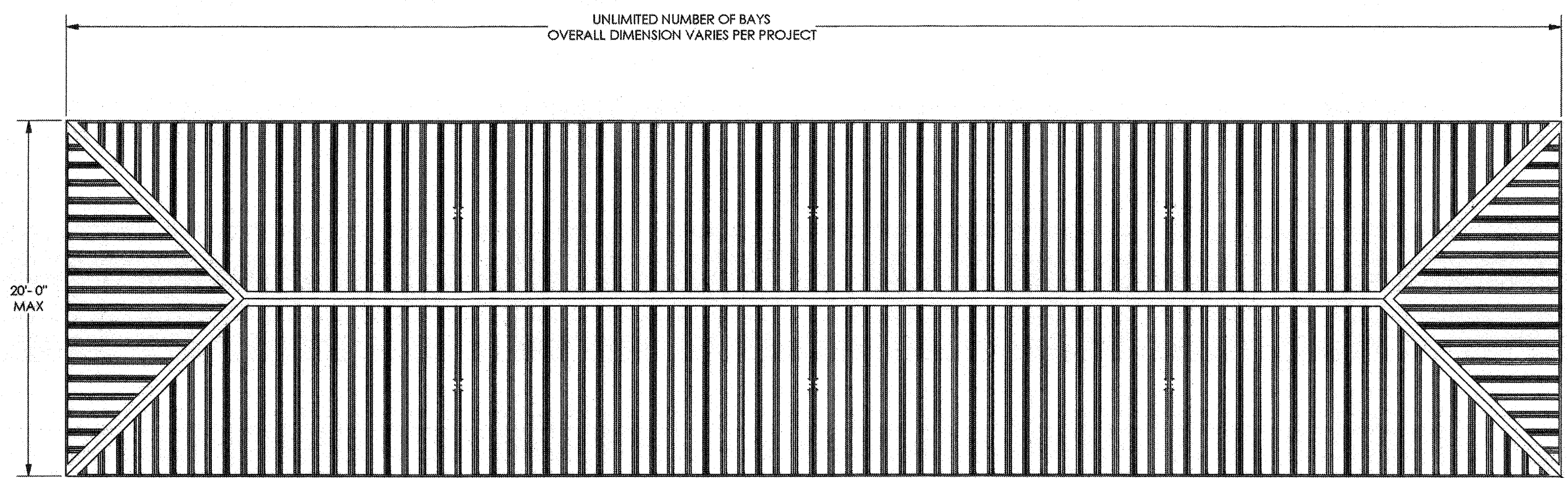
HIP ROOF (RAM)

P.C. DRAWINGS

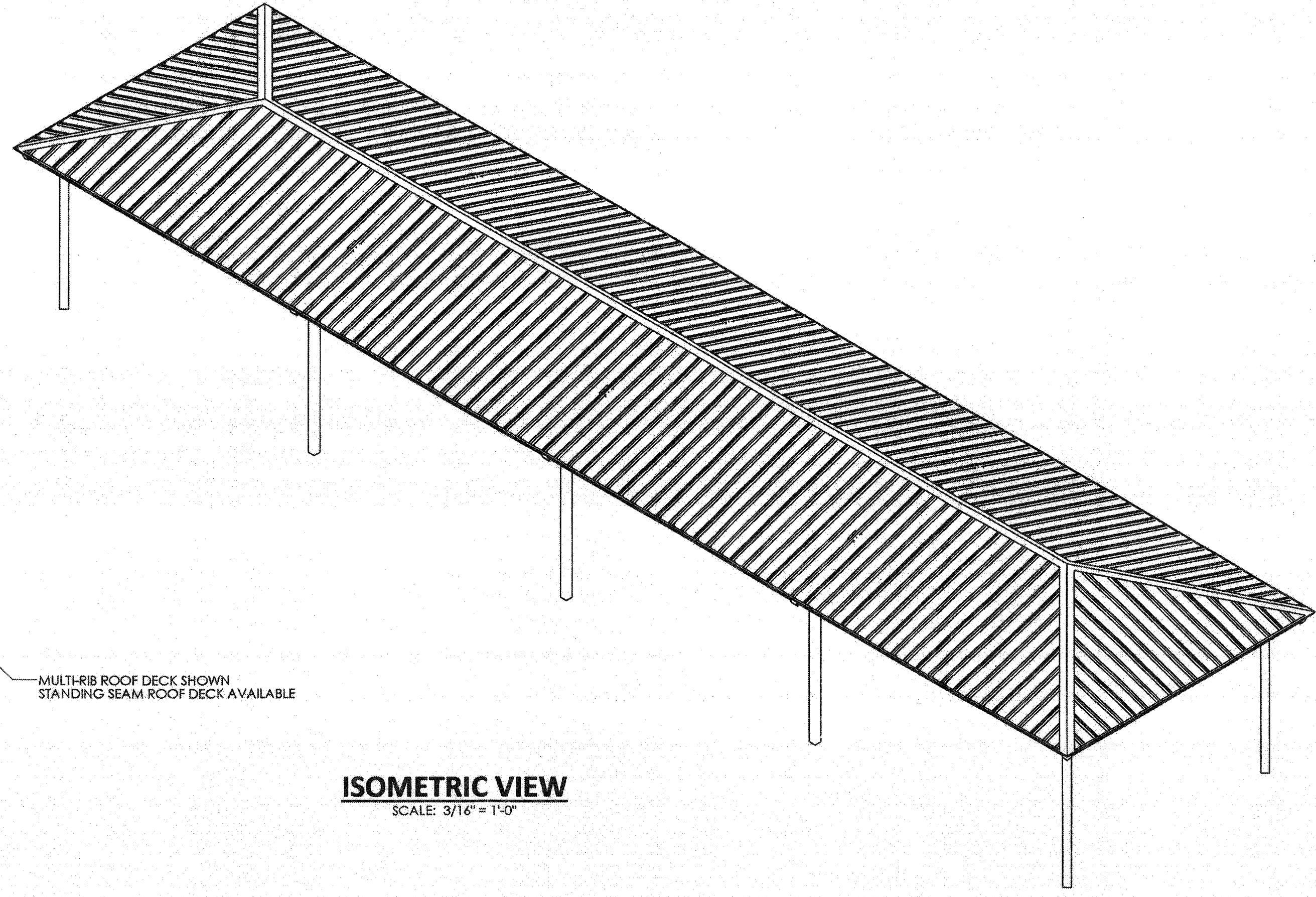
DRAWN BY: MJD
 CHECKED BY: CE
 POLYGON #: 51458

PD6.1

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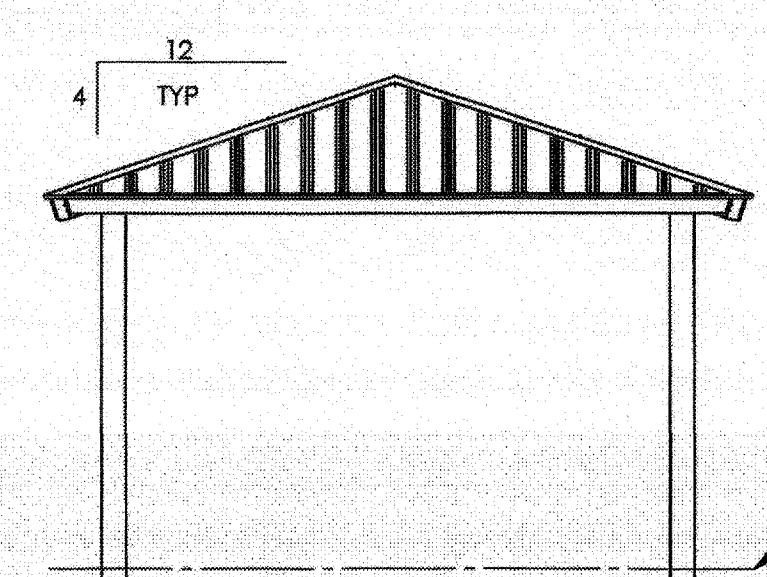
PLAN VIEW
SCALE: 3/16" = 1'-0"



ISOMETRIC VIEW
SCALE: 3/16" = 1'-0"

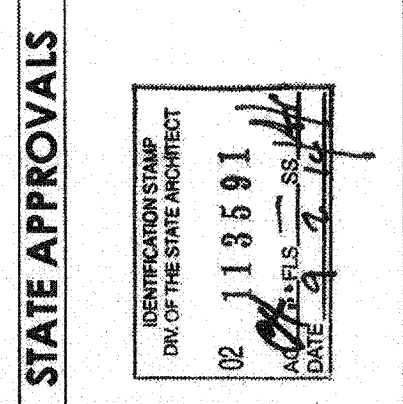
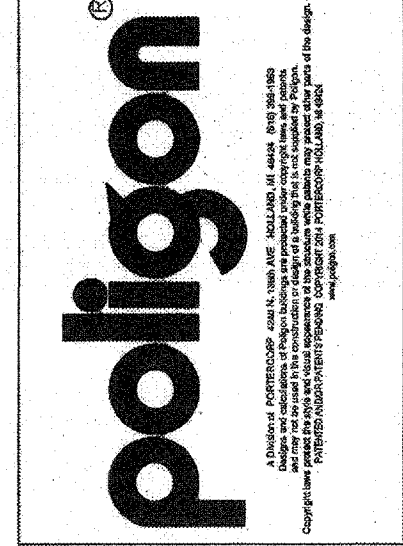
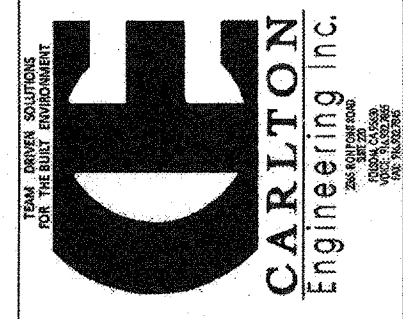
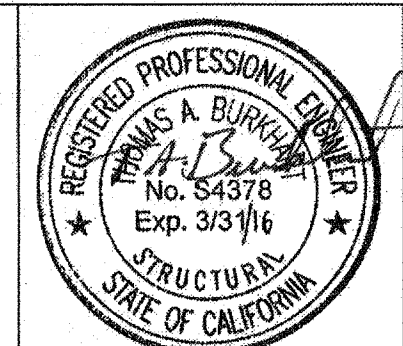


FRONT ELEVATION
SCALE: 3/16" = 1'-0"



SIDE ELEVATION
SCALE: 3/16" = 1'-0"

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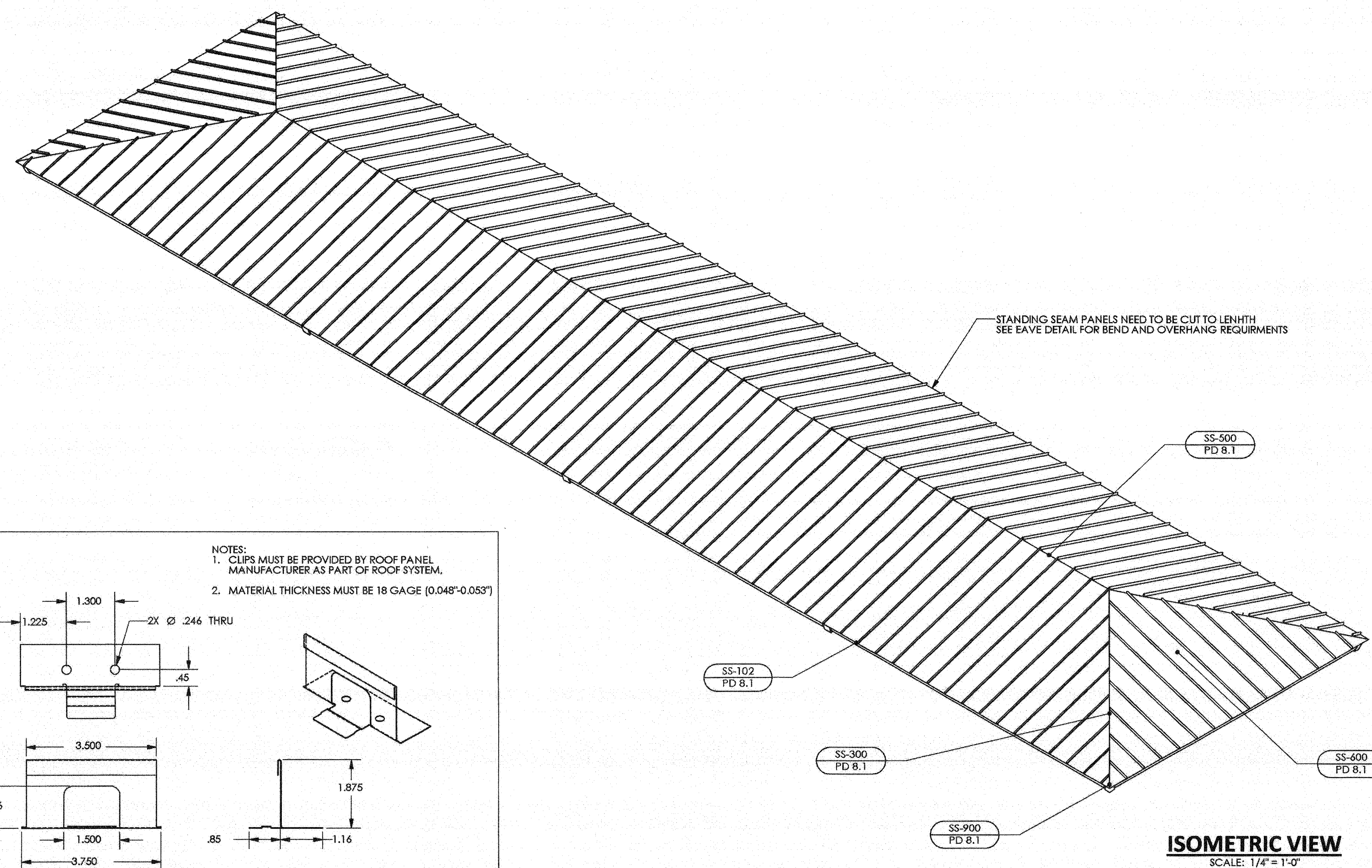
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ARCHITECTURAL VIEWS
RAM 20
HIP ROOF (RAM)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLYGON #: 51488

PD7.0

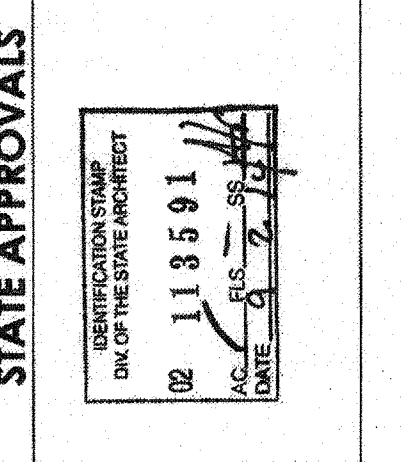
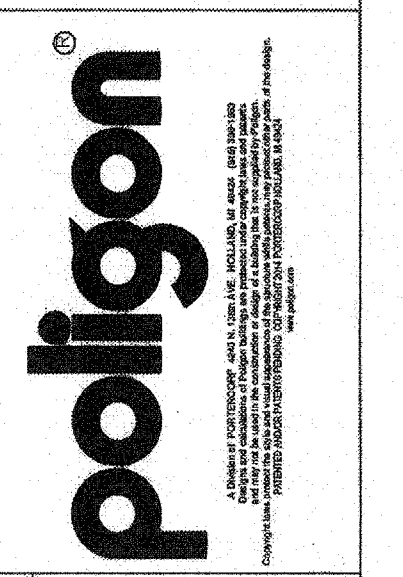
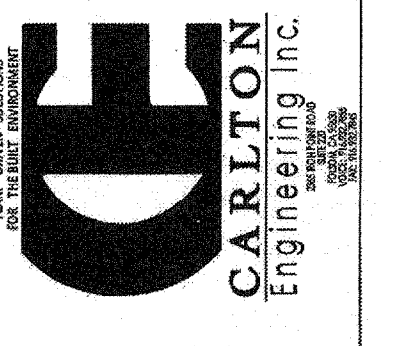
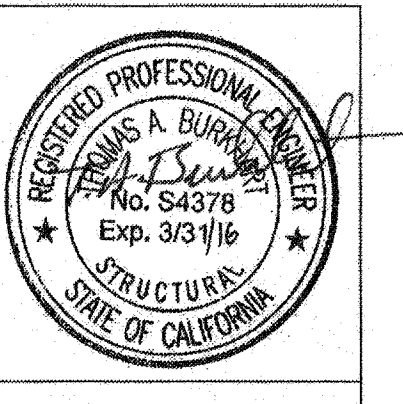
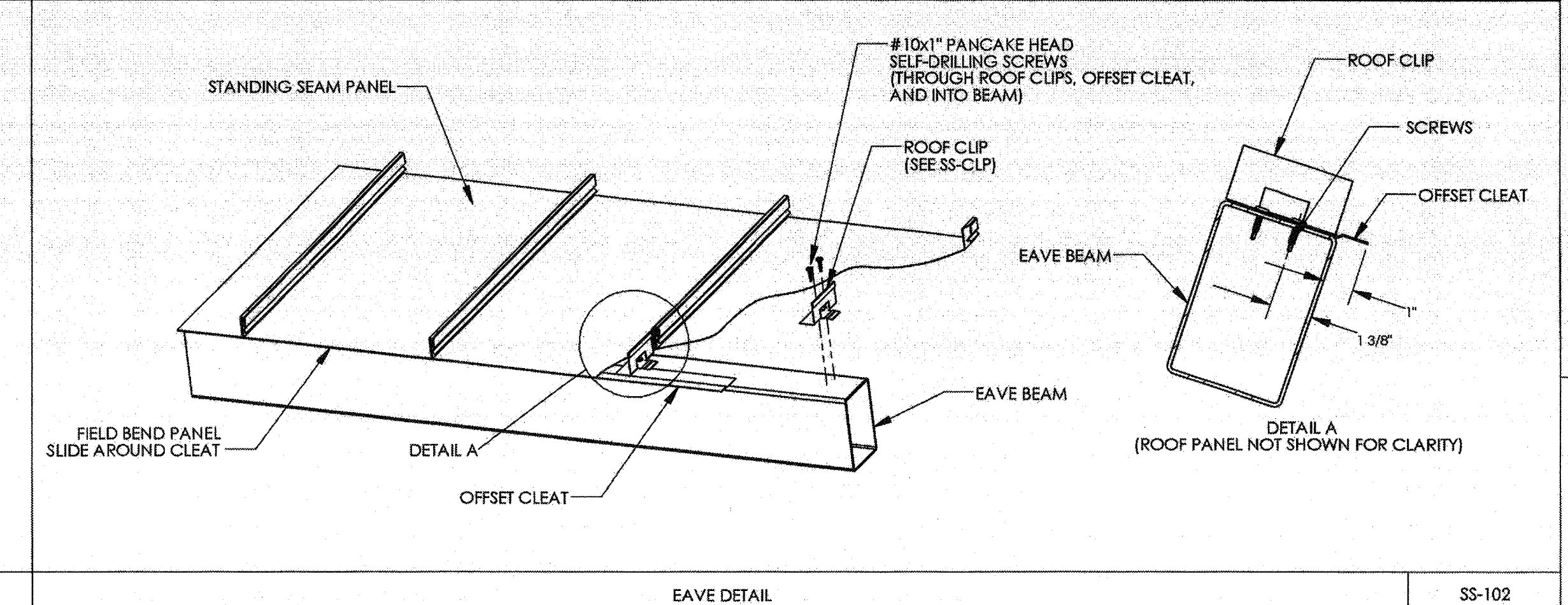
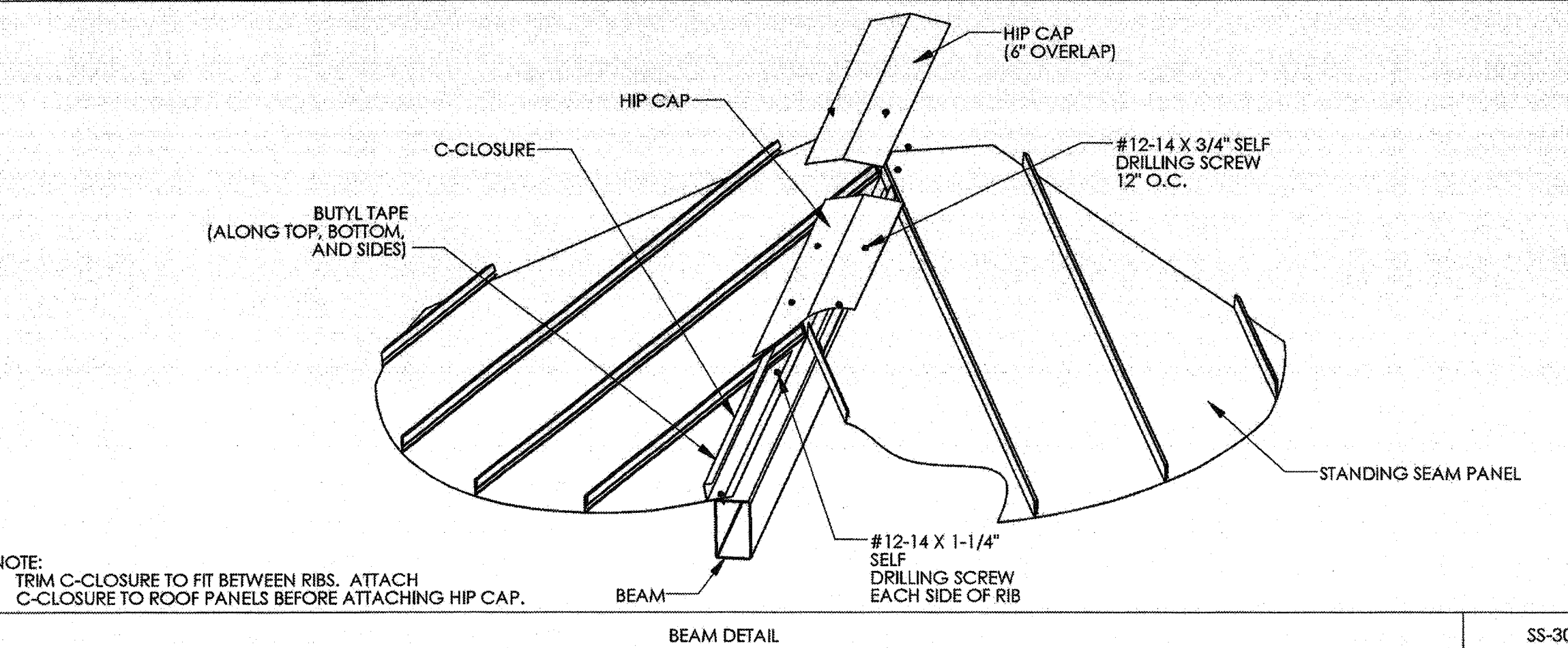
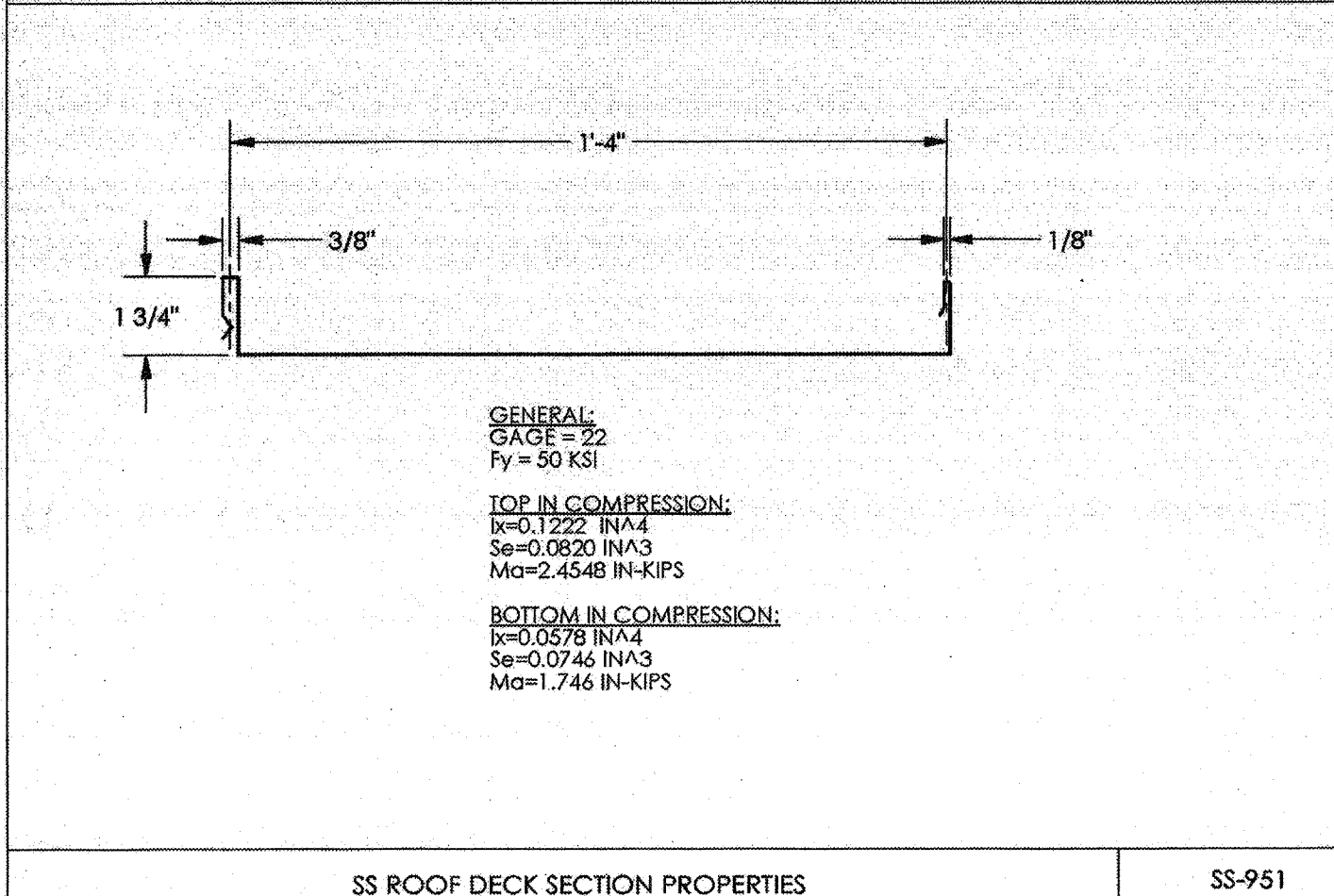
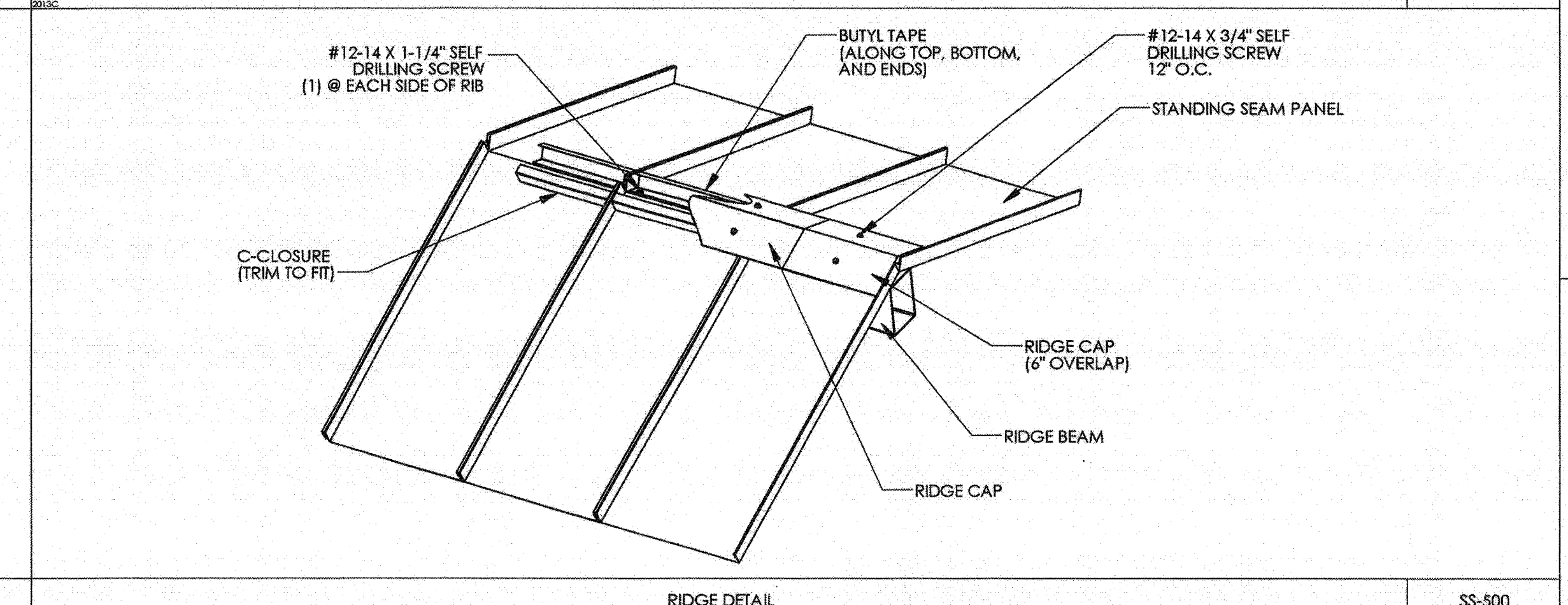
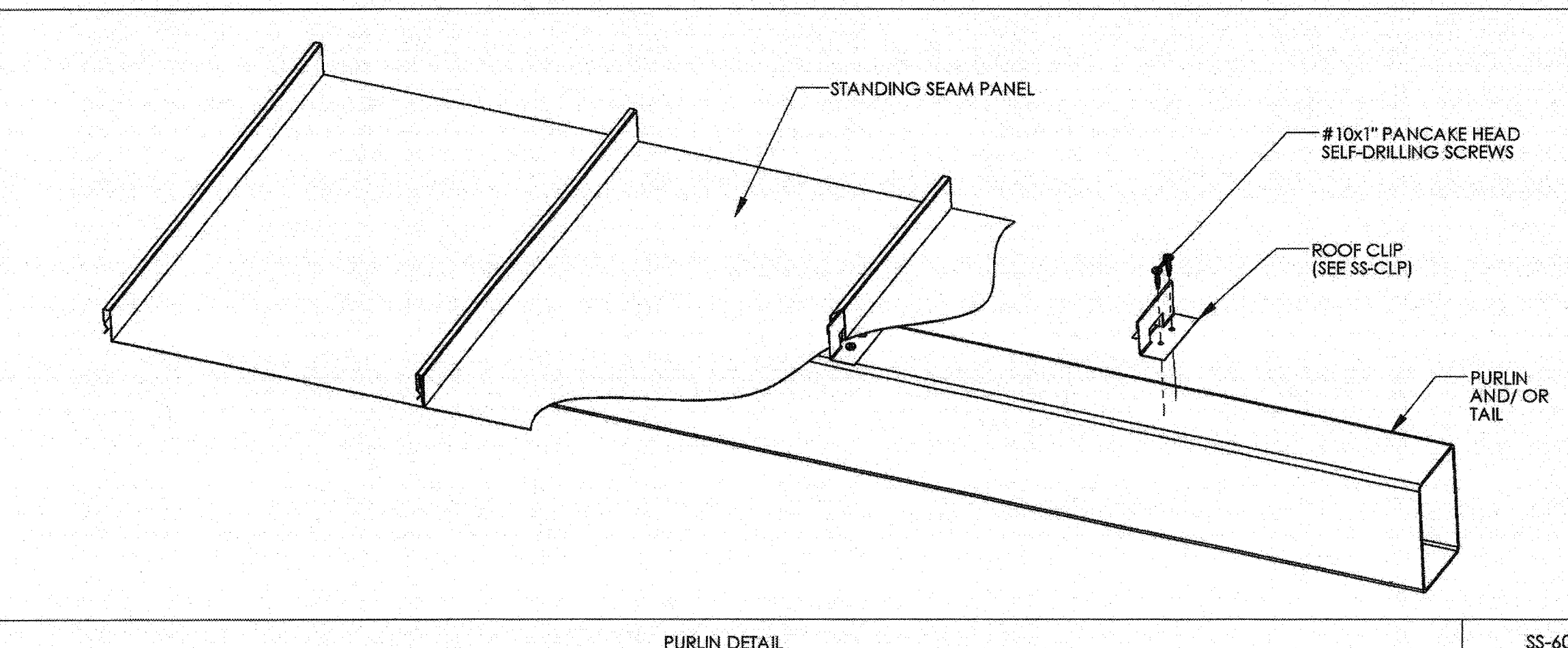
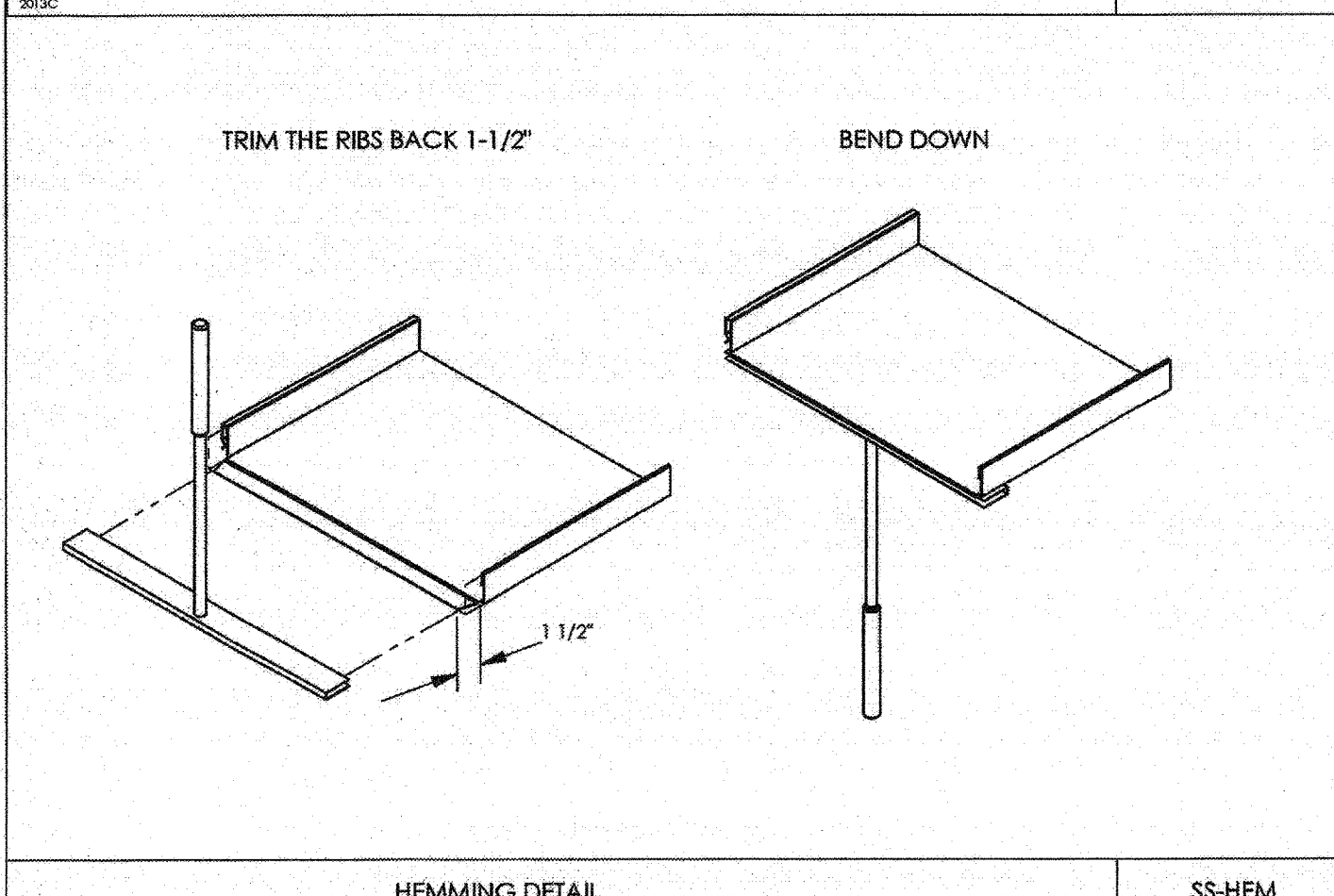
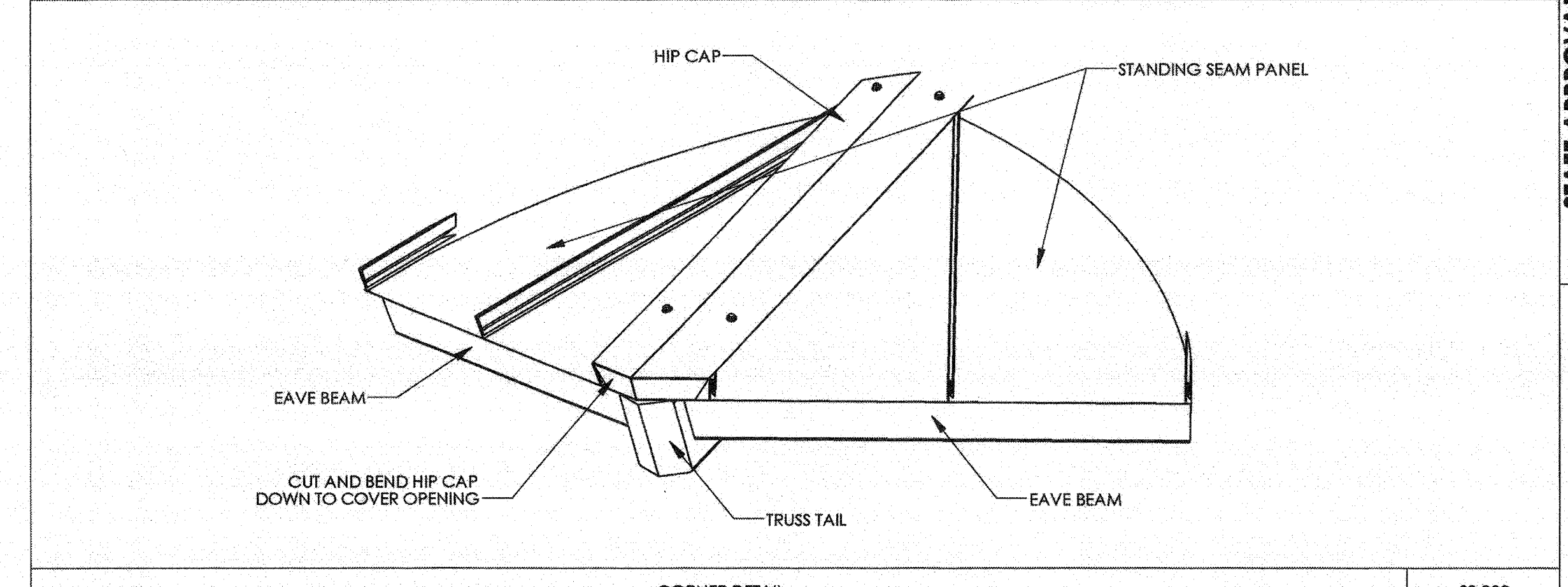
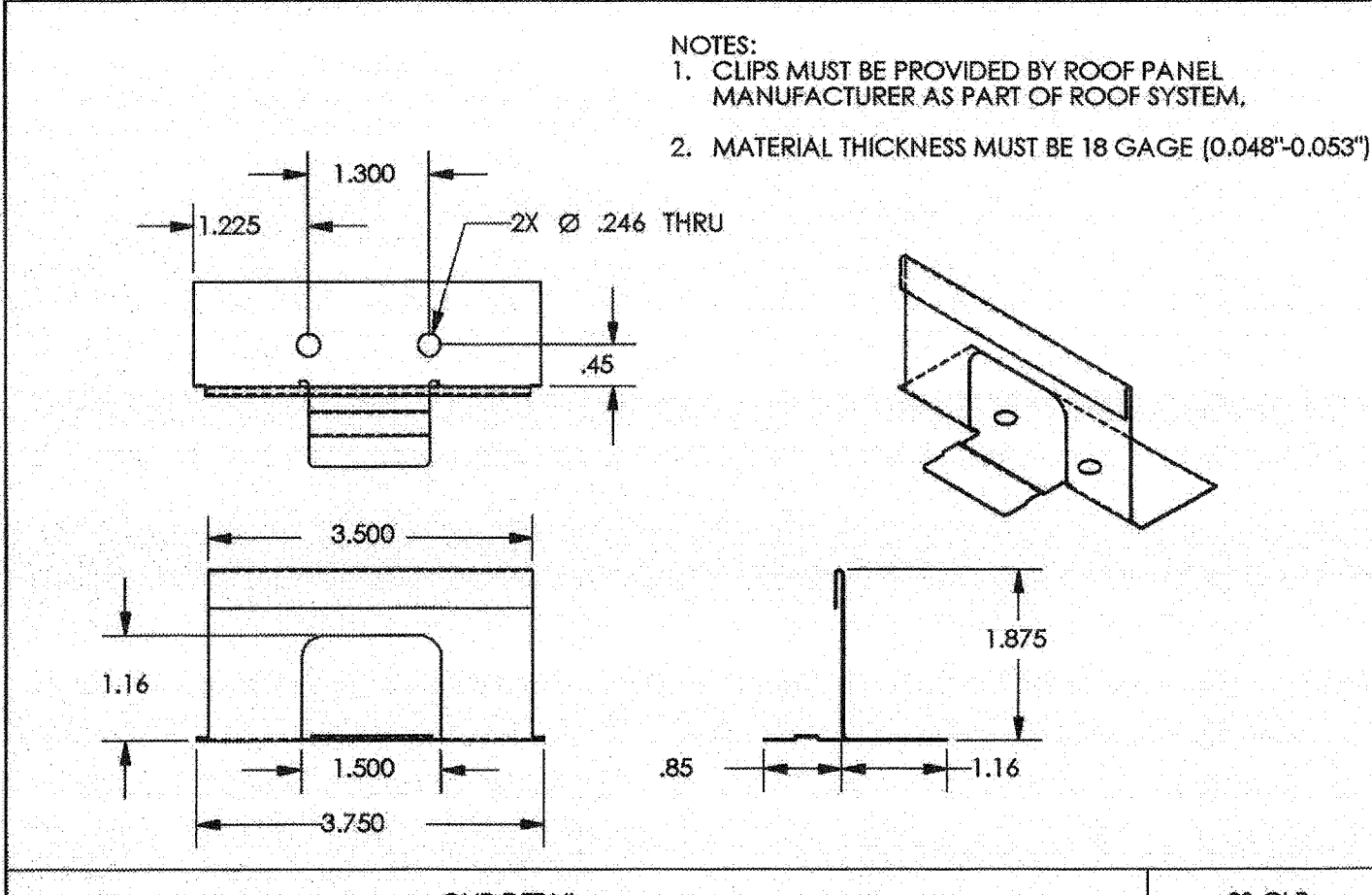
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ROOF LAYOUT NOTES (SS):

1. THE DETAILS SHOWN ARE SUGGESTIONS OR GUIDELINES ON HOW TO ERECT THE SYSTEMS. THE INFORMATION SHOWN IS ACCURATE, BUT IT IS NOT INTENDED TO COVER ALL INSTANCES, BUILDING REQUIREMENTS, DESIGNS OR CODES. THE DETAILS MAY REQUIRE CHANGES OR REVISIONS DUE TO FIELD CONDITIONS.
2. IT SHALL BE THE RESPONSIBILITY OF THE ERECTOR TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.
3. THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH ALL ERECTION INSTRUCTIONS BEFORE STARTING WORK.
4. THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.
5. FLASHING AND TRIM SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ANY EXPOSED FASTENERS EQUALLY SPACED FOR THE BEST APPEARANCE.
6. 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.
7. WORKMANSHIP SHALL BE OF THE BEST INDUSTRY STANDARDS AND INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN.
8. 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.

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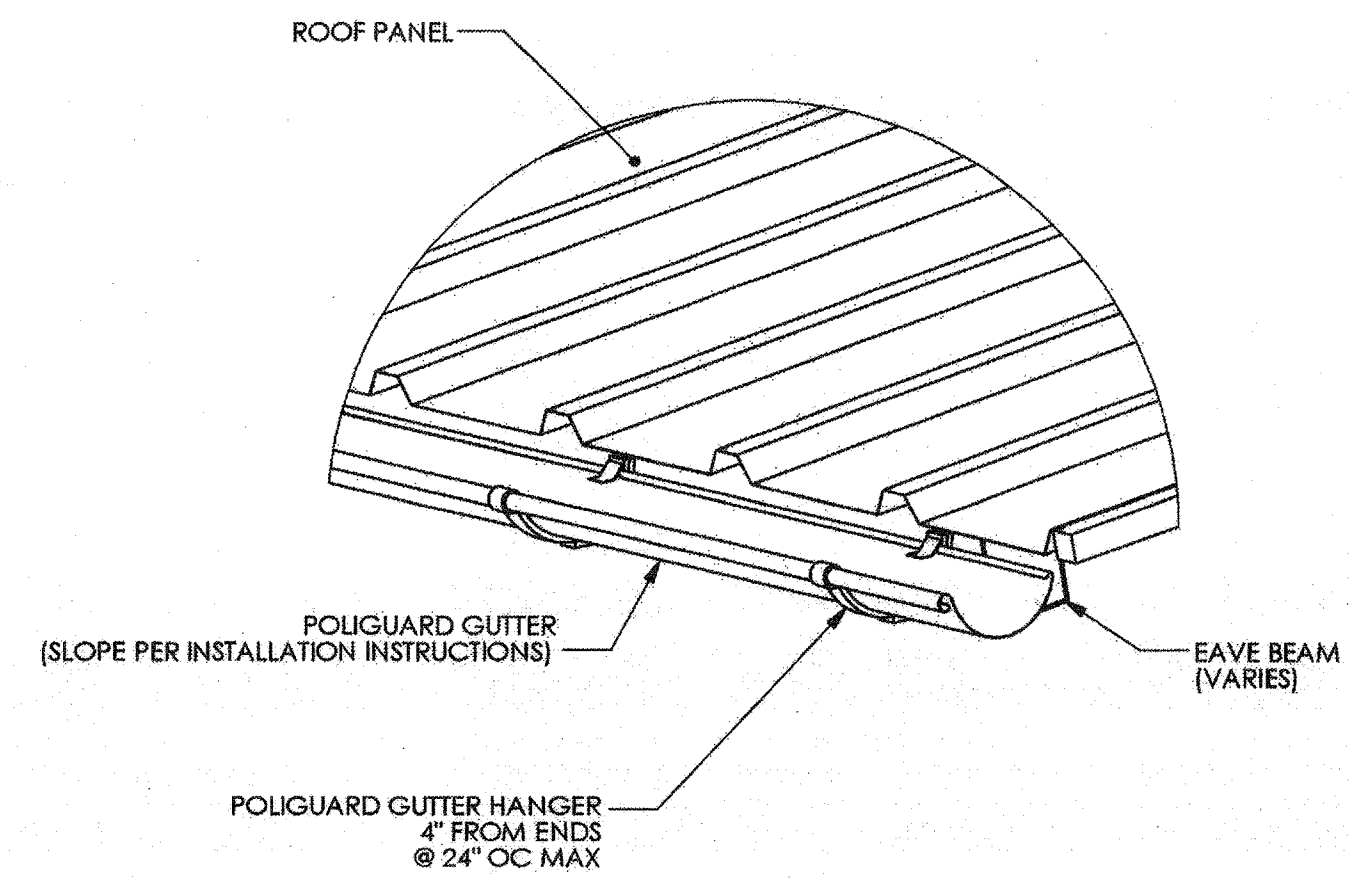


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ROOF CONNECTION DETAILS
SS ROOF DECK
HIP ROOF (RAM)
PC DRAWINGS

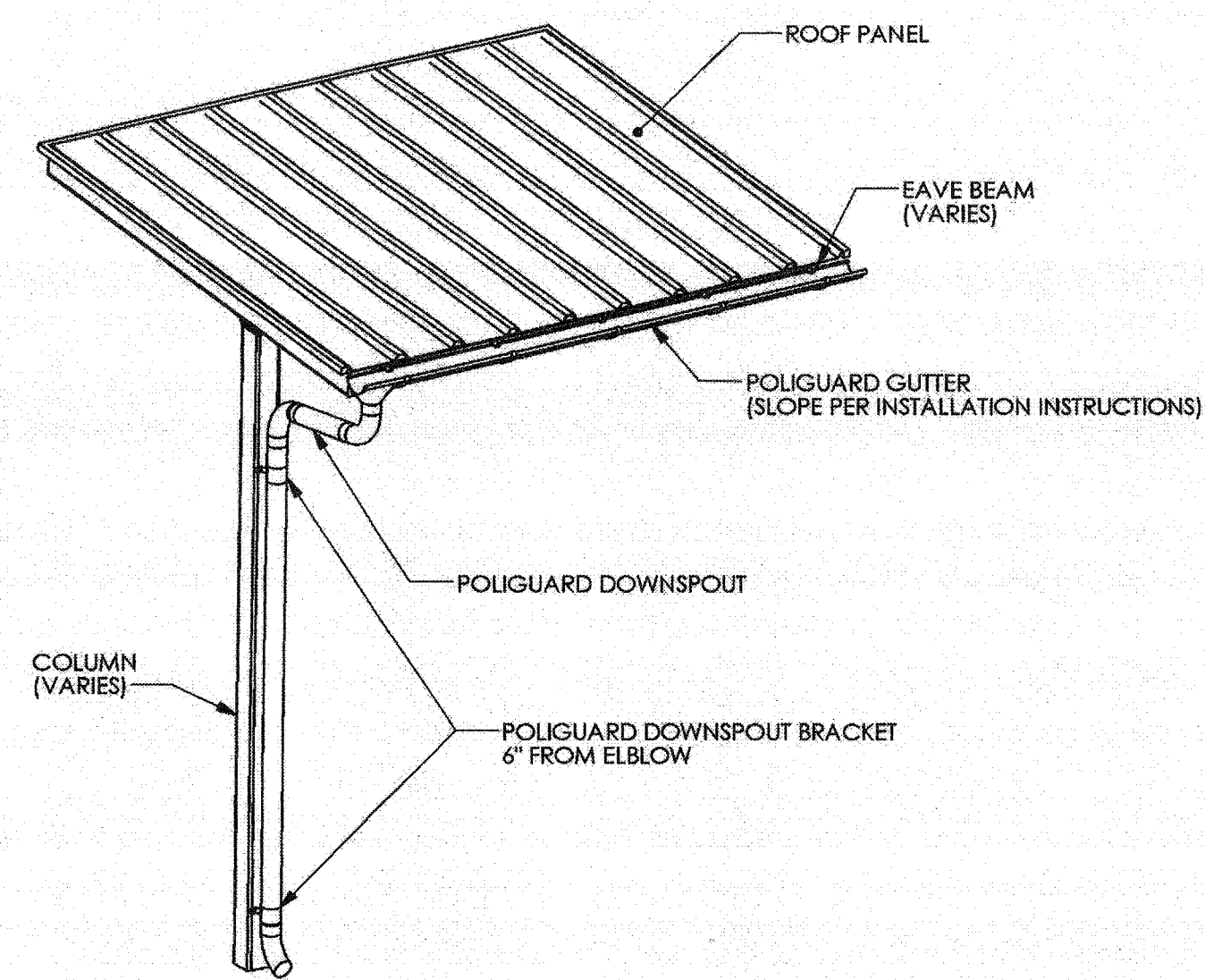
PD8.1
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CHECKED BY: CE
POLYGON #: 61468

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GUTTER DETAIL

GS-100

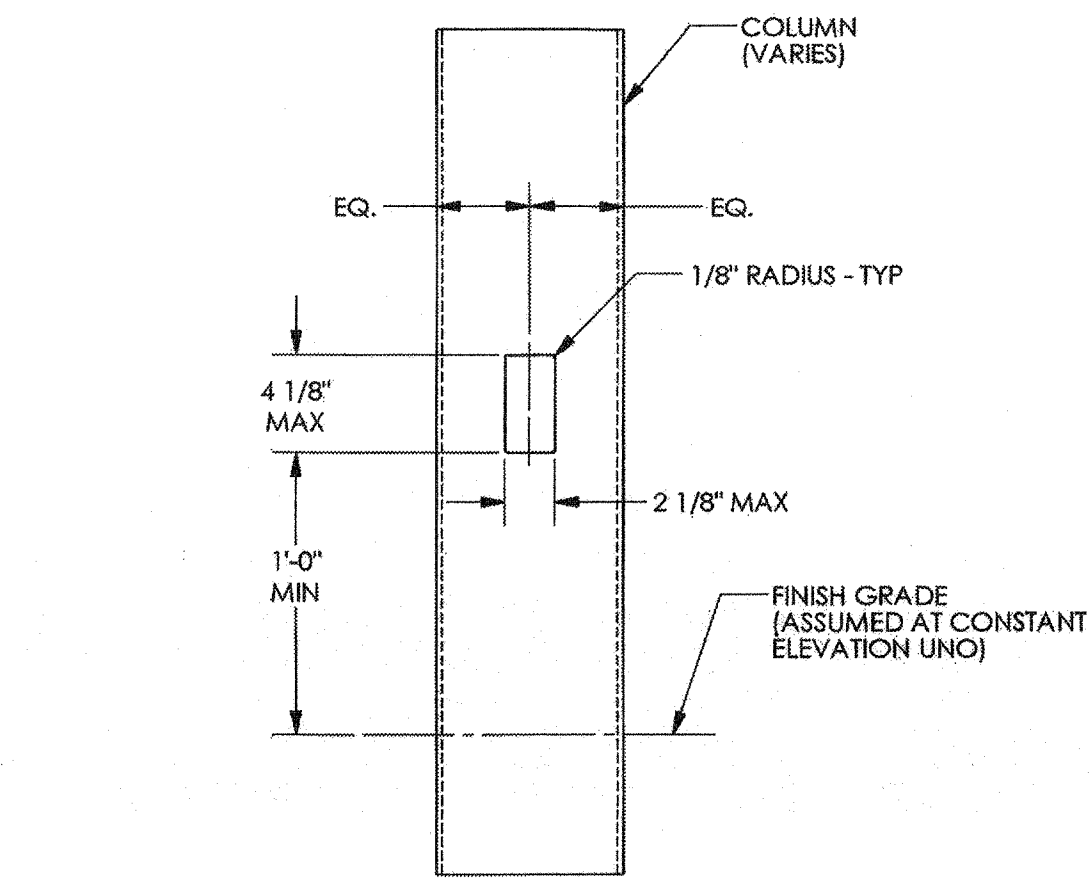


DOWNSPOUT DETAIL

GS-200

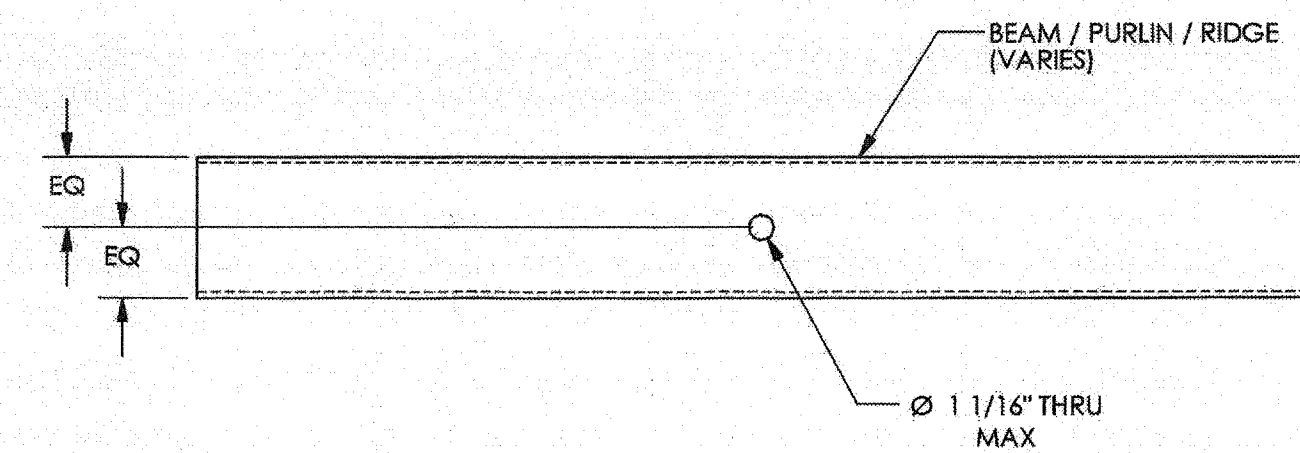
POLIGUARD GUTTER SYSTEM NOTES:

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



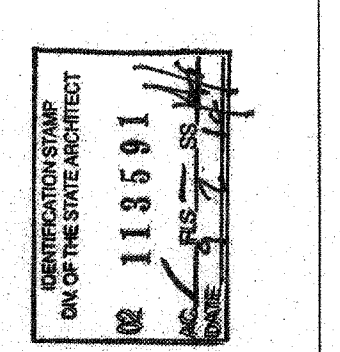
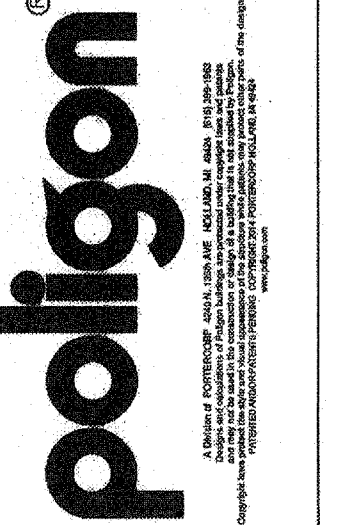
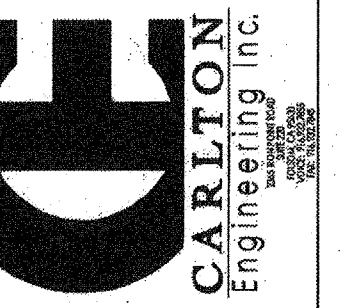
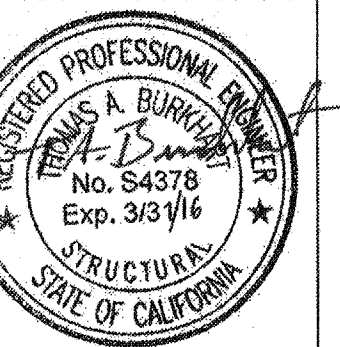
ELECTRICAL CUTOUT IN BEAMS / PURLINS / RIDGES

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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MISC DESIGN OPTIONS
HIP ROOF (RAM)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLYGON #: 51468

PD9.0